

Appendix B.6

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	22.68	24.98	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.15	25.45	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.91	25.21	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	21.99	24.29	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.01	25.31	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.17	25.47	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.9	25.2	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.16	24.46	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.97	25.27	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.03	25.33	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.72	25.02	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.08	24.38	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.76	24.06	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.4	24.7	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.72	24.02	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.06	23.36	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.48	23.78	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.91	24.21	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	21.5	23.8	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.13	23.43	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	21.67	23.97	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	21.71	24.01	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.55	23.85	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.08	23.38	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	20.7	23	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.19	23.49	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	20.7	23	34.77	PASS



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Rev.: 01

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Band13	5MHz	64QAM	23205	25RB#0	19.83	22.13	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	20.93	23.23	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.18	23.48	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	20.73	23.03	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.28	22.58	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.16	23.46	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.24	23.54	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	20.61	22.91	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.22	22.52	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.99	25.29	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.02	25.32	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.68	24.98	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.13	24.43	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	21.29	23.59	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	21.58	23.88	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	21.45	23.75	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21	23.3	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	20.59	22.89	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.07	23.37	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	20.83	23.13	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.05	22.35	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

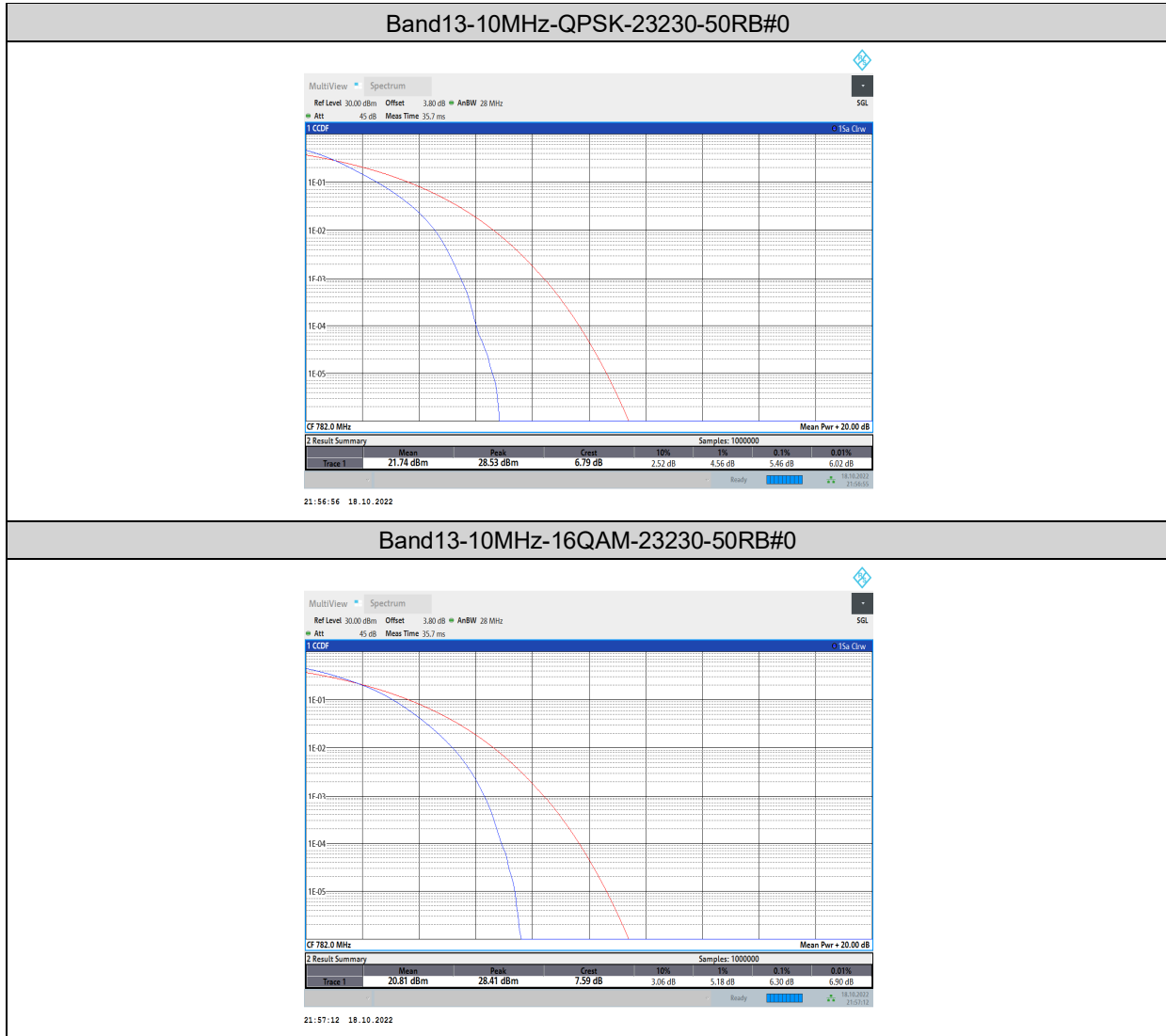
Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	5.46	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.30	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.70	13	PASS



