

## Appendix A: Transmitter maximum output power

### Test Result

TestCondition	Band	Channel	Result(dBm)	Limit(dBm)	Verdict
NTNV	Band5	4133	22.30	20.3 to 25.7	PASS
NTNV	Band5	4175	22.12	20.3 to 25.7	PASS
NTNV	Band5	4232	22.15	20.3 to 25.7	PASS

## Appendix B: Transmitter minimum output power

### Test Result

TestCondition	Band	Channel	Result(dBm)	Limit(dBm)	Verdict
NTNV	Band5	4133	-55.01	-49	PASS
NTNV	Band5	4175	-55.38	-49	PASS
NTNV	Band5	4232	-54.77	-49	PASS

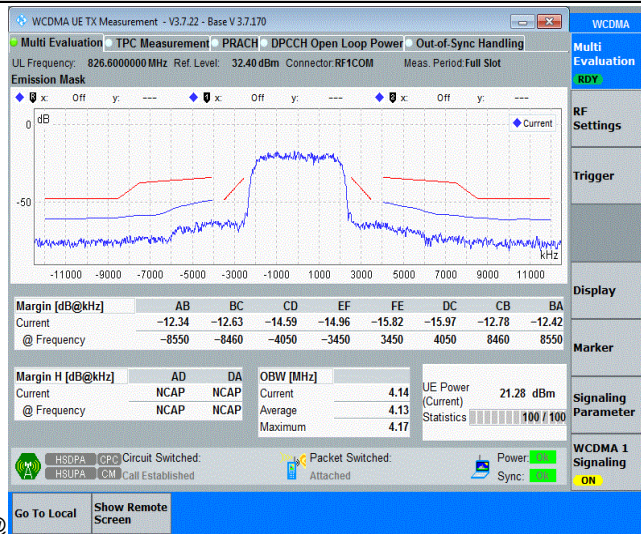
## Appendix C: Transmitter spectrum emission mask

### Test Result(WCDMA)

TestCondition	Band	Channel	Result	Limit	Verdict
NTNV	Band5	4133	See graph	See graph	PASS
NTNV	Band5	4175	See graph	See graph	PASS
NTNV	Band5	4232	See graph	See graph	PASS

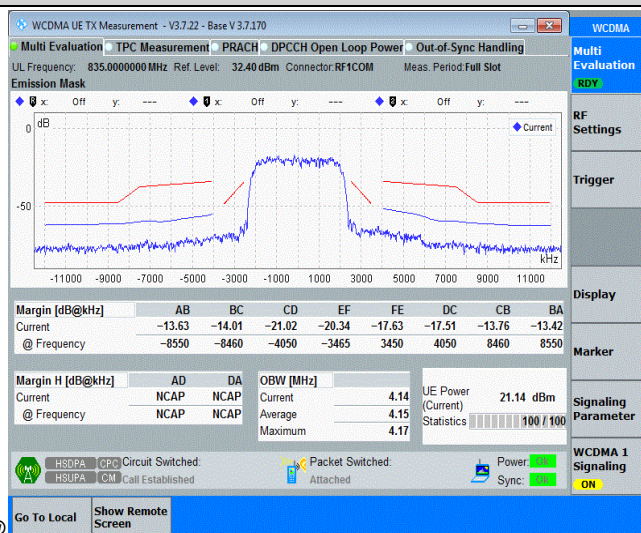
## Test Graphs(WCDMA)

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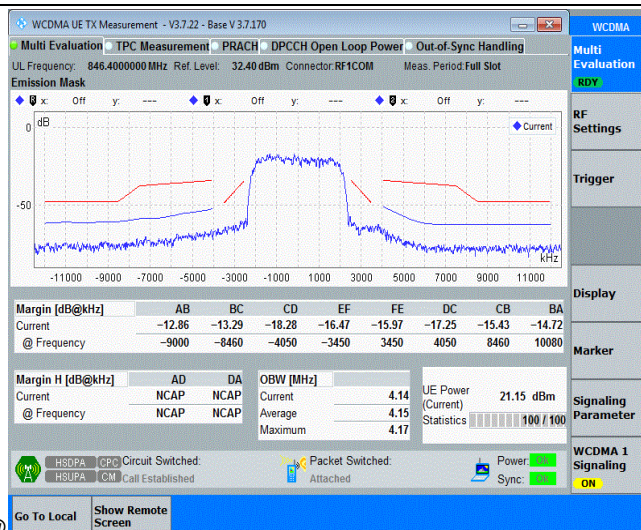
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@CE\_WCDMA\_SEM\_IMG@

@CE\_WCDMA\_SEM\_IMG@NTNV-Band5-4232



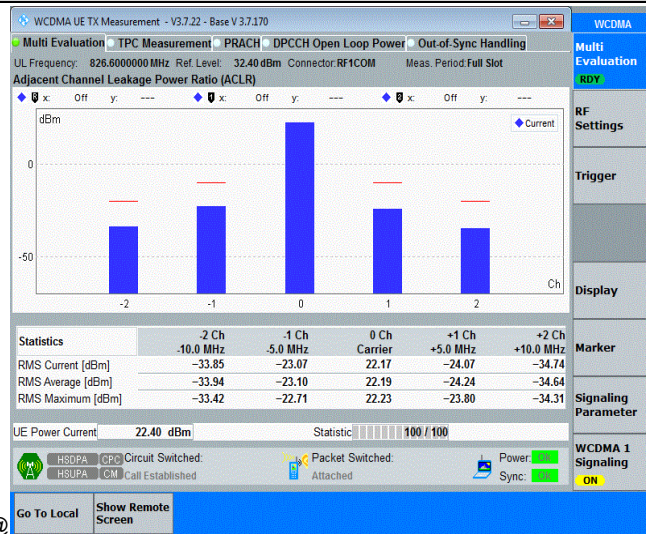
## Appendix D: Transmitter adjacent channel leakage power ratio

### Test Result(WCDMA)

TestCondition	Band	Channel	Result	Limit	Verdict
NTNV	Band5	4133	See graph	See graph	PASS
NTNV	Band5	4175	See graph	See graph	PASS
NTNV	Band5	4232	See graph	See graph	PASS

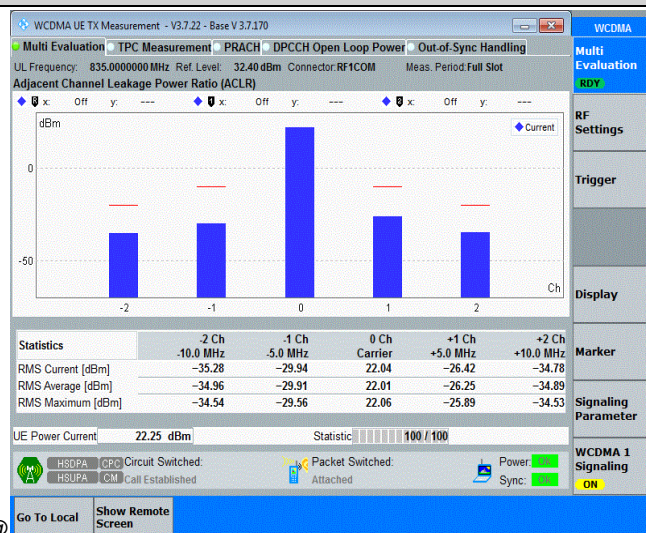
## Test Graphs(WCDMA)

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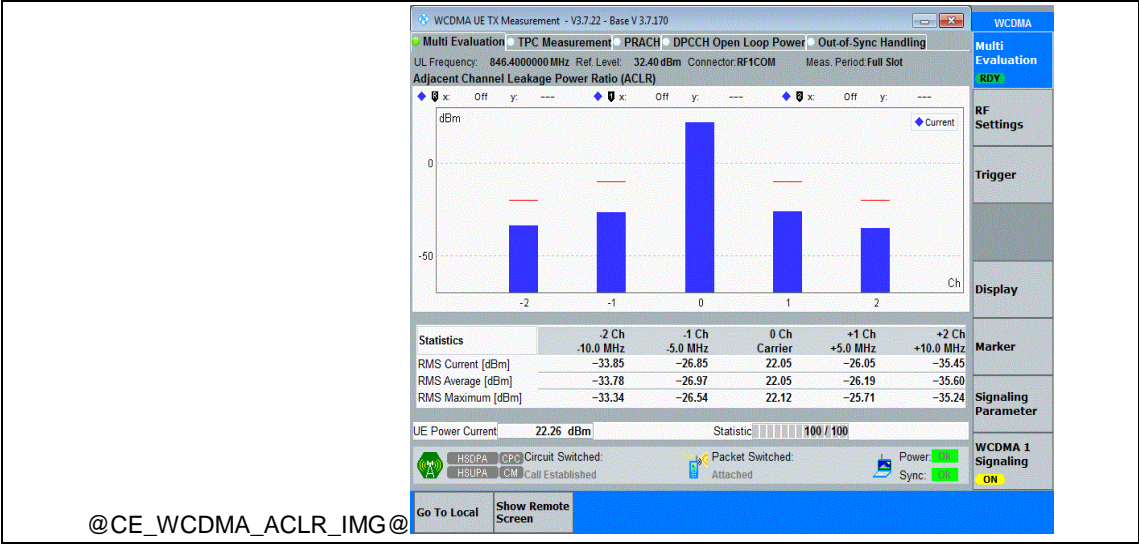
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@CE\_WCDMA\_ACLR\_IMG@

@CE\_WCDMA\_ACLR\_IMG@NTNV-Band5-4232





@CE\_WCDMA\_ACLR\_IMG@



## Appendix E: Transmitter spurious emissions

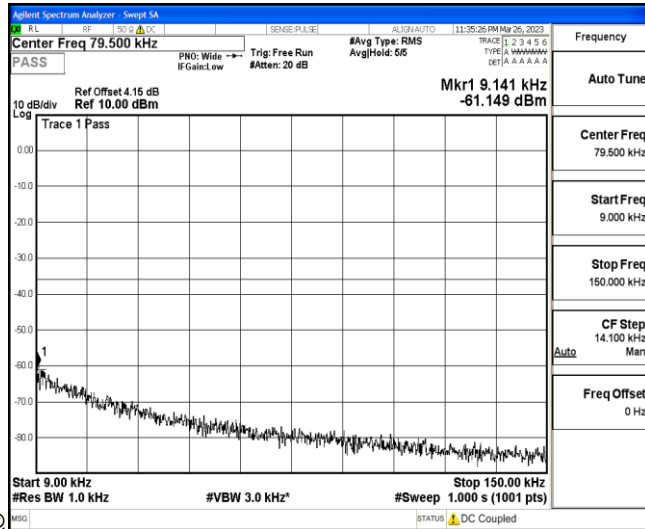
### Test Result

Band	Channel	Frequency Range (MHz)	RBW (KHz)	Frequency (MHz)	Result (dBm)	Limit (dBm)	Verdict
Band5	4133	0.009~0.15MHz	-61.15	0.01	-61.15	-36	PASS
Band5	4133	0.15~30MHz	-62.98	0.15	-62.98	-36	PASS
Band5	4133	30~814.1MHz	-55.46	200.93	-55.46	-36	PASS
Band5	4133	462.5~467.5MHz	-77.24	465.27	-77.24	-50	PASS
Band5	4133	703~803MHz	-75.74	792	-75.74	-50	PASS
Band5	4133	717~728MHz	-76.28	727.36	-76.28	-50	PASS
Band5	4133	729~746MHz	-70.09	744.08	-70.09	-60	PASS
Band5	4133	746~756MHz	-70.22	754.72	-70.22	-60	PASS
Band5	4133	758~768MHz	-70.07	767.23	-70.07	-60	PASS
Band5	4133	839.1~1000MHz	-55.25	938.54	-55.25	-36	PASS
Band5	4133	859~869MHz	-75.88	867.41	-75.88	-27	PASS
Band5	4133	869~894MHz	-80.58	893.55	-80.58	-60	PASS
Band5	4133	1000~3000MHz	-58.47	2656	-58.47	-30	PASS
Band5	4133	1525~1559MHz	-71.52	1556.99	-71.52	-50	PASS
Band5	4133	1805~1880MHz	-75.7	1879.7	-75.7	-60	PASS
Band5	4133	1930~1995MHz	-64.11	1985.84	-64.11	-60	PASS
Band5	4133	2110~2170MHz	-63.99	2117.44	-63.99	-60	PASS
Band5	4133	2180~2200MHz	-69.89	2190.3	-69.89	-50	PASS
Band5	4133	2300~2400MHz	-62.97	2399.9	-62.97	-60	PASS
Band5	4133	2350~2360MHz	-69.06	2353.6	-69.06	-50	PASS
Band5	4133	2496~2690MHz	-67.54	2662.65	-67.54	-50	PASS
Band5	4133	2570~2690MHz	-61.21	2667.68	-61.21	-60	PASS
Band5	4133	3000~12750MHz	-53.63	12428.25	-53.63	-30	PASS
Band5	4133	3400~3800MHz	-66.14	3426.4	-66.14	-50	PASS
Band5	4133	3510~3590MHz	-65.2	3589.6	-65.2	-60	PASS
Band5	4175	0.009~0.15MHz	-61.1	0.01	-61.1	-36	PASS
Band5	4175	0.15~30MHz	-62.76	0.15	-62.76	-36	PASS
Band5	4175	30~822.5MHz	-55.46	201.18	-55.46	-36	PASS
Band5	4175	462.5~467.5MHz	-77.21	467.12	-77.21	-50	PASS
Band5	4175	703~803MHz	-75.76	785.6	-75.76	-50	PASS
Band5	4175	717~728MHz	-76.29	727.08	-76.29	-50	PASS
Band5	4175	729~746MHz	-70.1	745.51	-70.1	-60	PASS
Band5	4175	746~756MHz	-70.24	754.53	-70.24	-60	PASS
Band5	4175	758~768MHz	-70.08	767.26	-70.08	-60	PASS
Band5	4175	847.5~1000MHz	-55.22	917.96	-55.22	-36	PASS
Band5	4175	859~869MHz	-75.86	859.72	-75.86	-27	PASS

Band5	4175	869~894MHz	-80.57	893.43	-80.57	-60	PASS
Band5	4175	1000~3000MHz	-58.48	2664	-58.48	-30	PASS
Band5	4175	1525~1559MHz	-71.52	1552.61	-71.52	-50	PASS
Band5	4175	1805~1880MHz	-65.24	1879.7	-65.24	-60	PASS
Band5	4175	1930~1995MHz	-64.13	1990.45	-64.13	-60	PASS
Band5	4175	2110~2170MHz	-64	2123.2	-64	-60	PASS
Band5	4175	2180~2200MHz	-69.88	2197.4	-69.88	-50	PASS
Band5	4175	2300~2400MHz	-62.98	2397.5	-62.98	-60	PASS
Band5	4175	2350~2360MHz	-69.04	2357.98	-69.04	-50	PASS
Band5	4175	2496~2690MHz	-67.53	2667.11	-67.53	-50	PASS
Band5	4175	2570~2690MHz	-61.21	2664.56	-61.21	-60	PASS
Band5	4175	3000~12750MHz	-53.66	12399	-53.66	-30	PASS
Band5	4175	3400~3800MHz	-66.19	3420	-66.19	-50	PASS
Band5	4175	3510~3590MHz	-65.18	3589.68	-65.18	-60	PASS
Band5	4232	0.009~0.15MHz	-60.57	0.01	-60.57	-36	PASS
Band5	4232	0.15~30MHz	-63.07	0.15	-63.07	-36	PASS
Band5	4232	30~833.9MHz	-55.54	788.88	-55.54	-36	PASS
Band5	4232	462.5~467.5MHz	-77.23	464.77	-77.23	-50	PASS
Band5	4232	703~803MHz	-75.76	786	-75.76	-50	PASS
Band5	4232	717~728MHz	-76.3	725.54	-76.3	-50	PASS
Band5	4232	729~746MHz	-70.09	745.73	-70.09	-60	PASS
Band5	4232	746~756MHz	-70.24	755.86	-70.24	-60	PASS
Band5	4232	758~768MHz	-70.06	767.79	-70.06	-60	PASS
Band5	4232	858.9~1000MHz	-55.24	907.44	-55.24	-36	PASS
Band5	4232	859~869MHz	-75.91	867.29	-75.91	-27	PASS
Band5	4232	869~894MHz	-73.57	893.28	-73.57	-60	PASS
Band5	4232	1000~3000MHz	-58.45	2674	-58.45	-30	PASS
Band5	4232	1525~1559MHz	-71.51	1552.54	-71.51	-50	PASS
Band5	4232	1805~1880MHz	-65.24	1878.88	-65.24	-60	PASS
Band5	4232	1930~1995MHz	-64.1	1984.34	-64.1	-60	PASS
Band5	4232	2110~2170MHz	-64	2122.3	-64	-60	PASS
Band5	4232	2180~2200MHz	-69.87	2189.1	-69.87	-50	PASS
Band5	4232	2300~2400MHz	-62.96	2399.2	-62.96	-60	PASS
Band5	4232	2350~2360MHz	-69.05	2358.98	-69.05	-50	PASS
Band5	4232	2496~2690MHz	-67.57	2673.9	-67.57	-50	PASS
Band5	4232	2570~2690MHz	-61.2	2672.24	-61.2	-60	PASS
Band5	4232	3000~12750MHz	-53.65	12438	-53.65	-30	PASS
Band5	4232	3400~3800MHz	-66.18	3439.6	-66.18	-50	PASS
Band5	4232	3510~3590MHz	-65.2	3589.68	-65.2	-60	PASS

