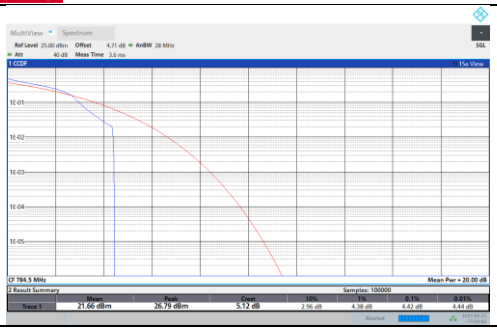
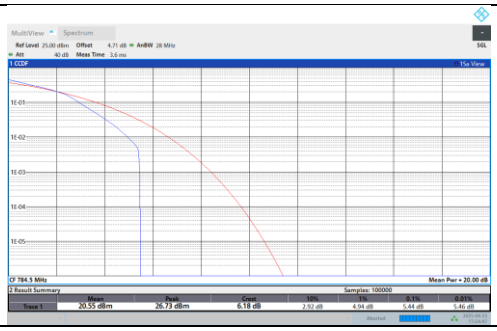
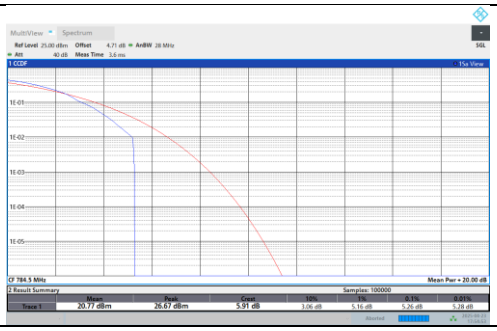


