APPENDIX B: TEST RESULTS FOR UTRA OPERATING BAND 4

APPENDIX B.1: EFFECTIVE (ISOTROPIC) RADIATED POWER 2
Test Result 2
WCDMA 2
HSDPA 2
HSUPA 2
APPENDIX B.2: PEAK-TO AVERAGE RATIO 3
Test Result 3
Test Graphs 4
APPENDIX B.3: 26DB BANDWIDTH AND OCCUPIED BANDWIDTH 15
Test Result 15
Test Graphs 16
APPENDIX B.4: BAND EDGE 27
Test Result 27
Test Graphs 28
APPENDIX B.5: CONDUCTED SPURIOUS EMISSIONS 36
Test Result 36
General: 36
Test Graphs 39
General: 39
APPENDIX B.6: FREQUENCY STABILITY 90
Test Result 90

APPENDIX B.1: EFFECTIVE (ISOTROPIC) RADIATED POWER

Test Result

WCDMA

Band	Channel	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1312	23.69	26.49	30.00	PASS
Band4	1413	23.29	26.09	30.00	PASS
Band4	1513	23.81	26.61	30.00	PASS

HSDPA

Band	Channel	SubTest	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1312	1	22.73	22.73	30.00	PASS
Band4	1312	2	22.24	22.24	30.00	PASS
Band4	1312	3	22.09	22.09	30.00	PASS
Band4	1312	4	22.08	22.08	30.00	PASS
Band4	1413	1	22.43	22.43	30.00	PASS
Band4	1413	2	22.15	22.15	30.00	PASS
Band4	1413	3	22.31	22.31	30.00	PASS
Band4	1413	4	22.27	22.27	30.00	PASS
Band4	1513	1	22.80	22.80	30.00	PASS
Band4	1513	2	22.25	22.25	30.00	PASS
Band4	1513	3	22.27	22.27	30.00	PASS
Band4	1513	4	22.19	22.19	30.00	PASS

HSUPA

Band	Channel	SubTest	Power(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band4	1312	1	22.44	22.44	30.00	PASS
Band4	1312	2	21.70	21.7	30.00	PASS
Band4	1312	3	21.05	21.05	30.00	PASS
Band4	1312	4	21.59	21.59	30.00	PASS
Band4	1312	5	22.56	22.56	30.00	PASS
Band4	1413	1	21.74	21.74	30.00	PASS
Band4	1413	2	21.63	21.63	30.00	PASS
Band4	1413	3	21.06	21.06	30.00	PASS
Band4	1413	4	21.64	21.64	30.00	PASS
Band4	1413	5	22.68	22.68	30.00	PASS
Band4	1513	1	22.40	22.4	30.00	PASS
Band4	1513	2	21.58	21.58	30.00	PASS
Band4	1513	3	21.40	21.4	30.00	PASS
Band4	1513	4	21.98	21.98	30.00	PASS
Band4	1513	5	22.55	22.55	30.00	PASS

APPENDIX B.2: PEAK-TO AVERAGE RATIO

Test Result

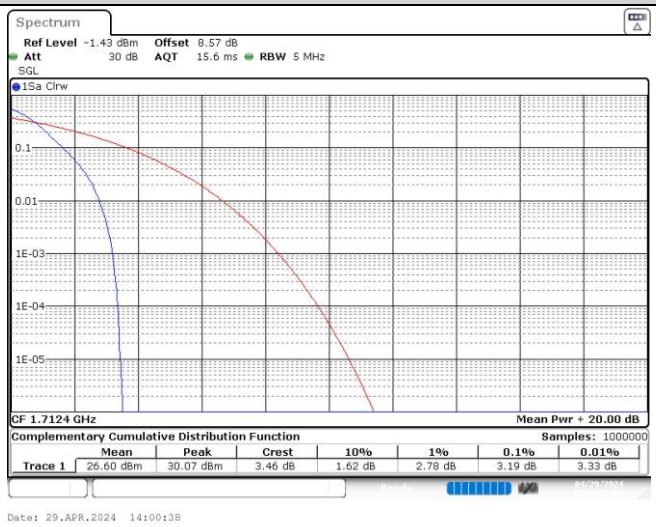
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band4	1312	3.19	13	PASS
Band4	1413	3.39	13	PASS
Band4	1513	2.75	13	PASS

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	1	3.3	13	PASS
Band4	1312	2	3.45	13	PASS
Band4	1312	3	4	13	PASS
Band4	1312	4	3.62	13	PASS
Band4	1413	1	3.39	13	PASS
Band4	1413	2	3.51	13	PASS
Band4	1413	3	3.65	13	PASS
Band4	1413	4	3.68	13	PASS
Band4	1513	1	3.07	13	PASS
Band4	1513	2	3.3	13	PASS
Band4	1513	3	3.42	13	PASS
Band4	1513	4	3.45	13	PASS

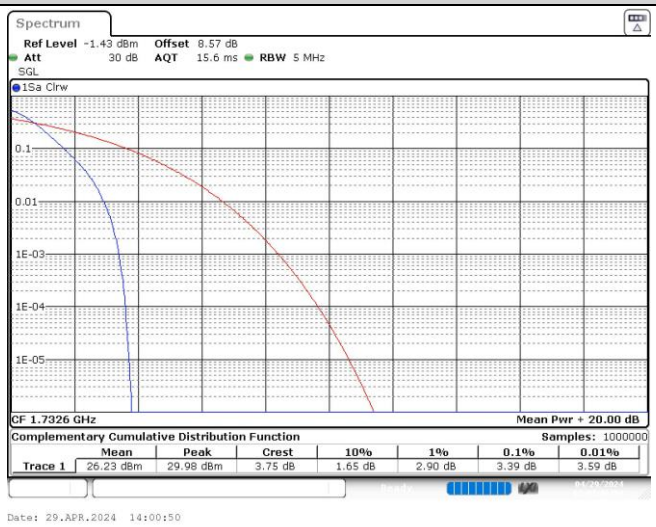
Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band4	1312	1	4.55	13	PASS
Band4	1312	2	5.25	13	PASS
Band4	1312	3	5.45	13	PASS
Band4	1312	4	5.01	13	PASS
Band4	1312	5	4.26	13	PASS
Band4	1413	1	4.75	13	PASS
Band4	1413	2	5.3	13	PASS
Band4	1413	3	5.65	13	PASS
Band4	1413	4	5.51	13	PASS
Band4	1413	5	4.38	13	PASS
Band4	1513	1	4.23	13	PASS
Band4	1513	2	4.72	13	PASS
Band4	1513	3	5.28	13	PASS
Band4	1513	4	4.7	13	PASS
Band4	1513	5	3.97	13	PASS