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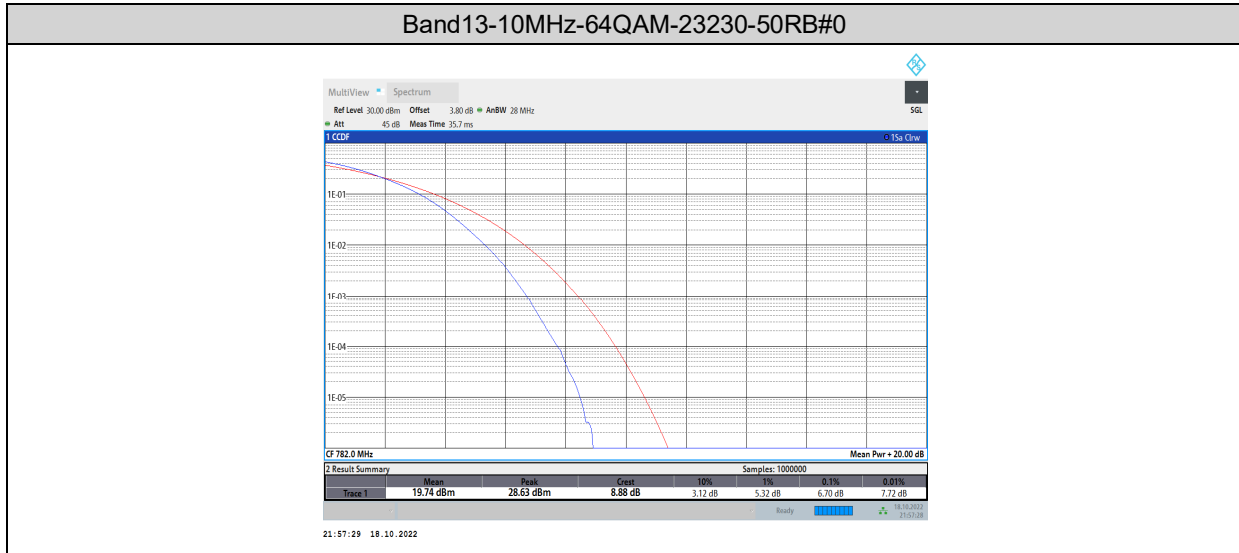
Test Graphs



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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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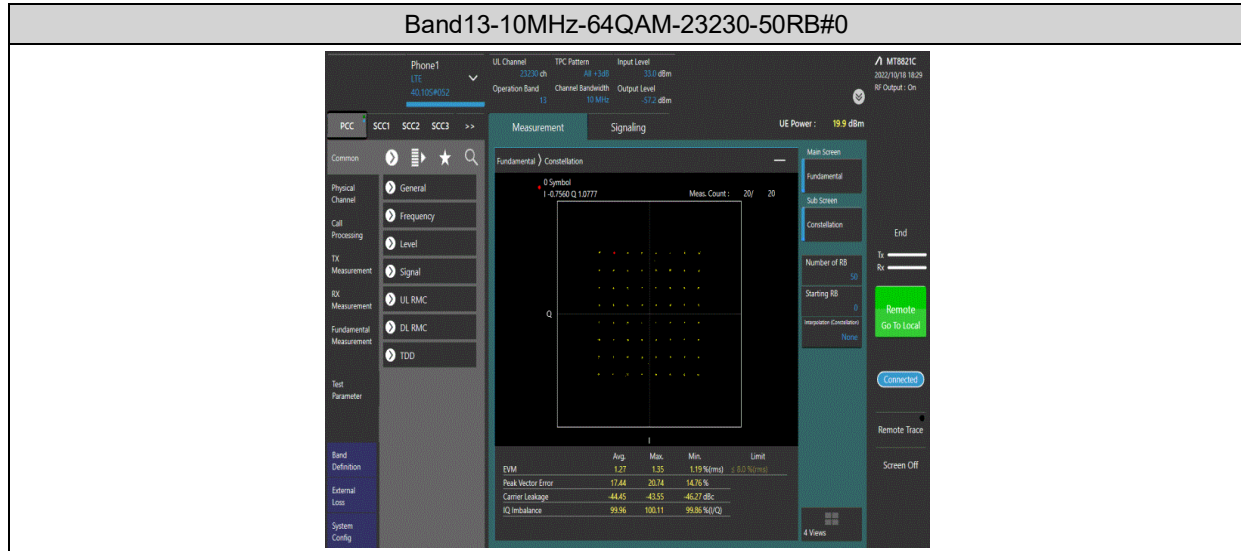
Test Graphs



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26dB Bandwidth and Occupied Bandwidth