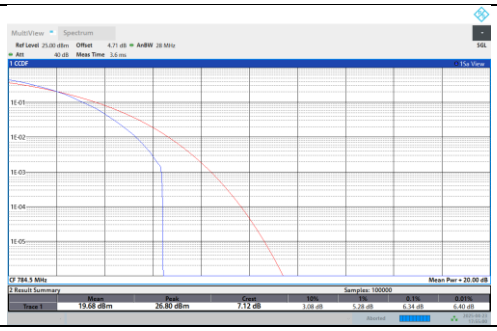
Band 13-5M-HIGH-1 RB low



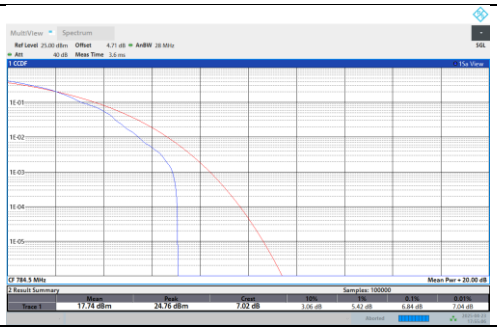
Band 13-5M-HIGH-100% RB



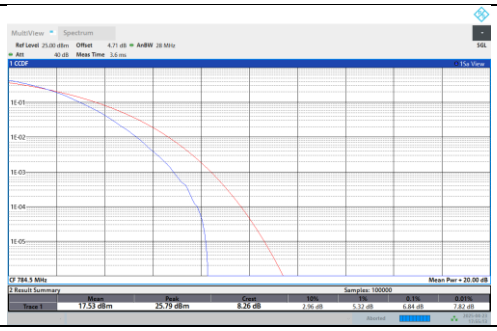
Band 13-5M-HIGH-1 RB low



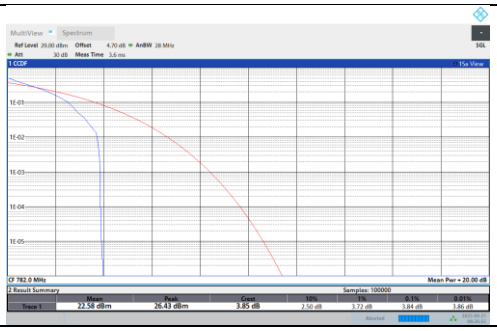
Band 13-5M-HIGH-100% RB



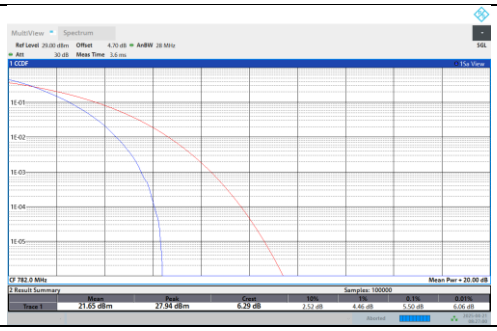
Band 13-10M-LOW-1 RB low



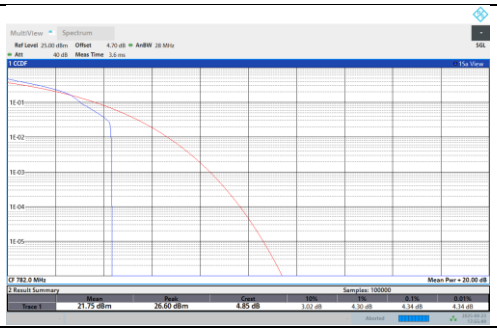
Band 13-10M-LOW-100% RB



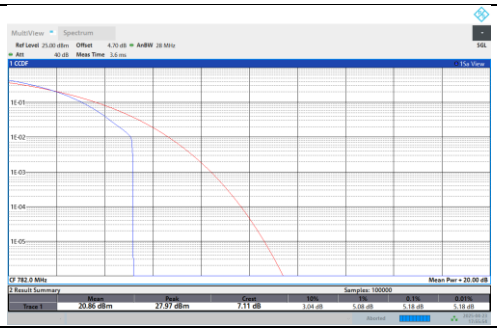
Band 13-10M-LOW-1 RB low



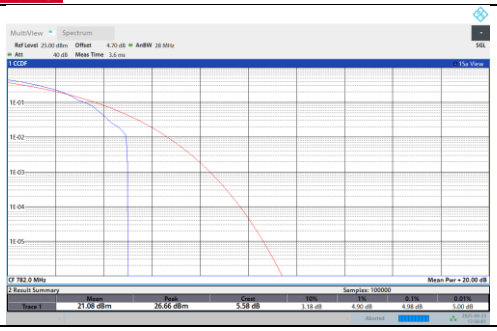
Band 13-10M-LOW-100% RB



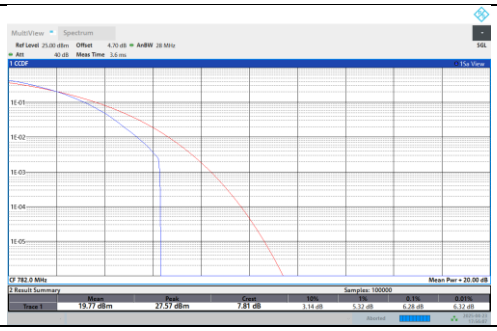
Band 13-10M-LOW-1 RB low



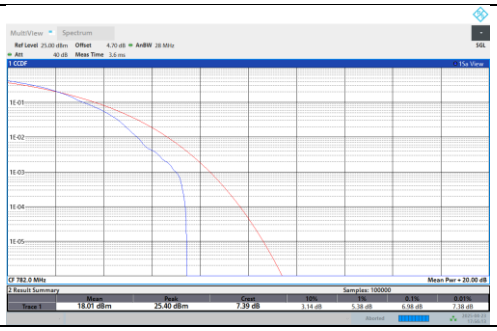
Band 13-10M-LOW-100% RB



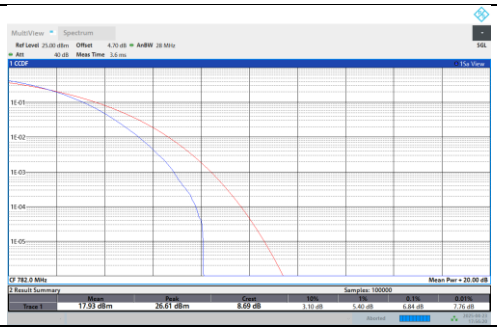
Band 13-10M-LOW-1 RB low



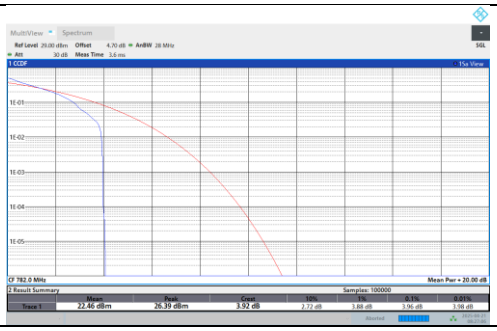
Band 13-10M-LOW-100% RB



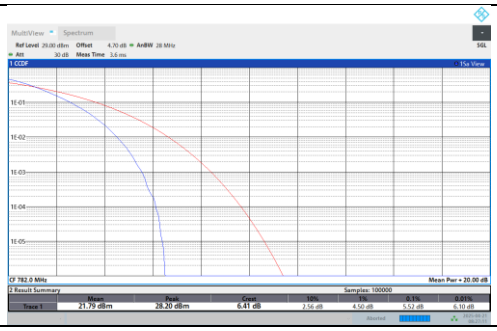
Band 13-10M-MID-1 RB low



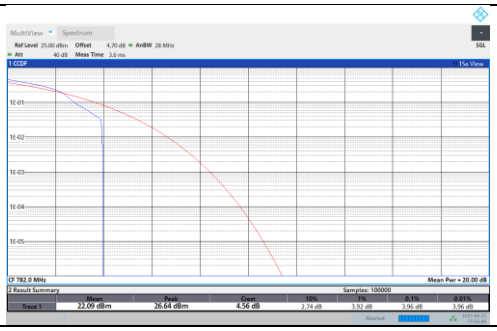
Band 13-10M-MID-100% RB



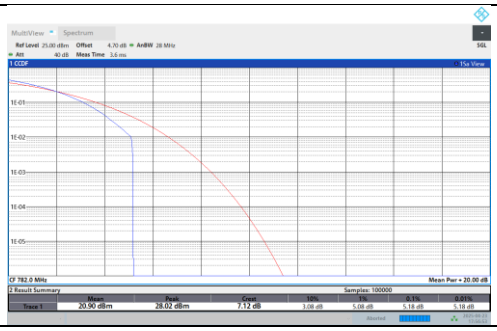
Band 13-10M-MID-1 RB low



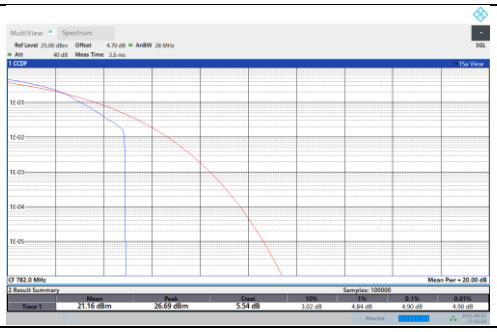
Band 13-10M-MID-100% RB



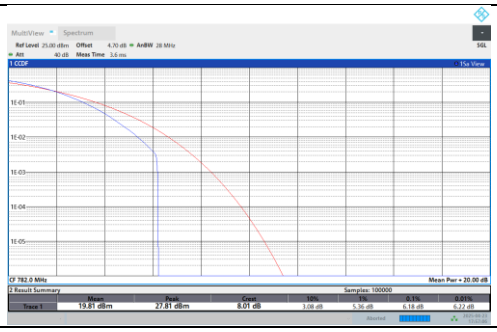
Band 13-10M-MID-1 RB low



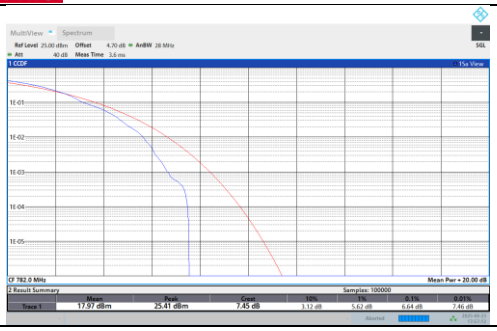
Band 13-10M-MID-100% RB



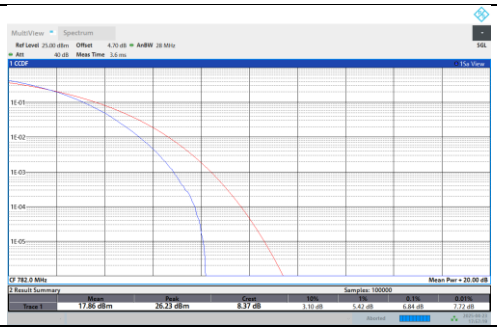
Band 13-10M-MID-1 RB low



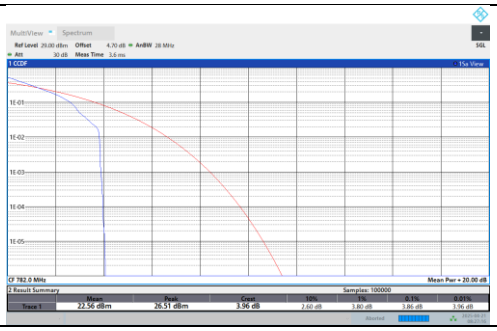
Band 13-10M-MID-100% RB



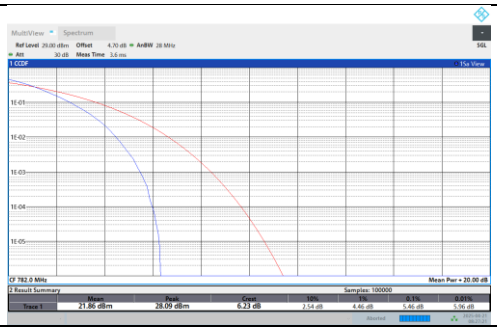
Band 13-10M-HIGH-1 RB low



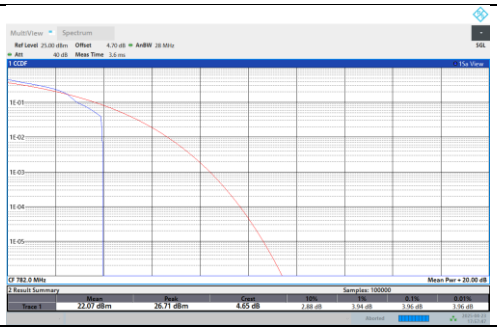
Band 13-10M-HIGH-100% RB



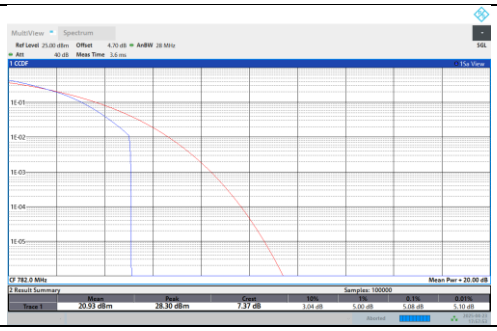
Band 13-10M-HIGH-1 RB low



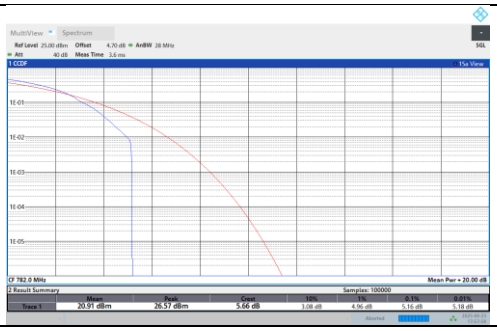
Band 13-10M-HIGH-100% RB



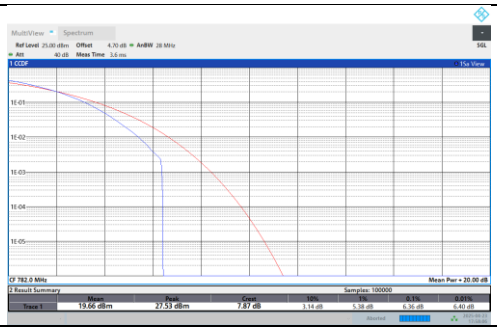
Band 13-10M-HIGH-1 RB low



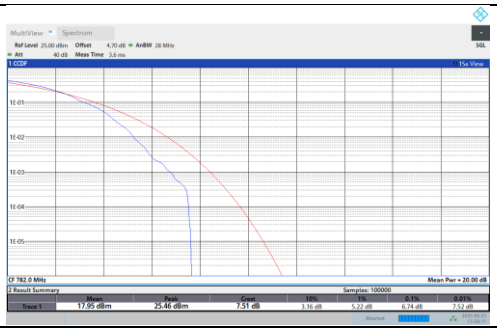
Band 13-10M-HIGH-100% RB

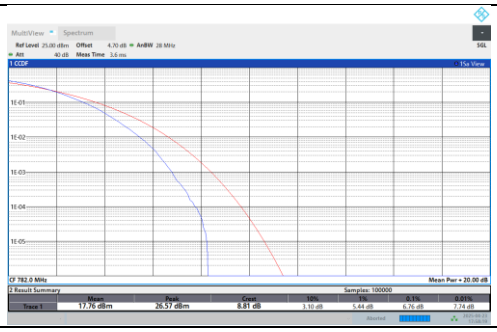


Band 13-10M-HIGH-1 RB low



Band 13-10M-HIGH-100% RB





26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Occupied Bandwidth

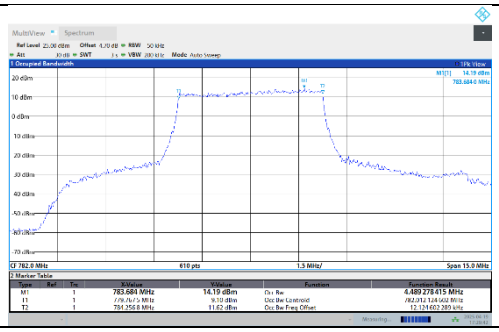
Test Result

Bandwidth	Modulation	Frequency (MHz)	RB Configuration	Occupied Bandwidth(MHz)	Verdict
5MHz	QPSK	782	100% RB	4.489	PASS
5MHz	16QAM	782	100% RB	4.497	PASS
5MHz	64QAM	782	100% RB	4.491	PASS
5MHz	256QAM	782	100% RB	4.484	PASS
10MHz	QPSK	782	100% RB	8.933	PASS
10MHz	16QAM	782	100% RB	8.945	PASS
10MHz	64QAM	782	100% RB	8.949	PASS
10MHz	256QAM	782	100% RB	8.961	PASS

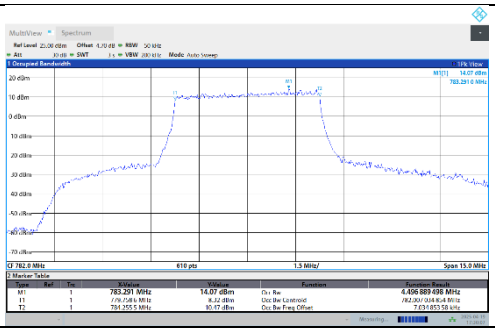
Occupied Bandwidth

Test Graphs

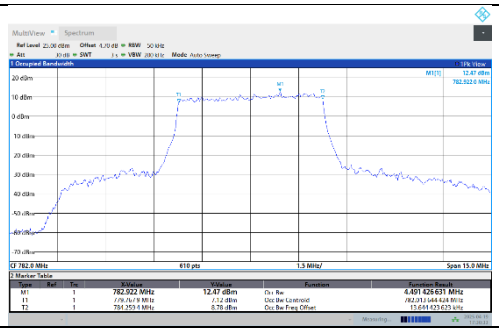
Band 13-5M-MID-100% RB



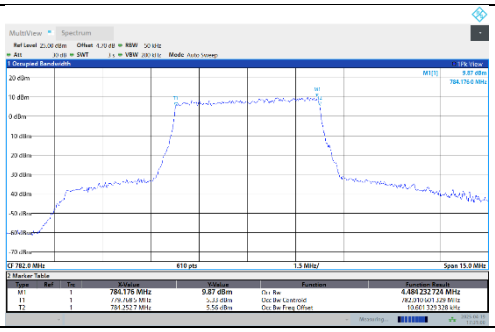
Band 13-5M-MID-100% RB



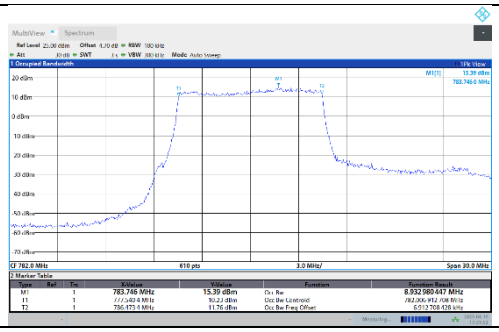
Band 13-5M-MID-100% RB



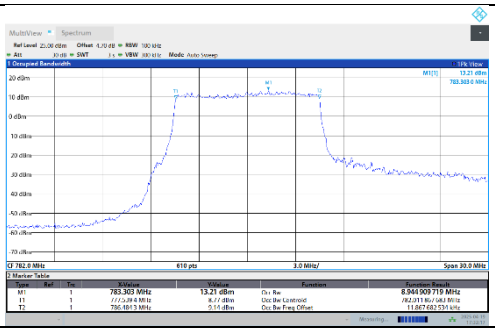
Band 13-5M-MID-100% RB



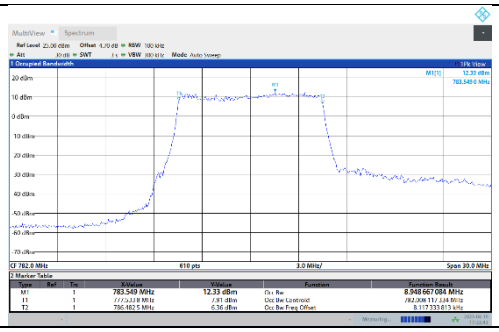
Band 13-10M-MID-100% RB



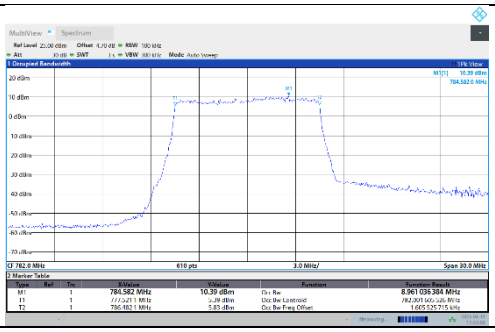
Band 13-10M-MID-100% RB



Band 13-10M-MID-100% RB



Band 13-10M-MID-100% RB



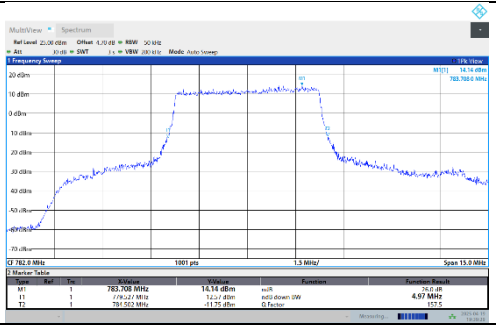
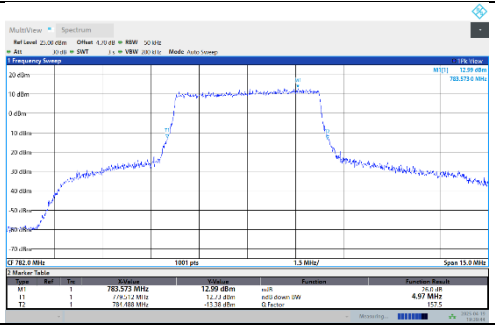
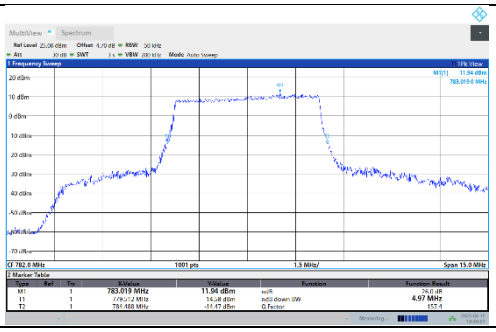
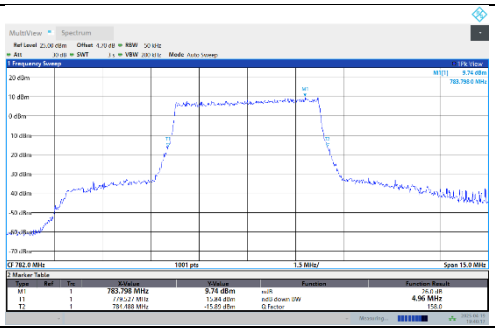
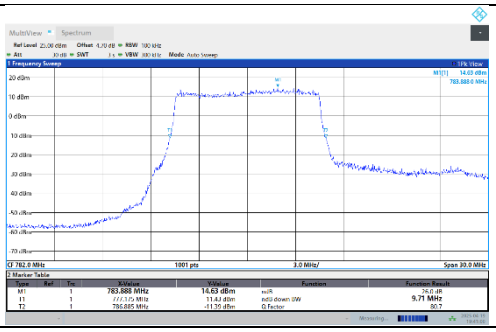
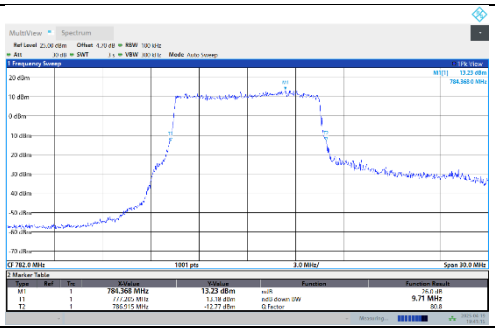
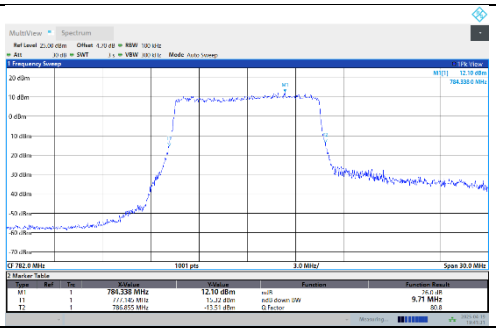
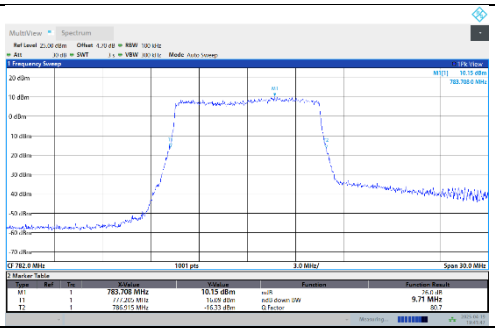
26dB Bandwidth

Test Result

Bandwidth	Modulation	Frequency (MHz)	RB Configuration	26dB Bandwidth(MHz)	Verdict
5MHz	QPSK	782	100% RB	4.975	PASS
5MHz	16QAM	782	100% RB	4.975	PASS
5MHz	64QAM	782	100% RB	4.975	PASS
5MHz	256QAM	782	100% RB	4.960	PASS
10MHz	QPSK	782	100% RB	9.710	PASS
10MHz	16QAM	782	100% RB	9.710	PASS
10MHz	64QAM	782	100% RB	9.710	PASS
10MHz	256QAM	782	100% RB	9.710	PASS

