

Report No.: SEWM2304000115RG04

Rev.: 01

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Appendix B.7

LTE Band 14



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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
Band14	5MHz	QPSK	23305	1RB#0	23.92	18.47	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	23.80	18.35	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	23.74	18.29	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	22.76	17.31	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	23.78	18.33	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	23.81	18.36	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	23.79	18.34	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	22.78	17.33	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	23.88	18.43	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	23.84	18.39	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	23.82	18.37	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	22.71	17.26	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.07	17.62	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.00	17.55	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	22.86	17.41	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	21.76	16.31	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	22.87	17.42	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	22.91	17.46	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	22.86	17.41	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	21.66	16.21	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	22.95	17.50	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	22.90	17.45	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	22.94	17.49	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	21.70	16.25	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#0	22.06	16.61	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#12	21.99	16.54	34.77	PASS
Band14	5MHz	64QAM	23305	1RB#24	21.89	16.44	34.77	PASS



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Band14	5MHz	64QAM	23305	25RB#0	20.72	15.27	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#0	21.98	16.53	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#12	21.94	16.49	34.77	PASS
Band14	5MHz	64QAM	23330	1RB#24	22.00	16.55	34.77	PASS
Band14	5MHz	64QAM	23330	25RB#0	20.70	15.25	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#0	21.98	16.53	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#12	21.96	16.51	34.77	PASS
Band14	5MHz	64QAM	23355	1RB#24	21.87	16.42	34.77	PASS
Band14	5MHz	64QAM	23355	25RB#0	20.70	15.25	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	23.91	18.46	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#24	23.85	18.40	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	23.75	18.30	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	22.72	17.27	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	23.02	17.57	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	22.95	17.50	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	22.91	17.46	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	21.71	16.26	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#0	22.02	16.57	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#24	22.02	16.57	34.77	PASS
Band14	10MHz	64QAM	23330	1RB#49	21.95	16.50	34.77	PASS
Band14	10MHz	64QAM	23330	50RB#0	20.75	15.30	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
Band14	10MHz	QPSK	23330	50RB#0	4.86	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.80	13	PASS
Band14	10MHz	64QAM	23330	50RB#0	6.18	13	PASS



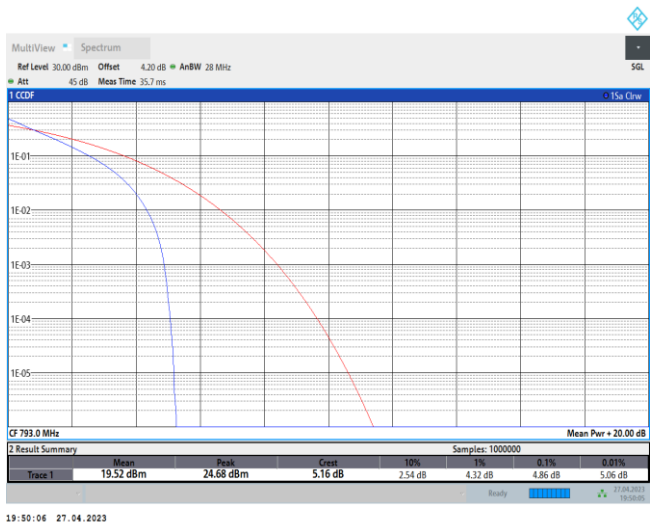
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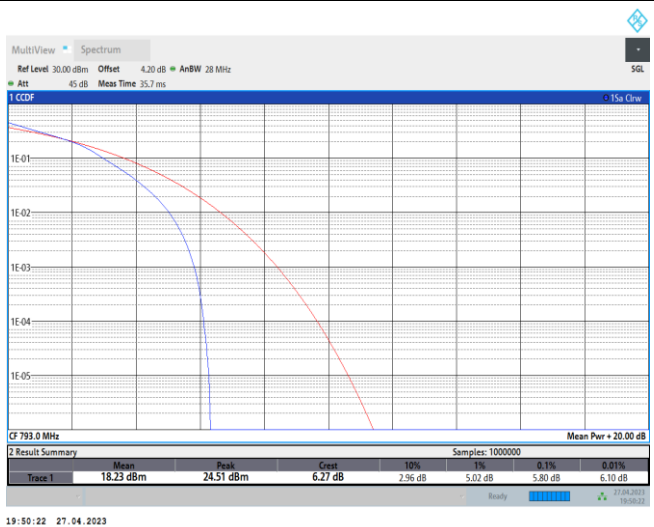
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Test Graphs

Band14-10MHz-QPSK-23330-50RB#0



Band14-10MHz-16QAM-23330-50RB#0

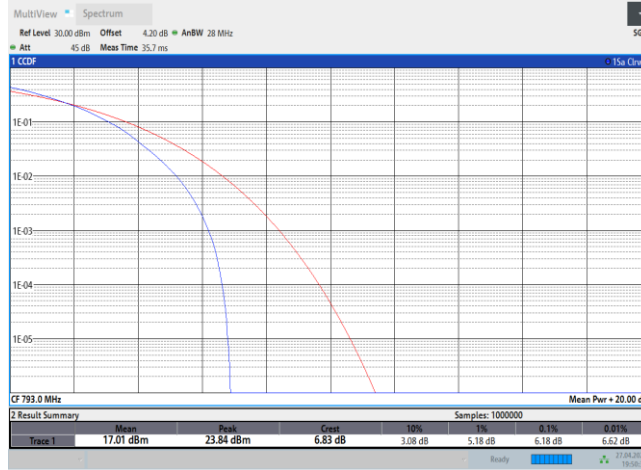


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Band14-10MHz-64QAM-23330-50RB#0



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band14	10MHz	QPSK	23330	50RB#0	PASS	PASS
Band14	10MHz	16QAM	23330	50RB#0	PASS	PASS
Band14	10MHz	64QAM	23330	50RB#0	PASS	PASS



