

Report No.: SEWM2207000122RG01

Rev.: 01

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Appendix B.8

LTE Band 13



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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
Band13	5MHz	QPSK	23205	1RB#0	23.99	17.74	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.88	17.63	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.74	17.49	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.18	16.93	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.79	17.54	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.92	17.67	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.76	17.51	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.19	16.94	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.78	17.53	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.91	17.66	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	23.79	17.54	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.2	16.95	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.26	17.01	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.35	17.1	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.26	17.01	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.17	15.92	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.35	17.1	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.47	17.22	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.27	17.02	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.18	15.93	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.26	17.01	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.36	17.11	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.33	17.08	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.19	15.94	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	22.19	15.94	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	22.3	16.05	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	22.26	16.01	34.77	PASS



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Band13	5MHz	64QAM	23205	25RB#0	21.19	14.94	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	22.3	16.05	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	22.36	16.11	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	22.24	15.99	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	21.21	14.96	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	22.34	16.09	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	22.37	16.12	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	22.26	16.01	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	21.23	14.98	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.82	17.57	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.91	17.66	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.86	17.61	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	23.17	16.92	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.31	17.06	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.41	17.16	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.42	17.17	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.13	15.88	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	22.32	16.07	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	22.37	16.12	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	22.3	16.05	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	21.13	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
Band13	10MHz	QPSK	23230	50RB#0	4.98	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.82	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.26	13	PASS



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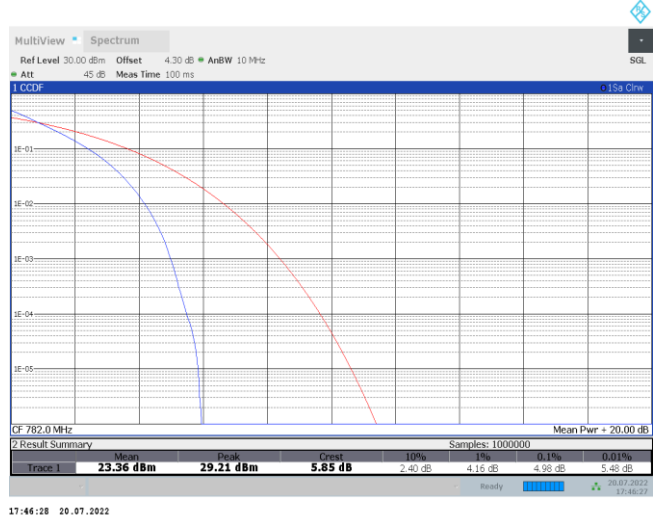
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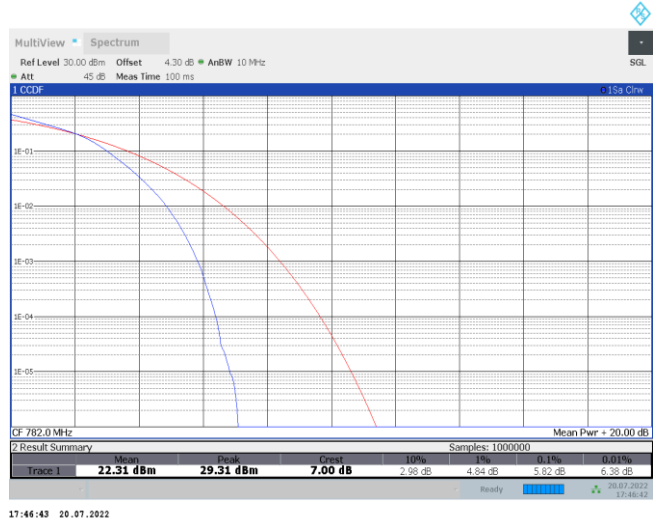
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Test Graphs

Band13-10MHz-QPSK-23230-50RB#0



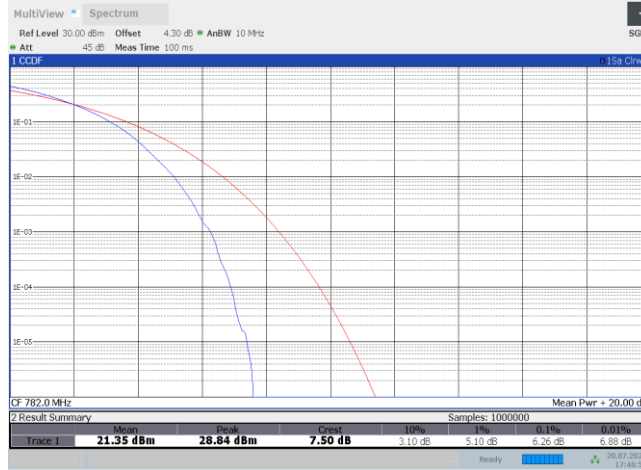
Band13-10MHz-16QAM-23230-50RB#0



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Band13-10MHz-64QAM-23230-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band13	10MHz	QPSK	23230	50RB#0	PASS	PASS
Band13	10MHz	16QAM	23230	50RB#0	PASS	PASS
Band13	10MHz	64QAM	23230	50RB#0	PASS	PASS



