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Rev.: 02  
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# Appendix B.6

## LTE Band 13



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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
Band13	5MHz	QPSK	23205	1RB#0	24.71	22.55	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.80	22.64	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.81	22.65	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.81	21.65	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	24.74	22.58	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.83	22.67	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.76	22.6	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.89	21.73	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	24.85	22.69	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.72	22.56	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.67	22.51	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.84	21.68	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.99	21.83	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	24.06	21.9	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	24.11	21.95	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.87	20.71	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	24.04	21.88	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	24.11	21.95	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	24.04	21.88	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.95	20.79	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	24.00	21.84	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	24.06	21.9	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.88	21.72	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.91	20.75	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	22.87	20.71	34.77	PASS



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Band13	5MHz	64QAM	23205	1RB#12	22.98	20.82	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	22.98	20.82	34.77	PASS
Band13	5MHz	64QAM	23205	25RB#0	21.81	19.65	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	23.00	20.84	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	22.96	20.8	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	22.92	20.76	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	21.90	19.74	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	23.06	20.9	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	22.84	20.68	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	22.79	20.63	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	21.86	19.7	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	24.70	22.54	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	24.81	22.65	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	24.63	22.47	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	23.87	21.71	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	24.03	21.87	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	24.13	21.97	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.96	21.8	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.92	20.76	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	22.93	20.77	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	23.07	20.91	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	22.80	20.64	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	21.92	19.76	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
Band13	10MHz	QPSK	23230	50RB#0	5.48	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	6.32	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.62	13	PASS



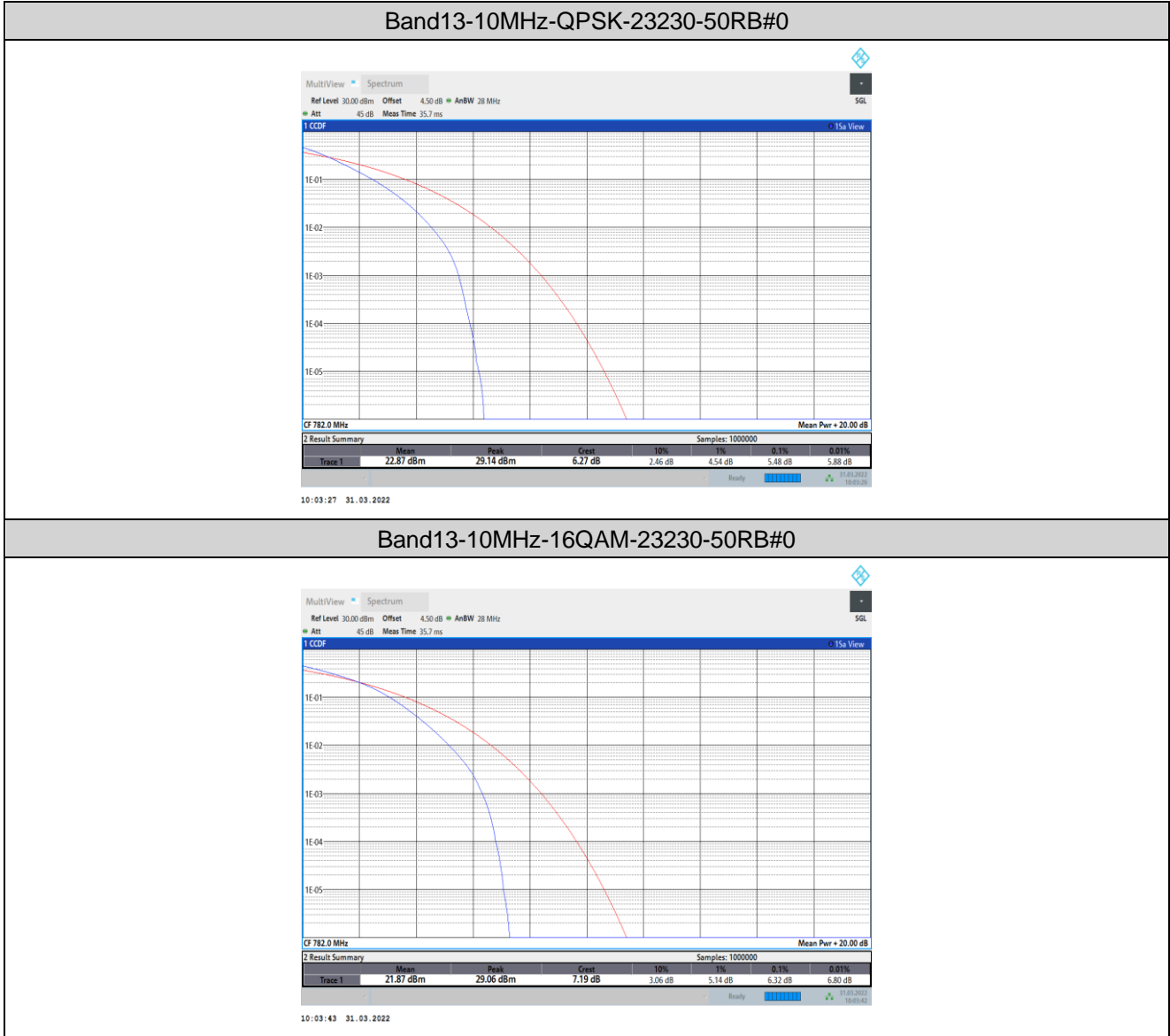
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Test Graphs