Test Result

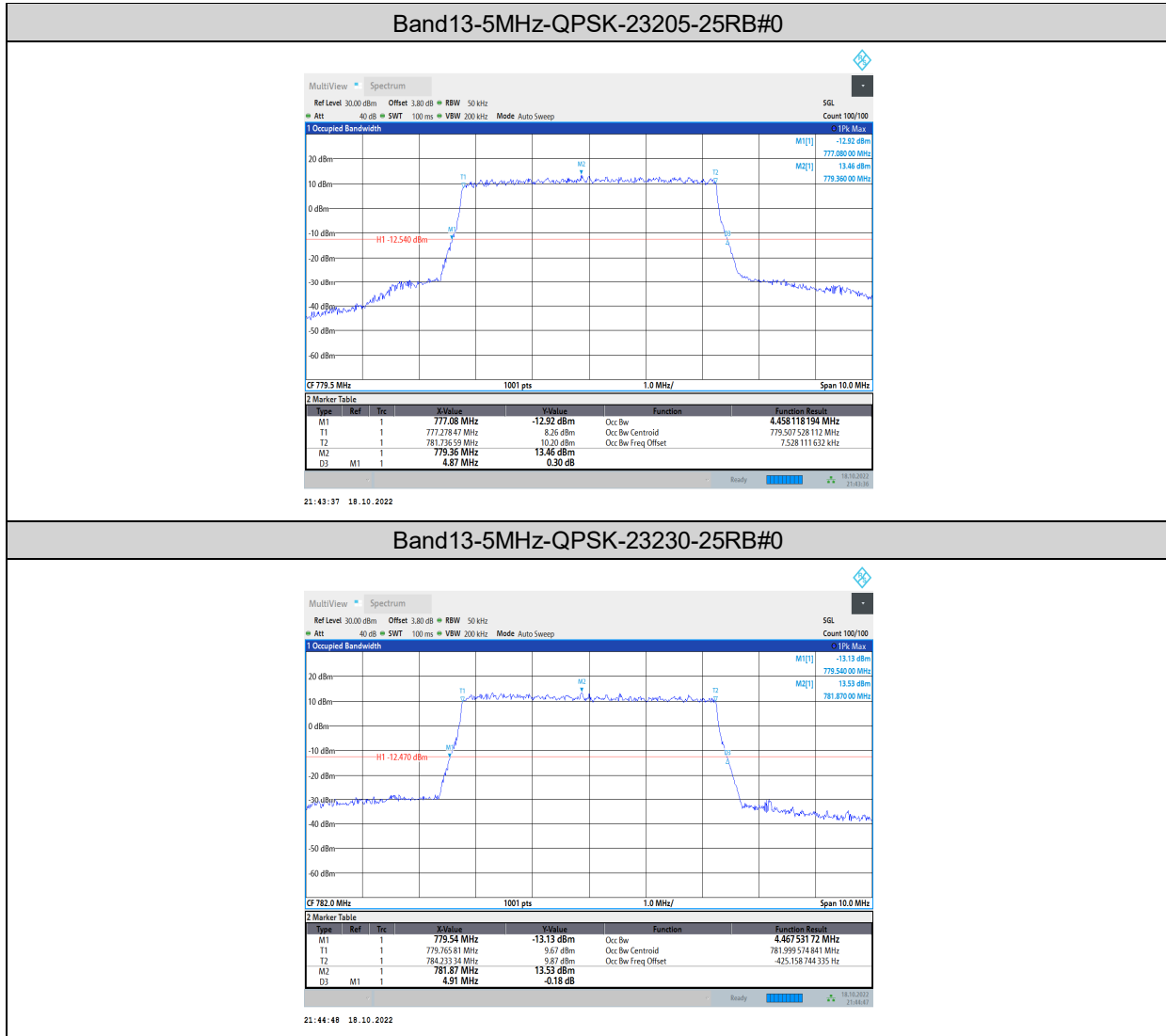
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.458	4.87	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.468	4.91	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.472	4.92	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.461	4.92	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.467	4.93	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.471	4.95	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.47	4.90	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.476	4.94	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.482	4.94	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.893	9.64	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.892	9.62	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.894	9.62	PASS



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Test Graphs

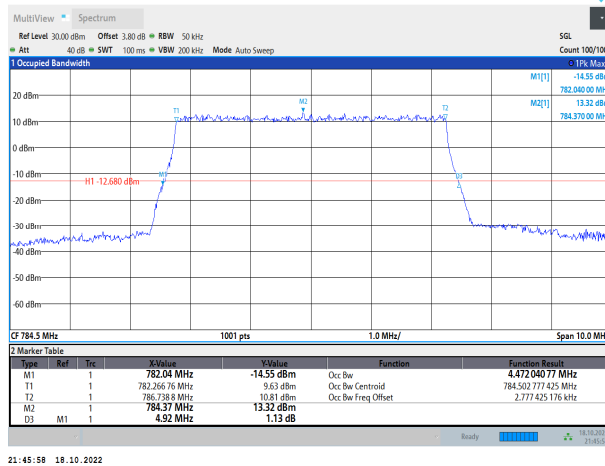


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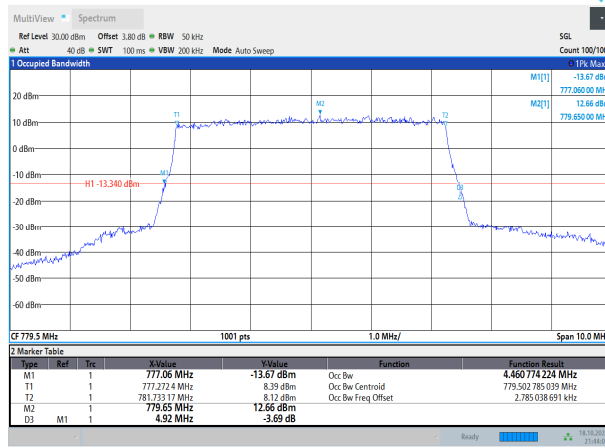
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Band13-5MHz-QPSK-23255-25RB#0



