APPENDIX C: TEST RESULTS FOR UTRA OPERATING BAND 5

APPENDIX C.1: EFFECTIVE (ISOTROPIC) RADIATED POWER 2
Test Result 2
WCDMA 2
HSDPA 2
HSUPA 2
APPENDIX C.2: PEAK-TO AVERAGE RATIO 3
Test Result 3
Test Graphs 4
APPENDIX C.3: 26DB BANDWIDTH AND OCCUPIED BANDWIDTH 15
Test Result 15
Test Graphs 16
APPENDIX C.4: BAND EDGE 27
Test Result 27
Test Graphs 28
APPENDIX C.5: CONDUCTED SPURIOUS EMISSIONS 36
Test Result 36
General: 36
Test Graphs 39
General: 39
APPENDIX C.6: FREQUENCY STABILITY 79
Test Result 79

APPENDIX C.1: EFFECTIVE (ISOTROPIC) RADIATED POWER

Test Result

WCDMA

Band	Channel	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	4132	22.84	28.24	38.5	PASS
Band5	4182	22.97	28.37	38.5	PASS
Band5	4233	23.09	28.49	38.5	PASS

HSDPA

Band	Channel	SubTest	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	4132	1	21.82	27.22	38.5	PASS
Band5	4132	2	21.25	26.65	38.5	PASS
Band5	4132	3	21.23	26.63	38.5	PASS
Band5	4132	4	21.14	26.54	38.5	PASS
Band5	4182	1	21.89	27.29	38.5	PASS
Band5	4182	2	21.23	26.63	38.5	PASS
Band5	4182	3	21.31	26.71	38.5	PASS
Band5	4182	4	21.31	26.71	38.5	PASS
Band5	4233	1	21.98	27.38	38.5	PASS
Band5	4233	2	21.32	26.72	38.5	PASS
Band5	4233	3	21.39	26.79	38.5	PASS
Band5	4233	4	21.32	26.72	38.5	PASS

HSUPA

Band	Channel	SubTest	Power(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band5	4132	1	21.29	26.69	38.5	PASS
Band5	4132	2	20.77	26.17	38.5	PASS
Band5	4132	3	20.61	26.01	38.5	PASS
Band5	4132	4	20.76	26.16	38.5	PASS
Band5	4132	5	21.77	27.17	38.5	PASS
Band5	4182	1	21.14	26.54	38.5	PASS
Band5	4182	2	20.73	26.13	38.5	PASS
Band5	4182	3	20.05	25.45	38.5	PASS
Band5	4182	4	20.97	26.37	38.5	PASS
Band5	4182	5	21.83	27.23	38.5	PASS
Band5	4233	1	21.38	26.78	38.5	PASS
Band5	4233	2	20.36	25.76	38.5	PASS
Band5	4233	3	19.72	25.12	38.5	PASS
Band5	4233	4	21.07	26.47	38.5	PASS
Band5	4233	5	22.11	27.51	38.5	PASS

APPENDIX C.2: PEAK-TO AVERAGE RATIO

Test Result

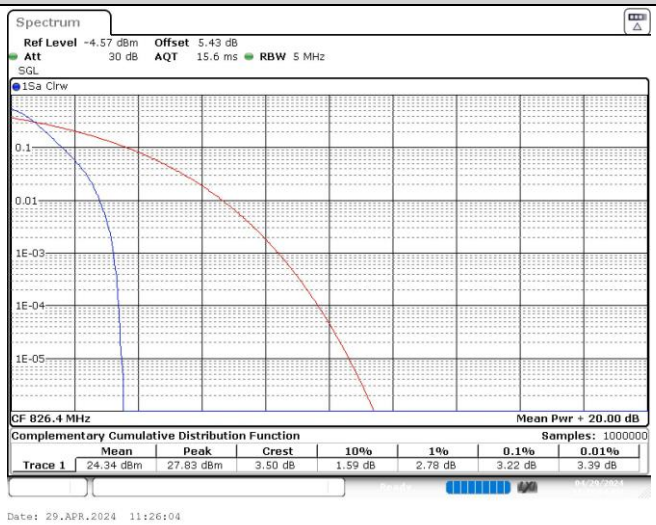
Band	Channel	Peak-to-Average Ratio(dB)	Limit(dBm)	Verdict
Band5	4132	3.22	13	PASS
Band5	4182	3.22	13	PASS
Band5	4233	3.13	13	PASS

Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band5	4132	1	3.28	13	PASS
Band5	4132	2	3.42	13	PASS
Band5	4132	3	3.57	13	PASS
Band5	4132	4	3.59	13	PASS
Band5	4182	1	3.3	13	PASS
Band5	4182	2	3.42	13	PASS
Band5	4182	3	3.57	13	PASS
Band5	4182	4	3.59	13	PASS
Band5	4233	1	3.25	13	PASS
Band5	4233	2	3.45	13	PASS
Band5	4233	3	3.62	13	PASS
Band5	4233	4	3.65	13	PASS

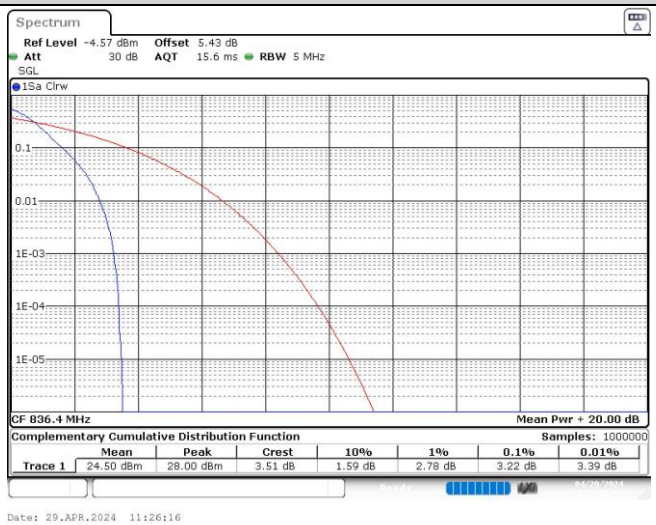
Band	Channel	SubTest	Peak-to-Average Ratio(dB)	Limit(dB)	Verdict
Band5	4132	1	4.72	13	PASS
Band5	4132	2	5.25	13	PASS
Band5	4132	3	5.33	13	PASS
Band5	4132	4	5.01	13	PASS
Band5	4132	5	4.35	13	PASS
Band5	4182	1	4.52	13	PASS
Band5	4182	2	5.16	13	PASS
Band5	4182	3	5.51	13	PASS
Band5	4182	4	5.1	13	PASS
Band5	4182	5	4.38	13	PASS
Band5	4233	1	4.46	13	PASS
Band5	4233	2	5.19	13	PASS
Band5	4233	3	5.42	13	PASS
Band5	4233	4	4.96	13	PASS
Band5	4233	5	4.2	13	PASS

