Appendix B.5

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	23.31	12.58	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.4	12.67	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.3	11.57	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.2	11.47	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.13	12.4	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.79	12.06	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.3	11.57	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.84	11.11	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.44	11.71	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.87	12.14	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	23.38	12.65	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.63	10.9	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.83	12.1	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.54	11.81	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.56	10.83	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.17	10.44	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	21.94	11.21	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.78	11.05	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.3	10.57	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.88	10.15	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.34	10.61	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.82	11.09	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.54	11.81	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.65	9.92	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.33	12.6	34.77	PASS

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Band17	10MHz	QPSK	23780	1RB#24	22.9	12.17	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.18	11.45	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.96	11.23	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	23.36	12.63	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.88	12.15	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.77	12.04	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.01	11.28	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.42	12.69	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.62	11.89	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	23.33	12.6	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.83	11.1	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.25	11.52	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	21.85	11.12	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.19	10.46	34.77	PASS
Band17	10MHz	16QAM	23780	27RB#0	21.91	11.18	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.54	11.81	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.8	11.07	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.57	10.84	34.77	PASS
Band17	10MHz	16QAM	23790	27RB#0	21.69	10.96	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.28	11.55	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	21.39	10.66	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	22.17	11.44	34.77	PASS
Band17	10MHz	16QAM	23800	27RB#0	21.43	10.7	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	5.66	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.70	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.64	13	PASS
Band17	10MHz	16QAM	23780	27RB#0	6.34	13	PASS
Band17	10MHz	16QAM	23790	27RB#0	6.40	13	PASS
Band17	10MHz	16QAM	23800	27RB#0	6.40	13	PASS

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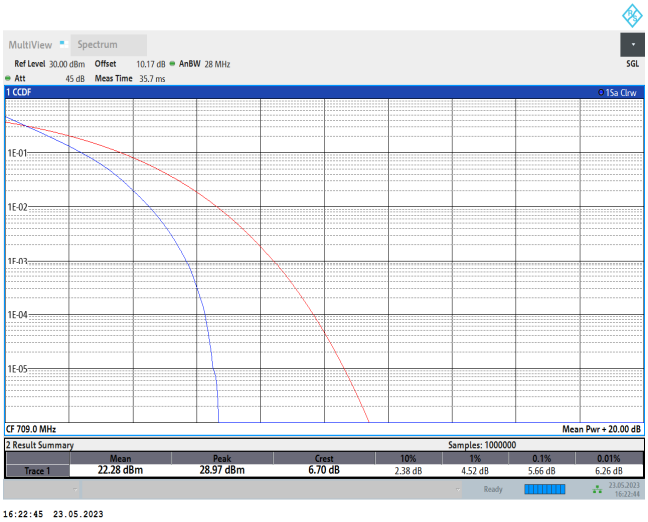
Test Graphs

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



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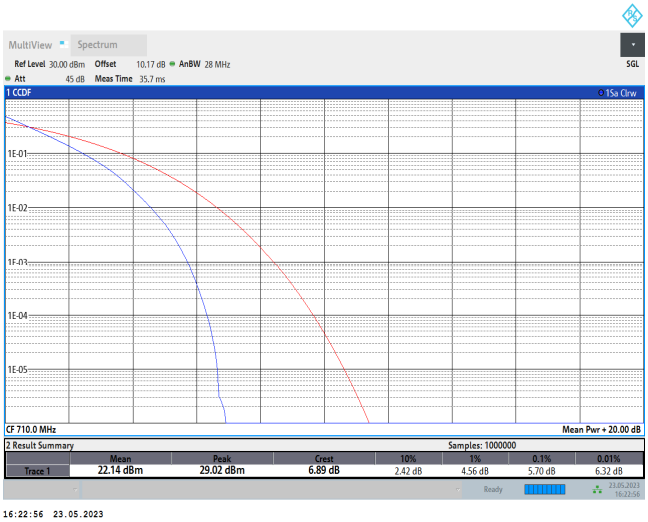

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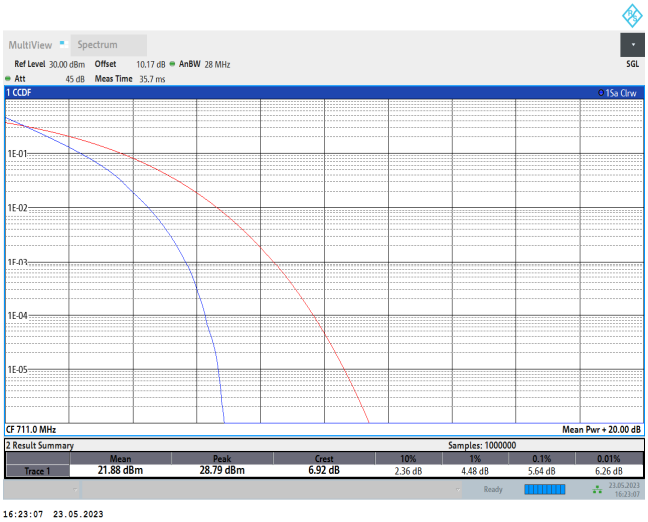
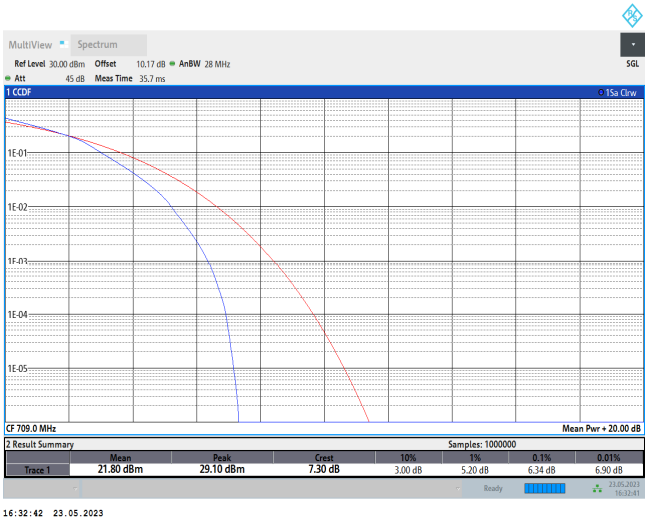
Band17-10MHz-QPSK-23800-50RB#0



