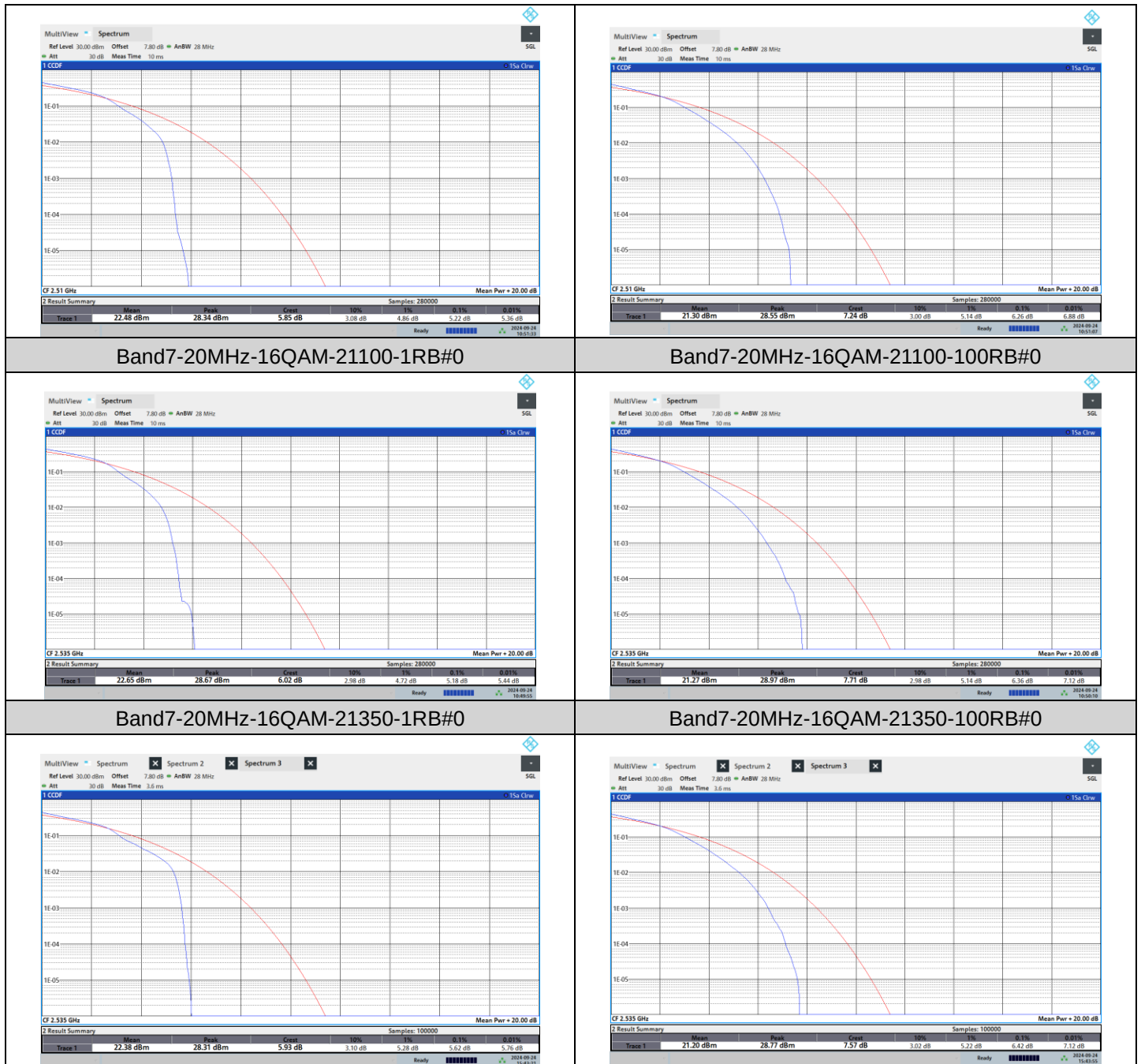




Test Report No.: PSU-QSU2306120115RF05



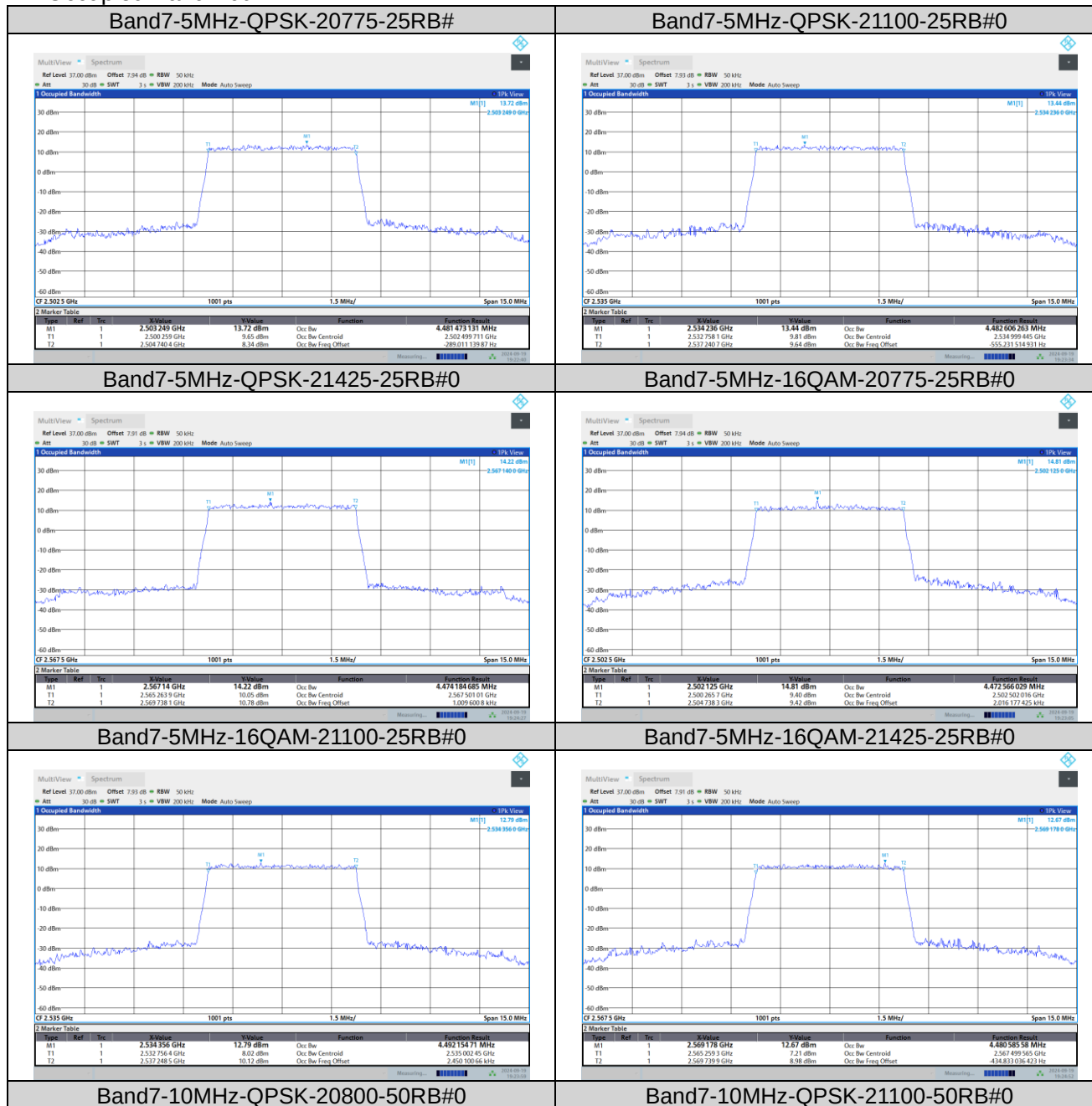
26DB BANDWIDTH AND OCCUPIED BANDWIDTH

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band7	5MHz	QPSK	20775	25RB#0	4.481	4.92	PASS
Band7	5MHz	QPSK	21100	25RB#0	4.483	4.92	PASS
Band7	5MHz	QPSK	21425	25RB#0	4.474	4.88	PASS
Band7	5MHz	16QAM	20775	25RB#0	4.473	4.88	PASS
Band7	5MHz	16QAM	21100	25RB#0	4.492	4.92	PASS
Band7	5MHz	16QAM	21425	25RB#0	4.481	4.92	PASS
Band7	10MHz	QPSK	20800	50RB#0	8.961	9.71	PASS
Band7	10MHz	QPSK	21100	50RB#0	8.946	9.74	PASS
Band7	10MHz	QPSK	21400	50RB#0	8.956	9.77	PASS
Band7	10MHz	16QAM	20800	50RB#0	8.943	9.71	PASS
Band7	10MHz	16QAM	21100	50RB#0	8.960	9.74	PASS
Band7	10MHz	16QAM	21400	50RB#0	8.953	9.86	PASS
Band7	15MHz	QPSK	20825	75RB#0	13.459	14.79	PASS
Band7	15MHz	QPSK	21100	75RB#0	13.411	14.79	PASS
Band7	15MHz	QPSK	21375	75RB#0	13.454	14.84	PASS
Band7	15MHz	16QAM	20825	75RB#0	13.451	14.79	PASS
Band7	15MHz	16QAM	21100	75RB#0	13.470	14.97	PASS
Band7	15MHz	16QAM	21375	75RB#0	13.460	14.79	PASS
Band7	20MHz	QPSK	20850	100RB#0	17.885	19.24	PASS
Band7	20MHz	QPSK	21100	100RB#0	17.899	19.36	PASS
Band7	20MHz	QPSK	21350	100RB#0	17.963	19.60	PASS
Band7	20MHz	16QAM	20850	100RB#0	17.924	19.42	PASS
Band7	20MHz	16QAM	21100	100RB#0	17.930	19.54	PASS
Band7	20MHz	16QAM	21350	100RB#0	17.928	19.48	PASS

