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# Appendix B.2

## LTE Cat-M1 Band2



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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
Band2	1.4M	QPSK	L	1RB0	20.43	23.43	33	PASS
Band2	1.4M	QPSK	L	1RB5	20.24	23.24	33	PASS
Band2	1.4M	QPSK	L	6RB0	18.36	21.36	33	PASS
Band2	1.4M	QPSK	M	1RB0	20.32	23.32	33	PASS
Band2	1.4M	QPSK	M	1RB5	20.41	23.41	33	PASS
Band2	1.4M	QPSK	M	6RB0	18.45	21.45	33	PASS
Band2	1.4M	QPSK	H	1RB0	20.32	23.32	33	PASS
Band2	1.4M	QPSK	H	1RB5	20.45	23.45	33	PASS
Band2	1.4M	QPSK	H	6RB0	18.44	21.44	33	PASS
Band2	3M	QPSK	L	1RB0	20.34	23.34	33	PASS
Band2	3M	QPSK	L	1RB5	20.34	23.34	33	PASS
Band2	3M	QPSK	L	6RB0	18.45	21.45	33	PASS
Band2	3M	QPSK	M	1RB0	20.45	23.45	33	PASS
Band2	3M	QPSK	M	1RB5	20.34	23.34	33	PASS
Band2	3M	QPSK	M	6RB0	18.41	21.41	33	PASS
Band2	3M	QPSK	H	1RB0	20.32	23.32	33	PASS
Band2	3M	QPSK	H	1RB5	20.14	23.14	33	PASS
Band2	3M	QPSK	H	6RB0	18.41	21.41	33	PASS
Band2	5M	QPSK	L	1RB0	20.25	23.25	33	PASS
Band2	5M	QPSK	L	1RB5	20.14	23.14	33	PASS
Band2	5M	QPSK	L	6RB0	19.28	22.28	33	PASS
Band2	5M	QPSK	M	1RB0	20.32	23.32	33	PASS
Band2	5M	QPSK	M	1RB5	20.41	23.41	33	PASS
Band2	5M	QPSK	M	6RB0	19.32	22.32	33	PASS
Band2	5M	QPSK	H	1RB0	20.69	23.69	33	PASS
Band2	5M	QPSK	H	1RB5	20.54	23.54	33	PASS
Band2	5M	QPSK	H	6RB0	19.45	22.45	33	PASS



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## Peak-to-Average Ratio(CCDF)

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band2	5MHz	QPSK	18625	6RB#0	8.94	13	PASS
Band2	5MHz	QPSK	18900	6RB#0	9.04	13	PASS
Band2	5MHz	QPSK	19175	6RB#0	9.92	13	PASS



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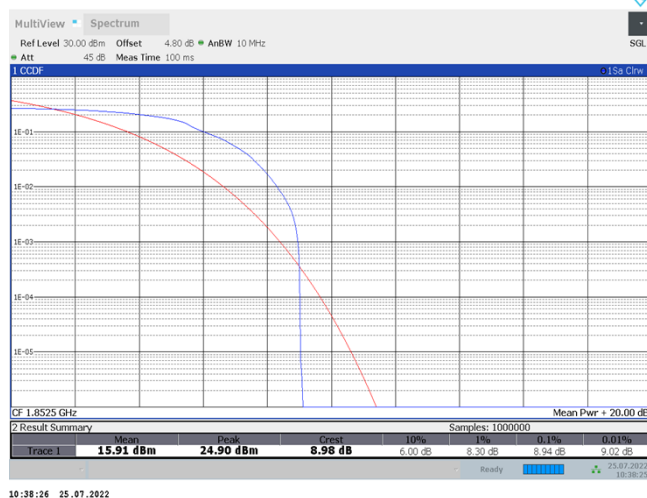
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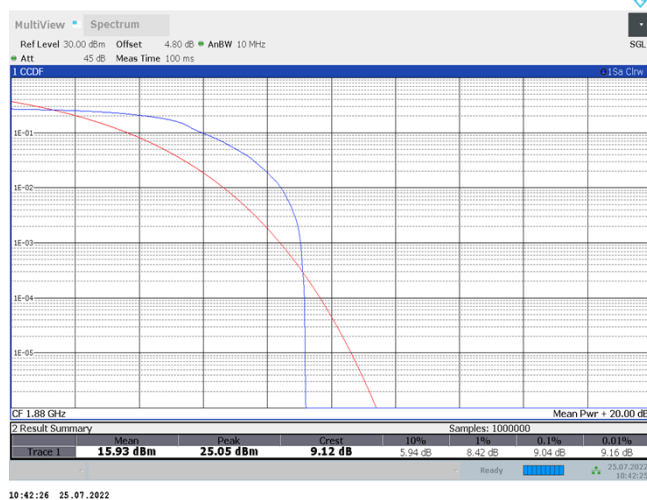
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### Test Graphs

Band2-5MHz-QPSK-18625-6RB#0



Band2-5MHz-QPSK-18900-6RB#0



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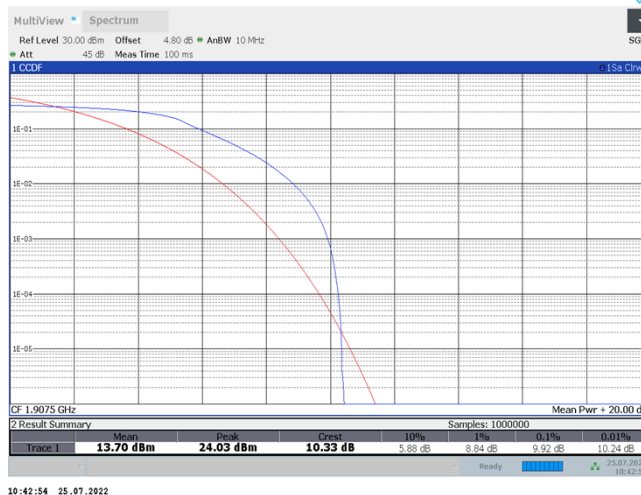
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### Band2-5MHz-QPSK-19175-6RB#0



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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band2	5MHz	QPSK	18900	6RB#0	PASS	PASS