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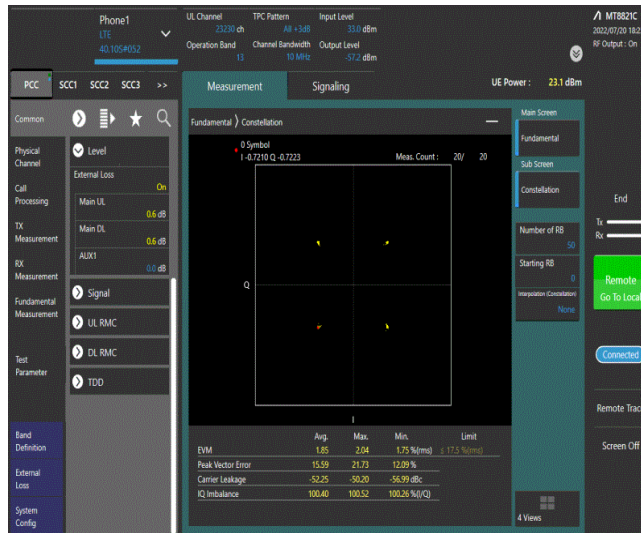
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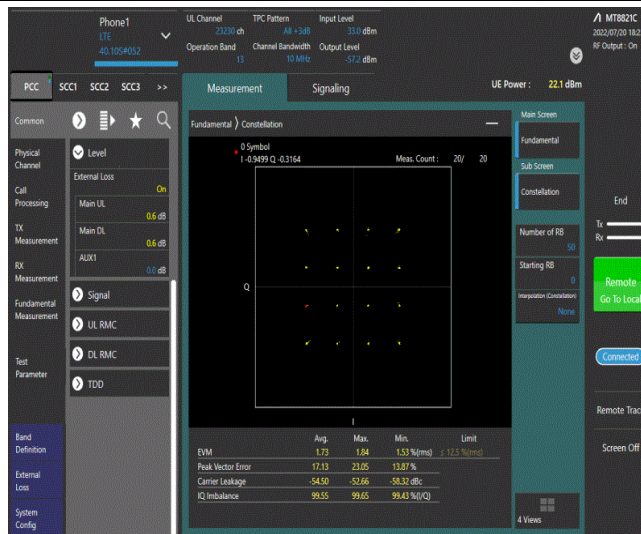
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Test Graphs

Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-50RB#0

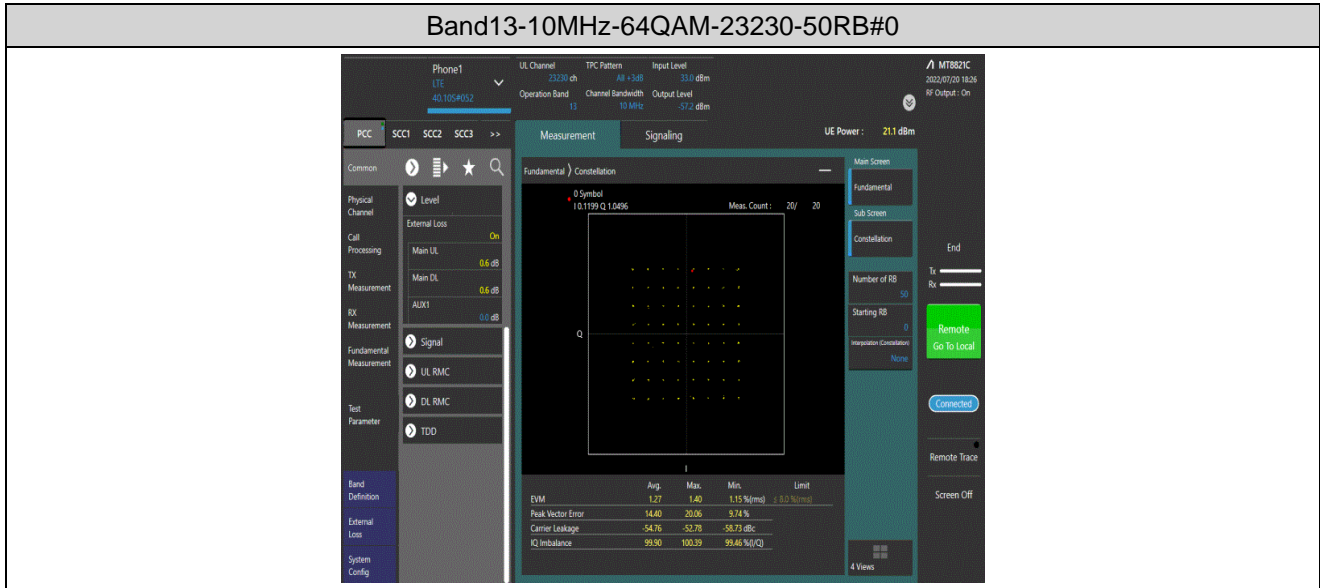


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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.47	4.82	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.468	4.84	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.471	4.83	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.464	4.86	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.465	4.85	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.465	4.86	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.476	4.85	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.479	4.85	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.471	4.85	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.917	9.58	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.897	9.52	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.909	9.60	PASS