Test Graphs

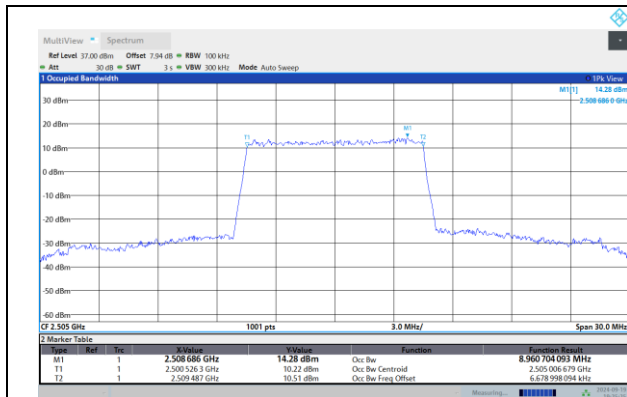
Occupied Bandwidth



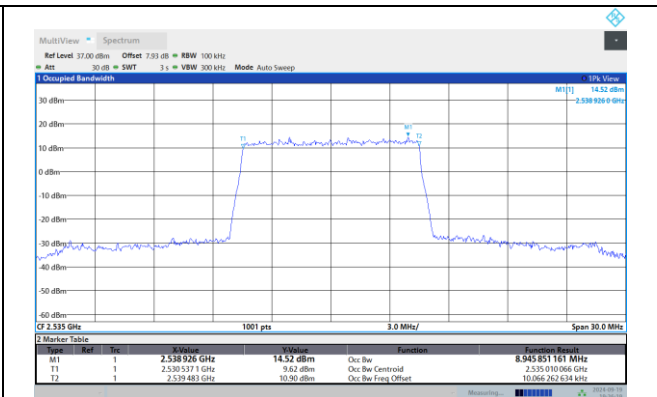


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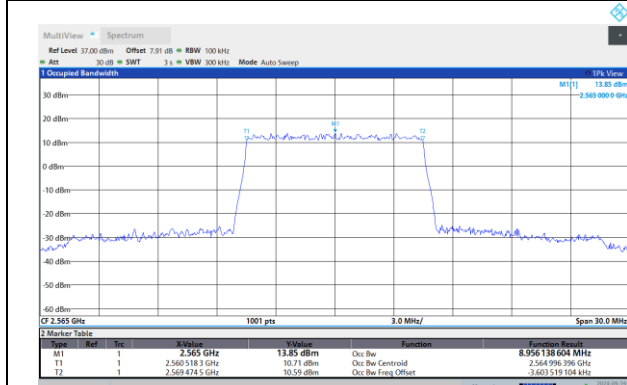
Test Report No.: PSU-QSU2306120115RF05



