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Appendix B.11

LTE Cat-M1 Band66



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP (dBm)	Limit (dBm)	Verdict
Band66	1.4M	QPSK	L	1RB0	20.25	23.25	30	PASS
Band66	1.4M	QPSK	L	1RB5	20.32	23.32	30	PASS
Band66	1.4M	QPSK	L	6RB0	18.63	21.63	30	PASS
Band66	1.4M	QPSK	M	1RB0	20.36	23.36	30	PASS
Band66	1.4M	QPSK	M	1RB5	20.41	23.41	30	PASS
Band66	1.4M	QPSK	M	6RB0	18.41	21.41	30	PASS
Band66	1.4M	QPSK	H	1RB0	20.52	23.52	30	PASS
Band66	1.4M	QPSK	H	1RB5	20.14	23.14	30	PASS
Band66	1.4M	QPSK	H	6RB0	19.01	22.01	30	PASS
Band66	3M	QPSK	L	1RB0	20.09	23.09	30	PASS
Band66	3M	QPSK	L	1RB5	20.11	23.11	30	PASS
Band66	3M	QPSK	L	6RB0	18.01	21.01	30	PASS
Band66	3M	QPSK	M	1RB0	20.13	23.13	30	PASS
Band66	3M	QPSK	M	1RB5	20.00	23	30	PASS
Band66	3M	QPSK	M	6RB0	18.24	21.24	30	PASS
Band66	3M	QPSK	H	1RB0	20.32	23.32	30	PASS
Band66	3M	QPSK	H	1RB5	20.41	23.41	30	PASS
Band66	3M	QPSK	H	6RB0	18.11	21.11	30	PASS
Band66	5M	QPSK	L	1RB0	20.20	23.2	30	PASS
Band66	5M	QPSK	L	1RB5	20.13	23.13	30	PASS
Band66	5M	QPSK	L	6RB0	19.15	22.15	30	PASS
Band66	5M	QPSK	M	1RB0	20.32	23.32	30	PASS
Band66	5M	QPSK	M	1RB5	20.14	23.14	30	PASS
Band66	5M	QPSK	M	6RB0	19.32	22.32	30	PASS
Band66	5M	QPSK	H	1RB0	20.14	23.14	30	PASS
Band66	5M	QPSK	H	1RB5	20.25	23.25	30	PASS
Band66	5M	QPSK	H	6RB0	19.32	22.32	30	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band66	5MHz	QPSK	131997	6RB#0	11.06	13	PASS
Band66	5MHz	QPSK	132322	6RB#0	8.92	13	PASS
Band66	5MHz	QPSK	132647	6RB#0	9.00	13	PASS



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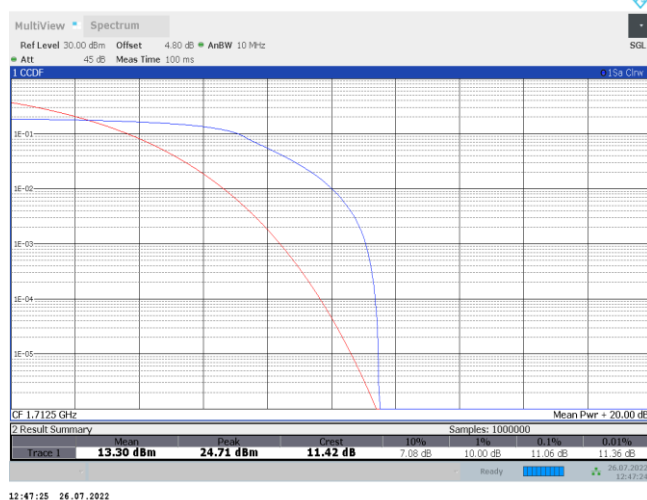
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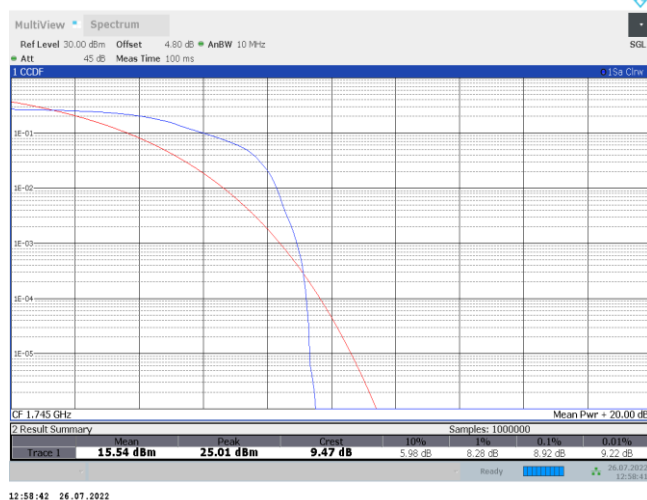
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Test Graphs

Band66-5MHz-QPSK-131997-6RB#0



Band66-5MHz-QPSK-132322-6RB#0



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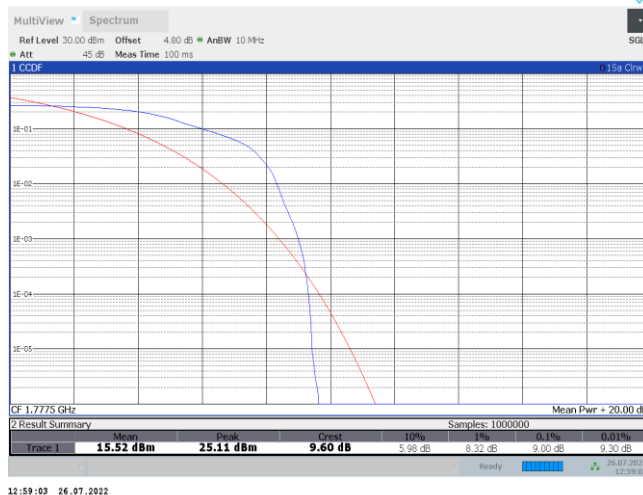
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Band66-5MHz-QPSK-132647-6RB#0



