

Report No.: SEWA2309000114RG01

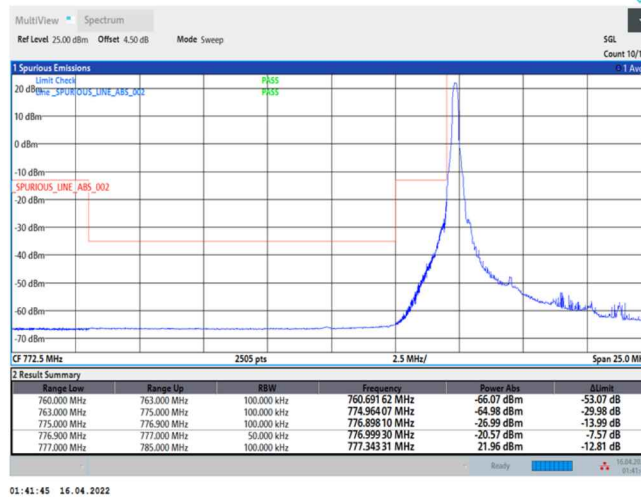
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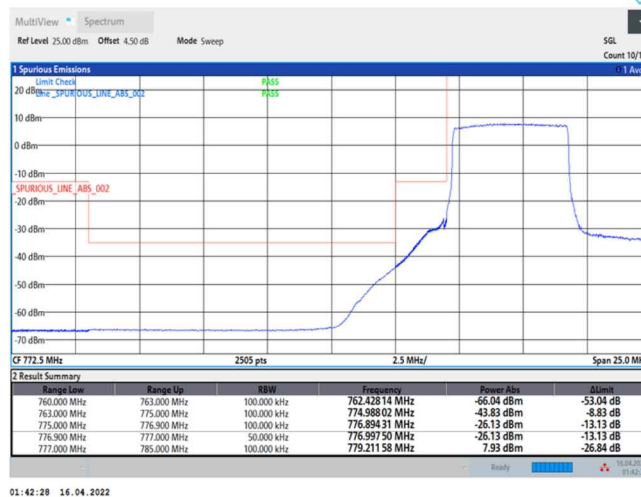
Band Edge

Test Graphs

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



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



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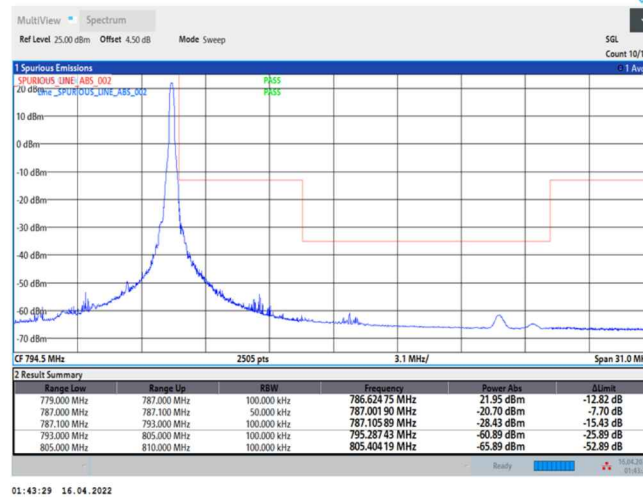
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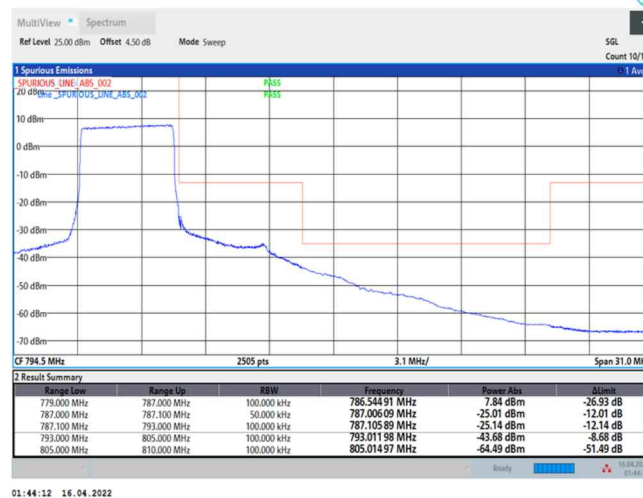
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Band13-5MHz-QPSK-23255-1RB#24