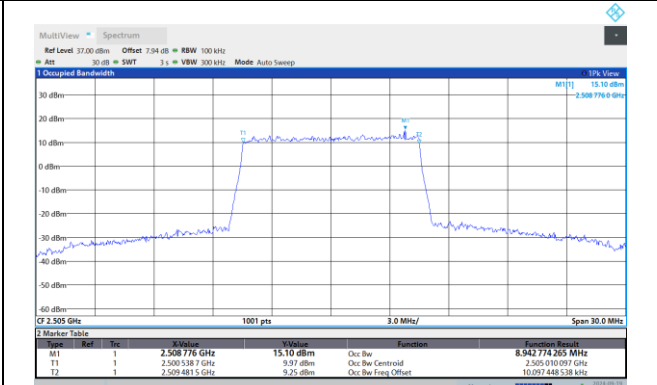
Band7-10MHz-QPSK-21400-50RB#0



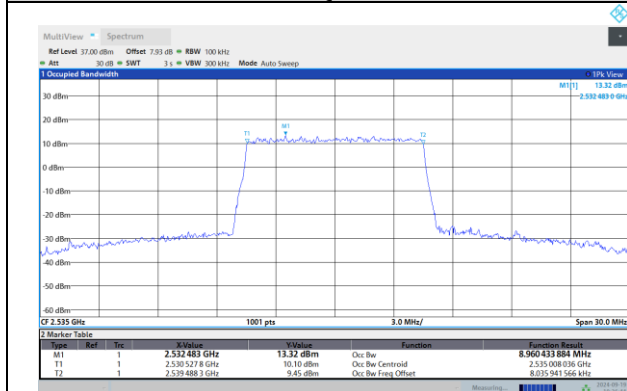
Band7-10MHz-16QAM-20800-50RB#0



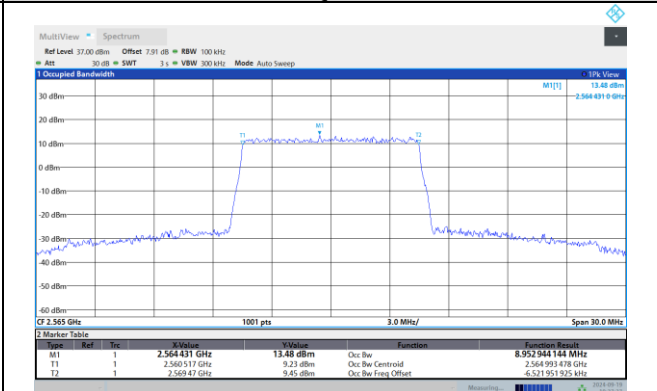
Band7-10MHz-16QAM-21100-50RB#0



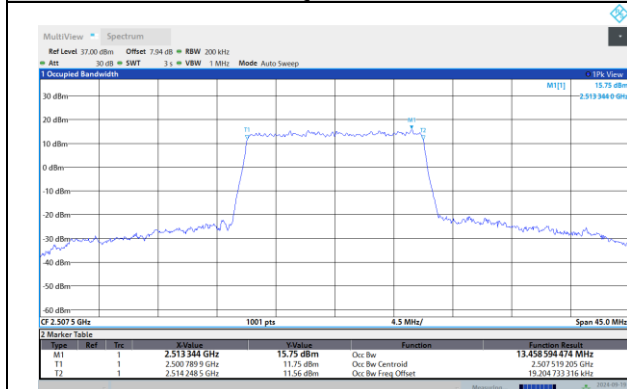
Band7-10MHz-16QAM-21400-50RB#0



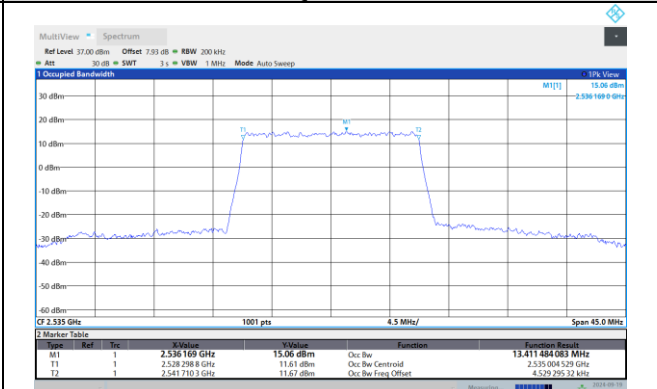
Band7-15MHz-QPSK-20825-75RB#0



Band7-15MHz-QPSK-21100-75RB#0



Band7-15MHz-QPSK-21375-75RB#0

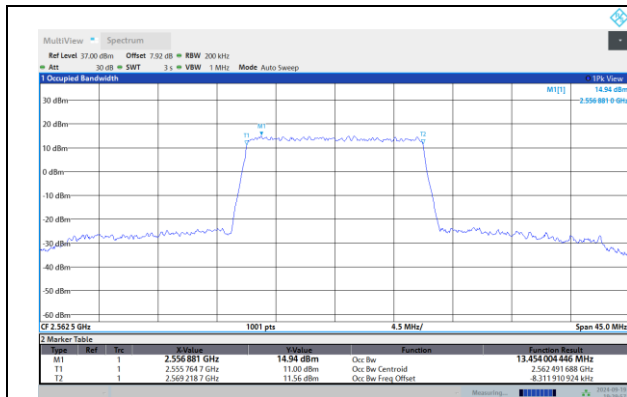


Band7-15MHz-16QAM-20825-75RB#0

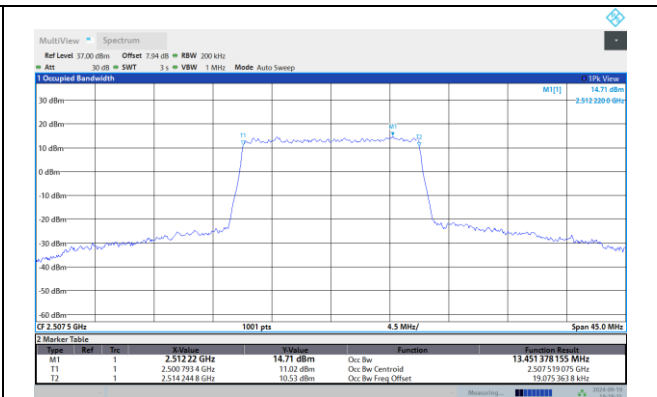


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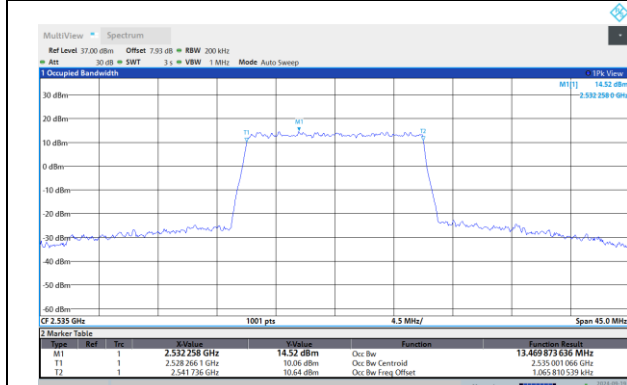
Test Report No.: PSU-QSU2306120115RF05



