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Rev.: 01

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# Appendix B.12

## LTE Cat-M1 Band85



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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
Band85	5M	QPSK	L	1RB0	20.64	21.49	34.77	PASS
Band85	5M	QPSK	L	1RB5	20.52	21.37	34.77	PASS
Band85	5M	QPSK	L	6RB0	19.42	20.27	34.77	PASS
Band85	5M	QPSK	M	1RB0	20.69	21.54	34.77	PASS
Band85	5M	QPSK	M	1RB5	20.63	21.48	34.77	PASS
Band85	5M	QPSK	M	6RB0	19.45	20.3	34.77	PASS
Band85	5M	QPSK	H	1RB0	20.58	21.43	34.77	PASS
Band85	5M	QPSK	H	1RB5	20.74	21.59	34.77	PASS
Band85	5M	QPSK	H	6RB0	19.36	20.21	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
Band85	5MHz	QPSK	L	6RB#0	10.88	13	PASS
Band85	5MHz	QPSK	M	6RB#0	10.92	13	PASS
Band85	5MHz	QPSK	H	6RB#0	10.90	13	PASS



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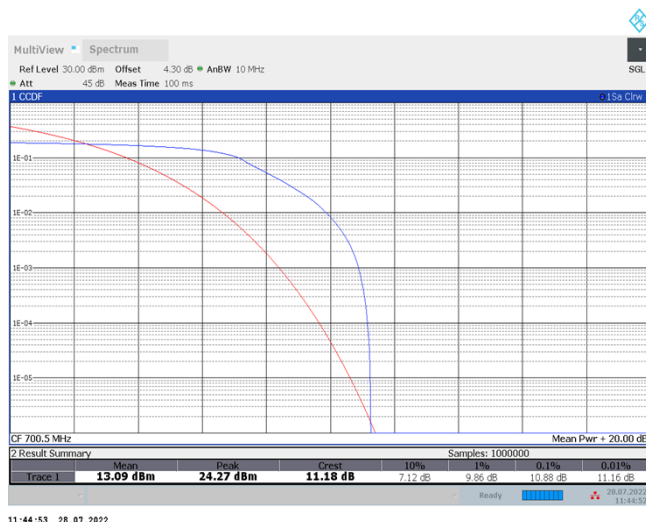
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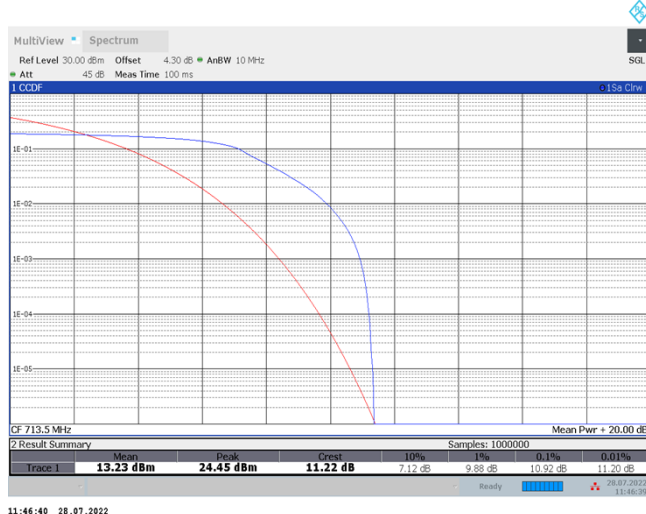
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### Test Graphs

Band85-5MHz-QPSK-23060-50RB#0



Band85-5MHz-QPSK-23095-50RB#0



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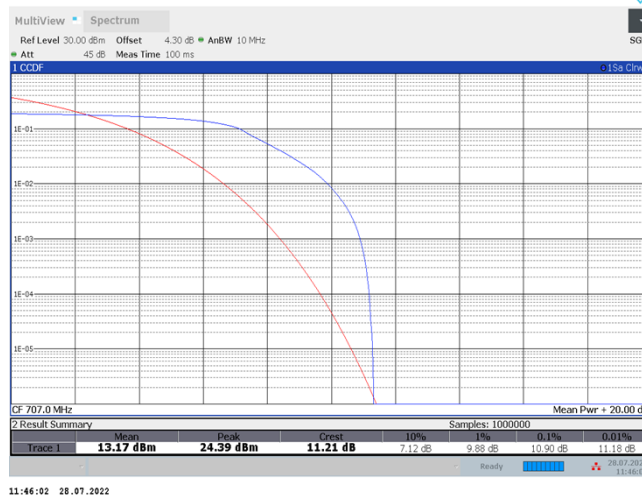
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### Band85-5MHz-16QAM-23060-50RB#0



