

Report No.: SEWM2207000119RG01
Rev.: 01
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Appendix B.10

LTE Cat-M1 Band26(824-849)



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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
Band26	1.4M	QPSK	L	1RB0	20.32	21.17	38.45	PASS
Band26	1.4M	QPSK	L	1RB5	20.14	20.99	38.45	PASS
Band26	1.4M	QPSK	L	6RB0	19.23	20.08	38.45	PASS
Band26	1.4M	QPSK	M	1RB0	20.32	21.17	38.45	PASS
Band26	1.4M	QPSK	M	1RB5	20.41	21.26	38.45	PASS
Band26	1.4M	QPSK	M	6RB0	19.41	20.26	38.45	PASS
Band26	1.4M	QPSK	H	1RB0	20.36	21.21	38.45	PASS
Band26	1.4M	QPSK	H	1RB5	20.54	21.39	38.45	PASS
Band26	1.4M	QPSK	H	6RB0	18.99	19.84	38.45	PASS
Band26	3M	QPSK	L	1RB0	20.41	21.26	38.45	PASS
Band26	3M	QPSK	L	1RB5	20.64	21.49	38.45	PASS
Band26	3M	QPSK	L	6RB0	19.51	20.36	38.45	PASS
Band26	3M	QPSK	M	1RB0	20.32	21.17	38.45	PASS
Band26	3M	QPSK	M	1RB5	20.41	21.26	38.45	PASS
Band26	3M	QPSK	M	6RB0	19.63	20.48	38.45	PASS
Band26	3M	QPSK	H	1RB0	20.74	21.59	38.45	PASS
Band26	3M	QPSK	H	1RB5	20.43	21.28	38.45	PASS
Band26	3M	QPSK	H	6RB0	19.54	20.39	38.45	PASS
Band26	5M	QPSK	L	1RB0	20.43	21.28	38.45	PASS
Band26	5M	QPSK	L	1RB5	20.54	21.39	38.45	PASS
Band26	5M	QPSK	L	6RB0	19.75	20.6	38.45	PASS
Band26	5M	QPSK	M	1RB0	20.63	21.48	38.45	PASS
Band26	5M	QPSK	M	1RB5	20.45	21.3	38.45	PASS
Band26	5M	QPSK	M	6RB0	19.77	20.62	38.45	PASS
Band26	5M	QPSK	H	1RB0	20.32	21.17	38.45	PASS
Band26	5M	QPSK	H	1RB5	20.41	21.26	38.45	PASS
Band26	5M	QPSK	H	6RB0	19.56	20.41	38.45	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band26	5MHz	QPSK	26815	6RB#0	8.88	13	PASS
Band26	5MHz	QPSK	26915	6RB#0	8.82	13	PASS
Band26	5MHz	QPSK	27015	6RB#0	8.74	13	PASS



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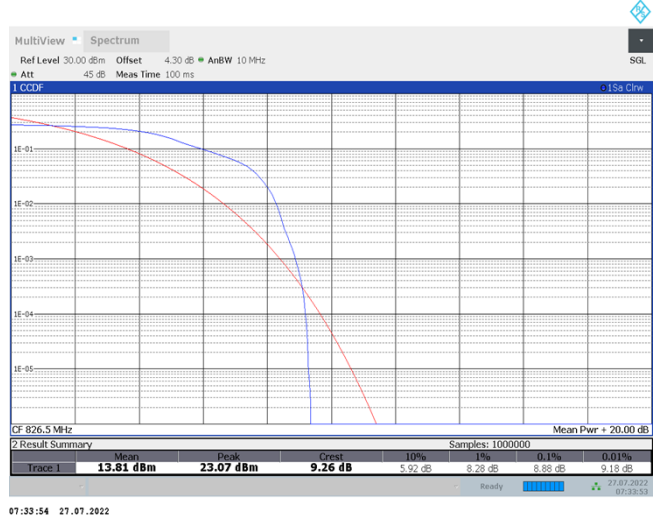
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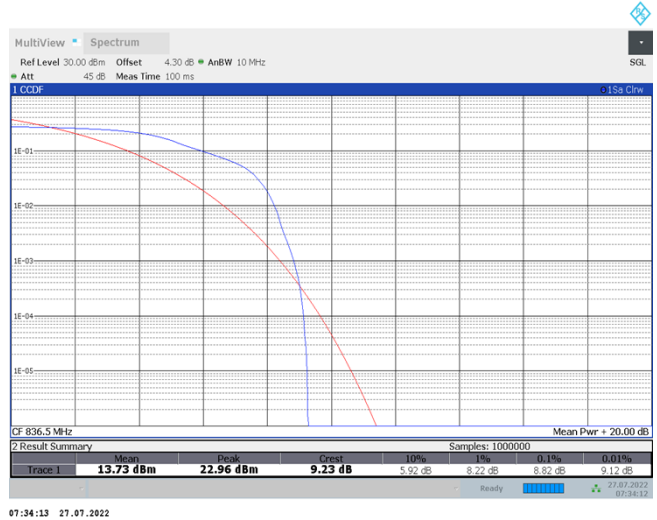
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Test Graphs

Band26-5MHz-QPSK-26815-6RB#0



Band26-5MHz-QPSK-26915-6RB#0

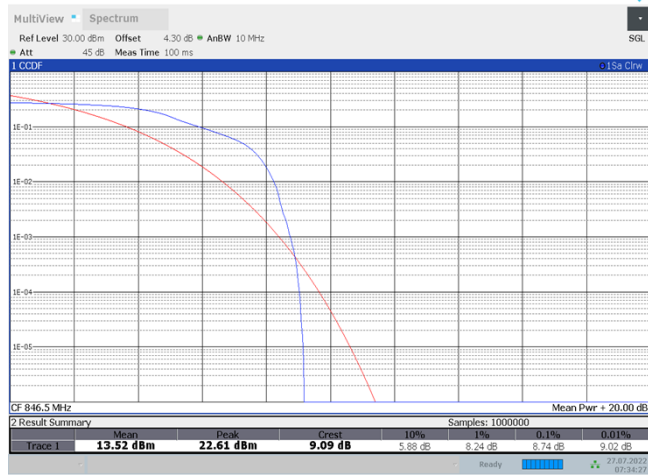


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Band26-5MHz-QPSK-27015-6RB#0