26dB Bandwidth

Test Graphs

Band 13-5M-MID-100% RB	Band 13-5M-MID-100% RB
	
Band 13-5M-MID-100% RB	**Band 13-5M-MID-100% RB**
	
Band 13-10M-MID-100% RB	**Band 13-10M-MID-100% RB**
	
Band 13-10M-MID-100% RB	**Band 13-10M-MID-100% RB**
	

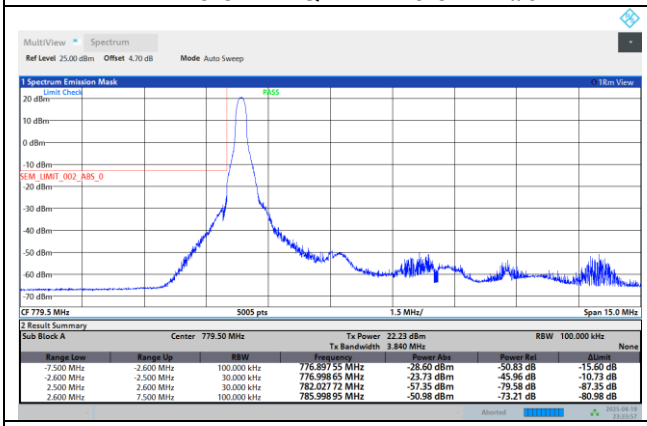
BAND EDGE

Test Result

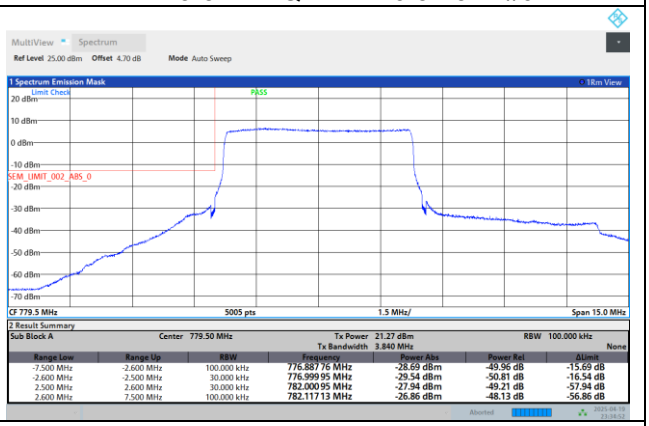
Band	Bandwidth	Modulation	Frequency (MHz)	RB Configuration	Result(dBm)	Verdict
Band13	5MHz	QPSK	779.5	1RB#0	See Graph	PASS
Band13	5MHz	QPSK	779.5	25RB#0	See Graph	PASS
Band13	5MHz	QPSK	784.5	1RB#24	See Graph	PASS
Band13	5MHz	QPSK	784.5	25RB#0	See Graph	PASS
Band13	5MHz	16QAM	779.5	1RB#0	See Graph	PASS
Band13	5MHz	16QAM	779.5	25RB#0	See Graph	PASS
Band13	5MHz	16QAM	784.5	1RB#24	See Graph	PASS
Band13	5MHz	16QAM	784.5	25RB#0	See Graph	PASS
Band13	5MHz	64QAM	779.5	1RB#0	See Graph	PASS
Band13	5MHz	64QAM	779.5	25RB#0	See Graph	PASS
Band13	5MHz	64QAM	784.5	1RB#24	See Graph	PASS
Band13	5MHz	64QAM	784.5	25RB#0	See Graph	PASS
Band13	5MHz	256QAM	779.5	1RB#0	See Graph	PASS
Band13	5MHz	256QAM	779.5	25RB#0	See Graph	PASS
Band13	5MHz	256QAM	784.5	1RB#24	See Graph	PASS
Band13	5MHz	256QAM	784.5	25RB#0	See Graph	PASS
Band13	10MHz	QPSK	782	1RB#0	See Graph	PASS
Band13	10MHz	QPSK	782	1RB#49	See Graph	PASS
Band13	10MHz	QPSK	782	50RB#0	See Graph	PASS
Band13	10MHz	16QAM	782	1RB#0	See Graph	PASS
Band13	10MHz	16QAM	782	1RB#49	See Graph	PASS
Band13	10MHz	16QAM	782	50RB#0	See Graph	PASS
Band13	10MHz	64QAM	782	1RB#0	See Graph	PASS
Band13	10MHz	64QAM	782	1RB#49	See Graph	PASS
Band13	10MHz	64QAM	782	50RB#0	See Graph	PASS
Band13	10MHz	256QAM	782	1RB#0	See Graph	PASS
Band13	10MHz	256QAM	782	1RB#49	See Graph	PASS
Band13	10MHz	256QAM	782	50RB#0	See Graph	PASS