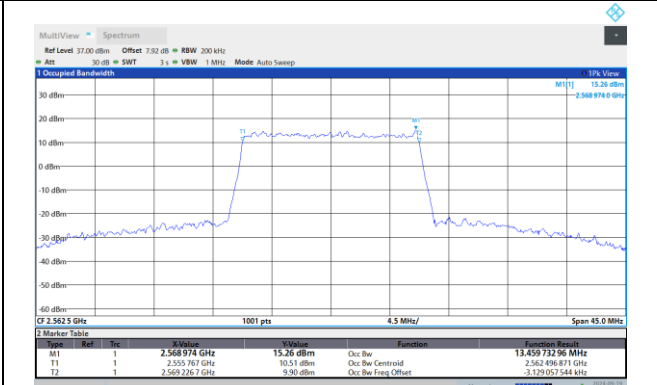
Band7-15MHz-16QAM-21100-75RB#0



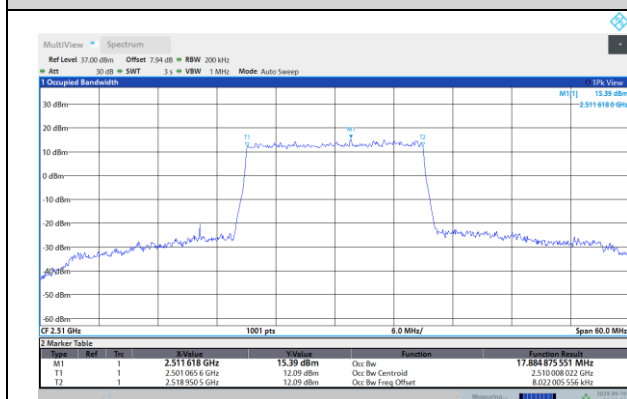
Band7-15MHz-16QAM-21375-75RB#0



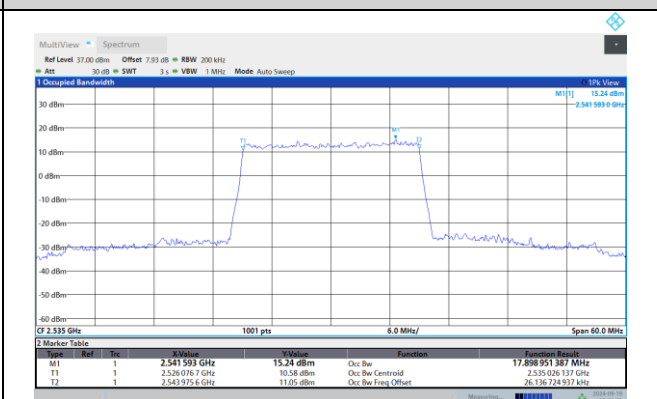
Band7-20MHz-QPSK-20850-100RB#0



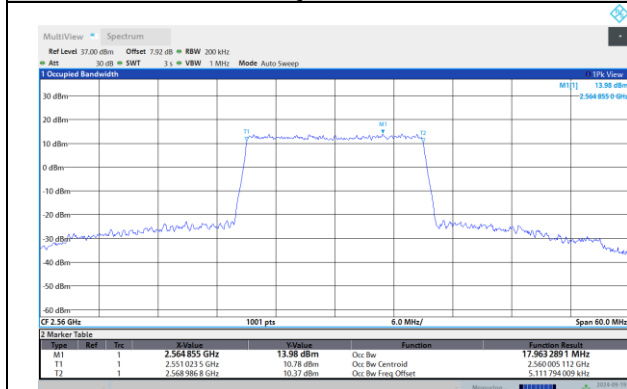
Band7-20MHz-QPSK-21100-100RB#0



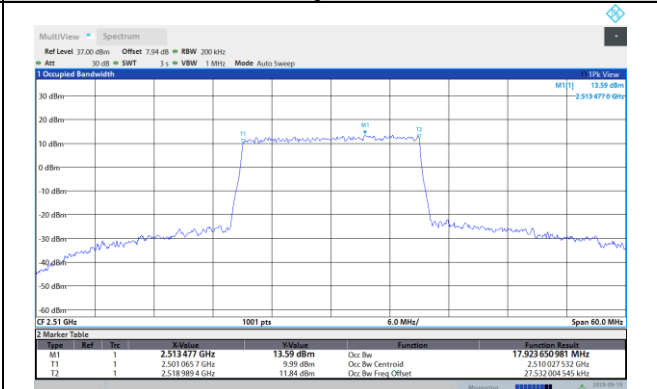
Band7-20MHz-QPSK-21350-100RB#0



Band7-20MHz-16QAM-20850-100RB#0



Band7-20MHz-16QAM-21100-100RB#0

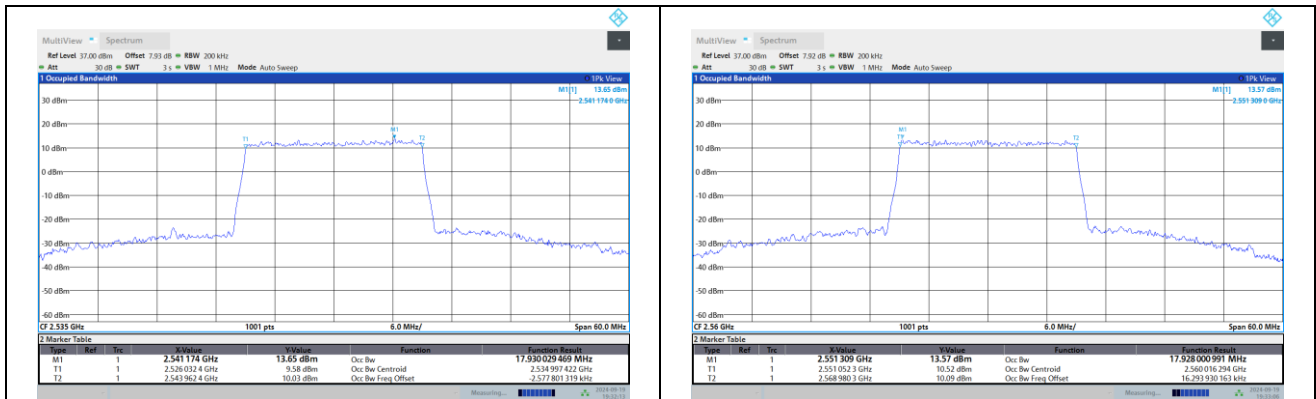


Band7-20MHz-16QAM-21350-100RB#0

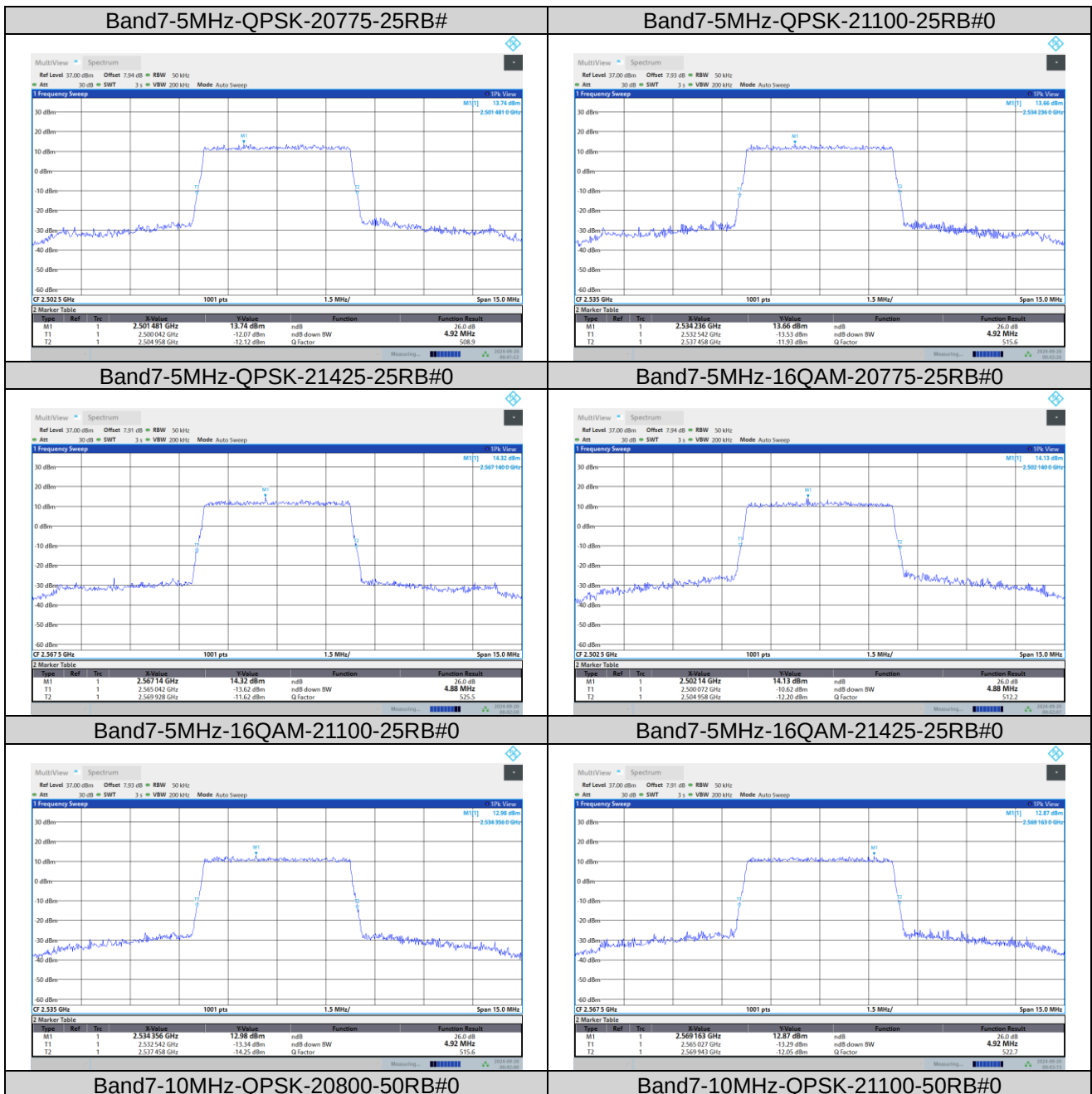


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Test Report No.: PSU-QSU2306120115RF05



26dB Bandwidth



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

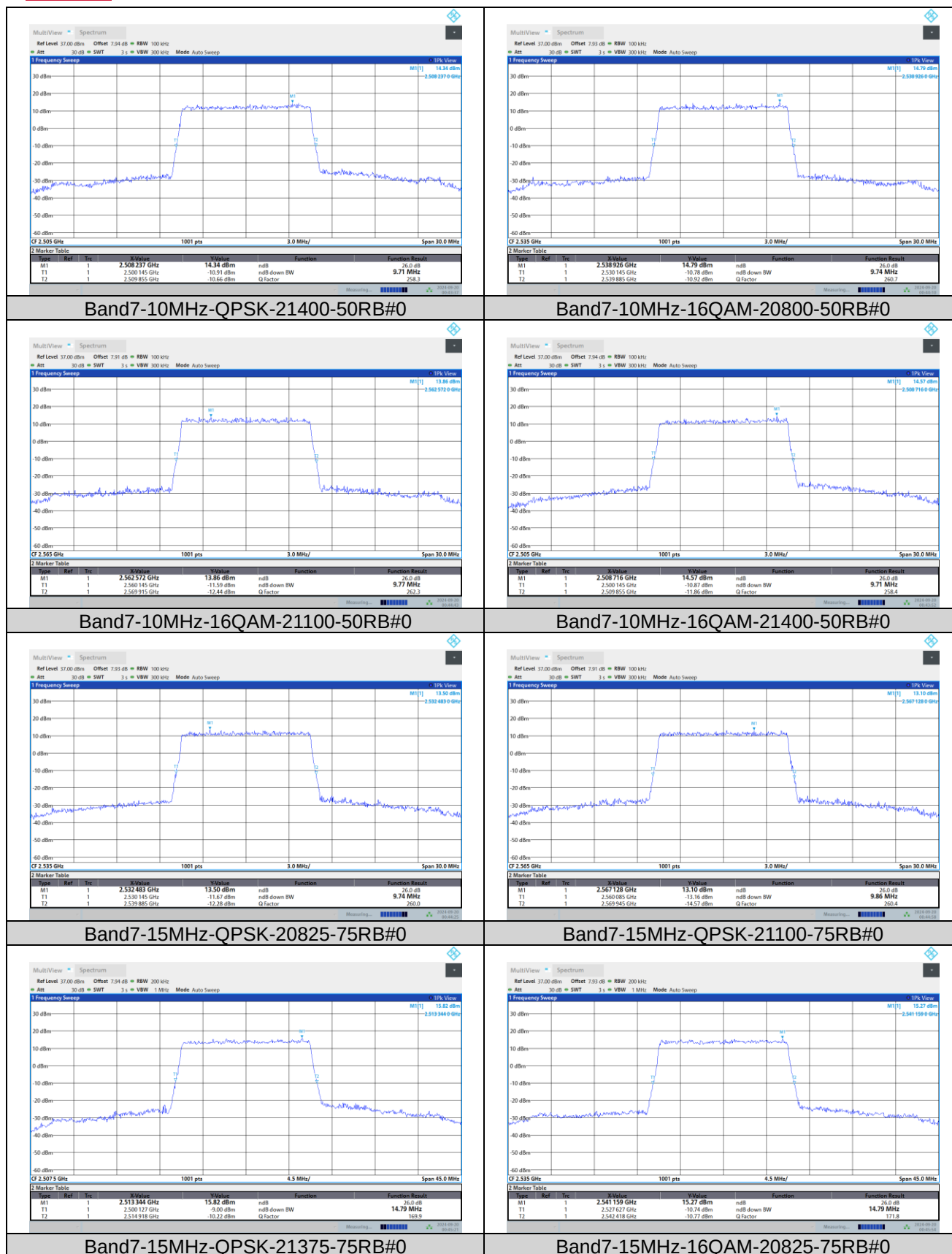
Tower N, Innovation Center, 88 Zuyi Road,
High-tech District, Suzhou City, Anhui Province

Tel: +86 (0557) 368 1008



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Test Report No.: PSU-QSU2306120115RF05



[illegible]

MultiView ☒ Spectrum

Ref Level: 37.00 dBm Offset: 7.94 dB RBW: 200 kHz

Att: 30.00 dB SWF: 3 s VBW: 1 MHz Mode: Auto Sweep

1 Frequency Span: 10% Video

30 dBm 14.64 dBm
2.512 GHz

11 12

45.0 MHz

2.567 GHz 1001 pts 4.5 MHz/

Marker Table

Type	Ref	Freq	Amplitude	Function	Function Result
M1	1	2.512265 GHz	14.64 dBm	nB	26.0 dB
T1	1	2.500127 GHz	-11.71 dBm	nB down BW	14.79 MHz
T2	1	2.514918 GHz	-11.71 dBm	Q Factor	165.9

