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Appendix B.9

LTE Band 13



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Effective (Isotropic) Radiated Power Output Data

Test Result

Ant41:

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	24.22	15.57	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	24.53	15.88	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	24.16	15.51	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	23.35	14.70	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	23.63	14.98	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	24.06	15.41	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	24.19	15.54	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	23.28	14.63	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	23.54	14.89	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	24.03	15.38	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	24.16	15.51	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	23.28	14.63	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	23.40	14.75	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	23.47	14.82	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	23.56	14.91	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	22.34	13.69	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	23.51	14.86	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	23.40	14.75	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	23.42	14.77	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	22.16	13.51	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	23.29	14.64	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	23.53	14.88	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	23.43	14.78	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	22.25	13.60	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	22.36	13.71	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	22.35	13.70	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	22.27	13.62	34.77	PASS



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Band13	5MHz	64QAM	23205	25RB#0	21.24	12.59	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	22.38	13.73	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	22.47	13.82	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	22.32	13.67	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	21.40	12.75	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	22.32	13.67	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	22.32	13.67	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	22.43	13.78	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	21.25	12.60	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#0	19.23	10.58	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#12	19.41	10.76	34.77	PASS
Band13	5MHz	256QAM	23205	1RB#24	19.35	10.70	34.77	PASS
Band13	5MHz	256QAM	23205	25RB#0	19.31	10.66	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#0	19.32	10.67	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#12	19.37	10.72	34.77	PASS
Band13	5MHz	256QAM	23230	1RB#24	19.39	10.74	34.77	PASS
Band13	5MHz	256QAM	23230	25RB#0	19.31	10.66	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#0	19.40	10.75	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#12	19.40	10.75	34.77	PASS
Band13	5MHz	256QAM	23255	1RB#24	19.41	10.76	34.77	PASS
Band13	5MHz	256QAM	23255	25RB#0	19.29	10.64	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	24.06	15.41	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	24.10	15.45	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	24.15	15.50	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	23.30	14.65	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	23.30	14.65	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	23.35	14.70	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	23.41	14.76	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	22.38	13.73	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	22.52	13.87	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	22.55	13.90	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	22.50	13.85	34.77	PASS



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Band13	10MHz	64QAM	23230	50RB#0	21.33	12.68	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#0	19.27	10.62	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#24	19.44	10.79	34.77	PASS
Band13	10MHz	256QAM	23230	1RB#49	19.52	10.87	34.77	PASS
Band13	10MHz	256QAM	23230	50RB#0	19.27	10.62	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	5.00	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.68	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.28	13	PASS
Band13	10MHz	256QAM	23230	50RB#0	6.60	13	PASS



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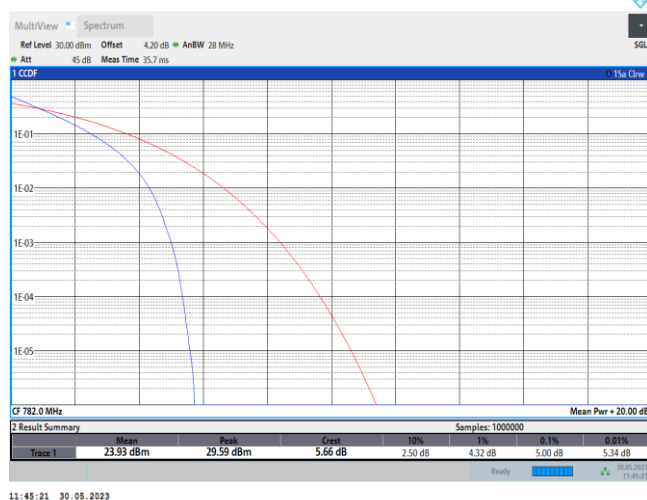
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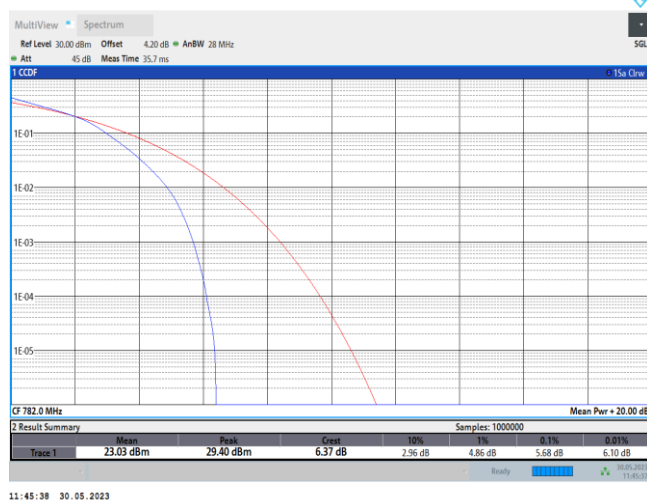
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Test Graphs

