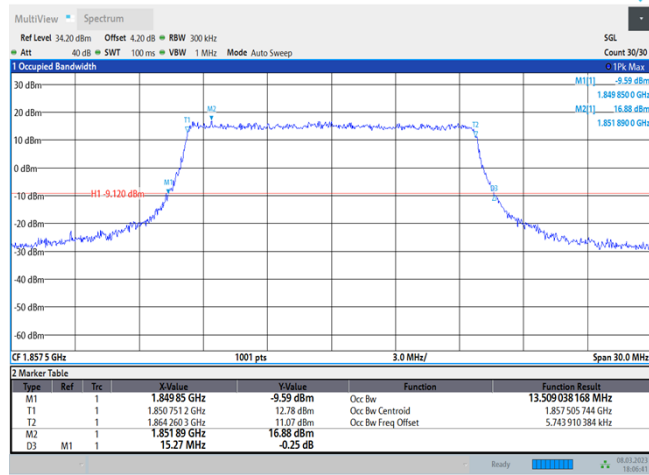
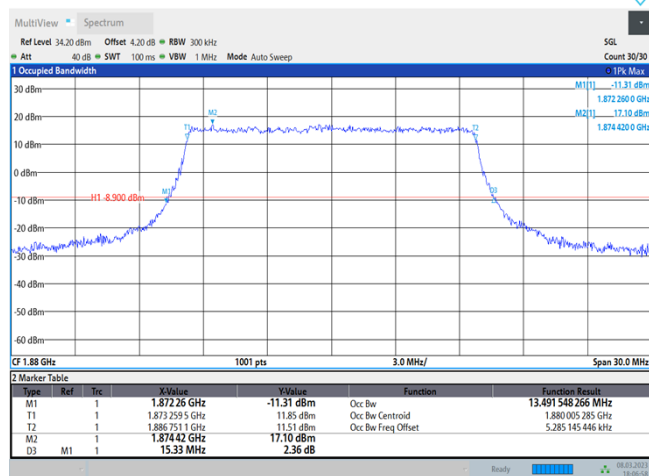


Band2-15MHz-QPSK-18675-75RB#0



18:06:42 08.03.2023

Band2-15MHz-QPSK-18900-75RB#0



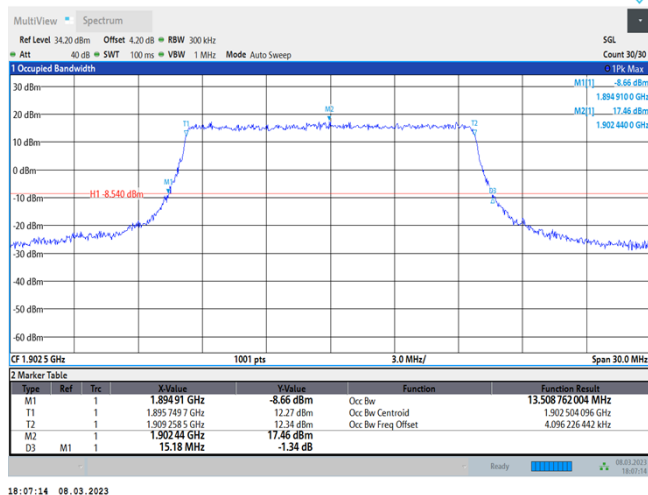
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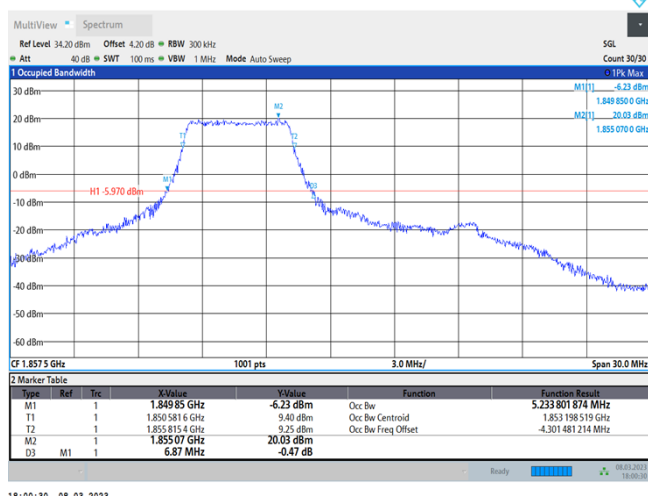
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Band2-15MHz-QPSK-19125-75RB#0



18:07:14 08.03.2023

Band2-15MHz-16QAM-18675-27RB#0



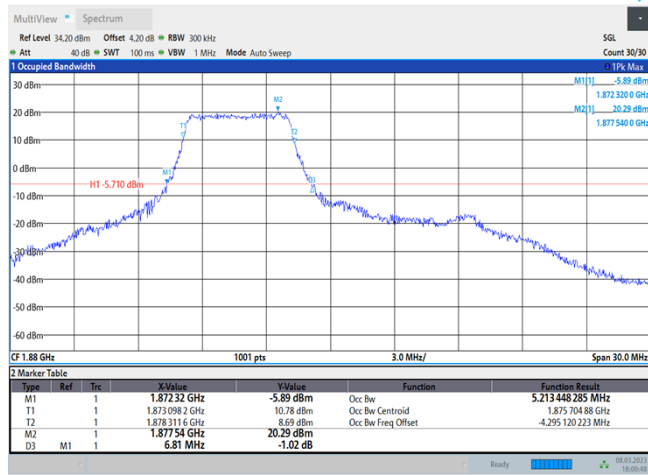
18:00:30 08.03.2023



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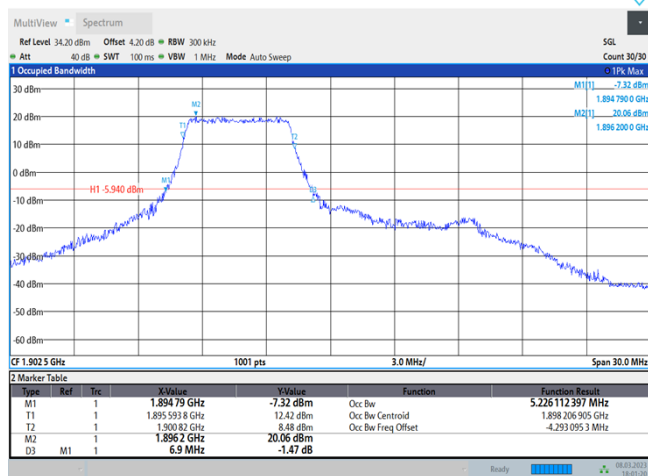
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Band2-15MHz-16QAM-18900-27RB#0



