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Appendix B.9

LTE Band 17



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

ANT1

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	23.57	20.56	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.82	20.81	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.53	20.52	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.65	19.64	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.58	20.57	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.82	20.81	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.53	20.52	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.68	19.67	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	23.58	20.57	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	23.8	20.79	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.49	20.48	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	22.73	19.72	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.79	19.78	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.18	20.17	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.82	19.81	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.68	18.67	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.83	19.82	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.03	20.02	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.71	19.7	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	21.69	18.68	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.75	19.74	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.97	19.96	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.67	19.66	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	21.74	18.73	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.68	18.67	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	22.06	19.05	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	21.73	18.72	34.77	PASS



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Band17	5MHz	64QAM	23755	25RB#0	20.67	17.66	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.72	18.71	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.95	18.94	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.69	18.68	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	20.68	17.67	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.71	18.7	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.96	18.95	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	21.69	18.68	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	20.74	17.73	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.56	20.55	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.79	20.78	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	23.56	20.55	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.74	19.73	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.62	20.61	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.83	20.82	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	23.57	20.56	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.76	19.75	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.66	20.65	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.81	20.8	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.57	20.56	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.8	19.79	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.91	19.9	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.04	20.03	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.83	19.82	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.75	18.74	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.8	19.79	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.99	19.98	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.77	19.76	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.77	18.76	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.88	19.87	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22.95	19.94	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.75	19.74	34.77	PASS



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Band17	10MHz	16QAM	23800	50RB#0	21.8	18.79	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	21.77	18.76	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.94	18.93	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	21.75	18.74	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	20.74	17.73	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	21.82	18.81	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.96	18.95	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.83	18.82	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	20.73	17.72	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.85	18.84	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.9	18.89	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	21.71	18.7	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	20.77	17.76	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	5.28	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.20	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.18	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.98	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.98	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.00	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.36	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.34	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.28	13	PASS



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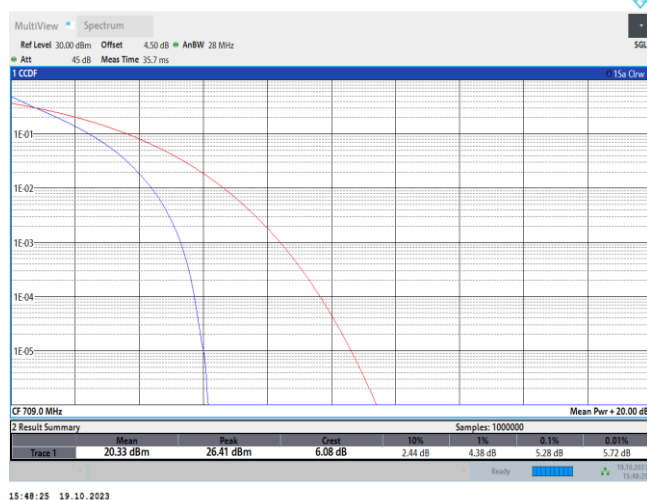
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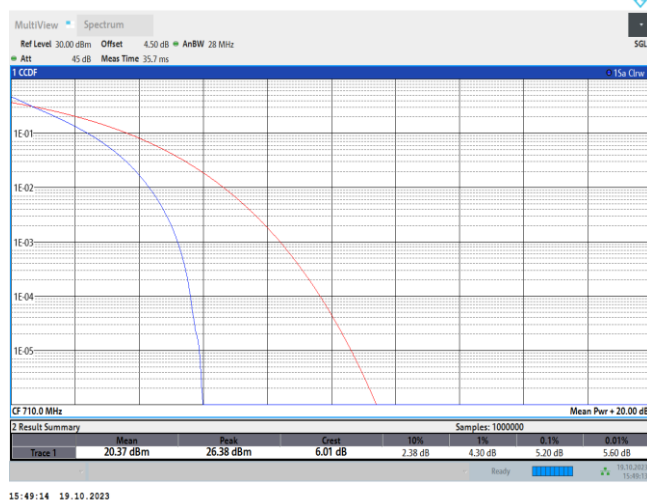
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Test Graphs

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



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



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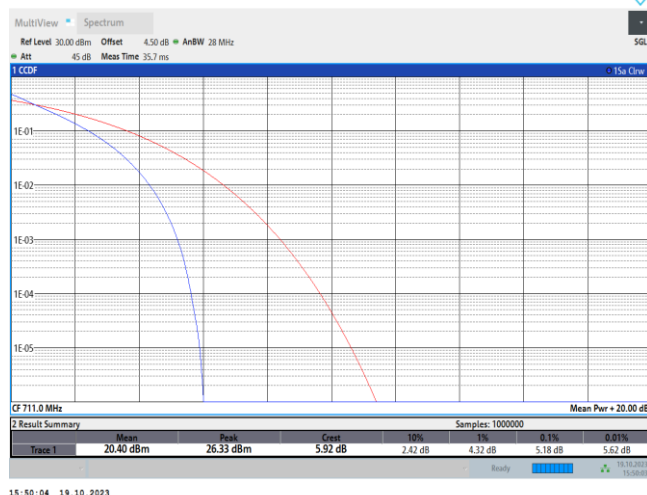
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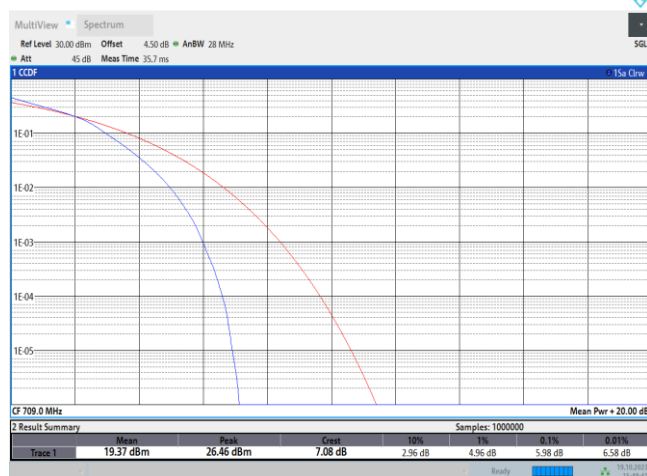
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Band17-10MHz-QPSK-23800-50RB#0