Test Graphs

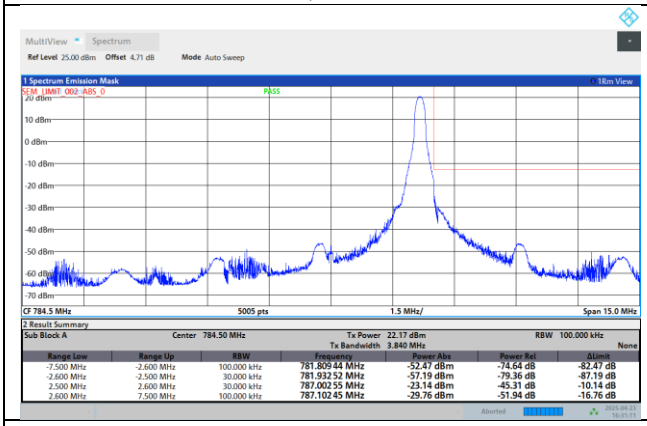
Band13-5MHz-QPSK-779.5-1RB#0



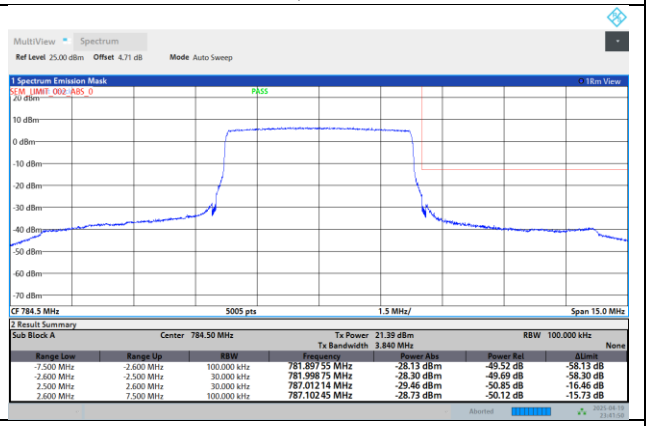
Band13-5MHz-QPSK-779.5-25RB#0



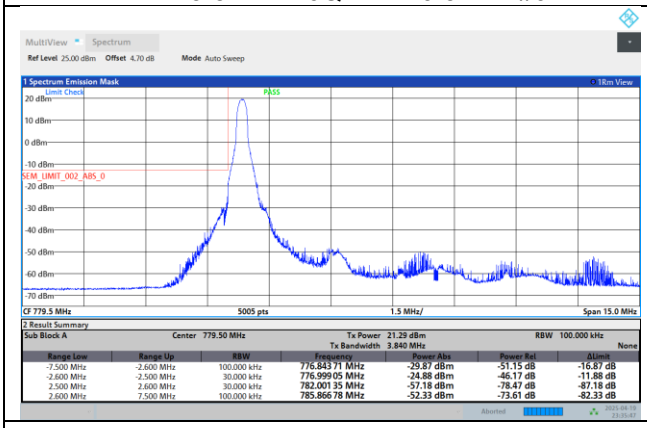
Band13-5MHz-QPSK-784.5-1RB#24



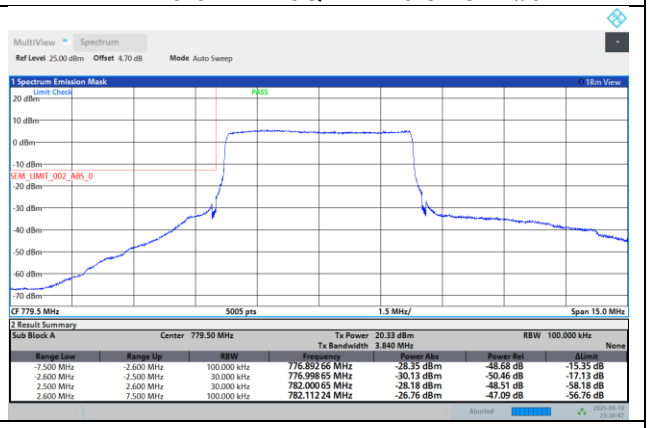
Band13-5MHz-QPSK-784.5-25RB#0



Band13-5MHz-16QAM-779.5-1RB#0

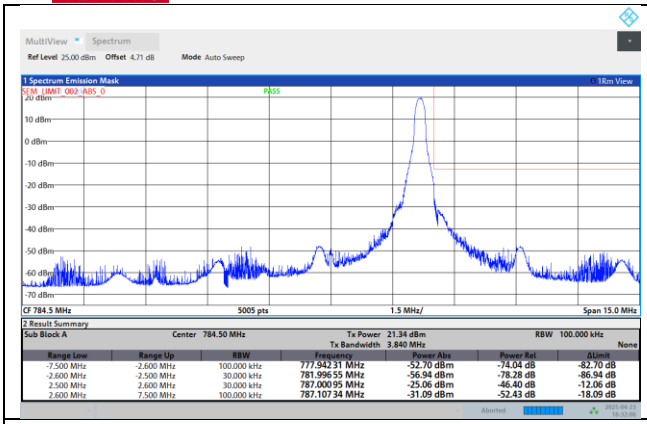


Band13-5MHz-16QAM-779.5-25RB#0

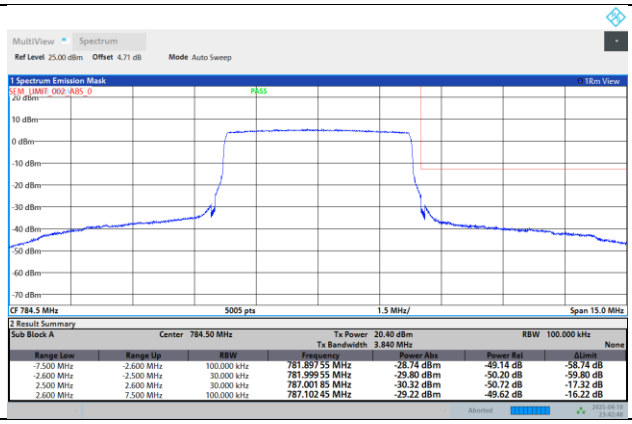


Band13-5MHz-16QAM-784.5-1RB#24

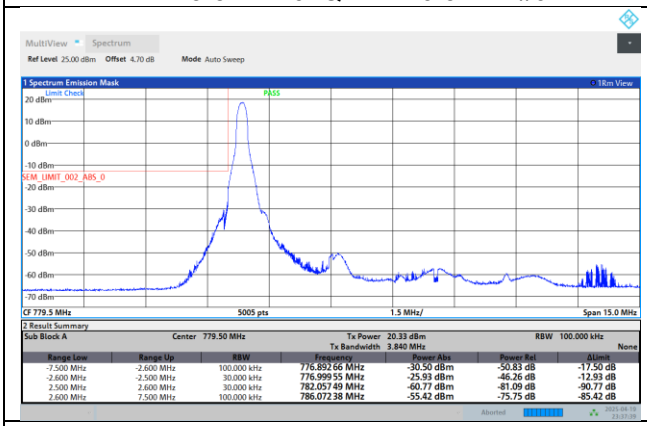
Band13-5MHz-16QAM-784.5-25RB#0



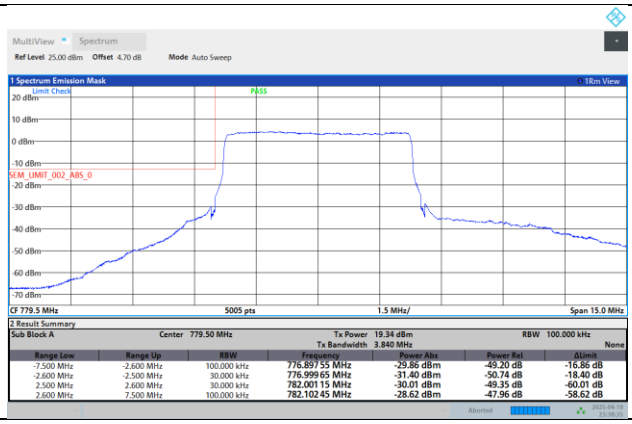
Band13-5MHz-64QAM-779.5-1RB#0



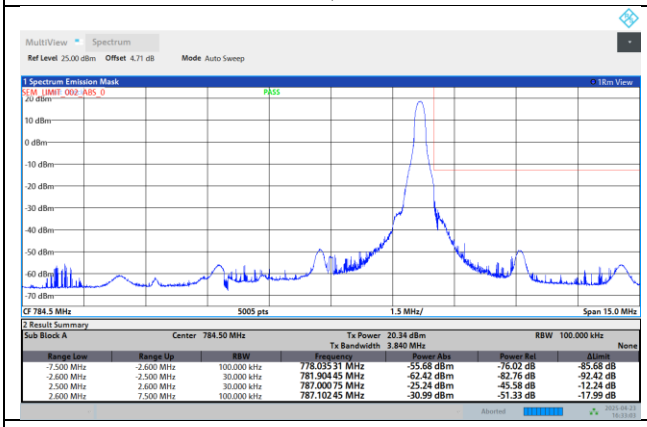
Band13-5MHz-64QAM-779.5-25RB#0



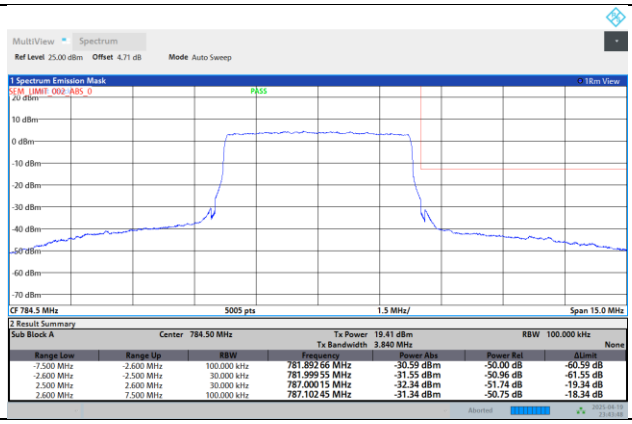
Band13-5MHz-64QAM-784.5-1RB#24



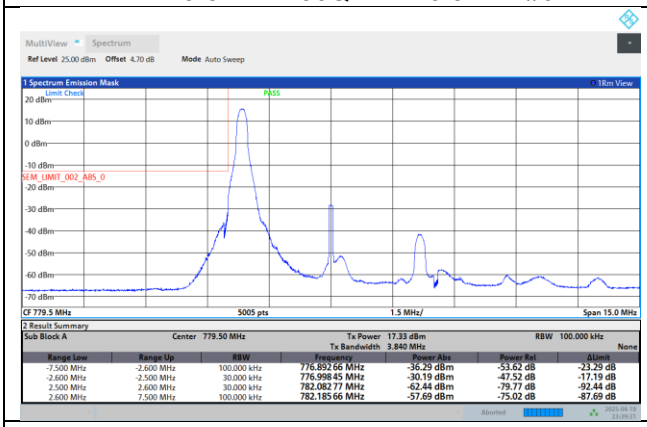
Band13-5MHz-64QAM-784.5-25RB#0



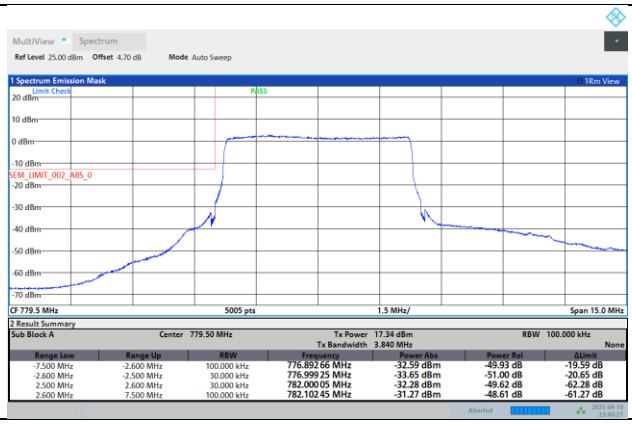
Band13-5MHz-256QAM-779.5-1RB#0



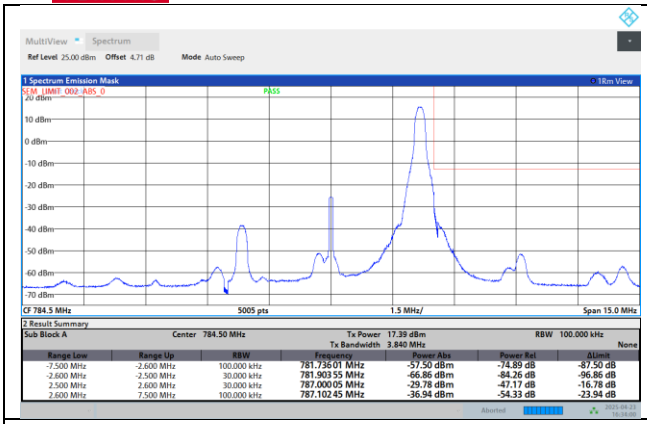
Band13-5MHz-256QAM-779.5-25RB#0



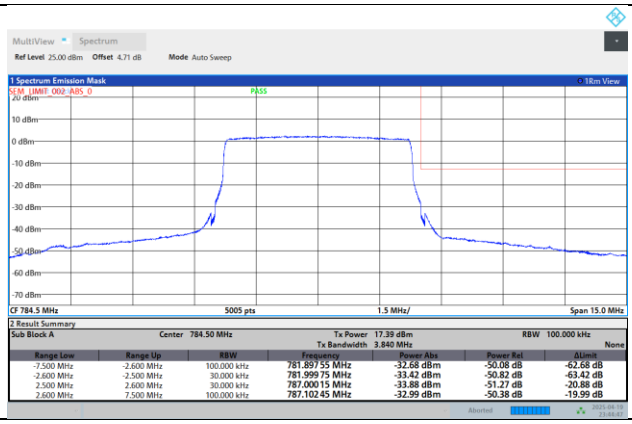
Band13-5MHz-256QAM-784.5-1RB#24



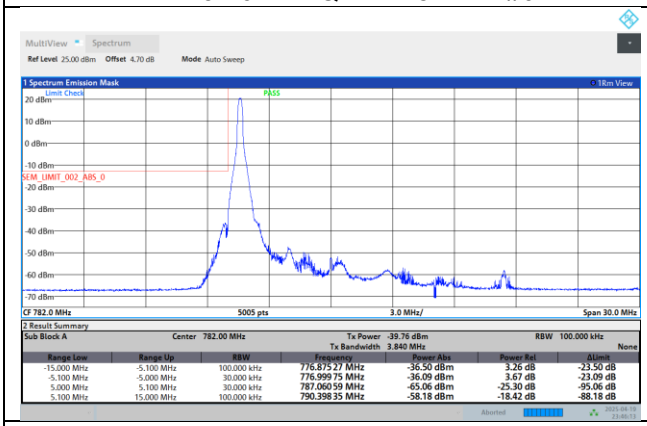
Band13-5MHz-256QAM-784.5-25RB#0



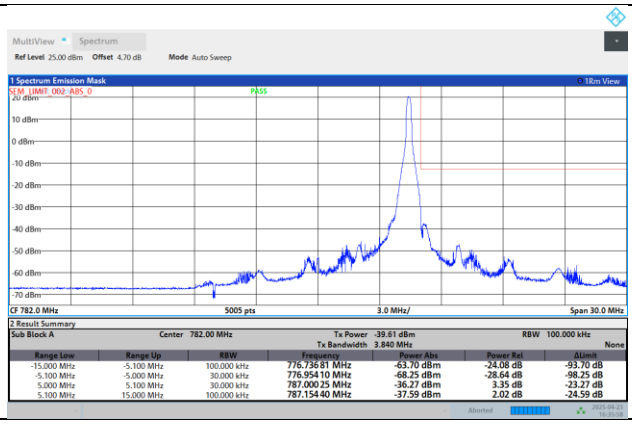
Band13-10MHz-QPSK-782-1RB#0



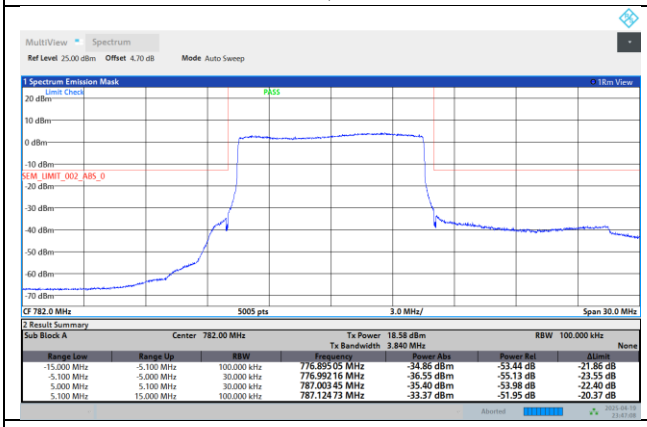
Band13-10MHz-QPSK-782-1RB#49



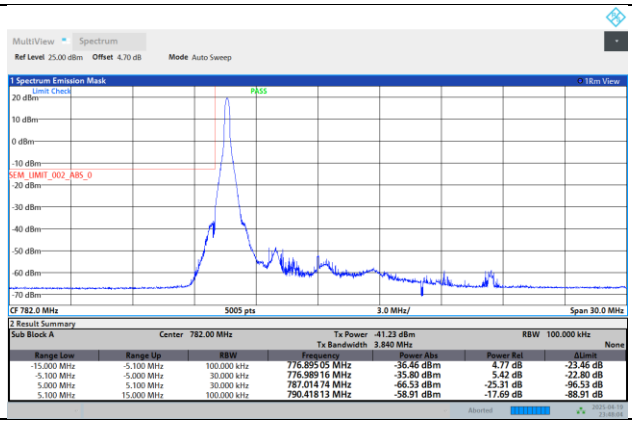
Band13-10MHz-QPSK-782-50RB#0



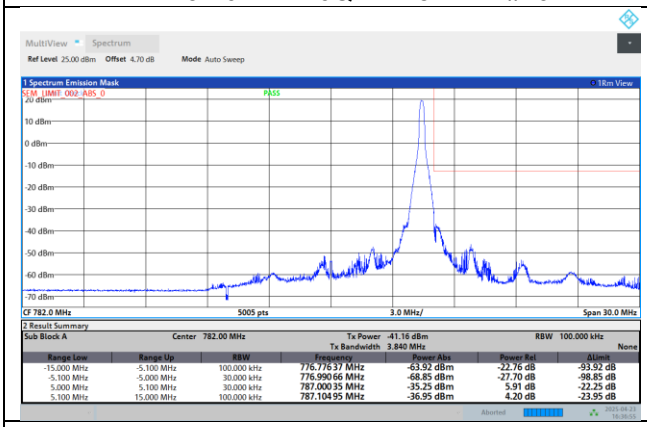
Band13-10MHz-16QAM-782-1RB#0



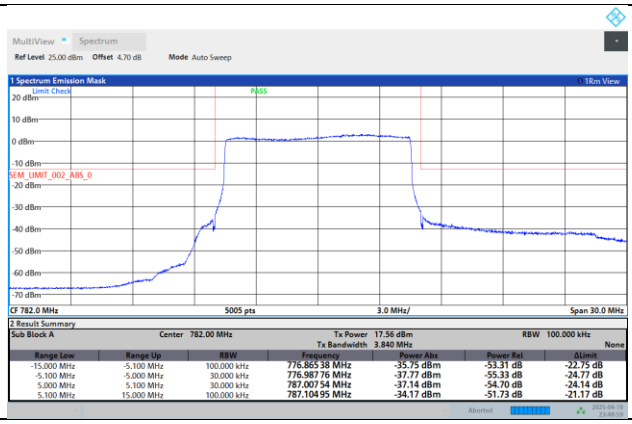
Band13-10MHz-16QAM-782-1RB#49



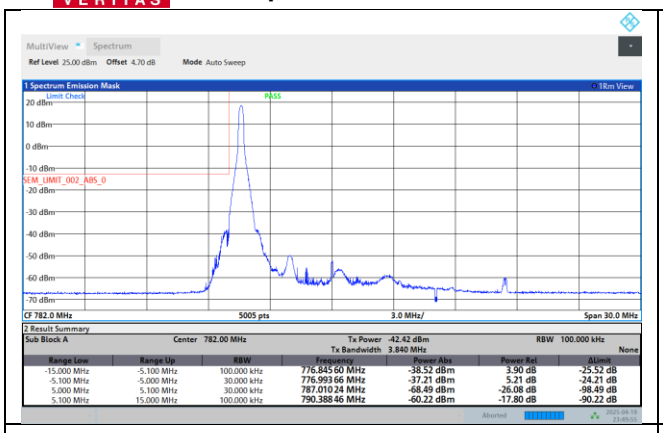
Band13-10MHz-16QAM-782-50RB#0



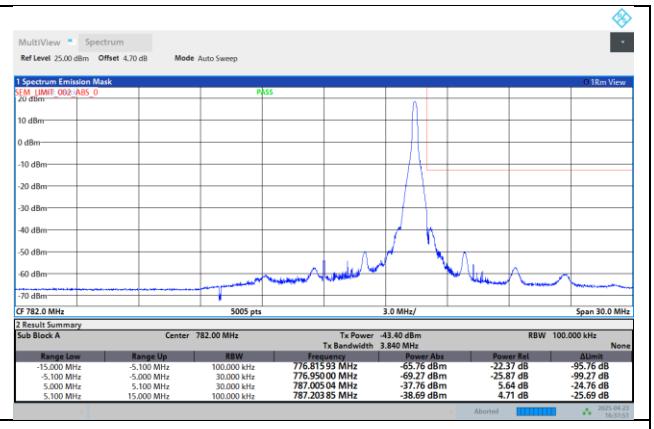