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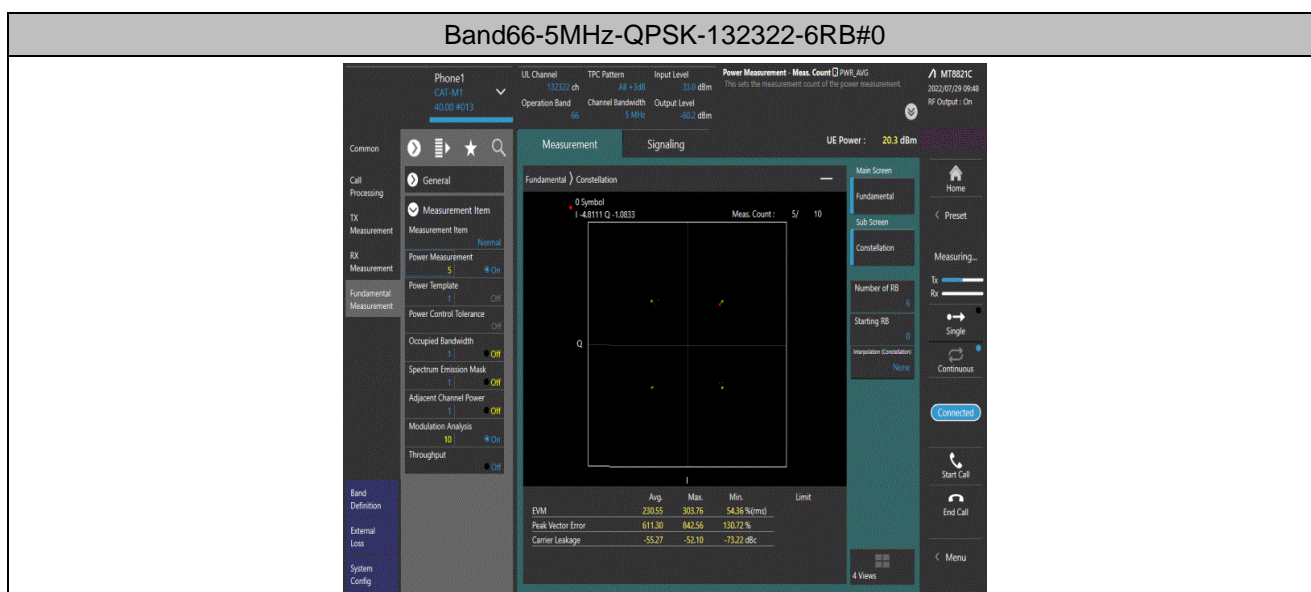
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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band66	5MHz	QPSK	132322	6RB#0	PASS	PASS

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
Band66	1.4MHz	QPSK	131979	6RB#0	1.097	1.22	PASS
Band66	1.4MHz	QPSK	132322	6RB#0	1.086	1.26	PASS
Band66	1.4MHz	QPSK	132665	6RB#0	1.084	1.25	PASS
Band66	3MHz	QPSK	131987	6RB#0	1.092	1.24	PASS
Band66	3MHz	QPSK	132322	6RB#0	1.106	1.29	PASS
Band66	3MHz	QPSK	132657	6RB#0	1.111	1.31	PASS
Band66	5MHz	QPSK	131997	6RB#0	1.103	1.28	PASS
Band66	5MHz	QPSK	132322	6RB#0	1.126	1.41	PASS
Band66	5MHz	QPSK	132647	6RB#0	1.131	1.41	PASS



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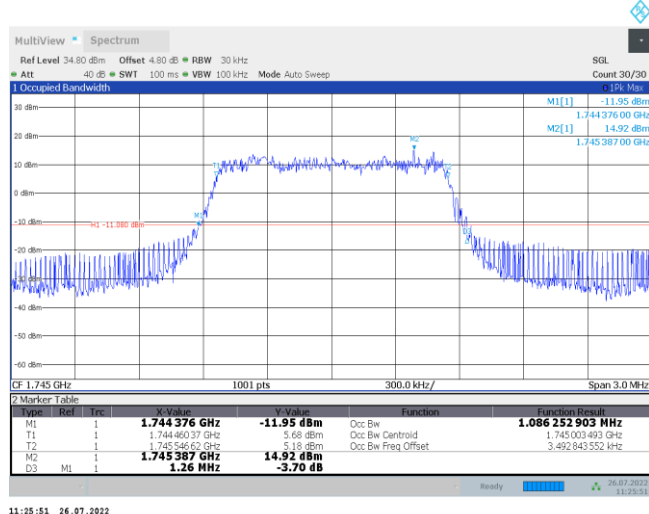
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Test Graphs

Band66-1.4MHz-QPSK-131979-6RB#0



Band66-1.4MHz-QPSK-132322-6RB#0



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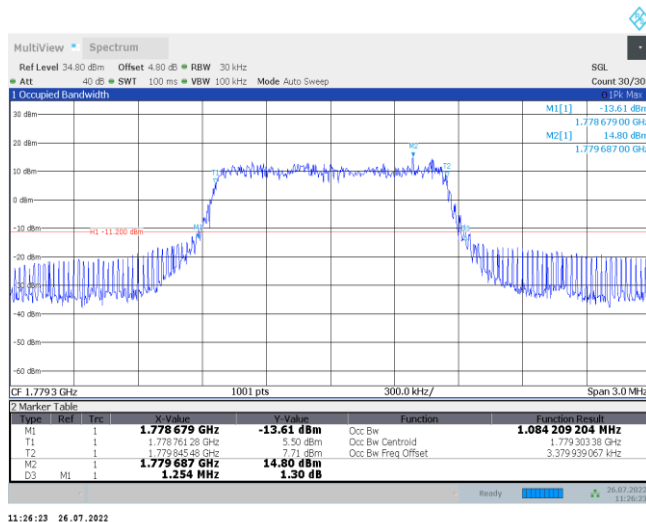
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Band66-3MHz-QPSK-131987-6RB#0