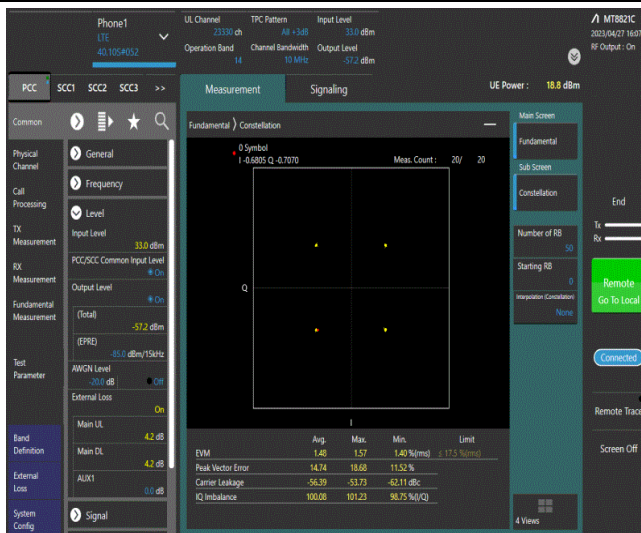
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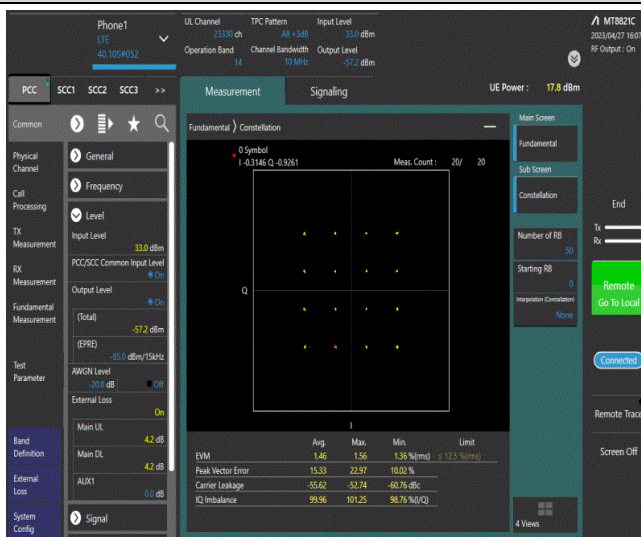
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Test Graphs

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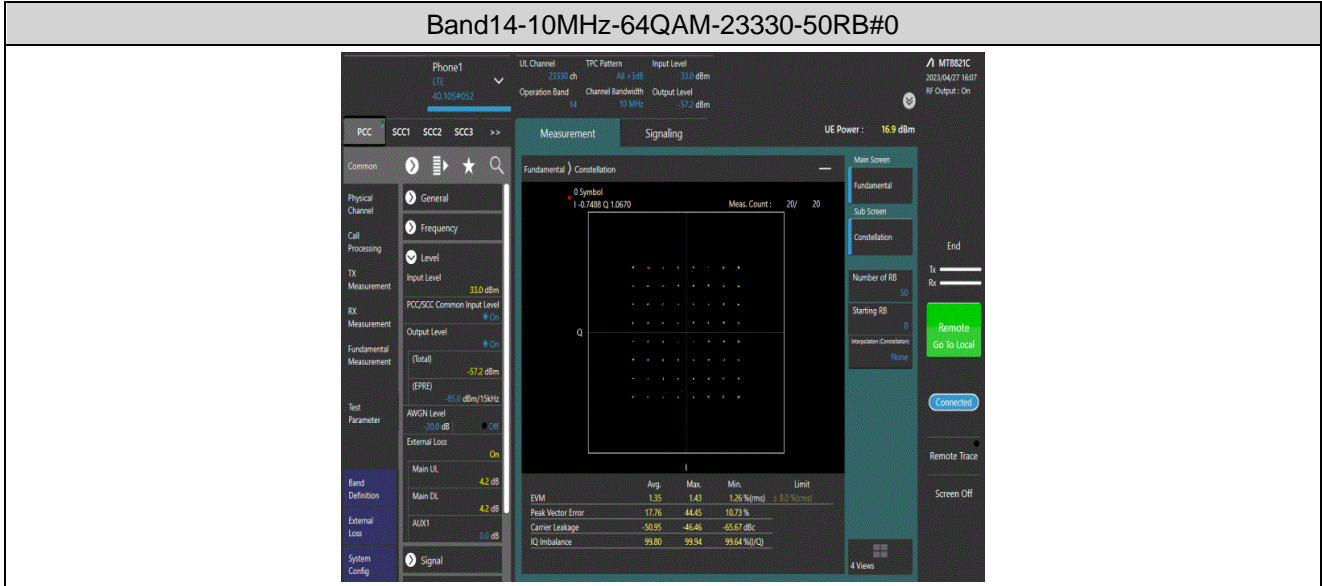


Band14-10MHz-16QAM-23330-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.475	4.89	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.483	5.04	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.466	4.97	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.470	4.99	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.493	5.09	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.472	4.94	PASS
Band14	5MHz	64QAM	23305	25RB#0	4.469	4.98	PASS
Band14	5MHz	64QAM	23330	25RB#0	4.481	4.92	PASS
Band14	5MHz	64QAM	23355	25RB#0	4.494	4.92	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.958	9.73	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.942	9.87	PASS
Band14	10MHz	64QAM	23330	50RB#0	8.946	9.63	PASS



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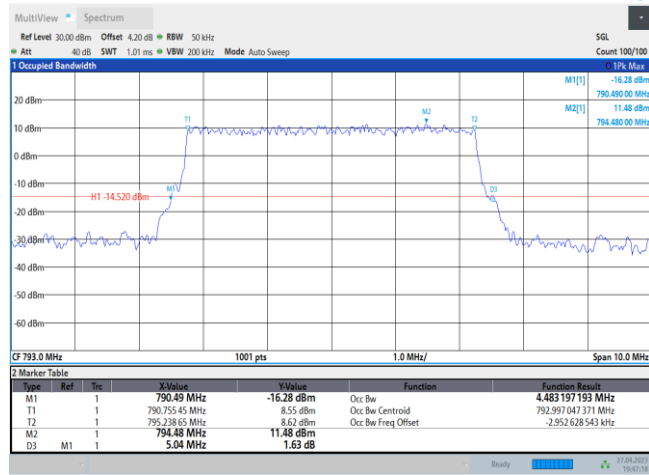
Test Graphs

