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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	22.73	17.78	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.00	18.05	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.66	17.71	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.87	16.92	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.69	17.74	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.98	18.03	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.66	17.71	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.79	16.84	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.68	17.73	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.97	18.02	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.74	17.79	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.88	16.93	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.02	17.07	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.36	17.41	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.07	17.12	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.88	15.93	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.96	17.01	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.25	17.30	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.98	17.03	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.80	15.85	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.94	16.99	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.32	17.37	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.12	17.17	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.89	15.94	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	20.89	15.94	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	21.16	16.21	34.77	PASS



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Band17	5MHz	64QAM	23755	1RB#24	20.88	15.93	34.77	PASS
Band17	5MHz	64QAM	23755	25RB#0	19.85	14.90	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	20.95	16.00	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	21.23	16.28	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	20.84	15.89	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	19.79	14.84	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	20.84	15.89	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.23	16.28	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	20.96	16.01	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	19.89	14.94	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.83	17.88	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	22.96	18.01	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.79	17.84	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.83	16.88	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.77	17.82	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.97	18.02	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.80	17.85	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.79	16.84	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.78	17.83	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.97	18.02	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.84	17.89	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.83	16.88	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.12	17.17	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.23	17.28	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.04	17.09	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	20.83	15.88	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.18	17.23	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.32	17.37	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	22.12	17.17	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.80	15.85	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.06	17.11	34.77	PASS



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Band17	10MHz	16QAM	23800	1RB#24	22.29	17.34	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.19	17.24	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	20.83	15.88	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	20.97	16.02	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	21.24	16.29	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	20.92	15.97	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	19.85	14.90	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	20.94	15.99	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.15	16.20	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	21.02	16.07	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	19.78	14.83	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	21.00	16.05	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.20	16.25	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	20.99	16.04	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	19.83	14.88	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	5.68	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.62	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.70	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.32	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.38	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.32	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.52	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.56	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.54	13	PASS



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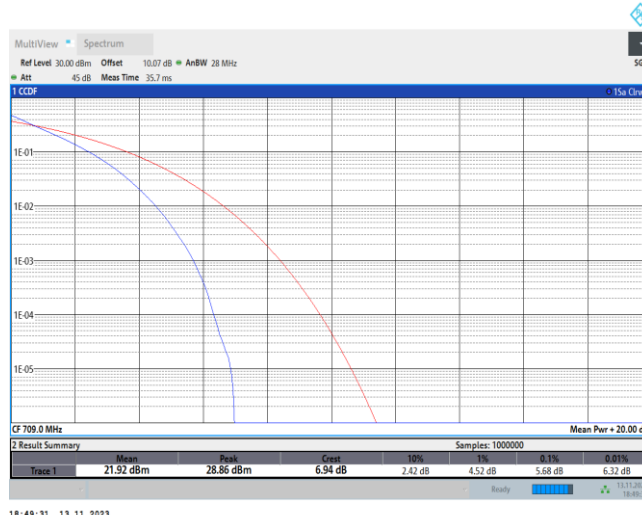
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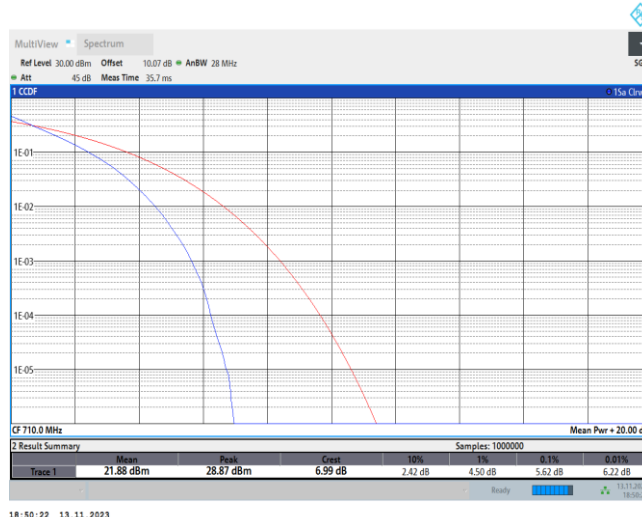
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Test Graphs

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



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



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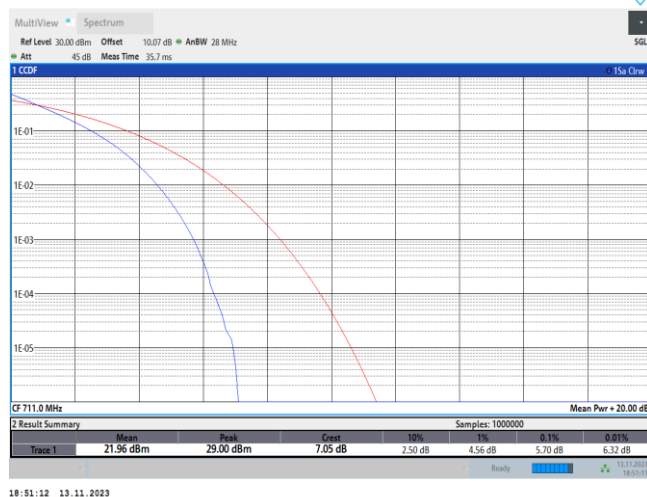
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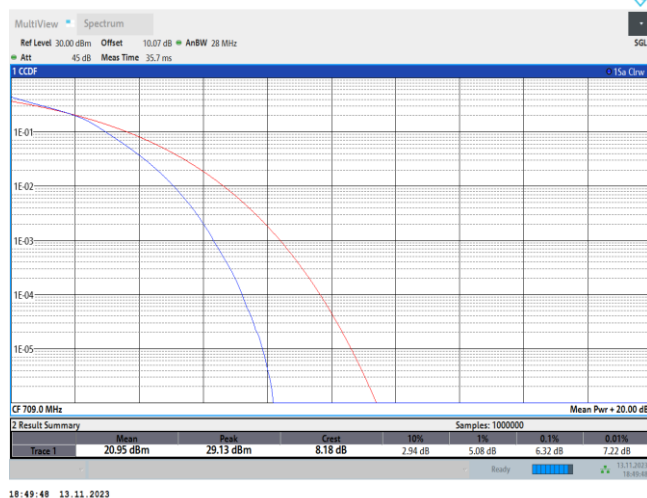
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Band17-10MHz-QPSK-23800-50RB#0