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



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



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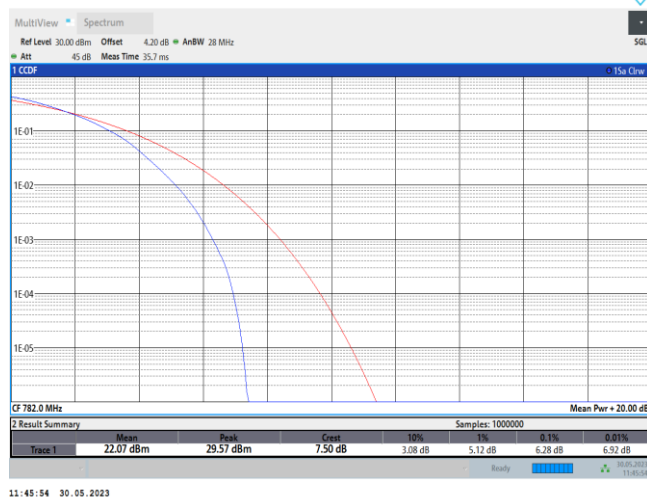
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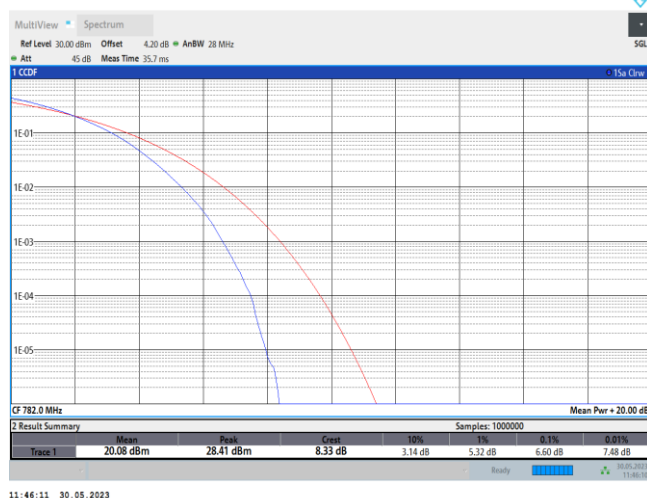
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Band13-10MHz-256QAM-23230-50RB#0



11:46:11 30.05.2023



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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
Band13	10MHz	256QAM	23230	50RB#0	PASS	PASS



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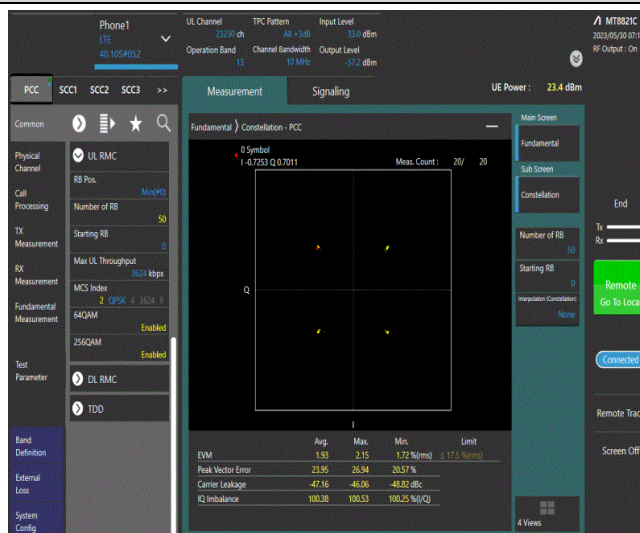
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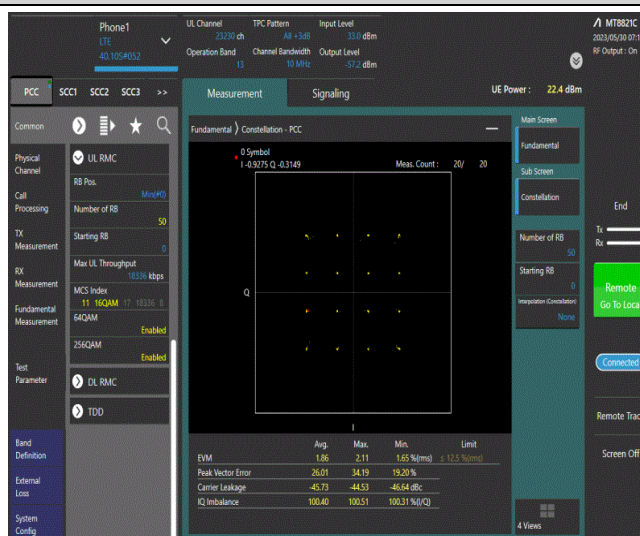
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Test Graphs

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



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



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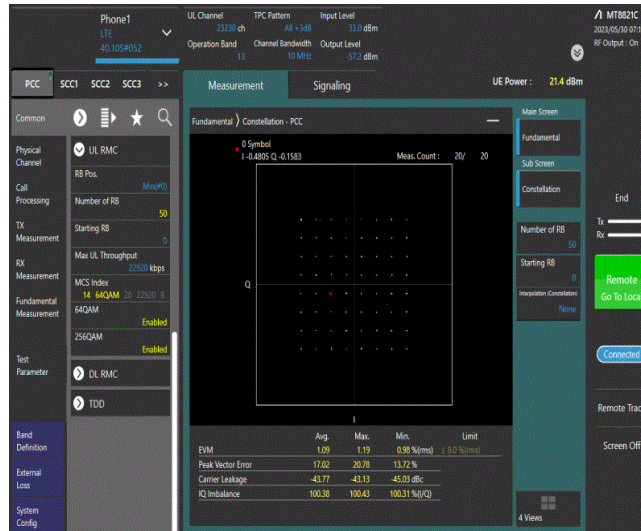
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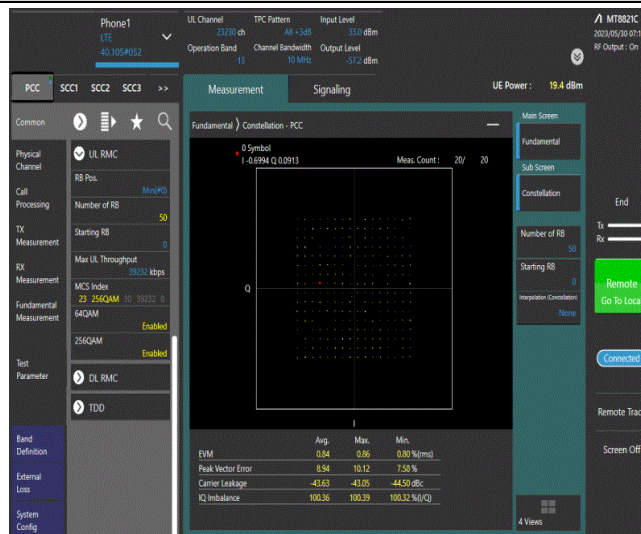
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Band13-10MHz-256QAM-23230-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.464	4.81	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.464	4.88	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.467	4.83	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.481	4.88	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.469	4.86	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.467	4.86	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.481	4.81	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.458	4.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.478	4.88	PASS
Band13	5MHz	256QAM	23205	25RB#0	4.466	4.87	PASS
Band13	5MHz	256QAM	23230	25RB#0	4.464	4.83	PASS
Band13	5MHz	256QAM	23255	25RB#0	4.473	4.81	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.944	9.56	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.909	9.52	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.890	9.52	PASS
Band13	10MHz	256QAM	23230	50RB#0	8.920	9.56	PASS



