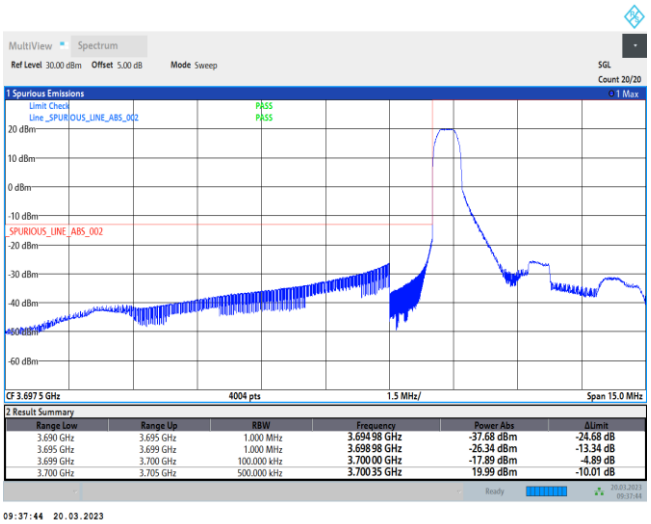
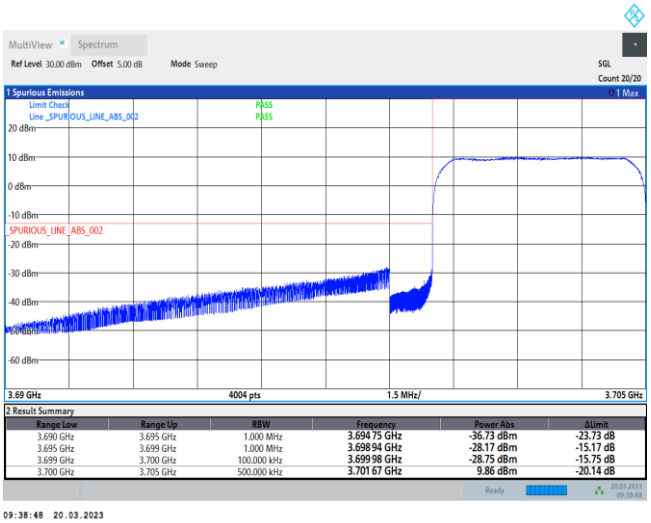
Band Edge

Test Graphs

Band43-5MHz-QPSK-44615-1RB#0



Band43-5MHz-QPSK-44615-25RB#0



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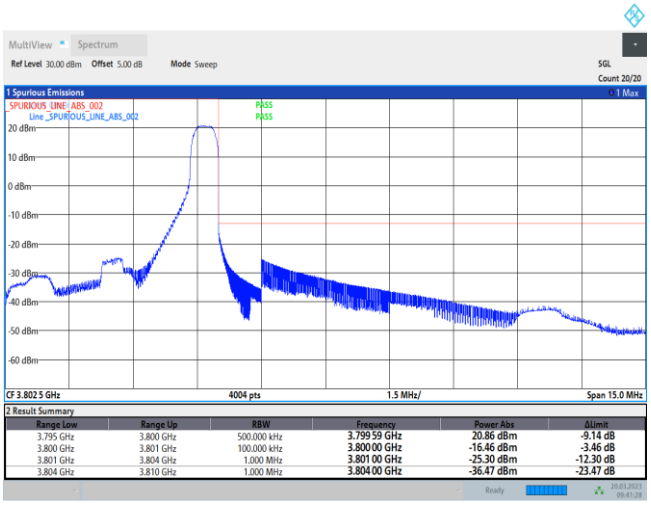
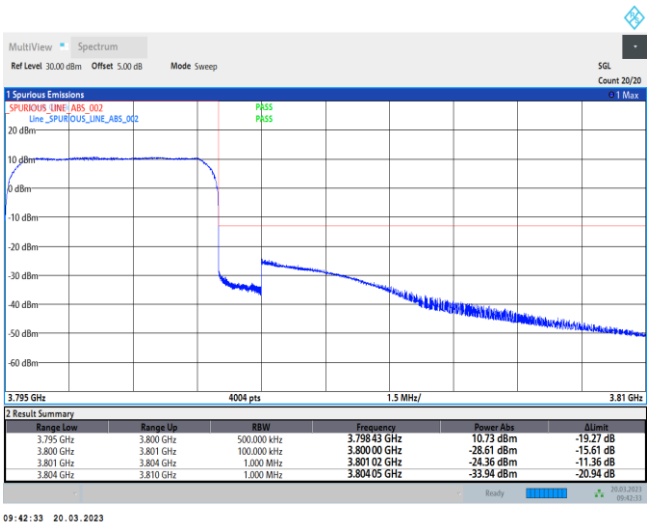
Band43-5MHz-QPSK-45565-1RB#24



