

Report No.: XEWM2305000213RG01

Rev.: 01

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Appendix B.5

LTE Band 17



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

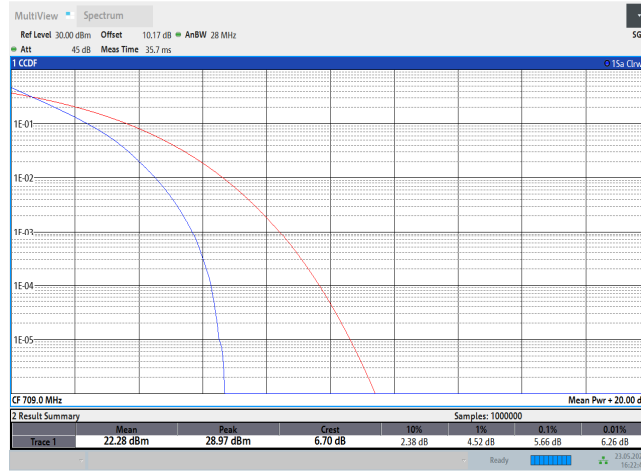


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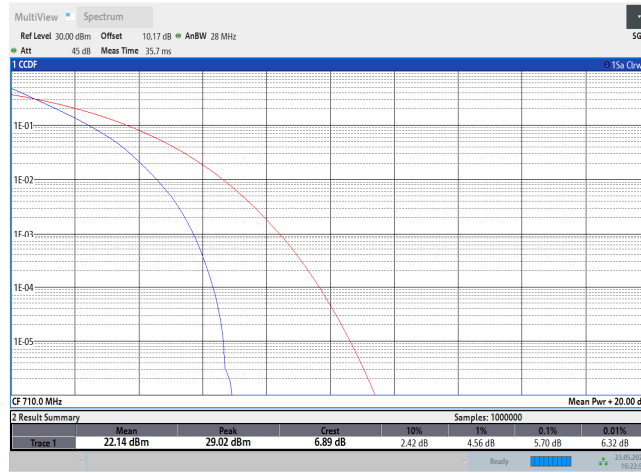
Test Graphs

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



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

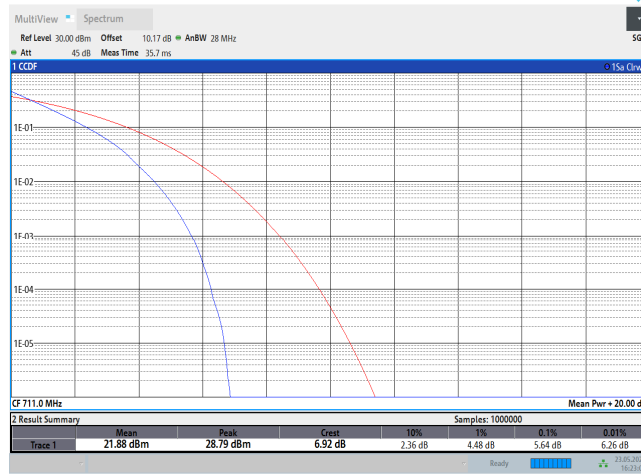


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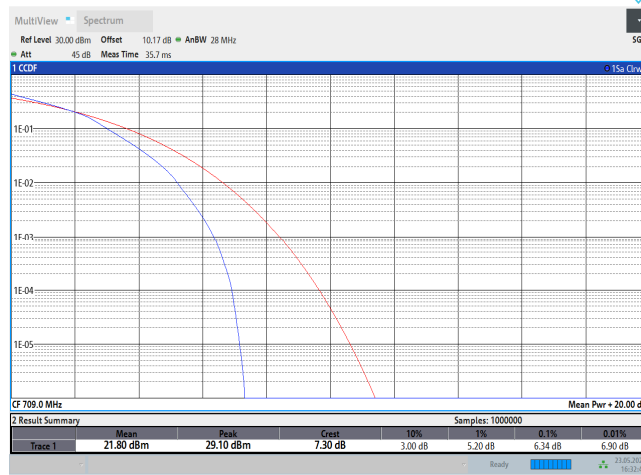
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Band17-10MHz-QPSK-23800-50RB#0



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



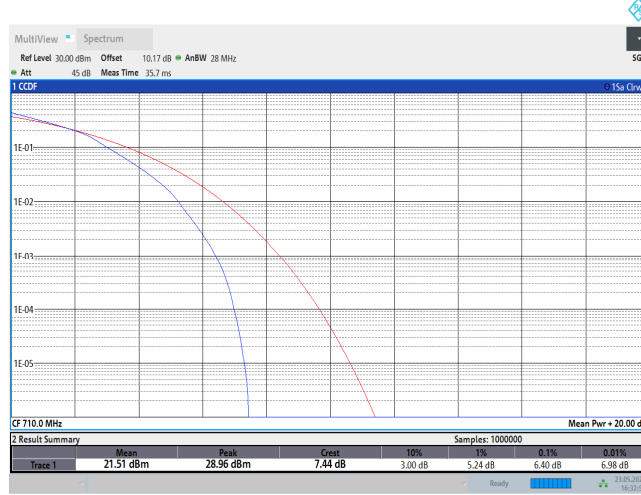
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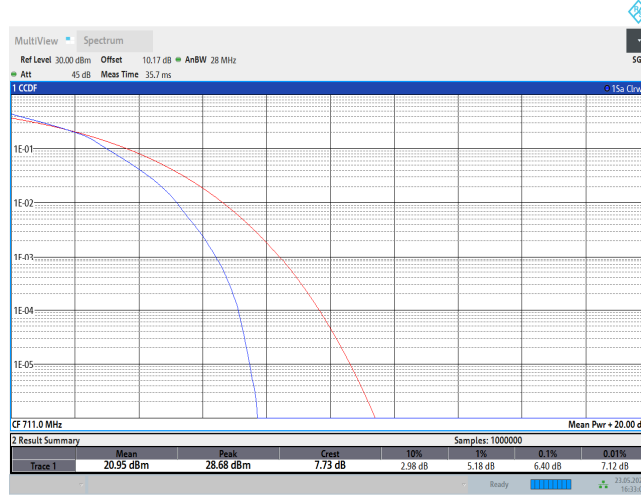
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Band17-10MHz-16QAM-23790-27RB#0