Band14-5MHz-QPSK-23305-25RB#0



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Band14-5MHz-QPSK-23330-25RB#0



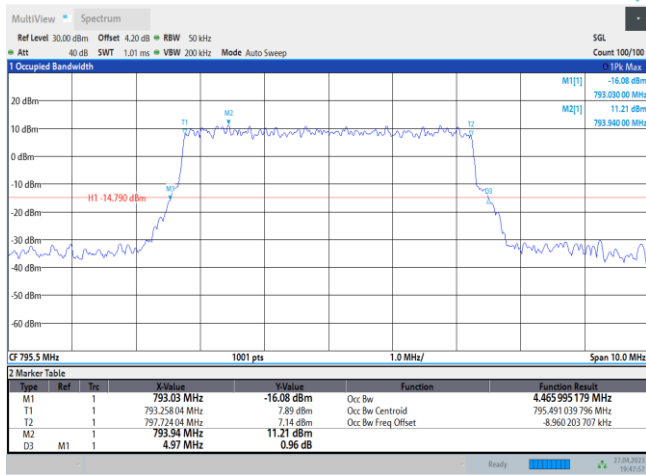
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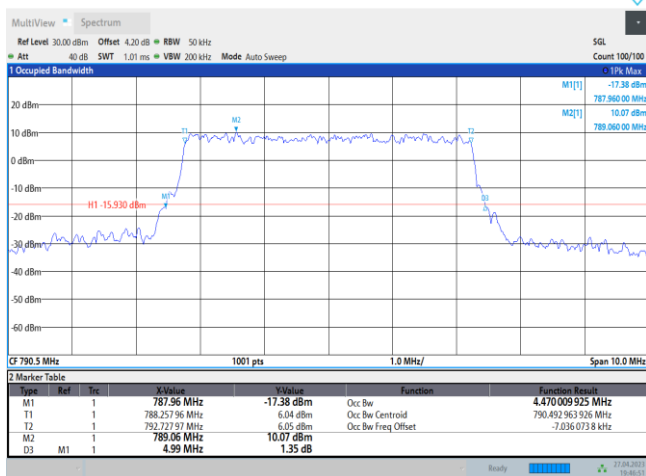
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Band14-5MHz-QPSK-23355-25RB#0



19:47:58 27.04.2023

Band14-5MHz-16QAM-23305-25RB#0



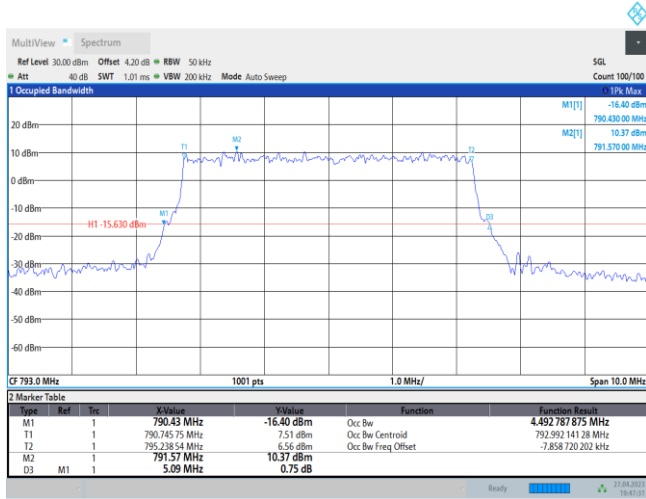
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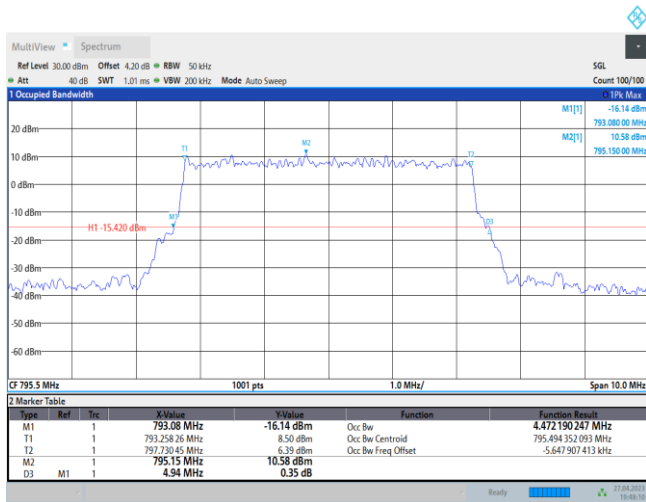
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Band14-5MHz-16QAM-23330-25RB#0



