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检测  
TESTING  
CNAS L4595

## RADIO TEST REPORT

For

myFirst Tech Asia Pte. Ltd.

myFirst Fone M1

Test Model: KW1602

Prepared for : myFirst Tech Asia Pte. Ltd.  
Address : 31 Woodlands Close, #01-22 Woodlands Horizon  
Singapore 737855

Prepared by : Shenzhen LCS Compliance Testing Laboratory Ltd.  
Address : Room 101, 201, Building A and Room 301, Building C, Juji  
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Date of receipt of test sample : January 15, 2025  
Number of tested samples : 2  
Sample No. : A250114072-1, A250114072-2  
Serial number : Prototype  
Date of Test : January 15, 2025 ~ February 24, 2025  
Date of Report : February 25, 2025



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<b>RADIO TEST REPORT</b> <b>ETSI EN 301 511 V12.5.1 (2017-03)</b> Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
<b>Report Reference No. .... : LCSA12164390EE</b> Date of Issue..... : February 25, 2025	
<b>Testing Laboratory Name..... : Shenzhen LCS Compliance Testing Laboratory Ltd.</b> Address..... : Room 101, 201, Building A and Room 301, Building C, Juji Industrial Park, Yabianxueziwei, Shajing Street, Bao'an District, Shenzhen, Guangdong, China Testing Location/ Procedure.... : Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □	
<b>Applicant's Name..... : myFirst Tech Asia Pte. Ltd.</b> Address..... : 31 Woodlands Close, #01-22 Woodlands Horizon Singapore 737855	
<b>Test Specification</b> Standard..... : ETSI EN 301 511 V12.5.1 (2017-03) Test Report Form No..... : TRF-4-E-144 A/0 TRF Originator..... : Shenzhen LCS Compliance Testing Laboratory Ltd. Master TRF..... : Dated 2017-06	
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<b>Test Item Description..... : myFirst Fone M1</b> Trade Mark..... : myFirst Test Model..... : KW1602 Ratings ..... : Input: DC 5V, 1000mA DC 3.85V by Rechargeable Li-ion Battery, 730mAh <b>Result ..... : Positive</b>	

**Compiled by:**

Ling Zhu/ Administrator

**Supervised by:**

Jack Liu / Technique principal

**Approved by:**

Gavin Liang/ Manager



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## RADIO -- TEST REPORT

<b>Test Report No. :</b> LCSA12164390EE	<u>February 25, 2025</u> Date of issue
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Test Model.....	: KW1602
EUT.....	: myFirst Fone M1
<b>Applicant.....</b>	<b>: myFirst Tech Asia Pte. Ltd.</b>
Address.....	: 31 Woodlands Close, #01-22Woodlands Horizon Singapore 737855
Telephone.....	: /
Fax.....	: /
<b>Manufacturer.....</b>	<b>: myFirst Tech Asia Pte. Ltd.</b>
Address.....	: 31 Woodlands Close, #01-22Woodlands Horizon Singapore 737855
Telephone.....	: /
Fax.....	: /
<b>Factory.....</b>	<b>: myFirst Tech Asia Pte. Ltd.</b>
Address.....	: 31 Woodlands Close, #01-22Woodlands Horizon Singapore 737855
Telephone.....	: /
Fax.....	: /

<b>Test Result</b>	<b>Positive</b>
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The test report merely corresponds to the test sample.  
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.





Revision History

Report Version	Issue Date	Revision Content	Revised By
000	February 25, 2025	Initial Issue	---





## TABLE OF CONTENTS

<b>1. GENERAL INFORMATION</b>	<b>6</b>
1.1. PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	6
1.2. SUPPORT EQUIPMENT LIST	9
1.3. EXTERNAL I/O	9
1.4. OBJECTIVE	9
1.5. TEST CONDITIONS	9
1.6. DESCRIPTION OF TEST MODE	10
1.7. MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2)	10
1.8. DESCRIPTION OF TEST FACILITY	10
<b>2. SYSTEM TEST CONFIGURATION</b>	<b>11</b>
2.1. JUSTIFICATION	11
2.2. EUT EXERCISE SOFTWARE	11
2.3. SPECIAL ACCESSORIES	11
2.4. BLOCK DIAGRAM/SCHEMATICS	11
2.5. EQUIPMENT MODIFICATIONS	11
2.6. TEST SETUP	11
<b>3. SUMMARY OF TEST RESULTS</b>	<b>12</b>
<b>4. LIST OF MEASURING EQUIPMENT</b>	<b>16</b>
<b>5. PHOTOGRAPHS OF TEST SETUP</b>	<b>17</b>
<b>6. PHOTOGRAPHS OF THE EUT</b>	<b>17</b>



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## 1. GENERAL INFORMATION

### 1.1. Product Description for Equipment Under Test (EUT)

EUT	: myFirst Fone M1
Test Model	: KW1602
Ratings	: Input: DC 5V, 1000mA DC 3.85V by Rechargeable Li-ion Battery, 730mAh
Hardware Version	: /
Software Version	: /
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 79 channels for Bluetooth V2.0 (BDR/EDR)
Channel Spacing	: 1MHz for Bluetooth V2.0 (BDR/EDR)
Modulation Type	: GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth V2.0 (BDR/EDR)
Bluetooth Version	: V2.0
Antenna Description	: Internal Antenna, 0.33dBi(Max.)
WIFI(2.4G Band)	:
Frequency Range	: 2412MHz~2472MHz
Channel Spacing	: 5MHz
Channel Number	: 13 Channel for 20MHz bandwidth(2412~2472MHz)
Modulation Type	: 802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: Internal Antenna, 0.33dBi(Max.)
2G	:
Support Band	: <input checked="" type="checkbox"/> GSM 900 (EU-Band) <input checked="" type="checkbox"/> DCS 1800 (EU-Band) <input checked="" type="checkbox"/> GSM 850 (U.S.-Band) <input checked="" type="checkbox"/> PCS 1900 (U.S.-Band)
Release Version	: R99
GPRS Class	: Class 12
Uplink	: GSM 900: 880MHz~915MHz DCS 1800: 1710MHz~1785MHz
Downlink	: GSM 900: 925MHz~960MHz DCS 1800: 1805MHz~1880MHz
Type Of Modulation	: GMSK for GSM/GPRS
Antenna Description	: Internal Antenna -3.28dBi (max.) For GSM 900 0.37dBi (max.) For DCS 1800
Power Class	: GSM 900: Level 5, DCS 1800: Level 0



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## 3G

:

## Support Band

- : ☒ WCDMA Band I (EU-Band)  
: ☒ WCDMA Band VIII (EU-Band)

## Release Version

: Release9

## Uplink

: WCDMA Band I: 1920MHz~1980MHz  
WCDMA Band VIII: 880MHz~915MHz

## Downlink

: WCDMA Band I: 2110MHz~2170MHz  
WCDMA Band VIII: 925MHz~960MHz

## Type Of Modulation

: QPSK/16QAM

## Antenna Description

: Internal Antenna  
0.35dBi (max.) For WCDMA Band I  
-3.28dBi (max.) For WCDMA Band VIII

## Power Class

: Level 3

## LTE

:

## Support Band

- : ☒ E-UTRA Band 1(EU-Band)  
: ☒ E-UTRA Band 3(EU-Band)  
: ☒ E-UTRA Band 7(EU-Band)  
: ☒ E-UTRA Band 8(EU-Band)  
: ☒ E-UTRA Band 20(EU-Band)  
: ☒ E-UTRA Band 28(EU-Band)  
: ☒ E-UTRA Band 38(EU-Band)  
: ☒ E-UTRA Band 40(EU-Band)

## LTE Release Version

: Release12

## FDD Band

: Uplink: E-UTRA Band 1: 1920MHz~1980MHz  
E-UTRA Band 3: 1710MHz~1785MHz  
E-UTRA Band 7: 2500MHz~2570MHz  
E-UTRA Band 8: 880MHz~915MHz  
E-UTRA Band 20: 832MHz~862MHz  
E-UTRA Band 28: 703MHz~748MHz  
Downlink: E-UTRA Band 1: 2110MHz~2170MHz  
E-UTRA Band 3: 1805MHz~1880MHz  
E-UTRA Band 7: 2620MHz~2690MHz  
E-UTRA Band 8: 925MHz~960MHz  
E-UTRA Band 20: 791MHz~821MHz  
E-UTRA Band 28: 758MHz~803MHz

## TDD Band

: E-UTRA Band 38: 2570MHz~2620MHz  
E-UTRA Band 40: 2300MHz~2400MHz

## Type Of Modulation

: QPSK/16QAM

## Antenna Description

: Internal Antenna  
0.35dBi (max.) For E-UTRA Band 1  
0.37dBi (max.) For E-UTRA Band 3  
0.33dBi (max.) For E-UTRA Band 7



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-3.28dBi (max.) For E-UTRA Band 8  
-4.31dBi (max.) For E-UTRA Band 20  
-5.33dBi (max.) For E-UTRA Band 28  
0.34dBi (max.) For E-UTRA Band 38  
0.36dBi (max.) For E-UTRA Band 40

Power Class : Class 3

GPS Receiver :

Receive Frequency : 1575.42MHz

Channel Number : 1

Antenna Description : Internal Antenna, 0.43dBi(Max.)