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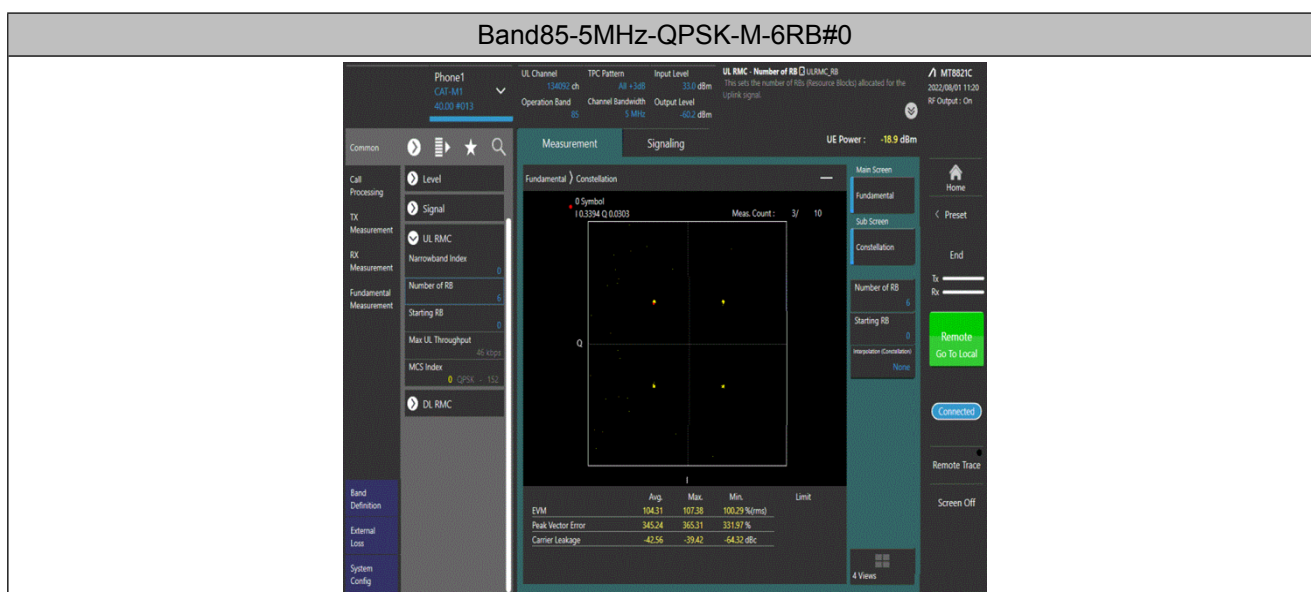
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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band85	5MHz	QPSK	M	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
Band85	5MHz	QPSK	134027	6RB#0	1.095	1.28	PASS
Band85	5MHz	QPSK	134092	6RB#0	1.121	1.43	PASS
Band85	5MHz	QPSK	134157	6RB#0	1.131	1.44	PASS



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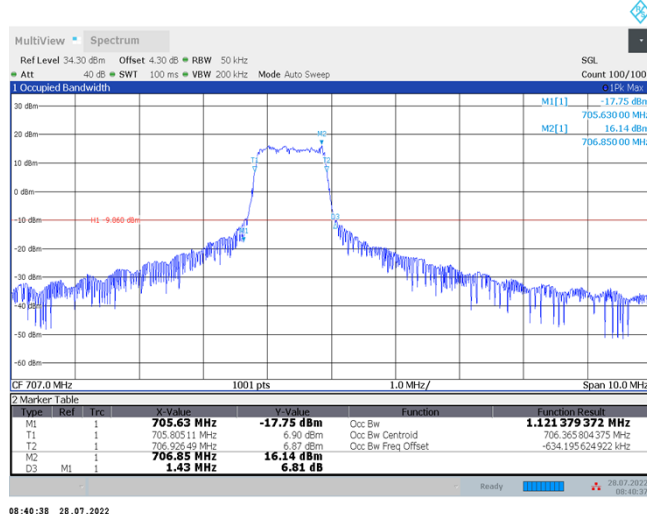
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### Test Graphs

