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Appendix B.5

LTE Cat-M1 Band12



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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
Band12	1.4M	QPSK	L	1RB0	20.63	21.48	34.77	PASS
Band12	1.4M	QPSK	L	1RB5	20.51	21.36	34.77	PASS
Band12	1.4M	QPSK	L	6RB0	18.63	19.48	34.77	PASS
Band12	1.4M	QPSK	M	1RB0	20.52	21.37	34.77	PASS
Band12	1.4M	QPSK	M	1RB5	20.36	21.21	34.77	PASS
Band12	1.4M	QPSK	M	6RB0	18.52	19.37	34.77	PASS
Band12	1.4M	QPSK	H	1RB0	20.33	21.18	34.77	PASS
Band12	1.4M	QPSK	H	1RB5	20.41	21.26	34.77	PASS
Band12	1.4M	QPSK	H	6RB0	18.42	19.27	34.77	PASS
Band12	3M	QPSK	L	1RB0	20.56	21.41	34.77	PASS
Band12	3M	QPSK	L	1RB5	20.32	21.17	34.77	PASS
Band12	3M	QPSK	L	6RB0	18.96	19.81	34.77	PASS
Band12	3M	QPSK	M	1RB0	20.63	21.48	34.77	PASS
Band12	3M	QPSK	M	1RB5	20.45	21.3	34.77	PASS
Band12	3M	QPSK	M	6RB0	18.54	19.39	34.77	PASS
Band12	3M	QPSK	H	1RB0	20.34	21.19	34.77	PASS
Band12	3M	QPSK	H	1RB5	20.45	21.3	34.77	PASS
Band12	3M	QPSK	H	6RB0	18.46	19.31	34.77	PASS
Band12	5M	QPSK	L	1RB0	20.58	21.43	34.77	PASS
Band12	5M	QPSK	L	1RB5	20.32	21.17	34.77	PASS
Band12	5M	QPSK	L	6RB0	19.52	20.37	34.77	PASS
Band12	5M	QPSK	M	1RB0	20.36	21.21	34.77	PASS
Band12	5M	QPSK	M	1RB5	20.45	21.3	34.77	PASS
Band12	5M	QPSK	M	6RB0	19.74	20.59	34.77	PASS
Band12	5M	QPSK	H	1RB0	20.33	21.18	34.77	PASS
Band12	5M	QPSK	H	1RB5	20.52	21.37	34.77	PASS
Band12	5M	QPSK	H	6RB0	19.76	20.61	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
Band12	5MHz	QPSK	23035	6RB#0	10.28	13	PASS
Band12	5MHz	QPSK	23095	6RB#0	10.38	13	PASS
Band12	5MHz	QPSK	23155	6RB#0	10.24	13	PASS



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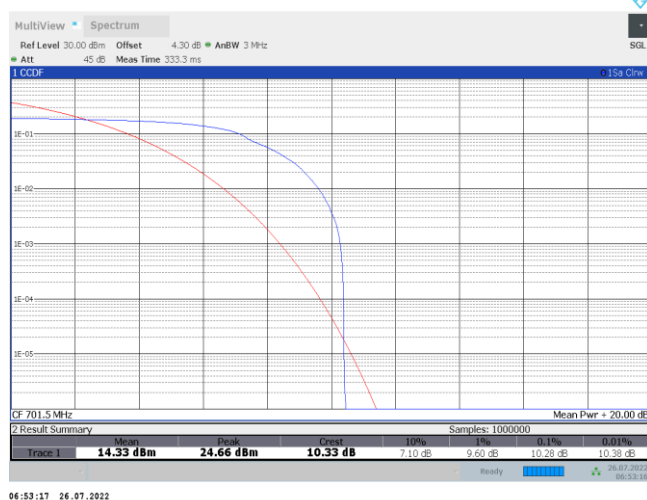
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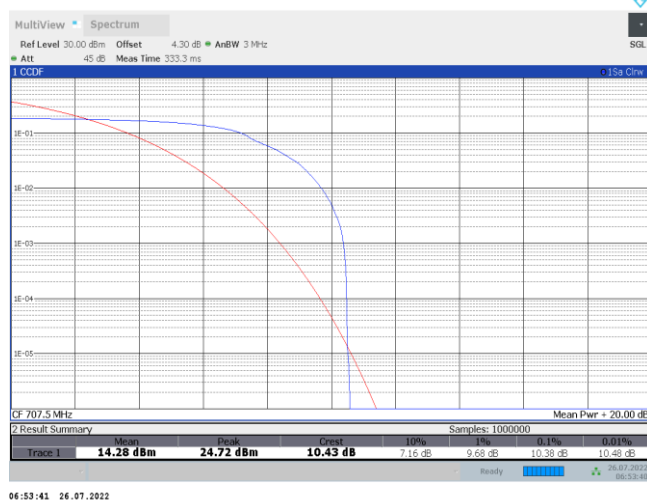
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Test Graphs

Band12-5MHz-QPSK-23035-6RB#0



Band12-5MHz-QPSK-23095-6RB#0



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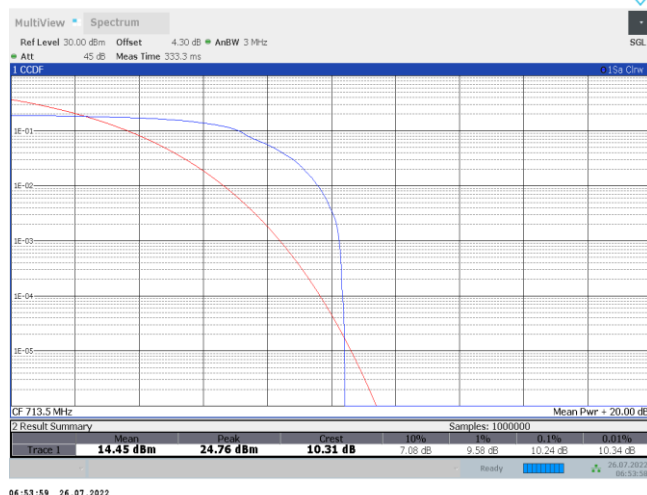
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Band12-5MHz-QPSK-23155-6RB#0



