

Report No.: SEWA2204000011RG01

Rev.: 01

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Appendix B.8

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	22.77	23.88	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.46	24.57	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.1	24.21	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	22.14	23.25	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	23.31	24.42	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.16	24.27	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.03	24.14	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	22.12	23.23	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.99	24.1	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.83	23.94	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.94	24.05	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.89	23	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	21.94	23.05	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	21.92	23.03	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	21.87	22.98	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	21.07	22.18	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.09	23.2	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	21.91	23.02	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	21.67	22.78	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.88	21.99	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	21.75	22.86	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	21.49	22.6	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	21.81	22.92	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.82	21.93	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	23.25	24.36	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	23.16	24.27	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.98	24.09	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	22.3	23.41	34.77	PASS



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Band17	10MHz	QPSK	23790	1RB#0	23.34	24.45	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	23.13	24.24	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.81	23.92	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	22.09	23.2	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	23.18	24.29	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	23.19	24.3	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.76	23.87	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	22.1	23.21	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22.02	23.13	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	22.12	23.23	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	21.86	22.97	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	21.05	22.16	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	21.99	23.1	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	21.94	23.05	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.7	22.81	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	21.03	22.14	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	21.91	23.02	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	22	23.11	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.72	22.83	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	21.04	22.15	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	5.18	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.22	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	5.94	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.00	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	5.98	13	PASS



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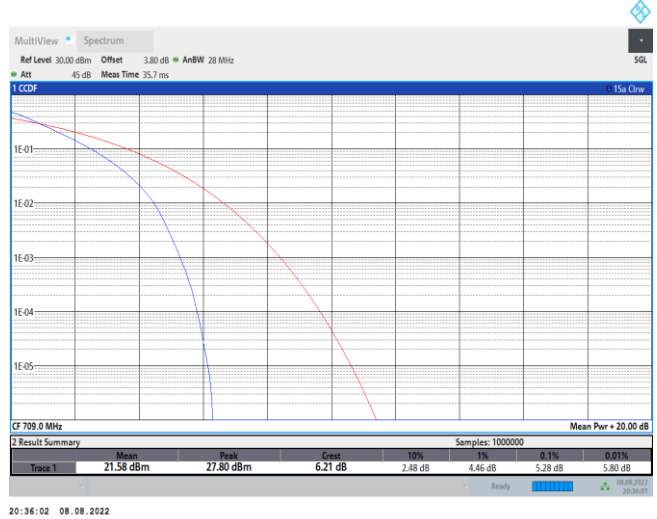
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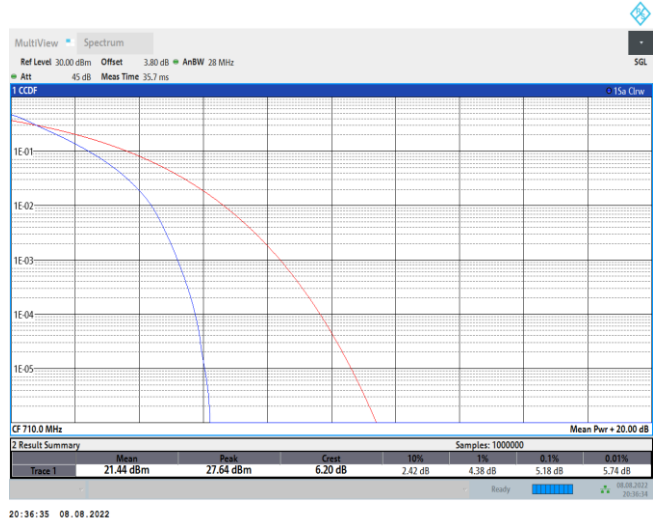
Test Graphs

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



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



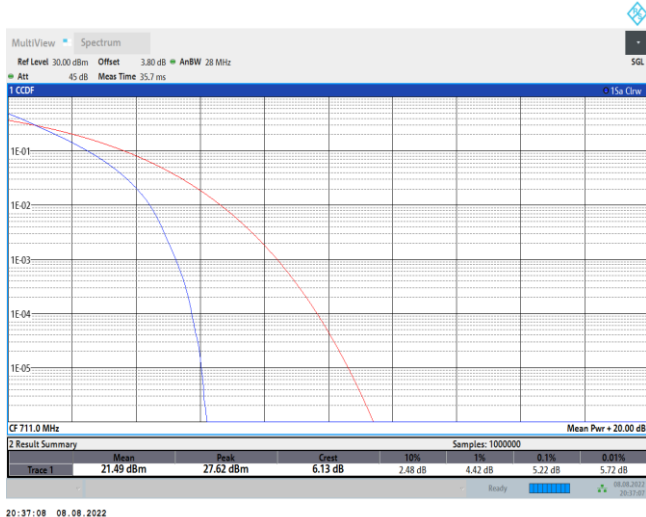
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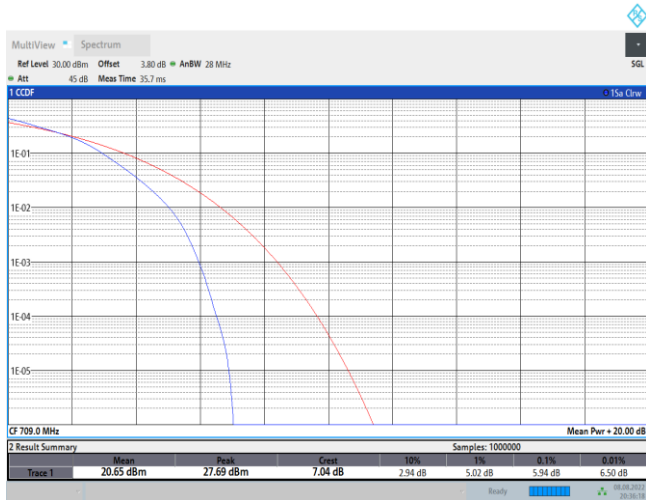
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Band17-10MHz-QPSK-23800-50RB#0