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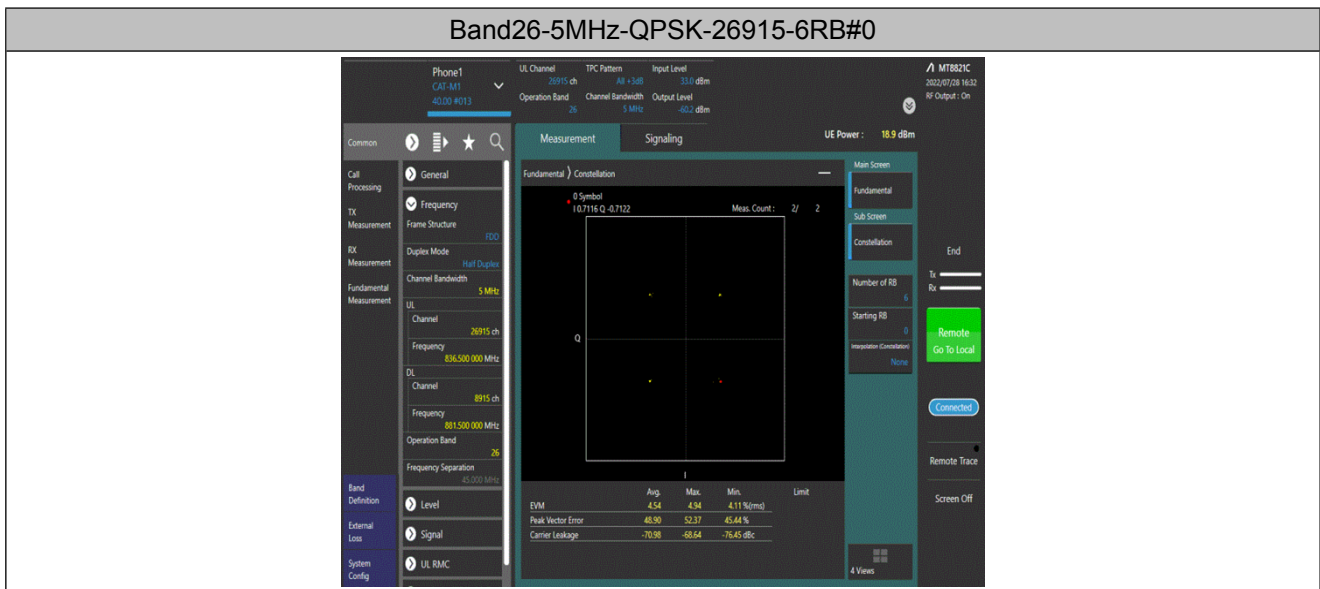
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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band26	5MHz	QPSK	26915	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
Band26	1.4MHz	QPSK	26797	6RB#0	1.093	1.26	PASS
Band26	1.4MHz	QPSK	26915	6RB#0	1.09	1.26	PASS
Band26	1.4MHz	QPSK	27033	6RB#0	1.091	1.26	PASS
Band26	3MHz	QPSK	26805	6RB#0	1.134	1.33	PASS
Band26	3MHz	QPSK	26915	6RB#0	1.114	1.38	PASS
Band26	3MHz	QPSK	27025	6RB#0	1.111	1.38	PASS
Band26	5MHz	QPSK	26815	6RB#0	1.102	1.29	PASS
Band26	5MHz	QPSK	26915	6RB#0	1.14	1.43	PASS
Band26	5MHz	QPSK	27015	6RB#0	1.13	1.41	PASS



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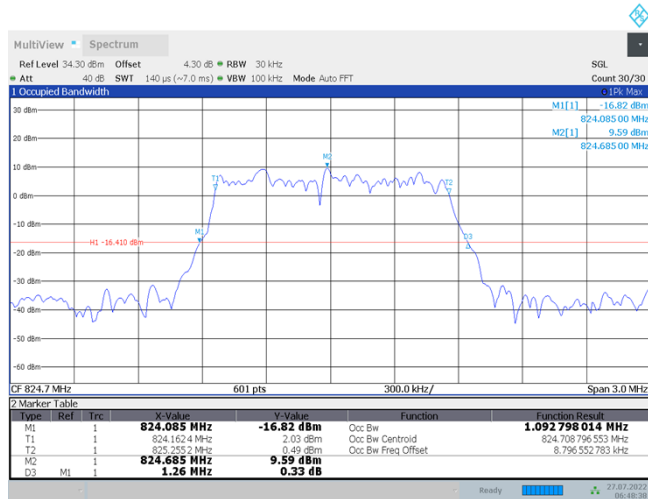
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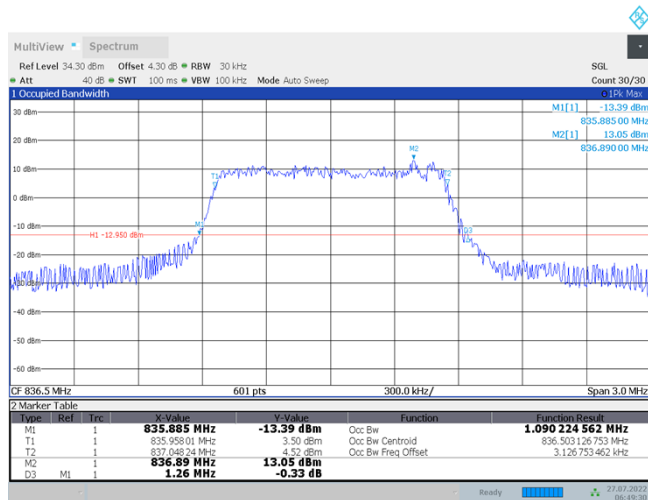
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Test Graphs

Band26-1.4MHz-QPSK-26797-6RB#0



Band26-1.4MHz-QPSK-26915-6RB#0

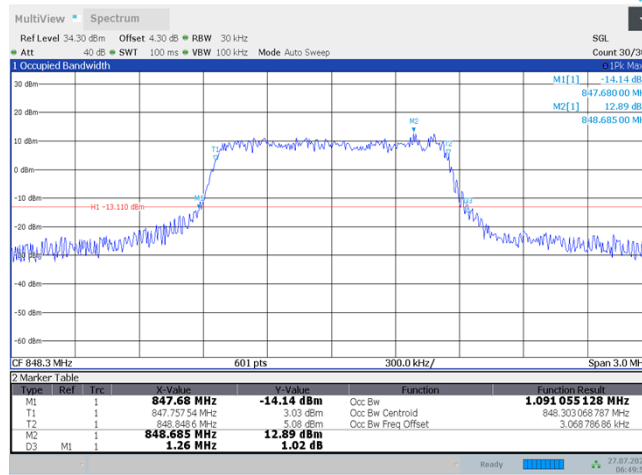


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Band26-1.4MHz-QPSK-27033-6RB#0