16:32:54 23.05.2023

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



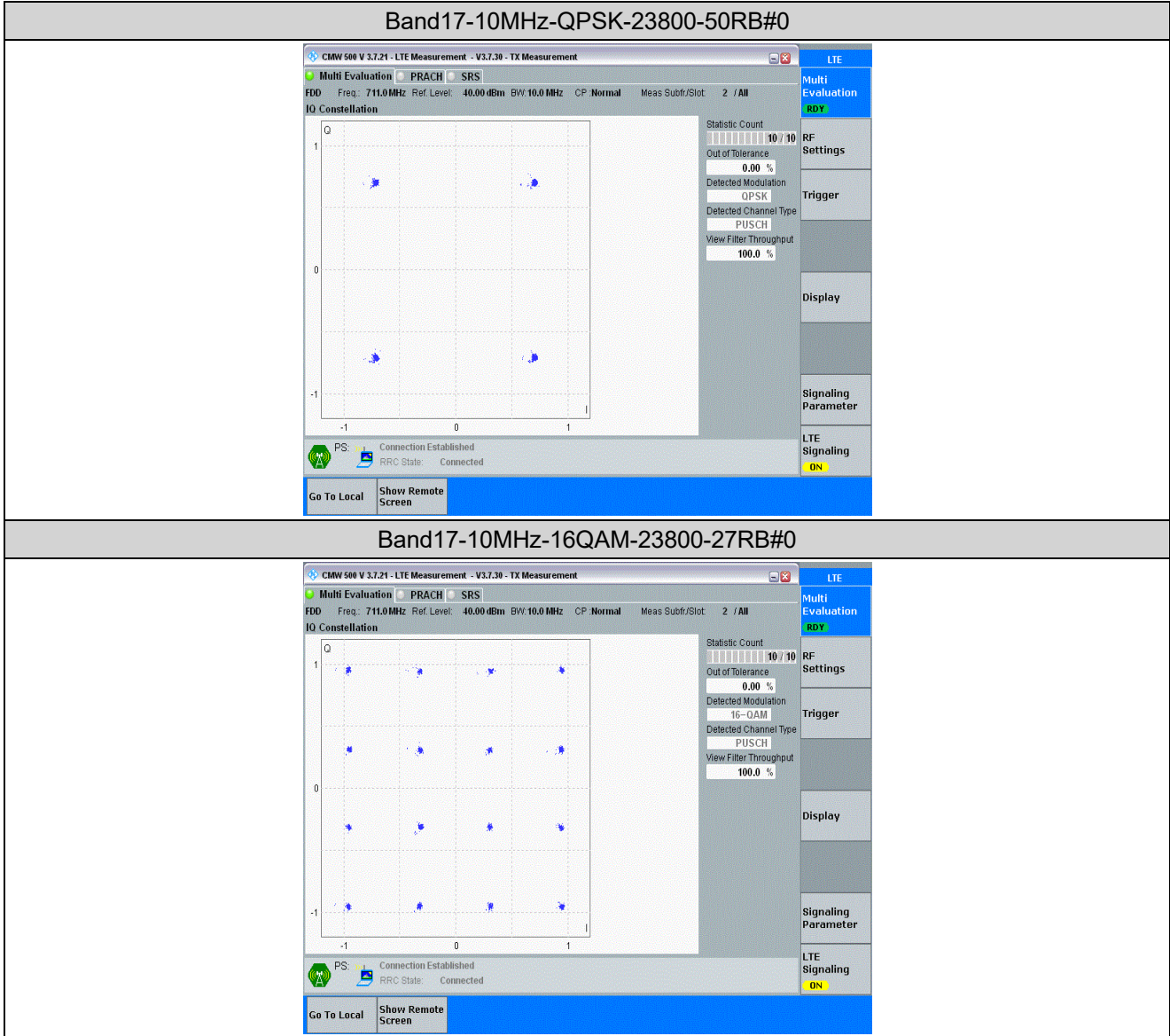
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Test Graphs



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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