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

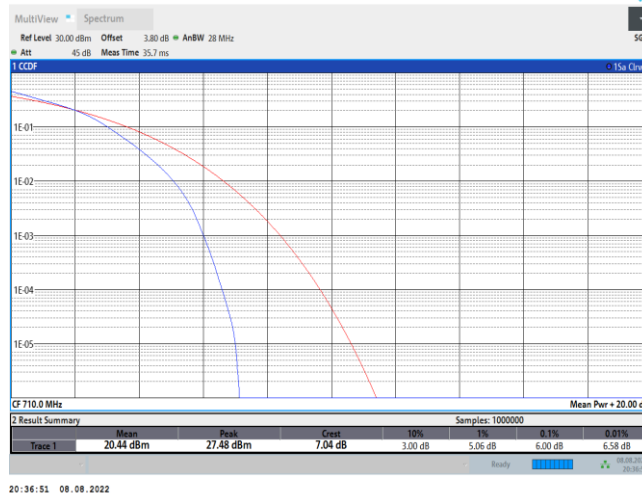


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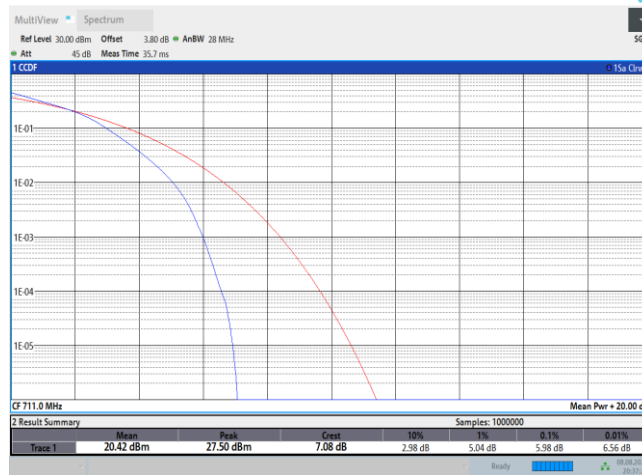
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Band17-10MHz-16QAM-23790-50RB#0



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



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band17	10MHz	QPSK	23790	50RB#0	PASS	PASS
Band17	10MHz	16QAM	23790	50RB#0	PASS	PASS



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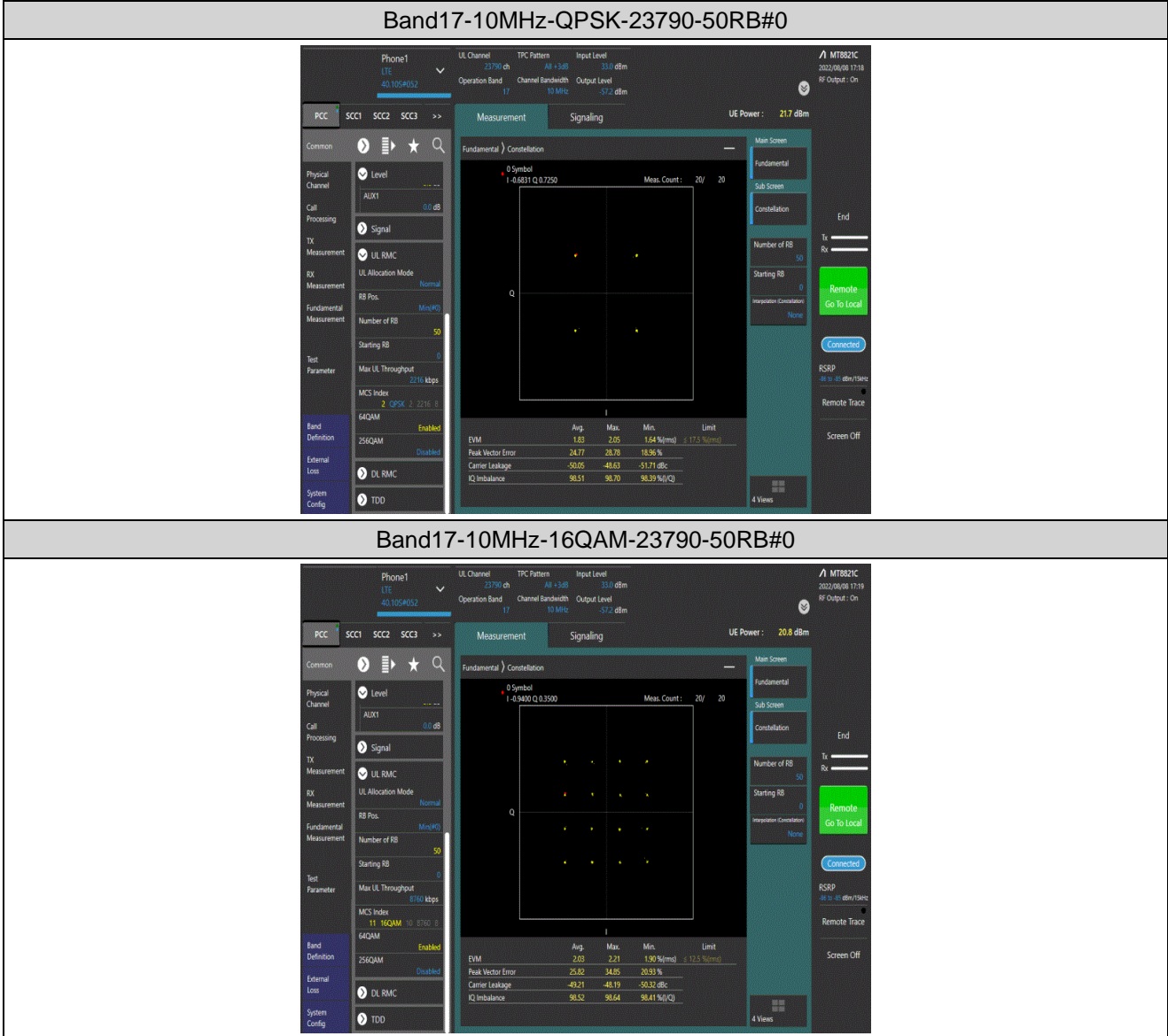
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Test Graphs



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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	4.88	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.463	4.89	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.467	4.89	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.46	4.94	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.457	4.90	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.463	4.94	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.901	9.67	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.915	9.63	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.898	9.67	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.903	9.67	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.905	9.67	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.898	9.73	PASS