Test Graphs

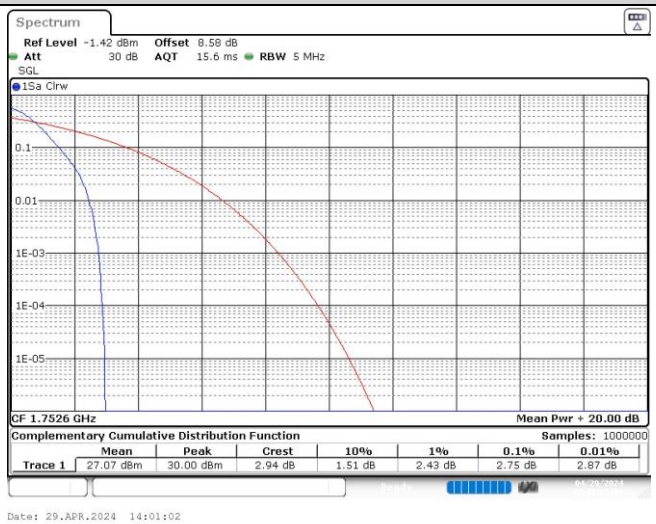
Band4-1312



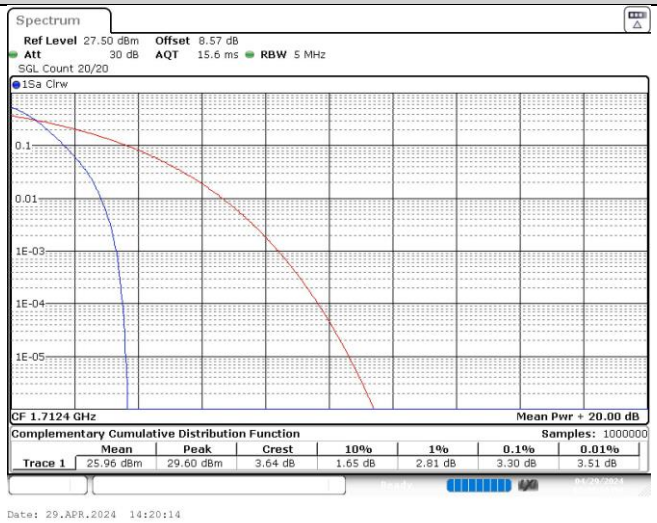
Band4-1413



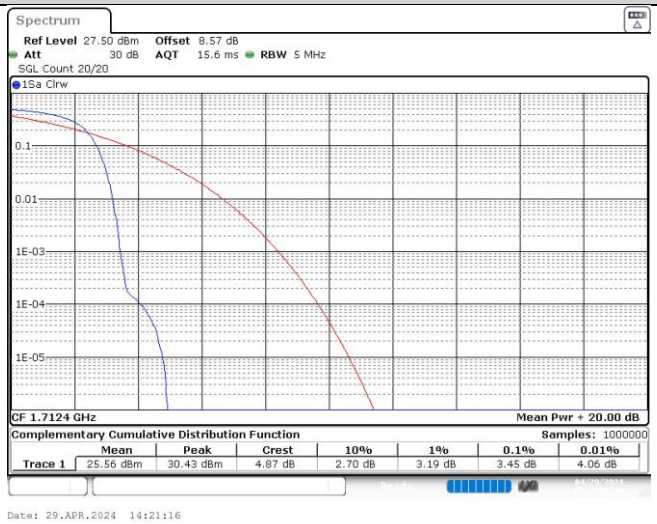
Band4-1513



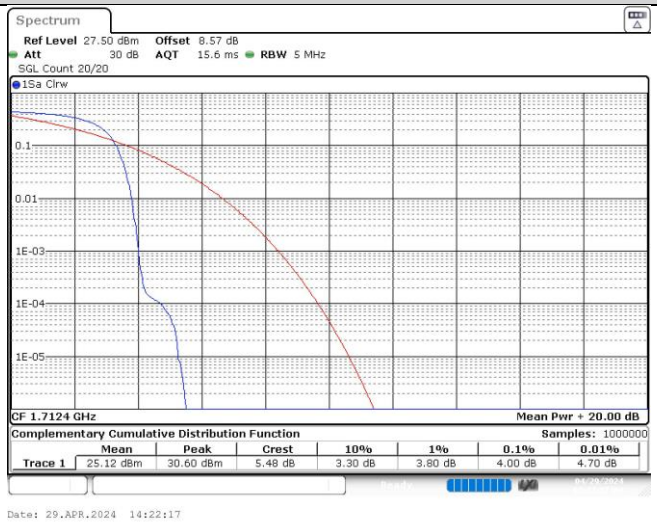
Band4-1312-1



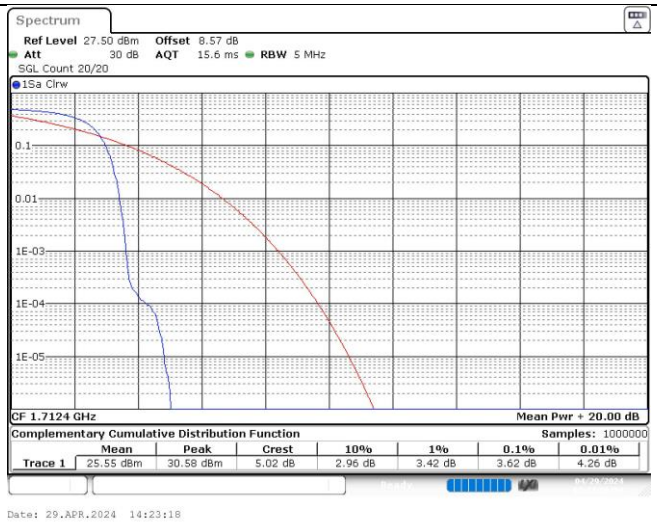
Band4-1312-2



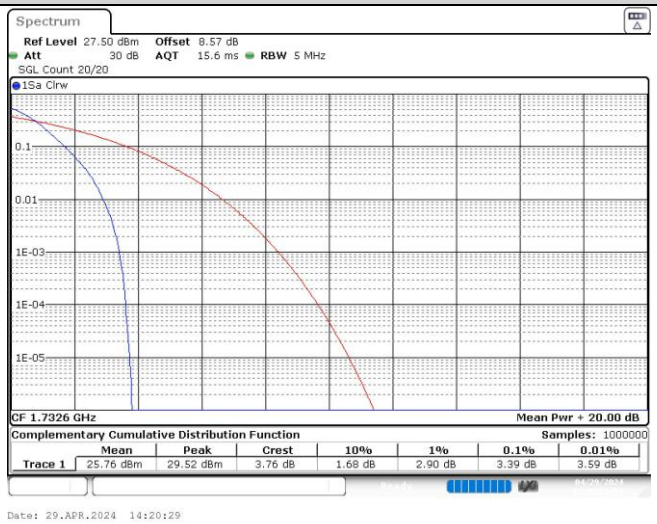
Band4-1312-3



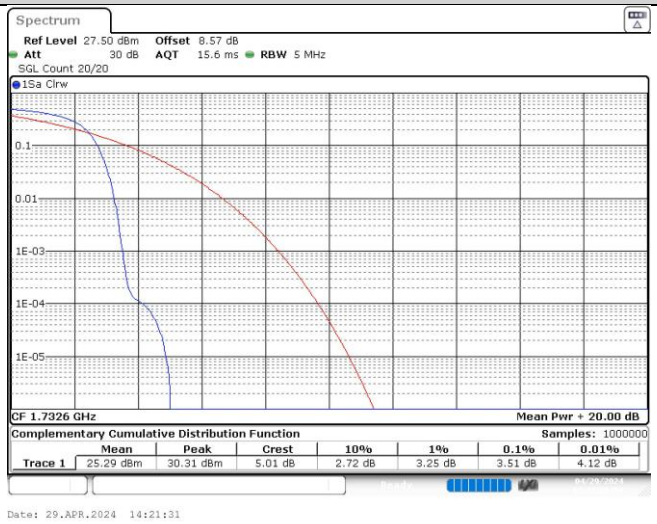
Band4-1312-4



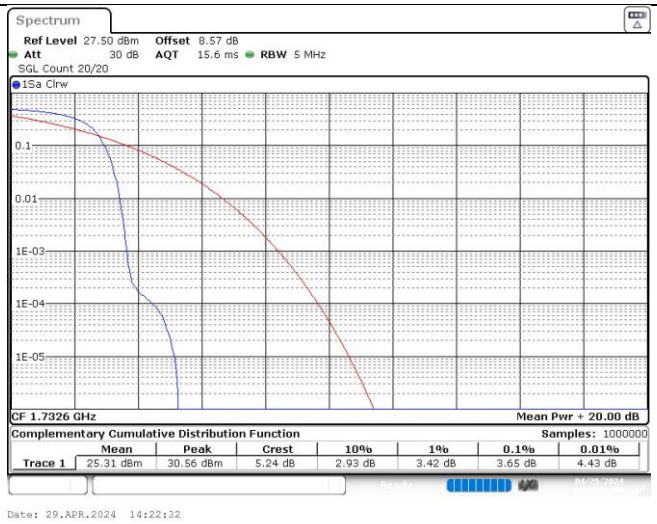
Band4-1413-1



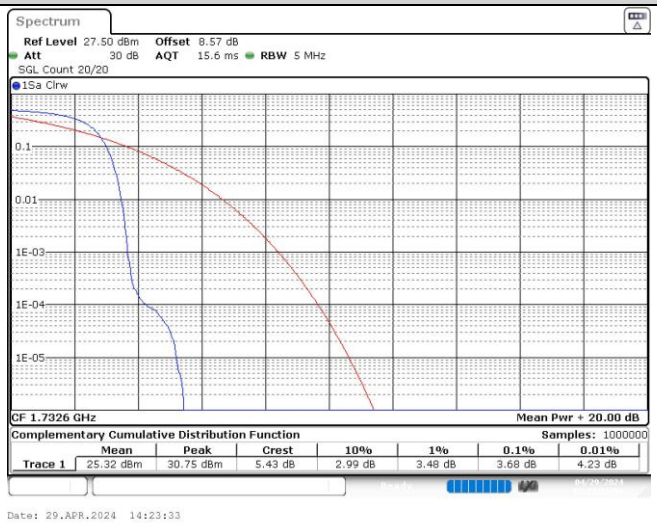
Band4-1413-2



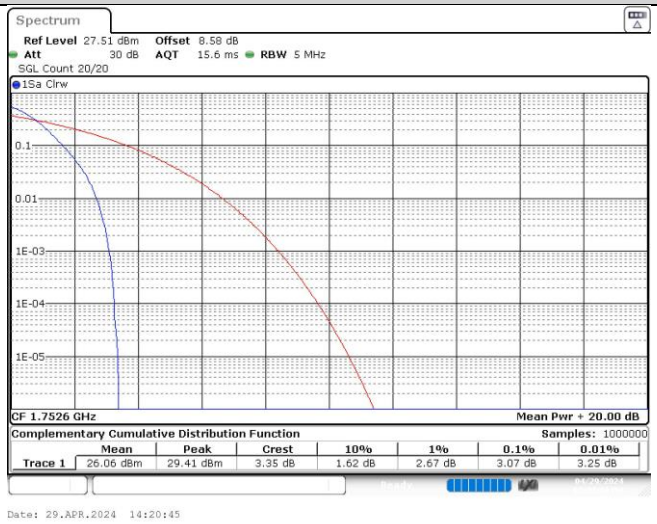
Band4-1413-3



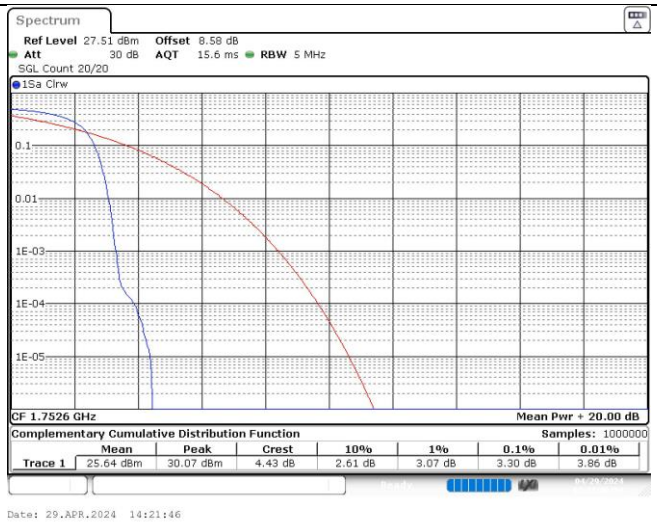
Band4-1413-4



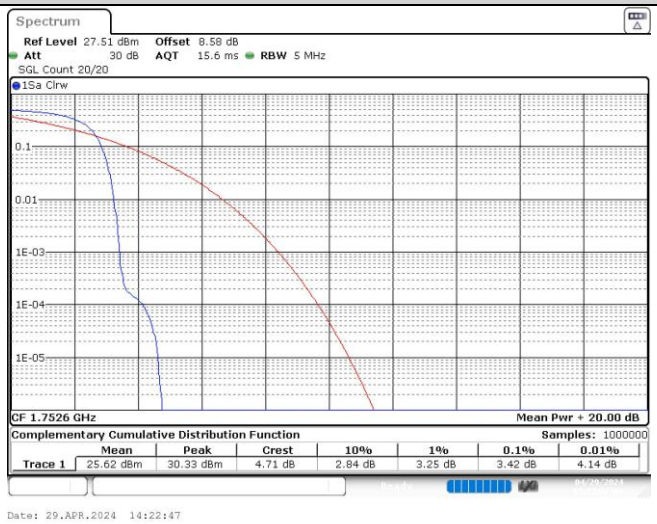
Band4-1513-1



Band4-1513-2

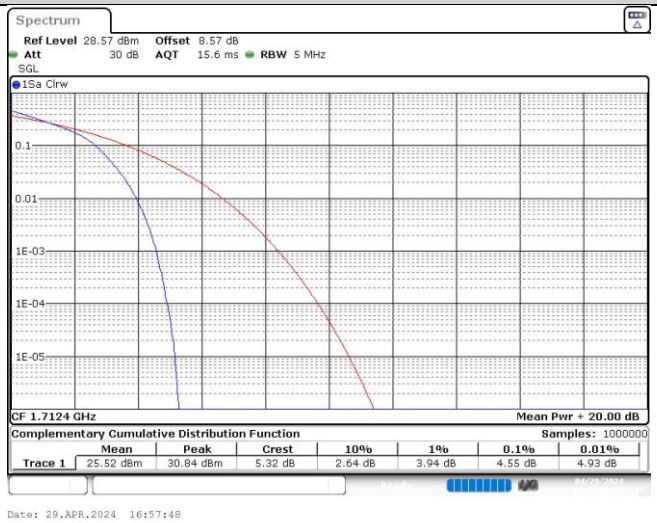


Band4-1513-3