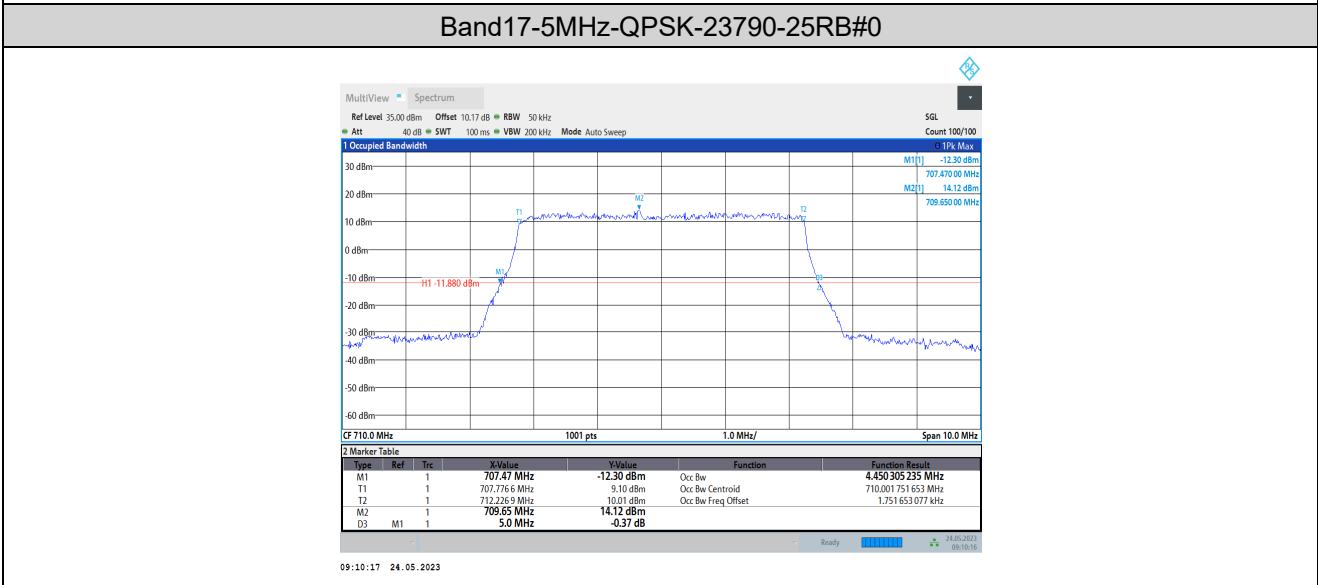
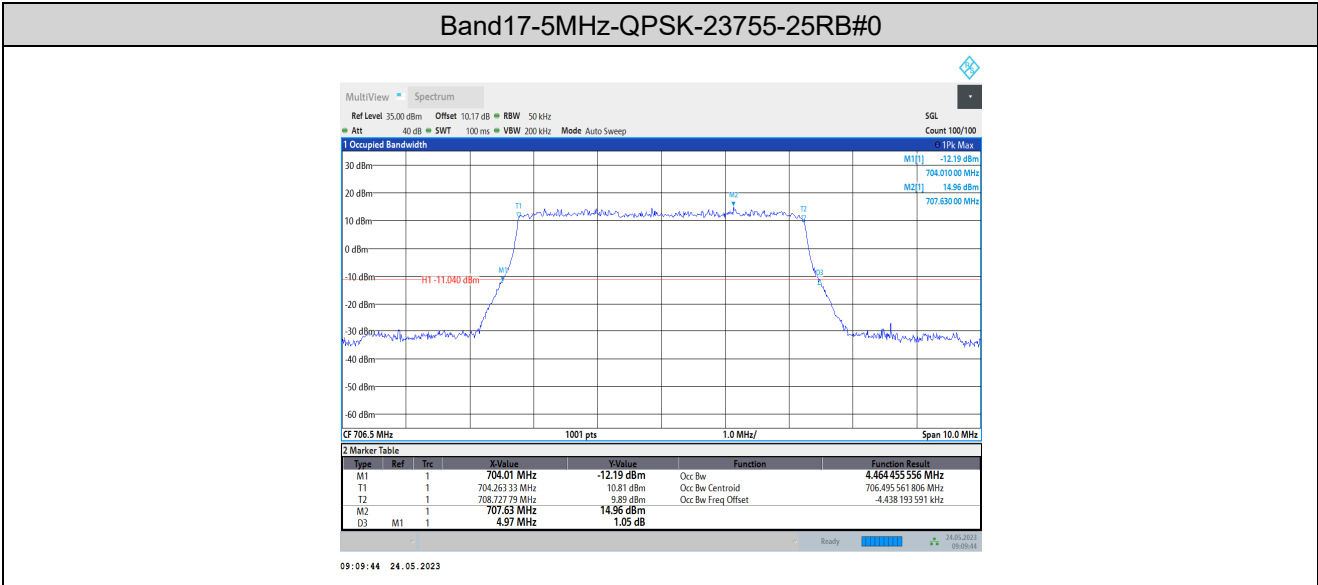


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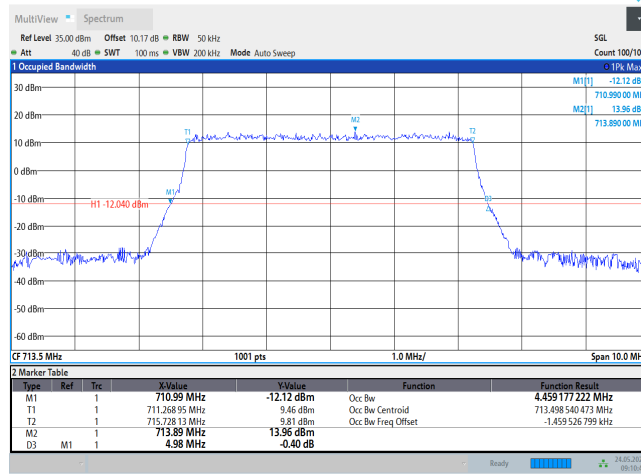
Test Graphs



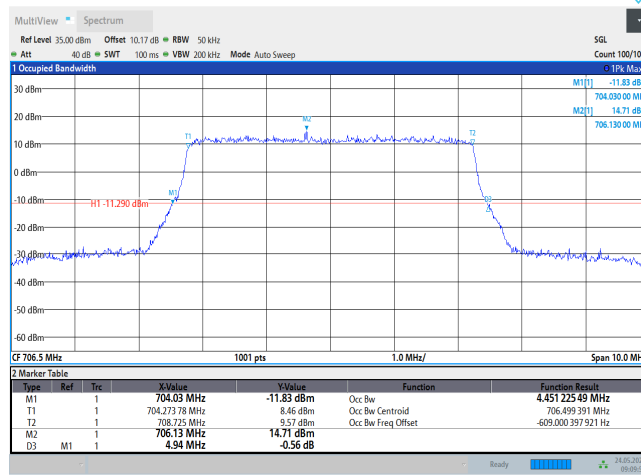
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Band17-5MHz-QPSK-23825-25RB#0