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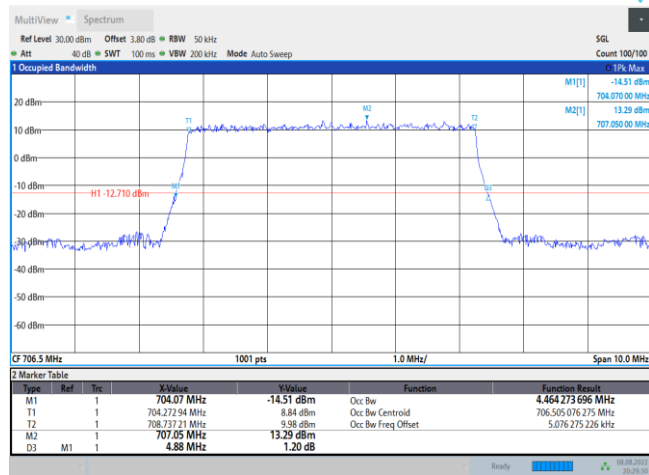
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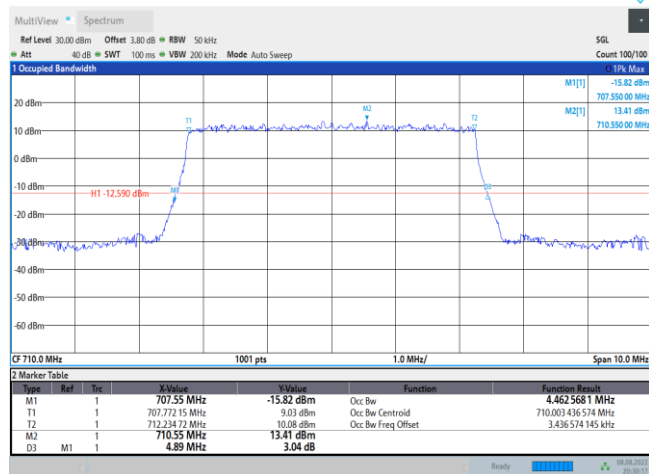
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Test Graphs

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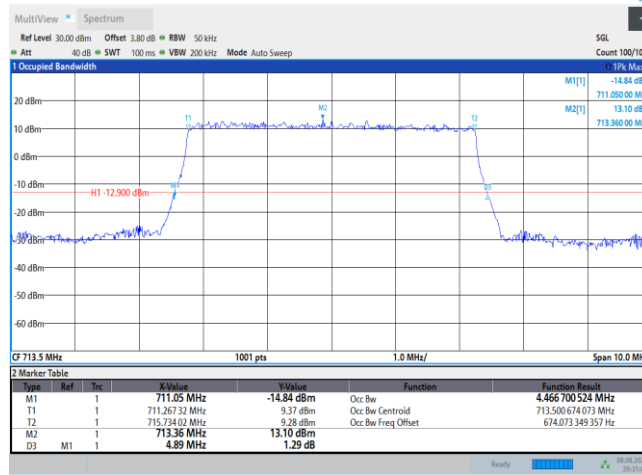


Band17-5MHz-QPSK-23790-25RB#0



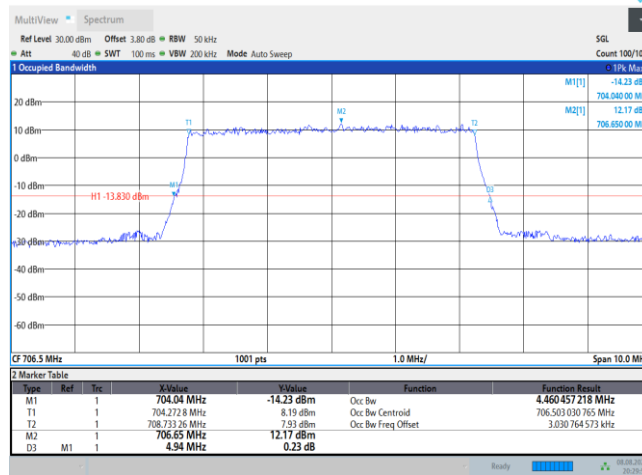
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Band17-5MHz-QPSK-23825-25RB#0



20:31:04 08.08.2022

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



20:29:54 08.08.2022



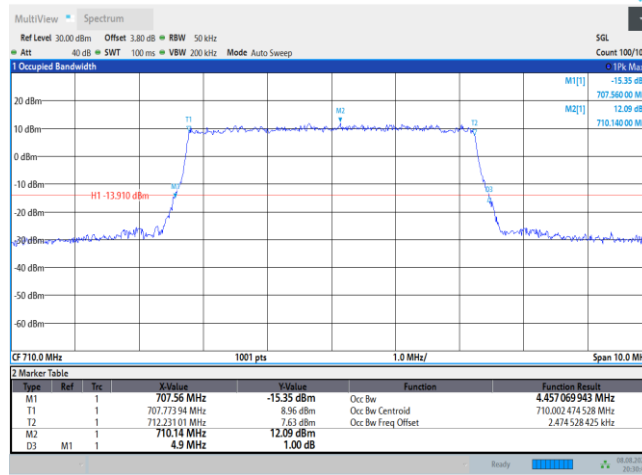
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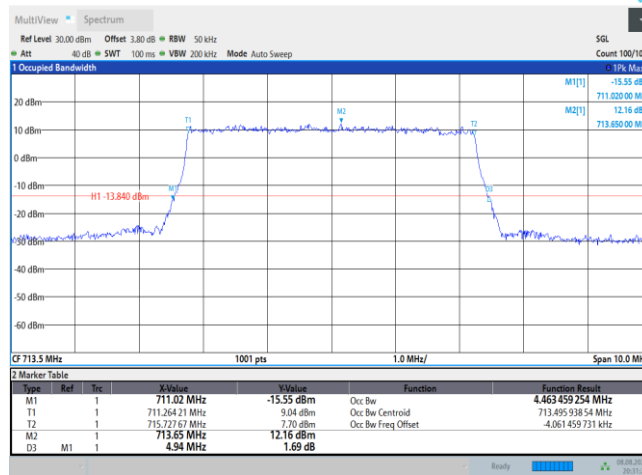
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Band17-5MHz-16QAM-23790-25RB#0