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



15:48:42 19.10.2023



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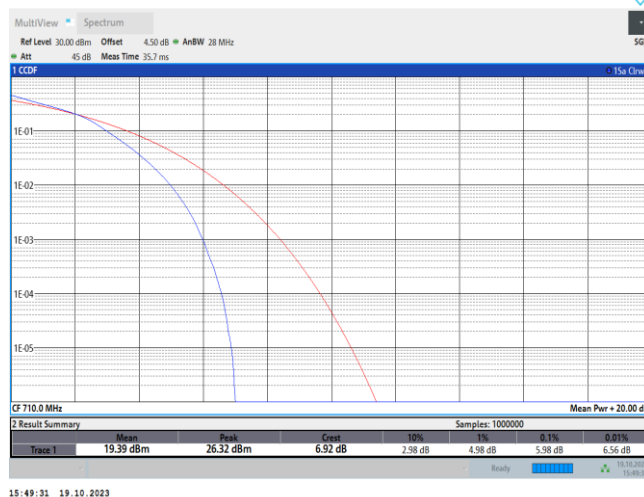
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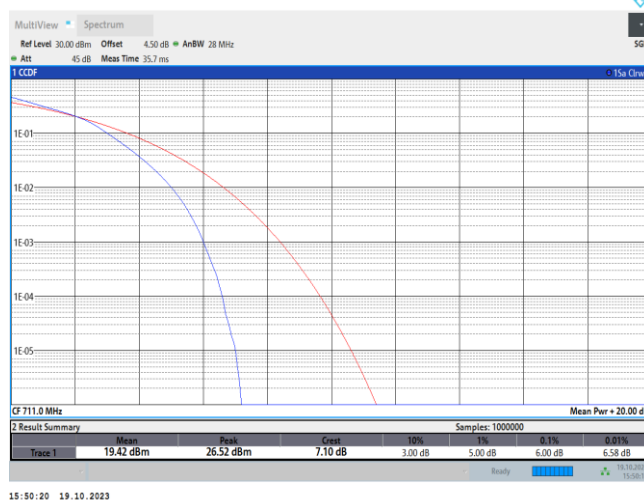
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Band17-10MHz-16QAM-23790-50RB#0



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



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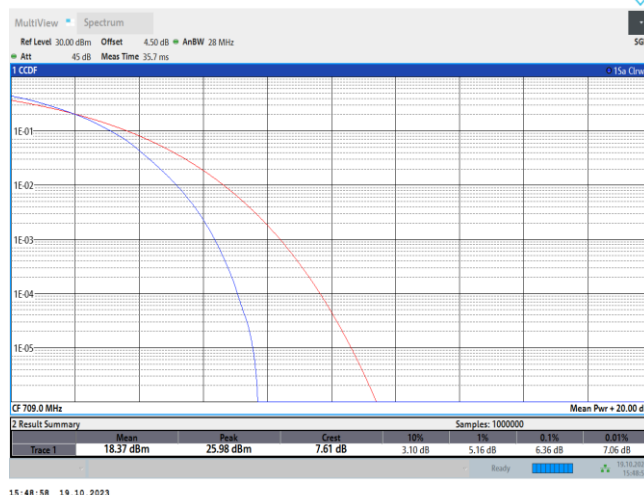
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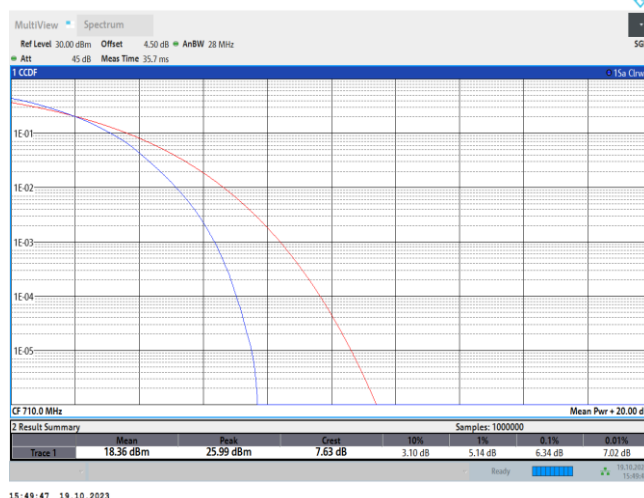
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Band17-10MHz-64QAM-23790-50RB#0



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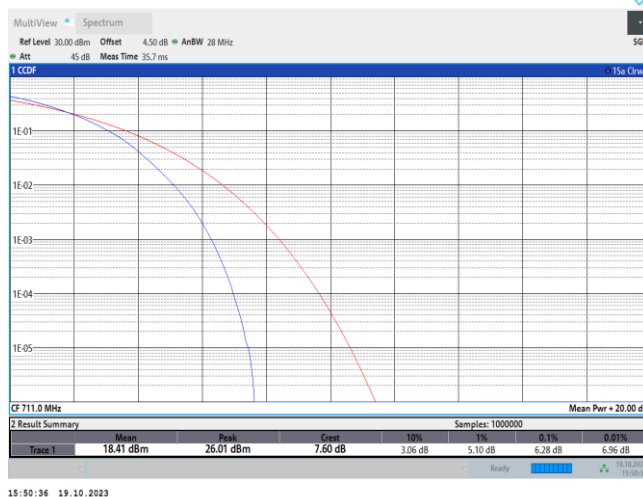
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Band17-10MHz-64QAM-23800-50RB#0



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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	23790	25RB#0	4.478	5.03	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.473	5.05	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.486	5.06	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.95	9.87	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.936	9.83	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.942	9.83	PASS



