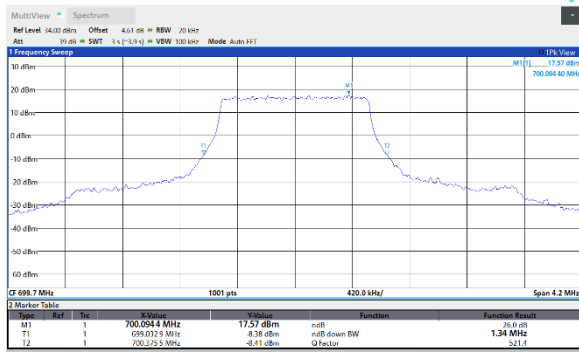
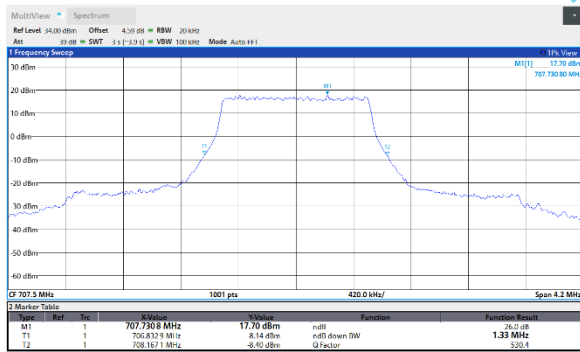




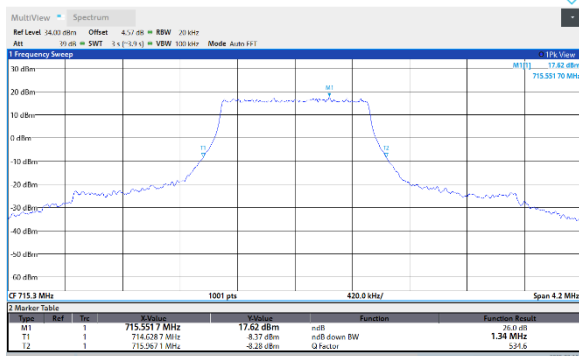
Band12-1.4MHz-QPSK-23017-6RB#0



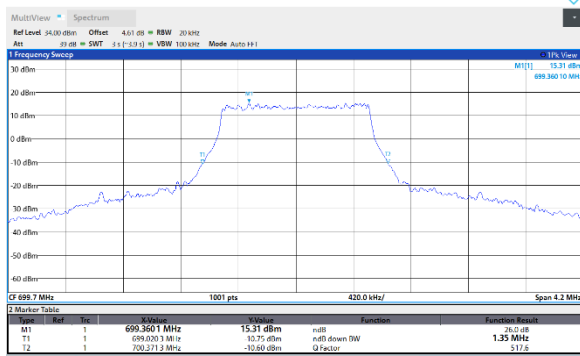
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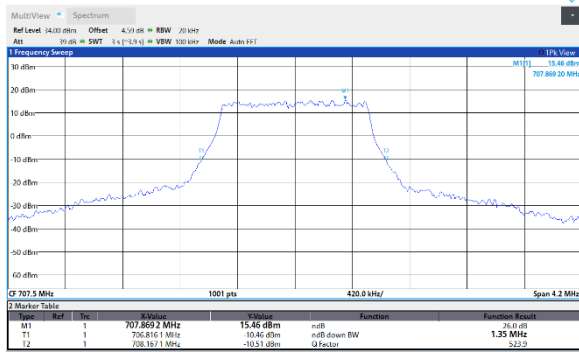
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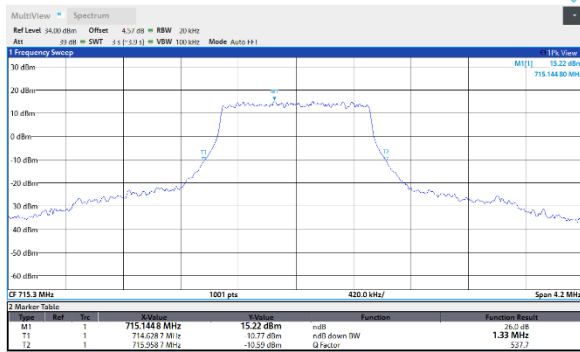
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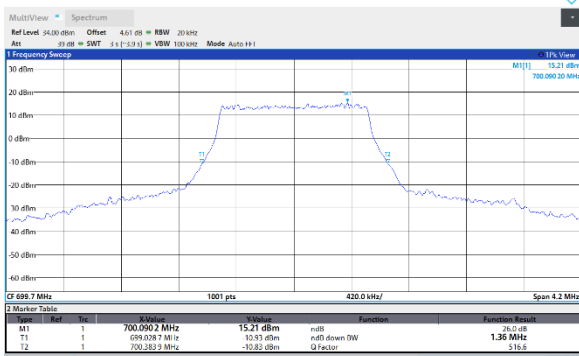
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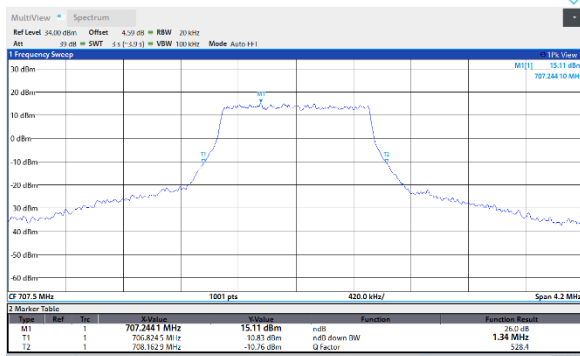
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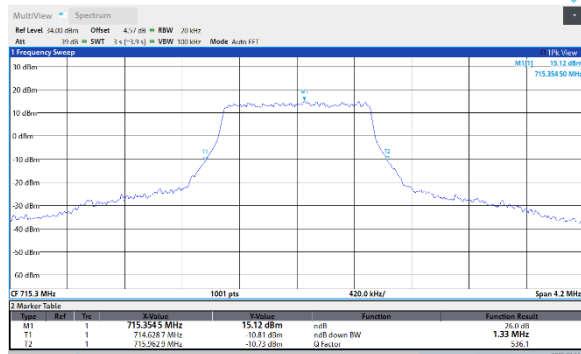
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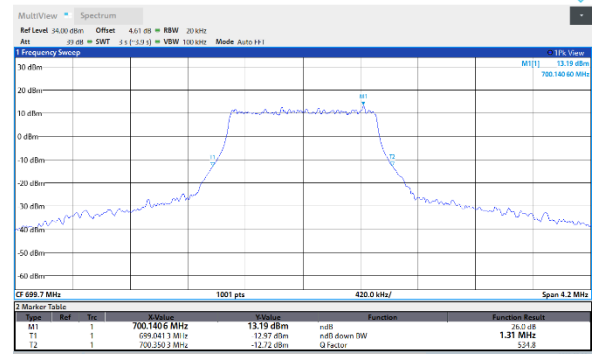


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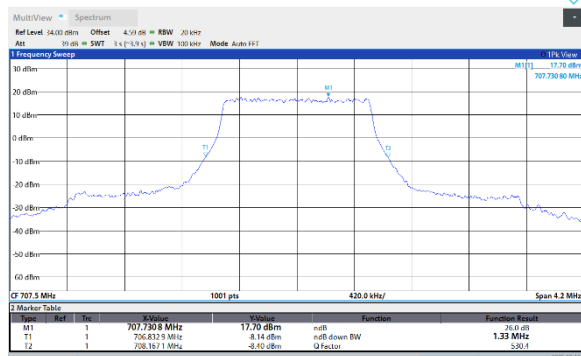
Test Report No.: PSU-NQN2412090210RF08



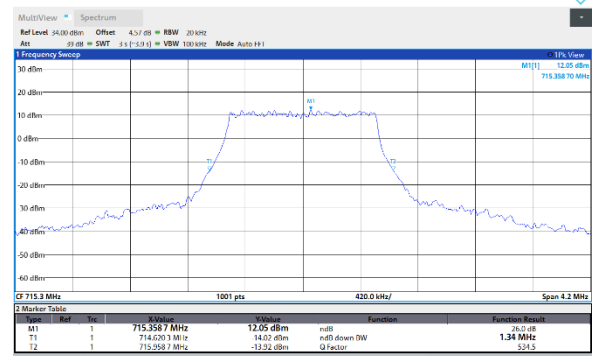
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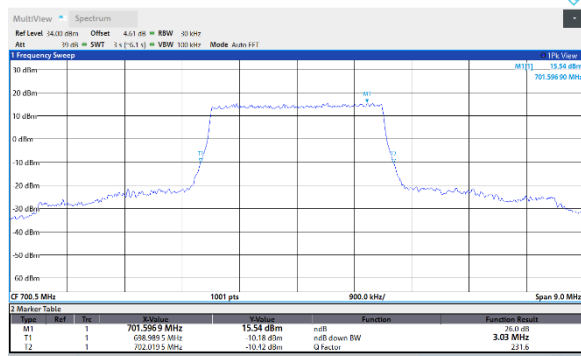
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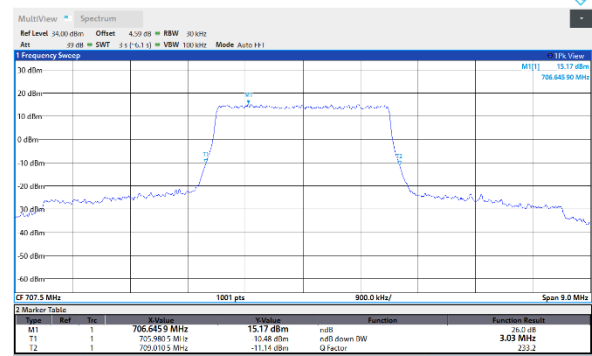
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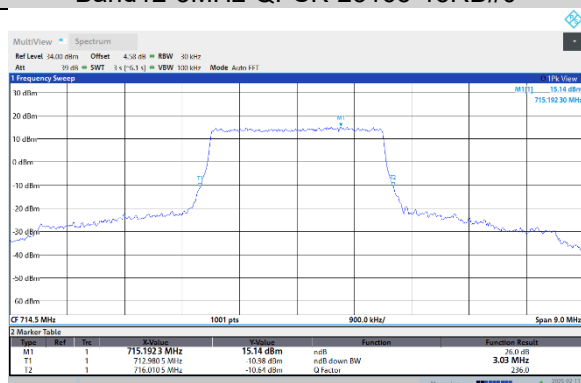
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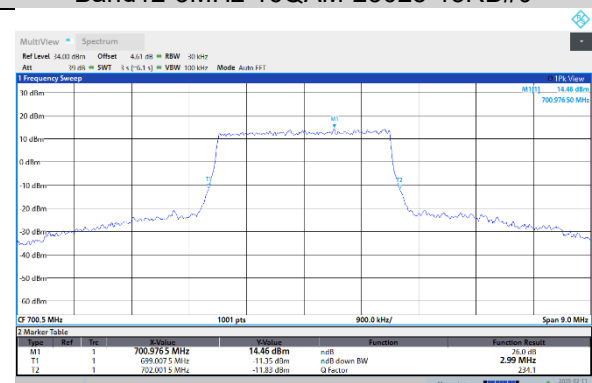
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Band12-3MHz-16QAM-23025-15RB#0



