

Report No.: SEWA2307000102RG01  
Rev.: 01  
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# Appendix B.10

## LTE Band 17



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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
Band17	5MHz	QPSK	23755	1RB#0	24.10	25.21	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	23.87	24.98	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	23.91	25.02	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	23.04	24.15	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	24.03	25.14	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	23.89	25.00	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	23.91	25.02	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	23.06	24.17	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	24.08	25.19	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	24.03	25.14	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	24.24	25.35	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	23.08	24.19	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	23.41	24.52	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	23.40	24.51	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	23.31	24.42	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	22.07	23.18	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	23.28	24.39	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	23.40	24.51	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	23.21	24.32	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	22.09	23.20	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	23.40	24.51	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	23.20	24.31	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	23.49	24.60	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	22.13	23.24	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	24.30	25.41	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	24.04	25.15	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	24.09	25.20	34.77	PASS



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Band17	10MHz	QPSK	23780	50RB#0	23.14	24.25	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	24.43	25.54	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	24.14	25.25	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	24.29	25.40	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	23.12	24.23	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	24.42	25.53	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	24.09	25.20	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	24.33	25.44	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	23.07	24.18	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	23.59	24.70	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	23.44	24.55	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	23.50	24.61	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	22.21	23.32	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	23.62	24.73	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	23.45	24.56	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	23.42	24.53	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	22.21	23.32	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	23.68	24.79	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	23.41	24.52	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	23.54	24.65	34.77	PASS
Band17	10MHz	16QAM	23800	50RB#0	22.10	23.21	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
Band17	10MHz	QPSK	23780	50RB#0	5.16	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.16	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.24	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.00	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	5.96	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.04	13	PASS



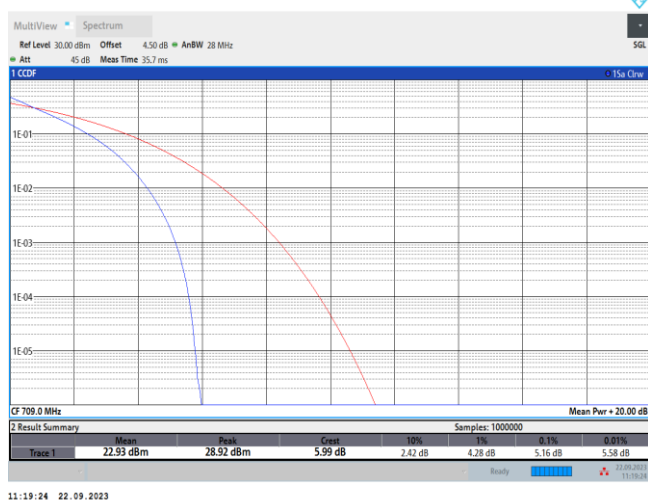
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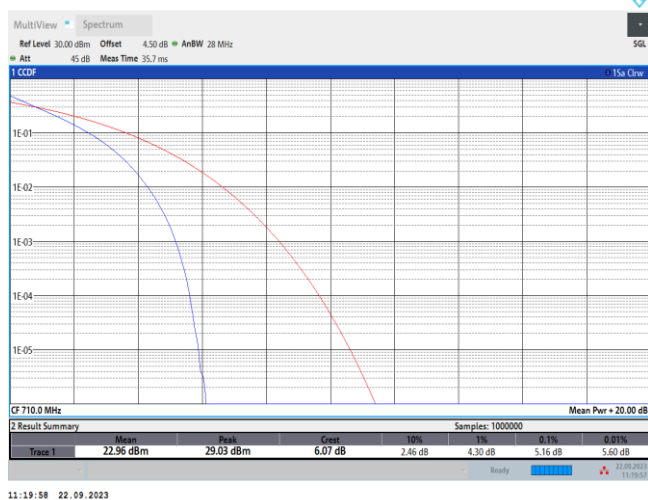
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Test Graphs