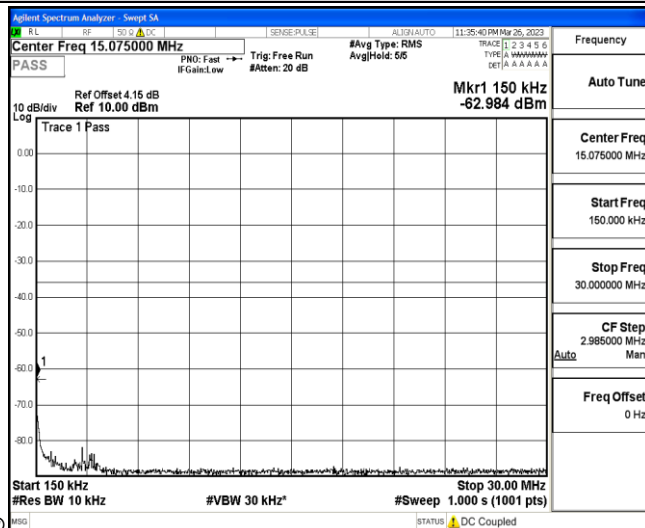
## Test Graphs

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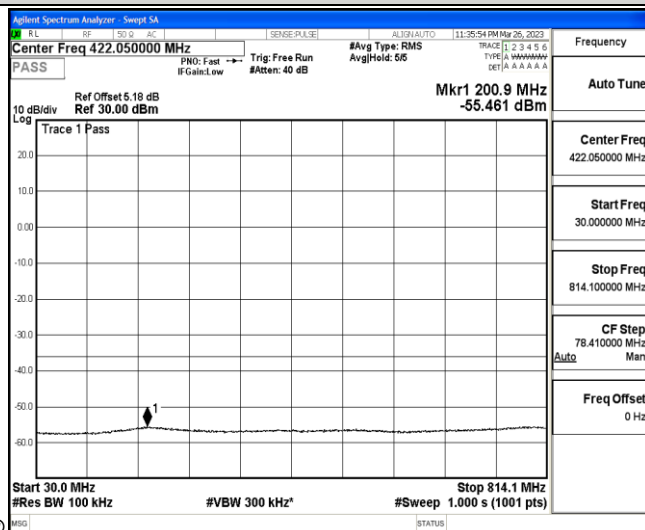
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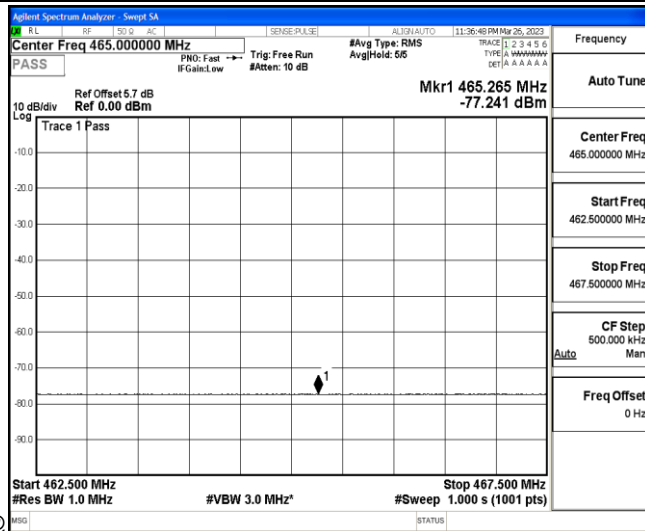
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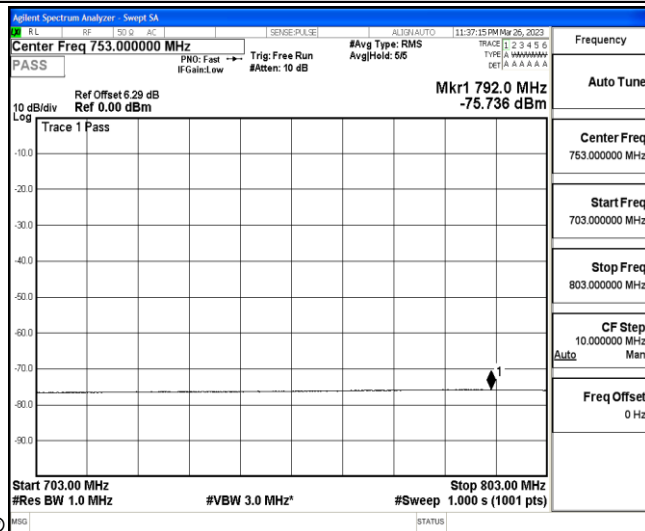
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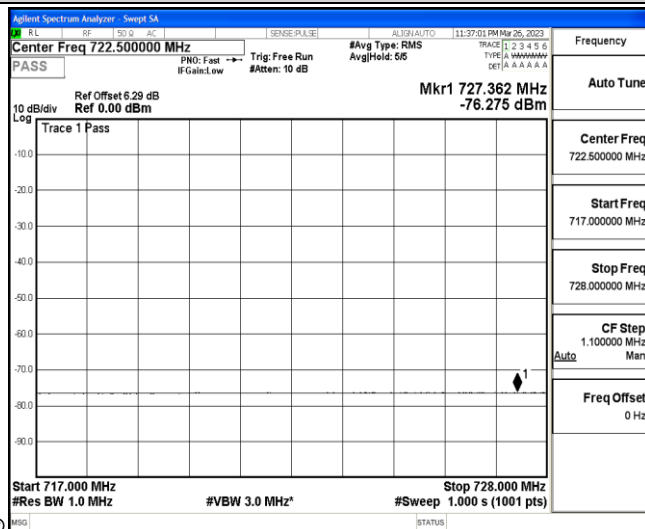
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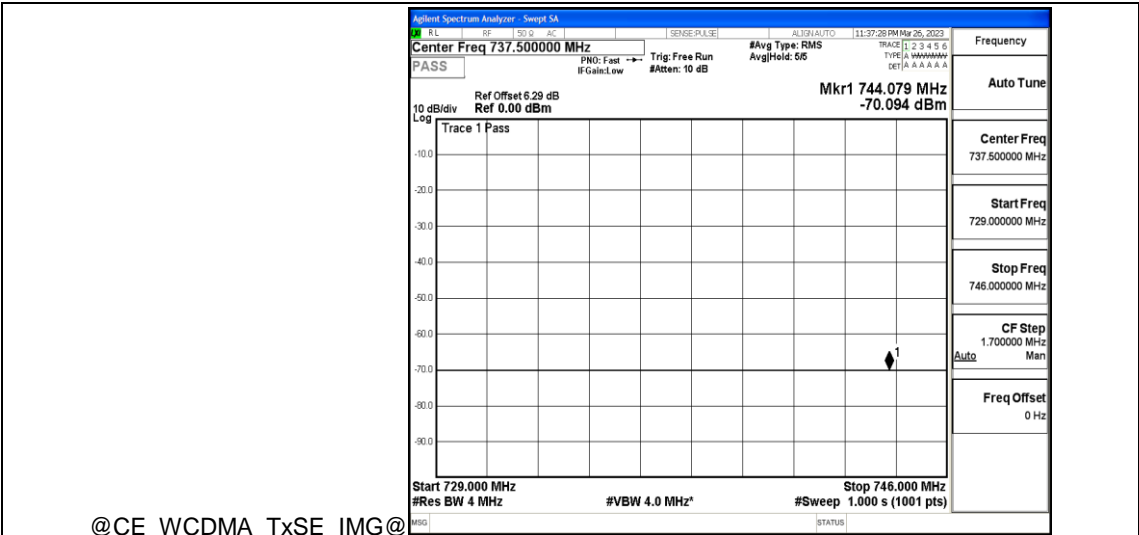
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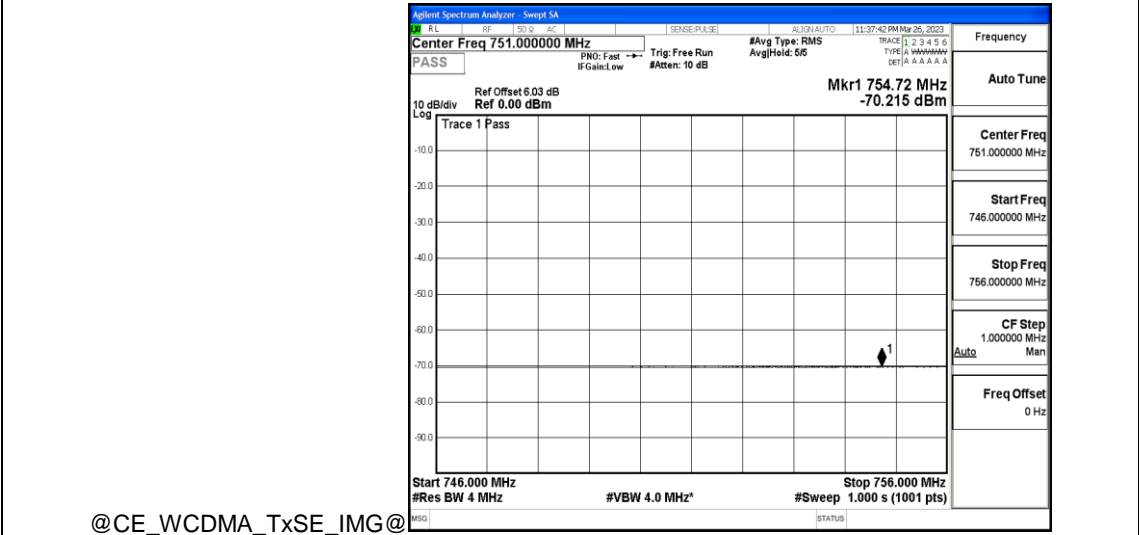
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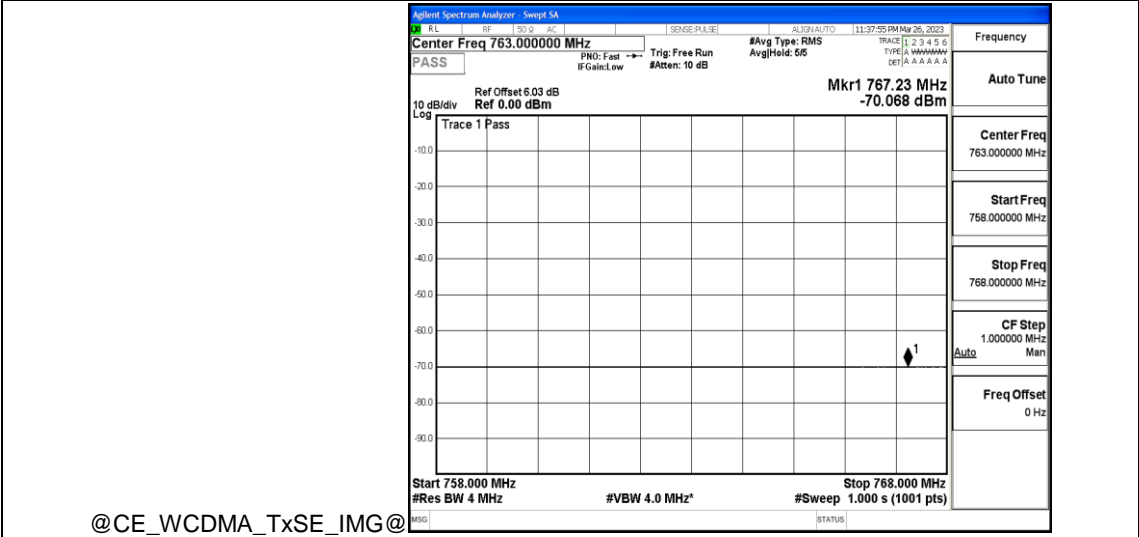
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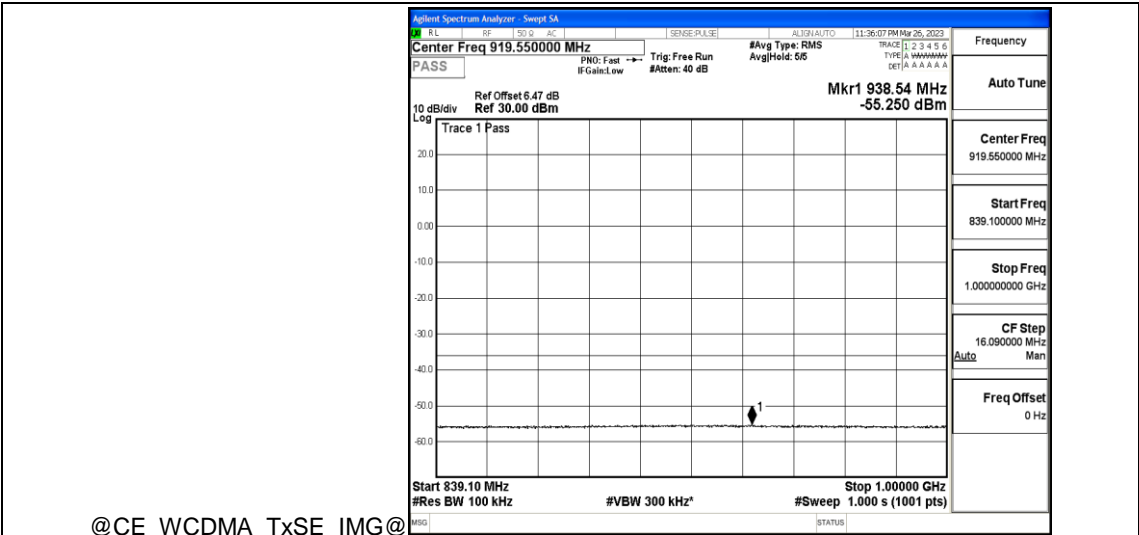
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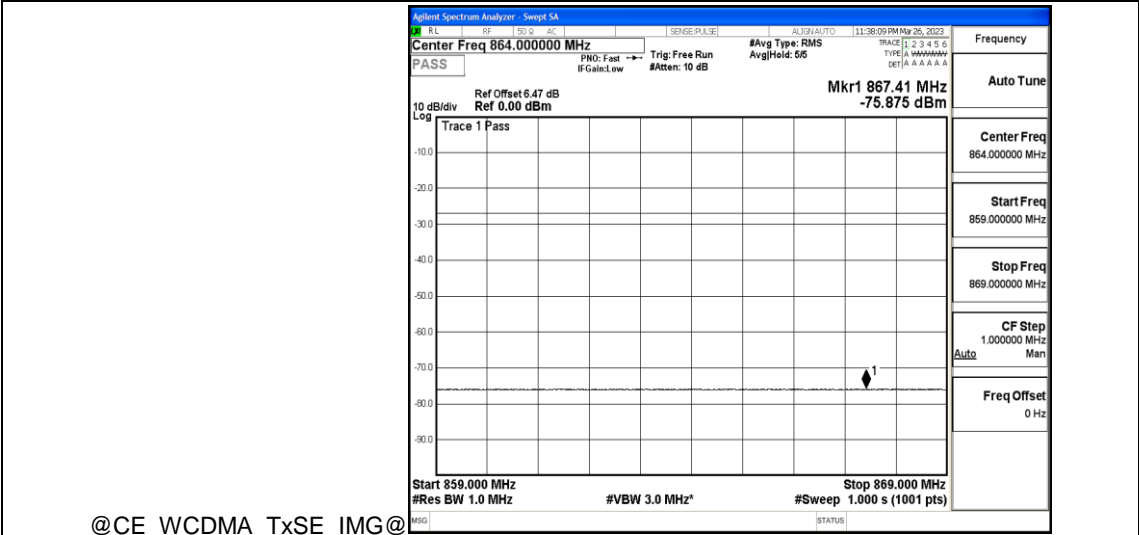


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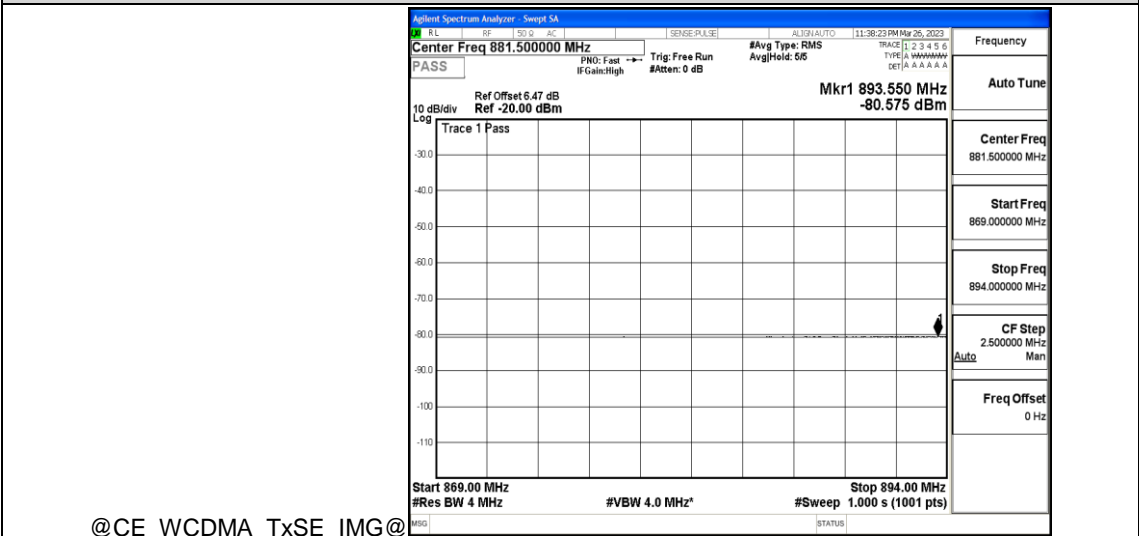
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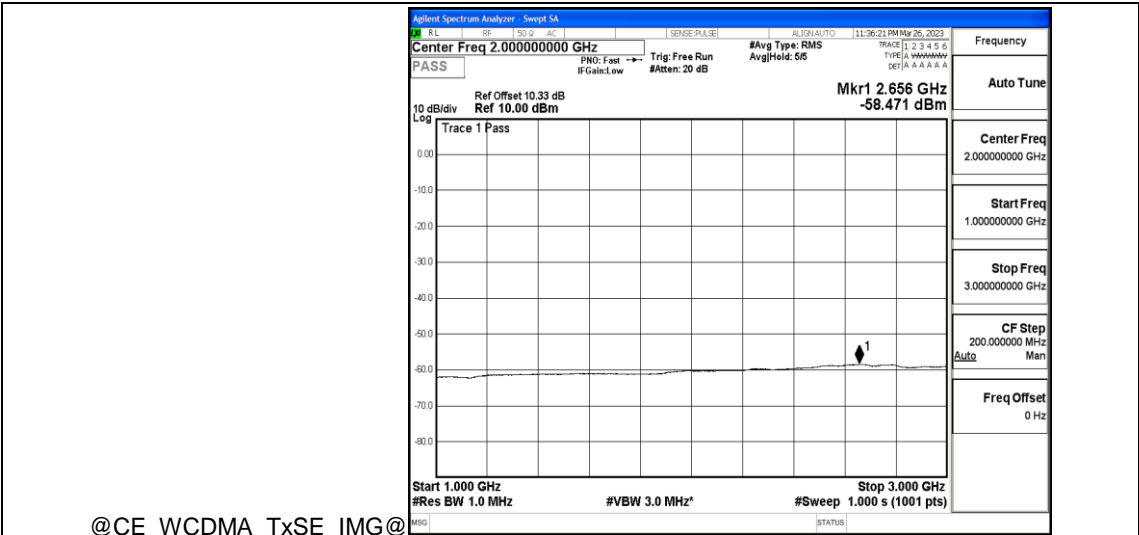
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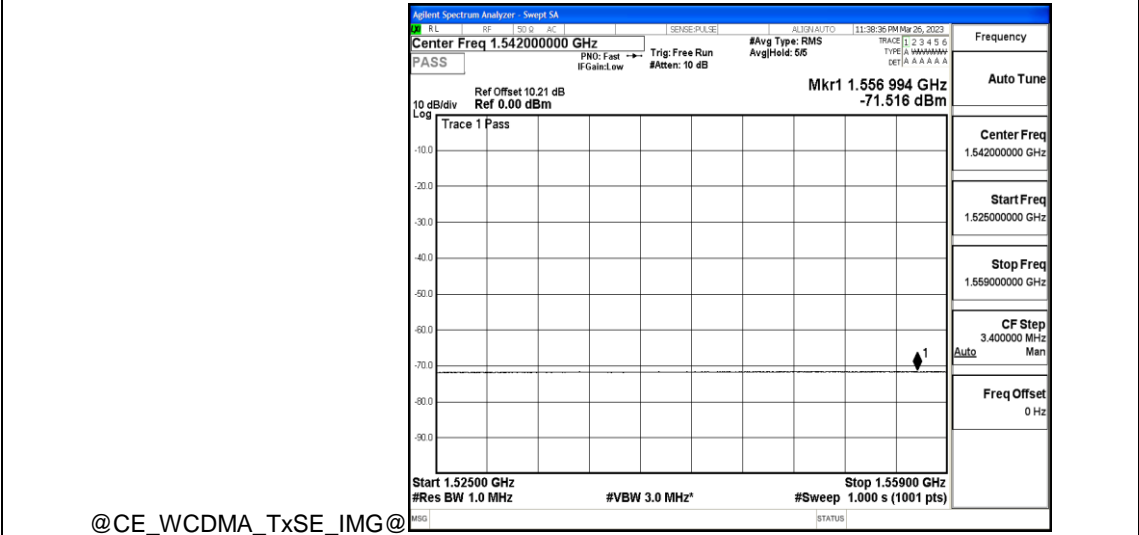