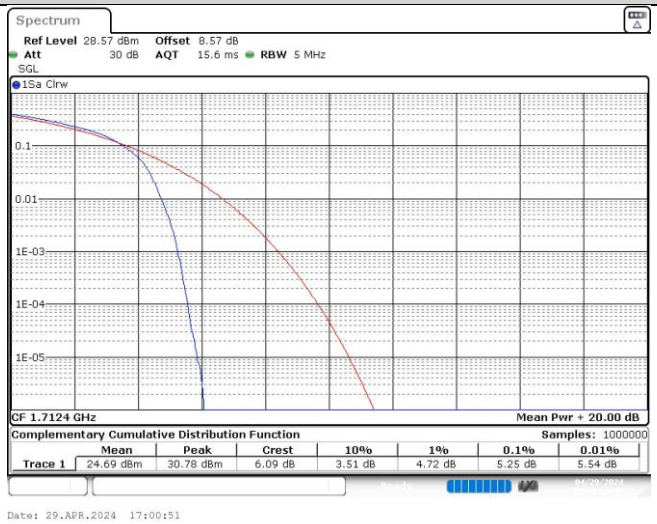


Band4-1513-4

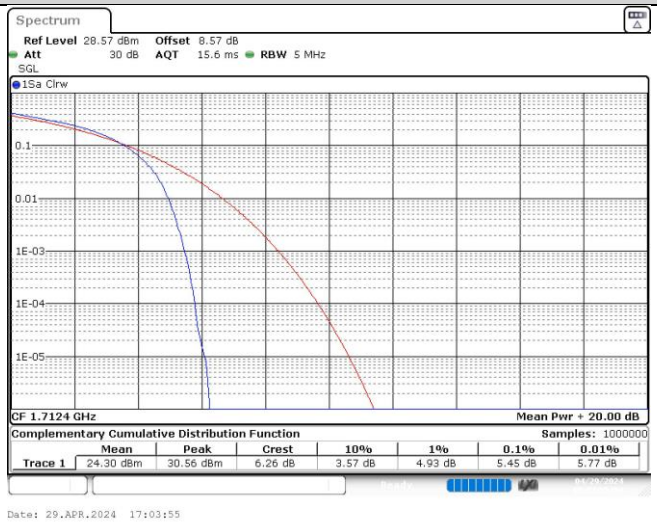
Band4-1312-1



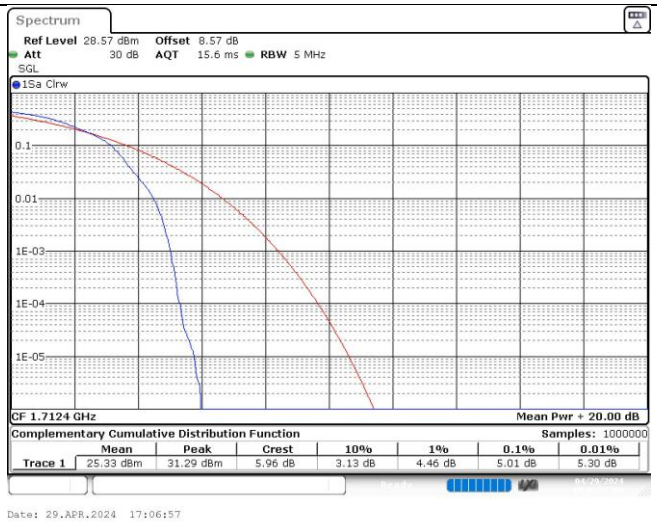
Band4-1312-2



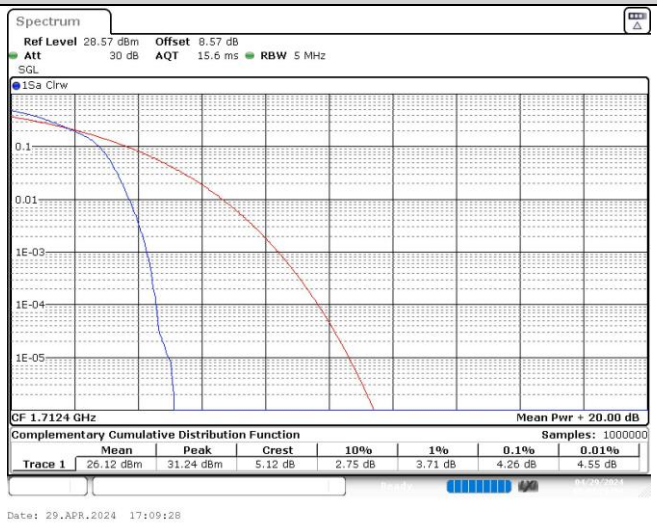
Band4-1312-3



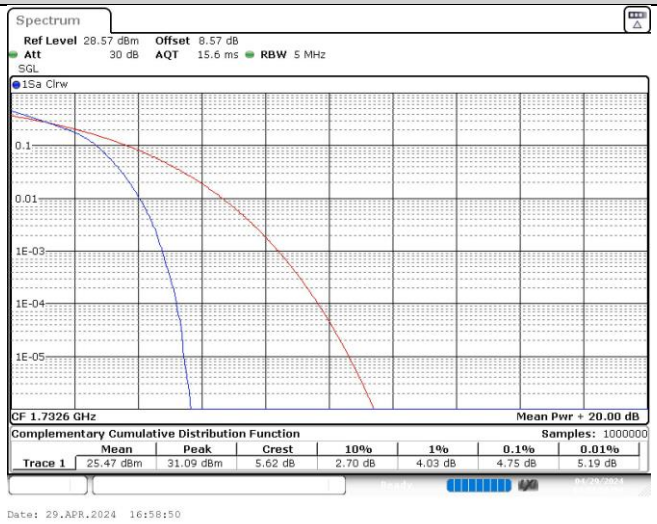
Band4-1312-4



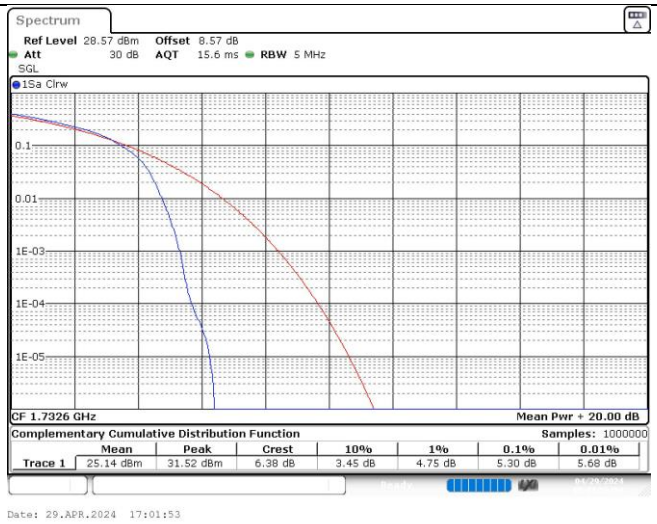
Band4-1312-5



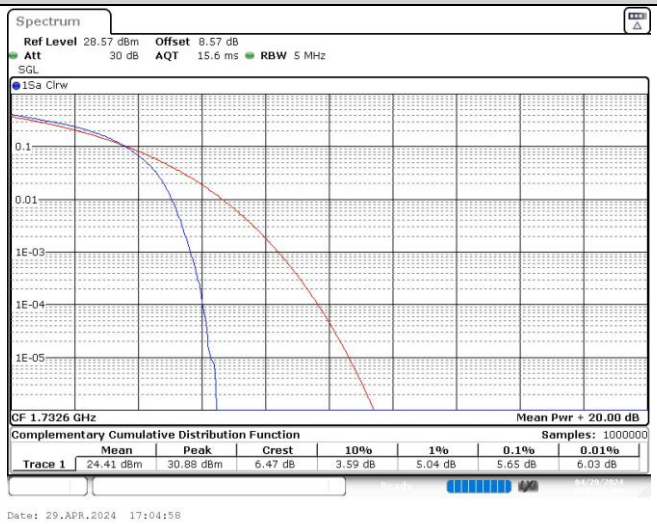
Band4-1413-1



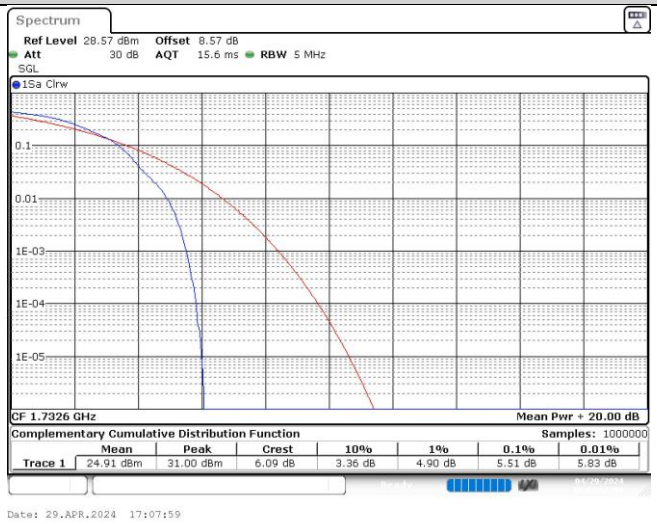
Band4-1413-2



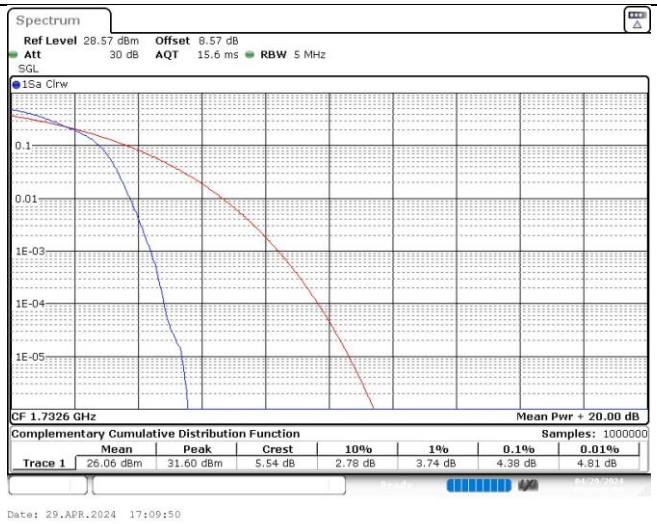
Band4-1413-3



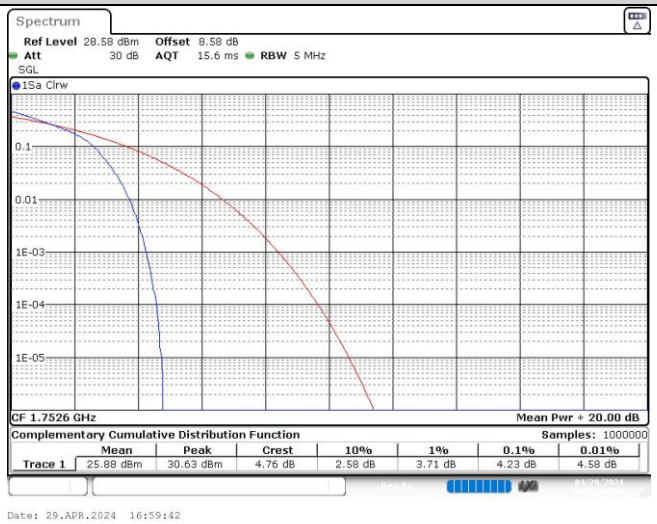
Band4-1413-4



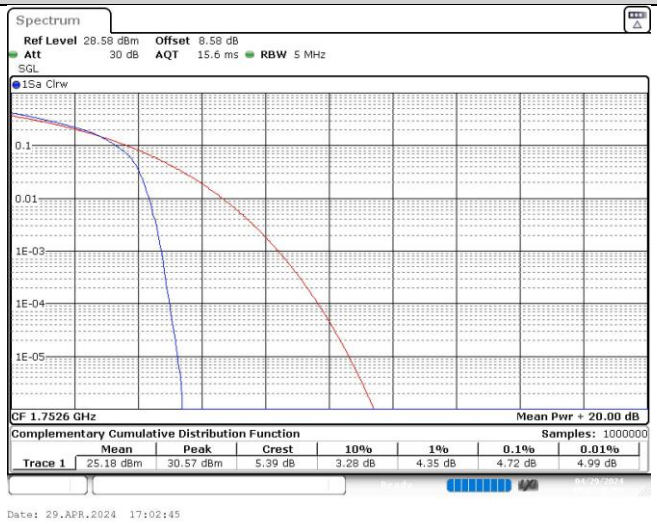
Band4-1413-5



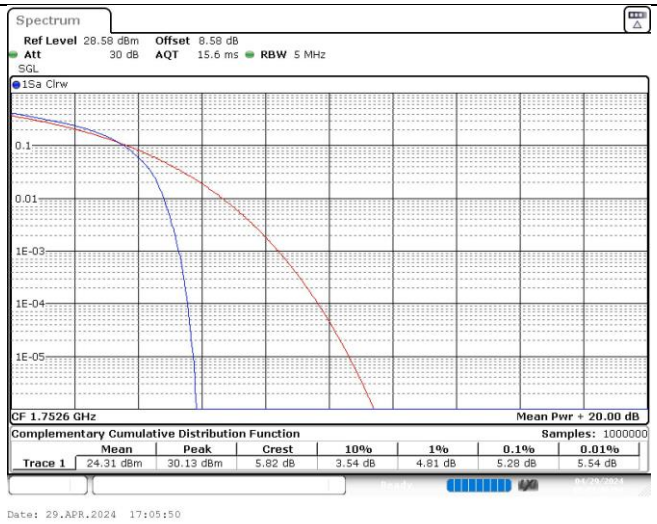
Band4-1513-1



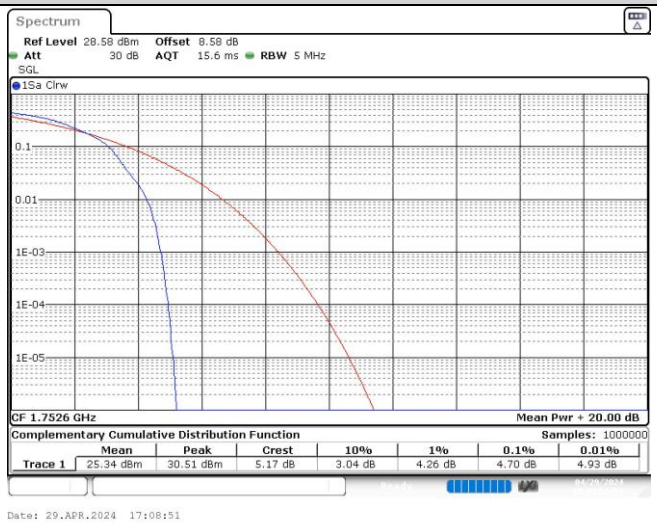
Band4-1513-2



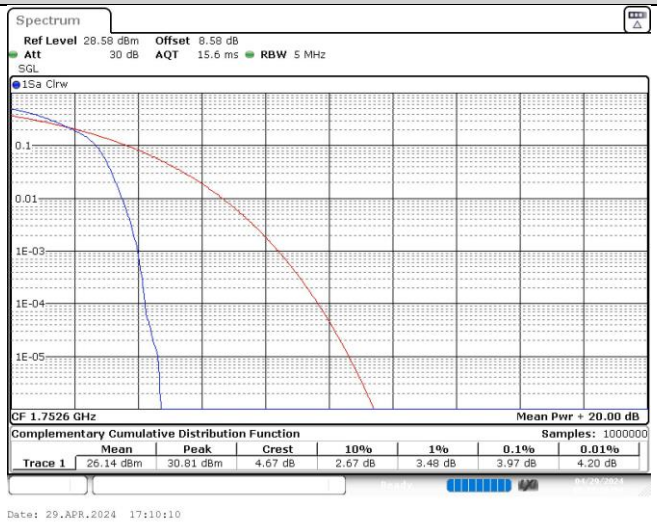