Test Graphs

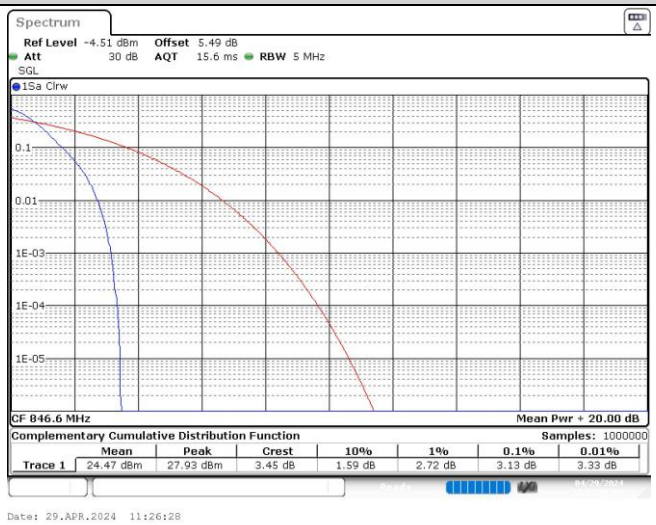
Band5-4132



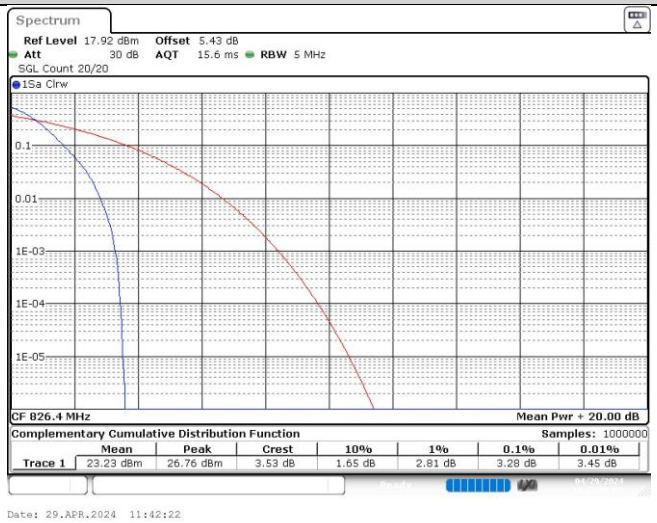
Band5-4182



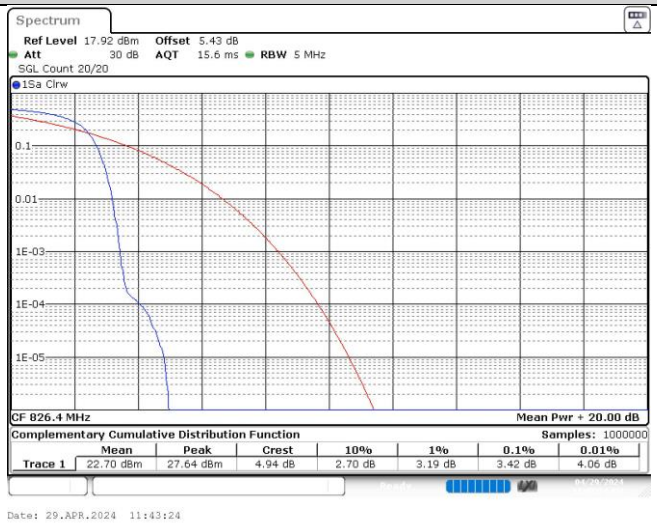
Band5-4233



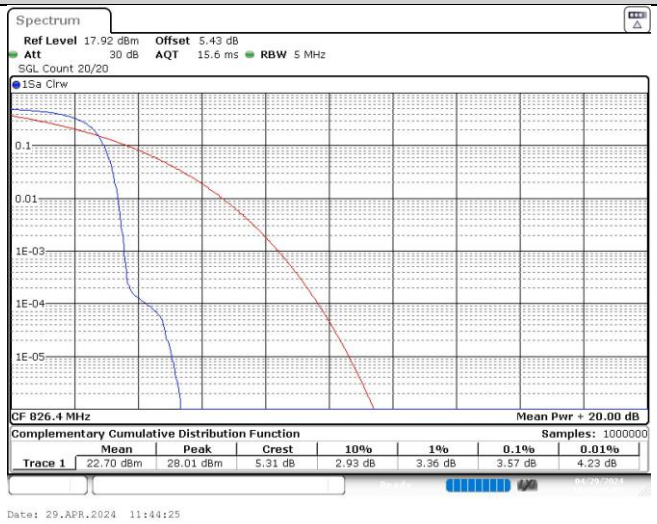
Band5-4132-1



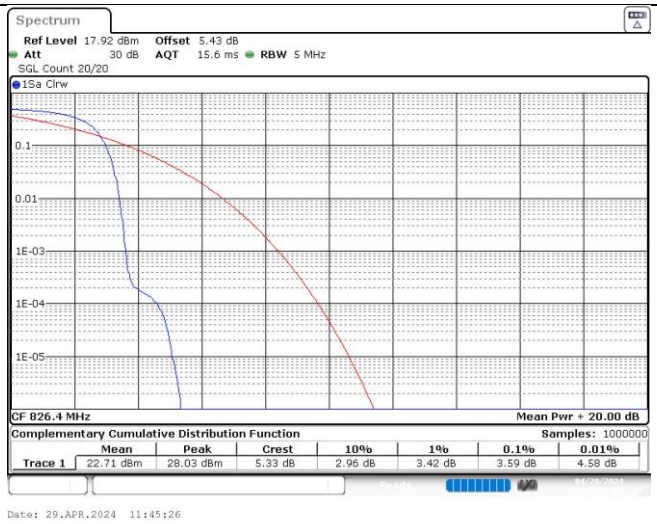
Band5-4132-2



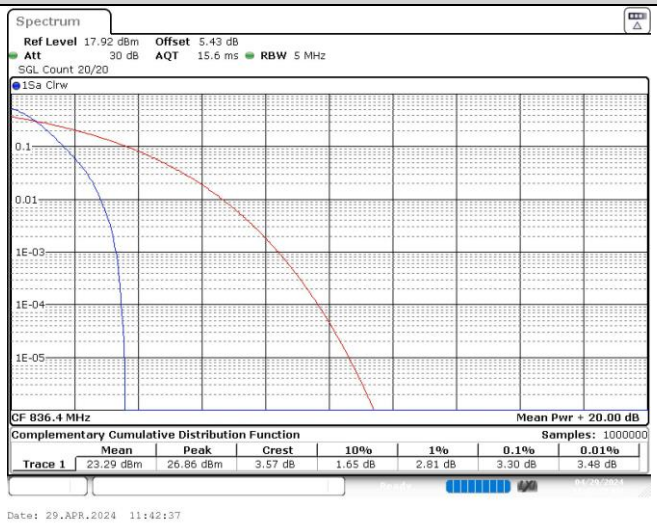
Band5-4132-3



Band5-4132-4

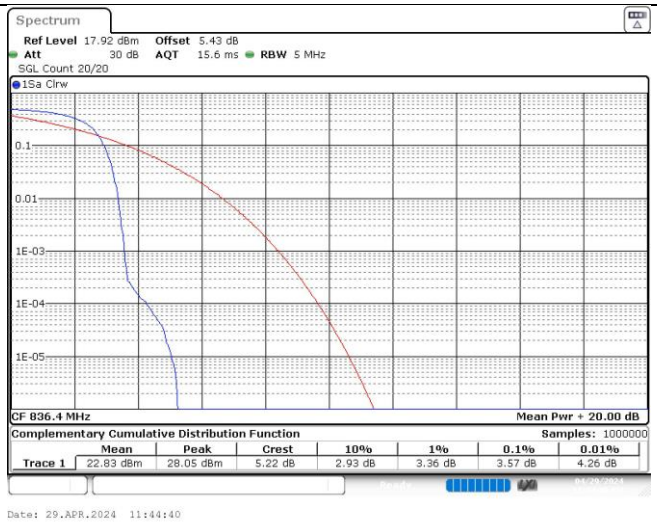


Band5-4182-1

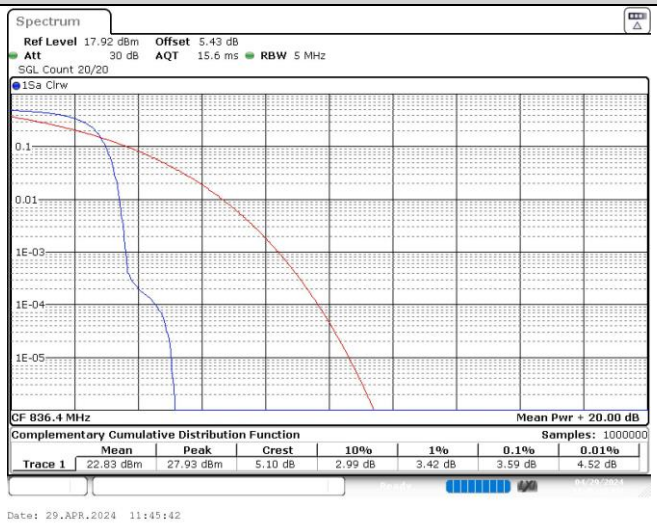


Band5-4182-2

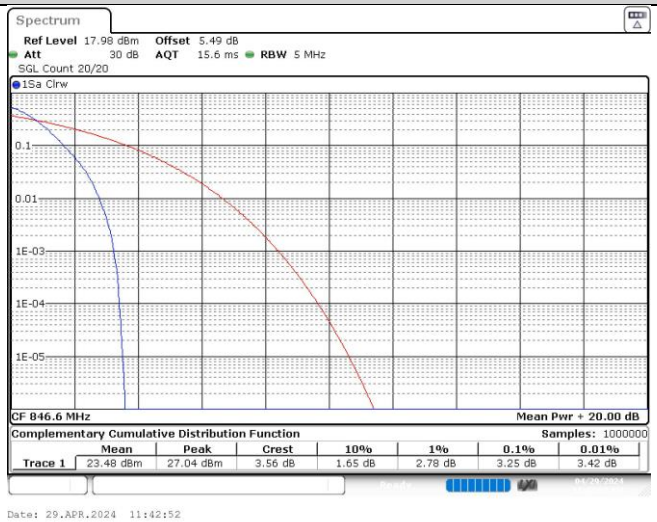
Band5-4182-3



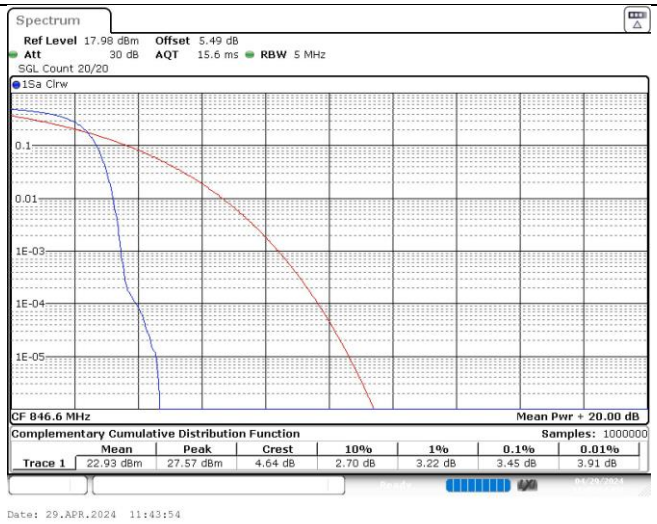
Band5-4182-4



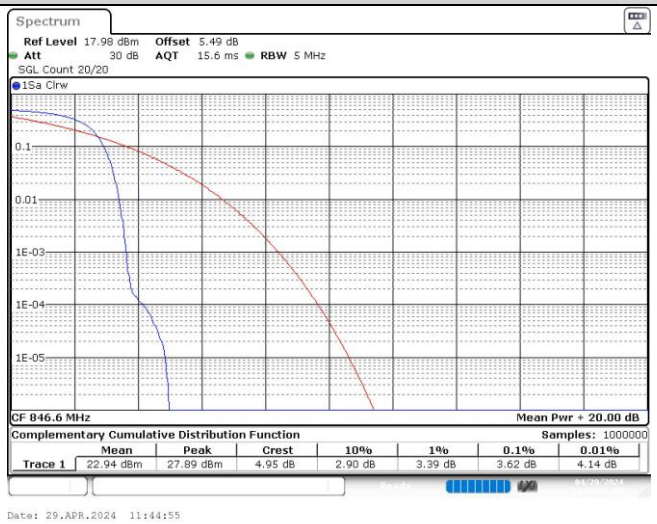
Band5-4233-1



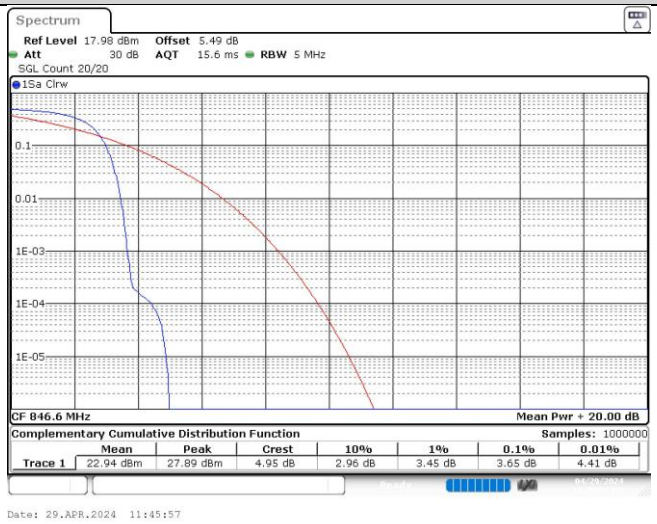
Band5-4233-2



Band5-4233-3

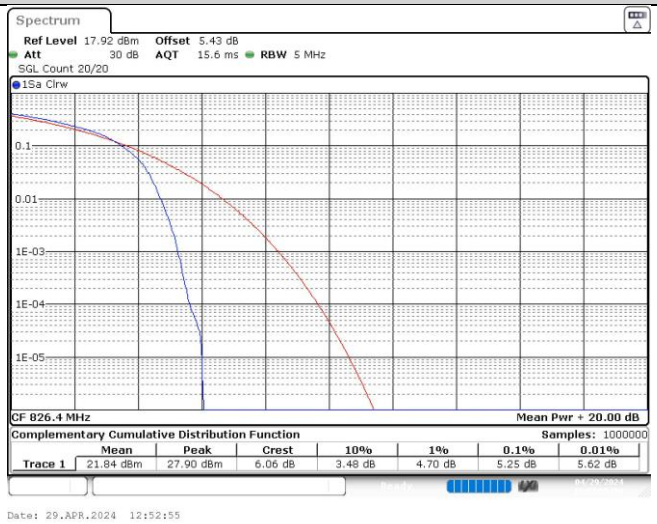