Band12-3MHz-16QAM-23095-15RB#0

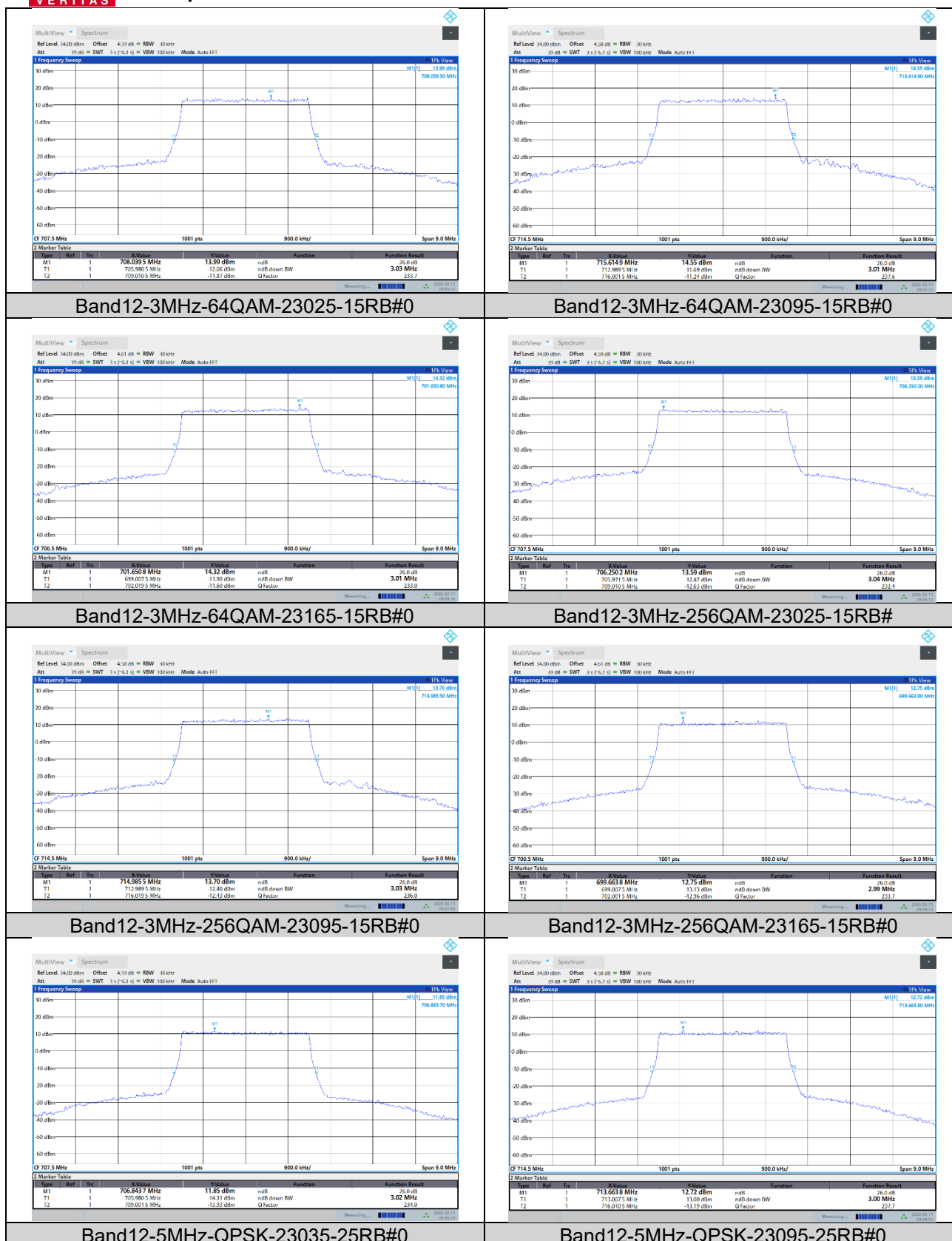


Band12-3MHz-16QAM-23165-15RB#0



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Test Report No.: PSU-NQN2412090210RF08



Huarui 7layers High Technology
(Suzhou) Co., Ltd.

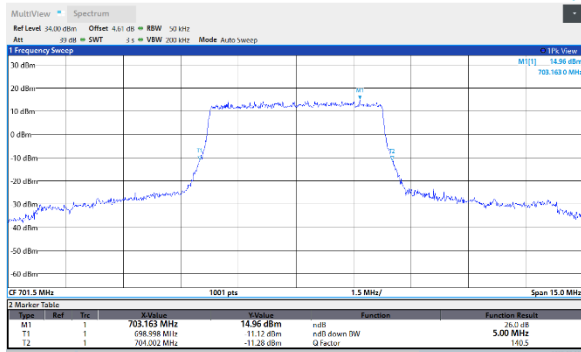
Tower N, Innovation Center, 88 Zuyi Road, High-tech District,
Suzhou City, Anhui Province

Tel: +86 (0557)
368 1008

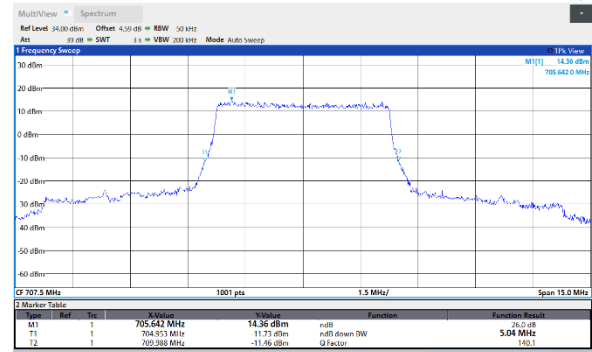


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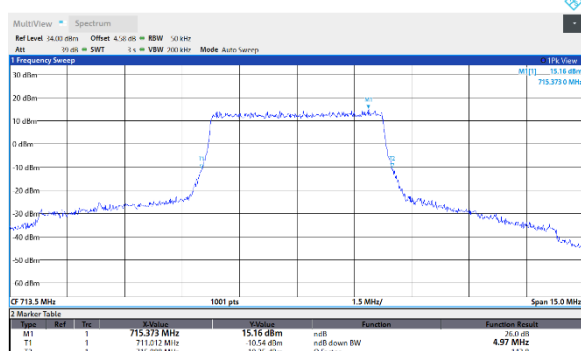
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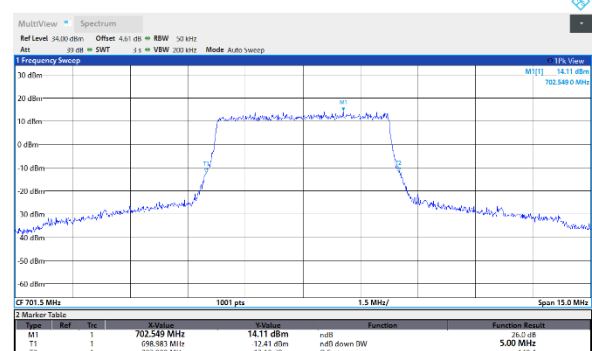
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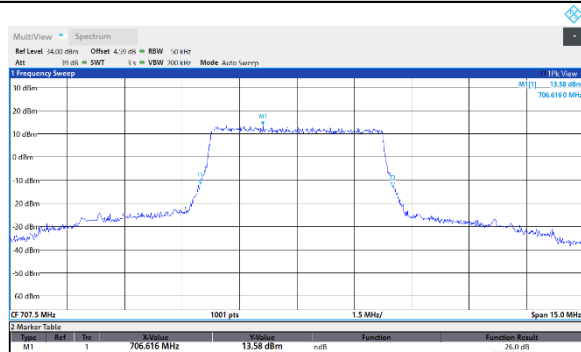
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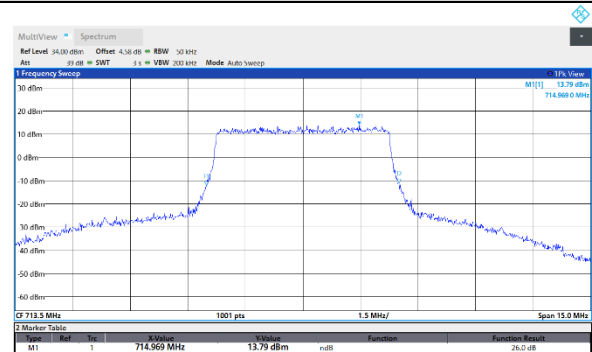
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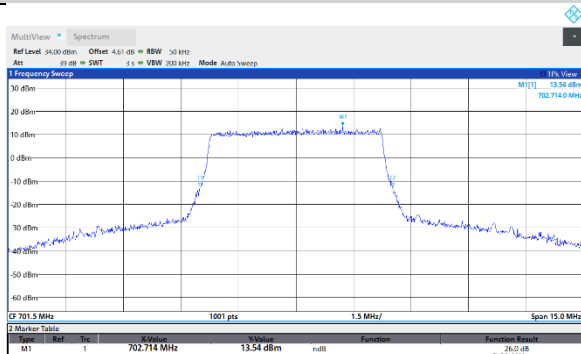
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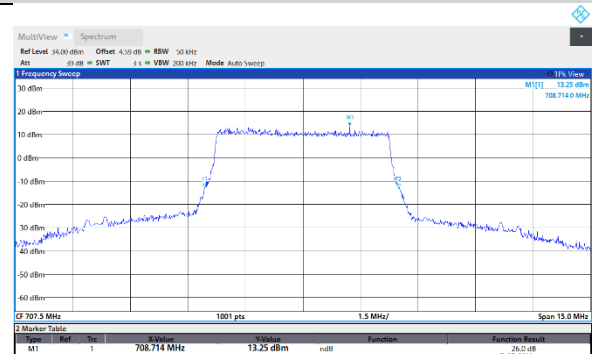
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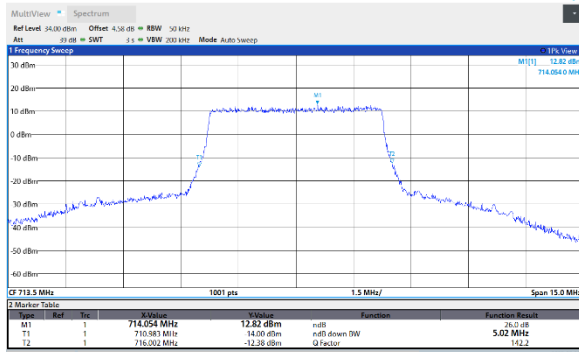


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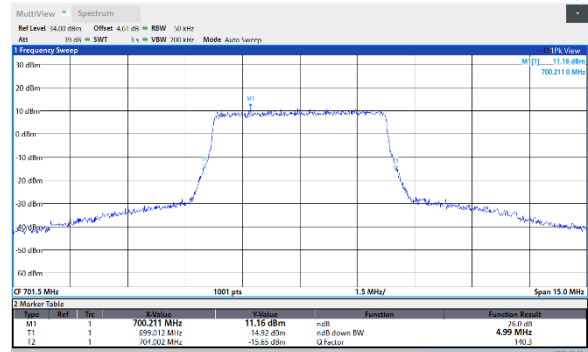


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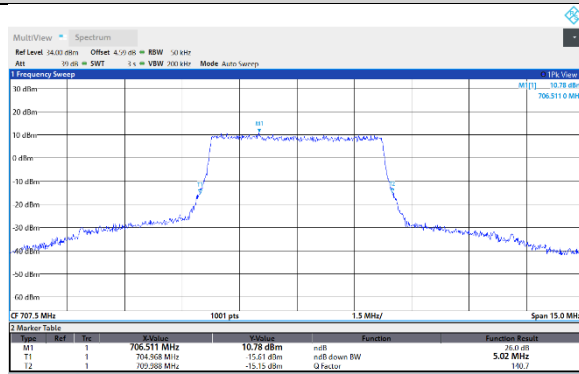
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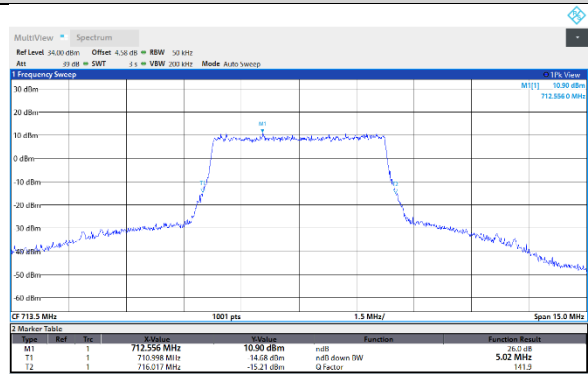
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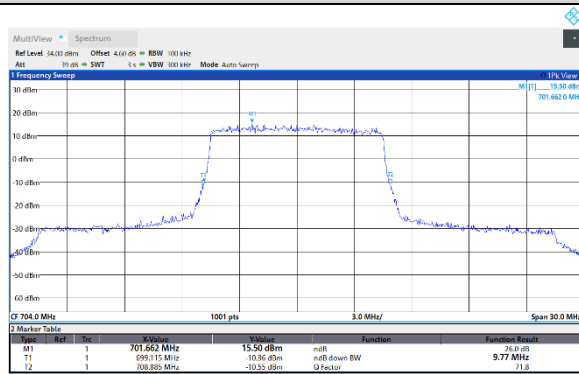
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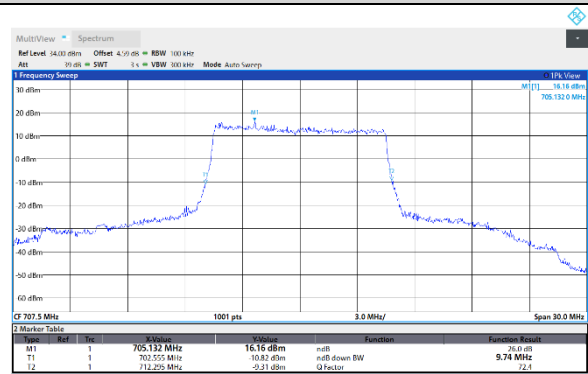
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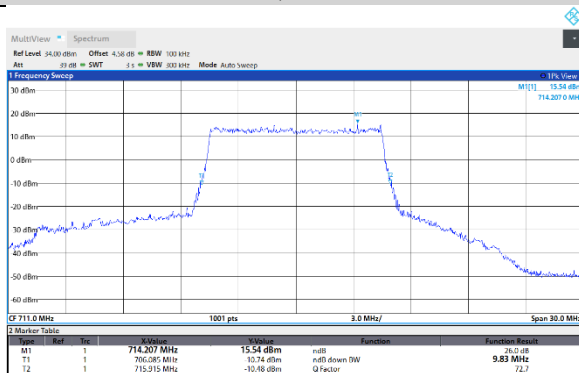
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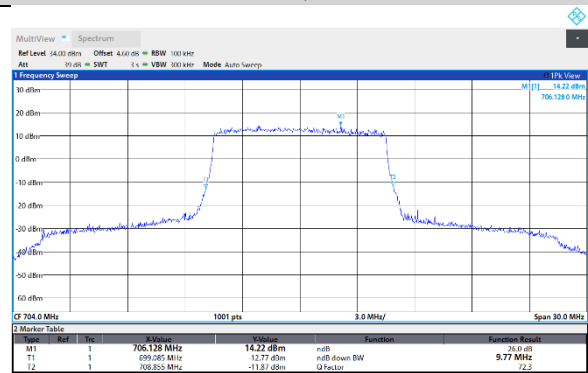
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Band12-10MHz-16QAM-23060-50RB#0