Band13-10MHz-64QAM-782-1RB#0



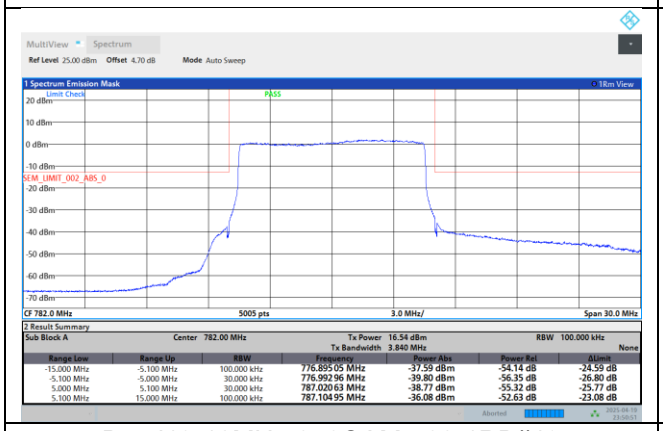
Band13-10MHz-64QAM-782-1RB#49



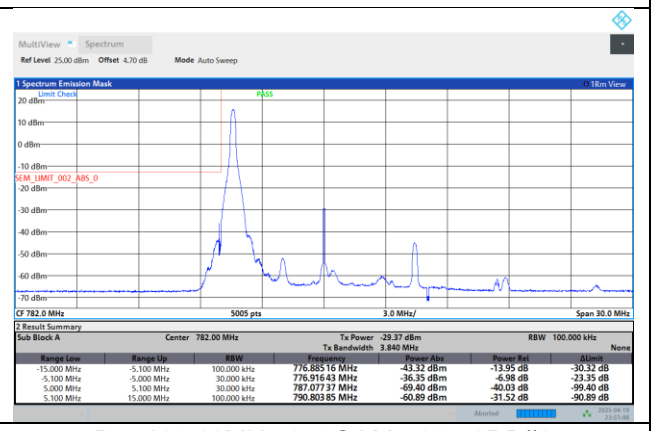
Band13-10MHz-64QAM-782-50RB#0



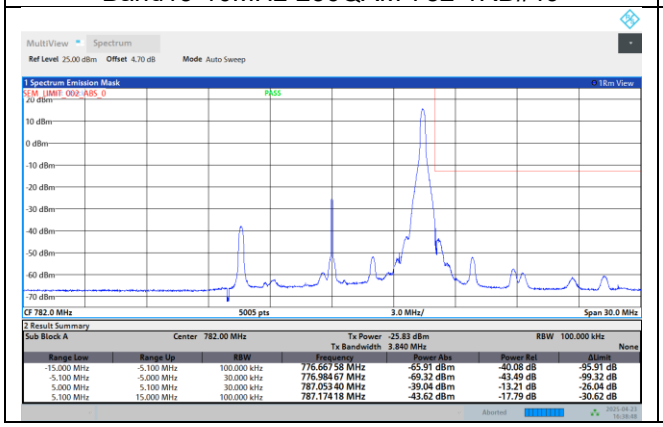
Band13-10MHz-256QAM-782-1RB#0

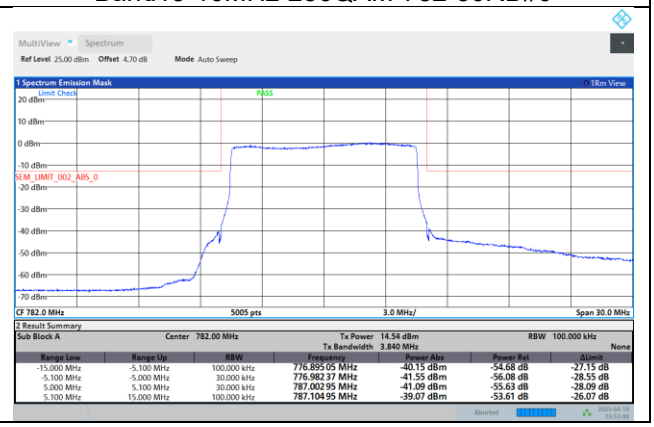


Band13-10MHz-256QAM-782-1RB#49



Band13-10MHz-256QAM-782-50RB#0





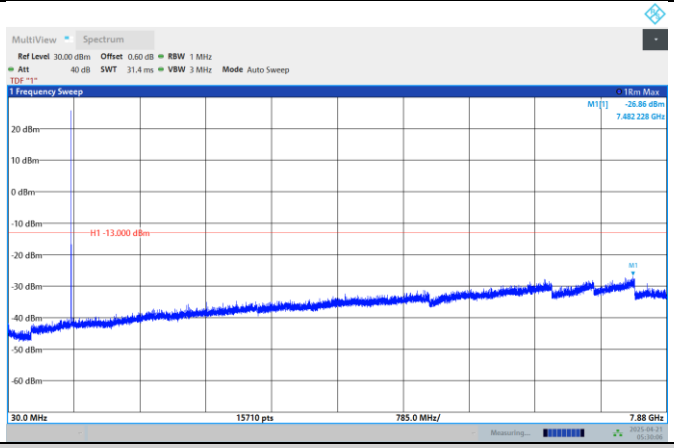
CONDUCTED SPURIOUS EMISSION

Test Result

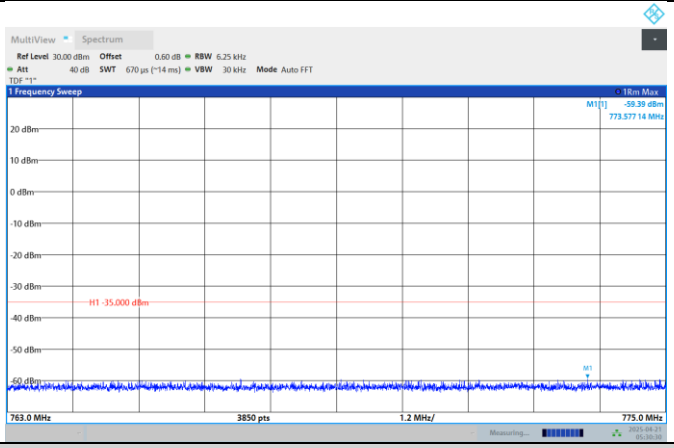
Band	Bandwidth	Modulation	Frequency (MHz)	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band13	5MHz	QPSK	779.5	1RB#0	Range:30~7870MHz	See Graph	PASS
Band13	5MHz	QPSK	779.5	1RB#0	Range:763~775MHz	See Graph	PASS
Band13	5MHz	QPSK	779.5	1RB#0	Range:793~806MHz	See Graph	PASS
Band13	5MHz	QPSK	782	1RB#0	Range:30~7870MHz	See Graph	PASS
Band13	5MHz	QPSK	784.5	1RB#0	Range:30~7870MHz	See Graph	PASS
Band13	10MHz	QPSK	782	1RB#0	Range:30~7870MHz	See Graph	PASS

Test Graphs

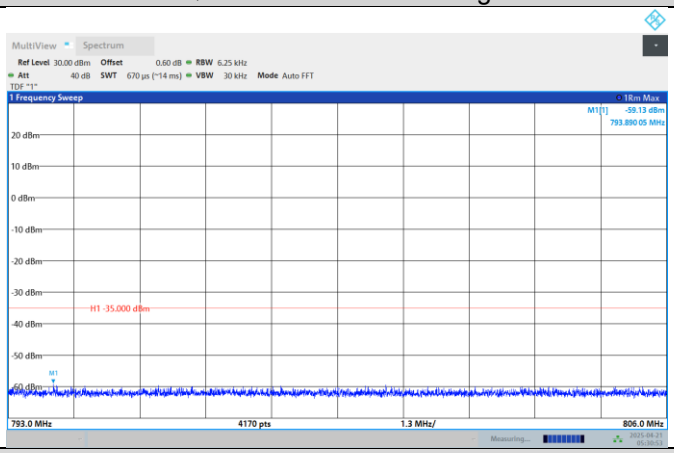
Band13-5MHz-QPSK-779.5-1RB#0-Range:30~7870MHz



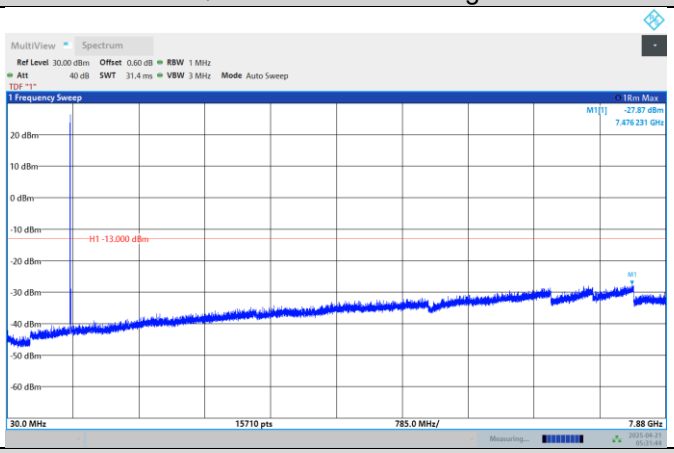
Band13-5MHz-QPSK-779.5-1RB#0-Range:763~775MHz



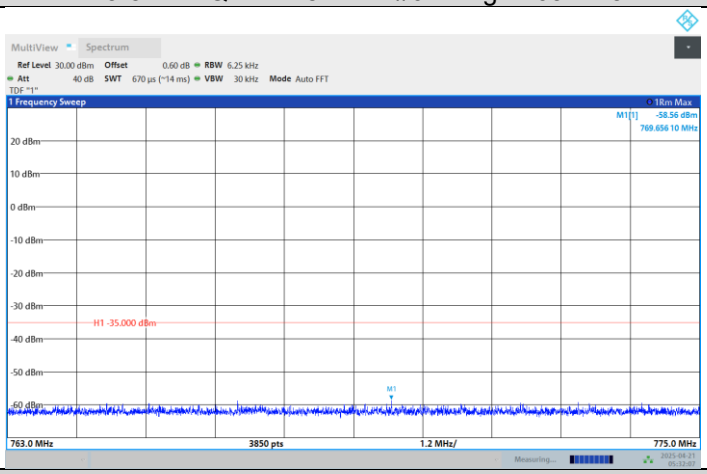
Band13-5MHz-QPSK-779.5-1RB#0-Range:793~806MHz



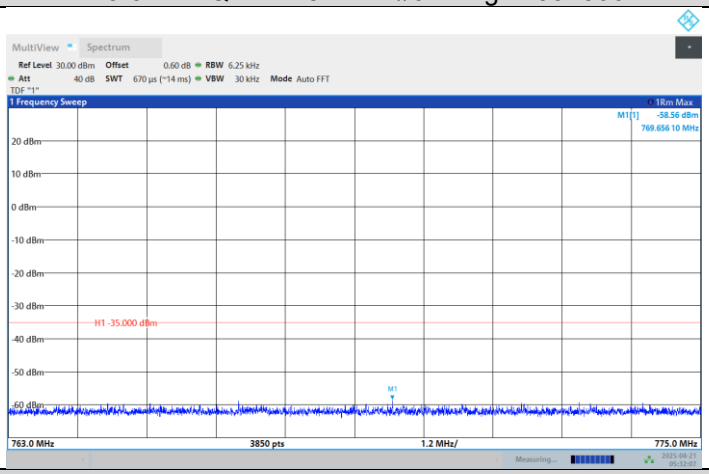
Band13-5MHz-QPSK-782-1RB#0-Range:30~7870MHz



Band13-5MHz-QPSK-782-1RB#0-Range:763~775MHz

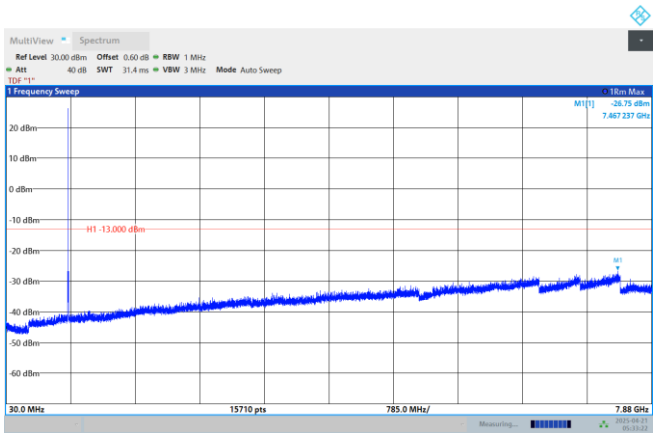


Band13-5MHz-QPSK-782-1RB#0-Range:793~806MHz

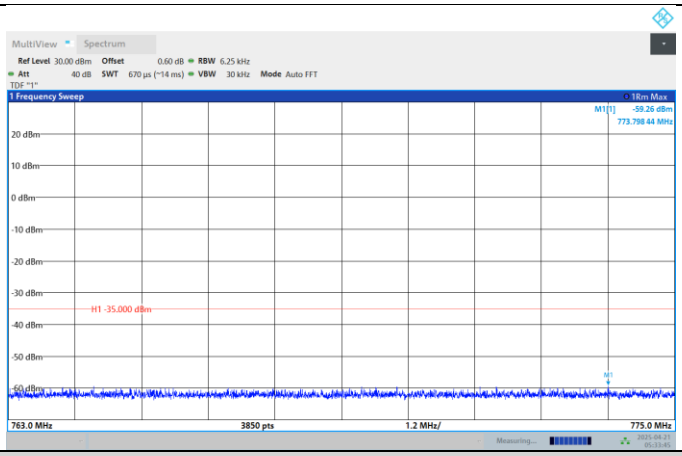


Band13-5MHz-QPSK-784.5-1RB#0-Range:30~7870MHz

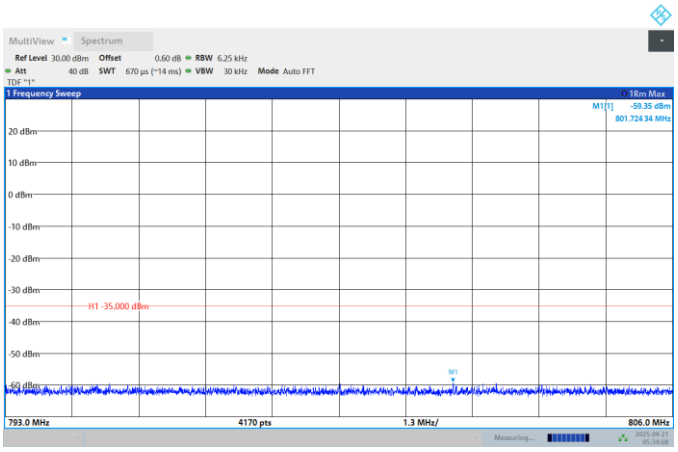
Band13-5MHz-QPSK-784.5-1RB#0-Range:763~775MHz



