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Appendix B.9

LTE Band 17



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Effective (Isotropic) Radiated Power Output Data**Test Result**

Band	Bandwidth	Modulation	Channel	RB Configuration	Result (dBm)	ERP (dBm)	Limit(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	22.56	20.56	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.69	20.69	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.60	20.60	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.70	19.70	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.57	20.57	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.69	20.69	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.55	20.55	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.64	19.64	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.58	20.58	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.73	20.73	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.69	20.69	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.59	19.59	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.64	19.64	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.72	19.72	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.65	19.65	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.67	18.67	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.78	19.78	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.85	19.85	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.77	19.77	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.60	18.60	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.60	19.60	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.72	19.72	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.70	19.70	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.61	18.61	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.61	20.61	34.77	PASS

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Band17	10MHz	QPSK	23780	1RB#24	22.61	20.61	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.61	20.61	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.68	19.68	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.57	20.57	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.72	20.72	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.66	20.66	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.60	19.60	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.60	20.60	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.69	20.69	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.65	20.65	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.58	19.58	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	21.74	19.74	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	21.85	19.85	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.84	19.84	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	20.71	18.71	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.72	19.72	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.87	19.87	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.83	19.83	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.63	18.63	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.54	19.54	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	21.66	19.66	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.64	19.64	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	20.55	18.55	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band17	10MHz	QPSK	23780	50RB#0	5.46	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.38	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	6.16	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.18	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.18	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	7.08	13	PASS



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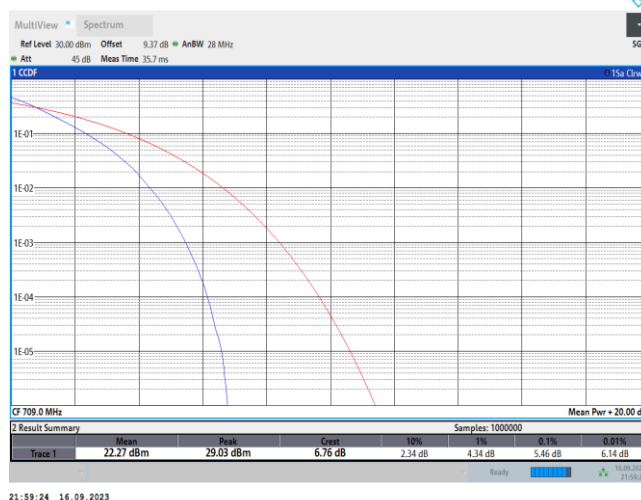
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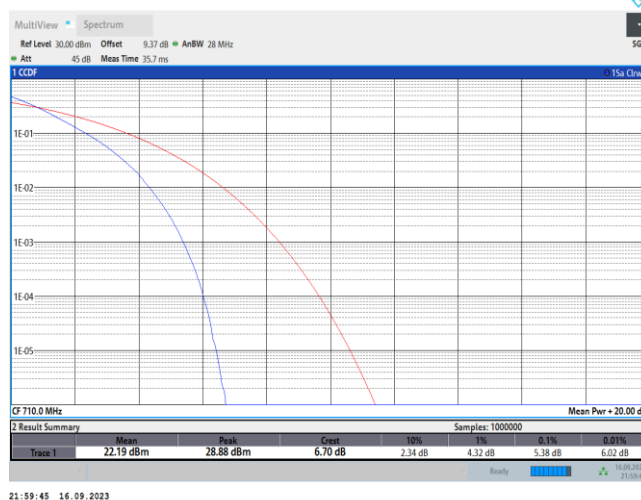
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Test Graphs

Band17-10MHz-QPSK-23780-50RB#0



Band17-10MHz-QPSK-23790-50RB#0



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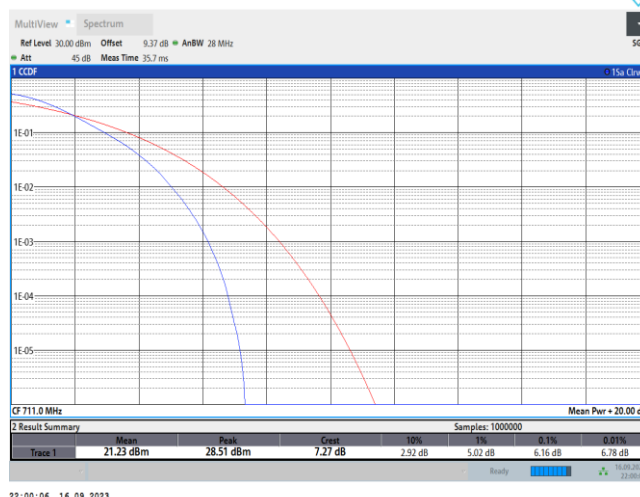
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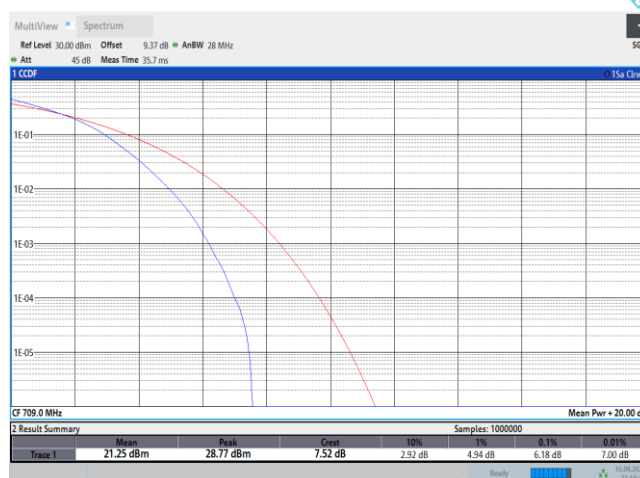
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Band17-10MHz-QPSK-23800-50RB#0