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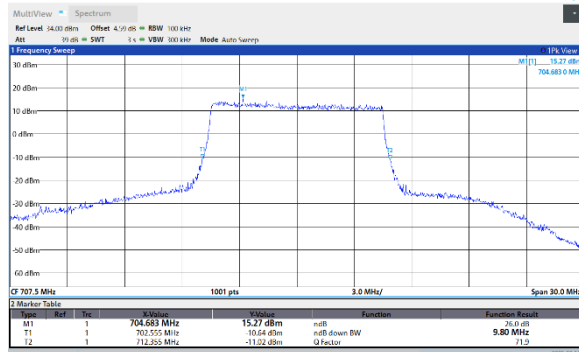


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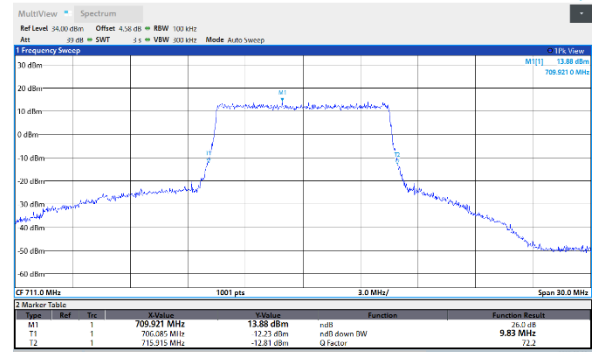


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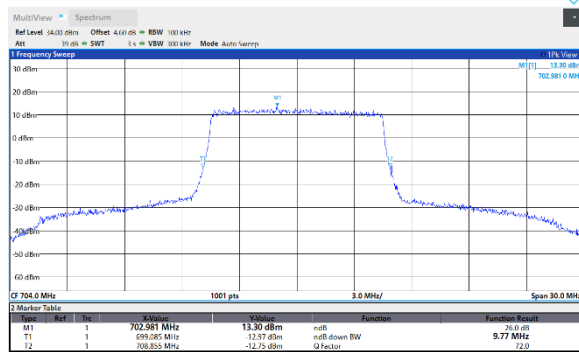
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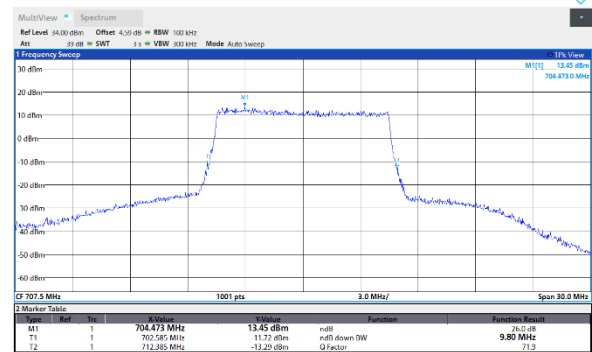
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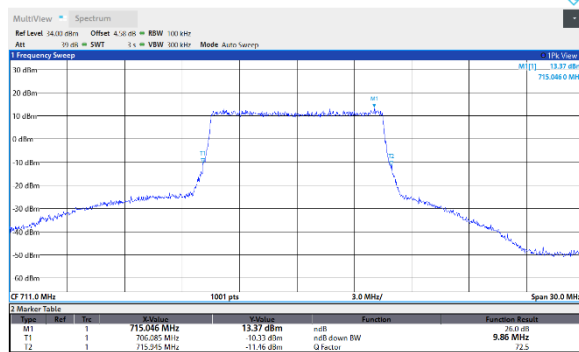
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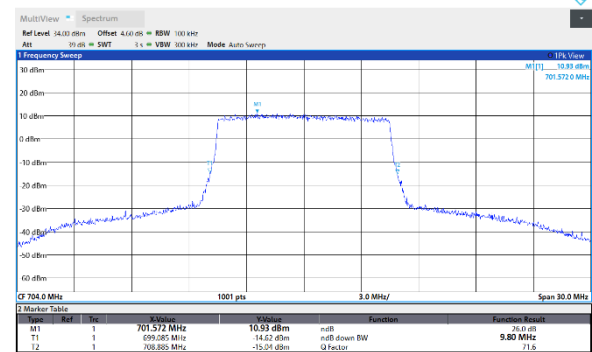
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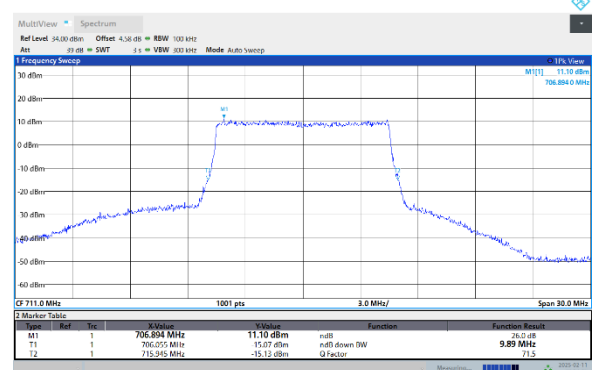
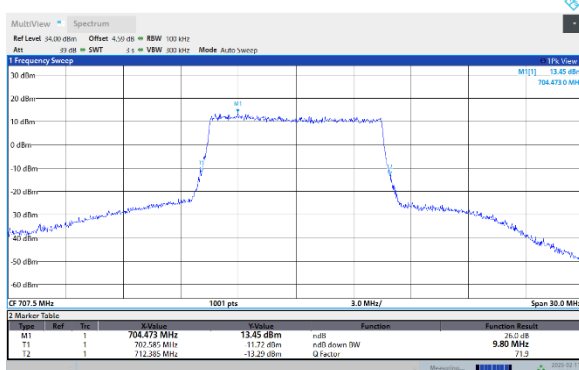
Band12-10MHz-256QAM-23060-50RB#0



Band12-10MHz-256QAM-23060-50RB#0



Band12-10MHz-256QAM-23060-50RB#0





BAND EDGE

Test Result

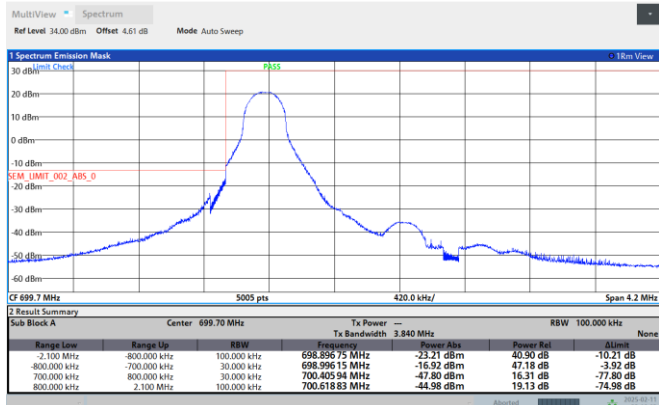
NOTE: Pre-scan QPSK,16QAM,64QAM, 256QAM four modulations modes, only the worst mode and data reflected in the report.

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	See Graph	PASS
Band12	1.4MHz	QPSK	23017	6RB#0	See Graph	PASS
Band12	1.4MHz	QPSK	23173	1RB#5	See Graph	PASS
Band12	1.4MHz	QPSK	23173	6RB#0	See Graph	PASS
Band12	1.4MHz	16QAM	23017	1RB#0	See Graph	PASS
Band12	1.4MHz	16QAM	23017	6RB#0	See Graph	PASS
Band12	1.4MHz	16QAM	23173	1RB#5	See Graph	PASS
Band12	1.4MHz	16QAM	23173	6RB#0	See Graph	PASS
Band12	3MHz	QPSK	23025	1RB#0	See Graph	PASS
Band12	3MHz	QPSK	23025	15RB#0	See Graph	PASS
Band12	3MHz	QPSK	23165	1RB#14	See Graph	PASS
Band12	3MHz	QPSK	23165	15RB#0	See Graph	PASS
Band12	3MHz	16QAM	23025	1RB#0	See Graph	PASS
Band12	3MHz	16QAM	23025	15RB#0	See Graph	PASS
Band12	3MHz	16QAM	23165	1RB#14	See Graph	PASS
Band12	3MHz	16QAM	23165	15RB#0	See Graph	PASS
Band12	5MHz	QPSK	23035	1RB#0	See Graph	PASS
Band12	5MHz	QPSK	23035	25RB#0	See Graph	PASS
Band12	5MHz	QPSK	23155	1RB#24	See Graph	PASS
Band12	5MHz	QPSK	23155	25RB#0	See Graph	PASS
Band12	5MHz	16QAM	23035	1RB#0	See Graph	PASS
Band12	5MHz	16QAM	23035	25RB#0	See Graph	PASS
Band12	5MHz	16QAM	23155	1RB#24	See Graph	PASS
Band12	5MHz	16QAM	23155	25RB#0	See Graph	PASS
Band12	10MHz	QPSK	23060	1RB#0	See Graph	PASS
Band12	10MHz	QPSK	23060	50RB#0	See Graph	PASS
Band12	10MHz	QPSK	23130	1RB#49	See Graph	PASS
Band12	10MHz	QPSK	23130	50RB#0	See Graph	PASS
Band12	10MHz	16QAM	23060	1RB#0	See Graph	PASS
Band12	10MHz	16QAM	23060	50RB#0	See Graph	PASS
Band12	10MHz	16QAM	23130	1RB#49	See Graph	PASS
Band12	10MHz	16QAM	23130	50RB#0	See Graph	PASS