19:47:31 27.04.2023

Band14-5MHz-16QAM-23355-25RB#0



19:48:11 27.04.2023

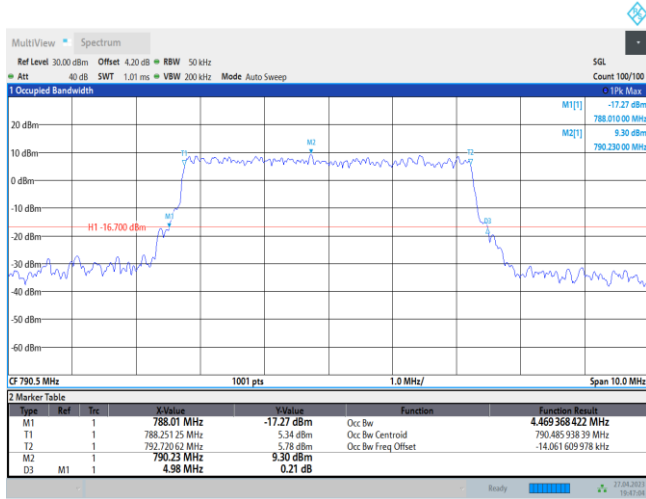


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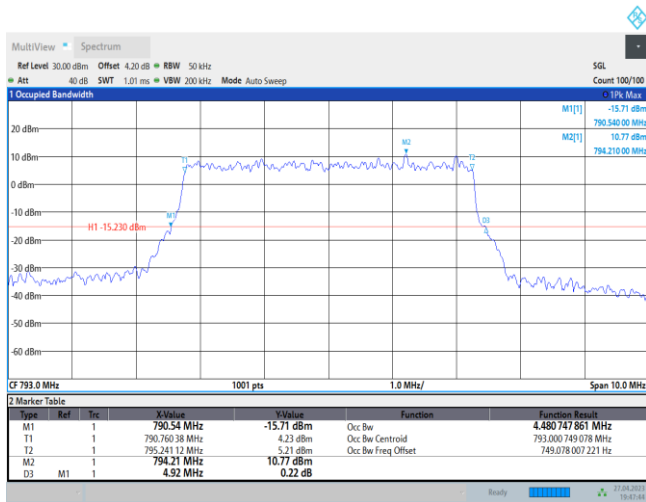
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Band14-5MHz-64QAM-23305-25RB#0



19:47:05 27.04.2023

Band14-5MHz-64QAM-23330-25RB#0



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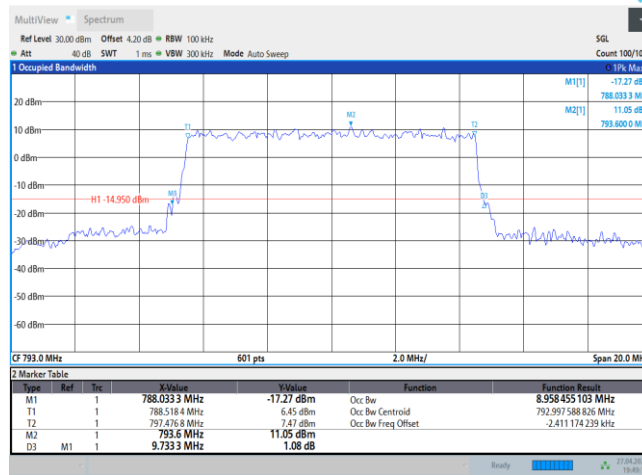
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Band14-5MHz-64QAM-23355-25RB#0



19:48:24 27.04.2023

Band14-10MHz-QPSK-23330-50RB#0



19:49:17 27.04.2023

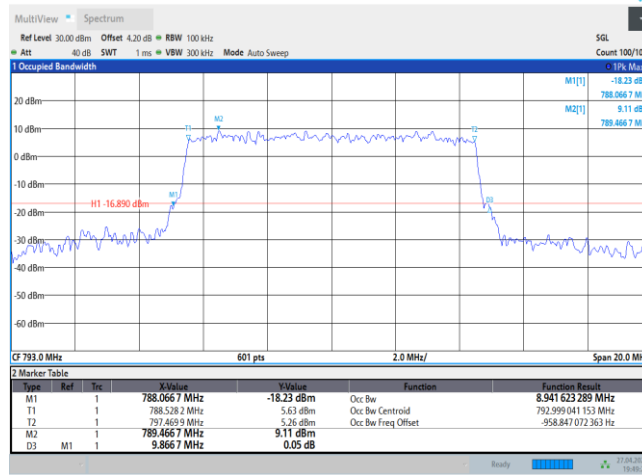


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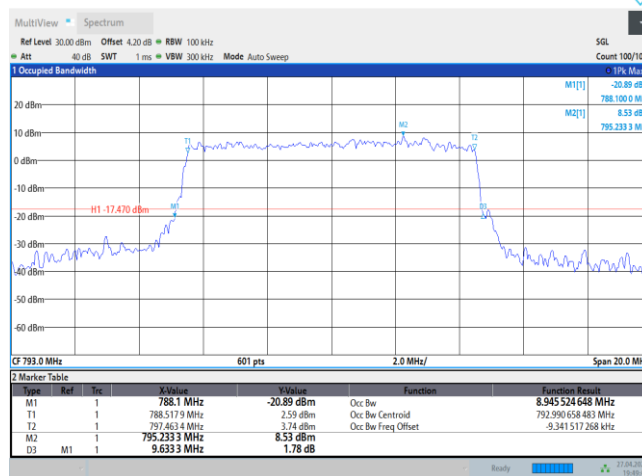
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19:49:30 27.04.2023

Band14-10MHz-64QAM-23330-50RB#0



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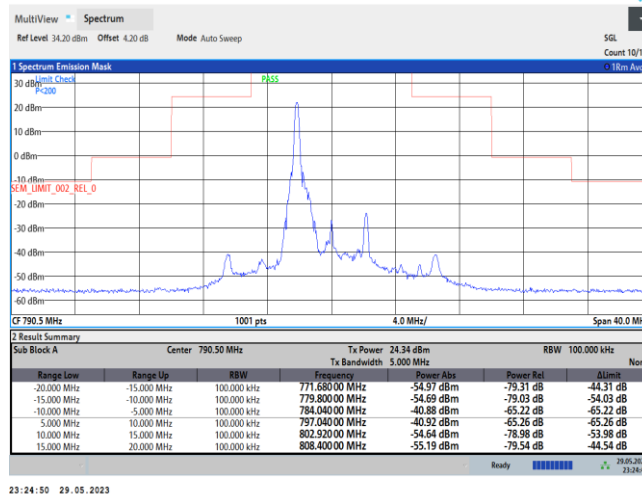
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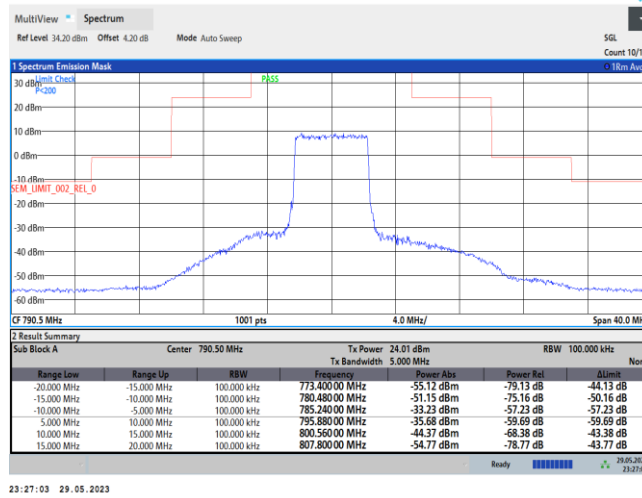
Emission Mask