Band17-10MHz-QPSK-23780-50RB#0



Band17-10MHz-QPSK-23790-50RB#0

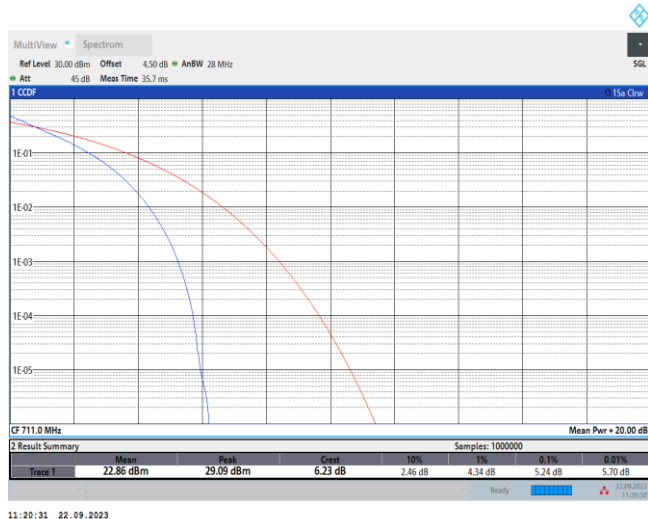


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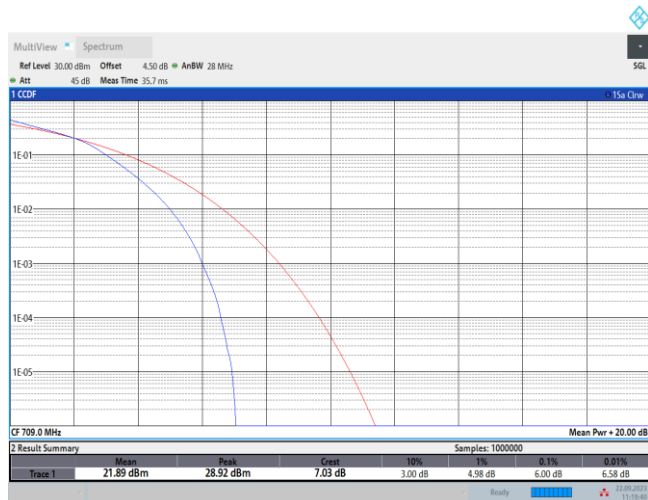
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Band17-10MHz-QPSK-23800-50RB#0



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Band17-10MHz-16QAM-23780-50RB#0



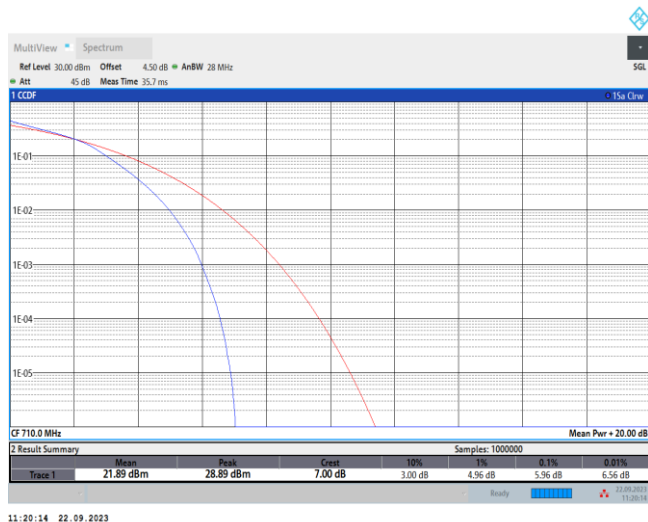
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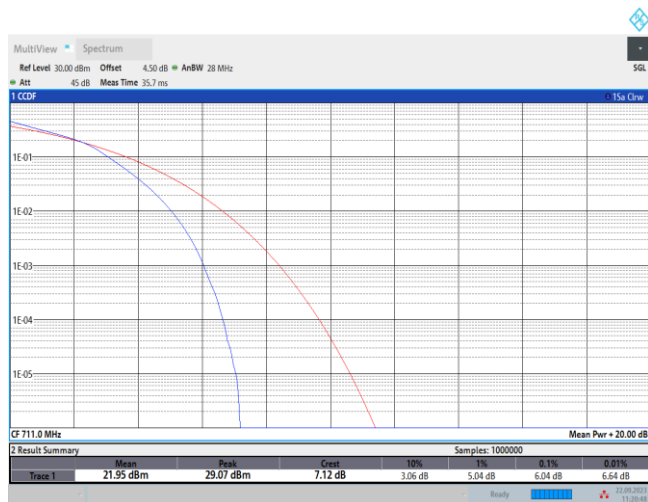
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Band17-10MHz-16QAM-23790-50RB#0



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Band17-10MHz-16QAM-23800-50RB#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
Band17	5MHz	QPSK	23790	25RB#0	4.471	4.91	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.471	4.98	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.941	9.70	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.925	9.73	PASS



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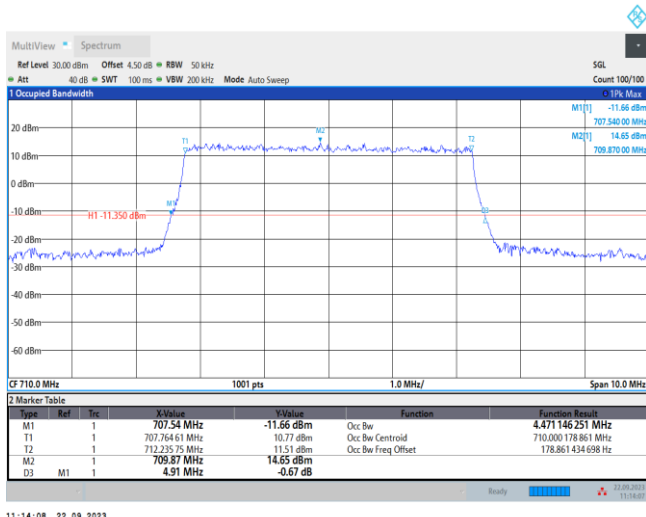
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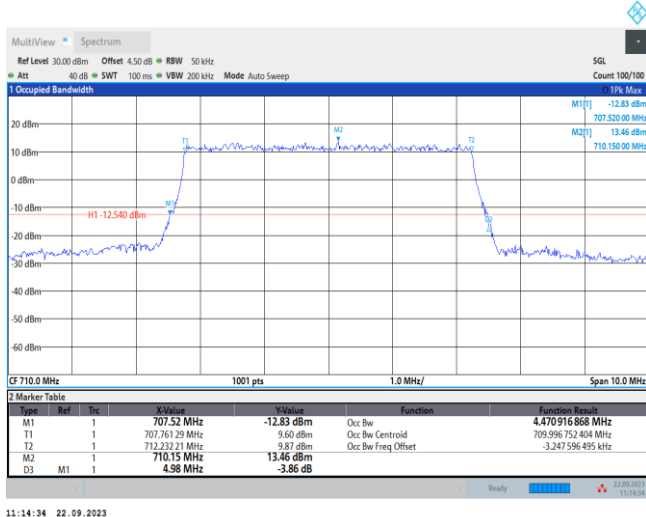