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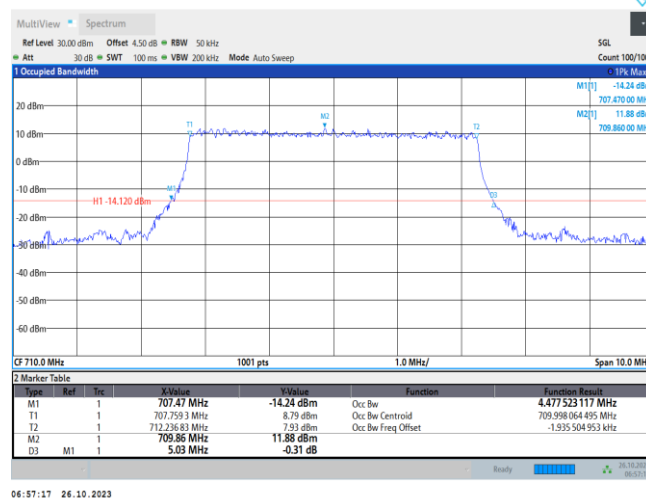
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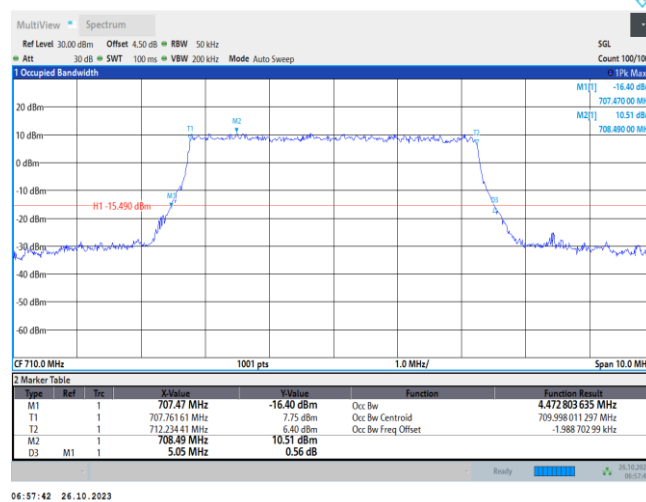
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Test Graphs

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



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

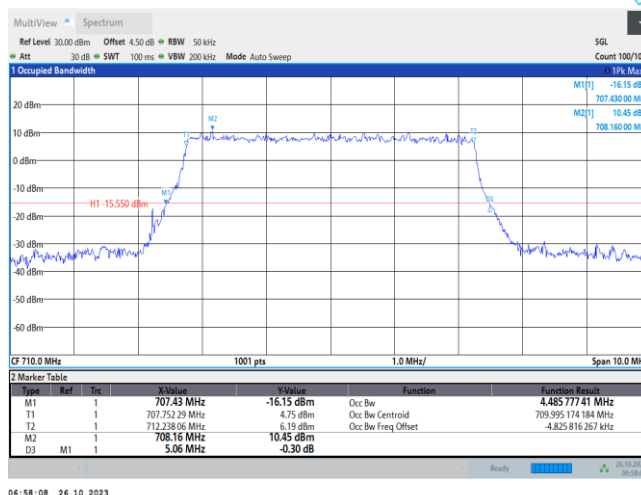


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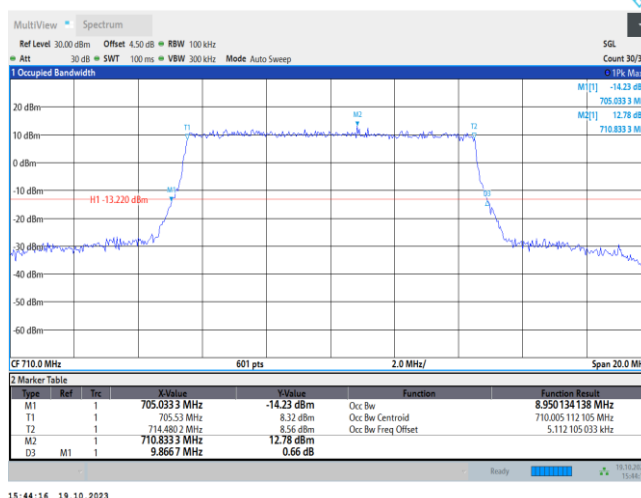
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Band17-5MHz-64QAM-23790-25RB#0