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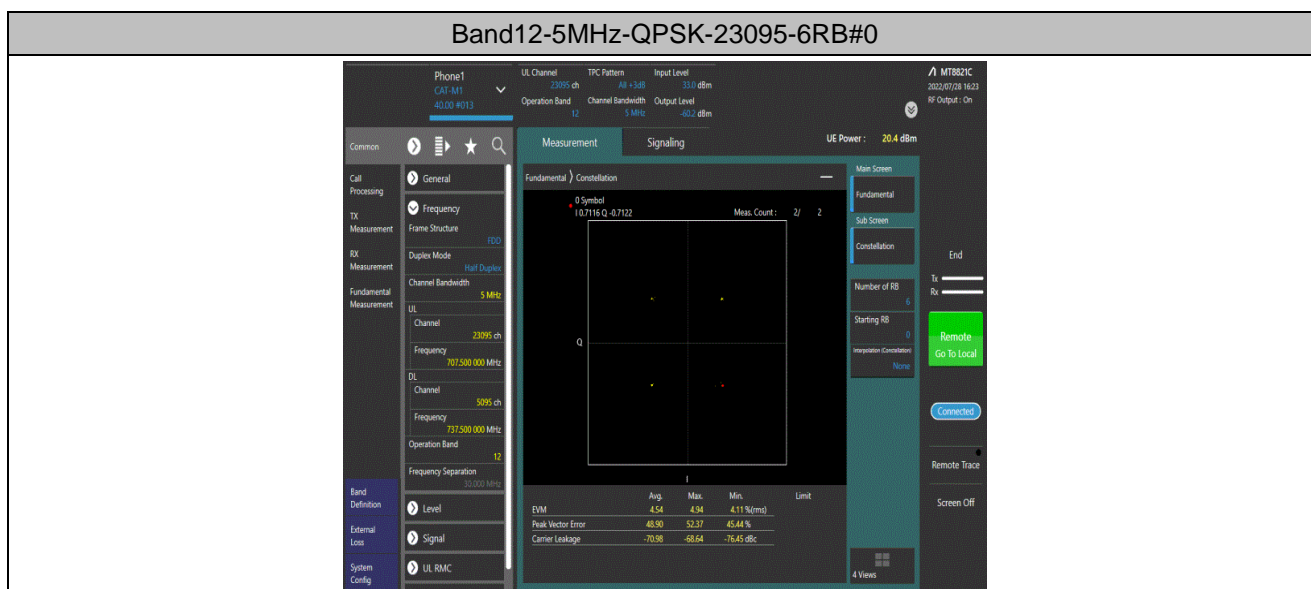
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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Verdict
Band12	5MHz	QPSK	23065	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
Band12	1.4MHz	QPSK	23017	6RB#0	1.095	1.24	PASS
Band12	1.4MHz	QPSK	23095	6RB#0	1.086	1.29	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	1.086	1.26	PASS
Band12	3MHz	QPSK	23025	6RB#0	1.084	1.19	PASS
Band12	3MHz	QPSK	23095	6RB#0	1.114	1.35	PASS
Band12	3MHz	QPSK	23165	6RB#0	1.107	1.33	PASS
Band12	5MHz	QPSK	23035	6RB#0	1.093	1.23	PASS
Band12	5MHz	QPSK	23095	6RB#0	1.127	1.42	PASS
Band12	5MHz	QPSK	23155	6RB#0	1.124	1.40	PASS



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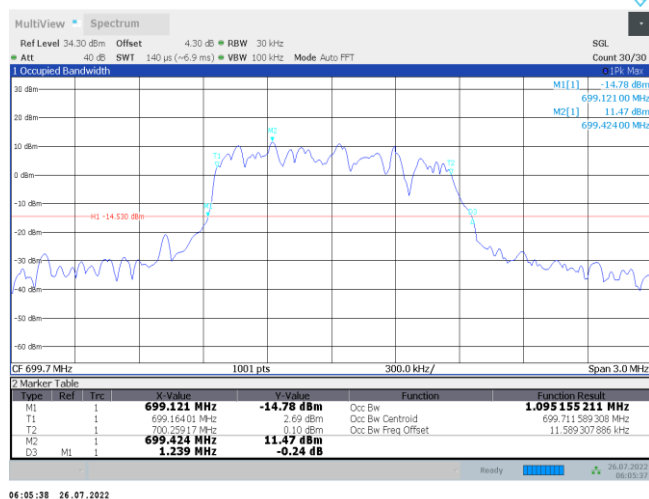
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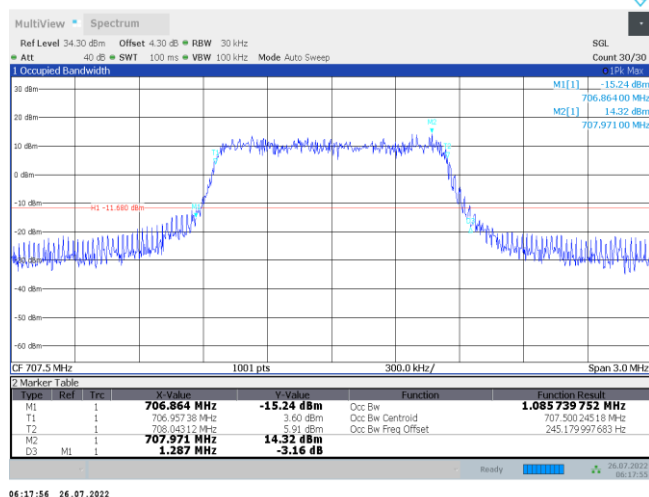
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Test Graphs

Band12-1.4MHz-QPSK-23017-6RB#0



Band12-1.4MHz-QPSK-23095-6RB#0



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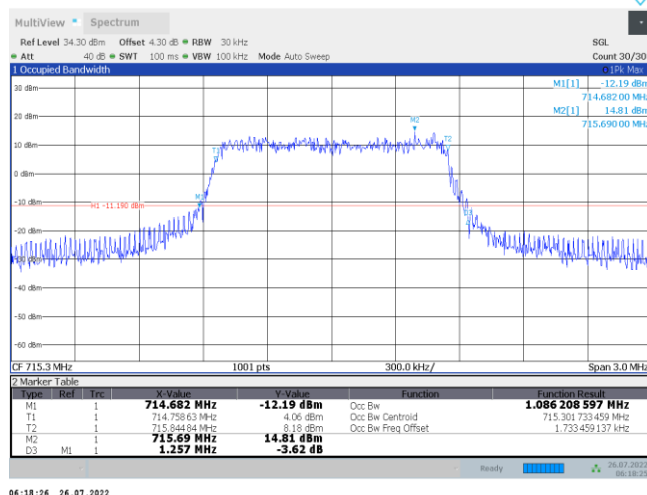
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Band12-1.4MHz-QPSK-23173-6RB#0