Band43-5MHz-QPSK-45565-25RB#0



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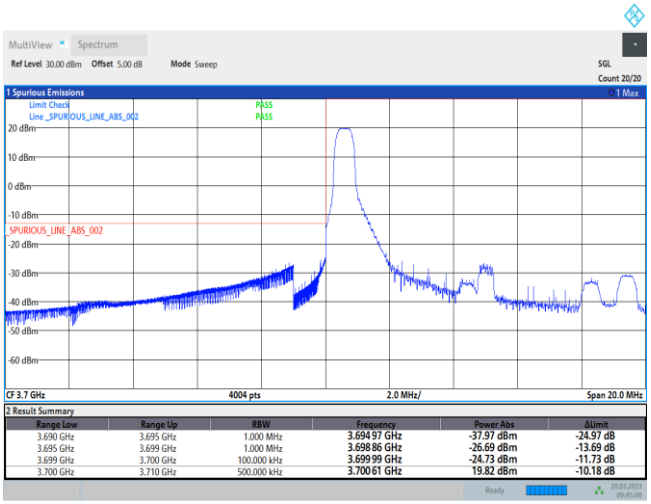
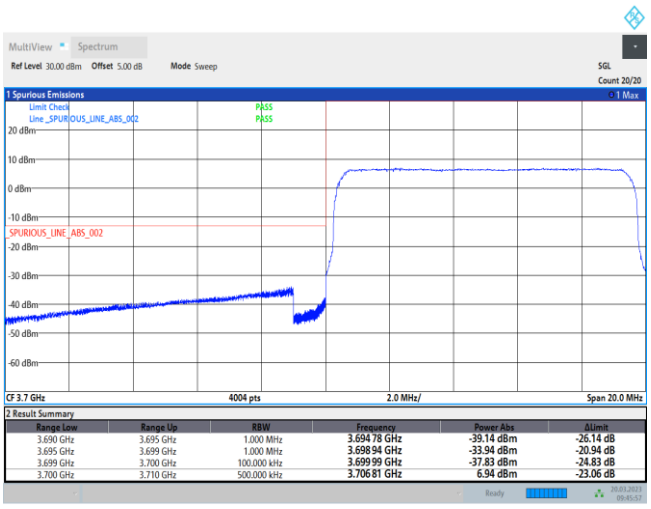
Band43-10MHz-QPSK-44640-1RB#0



Band43-10MHz-QPSK-44640-50RB#0



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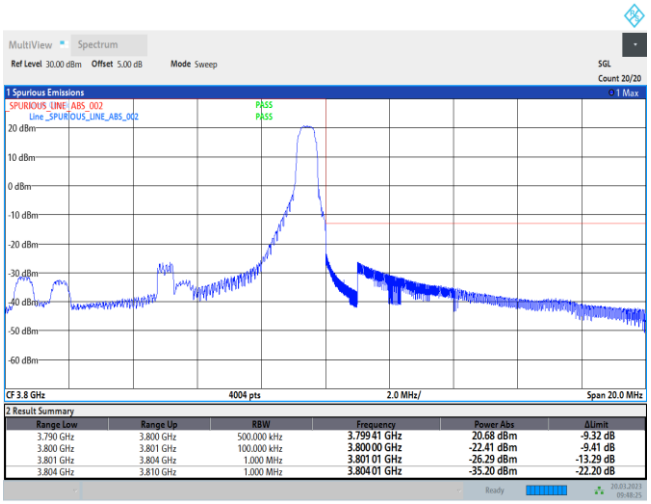
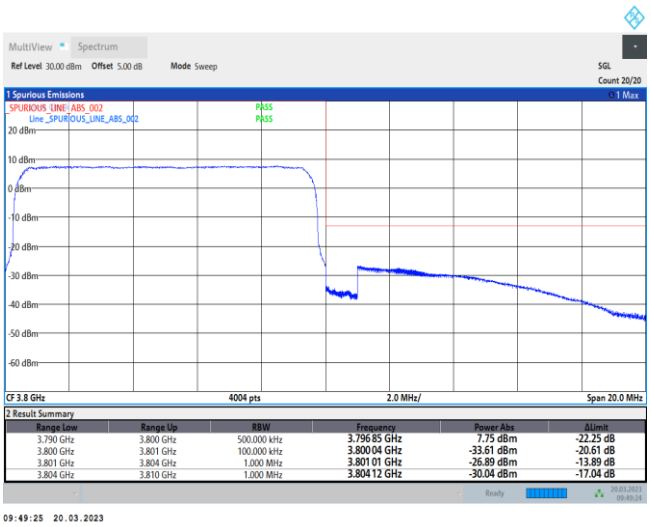
Band43-10MHz-QPSK-45540-1RB#49



Band43-10MHz-QPSK-45540-50RB#0



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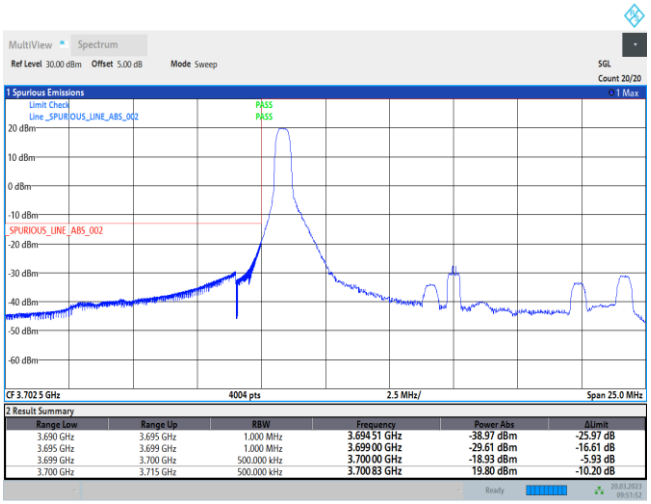
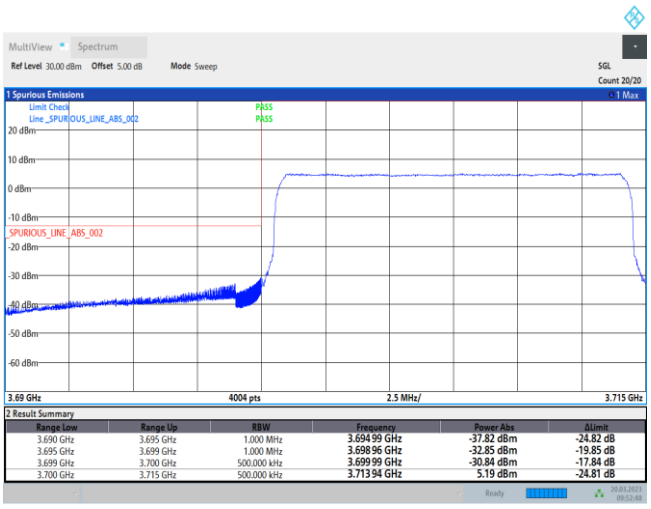
Band43-15MHz-QPSK-44665-1RB#0