Band85-5MHz-QPSK-134027-6RB#0



Band85-5MHz-QPSK-134092-6RB#0



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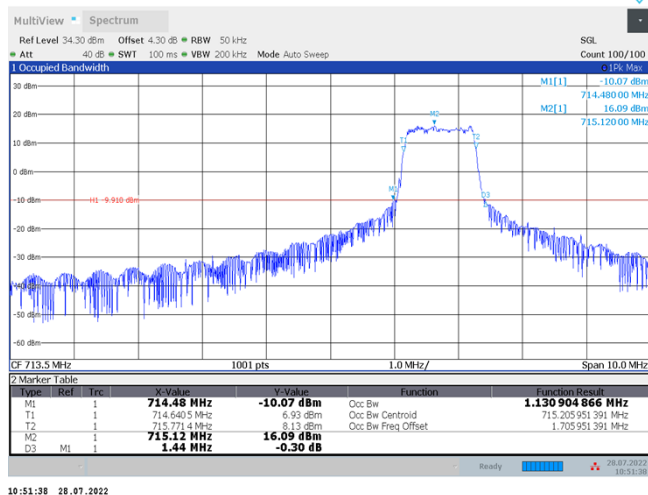


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### Band85-5MHz-QPSK-134157-6RB#0



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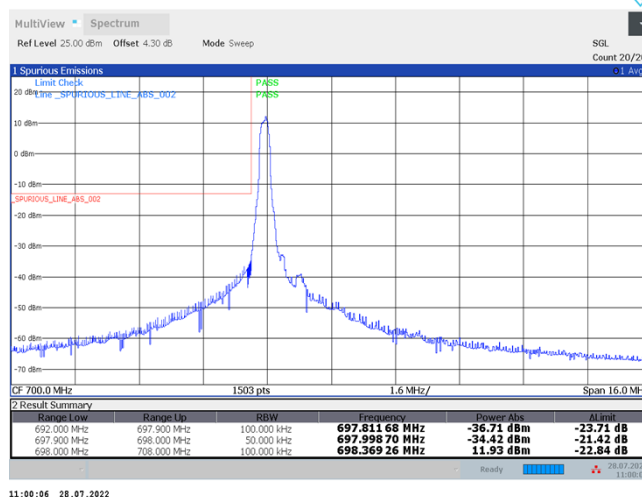
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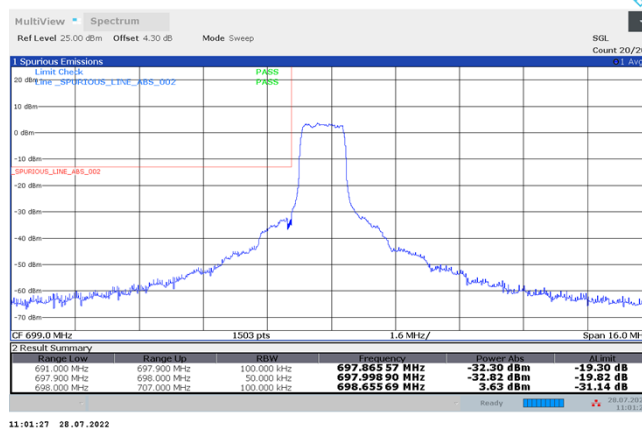
### Band Edge