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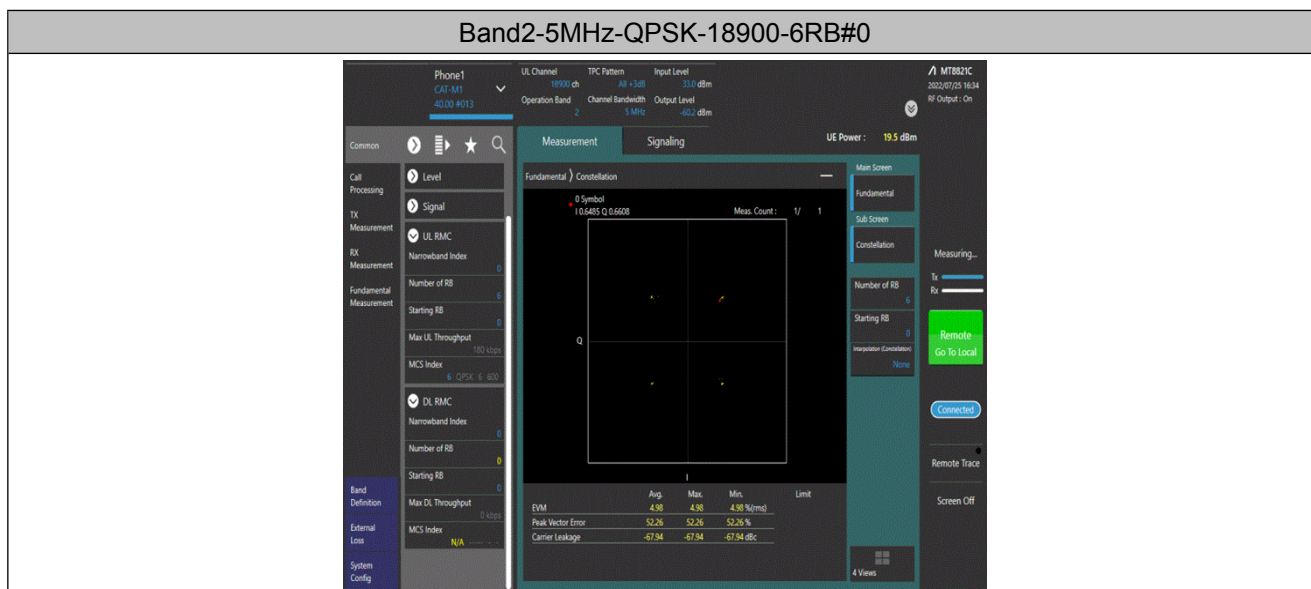


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### Test Graphs



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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band2	1.4MHz	QPSK	18607	6RB#0	1.087	1.17	PASS
Band2	1.4MHz	QPSK	18900	6RB#0	1.095	1.28	PASS
Band2	1.4MHz	QPSK	19193	6RB#0	1.096	1.30	PASS
Band2	3MHz	QPSK	18615	6RB#0	1.109	1.33	PASS
Band2	3MHz	QPSK	18900	6RB#0	1.104	1.33	PASS
Band2	3MHz	QPSK	19185	6RB#0	1.120	1.36	PASS
Band2	5MHz	QPSK	18625	6RB#0	1.129	1.35	PASS
Band2	5MHz	QPSK	18900	6RB#0	1.128	1.35	PASS
Band2	5MHz	QPSK	19175	6RB#0	1.113	1.30	PASS



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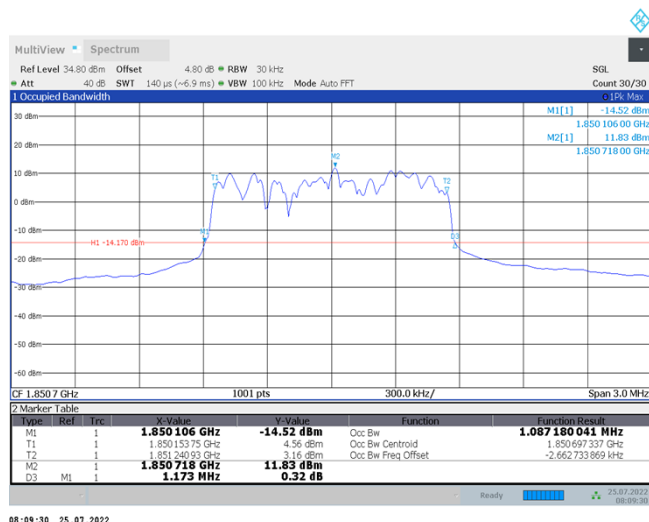
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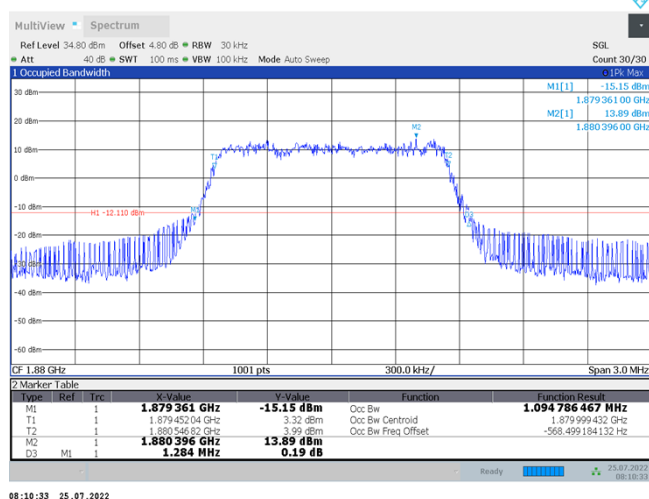
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### Test Graphs

Band2-1.4MHz-QPSK-18607-6RB#0



Band2-1.4MHz-QPSK-18900-6RB#0



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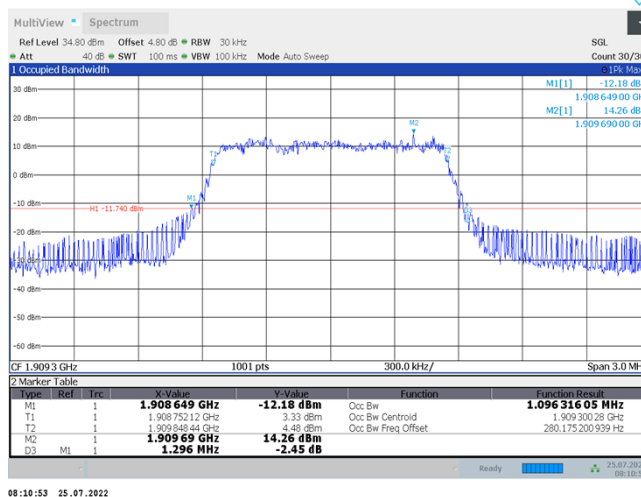
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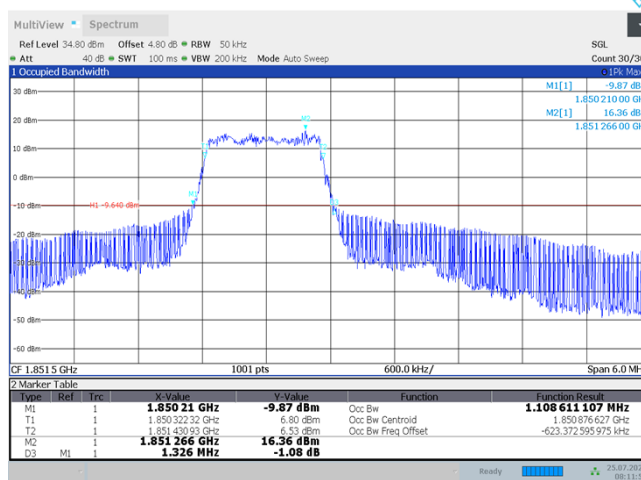
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### Band2-1.4MHz-QPSK-19193-6RB#0