Measurements: 14.64 dBm 14.79 MHz 165.9

MultiView Spectrum

Ref Level 37.00 dBm Offset 7.93 dB RBW 300 kHz

Att 30 dB Span 2007 1% VBW 1 kHz Mode Auto Sweep

1 Frequency Sweep

30 dBm

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

07 2.335 GHz

1001 pts

6.5 MHz/

Span 65.0 MHz

30% View

M1[1] 14.69 dBm

2.330 258.9 GHz

Marker Table

Type	Ref	Freq	Amplitude	Value	Function	Function Result
M1	1	2.332 258 GHz	14.69 dBm	null		30.5 dB
T1	1	2.527 493 GHz	-11.55 dBm	null	ndB down BW	14.97 MHz
T2	1	2.542 463 GHz	-11.42 dBm	Q Factor		100.2

7.00 MHz

100% BW

[illegible]

MultiView Spectrum

Ref Level 37.00 dBm Offset 7.94 dB RBW 200 kHz

Att 30 dB = SWT 3 s = VBW 1 MHz Mode Auto Sweep

1 Frequency Sweep

30 dBm

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

CF 2.51 GHz

1001 pts

6.0 MHz/

Span 60.0 MHz

15.28 dBm

2.511 6180 GHz

Marker Table

Marker	Freq	Amplitude	Function	Power Spectra
M1	2.511 618 GHz	15.28 dBm	noise	26.0 dB
M2	2.511 601 GHz	10.17 dBm	noise down BW	19.24 MHz
M3	2.511 618 GHz	19.24 dBm	Q factor	130.5

MultiView Spectrum

Ref Level 17.00 dBm Offset 7.50 dB RBW 200 kHz

Att 30 dB SWT 3:1 VBW 1 MHz Mode Auto Sweep

1 Frequency Sweep

15 dBm

M1 15.04 dBm

2.541530 GHz

2

1

30 dBm

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

CF 2.535 GHz

1001 pts

6.0 MHz/

Span 60.0 MHz

2 Marker Table

Marker	Ref	Type	Value	Value	Function	Frequency Result
M1	1	1	2.541533 GHz	15.04 dBm	nB	26.0 dB
M2	1	1	2.52535 GHz	-11.86 dBm	nB down BW	19.36 dB
M3	1	1	2.54471 GHz	-10.36 dBm	Q Factor	131.3

[illegible]

MultiView Spectrum

Ref Level: 37.00 dBm Offset: 7.54 dB RBW: 300 kHz

Att: 30.0 dB SWF: 1 VSW: 1 MHz Mode: Auto Sweep

1 Frequency Sweep

15% View

M1[1] 13.48 dBm

2.513 477 GHz

30 dBm

20 dBm

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

1001 pts

6.0 MHz/

Span: 60.0 MHz

2.513 GHz

Marker Table

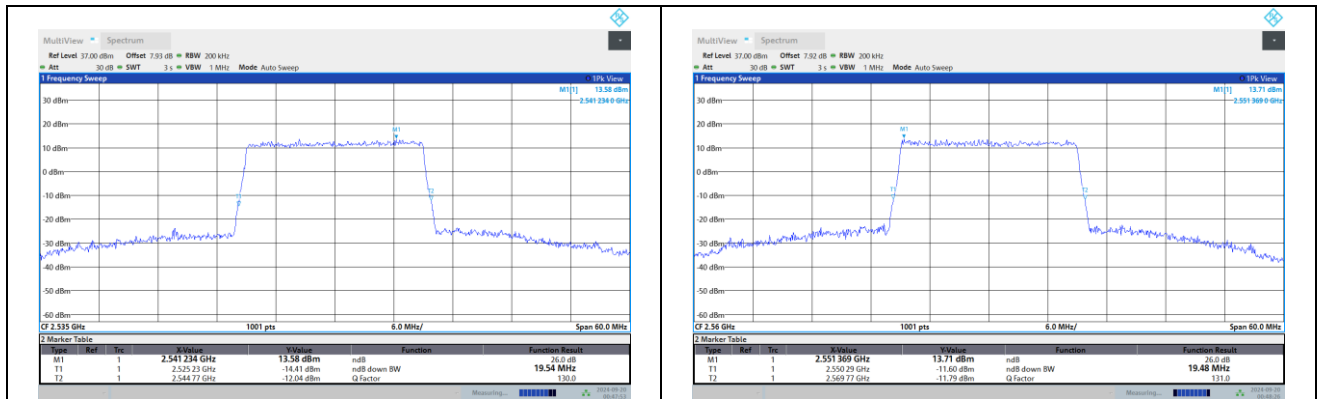
Type	Ref	Trc	V-Value	Function	Function Result
T1	1	2.513477 GHz	13.48 dBm	nB	16.9 dB
T1	1	2.509 29 GHz	-10.81 dBm	nB down BW	19.42 MHz
T2	1	2.519 71 GHz	-12.85 dBm	Q factor	125.4

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Test Report No.: PSU-QSU2306120115RF05