### Test Graphs

#### Band85-5MHz-QPSK-L-1RB#0



#### Band85-5MHz-QPSK-L-6RB#0



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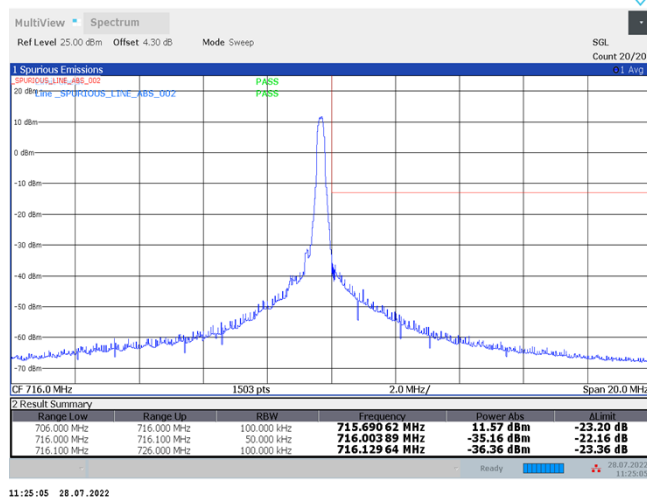
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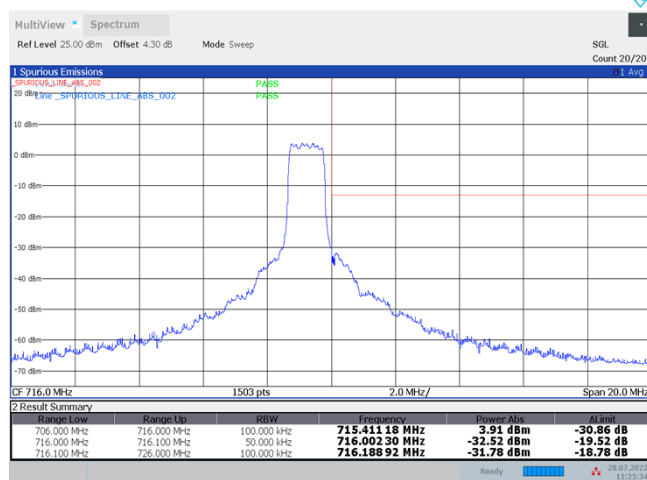
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### Band85-5MHz-QPSK-H-1RB#5



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### Band85-5MHz-QPSK-H-6RB#0



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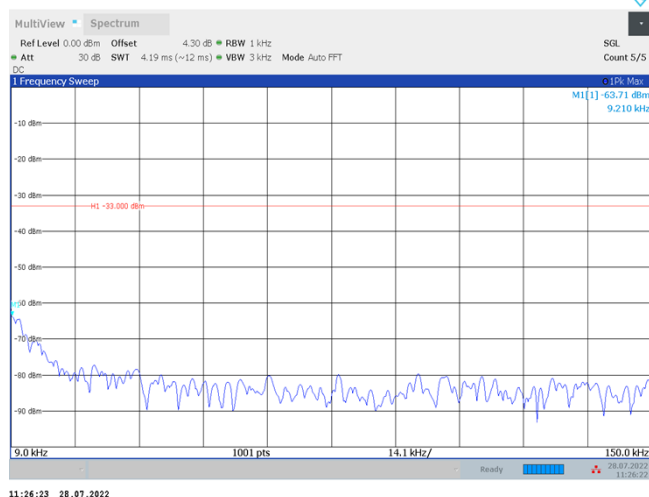
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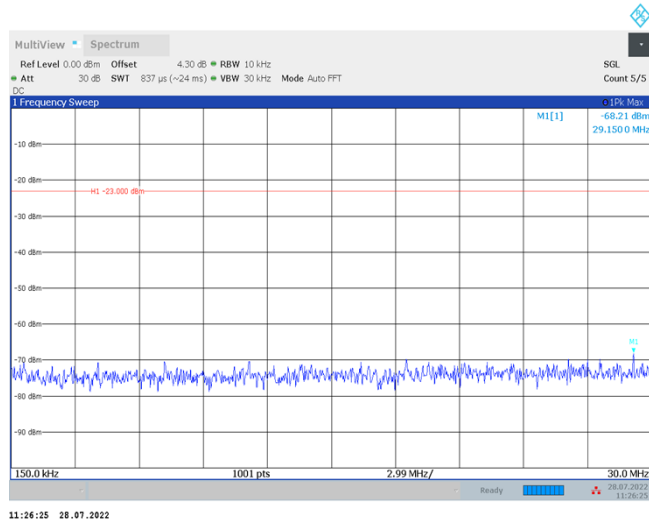
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### Test Graphs

