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Appendix B.8

LTE Cat-M1 Band25



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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
Band25	1.4M	QPSK	L	1RB0	20.32	23.32	33	PASS
Band25	1.4M	QPSK	L	1RB5	20.12	23.12	33	PASS
Band25	1.4M	QPSK	L	6RB0	18.03	21.03	33	PASS
Band25	1.4M	QPSK	M	1RB0	20.41	23.41	33	PASS
Band25	1.4M	QPSK	M	1RB5	20.12	23.12	33	PASS
Band25	1.4M	QPSK	M	6RB0	18.42	21.42	33	PASS
Band25	1.4M	QPSK	H	1RB0	20.44	23.44	33	PASS
Band25	1.4M	QPSK	H	1RB5	20.25	23.25	33	PASS
Band25	1.4M	QPSK	H	6RB0	18.32	21.32	33	PASS
Band25	3M	QPSK	L	1RB0	20.21	23.21	33	PASS
Band25	3M	QPSK	L	1RB5	20.34	23.34	33	PASS
Band25	3M	QPSK	L	6RB0	18.32	21.32	33	PASS
Band25	3M	QPSK	M	1RB0	20.41	23.41	33	PASS
Band25	3M	QPSK	M	1RB5	20.32	23.32	33	PASS
Band25	3M	QPSK	M	6RB0	18.42	21.42	33	PASS
Band25	3M	QPSK	H	1RB0	20.11	23.11	33	PASS
Band25	3M	QPSK	H	1RB5	20.36	23.36	33	PASS
Band25	3M	QPSK	H	6RB0	20.33	23.33	33	PASS
Band25	5M	QPSK	L	1RB0	20.26	23.26	33	PASS
Band25	5M	QPSK	L	1RB5	20.32	23.32	33	PASS
Band25	5M	QPSK	L	6RB0	19.15	22.15	33	PASS
Band25	5M	QPSK	M	1RB0	20.41	23.41	33	PASS
Band25	5M	QPSK	M	1RB5	20.36	23.36	33	PASS
Band25	5M	QPSK	M	6RB0	19.33	22.33	33	PASS
Band25	5M	QPSK	H	1RB0	20.36	23.36	33	PASS
Band25	5M	QPSK	H	1RB5	20.12	23.12	33	PASS
Band25	5M	QPSK	H	6RB0	19.26	22.26	33	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band25	5MHz	QPSK	26065	6RB#0	11.16	13	PASS
Band25	5MHz	QPSK	26365	6RB#0	11.30	13	PASS
Band25	5MHz	QPSK	26665	6RB#0	11.40	13	PASS



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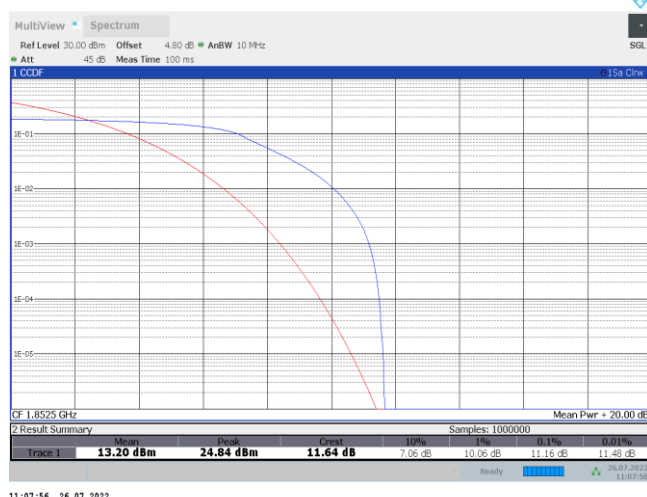
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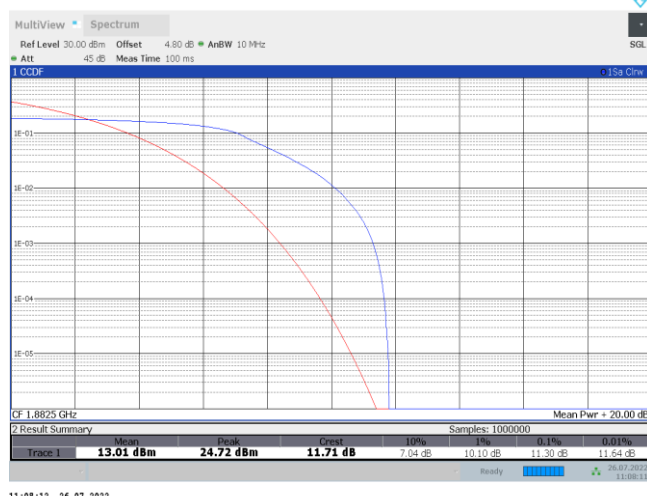
Test Graphs

Band25-5MHz-QPSK-26065-6RB#0



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Band25-5MHz-QPSK-26365-6RB#0



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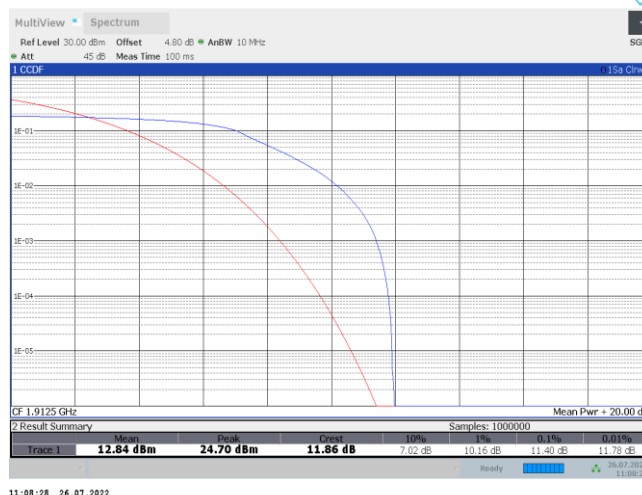
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Band25-5MHz-QPSK-26665-6RB#0