18:00:48 08.03.2023

Band2-15MHz-16QAM-19125-27RB#0



18:01:21 08.03.2023

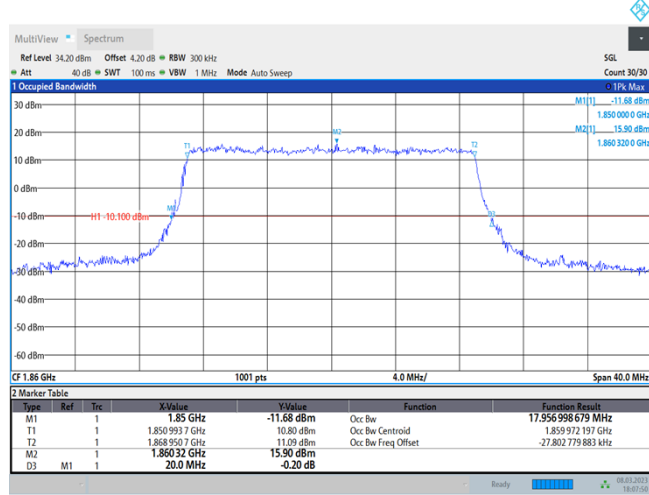


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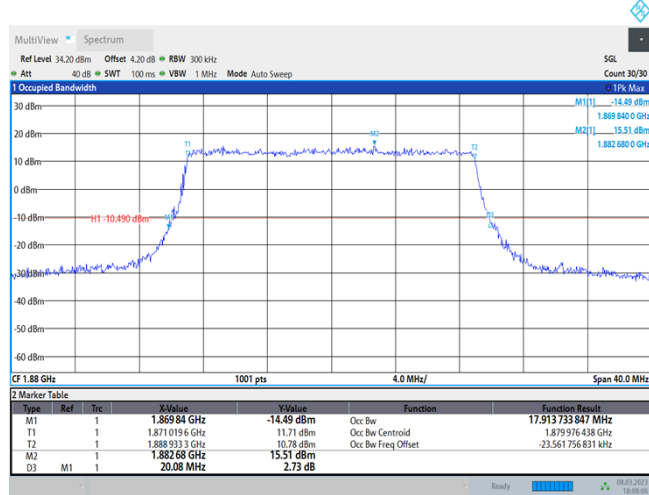
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Band2-20MHz-QPSK-18700-100RB#0



18:07:51 08.03.2023

Band2-20MHz-QPSK-18900-100RB#0



18:08:07 08.03.2023

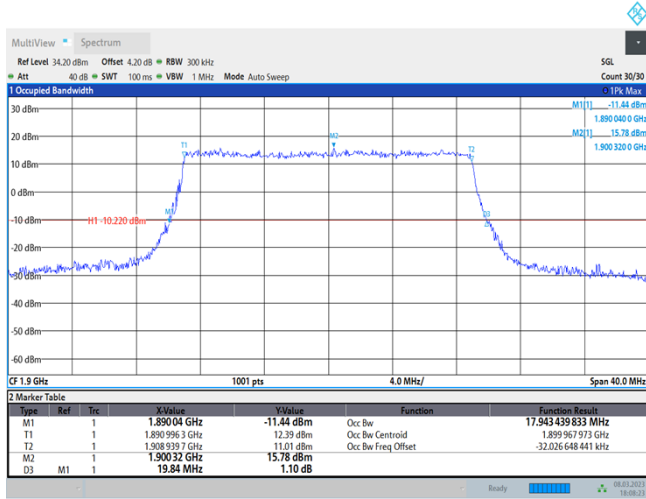


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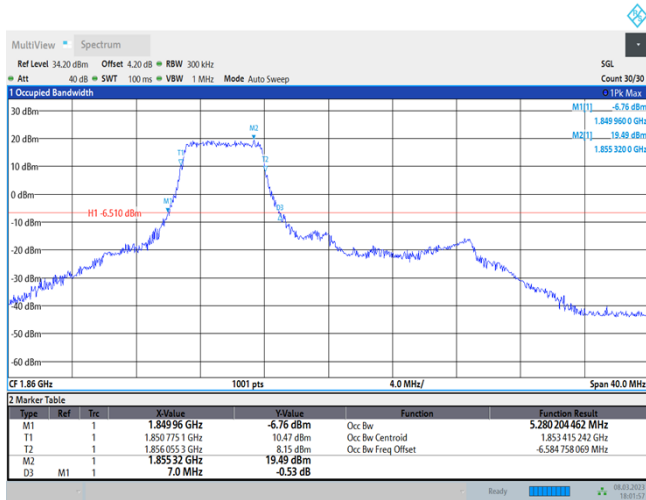
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Band2-20MHz-QPSK-19100-100RB#0



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Band2-20MHz-16QAM-18700-27RB#0