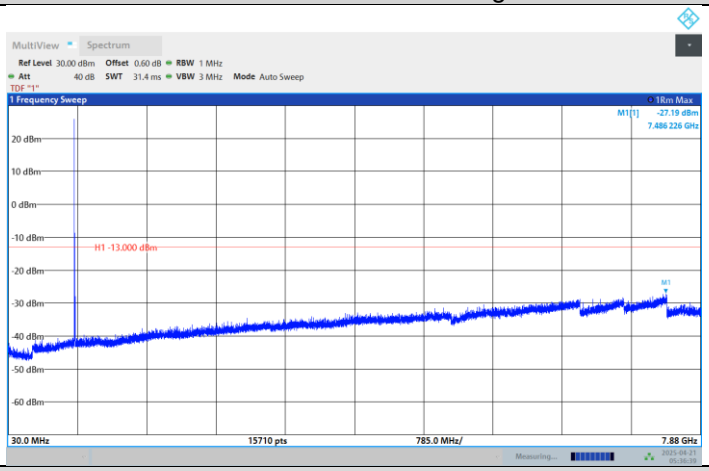
Band13-5MHz-QPSK-784.5-1RB#0-Range:793~806MHz



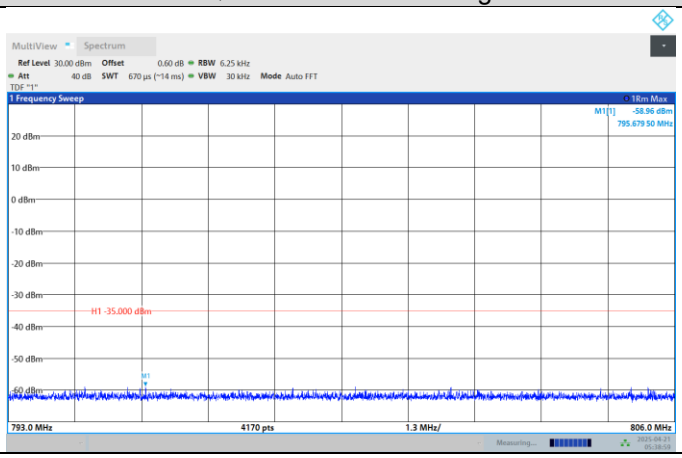
Band13-10MHz-QPSK-782-1RB#0-Range:30~7870MHz



Band13-10MHz-QPSK-782-1RB#0-Range:763~775MHz



Band13-10MHz-QPSK-782-1RB#0-Range:793~806MHz



FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Frequency (MHz)	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	782	75RB#0	LV	NT	-15.36	-0.0196	±2.5	PASS
Band13	10MHz	QPSK	782	75RB#0	NV	NT	11.86	0.0152	±2.5	PASS
Band13	10MHz	QPSK	782	75RB#0	HV	NT	12.00	0.0153	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Frequency (MHz)	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band13	10MHz	QPSK	782	75RB#0	NV	-30	20.66	0.0264	±2.5	PASS
Band13	10MHz	QPSK	782	75RB#0	NV	-20	-22.98	-0.0294	±2.5	PASS
Band13	10MHz	QPSK	782	75RB#0	NV	-10	16.39	0.0210	±2.5	PASS
Band13	10MHz	QPSK	782	75RB#0	NV	0	-0.67	-0.0009	±2.5	PASS
Band13	10MHz	QPSK	782	75RB#0	NV	10	-24.64	-0.0315	±2.5	PASS
Band13	10MHz	QPSK	782	75RB#0	NV	20	-4.27	-0.0055	±2.5	PASS
Band13	10MHz	QPSK	782	75RB#0	NV	30	-4.98	-0.0064	±2.5	PASS
Band13	10MHz	QPSK	782	75RB#0	NV	40	12.99	0.0166	±2.5	PASS
Band13	10MHz	QPSK	782	75RB#0	NV	50	7.36	0.0094	±2.5	PASS

LTE BAND30

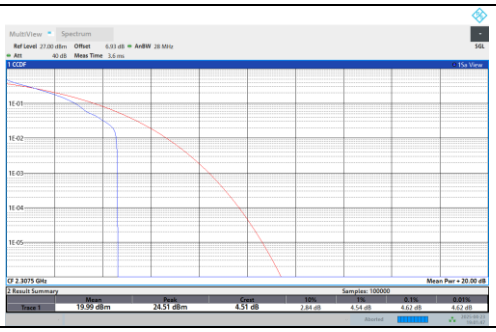
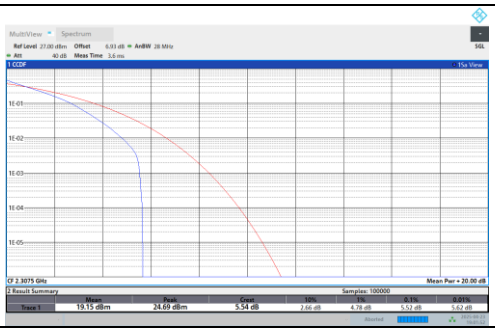
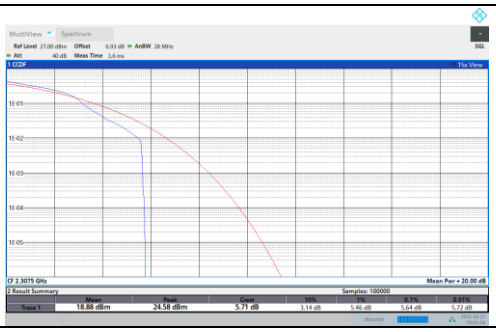
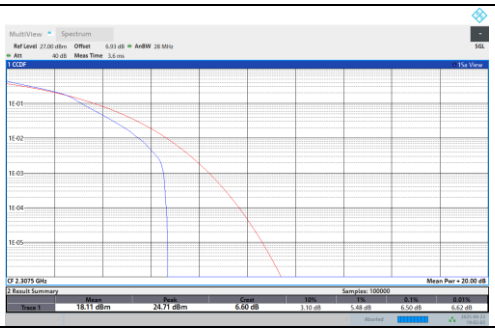
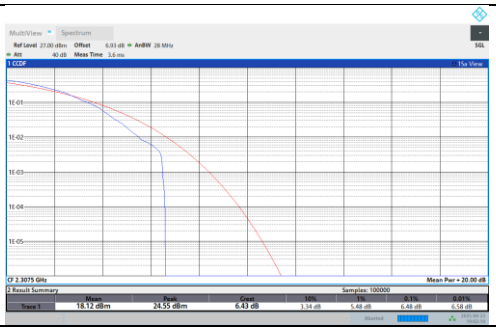
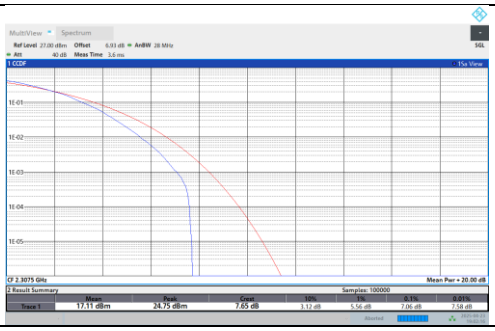
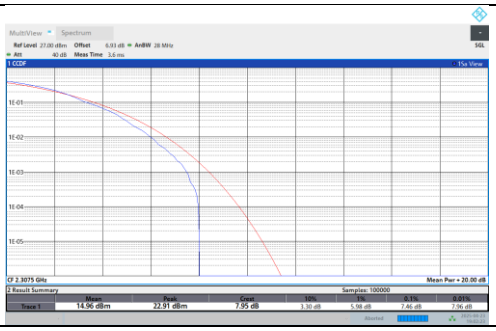
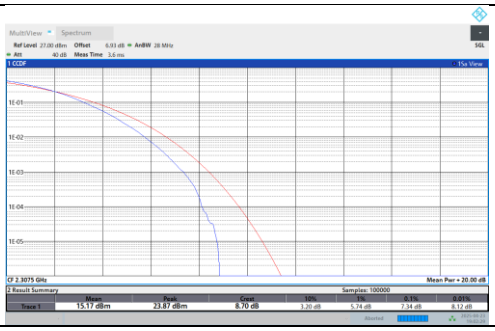
PEAK-TO-AVERAGE RATIO(CCDF)

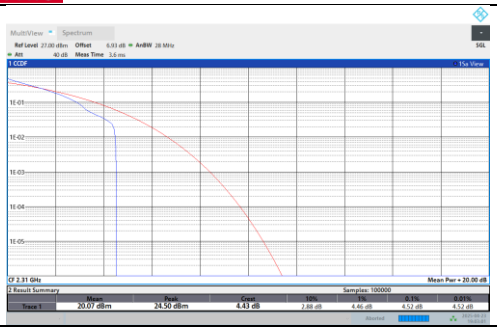
Test Result

Bandwidth	Modulation	Frequency (MHz)	RB Configuration	Result (dB)	Limit (dB)	Verdict
5MHz	QPSK	2307.5	1 RB low	4.62	13	PASS
5MHz	QPSK	2307.5	100% RB	5.52	13	PASS
5MHz	16QAM	2307.5	1 RB low	5.64	13	PASS
5MHz	16QAM	2307.5	100% RB	6.5	13	PASS
5MHz	64QAM	2307.5	1 RB low	6.48	13	PASS
5MHz	64QAM	2307.5	100% RB	7.06	13	PASS
5MHz	256QAM	2307.5	1 RB low	7.46	13	PASS
5MHz	256QAM	2307.5	100% RB	7.34	13	PASS
5MHz	QPSK	2310	1 RB low	4.52	13	PASS
5MHz	QPSK	2310	100% RB	5.36	13	PASS
5MHz	16QAM	2310	1 RB low	5.46	13	PASS
5MHz	16QAM	2310	100% RB	6.46	13	PASS
5MHz	64QAM	2310	1 RB low	6.44	13	PASS
5MHz	64QAM	2310	100% RB	6.94	13	PASS
5MHz	256QAM	2310	1 RB low	7.82	13	PASS
5MHz	256QAM	2310	100% RB	7.32	13	PASS
5MHz	QPSK	2312.5	1 RB low	4.42	13	PASS
5MHz	QPSK	2312.5	100% RB	5.28	13	PASS
5MHz	16QAM	2312.5	1 RB low	5.36	13	PASS
5MHz	16QAM	2312.5	100% RB	6.4	13	PASS
5MHz	64QAM	2312.5	1 RB low	6.46	13	PASS
5MHz	64QAM	2312.5	100% RB	6.94	13	PASS
5MHz	256QAM	2312.5	1 RB low	7.52	13	PASS
5MHz	256QAM	2312.5	100% RB	7.2	13	PASS
10MHz	QPSK	2310	1 RB low	4.52	13	PASS
10MHz	QPSK	2310	100% RB	5.5	13	PASS
10MHz	16QAM	2310	1 RB low	5.46	13	PASS
10MHz	16QAM	2310	100% RB	6.4	13	PASS
10MHz	64QAM	2310	1 RB low	6.36	13	PASS
10MHz	64QAM	2310	100% RB	6.92	13	PASS
10MHz	256QAM	2310	1 RB low	7.08	13	PASS
10MHz	256QAM	2310	100% RB	7.22	13	PASS
10MHz	QPSK	2310	1 RB low	4.52	13	PASS
10MHz	QPSK	2310	100% RB	5.46	13	PASS
10MHz	16QAM	2310	1 RB low	5.36	13	PASS
10MHz	16QAM	2310	100% RB	6.4	13	PASS
10MHz	64QAM	2310	1 RB low	6.42	13	PASS
10MHz	64QAM	2310	100% RB	6.9	13	PASS
10MHz	256QAM	2310	1 RB low	7.34	13	PASS
10MHz	256QAM	2310	100% RB	7.32	13	PASS
10MHz	QPSK	2310	1 RB low	4.52	13	PASS
10MHz	QPSK	2310	100% RB	5.5	13	PASS

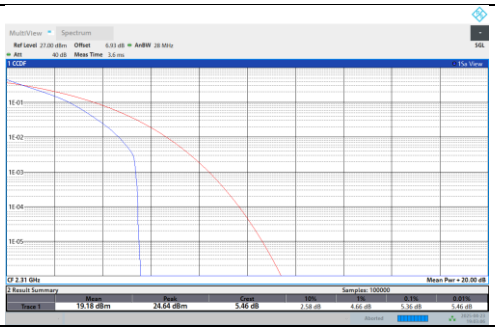
10MHz	16QAM	2310	1 RB low	5.46	13	PASS
10MHz	16QAM	2310	100% RB	6.42	13	PASS
10MHz	64QAM	2310	1 RB low	6.52	13	PASS
10MHz	64QAM	2310	100% RB	6.96	13	PASS
10MHz	256QAM	2310	1 RB low	7.62	13	PASS
10MHz	256QAM	2310	100% RB	7.3	13	PASS

Test Graphs

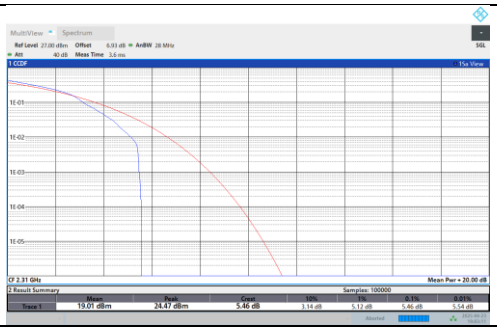
Band 30-5M-LOW-1 RB low	Band 30-5M-LOW-100% RB
	