01:43:29 16.04.2022

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



01:44:12 16.04.2022



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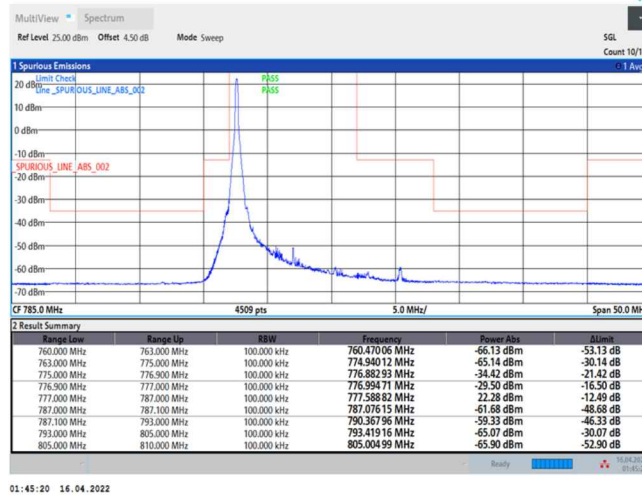
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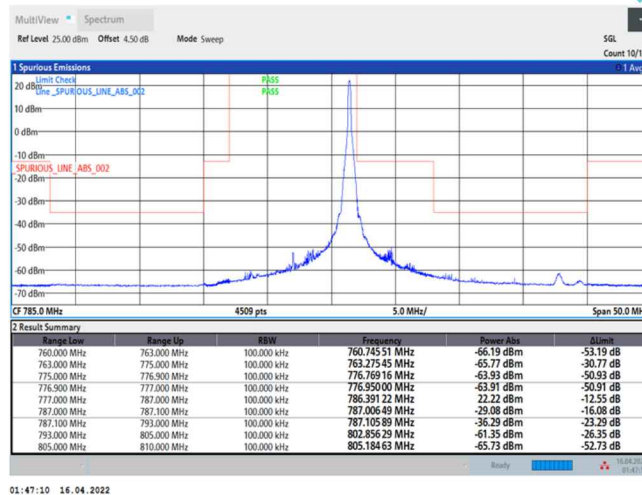
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Band13-10MHz-QPSK-23230-1RB#0



01:45:20 16.04.2022

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



01:47:10 16.04.2022



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Wireless Laboratory

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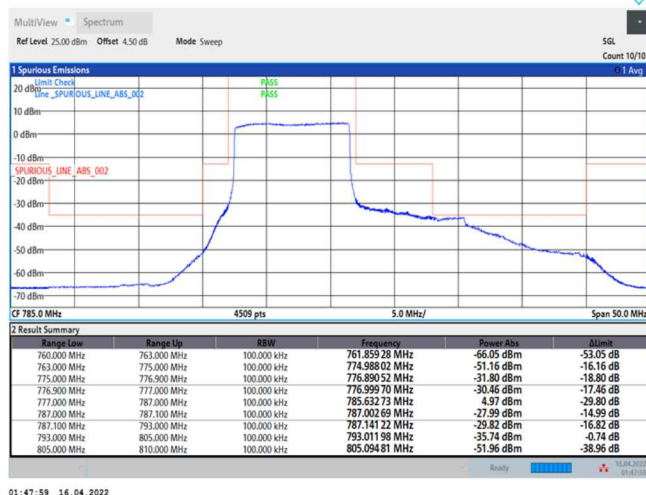
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Band13-10MHz-QPSK-23230-50RB#0