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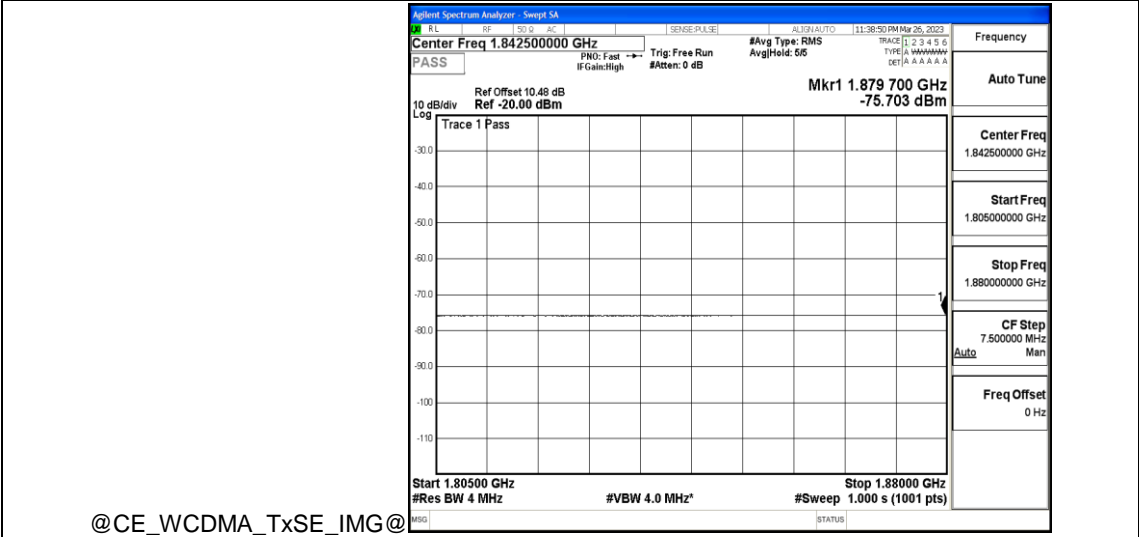
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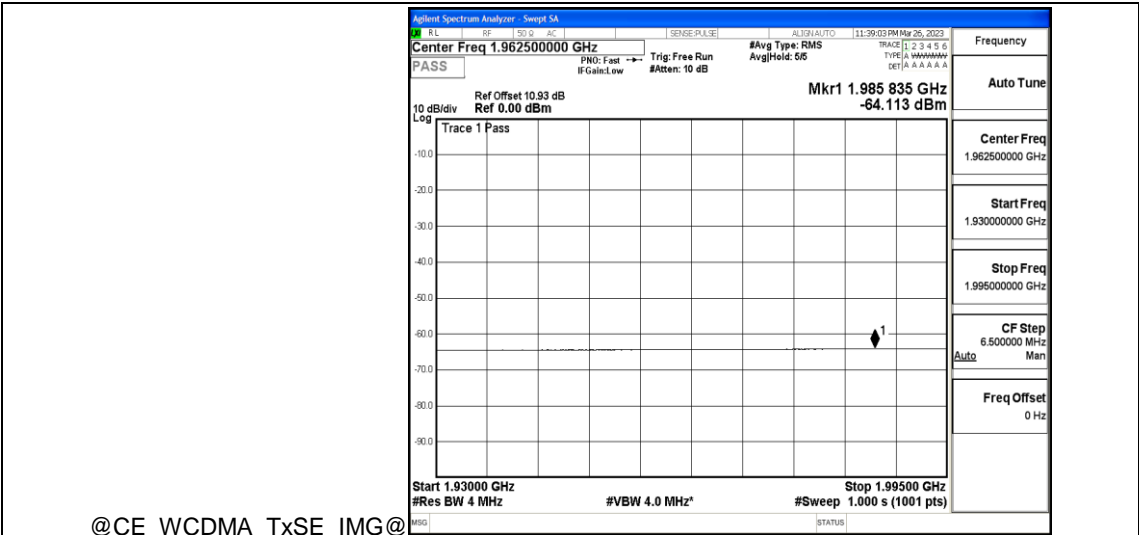
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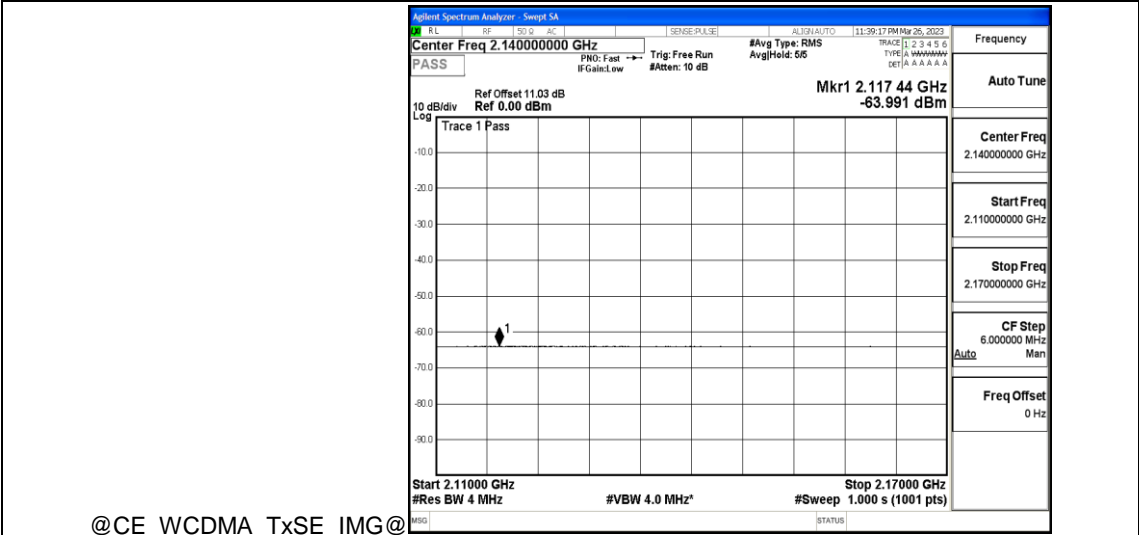
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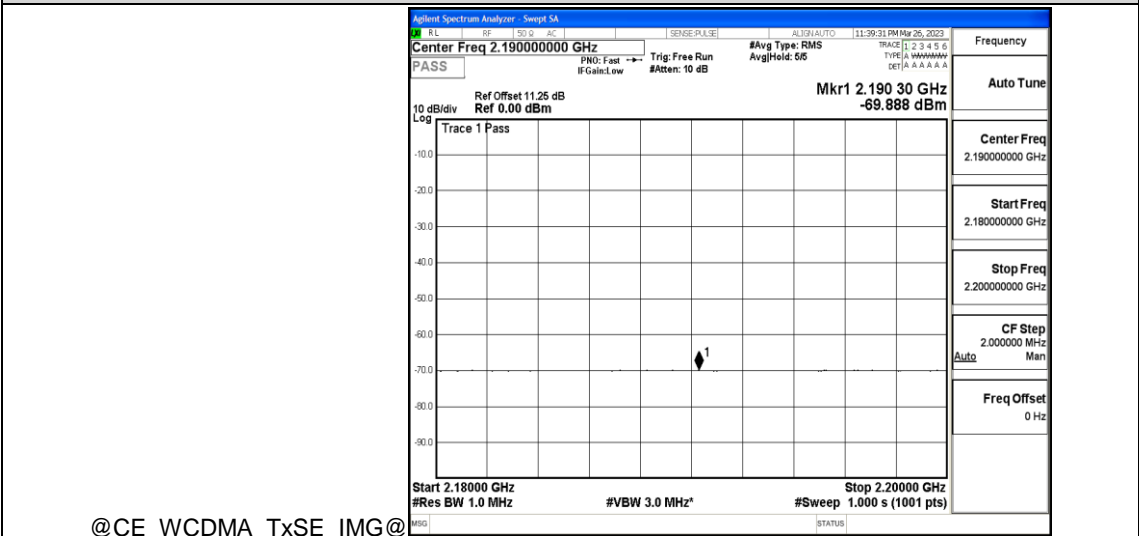