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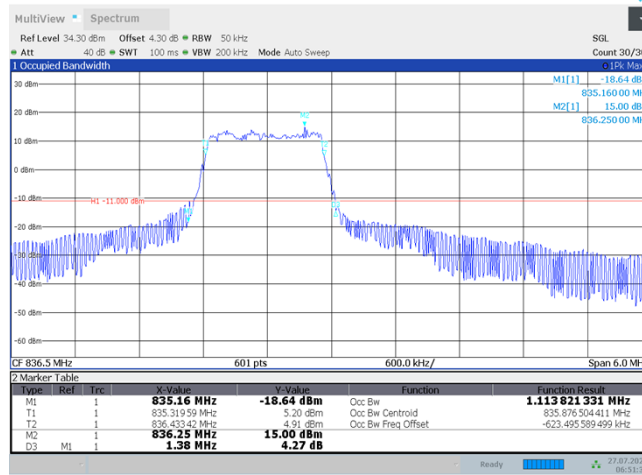


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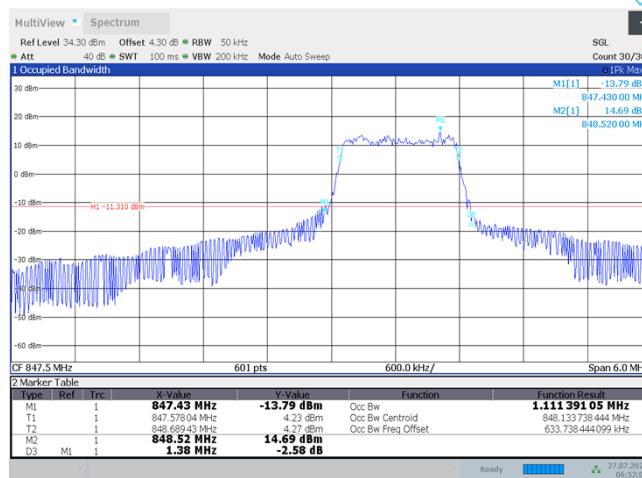
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Band26-3MHz-QPSK-26915-6RB#0



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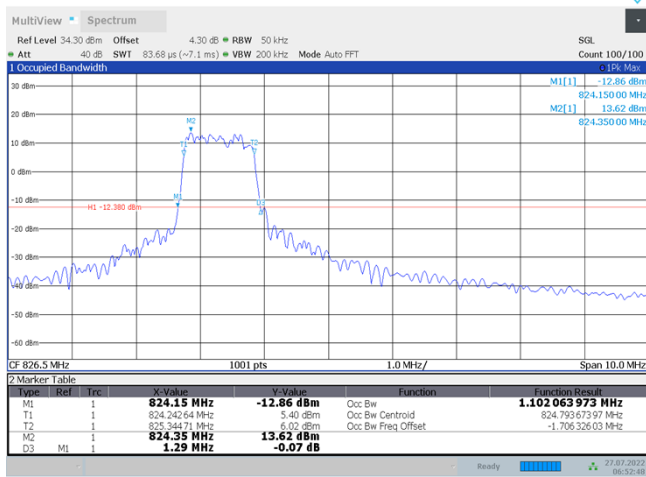
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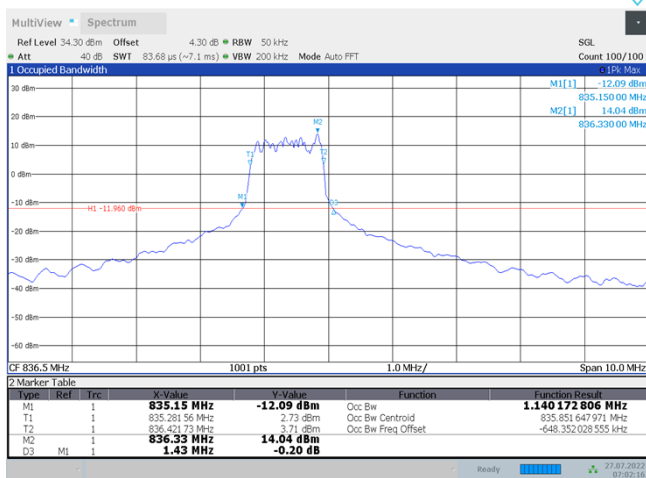
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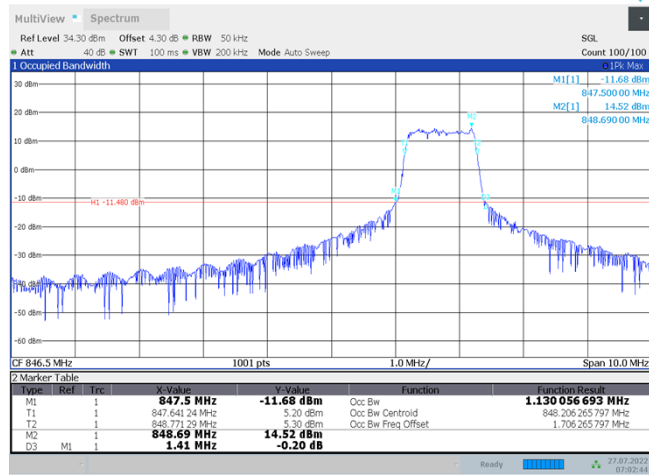


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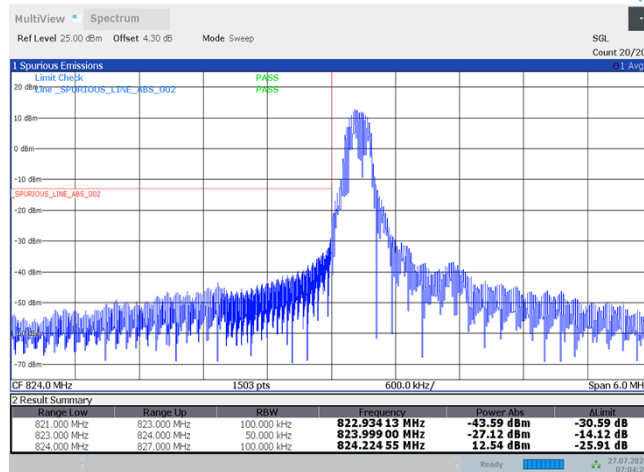
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Band Edge