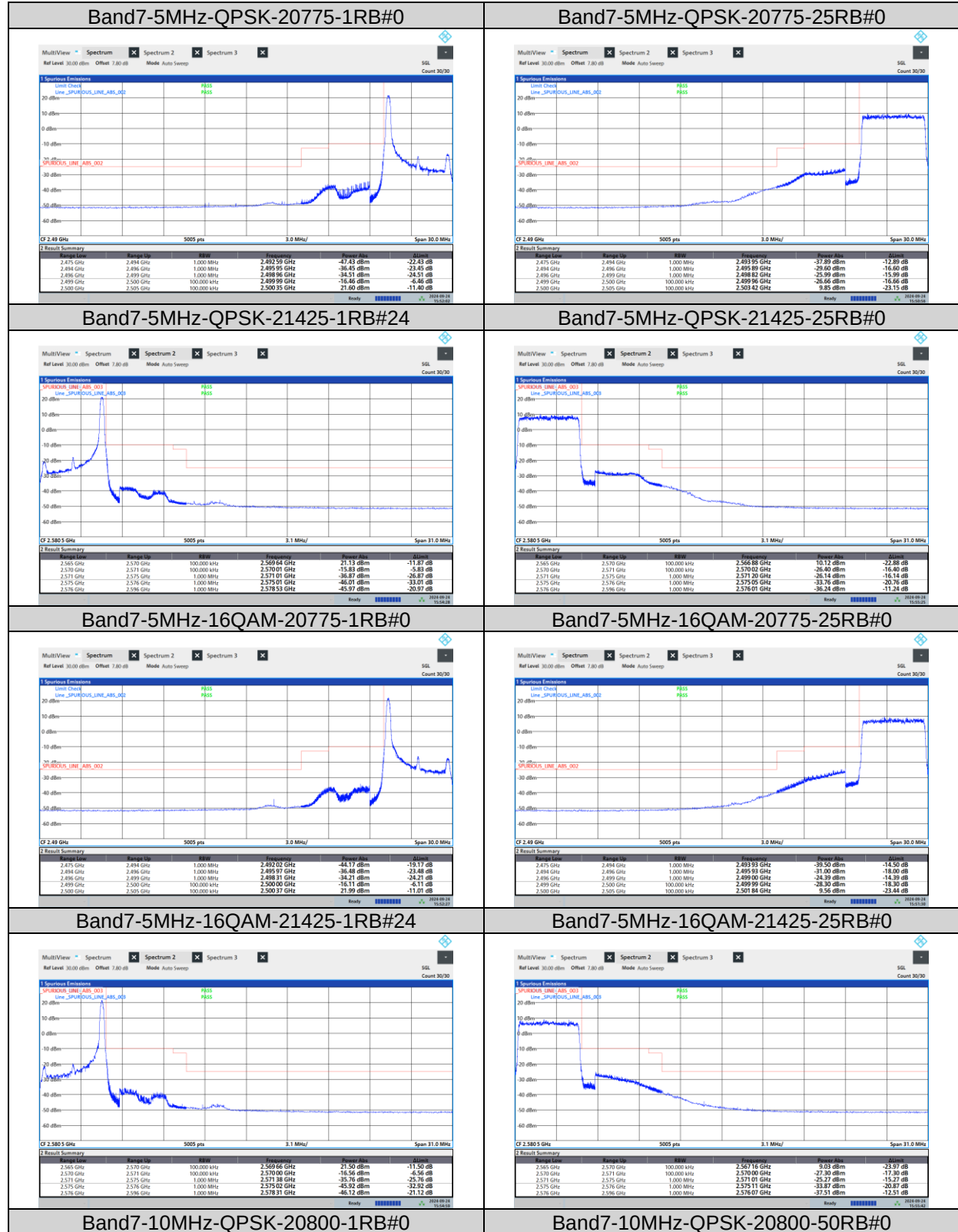


BAND EDGE

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	See Graph	PASS
Band7	5MHz	QPSK	20775	25RB#0	See Graph	PASS
Band7	5MHz	QPSK	21425	1RB#24	See Graph	PASS
Band7	5MHz	QPSK	21425	25RB#0	See Graph	PASS
Band7	5MHz	16QAM	20775	1RB#0	See Graph	PASS
Band7	5MHz	16QAM	20775	25RB#0	See Graph	PASS
Band7	5MHz	16QAM	21425	1RB#24	See Graph	PASS
Band7	5MHz	16QAM	21425	25RB#0	See Graph	PASS
Band7	10MHz	QPSK	20800	1RB#0	See Graph	PASS
Band7	10MHz	QPSK	20800	50RB#0	See Graph	PASS
Band7	10MHz	QPSK	21400	1RB#49	See Graph	PASS
Band7	10MHz	QPSK	21400	50RB#0	See Graph	PASS
Band7	10MHz	16QAM	20800	1RB#0	See Graph	PASS
Band7	10MHz	16QAM	20800	50RB#0	See Graph	PASS
Band7	10MHz	16QAM	21400	1RB#49	See Graph	PASS
Band7	10MHz	16QAM	21400	50RB#0	See Graph	PASS
Band7	15MHz	QPSK	20825	1RB#0	See Graph	PASS
Band7	15MHz	QPSK	20825	75RB#0	See Graph	PASS
Band7	15MHz	QPSK	21375	1RB#74	See Graph	PASS
Band7	15MHz	QPSK	21375	75RB#0	See Graph	PASS
Band7	15MHz	16QAM	20825	1RB#0	See Graph	PASS
Band7	15MHz	16QAM	20825	75RB#0	See Graph	PASS
Band7	15MHz	16QAM	21375	1RB#74	See Graph	PASS
Band7	15MHz	16QAM	21375	75RB#0	See Graph	PASS
Band7	20MHz	QPSK	20850	1RB#0	See Graph	PASS
Band7	20MHz	QPSK	20850	100RB#0	See Graph	PASS
Band7	20MHz	QPSK	21350	1RB#99	See Graph	PASS
Band7	20MHz	QPSK	21350	100RB#0	See Graph	PASS
Band7	20MHz	16QAM	20850	1RB#0	See Graph	PASS
Band7	20MHz	16QAM	20850	100RB#0	See Graph	PASS
Band7	20MHz	16QAM	21350	1RB#99	See Graph	PASS
Band7	20MHz	16QAM	21350	100RB#0	See Graph	PASS

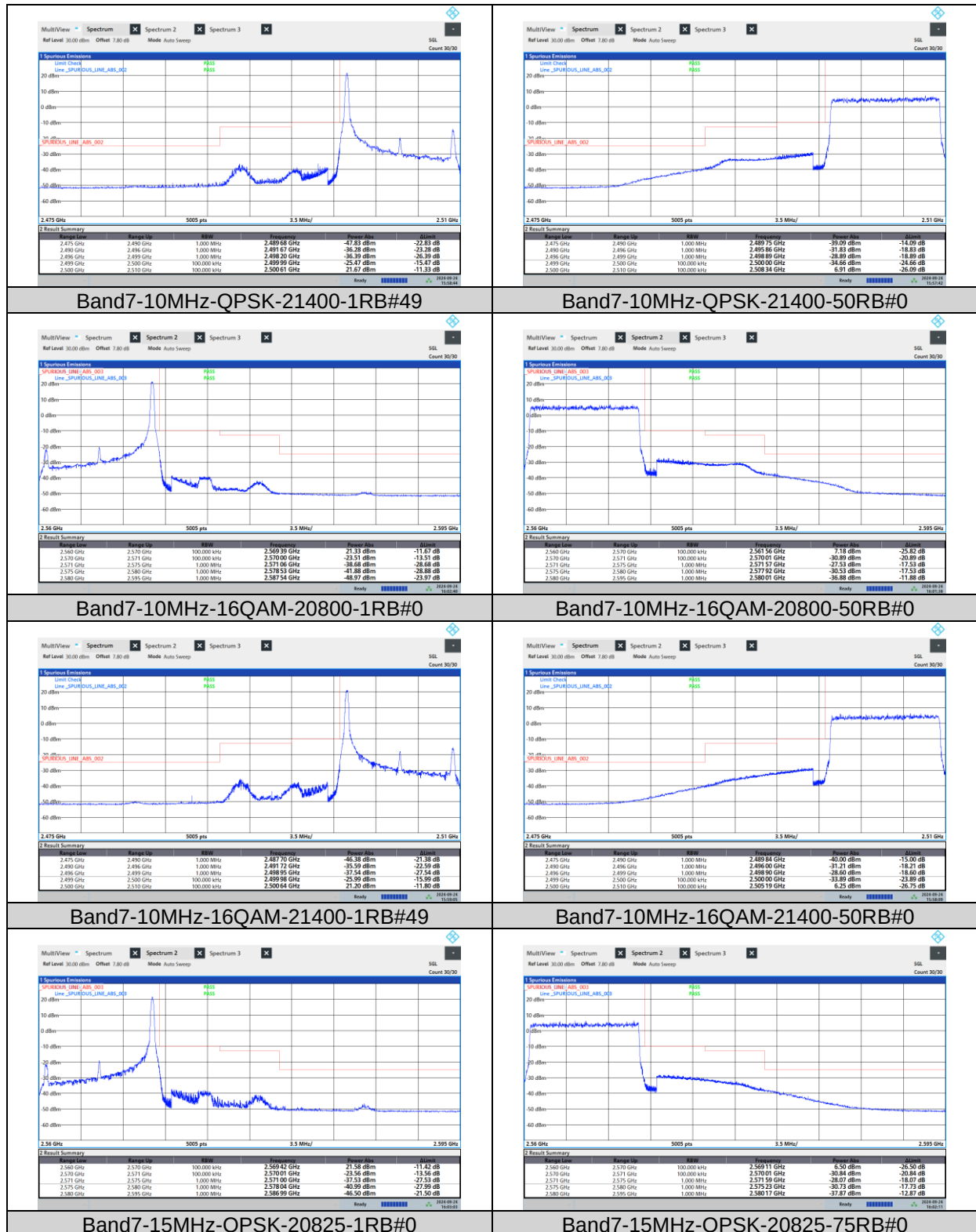
Test Graphs





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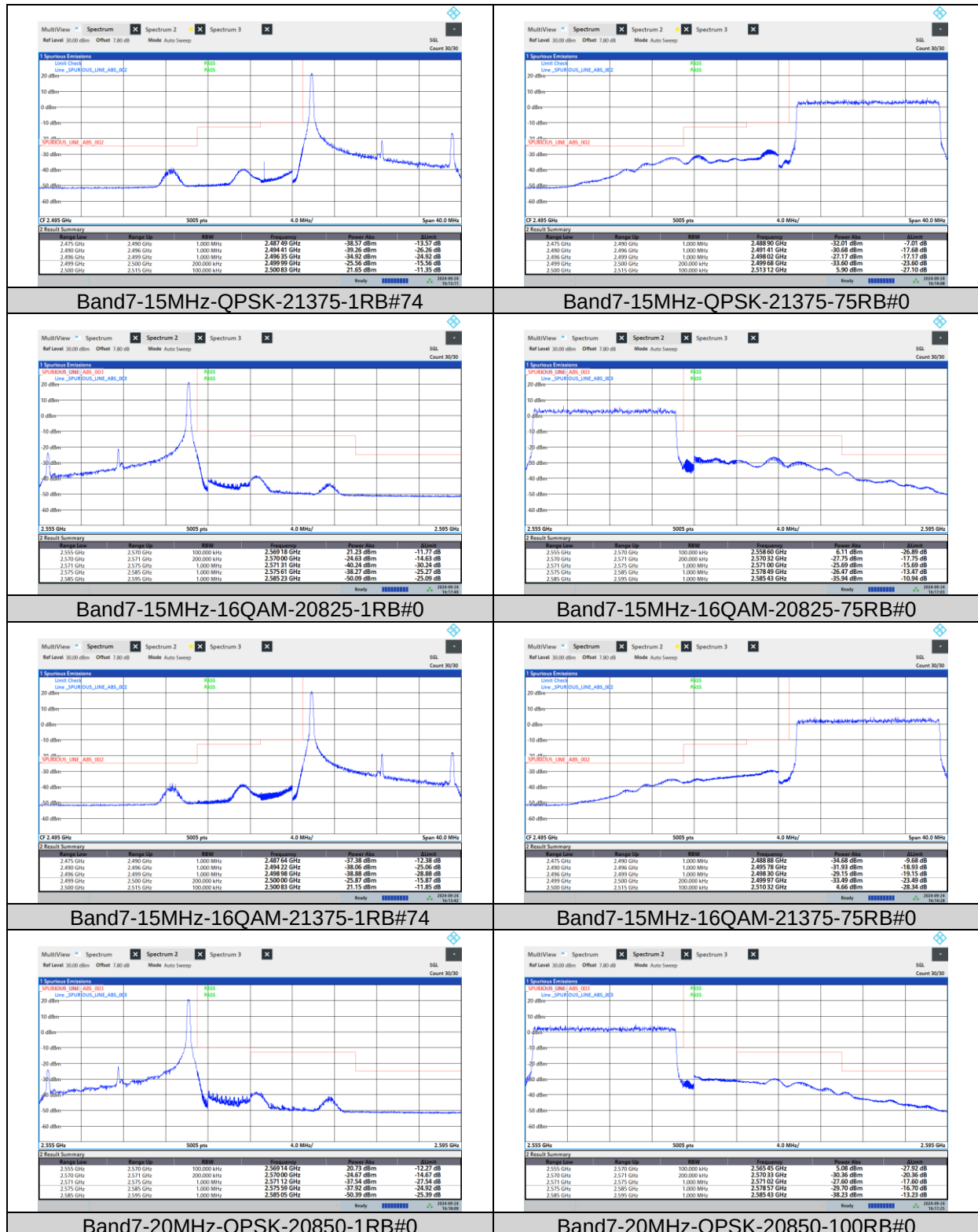
Test Report No.: PSU-QSU2306120115RF05