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



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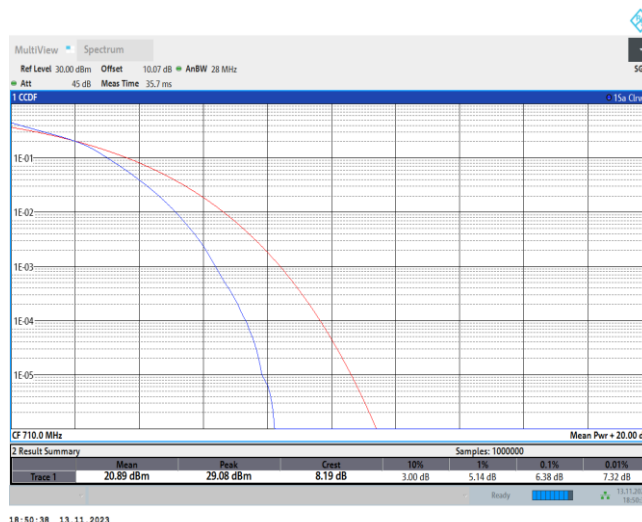
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Band17-10MHz-16QAM-23790-50RB#0



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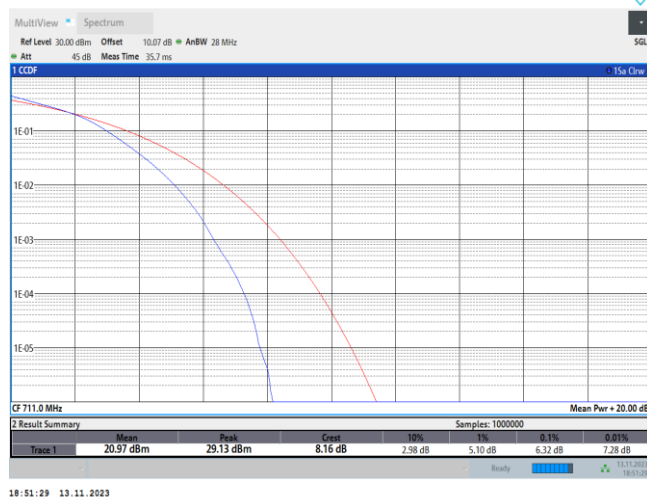
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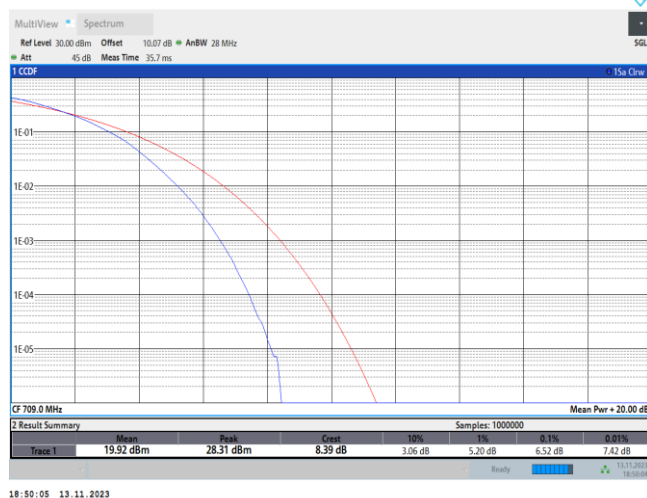
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Band17-10MHz-64QAM-23780-50RB#0



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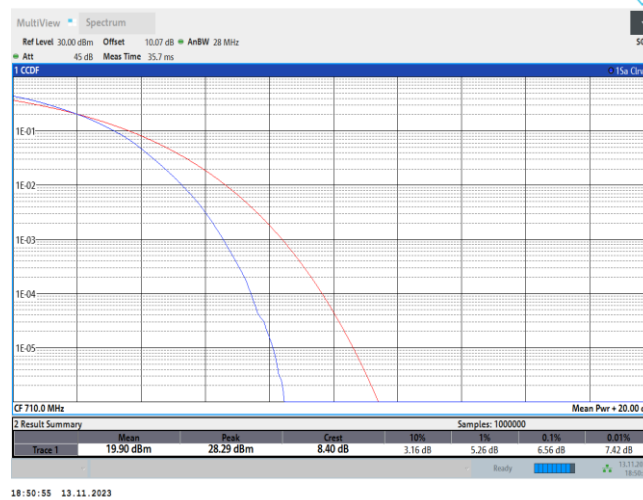
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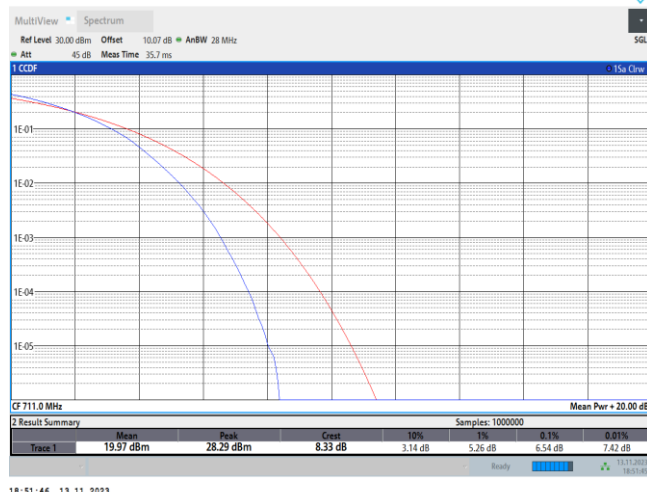
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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.477	5.03	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.474	5.02	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.48	5.05	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.477	5.07	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.472	5.05	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.483	5.07	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.496	5.05	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.483	5.05	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.497	5.07	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.937	9.80	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.929	9.80	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.94	9.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.924	9.80	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.911	9.80	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.915	9.80	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.933	9.83	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.924	9.87	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.937	9.80	PASS



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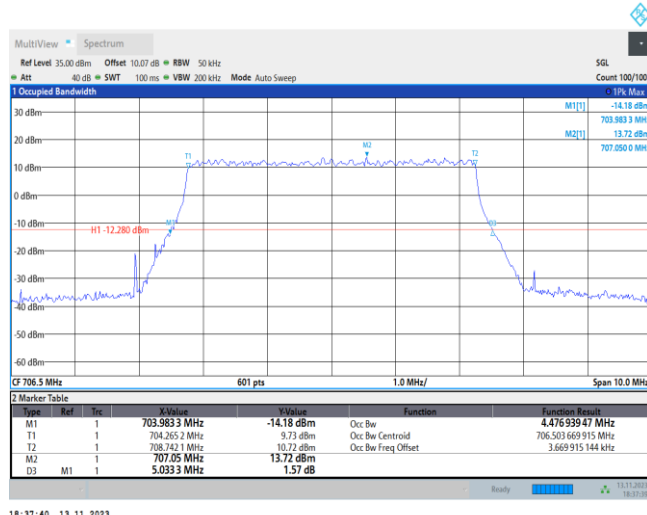
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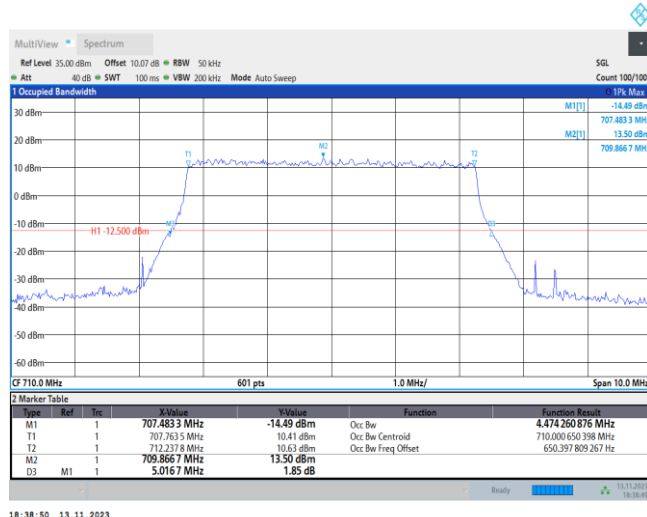
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Test Graphs