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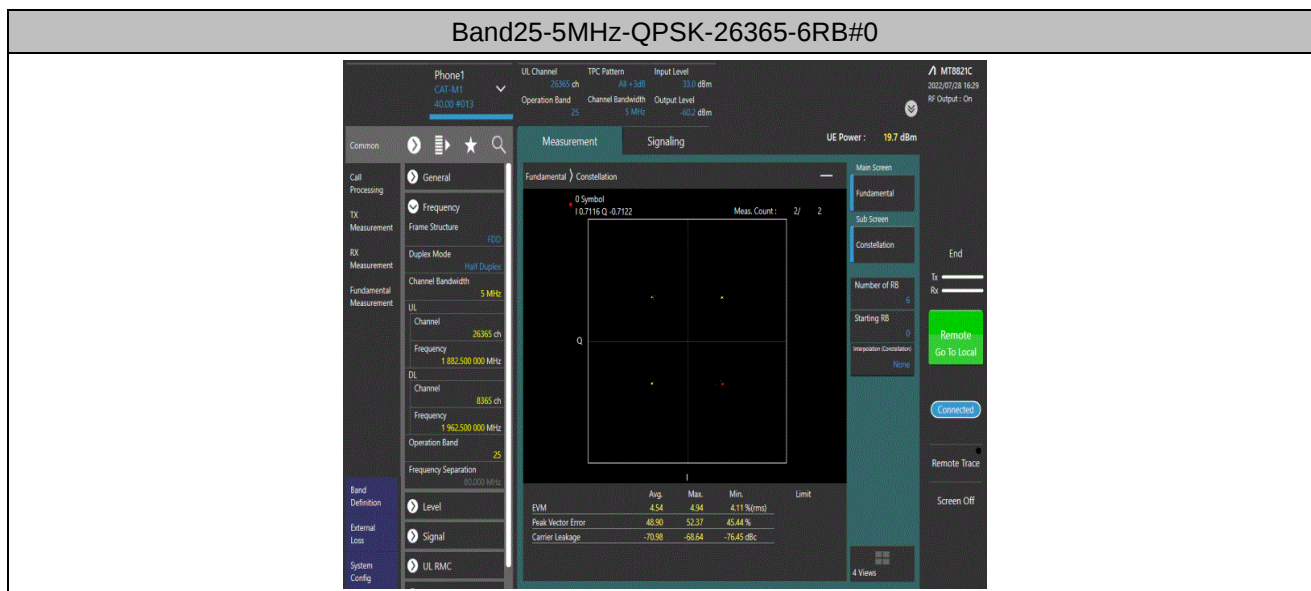
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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band25	5MHz	QPSK	26365	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
Band25	1.4MHz	QPSK	26047	6RB#0	1.060	1.14	PASS
Band25	1.4MHz	QPSK	26365	6RB#0	1.092	1.27	PASS
Band25	1.4MHz	QPSK	26683	6RB#0	1.096	1.29	PASS
Band25	3MHz	QPSK	26055	6RB#0	1.097	1.24	PASS
Band25	3MHz	QPSK	26365	6RB#0	1.105	1.31	PASS
Band25	3MHz	QPSK	26675	6RB#0	1.108	1.32	PASS
Band25	5MHz	QPSK	26065	6RB#0	1.093	1.27	PASS
Band25	5MHz	QPSK	26365	6RB#0	1.096	1.25	PASS
Band25	5MHz	QPSK	26665	6RB#0	1.126	1.42	PASS



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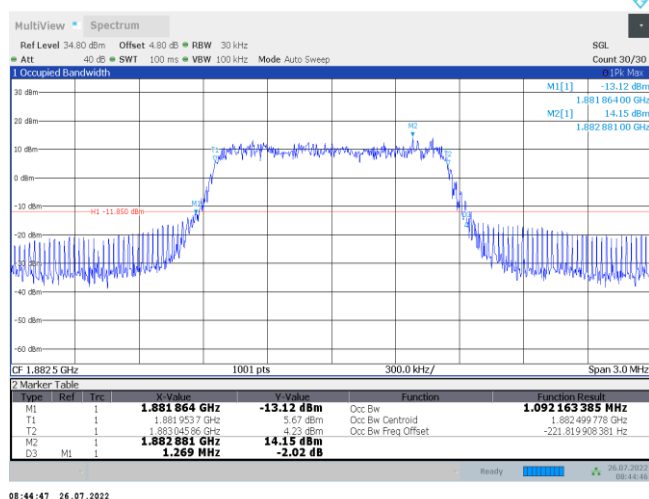
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Test Graphs

Band25-1.4MHz-QPSK-26047-6RB#0



Band25-1.4MHz-QPSK-26365-6RB#0



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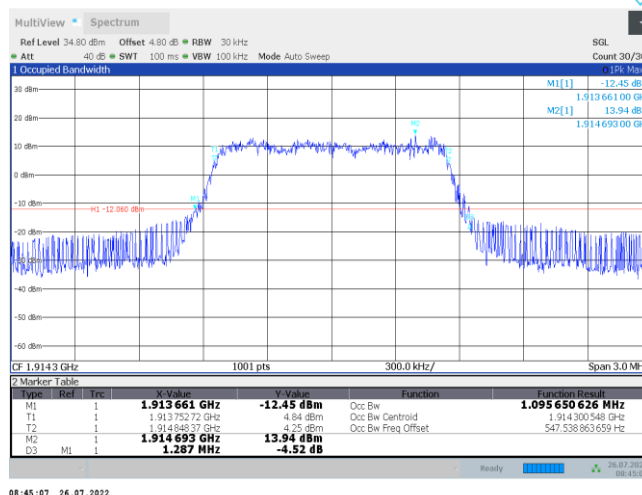
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Band25-1.4MHz-QPSK-26683-6RB#0



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Band25-3MHz-QPSK-26675-6RB#0