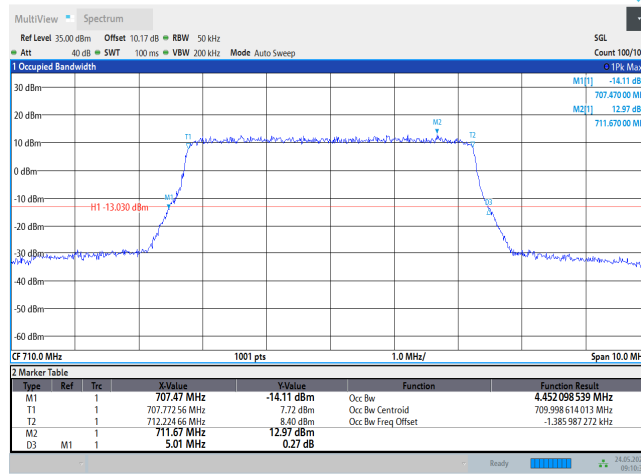
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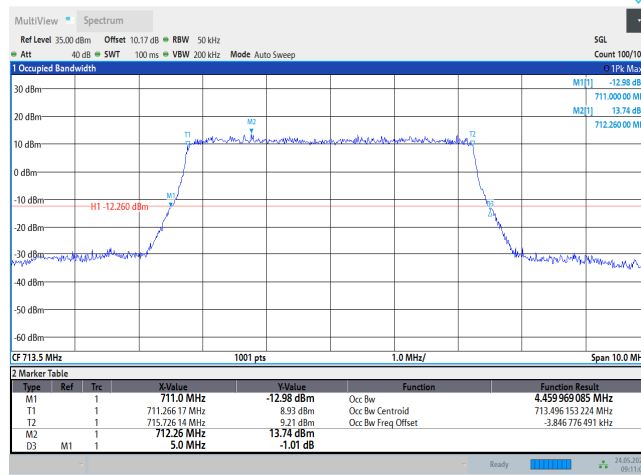
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Band17-5MHz-16QAM-23790-25RB#0



09:10:31 24.05.2023

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



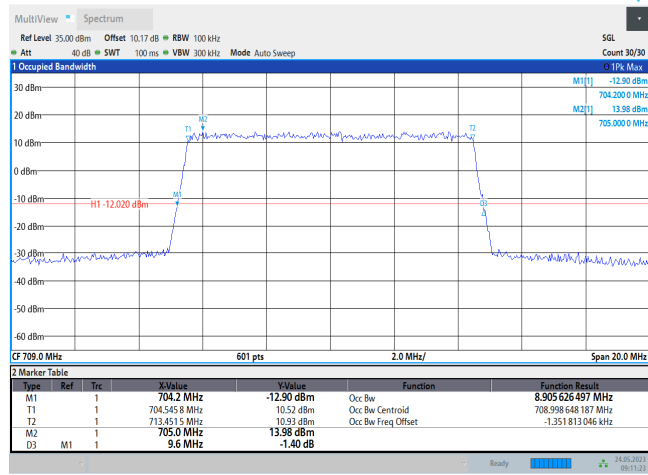
09:11:04 24.05.2023



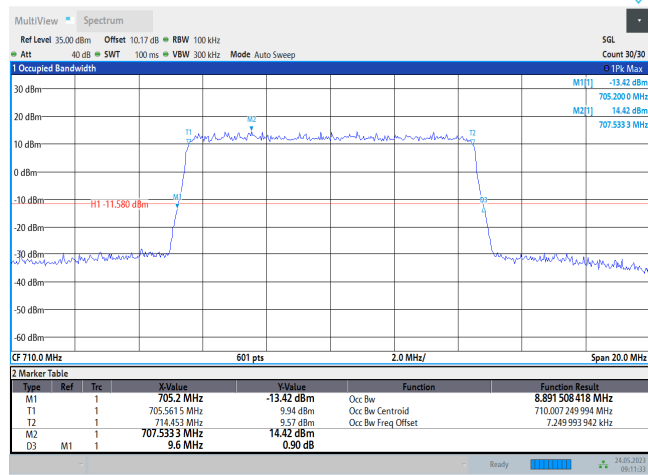
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Band17-10MHz-QPSK-23780-50RB#0



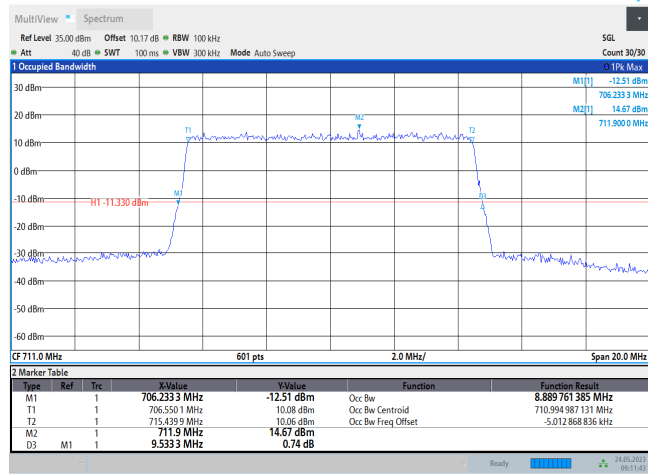
Band17-10MHz-QPSK-23790-50RB#0



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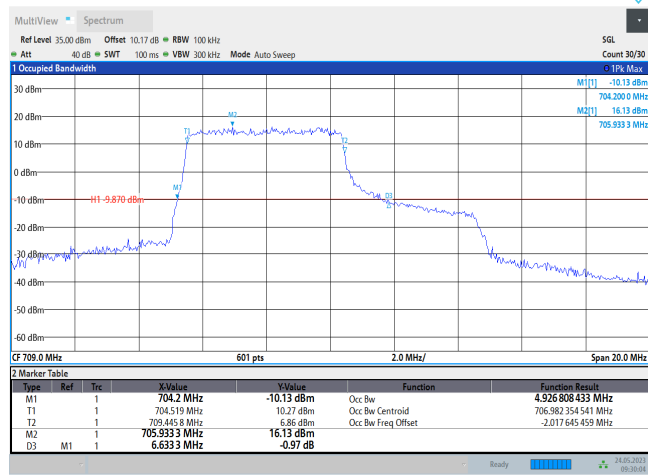
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Band17-10MHz-QPSK-23800-50RB#0