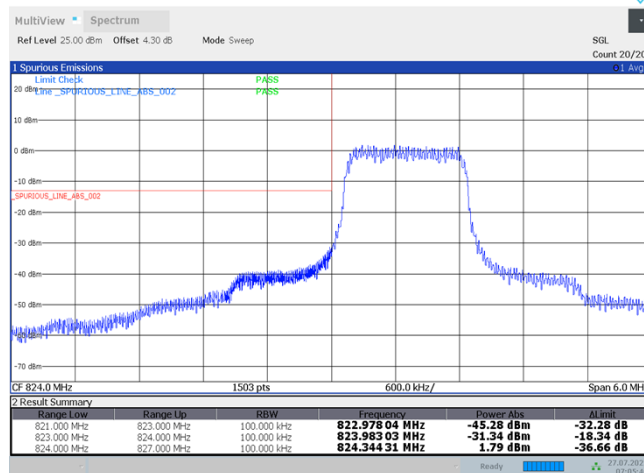
Test Graphs

Band26-1.4MHz-QPSK-26797-1RB#0



07:04:29 27.07.2022

Band26-1.4MHz-QPSK-26797-6RB#0



07:05:47 27.07.2022



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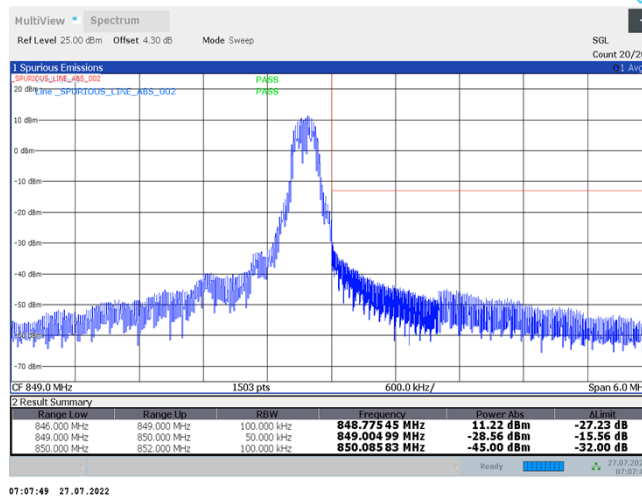
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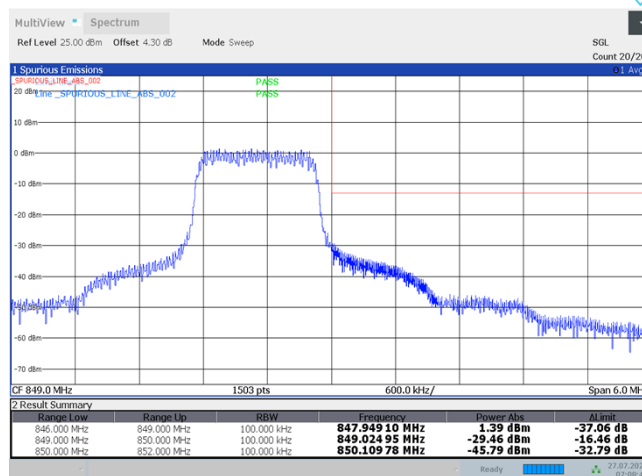
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Band26-1.4MHz-QPSK-27033-1RB#5



07:07:49 27.07.2022

Band26-1.4MHz-QPSK-27033-6RB#0



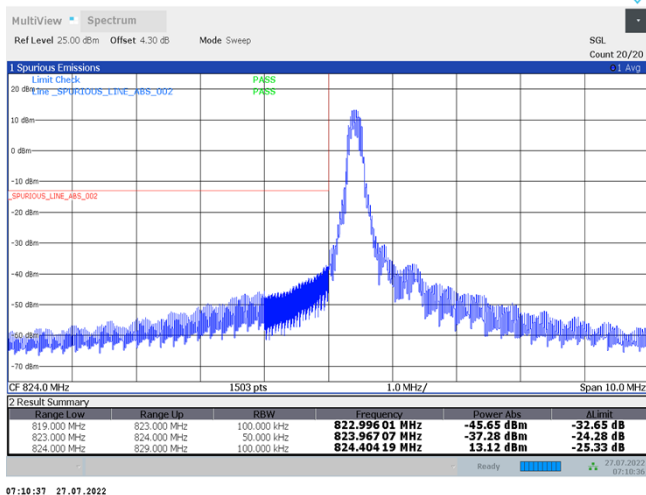
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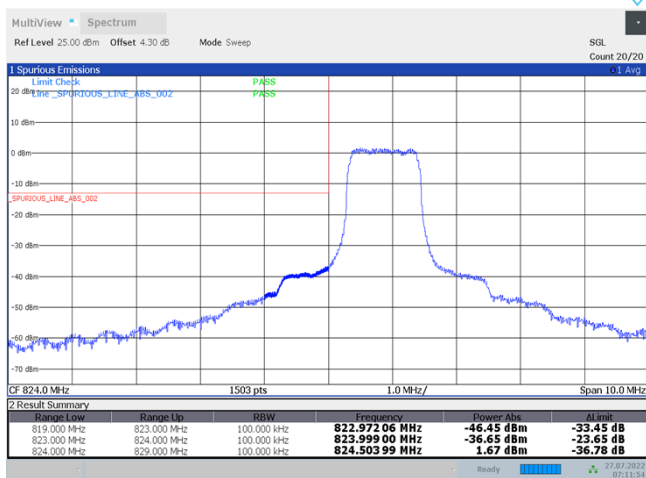
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Band26-3MHz-QPSK-26805-1RB#0