Band43-15MHz-QPSK-44665-75RB#0



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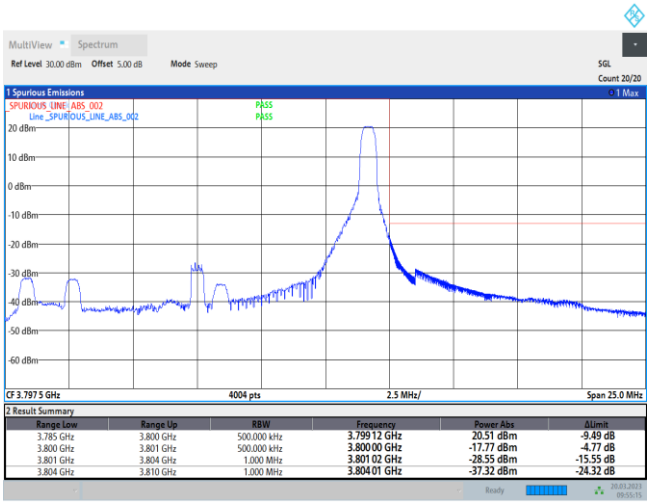
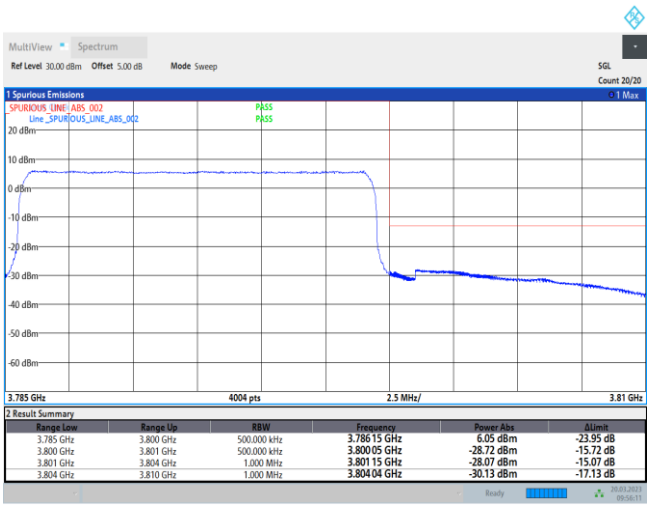
Band43-15MHz-QPSK-45515-1RB#74



Band43-15MHz-QPSK-45515-75RB#0



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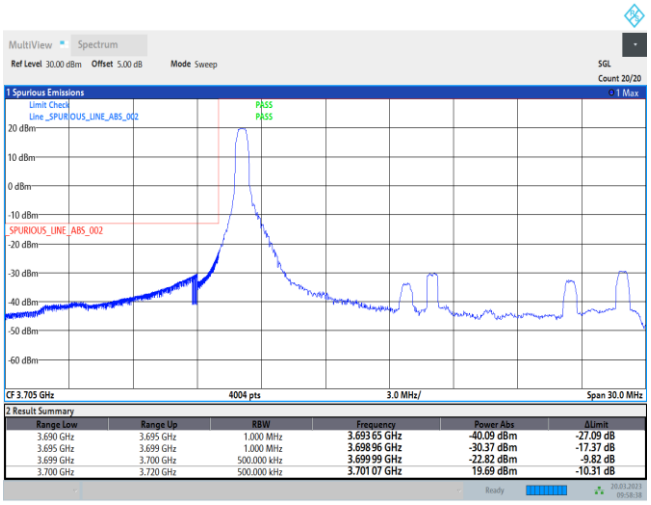
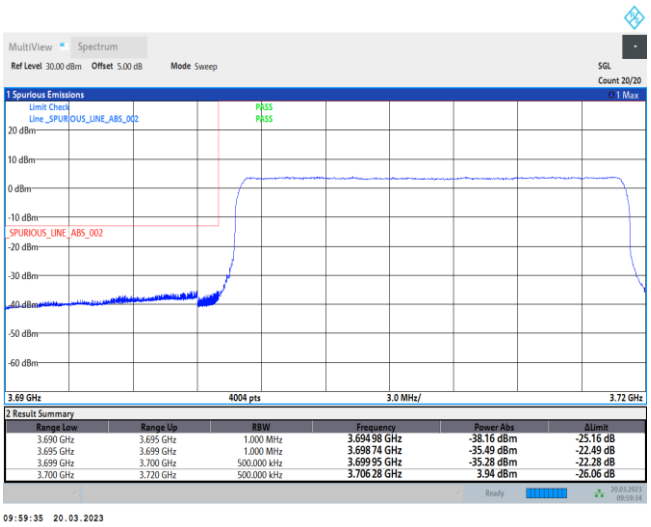
Band43-20MHz-QPSK-44690-1RB#0