Band17-10MHz-16QAM-23780-27RB#0



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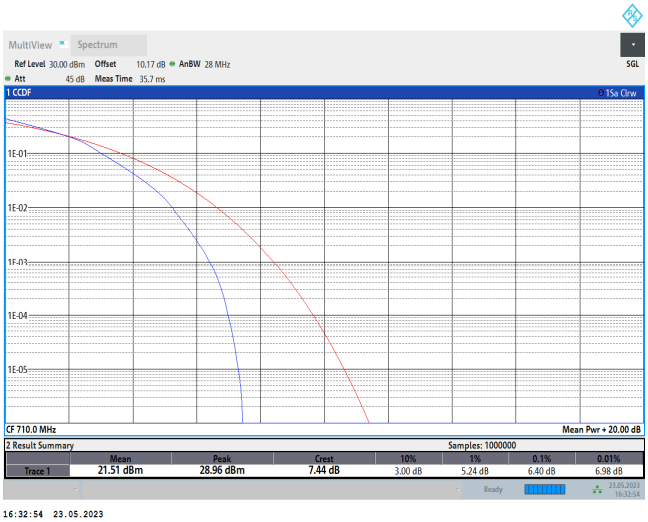
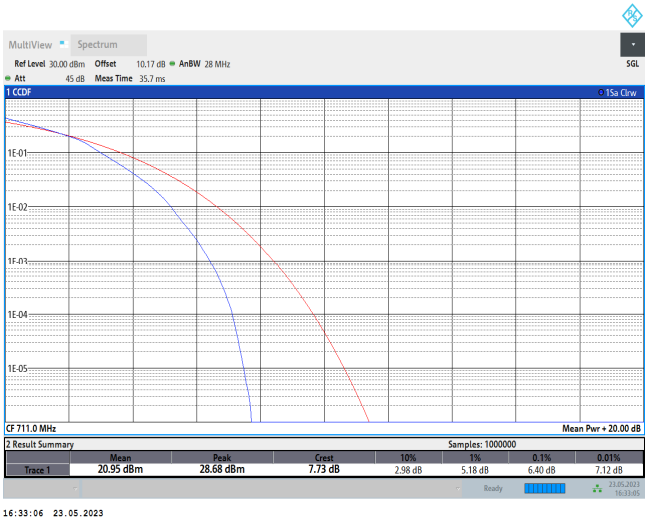
Band17-10MHz-16QAM-23790-27RB#0



Band17-10MHz-16QAM-23800-27RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band17	10MHz	QPSK	23800	50RB#0	PASS	PASS
Band17	10MHz	16QAM	23800	27RB#0	PASS	PASS

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Test Graphs

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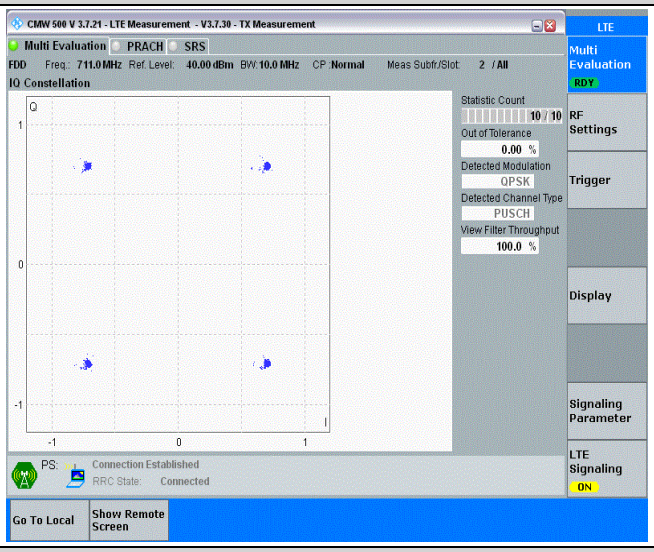
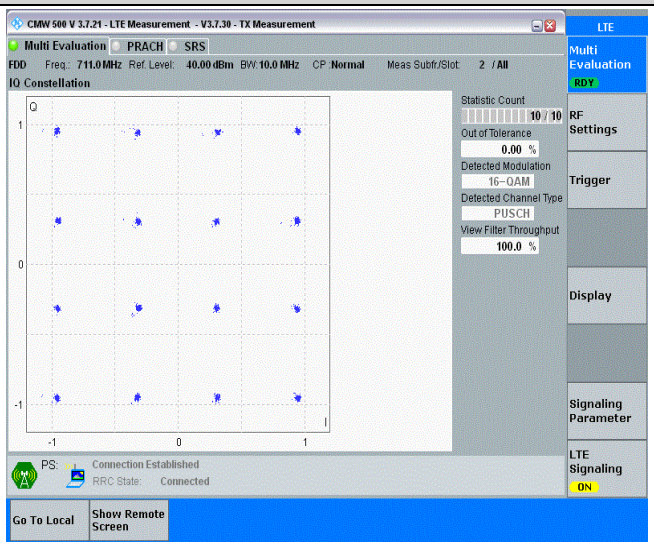


Band17-10MHz-16QAM-23800-27RB#0


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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	4.464	4.97	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.45	5.00	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.459	4.98	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.451	4.94	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.452	5.01	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.46	5.00	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.906	9.60	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.892	9.60	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.89	9.53	PASS
Band17	10MHz	16QAM	23780	27RB#0	4.927	6.63	PASS
Band17	10MHz	16QAM	23790	27RB#0	4.937	6.47	PASS
Band17	10MHz	16QAM	23800	27RB#0	4.939	6.27	PASS

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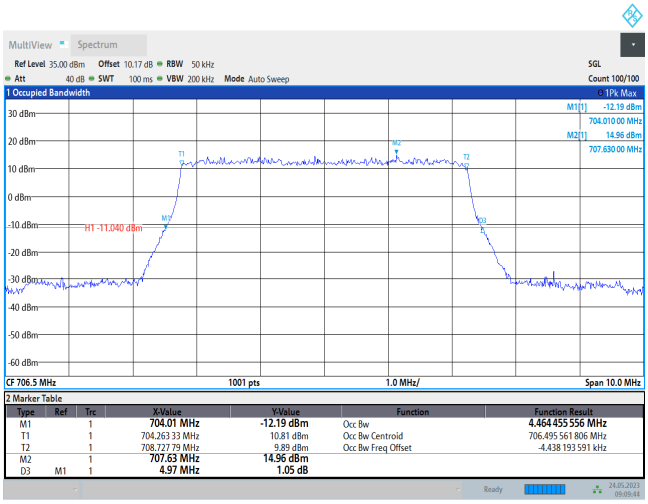
Test Graphs