Band4-1513-3



Band4-1513-4



Band4-1513-5



APPENDIX B.3: 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

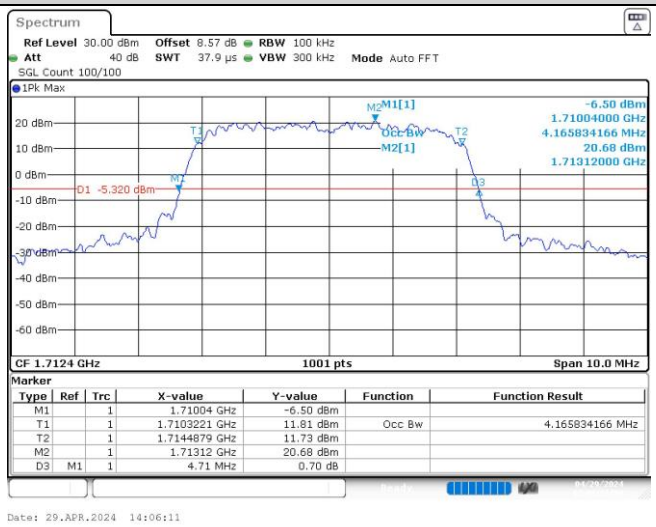
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band4	1312	4.166	4.71	---	PASS
Band4	1413	4.106	4.71	---	PASS
Band4	1513	4.156	4.76	---	PASS

Band	Channel	SubTest	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band4	1312	1	4.146	4.66	---	PASS
Band4	1312	2	4.106	4.71	---	PASS
Band4	1312	3	4.146	4.73	---	PASS
Band4	1312	4	4.126	4.72	---	PASS
Band4	1413	1	4.146	4.70	---	PASS
Band4	1413	2	4.156	4.76	---	PASS
Band4	1413	3	4.146	4.75	---	PASS
Band4	1413	4	4.116	4.74	---	PASS
Band4	1513	1	4.136	4.73	---	PASS
Band4	1513	2	4.166	4.75	---	PASS
Band4	1513	3	4.136	4.71	---	PASS
Band4	1513	4	4.126	4.70	---	PASS