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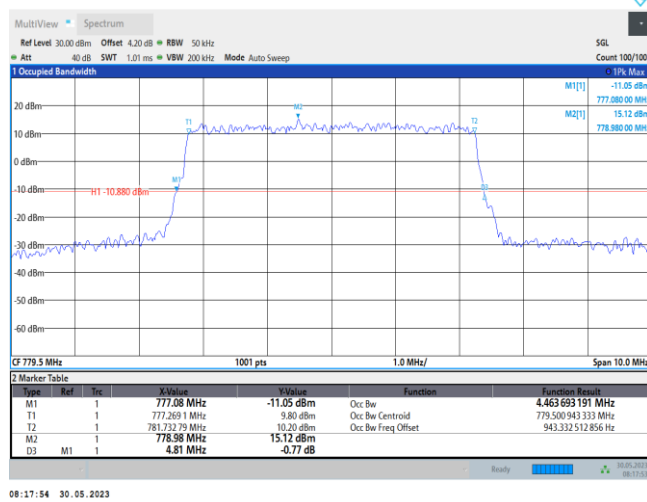
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Test Graphs

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



Band13-5MHz-QPSK-23230-25RB#0



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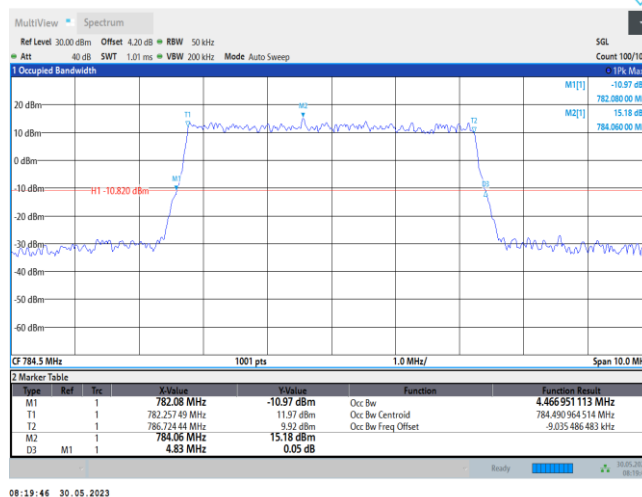
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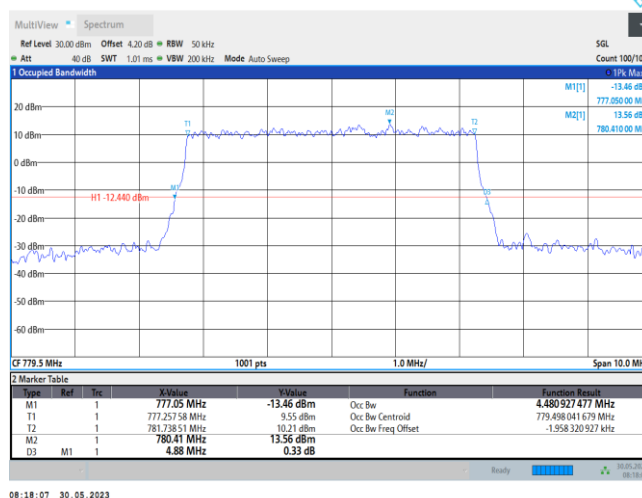
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Band13-5MHz-QPSK-23255-25RB#0



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

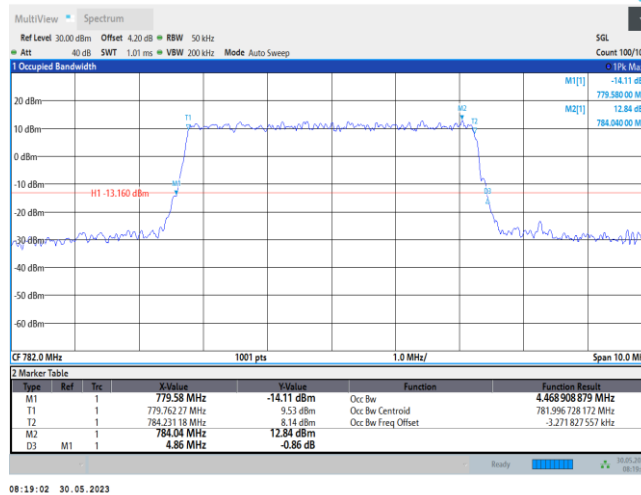


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Band13-5MHz-16QAM-23230-25RB#0