Test Graphs

Band14-5MHz-QPSK-23305-1RB#0



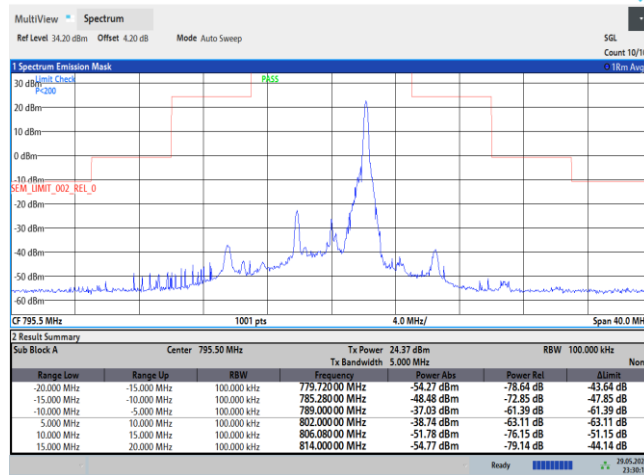
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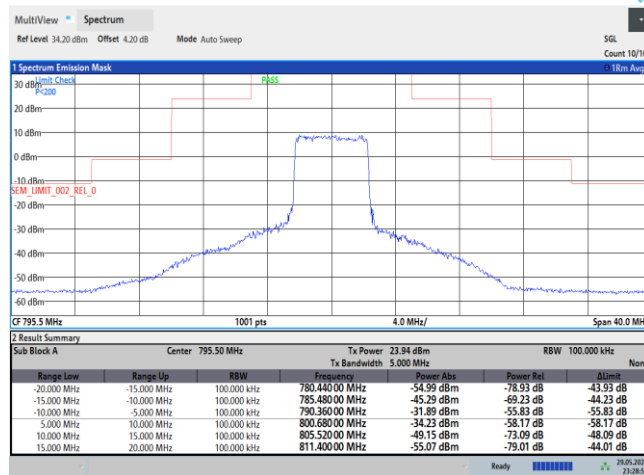
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23:30:13 29.05.2023

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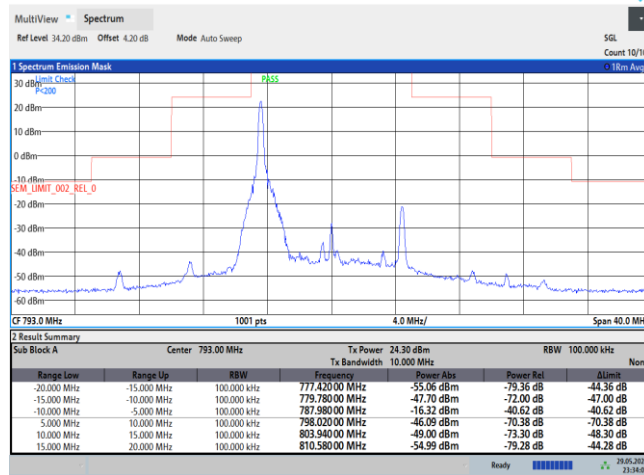
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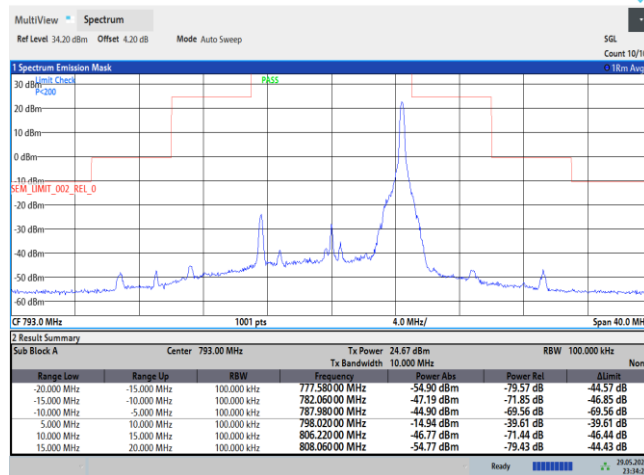
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Band14-10MHz-QPSK-23330-1RB#0