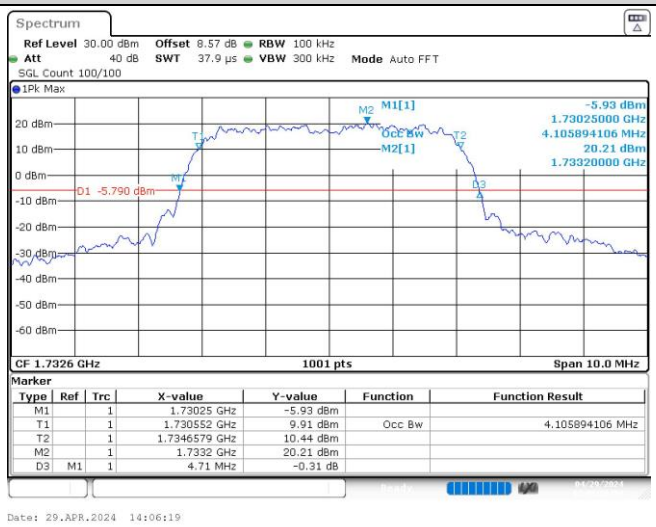
Band	Channel	SubTest	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band4	1312	1	4.136	4.73	---	PASS
Band4	1312	2	4.136	4.71	---	PASS
Band4	1312	3	4.136	4.73	---	PASS
Band4	1312	4	4.126	4.70	---	PASS
Band4	1312	5	4.146	4.74	---	PASS
Band4	1413	1	4.146	4.71	---	PASS
Band4	1413	2	4.136	4.72	---	PASS
Band4	1413	3	4.156	4.73	---	PASS
Band4	1413	4	4.156	4.76	---	PASS
Band4	1413	5	4.166	4.73	---	PASS
Band4	1513	1	4.126	4.70	---	PASS
Band4	1513	2	4.146	4.71	---	PASS
Band4	1513	3	4.156	4.74	---	PASS
Band4	1513	4	4.136	4.70	---	PASS
Band4	1513	5	4.126	4.73	---	PASS