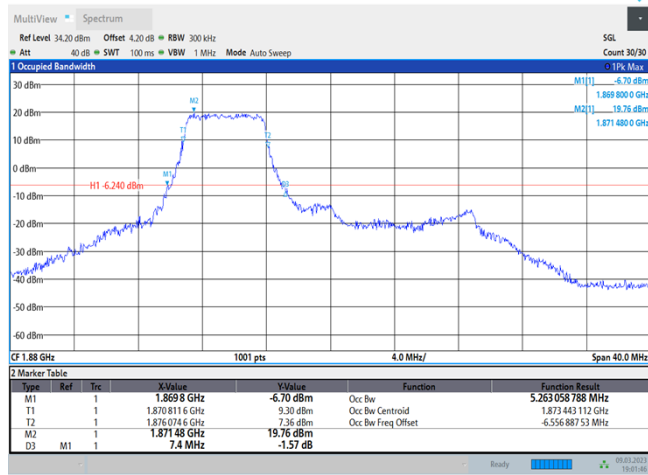
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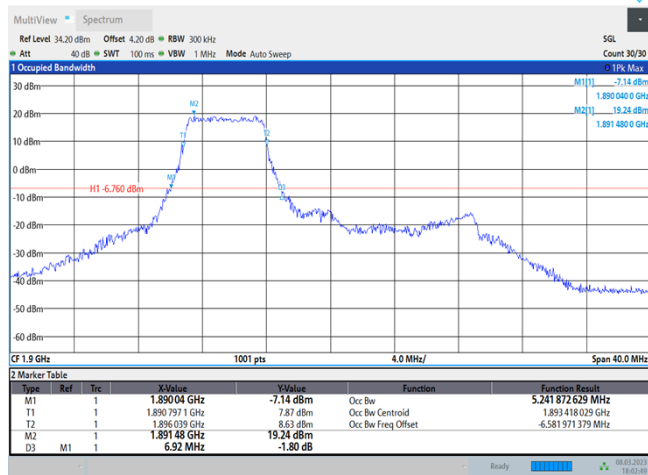
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Band2-20MHz-16QAM-18900-27RB#0



19:01:47 09.03.2023

Band2-20MHz-16QAM-19100-27RB#0



18:02:50 08.03.2023



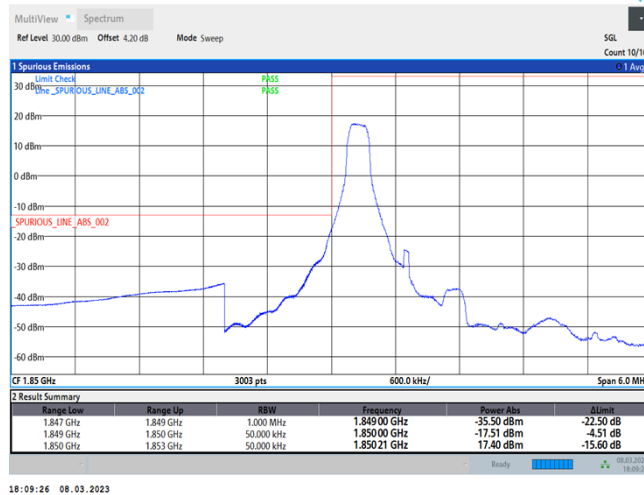
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Band Edge

Test Graphs

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



18:09:26 08.03.2023

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



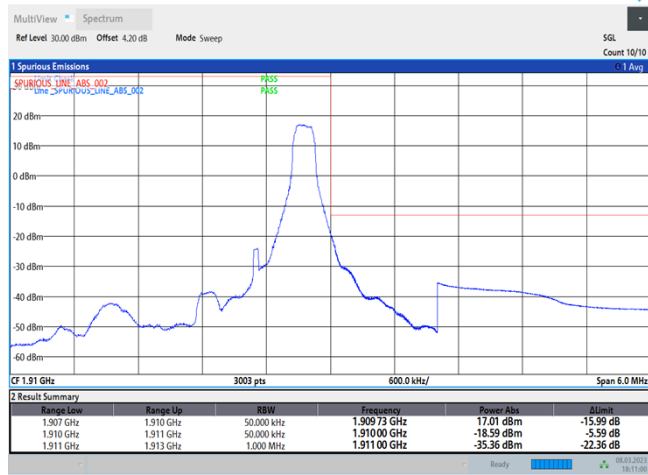
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Band2-1.4MHz-QPSK-19193-1RB#5



18:11:00 08.03.2023

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



18:11:33 08.03.2023



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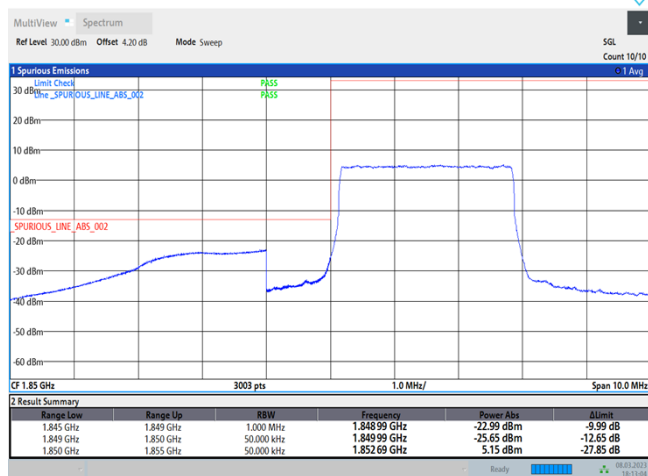
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Band2-3MHz-QPSK-18615-1RB#0



18:12:33 08.03.2023

Band2-3MHz-QPSK-18615-15RB#0



18:13:05 08.03.2023



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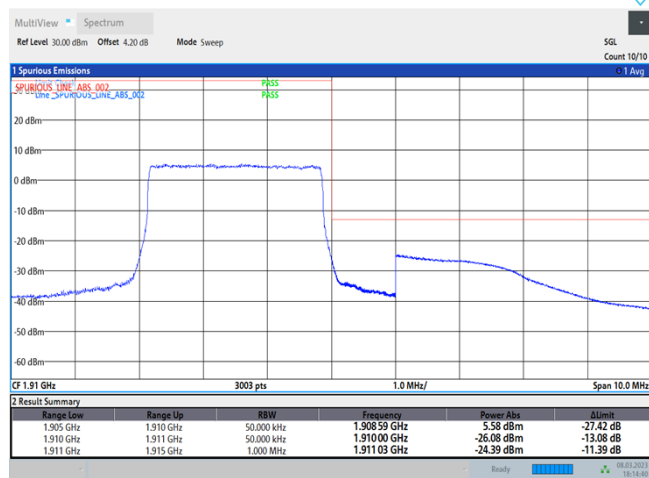
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Band2-3MHz-QPSK-19185-1RB#14