Band85-5MHz-QPSK-L-1RB#0-Range1:0.009~0.15MHz



Band85-5MHz-QPSK-L-1RB#0-Range2:0.15~30MHz



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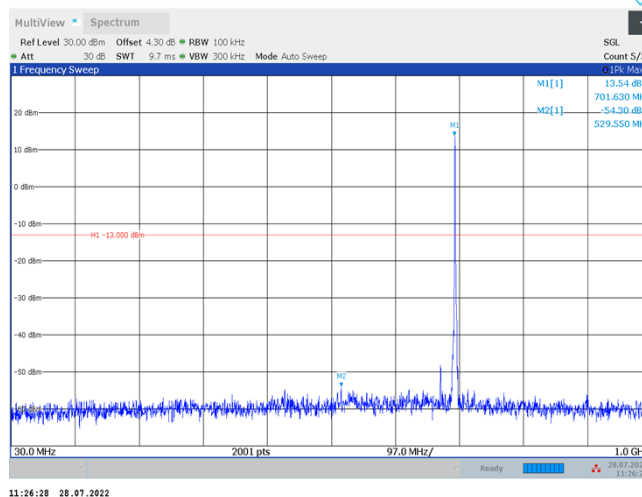
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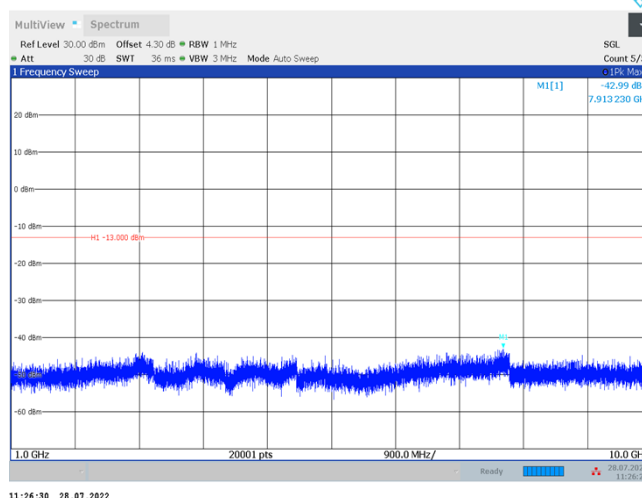
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### Band85-5MHz-QPSK-L-1RB#0-Range3:30~1000MHz



### Band85-5MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



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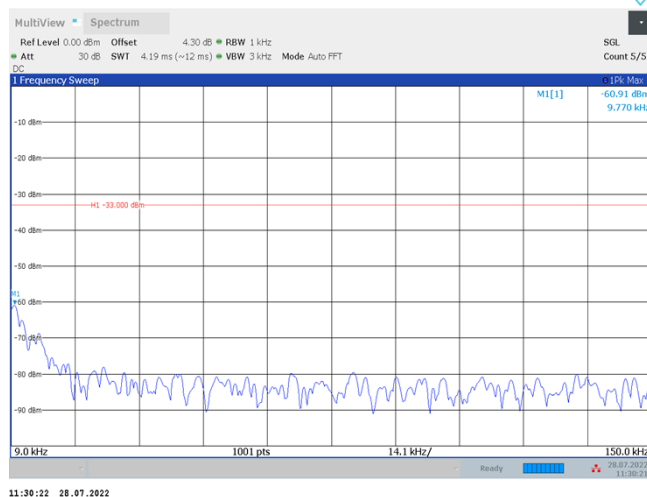
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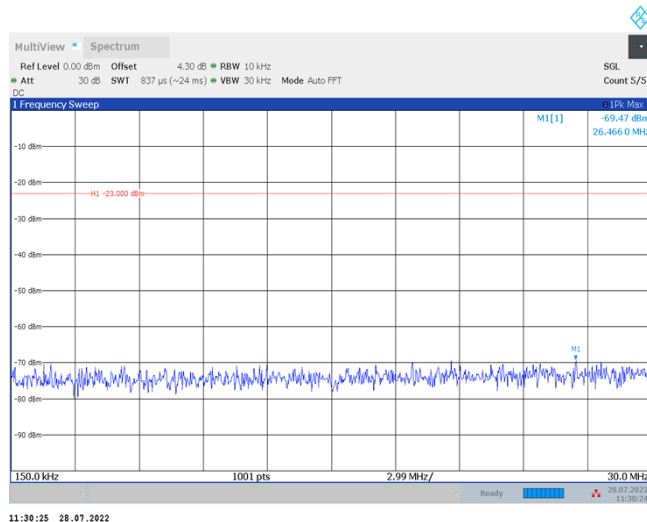
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### Band85-5MHz-QPSK-M-1RB#0-Range1:0.009~0.15MHz