Band 30-5M-LOW-1 RB low	Band 30-5M-LOW-100% RB
	
Band 30-5M-LOW-1 RB low	Band 30-5M-LOW-100% RB
	
Band 30-5M-LOW-1 RB low	Band 30-5M-LOW-100% RB
	
Band 30-5M-MID-1 RB low	Band 30-5M-MID-100% RB



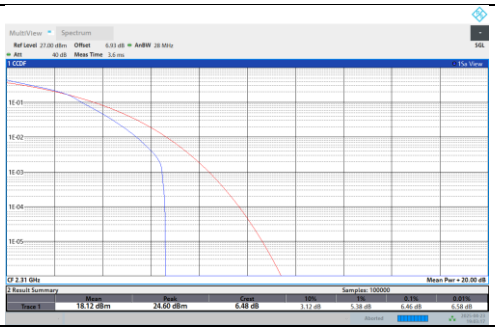
Band 30-5M-MID-1 RB low



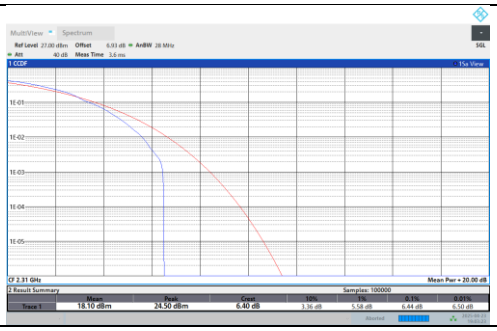
Band 30-5M-MID-100% RB



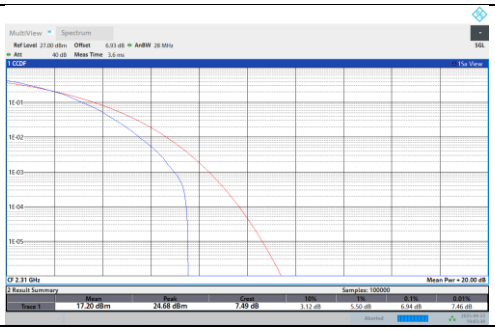
Band 30-5M-MID-1 RB low



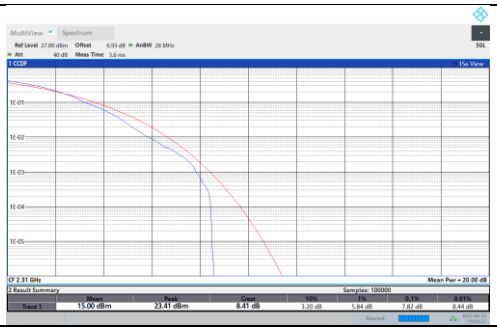
Band 30-5M-MID-100% RB



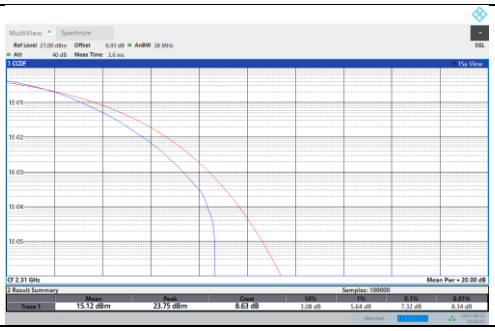
Band 30-5M-MID-1 RB low



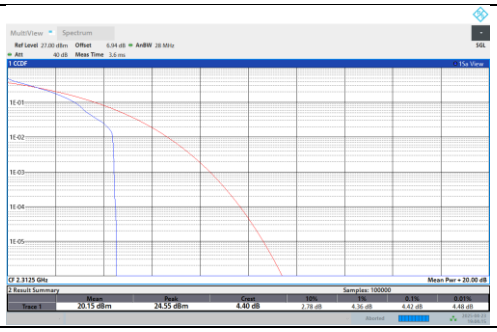
Band 30-5M-MID-100% RB



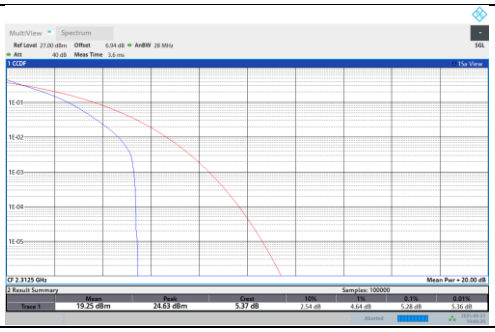
Band 30-5M-HIGH-1 RB low



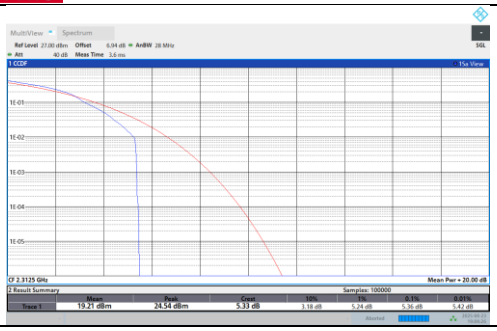
Band 30-5M-HIGH-100% RB



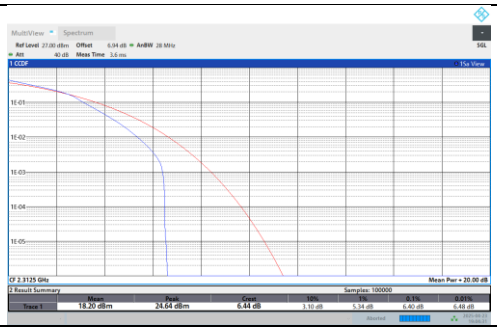
Band 30-5M-HIGH-1 RB low



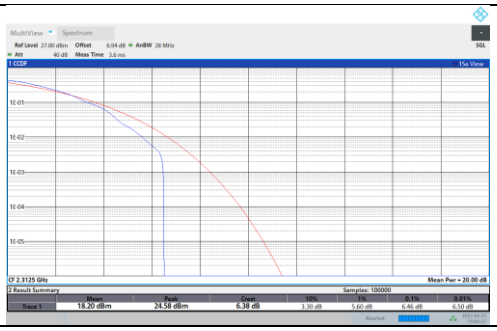
Band 30-5M-HIGH-100% RB



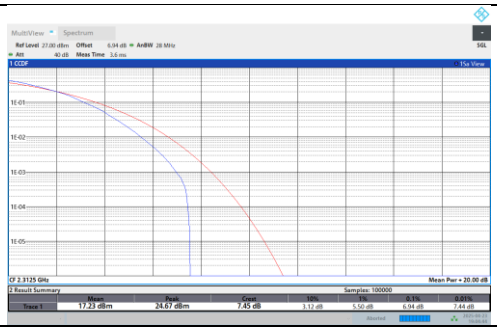
Band 30-5M-HIGH-1 RB low



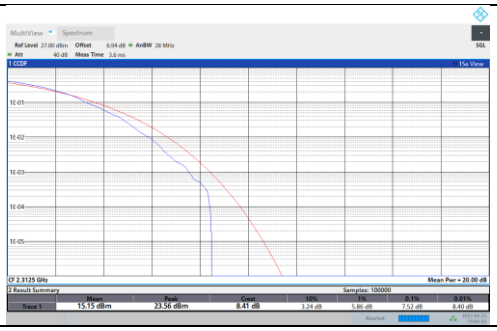
Band 30-5M-HIGH-100% RB



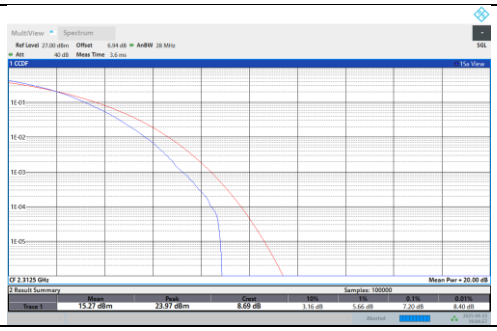
Band 30-5M-HIGH-1 RB low



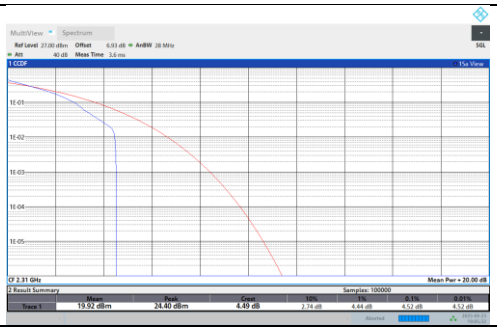
Band 30-5M-HIGH-100% RB



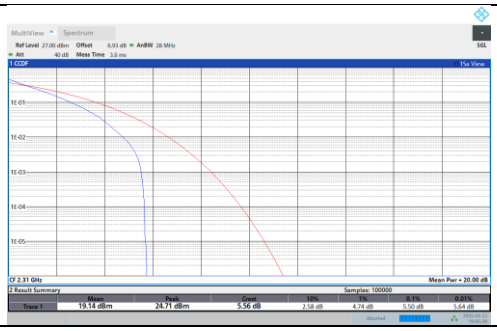
Band 30-10M-LOW-1 RB low



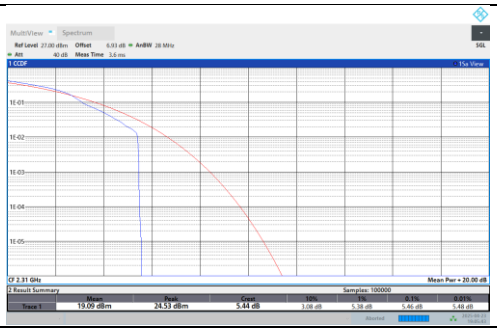
Band 30-10M-LOW-100% RB



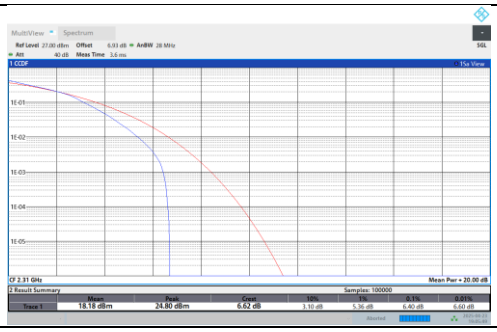
Band 30-10M-LOW-1 RB low



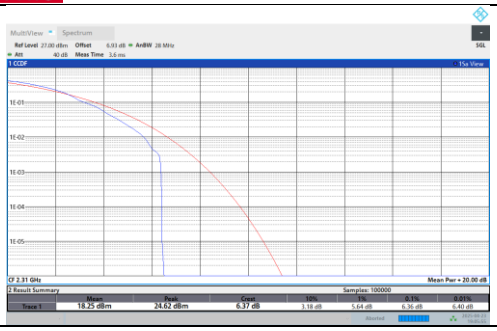
Band 30-10M-LOW-100% RB



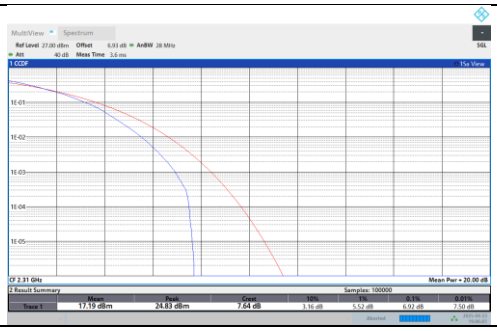
Band 30-10M-LOW-1 RB low



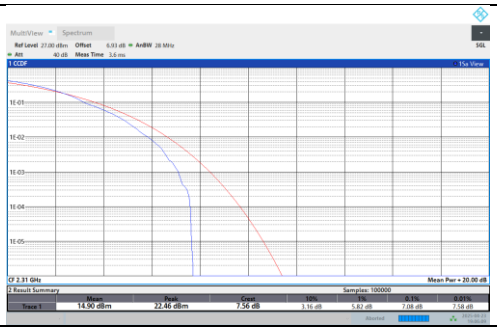
Band 30-10M-LOW-100% RB



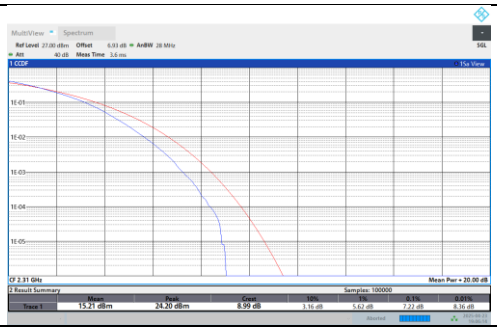
Band 30-10M-LOW-1 RB low



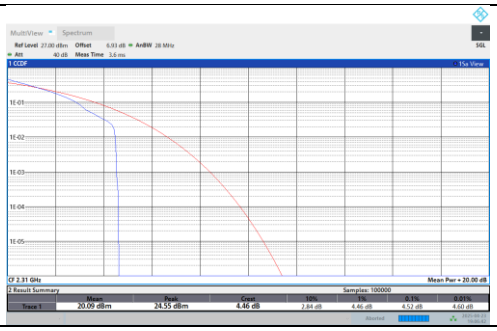
Band 30-10M-LOW-100% RB



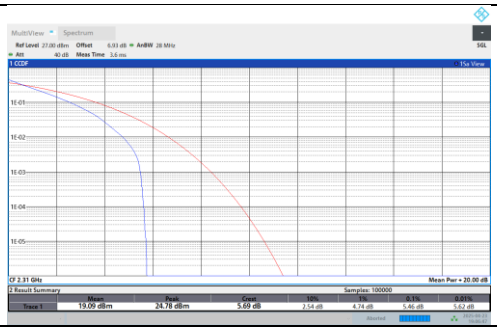
Band 30-10M-MID-1 RB low



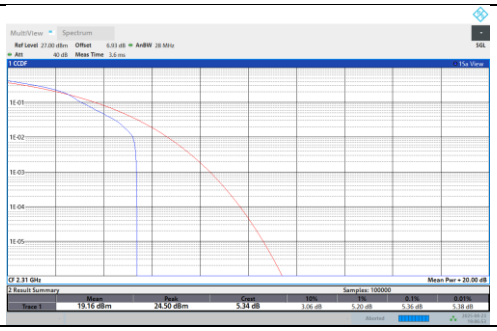
Band 30-10M-MID-100% RB



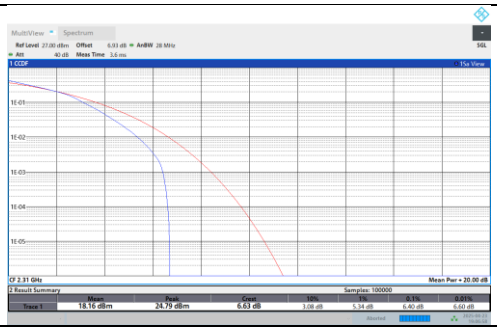