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### Band2-3MHz-QPSK-18615-6RB#0



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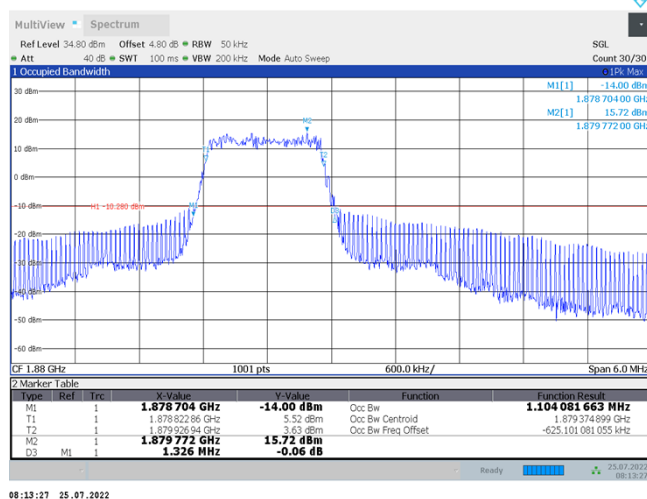
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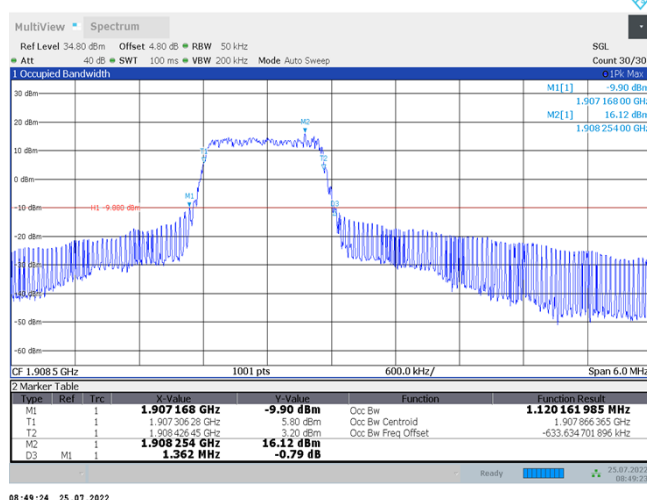
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### Band2-3MHz-QPSK-19185-6RB#0



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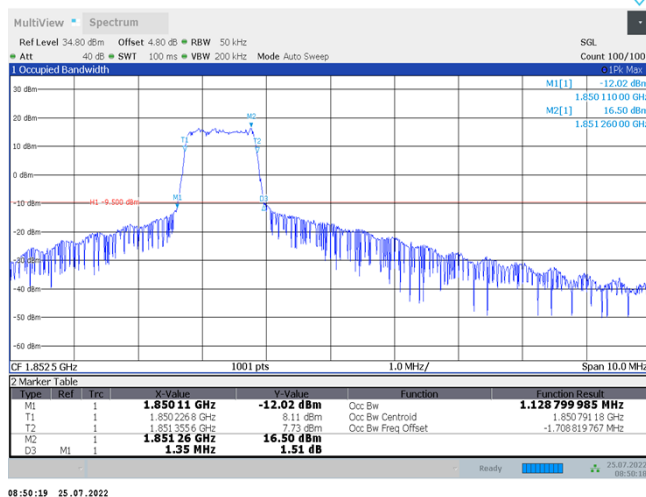
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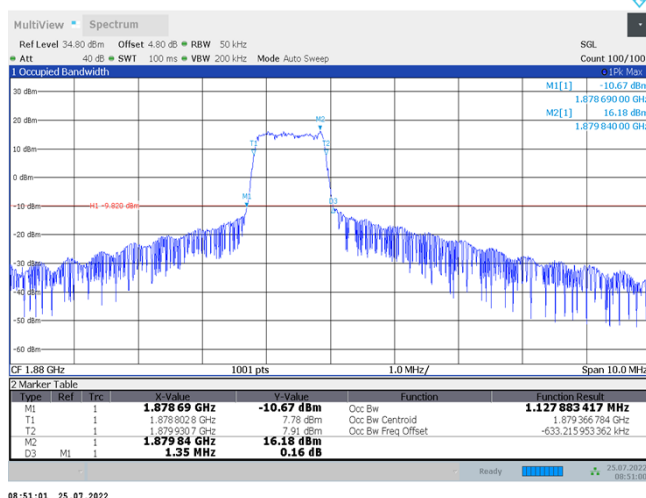
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### Band2-5MHz-QPSK-18625-6RB#0