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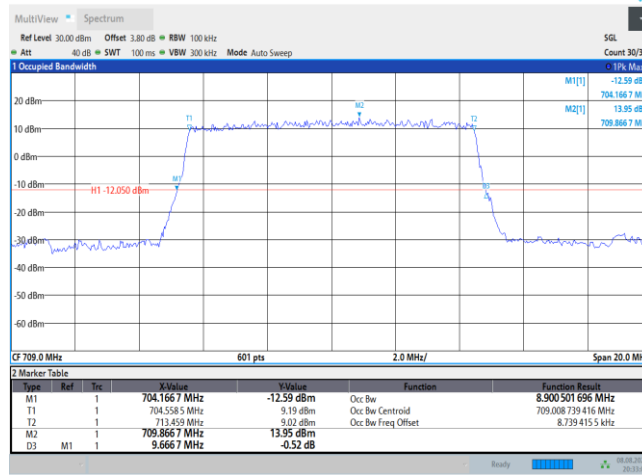
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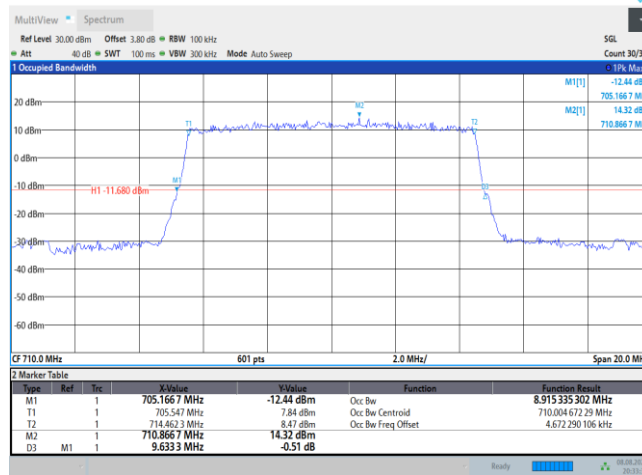
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Band17-10MHz-QPSK-23780-50RB#0



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

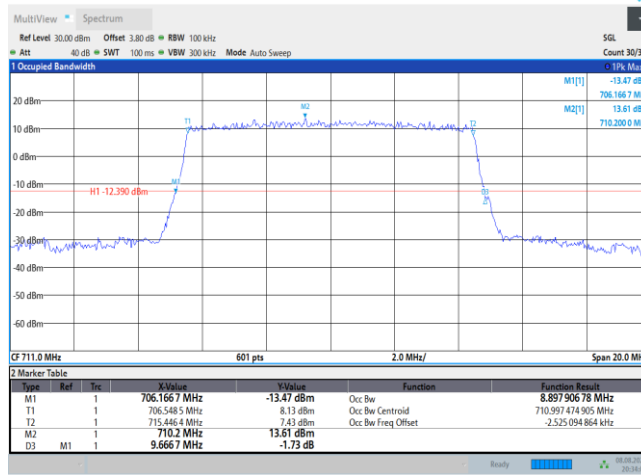


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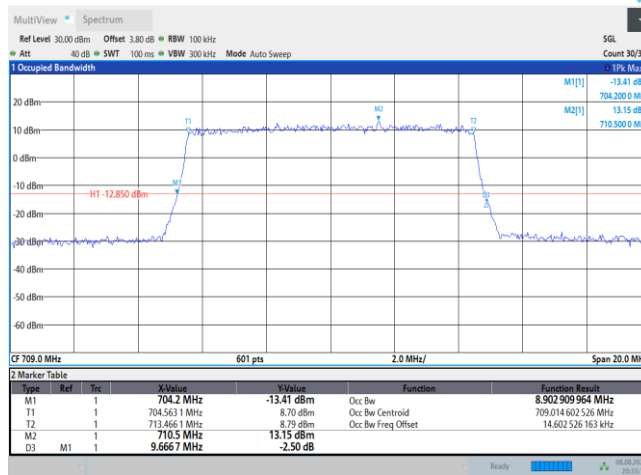
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Band17-10MHz-QPSK-23800-50RB#0



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

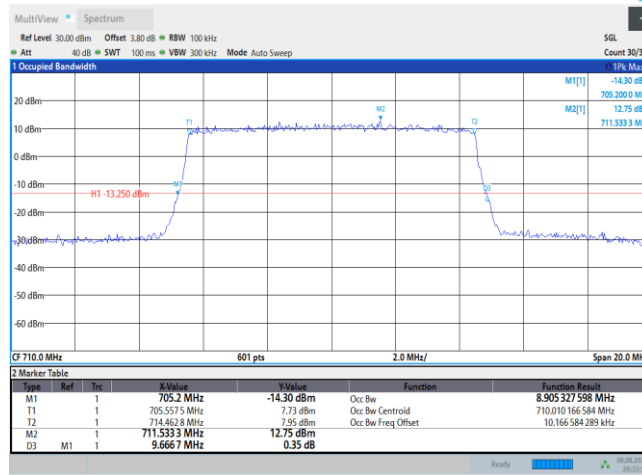


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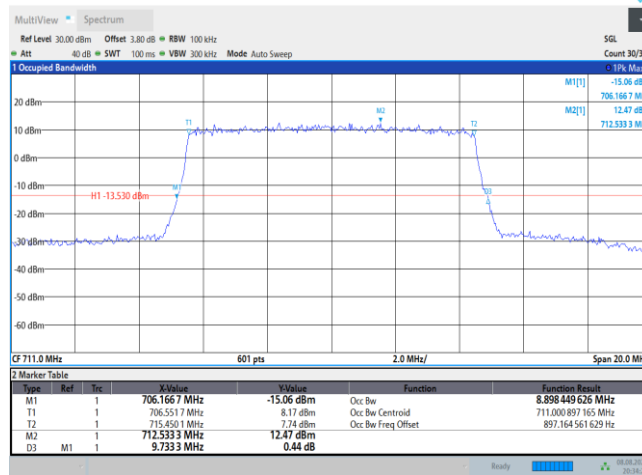
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Band17-10MHz-16QAM-23790-50RB#0



20:33:52 08.08.2022

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



20:34:25 08.08.2022



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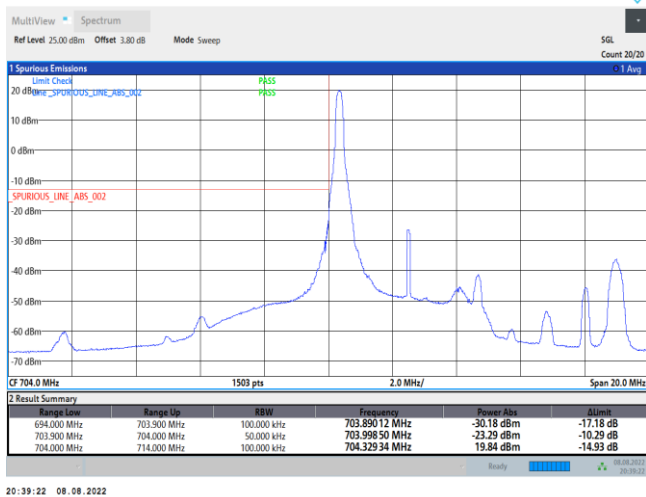
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Band Edge