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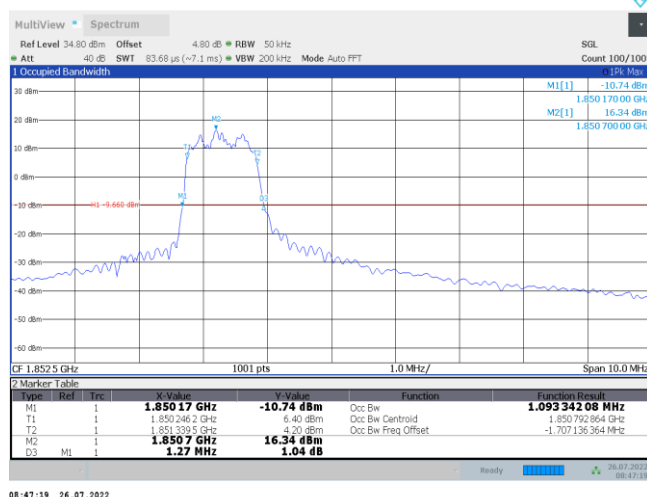
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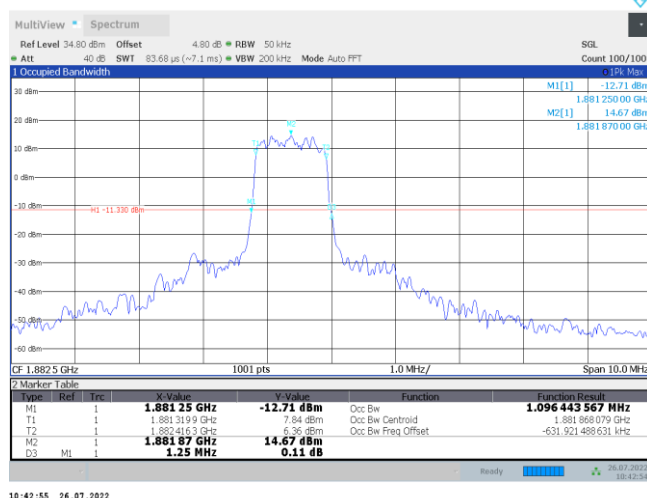
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Band25-5MHz-QPSK-26065-6RB#0



Band25-5MHz-QPSK-26365-6RB#0



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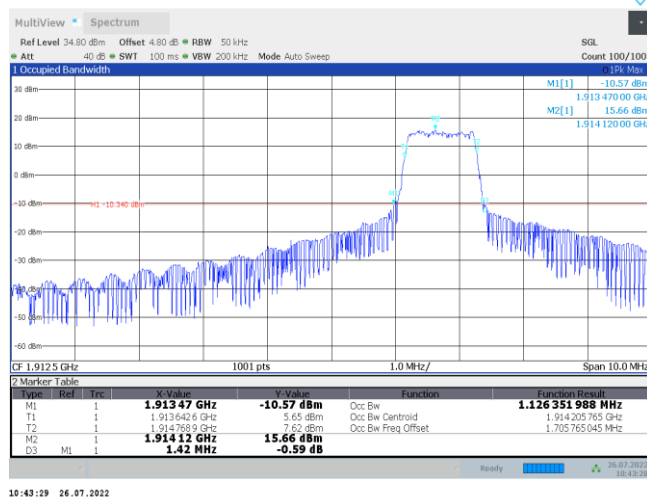
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Band25-5MHz-QPSK-26665-6RB#0



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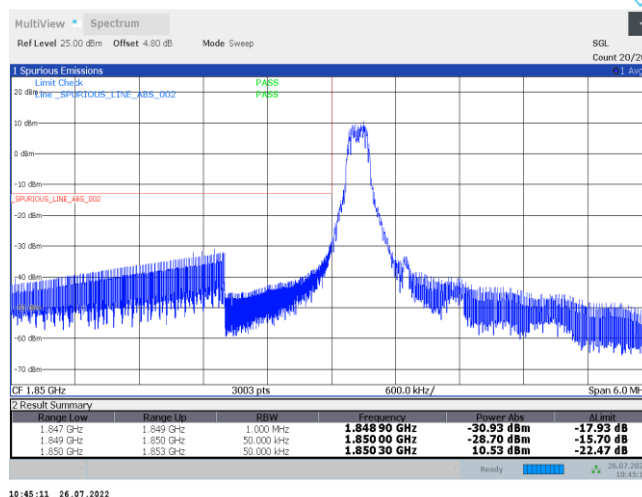
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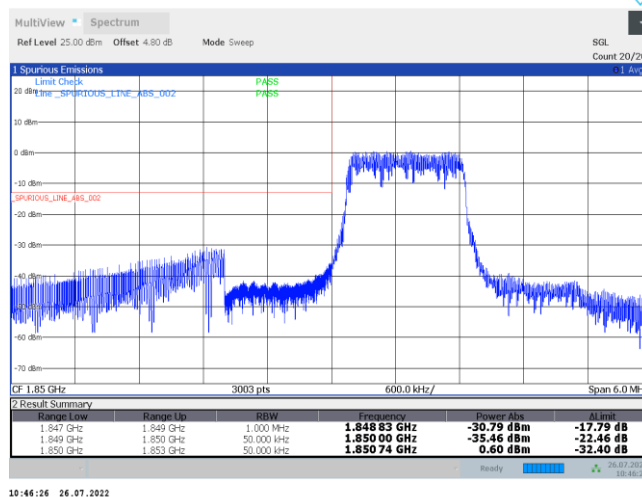
Band Edge