### Band85-5MHz-QPSK-M-1RB#0-Range2:0.15~30MHz



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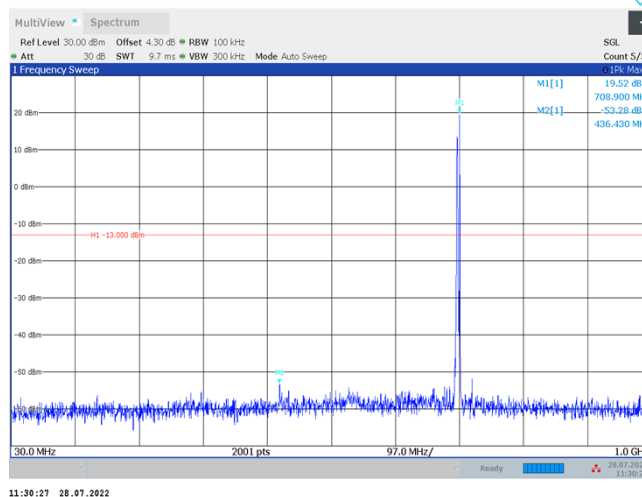


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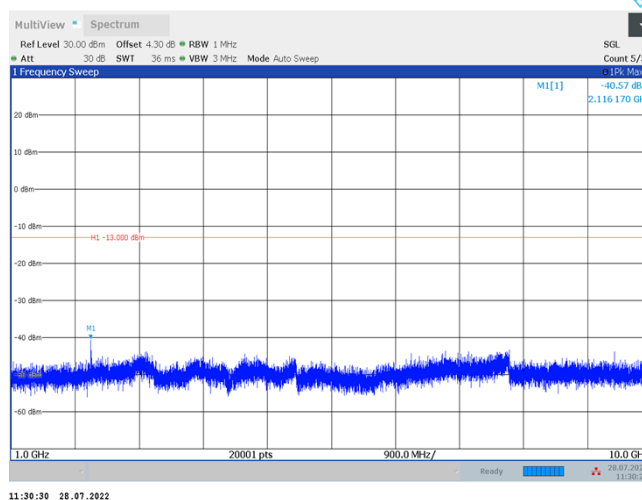
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### Band85-5MHz-QPSK-M-1RB#0-Range3:30~1000MHz



### Band85-5MHz-QPSK-M-1RB#0-Range4:1000~10000MHz



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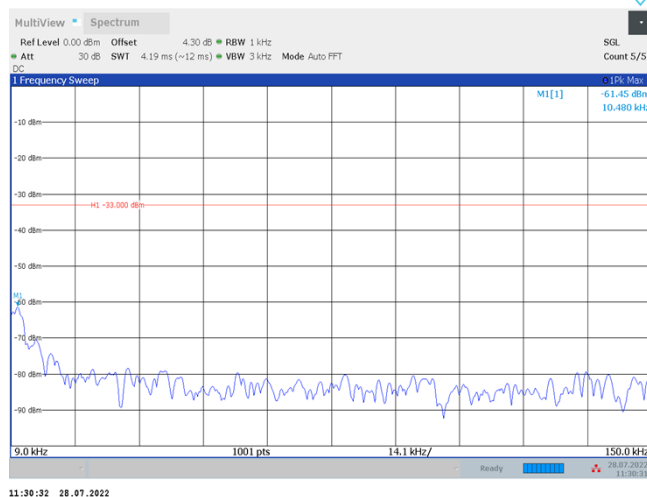
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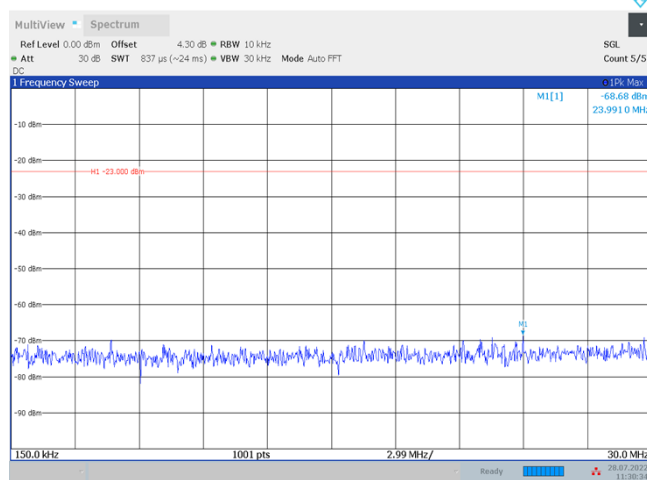
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### Band85-5MHz-QPSK-H-1RB#0-Range1:0.009~0.15MHz