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## 1.2. Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN TIANYIN ELECTRONICS CO., LTD	Power Adapter	TPA-46050200UU	---	CE

Note: The adapter is supplied by lab and only use tested.

## 1.3. External I/O

I/O Port Description	Quantity	Cable
Power Port	1	USB Cable: 0.8m, unshielded

## 1.4. Objective

Standard Referenced	Standard Title	Standard Version
ETSI EN 301 511	Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	V12.5.1 (2017-03)
ETSI TS 151 010-1	Digital cellular telecommunications system (Phase 2+); Mobile Station (MS) conformance specification; Part 1: Conformance specification (3GPP TS 51.010-1 version 12.8.0 Release 12)	V12.8.0 (2016-05)

The objective is to determine compliance with ETSI EN 301 511 V12.5.1 (2017-03).

## 1.5. Test Conditions

Conditions	Temperature	Voltage
Normal	21-25°C	DC 3.85V
Low extreme Temperature/Low extreme Voltage (TL/VL);	-20°C	DC 3.47V
Low extreme Temperature/High extreme Voltage (TL/VH);	-20°C	DC 4.4V
High extreme Temperature/Low extreme Voltage (TH/VL);	+45°C	DC 3.47V
High extreme Temperature/High extreme Voltage (TH/VH).	+45°C	DC 4.4V

Note1: For all conditions, the humidity range is:40-75%, the pressure range is 86-106kPa. The High Voltage DC 4.4V and Low Voltage DC 3.47V was declared by manufacturer



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## 1.6. Description Of Test Mode

During all testing, EUT is in link mode with base station emulator at maximum power level in each test mode and channel as below:

Mode	Channel	Frequency(MHz)
GSM 900	975	880.2
	63	902.6
	124	914.8

Mode	Channel	Frequency(MHz)
DCS 1800	512	1710.2
	698	1747.4
	885	1784.8

Operating modes of EUT during test	
Traffic Mode	A communication link is set up with a System Simulator (ss). The Absolute Radio Frequency Channel Number is allocated to the lowest, middle and highest channel during the test for all working frequency bands. The EUT is commanded to operate at maximum transmitting power. A call has been established.
Idle Mode	The EUT is synchronized to SS, and able to respond to paging messages and incoming call. An established call has been released.

## 1.7. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Radio Frequency	$0.9 \times 10^{-4}$
Total RF Power, Conducted	1.0 dB
RF Power Density, Conducted	1.8 dB
Spurious Emissions, Conducted	1.8 dB
All Emissions, Radiated	3.1 dB
Temperature	0.5°C
Humidity	1 %
DC And Low Frequency Voltages	1 %

## 1.8. Description of Test Facility

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.



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## 2. SYSTEM TEST CONFIGURATION

### 2.1. Justification

N/A

### 2.2. EUT Exercise Software

N/A

### 2.3. Special Accessories

The special accessories were supplied by Shenzhen LCS Compliance Testing Laboratory Ltd.

### 2.4. Block Diagram/Schematics

Please refer to the related document.

### 2.5. Equipment Modifications

Shenzhen LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

### 2.6. Test Setup

Please refer to the test setup photo.



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### 3. SUMMARY OF TEST RESULTS

Test Engineer	:	Paddi Chen
Temperature/ Humidity:	:	22.6°C/ 51.7%

Reference Clause No. (ETSI TS 151 010-1)	Reference Clause No. (ETSI EN 301 511)	Description of Test Items	GSM 900	DCS 1800
			Result	Result
13.1	4.2.1	Transmitter - Frequency error and phase error		
		Normal	Pass	Pass
		TL/VL	Pass	Pass
		TL/VH	Pass	Pass
		TH/VL	Pass	Pass
		TH/VH	Pass	Pass
		Vibration X-axis	Pass	Pass
		Vibration Y-axis	Pass	Pass
		Vibration Z-axis	Pass	Pass
13.2	4.2.2	Transmitter - Frequency error under multipath and interference conditions		
		Normal	Pass	Pass
		TL/VL	Pass	Pass
		TL/VH	Pass	Pass
		TH/VL	Pass	Pass
		TH/VH	Pass	Pass
13.16.1	4.2.4	Frequency error and phase error in GPRS multislot configuration		
		Normal	Pass	Pass
		TL/VL	Pass	Pass
		TL/VH	Pass	Pass
		TH/VL	Pass	Pass
		TH/VH	Pass	Pass
		Vibration X-axis	Pass	Pass
		Vibration Y-axis	Pass	Pass
		Vibration Z-axis	Pass	Pass
13.3	4.2.5	Transmitter output power and burst timing		
		Normal	Pass	Pass
		TL/VL	Pass	Pass
		TL/VH	Pass	Pass
		TH/VL	Pass	Pass
		TH/VH	Pass	Pass
13.4	4.2.6	Transmitter - Output RF spectrum		
		Normal	Pass	Pass
		TL/VL	Pass	Pass
		TL/VH	Pass	Pass



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		TH/VL	Pass	Pass
		TH/VH	Pass	Pass
13.16.2	4.2.10	Transmitter output power in GPRS multislots configuration		
		Normal	Pass	Pass
		TL/VL	Pass	Pass
		TL/VH	Pass	Pass
		TH/VL	Pass	Pass
		TH/VH	Pass	Pass
13.16.3	4.2.11	Output RF spectrum in GPRS multislots configuration		
		Normal	Pass	Pass
		TL/VL	Pass	Pass
		TL/VH	Pass	Pass
		TH/VL	Pass	Pass
		TH/VH	Pass	Pass
12.1.1	4.2.12	Conducted spurious emissions - MS allocated a channel		
		Normal	Pass	Pass
		TN/VL	Pass	Pass
		TN/VH	Pass	Pass
12.1.2	4.2.13	Conducted spurious emissions - MS in idle mode		
		Normal	Pass	Pass
		TN/VL	Pass	Pass
		TN/VH	Pass	Pass
12.2.1	4.2.16	Radiated spurious emissions - MS allocated a channel		
		Normal	Pass	Pass
		TN/VL	Pass	Pass
		TN/VH	Pass	Pass
12.2.2	4.2.17	Radiated spurious emissions - MS in idle mode		
		Normal	Pass	Pass
		TN/VL	Pass	Pass
		TN/VH	Pass	Pass
14.7.1	4.2.20	Receiver Blocking and spurious response - speech channels		
		Normal	Pass	Pass
13.17.1	4.2.26	Frequency error and Modulation accuracy in EGPRS Configuration		
		Normal	N/A	N/A
		TL/VL	N/A	N/A
		TL/VH	N/A	N/A
		TH/VL	N/A	N/A
		TH/VH	N/A	N/A
13.17.2	4.2.27	Frequency error under multipath and interference conditions in EGPRS Configuration		
		Normal	N/A	N/A
		TL/VL	N/A	N/A
		TL/VH	N/A	N/A