09:11:43 24.05.2023

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



09:30:04 24.05.2023



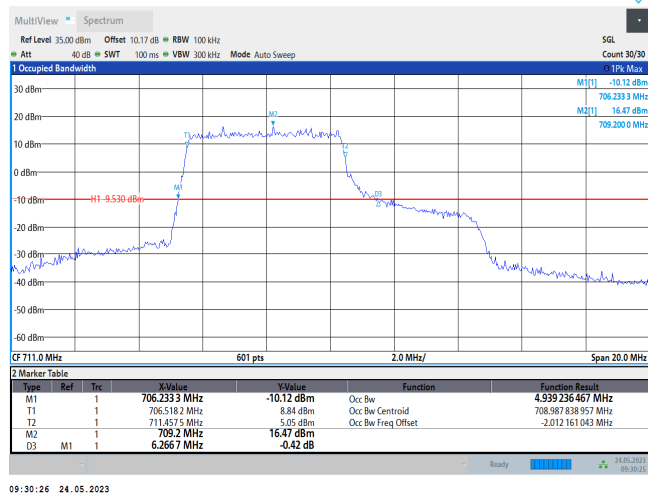
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Band17-10MHz-16QAM-23790-27RB#0



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



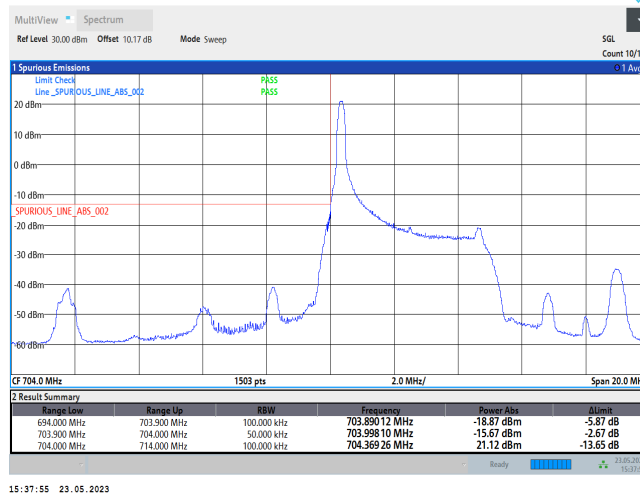
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Band Edge

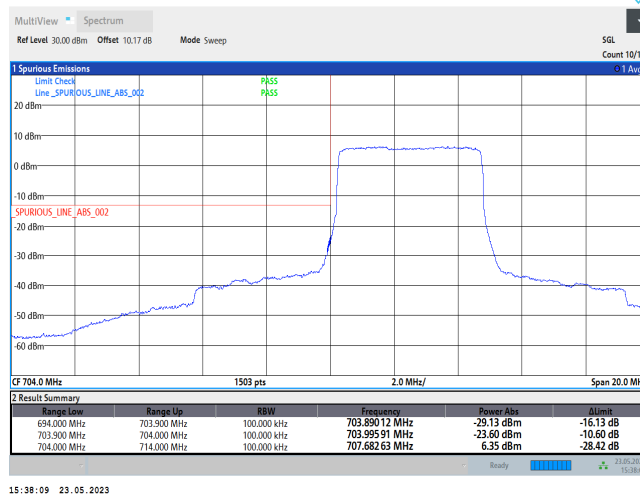
Test Graphs

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



15:37:55 23.05.2023

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

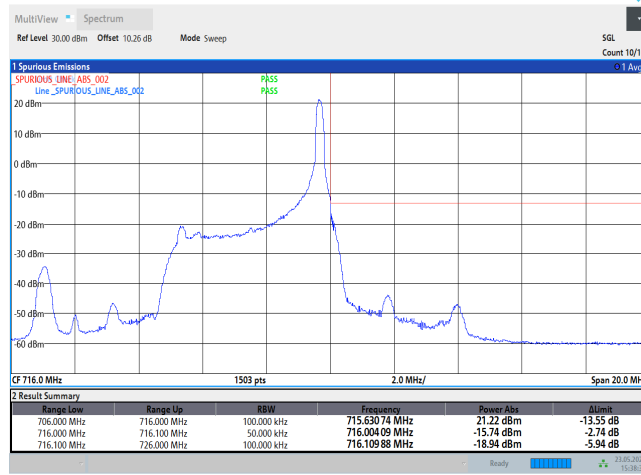


15:38:09 23.05.2023



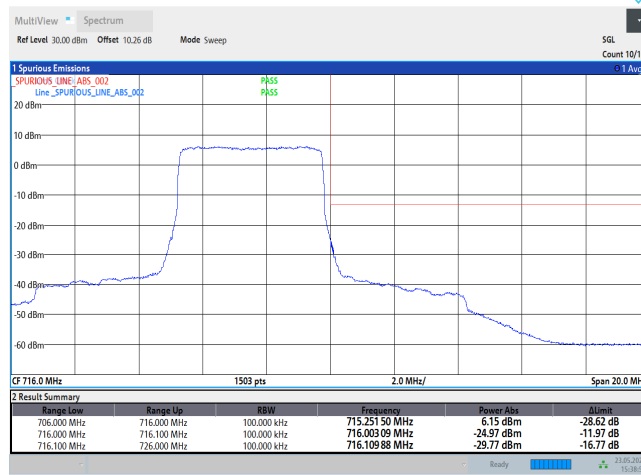
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Band17-5MHz-QPSK-23825-1RB#24