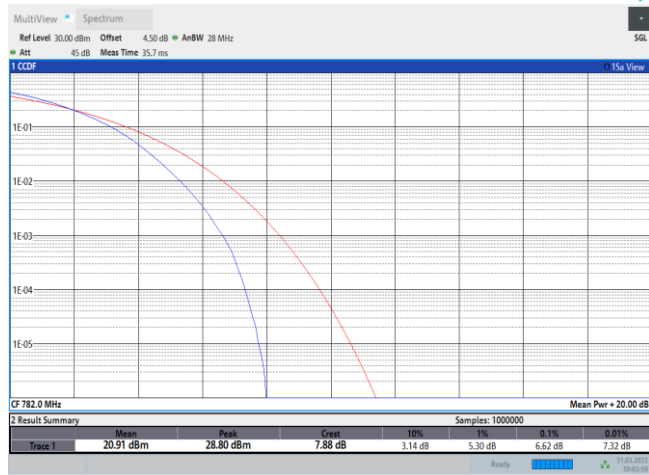


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Band13-10MHz-64QAM-23230-50RB#0



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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band13	10MHz	QPSK	23230	50RB#0	PASS	PASS
Band13	10MHz	16QAM	23230	50RB#0	PASS	PASS
Band13	10MHz	64QAM	23230	50RB#0	PASS	PASS



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Test Graphs

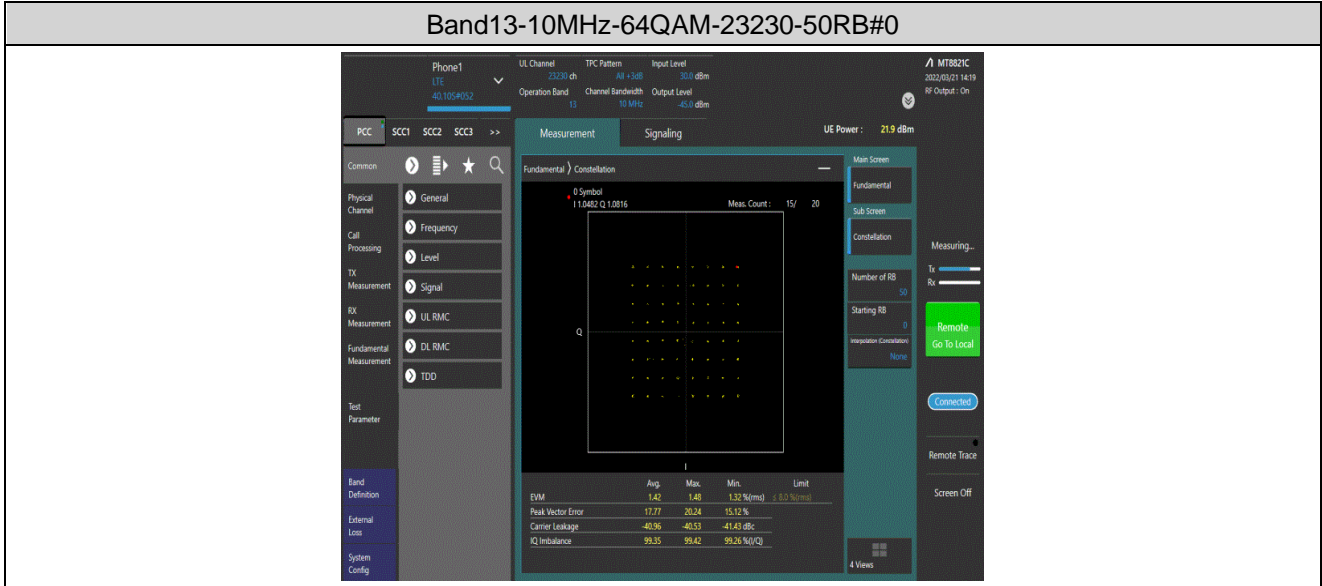


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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.469	4.89	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.467	4.89	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.47	4.91	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.471	4.89	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.471	4.90	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.471	4.91	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.475	4.90	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.481	4.90	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.482	4.90	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.924	9.58	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.908	9.60	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.926	9.64	PASS