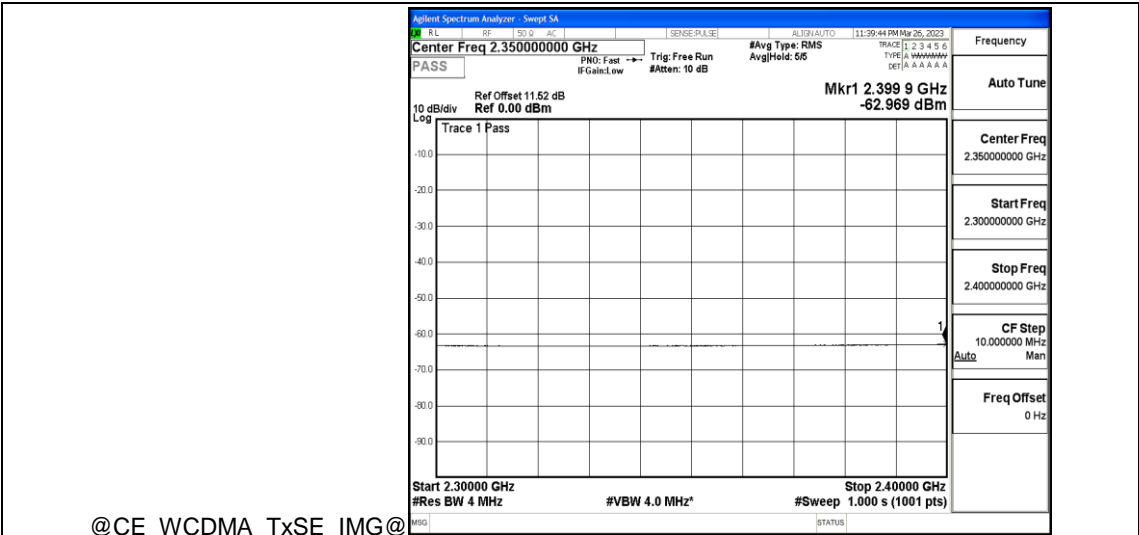
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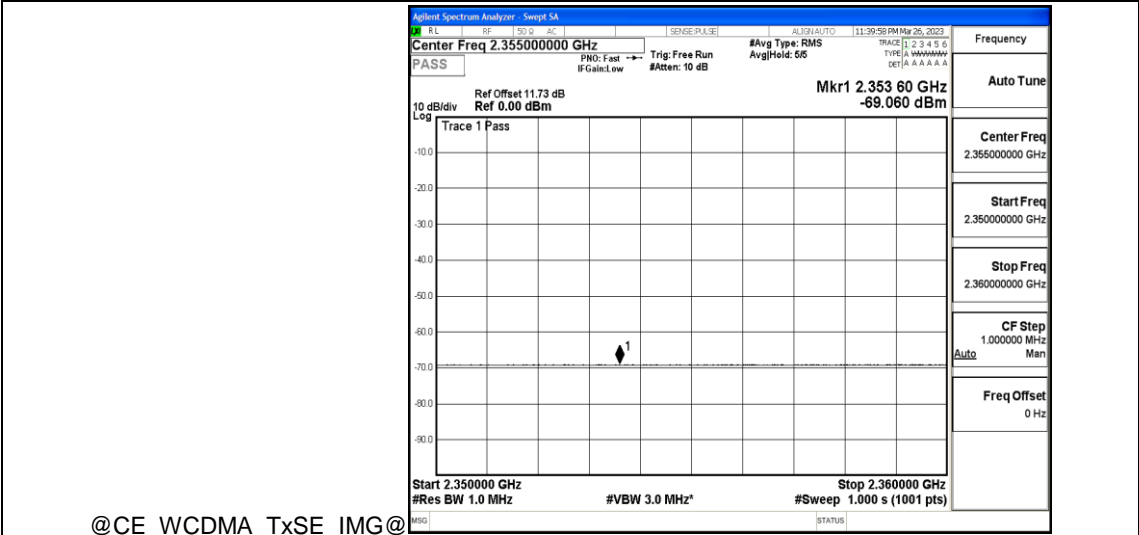
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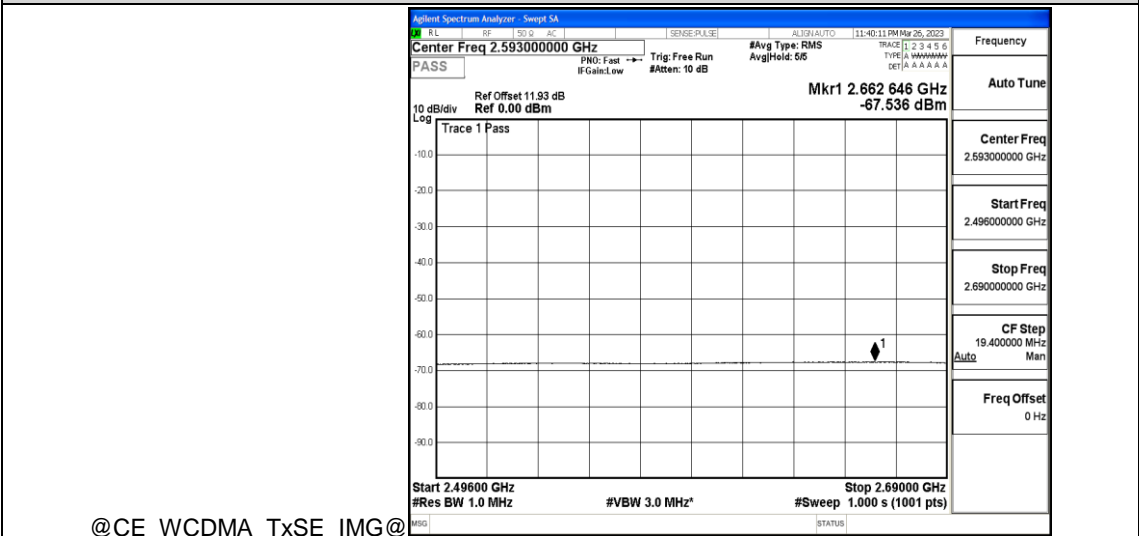
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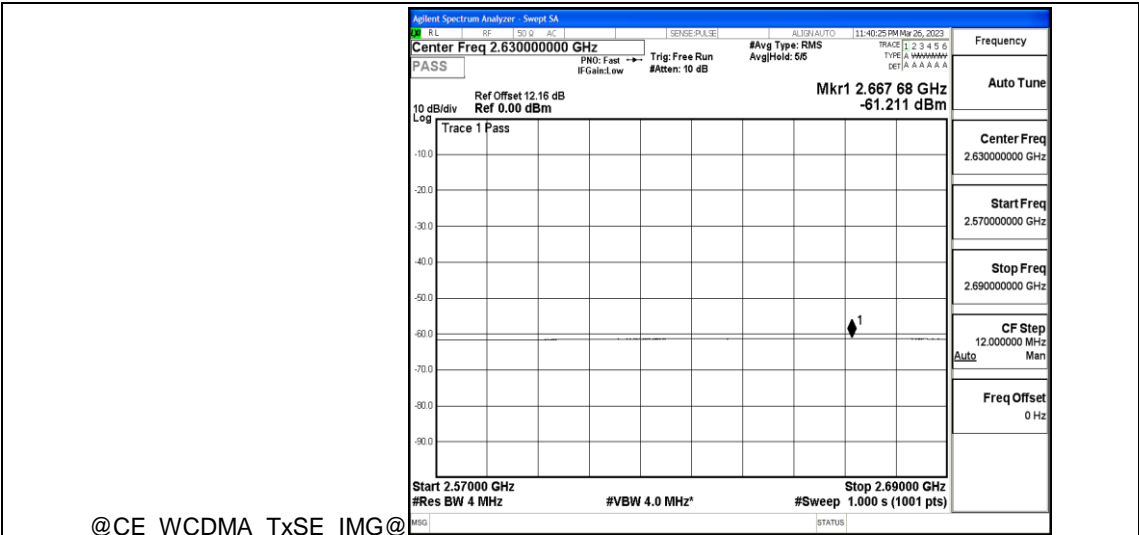
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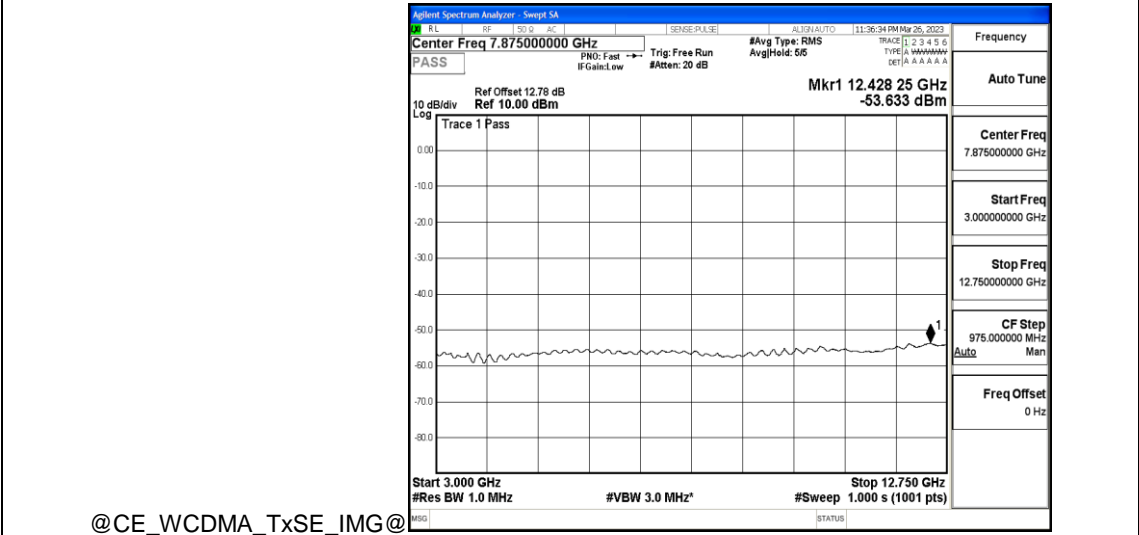
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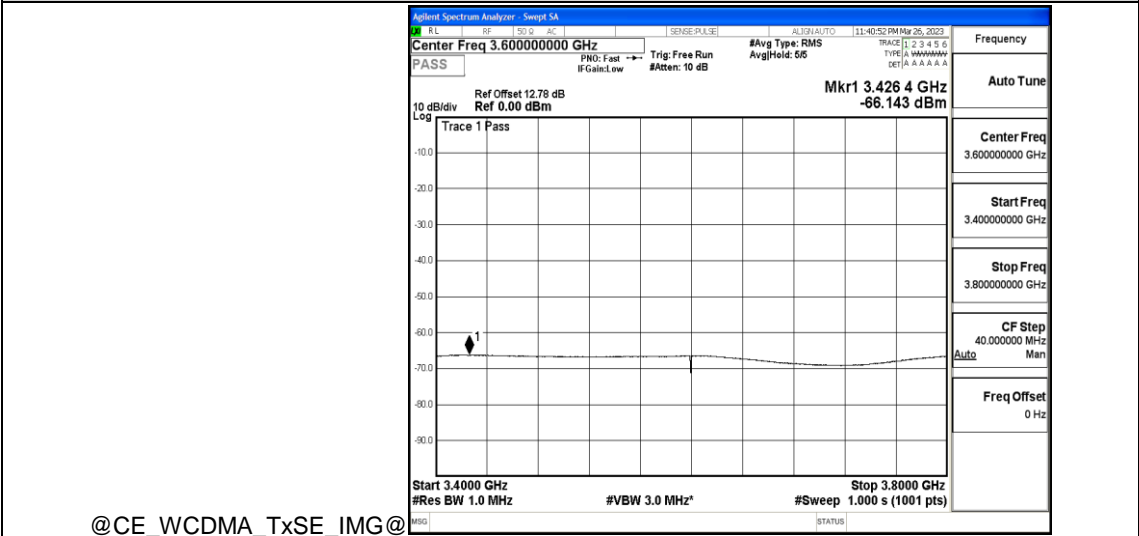
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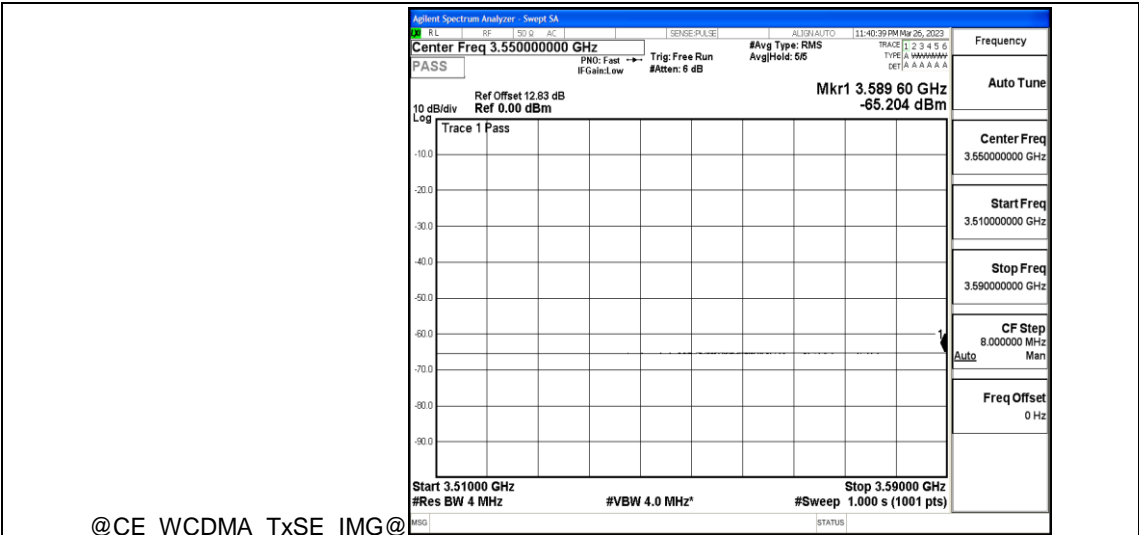
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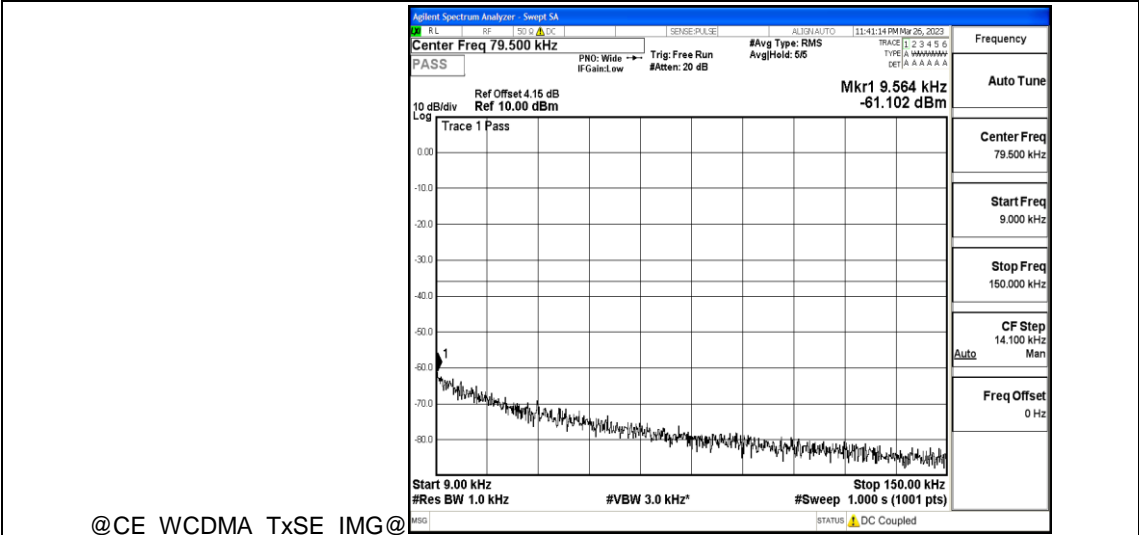
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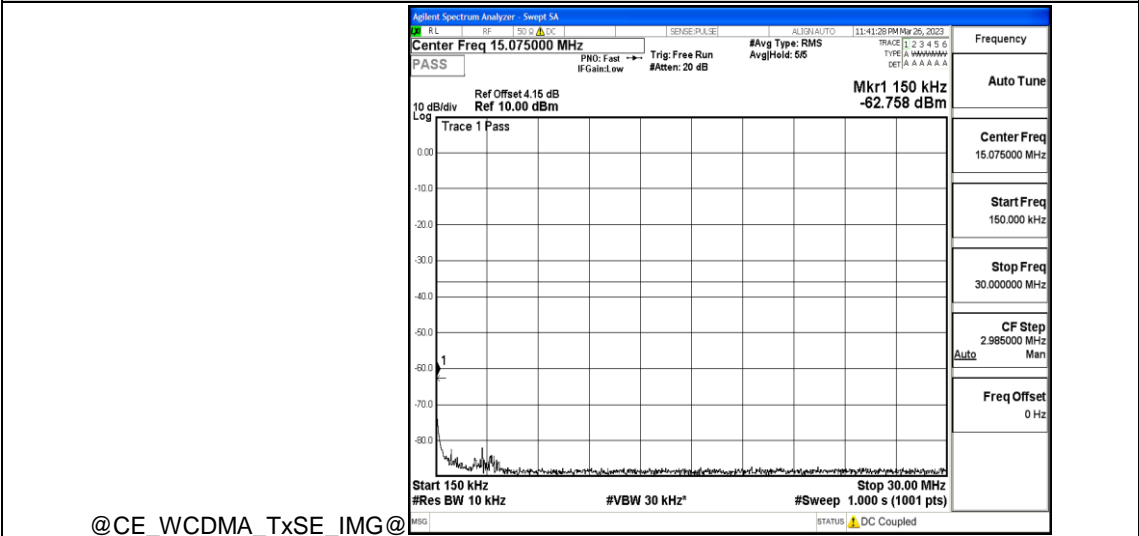
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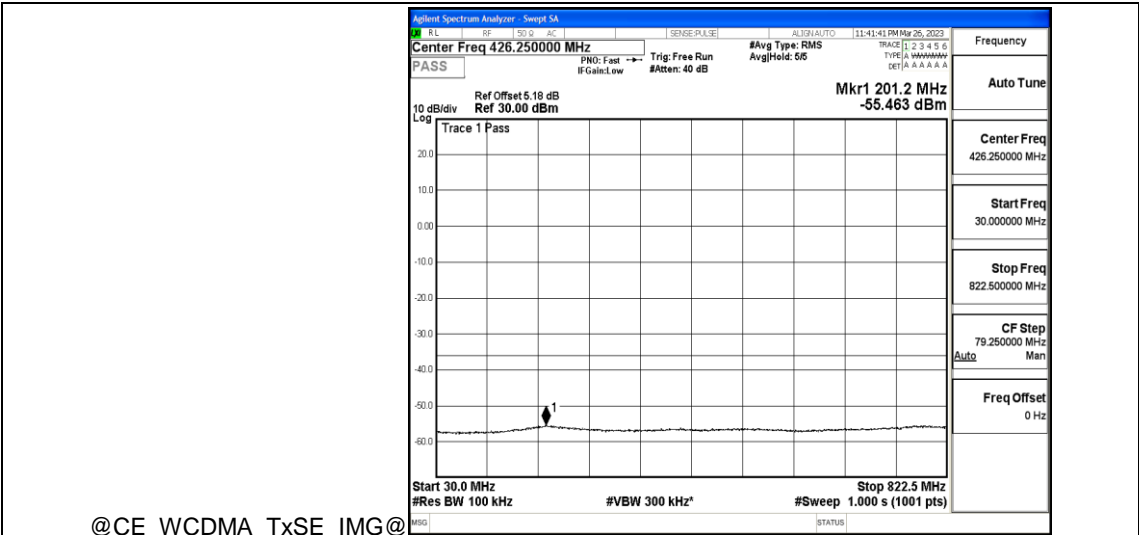
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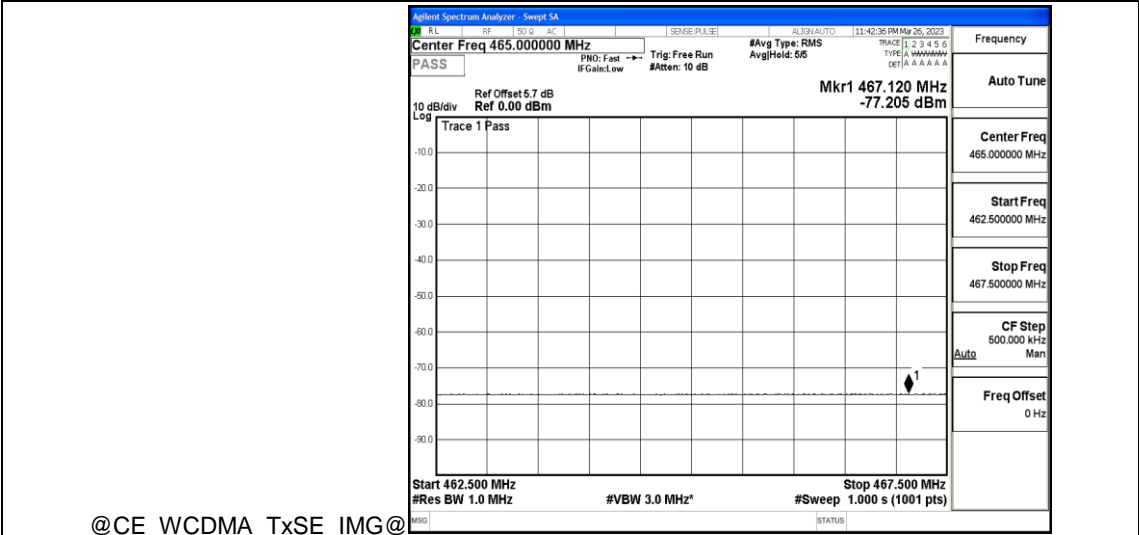
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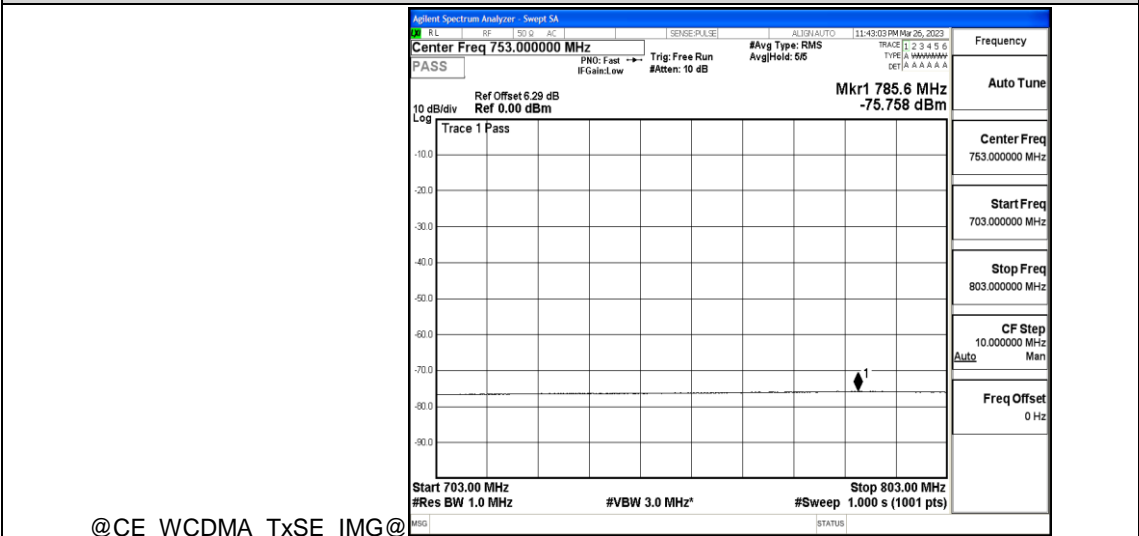
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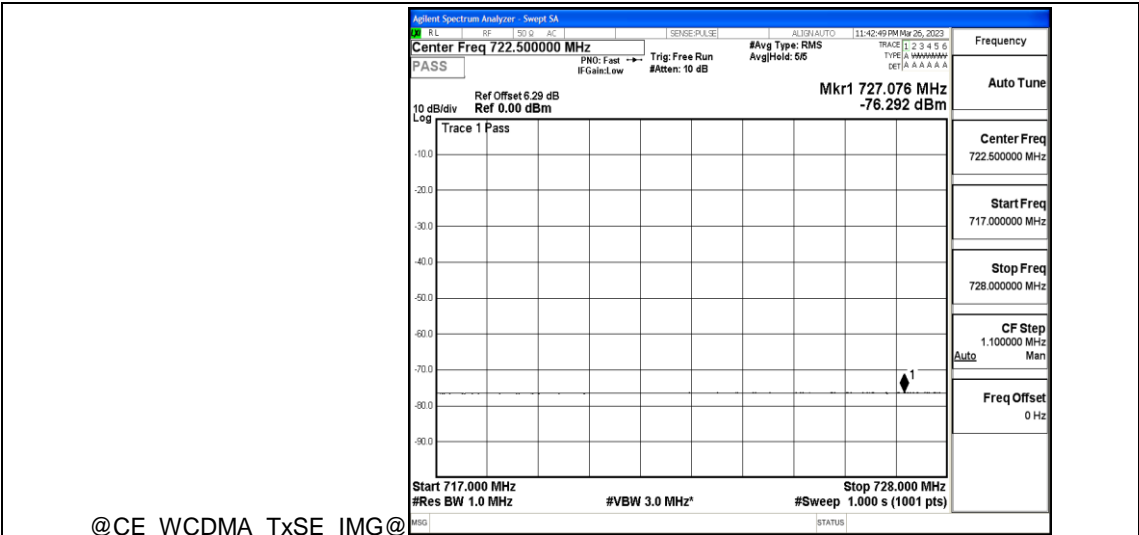
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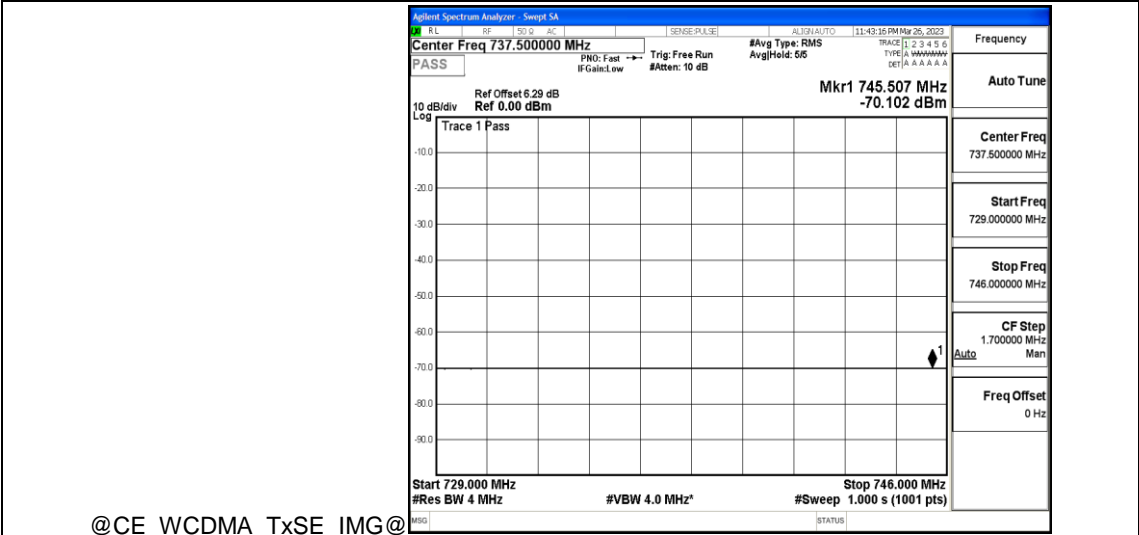
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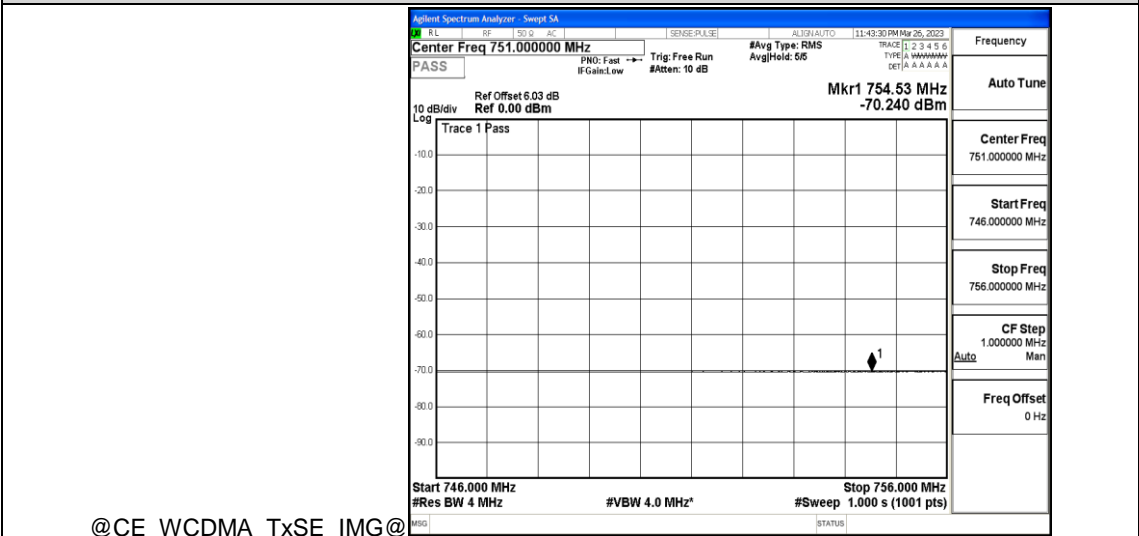
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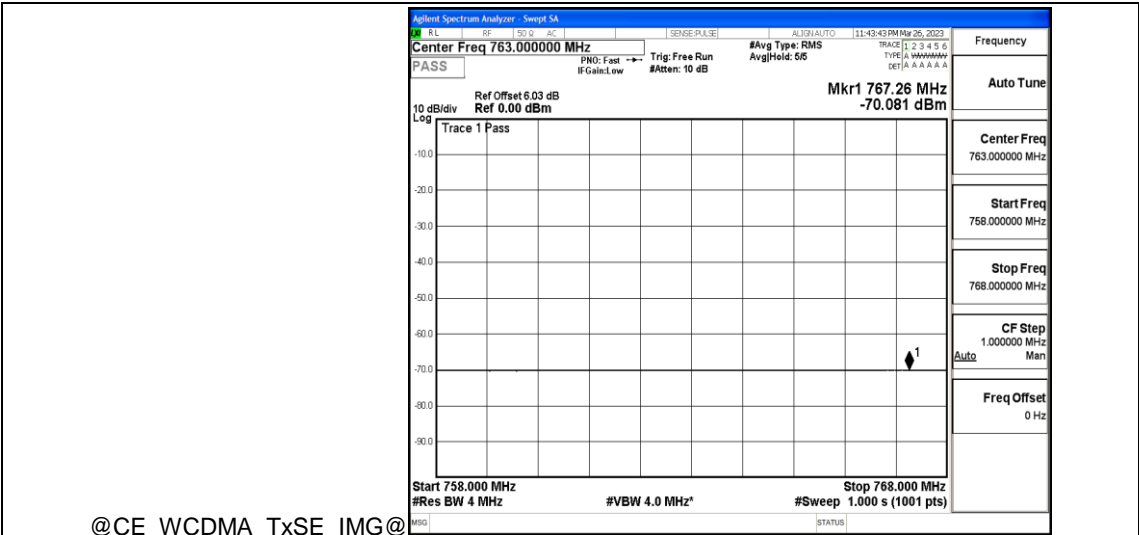
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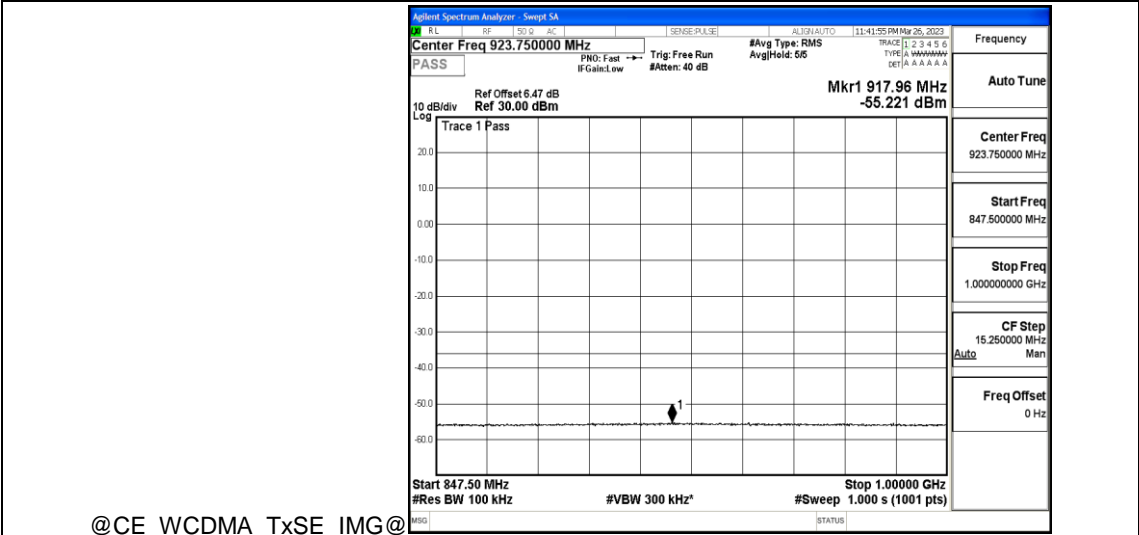
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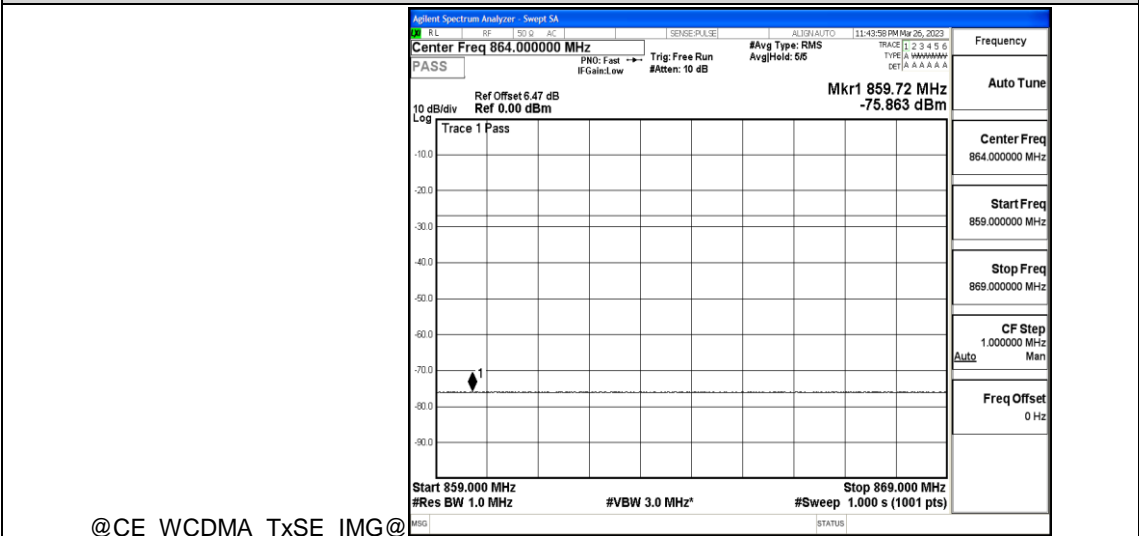
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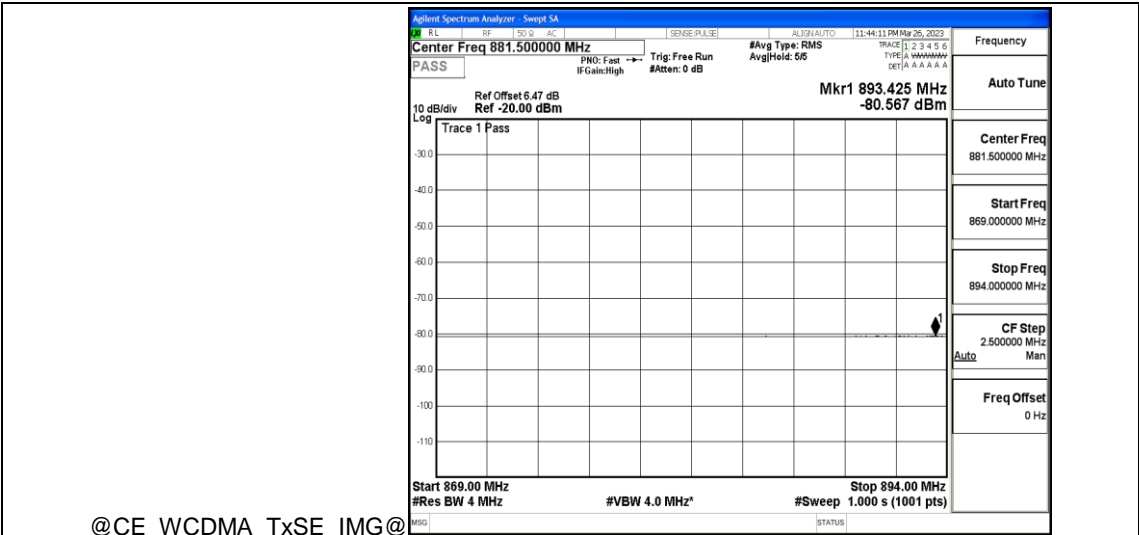