Band43-20MHz-QPSK-44690-100RB#0



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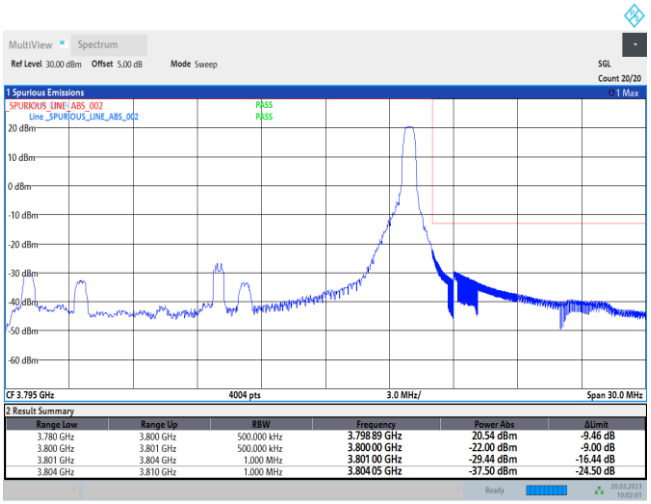
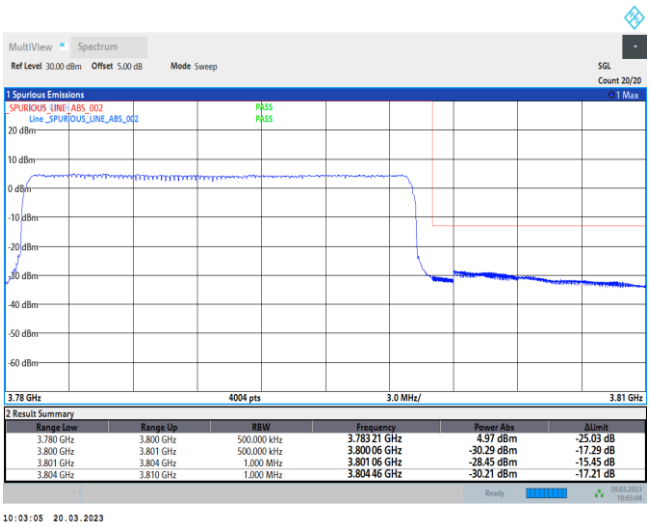
Band43-20MHz-QPSK-45490-1RB#99



Band43-20MHz-QPSK-45490-100RB#0



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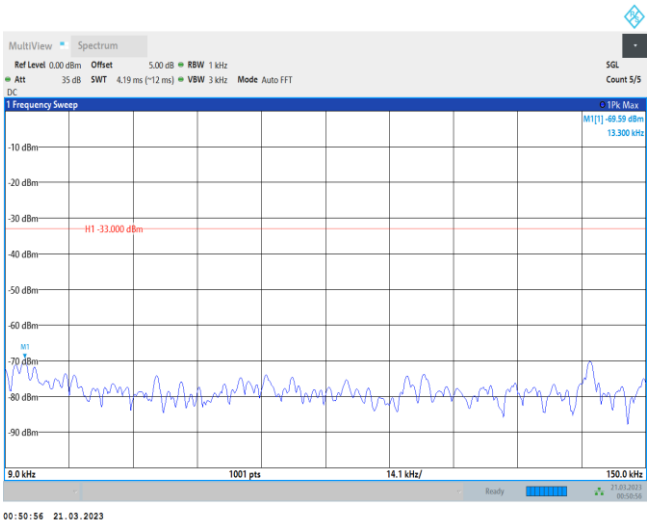
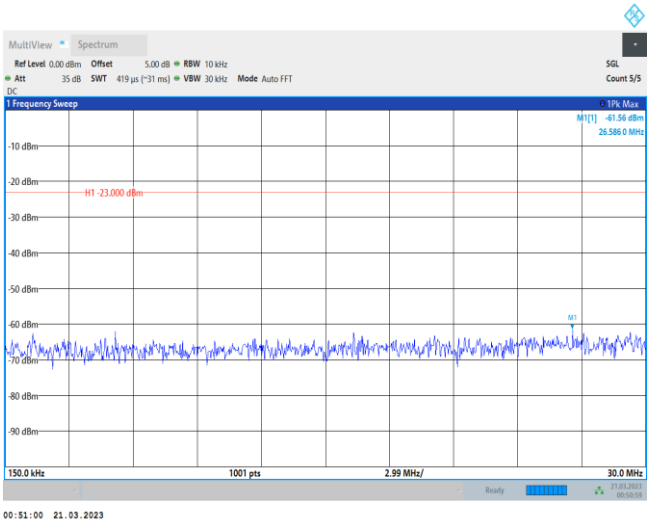
Conducted Spurious Emission