21:45:58 18.10.2022

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



21:44:01 18.10.2022

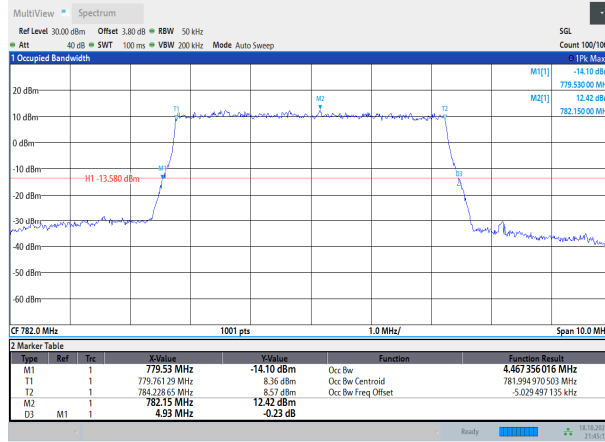


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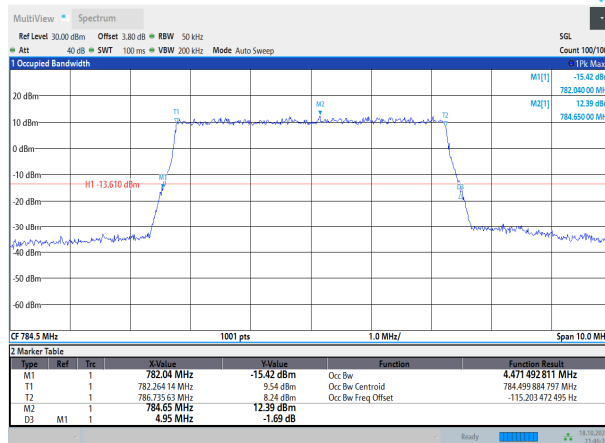
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Band13-5MHz-16QAM-23230-25RB#0



21:45:11 18.10.2022

Band13-5MHz-16QAM-23255-25RB#0



21:46:21 18.10.2022

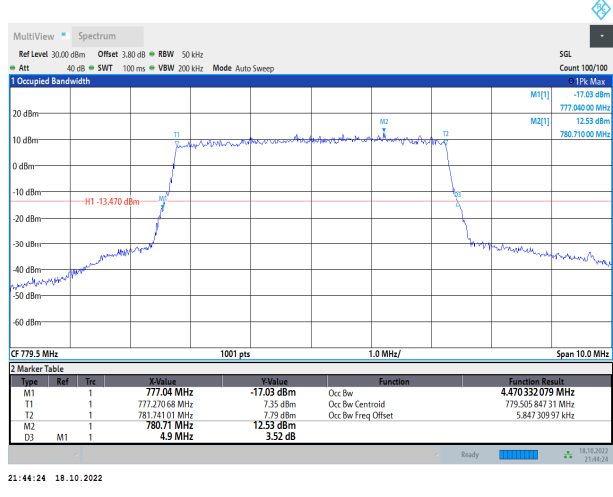


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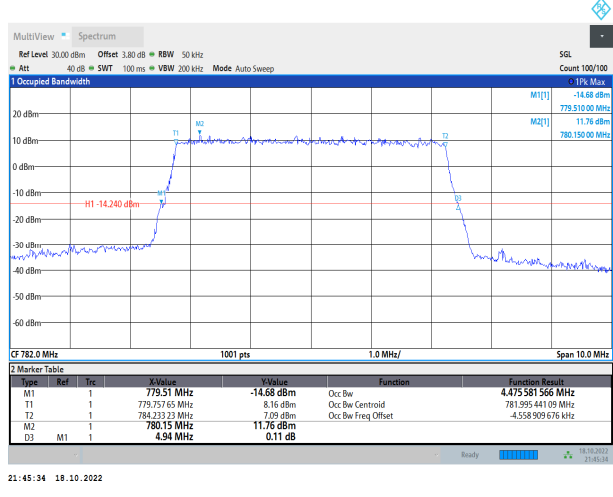
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Band13-5MHz-64QAM-23205-25RB#0



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

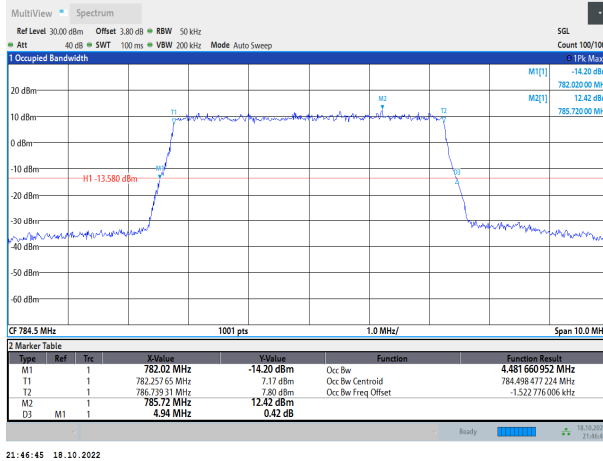


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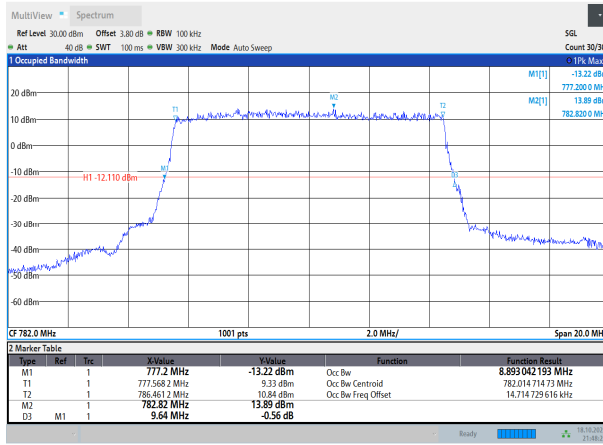
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Band13-5MHz-64QAM-23255-25RB#0