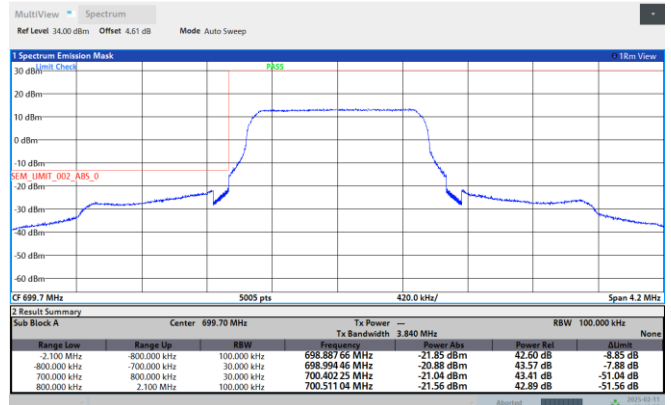


Test Graphs

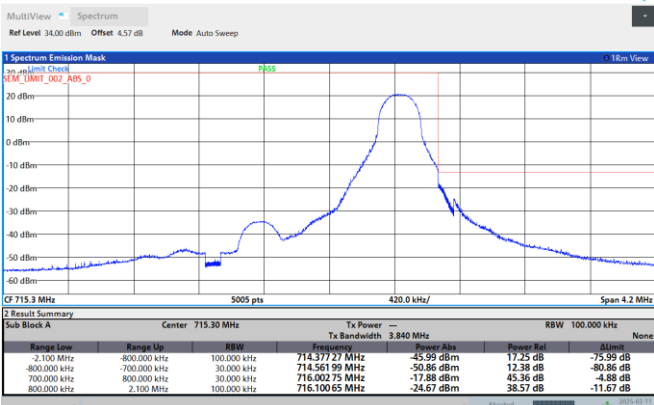
Band12-1.4MHz-QPSK-23017-1RB#0



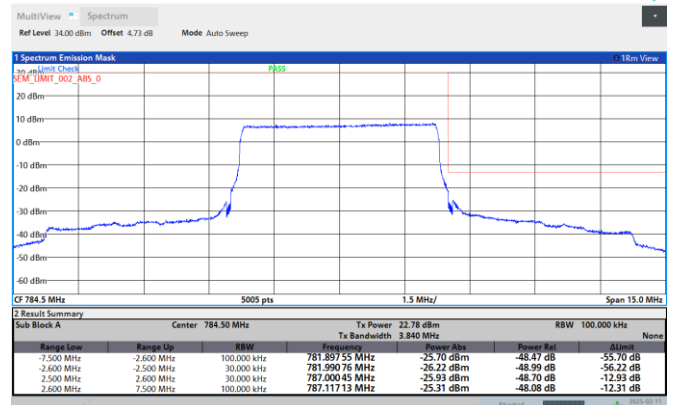
Band12-1.4MHz-QPSK-23017-6RB#0



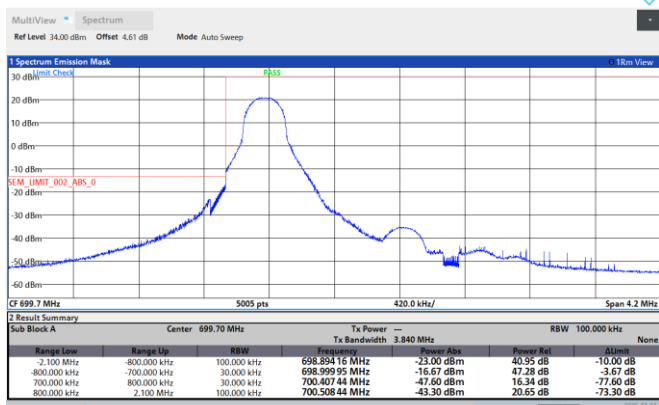
Band12-1.4MHz-QPSK-23173-1RB#5



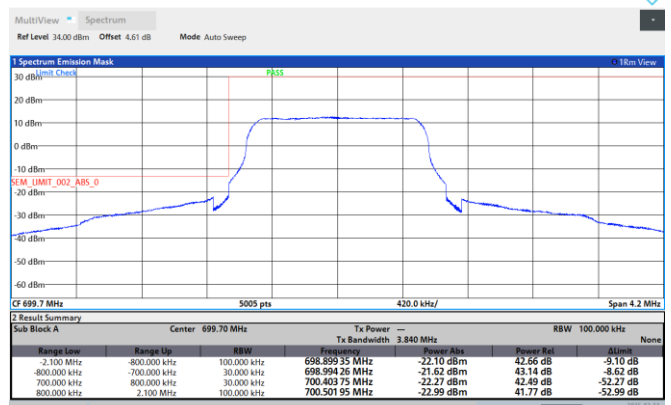
Band12-1.4MHz-QPSK-23173-6RB#0



Band12-1.4MHz-16QAM-23017-1RB#0

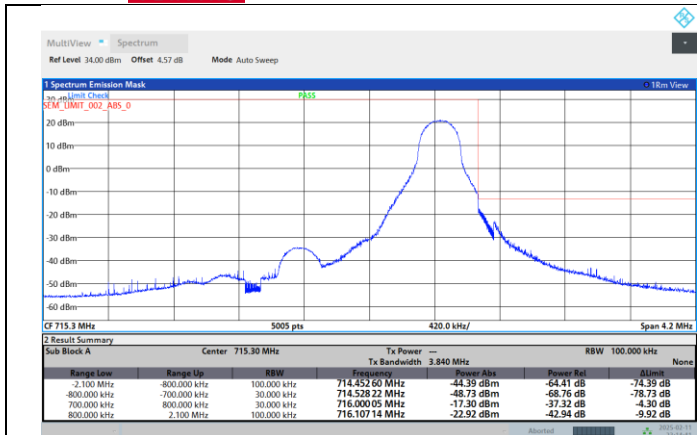


Band12-1.4MHz-16QAM-23017-6RB#0

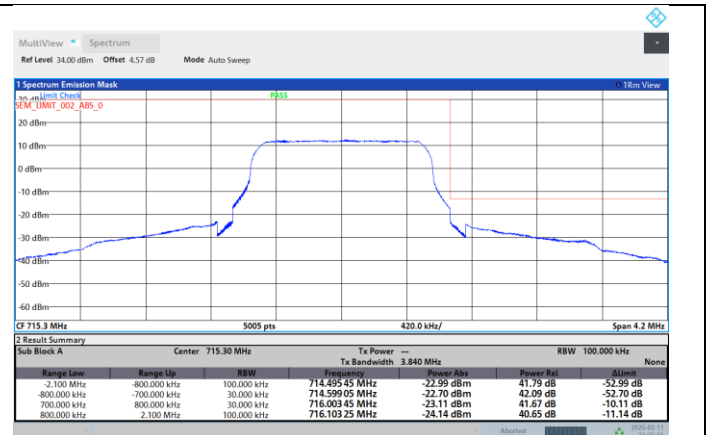


Band12-1.4MHz-16QAM-23173-1RB#5

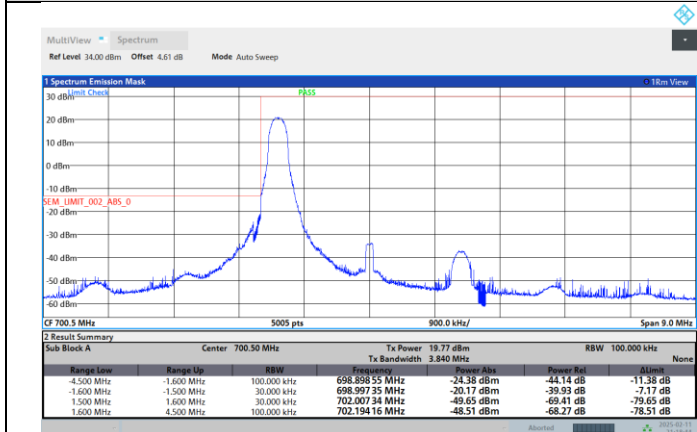
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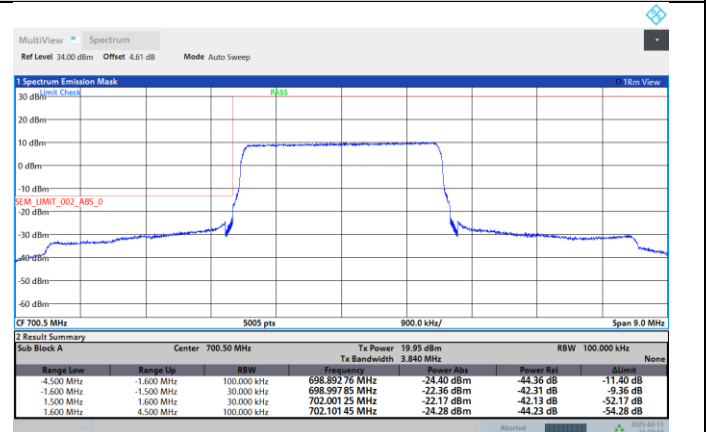
Band12-3MHz-QPSK-23025-1RB#0



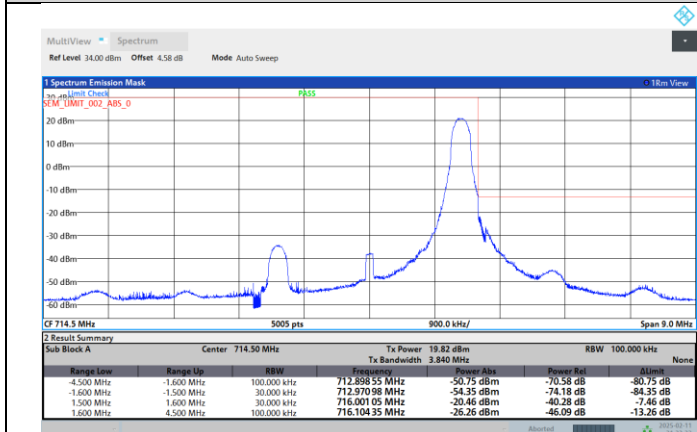
Band12-3MHz-QPSK-23025-15RB#0



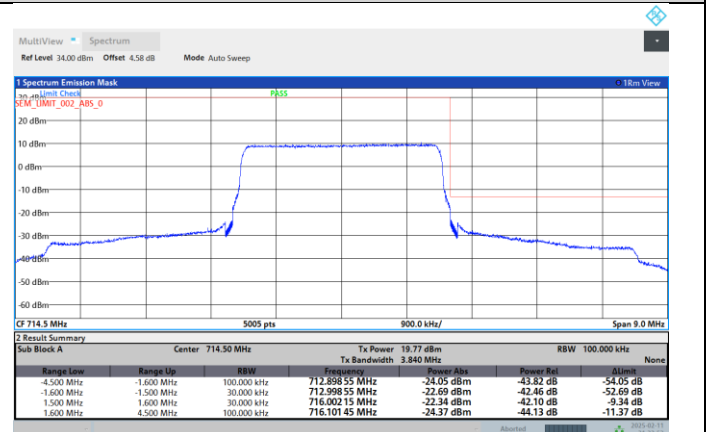
Band12-3MHz-QPSK-23165-1RB#14



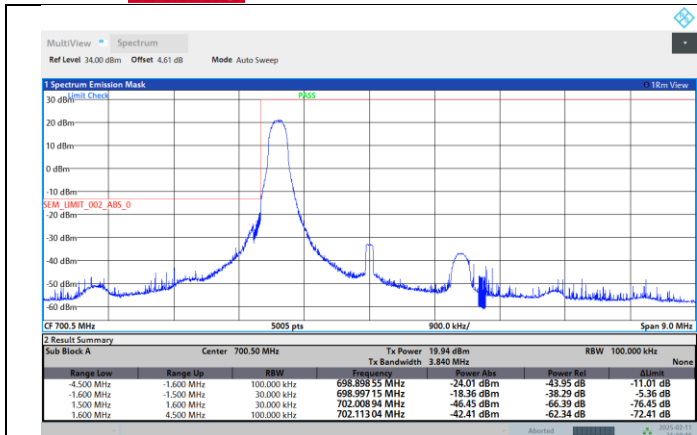
Band12-3MHz-QPSK-23165-15RB#0



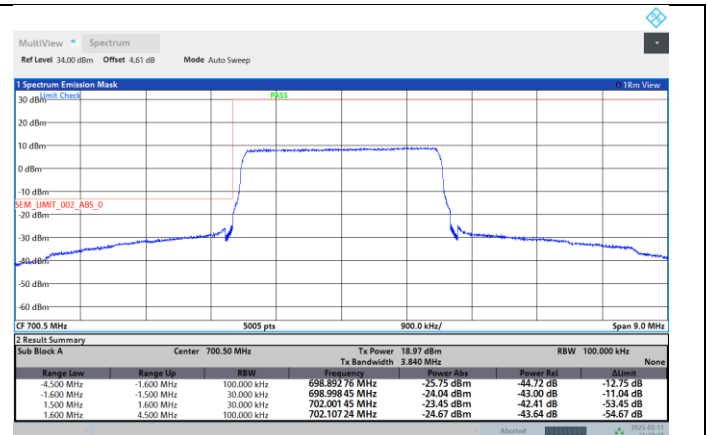
Band12-3MHz-16QAM-23025-1RB#0



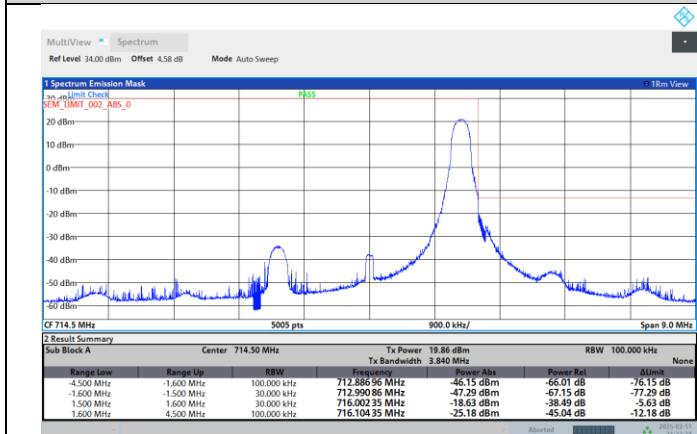
Band12-3MHz-16QAM-23025-15RB#0



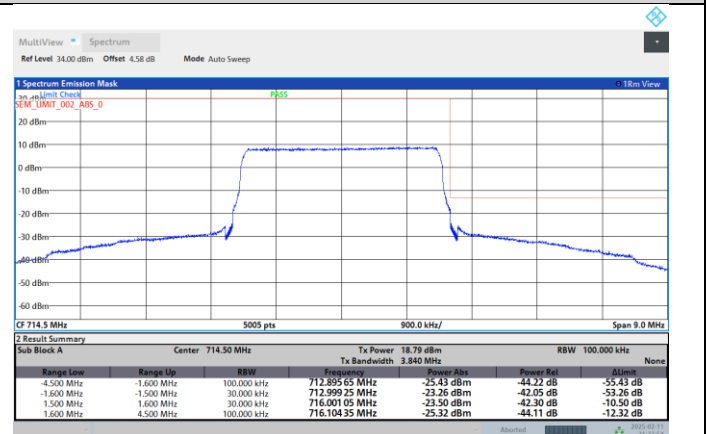
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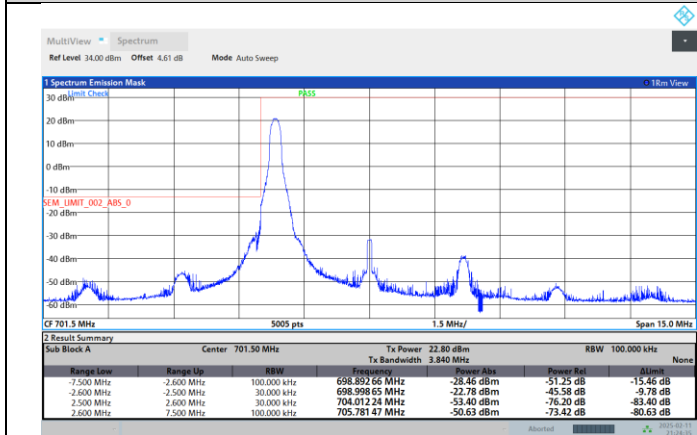
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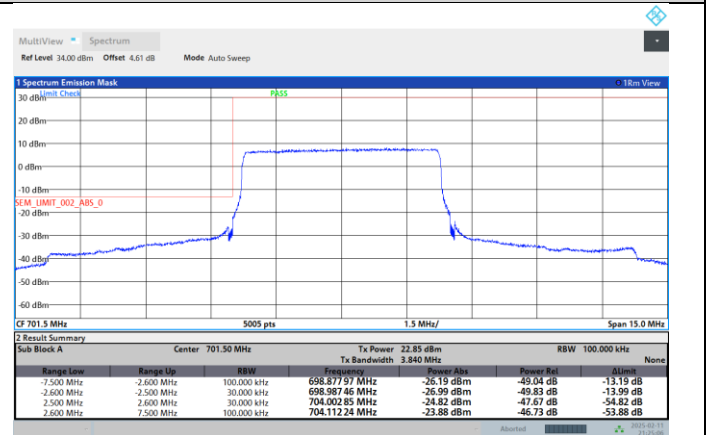
Band12-5MHz-QPSK-23035-1RB#0