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



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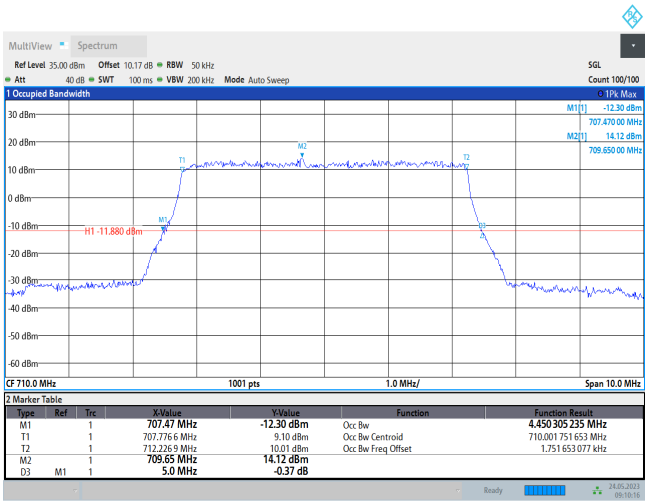
Band17-5MHz-QPSK-23790-25RB#0



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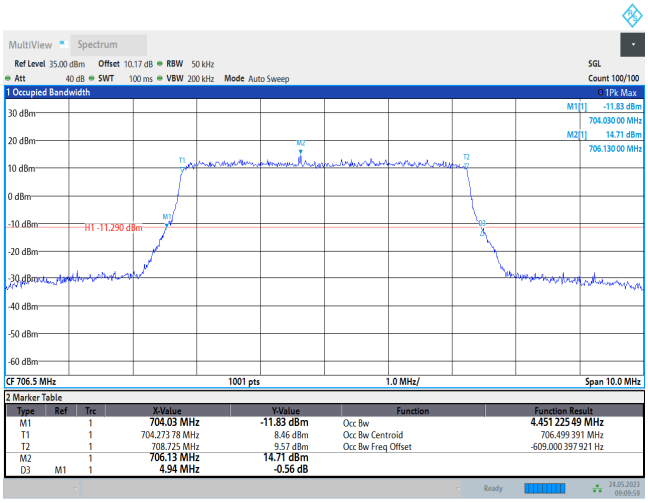
Band17-5MHz-QPSK-23825-25RB#0

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



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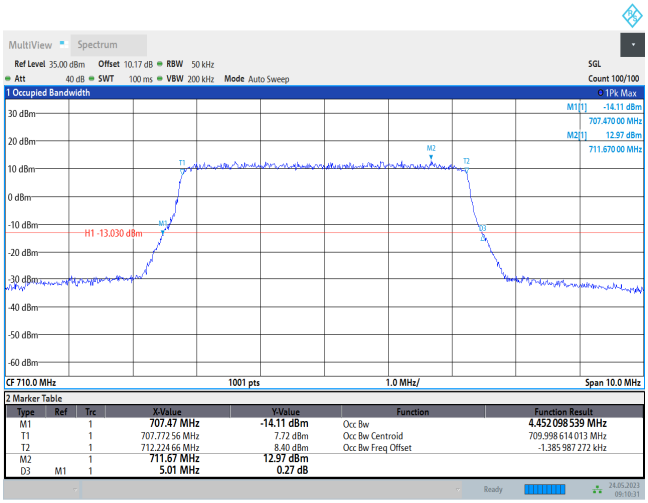
Band17-5MHz-16QAM-23790-25RB#0



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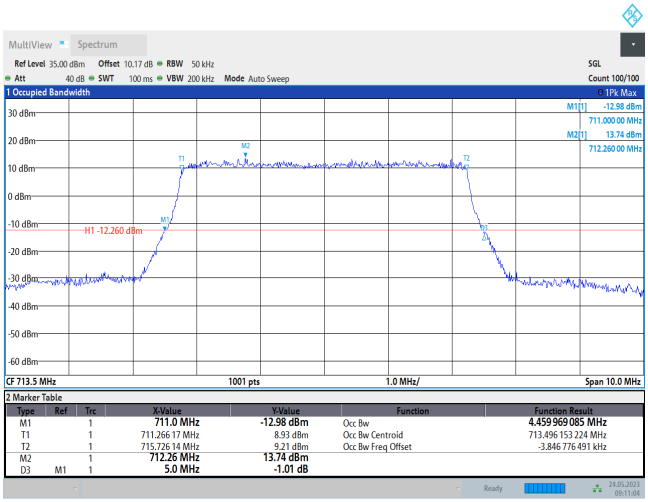
Band17-5MHz-16QAM-23825-25RB#0



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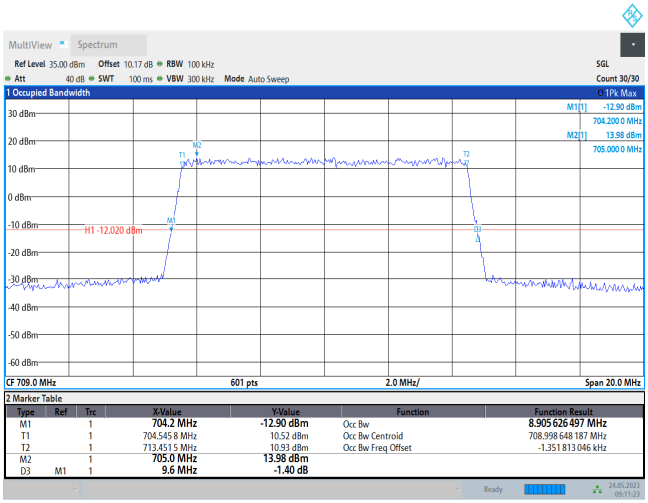
Band17-10MHz-QPSK-23780-50RB#0



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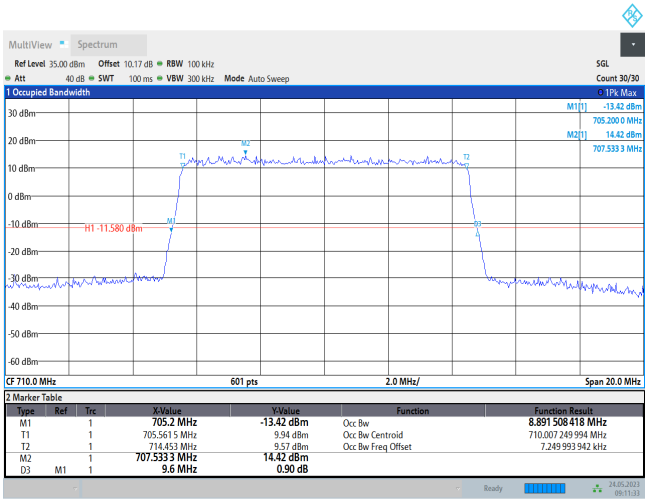
Band17-10MHz-QPSK-23790-50RB#0