21:46:45 18.10.2022

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



21:48:23 18.10.2022

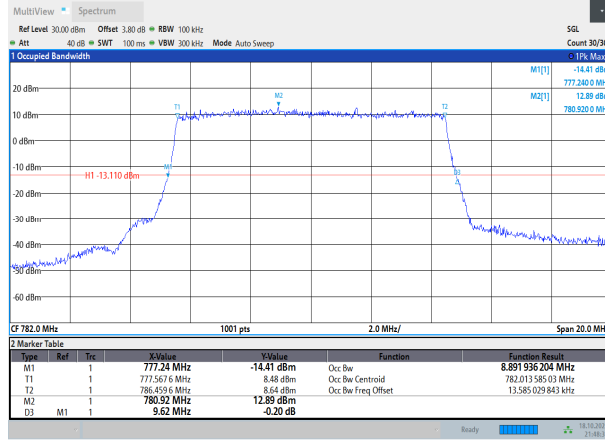


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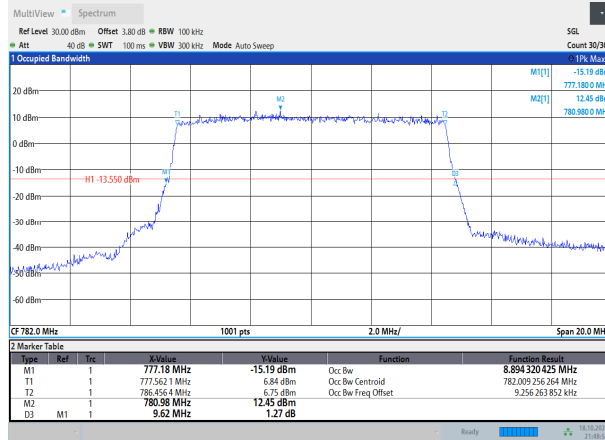
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Band13-10MHz-16QAM-23230-50RB#0



21:48:40 18.10.2022

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



21:48:56 18.10.2022



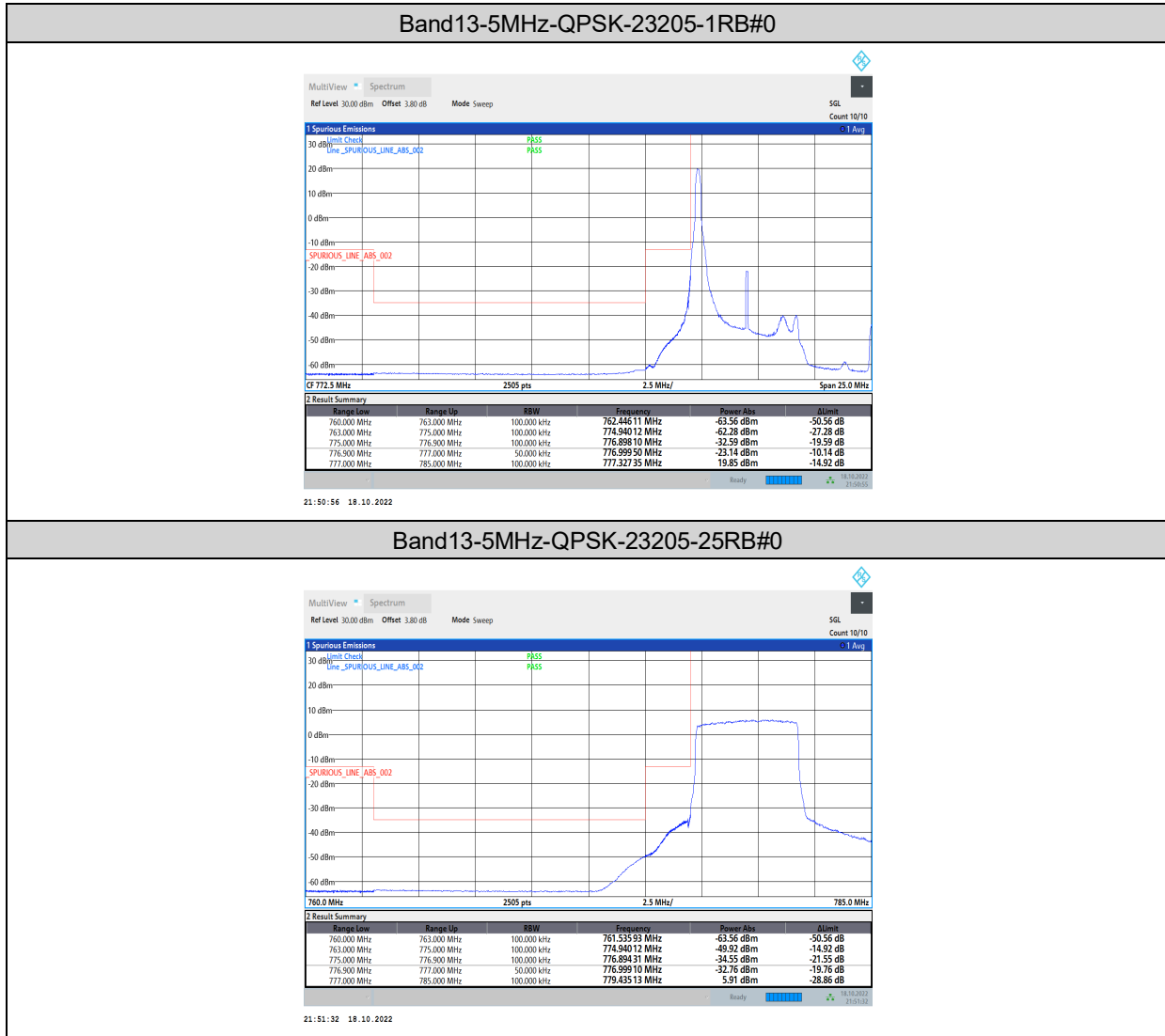
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Band Edge