07:10:37 27.07.2022

Band26-3MHz-QPSK-26805-6RB#0

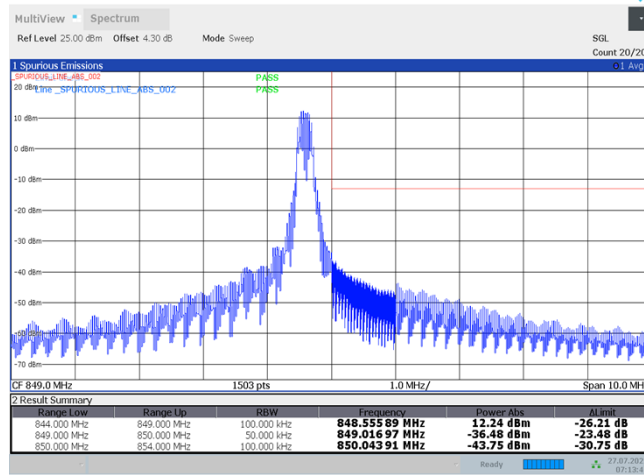


07:11:55 27.07.2022



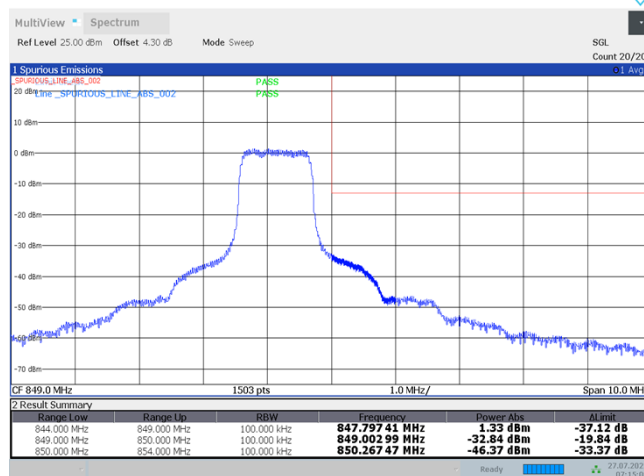
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Band26-3MHz-QPSK-27025-1RB#14



07:13:42 27.07.2022

Band26-3MHz-QPSK-27025-6RB#0



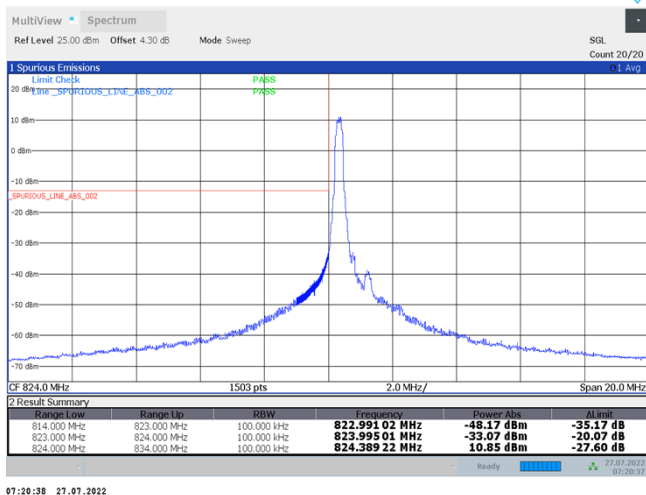
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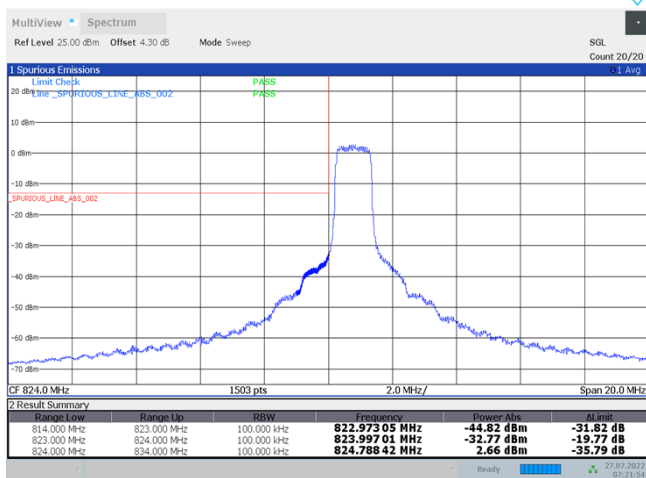
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Band26-5MHz-QPSK-26815-1RB#0



07:20:38 27.07.2022

Band26-5MHz-QPSK-26815-6RB#0

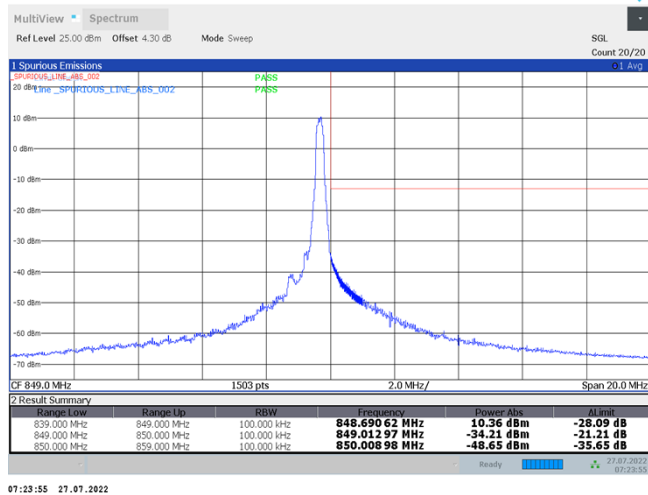


07:21:54 27.07.2022



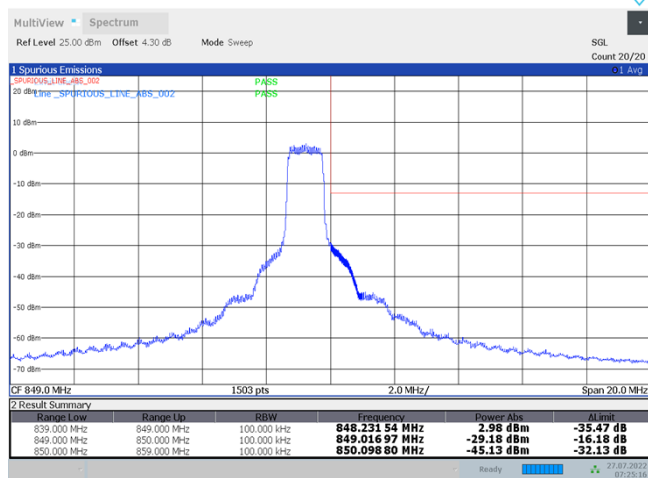
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Band26-5MHz-QPSK-27015-1RB#24