### Band2-5MHz-QPSK-18900-6RB#0



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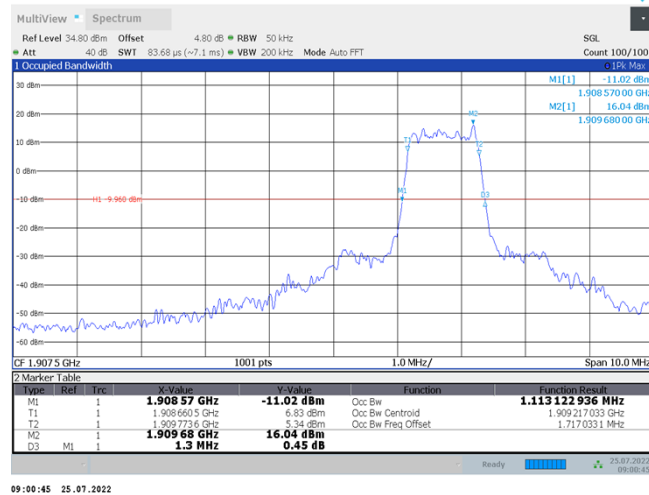
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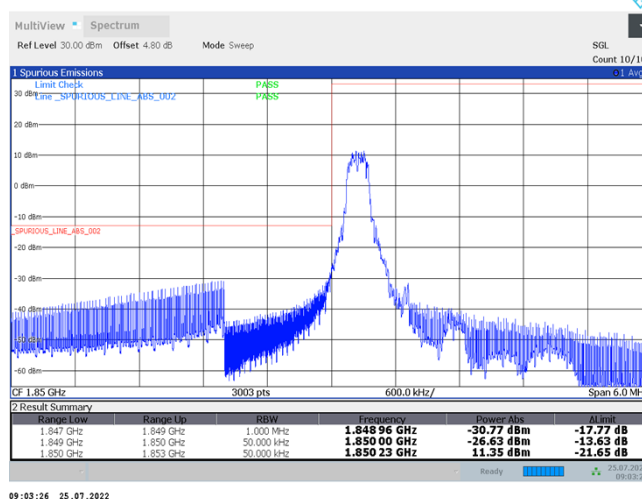
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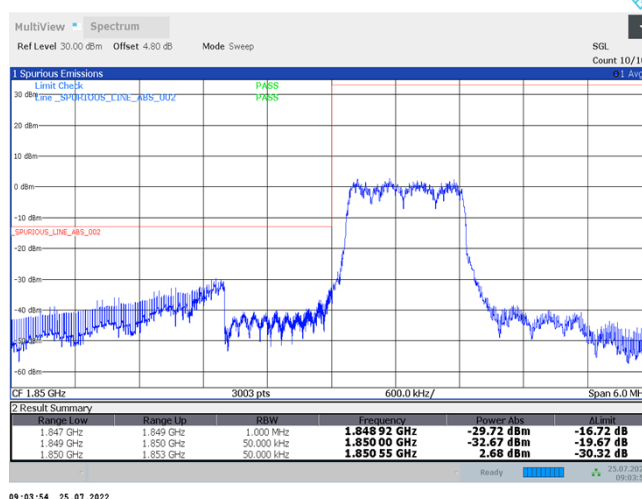
### Band Edge

### Test Graphs

Band2-1.4MHz-QPSK-18607-1RB#0



Band2-1.4MHz-QPSK-18607-6RB#0



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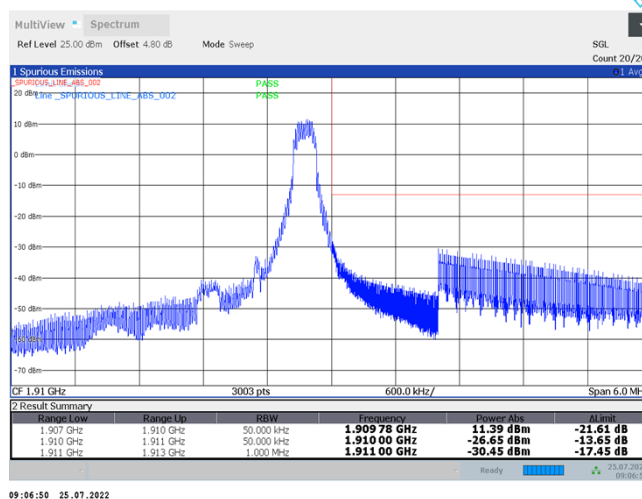


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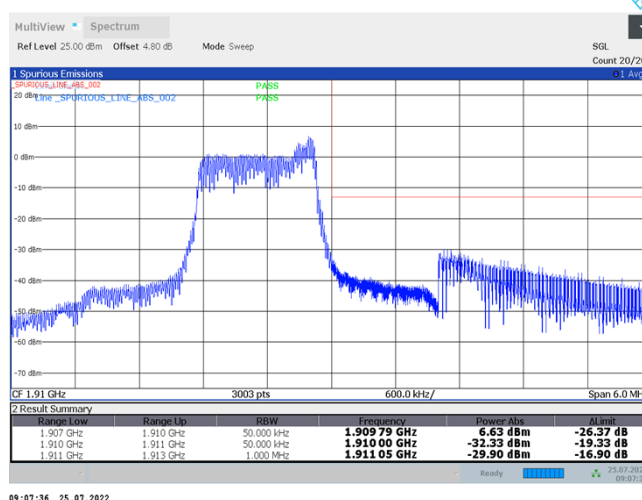
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### Band2-1.4MHz-QPSK-19193-1RB#5



### Band2-1.4MHz-QPSK-19193-6RB#0



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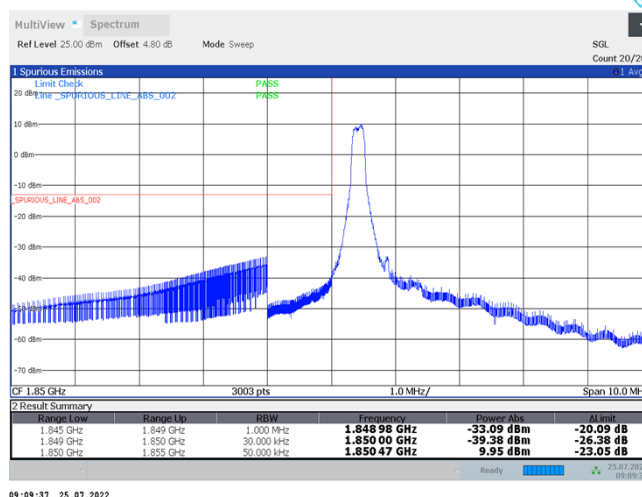
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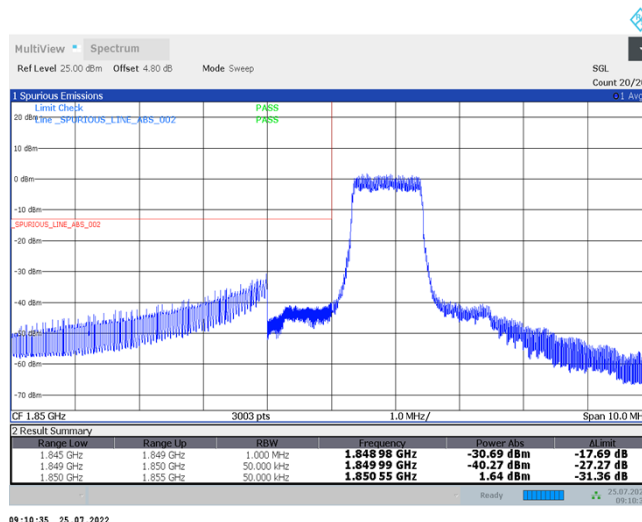
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### Band2-3MHz-QPSK-18615-1RB#0