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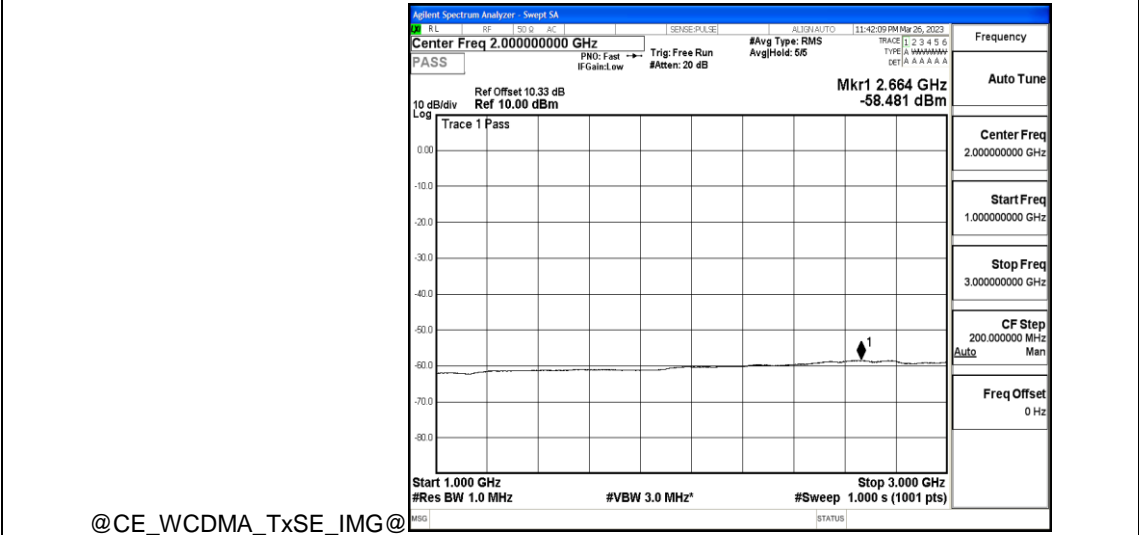
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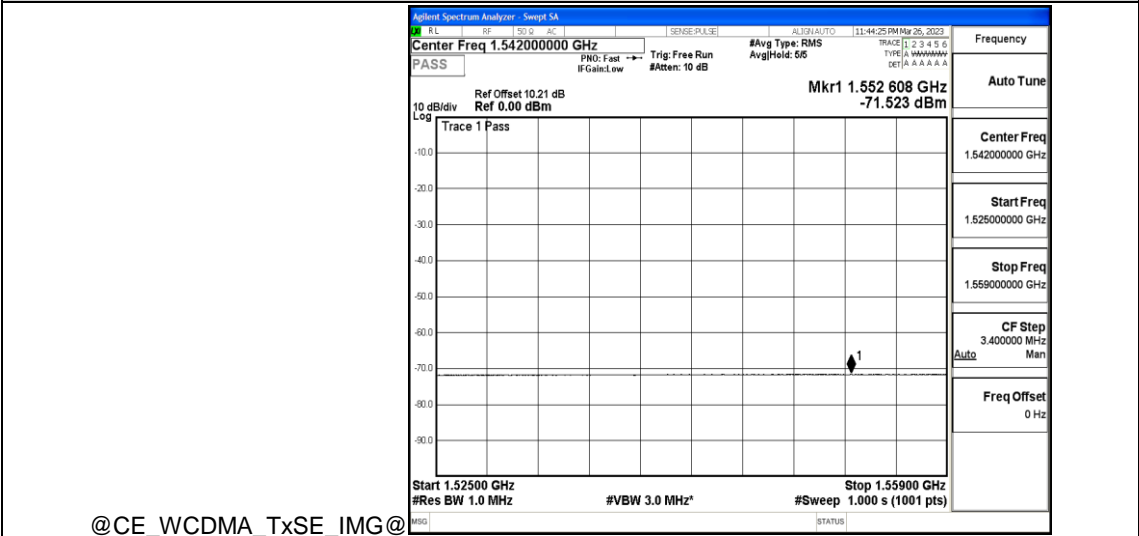
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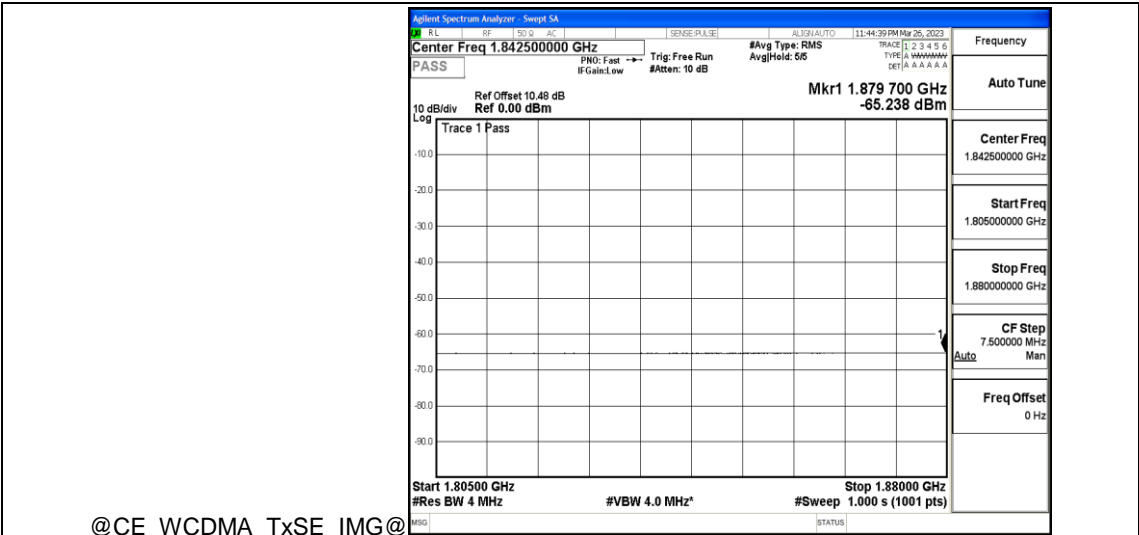
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@CE\_WCDMA\_TxSE\_IMG@Band5-4175-1525~1559MHz-1000