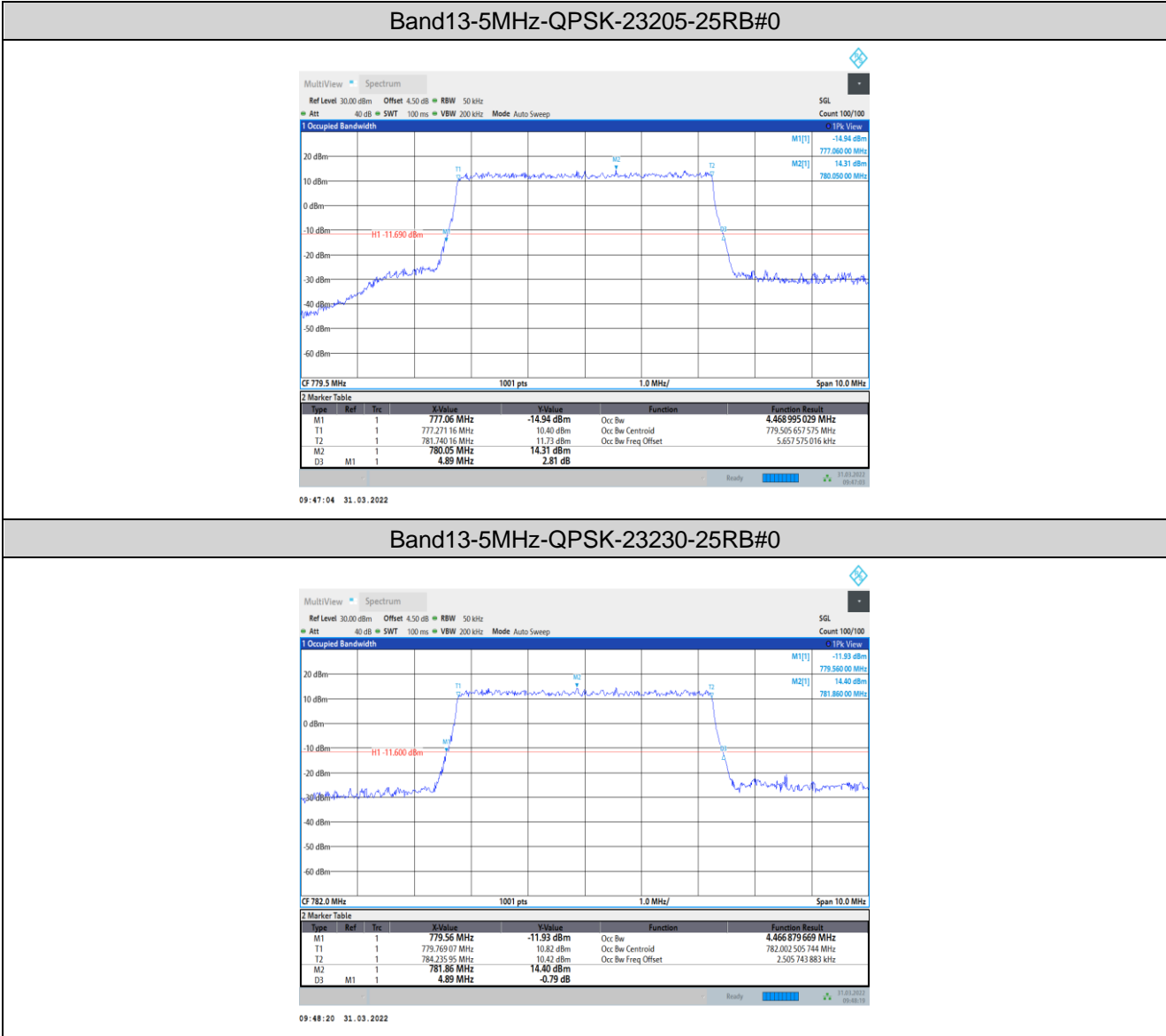
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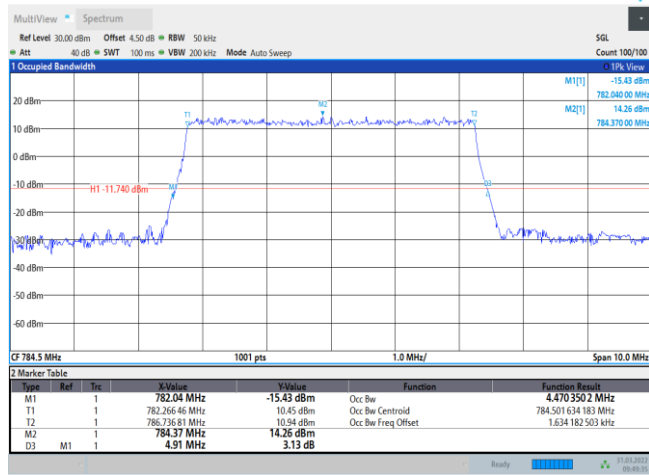


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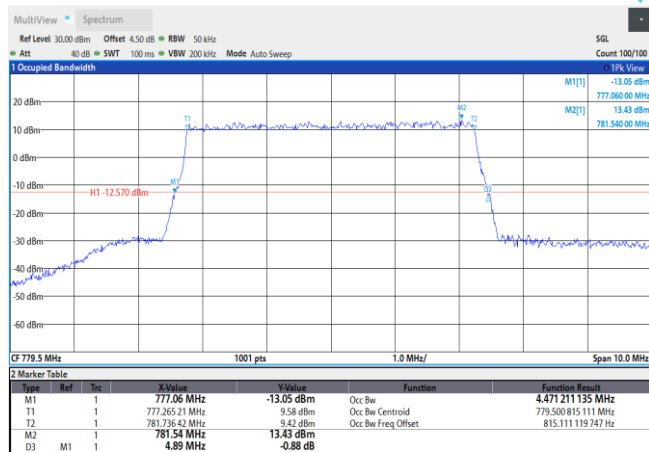
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Band13-5MHz-QPSK-23255-25RB#0



