

Report No.: SEWM2206000084RG01
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Appendix B.1

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	23.54	21.89	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	23.53	21.88	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	23.23	21.58	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.09	20.44	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.51	21.86	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	23.58	21.93	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	23.06	21.41	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.13	20.48	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.27	21.62	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	23.19	21.54	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.88	21.23	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.16	20.51	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	21.99	20.34	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.58	20.93	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	21.78	20.13	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.2	19.55	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	21.91	20.26	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	21.71	20.06	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.17	20.52	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.1	19.45	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	21.86	20.21	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.44	20.79	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	21.87	20.22	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.1	19.45	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	22.43	20.78	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	22.21	20.56	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.55	19.9	34.77	PASS



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Band13	5MHz	64QAM	23205	25RB#0	20.42	18.77	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.38	19.73	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.92	20.27	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	22.02	20.37	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	21.02	19.37	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.75	20.1	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.63	19.98	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.81	20.16	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.96	19.31	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	23.32	21.67	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	23.43	21.78	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	23.17	21.52	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.15	20.5	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.3	20.65	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.65	21	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.03	20.38	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.36	19.71	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.88	20.23	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.83	20.18	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.83	20.18	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	21.21	19.56	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	1RB#0	5.50	13	PASS
Band13	10MHz	16QAM	23230	1RB#0	4.04	13	PASS
Band13	10MHz	64QAM	23230	1RB#0	4.26	13	PASS



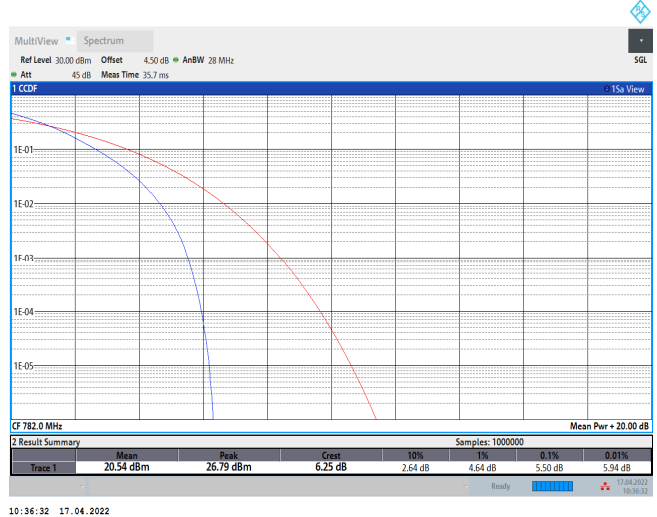
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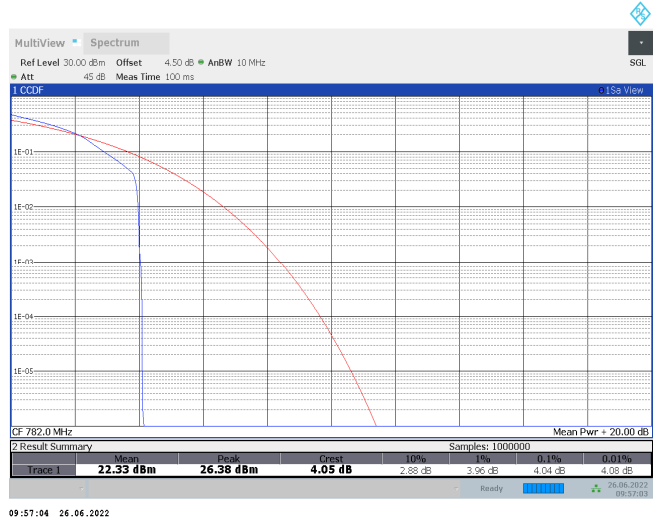
Test Graphs

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



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Band13-10MHz-16QAM-23230-1RB#0

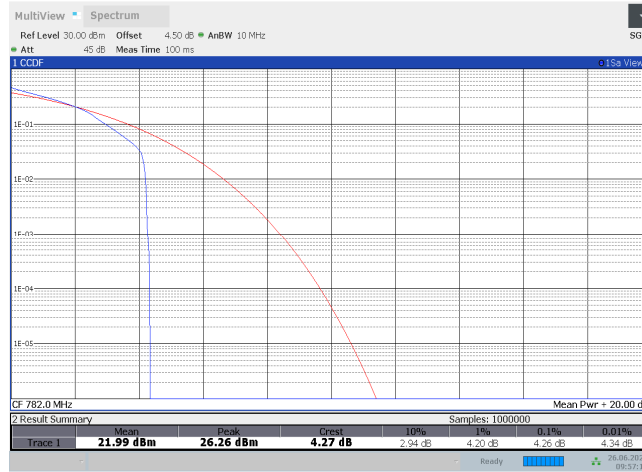


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Band13-10MHz-64QAM-23230-1RB#0