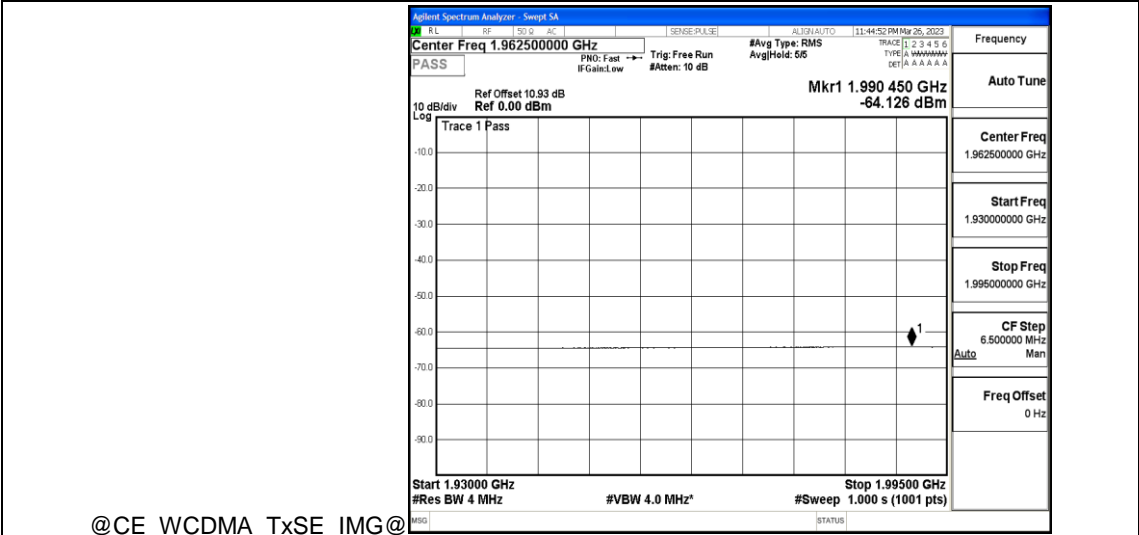


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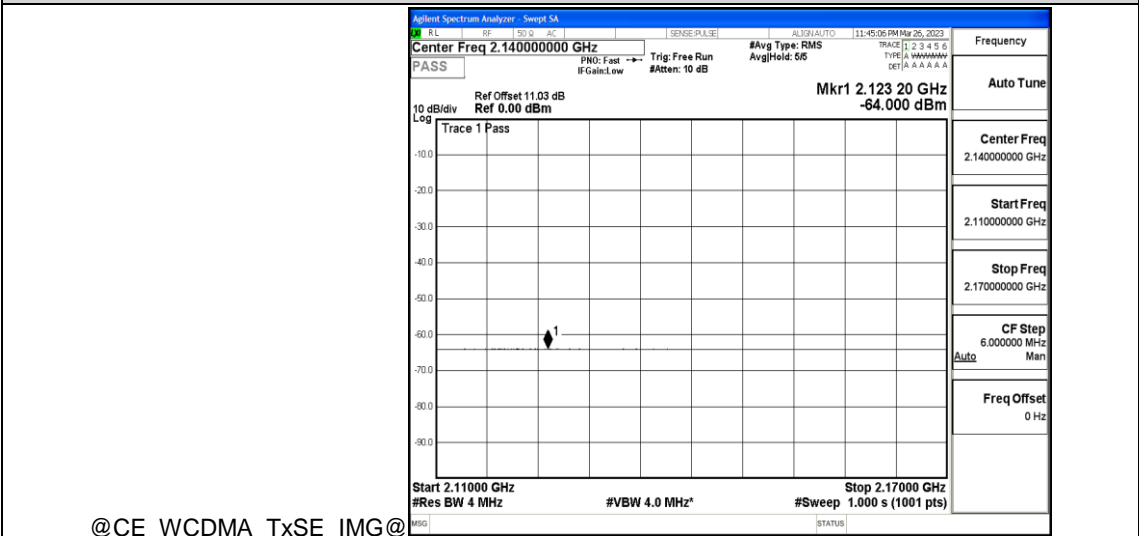
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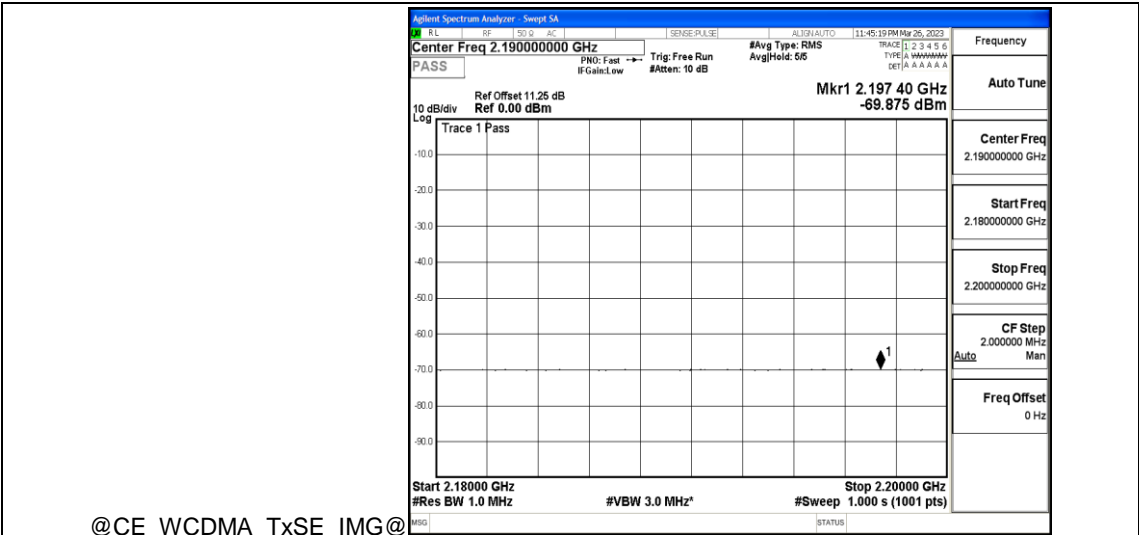
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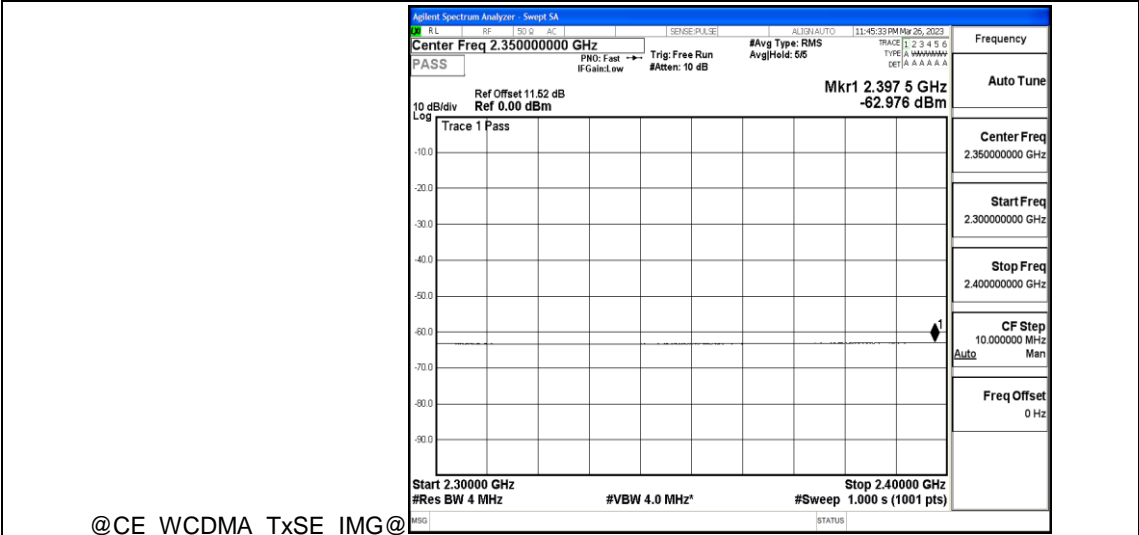
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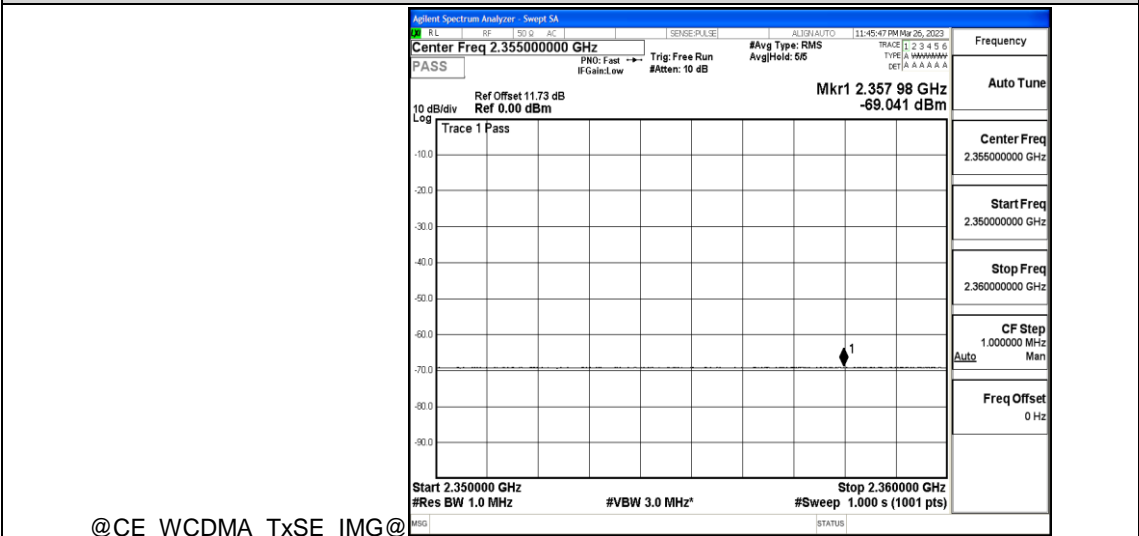
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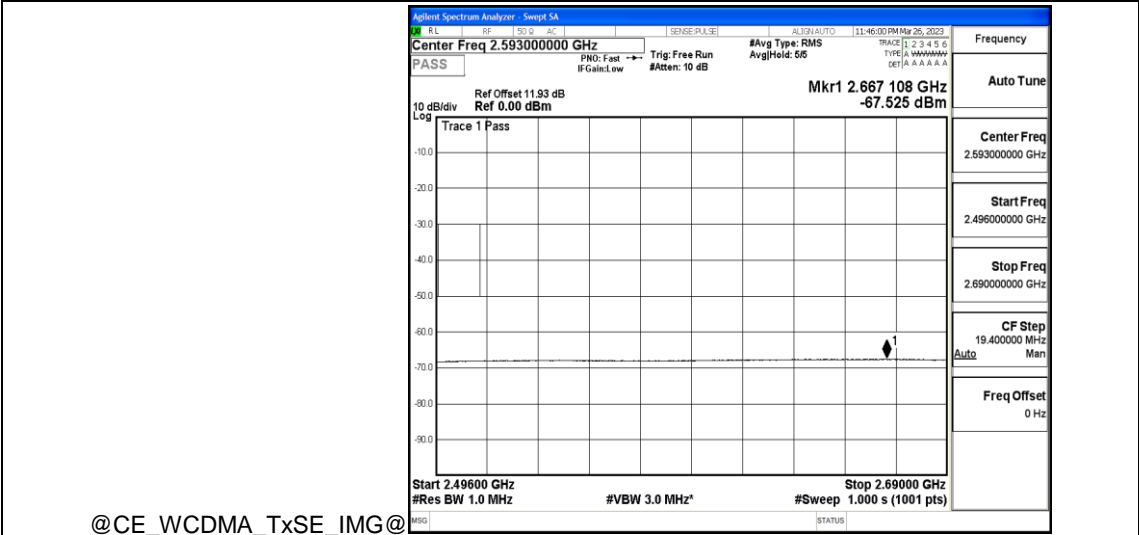
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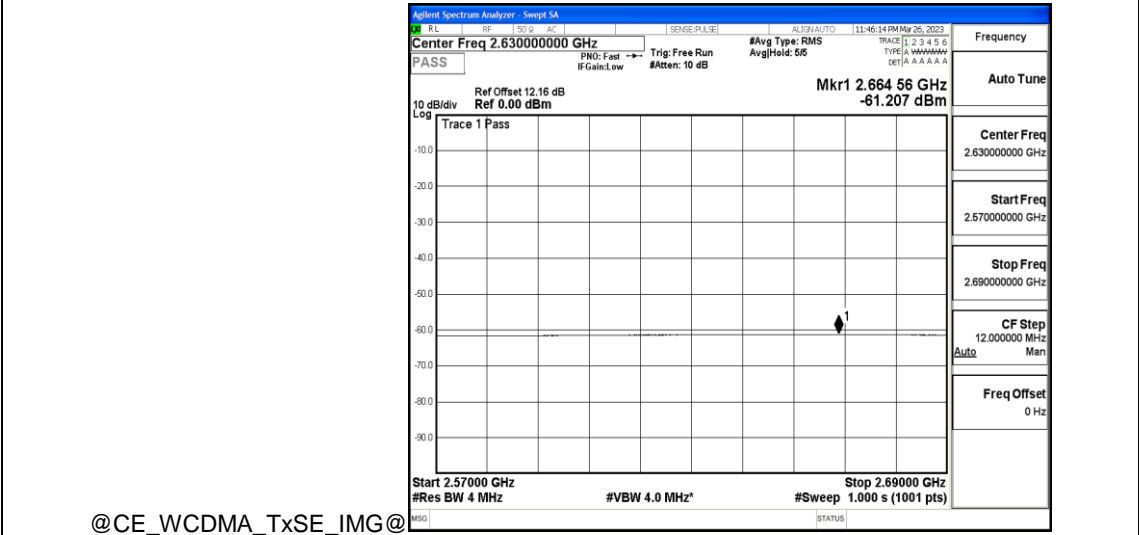
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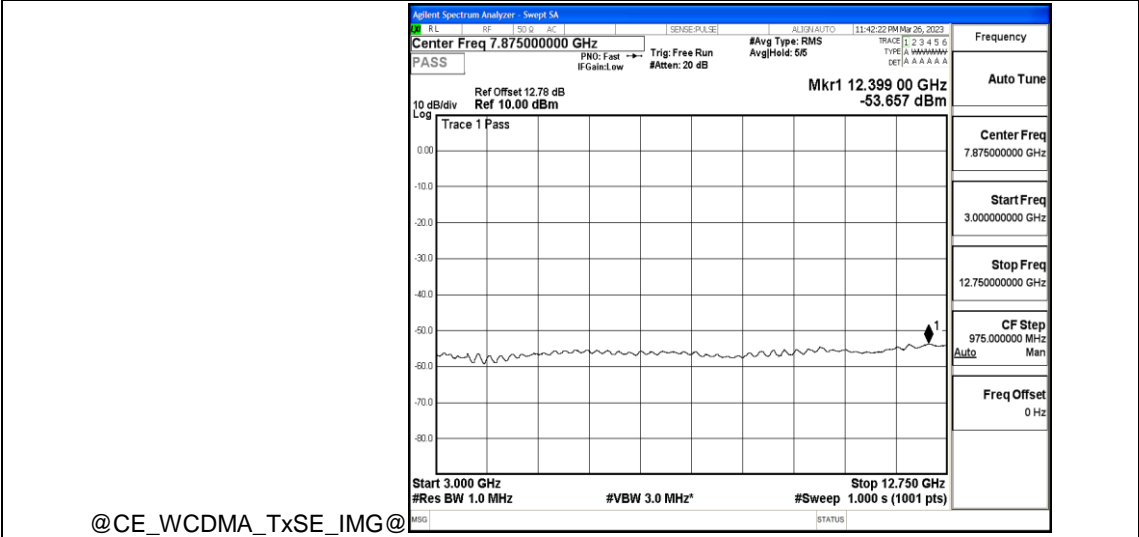
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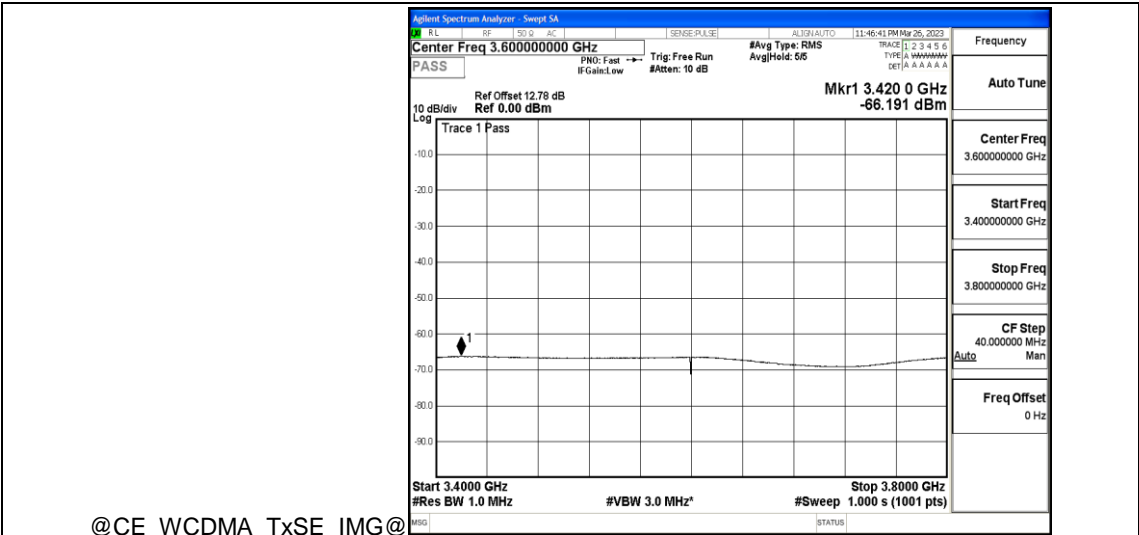
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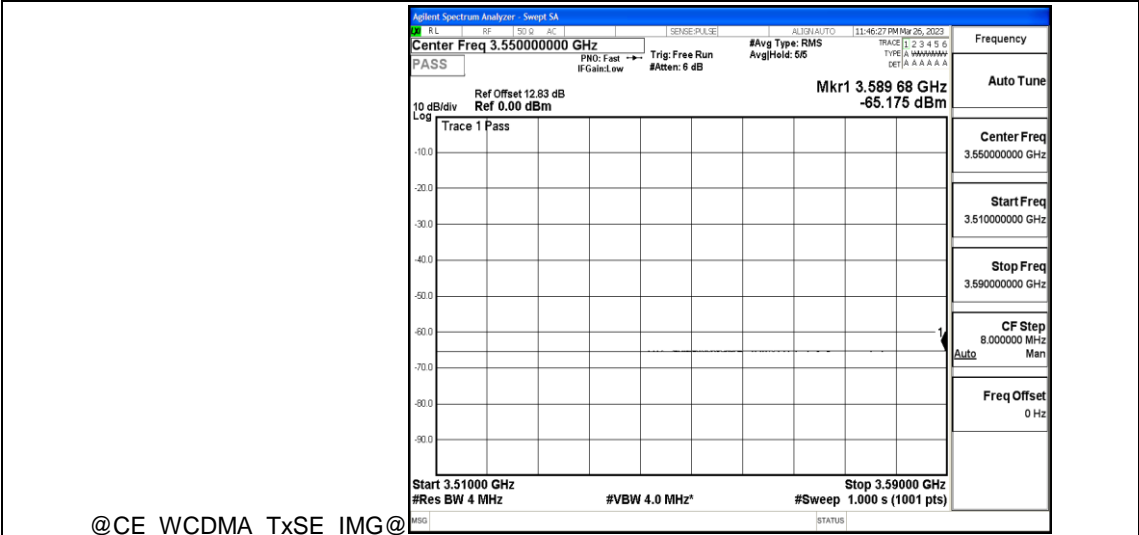
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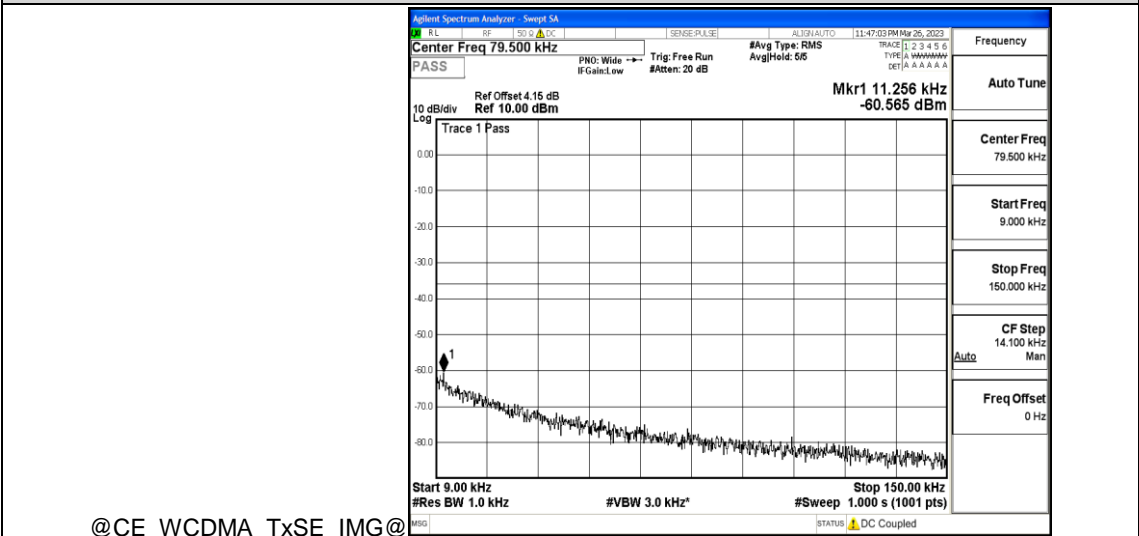
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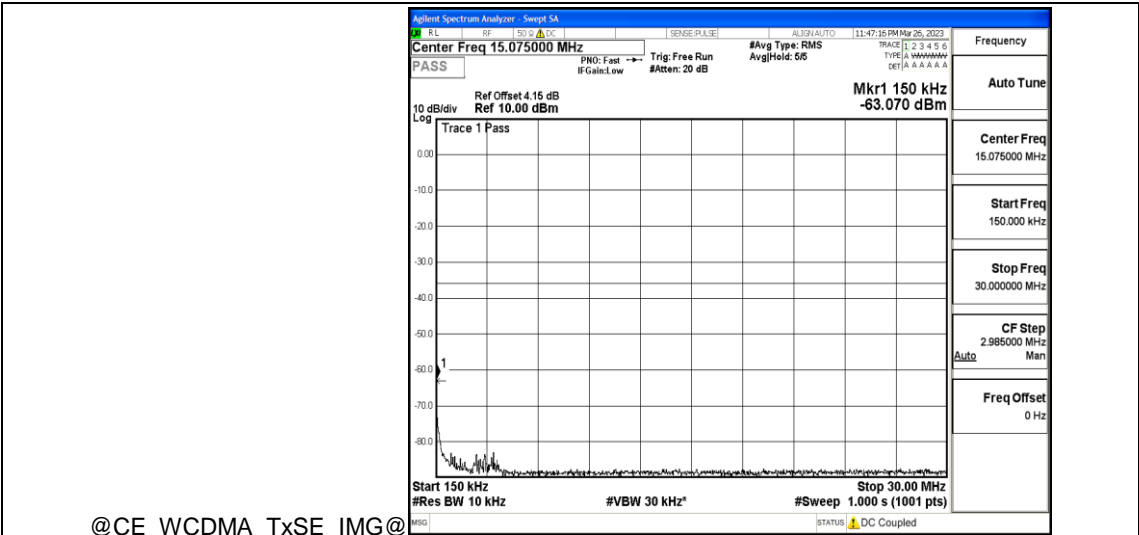
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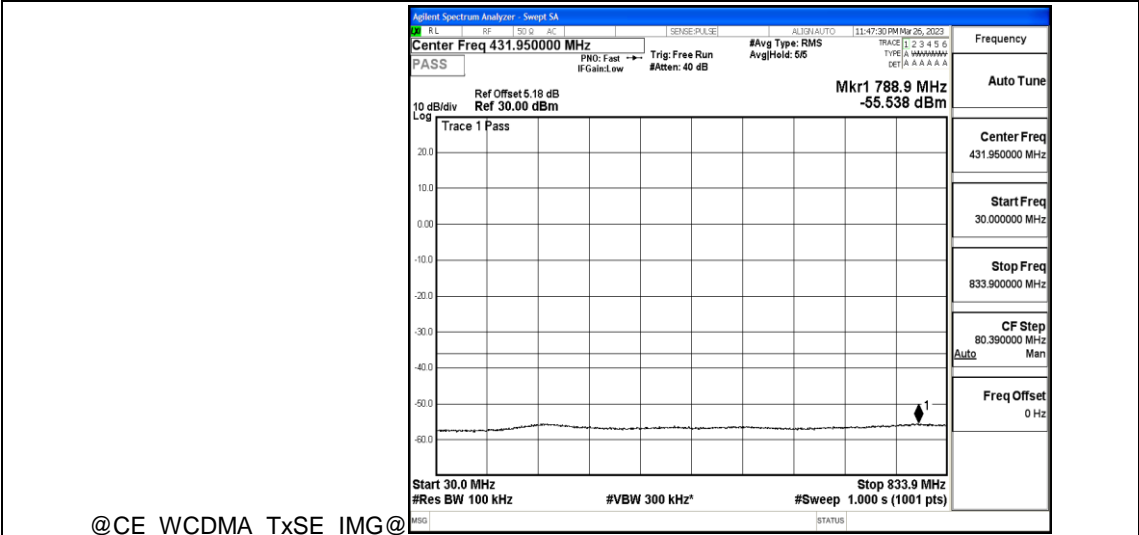


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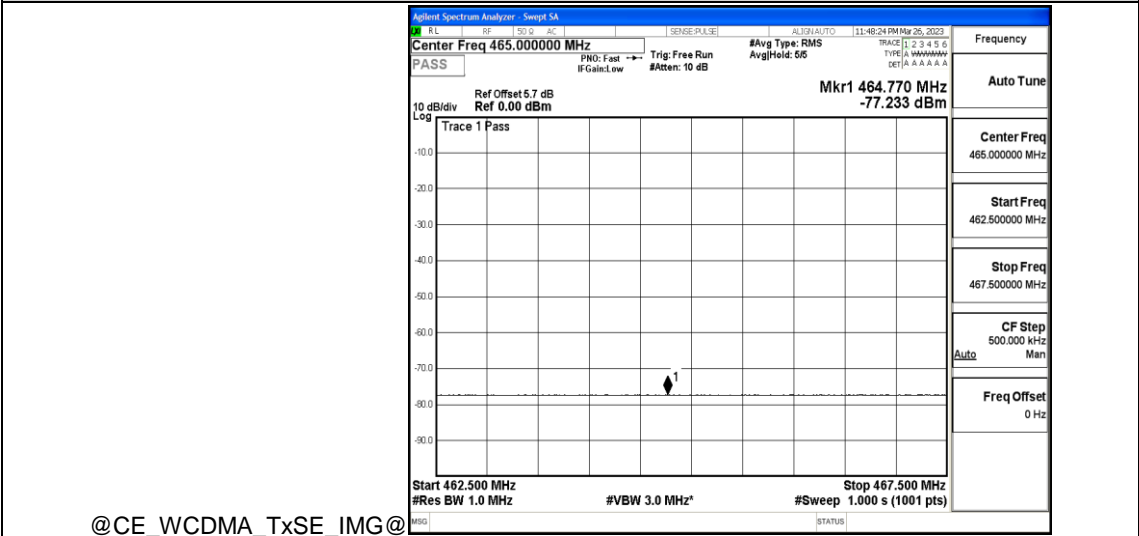
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@CE\_WCDMA\_TxSE\_IMG@Band5-4232-30~833.9MHz-100



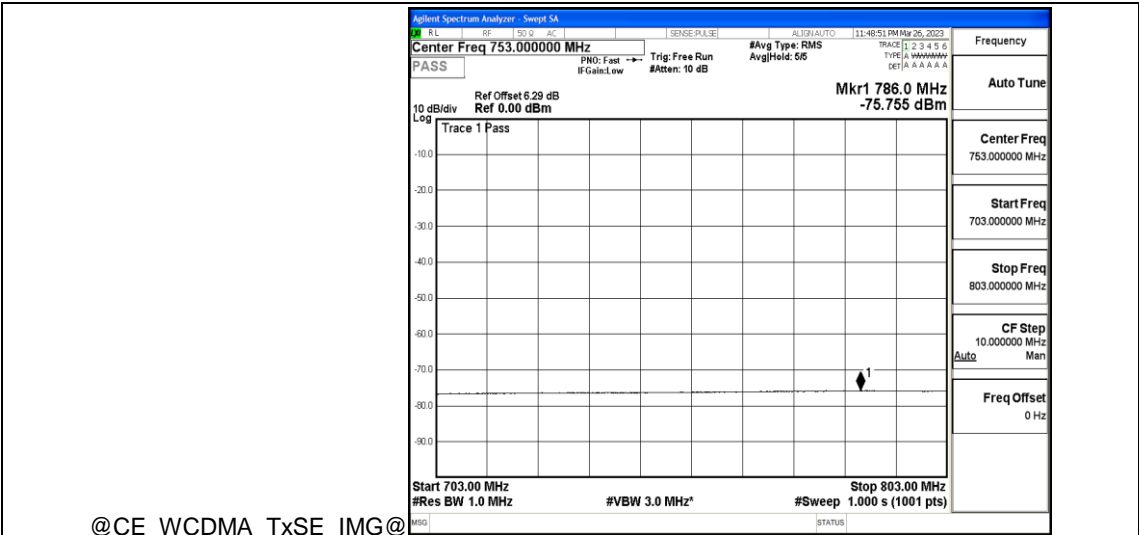
@CE\_WCDMA\_TxSE\_IMG@

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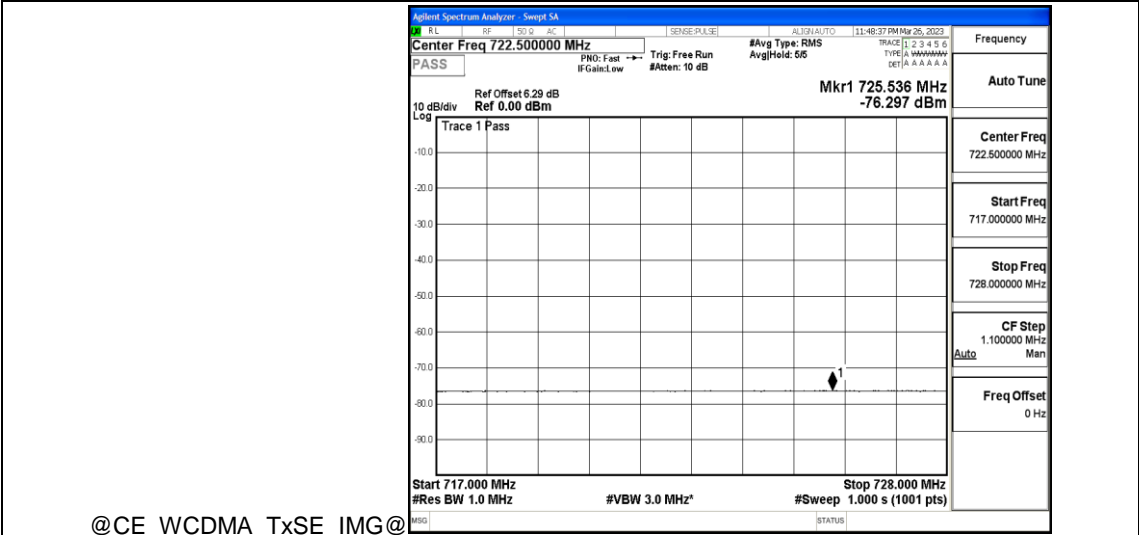