07:23:55 27.07.2022

Band26-5MHz-QPSK-27015-6RB#0



07:25:17 27.07.2022

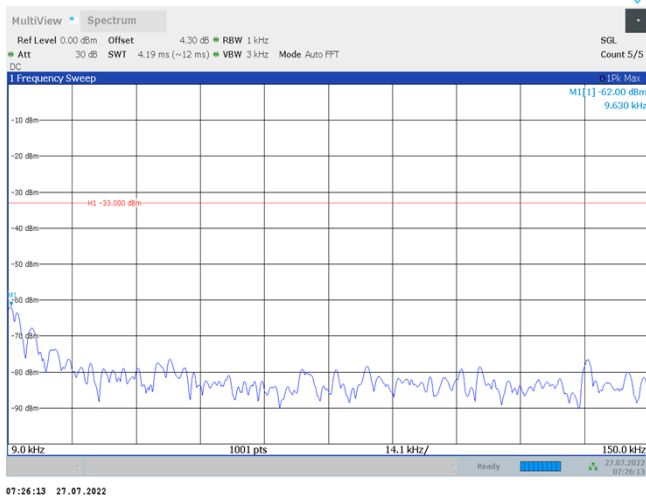


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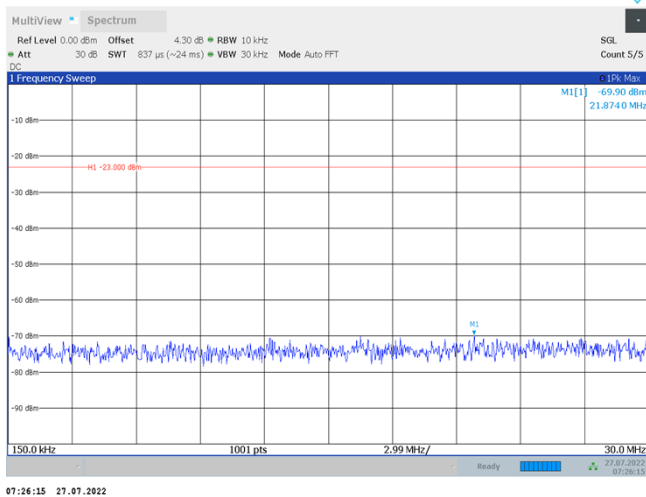
Conducted Spurious Emission

Test Graphs

Band26-5MHz-QPSK-26815-1RB#0-Range1:0.009~0.5MHz

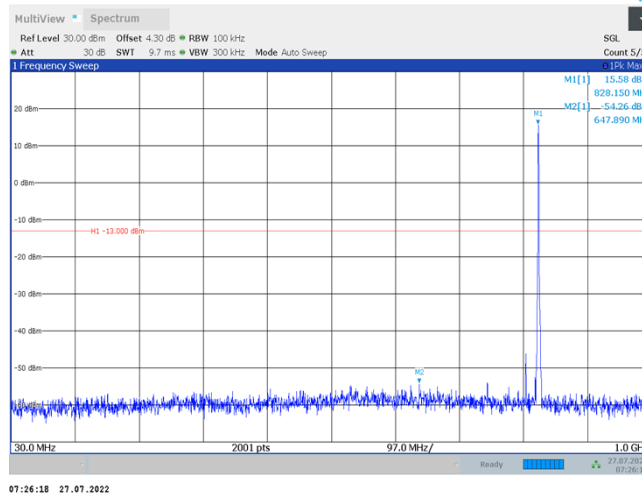


Band26-5MHz-QPSK-26815-1RB#0-Range2:0.15~30MHz



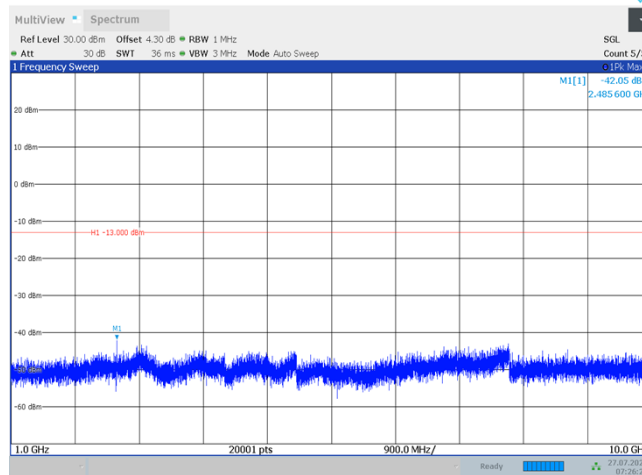
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Band26-5MHz-QPSK-26815-1RB#0-Range3:30~1000MHz



07:26:18 27.07.2022

Band26-5MHz-QPSK-26815-1RB#0-Range4:1000~10000MHz

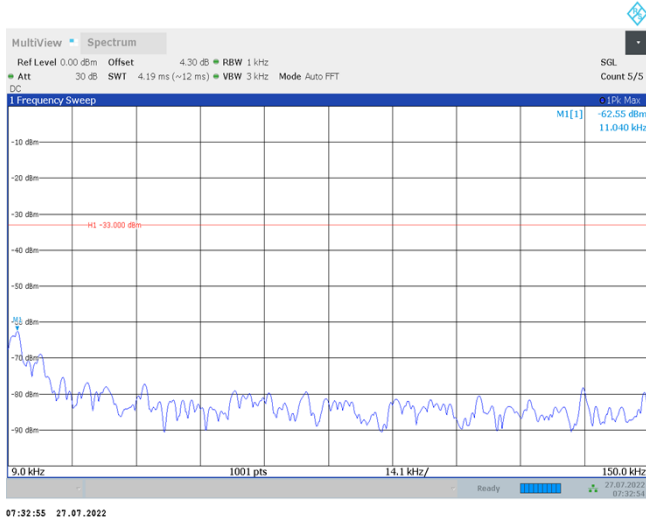


07:26:20 27.07.2022



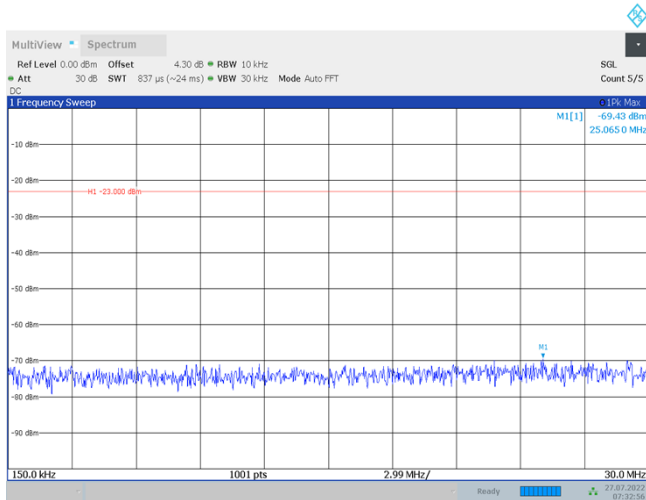
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Band26-5MHz-QPSK-26915-1RB#0-Range1:0.009~0.5MHz