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Band12-3MHz-QPSK-23025-6RB#0



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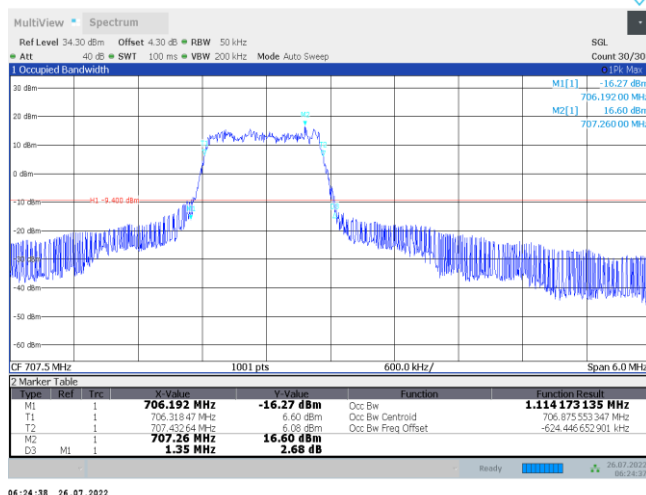
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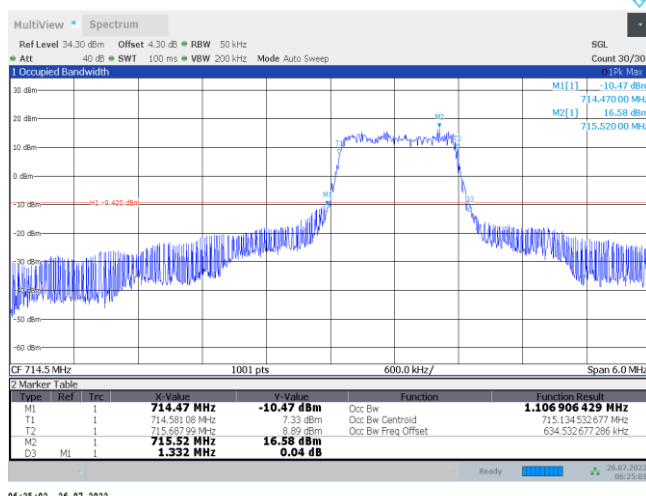
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Band12-3MHz-QPSK-23165-6RB#0



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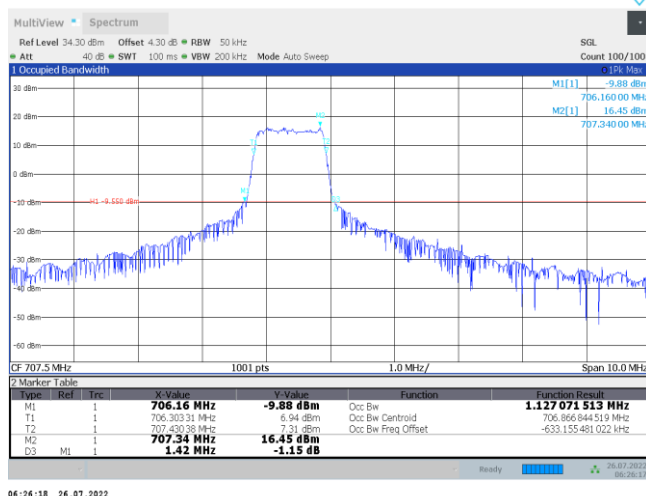
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Band12-5MHz-QPSK-23035-6RB#0



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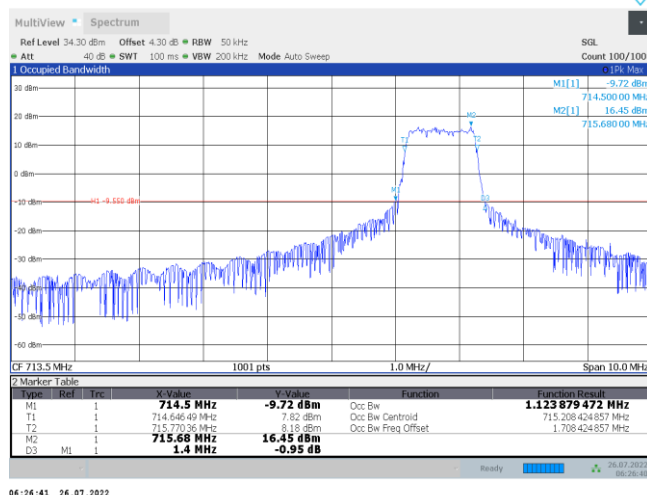
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Band12-5MHz-QPSK-23155-6RB#0