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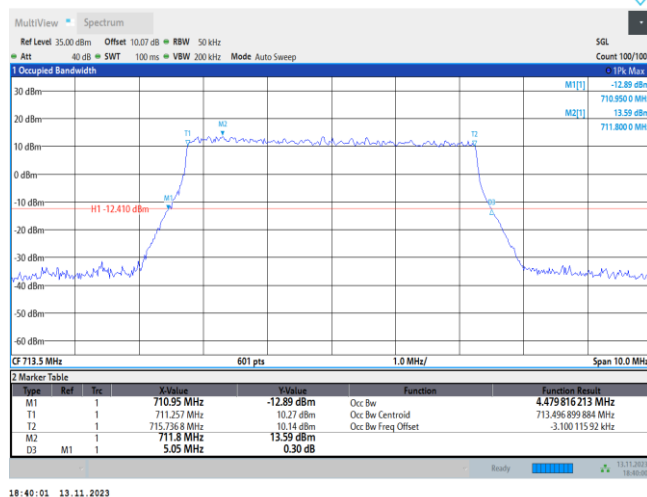
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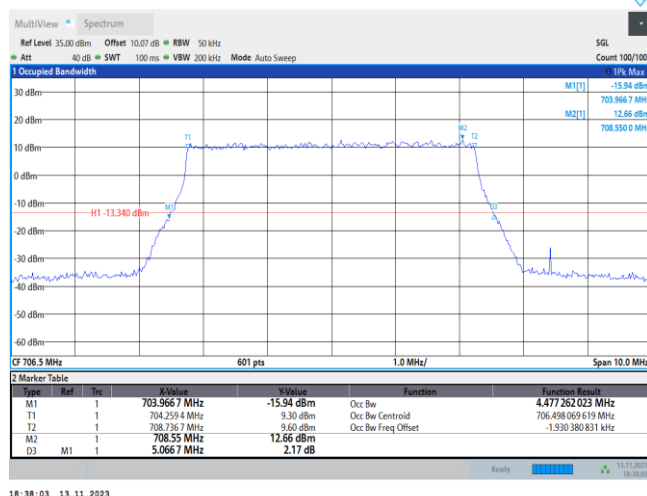
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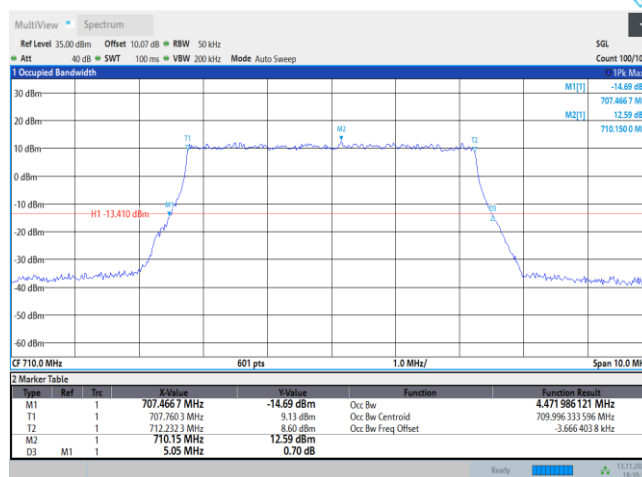
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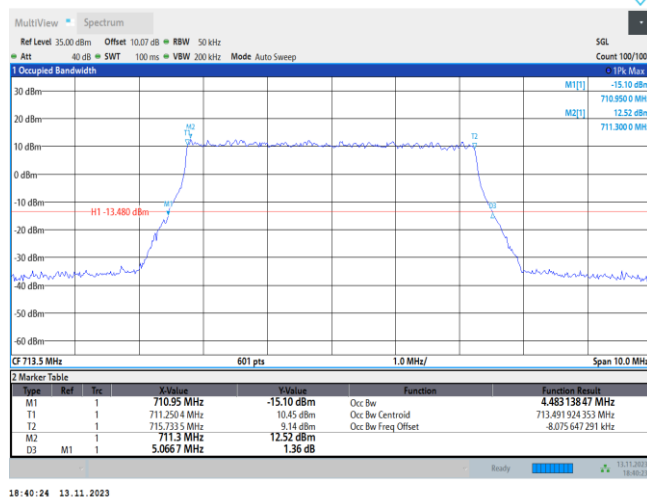
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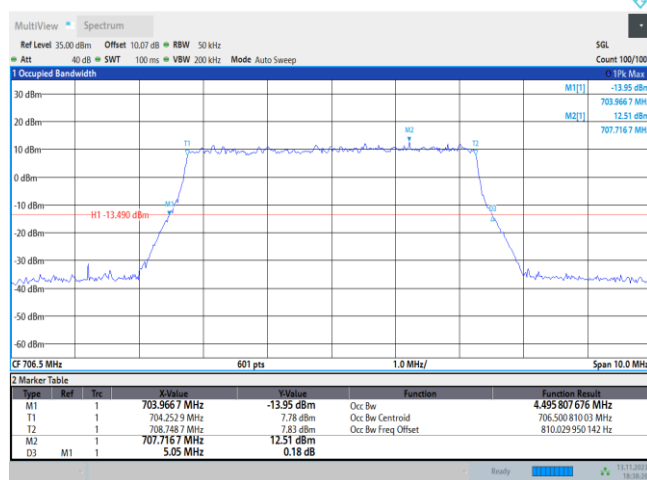
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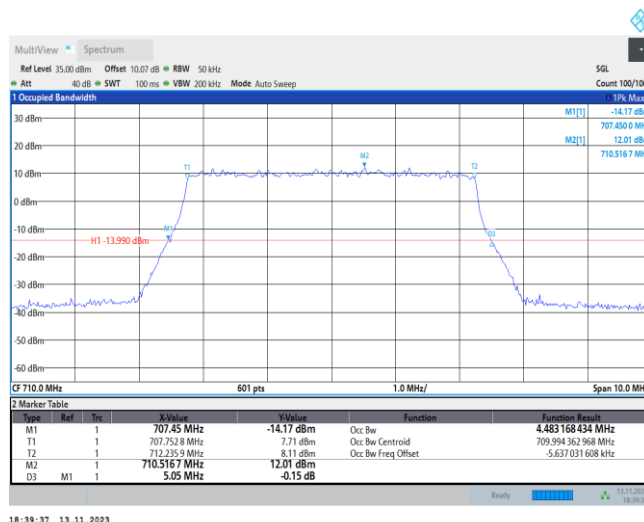
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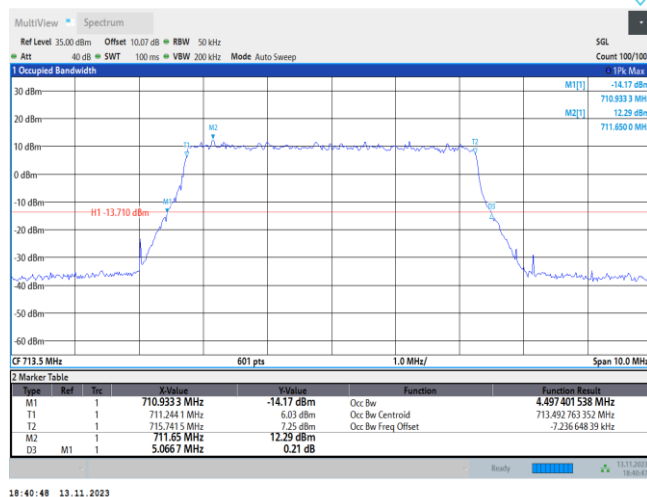