23:34:01 29.05.2023

Band14-10MHz-QPSK-23330-1RB#49



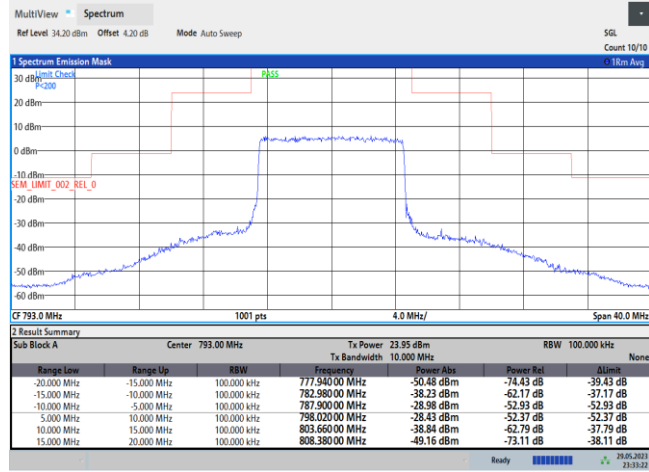
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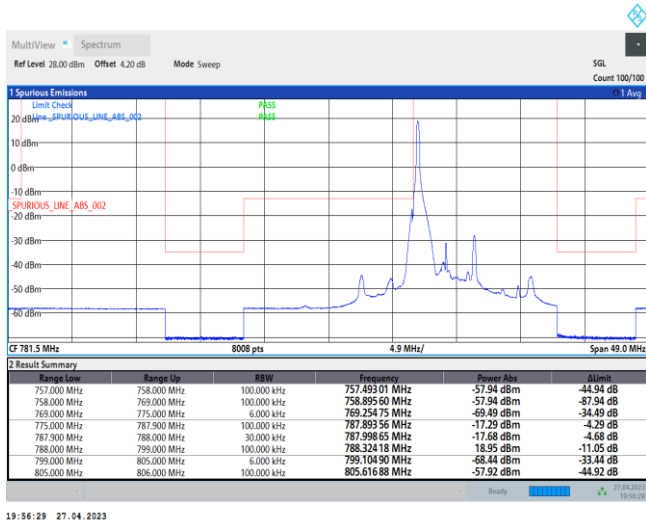
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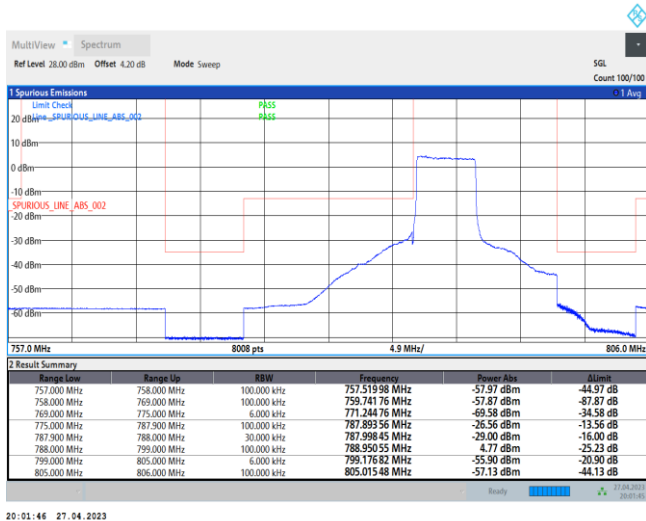
Band Edge

Test Graphs

Band14-5MHz-QPSK-23305-1RB#0



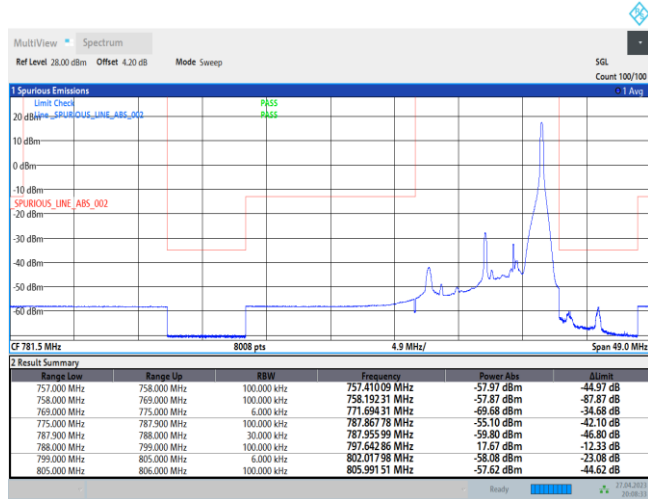
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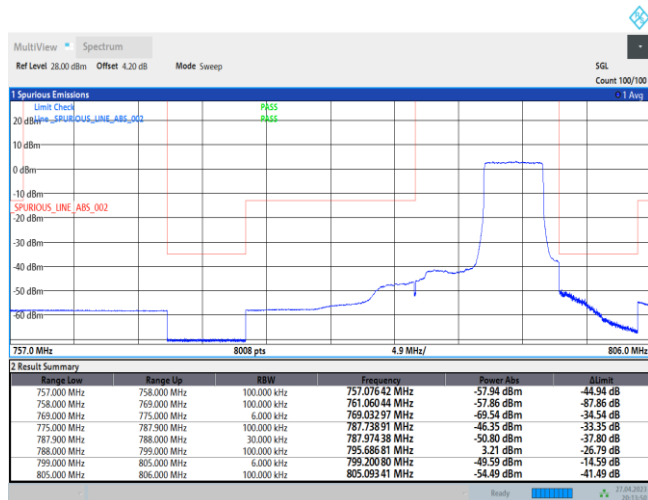
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Band14-5MHz-QPSK-23355-1RB#24



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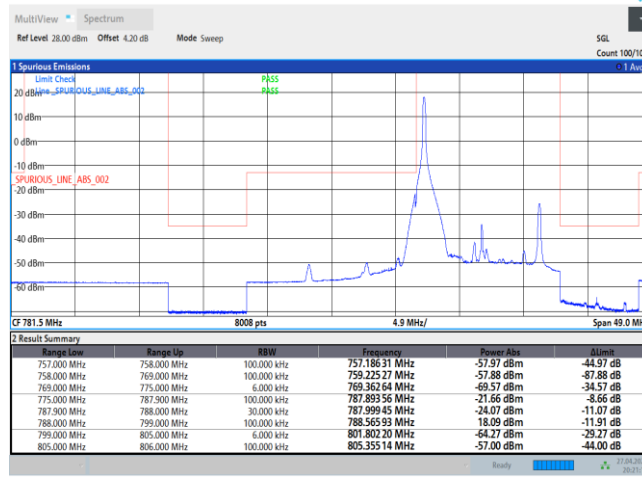
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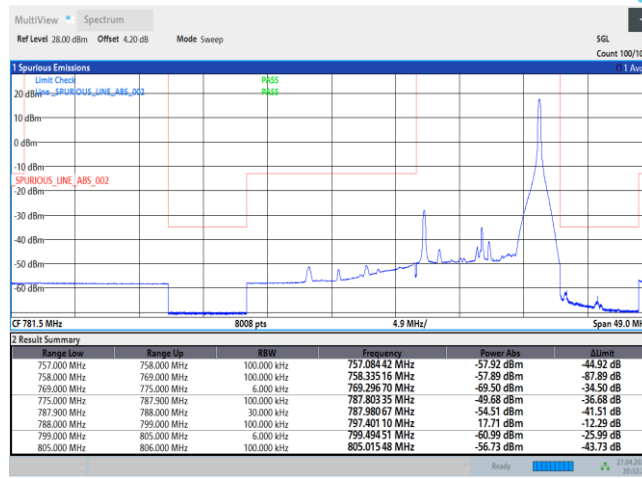
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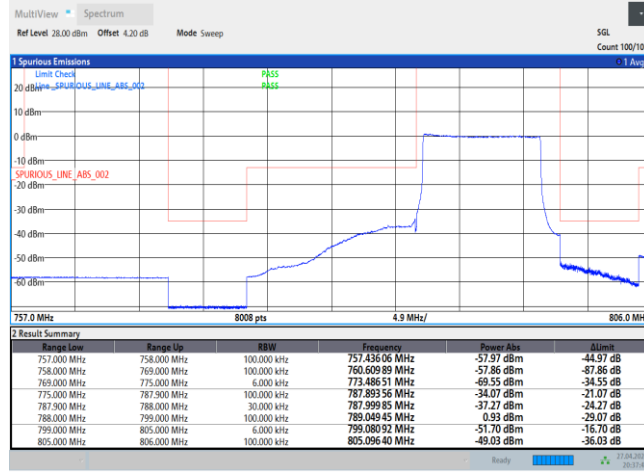
20:32:28 27. 04. 2023