09:49:35 31.03.2022

Band13-5MHz-16QAM-23205-25RB#0



09:47:29 31.03.2022

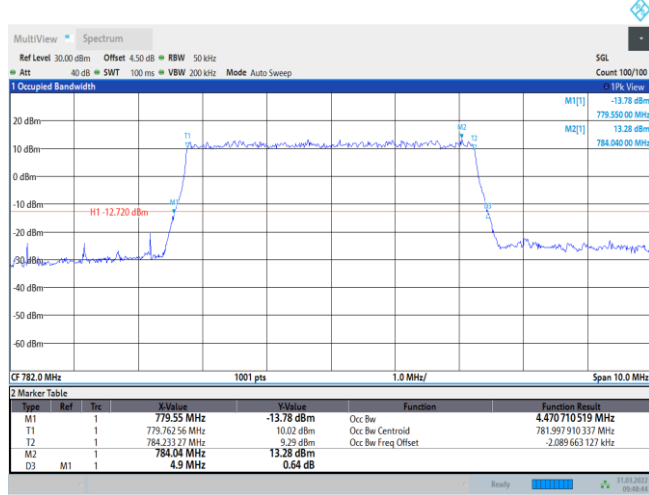


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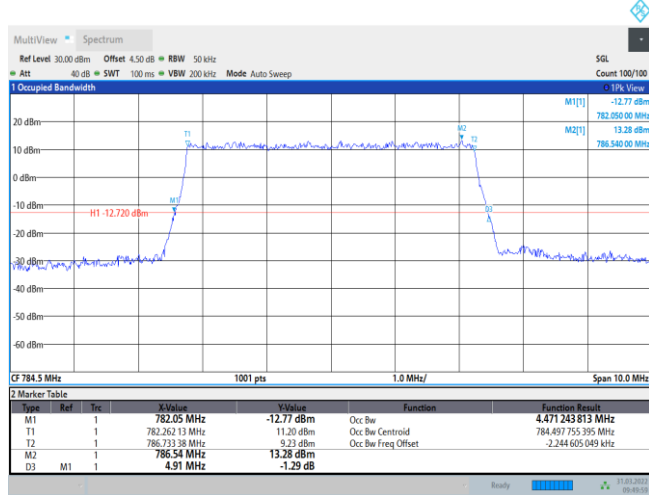
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Band13-5MHz-16QAM-23230-25RB#0



09:48:45 31.03.2022

Band13-5MHz-16QAM-23255-25RB#0



09:50:00 31.03.2022

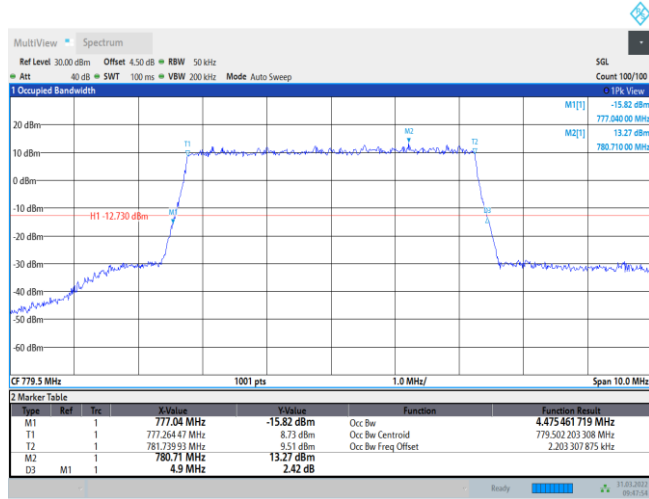


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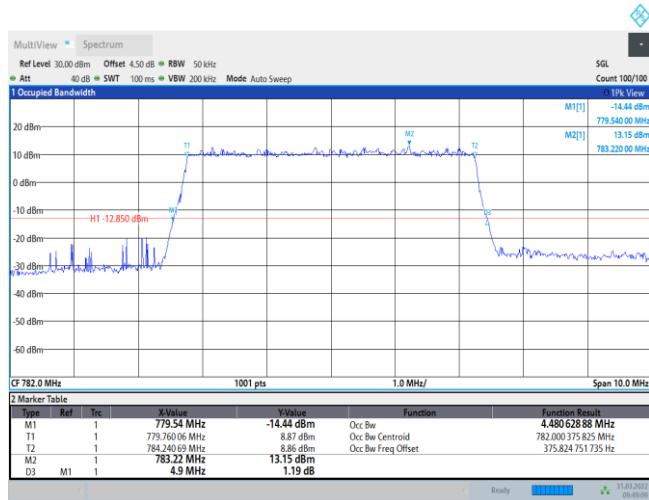
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Band13-5MHz-64QAM-23205-25RB#0



09:47:54 31.03.2022

Band13-5MHz-64QAM-23230-25RB#0



09:49:10 31.03.2022

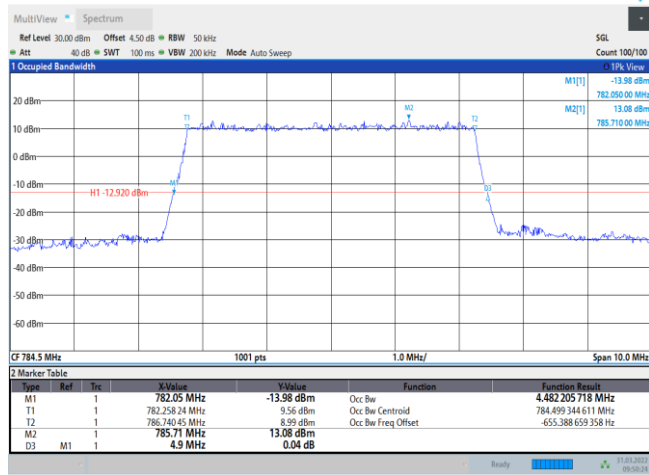


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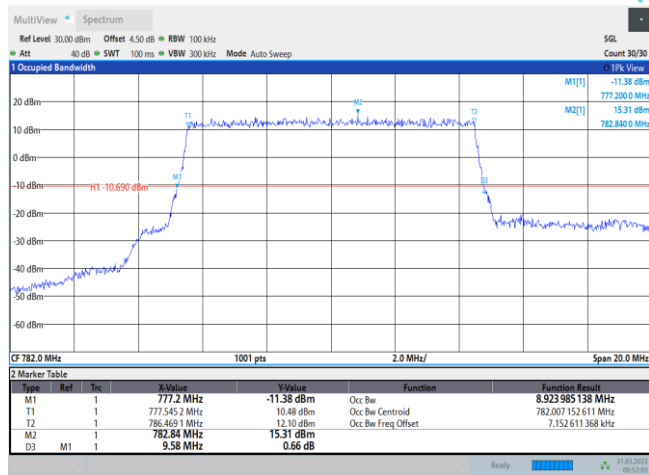
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Band13-5MHz-64QAM-23255-25RB#0