### Band2-3MHz-QPSK-18615-6RB#0



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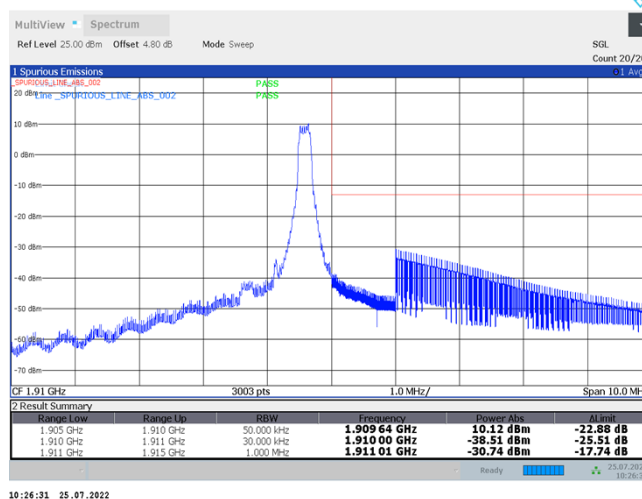
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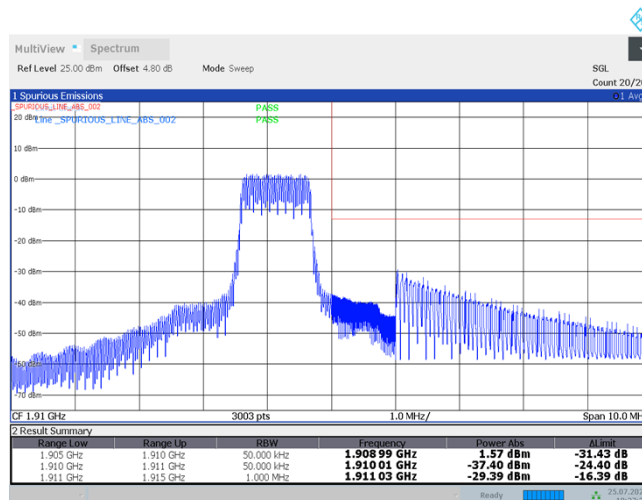
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### Band2-3MHz-QPSK-19185-1RB#14



10:26:31 25.07.2022

### Band2-3MHz-QPSK-19185-6RB#0



10:27:27 25.07.2022



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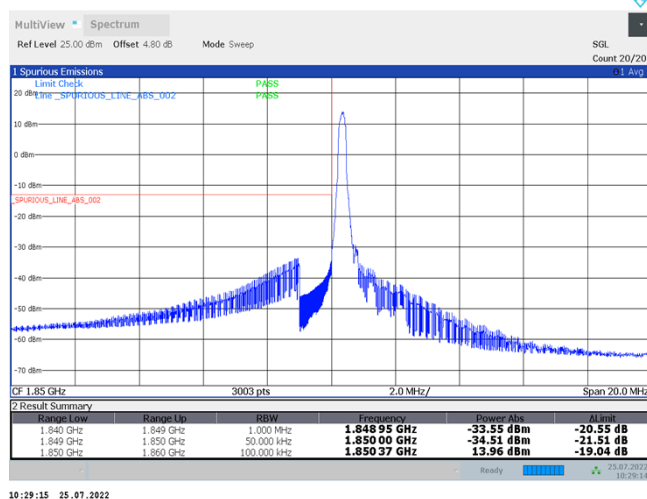
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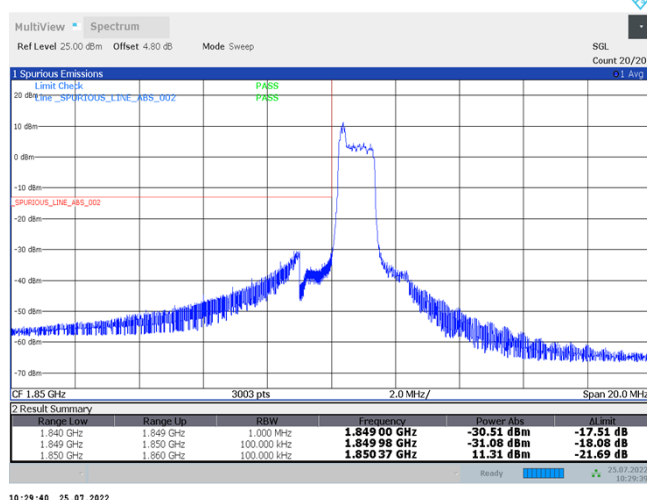
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### Band2-5MHz-QPSK-18625-1RB#0



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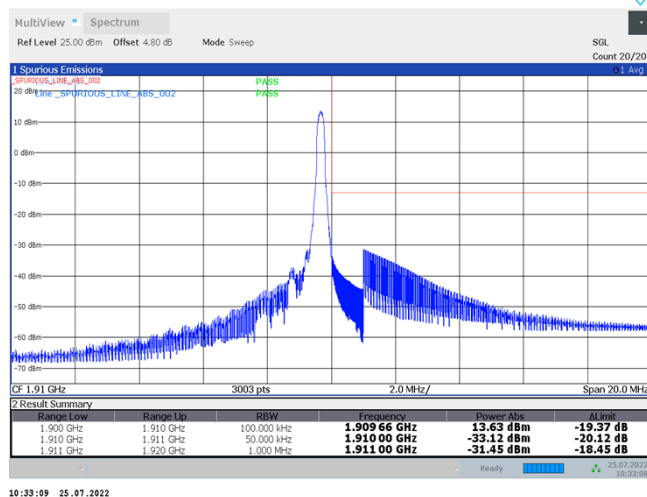
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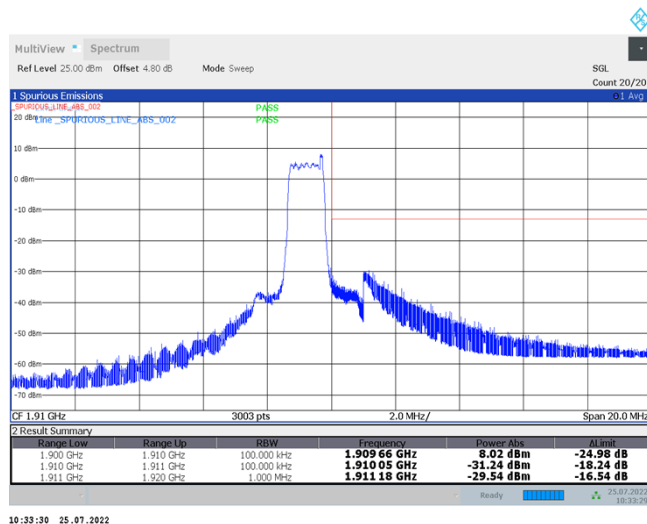
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### Band2-5MHz-QPSK-19175-6RB#0