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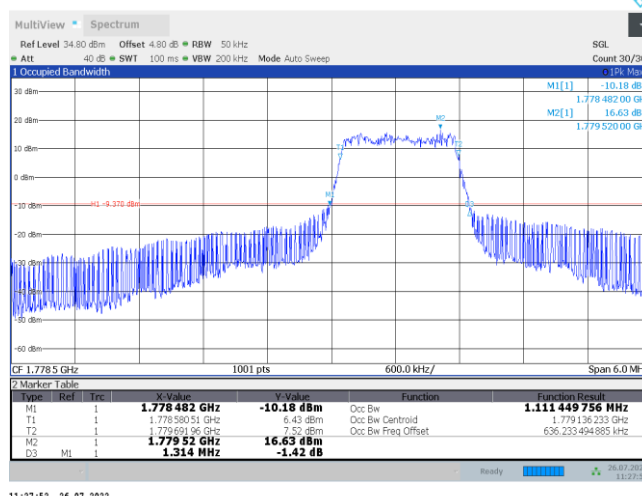
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Band66-3MHz-QPSK-132657-6RB#0



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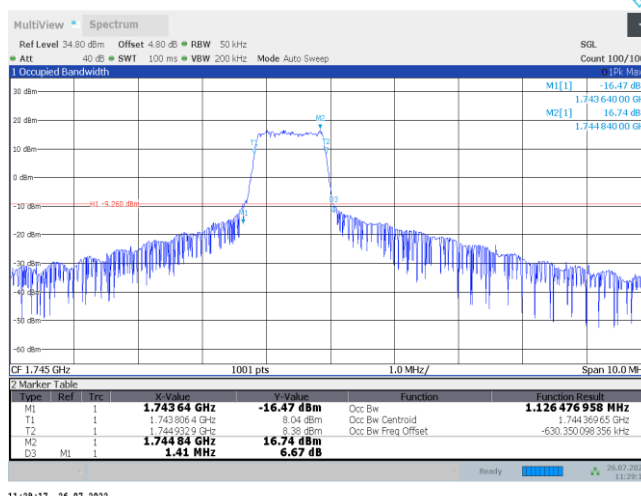
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Band66-5MHz-QPSK-132322-6RB#0



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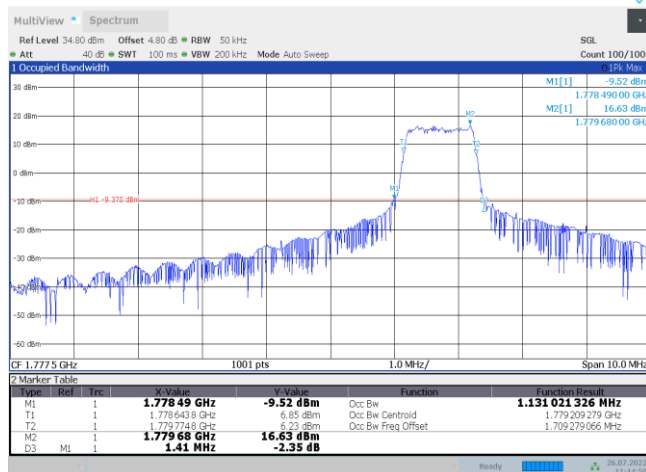
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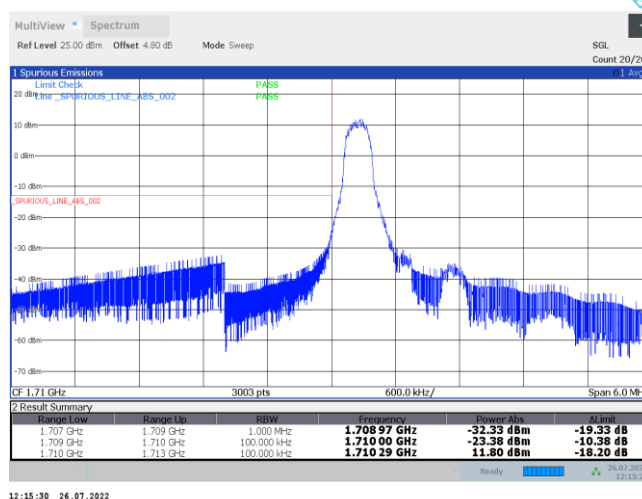
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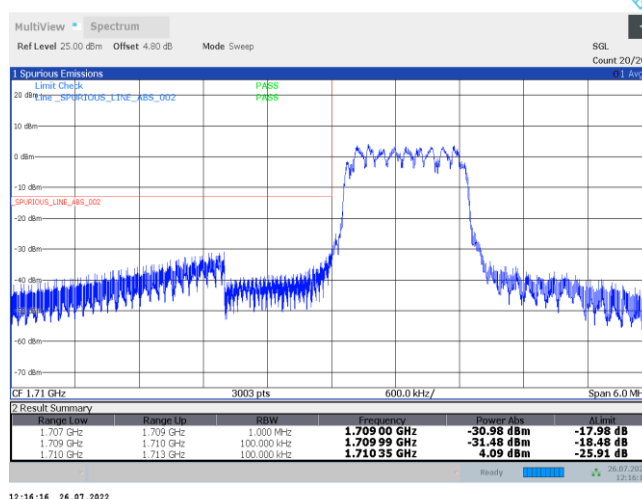
Band Edge