18:14:07 08.03.2023

Band2-3MHz-QPSK-19185-15RB#0



18:14:40 08.03.2023



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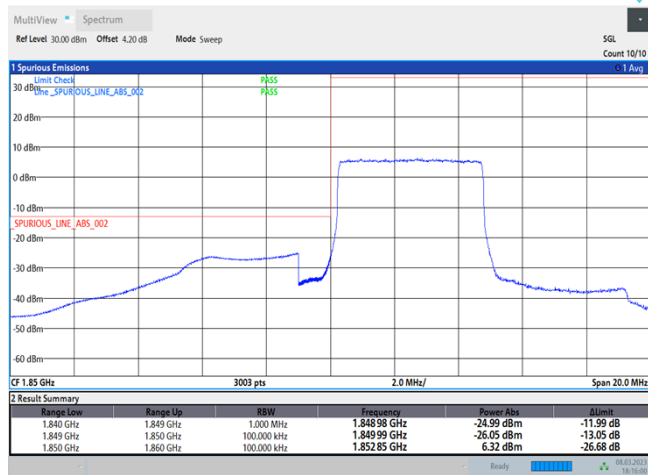
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Band2-5MHz-QPSK-18625-1RB#0



18:15:38 08.03.2023

Band2-5MHz-QPSK-18625-25RB#0



18:16:01 08.03.2023

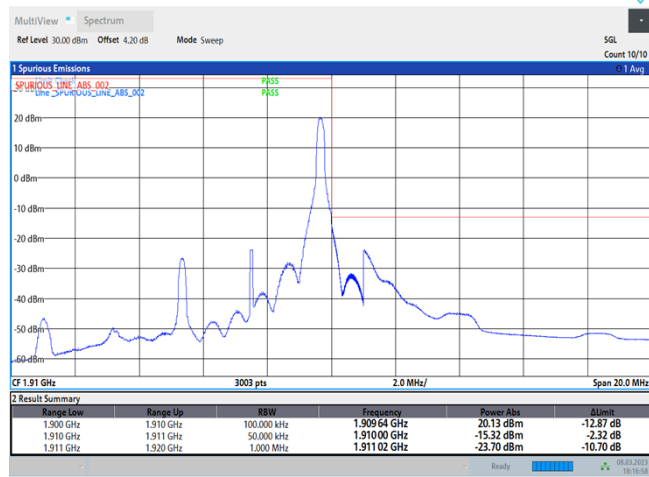


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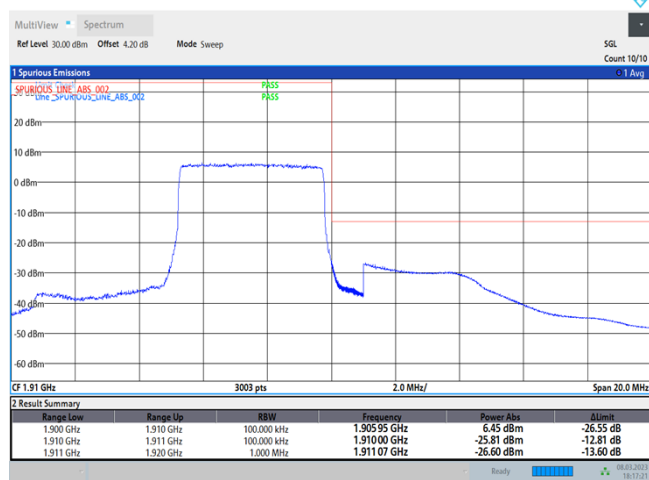
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Band2-5MHz-QPSK-19175-1RB#24



Band2-5MHz-QPSK-19175-25RB#0

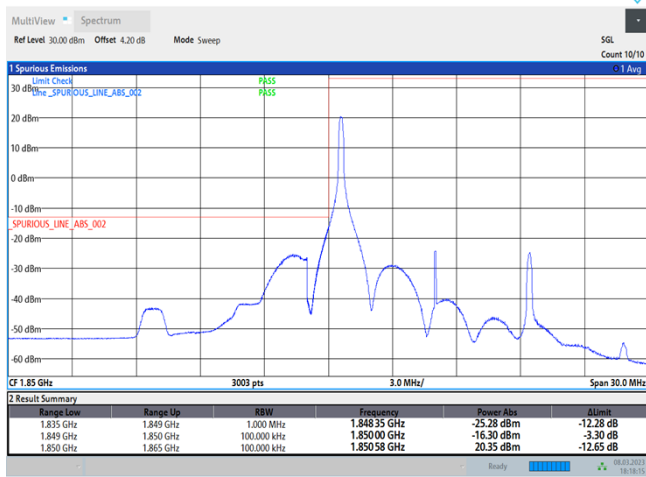


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Band2-10MHz-QPSK-18650-1RB#0