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		TH/VL	N/A	N/A
		TH/VH	N/A	N/A
13.17.3	4.2.28	EGPRS Transmitter output power		
		Normal	N/A	N/A
		TL/VL	N/A	N/A
		TL/VH	N/A	N/A
		TH/VL	N/A	N/A
		TH/VH	N/A	N/A
13.17.4	4.2.29	Output RF spectrum in EGPRS configuration		
		Normal	N/A	N/A
		TL/VL	N/A	N/A
		TL/VH	N/A	N/A
		TH/VL	N/A	N/A
		TH/VH	N/A	N/A
14.18.5	4.2.30	Blocking and spurious response in EGPRS configuration		
		Normal	N/A	N/A
14.6.1	4.2.32	Intermodulation rejection - speech channels		
		Normal	Pass	Pass
14.6.2	4.2.33	Intermodulation rejection - control channels		
		Normal	N/A	N/A
14.18.4	4.2.34	Intermodulation rejection - EGPRS		
		Normal	N/A	N/A
14.8.1	4.2.35	AM suppression - speech channels		
		Normal	Pass	Pass
14.8.1	4.2.36	AM suppression - control channels		
		Normal	N/A	N/A
14.8.3	4.2.37	AM suppression - packet channels		
		Normal	Pass	Pass
14.5.1.1	4.2.38	Adjacent channel rejection - speech channels (TCH/FS)		
		Normal	Pass	Pass
14.5.2	4.2.39	Adjacent channel rejection - control channels		
		Normal	N/A	N/A
14.18.3	4.2.40	Adjacent channel rejection - EGPRS		
		Normal	N/A	N/A
14.2.1	4.2.42	Reference sensitivity - TCH/FS		
		Normal	Pass	Pass
14.2.3	4.2.43	Reference sensitivity - FACCH/F		
		Normal	Pass	Pass
14.16.1	4.2.44	Minimum Input level for Reference Performance - GPRS		
		Normal	Pass	Pass



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		TL/VL	Pass	Pass
		TL/VH	Pass	Pass
		TH/VL	Pass	Pass
		TH/VH	Pass	Pass
14.18.1	4.2.45	Minimum Input level for Reference Performance - EGPRS		
		Normal	N/A	N/A
		TL/VL (for MCS 4 only)	N/A	N/A
		TL/VH (for MCS 4 only)	N/A	N/A
		H/VL (for MCS 4 only)	N/A	N/A
		TH/VH (for MCS 4 only)	N/A	N/A

\*\*\*Note:

**Result:** Describes test result of Test Case.

**Pass:** Test Case passed on specified conformance test platform.

**Normal(TN/VN):** Normal temperature – 25°C; Normal voltage. – DC 3.85V

**TH:** High extreme Temperature – +45°C

**VH:** High extreme Voltage – DC 4.4V

**TL:** Low extreme Temperature – -20°C

**VL:** Low extreme Voltage – DC 3.47V

**Vibration X-axis/ Y-axis/ Z-axis:** Vibration test condition for X/Y/Z axis.

**N/A:** Not applicable.

—: Not test.



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#### 4. LIST OF MEASURING EQUIPMENT

Item	Equipment	Manufacturer	Model No.	Serial No.	Cal Date	Due Date
1	LTE Test Software	Tonscend	JS1120-1	N/A	N/A	N/A
2	RF Control Unit	Tonscend	JS0806-1	158060009	2024-11-08	2025-11-07
3	MXA Signal Analyzer	Agilent	N9020A	MY51250905	2024-10-08	2025-10-07
4	DC Power Supply	Agilent	E3642A	N/A	2024-10-08	2025-10-07
5	MXG Vector Signal Generator	Agilent	N5182A	MY47071151	2024-06-06	2025-06-05
6	PSG Analog Signal Generator	Agilent	E8257D	MY4520521	2024-06-06	2025-06-05
7	Temperature & Humidity Chamber	Baro	/	/	2024-06-12	2025-06-11
8	EMI Test Software	Farad	EZ	/	N/A	N/A
9	3m Full Anechoic Chamber	MRDIANZI	FAC-3M	MR009	2022-08-17	2025-08-16
10	Positioning Controller	Max-Full	MF7802BS	MF780208586	N/A	N/A
11	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00005	2024-07-13	2027-07-12
12	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2024-08-03	2027-08-02
13	Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-1925	2024-07-13	2027-07-12
14	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	791	2024-07-13	2027-07-12
15	Broadband Preamplifier	SCHWARZBECK	BBV9719	9719-025	2024-07-30	2025-07-29
16	EMI Test Receiver	R&S	ESR 7	101181	2024-06-06	2025-06-05
17	RS SPECTRUM ANALYZER	R&S	FSP40	100503	2024-06-06	2025-06-05
18	Low-frequency amplifier	SchwarzZBECK	BBV9745	00253	2024-10-08	2025-10-07
19	High-frequency amplifier	JS Denki Pte	PA0118-43	JSPA21009	2024-10-08	2025-10-07
20	WIDEBAND RADIO COMMUNICATION TESTER	R&S	CMW 500	103818	2024-06-06	2025-06-05
21	RF Filter	Micro-Tronics	BRC50718	017	2024-10-08	2025-10-07
22	RF Filter	Micro-Tronics	BRC50719	011	2024-10-08	2025-10-07
23	RF Filter	Micro-Tronics	BRC50720	011	2024-10-08	2025-10-07
24	RF Filter	Micro-Tronics	BRC50721	013	2024-10-08	2025-10-07
25	RF Filter	Micro-Tronics	BRM50702	195	2024-06-06	2025-06-05
26	6dB Attenuator	/	100W/6dB	1172040	2024-06-06	2025-06-05
27	3dB Attenuator	/	2N-3dB	/	2024-10-08	2025-10-07



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## 5. PHOTOGRAPHS OF TEST SETUP

Please refer to separated files Appendix D for Photographs of Test Setup\_RF.

## 6. PHOTOGRAPHS OF THE EUT

Please refer to separated files Appendix C for Photographs of The EUT.





## Annex A

### Transmitter output power and burst timing(Worst Case)

Mode: GSM 900 , Low channel CH 975:880.2MHz						
Power Control level	Output power(dBm)					Conclusion
	Normal	TL/VL	TH/VL	TL/VH	TH/VH	
5	32.50	32.52	32.45	32.40	32.34	PASS
6	30.08	30.07	29.98	29.98	30.05	PASS
7	28.47	28.51	28.52	28.42	28.46	PASS
8	26.25	26.31	26.28	26.25	26.31	PASS
9	25.45	25.49	25.58	25.50	25.46	PASS
10	22.41	22.38	22.42	22.43	22.42	PASS
11	20.80	20.80	20.73	20.77	20.83	PASS
12	18.69	18.61	18.64	18.55	18.53	PASS
13	16.06	16.00	16.07	16.02	15.95	PASS
14	14.02	14.04	14.11	14.06	14.09	PASS
15	12.64	12.67	12.64	12.71	12.74	PASS
16	11.45	11.50	11.55	11.63	11.61	PASS
17	9.45	9.54	9.61	9.66	9.63	PASS
18	6.14	6.06	6.08	6.17	6.11	PASS
19	4.58	4.53	4.55	4.53	4.56	PASS



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Mode: GSM 900 , middle channel CH 63:902.6MHz

Power Control level	Output power(dBm)					Conclusion
	Normal	TL/VL	TH/VL	TL/VH	TH/VH	
5	32.47	32.43	32.40	32.32	32.33	PASS
6	30.01	29.98	30.06	30.16	30.12	PASS
7	28.59	28.67	28.65	28.65	28.75	PASS
8	26.21	26.18	26.19	26.14	26.24	PASS
9	25.44	25.44	25.41	25.38	25.39	PASS
10	22.40	22.36	22.40	22.32	22.31	PASS
11	20.81	20.74	20.83	20.92	21.01	PASS
12	18.68	18.62	18.56	18.64	18.60	PASS
13	16.06	16.13	16.14	16.19	16.28	PASS
14	13.93	13.93	13.90	13.88	13.95	PASS
15	12.77	12.80	12.80	12.80	12.85	PASS
16	11.38	11.39	11.31	11.26	11.19	PASS
17	9.43	9.41	9.35	9.33	9.36	PASS
18	6.17	6.13	6.17	6.23	6.26	PASS
19	4.55	4.65	4.62	4.56	4.49	PASS



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Mode: GSM 900 , High channel CH 124:914.8MHz

Power Control level	Output power(dBm)					Conclusion
	Normal	TL/VL	TH/VL	TL/VH	TH/VH	
5	32.50	32.52	32.52	32.54	32.50	PASS
6	29.98	29.94	29.93	29.92	29.99	PASS
7	28.52	28.51	28.55	28.60	28.52	PASS
8	26.20	26.27	26.32	26.35	26.41	PASS
9	25.40	25.46	25.51	25.52	25.49	PASS
10	22.47	22.53	22.45	22.38	22.41	PASS
11	20.88	20.90	20.84	20.82	20.83	PASS
12	18.67	18.65	18.75	18.83	18.93	PASS
13	16.03	16.01	15.98	15.94	15.86	PASS
14	14.05	14.11	14.09	14.06	14.10	PASS
15	12.65	12.58	12.60	12.54	12.51	PASS
16	11.54	11.51	11.45	11.42	11.36	PASS
17	9.32	9.30	9.29	9.37	9.39	PASS
18	6.28	6.31	6.31	6.40	6.45	PASS
19	4.58	4.54	4.57	4.67	4.76	PASS