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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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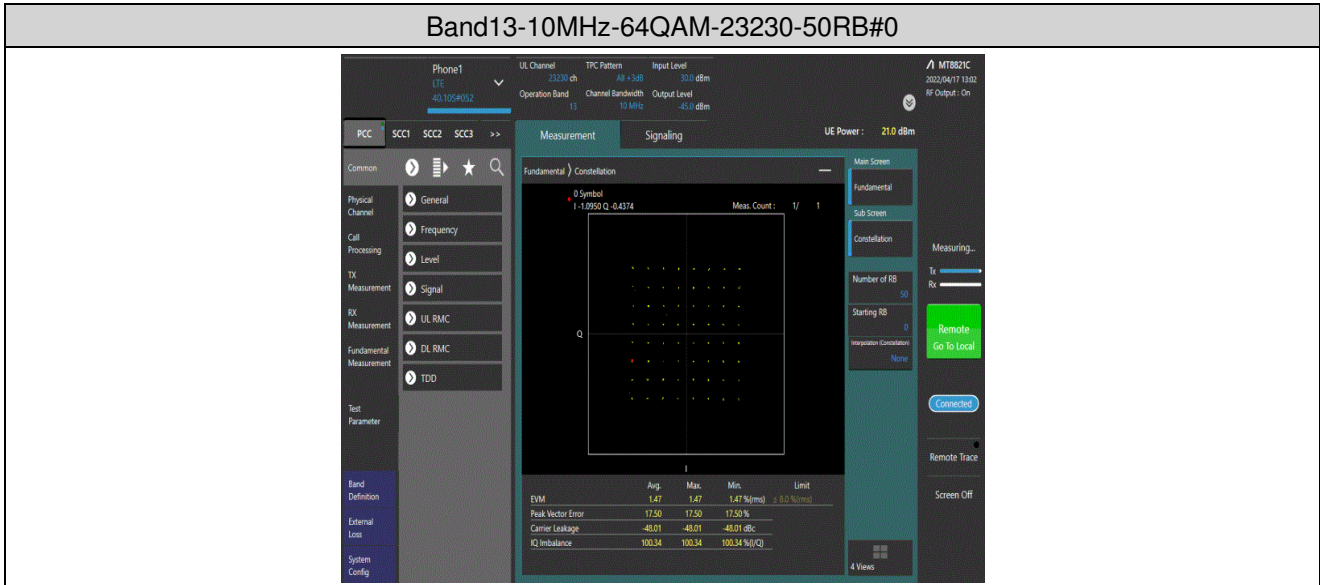
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Test Graphs



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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	4.44	4.73	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.468	4.88	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.445	4.85	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.465	4.91	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.469	4.90	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.443	4.86	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.464	4.91	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.473	4.89	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.437	4.81	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.908	9.60	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.863	9.30	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.894	9.60	PASS



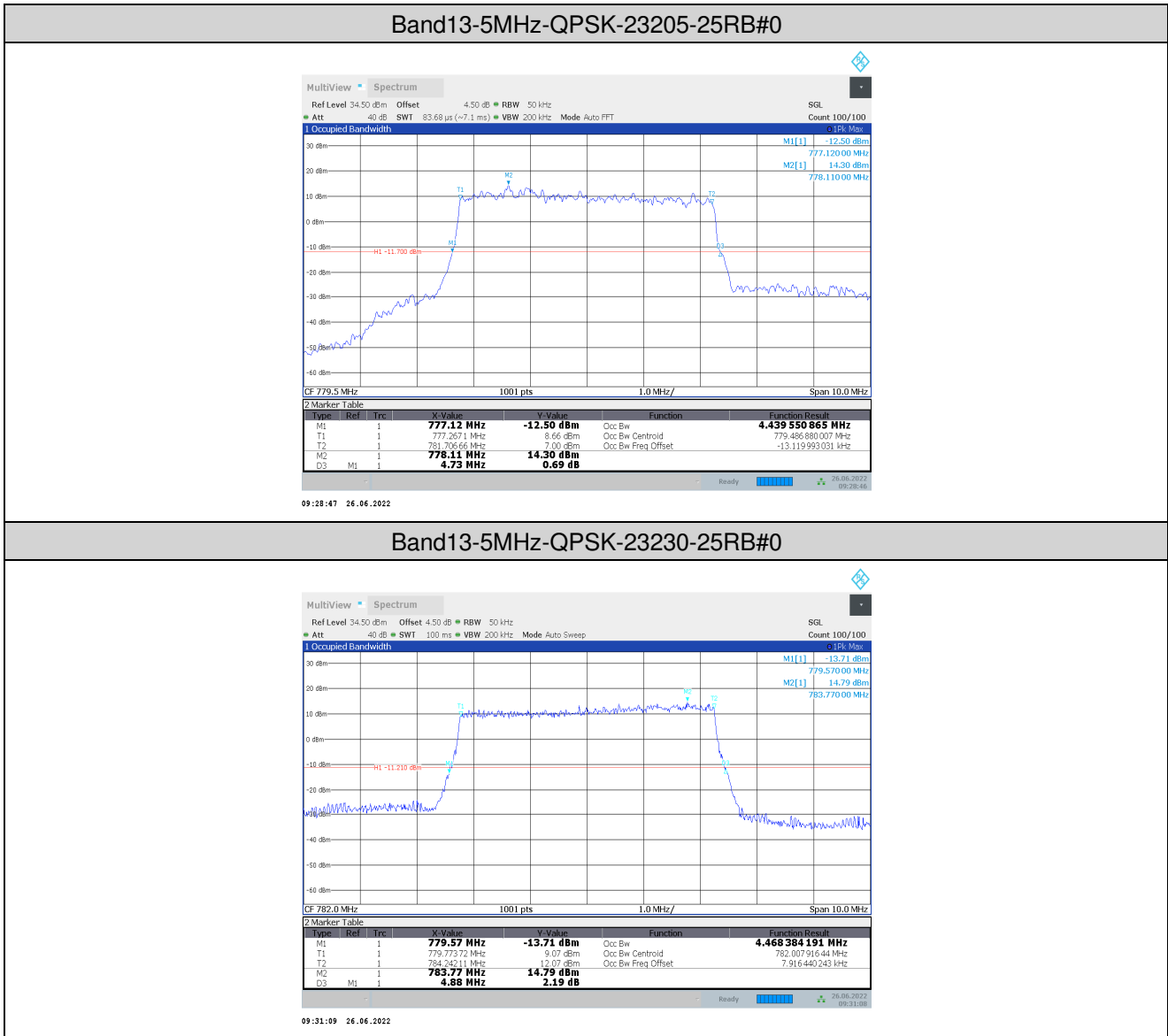
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Test Graphs