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



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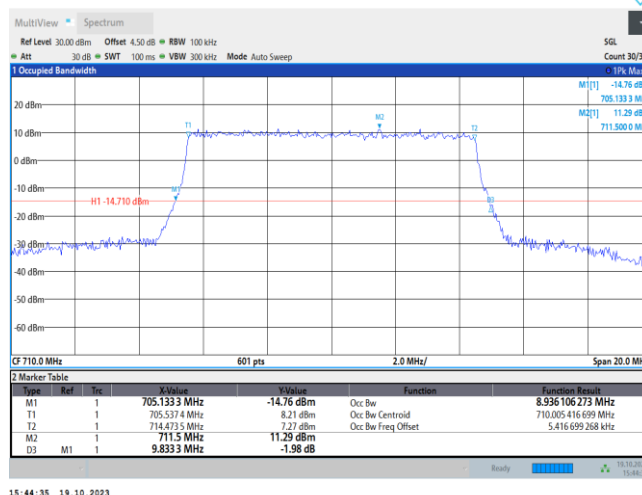
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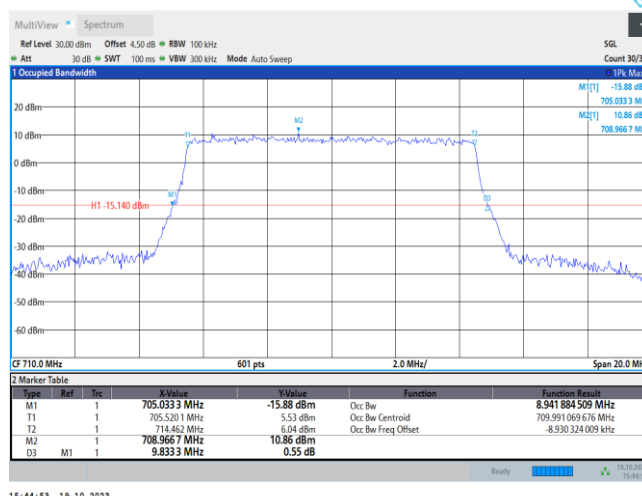
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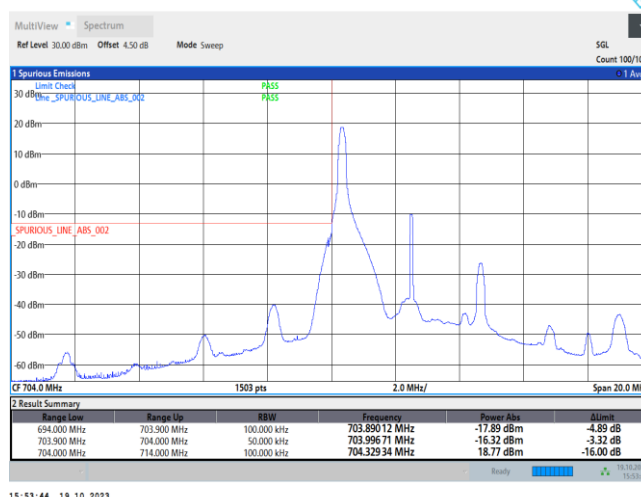
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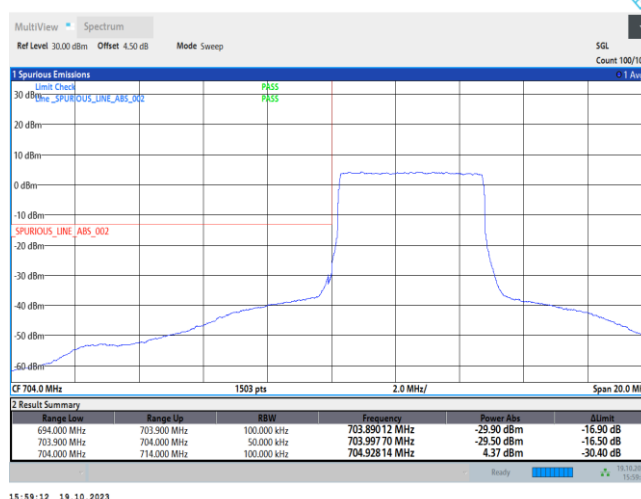
Band Edge

Test Graphs

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



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



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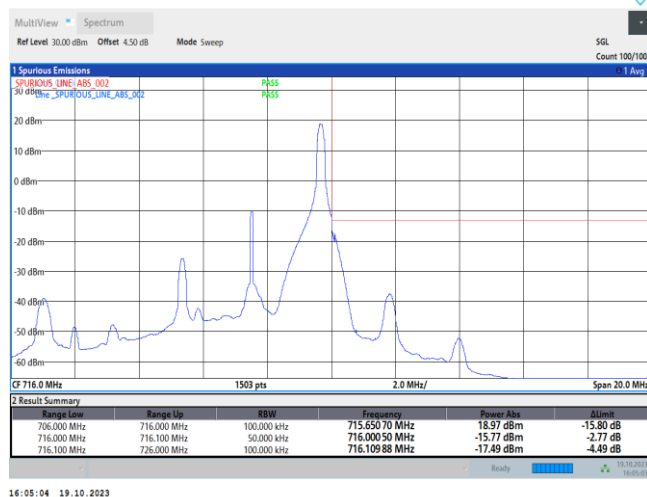
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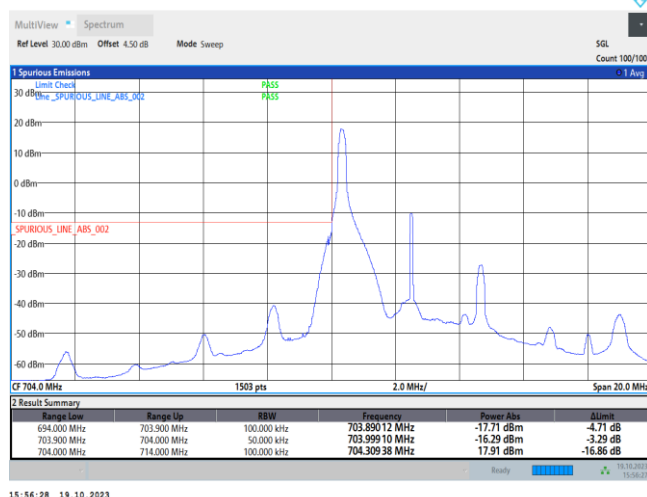
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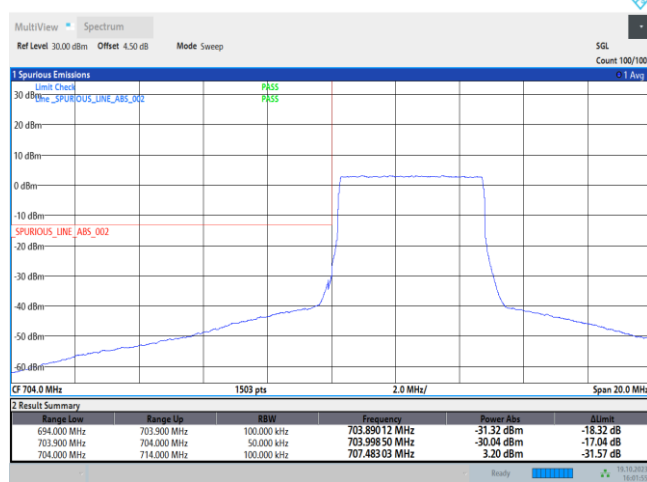
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Band17-5MHz-16QAM-23755-25RB#0