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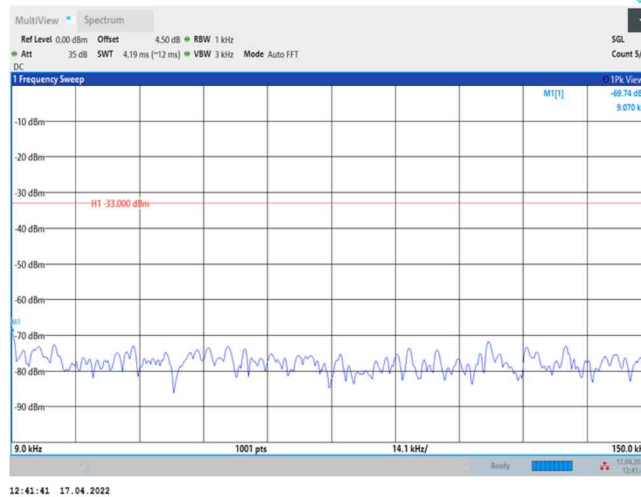
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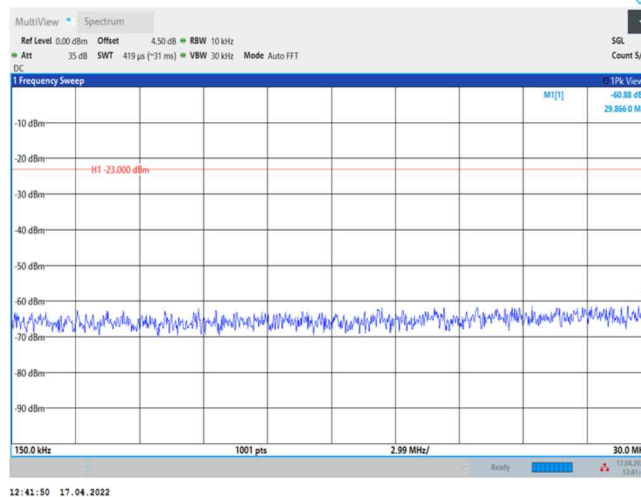
Conducted Spurious Emission

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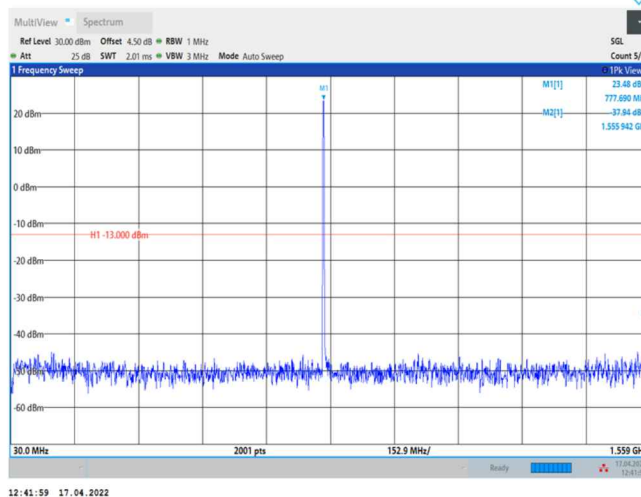
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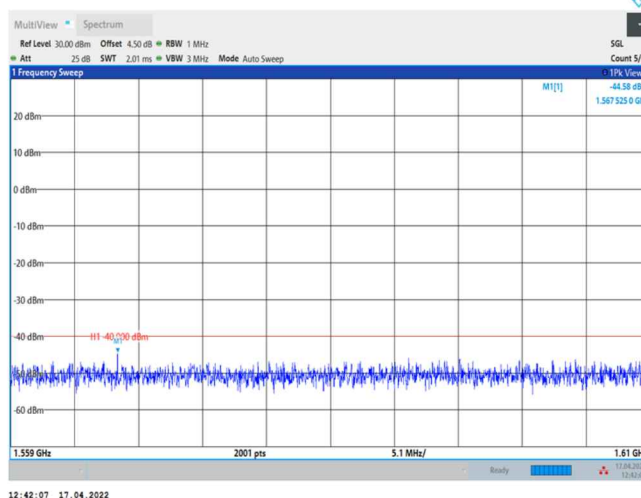
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1559MHz