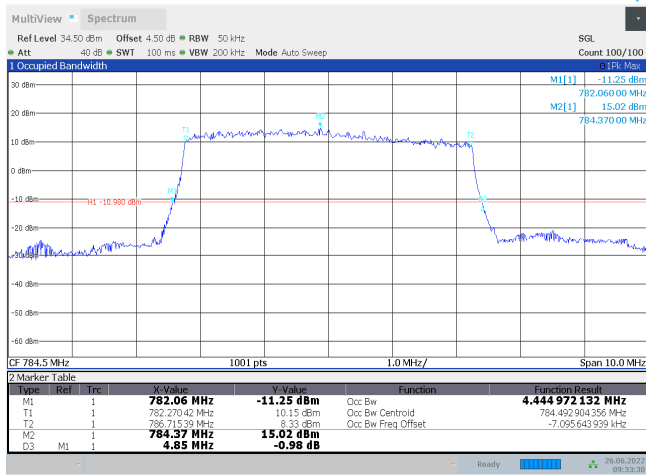


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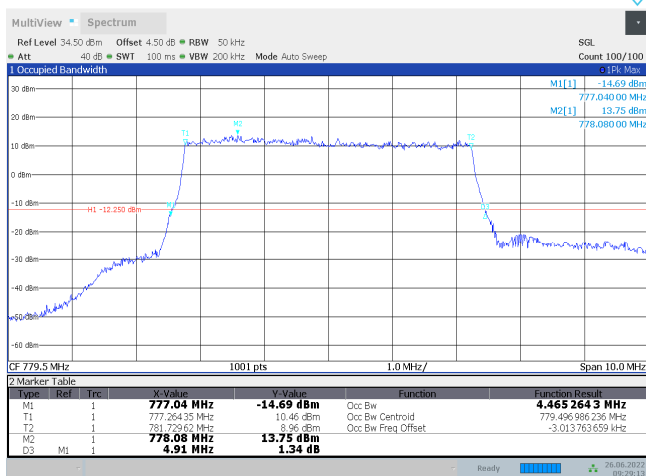
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Band13-5MHz-QPSK-23255-25RB#0



09:33:31 26.06.2022

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

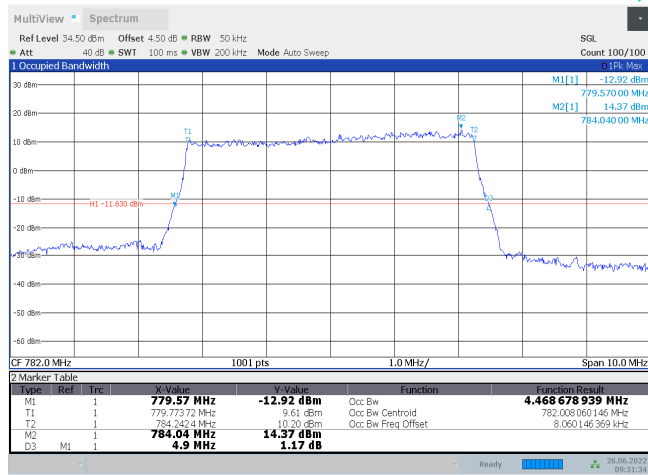


09:29:14 26.06.2022



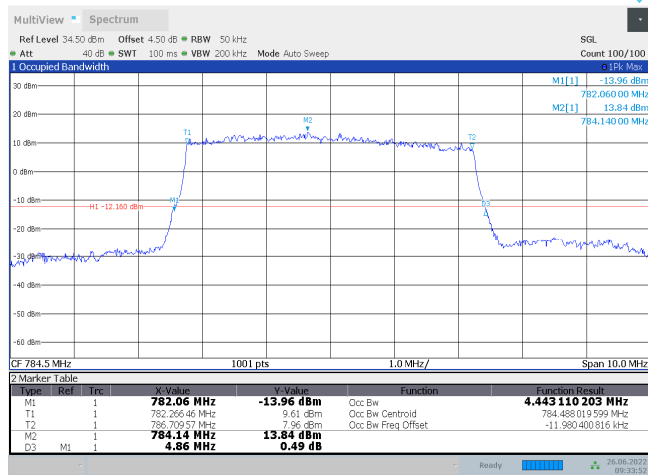
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Band13-5MHz-16QAM-23230-25RB#0