15:38:40 23.05.2023

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

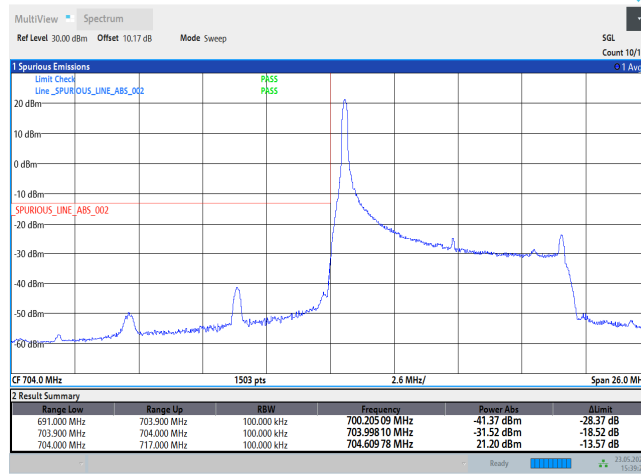


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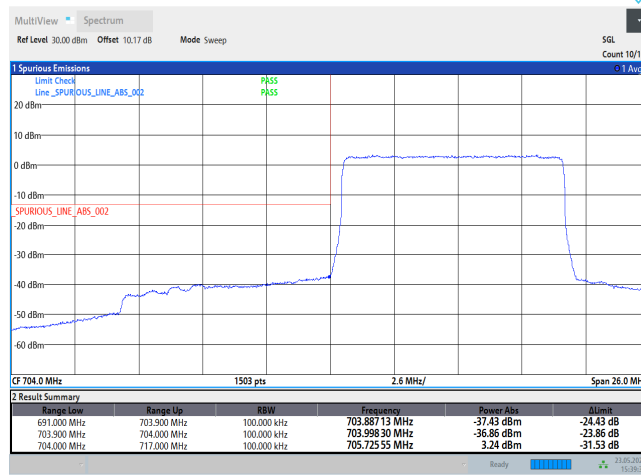
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Band17-10MHz-QPSK-23780-1RB#0



15:39:25 23.05.2023

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



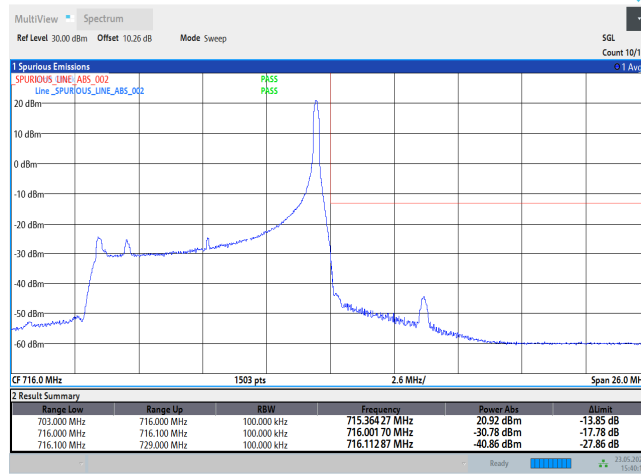
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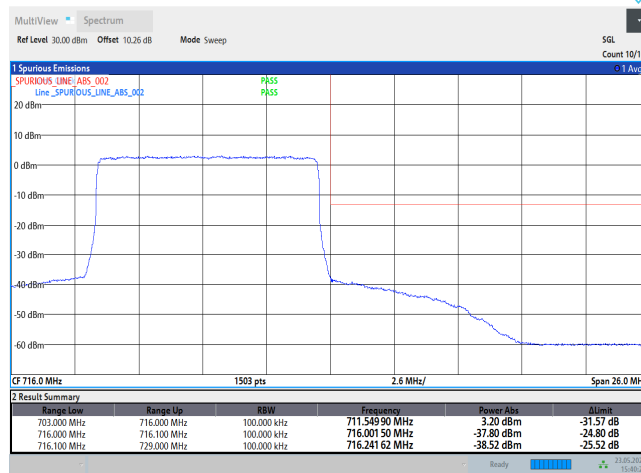
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Band17-10MHz-QPSK-23800-1RB#49



15:40:10 23.05.2023

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



15:40:25 23.05.2023

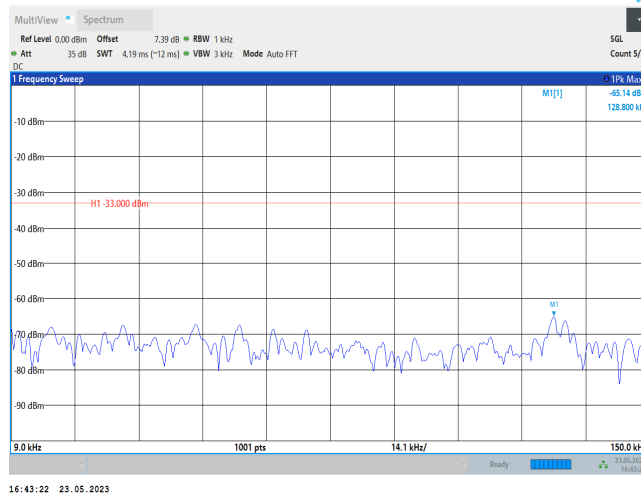


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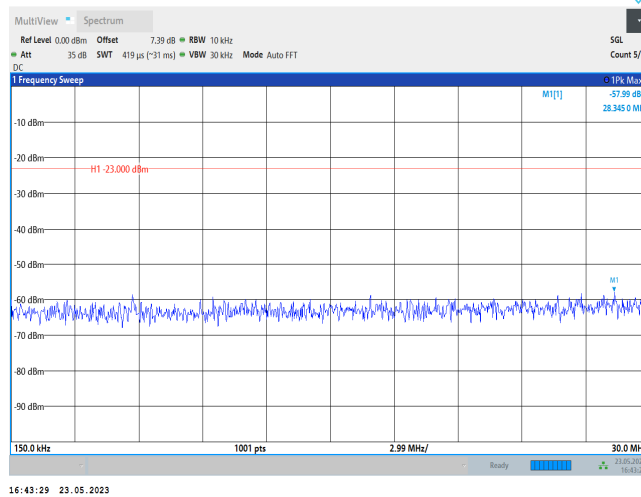
Conducted Spurious Emission