Test Graphs

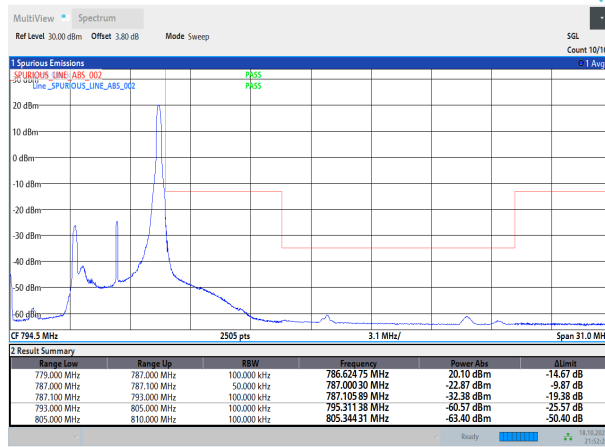


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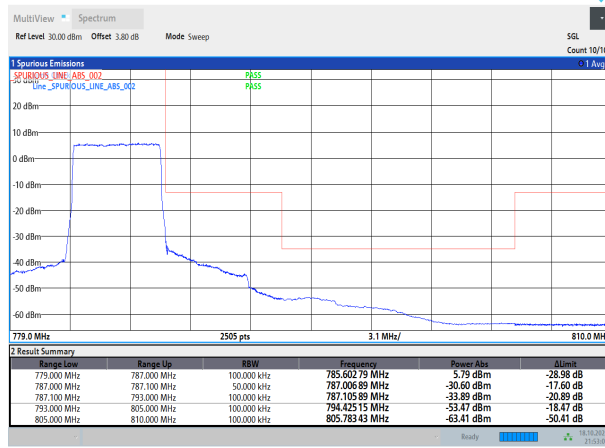
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Band13-5MHz-QPSK-23255-1RB#24



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

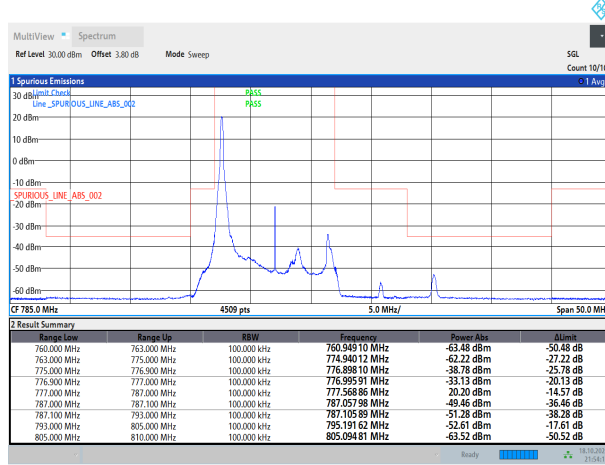


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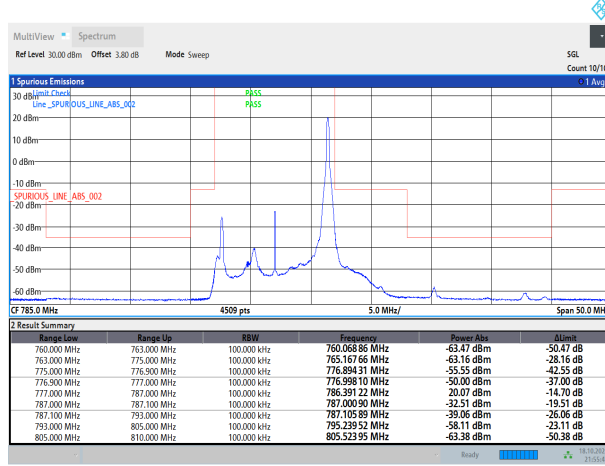
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Band13-10MHz-QPSK-23230-1RB#0