Test Graphs

Band17-5MHz-QPSK-23790-25RB#0



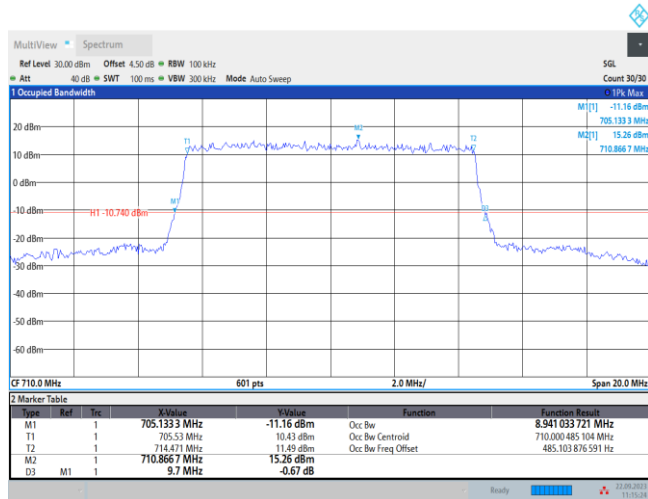
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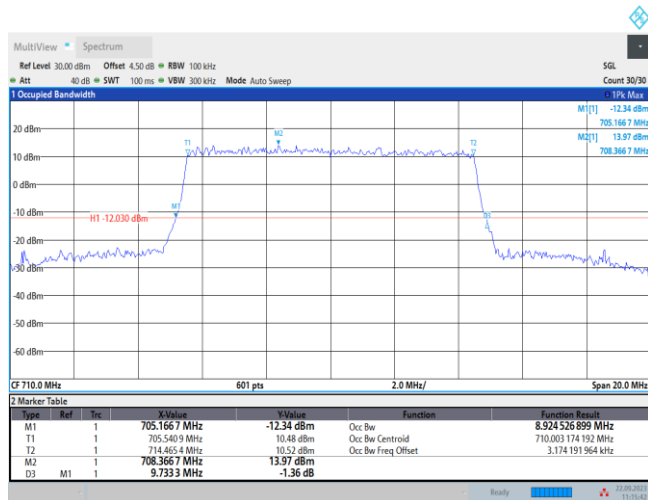
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Band17-10MHz-16QAM-23790-50RB#0



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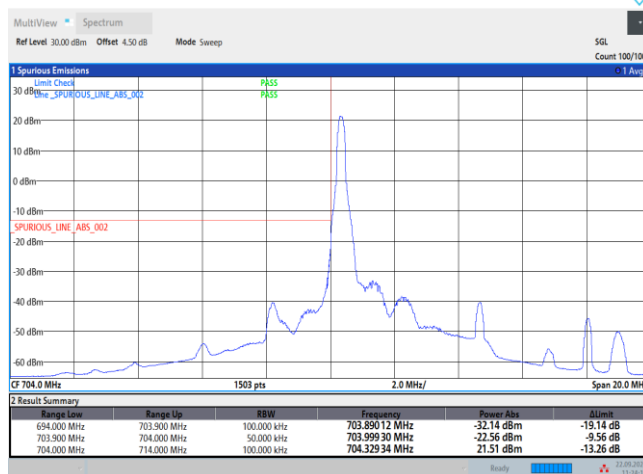
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## Band Edge