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



12:42:07 17.04.2022



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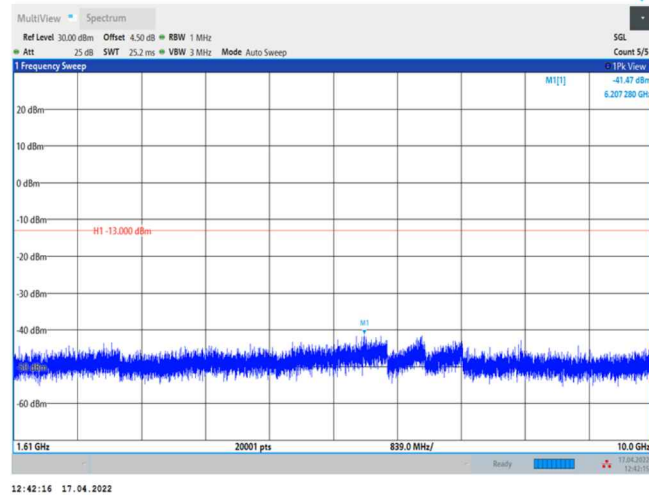
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Band13-10MHz-QPSK-23230-1RB#0-Range5:1610~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 13 BW 10M_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1555.18	62.13	-118.21	-56.08	-13.00	43.08	263	208	Horizontal
2	2332.77	60.72	-115.31	-54.59	-13.00	41.59	241	145	Horizontal
3	3110.36	51.13	-112.21	-61.08	-13.00	48.08	176	176	Horizontal
4	3887.95	50.83	-110.47	-59.64	-13.00	46.64	254	62	Horizontal
5	4665.54	50.11	-108.04	-57.93	-13.00	44.93	186	62	Horizontal
6	5443.13	52.65	-106.49	-53.84	-13.00	40.84	264	239	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1555.18	54.53	-118.21	-63.68	-13.00	50.68	163	31	Vertical
2	2432	65.52	-114.81	-49.29	-13.00	36.29	251	113	Vertical
3	3110.36	52.18	-112.21	-60.03	-13.00	47.03	175	300	Vertical
4	3887.95	52.47	-110.47	-58.00	-13.00	45.00	265	289	Vertical
5	4665.54	51.05	-108.04	-56.99	-13.00	43.99	185	8	Vertical
6	5443.13	52.54	-106.49	-53.95	-13.00	40.95	147	194	Vertical



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Test Band = LTE Band 13 BW 5M_ TM1
Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.68	58.65	-118.21	-59.56	-13.00	46.56	263	71	Horizontal
2	2332	62.39	-115.31	-52.92	-13.00	39.92	251	136	Horizontal
3	3109.36	51.72	-112.22	-60.50	-13.00	47.50	174	166	Horizontal
4	3886.7	51.18	-110.47	-59.29	-13.00	46.29	163	71	Horizontal
5	4664.04	50.05	-108.04	-57.99	-13.00	44.99	254	156	Horizontal
6	5441.38	51.48	-106.49	-55.01	-13.00	42.01	147	187	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.68	53.35	-118.21	-64.86	-13.00	51.86	263	18	Vertical
2	2332.02	52.49	-115.31	-62.82	-13.00	49.82	251	174	Vertical
3	3109.36	51.95	-112.22	-60.27	-13.00	47.27	176	3	Vertical
4	3886.7	49.63	-110.47	-60.84	-13.00	47.84	241	298	Vertical
5	4664.04	50.01	-108.04	-58.03	-13.00	45.03	177	80	Vertical
6	5441.38	51.72	-106.49	-54.77	-13.00	41.77	185	236	Vertical



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Test Band = LTE Band 13 BW 5M_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	60.75	-118.21	-57.46	-40.00	17.46	263	61	Horizontal
2	2339.52	63.82	-115.29	-51.47	-13.00	38.47	251	135	Horizontal
3	3119.36	51.80	-112.19	-60.39	-13.00	47.39	176	217	Horizontal
4	3899.2	50.54	-110.43	-59.89	-13.00	46.89	254	197	Horizontal
5	4679.04	50.57	-107.99	-57.42	-13.00	44.42	177	360	Horizontal
6	5458.88	51.55	-106.48	-54.93	-13.00	41.93	185	357	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	55.42	-118.21	-62.79	-40.00	22.79	263	174	Vertical
2	2339.52	54.07	-115.29	-61.22	-13.00	48.22	251	268	Vertical
3	3119.36	52.58	-112.19	-59.61	-13.00	46.61	176	20	Vertical
4	3899.2	50.45	-110.43	-59.98	-13.00	46.98	241	124	Vertical
5	4679.04	50.12	-107.99	-57.87	-13.00	44.87	178	124	Vertical
6	5458.88	51.49	-106.48	-54.99	-13.00	41.99	264	92	Vertical