Test Graphs

Band25-1.4MHz-QPSK-26047-1RB#0



Band25-1.4MHz-QPSK-26047-6RB#0



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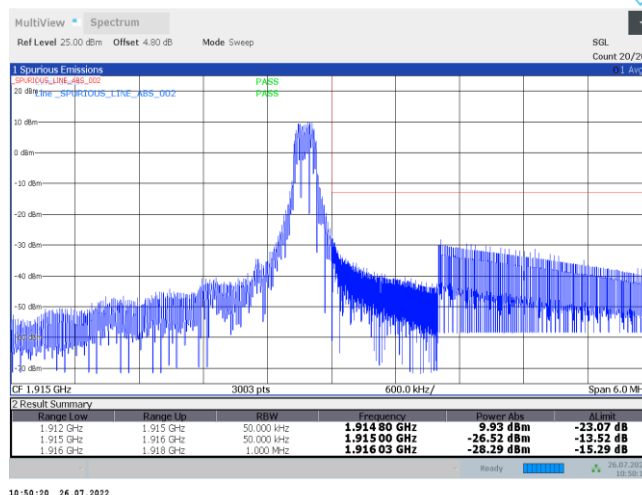
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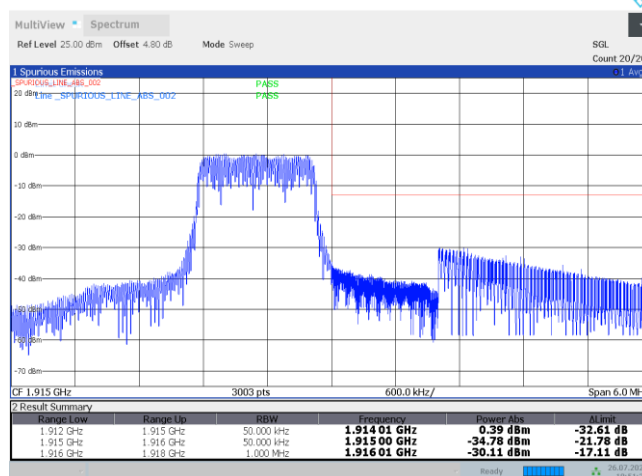
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Band25-1.4MHz-QPSK-26683-1RB#5



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Band25-1.4MHz-QPSK-26683-6RB#0



10:51:27 26.07.2022



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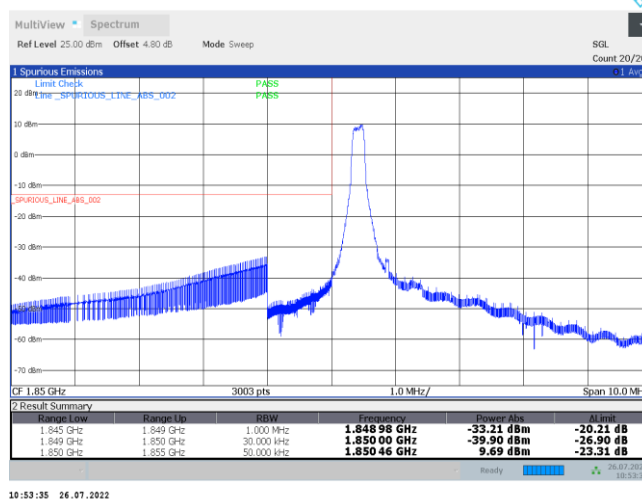
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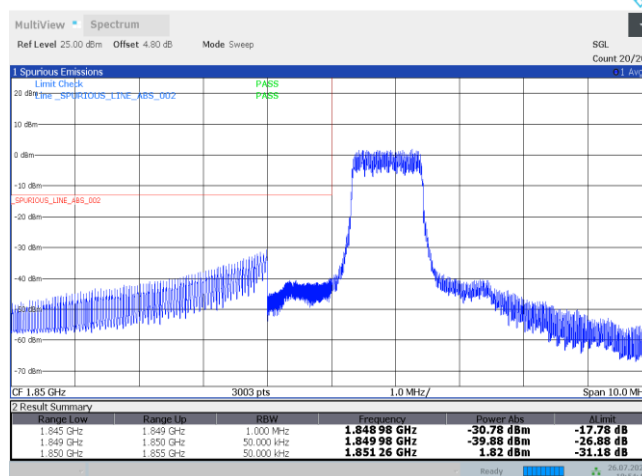
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Band25-3MHz-QPSK-26055-1RB#0



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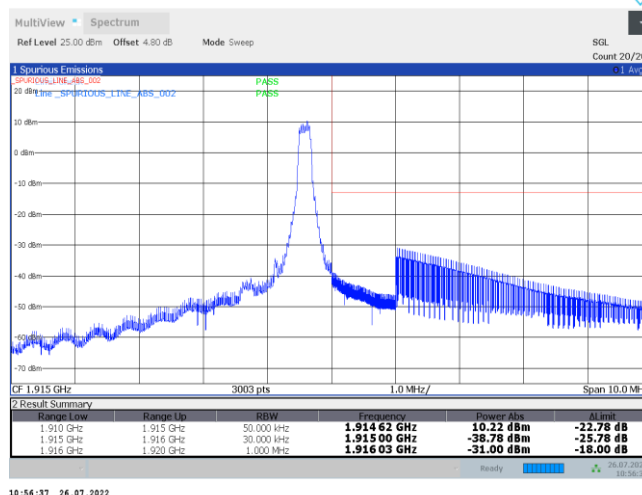
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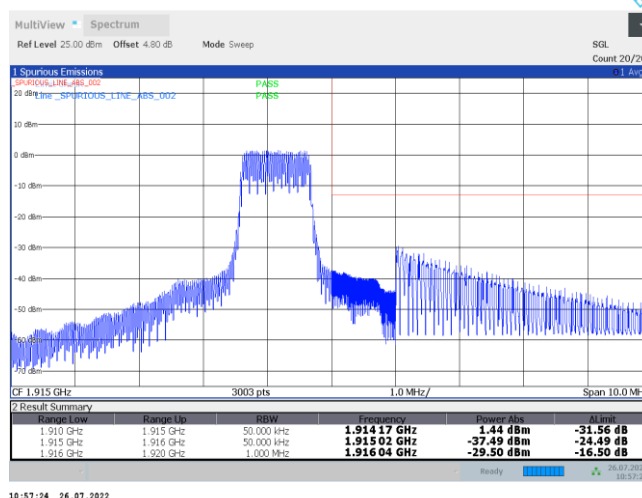
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Band25-3MHz-QPSK-26675-1RB#14