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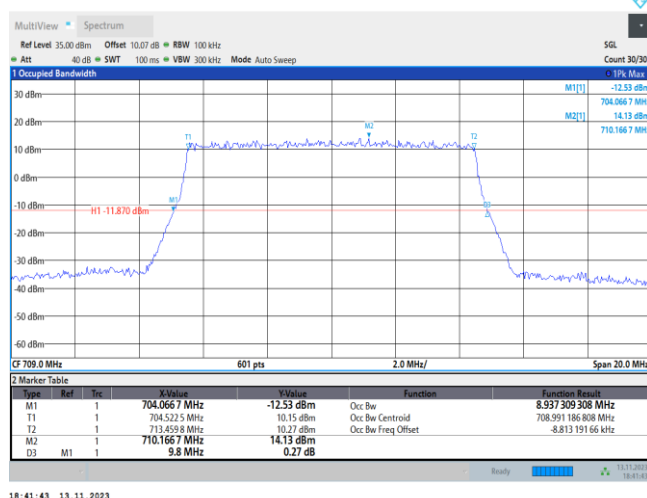
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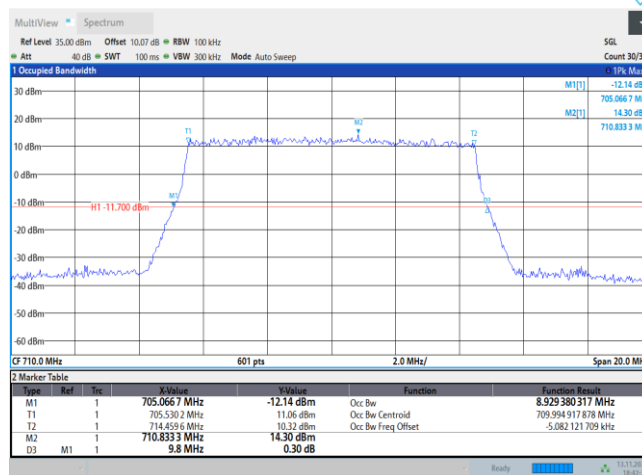
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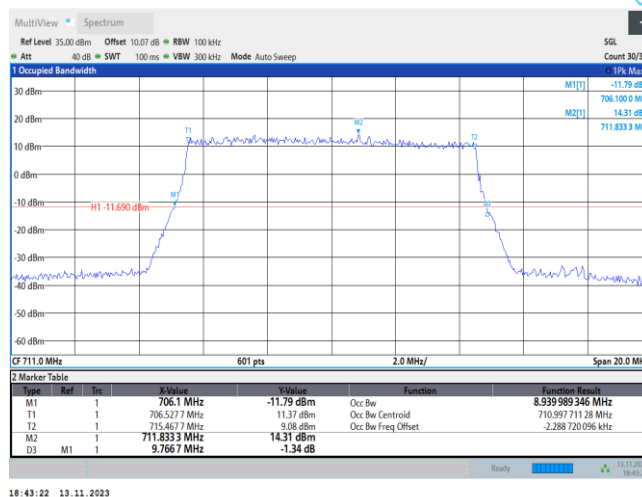
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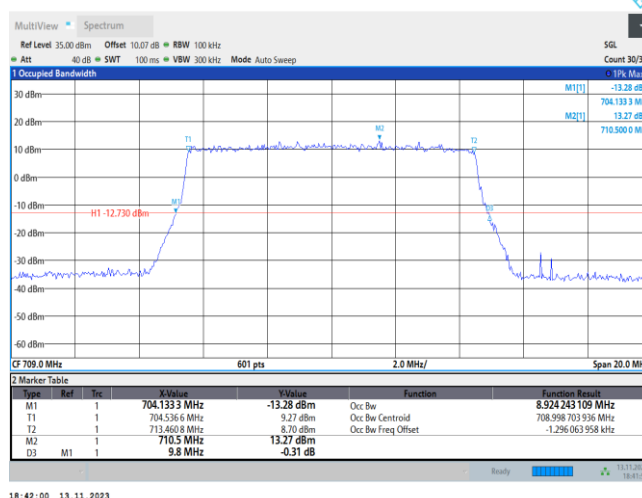
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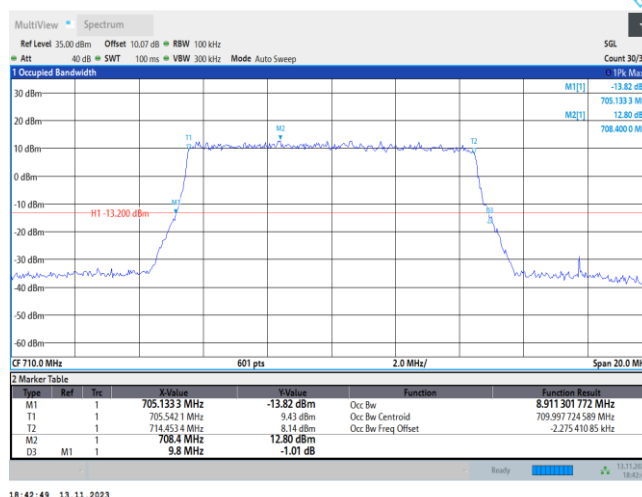
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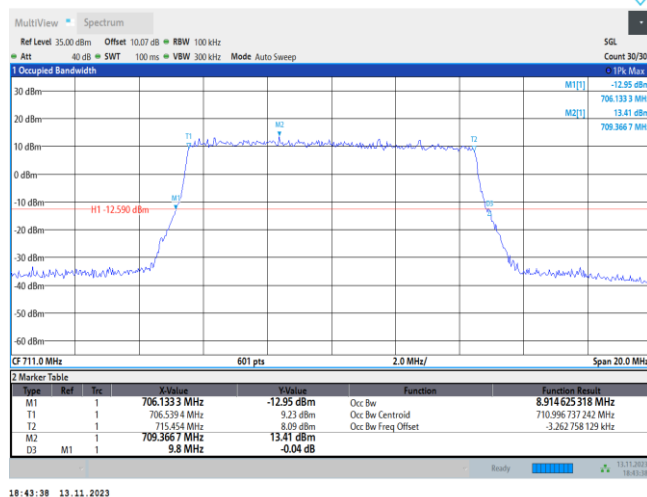
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Band17-10MHz-16QAM-23800-50RB#0