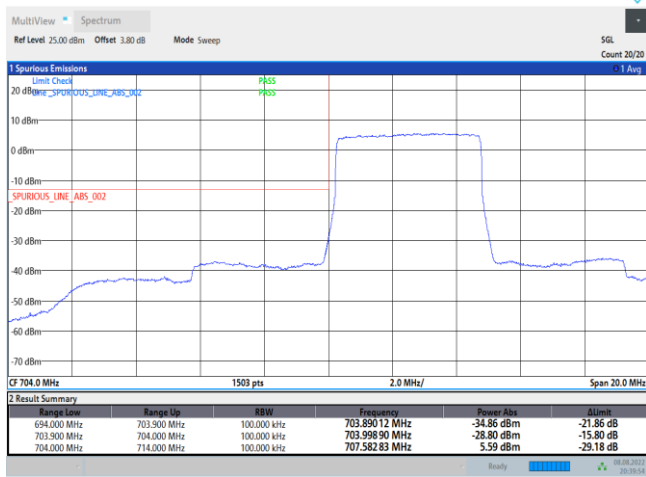
Test Graphs

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



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

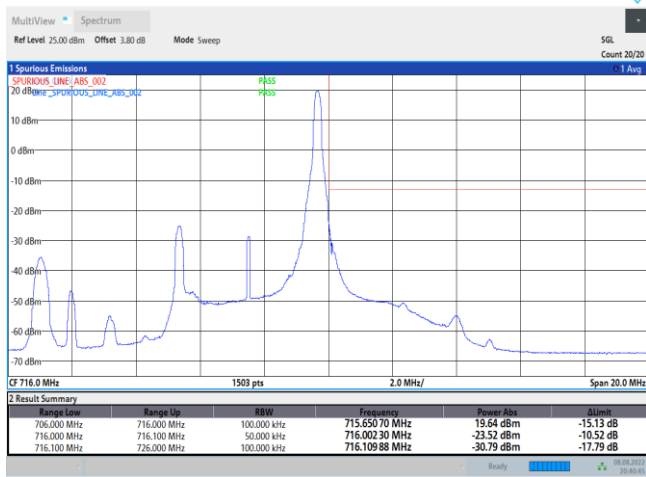


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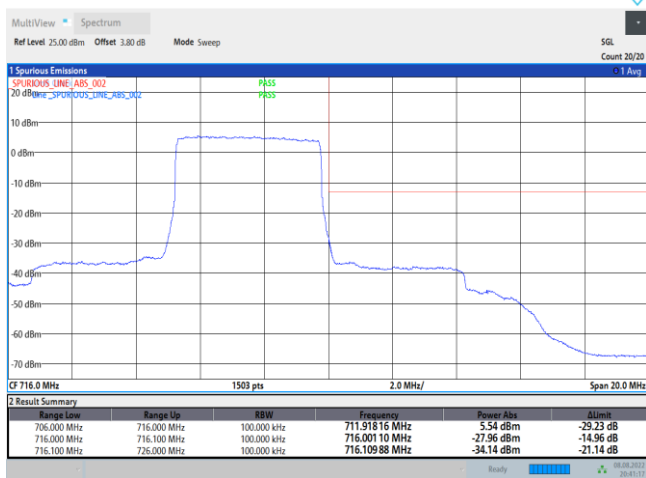


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Band17-5MHz-QPSK-23825-1RB#24

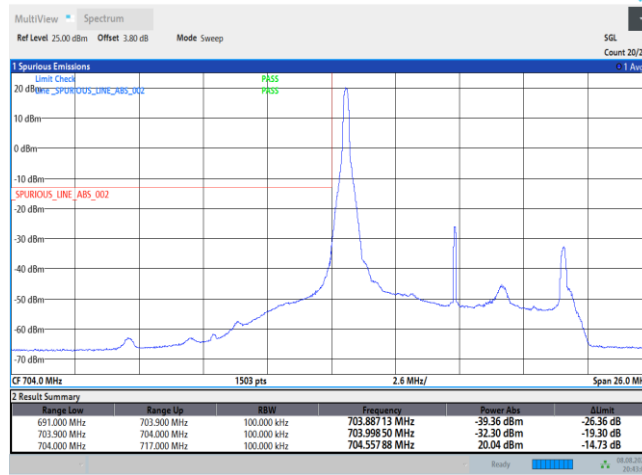


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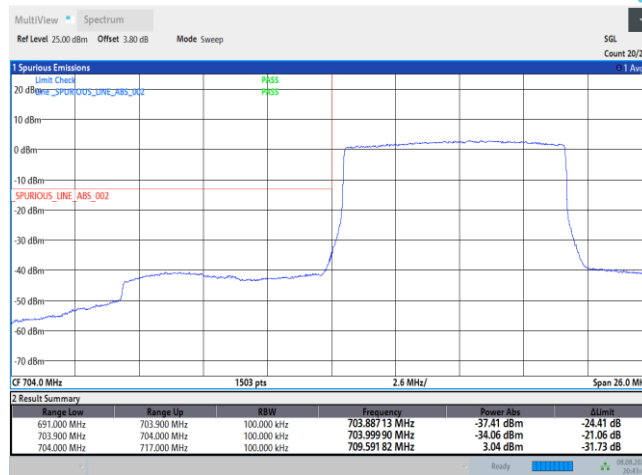
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Band17-10MHz-QPSK-23780-1RB#0