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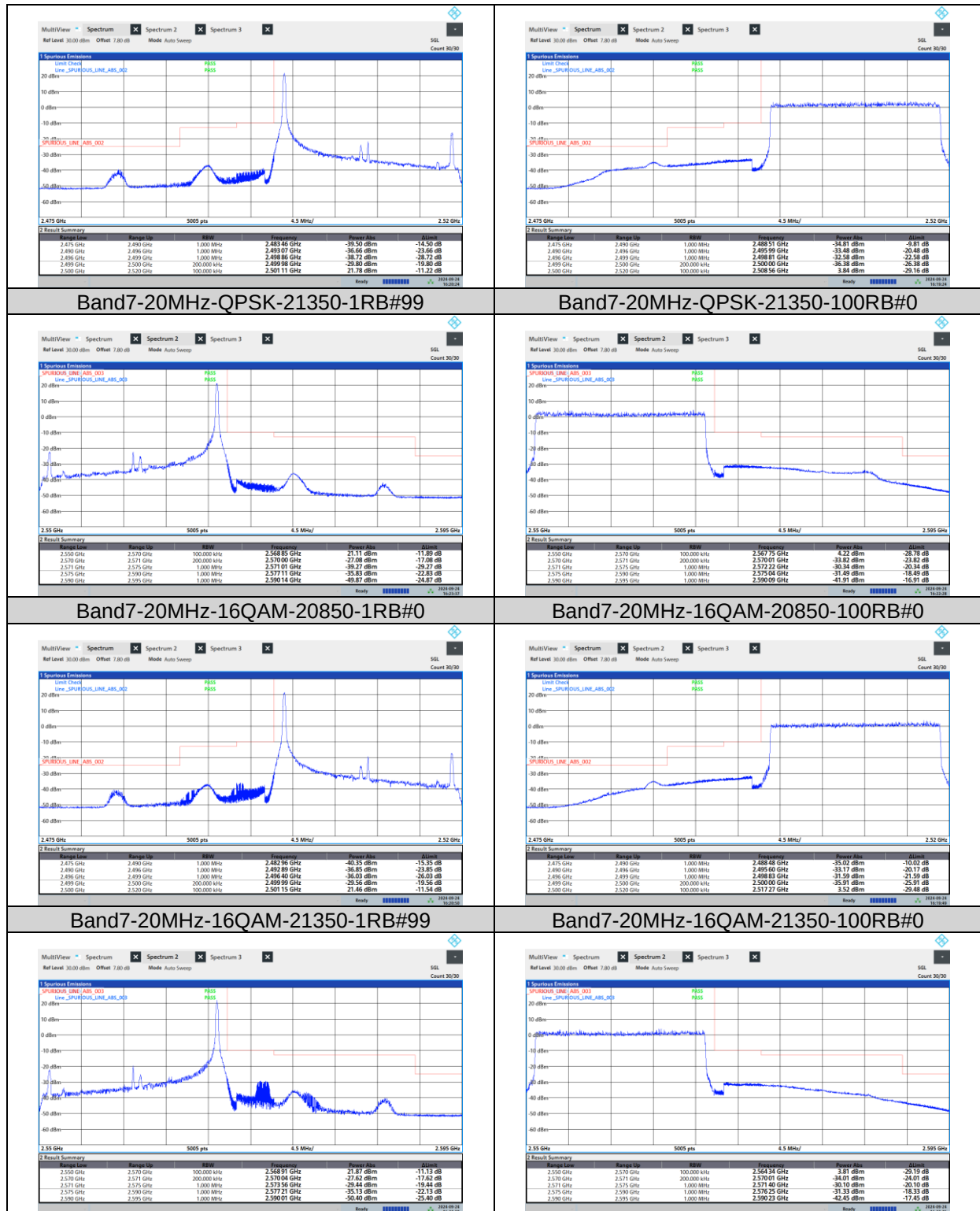
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VERITAS

Test Report No.: PSU-QSU2306120115RF05

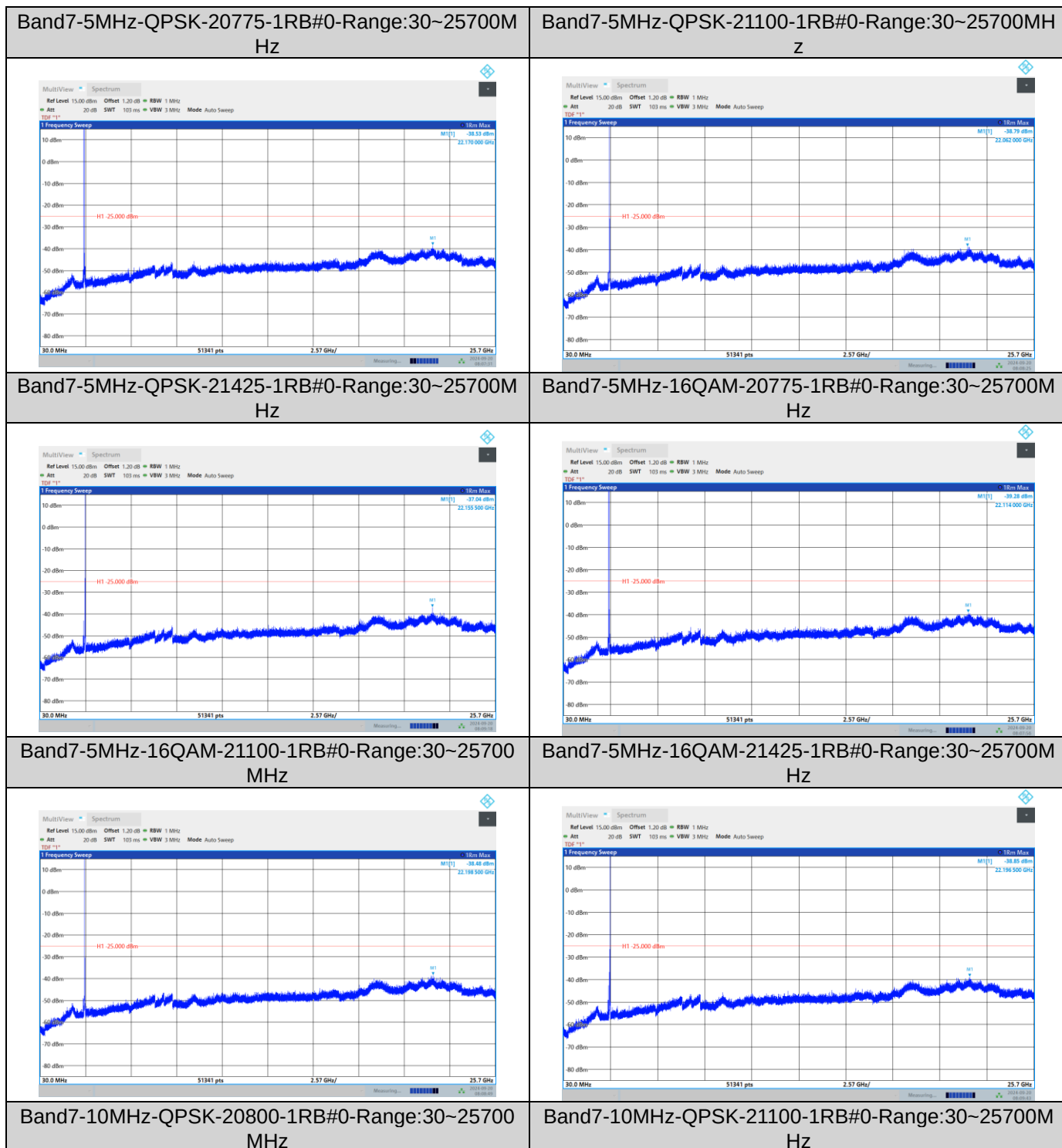


CONDUCTED SPURIOUS EMISSION

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band7	5MHz	QPSK	20775	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	5MHz	QPSK	21100	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	5MHz	QPSK	21425	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	5MHz	16QAM	20775	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	5MHz	16QAM	21100	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	5MHz	16QAM	21425	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	5MHz	64QAM	20775	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	5MHz	64QAM	21100	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	5MHz	64QAM	21425	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	10MHz	QPSK	20800	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	10MHz	QPSK	21100	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	10MHz	QPSK	21400	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	10MHz	16QAM	20800	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	10MHz	16QAM	21100	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	10MHz	16QAM	21400	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	10MHz	64QAM	20800	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	10MHz	64QAM	21100	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	10MHz	64QAM	21400	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	15MHz	QPSK	20825	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	15MHz	QPSK	21100	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	15MHz	QPSK	21375	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	15MHz	16QAM	20825	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	15MHz	16QAM	21100	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	15MHz	16QAM	21375	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	20MHz	QPSK	20850	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	20MHz	QPSK	21100	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	20MHz	QPSK	21350	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	20MHz	16QAM	20850	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	20MHz	16QAM	21100	1RB#0	Range:30~25700MHz	See Graph	PASS
Band7	20MHz	16QAM	21350	1RB#0	Range:30~25700MHz	See Graph	PASS