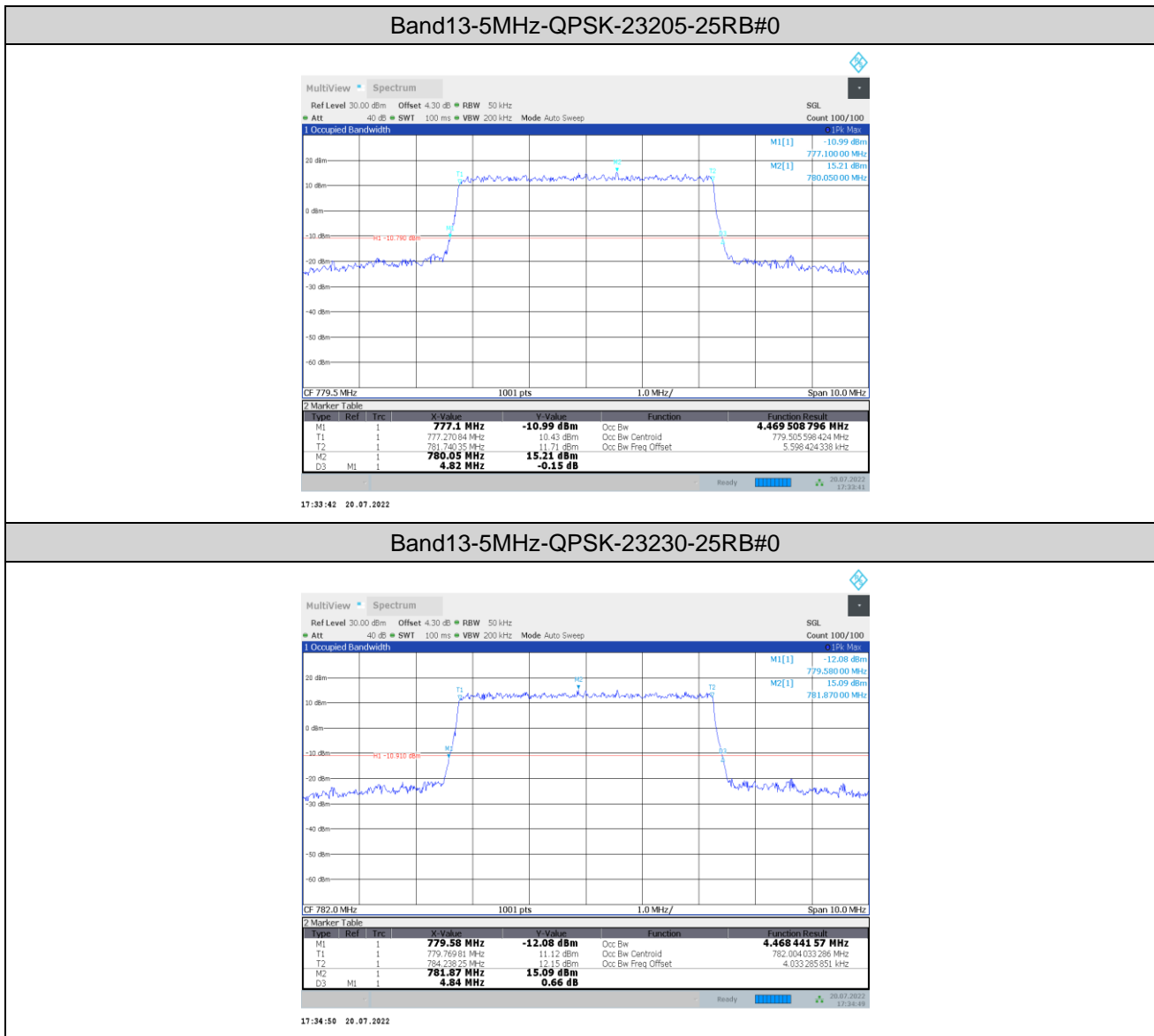
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Test Graphs

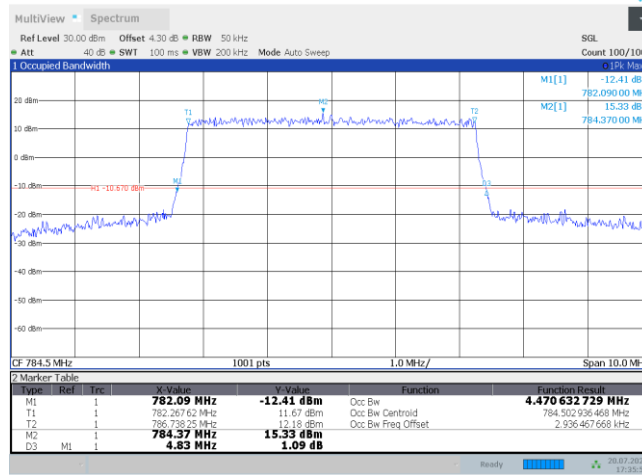


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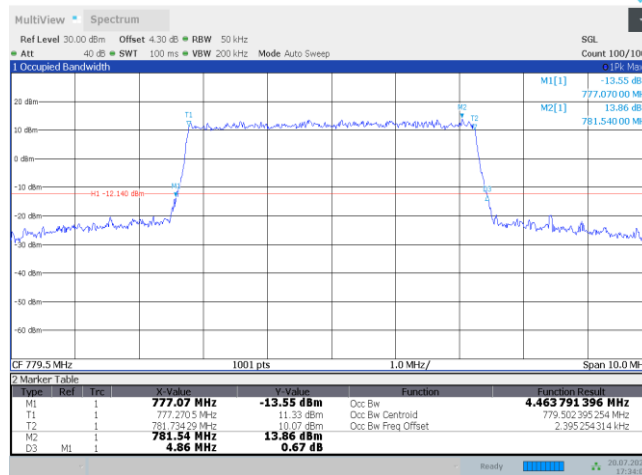
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Band13-5MHz-QPSK-23255-25RB#0