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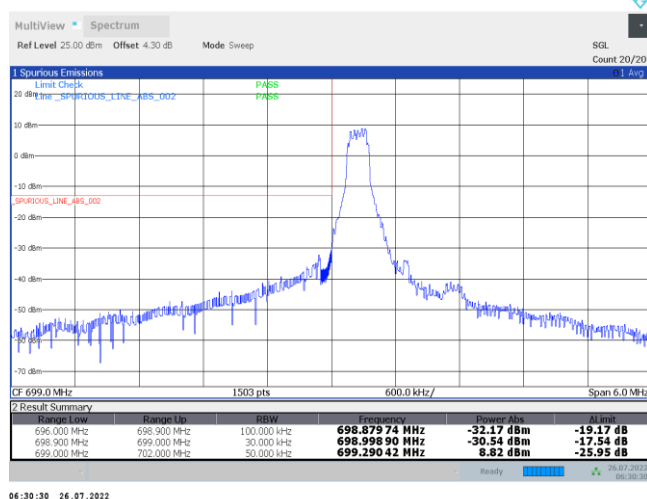
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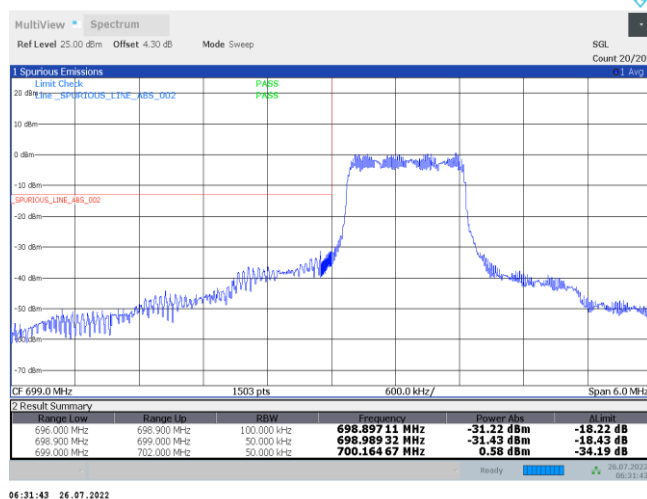
Band Edge

Test Graphs

Band12-1.4MHz-QPSK-23017-1RB#0



Band12-1.4MHz-QPSK-23017-6RB#0

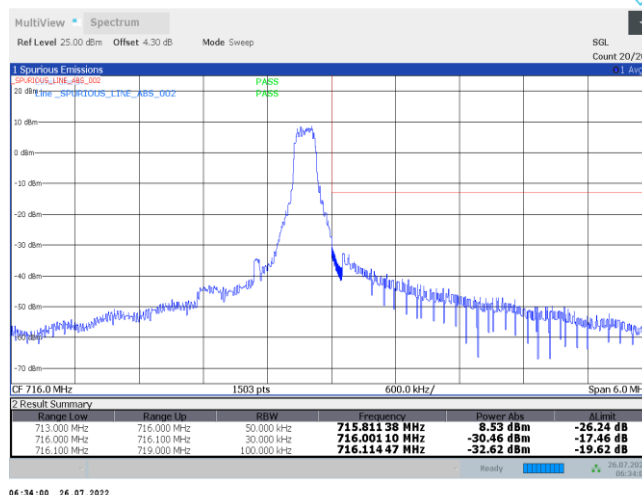


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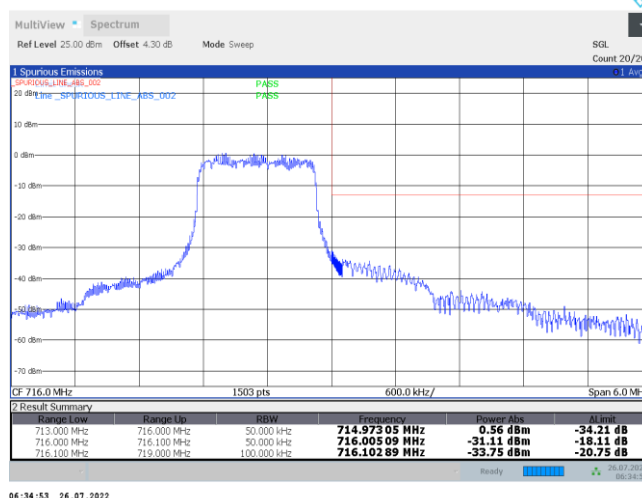
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Band12-1.4MHz-QPSK-23173-1RB#5



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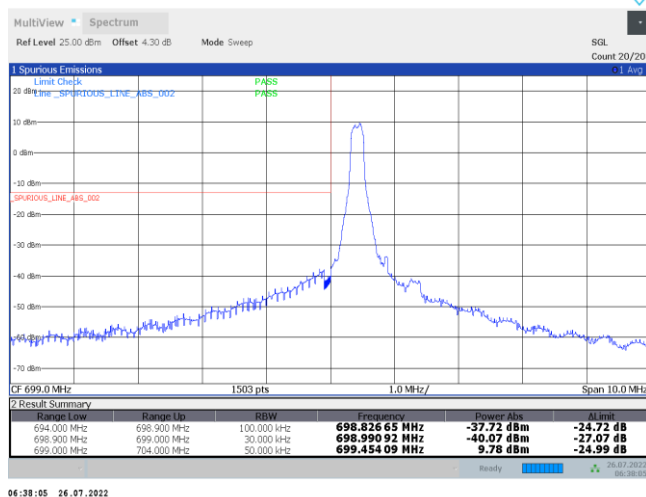
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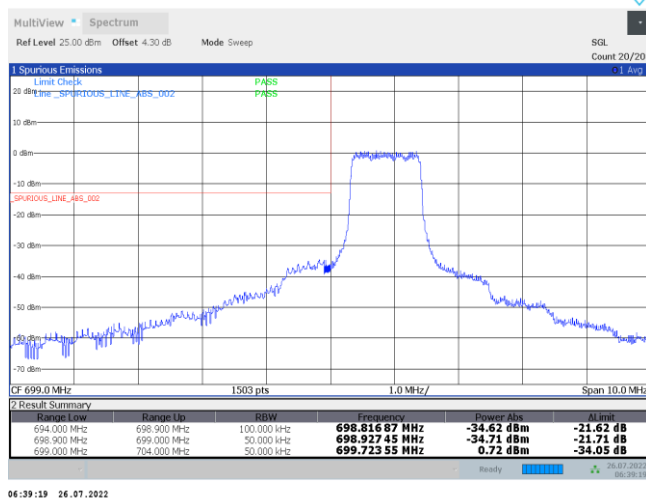
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Band12-3MHz-QPSK-23025-1RB#0