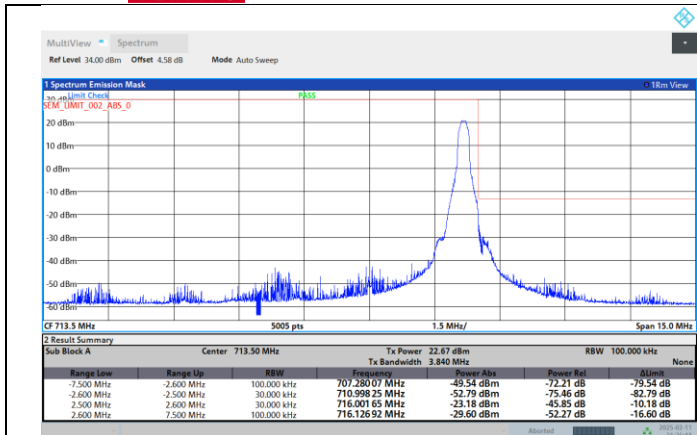
Band12-5MHz-QPSK-23035-25RB#0



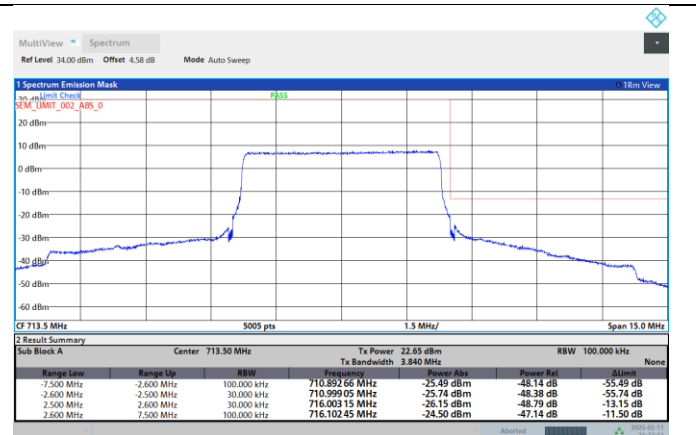
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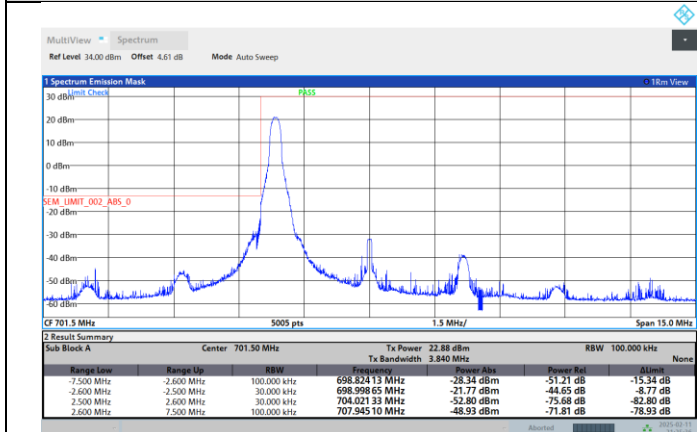
Band12-5MHz-QPSK-23155-25RB#0



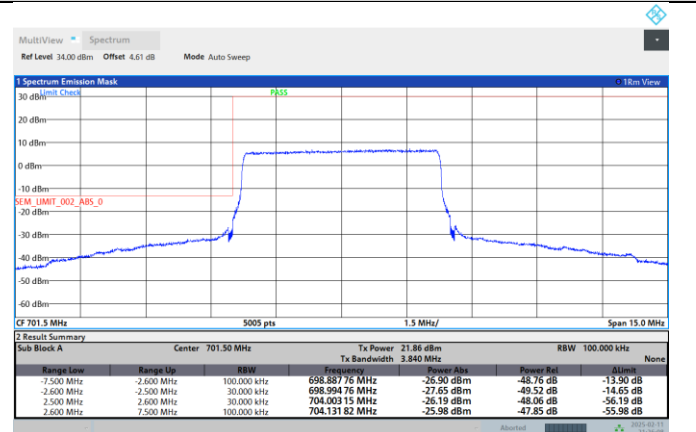
Band12-5MHz-16QAM-23035-1RB#0



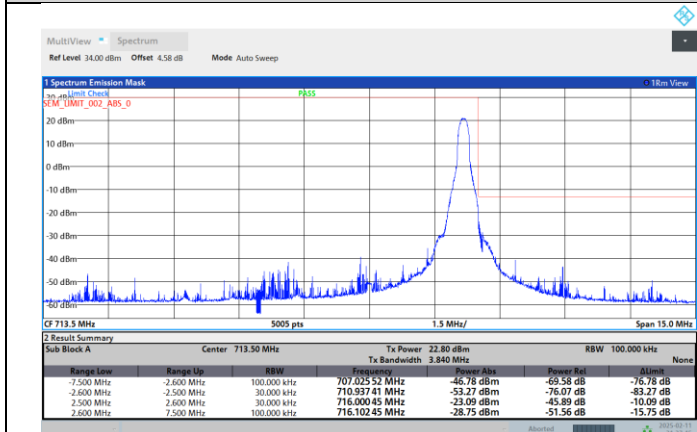
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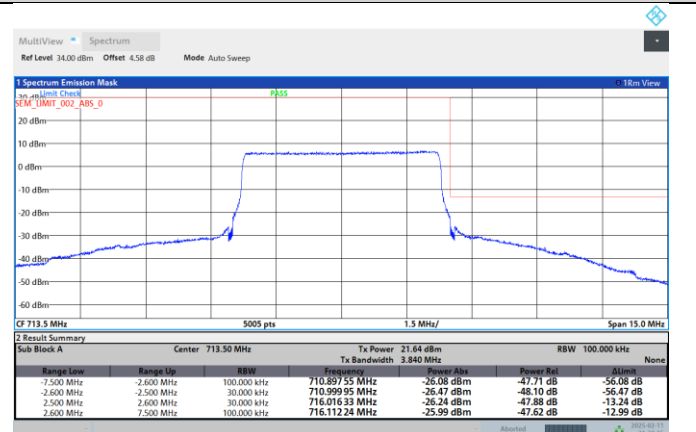
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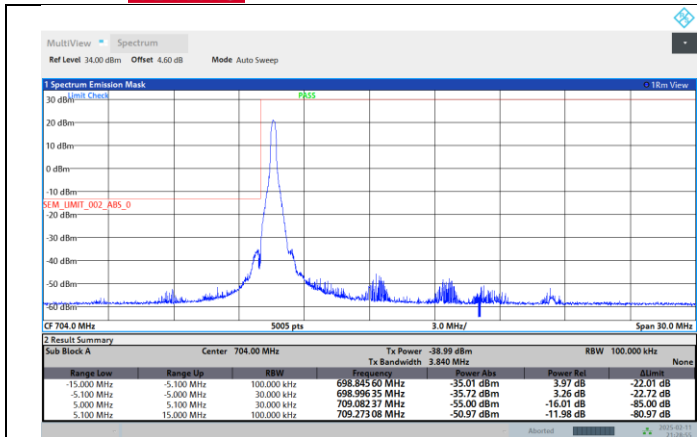
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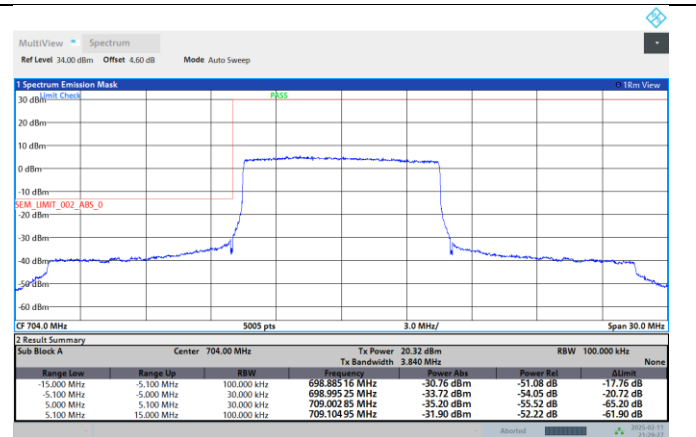
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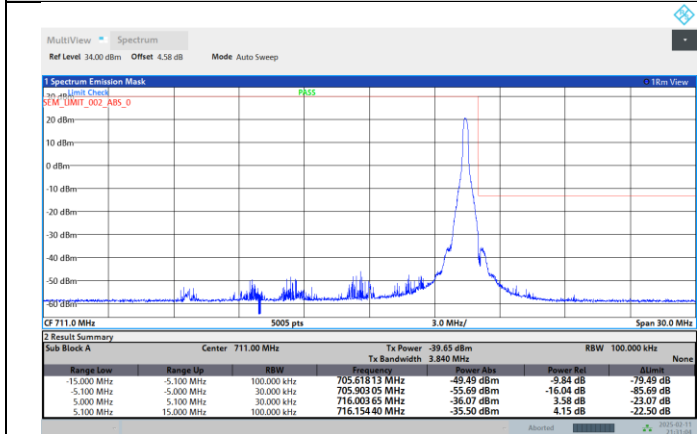
Band12-10MHz-QPSK-23060-50RB#0