Band5-4233-4

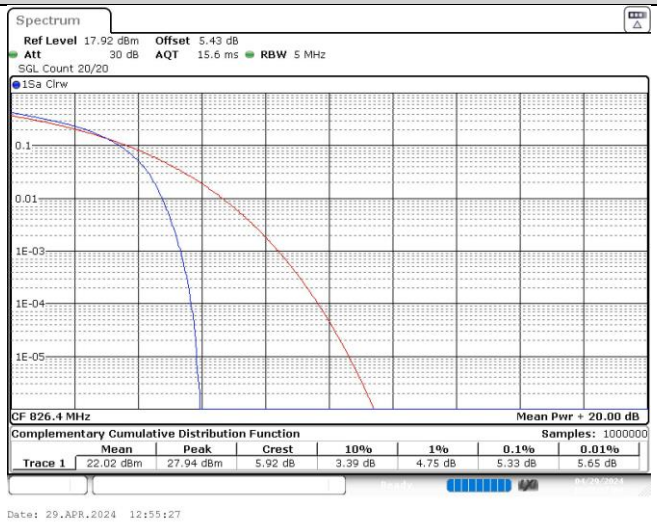


Band5-4132-1

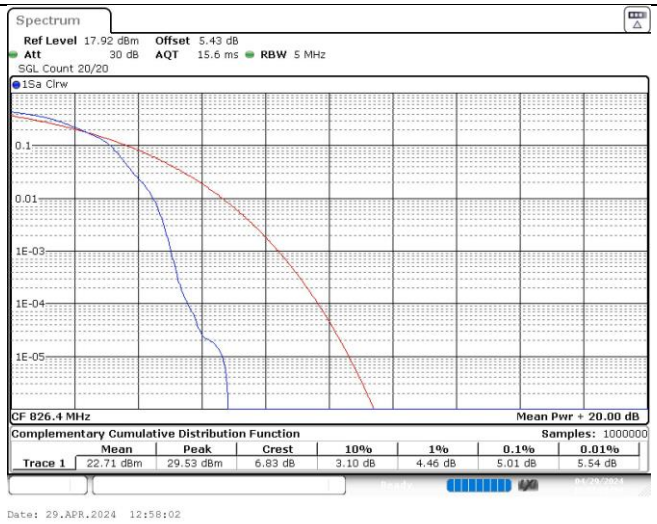
Band5-4132-2



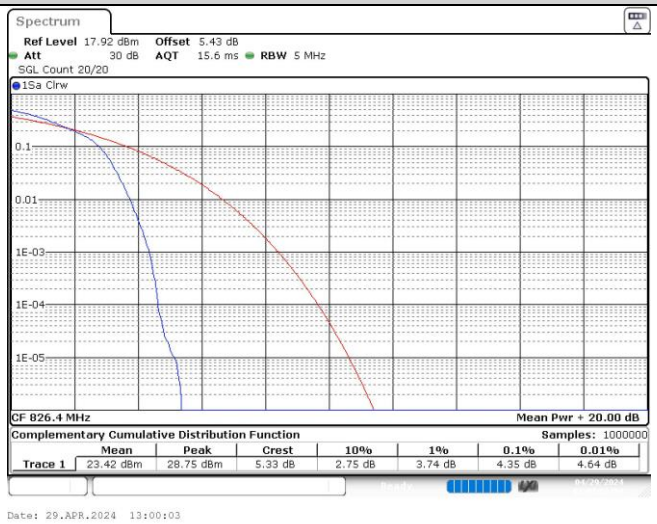
Band5-4132-3



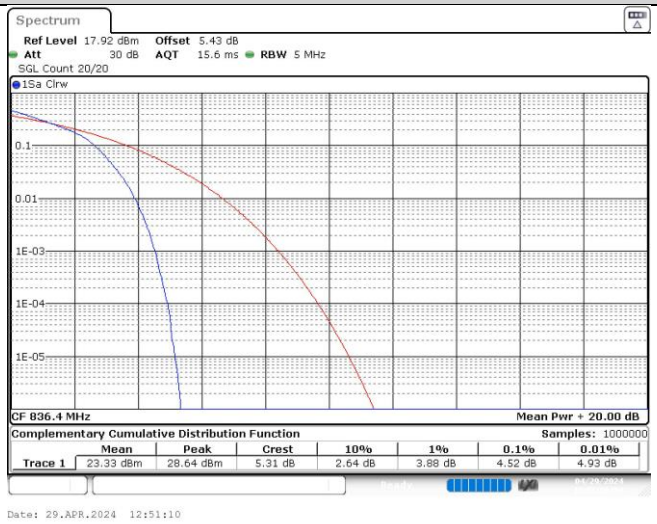
Band5-4132-4



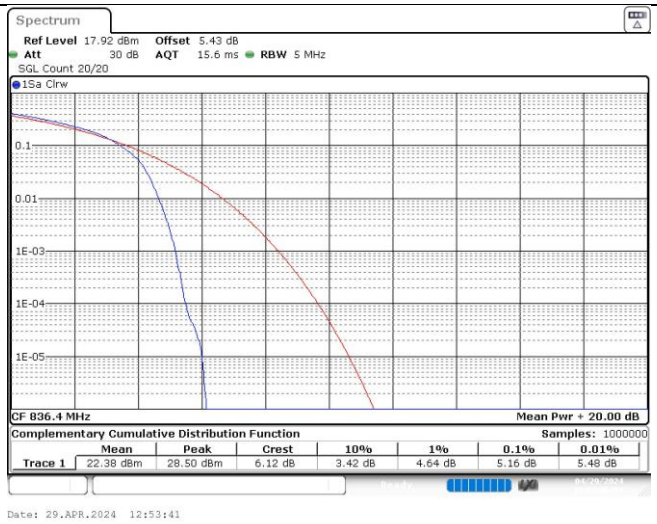
Band5-4132-5



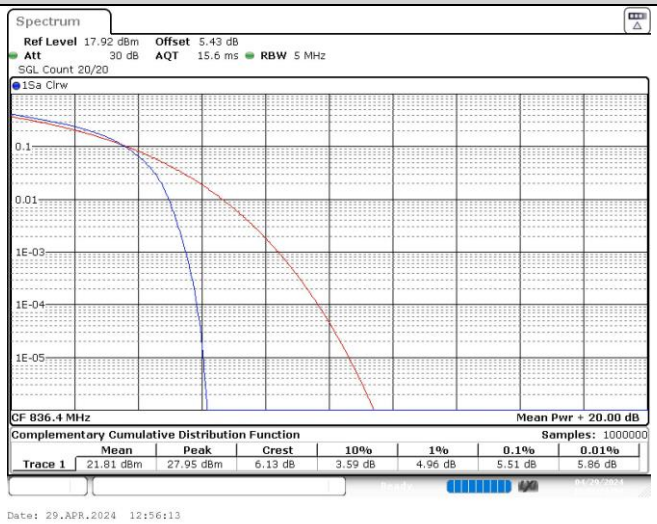
Band5-4182-1



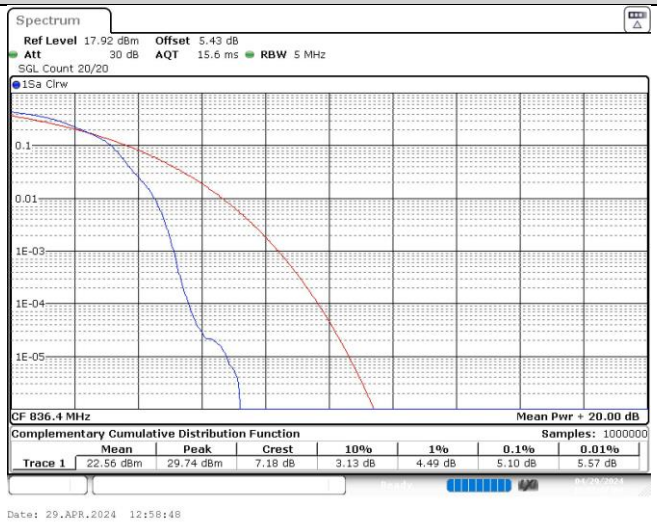
Band5-4182-2



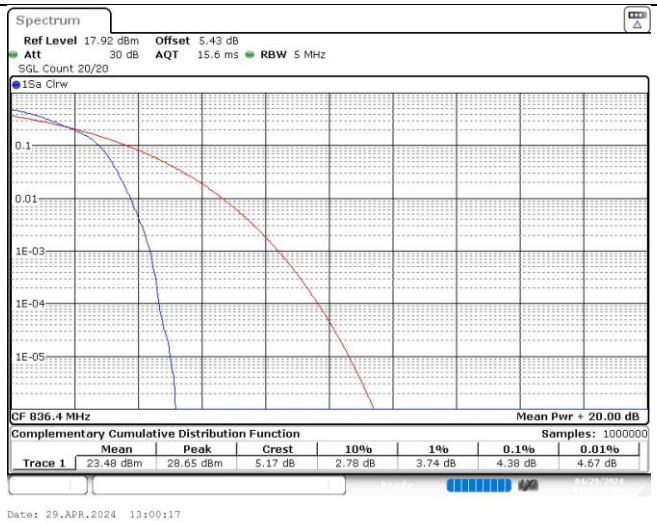
Band5-4182-3



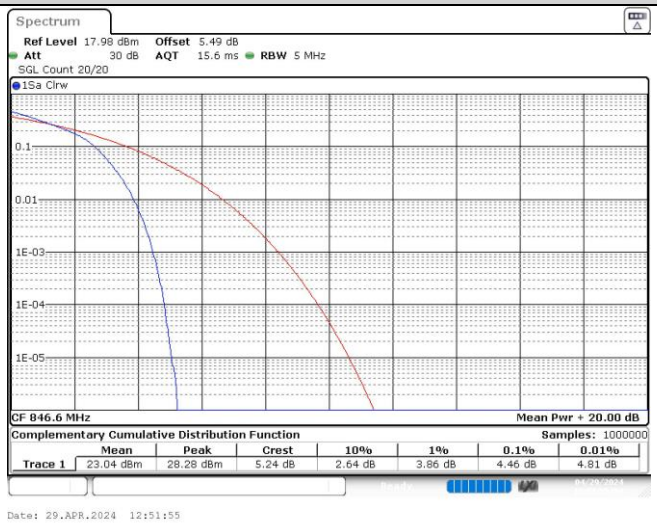
Band5-4182-4



Band5-4182-5

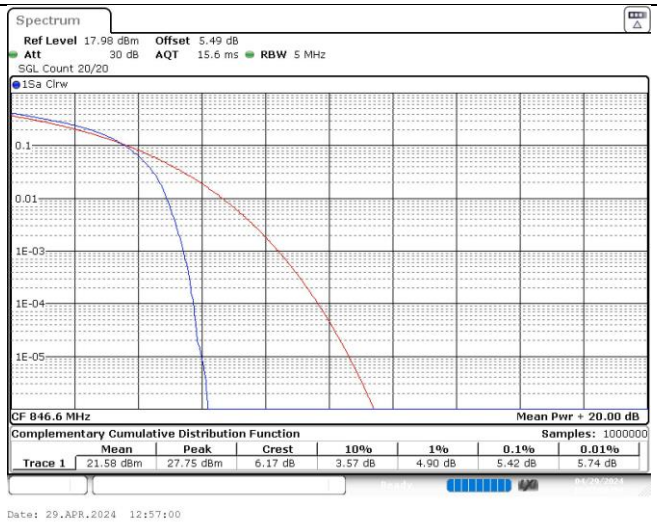


Band5-4233-1

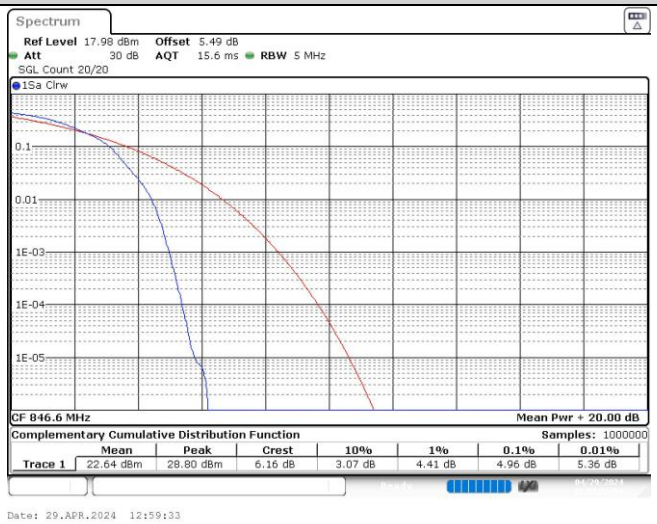


Band5-4233-2

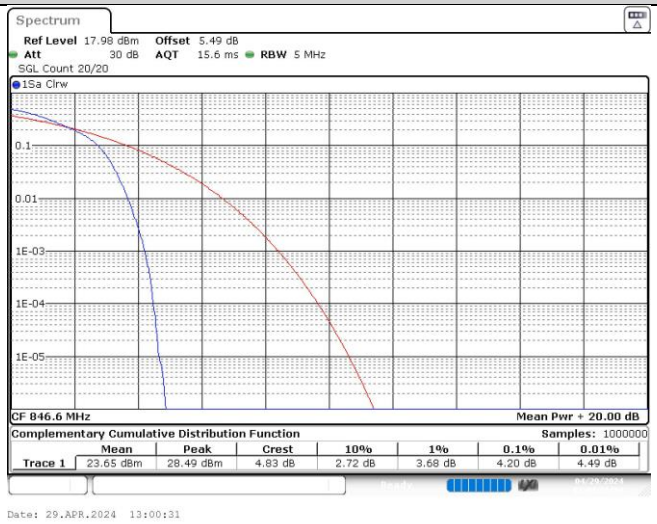
Band5-4233-3



Band5-4233-4



Band5-4233-5