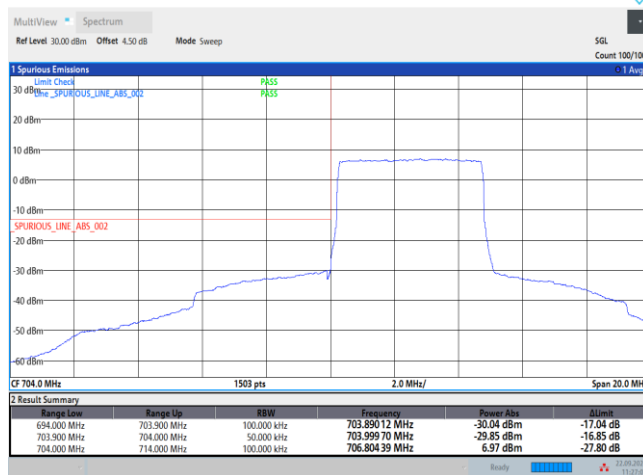
## Test Graphs

Band17-5MHz-QPSK-23755-1RB#0



11:24:19 22.09.2023

Band17-5MHz-QPSK-23755-25RB#0



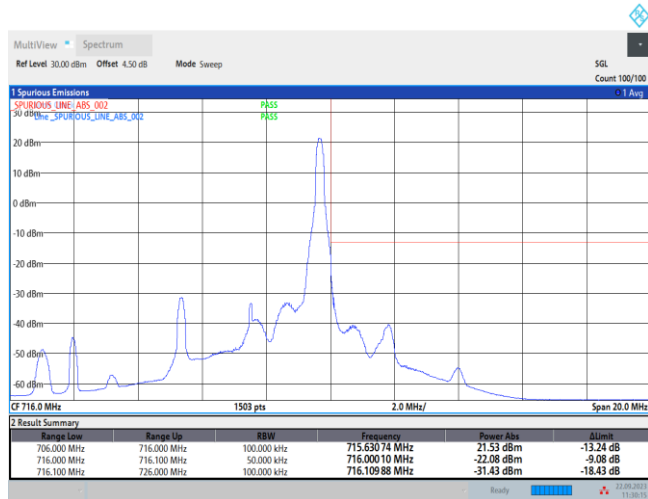
11:27:03 22.09.2023



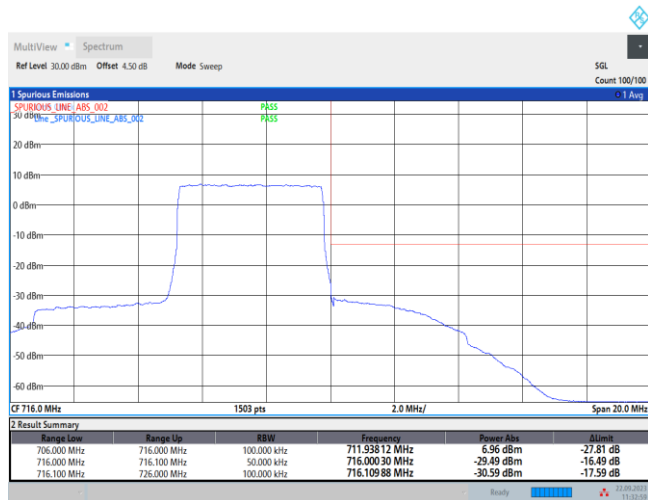
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Band17-5MHz-QPSK-23825-1RB#24



Band17-5MHz-QPSK-23825-25RB#0

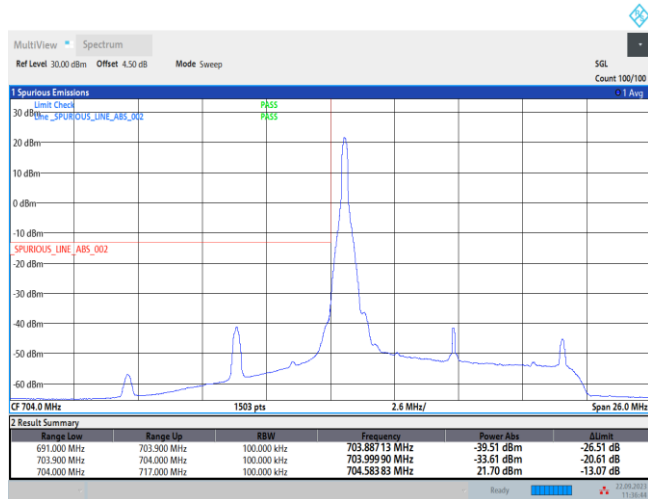


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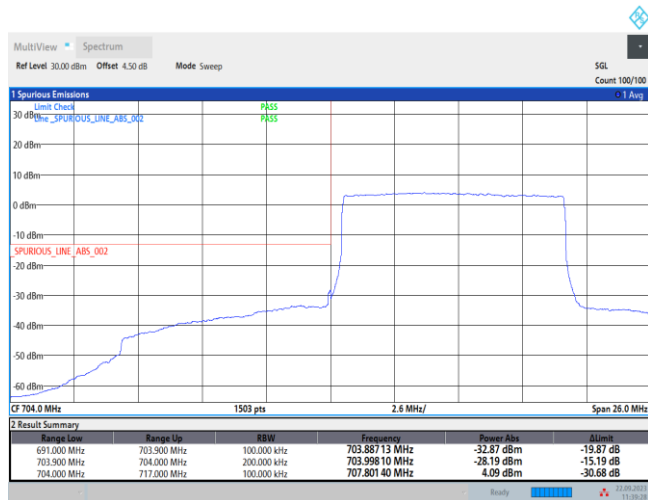
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Band17-10MHz-QPSK-23780-1RB#0