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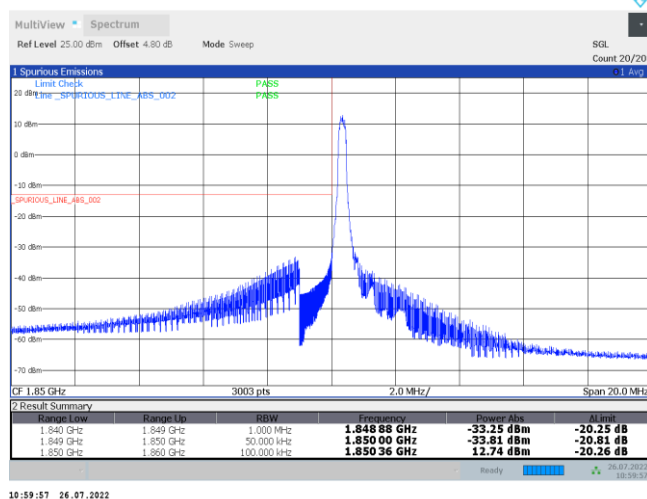
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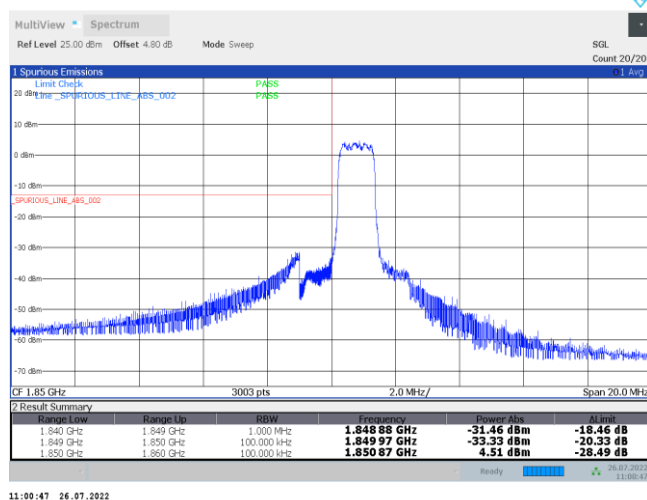
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Band25-5MHz-QPSK-26065-6RB#0



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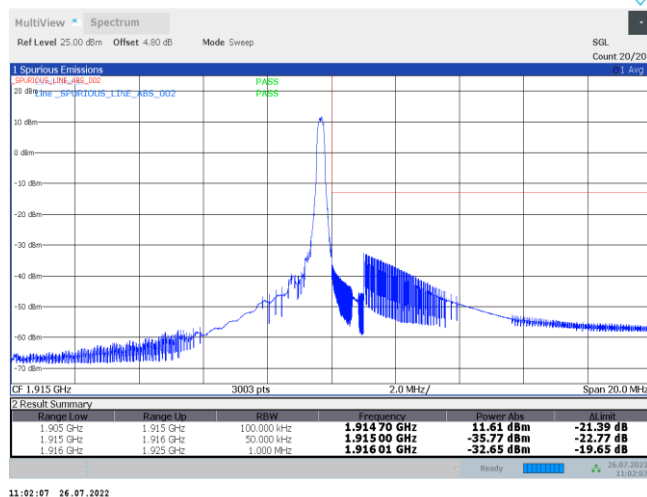
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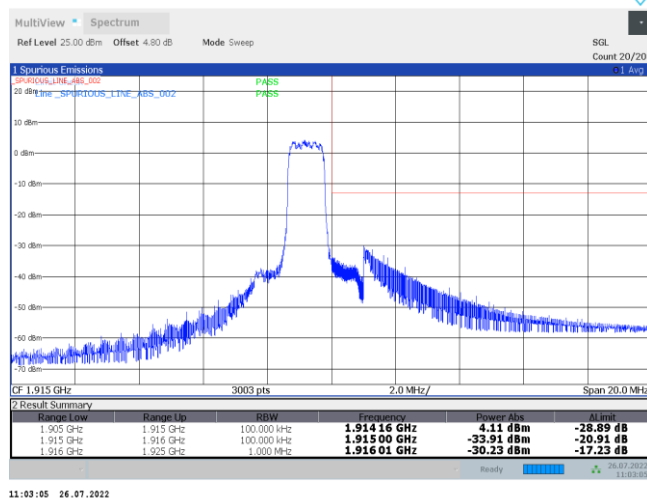
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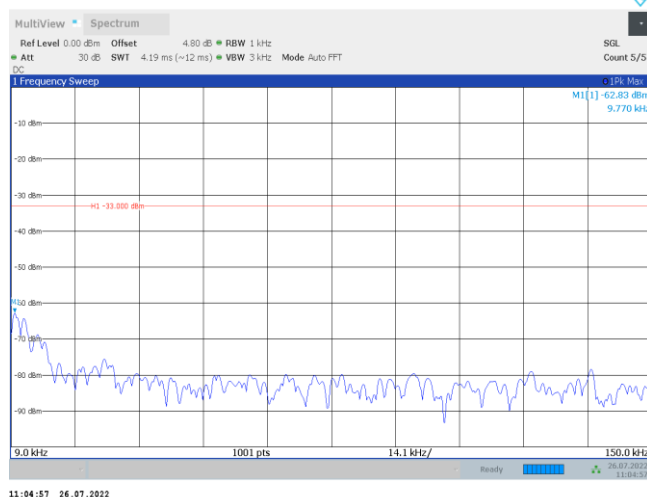
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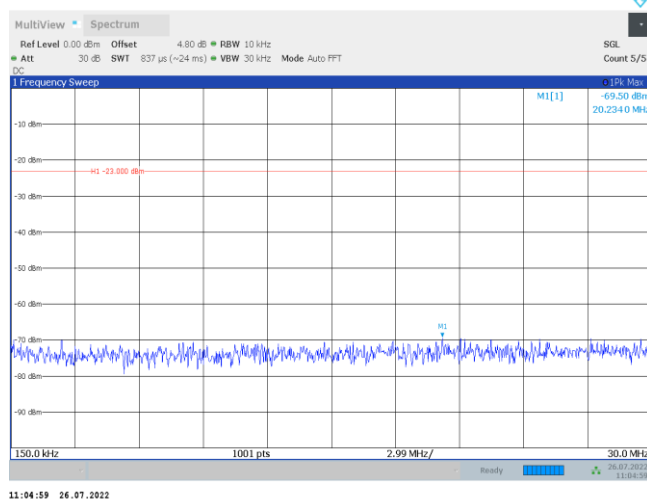
Conducted Spurious Emission