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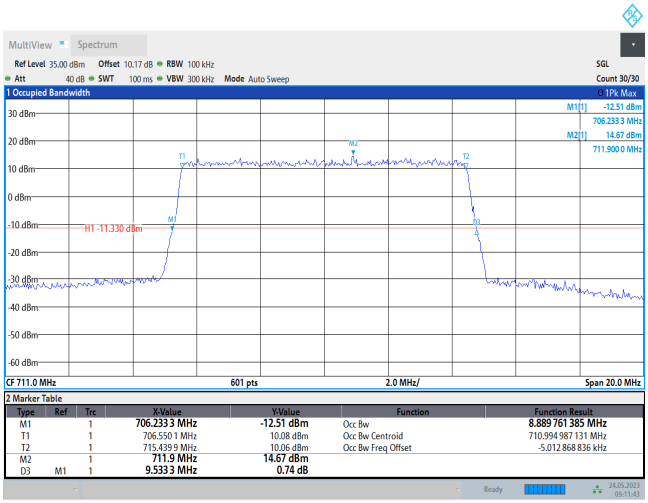
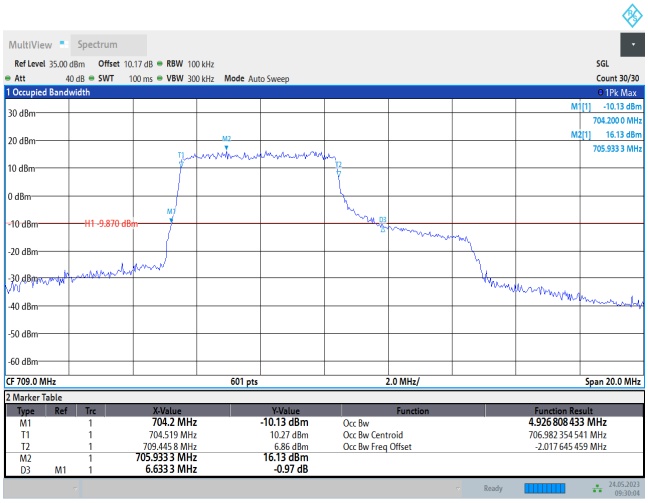
Band17-10MHz-QPSK-23800-50RB#0



Band17-10MHz-16QAM-23780-27RB#0



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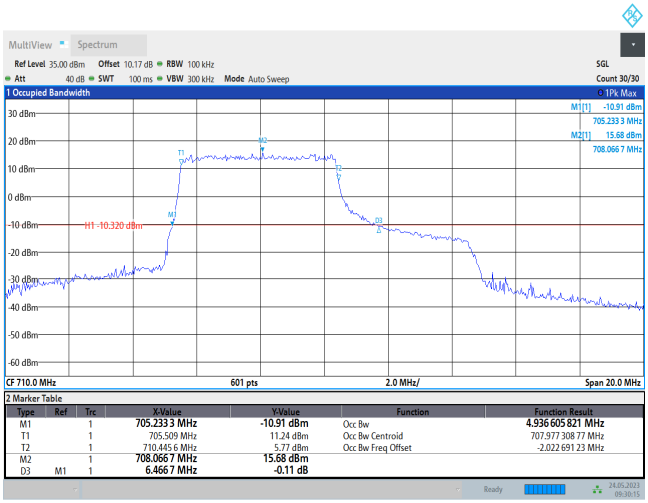
Band17-10MHz-16QAM-23790-27RB#0



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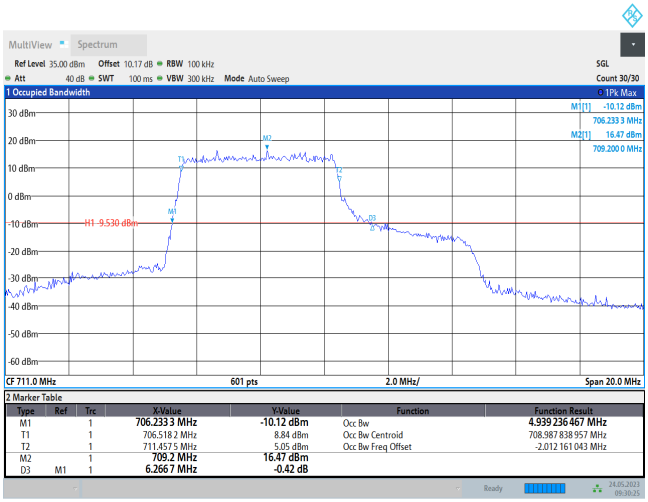
Band17-10MHz-16QAM-23800-27RB#0



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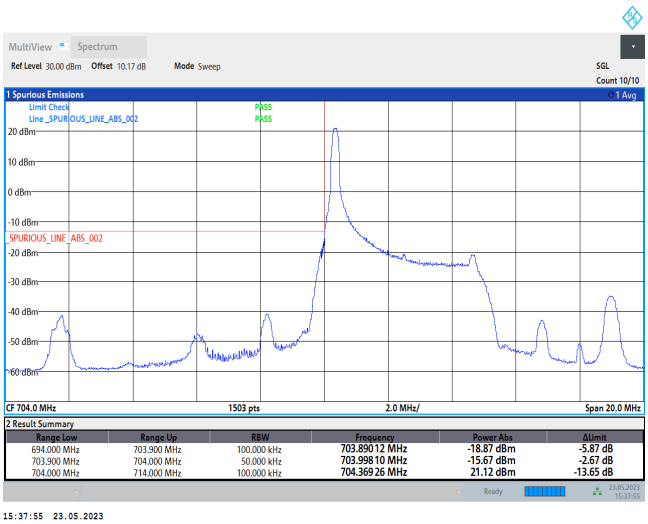
Band Edge