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Band17-10MHz-16QAM-23780-50RB#0



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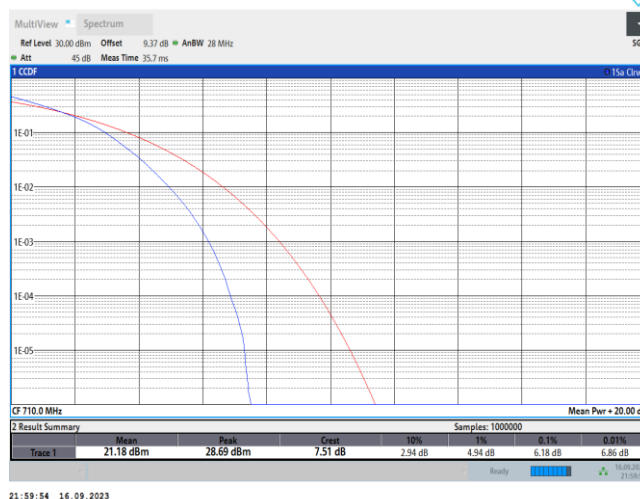
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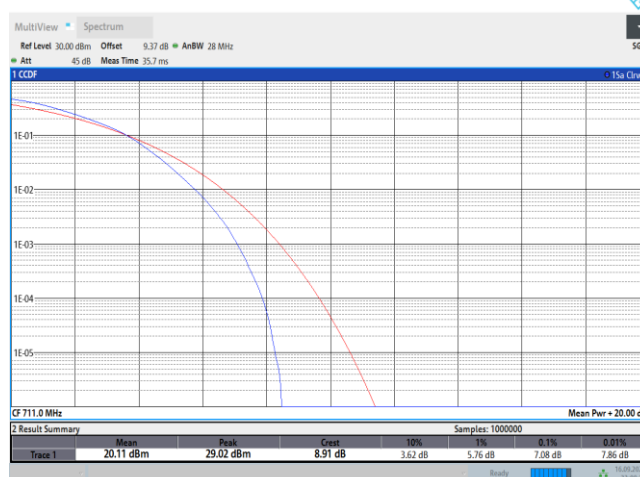
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Band17-10MHz-16QAM-23790-50RB#0



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Band17-10MHz-16QAM-23800-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.496	4.92	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.506	4.93	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.481	5.18	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.482	4.99	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.489	5.00	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.481	4.97	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.961	9.50	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.944	9.67	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.94	9.67	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.924	9.63	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.922	9.67	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.919	9.63	PASS



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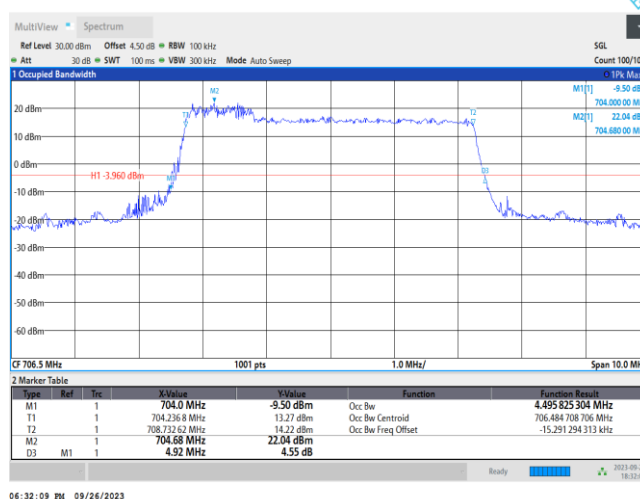
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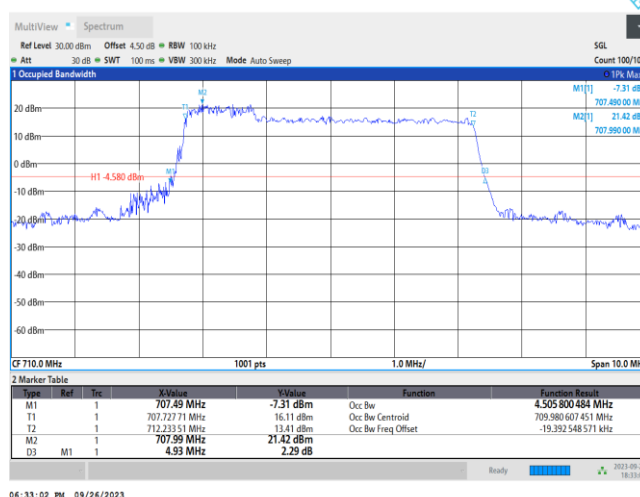
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Test Graphs