09:31:35 26.06.2022

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

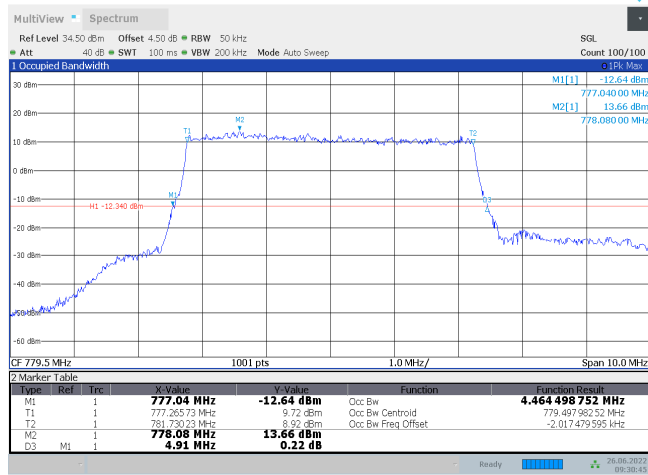


09:33:53 26.06.2022



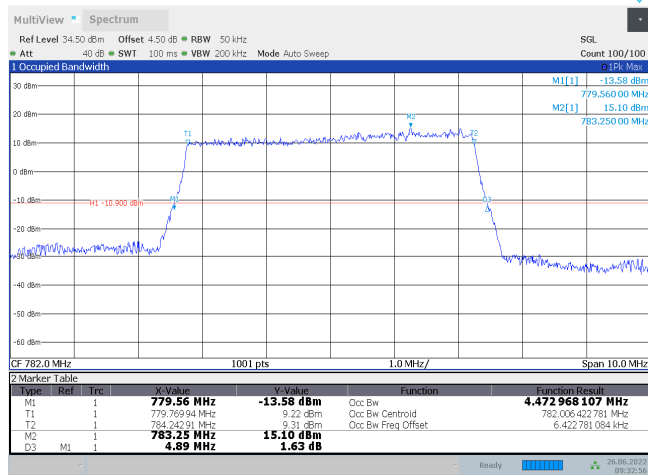
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Band13-5MHz-64QAM-23205-25RB#0



09:30:46 26.06.2022

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



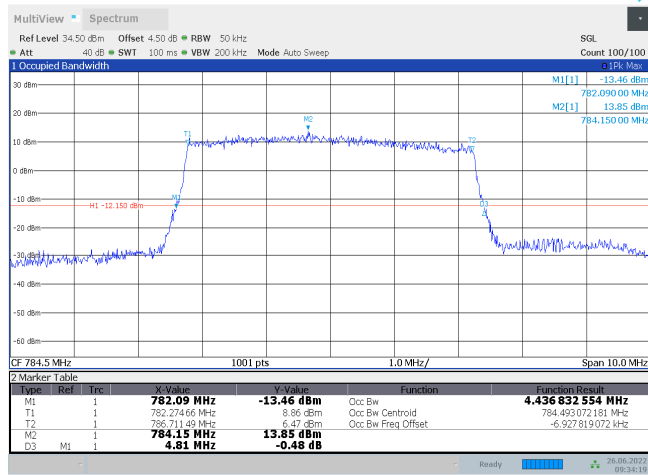
09:32:57 26.06.2022



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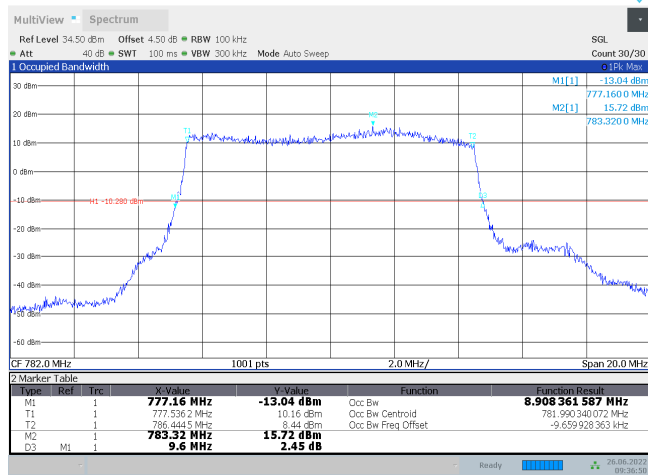
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Band13-5MHz-64QAM-23255-25RB#0