Test Graphs

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



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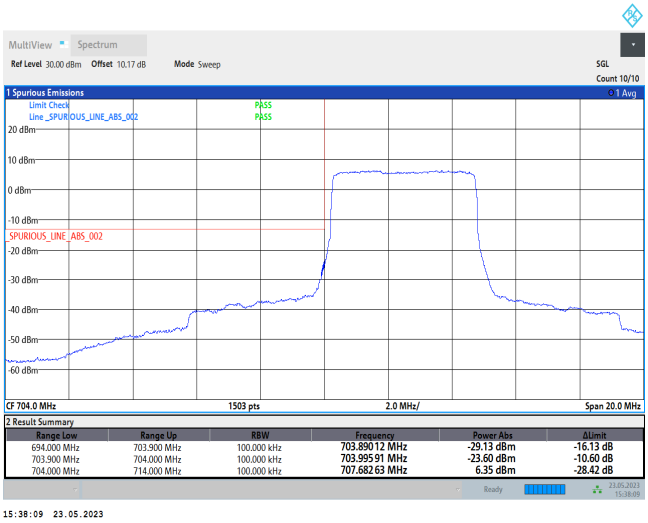

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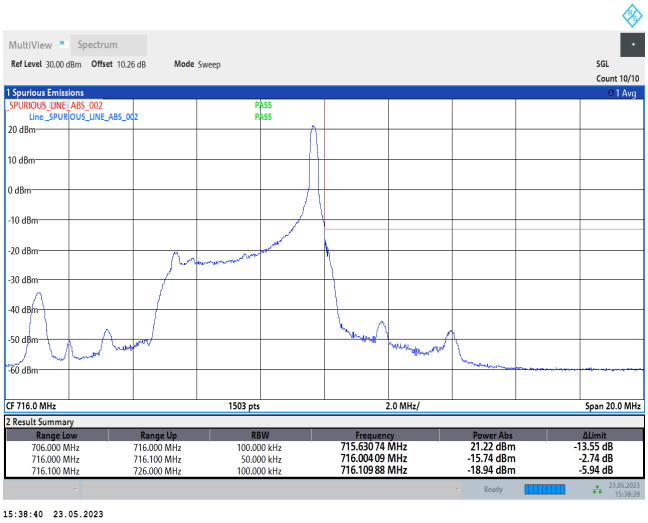
Band17-5MHz-QPSK-23825-1RB#24



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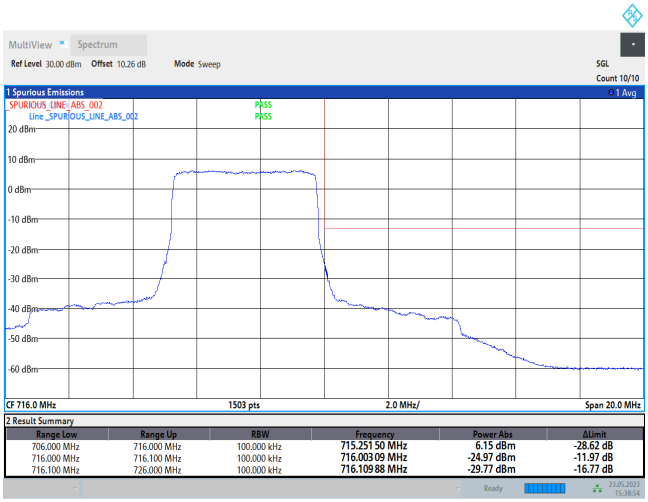
Band17-5MHz-QPSK-23825-25RB#0



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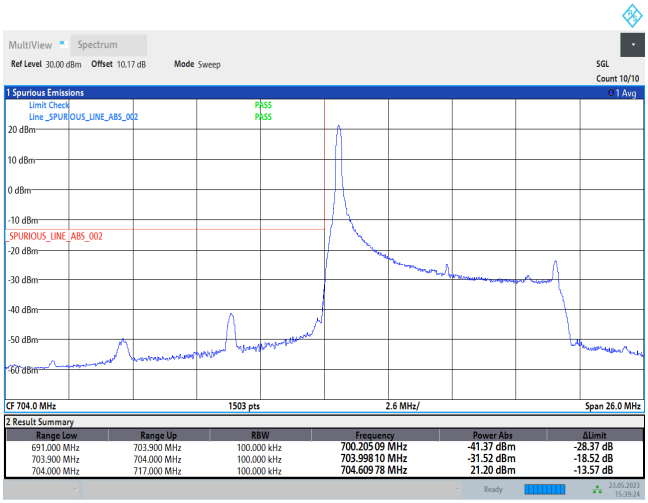
Band17-10MHz-QPSK-23780-1RB#0



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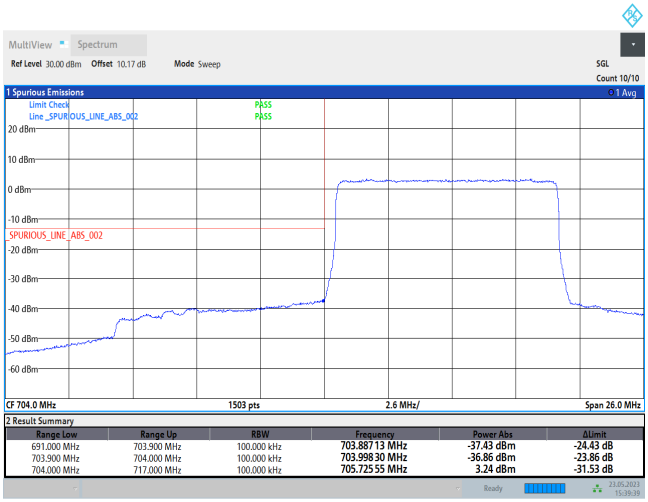
Band17-10MHz-QPSK-23780-50RB#0



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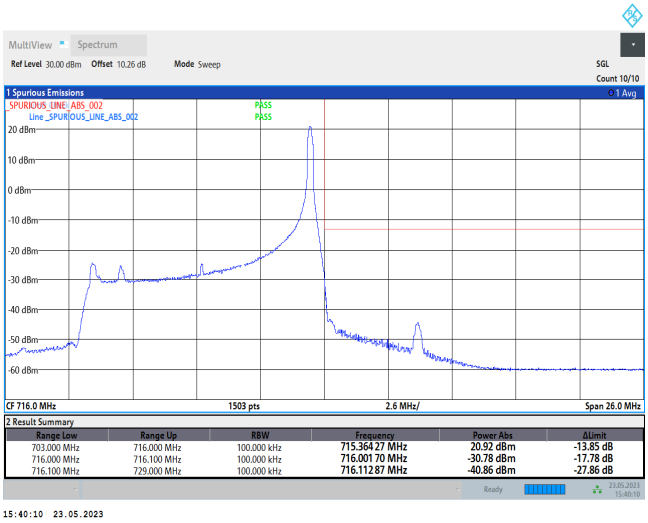
Band17-10MHz-QPSK-23800-1RB#49