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Band14-10MHz-QPSK-23330-50RB#0



20:37:44 27. 04. 2023



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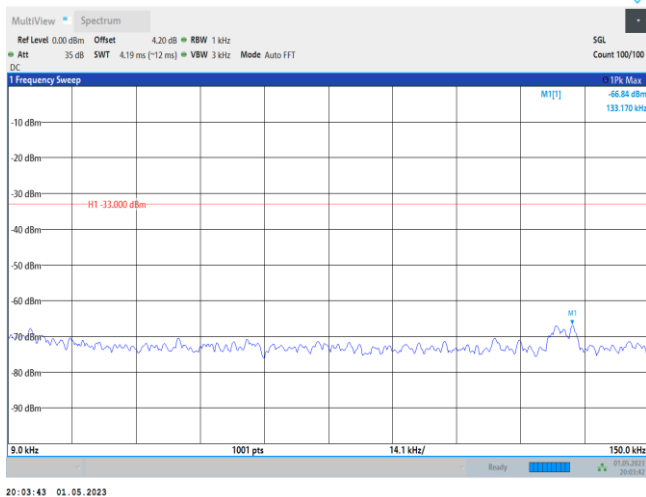
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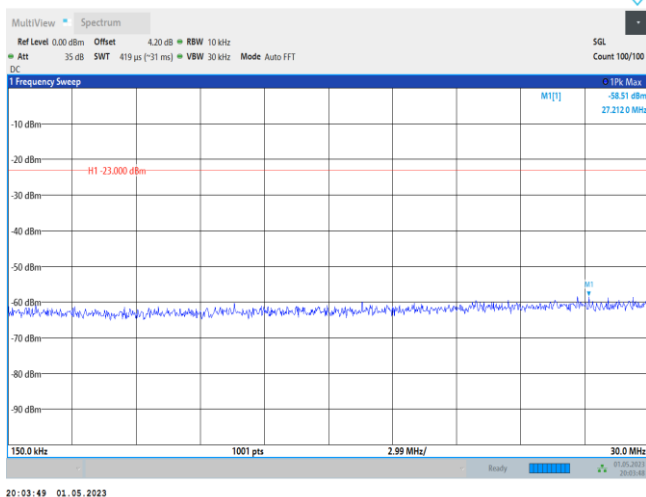
Conducted Spurious Emission

Test Graphs

Band14-10MHz-QPSK-23330-1RB#0-Range1:0.009~0.15MHz



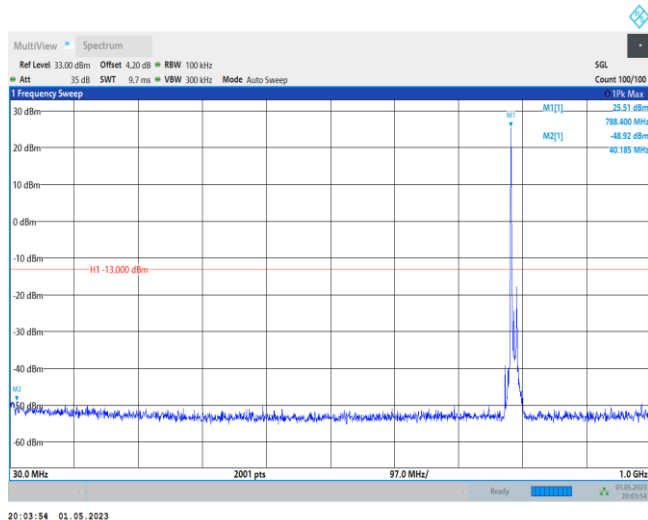
Band14-10MHz-QPSK-23330-1RB#0-Range2:0.15~30MHz



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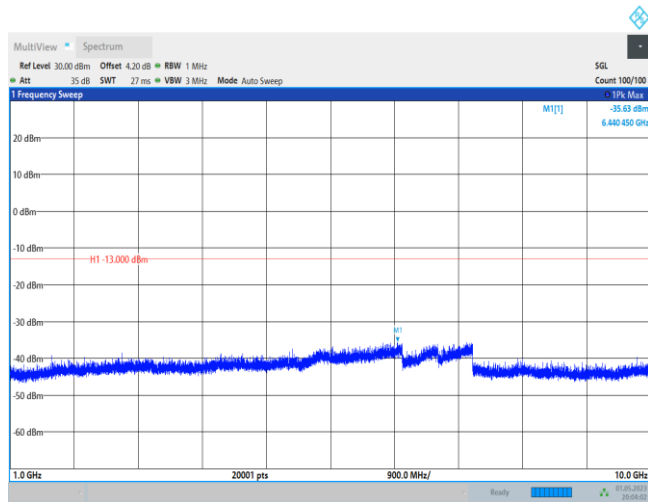
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