Band 30-10M-MID-1 RB low



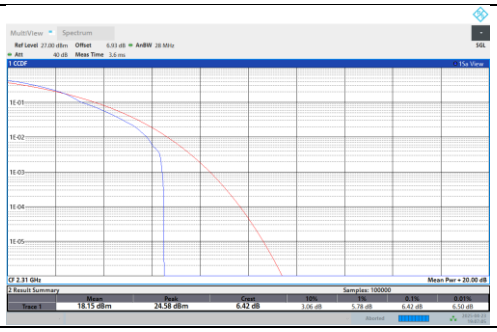
Band 30-10M-MID-100% RB



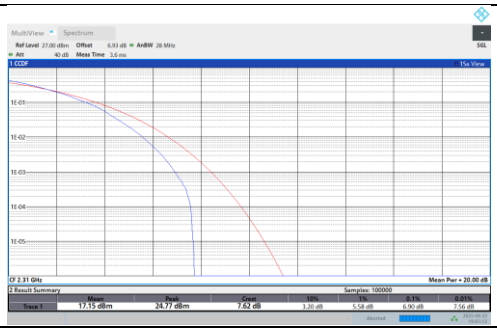
Band 30-10M-MID-1 RB low



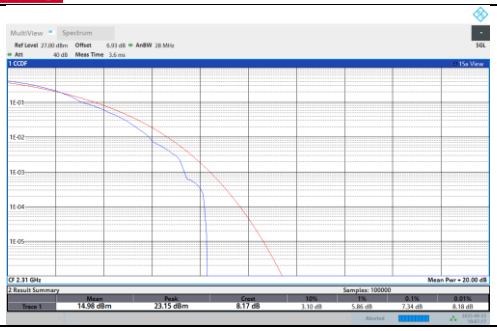
Band 30-10M-MID-100% RB



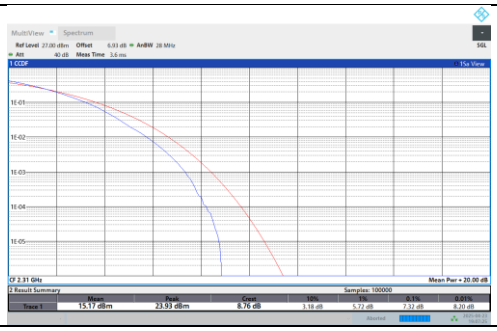
Band 30-10M-MID-1 RB low



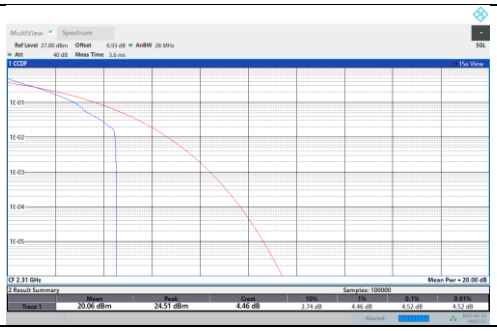
Band 30-10M-MID-100% RB



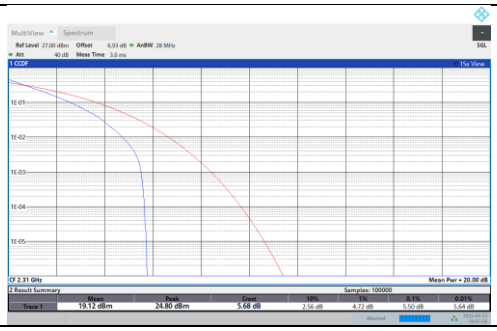
Band 30-10M-HIGH-1 RB low



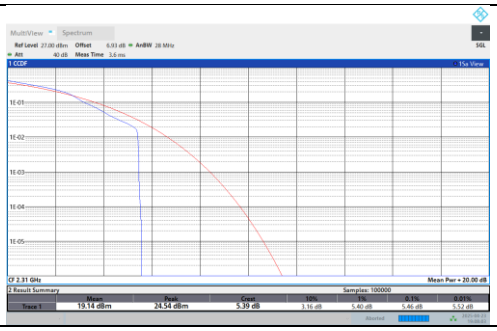
Band 30-10M-HIGH-100% RB



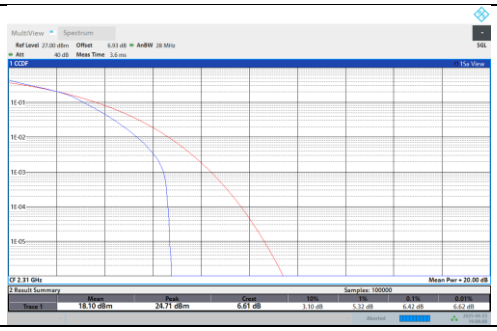
Band 30-10M-HIGH-1 RB low



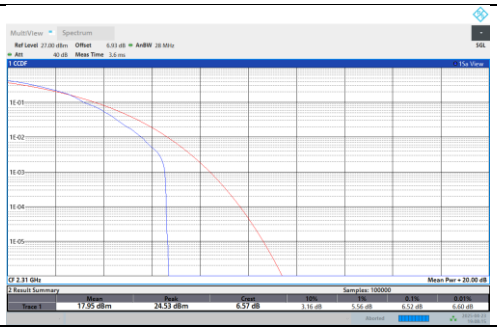
Band 30-10M-HIGH-100% RB



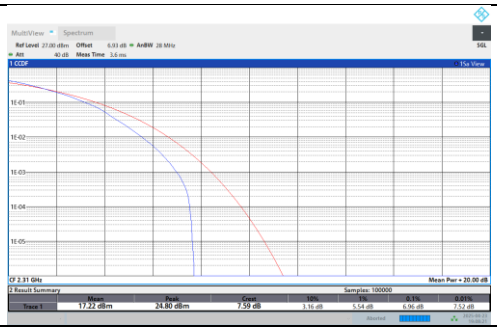
Band 30-10M-HIGH-1 RB low



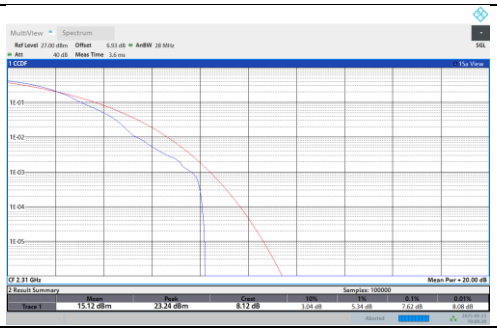
Band 30-10M-HIGH-100% RB

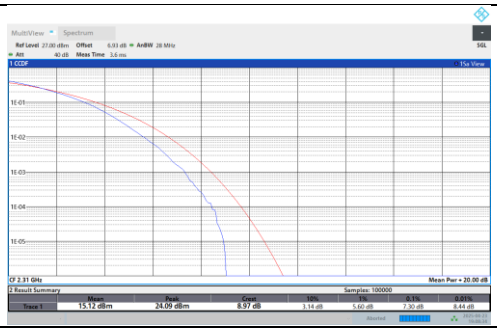


Band 30-10M-HIGH-1 RB low



Band 30-10M-HIGH-100% RB





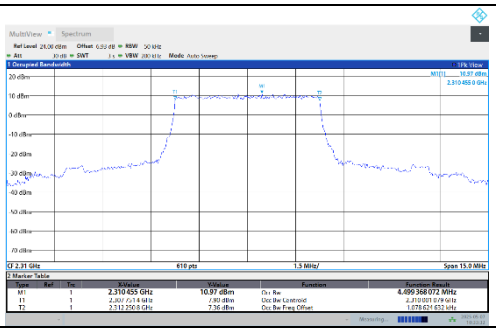
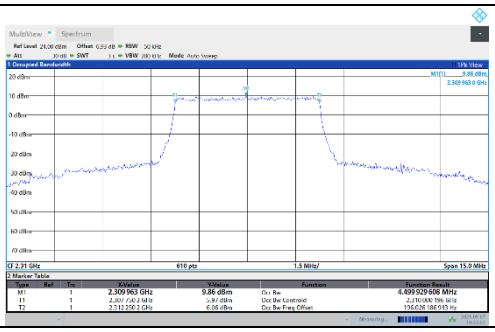
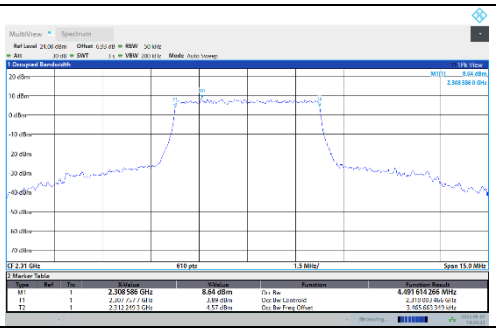
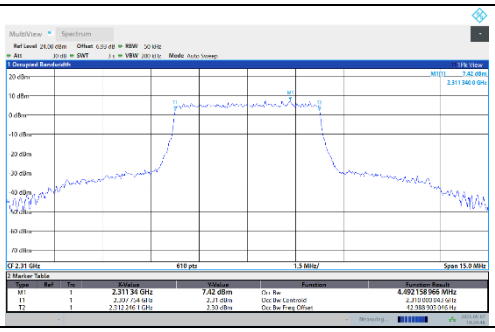
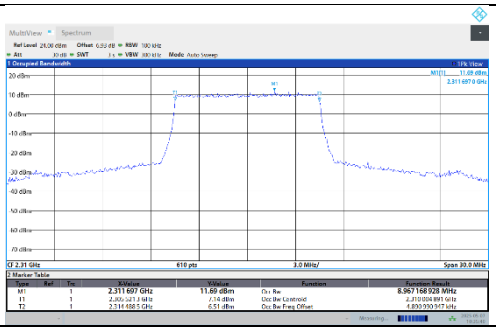
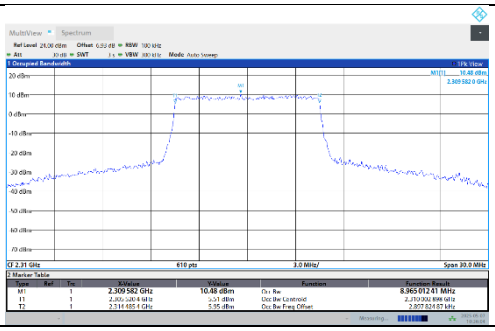
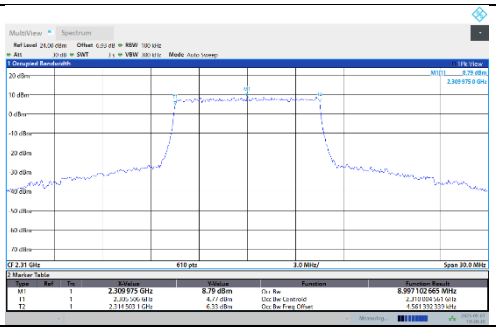
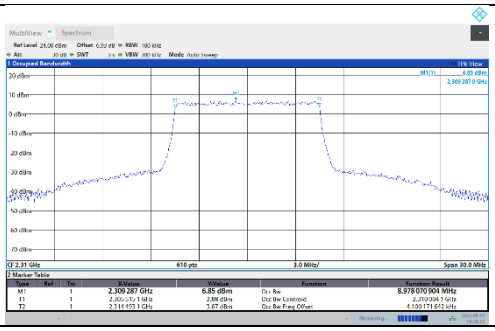
26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Occupied Bandwidth

Test Result

Bandwidth	Modulation	Frequency (MHz)	RB Configuration	Occupied Bandwidth(MHz)	Verdict
5MHz	QPSK	2310	100% RB	4.499	PASS
5MHz	16QAM	2310	100% RB	4.5	PASS
5MHz	64QAM	2310	100% RB	4.492	PASS
5MHz	256QAM	2310	100% RB	4.492	PASS
10MHz	QPSK	2310	100% RB	8.967	PASS
10MHz	16QAM	2310	100% RB	8.965	PASS
10MHz	64QAM	2310	100% RB	8.997	PASS
10MHz	256QAM	2310	100% RB	8.978	PASS

Test Graphs

Band 30-5M-MID-100% RB	Band 30-5M-MID-100% RB
	
Band 30-5M-MID-100% RB	**Band 30-5M-MID-100% RB**
	
Band 30-10M-MID-100% RB	**Band 30-10M-MID-100% RB**
	
Band 30-10M-MID-100% RB	**Band 30-10M-MID-100% RB**