Test Graphs

Band66-1.4MHz-QPSK-131979-1RB#0



Band66-1.4MHz-QPSK-131979-6RB#0



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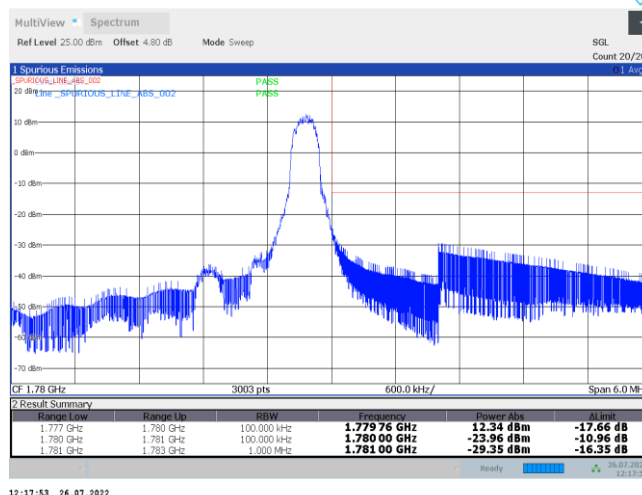
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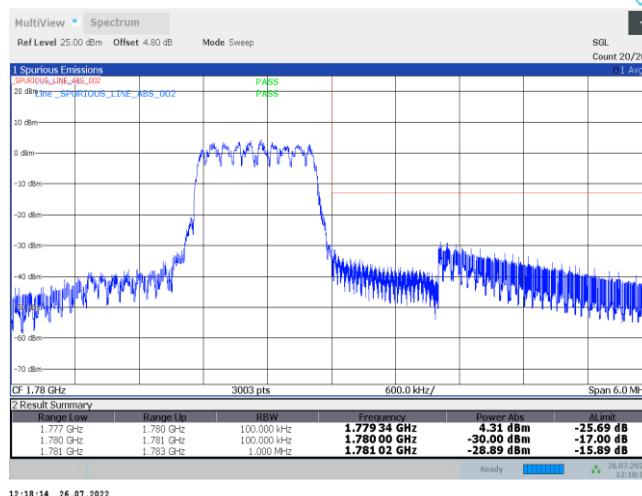
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Band66-1.4MHz-QPSK-132665-1RB#5



Band66-1.4MHz-QPSK-132665-6RB#0



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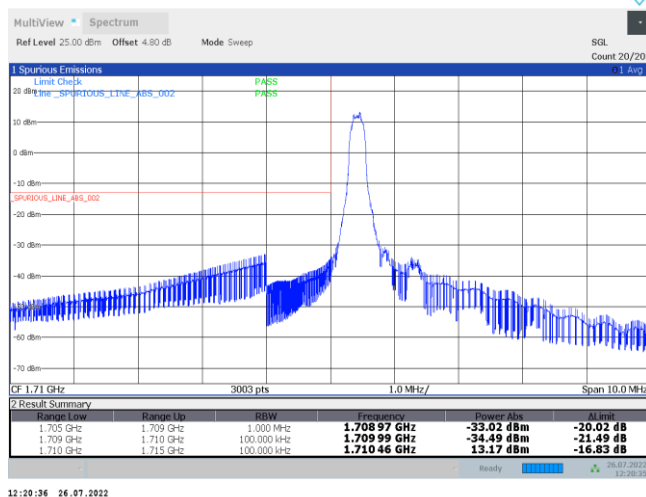
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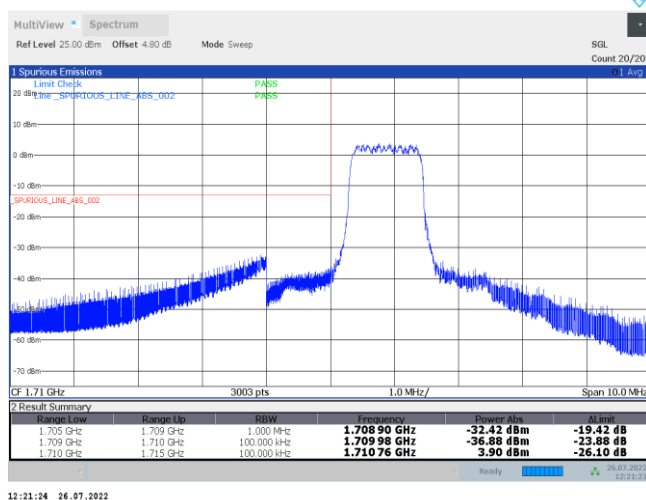
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Band66-3MHz-QPSK-131987-1RB#0



Band66-3MHz-QPSK-131987-6RB#0



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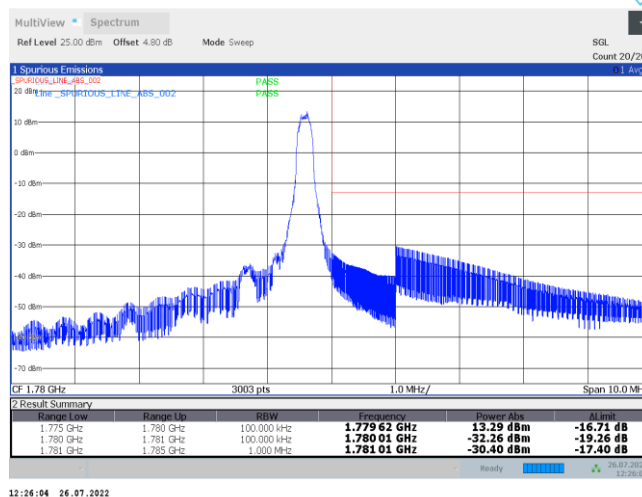
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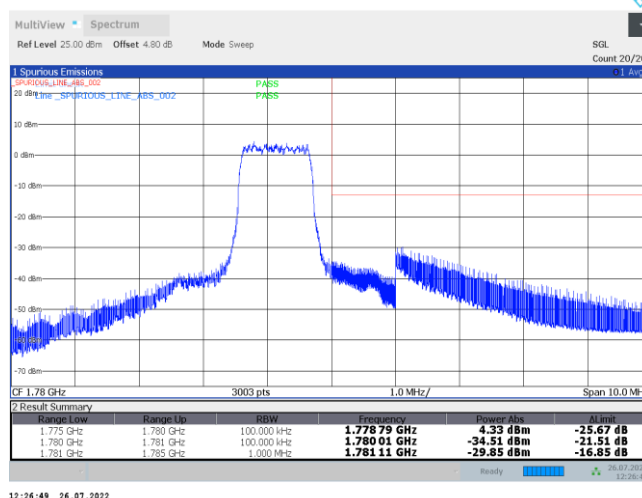
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Band66-3MHz-QPSK-132657-1RB#14