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



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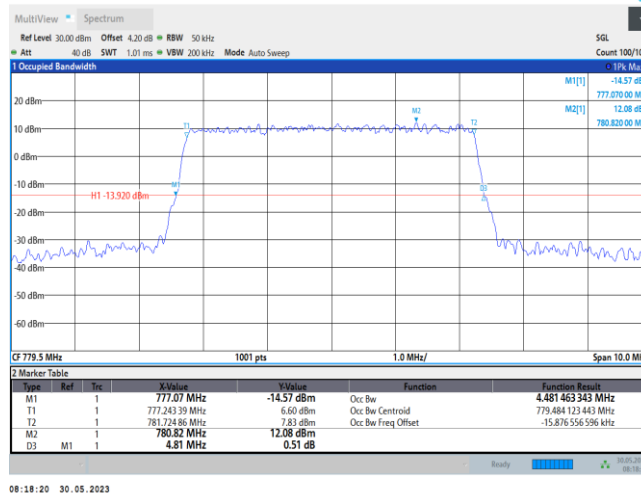
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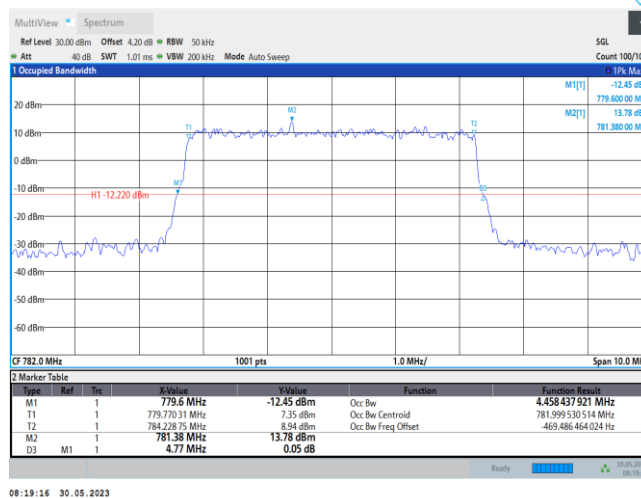
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Band13-5MHz-64QAM-23205-25RB#0



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



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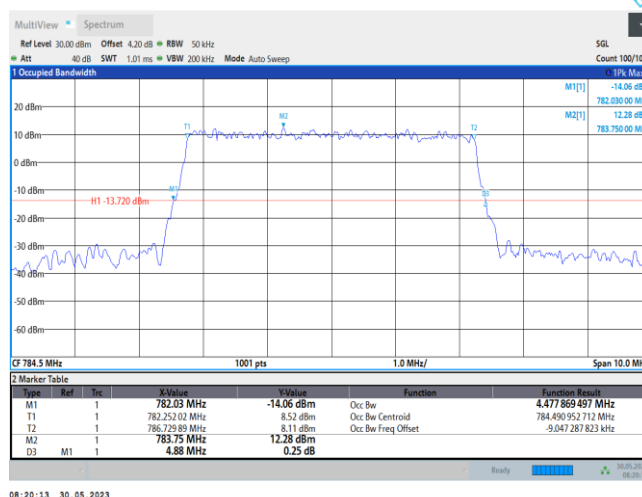
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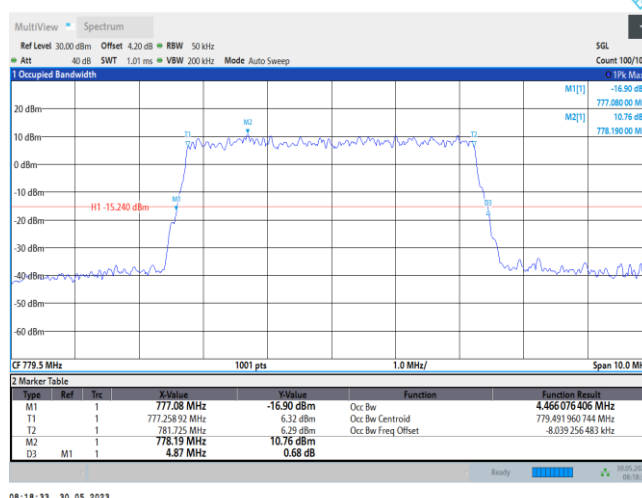
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Band13-5MHz-64QAM-23255-25RB#0



Band13-5MHz-256QAM-23205-25RB#0



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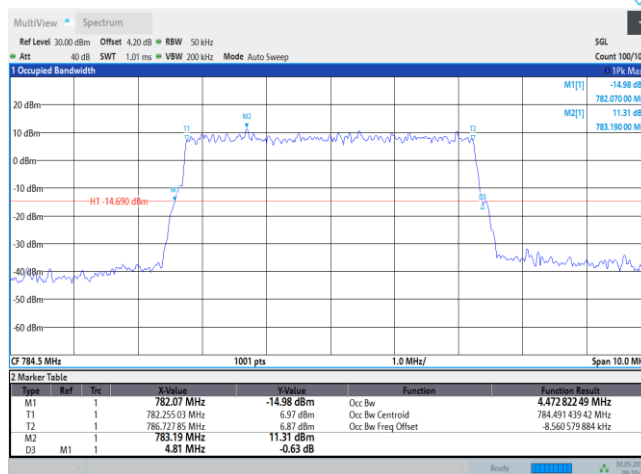
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Band13-5MHz-256QAM-23255-25RB#0