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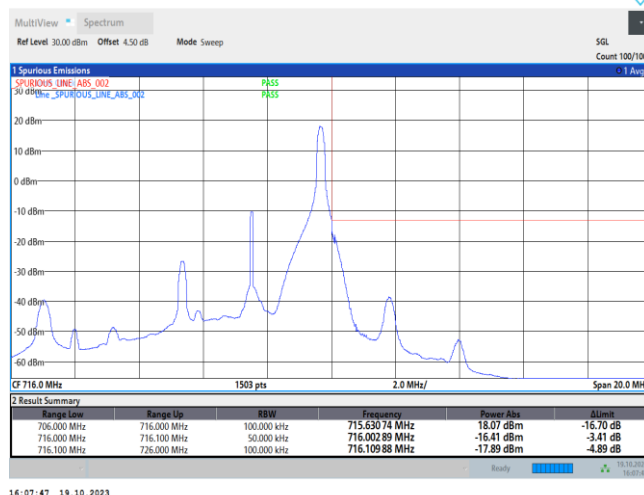
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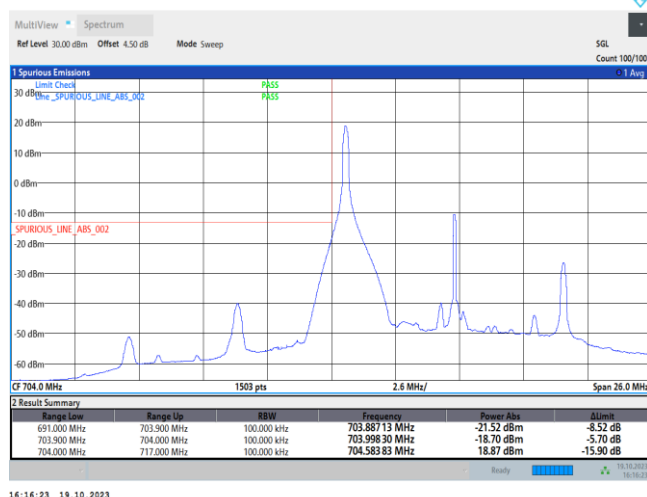
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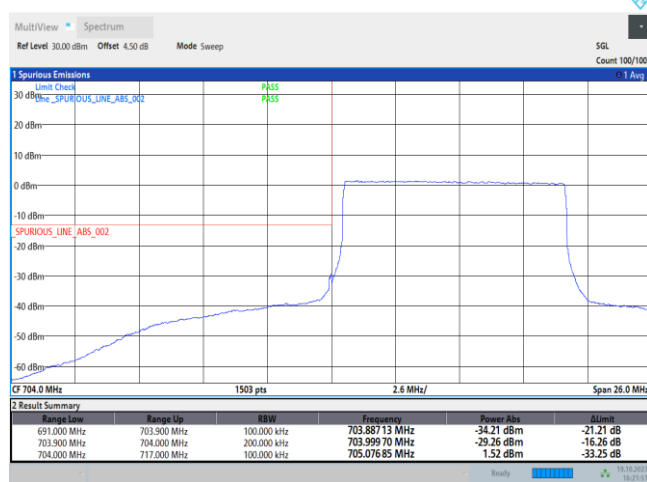
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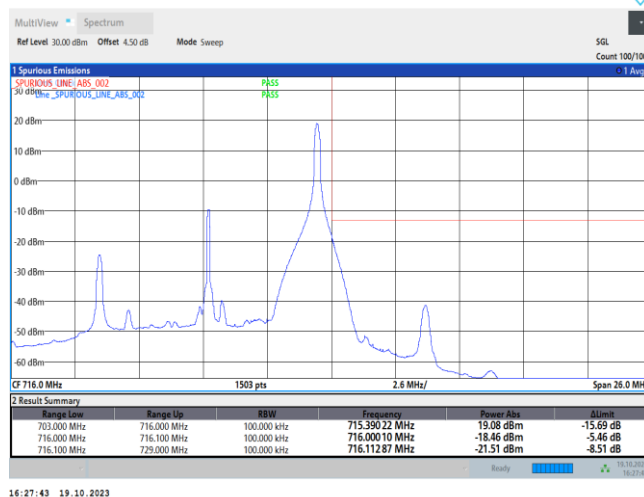
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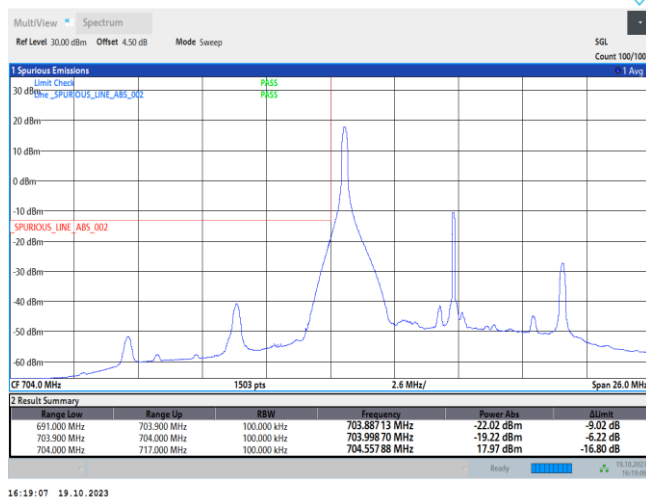
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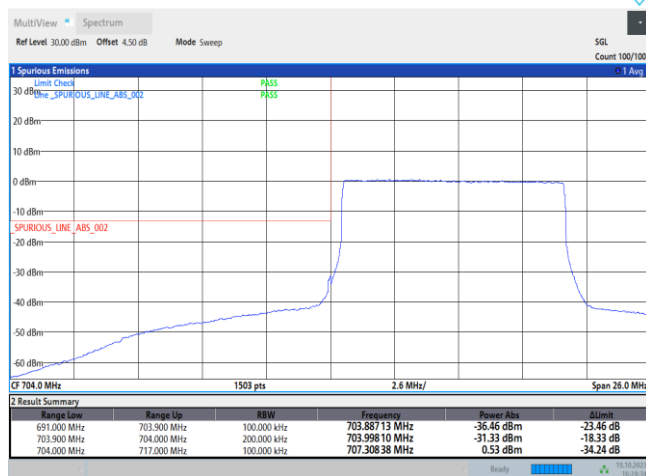
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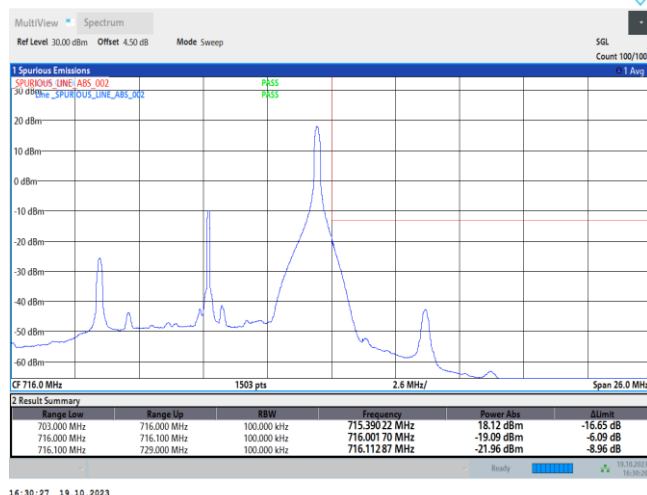
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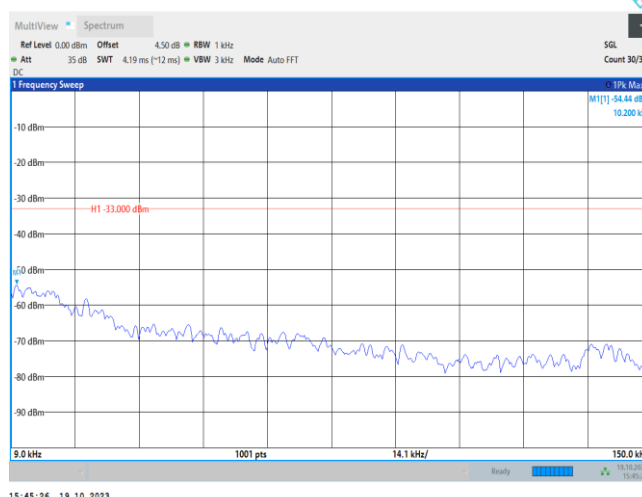
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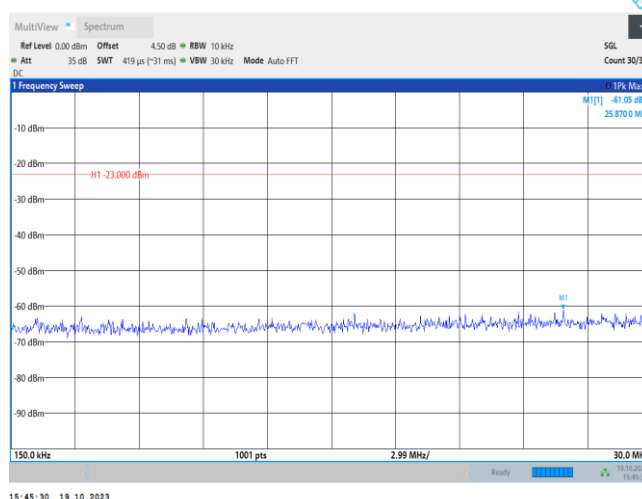
Conducted Spurious Emission