Band66-3MHz-QPSK-132657-6RB#0



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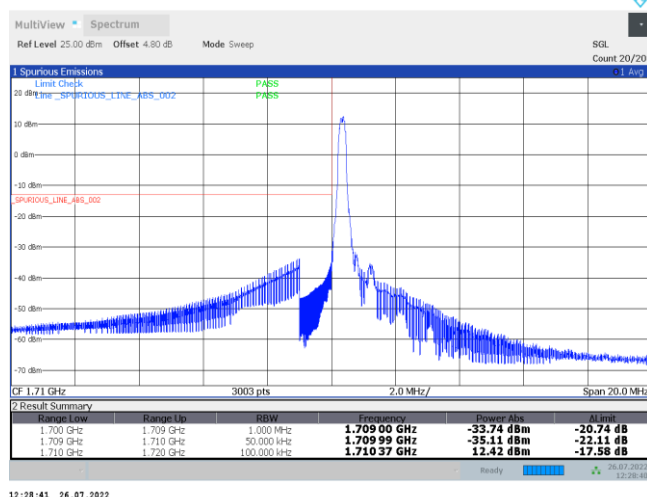
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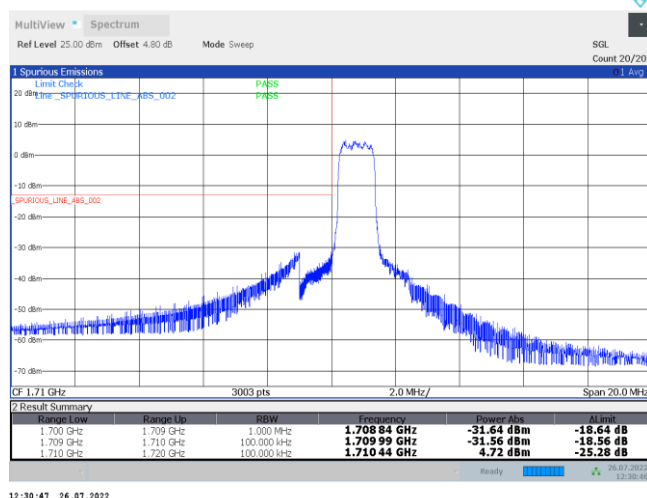
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Band66-5MHz-QPSK-131997-1RB#0



Band66-5MHz-QPSK-131997-6RB#0



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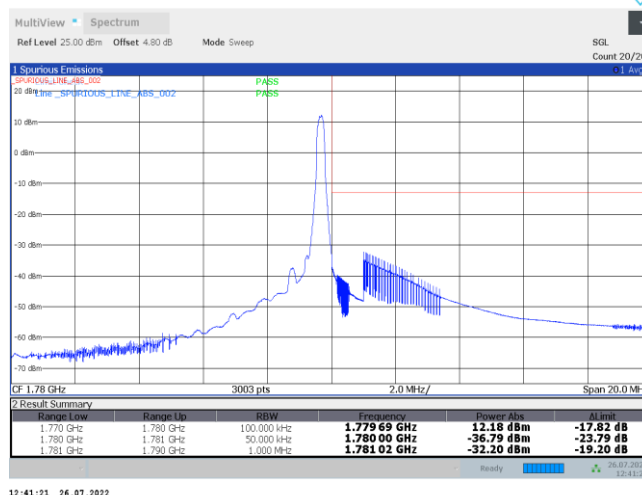
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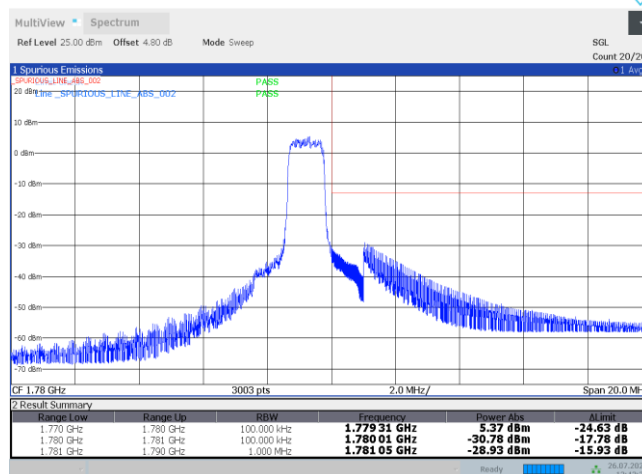
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Band66-5MHz-QPSK-132647-1RB#24



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Band66-5MHz-QPSK-132647-6RB#0



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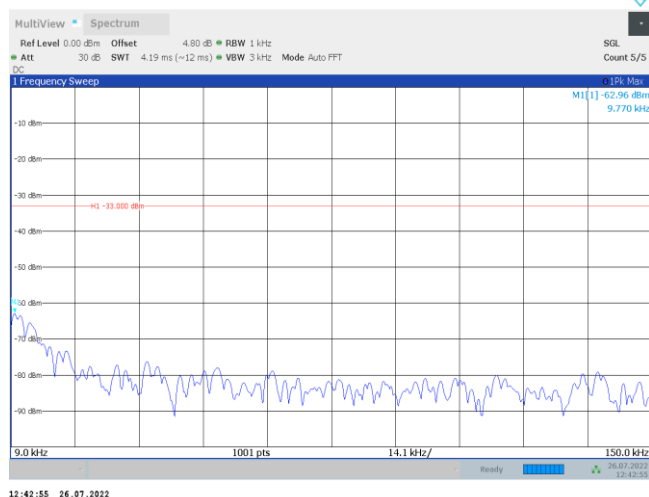
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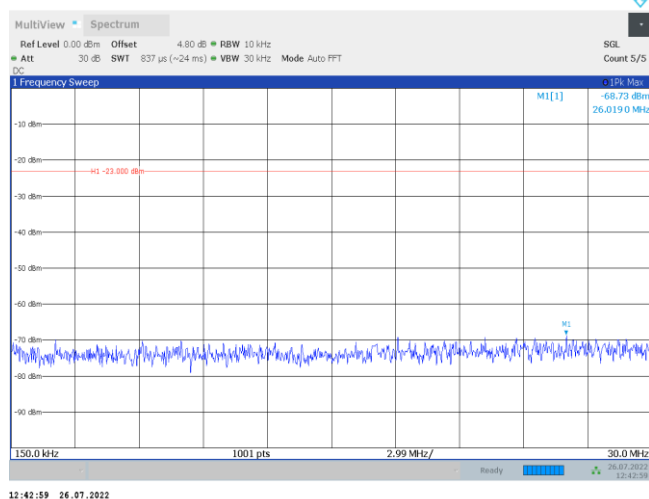
Conducted Spurious Emission