18:18:15 08.03.2023

Band2-10MHz-QPSK-18650-50RB#0



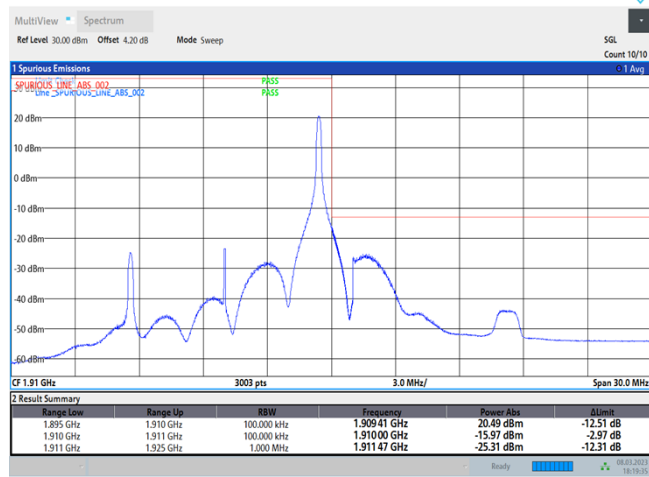
18:18:38 08.03.2023



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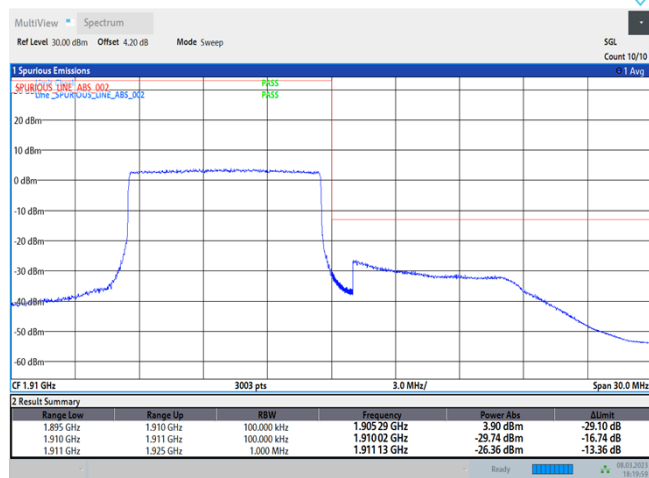
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Band2-10MHz-QPSK-19150-1RB#49



18:19:36 08.03.2023

Band2-10MHz-QPSK-19150-50RB#0



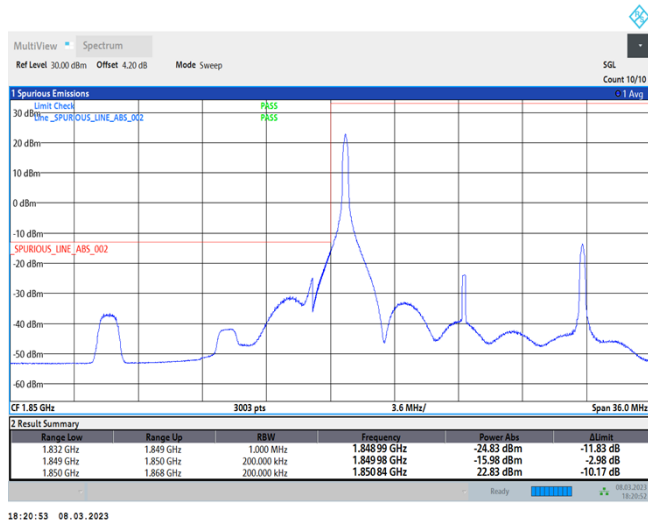
18:19:59 08.03.2023



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Band2-15MHz-QPSK-18675-1RB#0



18:20:53 08.03.2023

Band2-15MHz-QPSK-18675-75RB#0



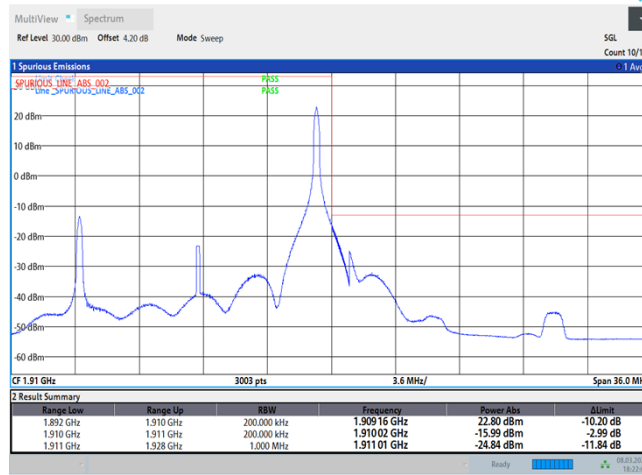
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Band2-15MHz-QPSK-19125-1RB#74



18:22:10 08.03.2023

Band2-15MHz-QPSK-19125-75RB#0



18:22:33 08.03.2023



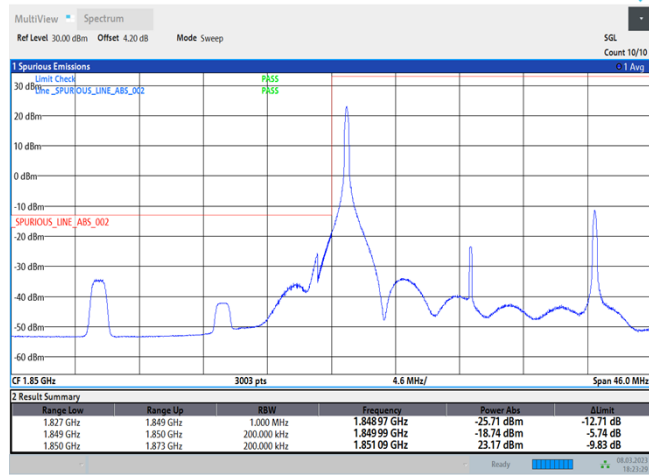
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Band2-20MHz-QPSK-18700-1RB#0



Band2-20MHz-QPSK-18700-100RB#0

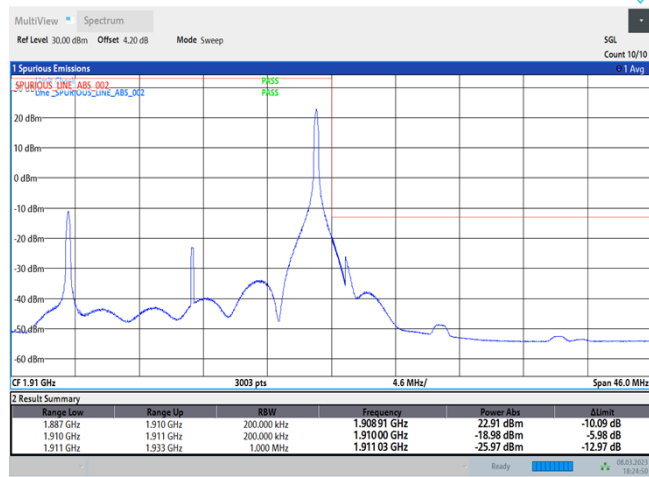


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Band2-20MHz-QPSK-19100-1RB#99