APPENDIX C.3: 26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

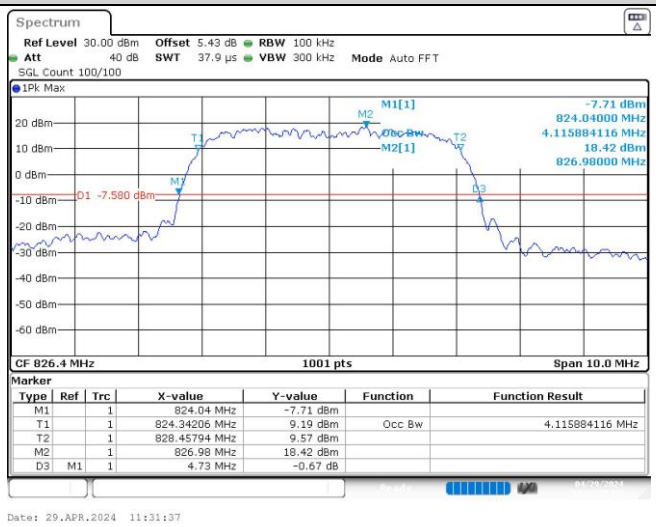
Band	Channel	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band5	4132	4.116	4.73	---	PASS
Band5	4182	4.156	4.69	---	PASS
Band5	4233	4.136	4.73	---	PASS

Band	Channel	SubTest	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band5	4132	1	4.126	4.68	---	PASS
Band5	4132	2	4.156	4.76	---	PASS
Band5	4132	3	4.116	4.72	---	PASS
Band5	4132	4	4.116	4.75	---	PASS
Band5	4182	1	4.146	4.74	---	PASS
Band5	4182	2	4.126	4.73	---	PASS
Band5	4182	3	4.116	4.72	---	PASS
Band5	4182	4	4.136	4.73	---	PASS
Band5	4233	1	4.136	4.75	---	PASS
Band5	4233	2	4.136	4.72	---	PASS
Band5	4233	3	4.156	4.72	---	PASS
Band5	4233	4	4.106	4.72	---	PASS