Test Graphs

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

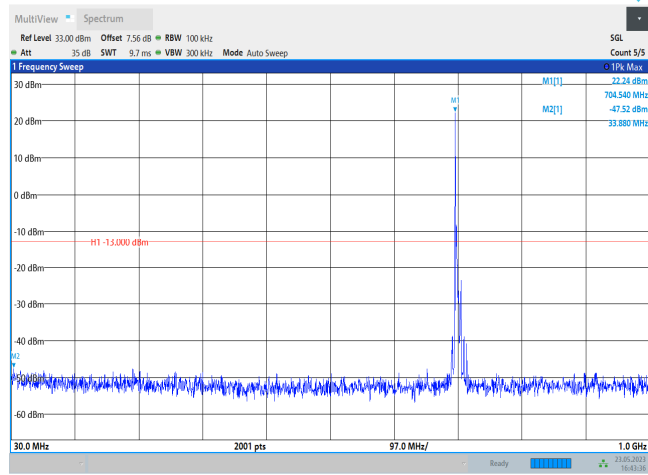


Band17-10MHz-QPSK-23780-1RB#0-Range2:0.15~30MHz



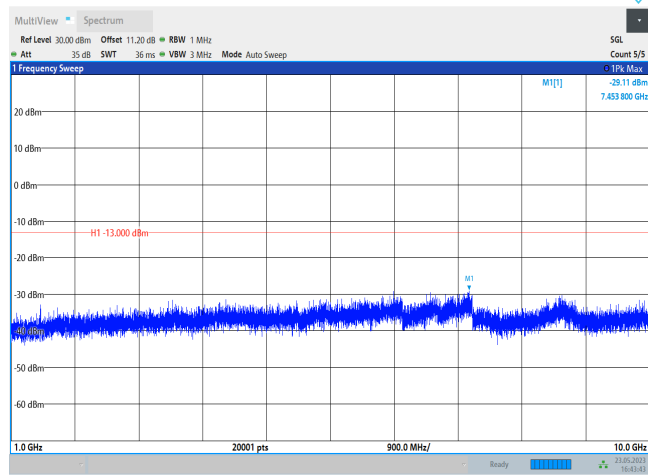
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



16:43:36 23. 05. 2023

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



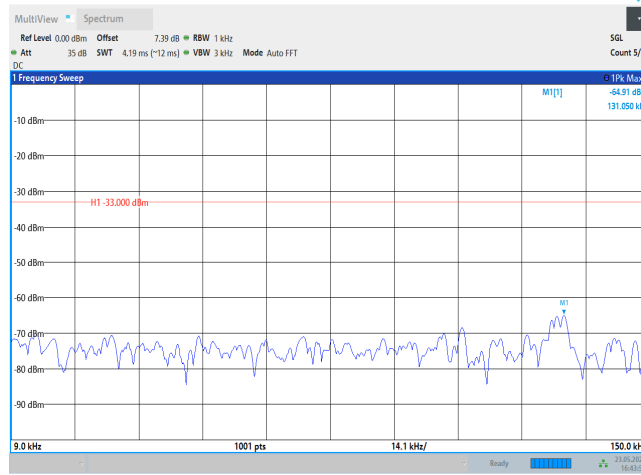
16:43:44 23. 05. 2023



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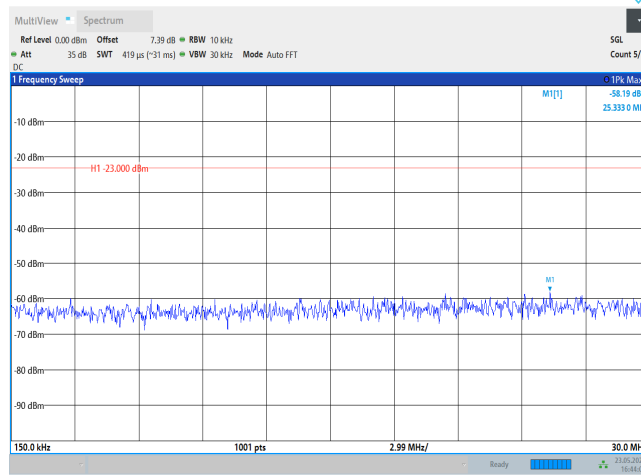
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