Band12-3MHz-QPSK-23025-6RB#0



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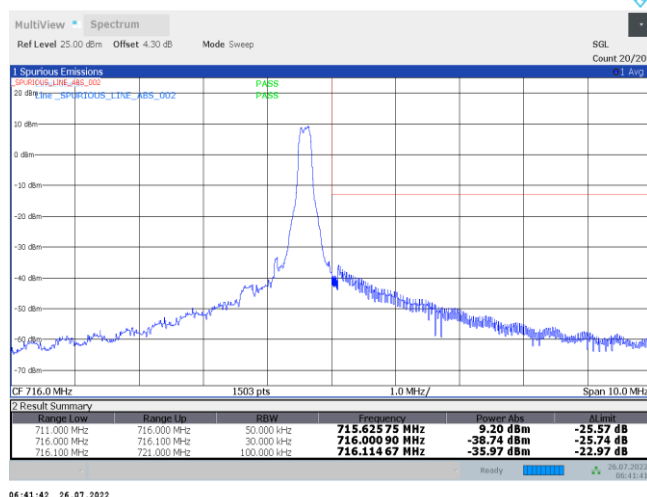
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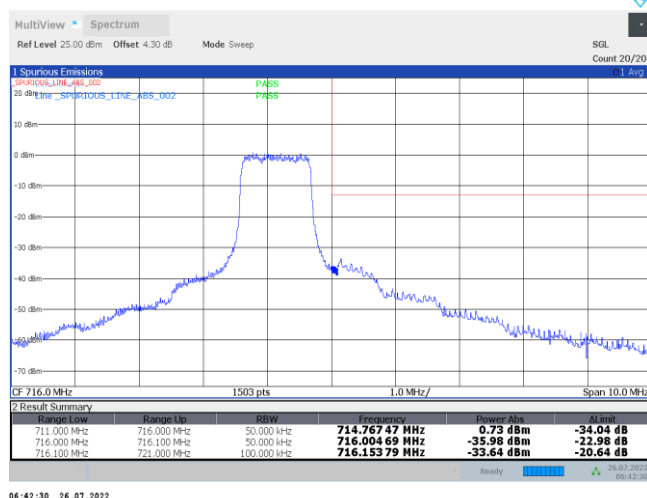
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Band12-3MHz-QPSK-23165-1RB#14



Band12-3MHz-QPSK-23165-6RB#0



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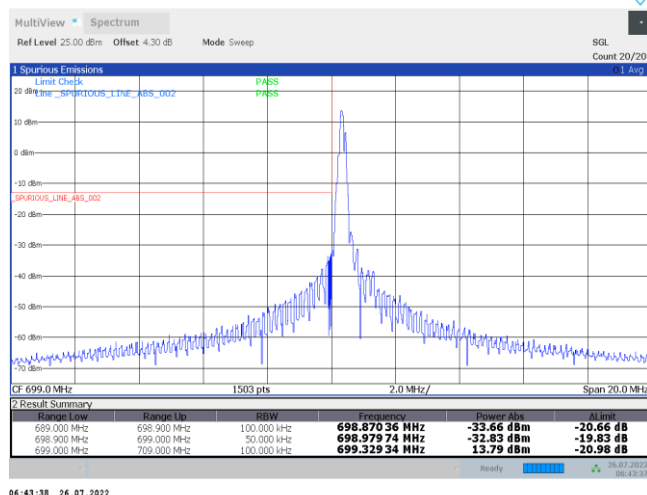
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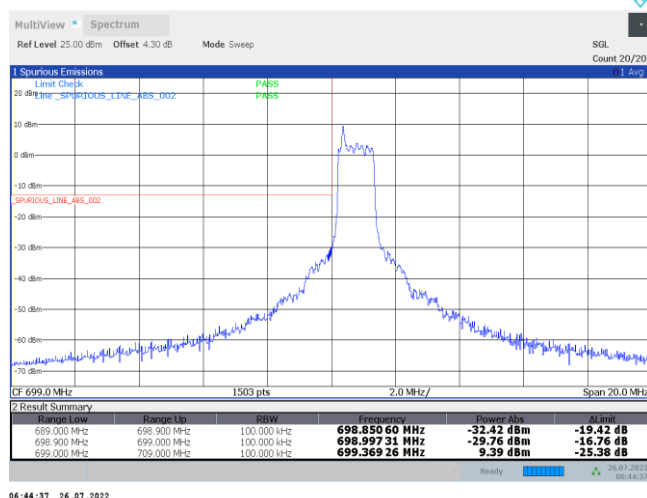
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Band12-5MHz-QPSK-23035-1RB#0



Band12-5MHz-QPSK-23035-6RB#0



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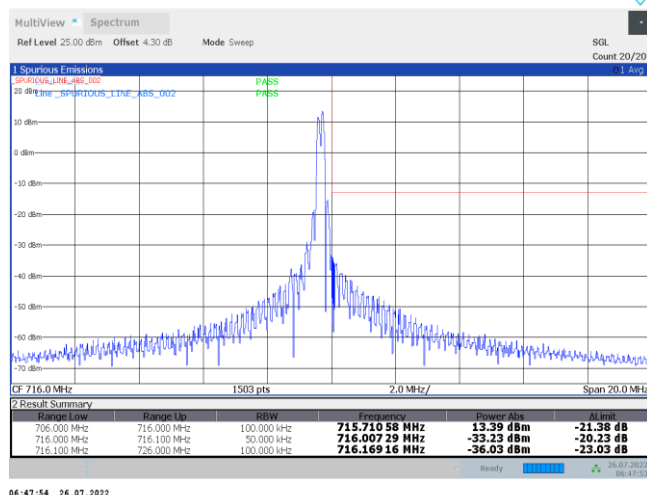
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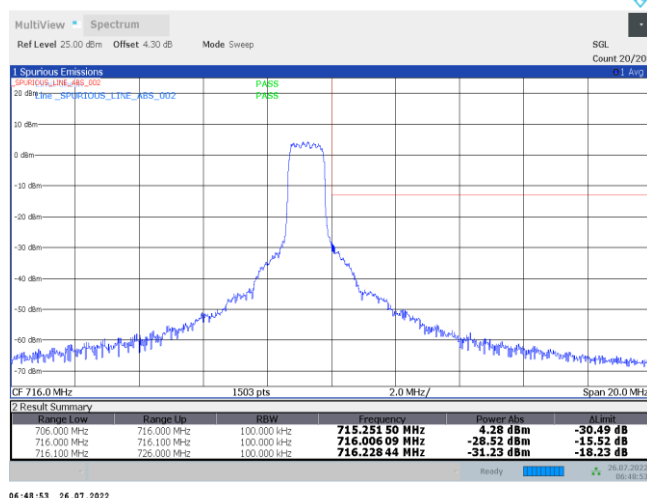
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Band12-5MHz-QPSK-23155-1RB#24