Test Graphs

Band25-5MHz-QPSK-26065-1RB#0-Range1:0.009~0.15MHz



Band25-5MHz-QPSK-26065-1RB#0-Range2:0.15~30MHz



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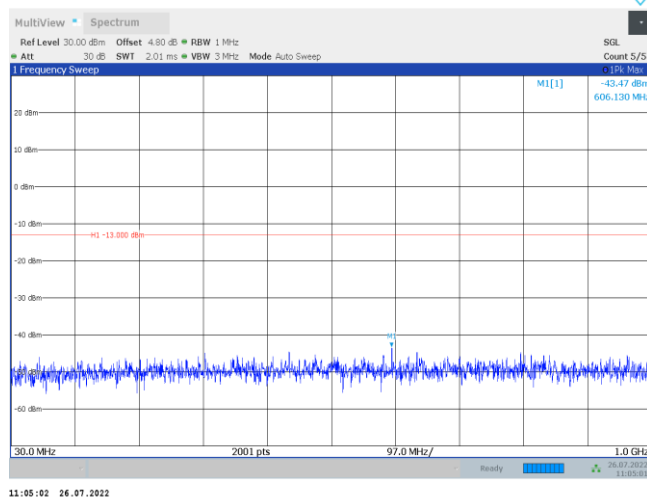
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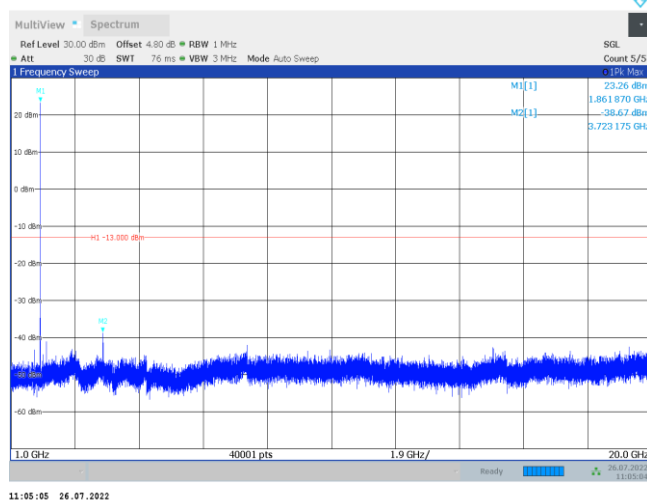
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Band25-5MHz-QPSK-26065-1RB#0-Range3:30~1000MHz



Band25-5MHz-QPSK-26065-1RB#0-Range4:1000~20000MHz



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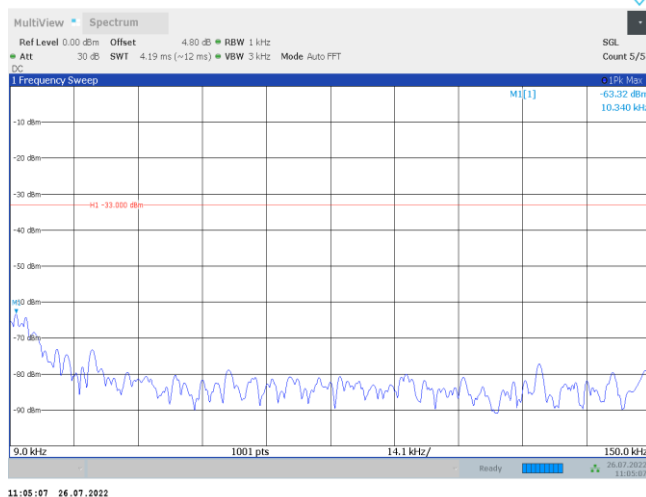
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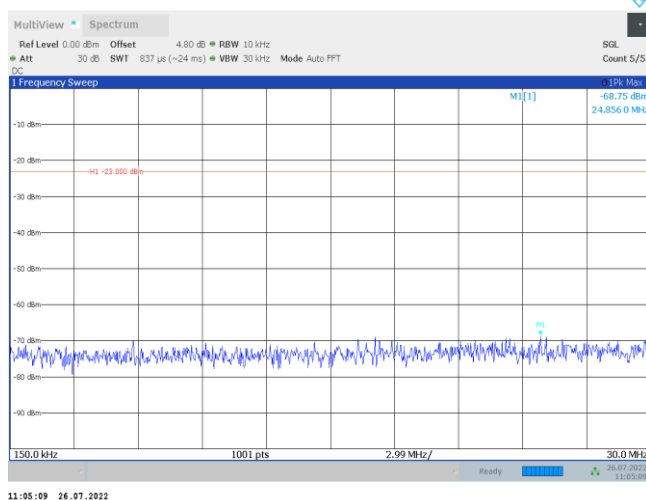
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Band25-5MHz-QPSK-26365-1RB#0-Range1:0.009~0.15MHz