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

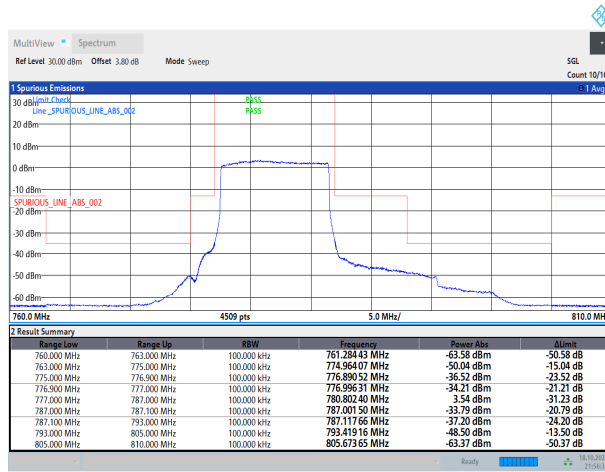


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Band13-10MHz-QPSK-23230-50RB#0



21:56:31 18.10.2022



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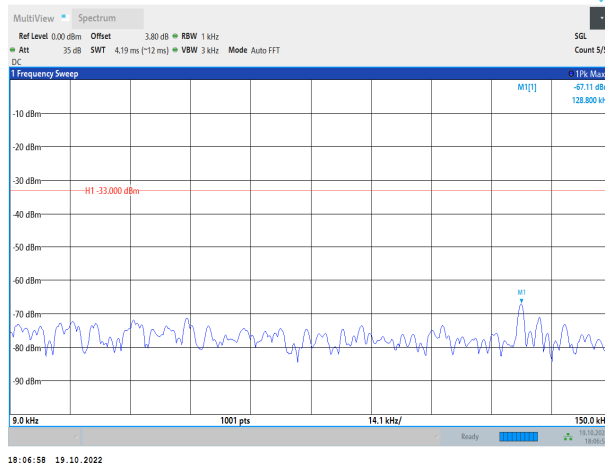
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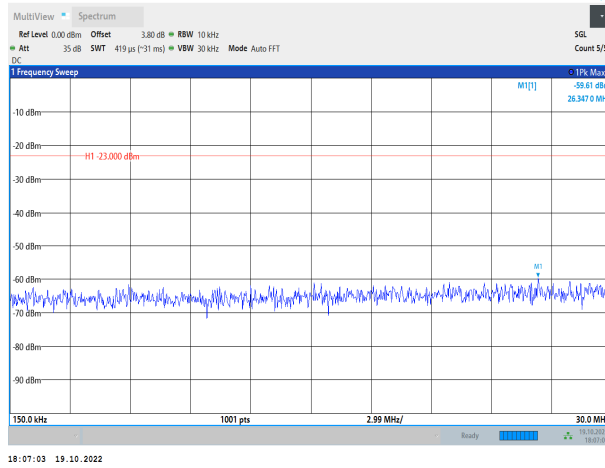
Conducted Spurious Emission

Test Graphs

Band13-10MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



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

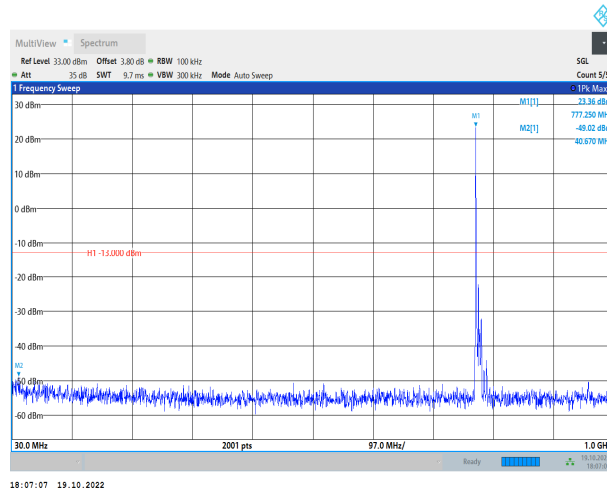


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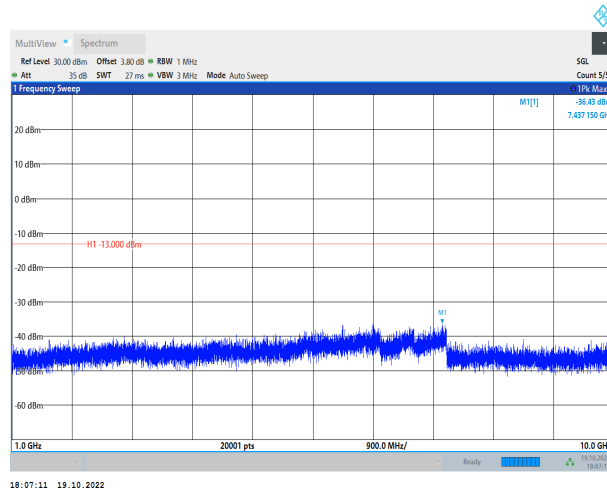
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



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



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Field Strength of Spurious Radiation