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Mode: DCS1800, Low channel CH 512:1710.2MHz

Power Control level	Output power(dBm)					Conclusion
	Normal	TL/VL	TH/VL	TL/VH	TH/VH	
0	29.51	29.60	29.67	29.70	29.61	PASS
1	28.32	28.24	28.19	28.14	28.21	PASS
2	26.32	26.41	26.34	26.35	26.43	PASS
3	23.65	23.59	23.51	23.54	23.57	PASS
4	20.96	21.00	21.06	21.10	21.18	PASS
5	20.59	20.60	20.55	20.60	20.60	PASS
6	18.80	18.89	18.99	19.06	19.12	PASS
7	16.44	16.40	16.47	16.45	16.53	PASS
8	14.50	14.43	14.52	14.59	14.53	PASS
9	11.93	11.84	11.91	11.88	11.95	PASS
10	9.37	9.34	9.29	9.27	9.30	PASS
11	7.41	7.43	7.35	7.26	7.17	PASS
12	5.67	5.74	5.76	5.76	5.69	PASS
13	4.10	4.02	4.01	3.98	4.06	PASS
14	3.07	2.98	3.01	2.98	2.89	PASS
15	0.62	0.53	0.53	0.57	0.63	PASS



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Mode: DCS1800, middle channel CH 698:1747.4MHz

Power Control level	Output power(dBm)					Conclusion
	Normal	TL/VL	TH/VL	TL/VH	TH/VH	
0	29.65	29.71	29.68	29.75	29.81	PASS
1	28.20	28.20	28.23	28.21	28.24	PASS
2	26.31	26.21	26.27	26.35	26.25	PASS
3	23.72	23.70	23.72	23.73	23.76	PASS
4	20.98	21.04	21.06	21.11	21.14	PASS
5	20.47	20.42	20.42	20.46	20.42	PASS
6	18.72	18.69	18.75	18.79	18.73	PASS
7	16.32	16.23	16.16	16.14	16.09	PASS
8	14.44	14.47	14.42	14.41	14.39	PASS
9	11.90	11.97	12.01	11.95	11.92	PASS
10	9.42	9.52	9.60	9.58	9.54	PASS
11	7.31	7.41	7.51	7.55	7.53	PASS
12	5.82	5.75	5.77	5.84	5.92	PASS
13	4.05	3.98	3.95	3.99	4.06	PASS
14	3.04	3.11	3.03	3.05	3.14	PASS
15	0.59	0.66	0.74	0.81	0.91	PASS



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Mode: DCS1800, high channel CH 885:1784.8MHz

Power Control level	Output power(dBm)					Conclusion
	Normal	TL/VL	TH/VL	TL/VH	TH/VH	
0	29.68	29.73	29.70	29.68	29.77	PASS
1	28.27	28.34	28.34	28.29	28.37	PASS
2	26.39	26.43	26.39	26.34	26.30	PASS
3	23.67	23.68	23.61	23.56	23.49	PASS
4	21.01	21.03	21.06	20.99	21.04	PASS
5	20.53	20.59	20.56	20.62	20.63	PASS
6	18.78	18.70	18.62	18.53	18.49	PASS
7	16.40	16.31	16.27	16.18	16.23	PASS
8	14.50	14.60	14.64	14.70	14.63	PASS
9	11.90	11.87	11.81	11.85	11.86	PASS
10	9.40	9.45	9.43	9.34	9.33	PASS
11	7.30	7.40	7.39	7.44	7.40	PASS
12	5.78	5.79	5.81	5.91	5.91	PASS
13	4.09	4.08	4.17	4.08	4.03	PASS
14	2.99	3.02	3.00	3.01	2.98	PASS
15	0.55	0.62	0.58	0.53	0.48	PASS



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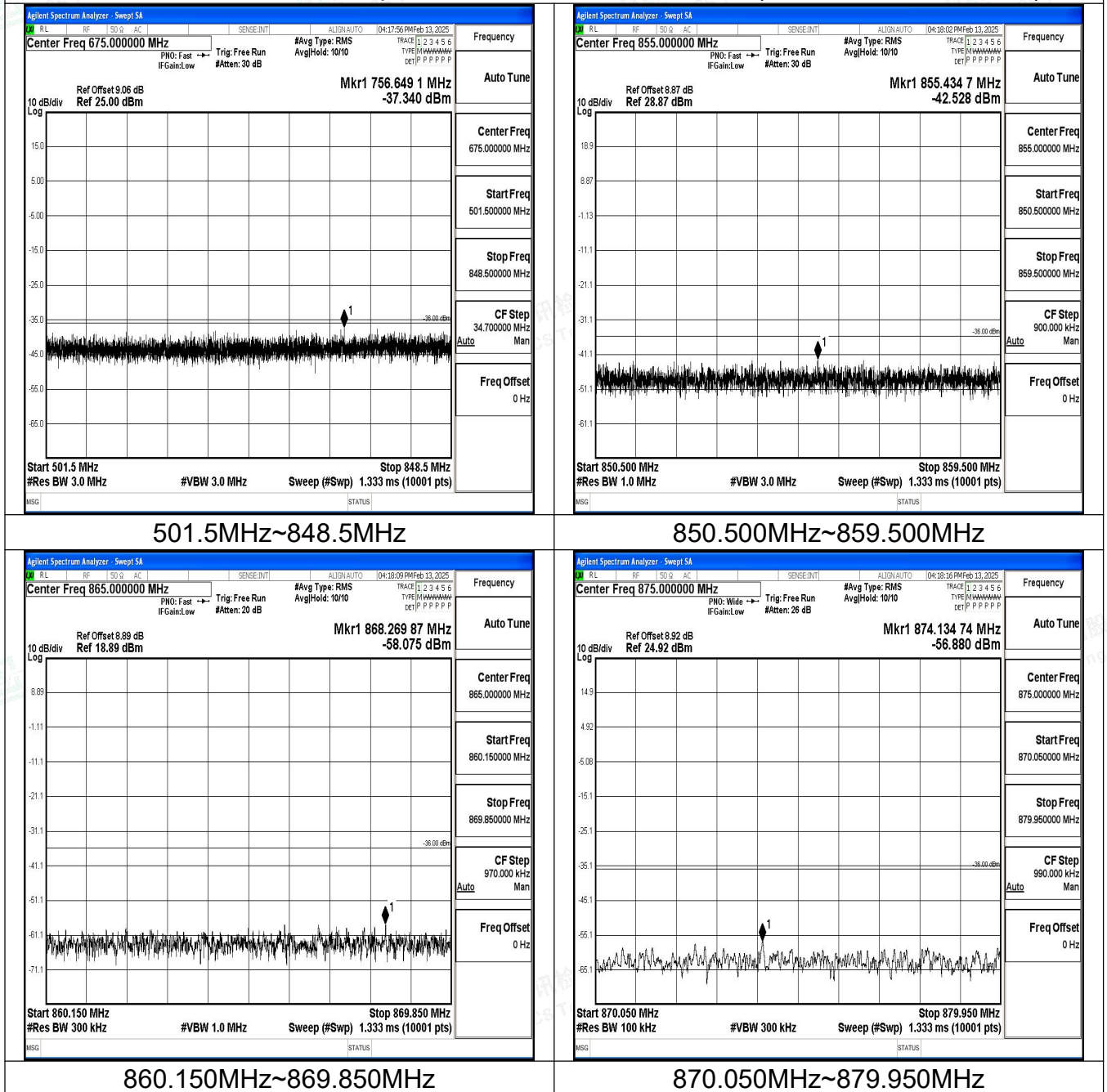
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## Transmitter spurious emissions