09:34:20 26.06.2022

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



09:36:51 26.06.2022

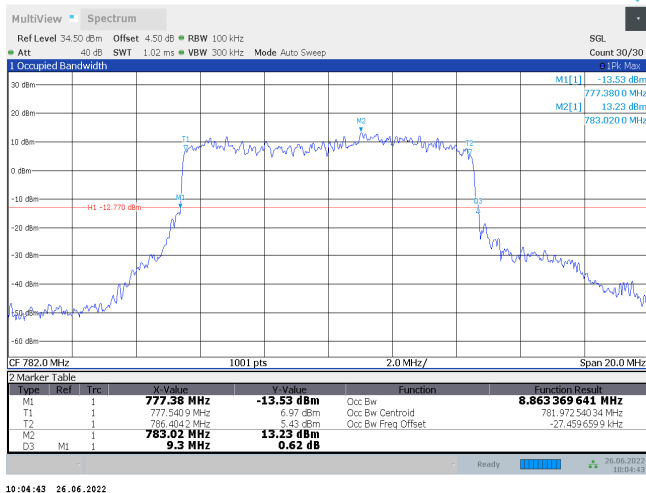


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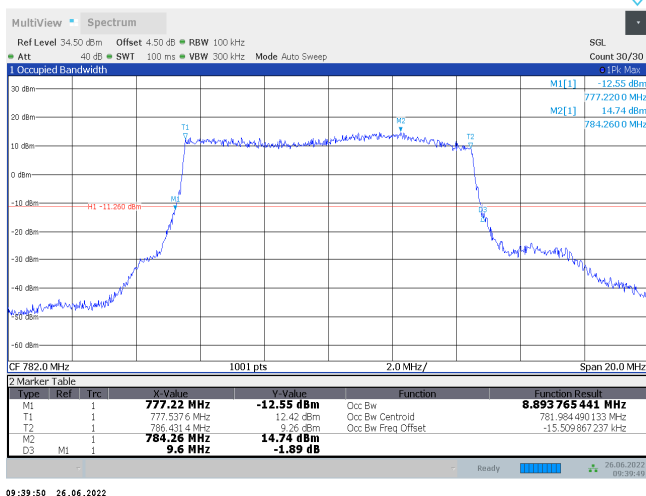
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Band13-10MHz-16QAM-23230-50RB#0



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

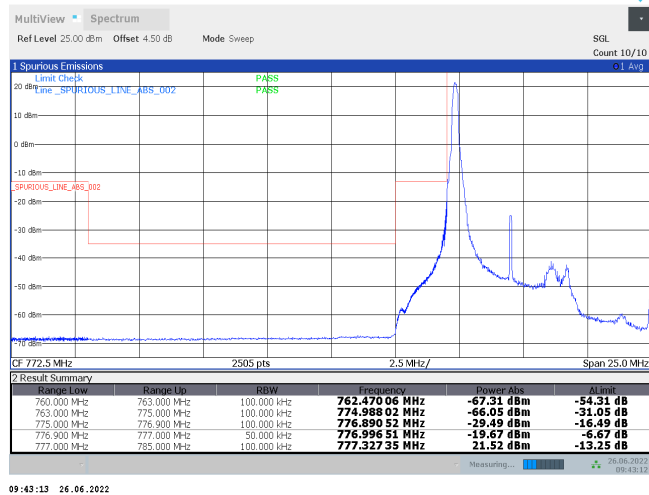


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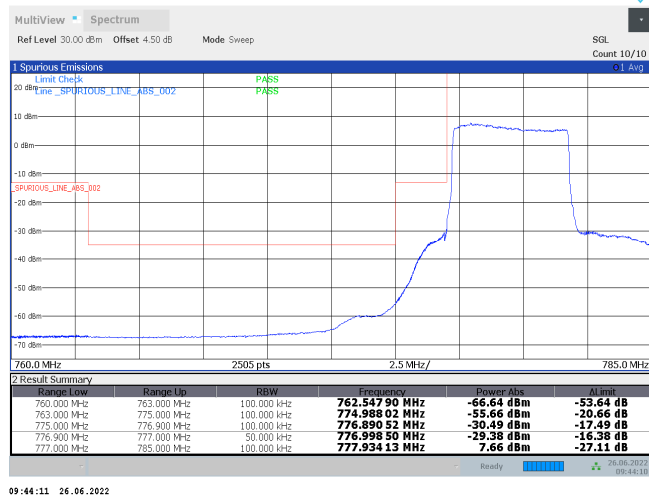
Band Edge