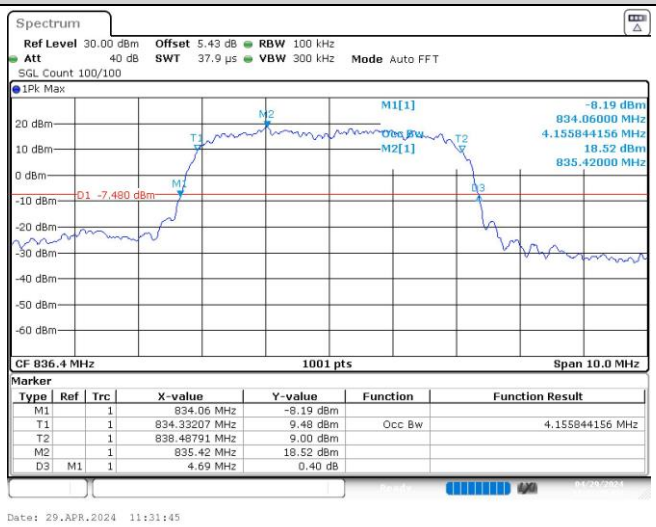
Band	Channel	SubTest	Occupied Bandwidth (kHz)	26dB Bandwidth (kHz)	Limit(kHz)	Verdict
Band5	4132	1	4.196	4.74	---	PASS
Band5	4132	2	4.136	4.72	---	PASS
Band5	4132	3	4.166	4.71	---	PASS
Band5	4132	4	4.136	4.71	---	PASS
Band5	4132	5	4.146	4.73	---	PASS
Band5	4182	1	4.156	4.74	---	PASS
Band5	4182	2	4.126	4.71	---	PASS
Band5	4182	3	4.156	4.74	---	PASS
Band5	4182	4	4.156	4.71	---	PASS
Band5	4182	5	4.156	4.71	---	PASS
Band5	4233	1	4.156	4.72	---	PASS
Band5	4233	2	4.156	4.69	---	PASS
Band5	4233	3	4.156	4.72	---	PASS
Band5	4233	4	4.146	4.73	---	PASS
Band5	4233	5	4.136	4.74	---	PASS

Test Graphs

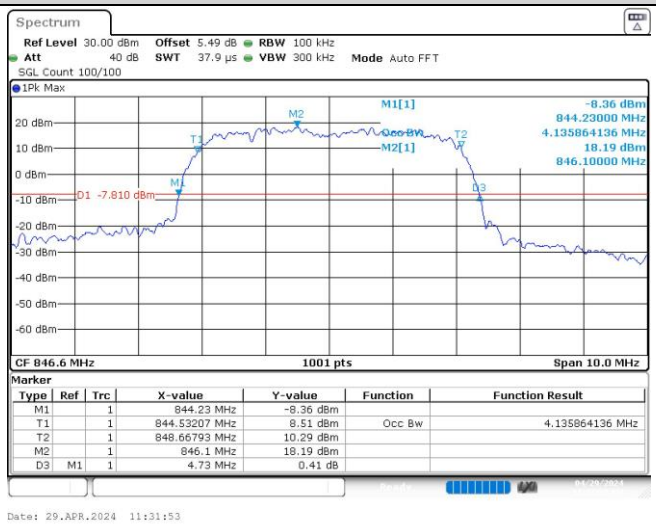
Band5-4132



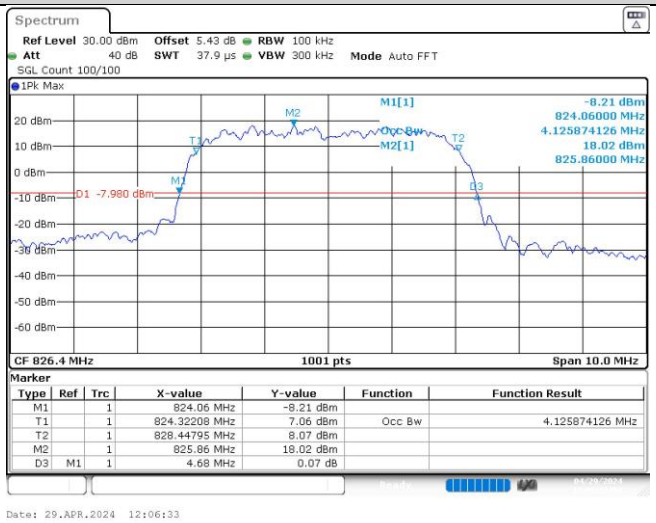
Band5-4182



Band5-4233



Band5-4132-1

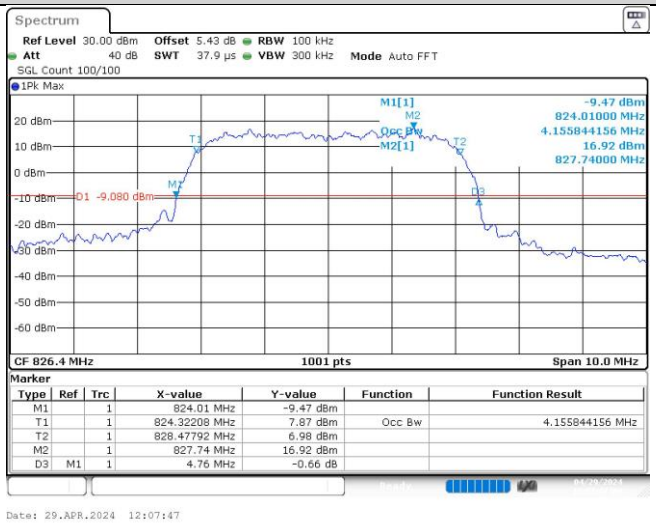


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.06 MHz	-8.21 dBm		
T1		1	824.32208 MHz	7.06 dBm	Occ Bw	4.125874126 MHz
T2		1	828.44795 MHz	8.07 dBm		
M2		1	825.86 MHz	18.02 dBm		
D3	M1	1	4.68 MHz	0.07 dB		

Date: 29.APR.2024 12:06:33

Band5-4132-2

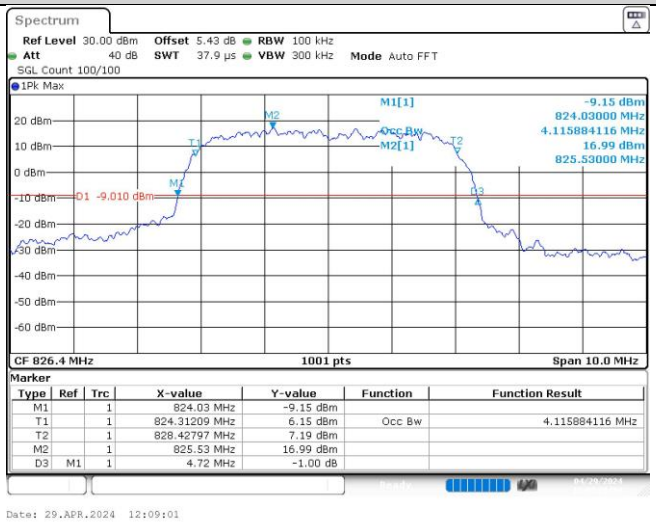


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.01 MHz	-9.47 dBm		
T1		1	824.32208 MHz	7.87 dBm	Occ Bw	4.155844156 MHz
T2		1	828.47792 MHz	6.98 dBm		
M2		1	827.74 MHz	16.92 dBm		
D3	M1	1	4.76 MHz	-0.66 dB		

Date: 29.APR.2024 12:07:47

Band5-4132-3

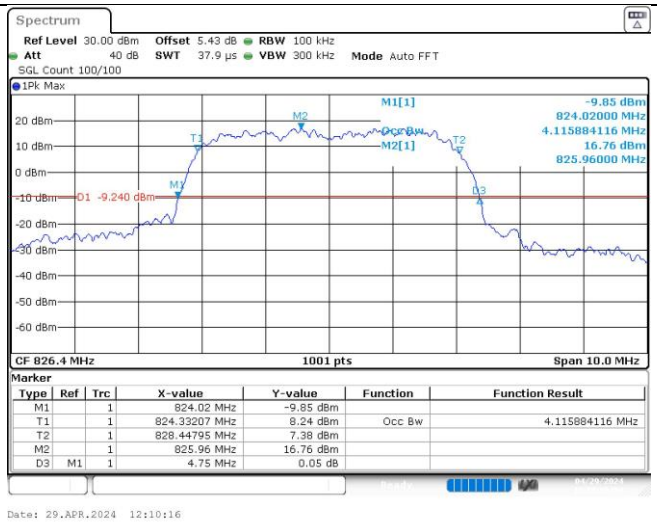


Marker

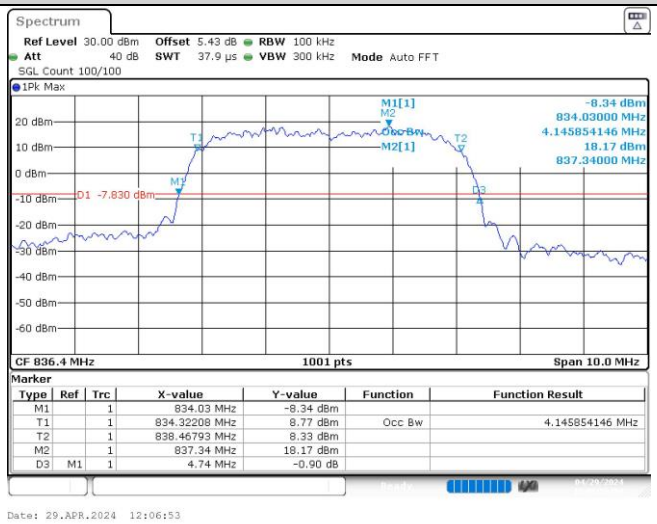
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.03 MHz	-9.15 dBm		
T1		1	824.31209 MHz	6.15 dBm	Occ Bw	4.115884116 MHz
T2		1	828.42797 MHz	7.19 dBm		
M2		1	825.53 MHz	16.99 dBm		
D3	M1	1	4.72 MHz	-1.00 dB		