### Conducted spurious emissions - MS allocated a channel(Worst Case)

#### The Worst Test Result of Spurious Emissions for GSM 900 (Middle Channel, Traffic)

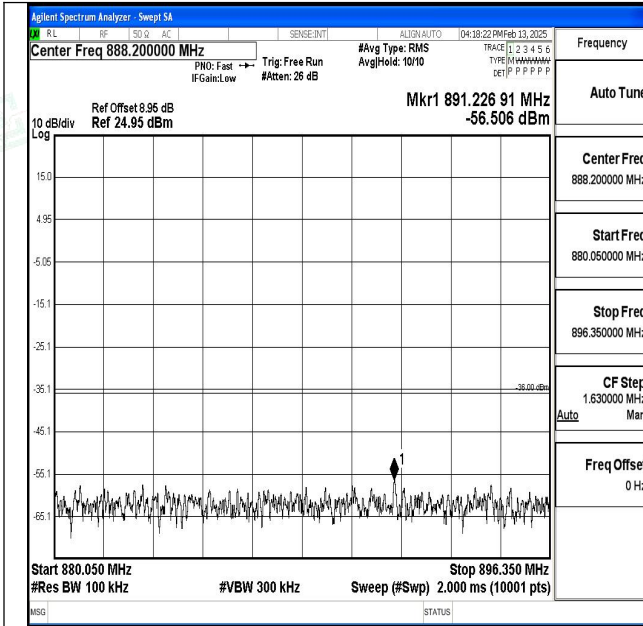


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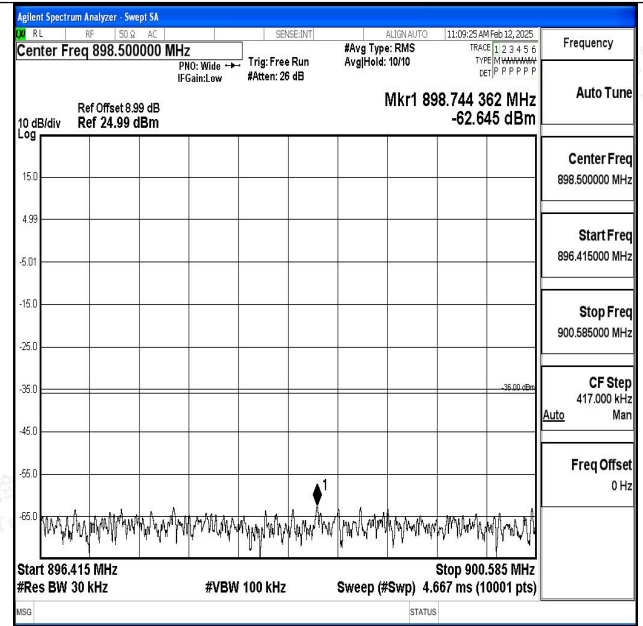
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880.050MHz~896.350MHz



896.415MHz~900.585MHz



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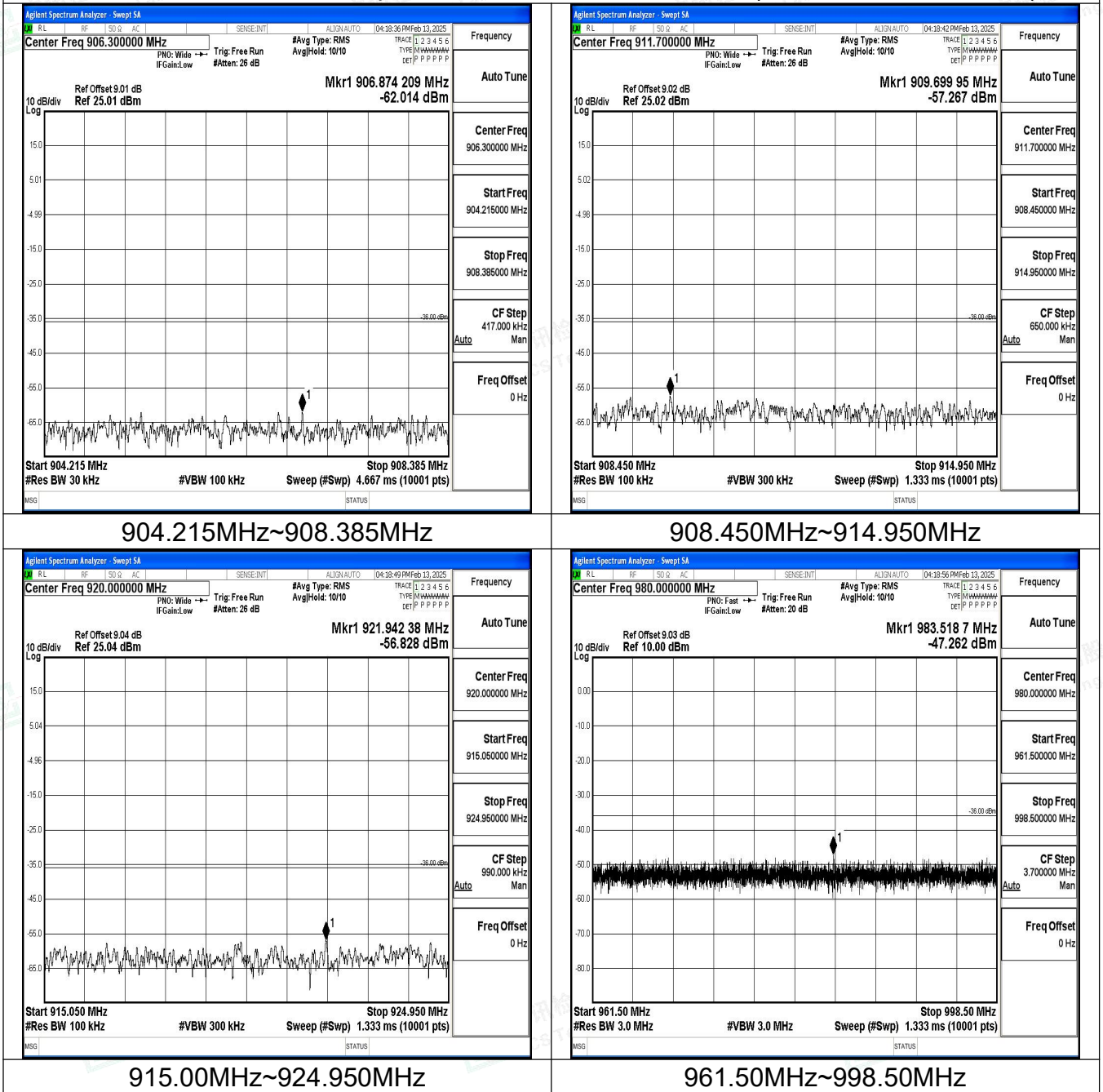
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## The Worst Test Result of Spurious Emissions for GSM 900 (Middle Channel, Traffic)