Band17-5MHz-QPSK-23755-25RB#0



Band17-5MHz-QPSK-23790-25RB#0



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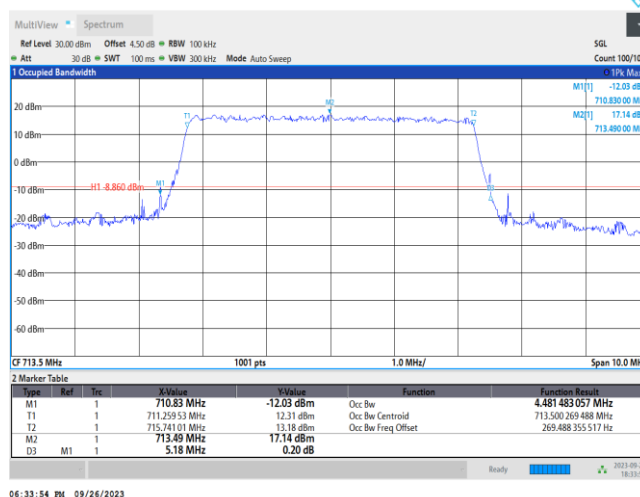
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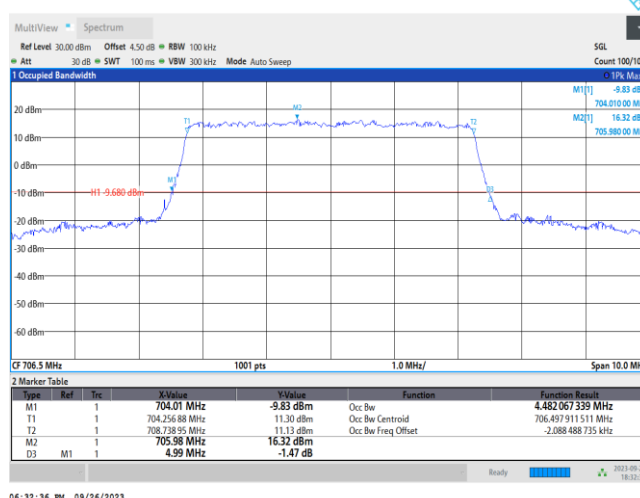
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Band17-5MHz-QPSK-23825-25RB#0



Band17-5MHz-16QAM-23755-25RB#0



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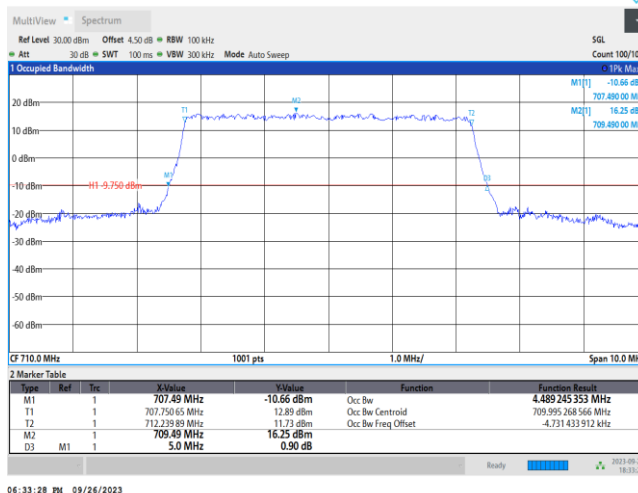
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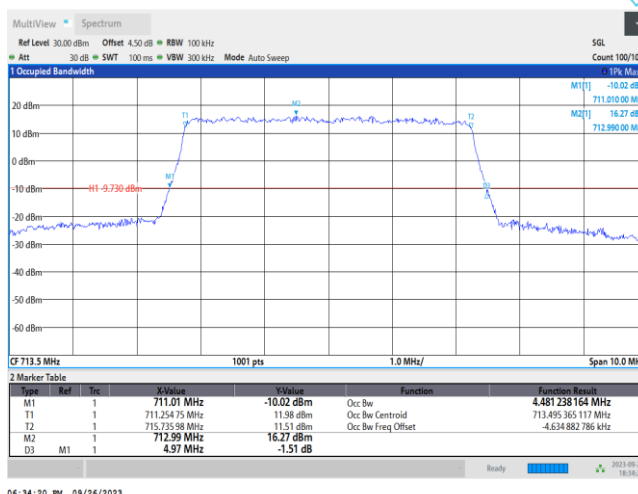
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Band17-5MHz-16QAM-23790-25RB#0



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Band17-5MHz-16QAM-23825-25RB#0