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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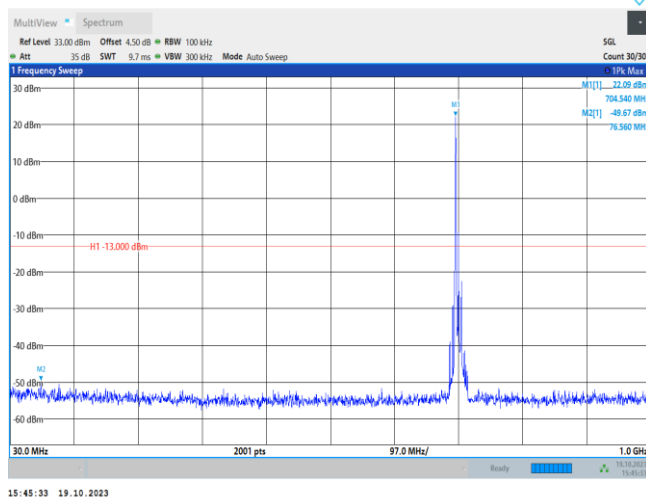
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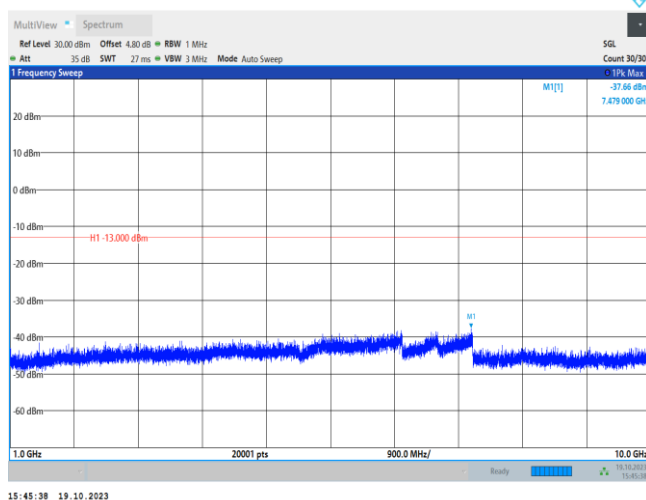
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