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### Band85-5MHz-QPSK-H-1RB#0-Range2:0.15~30MHz



11:30:34 28.07.2022



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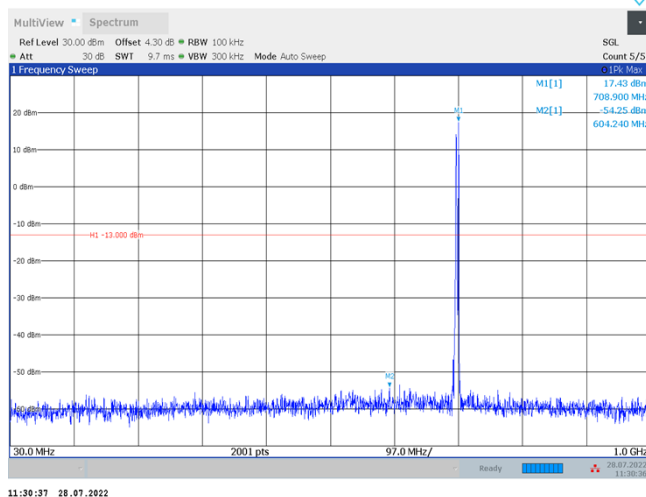
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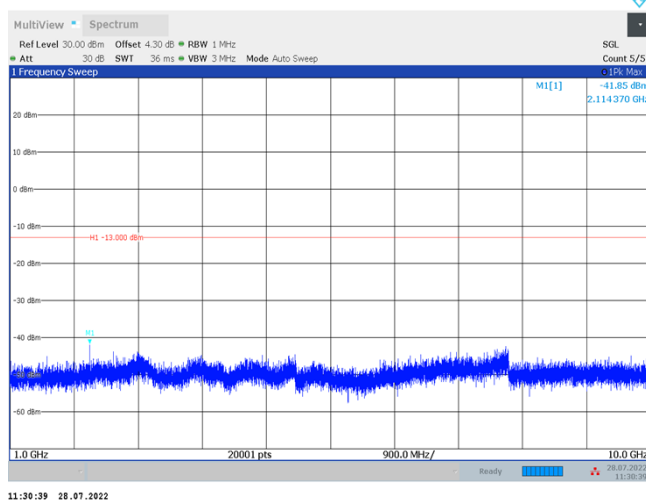
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### Band85-5MHz-QPSK-H-1RB#0-Range3:30~1000MHz



### Band85-5MHz-QPSK-H-1RB#0-Range4:1000~10000MHz



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## Field Strength of Spurious Radiation

**Test Band = CAT M1 Band 85\_ 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	1397.1800	63.63	-48.00	25.62	-54.01	-13.00	41.01	214	359	Horizontal
2	2095.7700	69.80	-47.72	26.98	-46.20	-13.00	33.20	168	317	Horizontal
3	2794.3600	57.60	-46.93	28.47	-56.12	-13.00	43.12	253	171	Horizontal
4	3494.2857	63.27	-46.54	29.51	-49.02	-13.00	36.02	229	250	Horizontal
5	4191.5400	50.00	-45.96	31.09	-60.13	-13.00	47.13	237	360	Horizontal
6	4890.1300	50.08	-45.59	32.57	-58.19	-13.00	45.19	246	250	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	1397.1800	54.14	-48.00	25.62	-63.50	-13.00	50.50	197	268	Vertical
2	2095.7700	63.29	-47.72	26.98	-52.71	-13.00	39.71	164	163	Vertical
3	2794.3600	49.92	-46.93	28.47	-63.80	-13.00	50.80	217	42	Vertical
4	3492.9500	50.91	-46.54	29.51	-61.38	-13.00	48.38	226	83	Vertical
5	4191.5400	48.63	-45.96	31.09	-61.50	-13.00	48.50	235	294	Vertical
6	4890.1300	50.16	-45.59	32.57	-58.11	-13.00	45.11	184	227	Vertical