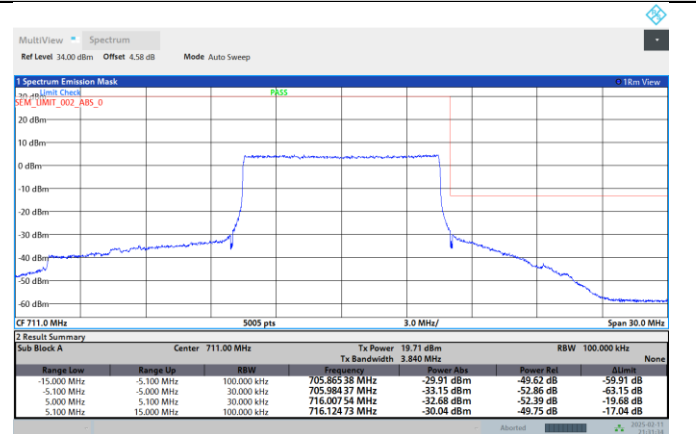
Band12-10MHz-QPSK-23130-1RB#49



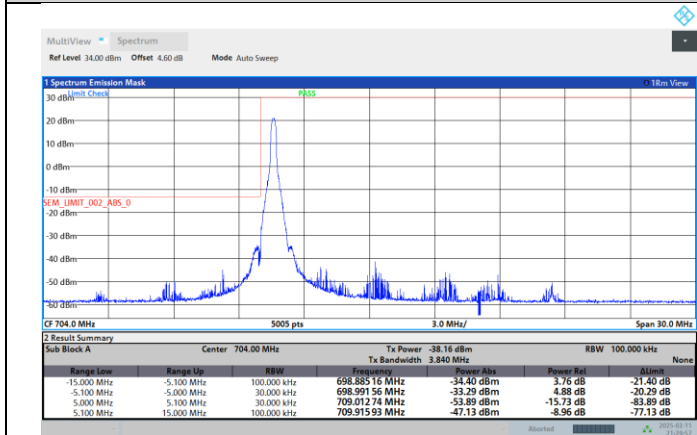
Band12-10MHz-QPSK-23130-50RB#0



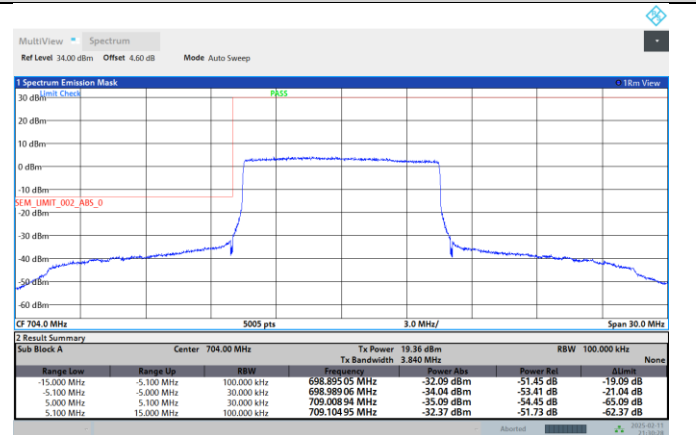
Band12-10MHz-16QAM-23060-1RB#0



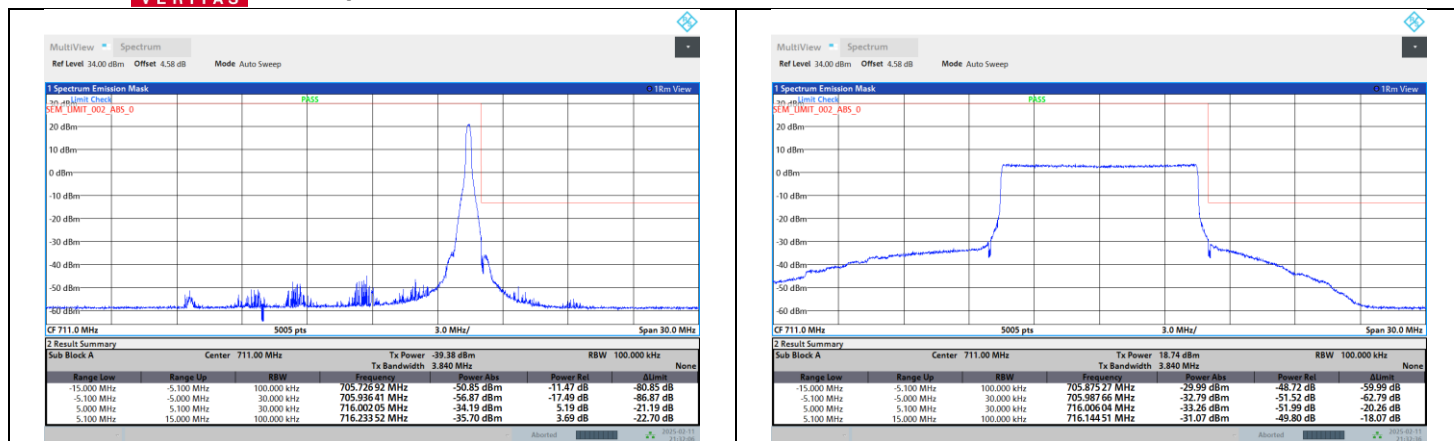
Band12-10MHz-16QAM-23060-50RB#0



Band12-10MHz-16QAM-23130-1RB#49



Band12-10MHz-16QAM-23130-50RB#0





BUREAU VERITAS Test Report No.: PSU-NQN2412090210RF08
CONDUCTED SPURIOUS EMISSION

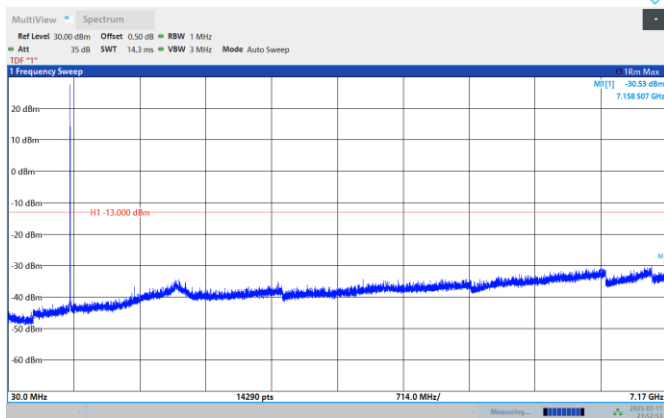
Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band12	1.4MHz	QPSK	23017	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	1.4MHz	QPSK	23095	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	1.4MHz	QPSK	23173	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	3MHz	QPSK	23025	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	3MHz	QPSK	23095	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	3MHz	QPSK	23165	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	5MHz	QPSK	23035	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	5MHz	QPSK	23095	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	5MHz	QPSK	23155	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	10MHz	QPSK	23060	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	10MHz	QPSK	23095	1RB#0	Range:30~7170MHz	See Graph	PASS
Band12	10MHz	QPSK	23130	1RB#0	Range:30~7170MHz	See Graph	PASS

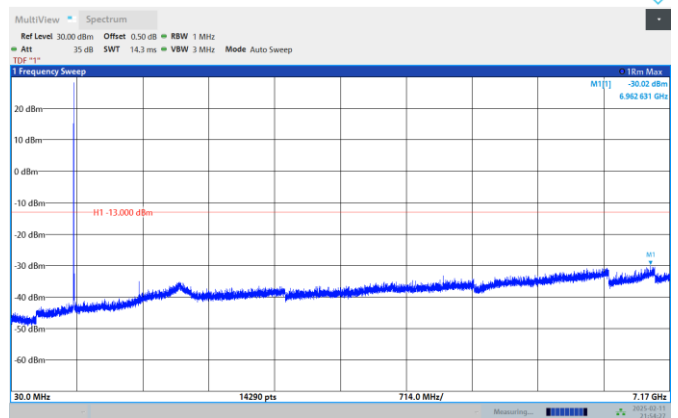


Test Graphs

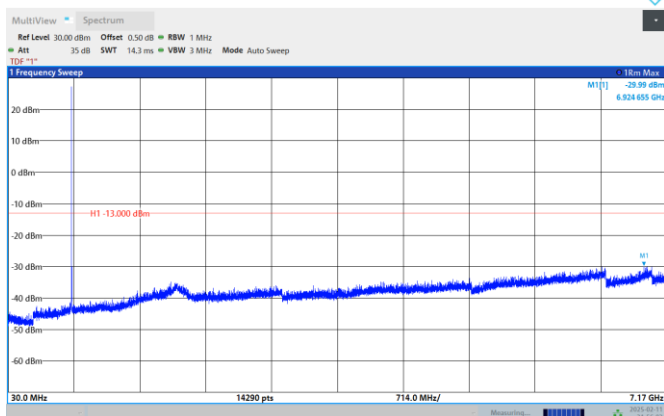
Band12-1.4MHz-QPSK-23017-1RB#0-Range:30~7160MHz



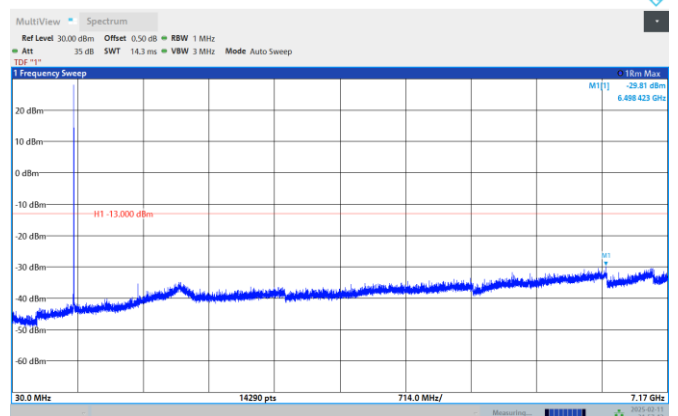
Band12-1.4MHz-QPSK-23095-1RB#0-Range:30~7160MHz



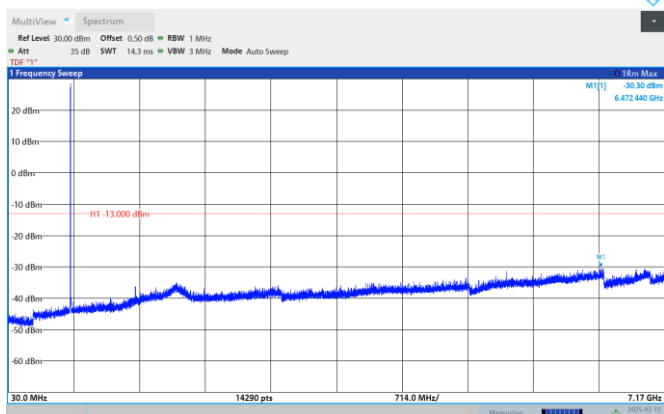
Band12-1.4MHz-QPSK-23173-1RB#0-Range:30~7160MHz



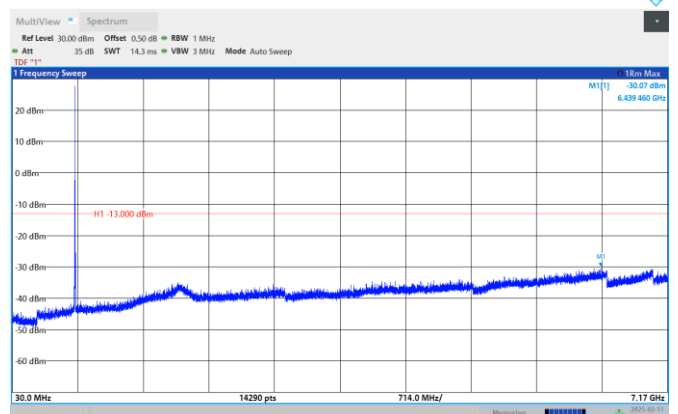
Band12-3MHz-QPSK-23025-1RB#0-Range:30~7160MHz



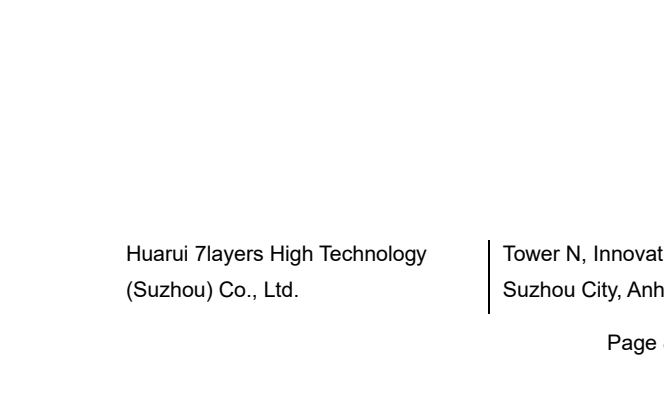
Band12-3MHz-QPSK-23095-1RB#0-Range:30~7160MHz