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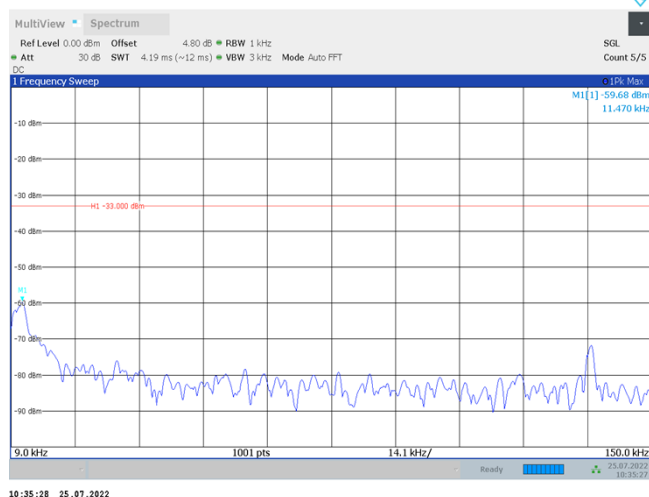
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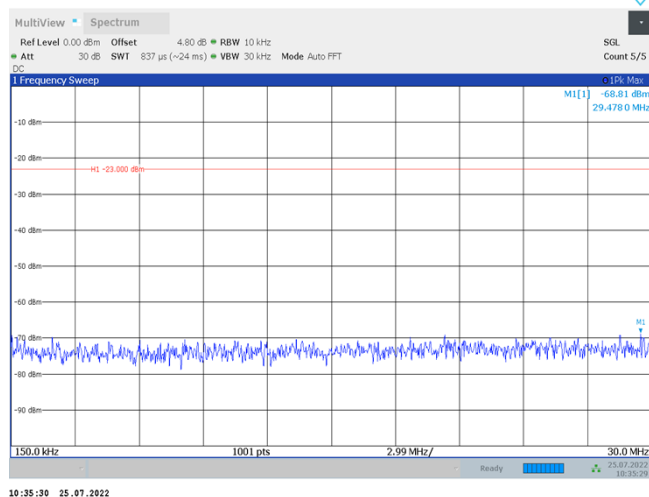
### Conducted Spurious Emission

#### Test Graphs

Band2-5MHz-QPSK-18700-1RB#0-Range1:0.009~0.15MHz



Band2-5MHz-QPSK-18700-1RB#0-Range2:0.15~30MHz



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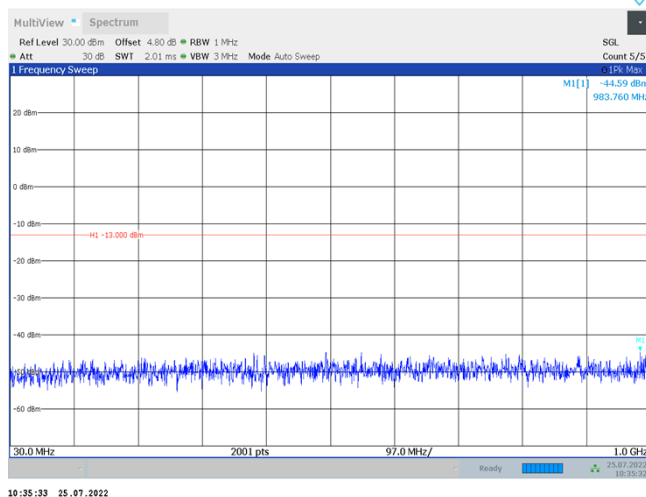


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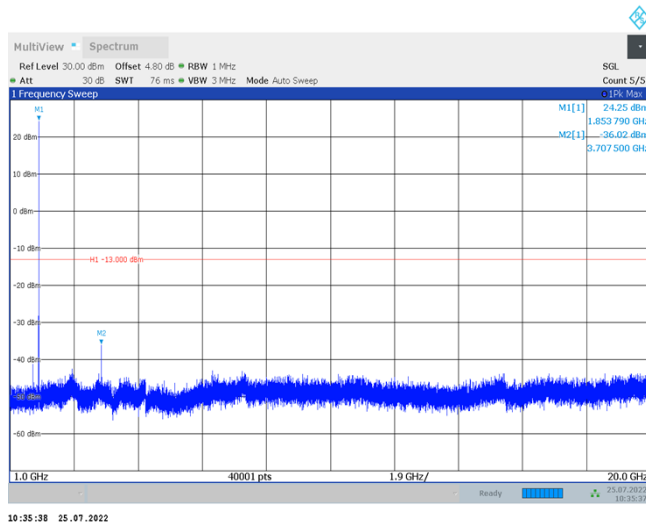
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### Band2-5MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



### Band2-5MHz-QPSK-18700-1RB#0-Range4:1000~20000MHz



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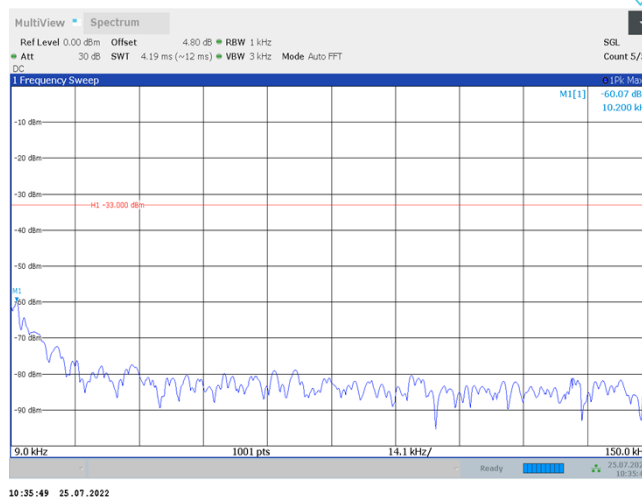
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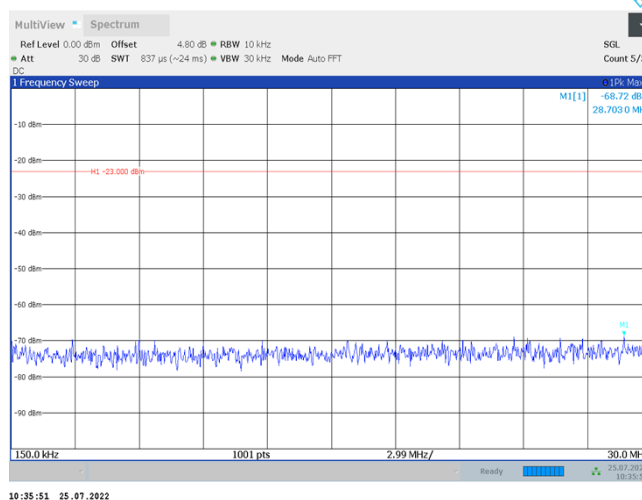
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### Band2-5MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz



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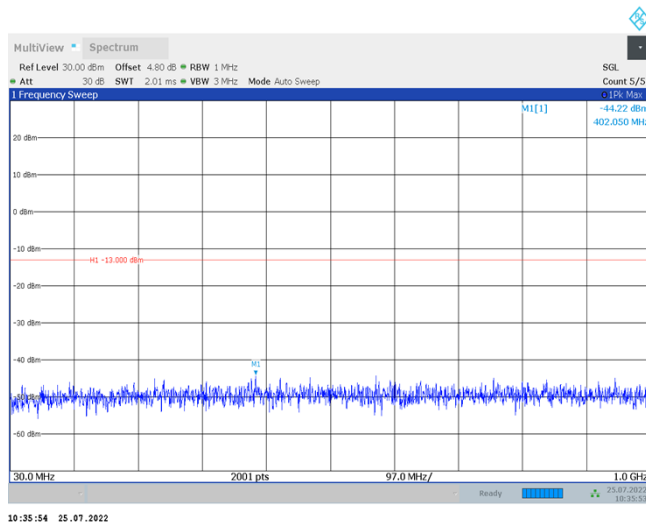
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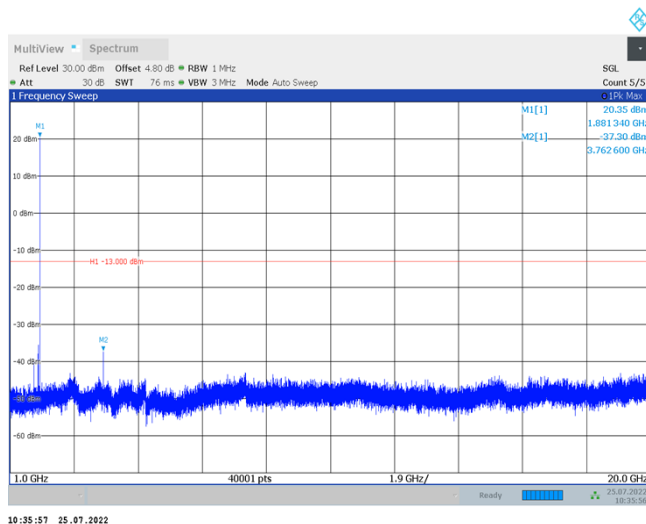
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### Band2-5MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



### Band2-5MHz-QPSK-18900-1RB#0-Range4:1000~20000MHz



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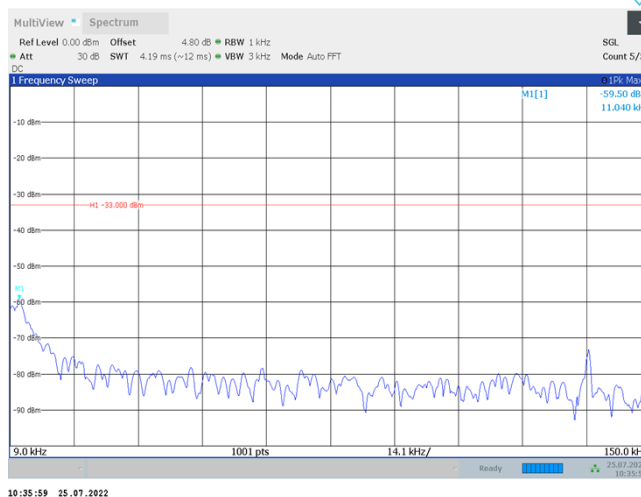
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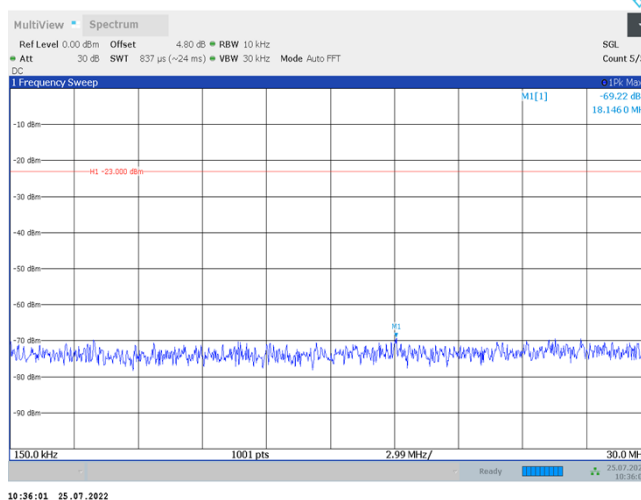
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### Band2-5MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz



### Band2-5MHz-QPSK-19100-1RB#0-Range2:0.15~30MHz



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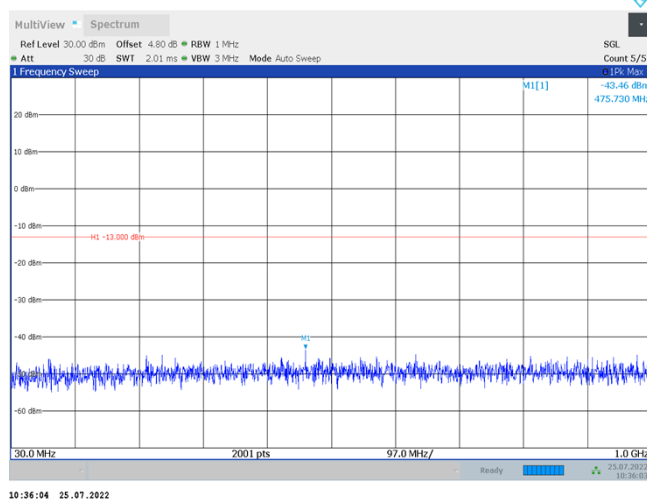
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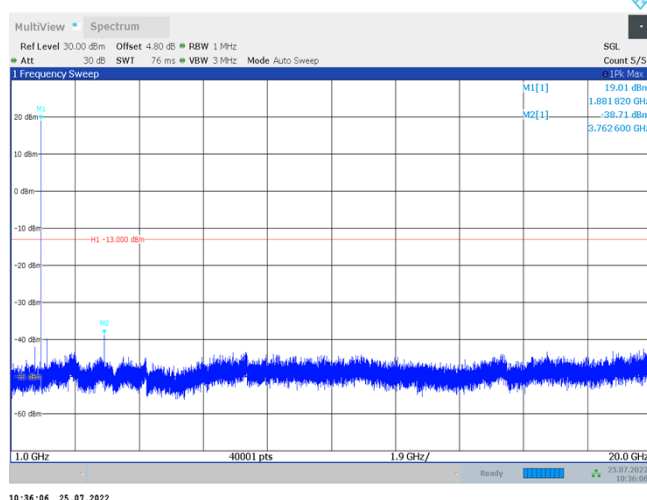
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### Band2-5MHz-QPSK-19100-1RB#0-Range3:30~1000MHz