Test Graphs

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



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

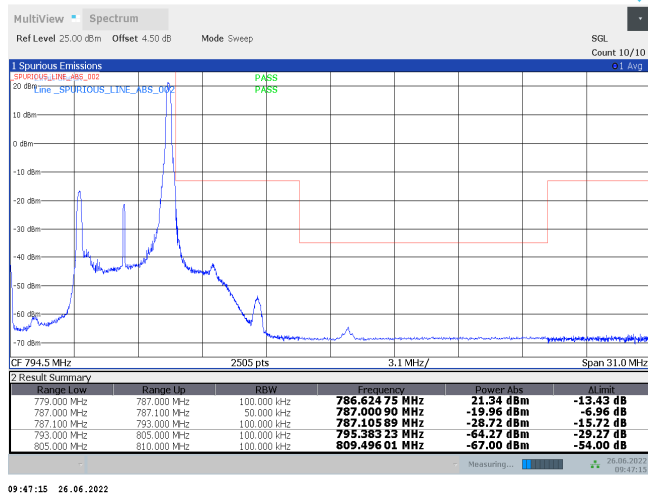


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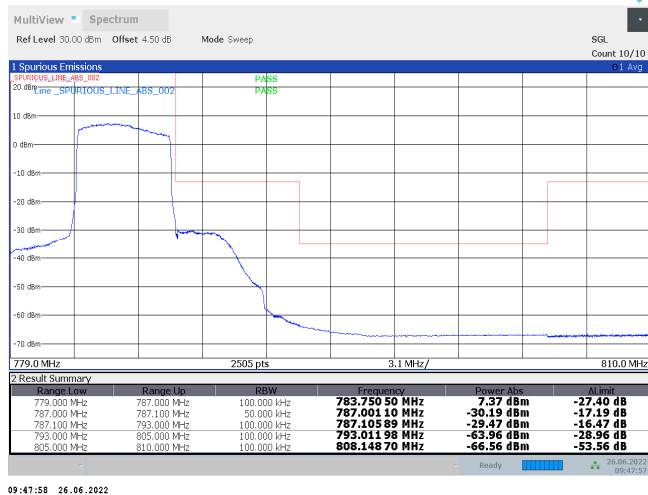
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Band13-5MHz-QPSK-23255-1RB#24



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

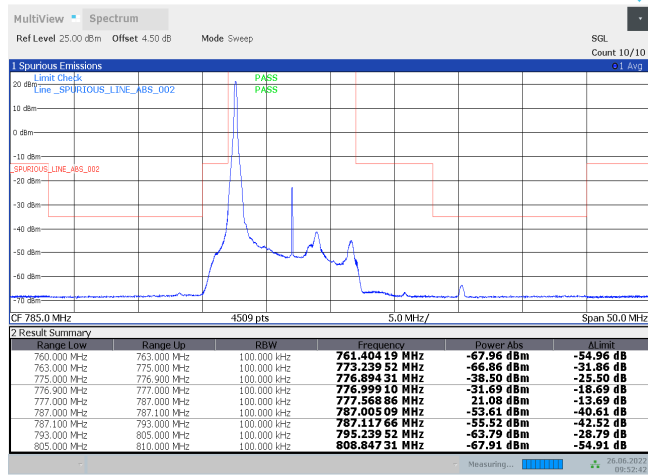


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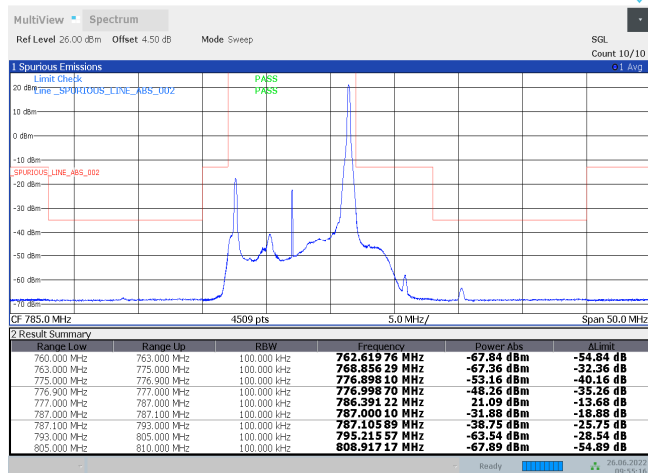
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Band13-10MHz-QPSK-23230-1RB#0