Test Graphs

Band43-20MHz-QPSK-44690-1RB#0-Range1:0.009~0.15MHz



Band43-20MHz-QPSK-44690-1RB#0-Range2:0.15~30MHz



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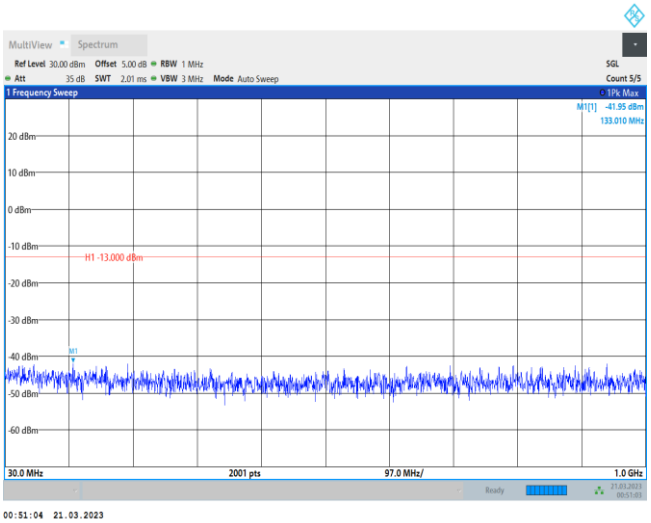
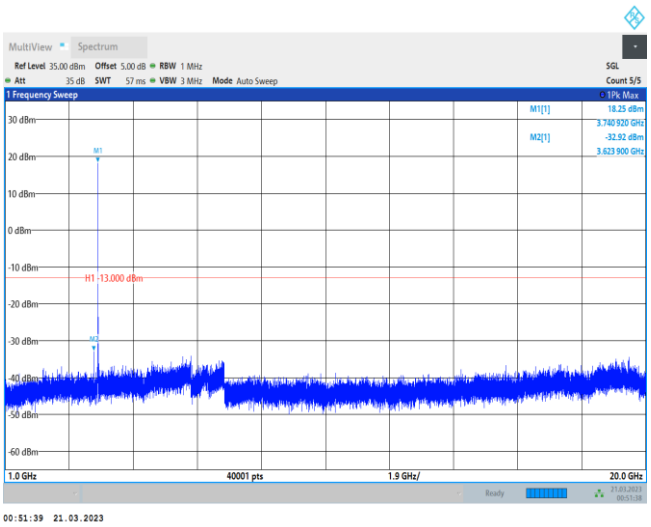
Band43-20MHz-QPSK-44690-1RB#0-Range3:30~1000MHz



Band43-20MHz-QPSK-44690-1RB#0-Range4:1000~20000MHz



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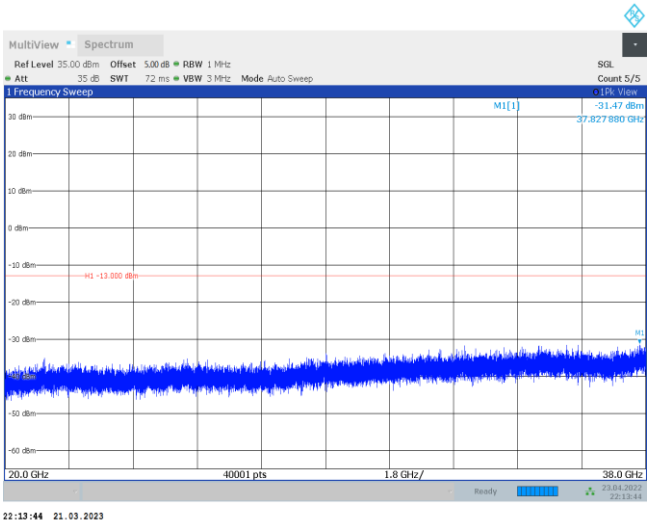
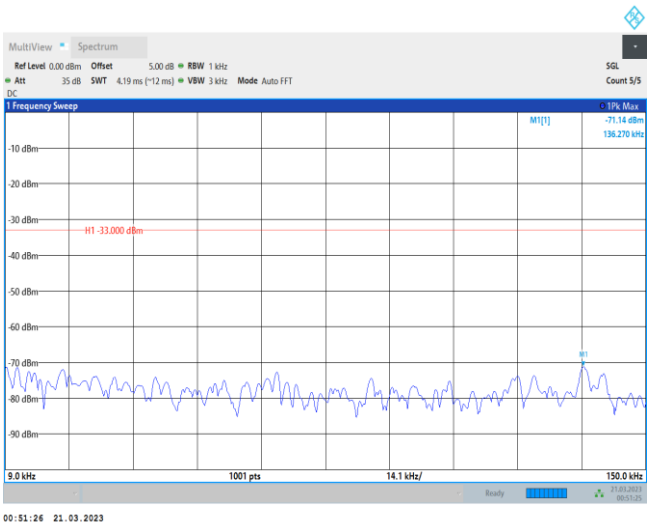
Band43-20MHz-QPSK-44690-1RB#0-Range5:20000~38000MHz