Test Graphs

Band66-5MHz-QPSK-131997-1RB#0-Range1:0.009~0.15MHz



Band66-5MHz-QPSK-131997-1RB#0-Range2:0.15~30MHz



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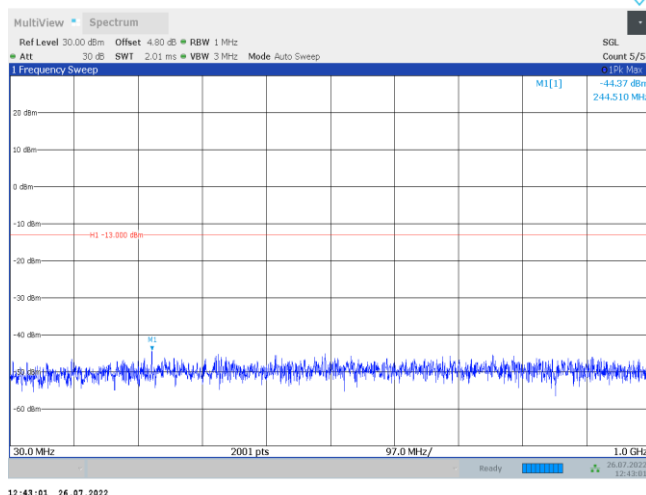
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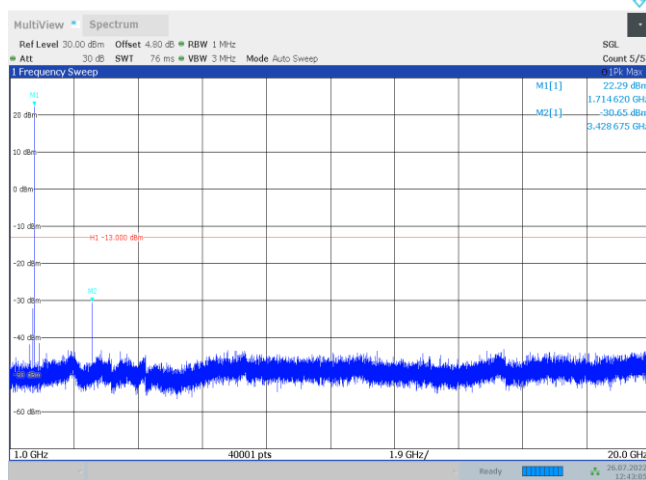
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Band66-5MHz-QPSK-131997-1RB#0-Range3:30~1000MHz



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Band66-5MHz-QPSK-131997-1RB#0-Range4:1000~20000MHz



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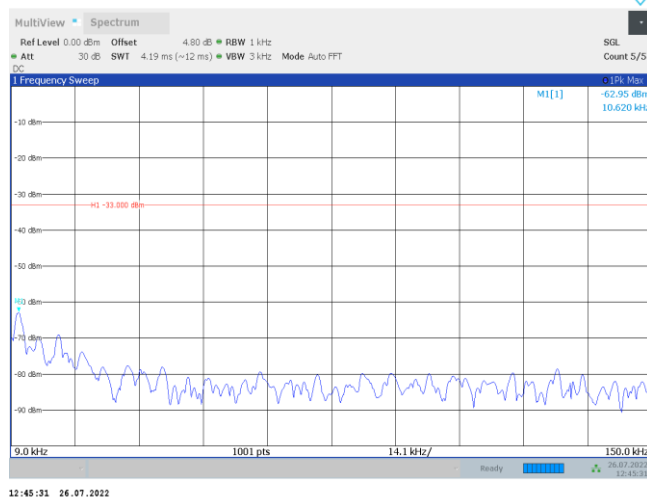
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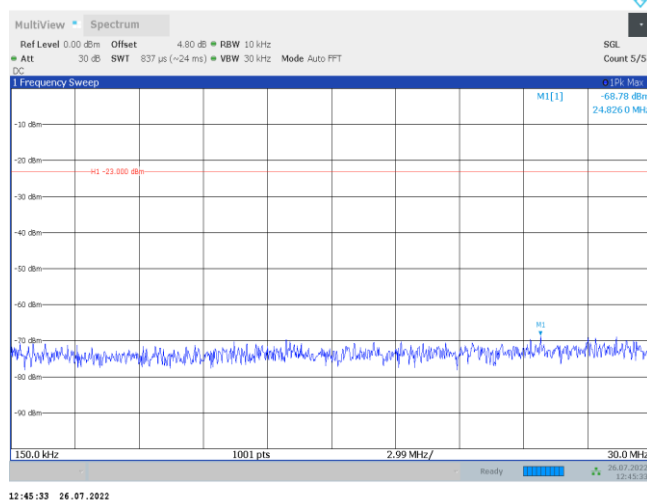
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Band66-5MHz-QPSK-132322-1RB#0-Range1:0.009~0.15MHz