Band25-5MHz-QPSK-26365-1RB#0-Range2:0.15~30MHz



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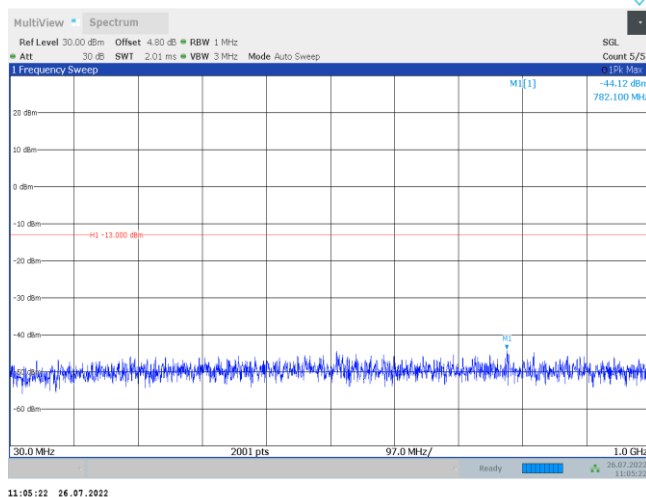
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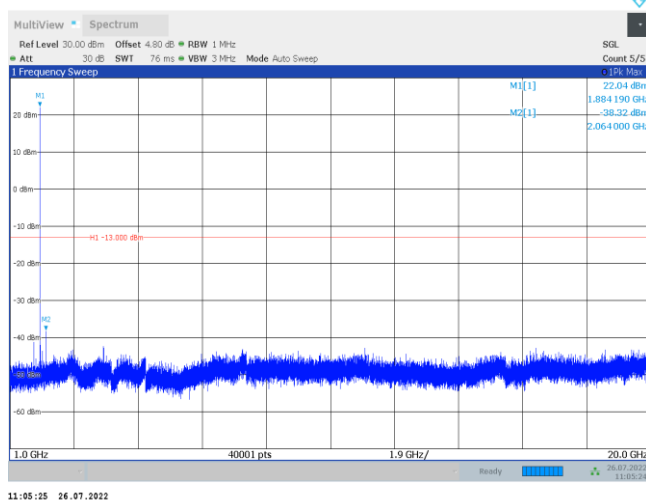
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Band25-5MHz-QPSK-26365-1RB#0-Range3:30~1000MHz



Band25-5MHz-QPSK-26365-1RB#0-Range4:1000~20000MHz



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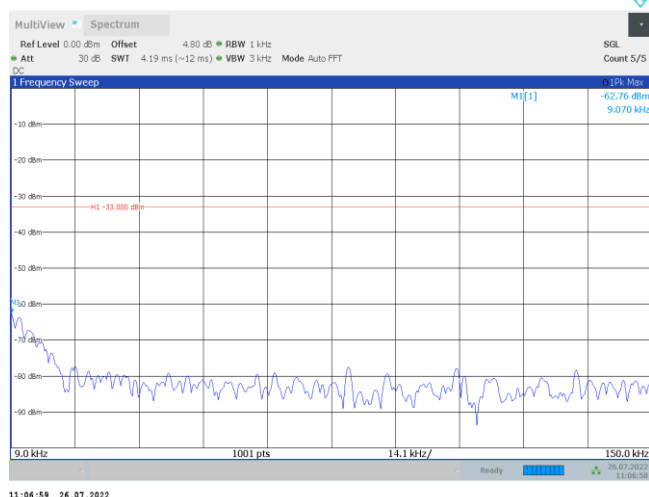
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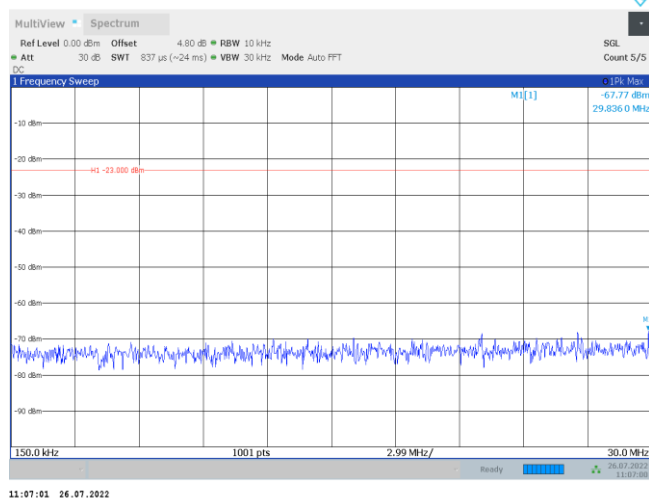
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Band25-5MHz-QPSK-26665-1RB#0-Range1:0.009~0.15MHz



Band25-5MHz-QPSK-26665-1RB#0-Range2:0.15~30MHz



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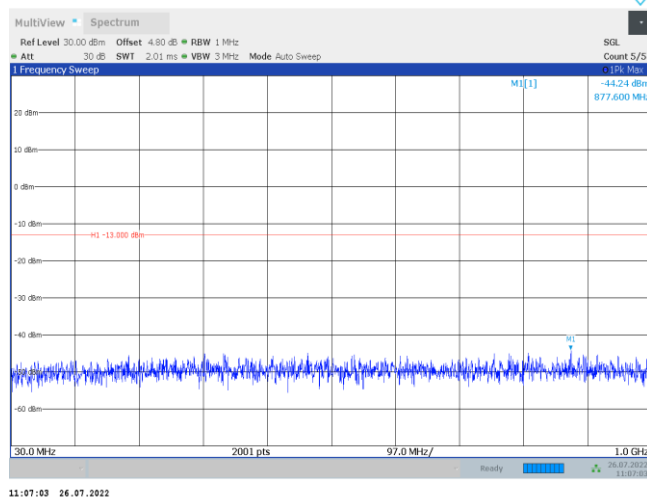
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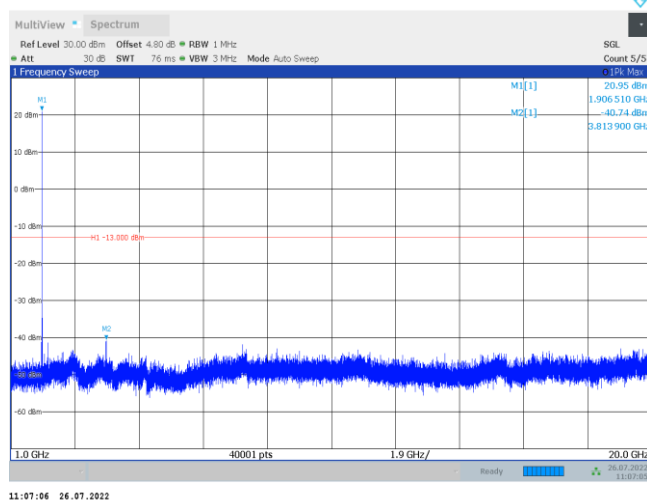
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Band25-5MHz-QPSK-26665-1RB#0-Range3:30~1000MHz