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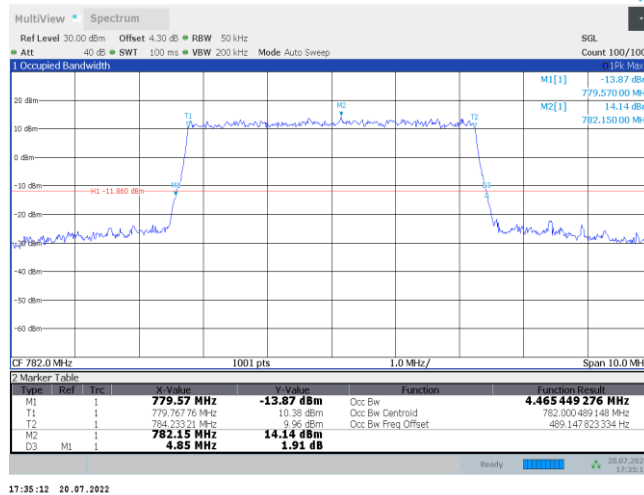
Band13-5MHz-16QAM-23205-25RB#0



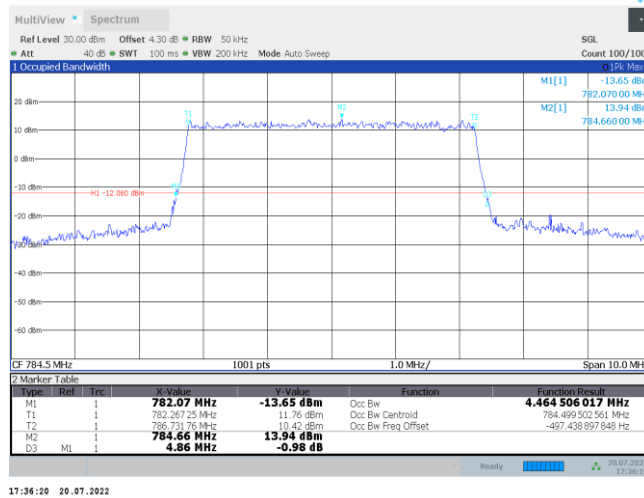
17:34:05 20.07.2022



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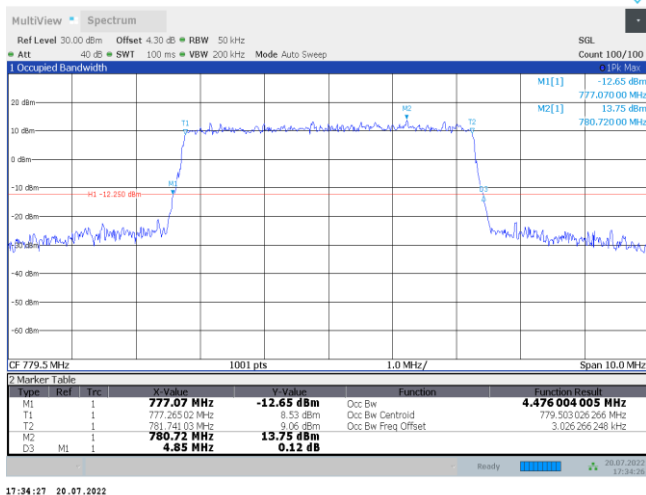
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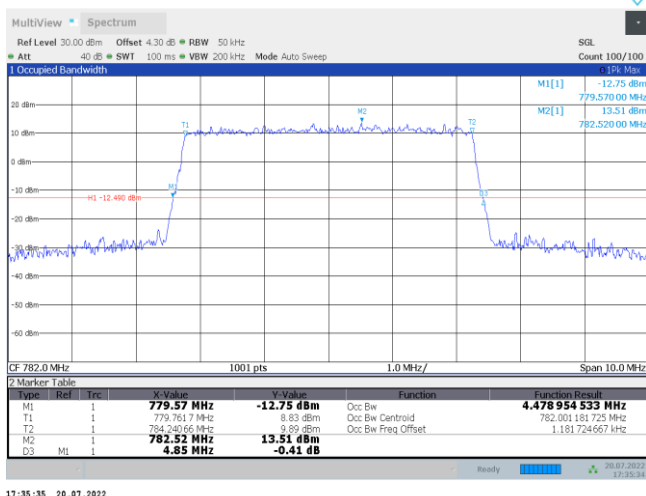
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Band13-5MHz-64QAM-23205-25RB#0