Test Graphs

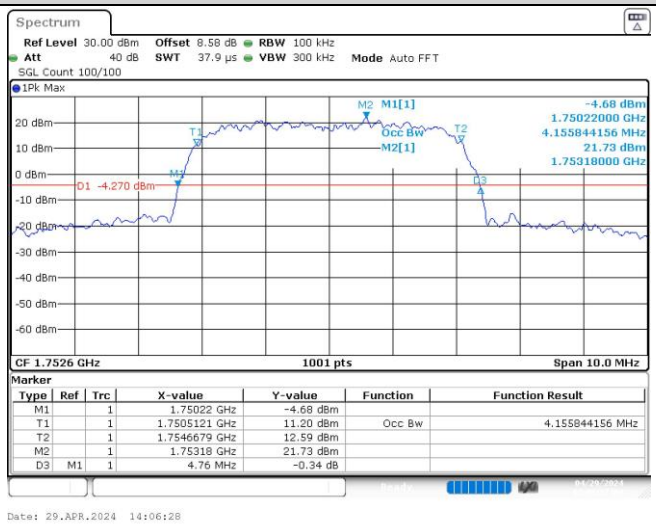
Band4-1312



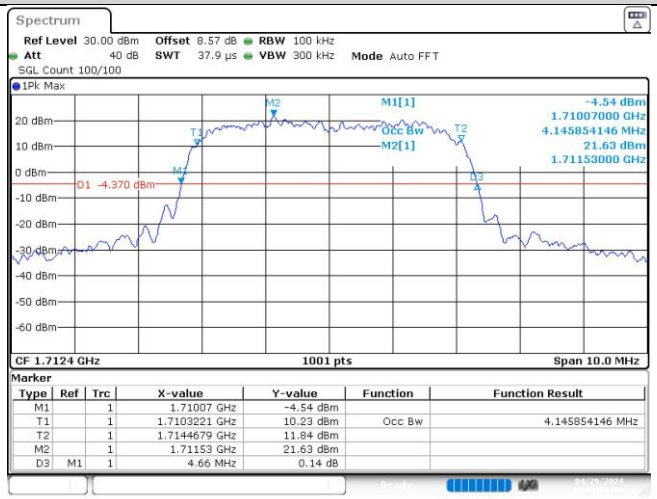
Band4-1413



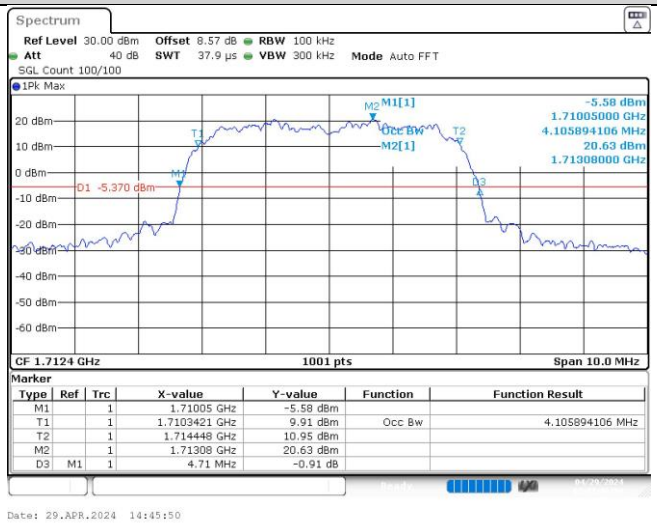
Band4-1513



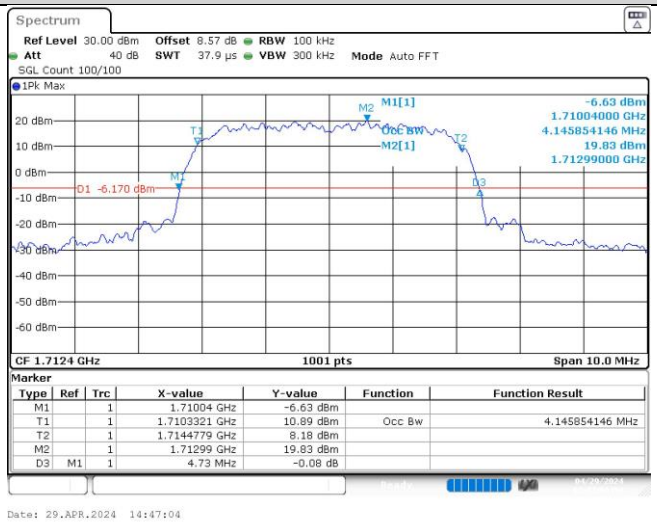
Band4-1312-1



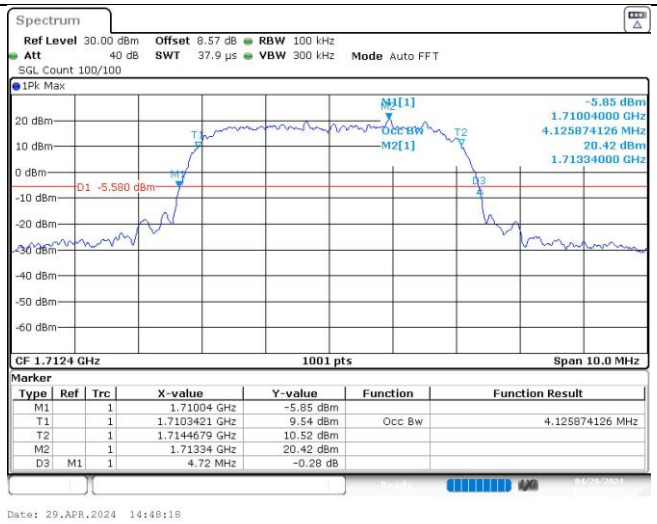
Band4-1312-2



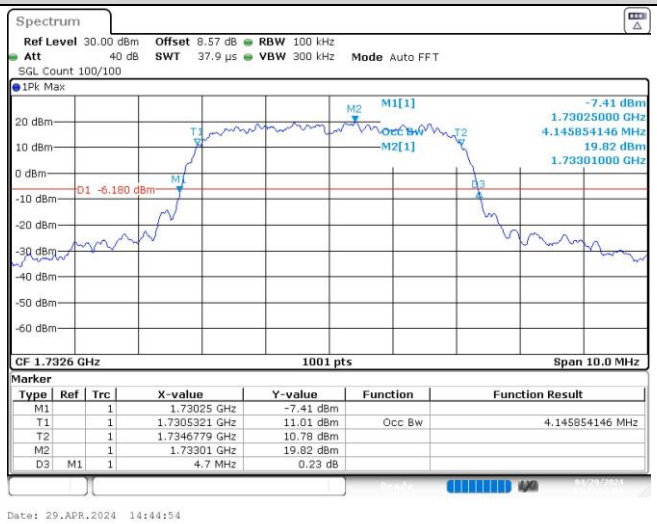
Band4-1312-3



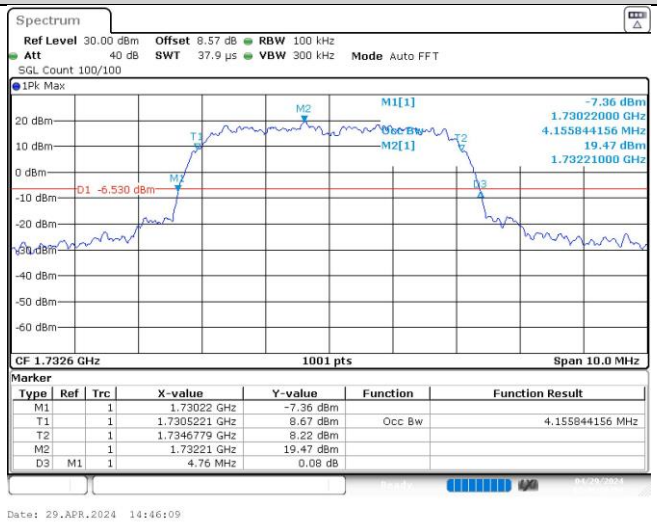
Band4-1312-4



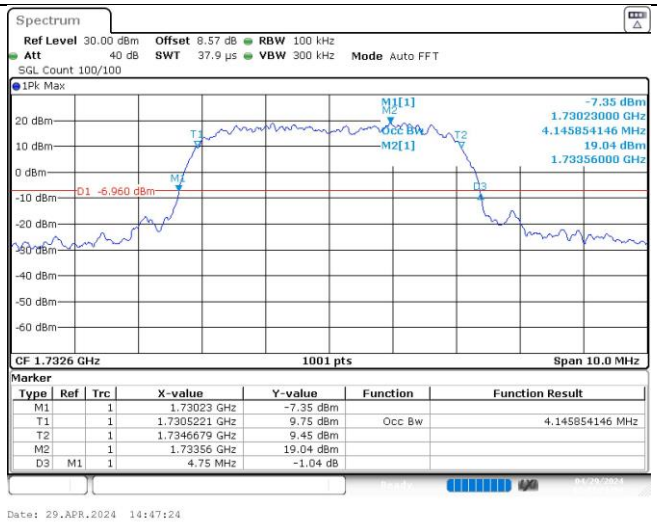
Band4-1413-1



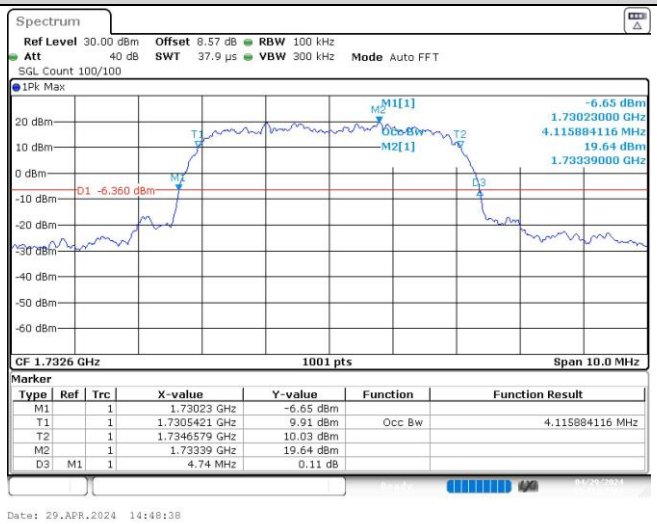
Band4-1413-2



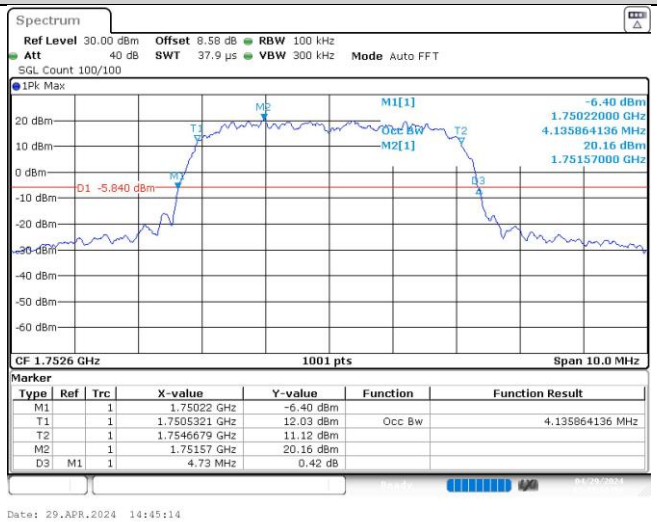
Band4-1413-3



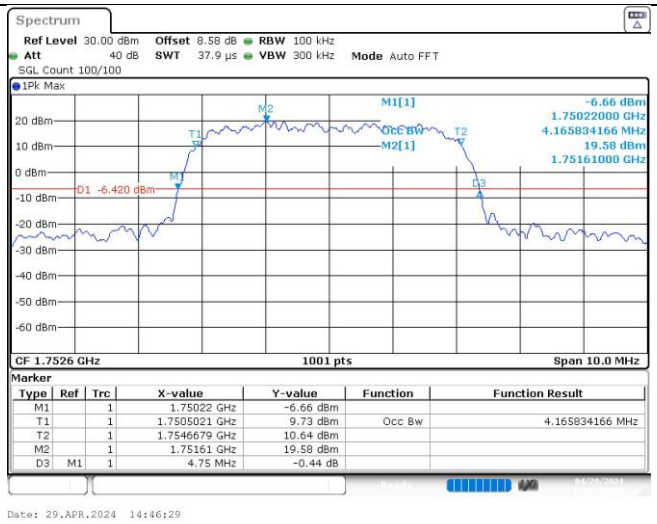
Band4-1413-4



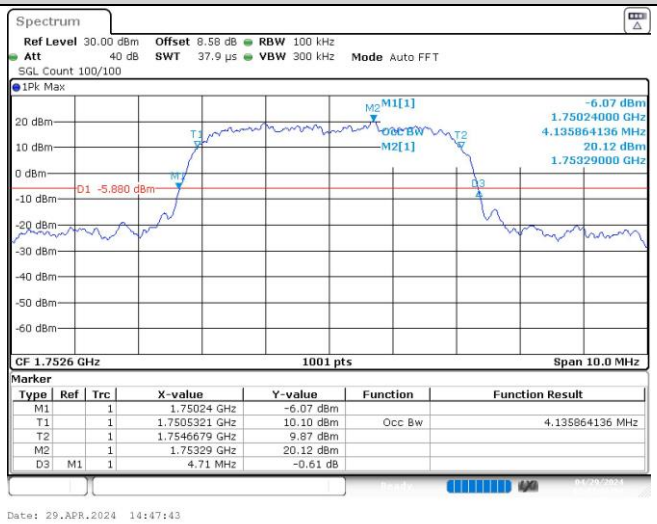
Band4-1513-1



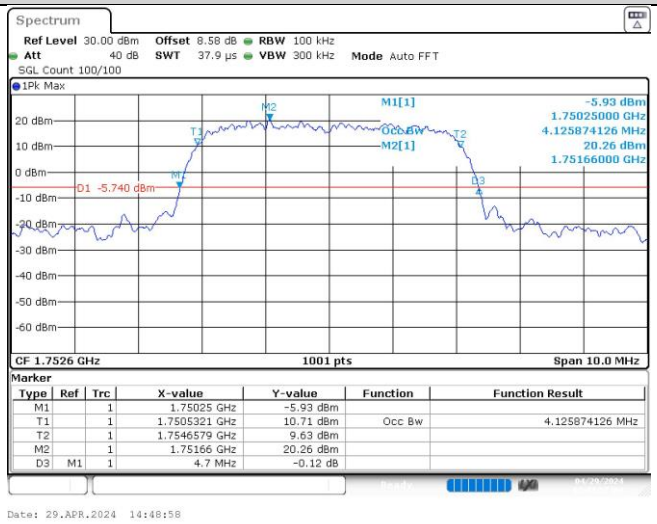
Band4-1513-2



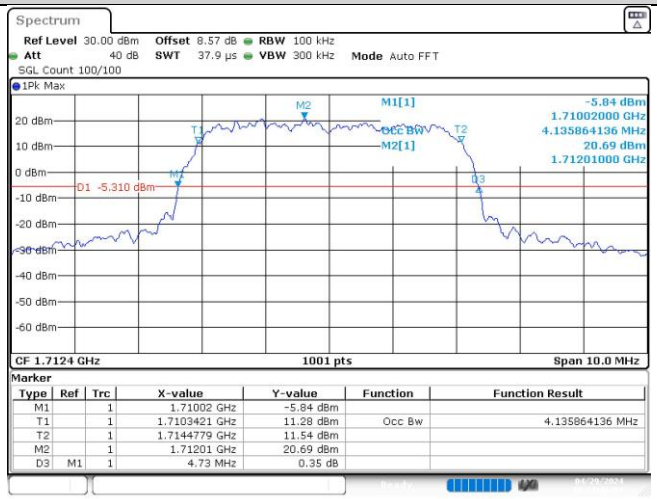
Band4-1513-3



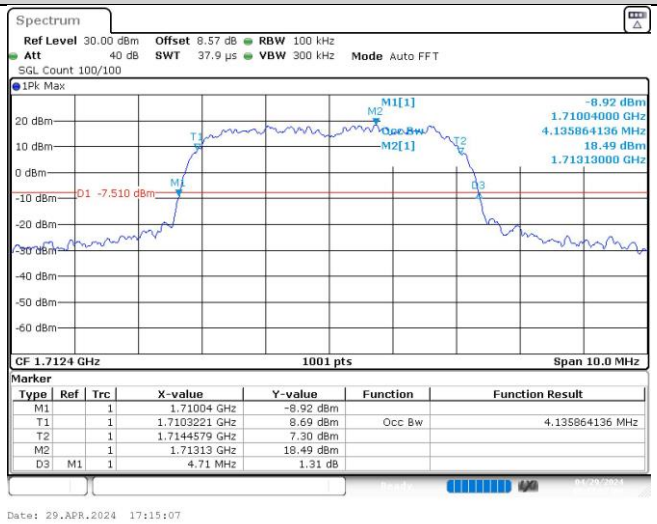
Band4-1513-4



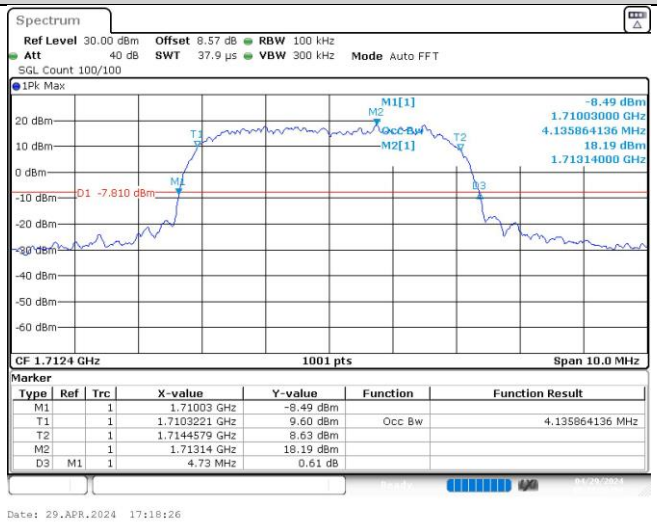
Band4-1312-1



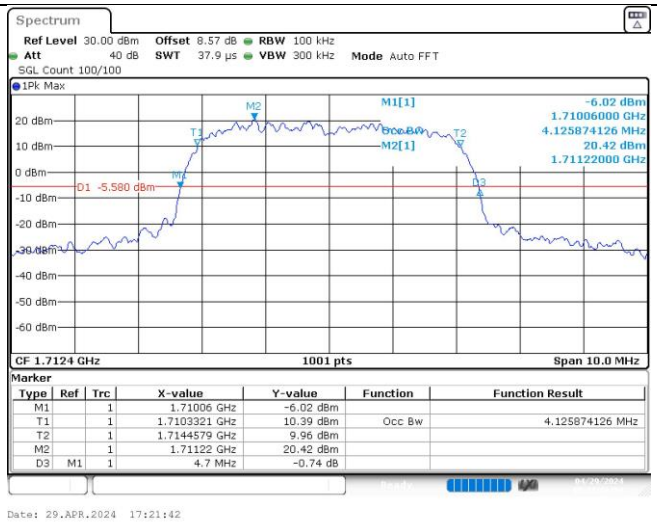
Band4-1312-2



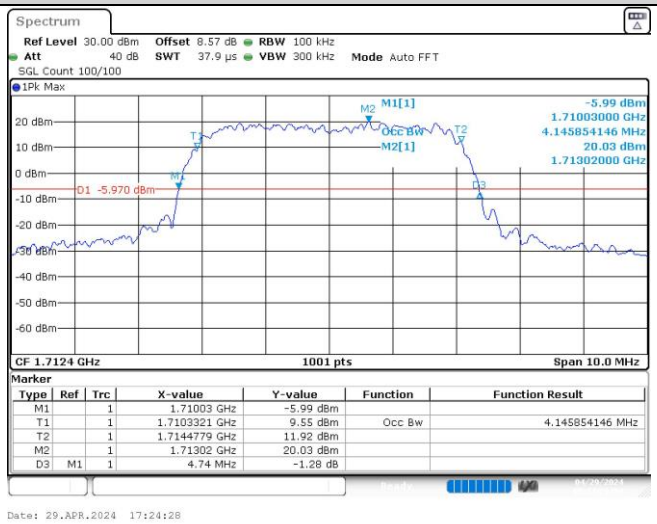
Band4-1312-3



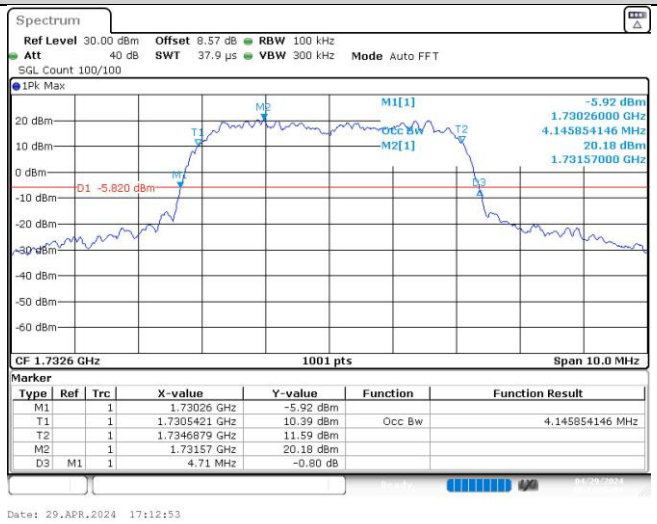
Band4-1312-4