09:50:25 31.03.2022

Band13-10MHz-QPSK-23230-50RB#0

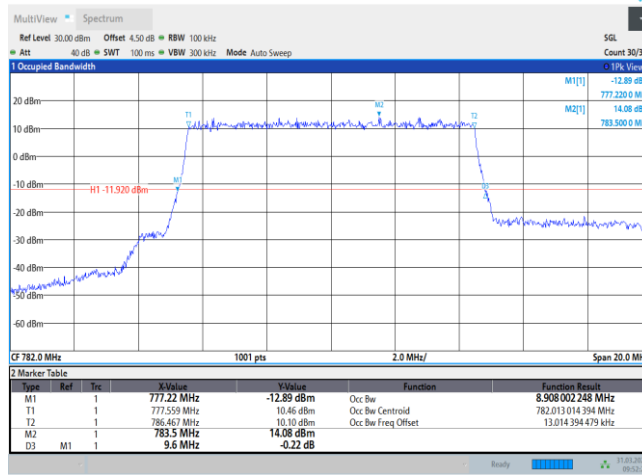


09:52:03 31.03.2022



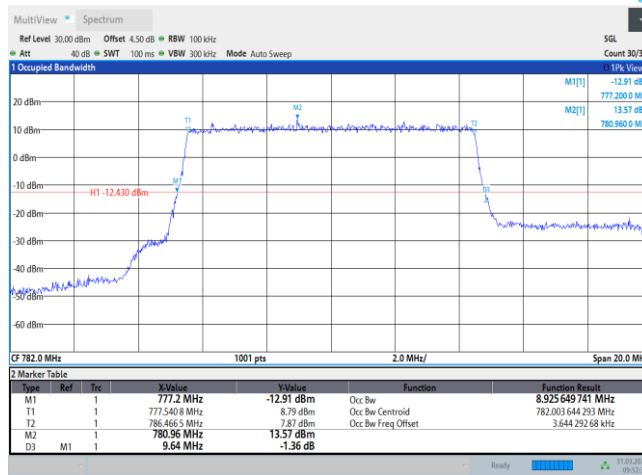
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Band13-10MHz-16QAM-23230-50RB#0



09:52:21 31.03.2022

Band13-10MHz-64QAM-23230-50RB#0



09:52:39 31.03.2022



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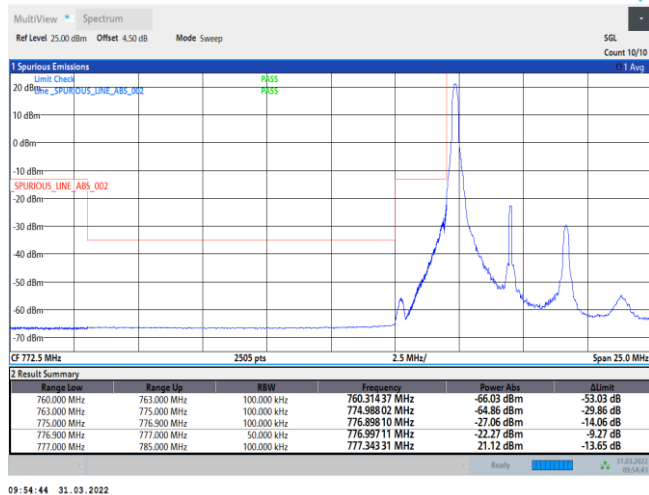
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## Band Edge