17:34:27 20.07.2022

Band13-5MHz-64QAM-23230-25RB#0

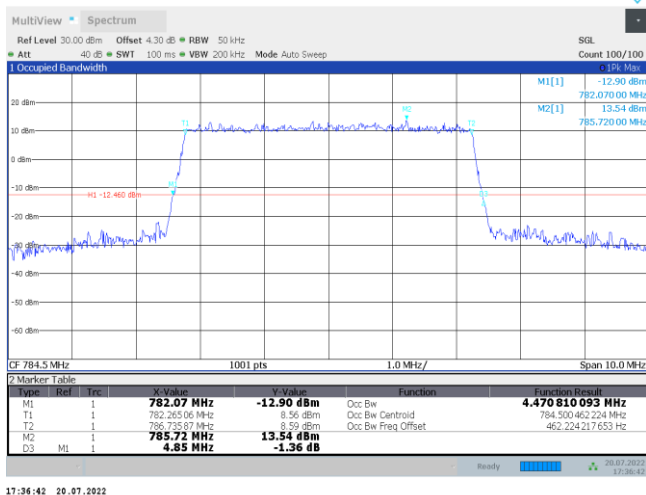


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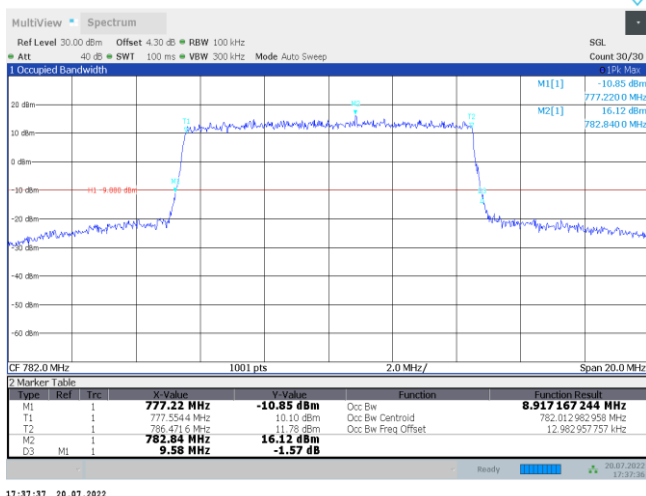


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Band13-5MHz-64QAM-23255-25RB#0



Band13-10MHz-QPSK-23230-50RB#0

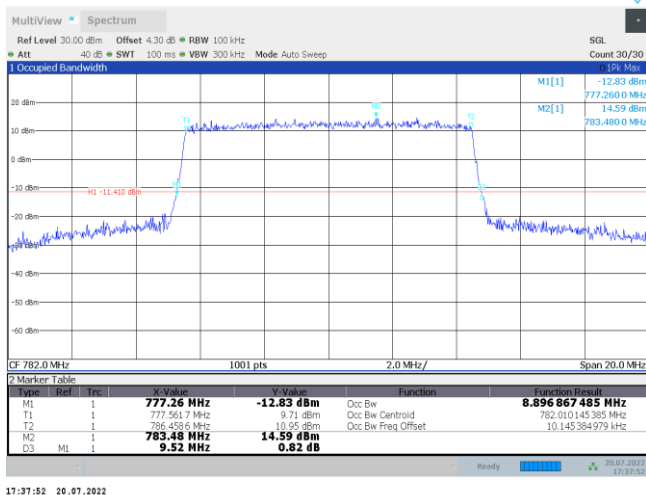


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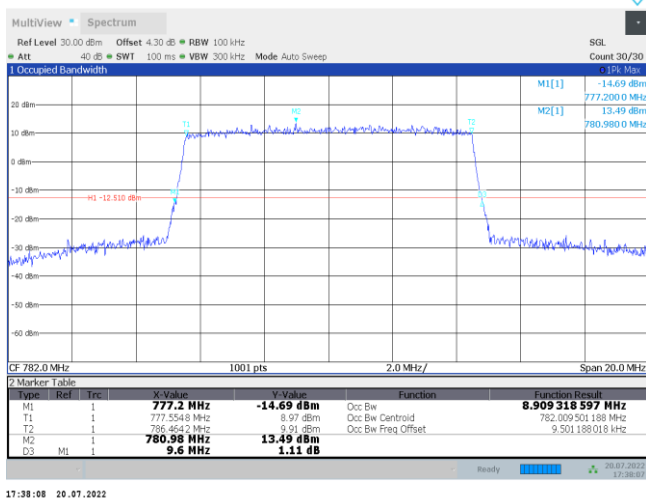
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Band13-10MHz-16QAM-23230-50RB#0



Band13-10MHz-64QAM-23230-50RB#0

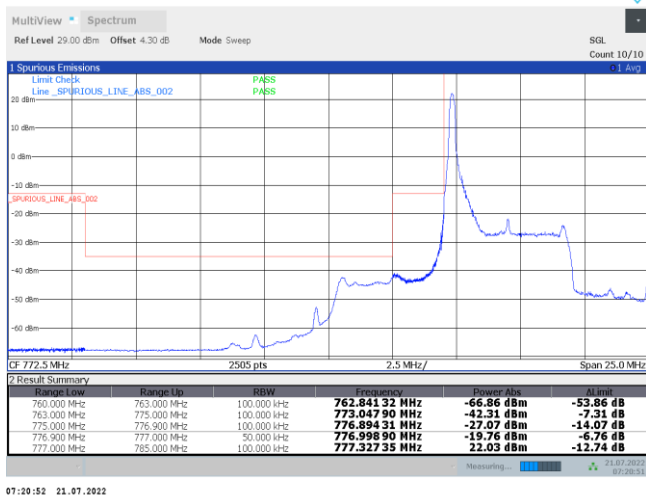


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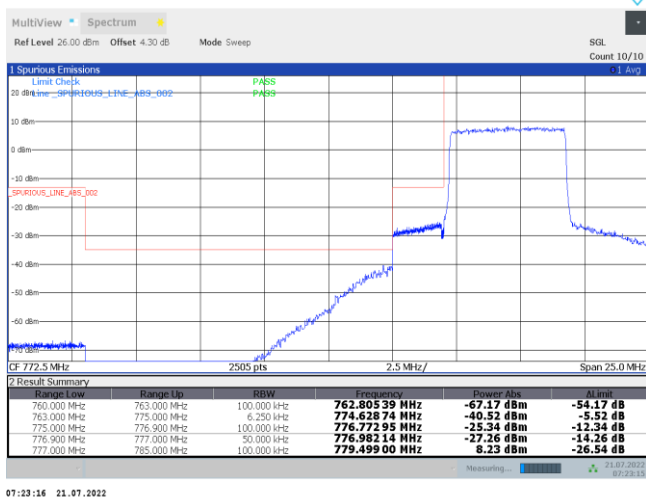
Band Edge