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**Test Band = CAT M1 Band 85\_ 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	1405.1800	63.87	-48.02	25.61	-53.80	-13.00	40.80	167	359	Horizontal
2	2107.7700	72.10	-47.71	27.02	-43.85	-13.00	30.85	149	304	Horizontal
3	2810.3900	64.21	-46.88	28.53	-49.40	-13.00	36.40	213	224	Horizontal
4	3513.7143	62.19	-46.51	29.53	-50.05	-13.00	37.05	228	250	Horizontal
5	4215.5400	49.06	-45.93	31.13	-61.00	-13.00	48.00	254	104	Horizontal
6	4918.1300	49.45	-45.62	32.65	-58.78	-13.00	45.78	237	359	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	1405.1800	54.31	-48.02	25.61	-63.36	-13.00	50.36	191	280	Vertical
2	2107.7700	62.35	-47.71	27.02	-53.60	-13.00	40.60	213	68	Vertical
3	2810.3900	50.76	-46.88	28.53	-62.85	-13.00	49.85	253	0	Vertical
4	3512.9500	50.50	-46.51	29.53	-61.74	-13.00	48.74	186	356	Vertical
5	4215.5400	50.12	-45.93	31.13	-59.94	-13.00	46.94	237	347	Vertical
6	4918.1300	50.33	-45.62	32.65	-57.90	-13.00	44.90	254	42	Vertical



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**Test Band = CAT M1 Band 85\_ 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	1413.1800	62.78	-48.04	25.60	-54.92	-13.00	41.92	218	292	Horizontal
2	2119.7700	76.66	-47.70	27.06	-39.24	-13.00	26.24	193	226	Horizontal
3	2532.9500	51.42	-47.16	27.88	-63.12	-13.00	50.12	256	264	Horizontal
4	2826.3600	65.45	-46.83	28.60	-48.04	-13.00	35.04	271	226	Horizontal
5	4239.5400	49.27	-45.89	31.18	-60.70	-13.00	47.70	238	104	Horizontal
6	4946.1300	49.53	-45.69	32.73	-58.69	-13.00	45.69	259	292	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	1413.1800	52.73	-48.04	25.60	-64.97	-13.00	51.97	146	9	Vertical
2	2120.5714	66.56	-47.70	27.06	-49.34	-13.00	36.34	216	269	Vertical
3	2532.9500	51.04	-47.16	27.88	-63.50	-13.00	50.50	257	95	Vertical
4	2826.3600	52.05	-46.83	28.60	-61.44	-13.00	48.44	168	269	Vertical
5	4239.5400	49.78	-45.89	31.18	-60.19	-13.00	47.19	193	123	Vertical
6	4946.1300	49.78	-45.69	32.73	-58.44	-13.00	45.44	171	55	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
Band85	5MHz	QPSK	M	6RB#0	VL	NT	-7.40	-0.002056	PASS
Band85	5MHz	QPSK	M	6RB#0	VN	NT	-5.00	-0.001389	PASS
Band85	5MHz	QPSK	M	6RB#0	VH	NT	-8.80	-0.002444	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band85	5MHz	QPSK	M	6RB#0	NV	-30	-15.50	-0.004306	PASS
Band85	5MHz	QPSK	M	6RB#0	NV	-20	-15.00	-0.004167	PASS
Band85	5MHz	QPSK	M	6RB#0	NV	0	-12.80	-0.003556	PASS
Band85	5MHz	QPSK	M	6RB#0	NV	10	-4.40	-0.001222	PASS
Band85	5MHz	QPSK	M	6RB#0	NV	20	-5.30	-0.001472	PASS
Band85	5MHz	QPSK	M	6RB#0	NV	30	-12.20	-0.003389	PASS
Band85	5MHz	QPSK	M	6RB#0	NV	40	-14.30	-0.003972	PASS
Band85	5MHz	QPSK	M	6RB#0	NV	50	-7.70	-0.002139	PASS

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