20:03:54 01.05.2023

Band14-10MHz-QPSK-23330-1RB#0-Range4:1000~10000MHz



20:04:02 01.05.2023



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Field Strength of Spurious Radiation

Test Band = LTE B14 _10MHz _ 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	1577.1800	44.66	-48.29	25.38	-73.51	-40.00	33.51	188	4	Horizontal
2	2365.7700	43.56	-47.47	27.42	-71.74	-13.00	58.74	124	320	Horizontal
3	3154.3600	43.03	-46.50	29.61	-69.12	-13.00	56.12	217	42	Horizontal
4	3942.9500	41.89	-46.22	30.67	-68.92	-13.00	55.92	166	28	Horizontal
5	4731.5400	41.65	-45.75	32.11	-67.25	-13.00	54.25	224	212	Horizontal
6	5520.1300	40.66	-45.17	32.93	-66.83	-13.00	53.83	187	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	1577.1800	44.91	-48.29	25.38	-73.26	-40.00	33.26	228	350	Vertical
2	2365.7700	43.86	-47.47	27.42	-71.44	-13.00	58.44	198	110	Vertical
3	3154.3600	43.11	-46.50	29.61	-69.04	-13.00	56.04	164	203	Vertical
4	3942.9500	42.10	-46.22	30.67	-68.71	-13.00	55.71	221	263	Vertical
5	4731.5400	41.94	-45.75	32.11	-66.96	-13.00	53.96	176	145	Vertical
6	5520.1300	40.70	-45.17	32.93	-66.79	-13.00	53.79	183	10	Vertical



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Test Band = LTE B14 _5MHz _ 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	1576.6800	51.83	-48.29	25.38	-66.34	-40.00	26.34	218	96	Horizontal
2	2365.0200	67.87	-47.47	27.42	-47.43	-13.00	34.43	155	268	Horizontal
3	3153.3600	44.49	-46.50	29.60	-67.67	-13.00	54.67	197	335	Horizontal
4	3941.7000	42.18	-46.22	30.66	-68.63	-13.00	55.63	203	79	Horizontal
5	4730.0400	41.74	-45.75	32.11	-67.16	-13.00	54.16	176	5	Horizontal
6	5518.3800	41.04	-45.16	32.93	-66.45	-13.00	53.45	216	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	1576.6800	50.12	-48.29	25.38	-68.05	-40.00	28.05	108	357	Vertical
2	2365.0200	58.00	-47.47	27.42	-57.30	-13.00	44.30	165	18	Vertical
3	3153.3600	43.71	-46.50	29.60	-68.45	-13.00	55.45	192	202	Vertical
4	3941.7000	42.22	-46.22	30.66	-68.59	-13.00	55.59	187	0	Vertical
5	4730.0400	41.48	-45.75	32.11	-67.42	-13.00	54.42	223	151	Vertical
6	5518.3800	40.67	-45.16	32.93	-66.82	-13.00	53.82	276	212	Vertical



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Test Band = LTE B14 _5MHz _ 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	1581.6800	57.21	-48.29	25.37	-60.96	-40.00	20.96	173	95	Horizontal
2	2372.5200	68.24	-47.46	27.43	-47.06	-13.00	34.06	181	254	Horizontal
3	3163.3600	48.16	-46.46	29.62	-63.94	-13.00	50.94	278	319	Horizontal
4	3954.2000	42.47	-46.21	30.69	-68.31	-13.00	55.31	213	17	Horizontal
5	4745.0400	41.55	-45.73	32.15	-67.29	-13.00	54.29	166	347	Horizontal
6	5535.8800	40.63	-45.19	32.95	-66.87	-13.00	53.87	172	43	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	1581.6800	56.11	-48.29	25.37	-62.06	-40.00	22.06	188	53	Vertical
2	2372.5200	55.24	-47.46	27.43	-60.06	-13.00	47.06	207	268	Vertical
3	3163.3600	44.02	-46.46	29.62	-68.08	-13.00	55.08	103	203	Vertical
4	3954.2000	42.36	-46.21	30.69	-68.42	-13.00	55.42	225	110	Vertical
5	4745.0400	41.75	-45.73	32.15	-67.09	-13.00	54.09	161	118	Vertical
6	5535.8800	41.05	-45.19	32.95	-66.45	-13.00	53.45	235	281	Vertical



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Test Band = LTE B14 _5MHz _ 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	1586.6800	44.97	-48.29	25.37	-73.21	-40.00	33.21	134	96	Horizontal
2	2380.0200	47.11	-47.46	27.43	-68.18	-13.00	55.18	199	268	Horizontal
3	3173.3600	43.77	-46.41	29.64	-68.26	-13.00	55.26	213	242	Horizontal
4	3966.7000	42.59	-46.21	30.72	-68.16	-13.00	55.16	176	242	Horizontal
5	4760.0400	41.60	-45.70	32.20	-67.16	-13.00	54.16	198	171	Horizontal
6	5553.3800	42.06	-45.21	32.97	-65.44	-13.00	52.44	221	268	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	1586.6800	44.37	-48.29	25.37	-73.81	-40.00	33.81	122	4	Vertical
2	2380.0200	44.37	-47.46	27.43	-70.92	-13.00	57.92	229	145	Vertical
3	3173.3600	43.82	-46.41	29.64	-68.21	-13.00	55.21	188	201	Vertical
4	3966.7000	42.13	-46.21	30.72	-68.62	-13.00	55.62	137	183	Vertical
5	4760.0400	41.58	-45.70	32.20	-67.18	-13.00	54.18	109	83	Vertical
6	5553.3800	41.45	-45.21	32.97	-66.05	-13.00	53.05	176	175	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
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-6.60	-0.008323	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-11.70	-0.014754	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-6.00	-0.007566	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-4.40	-0.005549	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-9.30	-0.011728	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-15.10	-0.019042	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-9.30	-0.011728	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-9.10	-0.011475	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-10.60	-0.013367	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-6.00	-0.007566	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-2.60	-0.003279	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-9.80	-0.012358	PASS

---End of Attachment---



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