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Test Band = LTE Band 13 BW 5M_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564	62.86	-118.21	-55.35	-40.00	15.35	263	206	Horizontal
2	2347.02	65.32	-115.27	-49.95	-13.00	36.95	251	144	Horizontal
3	3129.36	51.32	-112.17	-60.85	-13.00	47.85	176	71	Horizontal
4	3911.7	51.02	-110.40	-59.38	-13.00	46.38	241	30	Horizontal
5	4694.04	50.26	-107.94	-57.68	-13.00	44.68	185	352	Horizontal
6	5476.38	51.39	-106.46	-55.07	-13.00	42.07	264	289	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564	57.42	-118.21	-60.79	-40.00	20.79	263	239	Vertical
2	2347.02	55.79	-115.27	-59.48	-13.00	46.48	241	12	Vertical
3	3129.36	52.00	-112.17	-60.17	-13.00	47.17	176	7	Vertical
4	3911.7	50.69	-110.40	-59.71	-13.00	46.71	241	85	Vertical
5	4694.04	49.92	-107.94	-58.02	-13.00	45.02	178	65	Vertical
6	5476.38	52.04	-106.46	-54.42	-13.00	41.42	264	133	Vertical



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Test Band = UL CA Band 2A-13A_ TM1
Test Channel = Low Channel
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.68	40.77	-95.18	-54.41	-13.00	41.41	263	11	Horizontal
2	2332.02	40.56	-92.24	-51.68	-13.00	38.68	251	37	Horizontal
3	3109.36	52.50	-111.62	-59.12	-13.00	46.12	174	296	Horizontal
4	3702.18	51.33	-111.07	-59.74	-13.00	46.74	162	198	Horizontal
5	5553.27	49.47	-106.36	-56.89	-13.00	43.89	284	344	Horizontal
6	7404.36	48.02	-100.78	-52.76	-13.00	39.76	176	230	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.68	40.68	-95.18	-54.50	-13.00	41.50	263	350	Vertical
2	2332.02	40.37	-92.24	-51.87	-13.00	38.87	241	204	Vertical
3	3109.36	51.41	-111.62	-60.21	-13.00	47.21	176	4	Vertical
4	3702.18	49.47	-111.07	-61.60	-13.00	48.60	254	49	Vertical
5	5553.27	49.20	-106.36	-57.16	-13.00	44.16	177	49	Vertical
6	7404.36	48.72	-100.78	-52.06	-13.00	39.06	264	49	Vertical



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Test Band = UL CA Band 2A-13A_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	40.25	-95.17	-54.92	-13.00	41.92	263	69	Horizontal
2	2339.52	40.95	-92.21	-51.26	-13.00	38.26	241	89	Horizontal
3	3119.36	51.04	-111.58	-60.54	-13.00	47.54	176	309	Horizontal
4	3742.18	52.92	-110.86	-57.94	-13.00	44.94	284	3	Horizontal
5	5613.27	51.31	-106.14	-54.83	-13.00	41.83	188	98	Horizontal
6	7484.36	47.22	-100.43	-53.21	-13.00	40.21	264	32	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	41.25	-95.17	-53.92	-13.00	40.92	263	0	Vertical
2	2339.52	40.40	-92.21	-51.81	-13.00	38.81	241	1	Vertical
3	3119.36	51.67	-111.58	-59.91	-13.00	46.91	176	66	Vertical
4	3742.18	50.50	-110.86	-60.36	-13.00	47.36	281	162	Vertical
5	5613.27	51.58	-106.14	-54.56	-13.00	41.56	178	81	Vertical
6	7484.36	50.33	-100.43	-50.10	-13.00	37.10	264	178	Vertical



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Test Band = UL CA Band 2A-13A_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.68	41.86	-95.16	-53.30	-13.00	40.30	152	192	Horizontal
2	2347.02	40.97	-92.18	-51.21	-13.00	38.21	263	286	Horizontal
3	3129.36	50.65	-111.55	-60.90	-13.00	47.90	262	360	Horizontal
4	3782.18	53.58	-110.66	-57.08	-13.00	44.08	142	360	Horizontal
5	5673.27	48.46	-105.88	-57.42	-13.00	44.42	284	3	Horizontal
6	7564.36	49.02	-100.01	-50.99	-13.00	37.99	162	38	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.68	40.66	-95.16	-54.50	-13.00	41.50	263	10	Vertical
2	2347.02	40.78	-92.18	-51.40	-13.00	38.40	251	1	Vertical
3	3129.36	51.56	-111.55	-59.99	-13.00	46.99	144	28	Vertical
4	3782.18	52.46	-110.66	-58.20	-13.00	45.20	265	194	Vertical
5	5673.27	51.03	-105.88	-54.85	-13.00	41.85	284	278	Vertical
6	7564.36	52.42	-100.01	-47.59	-13.00	34.59	375	47	Vertical