Band25-5MHz-QPSK-26665-1RB#0-Range4:1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = CAT M1 Band 25_ 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	3702.1800	82.21	-45.51	29.98	-28.58	-13.00	15.58	163	239	Horizontal
2	5553.2700	48.84	-45.15	32.97	-58.60	-13.00	45.60	215	164	Horizontal
3	7404.3600	48.69	-43.40	36.49	-53.48	-13.00	40.48	149	0	Horizontal
4	9255.4500	44.79	-40.23	38.38	-52.32	-13.00	39.32	221	119	Horizontal
5	11106.5400	40.32	-37.93	39.09	-53.78	-13.00	40.78	181	0	Horizontal
6	12957.6300	40.05	-37.24	39.79	-52.66	-13.00	39.66	217	209	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	3702.1800	61.23	-45.51	29.98	-49.56	-13.00	36.56	218	286	Vertical
2	5553.2700	49.53	-45.15	32.97	-57.91	-13.00	44.91	226	0	Vertical
3	7404.3600	48.26	-43.40	36.49	-53.91	-13.00	40.91	167	46	Vertical
4	9255.4500	44.26	-40.23	38.38	-52.85	-13.00	39.85	189	0	Vertical
5	11106.5400	41.51	-37.93	39.09	-52.59	-13.00	39.59	235	331	Vertical
6	12957.6300	39.89	-37.24	39.79	-52.82	-13.00	39.82	224	211	Vertical



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Test Band = CAT M1 Band 25_ 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	3742.1800	73.96	-45.68	30.12	-36.86	-13.00	23.86	157	256	Horizontal
2	5613.2700	48.31	-45.04	33.07	-58.92	-13.00	45.92	214	315	Horizontal
3	7484.3600	46.42	-43.18	36.45	-55.57	-13.00	42.57	236	344	Horizontal
4	9355.4500	43.69	-40.00	38.46	-53.12	-13.00	40.12	186	270	Horizontal
5	11226.5400	41.44	-37.40	39.11	-52.11	-13.00	39.11	191	330	Horizontal
6	13097.6300	39.45	-37.01	39.87	-52.94	-13.00	39.94	237	104	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	3742.1800	58.70	-45.68	30.12	-52.12	-13.00	39.12	268	76	Vertical
2	5613.2700	49.55	-45.04	33.07	-57.68	-13.00	44.68	271	213	Vertical
3	7484.3600	46.88	-43.18	36.45	-55.11	-13.00	42.11	229	0	Vertical
4	9355.4500	43.65	-40.00	38.46	-53.16	-13.00	40.16	254	17	Vertical
5	11226.5400	41.99	-37.40	39.11	-51.56	-13.00	38.56	186	357	Vertical
6	13097.6300	40.11	-37.01	39.87	-52.28	-13.00	39.28	179	273	Vertical



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Test Band = CAT M1 Band 25_ 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	3792.1800	69.10	-45.89	30.30	-41.75	-13.00	28.75	161	270	Horizontal
2	5688.2700	51.23	-44.87	33.34	-55.56	-13.00	42.56	213	254	Horizontal
3	7584.3600	48.44	-42.96	36.40	-53.38	-13.00	40.38	158	104	Horizontal
4	9480.4500	42.45	-40.15	38.47	-54.49	-13.00	41.49	179	226	Horizontal
5	11376.5400	40.34	-37.38	39.11	-53.19	-13.00	40.19	218	16	Horizontal
6	13272.6300	38.50	-36.97	40.00	-53.72	-13.00	40.72	149	195	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	3792.1800	55.93	-45.89	30.30	-54.92	-13.00	41.92	217	315	Vertical
2	5688.2700	48.99	-44.87	33.34	-57.80	-13.00	44.80	226	0	Vertical
3	7584.3600	46.75	-42.96	36.40	-55.07	-13.00	42.07	251	148	Vertical
4	9480.4500	43.90	-40.15	38.47	-53.04	-13.00	40.04	238	120	Vertical
5	11376.5400	40.05	-37.38	39.11	-53.48	-13.00	40.48	251	46	Vertical
6	13272.6300	39.92	-36.97	40.00	-52.30	-13.00	39.30	184	226	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
Band25	5MHz	QPSK	26365	6RB#0	VL	NT	6.00	0.003187	PASS
Band25	5MHz	QPSK	26365	6RB#0	VN	NT	-9.80	-0.005206	PASS
Band25	5MHz	QPSK	26365	6RB#0	VH	NT	3.60	0.001912	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band25	5MHz	QPSK	26365	6RB#0	NV	-30	4.40	0.002337	PASS
Band25	5MHz	QPSK	26365	6RB#0	NV	-20	0.50	0.000266	PASS
Band25	5MHz	QPSK	26365	6RB#0	NV	-10	-0.60	-0.000319	PASS
Band25	5MHz	QPSK	26365	6RB#0	NV	0	-11.00	-0.005843	PASS
Band25	5MHz	QPSK	26365	6RB#0	NV	10	-5.30	-0.002815	PASS
Band25	5MHz	QPSK	26365	6RB#0	NV	20	5.40	0.002869	PASS
Band25	5MHz	QPSK	26365	6RB#0	NV	30	-3.40	-0.001806	PASS
Band25	5MHz	QPSK	26365	6RB#0	NV	40	-3.70	-0.001965	PASS
Band25	5MHz	QPSK	26365	6RB#0	NV	50	-8.10	-0.004303	PASS

---End of Attachment---



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