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



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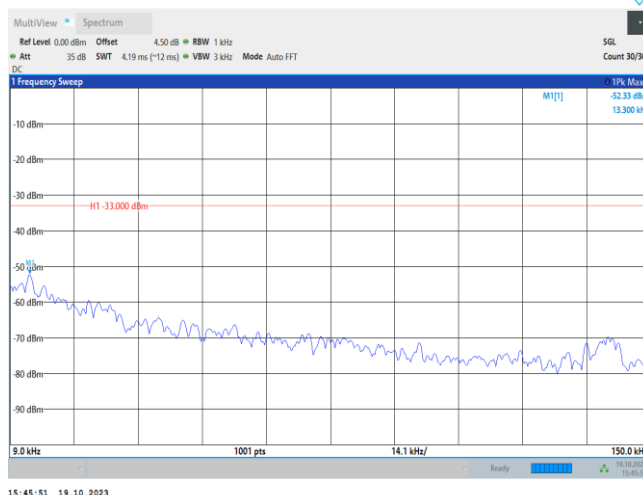
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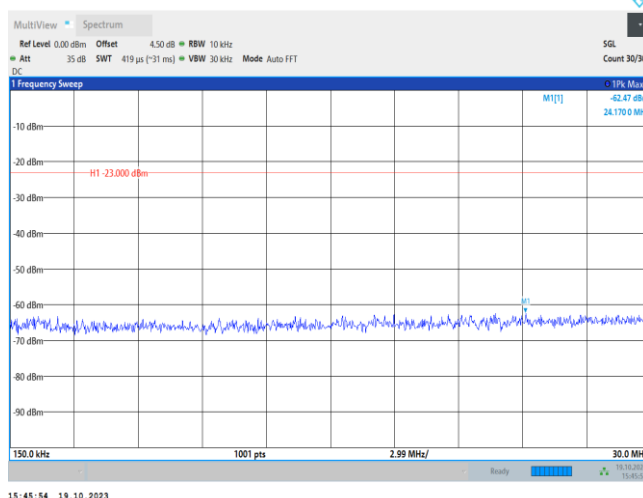
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz



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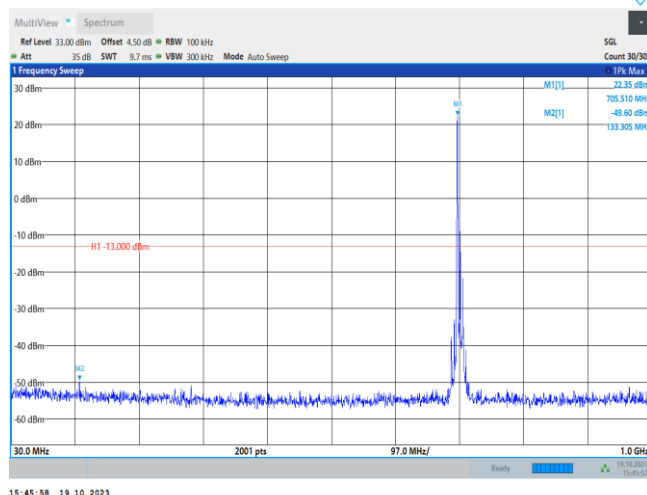
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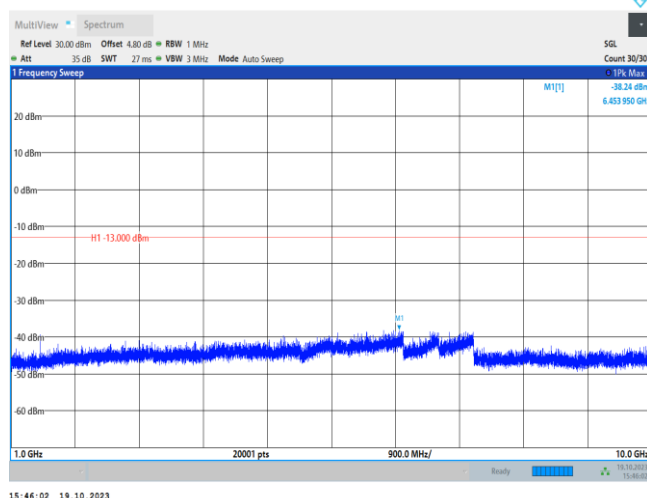
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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



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



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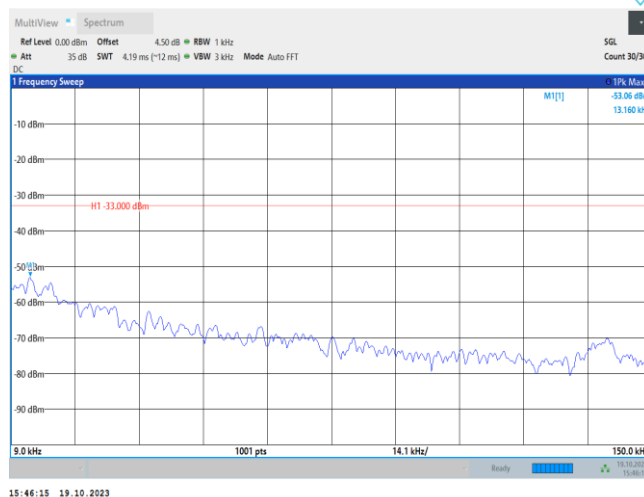
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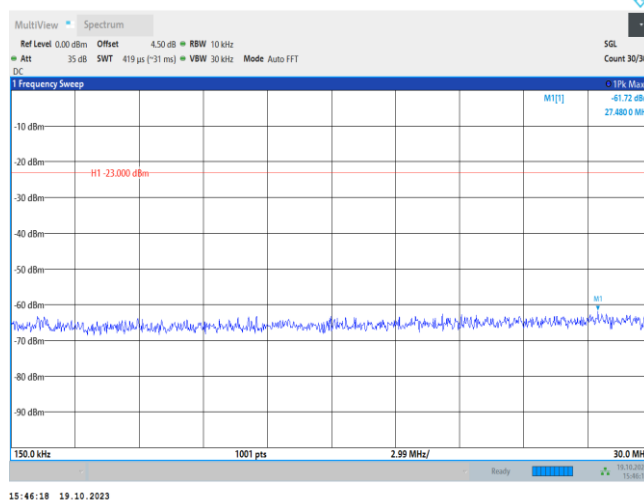
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