18:24:50 08.03.2023

Band2-20MHz-QPSK-19100-100RB#0



18:25:13 08.03.2023



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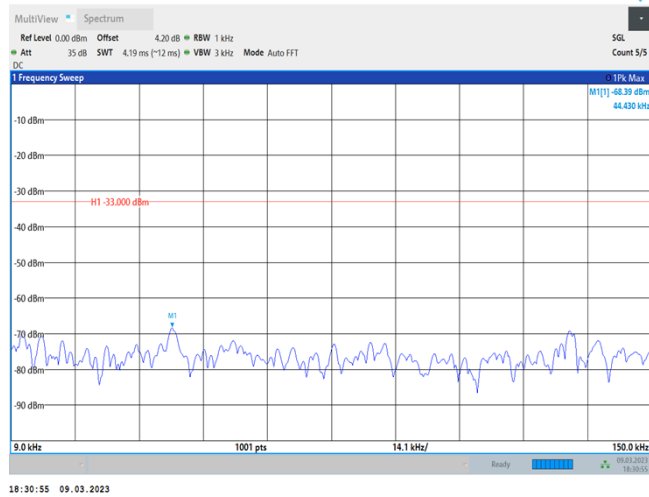
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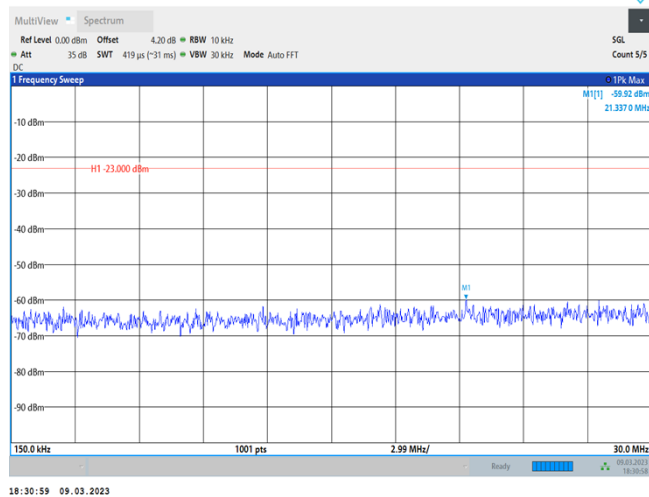
Conducted Spurious Emission

Test Graphs

Band2-20MHz-QPSK-18700-1RB#0-Range1:0.009~0.15MHz



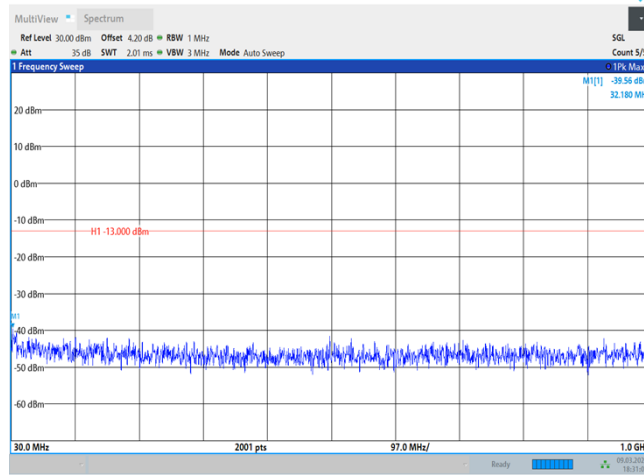
Band2-20MHz-QPSK-18700-1RB#0-Range2:0.15~30MHz



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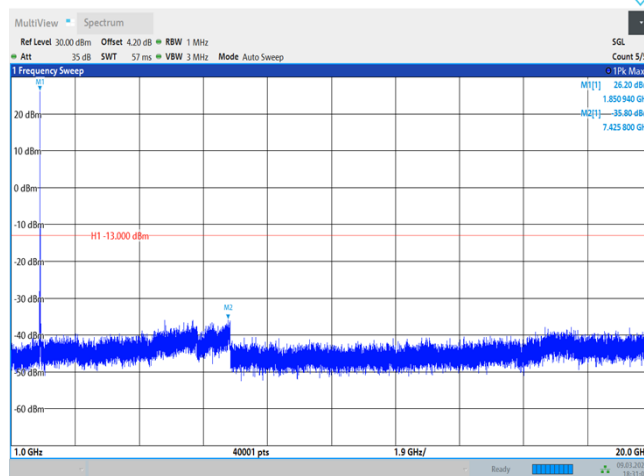
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Band2-20MHz-QPSK-18700-1RB#0-Range3:30~1000MHz



18:31:03 09.03.2023

Band2-20MHz-QPSK-18700-1RB#0-Range4:1000~20000MHz



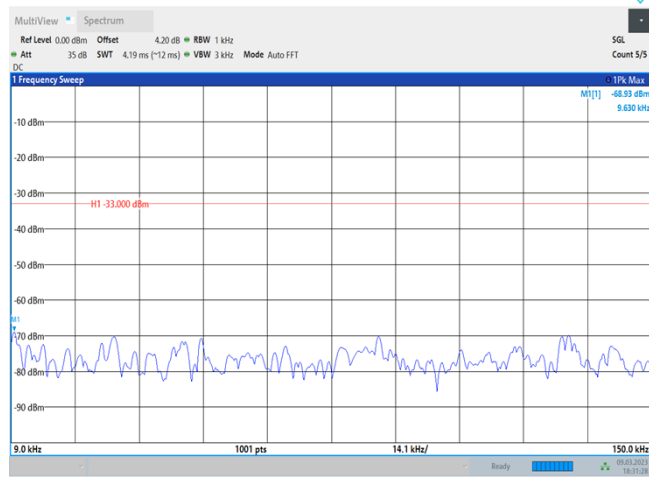
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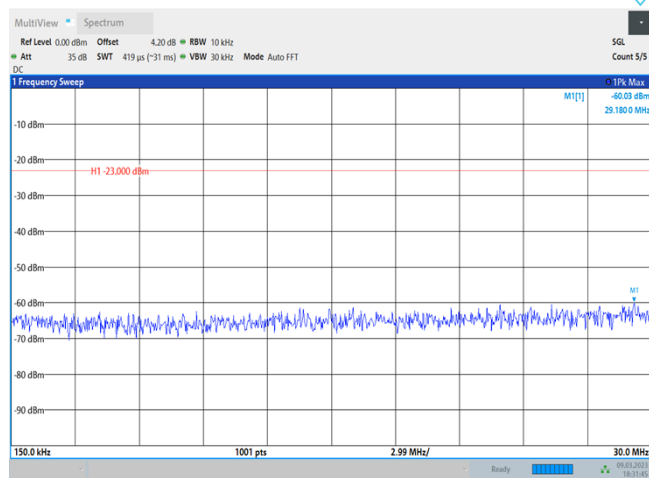
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Band2-20MHz-QPSK-18900-1RB#0-Range1:0.009~0.15MHz