@CE\_WCDMA\_TxSE\_IMG@

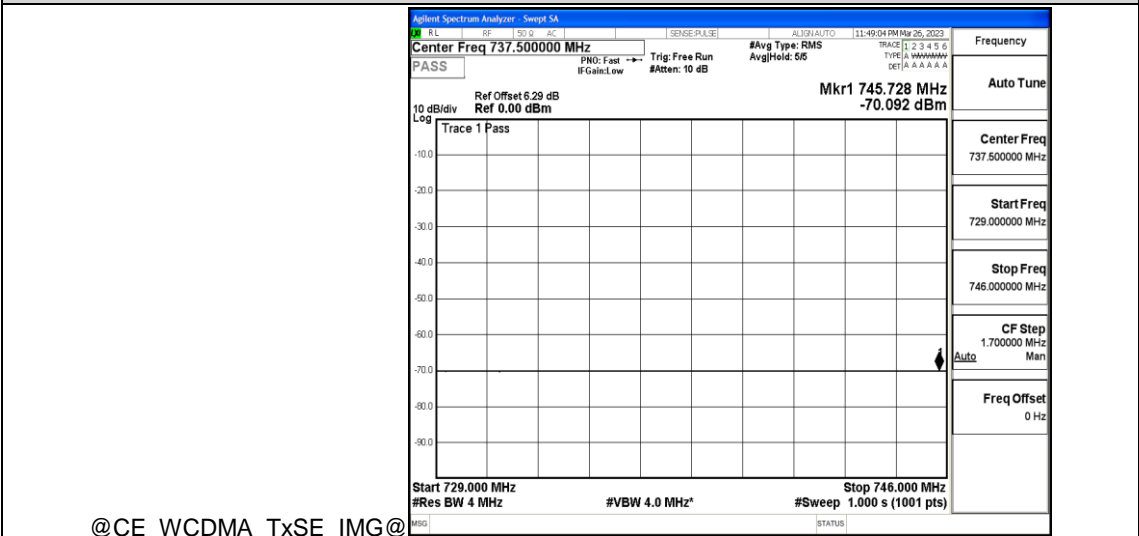
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@CE\_WCDMA\_TxSE\_IMG@Band5-4232-717~728MHz-1000

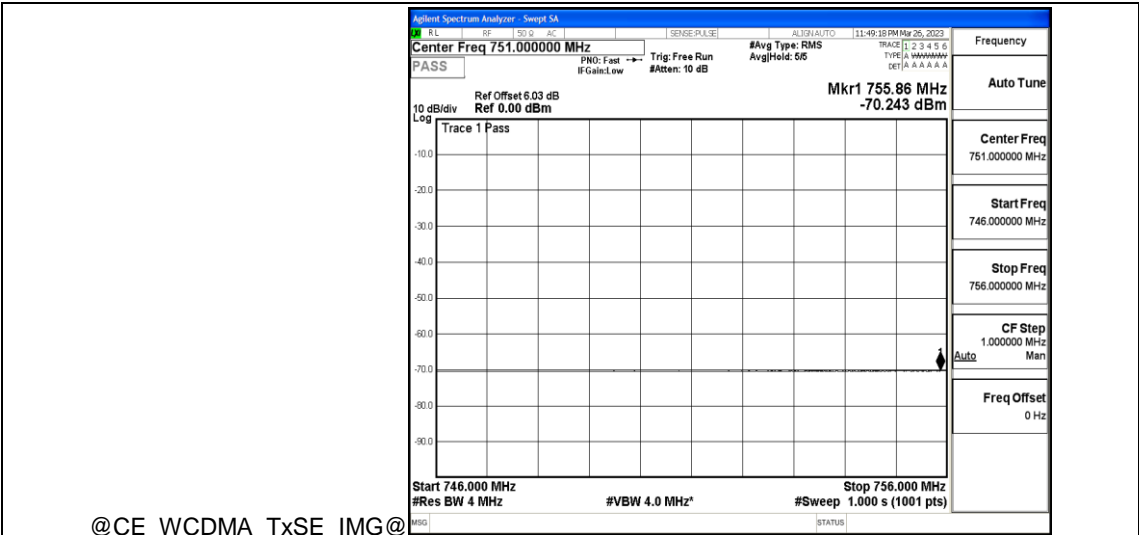


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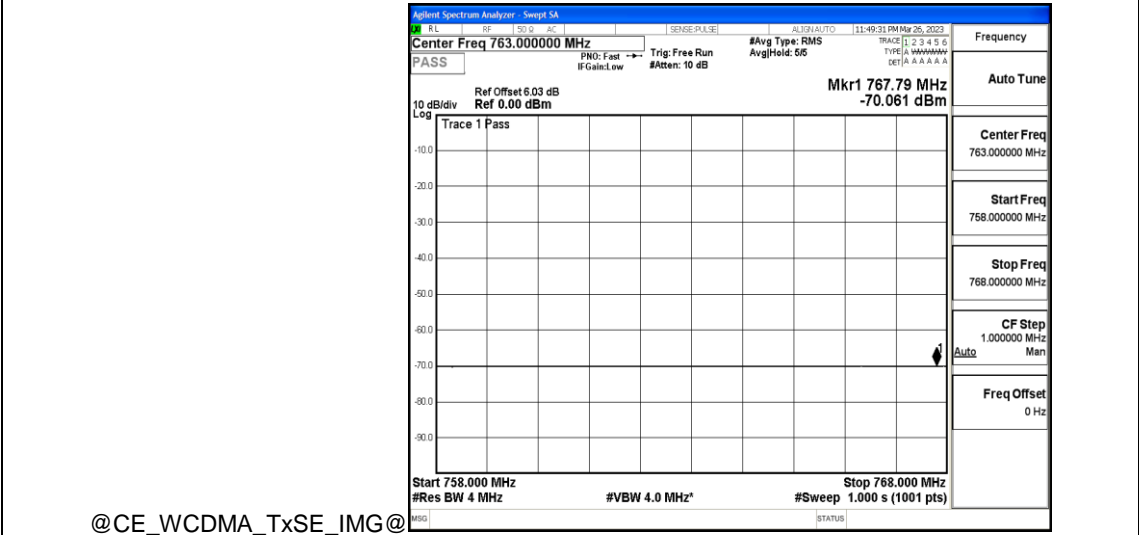


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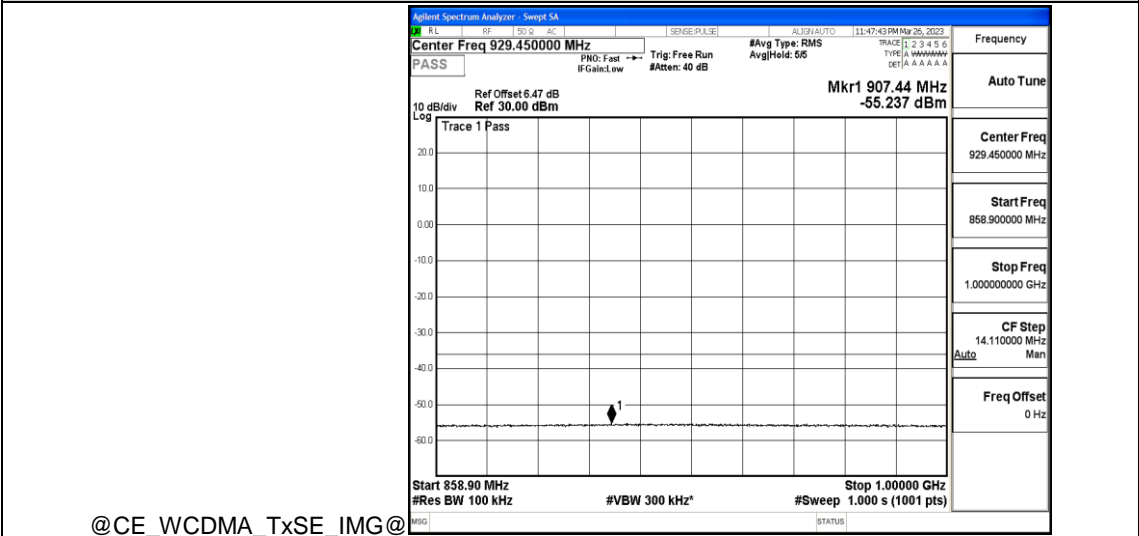




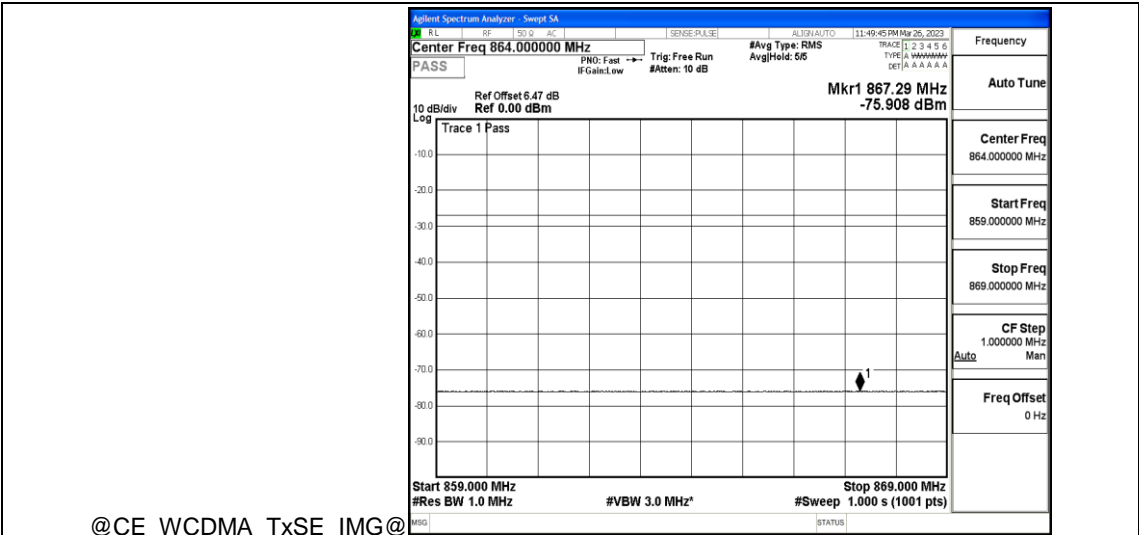
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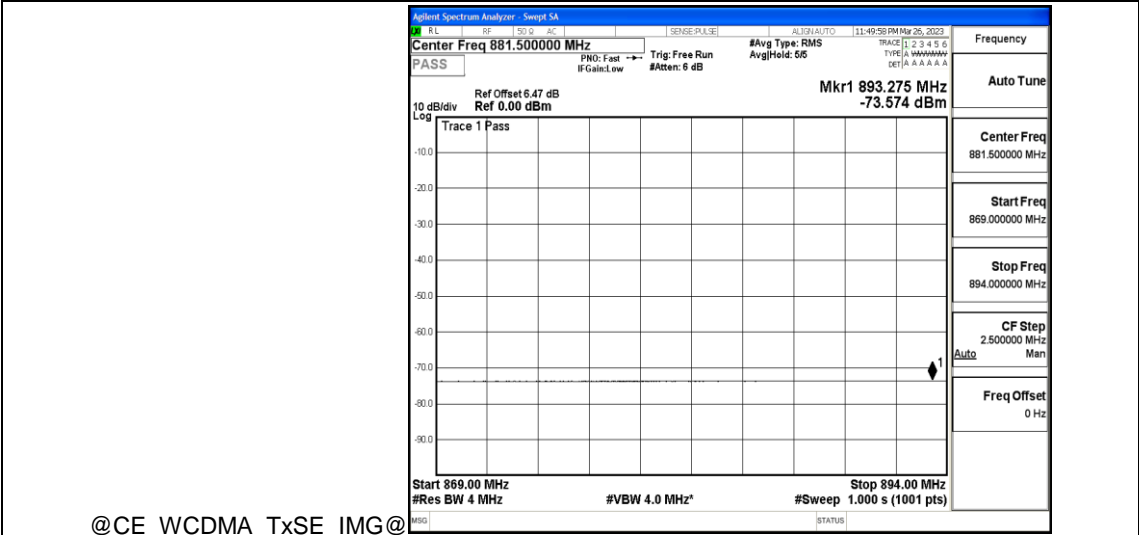
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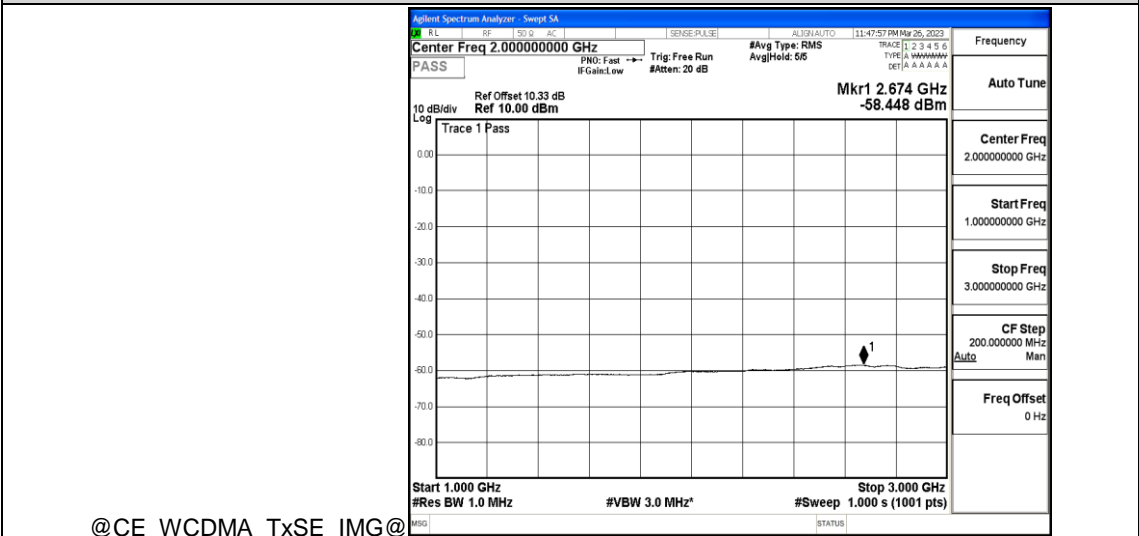
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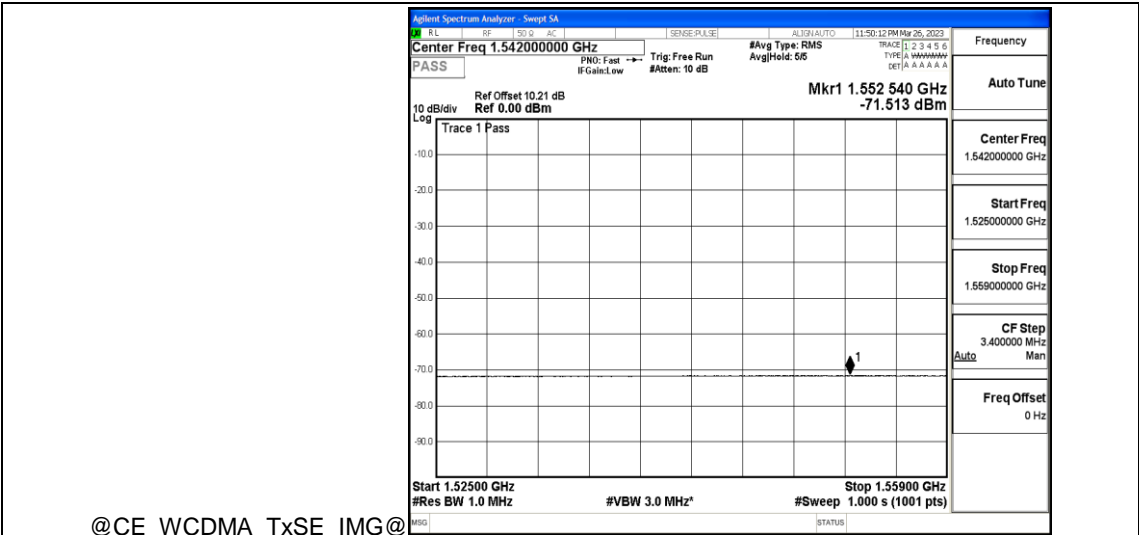
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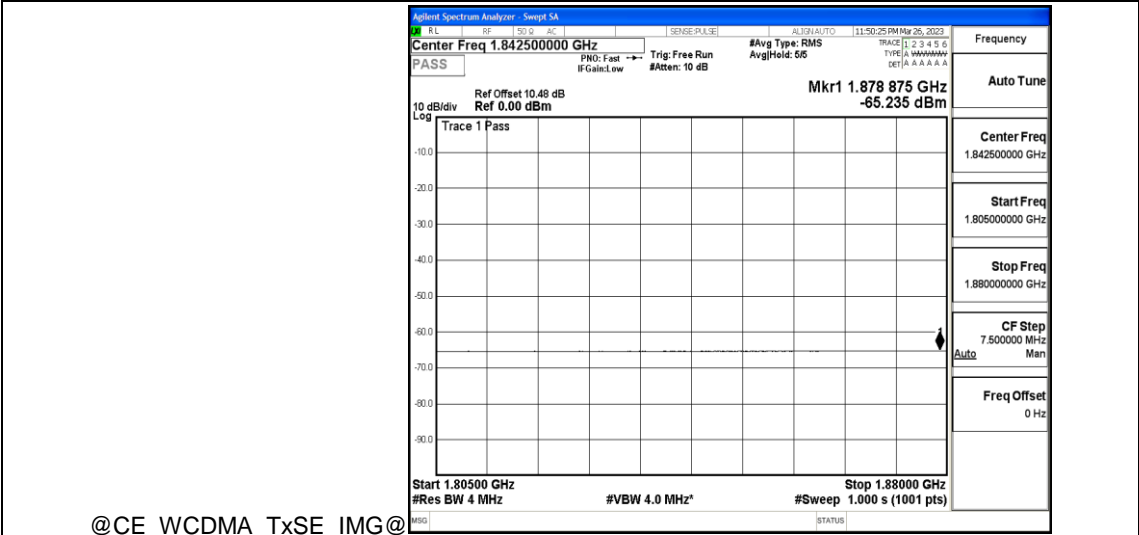
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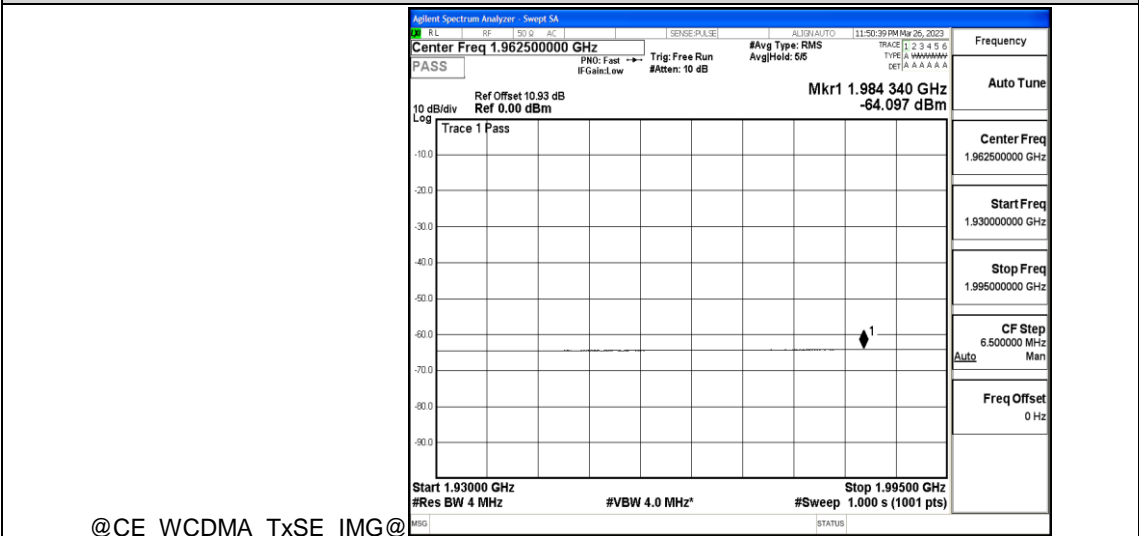
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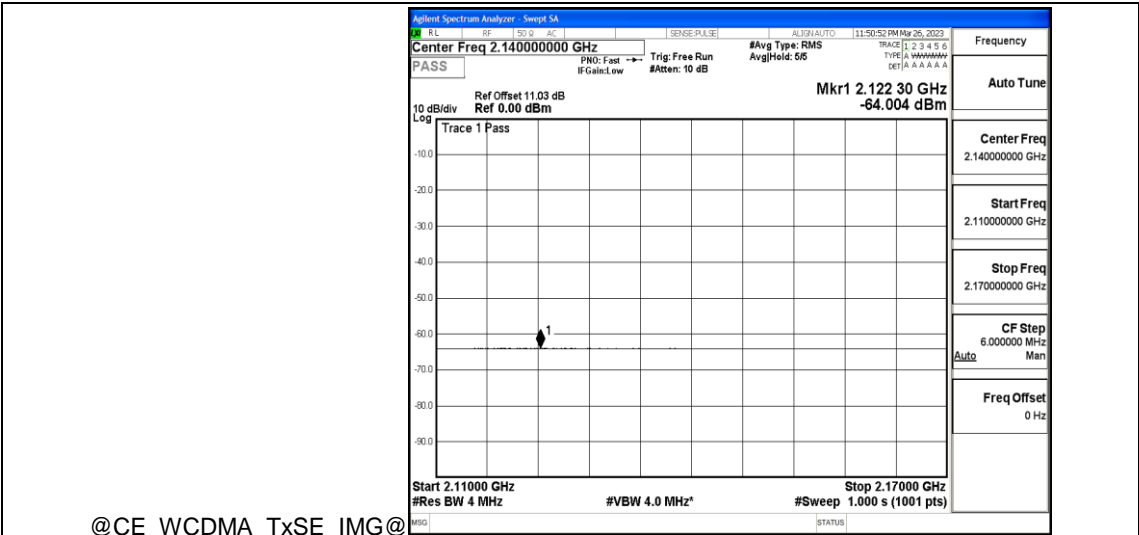
@CE\_WCDMA\_TxSE\_IMG@Band5-4232-1805~1880MHz-3840