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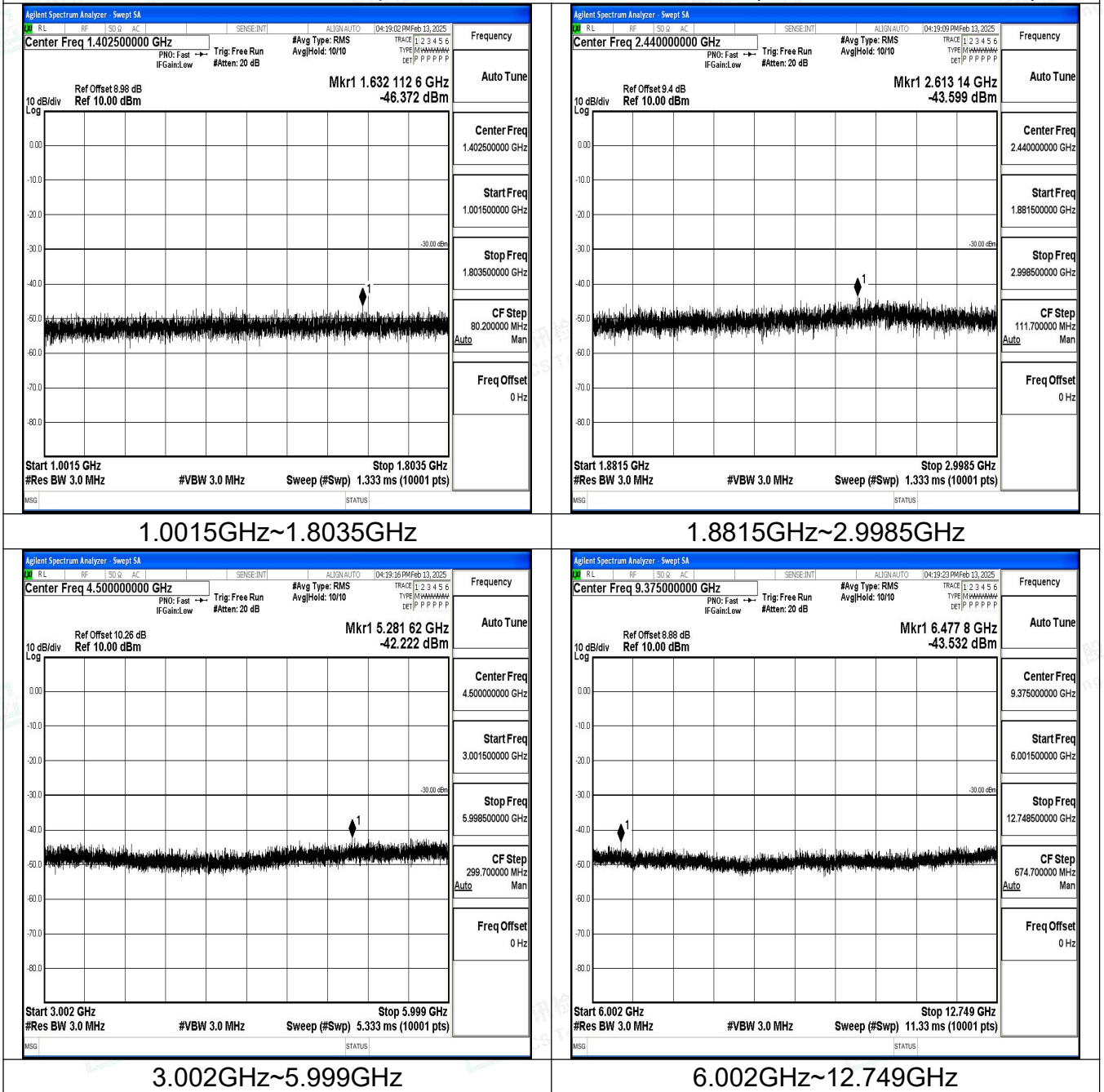
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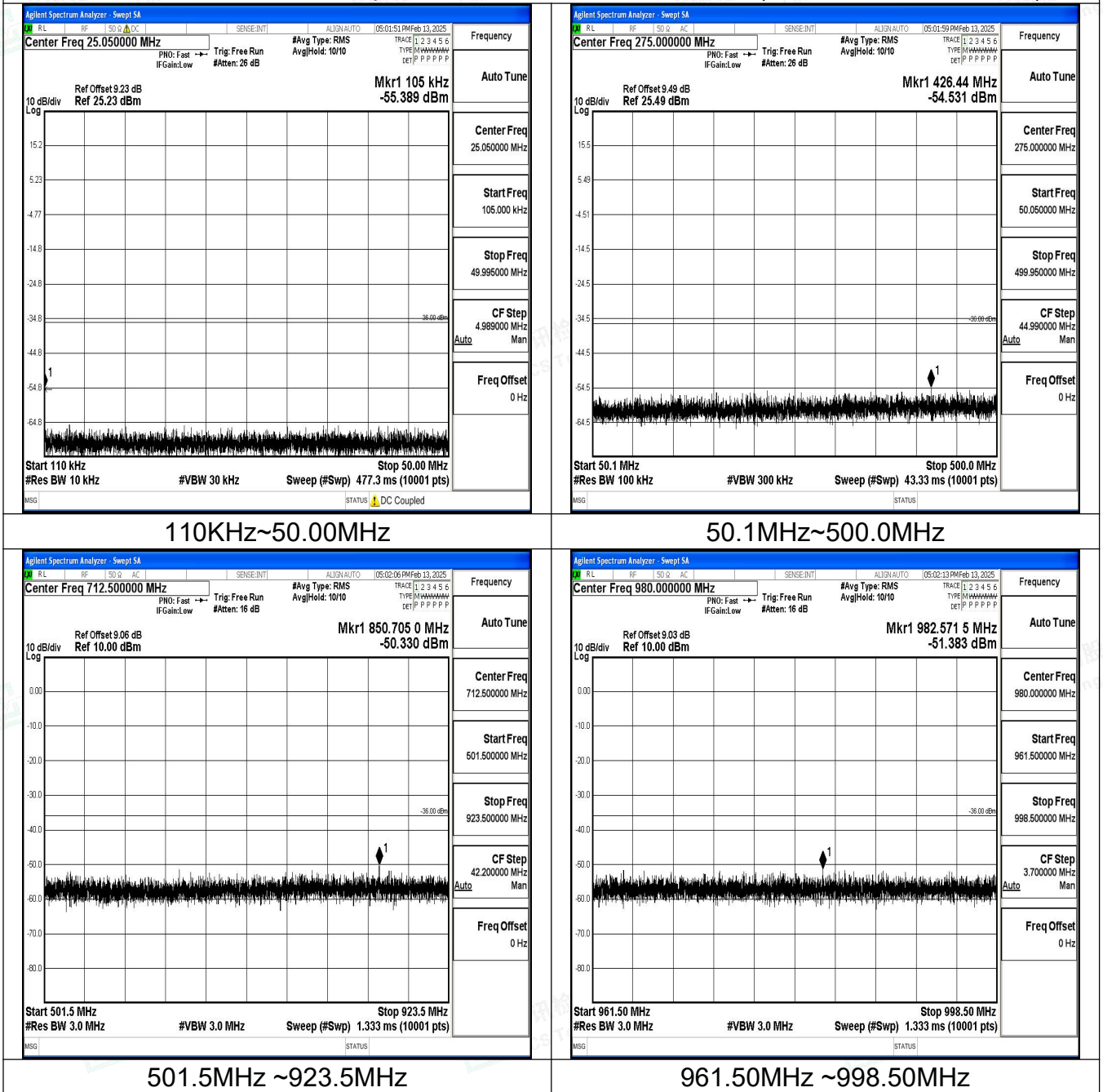
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## The Worst Test Result of Spurious Emissions for DCS 1800 (Middle Channel, Traffic)