11:36:45 22.09.2023

Band17-10MHz-QPSK-23780-50RB#0



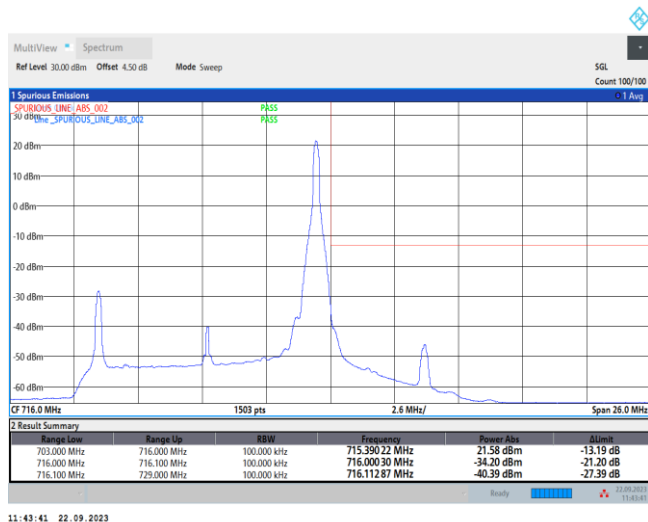
11:39:29 22.09.2023



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Band17-10MHz-QPSK-23800-1RB#49



11:43:41 22.09.2023

Band17-10MHz-QPSK-23800-50RB#0



11:44:25 22.09.2023



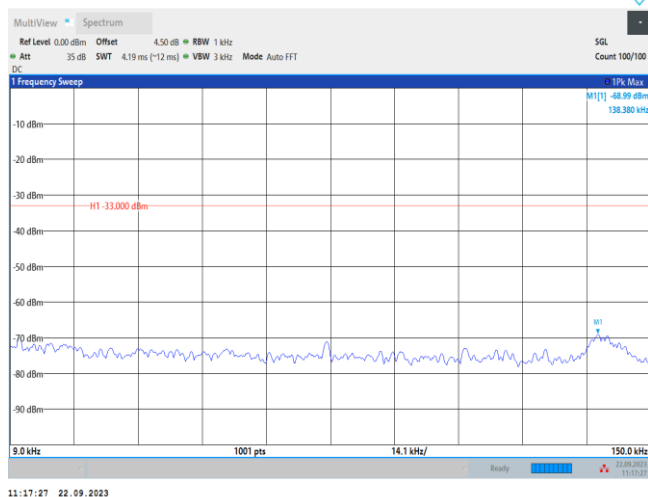
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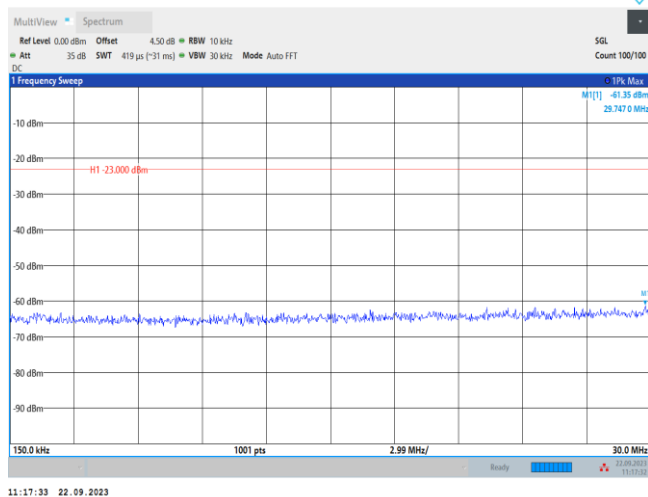
## Conducted Spurious Emission

### Test Graphs

Band17-10MHz-QPSK-23780-1RB#0-Range1:0.009~0.15MHz



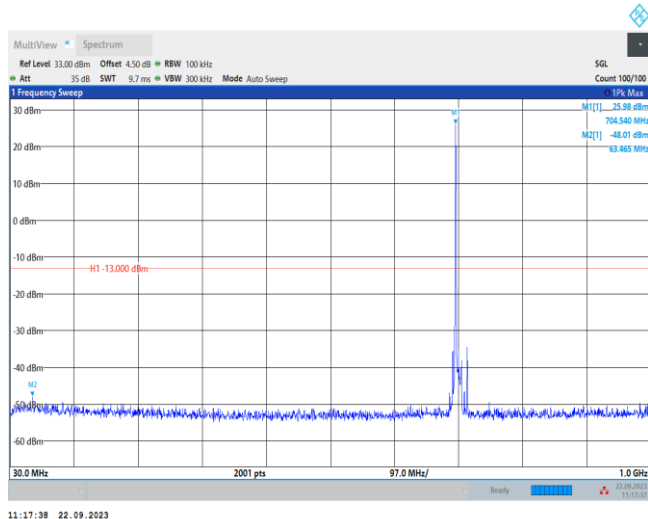
Band17-10MHz-QPSK-23780-1RB#0-Range2:0.15~30MHz