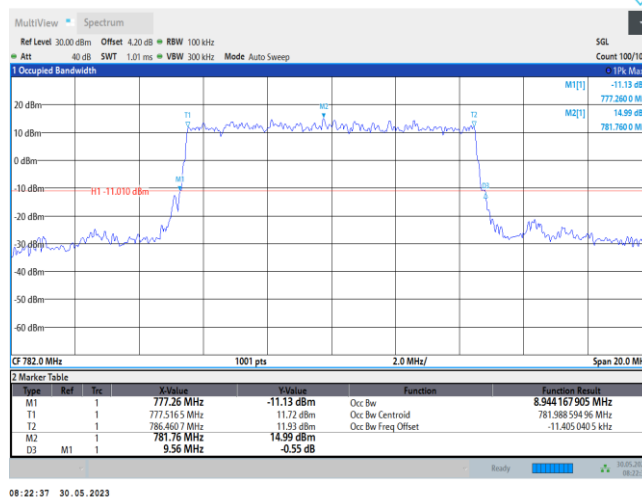
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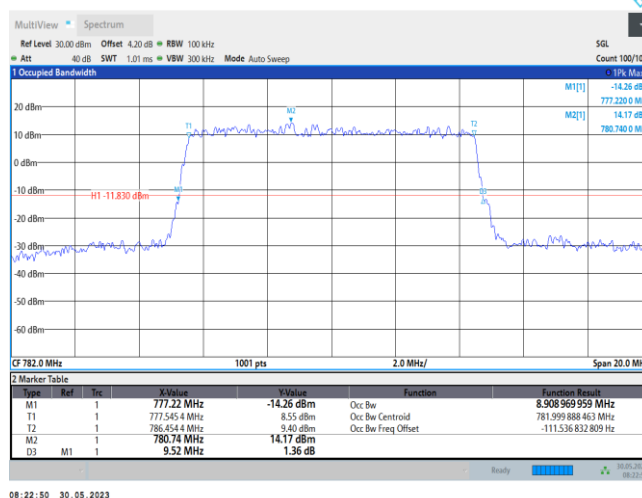
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Band13-10MHz-QPSK-23230-50RB#0



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

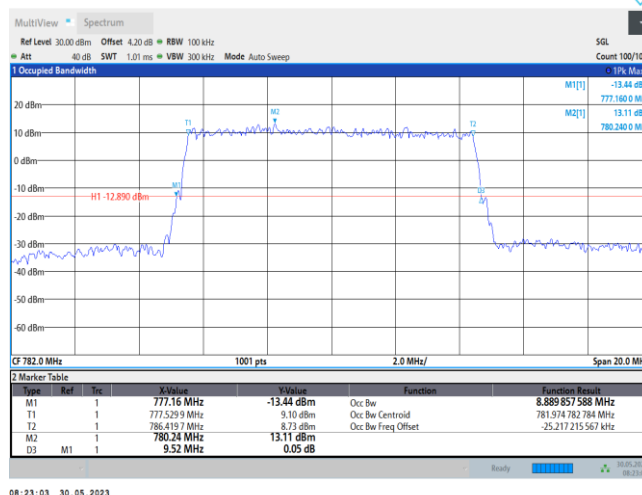


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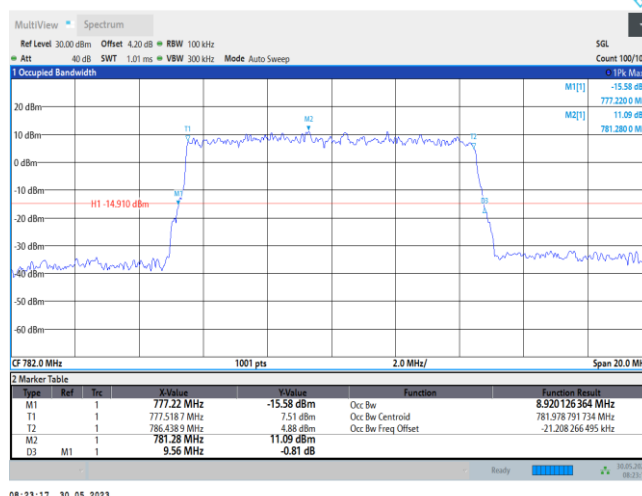
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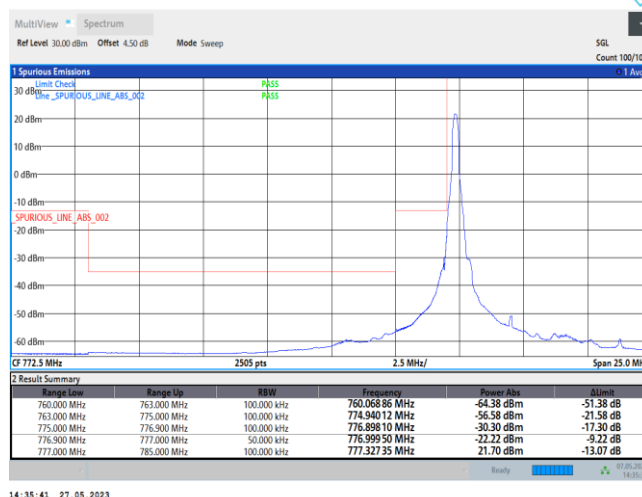
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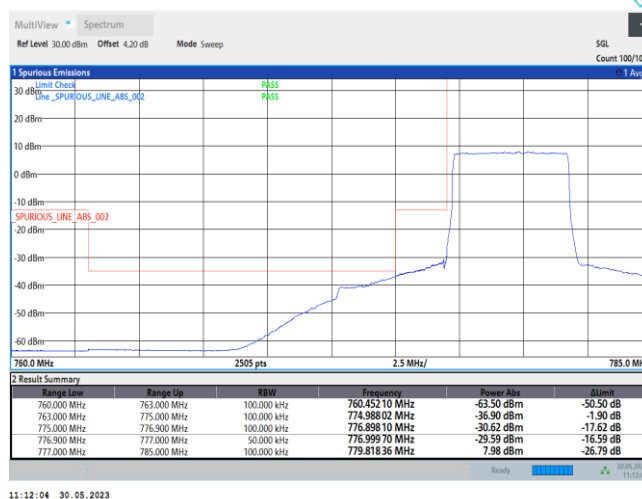
Band Edge