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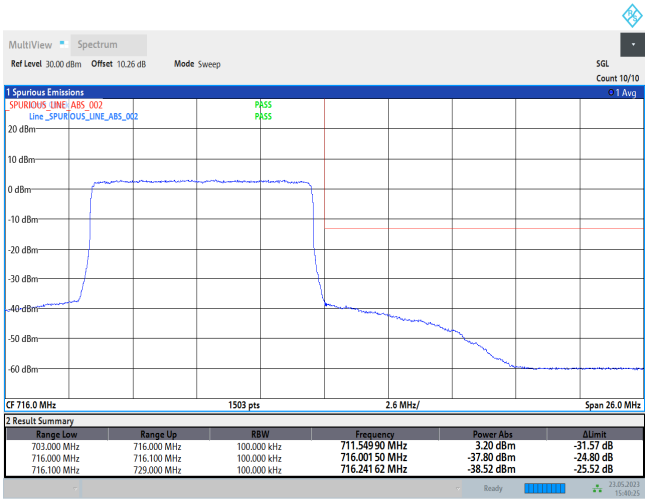
Band17-10MHz-QPSK-23800-50RB#0



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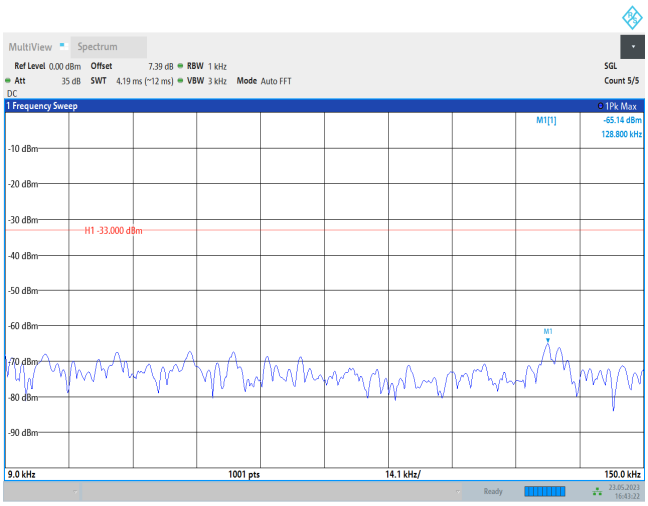
Conducted Spurious Emission

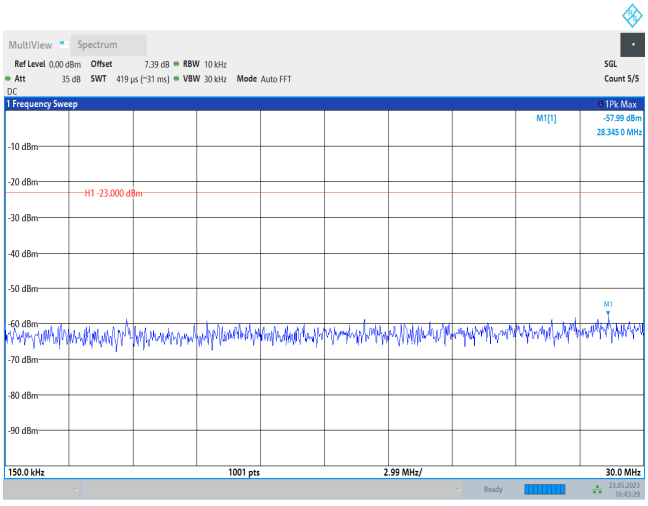
Test Graphs

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



16:43:22 23.05.2023

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



16:43:29 23.05.2023

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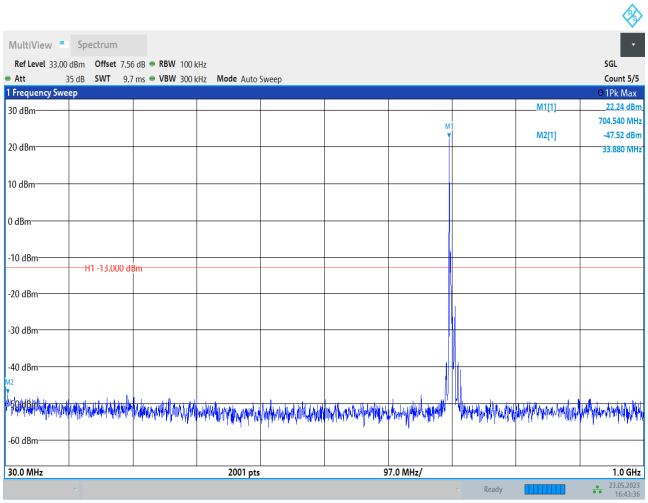
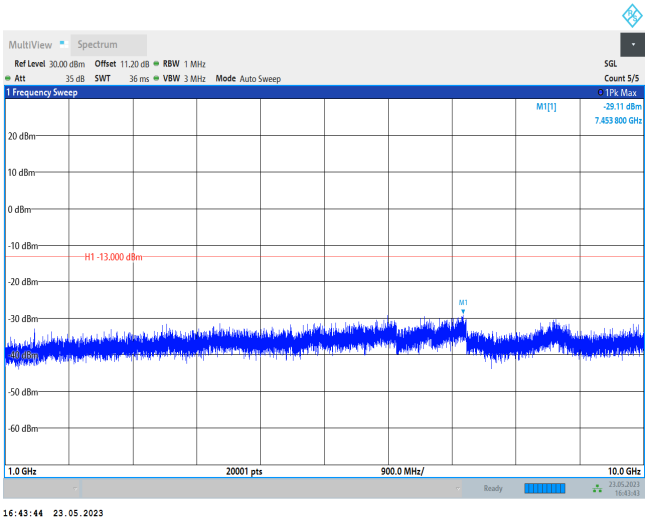
Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