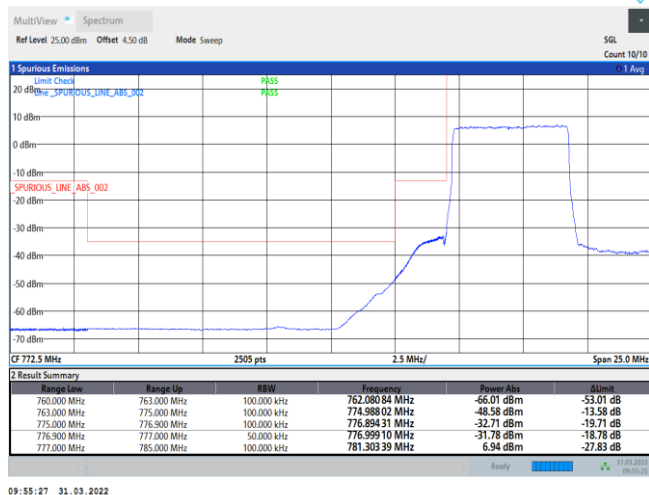
## Test Graphs

### Band13-5MHz-QPSK-23205-1RB#0



09:54:44 31.03.2022

### Band13-5MHz-QPSK-23205-25RB#0



09:55:27 31.03.2022

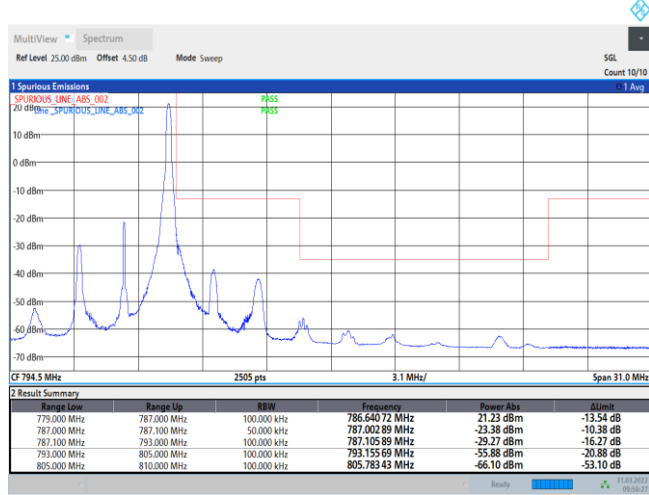


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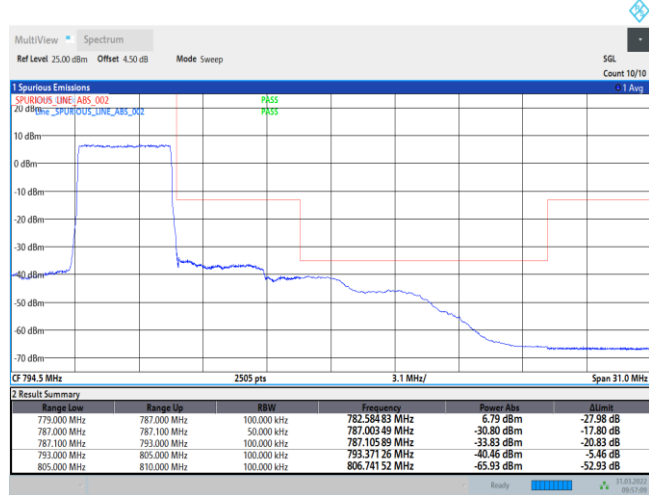
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Band13-5MHz-QPSK-23255-1RB#24



09:56:27 31. 03. 2022

Band13-5MHz-QPSK-23255-25RB#0



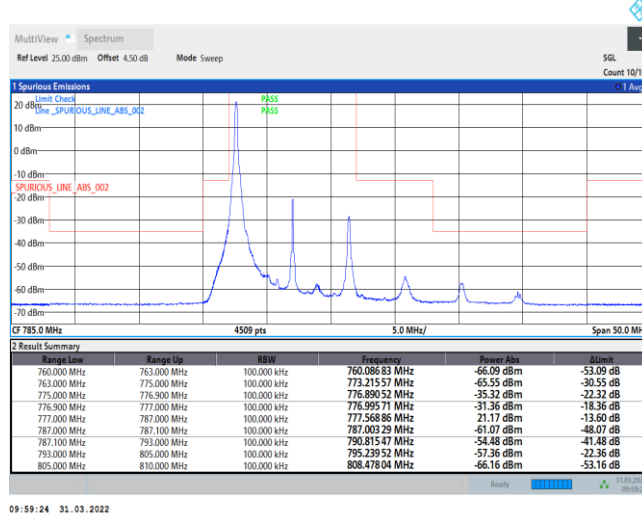
09:57:10 31. 03. 2022



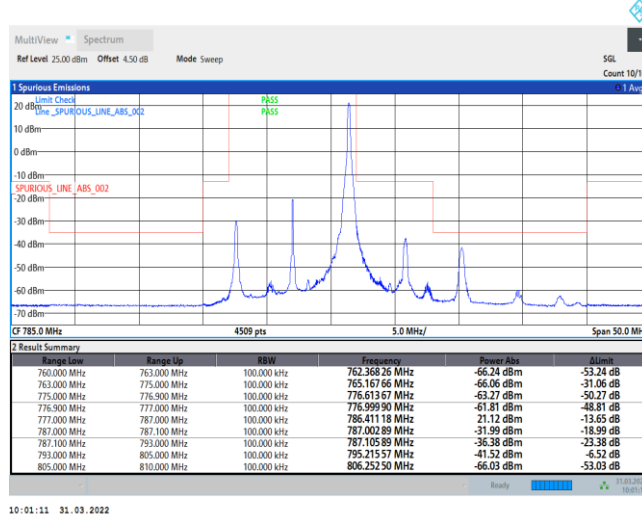
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Band13-10MHz-QPSK-23230-1RB#0



Band13-10MHz-QPSK-23230-1RB#49

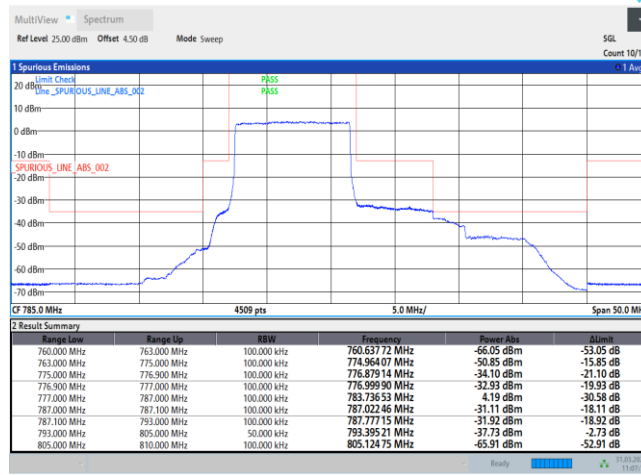


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Band13-10MHz-QPSK-23230-50RB#0