Band17-10MHz-64QAM-23780-50RB#0



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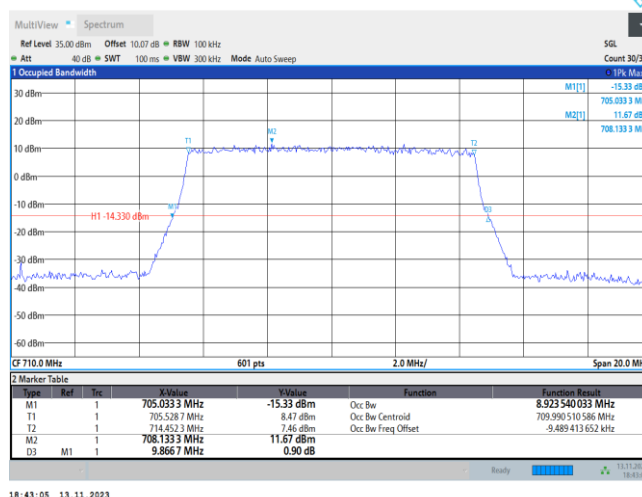
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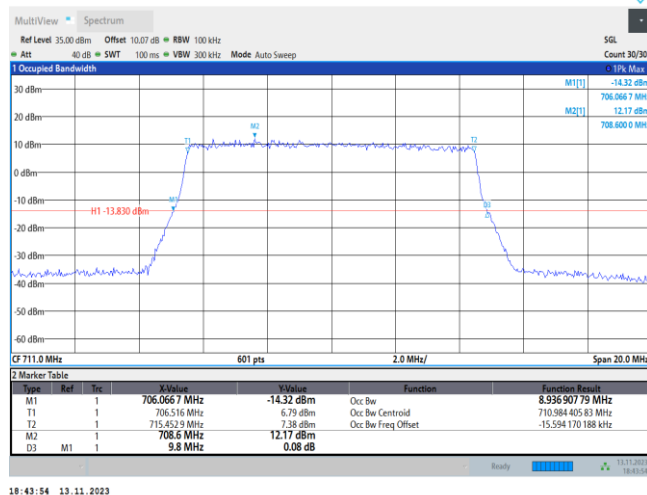
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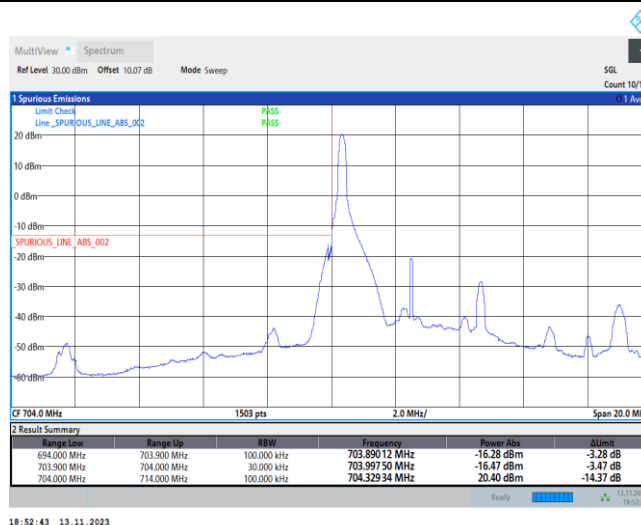
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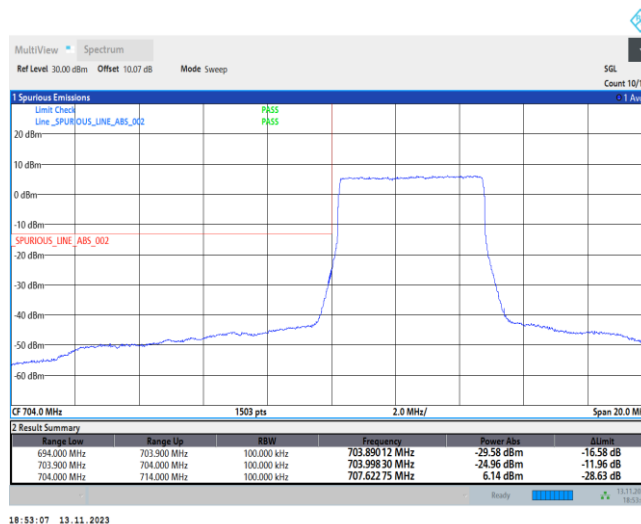
Band Edge