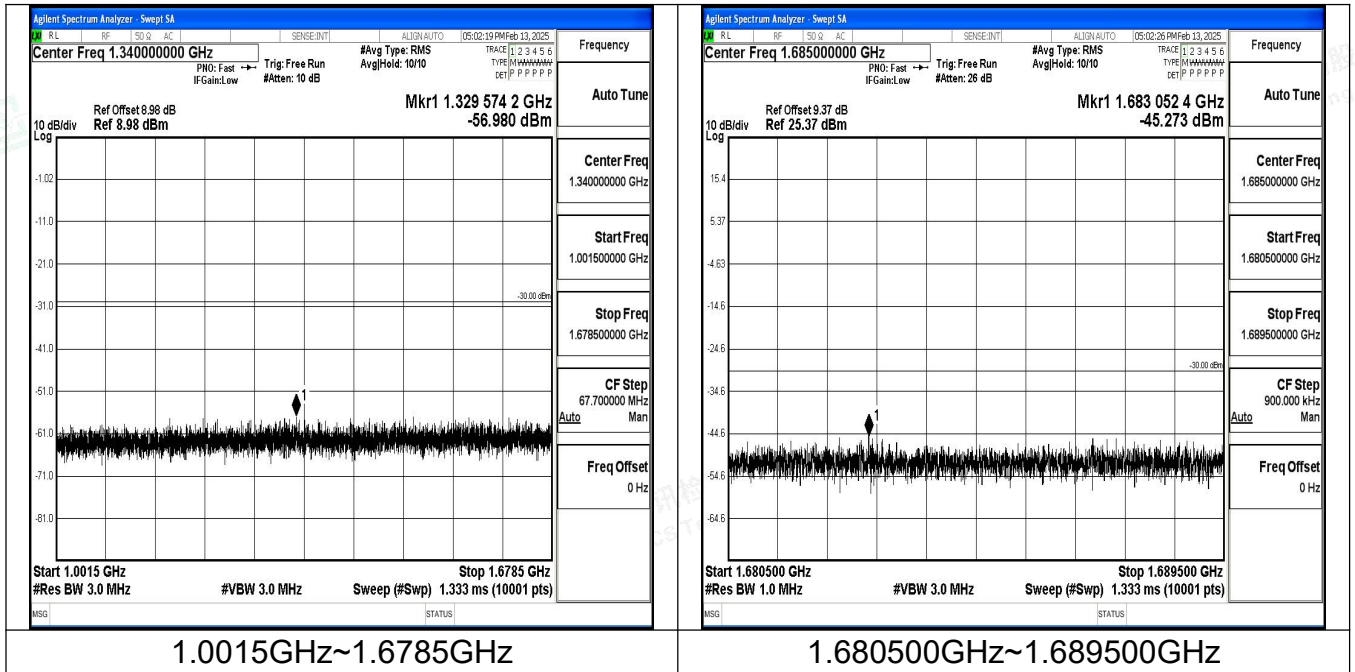


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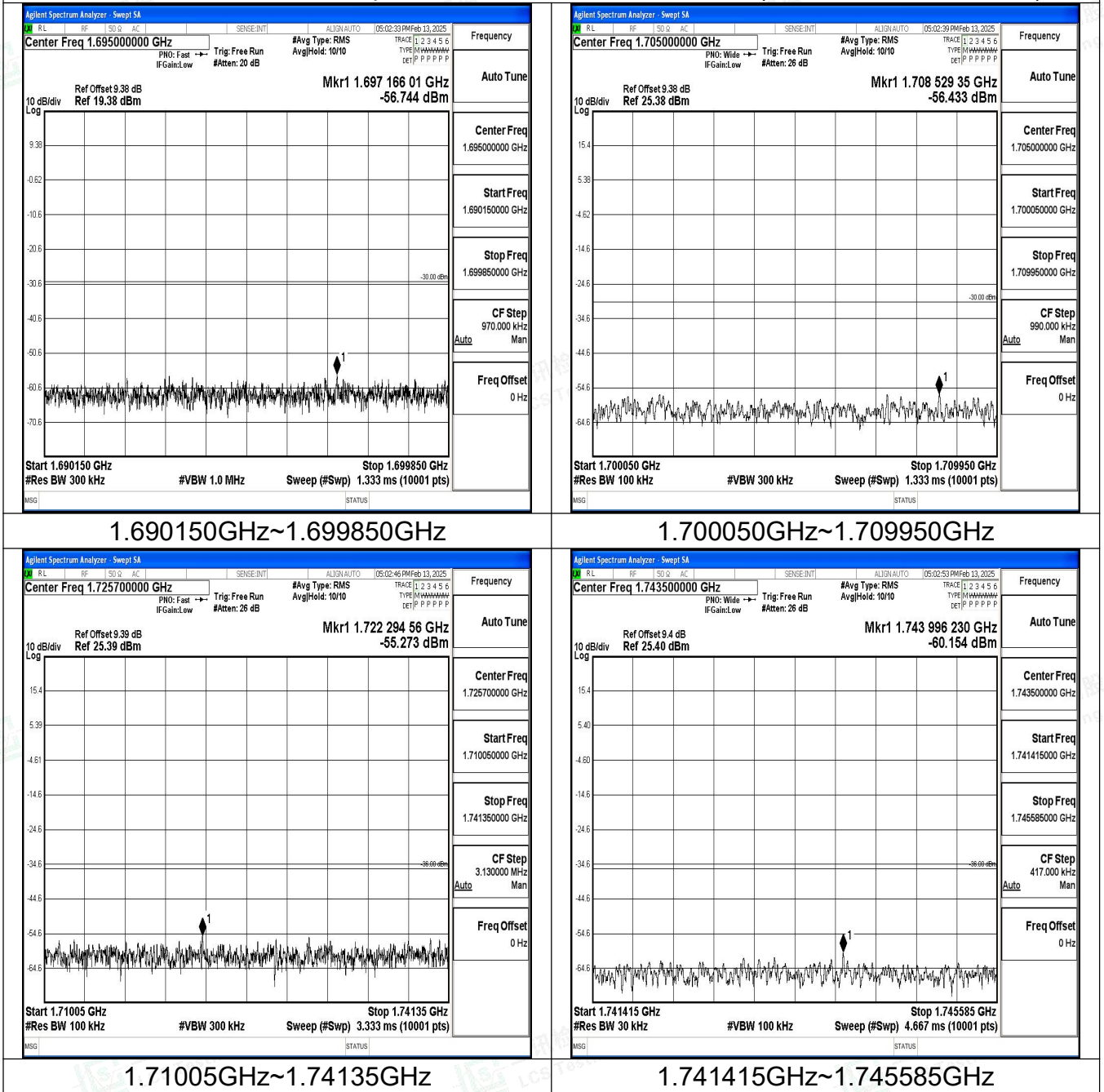
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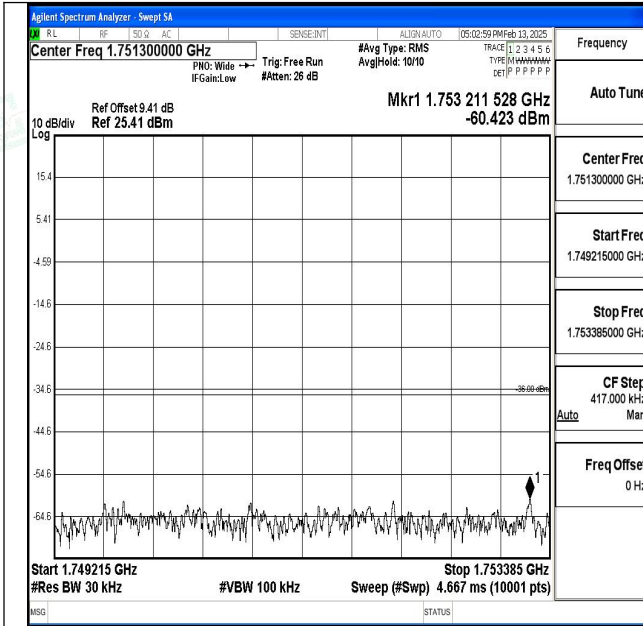


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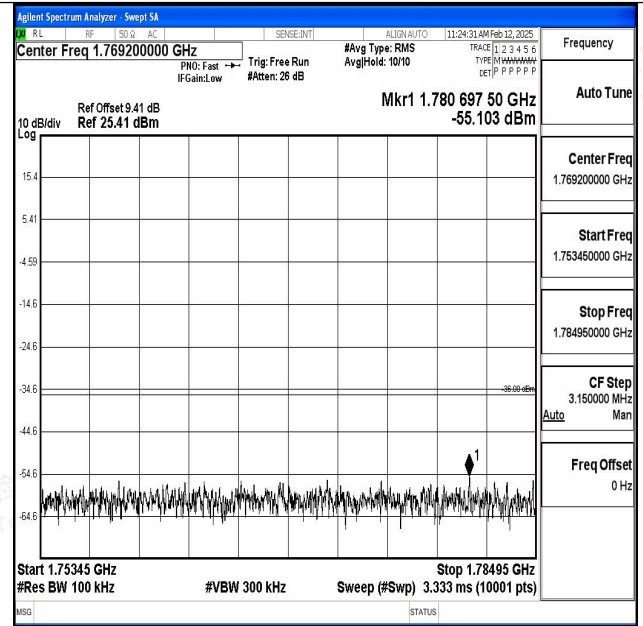
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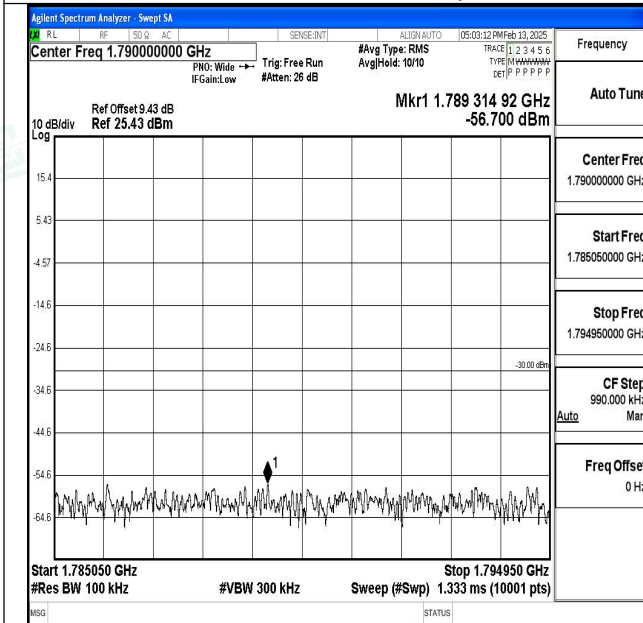