09:52:42 26.06.2022

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



09:55:16 26.06.2022



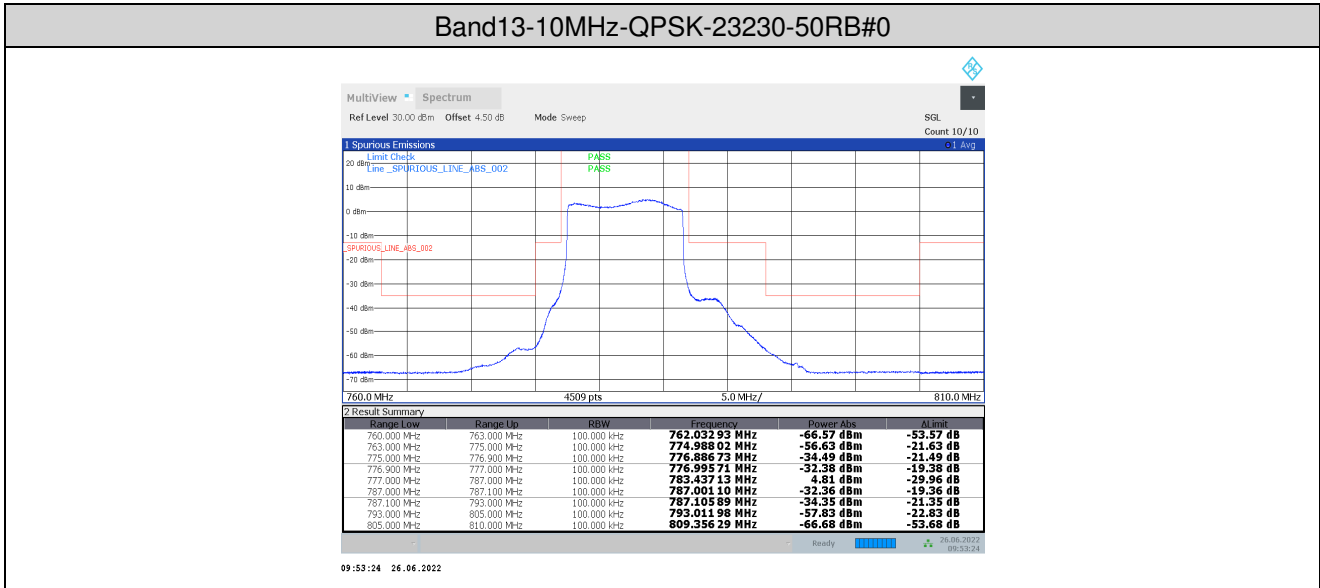
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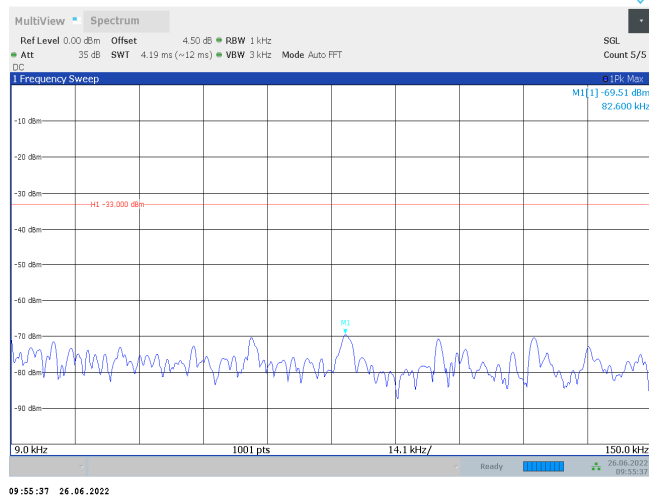
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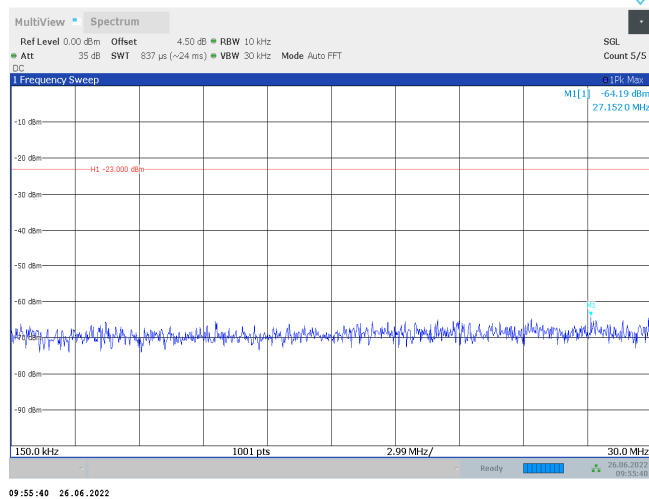
Conducted Spurious Emission

Test Graphs

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

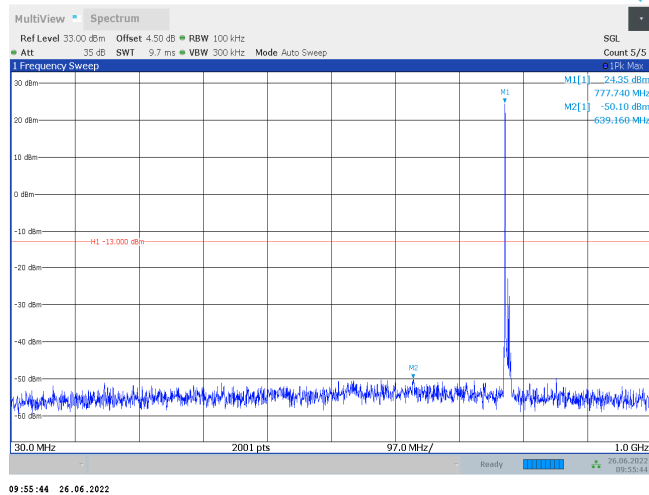


Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz

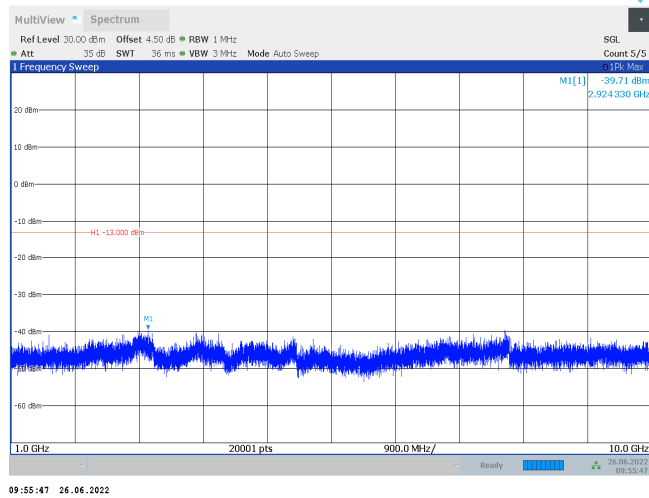


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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