18:31:28 09.03.2023

Band2-20MHz-QPSK-18900-1RB#0-Range2:0.15~30MHz



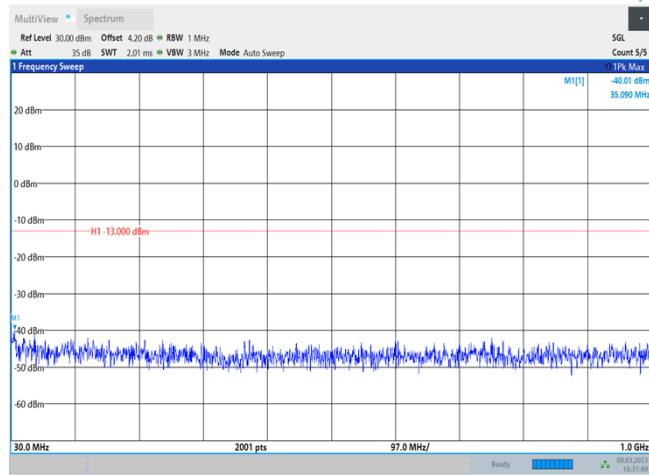
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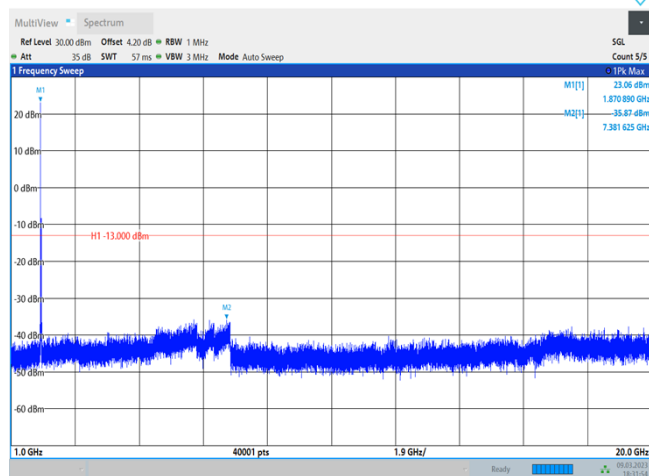
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Band2-20MHz-QPSK-18900-1RB#0-Range3:30~1000MHz



18:31:50 09.03.2023

Band2-20MHz-QPSK-18900-1RB#0-Range4:1000~20000MHz



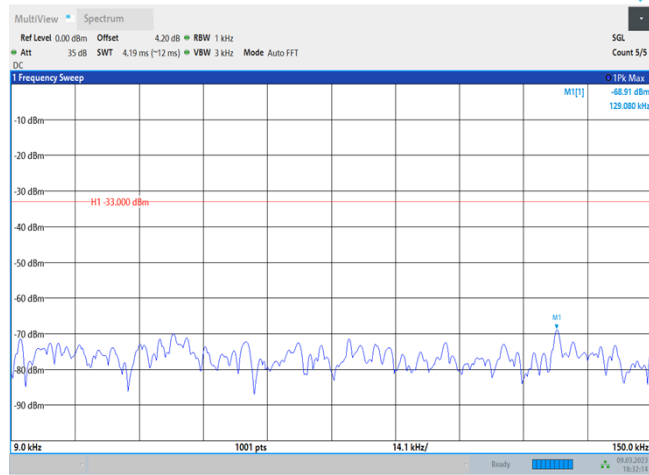
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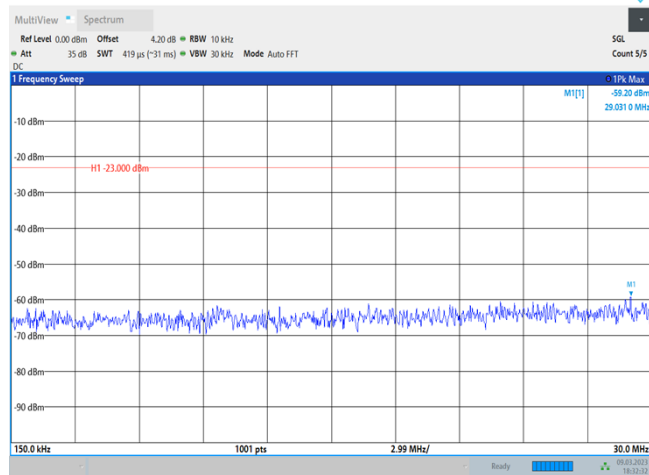
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Band2-20MHz-QPSK-19100-1RB#0-Range1:0.009~0.15MHz