20:43:09 08.08.2022

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



20:43:40 08.08.2022



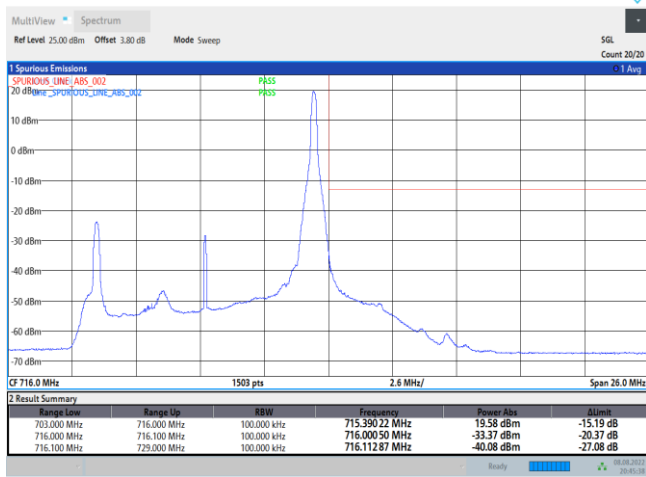
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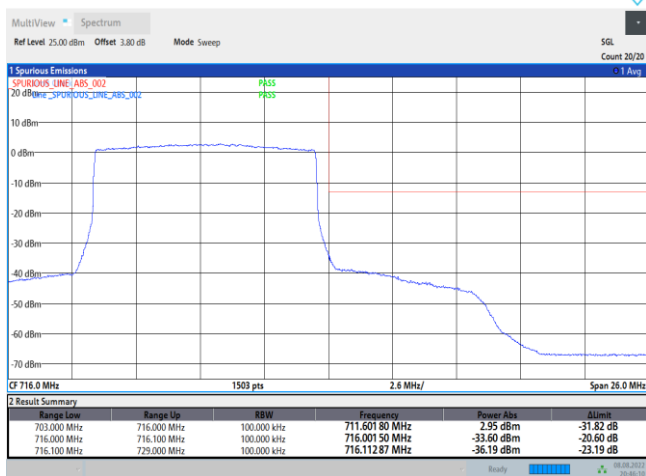
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Band17-10MHz-QPSK-23800-1RB#49



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



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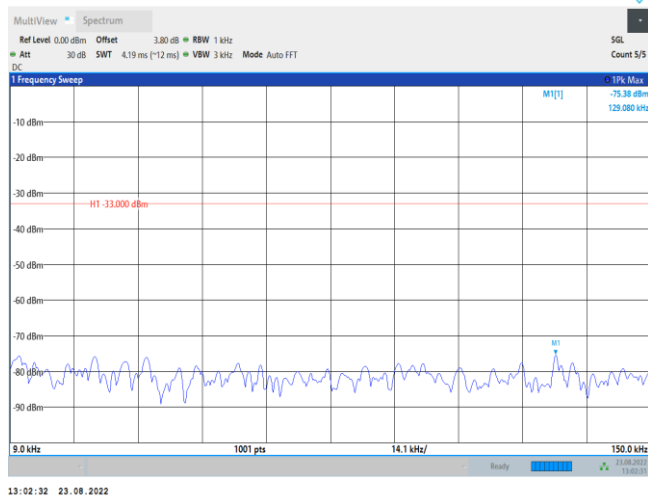


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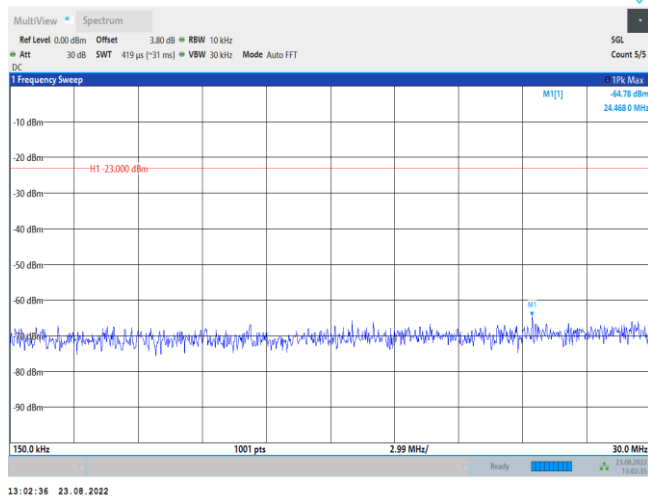
Conducted Spurious Emission

Test Graphs

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

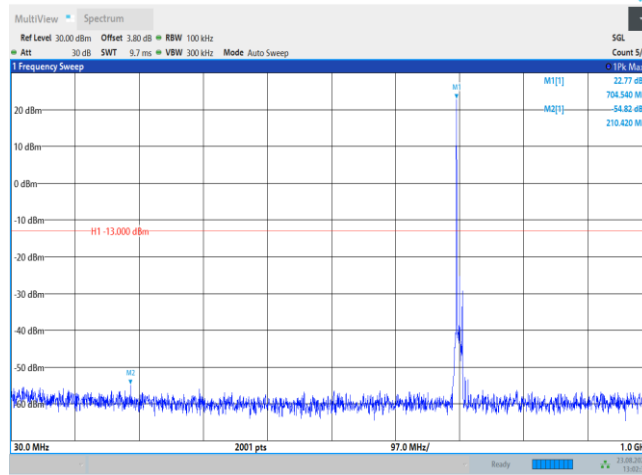


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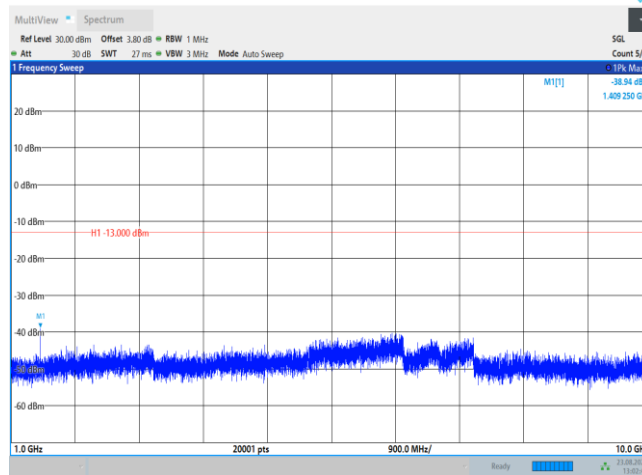
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