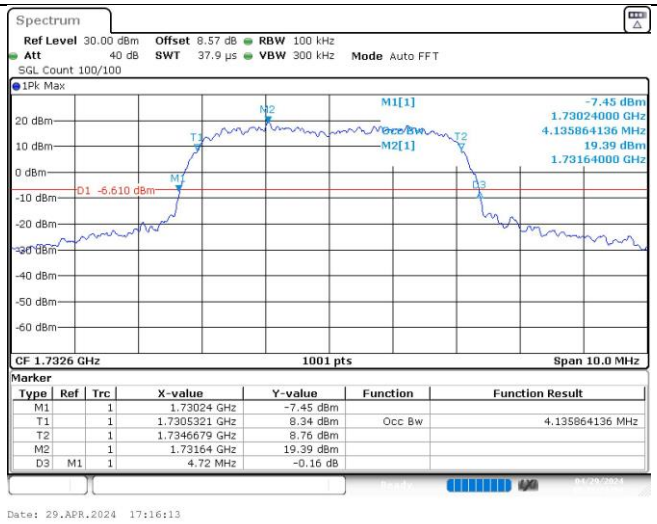
Band4-1312-5



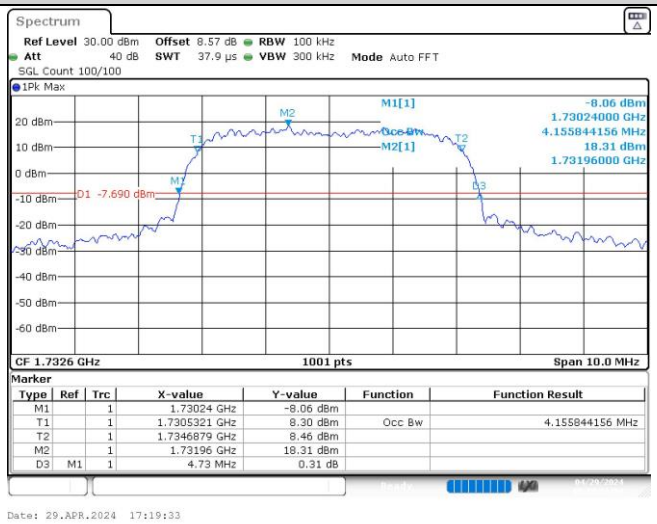
Band4-1413-1



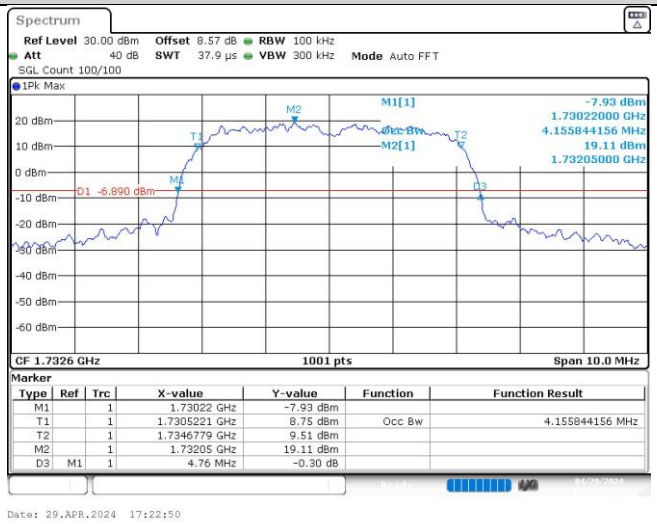
Band4-1413-2



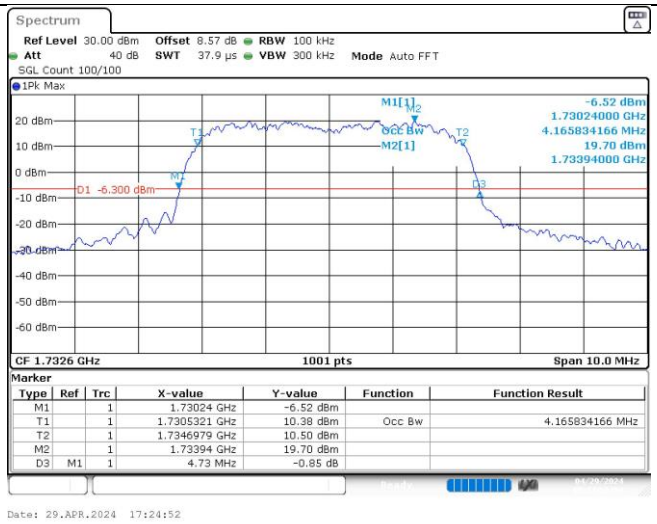
Band4-1413-3



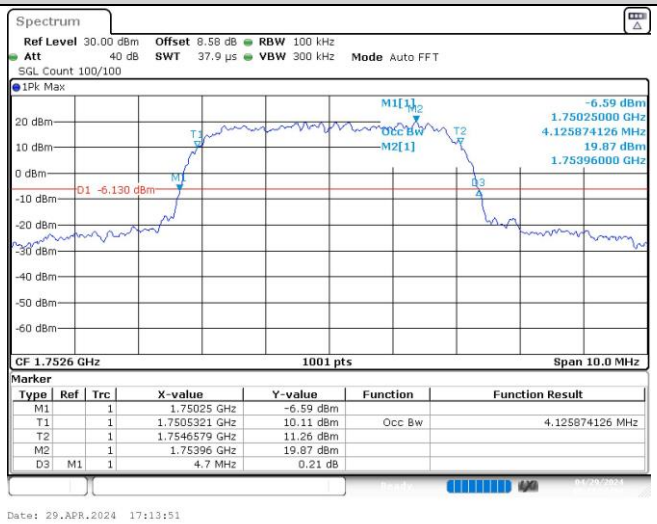
Band4-1413-4



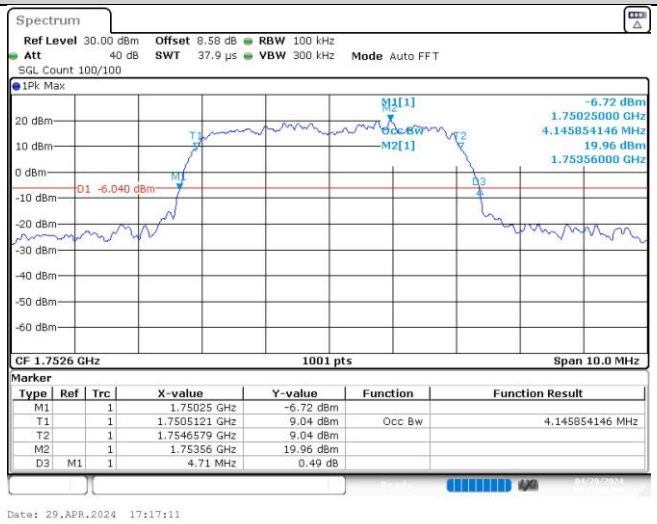
Band4-1413-5



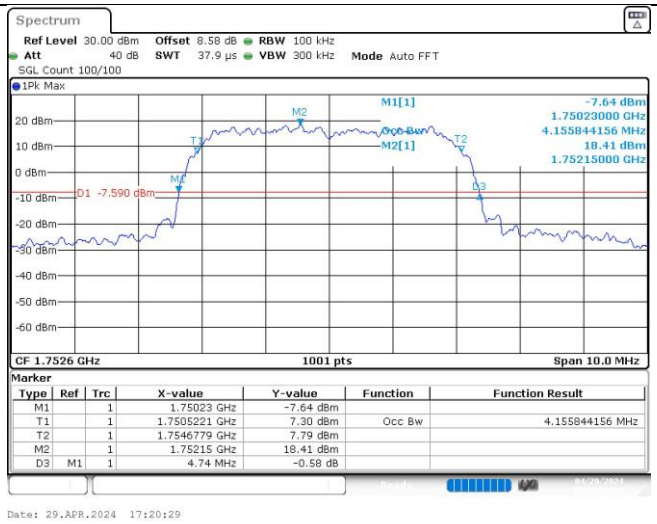
Band4-1513-1



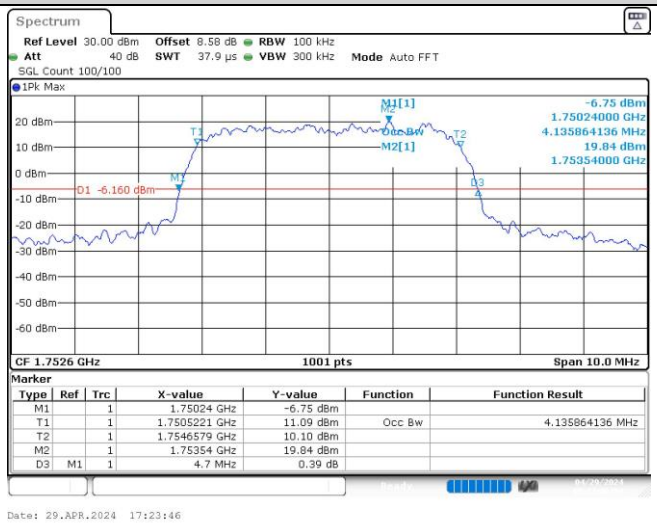
Band4-1513-2



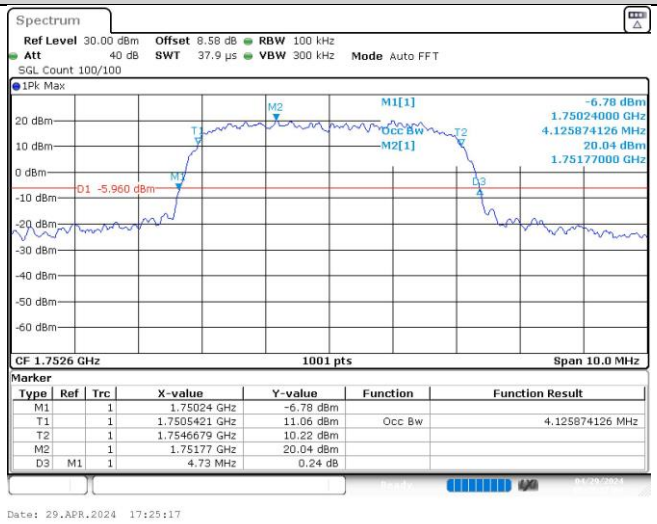
Band4-1513-3



Band4-1513-4



Band4-1513-5



APPENDIX B.4: BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1710.00	-14.83	-13	PASS
Band4	1513	1755.00	-15.35	-13	PASS

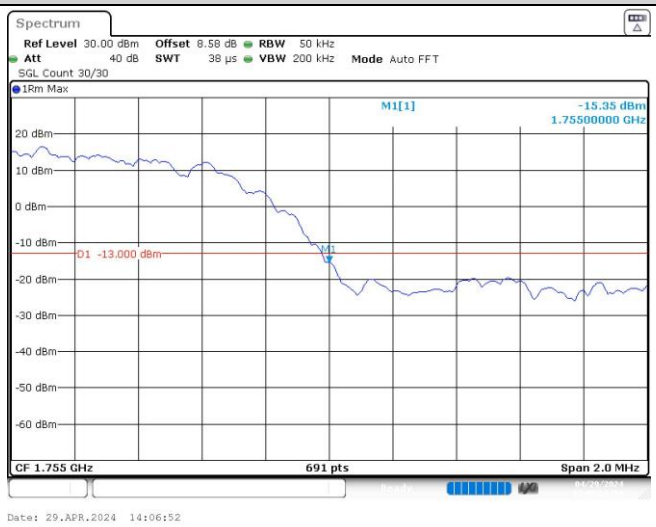
Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1	1710.00	-16.93	-13	PASS
Band4	1312	2	1710.00	-16.30	-13	PASS
Band4	1312	3	1710.00	-15.84	-13	PASS
Band4	1312	4	1710.00	-15.84	-13	PASS
Band4	1513	1	1755.00	-17.02	-13	PASS
Band4	1513	2	1755.00	-17.03	-13	PASS
Band4	1513	3	1755.20	-18.31	-13	PASS
Band4	1513	4	1755.13	-18.89	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1	1710.00	-16.39	-13	PASS