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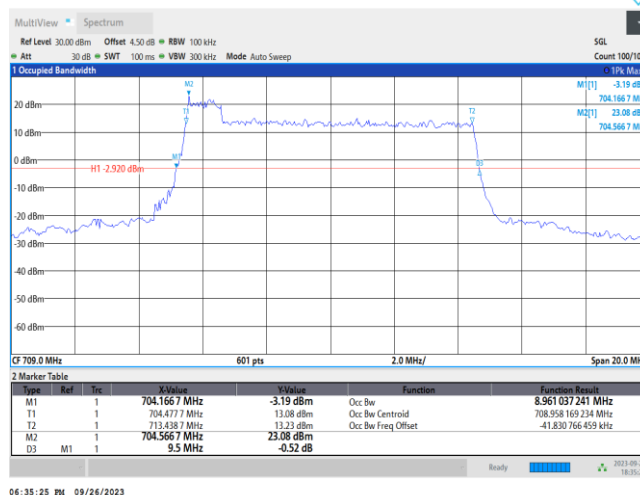
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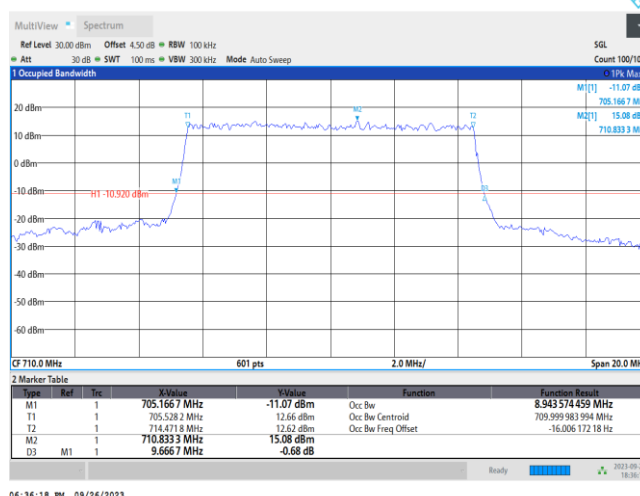
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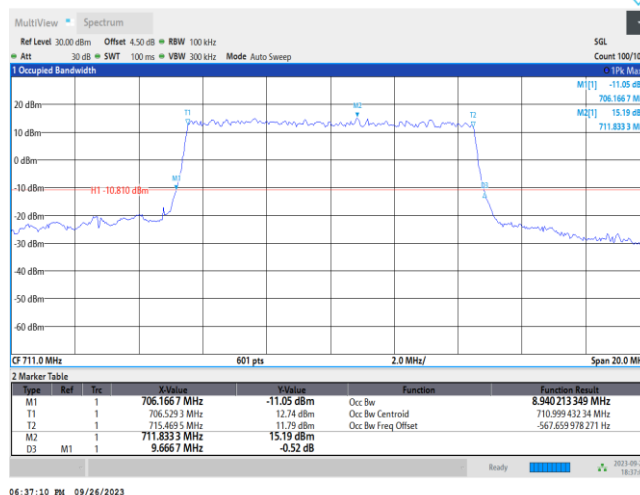
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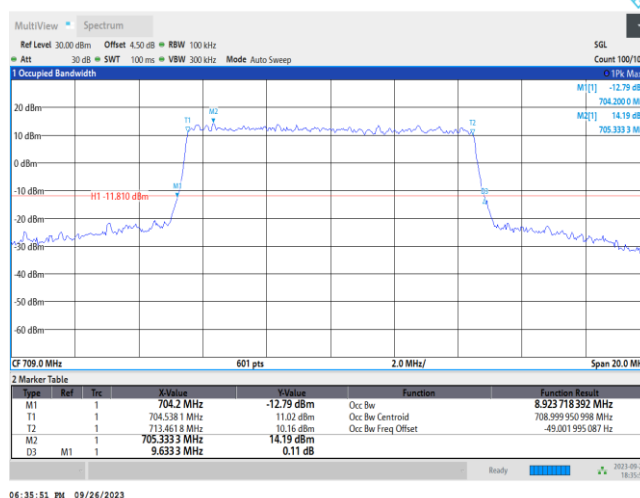
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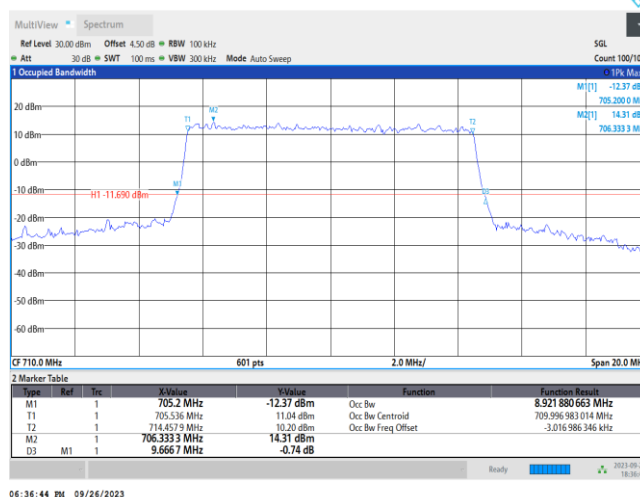
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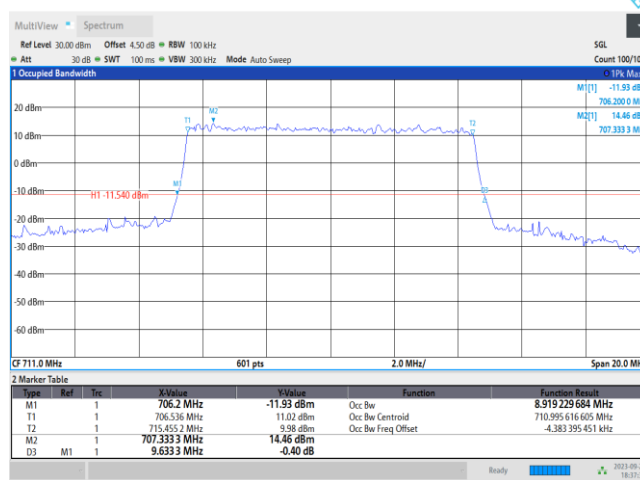
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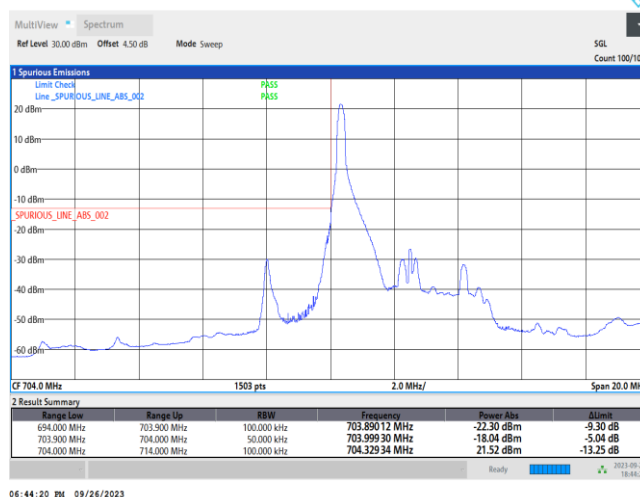
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Band Edge