Test Graphs

Band13-5MHz-QPSK-23205-1RB#0



Band13-5MHz-QPSK-23205-25RB#0

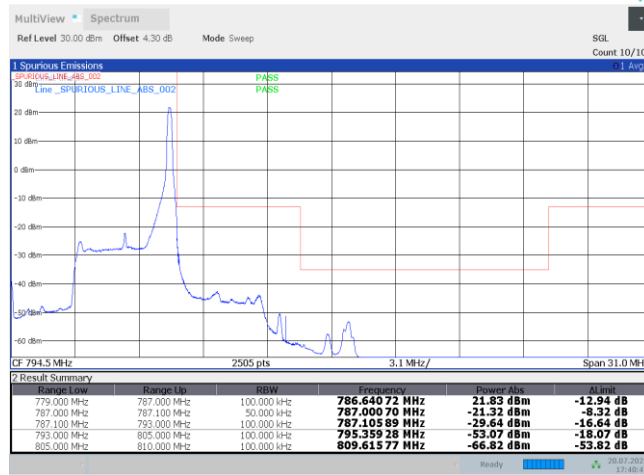


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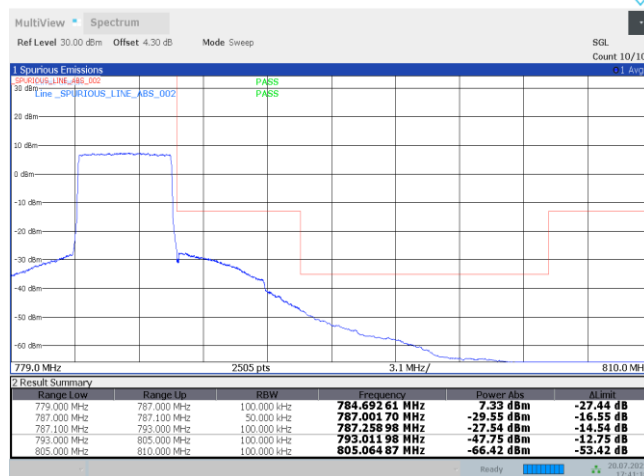
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Band13-5MHz-QPSK-23255-1RB#24



17:40:42 20.07.2022

Band13-5MHz-QPSK-23255-25RB#0

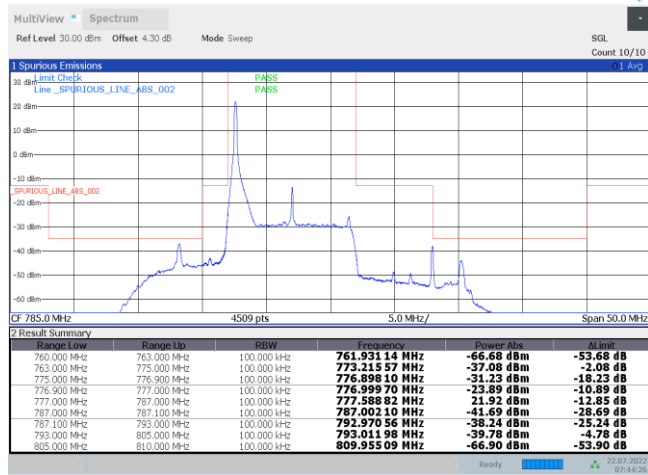


17:41:19 20.07.2022



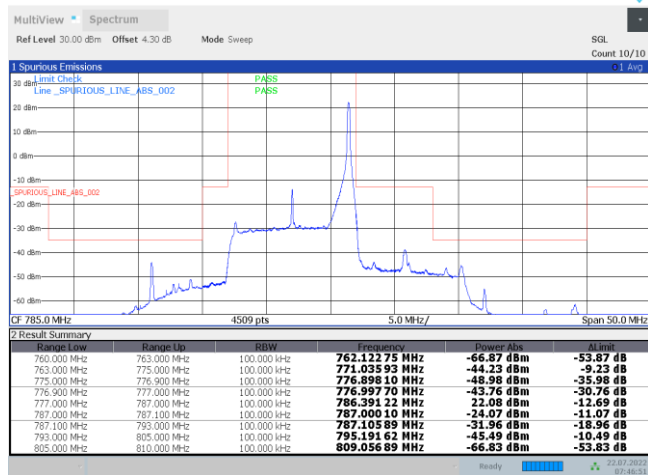
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Band13-10MHz-QPSK-23230-1RB#0



07:44:26 22.07.2022

Band13-10MHz-QPSK-23230-1RB#49



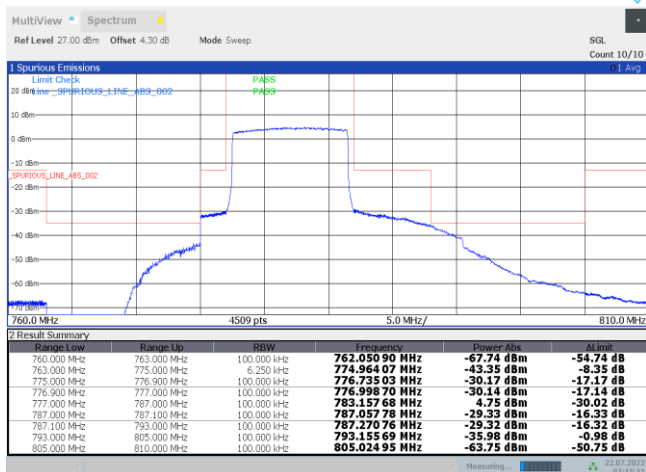
07:46:52 22.07.2022



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Band13-10MHz-QPSK-23230-50RB#0