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]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1555.1800	71.07	-118.15	-47.08	-13.00	34.08	125	172	Horizontal
2	2332.7700	76.57	-115.34	-38.77	-13.00	25.77	236	266	Horizontal
3	3110.3600	51.09	-112.43	-61.34	-13.00	48.34	164	26	Horizontal
4	3887.9500	49.47	-110.94	-61.47	-13.00	48.47	199	266	Horizontal
5	4665.5400	48.45	-109.15	-60.70	-13.00	47.70	185	356	Horizontal
6	5443.1300	49.53	-107.46	-57.93	-13.00	44.93	142	346	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1555.1800	65.53	-118.15	-52.62	-13.00	39.62	155	120	Vertical
2	2332.7700	73.90	-115.34	-41.44	-13.00	28.44	184	265	Vertical
3	3110.3600	51.33	-112.43	-61.10	-13.00	48.10	196	185	Vertical
4	3887.9500	50.12	-110.94	-60.82	-13.00	47.82	175	359	Vertical
5	4665.5400	48.56	-109.15	-60.59	-13.00	47.59	122	277	Vertical
6	5443.1300	49.45	-107.46	-58.01	-13.00	45.01	201	26	Vertical



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Test Band = LTE Band13_5M_TM1
Test Channel = Low

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.6800	70.09	-118.15	-48.06	-13.00	35.06	126	174	Horizontal
2	2332	76.31	-115.34	-39.03	-13.00	26.03	236	347	Horizontal
3	3109.3600	51.80	-112.43	-60.63	-13.00	47.63	154	1	Horizontal
4	3886.7000	49.48	-110.95	-61.47	-13.00	48.47	195	54	Horizontal
5	4664.0400	48.76	-109.15	-60.39	-13.00	47.39	172	334	Horizontal
6	5441.3800	49.12	-107.46	-58.34	-13.00	45.34	155	16	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.6800	63.73	-118.15	-54.42	-13.00	41.42	128	145	Vertical
2	2332.0200	73.36	-115.34	-41.98	-13.00	28.98	194	265	Vertical
3	3109.3600	51.22	-112.43	-61.21	-13.00	48.21	175	78	Vertical
4	3886.7000	49.60	-110.95	-61.35	-13.00	48.35	163	265	Vertical
5	4664.0400	48.93	-109.15	-60.22	-13.00	47.22	251	198	Vertical
6	5441.3800	48.50	-107.46	-58.96	-13.00	45.96	142	330	Vertical



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Test Band = LTE Band13_5M_TM1
Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.6800	70.87	-118.15	-47.28	-40.00	7.28	111	172	Horizontal
2	2339.5200	74.80	-115.33	-40.53	-13.00	27.53	255	357	Horizontal
3	3119.3600	51.65	-112.37	-60.72	-13.00	47.72	169	280	Horizontal
4	3899.2000	50.39	-110.93	-60.54	-13.00	47.54	236	0	Horizontal
5	4679.0400	49.91	-109.11	-59.20	-13.00	46.20	201	294	Horizontal
6	5458.8800	50.33	-107.47	-57.14	-13.00	44.14	233	1	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.6800	63.92	-118.15	-54.23	-40.00	14.23	254	118	Vertical
2	2339.5200	74.00	-115.33	-41.33	-13.00	28.33	184	267	Vertical
3	3119.3600	51.41	-112.37	-60.96	-13.00	47.96	196	359	Vertical
4	3899.2000	49.13	-110.93	-61.80	-13.00	48.80	175	185	Vertical
5	4679.0400	49.76	-109.11	-59.35	-13.00	46.35	148	106	Vertical
6	5458.8800	48.59	-107.47	-58.88	-13.00	45.88	180	360	Vertical



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Test Band = LTE Band13_5M_TM1

Test Channel = High

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.5714	69.59	-118.16	-48.57	-40.00	8.57	154	175	Horizontal
2	2346.8571	76.87	-115.32	-38.45	-13.00	25.45	155	68	Horizontal
3	3129.3600	50.87	-112.31	-61.44	-13.00	48.44	120	1	Horizontal
4	3911.7000	50.84	-110.89	-60.05	-13.00	47.05	155	42	Horizontal
5	4694.0400	48.79	-109.06	-60.27	-13.00	47.27	191	201	Horizontal
6	5476.3800	48.97	-107.48	-58.51	-13.00	45.51	171	1	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.5714	64.36	-118.16	-53.80	-40.00	13.80	125	277	Vertical
2	2346.8571	76.72	-115.32	-38.60	-13.00	25.60	194	263	Vertical
3	3129.3600	50.53	-112.31	-61.78	-13.00	48.78	185	13	Vertical
4	3911.7000	49.59	-110.89	-61.30	-13.00	48.30	233	360	Vertical
5	4694.0400	48.65	-109.06	-60.41	-13.00	47.41	260	184	Vertical
6	5476.3800	47.85	-107.48	-59.63	-13.00	46.63	154	304	Vertical



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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	-0.80	-0.001023	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-0.20	-0.000256	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-0.60	-0.000767	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-1.30	-0.001662	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-0.90	-0.001151	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-0.70	-0.000895	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-0.30	-0.000384	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-0.20	-0.000256	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-0.90	-0.001151	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-2.10	-0.002685	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-1.00	-0.001279	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-1.90	-0.002430	PASS

The End



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 Wireless Laboratory

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