Test Graphs

Band17-5MHz-QPSK-23755-1RB#0



Band17-5MHz-QPSK-23755-25RB#0

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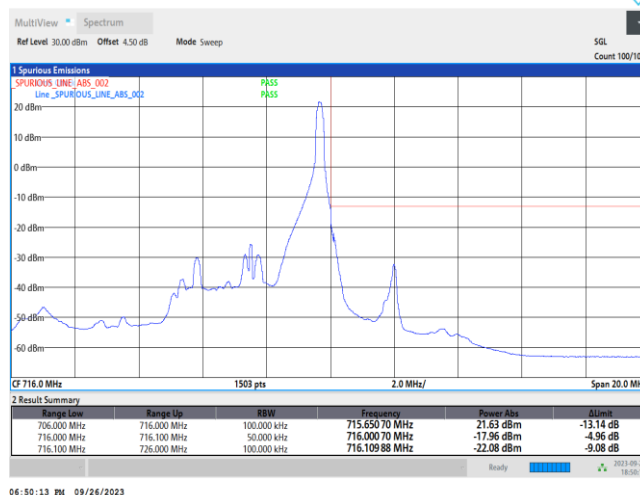
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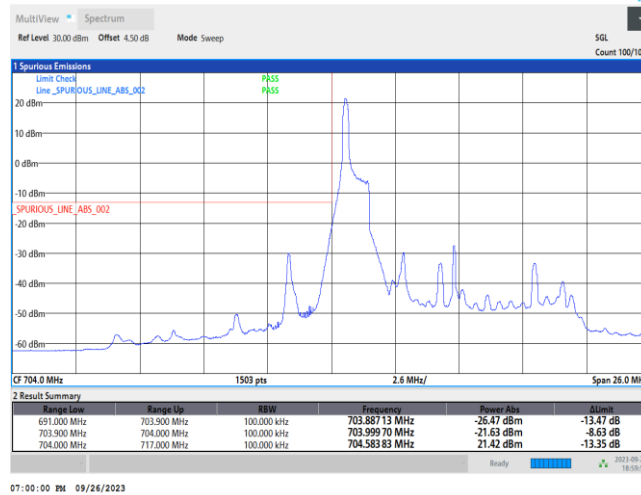
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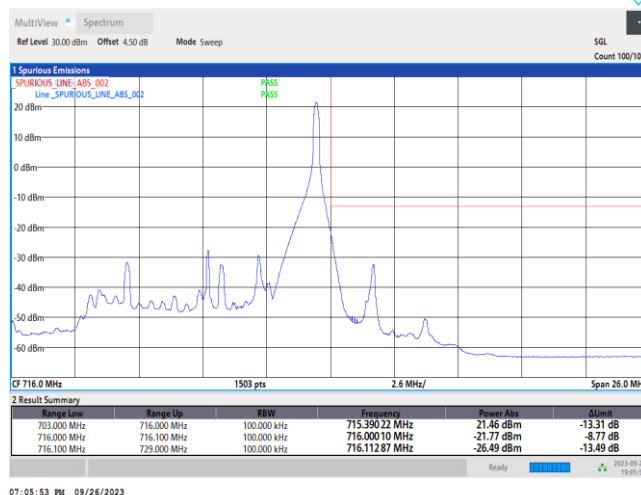
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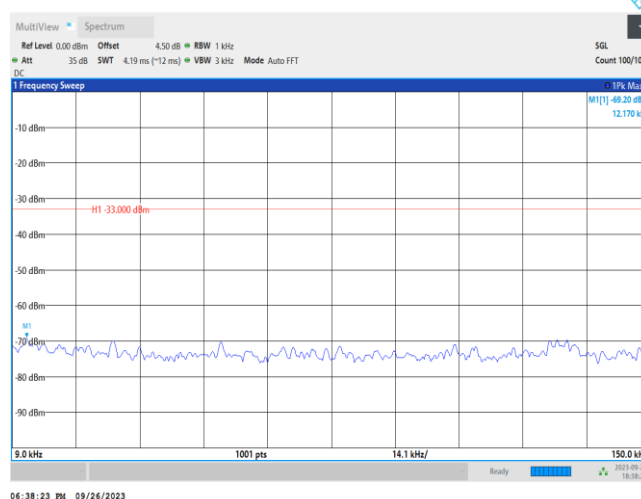
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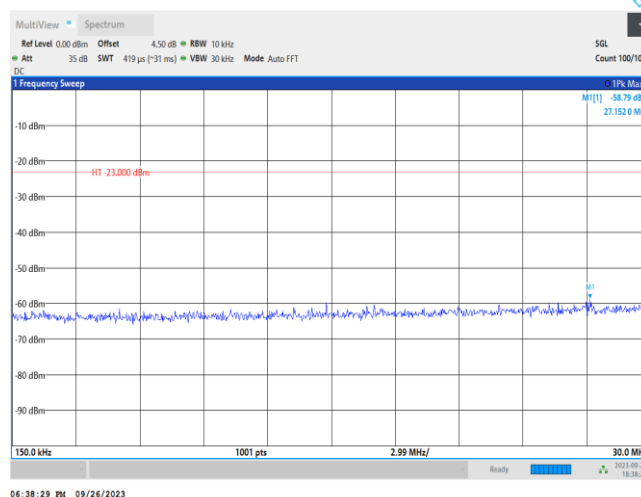
Conducted Spurious Emission