13:02:40 23.08.2022

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



13:02:44 23.08.2022



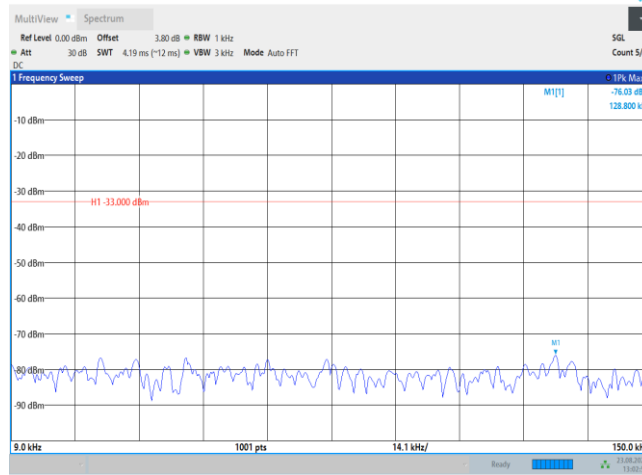
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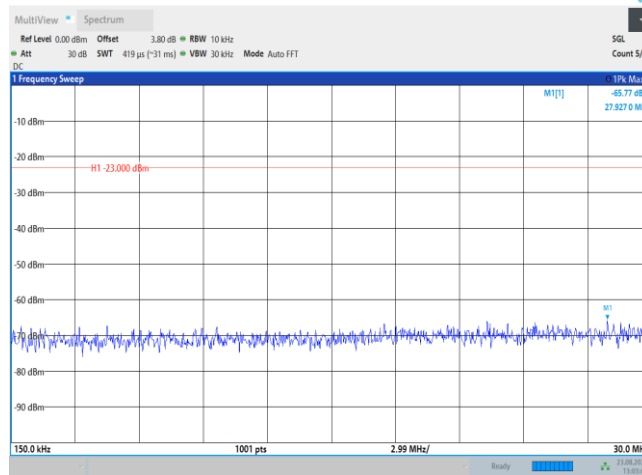
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



13:02:58 23.08.2022

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



13:03:01 23.08.2022



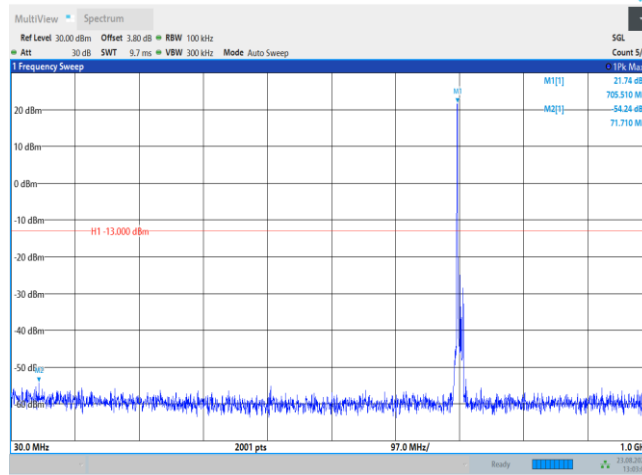
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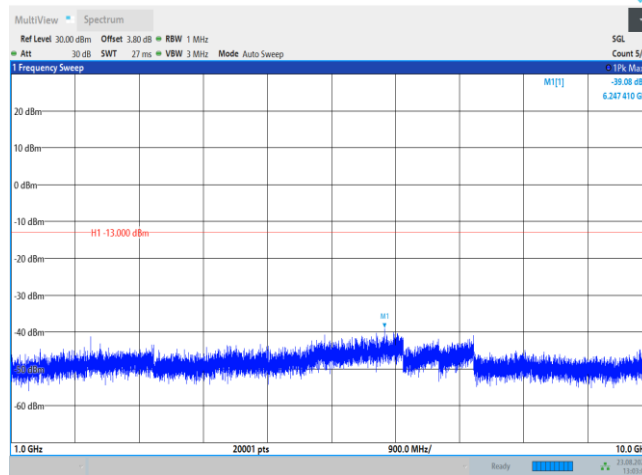
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t (86-512) 62992980 sgs.china@sgs.com

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



13:03:06 23.08.2022

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



13:03:10 23.08.2022



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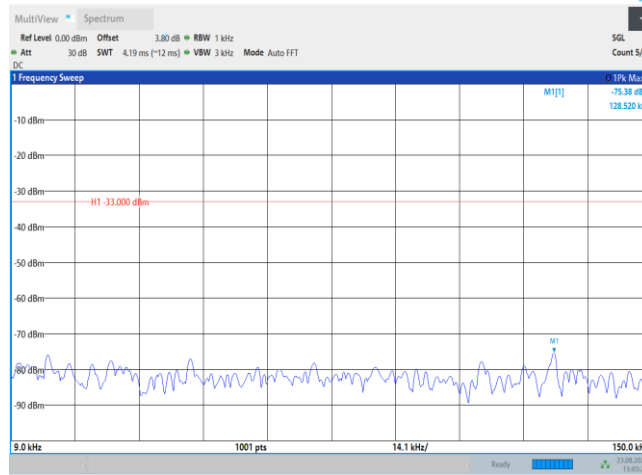
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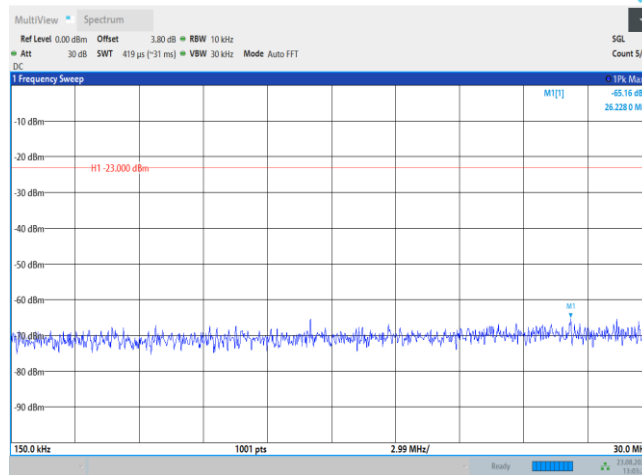
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