Band12-5MHz-QPSK-23155-6RB#0



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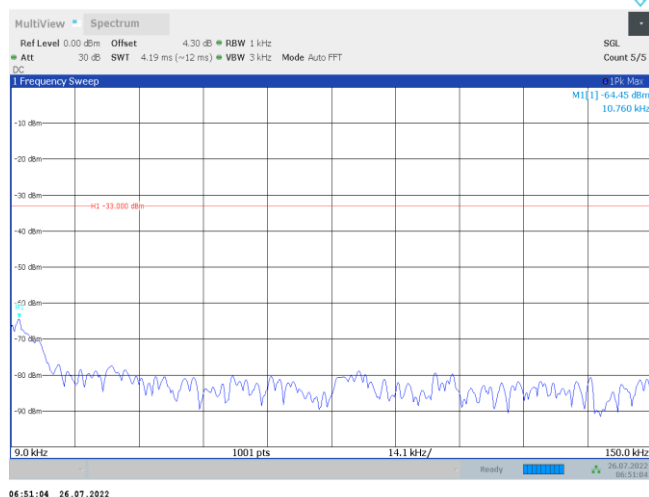
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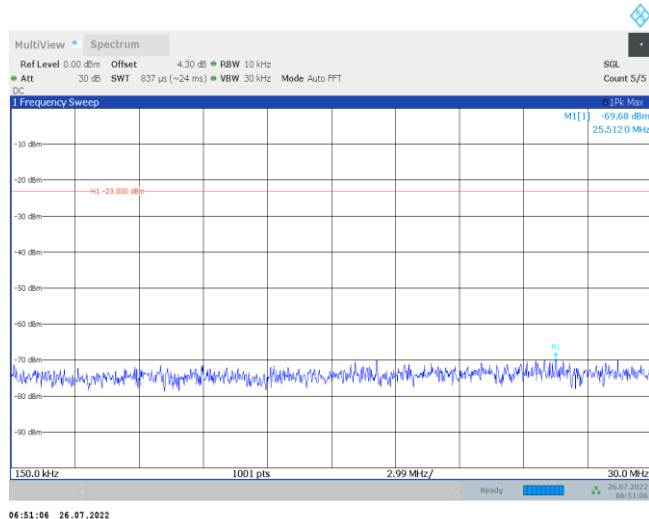
Conducted Spurious Emission

Test Graphs

Band12-10MHz-QPSK-23035-1RB#0-Range1:0.009~0.15MHz



Band12-10MHz-QPSK-23035-1RB#0-Range2:0.15~30MHz



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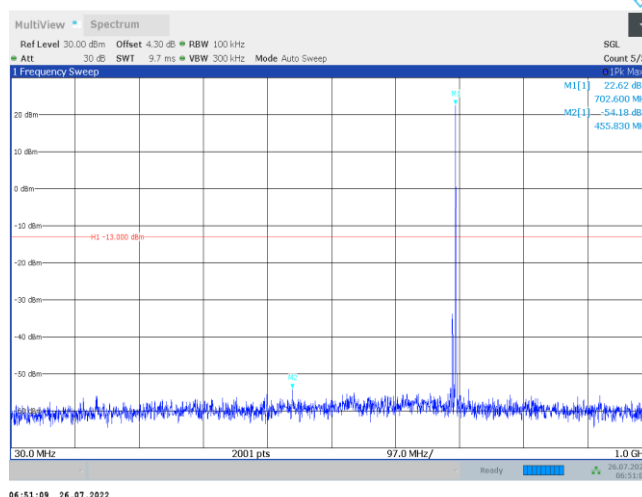
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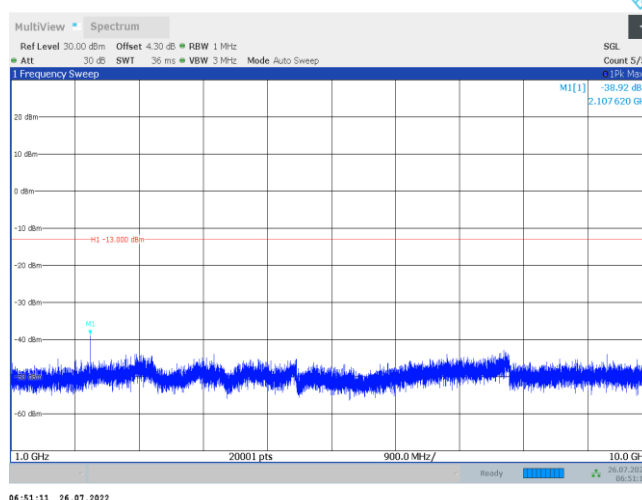
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Band12-10MHz-QPSK-23035-1RB#0-Range3:30~1000MHz



Band12-10MHz-QPSK-23035-1RB#0-Range4:1000~10000MHz



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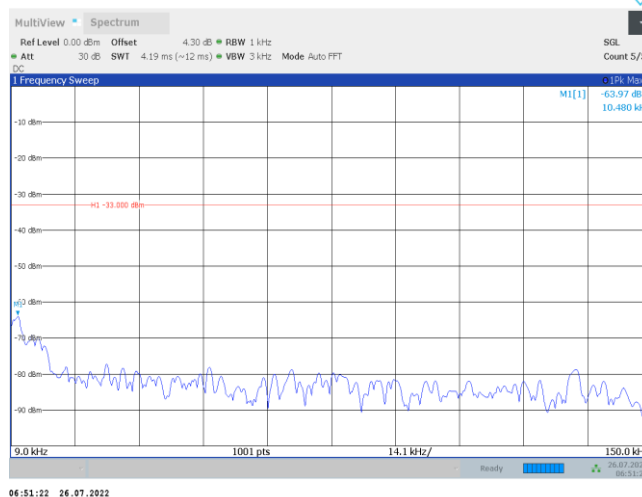
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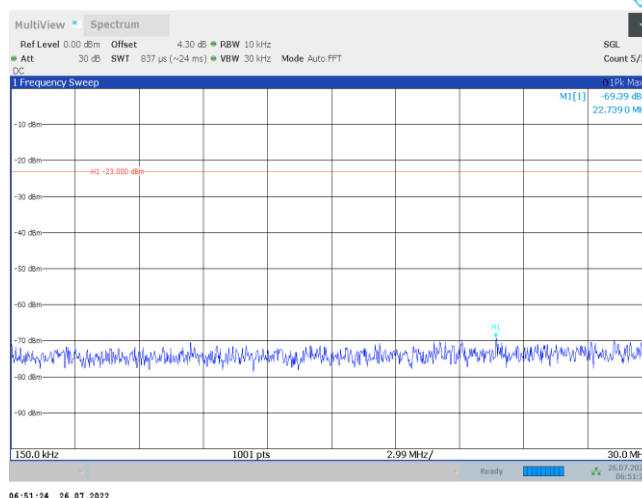
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz



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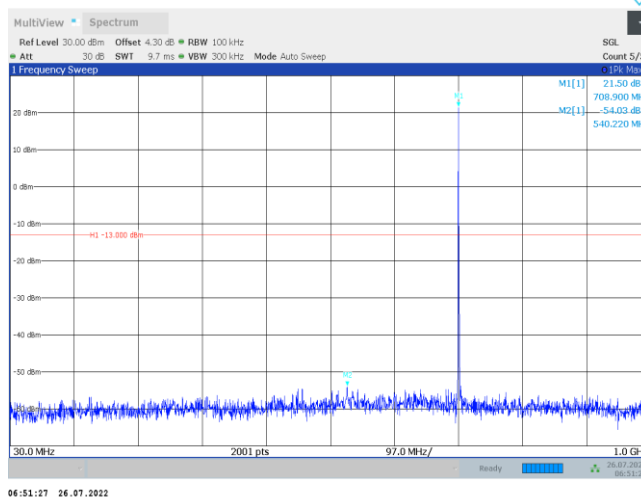
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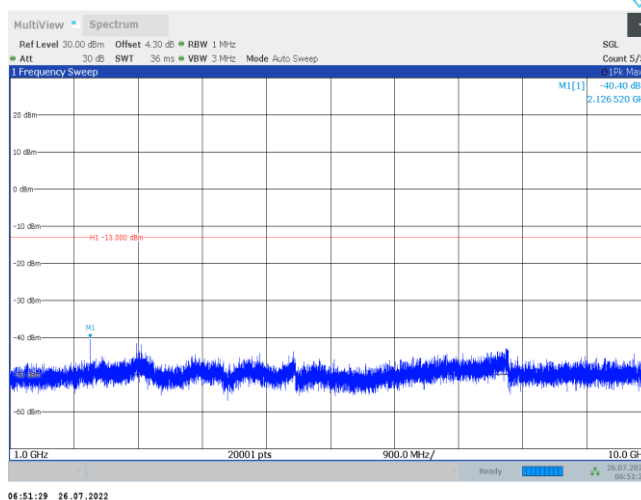
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Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz



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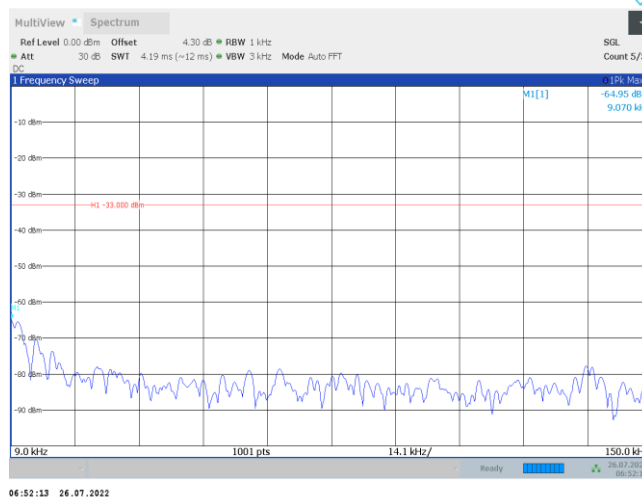
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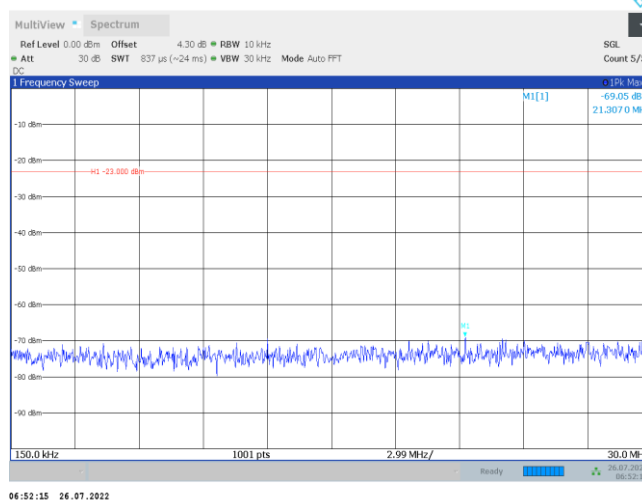
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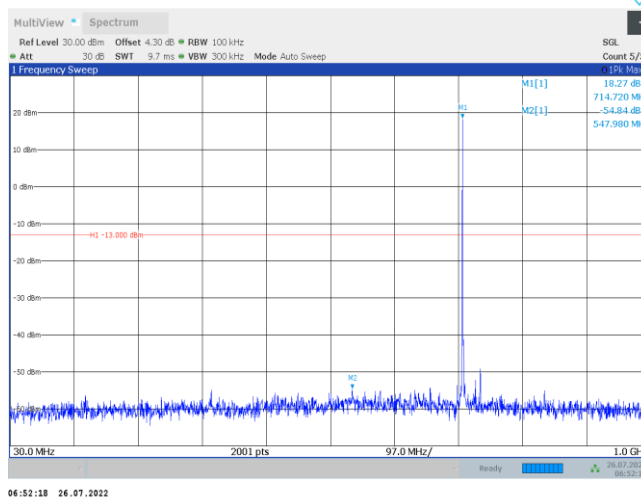
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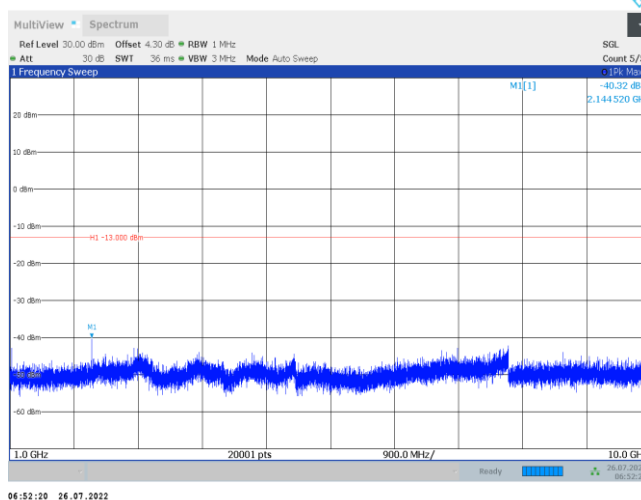
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Band12-10MHz-QPSK-23155-1RB#0-Range3:30~1000MHz