Test Graphs

Band17-10MHz-QPSK-23780-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23780-1RB#0-Range2:0.15~30MHz

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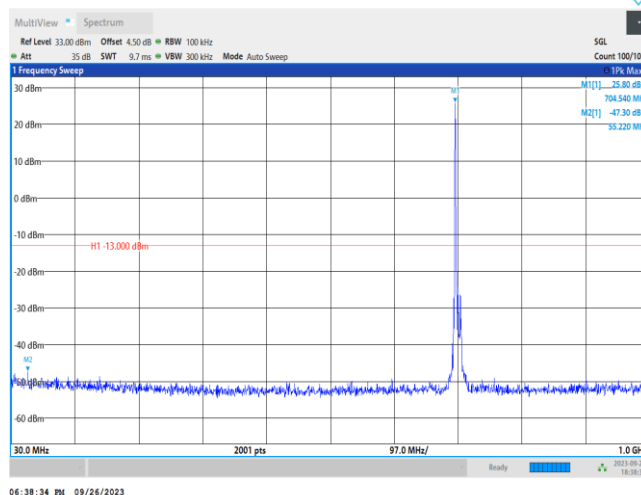
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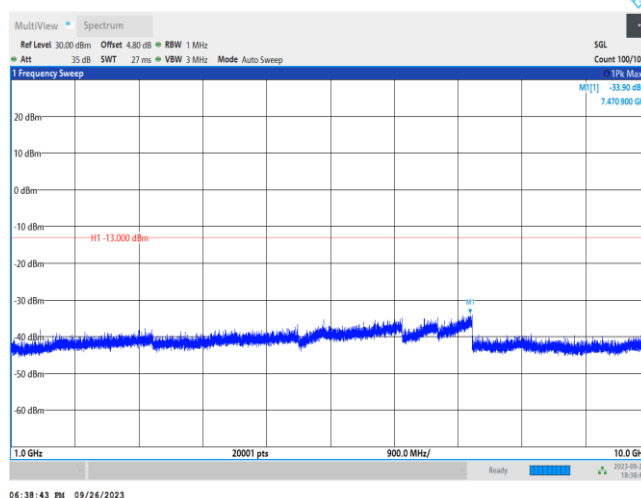
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Band17-10MHz-QPSK-23780-1RB#0-Range4:1000~10000MHz



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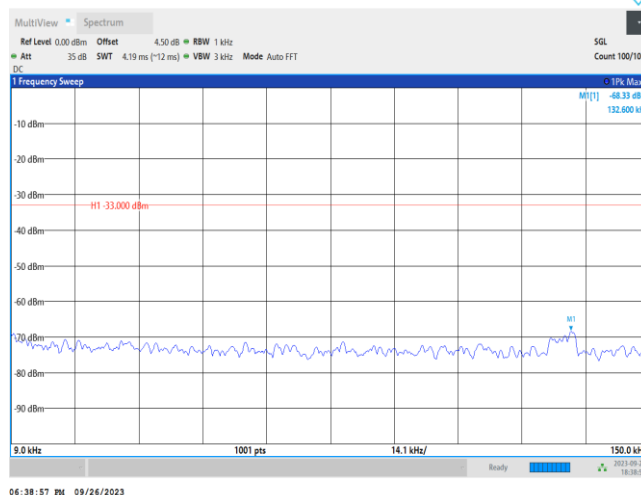
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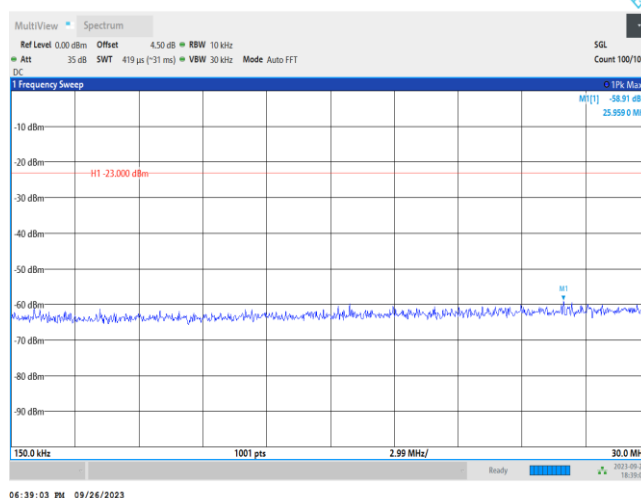
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