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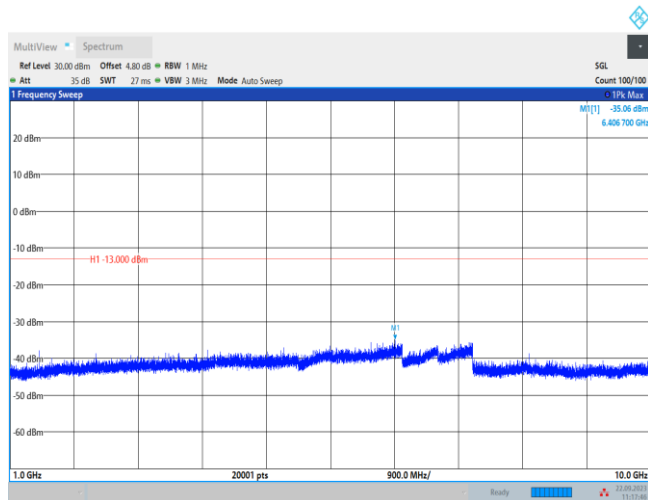
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



11:17:38 22.09.2023

Band17-10MHz-QPSK-23780-1RB#0-Range4:1000~10000MHz



11:17:46 22.09.2023

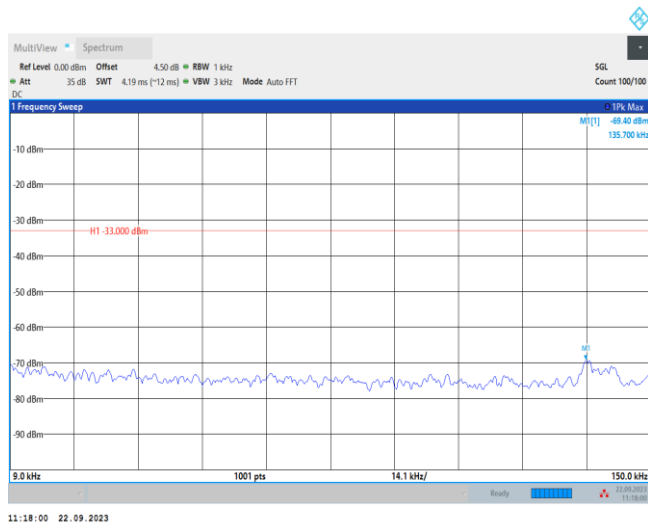


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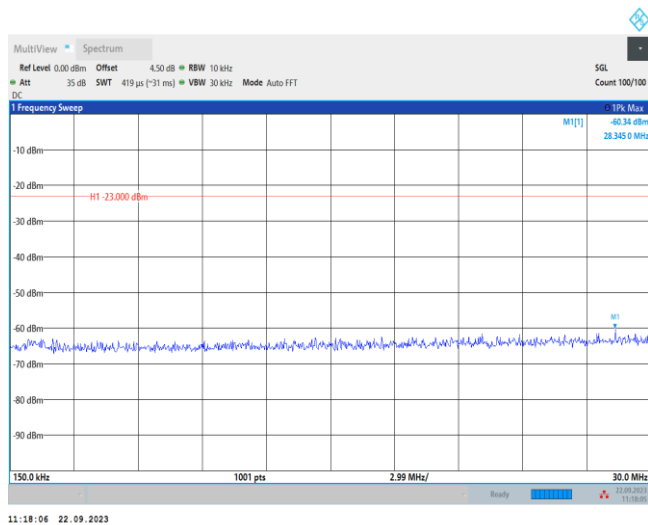
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz

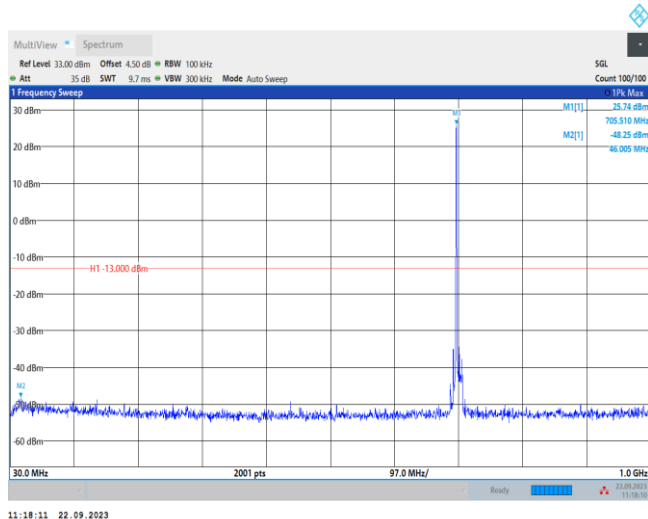


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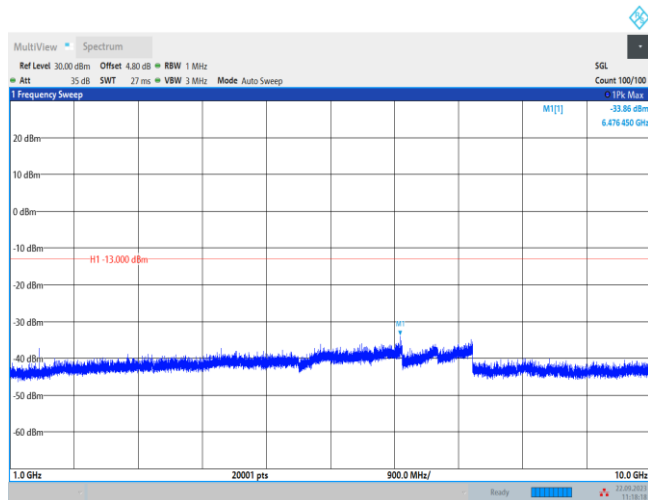
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Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



11:18:11 22.09.2023

Band17-10MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz



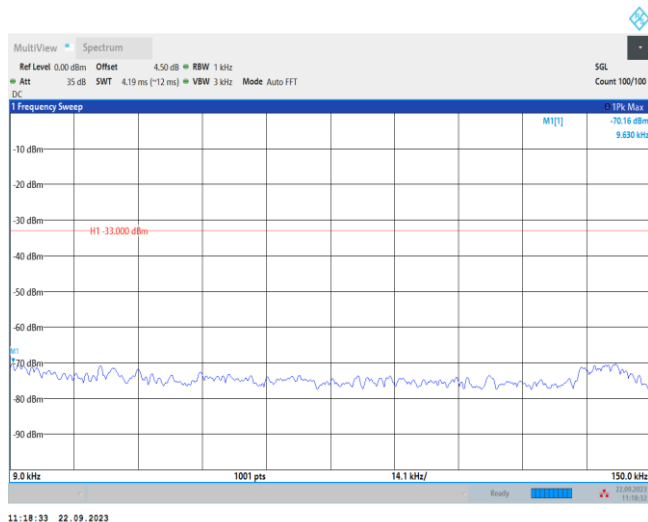
11:18:19 22.09.2023



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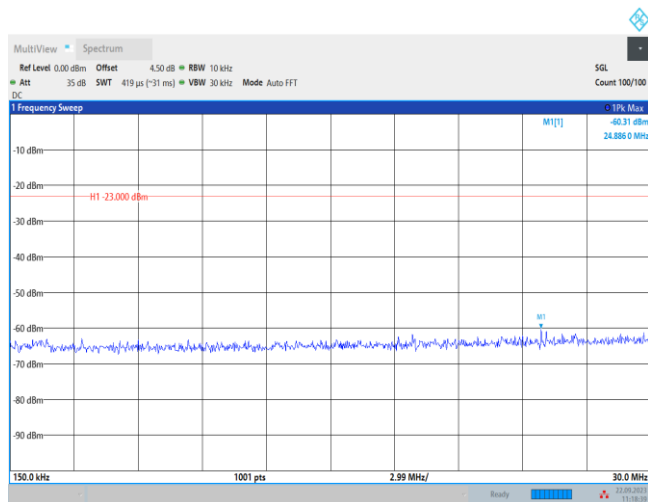
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



11:18:33 22.09.2023

Band17-10MHz-QPSK-23800-1RB#0-Range2:0.15~30MHz

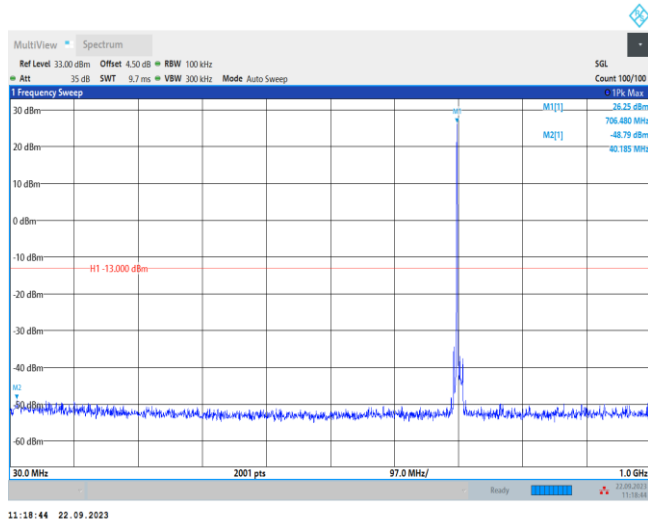


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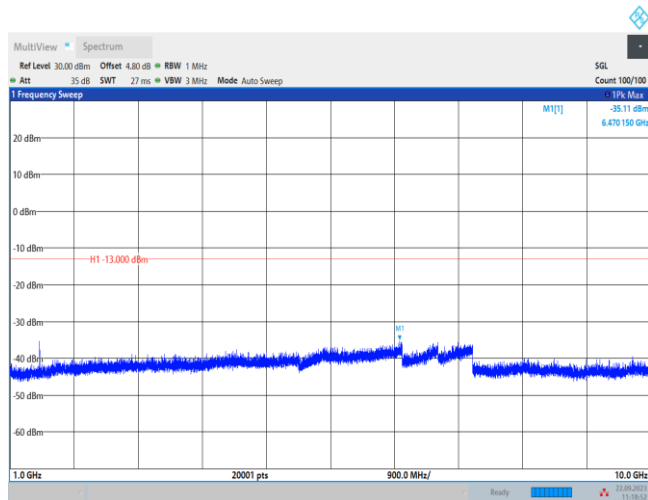
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