Test Graphs

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



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



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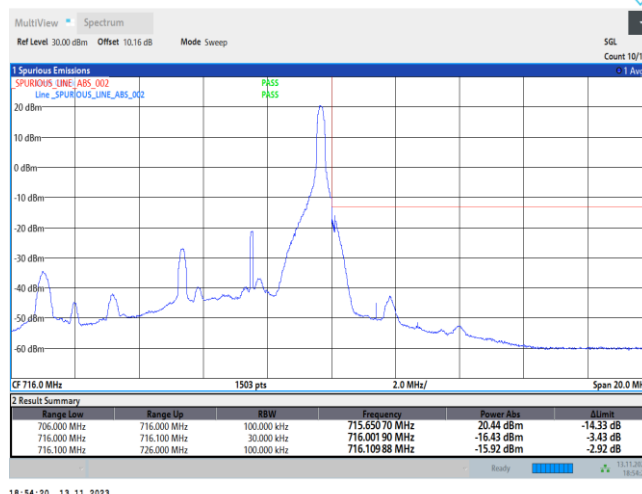
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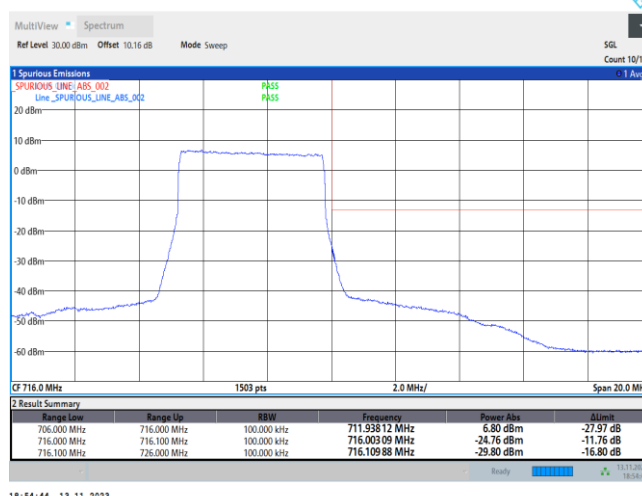
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Band17-5MHz-QPSK-23825-1RB#24



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



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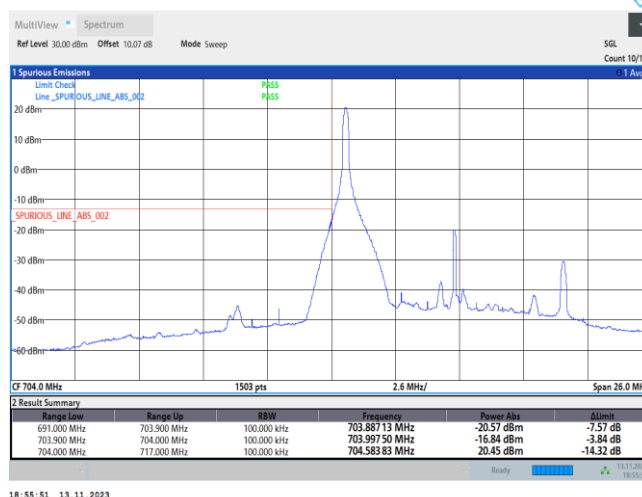
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Band17-10MHz-QPSK-23780-1RB#0



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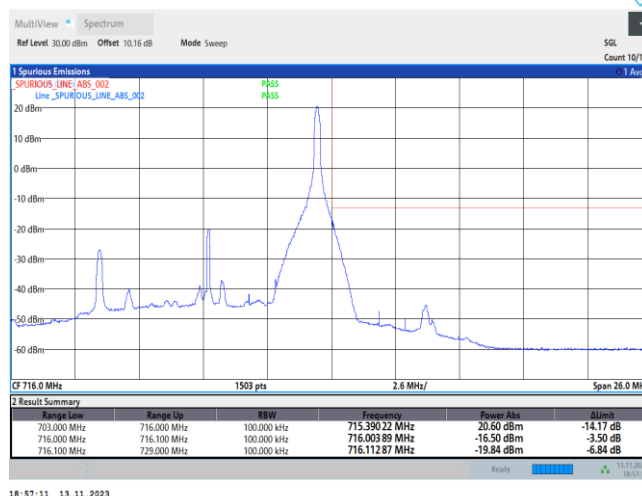
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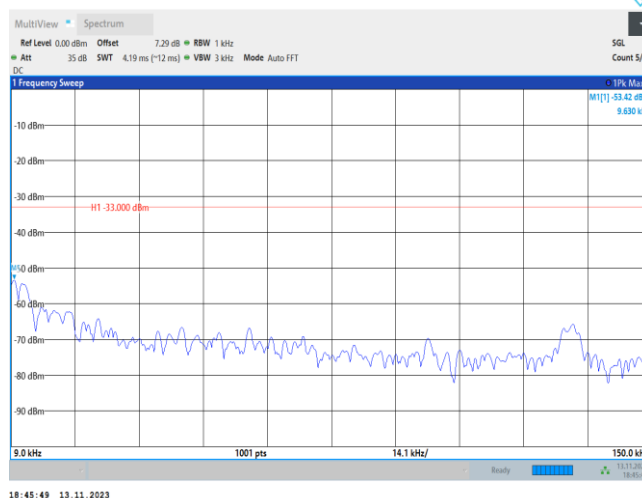
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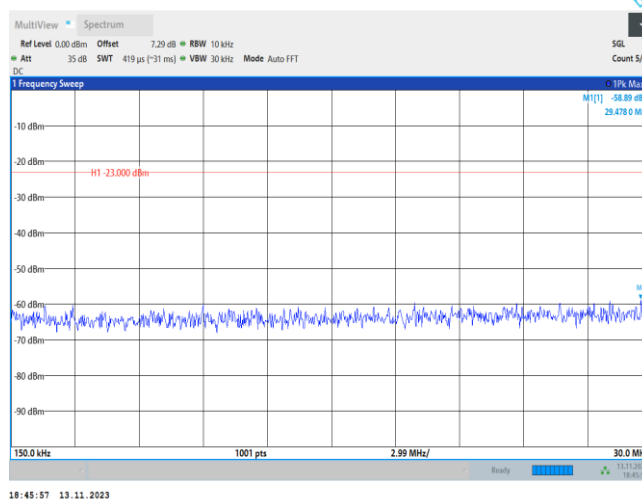
Conducted Spurious Emission

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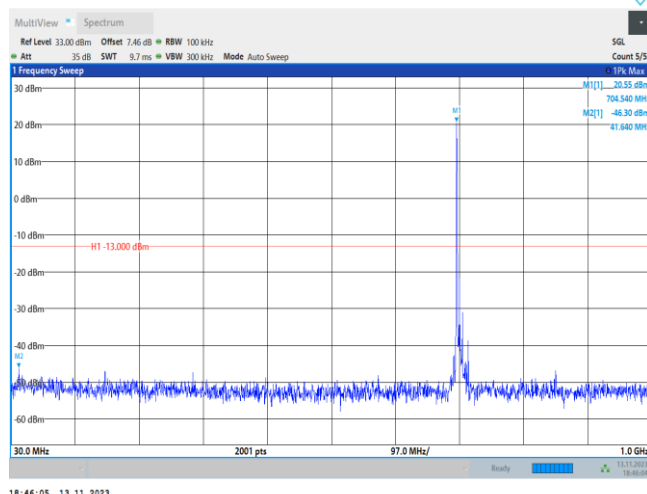
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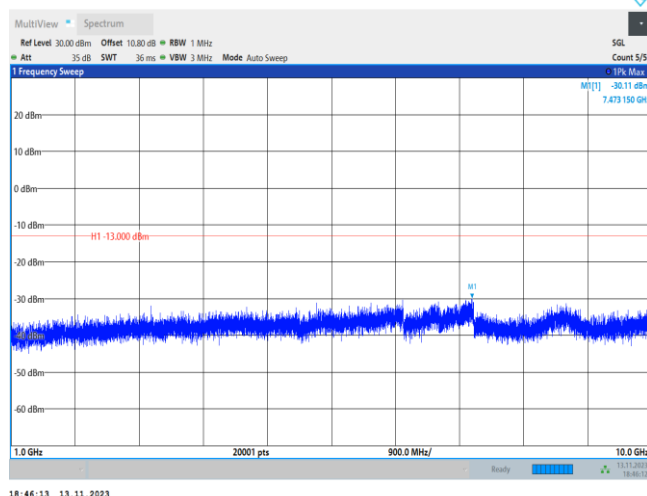
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