18:32:15 09.03.2023

Band2-20MHz-QPSK-19100-1RB#0-Range2:0.15~30MHz



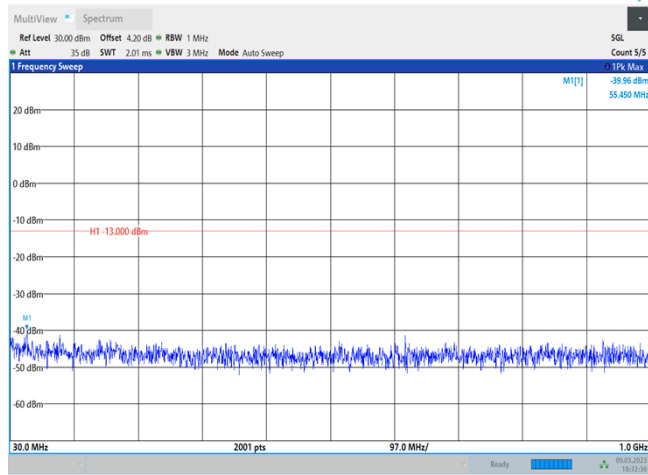
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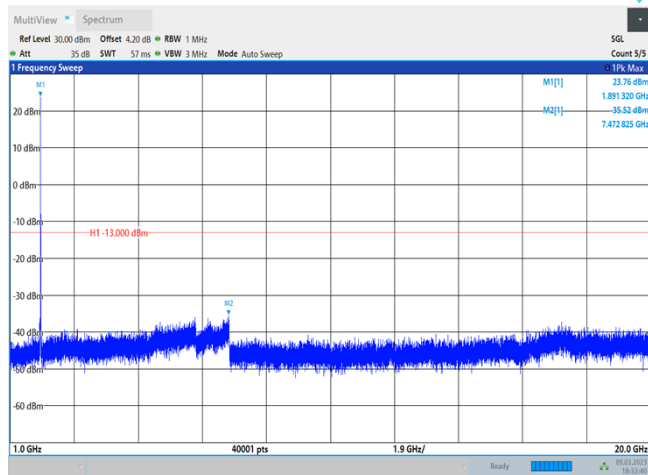
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Band2-20MHz-QPSK-19100-1RB#0-Range3:30~1000MHz



18:32:36 09.03.2023

Band2-20MHz-QPSK-19100-1RB#0-Range4:1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 2_QPSK_20MHz_TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.18	56.83	-45.69	29.89	-54.24	-13.00	41.24	149	322	Horizontal
2	5553.27	41.39	-43.87	32.77	-64.97	-13.00	51.97	216	227	Horizontal
3	7404.36	38.79	-41.96	36.44	-61.99	-13.00	48.99	239	15	Horizontal
4	9255.45	33.23	-38.39	38.57	-61.85	-13.00	48.85	154	31	Horizontal
5	11106.54	31.58	-35.35	39.49	-59.54	-13.00	46.54	176	273	Horizontal
6	12957.63	32.97	-34.89	39.56	-57.63	-13.00	44.63	221	258	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	51.95	-45.69	29.88	-59.12	-13.00	46.12	162	295	Vertical
2	5553.27	40.93	-43.87	32.77	-65.43	-13.00	52.43	305	344	Vertical
3	7404.36	39.14	-41.96	36.44	-61.64	-13.00	48.64	266	264	Vertical
4	9255.45	33.84	-38.39	38.57	-61.24	-13.00	48.24	185	99	Vertical
5	11106.54	31.85	-35.35	39.49	-59.27	-13.00	46.27	214	81	Vertical
6	12957.63	32.91	-34.89	39.56	-57.69	-13.00	44.69	165	344	Vertical



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Test Band = LTE Band 2_QPSK_20MHz_TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.18	57.49	-45.59	29.98	-53.37	-13.00	40.37	143	315	Horizontal
2	5613.27	40.64	-43.84	32.96	-65.50	-13.00	52.50	256	166	Horizontal
3	7484.36	38.96	-41.66	36.49	-61.47	-13.00	48.47	184	353	Horizontal
4	9355.45	34.81	-38.26	38.56	-60.15	-13.00	47.15	236	298	Horizontal
5	11226.54	31.92	-35.07	39.37	-59.03	-13.00	46.03	289	166	Horizontal
6	13097.63	31.99	-34.47	39.66	-58.08	-13.00	45.08	176	182	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	3742.18	49.32	-45.59	29.98	-61.54	-13.00	48.54	279	296	Vertical
2	5613.27	40.99	-43.84	32.96	-65.15	-13.00	52.15	143	279	Vertical
3	7484.36	38.93	-41.66	36.49	-61.50	-13.00	48.50	158	99	Vertical
4	9355.45	34.42	-38.26	38.56	-60.54	-13.00	47.54	219	314	Vertical
5	11226.54	31.76	-35.07	39.37	-59.19	-13.00	46.19	234	16	Vertical
6	13097.63	32.83	-34.47	39.66	-57.24	-13.00	44.24	251	16	Vertical



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Test Band = LTE Band 2_QPSK_20MHz_TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3782.18	60.59	-45.48	30.08	-50.07	-13.00	37.07	238	313	Horizontal
2	5673.27	40.74	-43.77	33.16	-65.14	-13.00	52.14	149	49	Horizontal
3	7564.36	37.40	-41.38	36.63	-62.61	-13.00	49.61	216	265	Horizontal
4	9455.45	35.38	-38.15	38.55	-59.48	-13.00	46.48	255	148	Horizontal
5	11346.54	31.01	-35.43	39.25	-60.43	-13.00	47.43	184	360	Horizontal
6	13237.63	31.58	-34.98	39.74	-58.91	-13.00	45.91	226	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	3782.18	51.52	-45.48	30.08	-59.14	-13.00	46.14	274	295	Vertical
2	5673.27	41.00	-43.77	33.16	-64.88	-13.00	51.88	196	50	Vertical
3	7564.36	38.15	-41.38	36.63	-61.86	-13.00	48.86	216	360	Vertical
4	9455.45	35.86	-38.15	38.55	-59.00	-13.00	46.00	235	280	Vertical
5	11346.54	31.88	-35.43	39.25	-59.56	-13.00	46.56	241	280	Vertical
6	13237.63	31.53	-34.98	39.74	-58.96	-13.00	45.96	156	197	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 (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	VL	NT	-4.60	-0.002447	PASS
Band2	20MHz	QPSK	18900	100RB#0	VN	NT	-5.30	-0.002819	PASS
Band2	20MHz	QPSK	18900	100RB#0	VH	NT	-3.50	-0.001862	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band2	20MHz	QPSK	18900	100RB#0	NV	-30	-5.30	-0.002819	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-20	-1.10	-0.000585	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	-10	-5.20	-0.002766	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	0	-2.90	-0.001543	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	10	-5.70	-0.003032	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	20	-2.90	-0.001543	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	30	-1.00	-0.000532	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	40	-3.40	-0.001809	PASS
Band2	20MHz	QPSK	18900	100RB#0	NV	50	-5.70	-0.003032	PASS

---End of Attachment---



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