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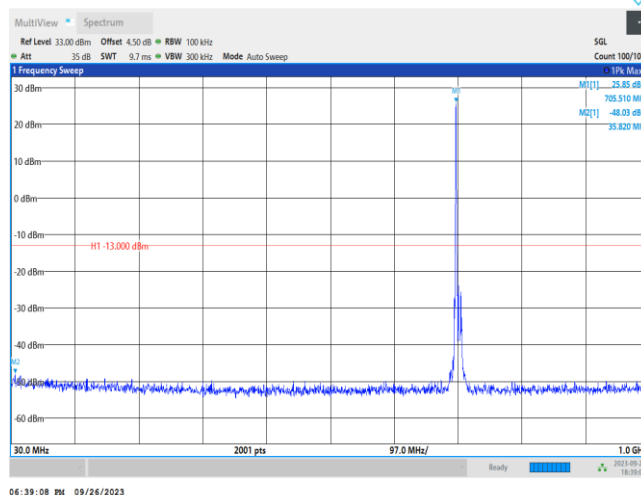
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Report No.: XEWM2309000462RG01

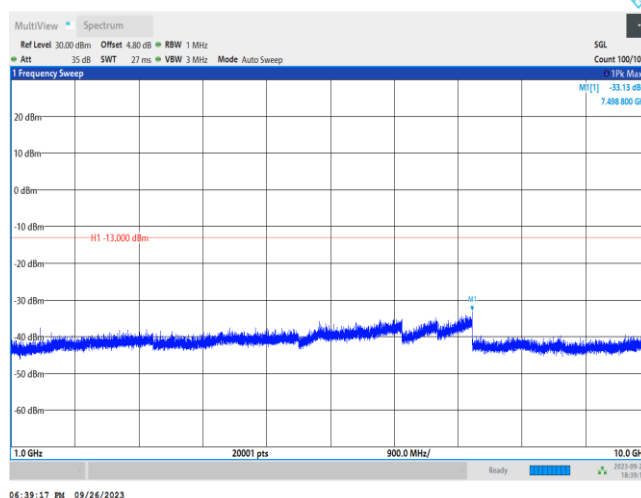
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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



Band17-10MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz



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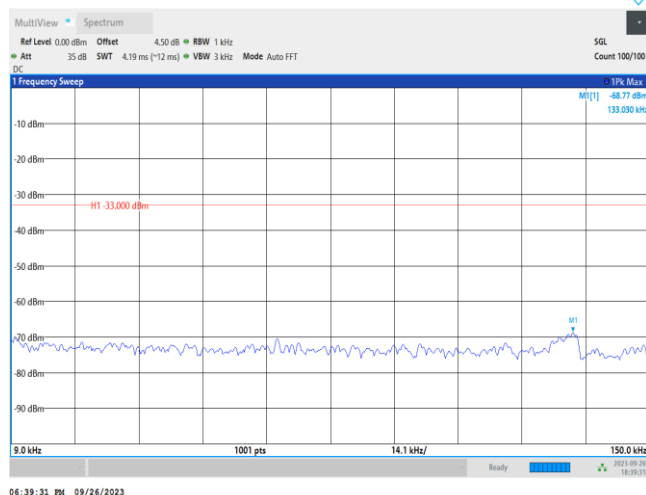
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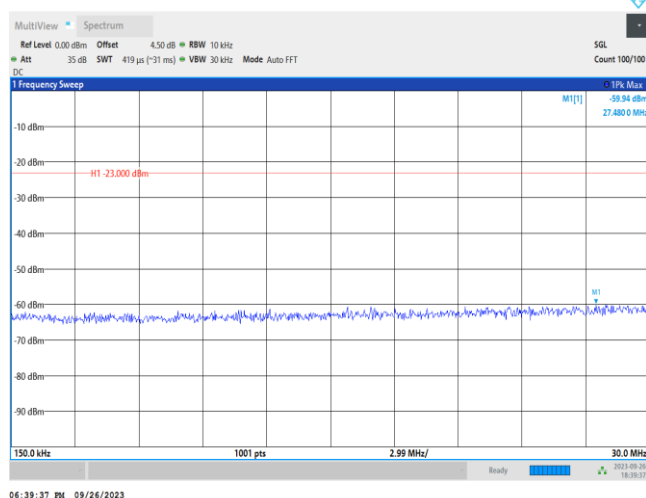
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23800-1RB#0-Range2:0.15~30MHz