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Test Band = UL CA Band 4A-13A_ TM1
Test Channel = Low Channel
Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.68	40.60	-95.18	-54.58	-13.00	41.58	263	224	Horizontal
2	2332.02	40.89	-92.24	-51.35	-13.00	38.35	251	276	Horizontal
3	3109.36	50.32	-111.62	-61.30	-13.00	48.30	174	82	Horizontal
4	3422.18	50.02	-111.71	-61.69	-13.00	48.69	185	49	Horizontal
5	5133.27	49.31	-106.90	-57.59	-13.00	44.59	265	113	Horizontal
6	6844.36	51.17	-101.87	-50.70	-13.00	37.70	284	212	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.68	40.36	-95.18	-54.82	-13.00	41.82	256	297	Vertical
2	2332.02	40.43	-92.24	-51.81	-13.00	38.81	263	78	Vertical
3	3109.36	51.91	-111.62	-59.71	-13.00	46.71	262	47	Vertical
4	3422.18	49.98	-111.71	-61.73	-13.00	48.73	251	64	Vertical
5	5133.27	50.48	-106.90	-56.42	-13.00	43.42	174	32	Vertical
6	6844.36	48.59	-101.87	-53.28	-13.00	40.28	265	112	Vertical



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Test Band = UL CA Band 4A-13A_ TM1
Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	40.96	-95.17	-54.21	-13.00	41.21	263	98	Horizontal
2	2339.52	40.56	-92.21	-51.65	-13.00	38.65	251	17	Horizontal
3	3119.36	50.99	-111.58	-60.59	-13.00	47.59	174	82	Horizontal
4	3447.18	51.05	-111.65	-60.60	-13.00	47.60	162	3	Horizontal
5	5170.77	48.38	-106.85	-58.47	-13.00	45.47	284	181	Horizontal
6	6894.36	48.38	-101.71	-53.33	-13.00	40.33	177	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	40.73	-95.17	-54.44	-13.00	41.44	263	38	Vertical
2	2339.52	40.37	-92.21	-51.84	-13.00	38.84	251	215	Vertical
3	3119.36	50.63	-111.58	-60.95	-13.00	47.95	142	246	Vertical
4	3447.18	50.52	-111.65	-61.13	-13.00	48.13	265	130	Vertical
5	5170.77	48.87	-106.85	-57.98	-13.00	44.98	255	180	Vertical
6	6894.36	48.73	-101.71	-52.98	-13.00	39.98	148	229	Vertical



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Test Band = UL CA Band 4A-13A_ TM1
Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.68	41.25	-95.16	-53.91	-13.00	40.91	251	357	Horizontal
2	2347.02	40.10	-92.18	-52.08	-13.00	39.08	142	266	Horizontal
3	3129.36	50.51	-111.55	-61.04	-13.00	48.04	263	227	Horizontal
4	3472.18	53.13	-111.61	-58.48	-13.00	45.48	251	193	Horizontal
5	5208.27	49.63	-106.80	-57.17	-13.00	44.17	172	275	Horizontal
6	6944.36	47.64	-101.67	-54.03	-13.00	41.03	262	350	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.68	40.67	-95.16	-54.49	-13.00	41.49	296	138	Vertical
2	2347.02	40.55	-92.18	-51.63	-13.00	38.63	362	1	Vertical
3	3129.36	52.66	-111.55	-58.89	-13.00	45.89	284	32	Vertical
4	3472.18	53.81	-111.61	-57.80	-13.00	44.80	175	3	Vertical
5	5208.27	49.17	-106.80	-57.63	-13.00	44.63	265	3	Vertical
6	6944.36	46.68	-101.67	-54.99	-13.00	41.99	247	243	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	1.60	0.002046	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	1.10	0.001407	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	1.80	0.002302	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	1.20	0.001535	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	-0.20	-0.000256	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	1.50	0.001918	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-2.30	-0.002941	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-0.30	-0.000384	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	0.60	0.000767	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	0.60	0.000767	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	-0.50	-0.000639	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	1.30	0.001662	PASS

---End of Attachment---



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