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



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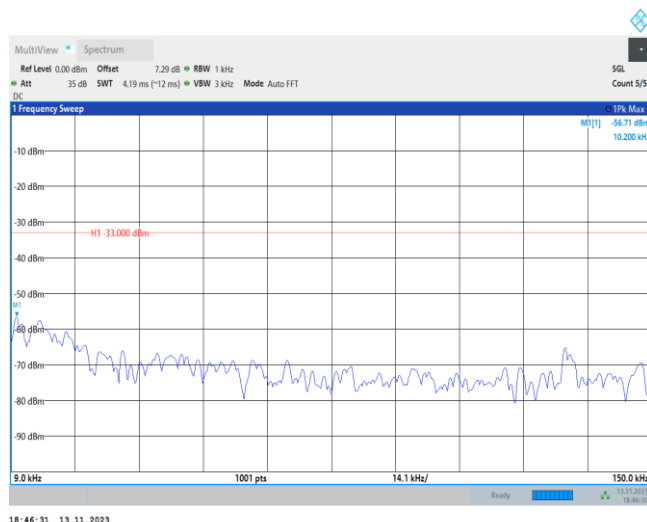
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



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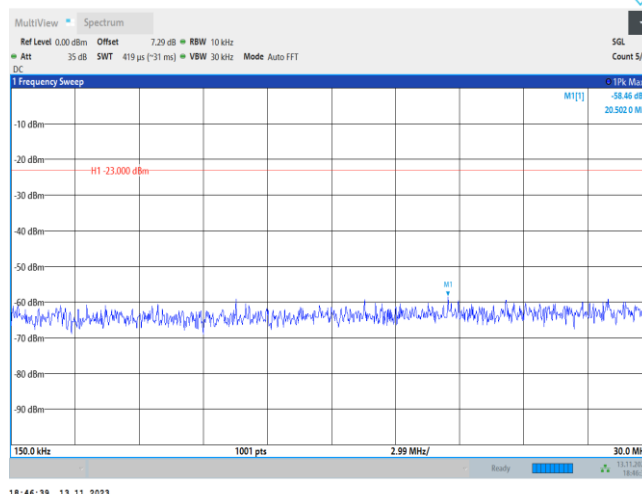
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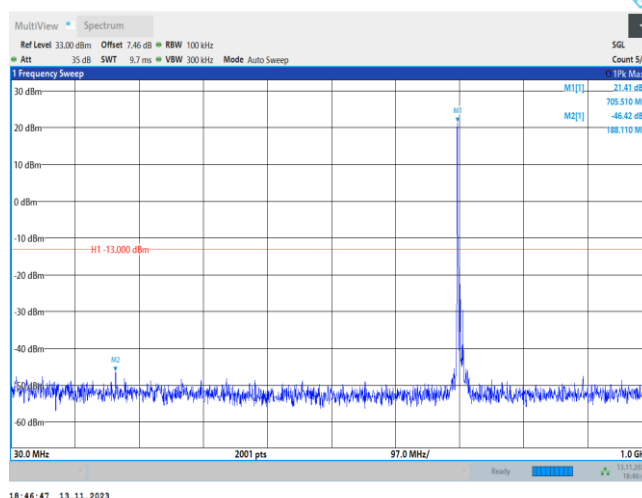
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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



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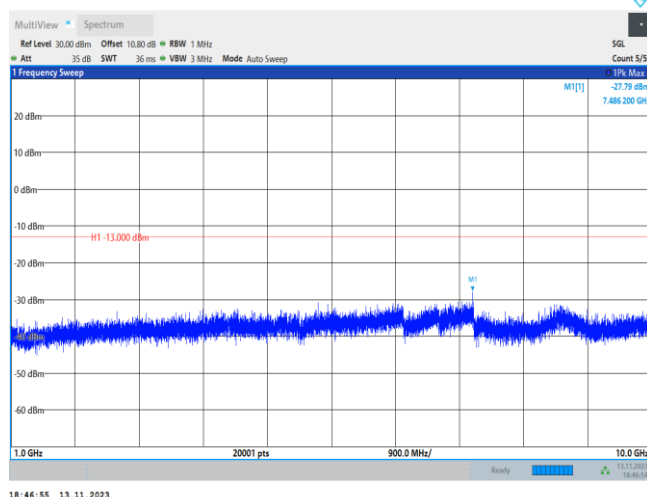
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Band17-10MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz



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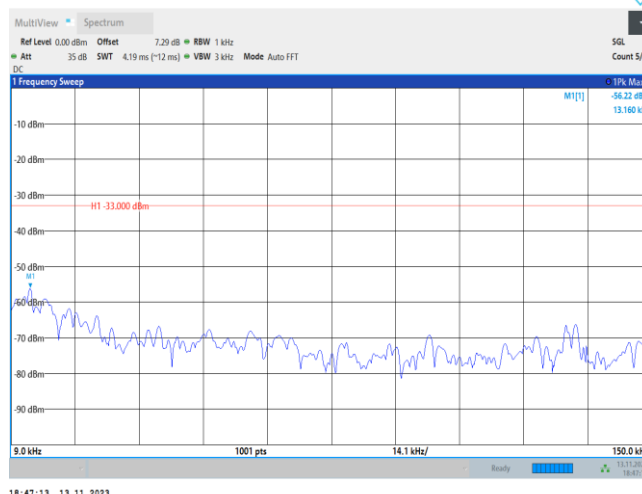
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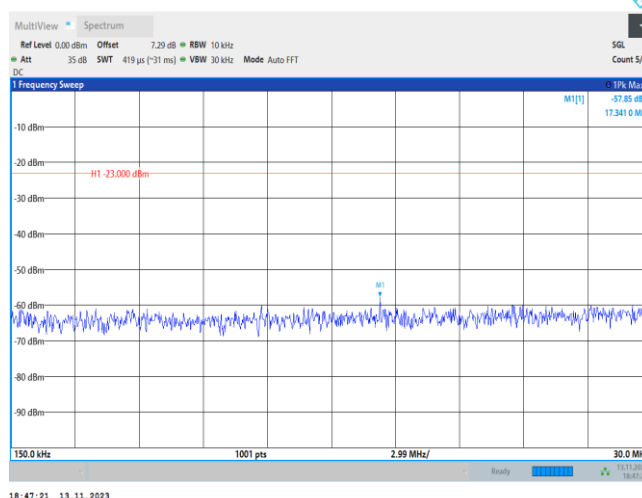
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