16:43:55 23.05.2023

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

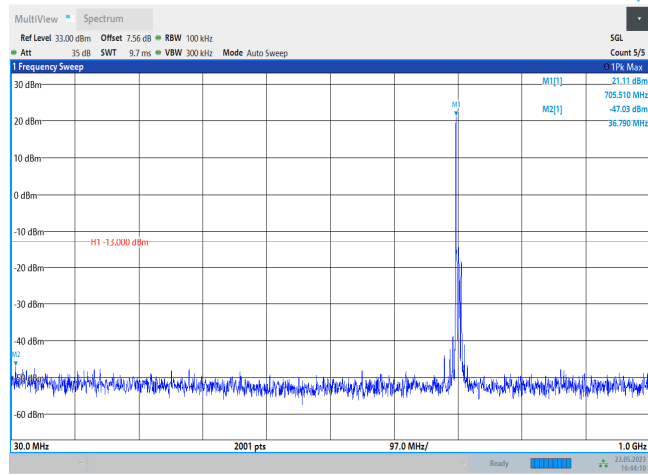


16:44:03 23.05.2023



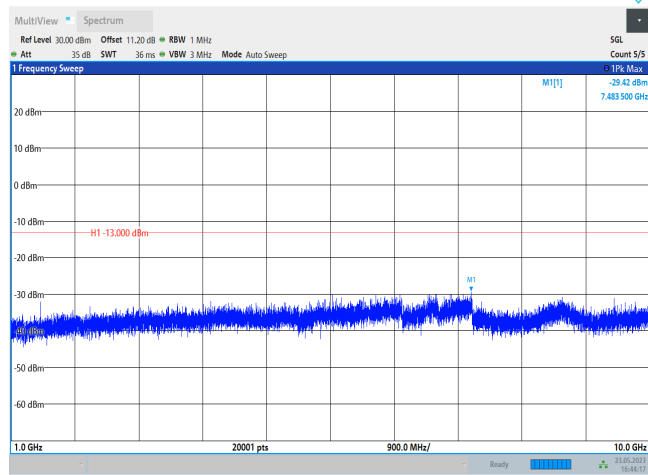
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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



16:44:10 23.05.2023

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

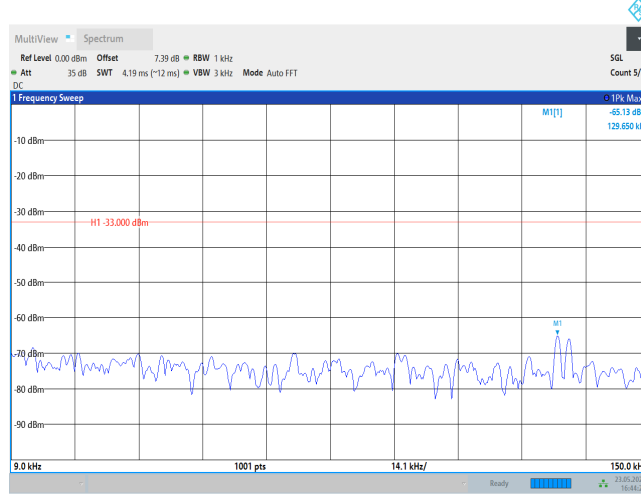


16:44:18 23.05.2023



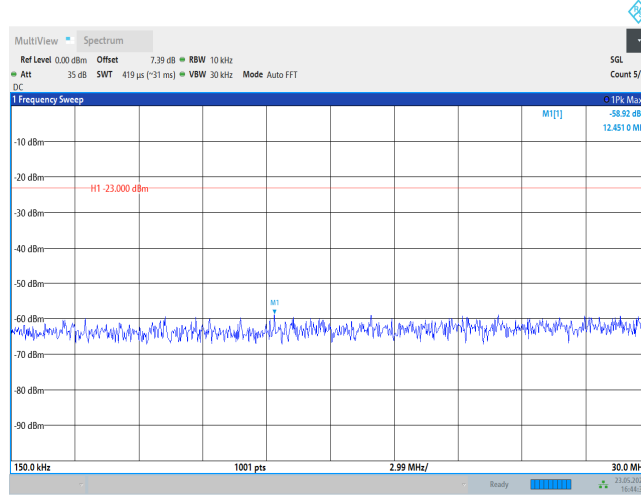
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



16:44:29 23.05.2023

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

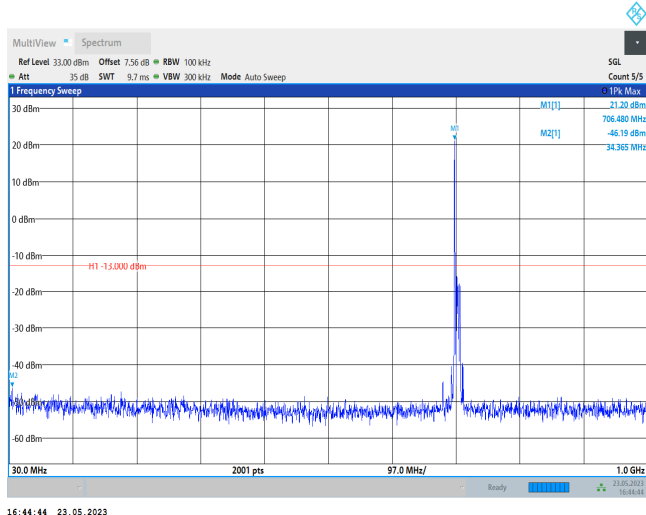


16:44:37 23.05.2023

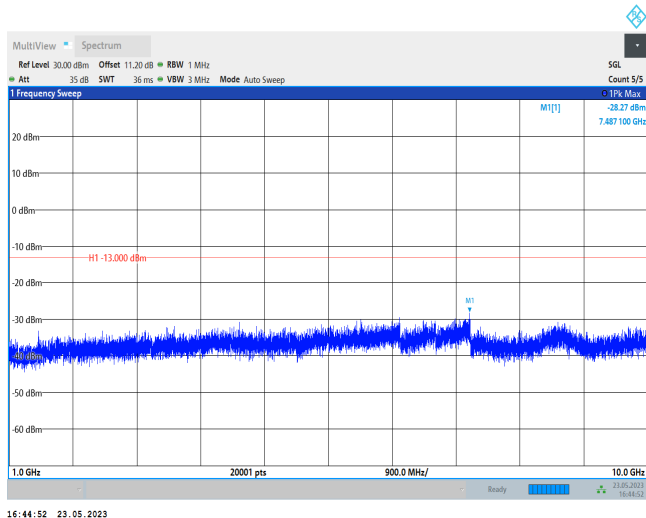


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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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



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 中国·西安·沣东新城科源三路137号康鸿橙方科技园1号楼D单元1层 | 邮编: 710086 | t (86-29) 6282 7885 | sgs.china@sgs.com

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 (°C)	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 (°C)	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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