Test Graphs

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



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



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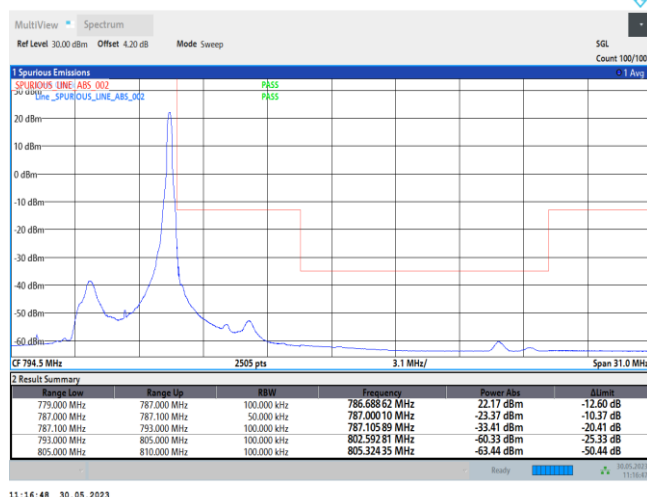
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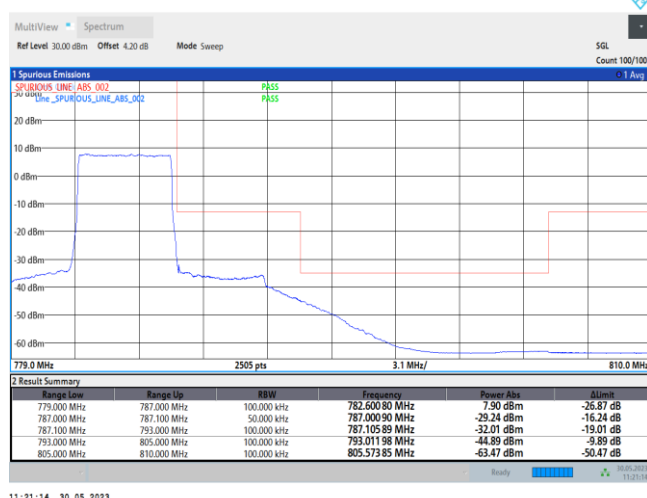
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Band13-5MHz-QPSK-23255-1RB#24



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



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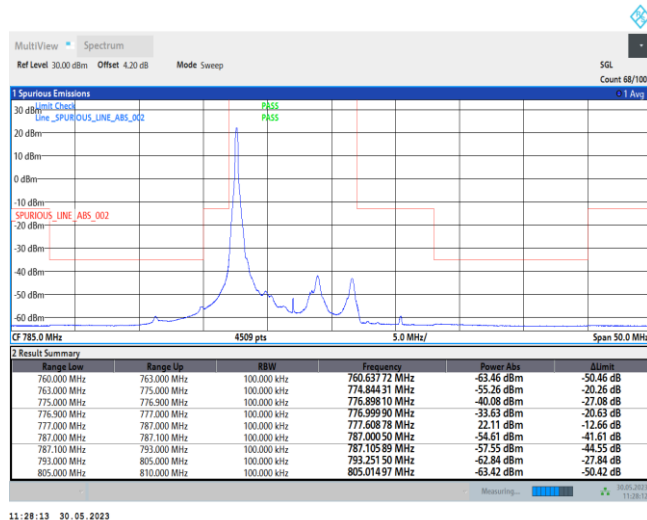
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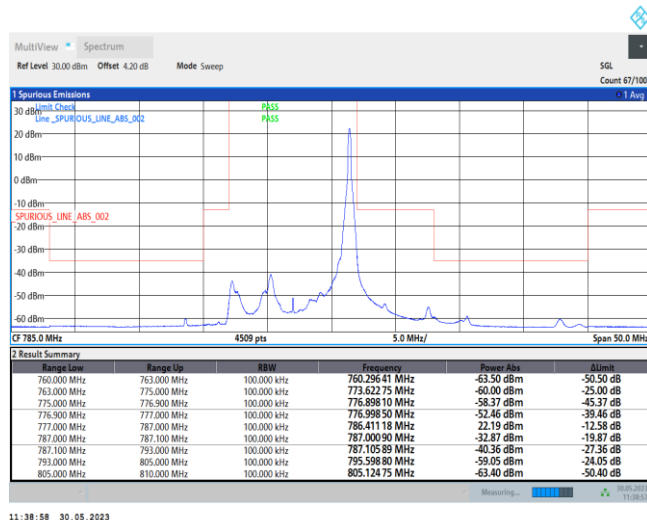
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Band13-10MHz-QPSK-23230-1RB#0