1.749215GHz~1.75385GHz

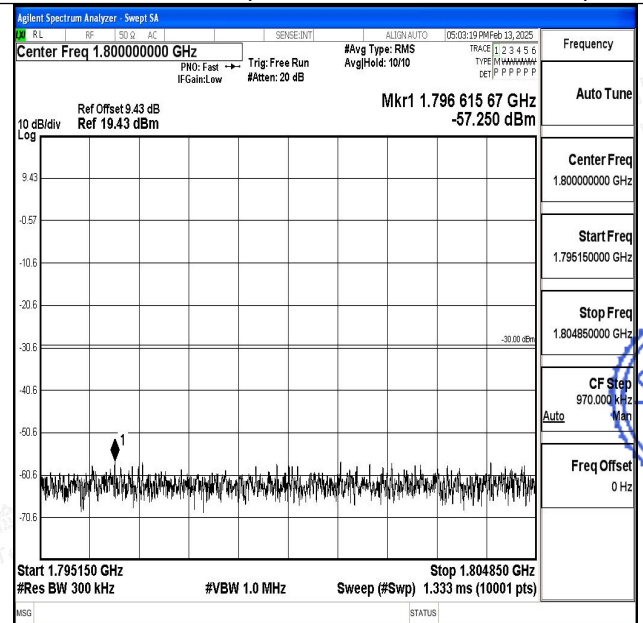


1.75345GHz~1.78495GHz

## The Worst Test Result of Spurious Emissions for DCS 1800 (Middle Channel, Traffic)



1.785050GHz~1.794950GHz



1.795150GHz~1.804850GHz

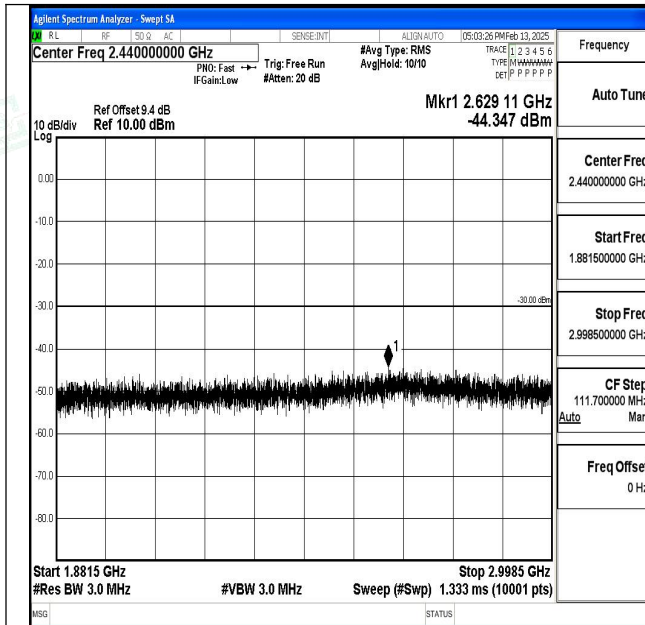


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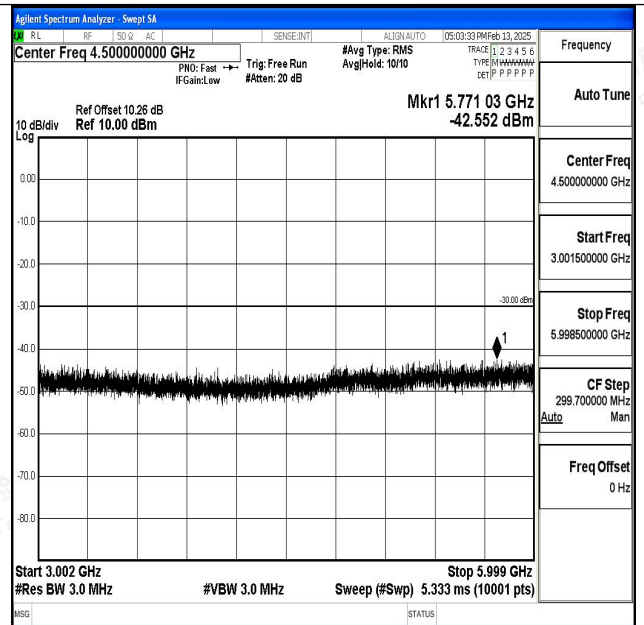
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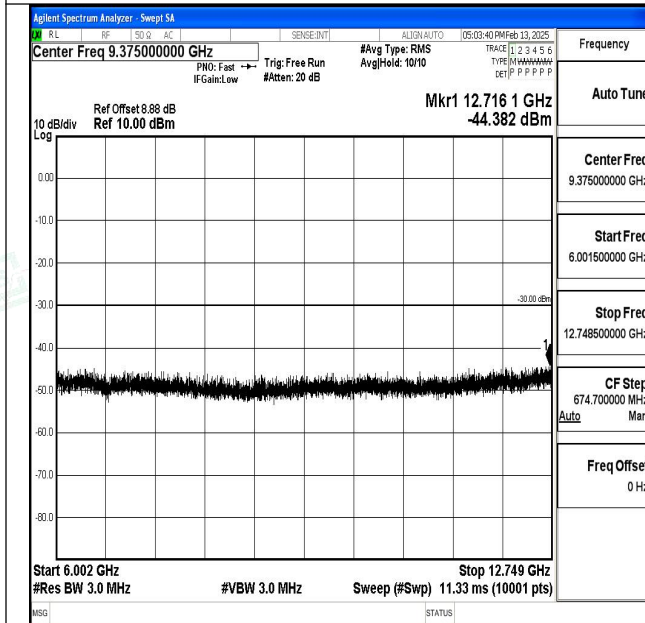
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1.8815GHz~2.9985GHz



3.002GHz~5.999GHz



6.002GHz~12.749GHz



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## Transmitter spurious emissions

### Radiated spurious emissions - MS allocated a channel(Worst Case)

GSM 900 Band: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
102.71	Horizontal	-70.43	-36.00	Pass
428.91	H	-50.48	-36.00	
1792.18	H	-65.83	-30.00	
2693.27	H	-61.67	-30.00	
3580.49	H	-61.65	-30.00	
GSM 900 Band: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
261.11	Vertical	-70.39	-36.00	Pass
310.43	V	-63.17	-36.00	
1791.56	V	-51.27	-30.00	
2692.30	V	-60.17	-30.00	
3582.30	V	-63.06	-30.00	

DCS 1800 Band: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
262.35	Horizontal	-66.38	-36.00	Pass
421.89	H	-66.76	-36.00	
1445.68	H	-54.21	-30.00	
2824.26	H	-63.31	-30.00	
3499.30	H	-69.92	-30.00	
DCS 1800 Band: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
105.98	Vertical	-51.48	-36.00	Pass
348.13	V	-56.51	-36.00	
1442.90	V	-70.31	-30.00	
2826.19	V	-67.11	-30.00	
3496.71	V	-69.95	-30.00	



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## Radiated spurious emissions - MS in Idle Mode(Worst Case)

GSM 900 Band: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
275.87	Horizontal	-63.96	-57.00	Pass
355.66	H	-67.98	-57.00	
1969.75	H	-68.25	-47.00	
2793.33	H	-62.13	-47.00	
3689.93	H	-72.40	-47.00	
GSM 900 Band: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
188.14	Vertical	-63.03	-57.00	Pass
427.64	V	-75.63	-57.00	
1275.64	V	-67.12	-47.00	
2429.28	V	-61.08	-47.00	
3915.19	V	-71.37	-47.00	

DCS 1800 Band: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
210.34	Horizontal	-67.31	-57.00	Pass
456.19	H	-63.54	-57.00	
1472.33	H	-74.36	-47.00	
2763.50	H	-66.44	-47.00	
3049.81	H	-70.06	-47.00	
DCS 1800 Band: Middle Channel, Normal condition				
Frequency (MHz)	Radiated Spurious Emission		Limit (dBm)	Test Result
	Polarization	Level(dBm)		
275.08	Vertical	-65.97	-57.00	Pass
328.82	V	-70.30	-57.00	
1689.80	V	-71.10	-47.00	
2540.86	V	-74.89	-47.00	
3721.51	V	-69.69	-47.00	

-----THE END OF REPORT-----