Band12-3MHz-QPSK-23165-1RB#0-Range:30~7160MHz

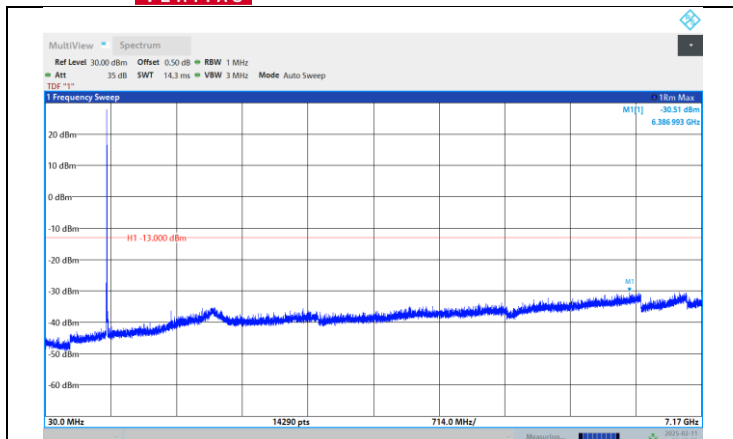


Band12-5MHz-QPSK-23035-1RB#0-Range:30~7160MHz

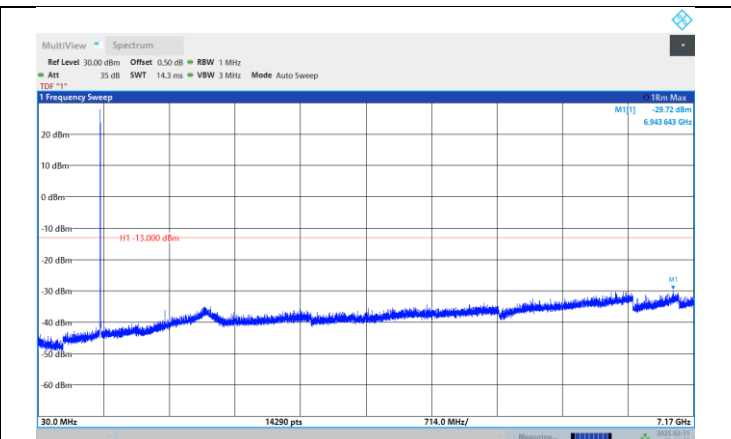


Band12-5MHz-QPSK-23095-1RB#0-Range:30~7160MHz

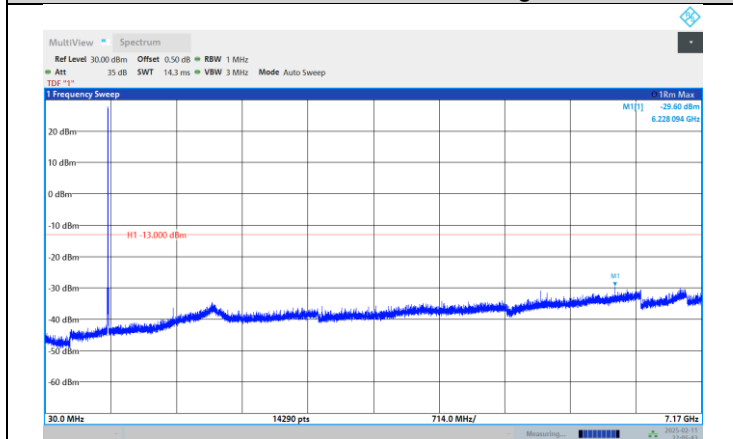




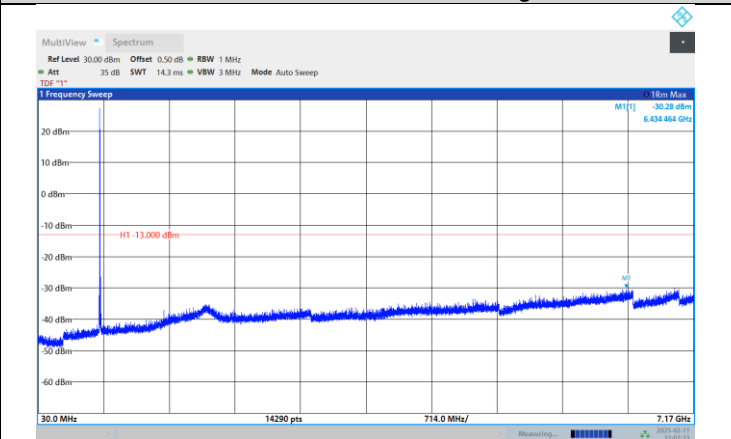
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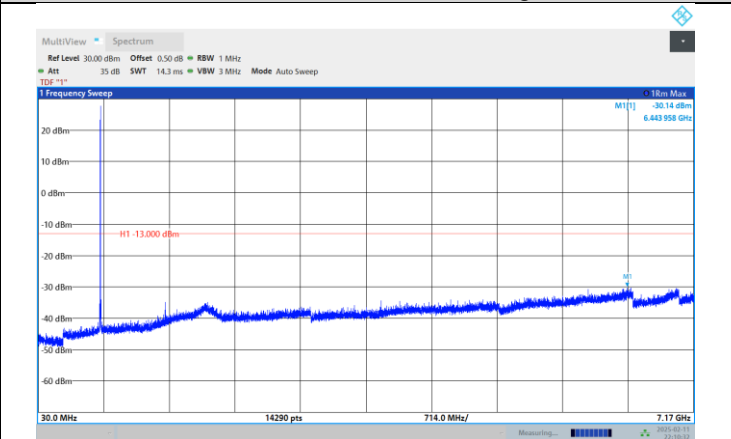
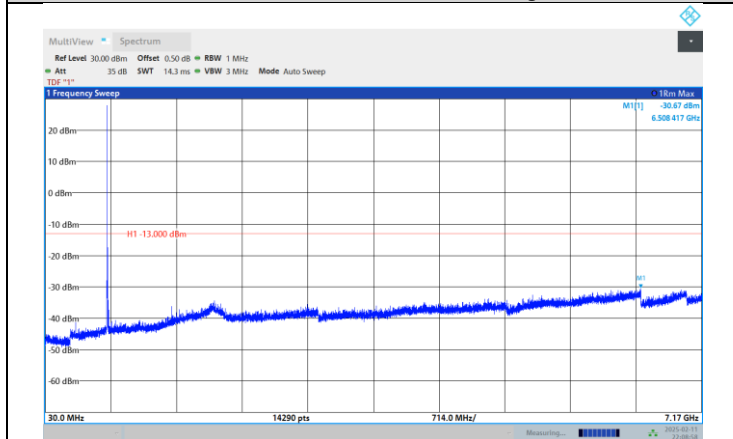
Band12-10MHz-QPSK-23060-1RB#0-Range:30~7160MHz



Band12-10MHz-QPSK-23095-1RB#0-Range:30~7160MHz



Band12-10MHz-QPSK-23130-1RB#0-Range:30~7160MHz





FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	LV	NT	-1.40	-0.0020	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	NT	11.91	0.0169	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	HV	NT	10.63	0.0151	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	LV	NT	-2.90	-0.0041	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	NT	-10.31	-0.0146	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	HV	NT	14.23	0.0201	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	LV	NT	5.99	0.0084	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	NT	7.94	0.0112	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	HV	NT	5.15	0.0072	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configuration	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band12	10MHz	QPSK	23060	50RB#0	NV	-30	17.90	0.0254	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-20	11.90	0.0169	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	-10	-4.80	-0.0068	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	0	0.80	0.0011	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	10	-21.60	-0.0307	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	20	5.60	0.0080	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	30	24.70	0.0351	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	40	-1.50	-0.0021	±2.5	PASS
Band12	10MHz	QPSK	23060	50RB#0	NV	50	24.20	0.0344	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-1.70	-0.0024	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	19.70	0.0278	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	-4.30	-0.0061	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	3.00	0.0042	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	18.90	0.0267	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	21.70	0.0307	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	3.30	0.0047	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	-15.80	-0.0223	±2.5	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	-20.70	-0.0293	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-30	-0.50	-0.0007	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-20	18.70	0.0263	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	-10	-21.20	-0.0298	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	0	-16.50	-0.0232	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	10	24.90	0.0350	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	20	13.20	0.0186	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	30	-13.90	-0.0195	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	40	1.20	0.0017	±2.5	PASS
Band12	10MHz	QPSK	23130	50RB#0	NV	50	1.80	0.0025	±2.5	PASS

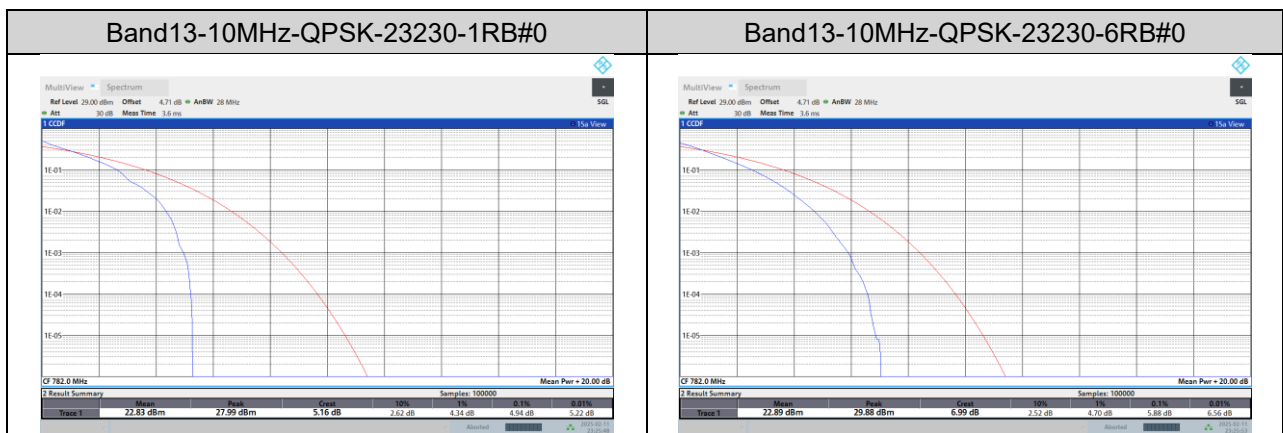


PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	1RB#0	4.94	13	PASS
Band13	10MHz	QPSK	23230	50RB#0	5.88	13	PASS

Test Graphs





BUREAU VERITAS Test Report No.: PSU-NQN2412090210RF08
26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

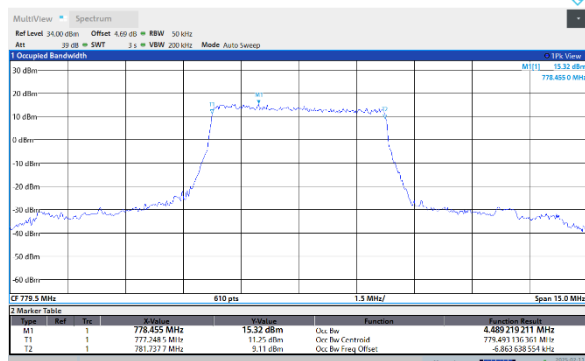
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.489	5.02	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.502	5.04	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.501	5.00	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.491	5.02	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.509	5.05	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.490	5.02	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.501	5.04	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.506	4.99	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.496	5.05	PASS
Band13	5MHz	256QAM	23205	25RB#0	4.481	4.97	PASS
Band13	5MHz	256QAM	23230	25RB#0	4.501	5.05	PASS
Band13	5MHz	256QAM	23255	25RB#0	4.501	5.02	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.995	9.83	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.988	9.86	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.997	9.80	PASS
Band13	10MHz	256QAM	23230	50RB#0	8.998	9.80	PASS



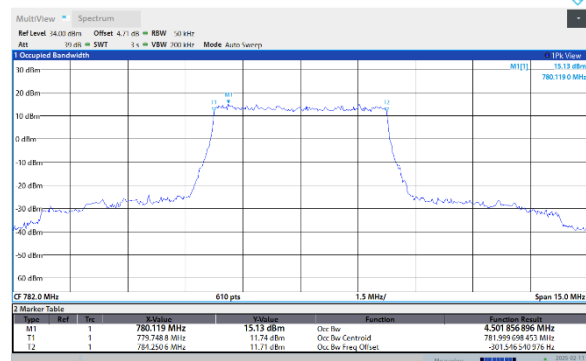
Test Graphs

Occupied Bandwidth

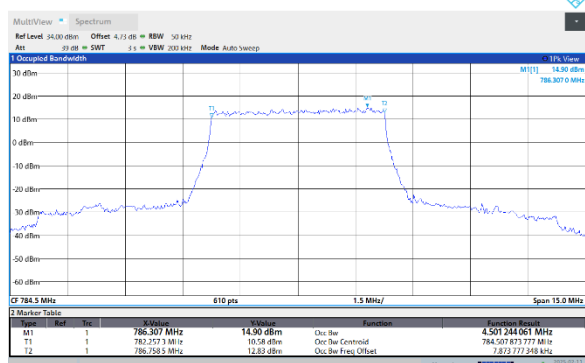
Band13-5MHz-QPSK-23205-25RB#0



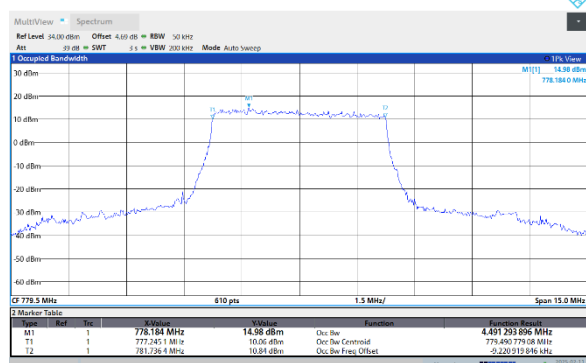
Band13-5MHz-QPSK-23230-25RB#0



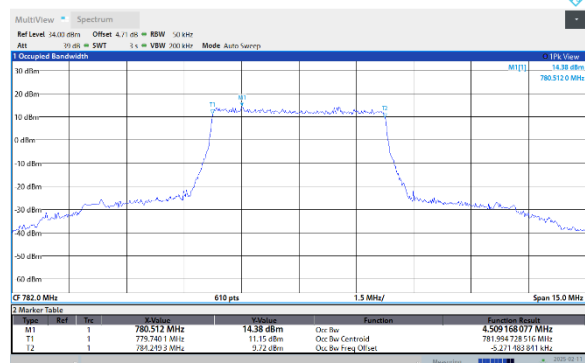
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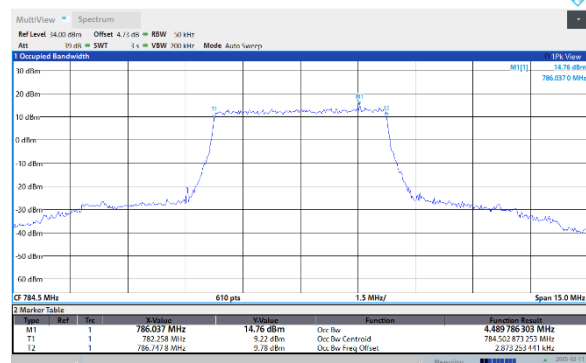
Band13-5MHz-16QAM-23205-25RB#0