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



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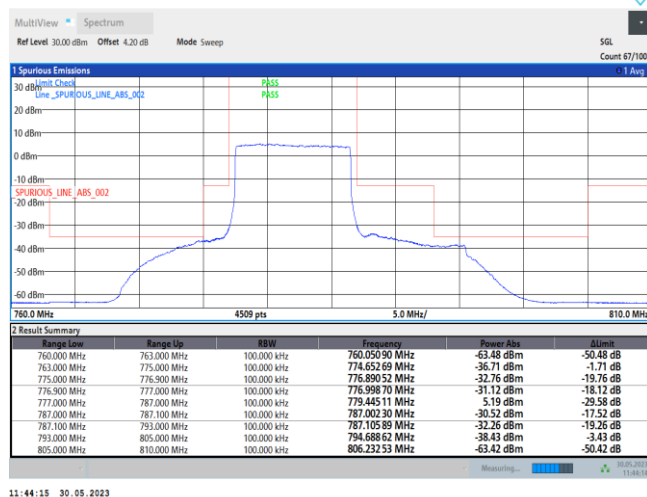
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Band13-10MHz-QPSK-23230-50RB#0



11:44:15 30.05.2023



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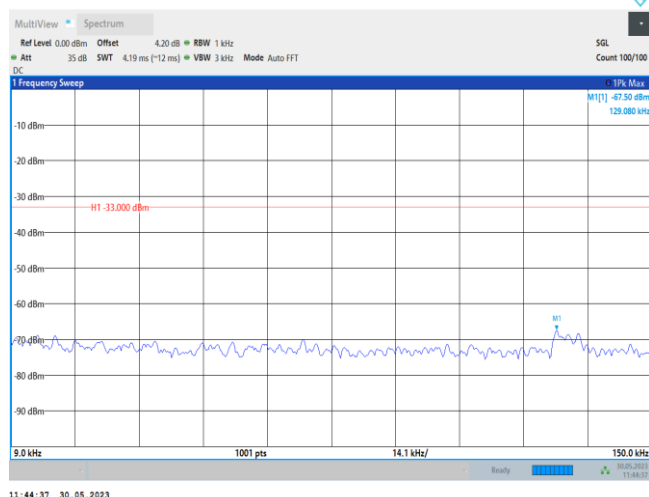
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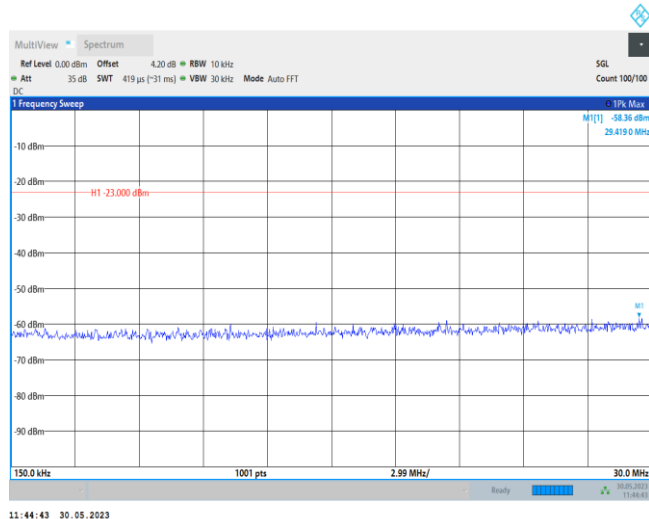
Conducted Spurious Emission

Test Graphs

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



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

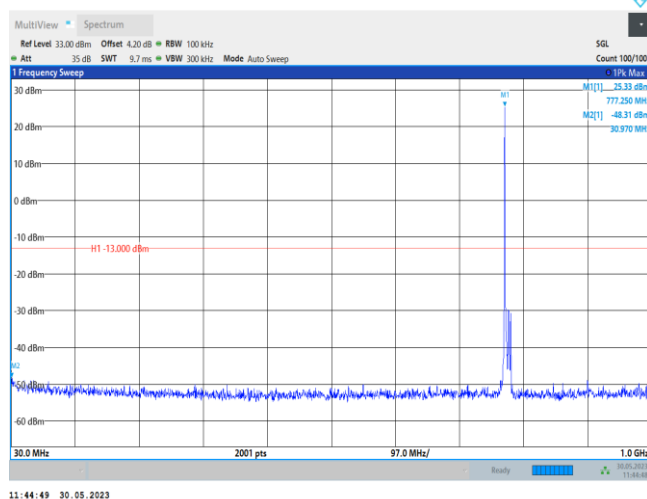


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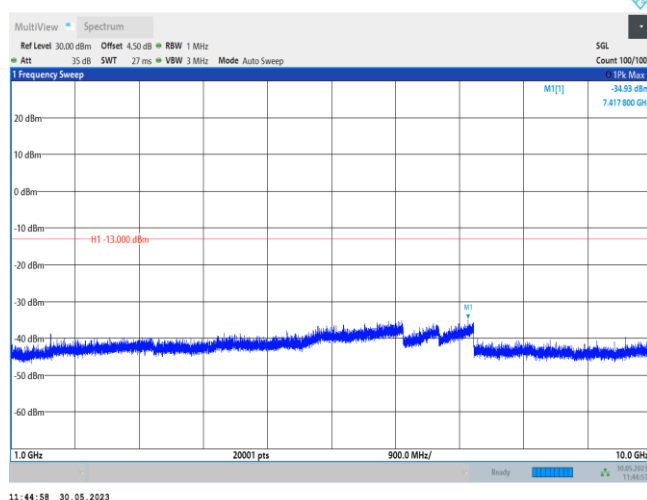
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1000MHz



Band13-10MHz-QPSK-23230-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 13 _10MHz _ TM1
Test Channel = Mid ANT11