07:45:31 22.07.2022

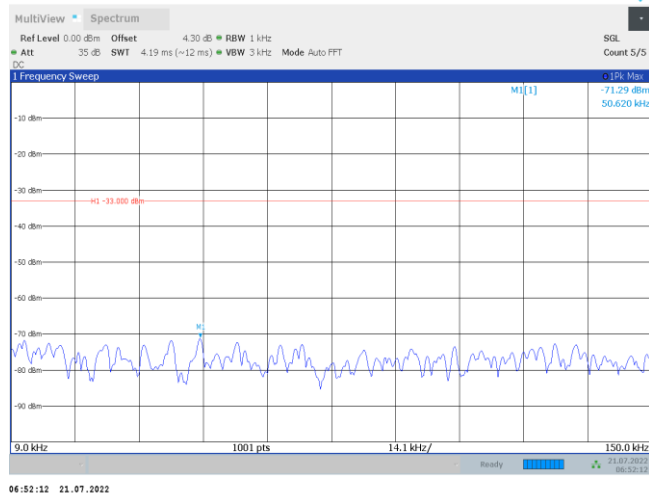


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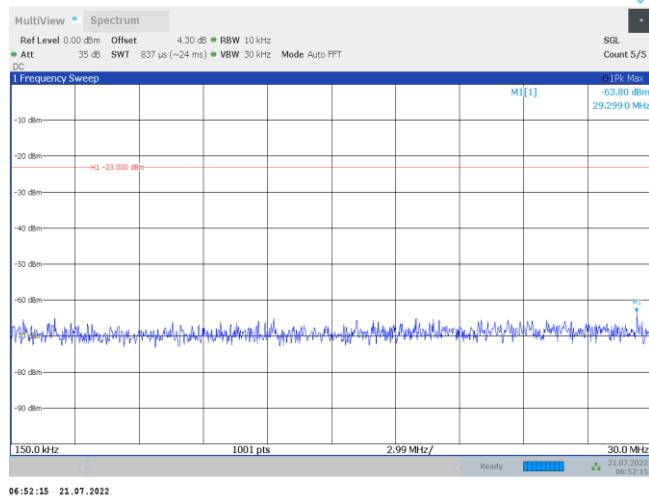
Conducted Spurious Emission

Test Graphs

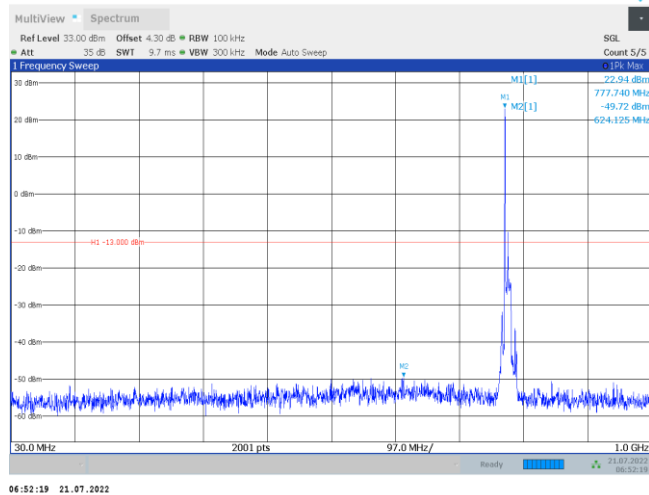
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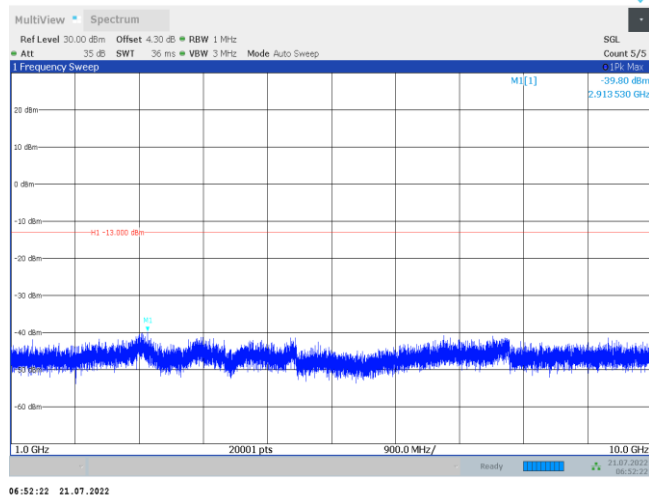
Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



Band13-10MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

For Sample #1:

Test Band = LTE Band13_10M_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	544.1300	54.15	-47.10	25.37	-62.84	-13.00	49.84	145	356	Horizontal
2	1555.1800	62.06	-48.30	25.41	-56.09	-13.00	43.09	261	281	Horizontal
3	2332.7700	54.09	-47.48	27.41	-61.25	-13.00	48.25	133	268	Horizontal
4	3110.3600	53.43	-46.70	29.53	-59.00	-13.00	46.00	216	356	Horizontal
5	3887.9500	55.86	-46.22	30.54	-55.08	-13.00	42.08	219	54	Horizontal
6	4665.5400	48.86	-45.80	31.91	-60.29	-13.00	47.29	173	8	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	544.1300	52.62	-47.10	25.37	-64.37	-13.00	51.37	125	225	Vertical
2	1555.1800	62.57	-48.30	25.41	-55.58	-13.00	42.58	148	184	Vertical
3	2332.7700	53.13	-47.48	27.41	-62.21	-13.00	49.21	195	92	Vertical
4	3110.3600	58.02	-46.70	29.53	-54.41	-13.00	41.41	176	198	Vertical
5	3887.9500	51.64	-46.22	30.54	-59.30	-13.00	46.30	230	13	Vertical
6	4665.5400	49.66	-45.80	31.91	-59.49	-13.00	46.49	166	360	Vertical



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 Wireless Laboratory

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Test Band = LTE Band13_5M_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	1554.6800	52.43	-48.30	25.41	-65.72	-13.00	52.72	126	280	Horizontal
2	2332.0200	50.75	-47.48	27.41	-64.59	-13.00	51.59	142	0	Horizontal
3	3109.3600	50.60	-46.71	29.53	-61.83	-13.00	48.83	148	55	Horizontal
4	3886.7000	50.11	-46.22	30.53	-60.84	-13.00	47.84	175	294	Horizontal
5	4664.0400	49.59	-45.80	31.91	-59.56	-13.00	46.56	236	307	Horizontal
6	5441.3800	49.44	-45.04	32.85	-58.02	-13.00	45.02	261	162	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	1554.6800	53.71	-48.30	25.41	-64.44	-13.00	51.44	133	360	Vertical
2	2332.0200	52.69	-47.48	27.41	-62.65	-13.00	49.65	125	197	Vertical
3	3109.3600	52.53	-46.71	29.53	-59.90	-13.00	46.90	142	360	Vertical
4	3886.7000	49.97	-46.22	30.53	-60.98	-13.00	47.98	169	279	Vertical
5	4664.0400	48.76	-45.80	31.91	-60.39	-13.00	47.39	191	79	Vertical
6	5441.3800	49.83	-45.04	32.85	-57.63	-13.00	44.63	147	360	Vertical



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Test Band = LTE Band13_5M_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	1559.6800	51.91	-48.30	25.40	-66.24	-40.00	26.24	177	16	Horizontal
2	2339.5200	52.25	-47.48	27.41	-63.08	-13.00	50.08	145	3	Horizontal
3	3119.3600	50.76	-46.66	29.55	-61.61	-13.00	48.61	191	122	Horizontal
4	3899.2000	50.26	-46.23	30.56	-60.67	-13.00	47.67	215	236	Horizontal
5	4679.0400	48.79	-45.80	31.95	-60.32	-13.00	47.32	236	68	Horizontal
6	5458.8800	48.73	-45.07	32.87	-58.74	-13.00	45.74	133	160	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	1559.6800	52.36	-48.30	25.40	-65.79	-40.00	25.79	211	360	Vertical
2	2339.5200	53.07	-47.48	27.41	-62.26	-13.00	49.26	263	224	Vertical
3	3119.3600	51.70	-46.66	29.55	-60.67	-13.00	47.67	295	185	Vertical
4	3899.2000	48.90	-46.23	30.56	-62.03	-13.00	49.03	145	224	Vertical
5	4679.0400	49.07	-45.80	31.95	-60.04	-13.00	47.04	162	80	Vertical
6	5458.8800	49.53	-45.07	32.87	-57.94	-13.00	44.94	177	118	Vertical



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Test Band = LTE Band13_5M_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	1564.6800	53.17	-48.29	25.40	-64.99	-40.00	24.99	211	294	Horizontal
2	2347.0200	51.90	-47.48	27.41	-63.42	-13.00	50.42	230	123	Horizontal
3	3129.3600	51.63	-46.61	29.56	-60.68	-13.00	47.68	136	176	Horizontal
4	3911.7000	48.87	-46.23	30.59	-62.02	-13.00	49.02	261	189	Horizontal
5	4694.0400	48.87	-45.80	32.00	-60.19	-13.00	47.19	144	357	Horizontal
6	5476.3800	48.22	-45.10	32.88	-59.26	-13.00	46.26	170	1	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	1564.6800	56.88	-48.29	25.40	-61.28	-40.00	21.28	251	360	Vertical
2	2347.0200	51.74	-47.48	27.41	-63.58	-13.00	50.58	233	224	Vertical
3	3129.3600	50.63	-46.61	29.56	-61.68	-13.00	48.68	299	171	Vertical
4	3911.7000	49.77	-46.23	30.59	-61.12	-13.00	48.12	211	330	Vertical
5	4694.0400	48.76	-45.80	32.00	-60.30	-13.00	47.30	170	90	Vertical
6	5476.3800	49.78	-45.10	32.88	-57.70	-13.00	44.70	133	171	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(dBμV) + AF(dB/m) + Factor(dB):

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

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)

dBm = dBμV - 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
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-3.10	-0.003964	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-6.80	-0.008696	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-1.40	-0.001790	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-2.40	-0.003069	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-2.60	-0.003325	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-5.20	-0.006650	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-2.60	-0.003325	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-4.50	-0.005754	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-2.60	-0.003325	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-2.80	-0.003581	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-1.60	-0.002046	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-4.30	-0.005499	PASS

---End of Attachment---



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