Date: 29.APR.2024 12:09:01

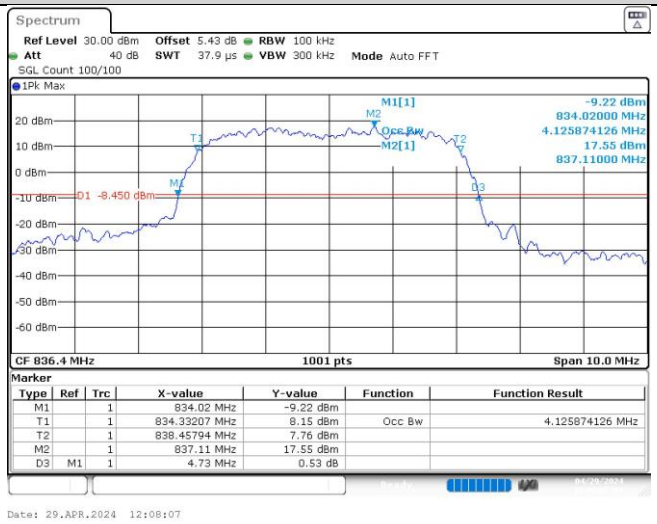
Band5-4132-4



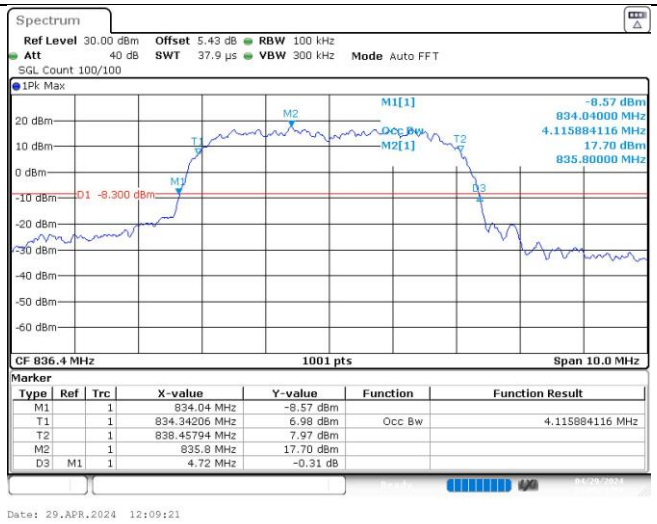
Band5-4182-1



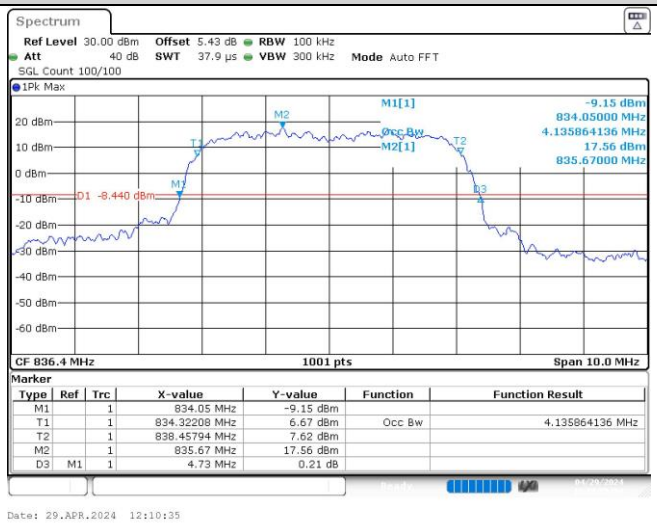
Band5-4182-2



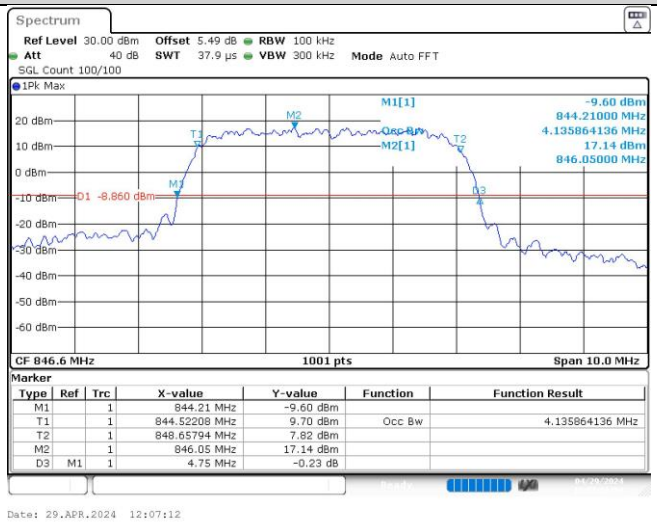
Band5-4182-3



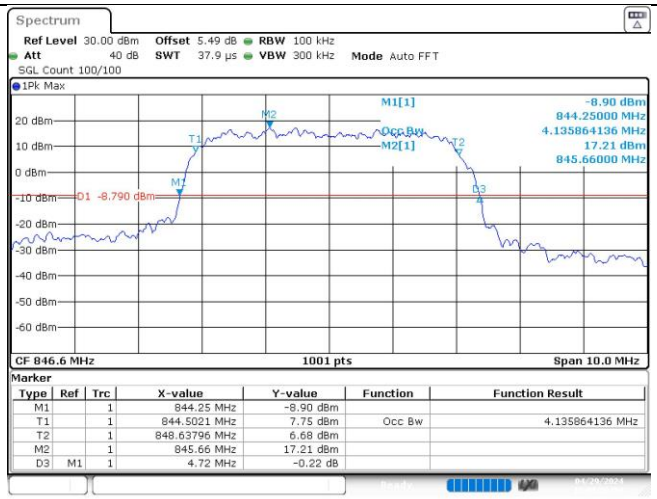
Band5-4182-4



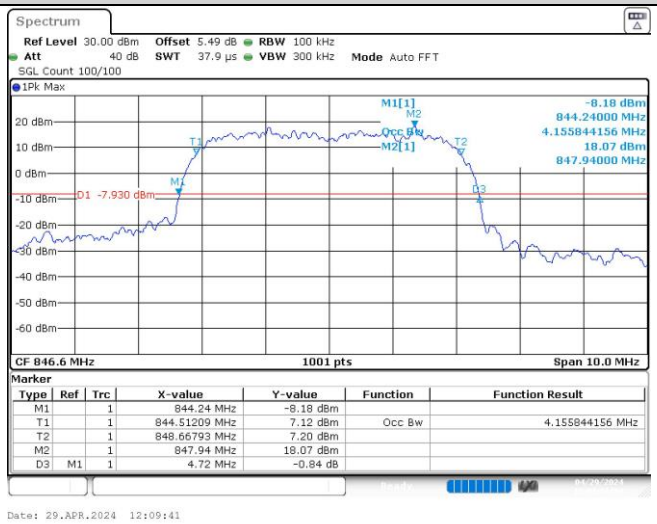
Band5-4233-1



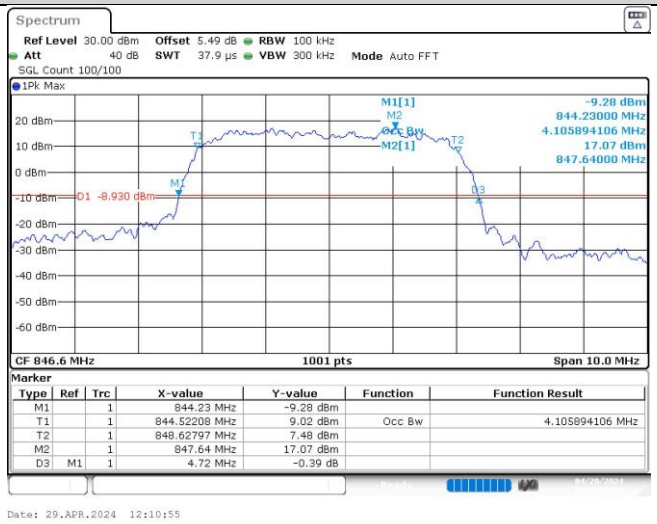
Band5-4233-2



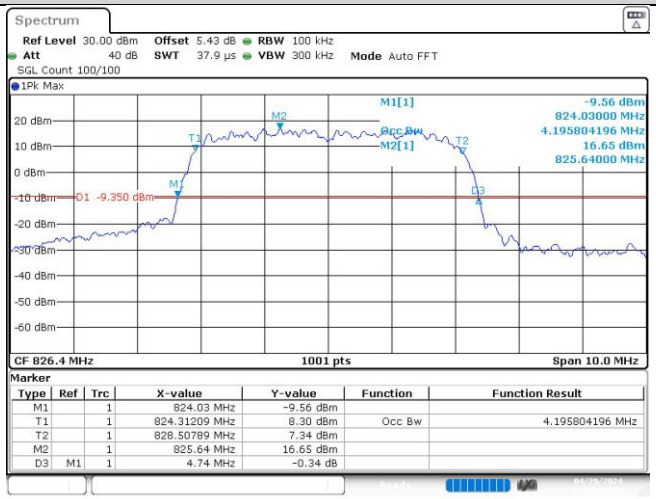
Band5-4233-3



Band5-4233-4



Band5-4132-1

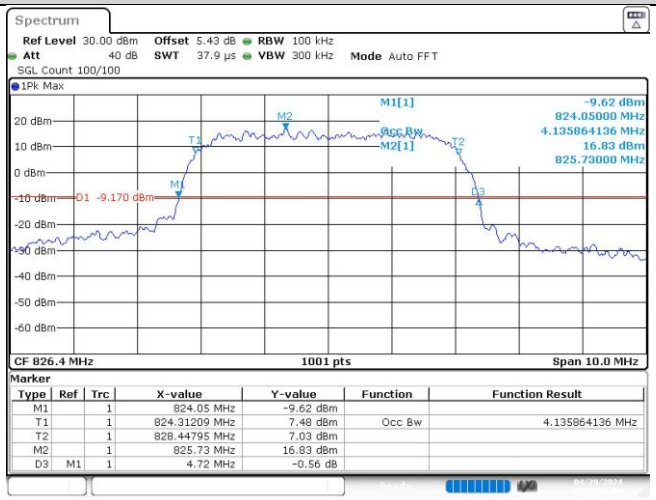


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.03 MHz	-9.56 dBm		
T1		1	824.31209 MHz	8.30 dBm	Occ Bw	4.195804196 MHz
T2		1	828.50789 MHz	7.34 dBm		