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



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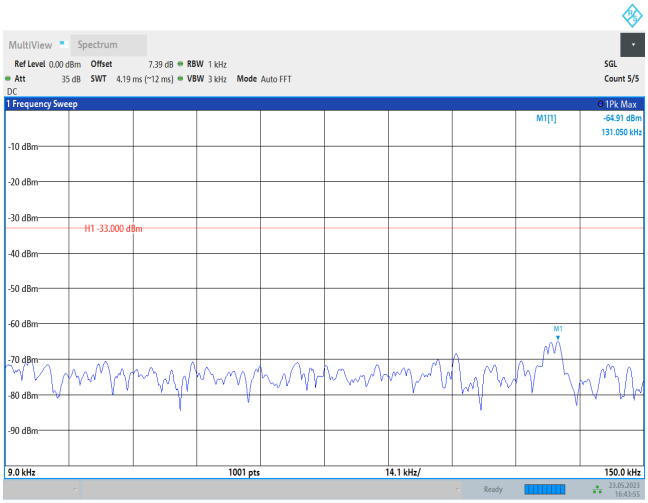
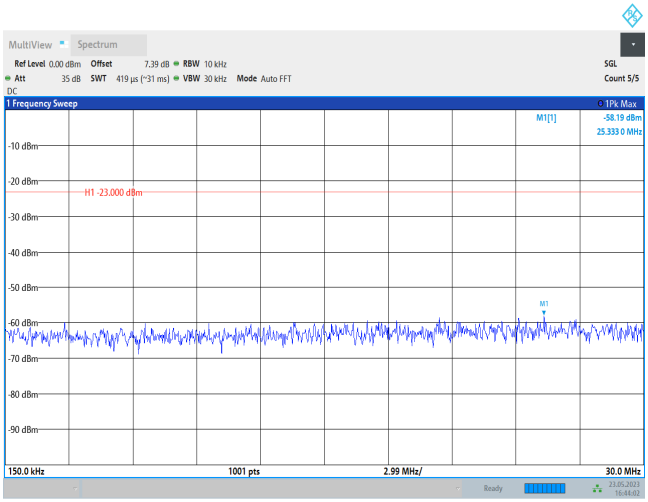
Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



16:43:55 23.05.2023

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



16:44:03 23.05.2023

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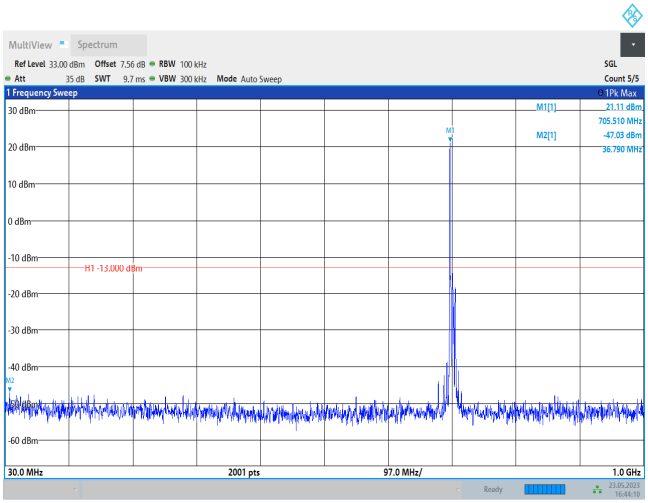
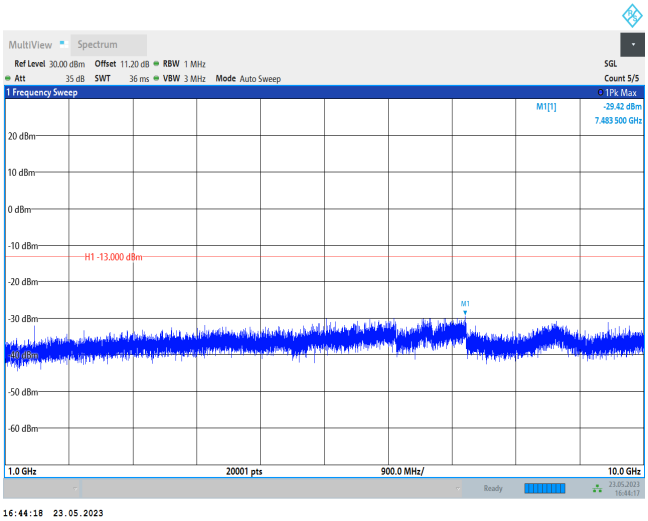
Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



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



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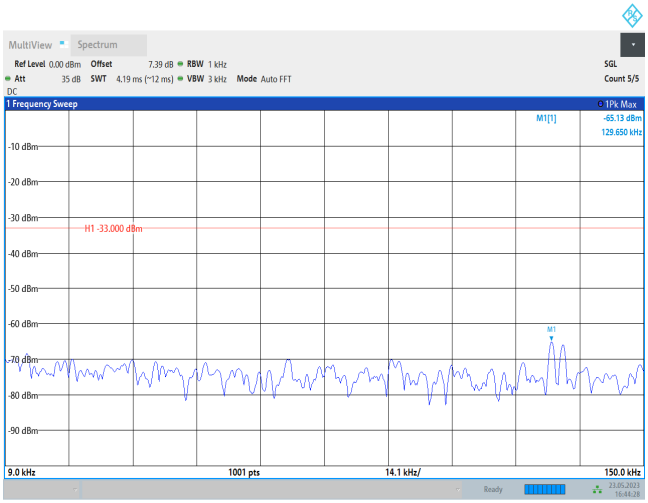
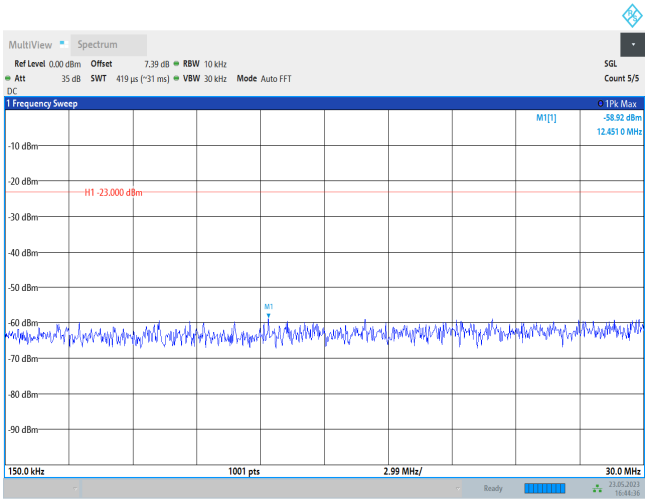
Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