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



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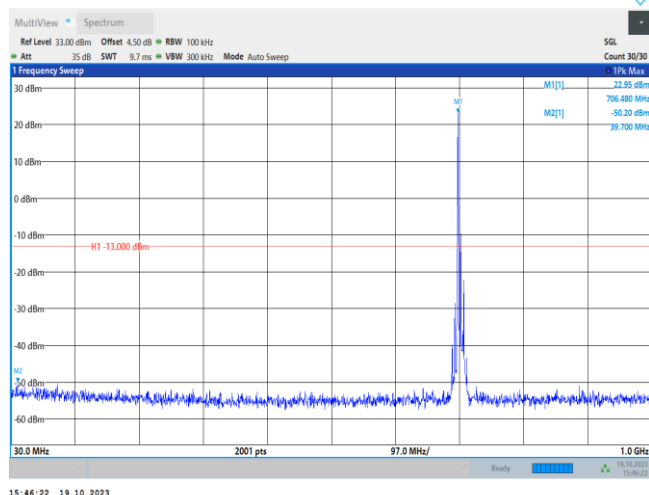
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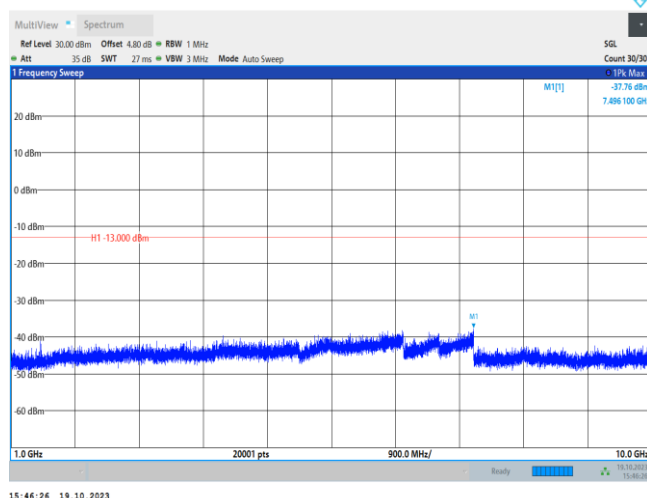
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE Band17_ TM1
Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.1800	52.45	-48.03	25.10	-65.74	-13.00	52.74	Horizontal
2	2113.7700	64.16	-47.71	26.22	-52.59	-13.00	39.59	Horizontal
3	2818.3600	42.31	-46.85	27.94	-71.87	-13.00	58.87	Horizontal
4	3522.9500	41.39	-46.49	28.62	-71.74	-13.00	58.74	Horizontal
5	4227.5400	40.40	-45.91	29.65	-71.12	-13.00	58.12	Horizontal
6	4932.1300	41.78	-45.65	31.25	-67.88	-13.00	54.88	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.1800	45.96	-48.03	25.10	-72.23	-13.00	59.23	Vertical
2	2113.7700	57.93	-47.71	26.22	-58.82	-13.00	45.82	Vertical
3	2818.3600	42.50	-46.85	27.94	-71.68	-13.00	58.68	Vertical
4	3522.9500	42.36	-46.49	28.62	-70.77	-13.00	57.77	Vertical
5	4227.5400	40.39	-45.91	29.65	-71.13	-13.00	58.13	Vertical
6	4932.1300	41.16	-45.65	31.25	-68.50	-13.00	55.50	Vertical



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Test Band = LTE Band17_ TM1

Test Channel = Mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.1800	51.61	-48.04	25.11	-66.58	-13.00	53.58	Horizontal
2	2116.7700	67.15	-47.70	26.23	-49.59	-13.00	36.59	Horizontal
3	2822.3600	42.02	-46.84	27.95	-72.13	-13.00	59.13	Horizontal
4	3527.9500	41.58	-46.48	28.63	-71.54	-13.00	58.54	Horizontal
5	4233.5400	40.39	-45.90	29.66	-71.11	-13.00	58.11	Horizontal
6	4939.1300	41.18	-45.67	31.27	-68.48	-13.00	55.48	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.1800	49.63	-48.04	25.11	-68.56	-13.00	55.56	Vertical
2	2116.7700	61.14	-47.70	26.23	-55.60	-13.00	42.60	Vertical
3	2822.3600	42.42	-46.84	27.95	-71.73	-13.00	58.73	Vertical
4	3527.9500	41.62	-46.48	28.63	-71.50	-13.00	58.50	Vertical
5	4233.5400	40.71	-45.90	29.66	-70.79	-13.00	57.79	Vertical
6	4939.1300	41.19	-45.67	31.27	-68.47	-13.00	55.47	Vertical



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Test Band = LTE Band17_ TM1
Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	50.08	-48.04	25.11	-68.12	-13.00	55.12	Horizontal
2	2119.7700	69.34	-47.70	26.24	-47.39	-13.00	34.39	Horizontal
3	2826.3600	41.49	-46.83	27.95	-72.64	-13.00	59.64	Horizontal
4	3532.9500	41.41	-46.47	28.63	-71.69	-13.00	58.69	Horizontal
5	4239.5400	40.54	-45.89	29.68	-70.93	-13.00	57.93	Horizontal
6	4946.1300	40.24	-45.69	31.28	-69.42	-13.00	56.42	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	46.04	-48.04	25.11	-72.16	-13.00	59.16	Vertical
2	2119.7700	66.52	-47.70	26.24	-50.21	-13.00	37.21	Vertical
3	2826.3600	41.88	-46.83	27.95	-72.25	-13.00	59.25	Vertical
4	3532.9500	41.66	-46.47	28.63	-71.44	-13.00	58.44	Vertical
5	4239.5400	40.94	-45.89	29.68	-70.53	-13.00	57.53	Vertical
6	4946.1300	41.33	-45.69	31.28	-68.33	-13.00	55.33	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

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-6.40	-0.009014	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-6.80	-0.009577	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-9.50	-0.013380	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-8.30	-0.011690	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-6.50	-0.009155	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-7.50	-0.010563	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-11.70	-0.016479	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-4.20	-0.005915	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-8.60	-0.012113	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-5.60	-0.007887	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-6.70	-0.009437	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-7.70	-0.010845	PASS

---End of Attachment---



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