Band12-10MHz-QPSK-23155-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = CAT M1 Band 12_ 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	1399.1800	67.93	-48.00	25.62	-49.71	-13.00	36.71	162	184	Horizontal
2	2098.7700	76.70	-47.71	26.99	-39.29	-13.00	26.29	134	210	Horizontal
3	2798.3600	65.03	-46.92	28.48	-48.67	-13.00	35.67	251	198	Horizontal
4	3498.8571	60.67	-46.54	29.52	-51.61	-13.00	38.61	169	250	Horizontal
5	4197.5400	50.44	-45.96	31.10	-59.68	-13.00	46.68	185	360	Horizontal
6	4897.1300	51.20	-45.58	32.59	-57.05	-13.00	44.05	214	132	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	1399.1800	51.93	-48.00	25.62	-65.71	-13.00	52.71	169	5	Vertical
2	2099.4286	62.46	-47.71	26.99	-53.52	-13.00	40.52	174	282	Vertical
3	2799.4286	57.45	-46.92	28.48	-56.25	-13.00	43.25	215	268	Vertical
4	3497.9500	51.79	-46.54	29.52	-60.49	-13.00	47.49	158	282	Vertical
5	4197.5400	48.49	-45.96	31.10	-61.63	-13.00	48.63	256	1	Vertical
6	4897.1300	49.72	-45.58	32.59	-58.53	-13.00	45.53	237	1	Vertical



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Test Band = CAT M1 Band 12_ 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	1406.1800	64.31	-48.02	25.61	-53.36	-13.00	40.36	168	238	Horizontal
2	2109.2700	76.93	-47.71	27.02	-39.01	-13.00	26.01	154	212	Horizontal
3	2813.1429	68.04	-46.87	28.54	-45.56	-13.00	32.56	139	238	Horizontal
4	3516.5714	61.95	-46.51	29.53	-50.28	-13.00	37.28	212	264	Horizontal
5	4218.5400	50.58	-45.93	31.14	-59.47	-13.00	46.47	227	250	Horizontal
6	4921.6300	49.43	-45.63	32.66	-58.80	-13.00	45.80	251	341	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	1406.1800	53.01	-48.02	25.61	-64.66	-13.00	51.66	244	43	Vertical
2	2109.2700	63.16	-47.71	27.02	-52.78	-13.00	39.78	216	309	Vertical
3	2812.3600	53.65	-46.88	28.53	-59.95	-13.00	46.95	257	255	Vertical
4	3515.4500	51.25	-46.51	29.53	-60.98	-13.00	47.98	231	297	Vertical
5	4218.5400	49.07	-45.93	31.14	-60.98	-13.00	47.98	164	0	Vertical
6	4921.6300	49.96	-45.63	32.66	-58.27	-13.00	45.27	179	2	Vertical



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Test Band = CAT M1 Band 12_ 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	1413.1429	62.60	-48.04	25.60	-55.10	-13.00	42.10	168	210	Horizontal
2	2119.7700	74.60	-47.70	27.06	-41.30	-13.00	28.30	158	197	Horizontal
3	2826.3600	66.27	-46.83	28.60	-47.22	-13.00	34.22	216	210	Horizontal
4	3533.7143	58.90	-46.47	29.55	-53.28	-13.00	40.28	150	250	Horizontal
5	4239.5400	50.28	-45.89	31.18	-59.69	-13.00	46.69	229	51	Horizontal
6	4946.1300	50.28	-45.69	32.73	-57.94	-13.00	44.94	251	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	1413.1800	52.32	-48.04	25.60	-65.38	-13.00	52.38	164	176	Vertical
2	2119.7700	63.56	-47.70	27.06	-52.34	-13.00	39.34	152	242	Vertical
3	2826.3600	52.88	-46.83	28.60	-60.61	-13.00	47.61	261	10	Vertical
4	3532.9500	51.01	-46.47	29.55	-61.17	-13.00	48.17	239	230	Vertical
5	4239.5400	49.04	-45.89	31.18	-60.93	-13.00	47.93	228	164	Vertical
6	4946.1300	50.27	-45.69	32.73	-57.95	-13.00	44.95	246	17	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
Band12	5MHz	QPSK	23095	6RB#0	VL	NT	-3.10	-0.004382	PASS
Band12	5MHz	QPSK	23095	6RB#0	VN	NT	1.60	0.002261	PASS
Band12	5MHz	QPSK	23095	6RB#0	VH	NT	-3.10	-0.004382	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	5MHz	QPSK	23095	6RB#0	NV	-30	4.70	0.006643	PASS
Band12	5MHz	QPSK	23095	6RB#0	NV	-20	-0.30	-0.000424	PASS
Band12	5MHz	QPSK	23095	6RB#0	NV	-10	3.20	0.004523	PASS
Band12	5MHz	QPSK	23095	6RB#0	NV	0	-3.30	-0.004664	PASS
Band12	5MHz	QPSK	23095	6RB#0	NV	10	-3.40	-0.004806	PASS
Band12	5MHz	QPSK	23095	6RB#0	NV	20	-0.80	-0.001131	PASS
Band12	5MHz	QPSK	23095	6RB#0	NV	30	3.10	0.004382	PASS
Band12	5MHz	QPSK	23095	6RB#0	NV	40	0.10	0.000141	PASS
Band12	5MHz	QPSK	23095	6RB#0	NV	50	-1.60	-0.002261	PASS

---End of Attachment---



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