Band66-5MHz-QPSK-132322-1RB#0-Range2:0.15~30MHz



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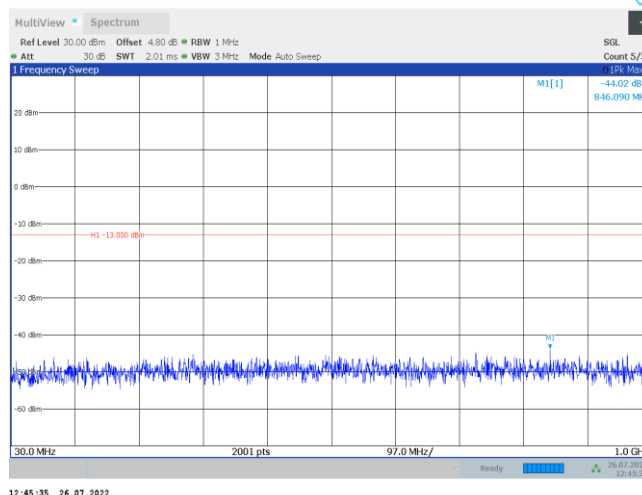
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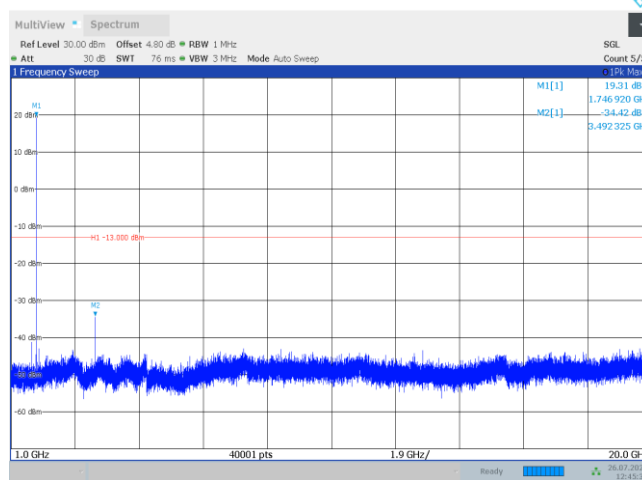
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Band66-5MHz-QPSK-132322-1RB#0-Range3:30~1000MHz



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Band66-5MHz-QPSK-132322-1RB#0-Range4:1000~20000MHz



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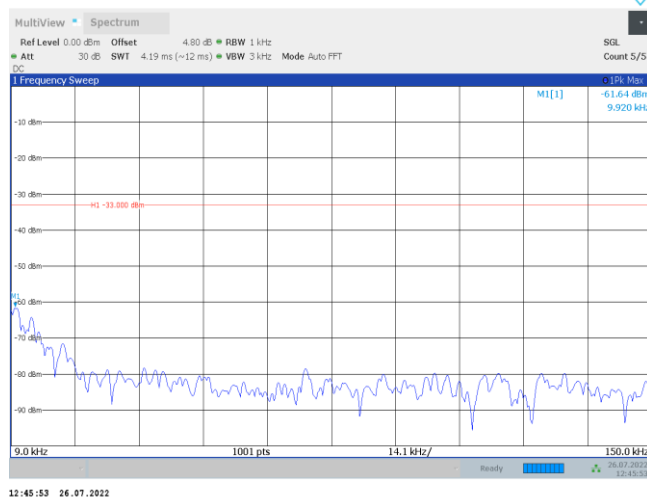
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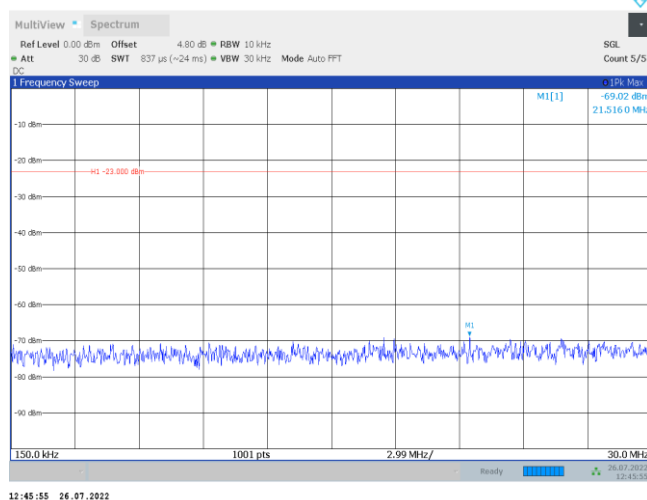
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Band66-5MHz-QPSK-132647-1RB#0-Range1:0.009~0.15MHz



Band66-5MHz-QPSK-132647-1RB#0-Range2:0.15~30MHz



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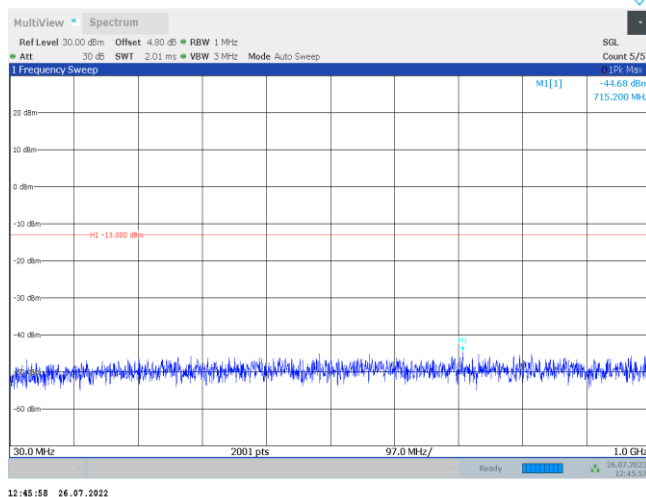
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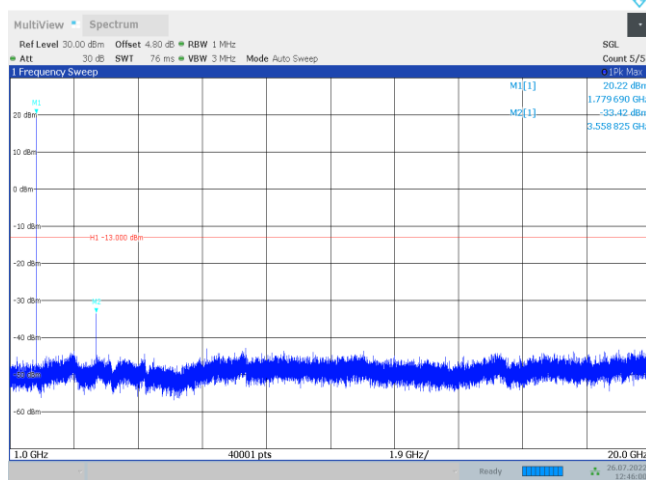
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Band66-5MHz-QPSK-132647-1RB#0-Range3:30~1000MHz