11:07:11 31.03.2022



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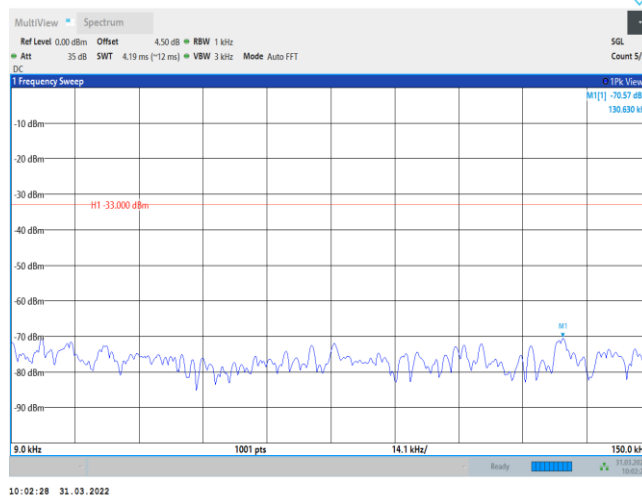
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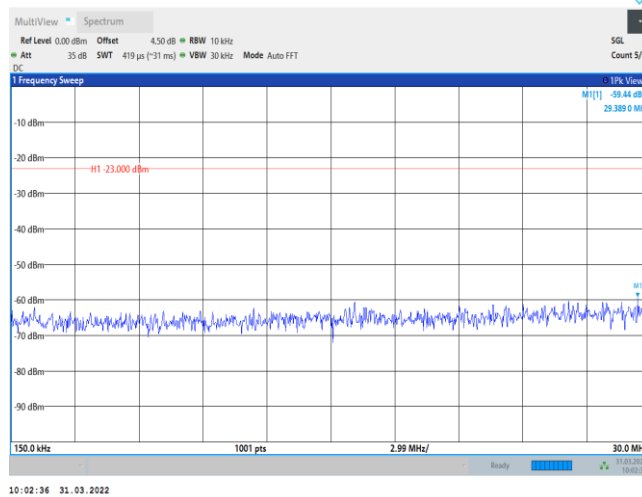
## Conducted Spurious Emission

### Test Graphs

Band13-10MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz

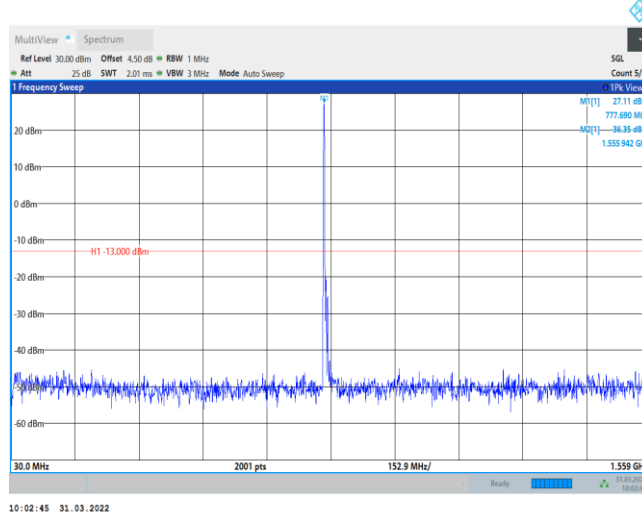


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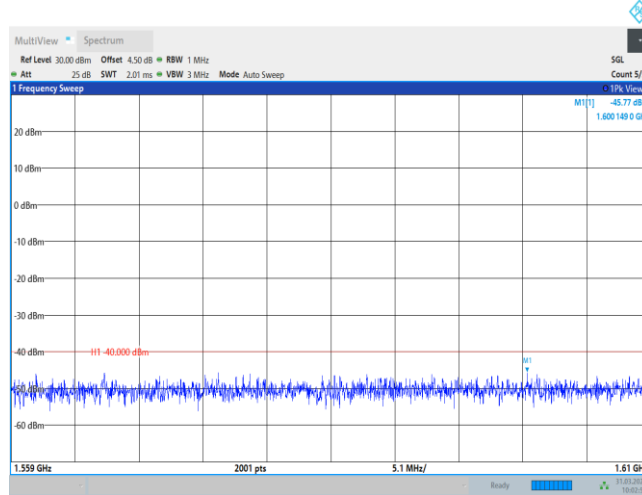
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1559MHz



10:02:45 31.03.2022

Band13-10MHz-QPSK-23230-1RB#0-Range4:1559~1610MHz



10:02:53 31.03.2022

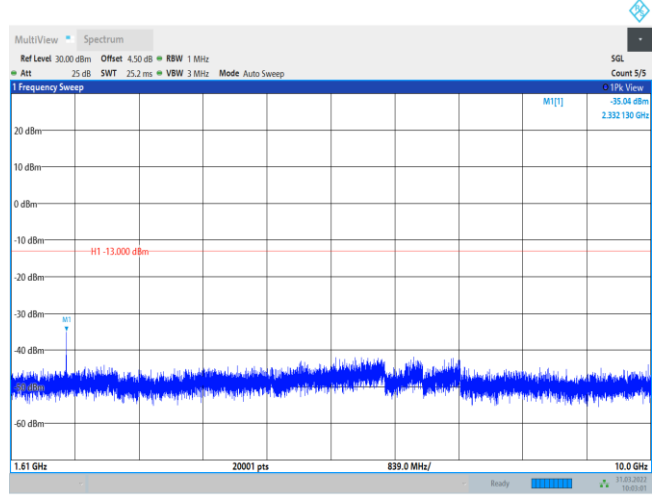


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Band13-10MHz-QPSK-23230-1RB#0-Range5:1610~10000MHz