M2		1	825.64 MHz	16.65 dBm		
D3	M1	1	4.74 MHz	-0.34 dB		

Date: 29.APR.2024 13:02:17

Band5-4132-2

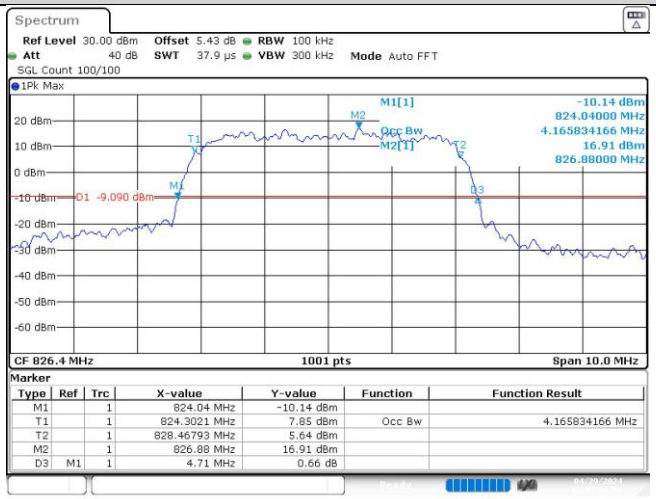


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.05 MHz	-9.62 dBm		
T1		1	824.31209 MHz	7.48 dBm	Occ Bw	4.135864136 MHz
T2		1	828.44795 MHz	7.03 dBm		
M2		1	825.73 MHz	16.83 dBm		
D3	M1	1	4.72 MHz	-0.56 dB		

Date: 29.APR.2024 13:04:59

Band5-4132-3

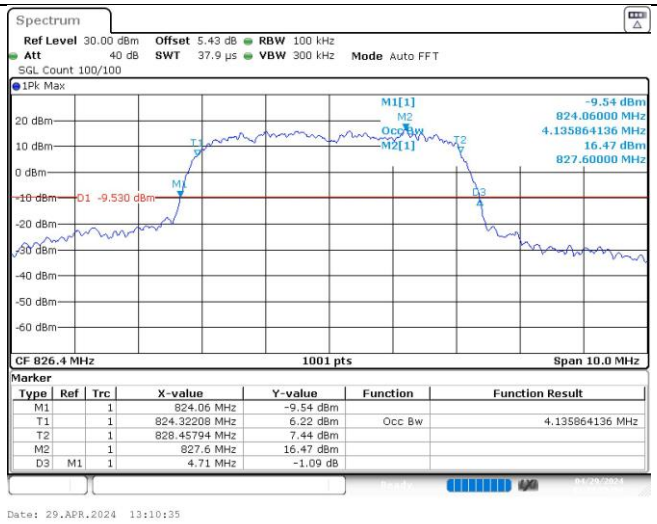


Marker

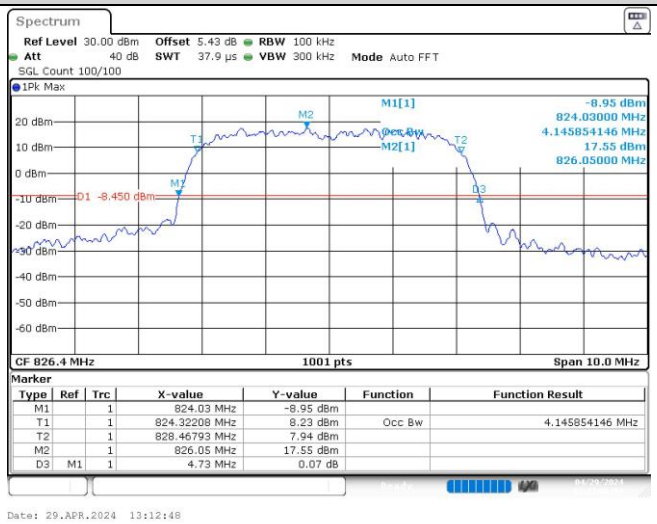
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	824.04 MHz	-10.14 dBm		
T1		1	824.3021 MHz	7.85 dBm	Occ Bw	4.165834166 MHz
T2		1	828.46793 MHz	5.64 dBm		
M2		1	826.88 MHz	16.91 dBm		
D3	M1	1	4.71 MHz	0.66 dB		