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



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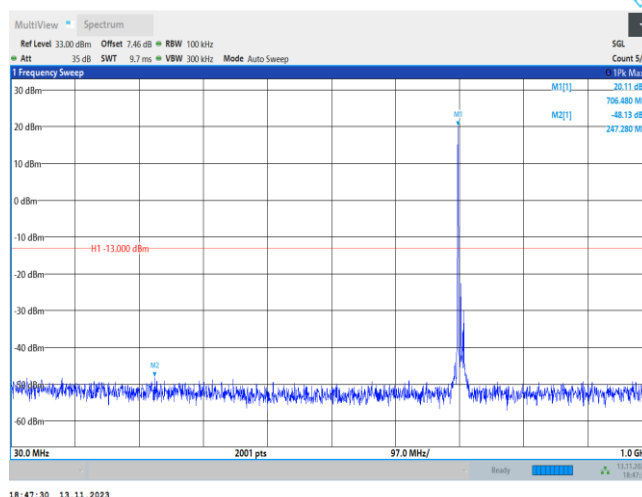
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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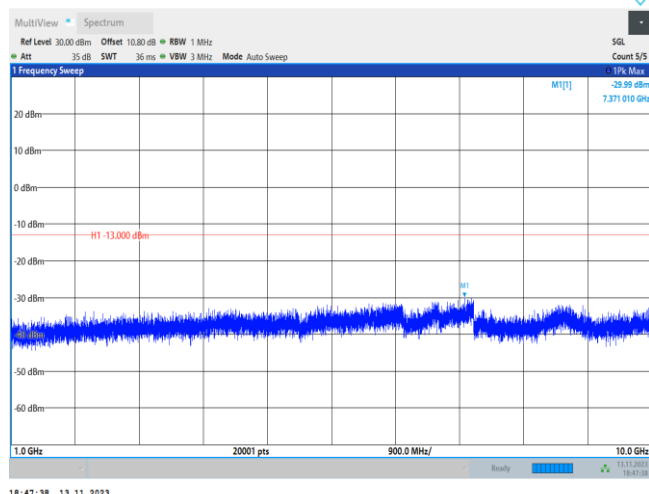
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Band17-10MHz-QPSK-23800-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation**Test Band = LTE_B17****Test Channel = LCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.5	59.91	-53.62	25.78	-63.19	-13.00	50.19	Horizontal
2	2113.5	55.42	-52.13	27.47	-64.50	-13.00	51.50	Horizontal
3	3291	52.51	-49.75	30.68	-61.82	-13.00	48.82	Horizontal
4	5133	52.11	-44.22	33.57	-53.80	-13.00	40.80	Horizontal
5	7570	49.91	-42.07	36.76	-50.66	-13.00	37.66	Horizontal
6	9474	49.23	-40.14	39.10	-47.07	-13.00	34.07	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1152	59.70	-53.37	25.89	-63.04	-13.00	50.04	Vertical
2	1409	61.84	-53.63	25.78	-61.27	-13.00	48.27	Vertical
3	1829.5	55.01	-53.01	25.76	-67.50	-13.00	54.50	Vertical
4	3012	52.87	-50.21	29.82	-62.78	-13.00	49.78	Vertical
5	5151.5	51.93	-44.32	33.56	-54.09	-13.00	41.09	Vertical
6	8532	49.25	-41.57	38.67	-48.91	-13.00	35.91	Vertical



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Test Band = LTE_B17

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411	59.17	-53.61	25.78	-63.92	-13.00	50.92	Horizontal
2	2116.5	54.37	-52.14	27.47	-65.56	-13.00	52.56	Horizontal
3	3277.5	52.53	-49.80	30.66	-61.87	-13.00	48.87	Horizontal
4	4826.5	51.96	-44.87	32.61	-55.56	-13.00	42.56	Horizontal
5	8463.5	49.26	-41.94	37.97	-49.97	-13.00	36.97	Horizontal
6	9491.5	49.03	-40.15	39.17	-47.21	-13.00	34.21	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411	60.33	-53.61	25.78	-62.76	-13.00	49.76	Vertical
2	1767	59.89	-53.08	25.57	-62.88	-13.00	49.88	Vertical
3	2822	53.35	-50.33	28.73	-63.51	-13.00	50.51	Vertical
4	4247.5	52.71	-47.26	32.07	-57.74	-13.00	44.74	Vertical
5	7559.5	49.84	-42.08	36.78	-50.72	-13.00	37.72	Vertical
6	9508.5	49.29	-40.11	39.18	-46.90	-13.00	33.90	Vertical



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Test Band = LTE_B17

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413	60.63	-53.59	25.77	-62.45	-13.00	49.45	Horizontal
2	2093.5	54.23	-52.08	27.45	-65.66	-13.00	52.66	Horizontal
3	2994.5	53.24	-50.25	29.75	-62.52	-13.00	49.52	Horizontal
4	4750	51.73	-45.11	32.20	-56.44	-13.00	43.44	Horizontal
5	7088.5	50.33	-43.33	36.76	-51.50	-13.00	38.50	Horizontal
6	9514	49.39	-40.08	39.17	-46.78	-13.00	33.78	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413	62.62	-53.59	25.77	-60.46	-13.00	47.46	Vertical
2	1774	57.57	-53.07	25.60	-65.16	-13.00	52.16	Vertical
3	2531.5	54.01	-51.01	28.19	-64.07	-13.00	51.07	Vertical
4	3986	52.52	-47.97	31.04	-59.67	-13.00	46.67	Vertical
5	5691	51.18	-43.38	33.46	-54.00	-13.00	41.00	Vertical
6	7987.5	49.93	-42.38	37.43	-50.28	-13.00	37.28	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	-6.50	-0.009155	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-4.80	-0.006761	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-5.40	-0.007606	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	-4.70	-0.006620	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-5.80	-0.008169	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-5.80	-0.008169	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-8.50	-0.011972	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-8.30	-0.011690	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-5.10	-0.007183	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-9.10	-0.012817	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-3.80	-0.005352	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-8.40	-0.011831	PASS

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