07:32:55 27.07.2022

Band26-5MHz-QPSK-26915-1RB#0-Range2:0.15~30MHz

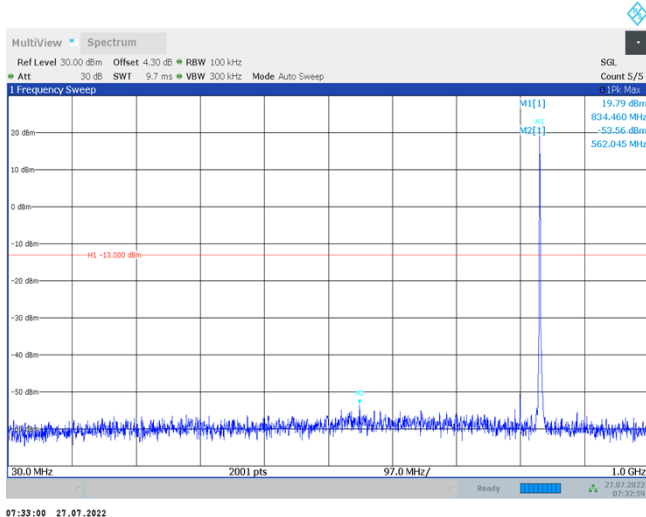


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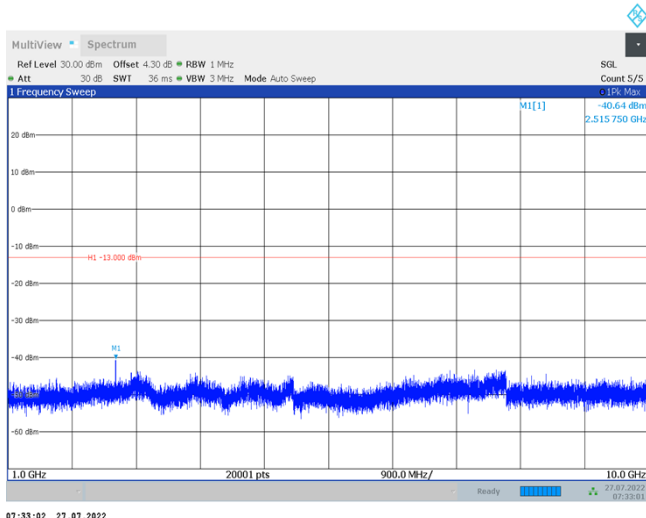


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Band26-5MHz-QPSK-26915-1RB#0-Range3:30~1000MHz

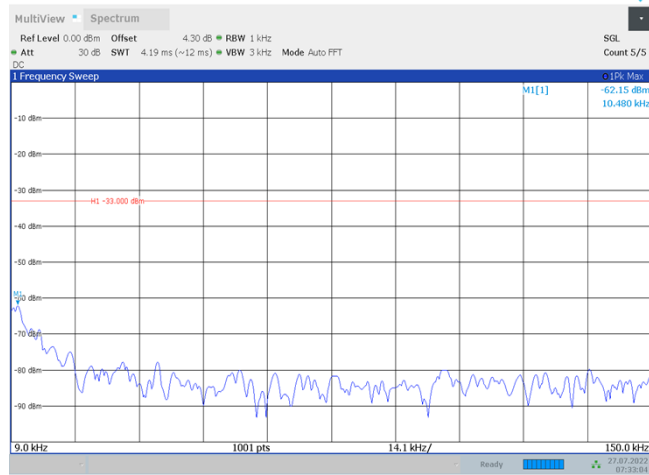


Band26-5MHz-QPSK-26915-1RB#0-Range4:1000~10000MHz



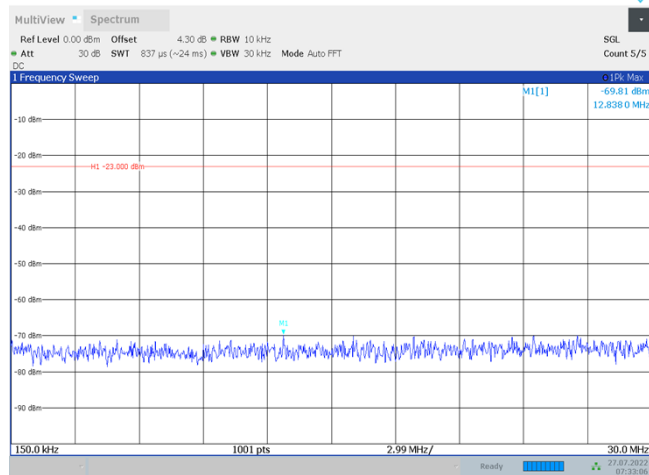
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Band26-5MHz-QPSK-27015-1RB#0-Range1:0.009~0.5MHz



07:33:04 27.07.2022

Band26-5MHz-QPSK-27015-1RB#0-Range2:0.15~30MHz



07:33:06 27.07.2022

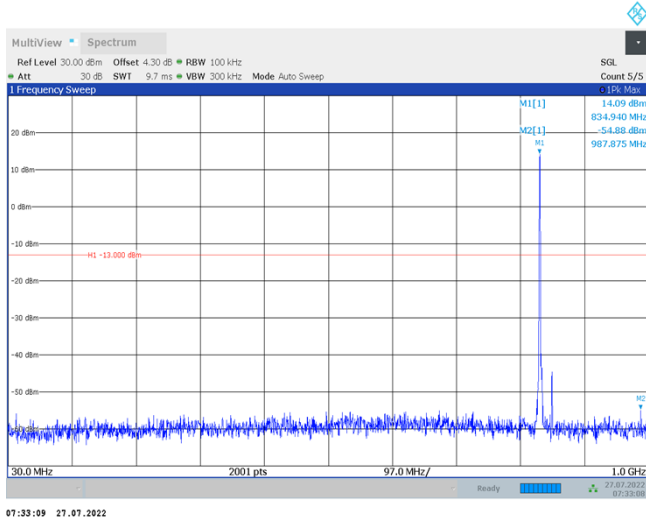


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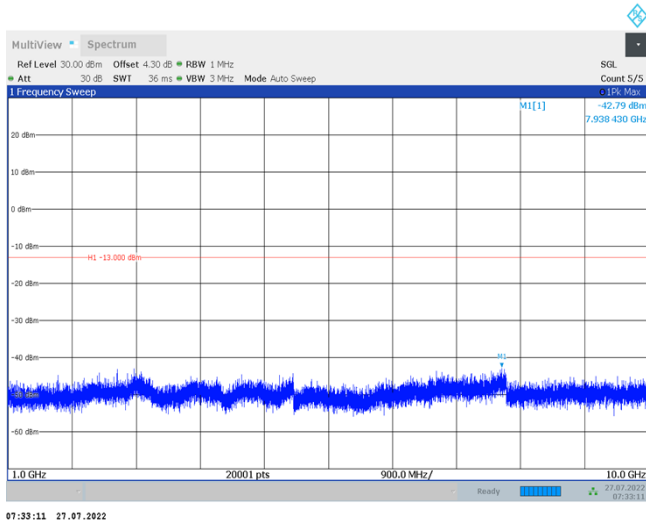
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Band26-5MHz-QPSK-27015-1RB#0-Range3:30~1000MHz