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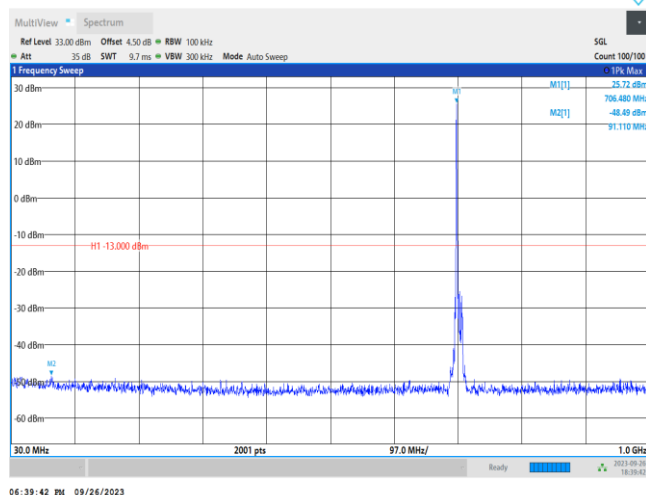
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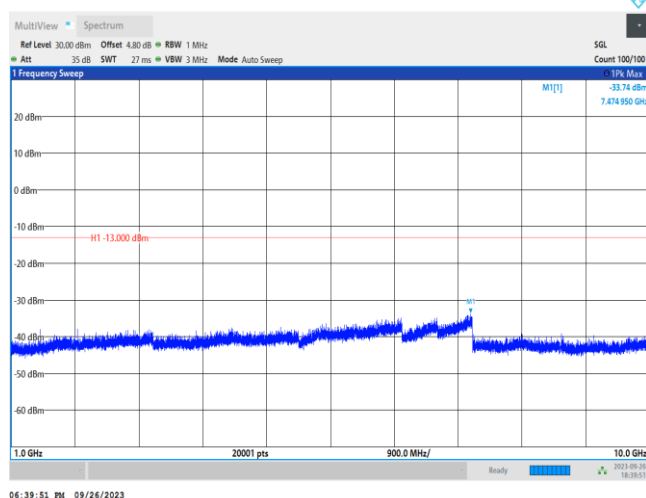
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



Band17-10MHz-QPSK-23800-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE_17

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	54.68	-47.24	24.13	-63.69	-13.00	50.69	Horizontal
2	1409	54.41	-47.41	24.97	-63.29	-13.00	50.29	Horizontal
3	2114	57.26	-46.89	26.72	-58.17	-13.00	45.17	Horizontal
4	2681.5	53.75	-46.18	27.96	-59.73	-13.00	46.73	Horizontal
5	5524.5	50.50	-41.87	32.30	-54.33	-13.00	41.33	Horizontal
6	9923.5	41.85	-35.38	38.62	-50.17	-13.00	37.17	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	53.25	-47.24	24.13	-65.12	-13.00	52.12	Vertical
2	1409	58.37	-47.41	24.97	-59.33	-13.00	46.33	Vertical
3	2046.5	54.85	-46.90	26.31	-61.00	-13.00	48.00	Vertical
4	2681.5	54.73	-46.18	27.96	-58.75	-13.00	45.75	Vertical
5	5524.5	48.92	-41.87	32.30	-55.91	-13.00	42.91	Vertical
6	9913.5	41.80	-35.34	38.61	-50.19	-13.00	37.19	Vertical



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Test Band = LTE_17

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	54.59	-47.24	24.13	-63.78	-13.00	50.78	Horizontal
2	1411	56.78	-47.42	24.99	-60.91	-13.00	47.91	Horizontal
3	2116.5	57.82	-46.89	26.70	-57.63	-13.00	44.63	Horizontal
4	2681.5	53.59	-46.18	27.96	-59.89	-13.00	46.89	Horizontal
5	5524.5	50.22	-41.87	32.30	-54.61	-13.00	41.61	Horizontal
6	9910.5	41.76	-35.33	38.61	-50.22	-13.00	37.22	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	53.12	-47.24	24.13	-65.25	-13.00	52.25	Vertical
2	1411	61.56	-47.42	24.99	-56.13	-13.00	43.13	Vertical
3	2046.5	54.79	-46.90	26.31	-61.06	-13.00	48.06	Vertical
4	2540.5	55.26	-46.48	27.80	-58.68	-13.00	45.68	Vertical
5	5524.5	49.39	-41.87	32.30	-55.44	-13.00	42.44	Vertical
6	9943	42.13	-35.46	38.64	-49.95	-13.00	36.95	Vertical



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Test Band = LTE_17
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	55.39	-47.24	24.13	-62.98	-13.00	49.98	Horizontal
2	1413	56.27	-47.42	25.00	-61.41	-13.00	48.41	Horizontal
3	2120	57.56	-46.90	26.68	-57.92	-13.00	44.92	Horizontal
4	2823	50.39	-46.05	28.30	-62.62	-13.00	49.62	Horizontal
5	5524.5	50.51	-41.87	32.30	-54.32	-13.00	41.32	Horizontal
6	9115	41.90	-35.57	37.03	-51.90	-13.00	38.90	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1058.5	52.80	-47.24	24.13	-65.57	-13.00	52.57	Vertical
2	1413	59.77	-47.42	25.00	-57.91	-13.00	44.91	Vertical
3	2120	52.62	-46.90	26.68	-62.86	-13.00	49.86	Vertical
4	2540.5	55.42	-46.48	27.80	-58.52	-13.00	45.52	Vertical
5	5524.5	49.20	-41.87	32.30	-55.63	-13.00	42.63	Vertical
6	8755	42.58	-36.11	36.77	-52.02	-13.00	39.02	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Frequency Stability

Test Result

Voltage									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-4.72	-0.006648	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-5.58	-0.007859	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-4.11	-0.005789	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-3.83	-0.005394	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-8.87	-0.012493	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-5.79	-0.008155	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-6.19	-0.008718	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-4.36	-0.006141	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-13.03	-0.018352	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-9.41	-0.013254	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-14.36	-0.020225	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-1.75	-0.002465	PASS

---End of Attachment---



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