Band43-20MHz-QPSK-45090-1RB#0-Range1:0.009~0.15MHz



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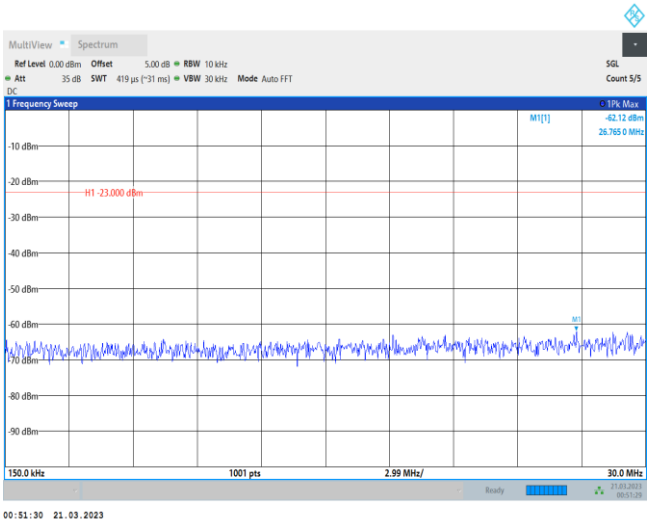
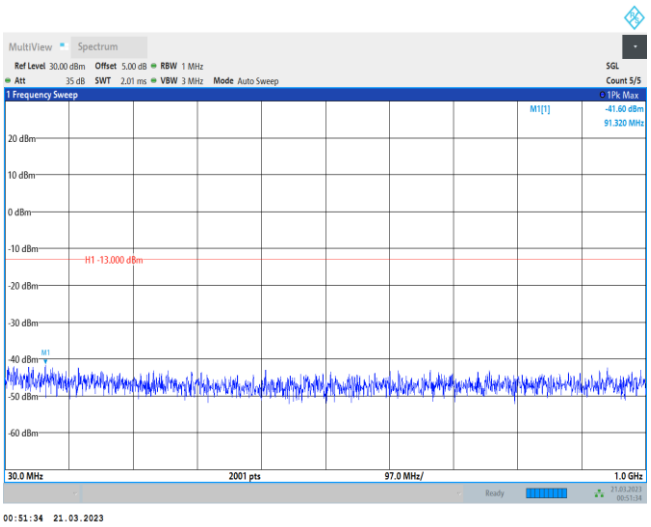
Band43-20MHz-QPSK-45090-1RB#0-Range2:0.15~30MHz



Band43-20MHz-QPSK-45090-1RB#0-Range3:30~1000MHz



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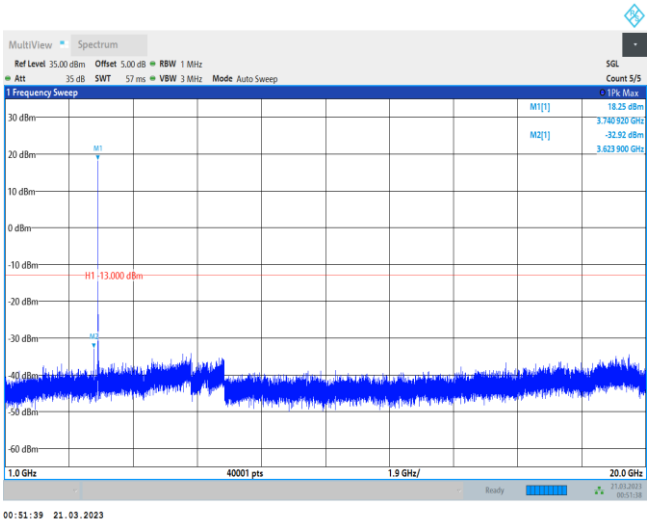
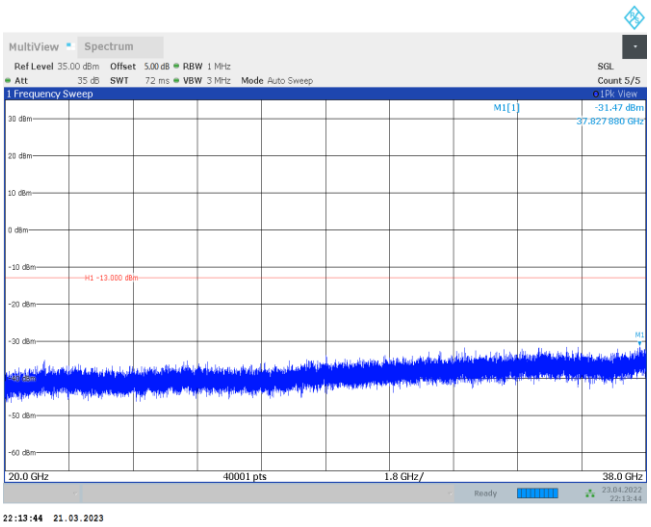
Band43-20MHz-QPSK-45090-1RB#0-Range4:1000~20000MHz