10:03:01 31.03.2022



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## Field Strength of Spurious Radiation

Test Band = \_Band13\_10M TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	544.1300	53.42	-116.99	-63.57	-13.00	50.57	214	335	Horizontal
2	1555.1800	55.87	-118.15	-62.28	-13.00	49.28	236	5	Horizontal
3	2332.7700	64.70	-115.34	-50.64	-13.00	37.64	154	221	Horizontal
4	3110.2857	60.75	-112.43	-51.68	-13.00	38.68	186	132	Horizontal
5	3887.9500	51.88	-110.94	-59.06	-13.00	46.06	194	145	Horizontal
6	4665.5400	49.69	-109.15	-59.46	-13.00	46.46	170	310	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	544.1300	53.42	-116.99	-63.57	-13.00	50.57	233	359	Vertical
2	1555.1800	54.35	-118.15	-63.80	-13.00	50.80	250	340	Vertical
3	2332.7700	58.17	-115.34	-57.17	-13.00	44.17	169	252	Vertical
4	3110.3600	63.19	-112.43	-49.24	-13.00	36.24	185	24	Vertical
5	3887.9500	51.88	-110.94	-59.06	-13.00	46.06	145	360	Vertical
6	4665.5400	49.14	-109.15	-60.01	-13.00	47.01	135	112	Vertical



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**Test Band = \_Band13\_5M TM1**
**Test Channel = Low**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.6800	55.95	-118.15	-62.20	-13.00	49.20	102	10	Horizontal
2	2332	68.59	-115.34	-46.75	-13.00	33.75	235	221	Horizontal
3	3109.3600	59.97	-112.43	-52.46	-13.00	39.46	145	132	Horizontal
4	3886.7000	51.06	-110.95	-59.89	-13.00	46.89	196	120	Horizontal
5	4664.0400	49.57	-109.15	-59.58	-13.00	46.58	172	17	Horizontal
6	5441.3800	50.90	-107.46	-56.56	-13.00	43.56	166	31	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.6800	53.85	-118.15	-64.30	-13.00	51.30	233	328	Vertical
2	2332	59.99	-115.34	-55.35	-13.00	42.35	155	277	Vertical
3	3109.3600	62.82	-112.43	-49.61	-13.00	36.61	146	348	Vertical
4	3886.7000	52.03	-110.95	-58.92	-13.00	45.92	198	328	Vertical
5	4664.0400	48.36	-109.15	-60.79	-13.00	47.79	178	151	Vertical
6	5441.3800	49.11	-107.46	-58.35	-13.00	45.35	142	358	Vertical



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Test Band = \_Band13\_5M TM1

Test Channel = Mid

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.6800	58.14	-118.15	-60.01	-40.00	20.01	201	24	Horizontal
2	2339.5200	56.77	-115.33	-58.56	-13.00	45.56	230	225	Horizontal
3	3119.3600	61.69	-112.37	-50.68	-13.00	37.68	254	104	Horizontal
4	3899.2000	49.38	-110.93	-61.55	-13.00	48.55	159	3	Horizontal
5	4679.0400	49.74	-109.11	-59.37	-13.00	46.37	175	63	Horizontal
6	5458.8800	49.67	-107.47	-57.80	-13.00	44.80	259	38	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.6800	53.37	-118.15	-64.78	-40.00	24.78	224	157	Vertical
2	2339.5200	54.71	-115.33	-60.62	-13.00	47.62	126	19	Vertical
3	3119.3600	64.18	-112.37	-48.19	-13.00	35.19	232	1	Vertical
4	3899.2000	51.71	-110.93	-59.22	-13.00	46.22	251	48	Vertical
5	4679.0400	49.57	-109.11	-59.54	-13.00	46.54	181	108	Vertical
6	5458.8800	49.21	-107.47	-58.26	-13.00	45.26	197	170	Vertical



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**Test Band = \_Band13\_5M TM1**
**Test Channel = High**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.5714	57.40	-118.16	-60.76	-40.00	20.76	215	23	Horizontal
2	2347.0200	54.24	-115.32	-61.08	-13.00	48.08	234	48	Horizontal
3	3129.3600	59.36	-112.31	-52.95	-13.00	39.95	162	136	Horizontal
4	3911.7000	50.55	-110.89	-60.34	-13.00	47.34	174	251	Horizontal
5	4694.0400	49.11	-109.06	-59.95	-13.00	46.95	169	111	Horizontal
6	5476.3800	48.99	-107.48	-58.49	-13.00	45.49	221	201	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.6800	54.47	-118.16	-63.69	-40.00	23.69	148	223	Vertical
2	2347.0200	53.25	-115.32	-62.07	-13.00	49.07	157	313	Vertical
3	3129.3600	60.98	-112.31	-51.33	-13.00	38.33	164	6	Vertical
4	3911.7000	51.67	-110.89	-59.22	-13.00	46.22	186	1	Vertical
5	4694.0400	49.02	-109.06	-60.04	-13.00	47.04	241	59	Vertical
6	5476.3800	48.73	-107.48	-58.75	-13.00	45.75	175	162	Vertical



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## Frequency Stability

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	-3.40	-0.004348	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	-4.30	-0.005499	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-5.60	-0.007161	PASS

Temperature									
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	-4.50	-0.005754	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-6.50	-0.008312	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-3.00	-0.003836	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-3.40	-0.004348	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-1.80	-0.002302	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-8.00	-0.010230	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	-0.10	-0.000128	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-1.50	-0.001918	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	-4.00	-0.005115	PASS

The End



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