Band26-5MHz-QPSK-27015-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = CAT M1 Band 26_ 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	1649.6800	65.58	-48.22	25.37	-52.53	-13.00	39.53	157	226	Horizontal
2	2474.5200	74.76	-47.32	27.69	-40.13	-13.00	27.13	215	213	Horizontal
3	3299.3600	53.53	-46.68	29.56	-58.85	-13.00	45.85	269	332	Horizontal
4	4124.2000	52.23	-45.91	30.99	-57.96	-13.00	44.96	194	173	Horizontal
5	4949.0400	50.09	-45.69	32.74	-58.13	-13.00	45.13	251	319	Horizontal
6	5773.8800	48.61	-44.64	33.66	-57.63	-13.00	44.63	167	13	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	1649.6800	55.53	-48.22	25.37	-62.58	-13.00	49.58	214	187	Vertical
2	2474.5200	62.32	-47.32	27.69	-52.57	-13.00	39.57	225	133	Vertical
3	3299.3600	51.89	-46.68	29.56	-60.49	-13.00	47.49	186	146	Vertical
4	4124.2000	49.09	-45.91	30.99	-61.10	-13.00	48.10	172	94	Vertical
5	4949.0400	49.96	-45.69	32.74	-58.26	-13.00	45.26	263	8	Vertical
6	5773.8800	49.50	-44.64	33.66	-56.74	-13.00	43.74	254	160	Vertical



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Test Band = CAT M1 Band 26_ 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	1659.6800	68.06	-48.21	25.37	-50.03	-13.00	37.03	167	200	Horizontal
2	2489.5200	72.91	-47.29	27.74	-41.90	-13.00	28.90	159	252	Horizontal
3	3321.7143	61.57	-46.65	29.53	-50.81	-13.00	37.81	218	239	Horizontal
4	4149.2000	56.10	-45.93	31.02	-54.07	-13.00	41.07	237	226	Horizontal
5	4979.0400	49.11	-45.76	32.82	-59.09	-13.00	46.09	251	66	Horizontal
6	5805.8800	50.30	-44.68	33.76	-55.88	-13.00	42.88	163	360	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	1659.6800	57.31	-48.21	25.37	-60.78	-13.00	47.78	217	281	Vertical
2	2489.5200	57.79	-47.29	27.74	-57.02	-13.00	44.02	259	148	Vertical
3	3319.3600	49.89	-46.65	29.53	-62.49	-13.00	49.49	228	188	Vertical
4	4149.2000	49.77	-45.93	31.02	-60.40	-13.00	47.40	164	293	Vertical
5	4979.0400	49.09	-45.76	32.82	-59.11	-13.00	46.11	139	267	Vertical
6	5805.8800	48.87	-44.68	33.76	-57.31	-13.00	44.31	182	67	Vertical



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SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
 Wireless Laboratory

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Test Band = CAT M1 Band 26_ 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	1669.6800	72.28	-48.20	25.38	-45.80	-13.00	32.80	167	227	Horizontal
2	2505.1429	75.00	-47.25	27.79	-39.73	-13.00	26.73	251	227	Horizontal
3	3341.7143	62.60	-46.62	29.50	-49.78	-13.00	36.78	224	240	Horizontal
4	4177.1429	58.85	-45.95	31.07	-51.29	-13.00	38.29	231	267	Horizontal
5	5009.0400	49.61	-45.77	32.89	-58.54	-13.00	45.54	246	360	Horizontal
6	5843.8800	48.39	-44.80	33.83	-57.83	-13.00	44.83	259	134	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	1669.6800	56.36	-48.20	25.38	-61.72	-13.00	48.72	219	244	Vertical
2	2505.1429	61.06	-47.25	27.79	-53.67	-13.00	40.67	237	126	Vertical
3	3339.3600	49.76	-46.62	29.51	-62.62	-13.00	49.62	184	357	Vertical
4	4174.2000	50.42	-45.94	31.06	-59.72	-13.00	46.72	172	11	Vertical
5	5009.0400	49.39	-45.77	32.89	-58.76	-13.00	45.76	228	297	Vertical
6	5843.8800	49.62	-44.80	33.83	-56.60	-13.00	43.60	261	2	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:

- Level = Reading Level + AF(dB/m) + Factor(dB)
- AF = Antenna Factor(dB/m)
- Factor = Cable Factor(dB) - Preamplifier gain (dB)
- Margin = Limit(dBm) - Level(dBm)
- dBm = dBμV – 95.26



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Frequency Stability

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	5MHz	QPSK	26915	6RB#0	VL	NT	-0.30	- 0.000359	±2.5	PASS
Band26	5MHz	QPSK	26915	6RB#0	VN	NT	-0.30	- 0.000359	±2.5	PASS
Band26	5MHz	QPSK	26915	6RB#0	VH	NT	-0.30	- 0.000359	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band26	5MHz	QPSK	26915	6RB#0	NV	-30	-2.50	- 0.002989	±2.5	PASS
Band26	5MHz	QPSK	26915	6RB#0	NV	-20	-3.90	- 0.004662	±2.5	PASS
Band26	5MHz	QPSK	26915	6RB#0	NV	-10	-3.50	- 0.004184	±2.5	PASS
Band26	5MHz	QPSK	26915	6RB#0	NV	0	1.70	0.002032	±2.5	PASS
Band26	5MHz	QPSK	26915	6RB#0	NV	10	2.10	0.002510	±2.5	PASS
Band26	5MHz	QPSK	26915	6RB#0	NV	20	-1.10	- 0.001315	±2.5	PASS
Band26	5MHz	QPSK	26915	6RB#0	NV	30	-3.40	- 0.004065	±2.5	PASS
Band26	5MHz	QPSK	26915	6RB#0	NV	40	-4.60	- 0.005499	±2.5	PASS
Band26	5MHz	QPSK	26915	6RB#0	NV	50	-4.20	- 0.005021	±2.5	PASS

---End of Attachment---



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