### Band2-5MHz-QPSK-19100-1RB#0-Range4:1000~20000MHz



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## Field Strength of Spurious Radiation

**Test Band = CAT M1 Band 2\_ 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	79.75	-45.51	29.98	-31.04	-13.00	18.04	169	240	Horizontal
2	5553.2700	49.07	-45.15	32.97	-58.37	-13.00	45.37	183	300	Horizontal
3	7404.3600	47.33	-43.40	36.49	-54.84	-13.00	41.84	212	134	Horizontal
4	9255.4500	41.54	-40.23	38.38	-55.57	-13.00	42.57	141	165	Horizontal
5	11106.5400	37.64	-37.93	39.09	-56.46	-13.00	43.46	235	179	Horizontal
6	12957.6300	35.42	-37.24	39.79	-57.29	-13.00	44.29	198	314	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	64.87	-45.51	29.98	-45.92	-13.00	32.92	163	286	Vertical
2	5553.2700	48.94	-45.15	32.97	-58.50	-13.00	45.50	241	359	Vertical
3	7404.3600	46.91	-43.40	36.49	-55.26	-13.00	42.26	229	179	Vertical
4	9255.4500	41.92	-40.23	38.38	-55.19	-13.00	42.19	182	105	Vertical
5	11106.5400	37.68	-37.93	39.09	-56.42	-13.00	43.42	157	271	Vertical
6	12957.6300	36.21	-37.24	39.79	-56.50	-13.00	43.50	164	359	Vertical



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**Test Band = CAT M1 Band 2\_ 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	3743.25	71.98	-45.68	30.13	-38.84	-13.00	25.84	146	301	Horizontal
2	5613.2700	49.97	-45.04	33.07	-57.26	-13.00	44.26	196	241	Horizontal
3	7484.3600	46.59	-43.18	36.45	-55.40	-13.00	42.40	218	195	Horizontal
4	9355.4500	40.67	-40.00	38.46	-56.14	-13.00	43.14	231	90	Horizontal
5	11226.5400	39.99	-37.40	39.11	-53.56	-13.00	40.56	173	59	Horizontal
6	13097.6300	34.68	-37.01	39.87	-57.71	-13.00	44.71	253	30	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	3743.25	63.17	-45.68	30.13	-47.65	-13.00	34.65	163	299	Vertical
2	5613.2700	47.85	-45.04	33.07	-59.38	-13.00	46.38	143	269	Vertical
3	7484.3600	46.85	-43.18	36.45	-55.14	-13.00	42.14	198	104	Vertical
4	9355.4500	40.45	-40.00	38.46	-56.36	-13.00	43.36	214	285	Vertical
5	11226.5400	40.13	-37.40	39.11	-53.42	-13.00	40.42	236	118	Vertical
6	13097.6300	36.09	-37.01	39.87	-56.30	-13.00	43.30	247	195	Vertical



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**Test Band = CAT M1 Band 2\_ 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	3783	70.78	-45.85	30.27	-40.06	-13.00	27.06	192	3	Horizontal
2	5673.2700	48.77	-44.91	33.29	-58.11	-13.00	45.11	214	165	Horizontal
3	7564.3600	45.95	-43.00	36.41	-55.91	-13.00	42.91	182	120	Horizontal
4	9455.4500	42.65	-40.05	38.48	-54.19	-13.00	41.19	172	360	Horizontal
5	11346.5400	37.81	-37.40	39.11	-55.74	-13.00	42.74	215	44	Horizontal
6	13237.6300	34.84	-37.08	39.96	-57.53	-13.00	44.53	236	352	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	3783.75	59.55	-45.85	30.27	-51.29	-13.00	38.29	164	270	Vertical
2	5673.2700	48.49	-44.91	33.29	-58.39	-13.00	45.39	156	165	Vertical
3	7564.3600	47.09	-43.00	36.41	-54.77	-13.00	41.77	235	44	Vertical
4	9455.4500	43.87	-40.05	38.48	-52.97	-13.00	39.97	228	44	Vertical
5	11346.5400	37.65	-37.40	39.11	-55.90	-13.00	42.90	219	330	Vertical
6	13237.6300	33.74	-37.08	39.96	-58.63	-13.00	45.63	241	352	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
Band2	5MHz	QPSK	18900	6RB#0	VL	NT	-3.20	-0.001702	PASS
Band2	5MHz	QPSK	18900	6RB#0	VN	NT	-11.50	-0.006117	PASS
Band2	5MHz	QPSK	18900	6RB#0	VH	NT	-8.30	-0.004415	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	5MHz	QPSK	18900	6RB#0	NV	-30	-13.40	-0.007128	PASS
Band2	5MHz	QPSK	18900	6RB#0	NV	-20	-3.90	-0.002074	PASS
Band2	5MHz	QPSK	18900	6RB#0	NV	-10	-6.20	-0.003298	PASS
Band2	5MHz	QPSK	18900	6RB#0	NV	0	-3.50	-0.001862	PASS
Band2	5MHz	QPSK	18900	6RB#0	NV	10	-15.40	-0.008191	PASS
Band2	5MHz	QPSK	18900	6RB#0	NV	20	-6.10	-0.003245	PASS
Band2	5MHz	QPSK	18900	6RB#0	NV	30	-9.10	-0.004840	PASS
Band2	5MHz	QPSK	18900	6RB#0	NV	40	-11.30	-0.006011	PASS
Band2	5MHz	QPSK	18900	6RB#0	NV	50	-5.10	-0.002713	PASS

---End of Attachment---



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