11:18:44 22.09.2023

Band17-10MHz-QPSK-23800-1RB#0-Range4:1000~10000MHz



11:18:52 22.09.2023



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## Field Strength of Spurious Radiation

Test Band = LTE Band 17\_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.1800	42.17	-48.03	25.10	-76.02	-13.00	63.02	Horizontal
2	2113.7700	41.01	-47.71	26.22	-75.74	-13.00	62.74	Horizontal
3	2818.3600	41.99	-46.85	27.94	-72.19	-13.00	59.19	Horizontal
4	3522.9500	41.64	-46.49	28.62	-71.49	-13.00	58.49	Horizontal
5	4227.5400	40.03	-45.91	29.65	-71.49	-13.00	58.49	Horizontal
6	4932.1300	40.83	-45.65	31.25	-68.83	-13.00	55.83	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1409.1800	44.07	-48.03	25.10	-74.12	-13.00	61.12	Vertical
2	2113.7700	42.32	-47.71	26.22	-74.43	-13.00	61.43	Vertical
3	2818.3600	42.47	-46.85	27.94	-71.71	-13.00	58.71	Vertical
4	3522.9500	42.23	-46.49	28.62	-70.90	-13.00	57.90	Vertical
5	4227.5400	40.41	-45.91	29.65	-71.11	-13.00	58.11	Vertical
6	4932.1300	41.45	-45.65	31.25	-68.21	-13.00	55.21	Vertical



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**Test Band = LTE Band 17\_ TM1**

**Test Channel = Mid**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.1800	41.96	-48.04	25.11	-76.23	-13.00	63.23	Horizontal
2	2116.7700	41.27	-47.70	26.23	-75.47	-13.00	62.47	Horizontal
3	2822.3600	41.38	-46.84	27.95	-72.77	-13.00	59.77	Horizontal
4	3527.9500	41.38	-46.48	28.63	-71.74	-13.00	58.74	Horizontal
5	4233.5400	39.84	-45.90	29.66	-71.66	-13.00	58.66	Horizontal
6	4939.1300	40.28	-45.67	31.27	-69.38	-13.00	56.38	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1411.1800	43.35	-48.04	25.11	-74.84	-13.00	61.84	Vertical
2	2116.7700	42.50	-47.70	26.23	-74.24	-13.00	61.24	Vertical
3	2822.3600	42.55	-46.84	27.95	-71.60	-13.00	58.60	Vertical
4	3527.9500	41.88	-46.48	28.63	-71.24	-13.00	58.24	Vertical
5	4233.5400	40.43	-45.90	29.66	-71.07	-13.00	58.07	Vertical
6	4939.1300	41.10	-45.67	31.27	-68.56	-13.00	55.56	Vertical



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**Test Band = LTE Band 17\_ TM1**

**Test Channel = High**

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	42.47	-48.04	25.11	-75.73	-13.00	62.73	Horizontal
2	2119.7700	41.66	-47.70	26.24	-75.07	-13.00	62.07	Horizontal
3	2826.3600	41.02	-46.83	27.95	-73.11	-13.00	60.11	Horizontal
4	3532.9500	41.31	-46.47	28.63	-71.79	-13.00	58.79	Horizontal
5	4239.5400	40.38	-45.89	29.68	-71.09	-13.00	58.09	Horizontal
6	4946.1300	40.38	-45.69	31.28	-69.28	-13.00	56.28	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1413.1800	44.33	-48.04	25.11	-73.87	-13.00	60.87	Vertical
2	2119.7700	42.34	-47.70	26.24	-74.39	-13.00	61.39	Vertical
3	2826.3600	42.81	-46.83	27.95	-71.32	-13.00	58.32	Vertical
4	3532.9500	42.30	-46.47	28.63	-70.80	-13.00	57.80	Vertical
5	4239.5400	40.85	-45.89	29.68	-70.62	-13.00	57.62	Vertical
6	4946.1300	41.75	-45.69	31.28	-67.91	-13.00	54.91	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
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	0.30	0.000423	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	1.10	0.001549	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	0.50	0.000704	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	0.20	0.000282	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	1.20	0.001690	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	-1.60	-0.002254	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	0.50	0.000704	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	-1.70	-0.002394	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	1.40	0.001972	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	0.30	0.000423	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	0.90	0.001268	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	0.30	0.000423	PASS

---End of Attachment---



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