@CE\_WCDMA\_TxSE\_IMG@Band5-4232-1930~1995MHz-3840

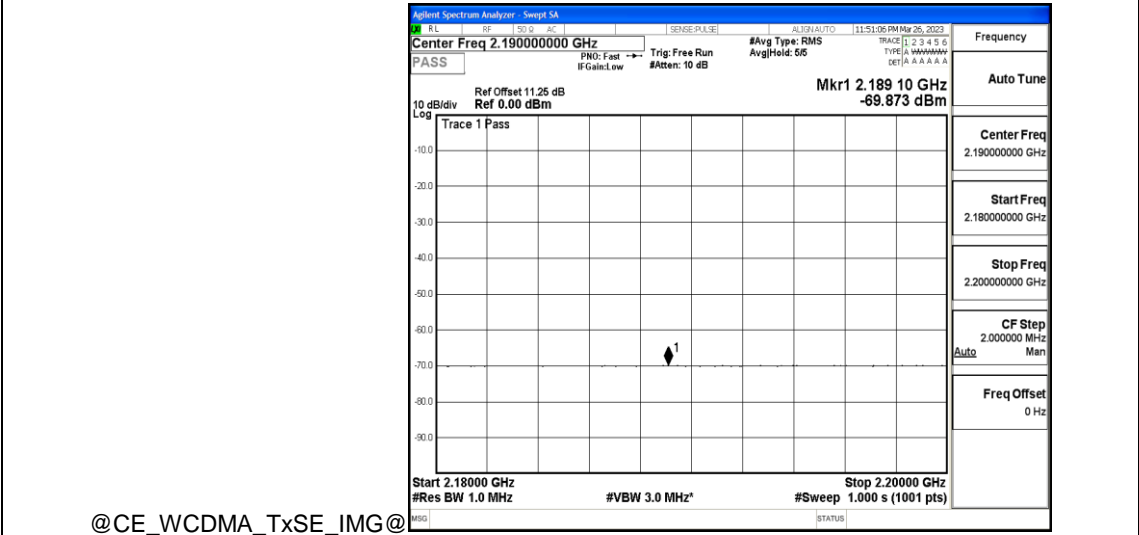


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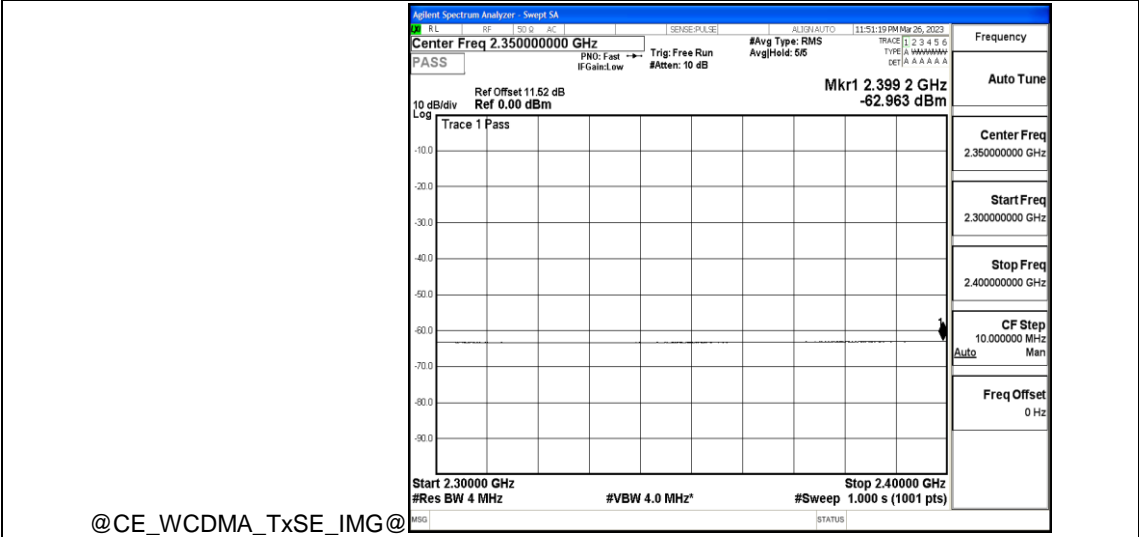
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@CE\_WCDMA\_TxSE\_IMG@Band5-4232-2180~2200MHz-1000



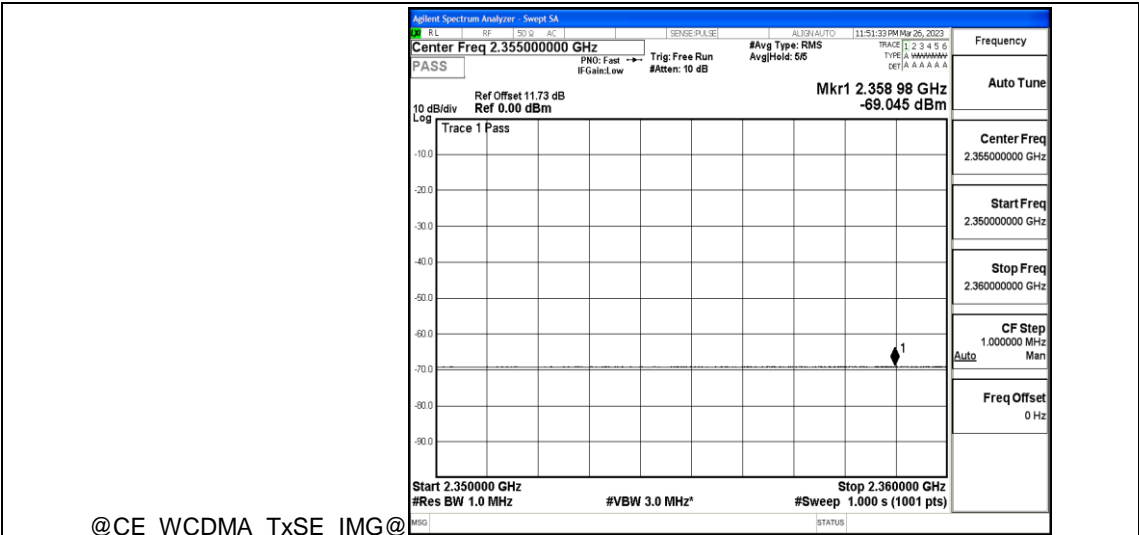
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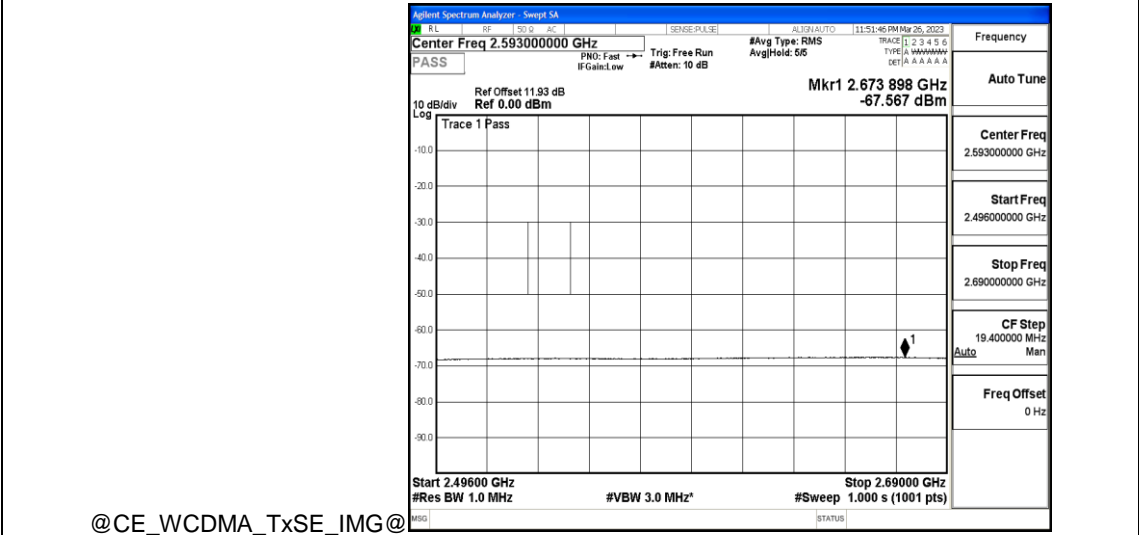
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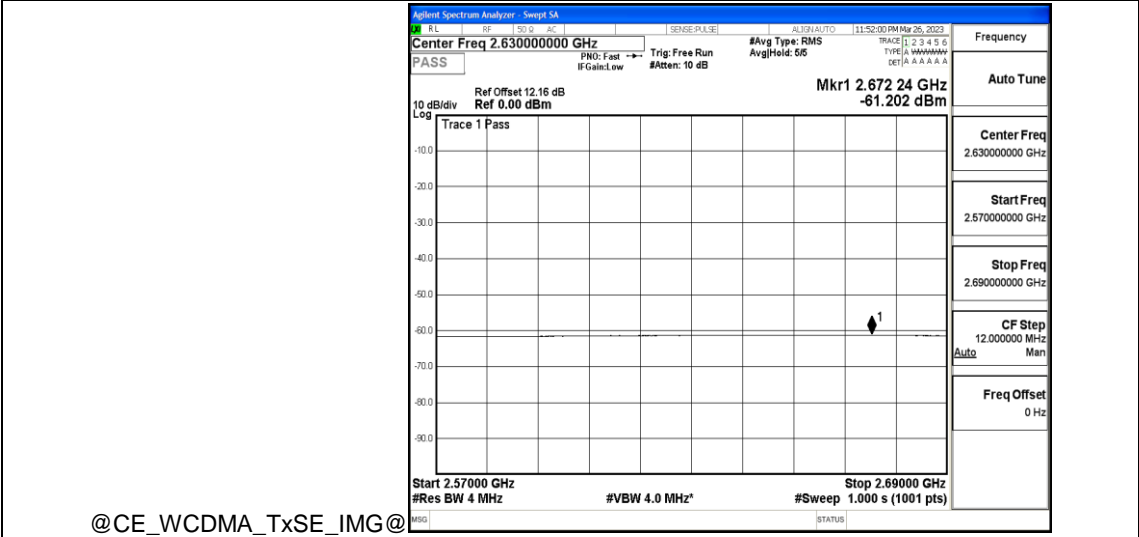
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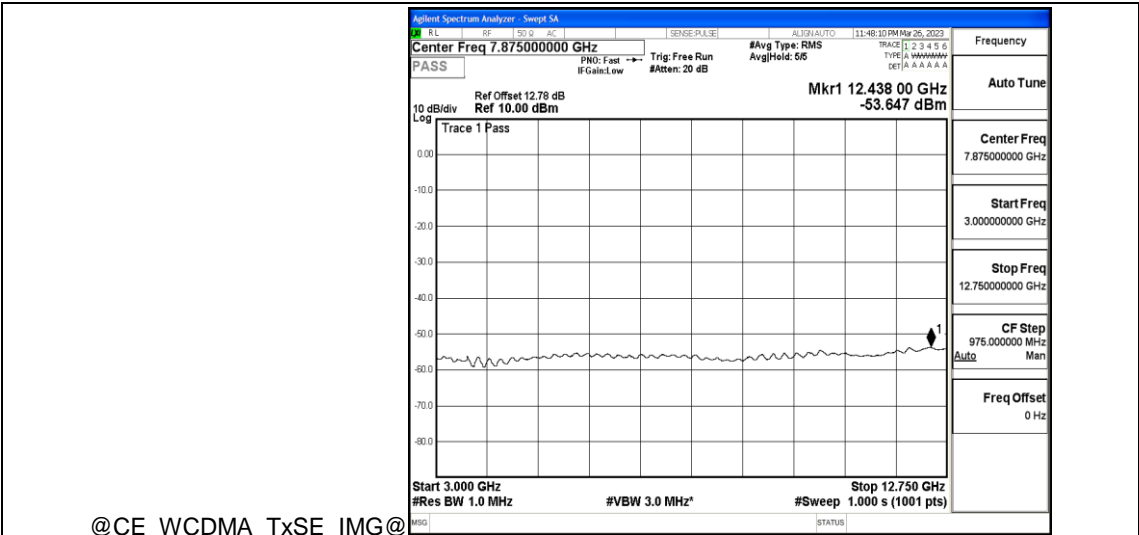
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@CE\_WCDMA\_TxSE\_IMG@Band5-4232-2570~2690MHz-3840

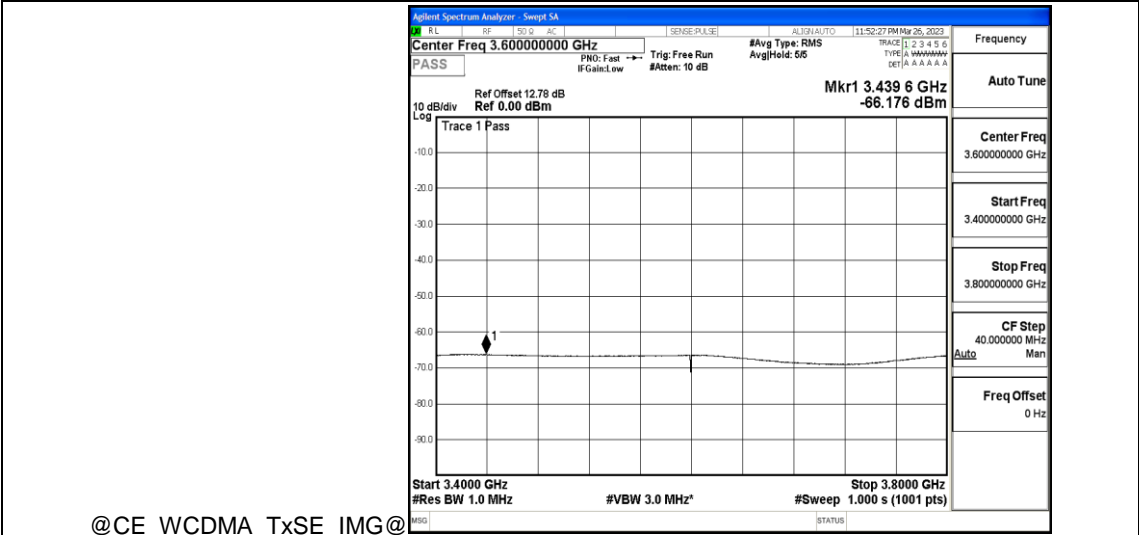


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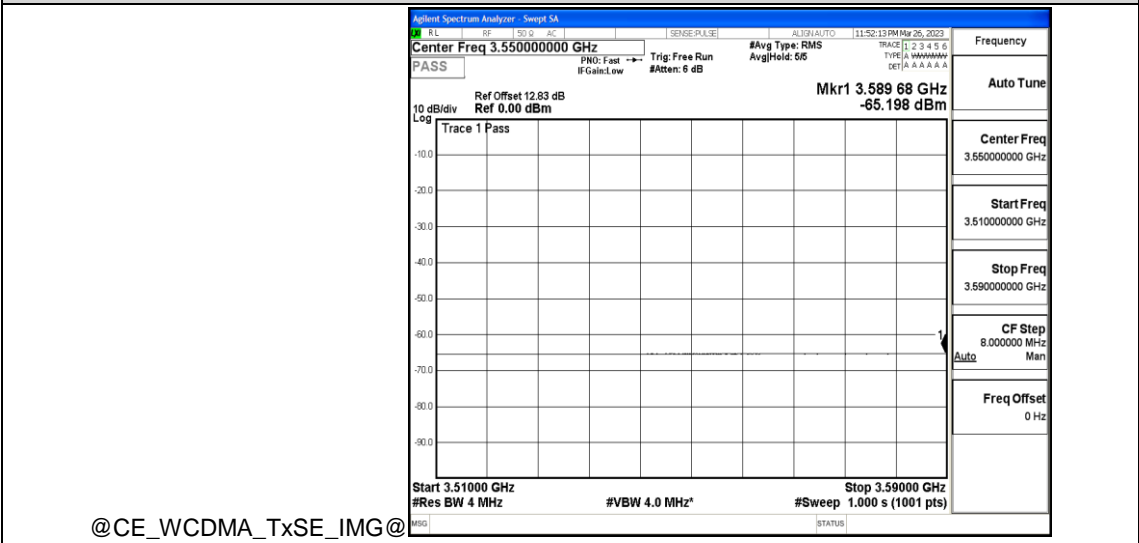
@CE\_WCDMA\_TxSE\_IMG@Band5-4232-3000~12750MHz-1000



@CE\_WCDMA\_TxSE\_IMG@Band5-4232-3400~3800MHz-1000



@CE\_WCDMA\_TxSE\_IMG@Band5-4232-3510~3590MHz-3840







## Appendix F: Receiver spurious emissions

### Test Result

Condition	Band	$\hat{I}_{or}(\text{dBm})$	Result(%)	Limit((%))	Verdict
NTNV	Band5	-106.0	0.00	0.1	PASS
NTNV	Band5	-106.0	0.00	0.1	PASS
NTNV	Band5	-106.0	0.00	0.1	PASS



## Appendix G: Receiver Reference Sensitivity level

### Test Result

Condition	Band	Channel	$\hat{I}_{or}$ (dBm)	Result(%)	Limit((%)	Verdict
@CE_WCDMA_Rx_RSL@						
TestCondition	BandName	Channel	REF_ $\hat{I}_{or}$	Result	Limit	Verdict

## Appendix H: Receiver Adjacent Channel Selectivity (ACS)

### Test Result

Band	CaseNo	Ioac (dBm)	Result (%)	Limit (%)	Verdict
Band5	Case1	-52	0.00	$\leq 0.1$	PASS
Band5	Case1	-52	0.00	$\leq 0.1$	PASS
Band5	Case2	-25	0.00	$\leq 0.1$	PASS
Band5	Case2	-25	0.00	$\leq 0.1$	PASS

## Appendix I: Receiver blocking characteristics

### Test Result(In-band blocking)

Band	Iblocking(dBm)	Result (%)	Limit (%)	Verdict
Band5	-44	0.00	<=0.1	PASS
Band5	-56	0.00	<=0.1	PASS
Band5	-56	0.00	<=0.1	PASS
Band5	-44	0.00	<=0.1	PASS

**Test Result(Out-of-band blocking)**

Band	Range	Max.Result(%)	Limit(%)	Verdict
Band5	1	0.00	<=0.1	PASS
Band5	2	0.00	<=0.1	PASS
Band5	3	0.00	<=0.1	PASS

**Test Result(Narrow band blocking)**

Band	Iblocking(dBm)	Result (%)	Limit (%)	Verdict
Band5	-56	0.00	<=0.1	PASS
Band5	-56	0.00	<=0.1	PASS

**Appendix J: Receiver intermodulation characteristics**

**Test Result**

Band	loac1 (dBm)	Fuw2 (MHz)	loac2 (dBm)	Result (%)	Limit (%)	Verdict
Band5	-46	2120	-46	0.00	<=0.1	PASS
Band5	-46	2160	-46	0.00	<=0.1	PASS



## Appendix K: Out-of-synchronization handling of output power

### Test Result

Band	Result(dBm)	Limit(dBm)	Result	Limit	Verdict
Band5	-50.49	-50	OFF	OFF(5 to 5.2)	PASS

## Test Graphs

@CE\_WCDMA\_OOS\_IMG@