Band4	1312	2	1710.00	-19.43	-13	PASS
Band4	1312	3	1709.85	-20.58	-13	PASS
Band4	1312	4	1710.00	-19.71	-13	PASS
Band4	1312	5	1710.00	-17.74	-13	PASS
Band4	1513	1	1755.00	-18.93	-13	PASS
Band4	1513	2	1755.00	-18.61	-13	PASS
Band4	1513	3	1755.00	-18.54	-13	PASS
Band4	1513	4	1755.00	-16.50	-13	PASS
Band4	1513	5	1755.00	-15.73	-13	PASS

Test Graphs

Band4-1312

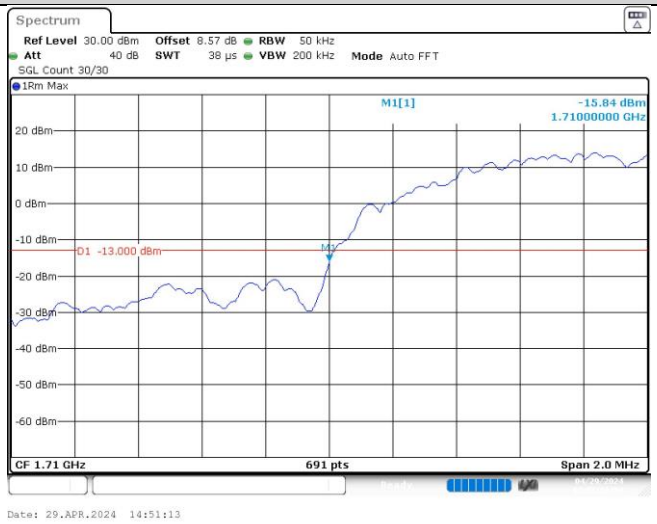
Band4-1513



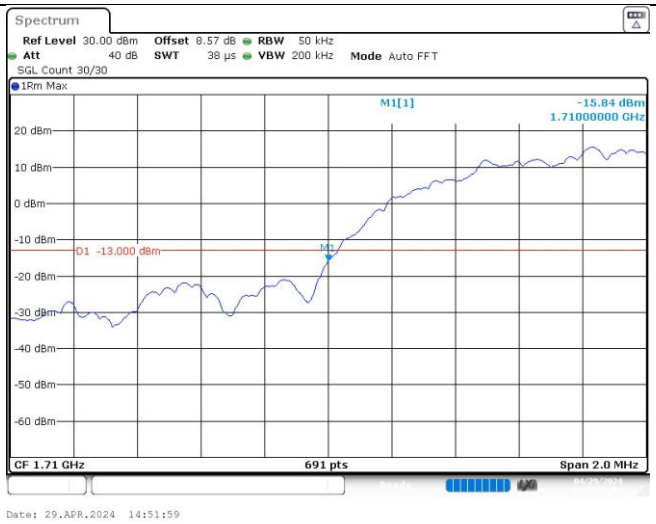
Band4-1312-1

Band4-1312-2

Band4-1312-3



Band4-1312-4



Band4-1513-1

Band4-1513-2

Band4-1513-3

Spectrum
Ref Level 30.00 dBm Offset 8.58 dB RBW 50 kHz
Att 40 dB SWT 38 µs VBW 200 kHz Mode Auto FFT
SGL Count 30/30
1Rm Max
M1[1] -18.34 dBm
1.75520000 GHz
D1 -13.000 dBm
M1
CF 1.755 GHz
691 pts
Span 2.0 MHz
Date: 29.APR.2024 14:51:28

Band4-1513-4

Spectrum
Ref Level 30.00 dBm Offset 8.58 dB RBW 50 kHz
Att 40 dB SWT 38 µs VBW 200 kHz Mode Auto FFT
SGL Count 30/30
1Rm Max
M1[1] -18.89 dBm
1.75513000 GHz
D1 -13.000 dBm
M1
CF 1.755 GHz
691 pts
Span 2.0 MHz
Date: 29.APR.2024 14:52:14