Band43-20MHz-QPSK-45090-1RB#0-Range5:20000~38000MHz



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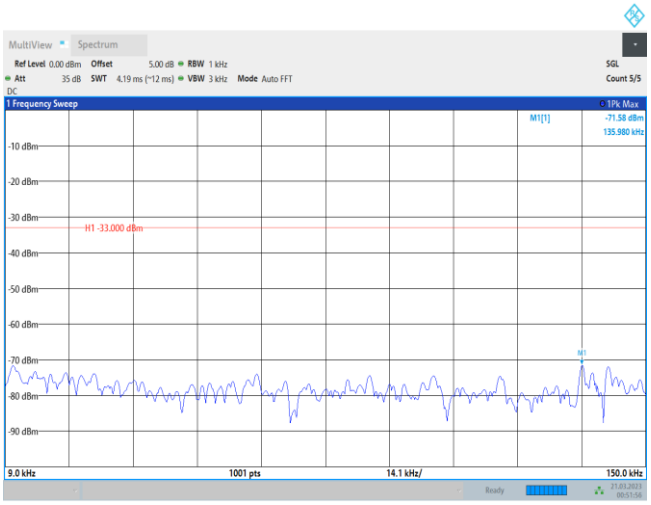
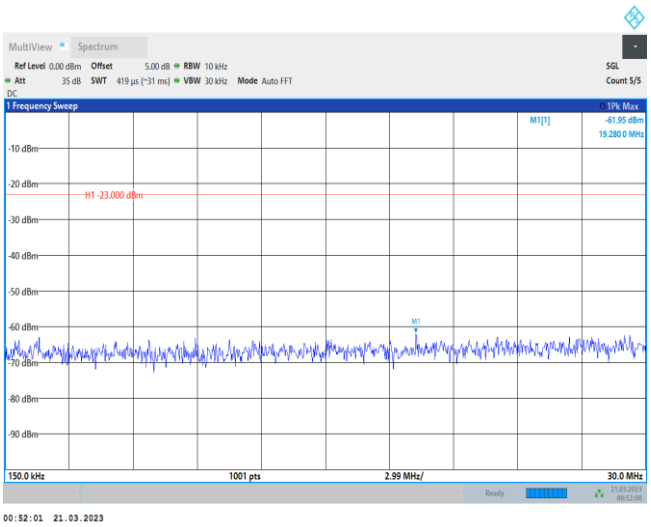
Band43-20MHz-QPSK-45490-1RB#0-Range1:0.009~0.15MHz



Band43-20MHz-QPSK-45490-1RB#0-Range2:0.15~30MHz



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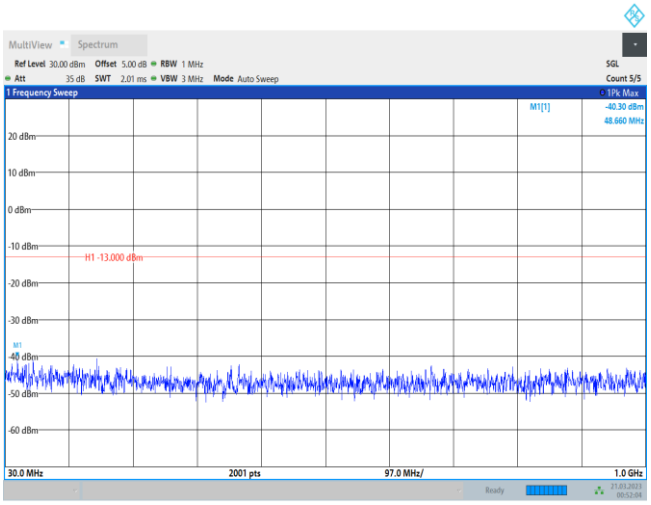
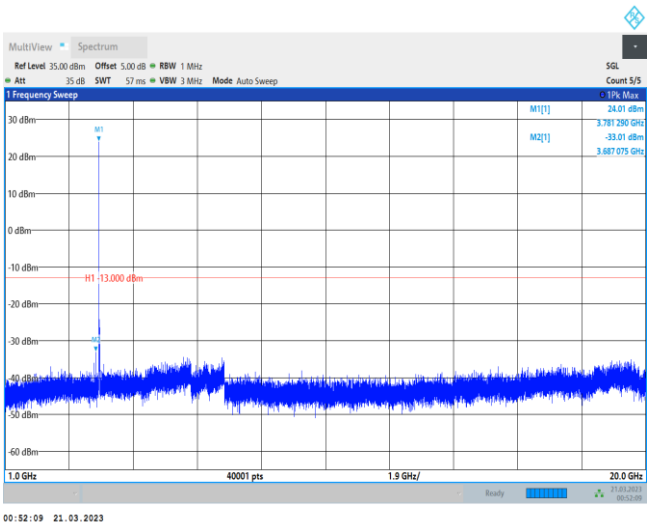
Band43-20MHz-QPSK-45490-1RB#0-Range3:30~1000MHz



Band43-20MHz-QPSK-45490-1RB#0-Range4:1000~20000MHz



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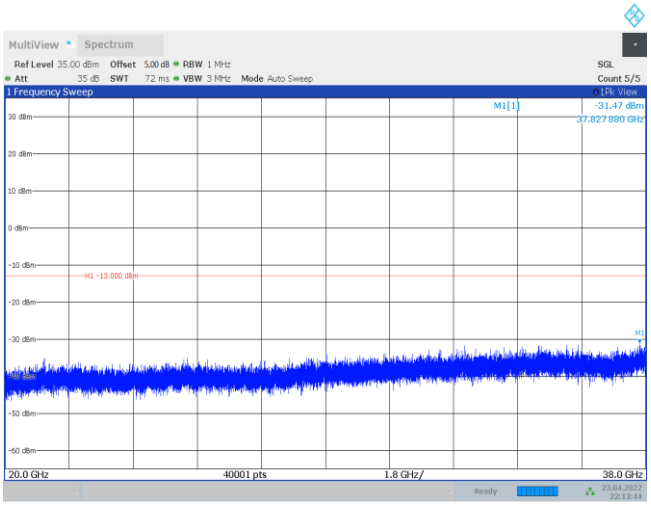
Band43-20MHz-QPSK-45490-1RB#0-Range5:20000~38000MHz