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	53.96	-47.10	25.37	-63.03	-13.00	50.03	145	306	Horizontal
2	1555.1800	52.76	-48.30	25.41	-65.39	-13.00	52.39	133	334	Horizontal
3	2332.7700	53.61	-47.48	27.41	-61.73	-13.00	48.73	152	0	Horizontal
4	3110.3600	49.48	-46.70	29.53	-62.95	-13.00	49.95	136	356	Horizontal
5	3887.9500	48.07	-46.22	30.54	-62.87	-13.00	49.87	255	347	Horizontal
6	4665.5400	47.23	-45.80	31.91	-61.92	-13.00	48.92	148	320	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	53.57	-47.10	25.37	-63.42	-13.00	50.42	254	280	Vertical
2	1555.1800	55.39	-48.30	25.41	-62.76	-13.00	49.76	199	360	Vertical
3	2332.7700	49.81	-47.48	27.41	-65.53	-13.00	52.53	184	67	Vertical
4	3110.3600	50.09	-46.70	29.53	-62.34	-13.00	49.34	175	25	Vertical
5	3887.9500	48.87	-46.22	30.54	-62.07	-13.00	49.07	142	360	Vertical
6	4665.5400	47.73	-45.80	31.91	-61.42	-13.00	48.42	136	306	Vertical



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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	53.61	-48.30	25.41	-64.54	-13.00	51.54	211	282	Horizontal
2	2332.0200	53.80	-47.48	27.41	-61.54	-13.00	48.54	145	5	Horizontal
3	3109.3600	50.72	-46.71	29.53	-61.71	-13.00	48.71	126	44	Horizontal
4	3886.7000	47.86	-46.22	30.53	-63.09	-13.00	50.09	135	10	Horizontal
5	4664.0400	47.34	-45.80	31.91	-61.81	-13.00	48.81	188	44	Horizontal
6	5441.3800	47.59	-45.04	32.85	-59.87	-13.00	46.87	196	256	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	55.95	-48.30	25.41	-62.20	-13.00	49.20	177	360	Vertical
2	2332.0200	51.32	-47.48	27.41	-64.02	-13.00	51.02	148	182	Vertical
3	3109.3600	48.79	-46.71	29.53	-63.64	-13.00	50.64	159	360	Vertical
4	3886.7000	48.32	-46.22	30.53	-62.63	-13.00	49.63	196	52	Vertical
5	4664.0400	48.17	-45.80	31.91	-60.98	-13.00	47.98	122	287	Vertical
6	5441.3800	47.82	-45.04	32.85	-59.64	-13.00	46.64	258	170	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	53.75	-48.30	25.40	-64.40	-40.00	24.40	248	309	Horizontal
2	2339.5200	54.05	-47.48	27.41	-61.28	-13.00	48.28	175	357	Horizontal
3	3119.3600	50.77	-46.66	29.55	-61.60	-13.00	48.60	233	0	Horizontal
4	3899.2000	48.71	-46.23	30.56	-62.22	-13.00	49.22	256	84	Horizontal
5	4679.0400	46.62	-45.80	31.95	-62.49	-13.00	49.49	145	255	Horizontal
6	5458.8800	47.20	-45.07	32.87	-60.27	-13.00	47.27	192	309	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	53.77	-48.30	25.40	-64.38	-40.00	24.38	255	359	Vertical
2	2339.5200	51.42	-47.48	27.41	-63.91	-13.00	50.91	148	50	Vertical
3	3119.3600	49.66	-46.66	29.55	-62.71	-13.00	49.71	166	359	Vertical
4	3899.2000	48.47	-46.23	30.56	-62.46	-13.00	49.46	133	302	Vertical
5	4679.0400	46.91	-45.80	31.95	-62.20	-13.00	49.20	259	132	Vertical
6	5458.8800	47.74	-45.07	32.87	-59.73	-13.00	46.73	191	76	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	51.56	-48.29	25.40	-66.60	-40.00	26.60	254	97	Horizontal
2	2347.0200	52.73	-47.48	27.41	-62.59	-13.00	49.59	199	10	Horizontal
3	3129.3600	50.08	-46.61	29.56	-62.23	-13.00	49.23	165	56	Horizontal
4	3911.7000	48.77	-46.23	30.59	-62.12	-13.00	49.12	122	188	Horizontal
5	4694.0400	48.56	-45.80	32.00	-60.50	-13.00	47.50	147	19	Horizontal
6	5476.3800	47.02	-45.10	32.88	-60.46	-13.00	47.46	175	109	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	53.99	-48.29	25.40	-64.17	-40.00	24.17	211	159	Vertical
2	2347.0200	51.08	-47.48	27.41	-64.24	-13.00	51.24	142	185	Vertical
3	3129.3600	51.81	-46.61	29.56	-60.50	-13.00	47.50	135	360	Vertical
4	3911.7000	49.09	-46.23	30.59	-61.80	-13.00	48.80	125	106	Vertical
5	4694.0400	48.33	-45.80	32.00	-60.73	-13.00	47.73	196	332	Vertical
6	5476.3800	47.58	-45.10	32.88	-59.90	-13.00	46.90	177	145	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) - Pre-amplifier (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
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-1.30	-0.001662	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-0.40	-0.000512	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-1.30	-0.001662	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	0.40	0.000512	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-1.40	-0.001790	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	0.20	0.000256	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-0.20	-0.000256	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-1.10	-0.001407	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-0.30	-0.000384	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-0.90	-0.001151	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	0.40	0.000512	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-1.10	-0.001407	PASS

$$|\text{MAX}(\Delta f)| = 1.4\text{Hz}$$

Frequency Stability	Frequency (MHz)	Limit Line	Result
fL - MAX(Δf)	777.565441	≥ 777 MHz	PASS
fH + MAX(Δf)	786.454282	≤ 787 MHz	

---End of Attachment---



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