Date: 29.APR.2024 13:07:43

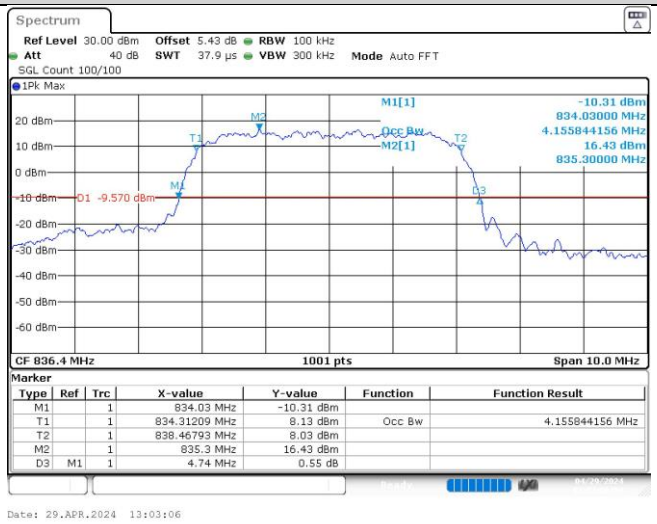
Band5-4132-4



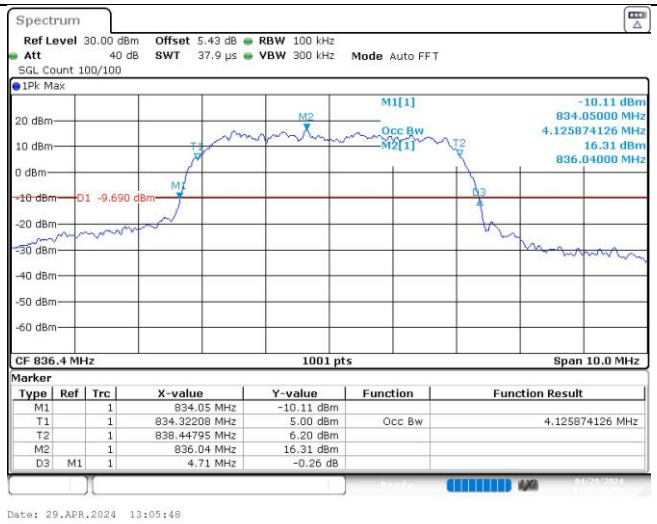
Band5-4132-5



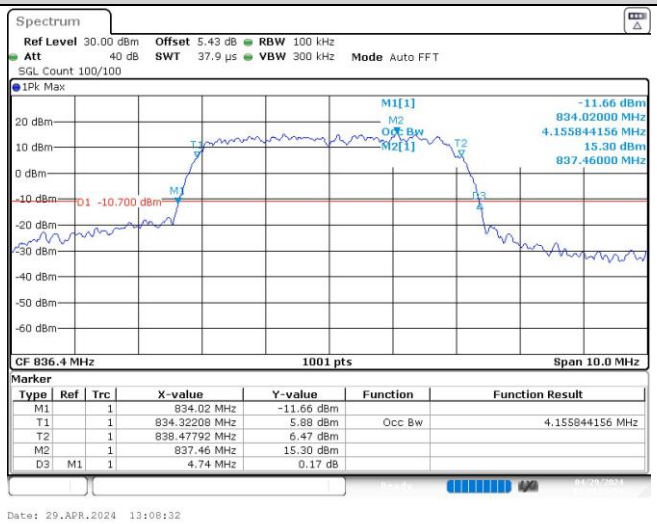
Band5-4182-1



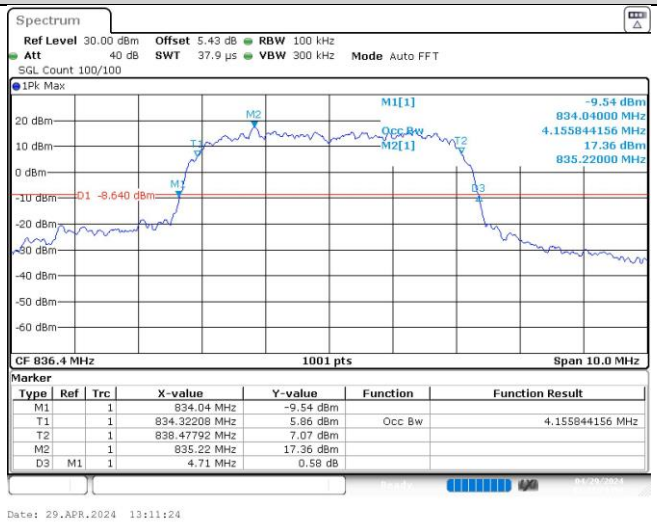
Band5-4182-2



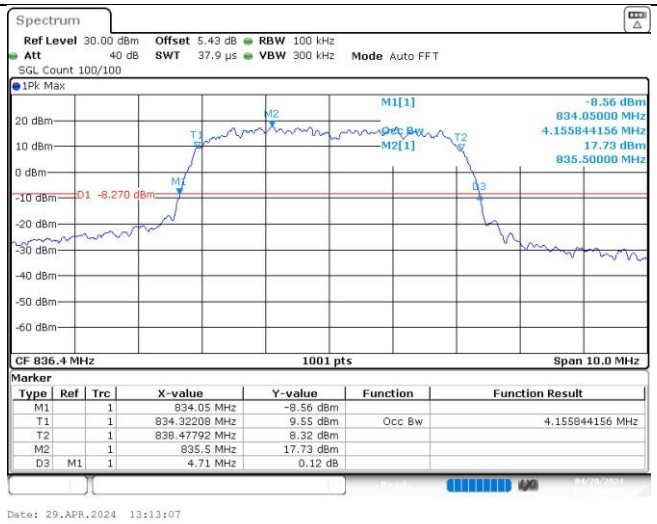
Band5-4182-3



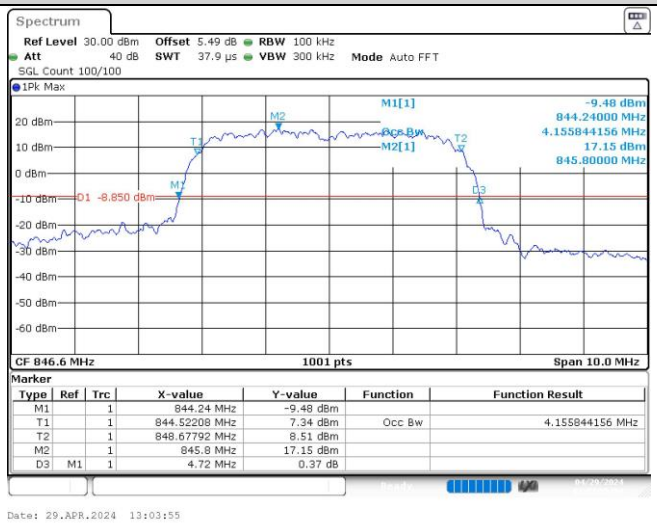
Band5-4182-4



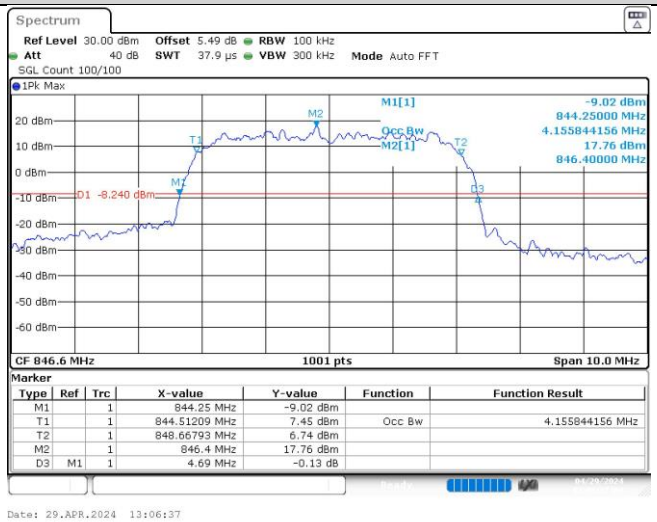
Band5-4182-5



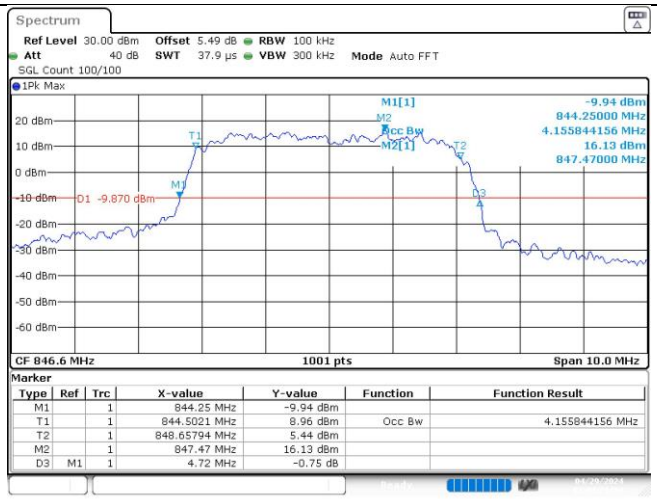
Band5-4233-1



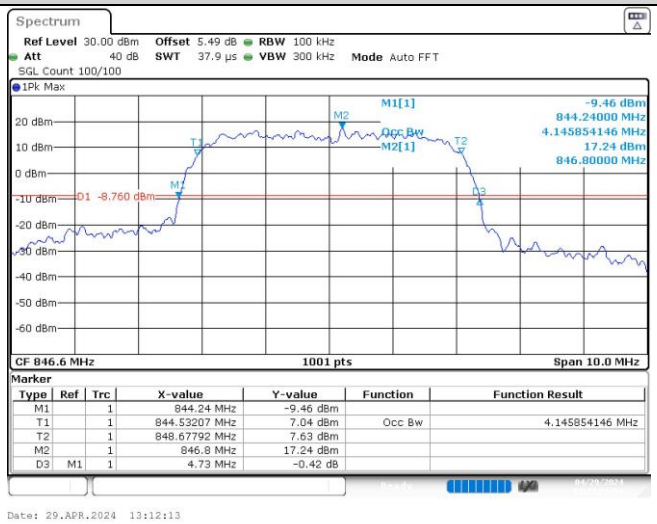
Band5-4233-2



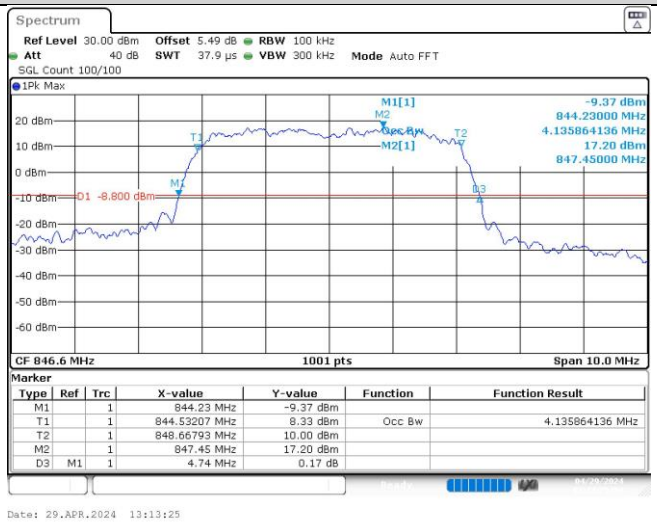
Band5-4233-3



Band5-4233-4



Band5-4233-5



APPENDIX C.4: BAND EDGE

Test Result

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	824.00	-20.86	-13	PASS
Band5	4233	849.00	-16.82	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	1	823.84	-19.48	-13	PASS
Band5	4132	2	824.00	-21.08	-13	PASS
Band5	4132	3	824.00	-18.75	-13	PASS
Band5	4132	4	824.00	-19.35	-13	PASS
Band5	4233	1	849.00	-18.78	-13	PASS
Band5	4233	2	849.00	-21.06	-13	PASS
Band5	4233	3	849.00	-23.21	-13	PASS
Band5	4233	4	849.00	-21.27	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	1	824.00	-19.58	-13	PASS
Band5	4132	2	823.84	-19.31	-13	PASS
Band5	4132	3	824.00	-20.12	-13	PASS
Band5	4132	4	823.85	-20.05	-13	PASS
Band5	4132	5	824.00	-20.24	-13	PASS
Band5	4233	1	849.00	-20.00	-13	PASS
Band5	4233	2	849.00	-21.61	-13	PASS
Band5	4233	3	849.13	-24.26	-13	PASS
Band5	4233	4	849.00	-20.36	-13	PASS
Band5	4233	5	849.00	-20.21	-13	PASS