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1555.1800	44.78	-48.30	25.41	-73.37	-13.00	60.37	187	92	Horizontal
2	2332.7700	43.33	-47.48	27.41	-72.01	-13.00	59.01	145	133	Horizontal
3	3110.3600	43.76	-46.70	29.53	-68.67	-13.00	55.67	112	185	Horizontal
4	3887.9500	41.73	-46.22	30.54	-69.21	-13.00	56.21	223	68	Horizontal
5	4665.5400	41.12	-45.80	31.91	-68.03	-13.00	55.03	165	13	Horizontal
6	5441.3000	41.18	-45.04	32.85	-66.28	-13.00	53.28	281	347	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1555.1800	44.92	-48.30	25.41	-73.23	-13.00	60.23	228	136	Vertical
2	2332.7700	43.81	-47.48	27.41	-71.53	-13.00	58.53	177	294	Vertical
3	3110.3600	43.26	-46.70	29.53	-69.17	-13.00	56.17	145	360	Vertical
4	3887.9500	42.07	-46.22	30.54	-68.87	-13.00	55.87	221	210	Vertical
5	4665.5400	41.67	-45.80	31.91	-67.48	-13.00	54.48	231	17	Vertical
6	5441.3000	41.12	-45.04	32.85	-66.34	-13.00	53.34	155	359	Vertical



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Test Band = LTE Band 13 _5MHz _ TM1
Test Channel = LOW ANT11

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.6800	44.99	-48.30	25.41	-73.16	-13.00	60.16	228	29	Horizontal
2	2332.0200	43.70	-47.48	27.41	-71.64	-13.00	58.64	149	81	Horizontal
3	3109.3600	43.23	-46.71	29.53	-69.20	-13.00	56.20	231	186	Horizontal
4	3886.7000	41.99	-46.22	30.53	-68.96	-13.00	55.96	261	306	Horizontal
5	4664.0400	41.16	-45.80	31.91	-67.99	-13.00	54.99	147	0	Horizontal
6	5441.3800	41.54	-45.04	32.85	-65.92	-13.00	52.92	154	123	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.6800	45.44	-48.30	25.41	-72.71	-13.00	59.71	218	265	Vertical
2	2332.0200	43.91	-47.48	27.41	-71.43	-13.00	58.43	165	335	Vertical
3	3109.3600	43.13	-46.71	29.53	-69.30	-13.00	56.30	147	210	Vertical
4	3886.7000	41.85	-46.22	30.53	-69.10	-13.00	56.10	221	268	Vertical
5	4664.0400	40.88	-45.80	31.91	-68.27	-13.00	55.27	135	4	Vertical
6	5441.3800	41.15	-45.04	32.85	-66.31	-13.00	53.31	182	105	Vertical



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Test Band = LTE Band 13 _5MHz _ TM1
Test Channel = MID ANT11

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.6800	44.34	-48.30	25.40	-73.81	-40.00	33.81	142	145	Horizontal
2	2339.5200	44.03	-47.48	27.41	-71.30	-13.00	58.30	196	3	Horizontal
3	3119.3600	43.43	-46.66	29.55	-68.94	-13.00	55.94	214	118	Horizontal
4	3899.2000	41.74	-46.23	30.56	-69.19	-13.00	56.19	231	68	Horizontal
5	4679.0400	40.78	-45.80	31.95	-68.33	-13.00	55.33	114	40	Horizontal
6	5458.8800	41.45	-45.07	32.87	-66.02	-13.00	53.02	158	162	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.6800	44.96	-48.30	25.40	-73.19	-40.00	33.19	155	106	Vertical
2	2339.5200	44.21	-47.48	27.41	-71.12	-13.00	58.12	143	360	Vertical
3	3119.3600	43.23	-46.66	29.55	-69.14	-13.00	56.14	214	281	Vertical
4	3899.2000	41.61	-46.23	30.56	-69.32	-13.00	56.32	187	11	Vertical
5	4679.0400	40.96	-45.80	31.95	-68.15	-13.00	55.15	221	31	Vertical
6	5458.8800	41.48	-45.07	32.87	-65.99	-13.00	52.99	234	56	Vertical



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Test Band = LTE Band 13 _5MHz _ TM1
Test Channel = HIGH ANT11

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.6800	44.03	-48.29	25.40	-74.13	-40.00	34.13	154	158	Horizontal
2	2347.0200	43.56	-47.48	27.41	-71.76	-13.00	58.76	162	123	Horizontal
3	3129.3600	43.49	-46.61	29.56	-68.82	-13.00	55.82	229	242	Horizontal
4	3911.7000	41.72	-46.23	30.59	-69.17	-13.00	56.17	165	158	Horizontal
5	4694.0400	40.99	-45.80	32.00	-68.07	-13.00	55.07	147	250	Horizontal
6	5476.3800	40.99	-45.10	32.88	-66.49	-13.00	53.49	214	130	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.6800	44.14	-48.29	25.40	-74.02	-40.00	34.02	224	9	Vertical
2	2347.0200	43.63	-47.48	27.41	-71.69	-13.00	58.69	187	240	Vertical
3	3129.3600	43.42	-46.61	29.56	-68.89	-13.00	55.89	165	334	Vertical
4	3911.7000	42.10	-46.23	30.59	-68.79	-13.00	55.79	143	304	Vertical
5	4694.0400	41.29	-45.80	32.00	-67.77	-13.00	54.77	221	170	Vertical
6	5476.3800	41.32	-45.10	32.88	-66.16	-13.00	53.16	129	342	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
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	1.40	0.001790	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	2.40	0.003069	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	-0.30	-0.000384	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	2.40	0.003069	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	1.60	0.002046	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-0.10	-0.000128	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	0.50	0.000639	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	0.10	0.000128	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	-0.20	-0.000256	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	0.20	0.000256	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	2.30	0.002941	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	1.70	0.002174	PASS

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