16:44:29 23.05.2023

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



16:44:37 23.05.2023

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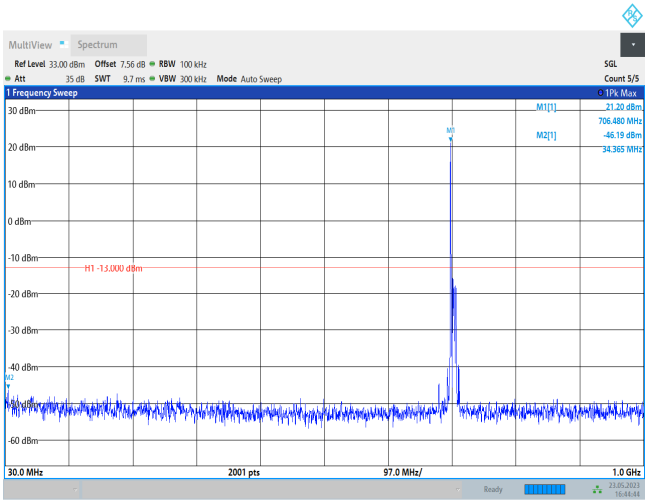
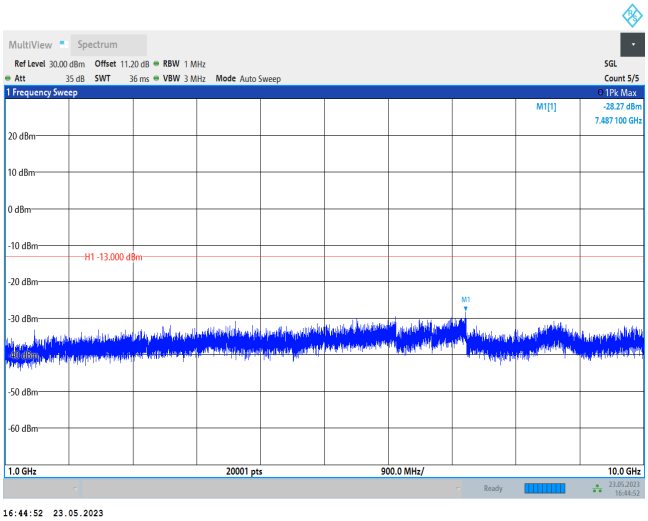
Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

Test Band = LTE_17 _TM1_10MHz
Test Channel = LCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1409.0511	39.71	-19.29	25.78	-49.06	-13.00	36.06	263	99	Horizontal
2	2113.6392	26.19	-18.47	27.47	-60.07	-13.00	47.07	254	52	Horizontal
3	2818.4773	30.45	-17.07	28.71	-53.17	-13.00	40.17	189	78	Horizontal
4	3522.9261	77.22	-49.34	29.94	-37.44	-13.00	24.44	226	305	Horizontal
5	5700.735	49.96	-44.74	33.51	-56.53	-13.00	43.53	320	89	Horizontal
6	8999.3	48.58	-41.66	38.80	-49.54	-13.00	36.54	254	84	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1409.3012	36.27	-19.28	25.78	-52.49	-13.00	39.49	199	182	Vertical
2	2818.4773	30.75	-17.07	28.71	-52.87	-13.00	39.87	263	327	Vertical
3	3522.9261	72.62	-49.34	29.94	-42.04	-13.00	29.04	325	219	Vertical
4	5175.7088	50.26	-46.71	32.93	-58.78	-13.00	45.78	254	120	Vertical
5	7484.0742	49.44	-43.29	36.63	-52.48	-13.00	39.48	118	357	Vertical
6	9020.651	48.76	-41.74	38.76	-49.48	-13.00	36.48	226	55	Vertical

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Test Band = LTE_17 _TM1_10MHz
Test Channel = MCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1411.3014	44.63	-19.28	25.78	-44.13	-13.00	31.13	245	308	Horizontal
2	2116.8896	30.20	-18.49	27.47	-56.08	-13.00	43.08	256	52	Horizontal
3	2822.4778	33.81	-17.11	28.73	-49.83	-13.00	36.83	332	124	Horizontal
4	3528.1764	65.74	-49.41	29.97	-48.96	-13.00	35.96	254	301	Horizontal
5	6658.7329	50.46	-44.81	36.05	-53.56	-13.00	40.56	106	301	Horizontal
6	9028.7014	48.24	-41.78	38.74	-50.06	-13.00	37.06	330	335	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1411.3014	30.64	-19.28	25.78	-58.12	-13.00	45.12	263	155	Vertical
2	2116.8896	27.57	-18.49	27.47	-58.71	-13.00	45.71	257	137	Vertical
3	2822.4778	28.40	-17.11	28.73	-55.24	-13.00	42.24	251	101	Vertical
4	3527.8264	62.76	-49.41	29.97	-51.94	-13.00	38.94	189	262	Vertical
5	5502.6251	50.99	-45.46	33.11	-56.62	-13.00	43.62	256	360	Vertical
6	9459.923	47.66	-41.37	39.04	-49.93	-13.00	36.93	320	144	Vertical

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Test Band = LTE_17 _TM1_10MHz
Test Channel = HCH

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1413.3017	43.64	-19.27	25.77	-45.12	-13.00	32.12	196	312	Horizontal
2	2119.89	28.17	-18.52	27.46	-58.15	-13.00	45.15	325	142	Horizontal
3	2963.9955	27.31	-16.86	29.44	-55.37	-13.00	42.37	287	327	Horizontal
4	3533.0767	61.60	-49.48	30.00	-53.14	-13.00	40.14	148	222	Horizontal
5	5509.6255	50.85	-45.46	33.12	-56.75	-13.00	43.75	226	65	Horizontal
6	9808.1904	51.10	-41.58	38.88	-46.86	-13.00	33.86	324	256	Horizontal

Final Data List										
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF [dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle[°]	Polarity
1	1413.3017	28.82	-19.27	25.77	-59.94	-13.00	46.94	235	48	Vertical
2	2119.64	27.76	-18.51	27.46	-58.55	-13.00	45.55	221	360	Vertical
3	2826.2283	26.86	-17.14	28.76	-56.78	-13.00	43.78	189	248	Vertical
4	3533.0767	75.82	-49.48	30.00	-38.92	-13.00	25.92	111	251	Vertical
5	5723.4862	50.61	-45.30	33.69	-56.26	-13.00	43.26	226	310	Vertical
6	9808.1904	50.64	-41.58	38.88	-47.32	-13.00	34.32	325	197	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 (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-9.53	-0.013423	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-8.48	-0.011944	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-8.87	-0.012493	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-9.00	-0.012676	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	-9.38	-0.013211	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-8.63	-0.012155	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	-7.70	-0.010845	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-8.21	-0.011563	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-9.71	-0.013676	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-9.36	-0.013183	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	-8.13	-0.011451	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-7.72	-0.010873	PASS

---End of Attachment---

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