13:03:23 23.08.2022

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



13:03:27 23.08.2022



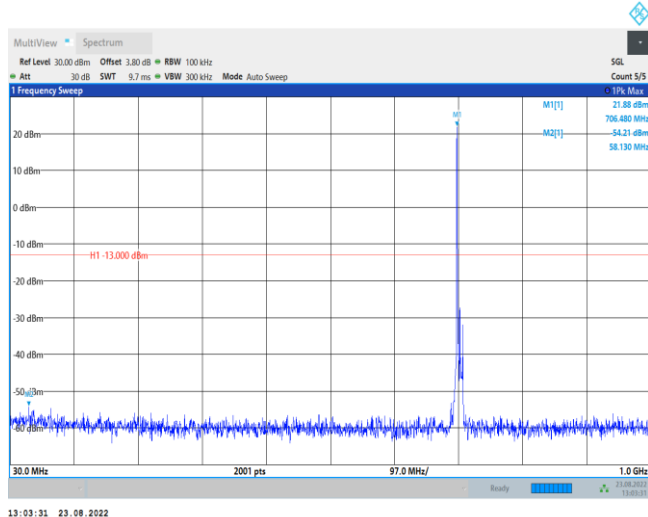
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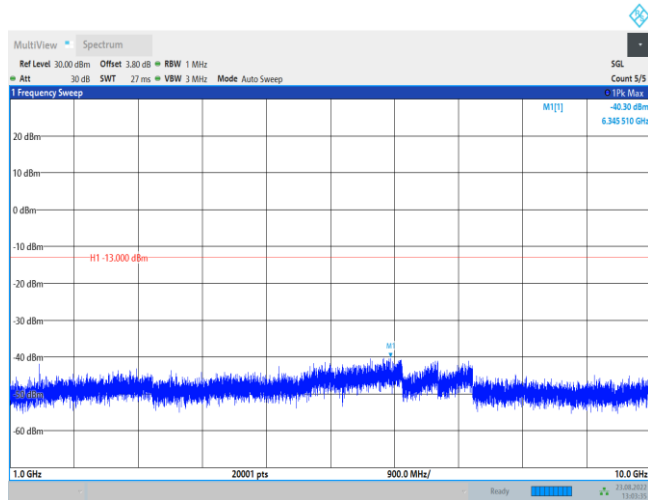
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



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



13:03:35 23.08.2022



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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]	Height [cm]	Angle [°]	Polarity
1	1409.1800	53.41	-48.03	25.61	-64.27	-13.00	51.27	154	146	Horizontal
2	2113.7700	50.52	-47.71	27.04	-65.41	-13.00	52.41	126	133	Horizontal
3	2818.3600	53.35	-46.85	28.56	-60.20	-13.00	47.20	136	305	Horizontal
4	3522.9500	49.91	-46.49	29.54	-62.30	-13.00	49.30	291	26	Horizontal
5	4227.5400	49.89	-45.91	31.16	-60.12	-13.00	47.12	172	171	Horizontal
6	4932.1300	49.53	-45.65	32.69	-58.69	-13.00	45.69	111	359	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.1800	53.67	-48.03	25.61	-64.01	-13.00	51.01	126	282	Vertical
2	2113.7700	50.11	-47.71	27.04	-65.82	-13.00	52.82	188	189	Vertical
3	2818.3600	50.85	-46.85	28.56	-62.70	-13.00	49.70	145	228	Vertical
4	3522.9500	49.65	-46.49	29.54	-62.56	-13.00	49.56	192	211	Vertical
5	4227.5400	48.83	-45.91	31.16	-61.18	-13.00	48.18	136	1	Vertical
6	4932.1300	50.79	-45.65	32.69	-57.43	-13.00	44.43	211	236	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]	Height [cm]	Angle [°]	Polarity
1	1411.1800	54.83	-48.04	25.60	-62.86	-13.00	49.86	216	146	Horizontal
2	2116.7700	51.20	-47.70	27.05	-64.71	-13.00	51.71	216	159	Horizontal
3	2822.3600	50.59	-46.84	28.58	-62.93	-13.00	49.93	236	4	Horizontal
4	3527.9500	50.83	-46.48	29.55	-61.37	-13.00	48.37	261	146	Horizontal
5	4233.5400	48.91	-45.90	31.17	-61.08	-13.00	48.08	144	265	Horizontal
6	4939.1300	49.04	-45.67	32.71	-59.18	-13.00	46.18	175	4	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.1800	54.85	-48.04	25.60	-62.84	-13.00	49.84	285	136	Vertical
2	2116.7700	51.94	-47.70	27.05	-63.97	-13.00	50.97	146	334	Vertical
3	2822.3600	50.89	-46.84	28.58	-62.63	-13.00	49.63	191	0	Vertical
4	3527.9500	50.26	-46.48	29.55	-61.94	-13.00	48.94	172	307	Vertical
5	4233.5400	48.76	-45.90	31.17	-61.23	-13.00	48.23	236	201	Vertical
6	4939.1300	49.01	-45.67	32.71	-59.21	-13.00	46.21	211	110	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]	Height [cm]	Angle [°]	Polarity
1	1413.1800	53.54	-48.04	25.60	-64.16	-13.00	51.16	162	145	Horizontal
2	2119.7700	51.31	-47.70	27.06	-64.59	-13.00	51.59	148	13	Horizontal
3	2826.3600	51.50	-46.83	28.60	-61.99	-13.00	48.99	175	132	Horizontal
4	3532.9500	49.67	-46.47	29.55	-62.51	-13.00	49.51	169	26	Horizontal
5	4239.5400	49.40	-45.89	31.18	-60.57	-13.00	47.57	133	360	Horizontal
6	4946.1300	49.12	-45.69	32.73	-59.10	-13.00	46.10	122	145	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.1800	52.74	-48.04	25.60	-64.96	-13.00	51.96	185	281	Vertical
2	2119.7700	50.62	-47.70	27.06	-65.28	-13.00	52.28	142	1	Vertical
3	2826.3600	50.17	-46.83	28.60	-63.32	-13.00	50.32	166	2	Vertical
4	3532.9500	50.13	-46.47	29.55	-62.05	-13.00	49.05	198	0	Vertical
5	4239.5400	48.75	-45.89	31.18	-61.22	-13.00	48.22	111	242	Vertical
6	4946.1300	48.91	-45.69	32.73	-59.31	-13.00	46.31	172	214	Vertical

Remark:

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

Level = Reading Level(dBuV) + AF(dB/m) + Factor(dB)

AF = Antenna Factor(dB/m)

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

Margin = Limit(dBm) - Level(dBm)

dBuV=dbm+95.26



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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	1.10	0.001549	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	-0.70	-0.000986	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	1.70	0.002394	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	2.00	0.002817	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	0.80	0.001127	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	0.40	0.000563	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	1.20	0.001690	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	2.90	0.004085	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	0.90	0.001268	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	1.00	0.001408	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	2.60	0.003662	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	0.80	0.001127	PASS

---End of Attachment---



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