12:45:58 26.07.2022

Band66-5MHz-QPSK-132647-1RB#0-Range4:1000~20000MHz



12:46:00 26.07.2022



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Field Strength of Spurious Radiation

Test Band = CAT M1 Band 66_ 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	3404.1800	49.13	-46.28	29.43	-62.98	-13.00	49.98	241	240	Horizontal
2	5106.2700	49.49	-45.36	32.94	-58.20	-13.00	45.20	168	315	Horizontal
3	6808.3600	47.46	-44.16	35.85	-56.11	-13.00	43.11	227	43	Horizontal
4	8510.4500	46.53	-41.59	37.56	-52.76	-13.00	39.76	259	240	Horizontal
5	10212.5400	43.32	-39.45	38.81	-52.57	-13.00	39.57	253	7	Horizontal
6	11914.6300	39.26	-37.18	38.88	-54.30	-13.00	41.30	169	7	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	3404.1800	49.77	-46.28	29.43	-62.34	-13.00	49.34	197	270	Vertical
2	5106.2700	48.22	-45.36	32.94	-59.47	-13.00	46.47	158	44	Vertical
3	6808.3600	48.79	-44.16	35.85	-54.78	-13.00	41.78	214	8	Vertical
4	8510.4500	46.18	-41.59	37.56	-53.11	-13.00	40.11	269	121	Vertical
5	10212.5400	42.59	-39.45	38.81	-53.30	-13.00	40.30	184	59	Vertical
6	11914.6300	41.00	-37.18	38.88	-52.56	-13.00	39.56	179	135	Vertical



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Test Band = CAT M1 Band 66_ 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	3454.1800	49.30	-46.27	29.48	-62.75	-13.00	49.75	169	316	Horizontal
2	5181.2700	48.34	-45.30	32.98	-59.24	-13.00	46.24	254	2	Horizontal
3	6908.3600	47.01	-44.05	35.97	-56.33	-13.00	43.33	172	357	Horizontal
4	8635.4500	45.36	-41.46	37.81	-53.55	-13.00	40.55	218	211	Horizontal
5	10362.5400	41.85	-39.04	38.85	-53.60	-13.00	40.60	229	104	Horizontal
6	12089.6300	39.30	-37.37	39.04	-54.29	-13.00	41.29	236	164	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	3454.1800	50.16	-46.27	29.48	-61.89	-13.00	48.89	271	1	Vertical
2	5181.2700	48.86	-45.30	32.98	-58.72	-13.00	45.72	251	256	Vertical
3	6908.3600	47.76	-44.05	35.97	-55.58	-13.00	42.58	286	242	Vertical
4	8635.4500	45.29	-41.46	37.81	-53.62	-13.00	40.62	197	285	Vertical
5	10362.5400	43.81	-39.04	38.85	-51.64	-13.00	38.64	143	135	Vertical
6	12089.6300	40.49	-37.37	39.04	-53.10	-13.00	40.10	151	152	Vertical



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Test Band = CAT M1 Band 66_ 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	3504.1800	51.34	-46.25	29.52	-60.65	-13.00	47.65	167	0	Horizontal
2	5256.2700	49.43	-45.17	32.94	-58.07	-13.00	45.07	214	76	Horizontal
3	7008.3600	48.17	-43.61	36.10	-54.60	-13.00	41.60	238	61	Horizontal
4	8760.4500	45.41	-41.42	38.02	-53.26	-13.00	40.26	252	107	Horizontal
5	10512.5400	41.12	-38.76	38.97	-53.93	-13.00	40.93	219	61	Horizontal
6	12262.6300	41.04	-37.44	39.11	-52.55	-13.00	39.55	237	107	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	3504.1800	50.89	-46.25	29.52	-61.10	-13.00	48.10	141	8	Vertical
2	5256.2700	48.88	-45.17	32.94	-58.62	-13.00	45.62	158	31	Vertical
3	7008.3600	47.80	-43.61	36.10	-54.97	-13.00	41.97	219	257	Vertical
4	8760.4500	47.22	-41.42	38.02	-51.45	-13.00	38.45	263	0	Vertical
5	10512.5400	41.68	-38.76	38.97	-53.37	-13.00	40.37	273	330	Vertical
6	12262.6300	40.27	-37.44	39.11	-53.32	-13.00	40.32	257	346	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:

$$\text{Level} = \text{Reading Level} + \text{AF(dB/m)} + \text{Factor(dB)}$$

$$\text{AF} = \text{Antenna Factor(dB/m)}$$

$$\text{Factor} = \text{Cable Factor(dB)} - \text{Preamplifier gain (dB)}$$

$$\text{Margin} = \text{Limit(dBm)} - \text{Level(dBm)}$$

$$\text{dBm} = \text{dBμV} - 95.26$$


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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	5MHz	QPSK	132322	6RB#0	VL	NT	3.40	0.001948	PASS
Band66	5MHz	QPSK	132322	6RB#0	VN	NT	-7.50	-0.004298	PASS
Band66	5MHz	QPSK	132322	6RB#0	VH	NT	4.50	0.002579	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band66	5MHz	QPSK	132322	6RB#0	NV	-30	-0.30	-0.000172	PASS
Band66	5MHz	QPSK	132322	6RB#0	NV	-20	1.50	0.000860	PASS
Band66	5MHz	QPSK	132322	6RB#0	NV	-10	-4.40	-0.002521	PASS
Band66	5MHz	QPSK	132322	6RB#0	NV	0	-6.30	-0.003610	PASS
Band66	5MHz	QPSK	132322	6RB#0	NV	10	4.00	0.002292	PASS
Band66	5MHz	QPSK	132322	6RB#0	NV	20	-8.50	-0.004871	PASS
Band66	5MHz	QPSK	132322	6RB#0	NV	30	-5.60	-0.003209	PASS
Band66	5MHz	QPSK	132322	6RB#0	NV	40	-8.20	-0.004699	PASS
Band66	5MHz	QPSK	132322	6RB#0	NV	50	5.60	0.003209	PASS

---End of Attachment---



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