Field Strength of Spurious Radiation

Test Band = LTE Band43 _20MHz_3700-3800_ 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	6334.5	43.20	-44.22	34.48	-61.79	-13.00	48.79	254	245	Horizontal
2	7402.1800	40.53	-43.26	36.49	-61.50	-13.00	48.50	136	0	Horizontal
3	9595.9167	37.48	-39.08	38.44	-58.42	-13.00	45.42	211	18	Horizontal
4	11103.2700	32.69	-37.66	39.09	-61.14	-13.00	48.14	198	133	Horizontal
5	14804.3600	31.51	-35.20	39.65	-59.29	-13.00	46.29	174	1	Horizontal
6	17795.8333	35.35	-34.54	40.79	-53.66	-13.00	40.66	185	311	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	5156.1667	46.16	-45.29	32.97	-61.43	-13.00	48.43	228	195	Vertical
2	7402	48.79	-43.26	36.49	-53.25	-13.00	40.25	196	294	Vertical
3	8933.8333	39.58	-40.97	38.16	-58.49	-13.00	45.49	238	18	Vertical
4	11103.2700	33.04	-37.66	39.09	-60.79	-13.00	47.79	165	1	Vertical
5	14804.3600	31.82	-35.20	39.65	-58.98	-13.00	45.98	171	2	Vertical
6	17628.4167	33.16	-33.19	39.71	-55.57	-13.00	42.57	129	343	Vertical

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Test Band = LTE Band43 _20MHz_3700-3800_ 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	4843.5	47.13	-45.23	32.44	-60.92	-13.00	47.92	249	20	Horizontal
2	7482.1800	40.08	-43.03	36.45	-61.76	-13.00	48.76	183	20	Horizontal
3	9642	37.74	-39.16	38.39	-58.29	-13.00	45.29	255	68	Horizontal
4	11223.2700	34.06	-37.59	39.11	-59.68	-13.00	46.68	137	357	Horizontal
5	14964.3600	30.49	-34.77	39.30	-60.24	-13.00	47.24	146	150	Horizontal
6	16797.1667	34.44	-34.16	38.39	-56.60	-13.00	43.60	219	102	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	4843.5	50.95	-45.23	32.44	-57.10	-13.00	44.10	278	49	Vertical
2	5978.6667	42.83	-44.70	34.09	-63.04	-13.00	50.04	168	16	Vertical
3	7481.9167	47.30	-43.03	36.45	-54.54	-13.00	41.54	213	99	Vertical
4	9260.5	38.61	-40.17	38.39	-58.44	-13.00	45.44	244	66	Vertical
5	11223.2700	34.23	-37.59	39.11	-59.51	-13.00	46.51	195	1	Vertical
6	14964.3600	31.45	-34.77	39.30	-59.28	-13.00	46.28	216	133	Vertical

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Test Band = LTE Band43 _20MHz_3700-3800_ 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	4843.5	47.66	-45.23	32.44	-60.39	-13.00	47.39	214	20	Horizontal
2	7562.1800	39.31	-42.94	36.41	-62.48	-13.00	49.48	189	169	Horizontal
3	9042.9167	39.40	-40.57	38.23	-58.20	-13.00	45.20	233	0	Horizontal
4	11343.2700	33.49	-37.34	39.11	-60.00	-13.00	47.00	189	11	Horizontal
5	15124.3600	30.39	-34.66	39.05	-60.48	-13.00	47.48	156	53	Horizontal
6	17177.5	35.93	-35.04	38.60	-55.78	-13.00	42.78	224	200	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	5156.1667	45.28	-45.29	32.97	-62.31	-13.00	49.31	209	357	Vertical
2	7562.1800	41.82	-42.94	36.41	-59.97	-13.00	46.97	168	78	Vertical
3	9639.0833	37.87	-39.15	38.40	-58.14	-13.00	45.14	274	293	Vertical
4	11343.2700	33.49	-37.34	39.11	-60.00	-13.00	47.00	156	293	Vertical
5	15124.3600	30.48	-34.66	39.05	-60.39	-13.00	47.39	135	30	Vertical
6	17031.0833	34.77	-33.78	38.52	-55.76	-13.00	42.76	223	30	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band43	20MHz	QPSK	45090	100RB#0	VL	NT	1.30	0.000347	PASS
Band43	20MHz	QPSK	45090	100RB#0	VN	NT	6.90	0.001840	PASS
Band43	20MHz	QPSK	45090	100RB#0	VH	NT	9.80	0.002613	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
Band43	20MHz	QPSK	45090	100RB#0	NV	-30	5.10	0.001360	PASS
Band43	20MHz	QPSK	45090	100RB#0	NV	-20	-12.60	-0.003360	PASS
Band43	20MHz	QPSK	45090	100RB#0	NV	0	-8.40	-0.002240	PASS
Band43	20MHz	QPSK	45090	100RB#0	NV	10	-0.30	-0.000080	PASS
Band43	20MHz	QPSK	45090	100RB#0	NV	20	6.50	0.001733	PASS
Band43	20MHz	QPSK	45090	100RB#0	NV	30	-7.40	-0.001973	PASS
Band43	20MHz	QPSK	45090	100RB#0	NV	40	1.10	0.000293	PASS
Band43	20MHz	QPSK	45090	100RB#0	NV	50	6.00	0.001600	PASS

---End of Attachment---

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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000 t (86–512) 62992980 www.sgsgroup.com.cn
中国·苏州·中国（江苏）自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南部 邮编：215000 t (86–512) 62992980 sgs.china@sgs.com
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