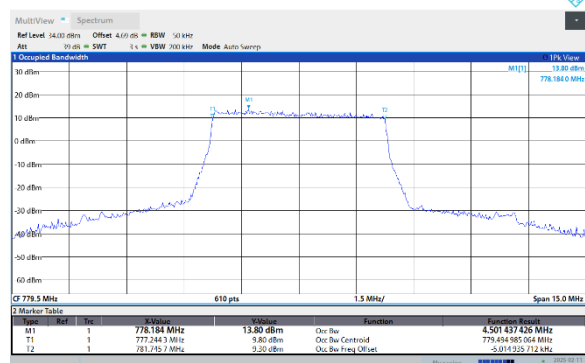
Band13-5MHz-16QAM-23230-25RB#0



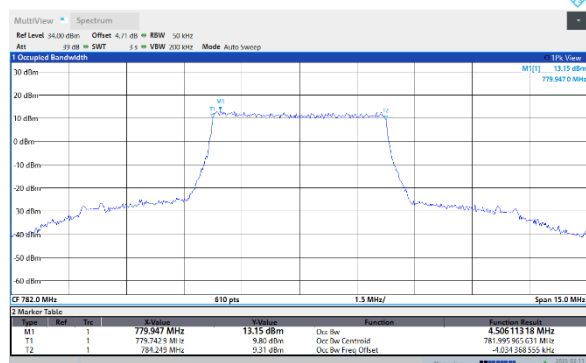
Band13-5MHz-16QAM-23255-25RB#0



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



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

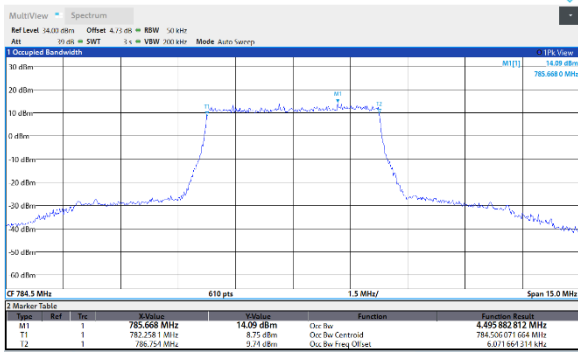




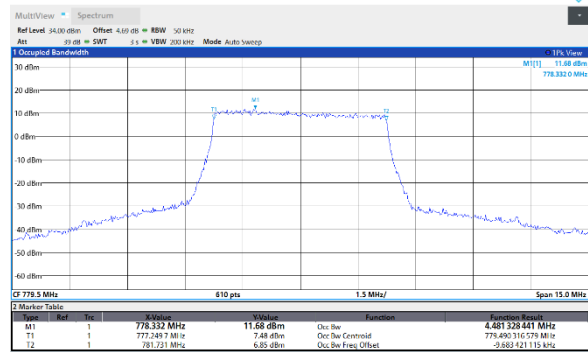
BUREAU
VERITAS

Test Report No.: PSU-NQN2412090210RF08

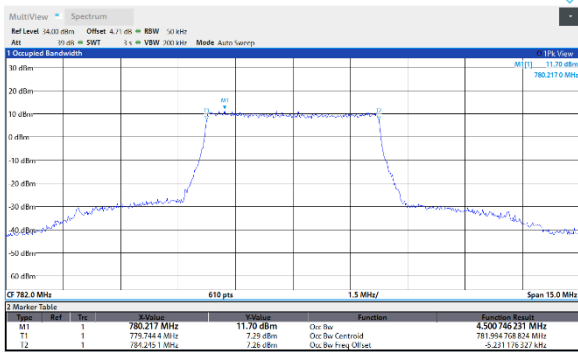
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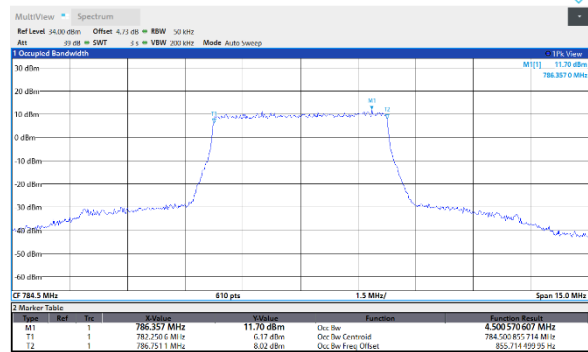
Band13-5MHz-256QAM-23205-25RB#0



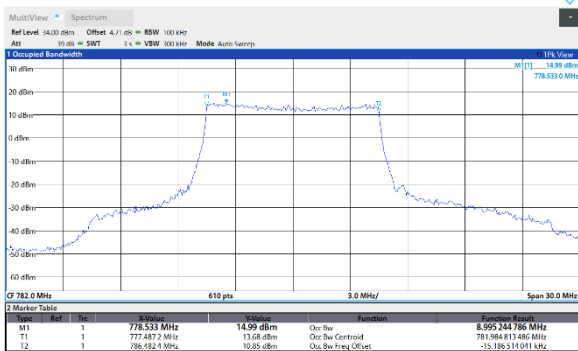
Band13-5MHz-256QAM-23230-25RB#0



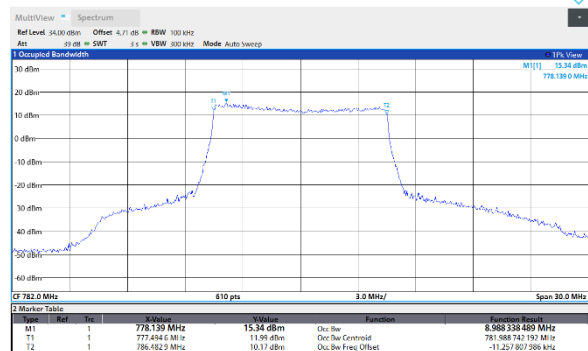
Band13-5MHz-256QAM-23255-25RB#0



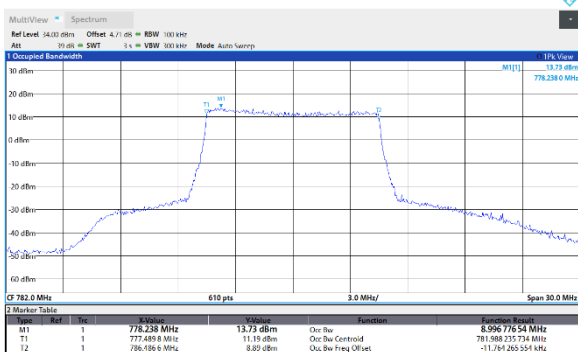
Band13-10MHz-QPSK-23230-50RB#0



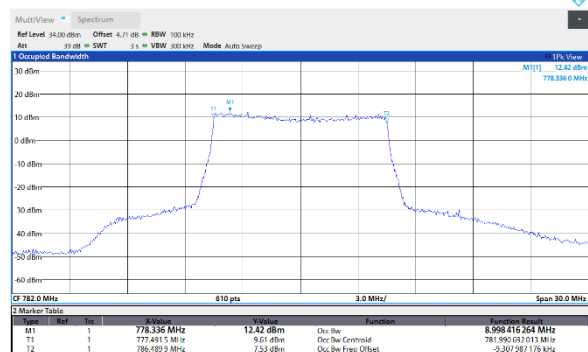
Band13-10MHz-16QAM-23230-50RB#0



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



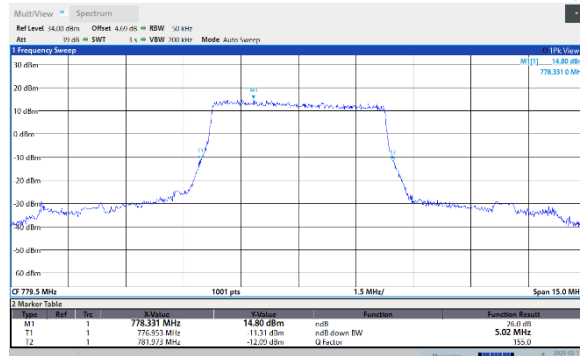
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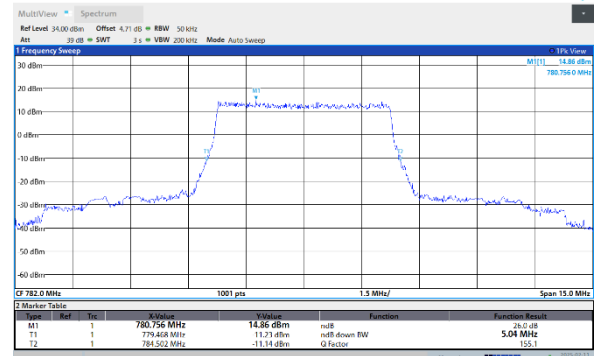


26dB Bandwidth

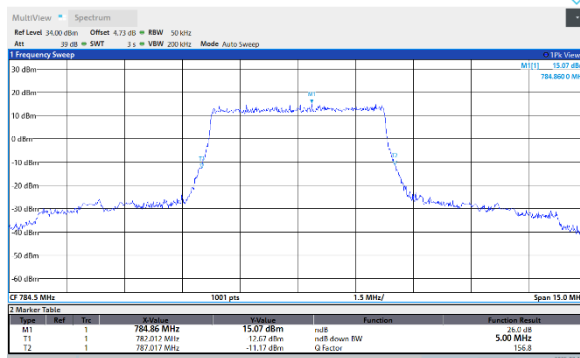
Band13-5MHz-QPSK-23205-25RB#0



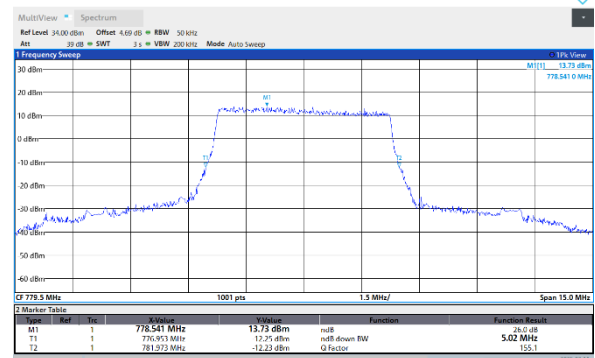
Band13-5MHz-QPSK-23230-25RB#0



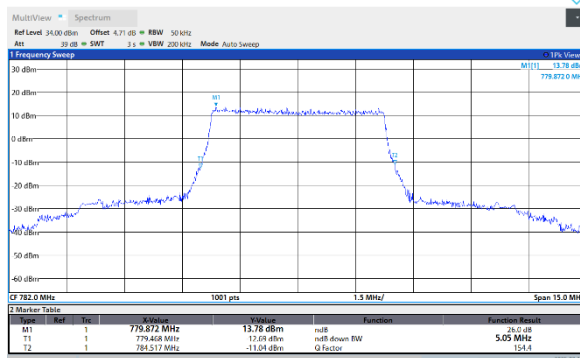
Band13-5MHz-QPSK-23255-25RB#0



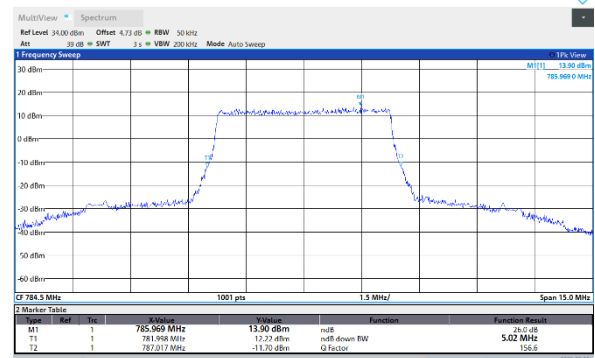
Band13-5MHz-16QAM-23205-25RB#0



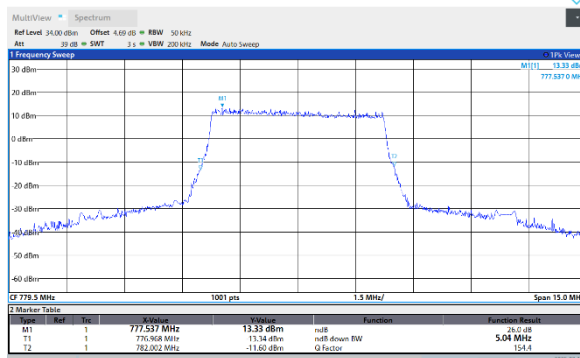
Band13-5MHz-16QAM-23230-25RB#0



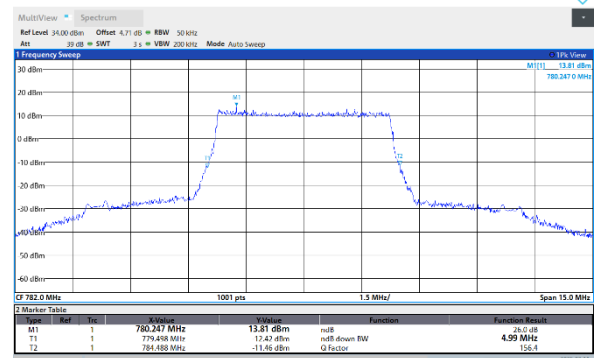
Band13-5MHz-16QAM-23255-25RB#0



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



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



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

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