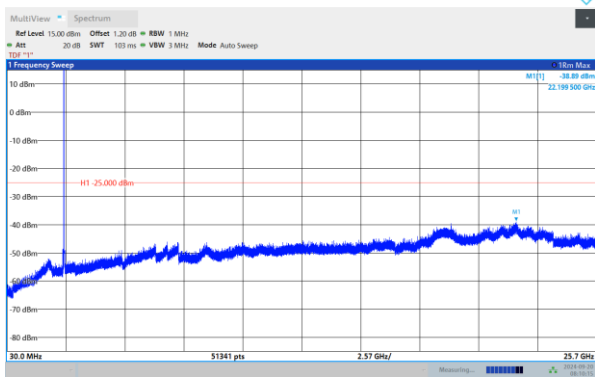
Test Graphs



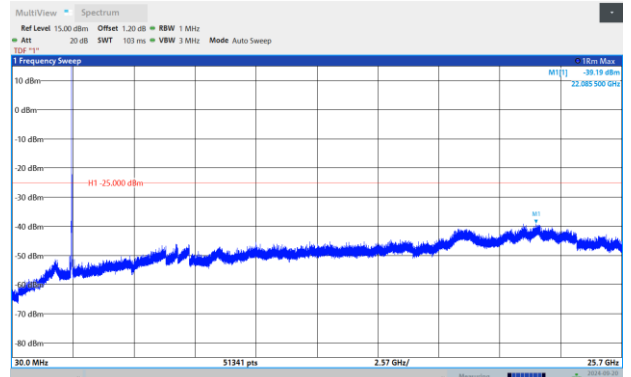


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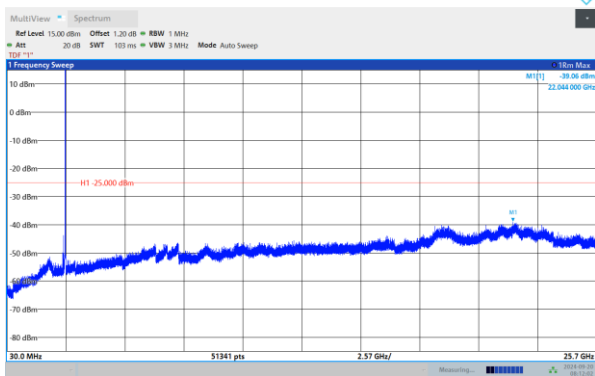
Test Report No.: PSU-QSU2306120115RF05



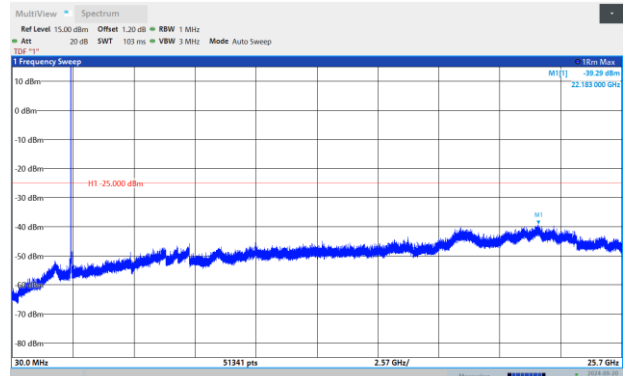
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MHz



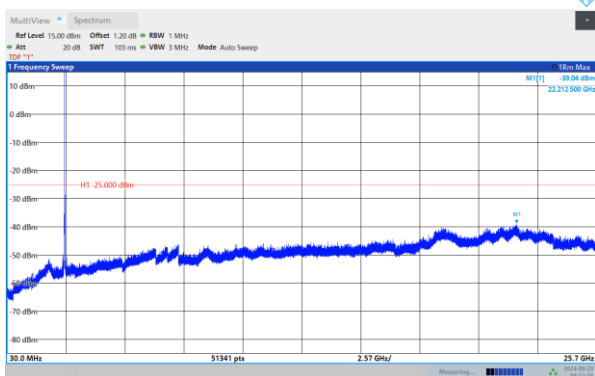
Band7-10MHz-16QAM-20800-1RB#0-Range:30~25700
MHz



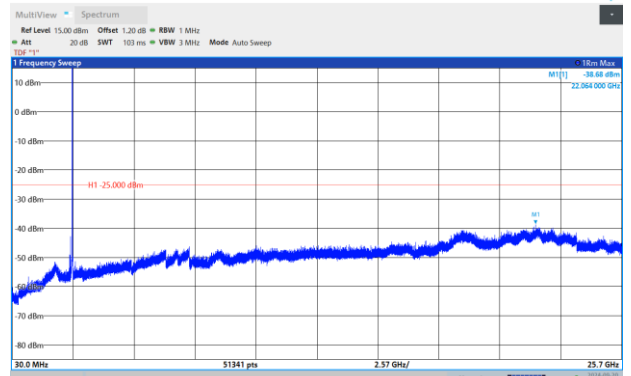
Band7-10MHz-16QAM-21100-1RB#0-Range:30~2570
0MHz



Band7-10MHz-16QAM-21400-1RB#0-Range:30~25700
MHz



Band7-15MHz-QPSK-20825-1RB#0-Range:30~25700
MHz

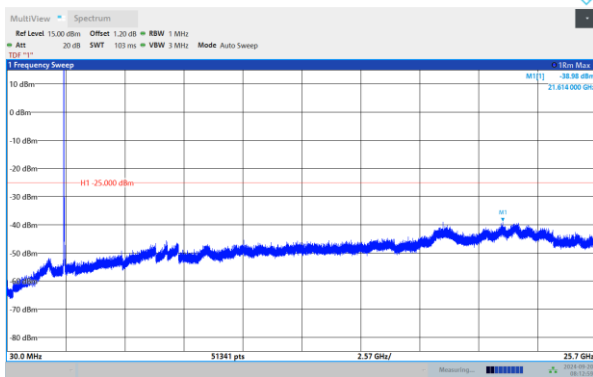


Band7-15MHz-QPSK-21100-1RB#0-Range:30~25700M
Hz

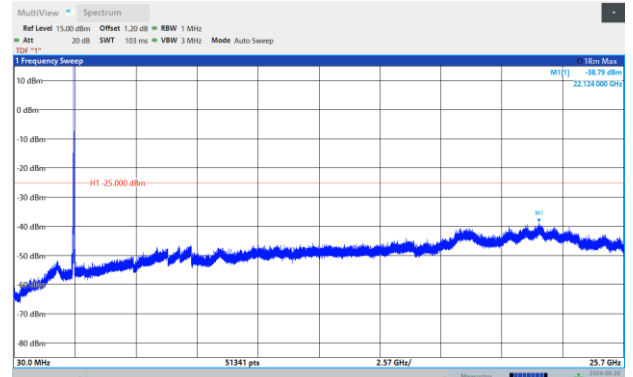


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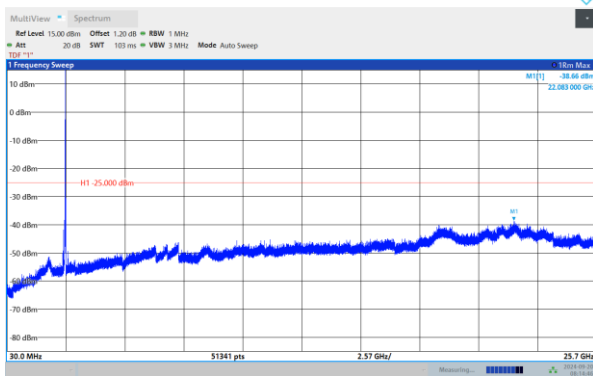
Test Report No.: PSU-QSU2306120115RF05



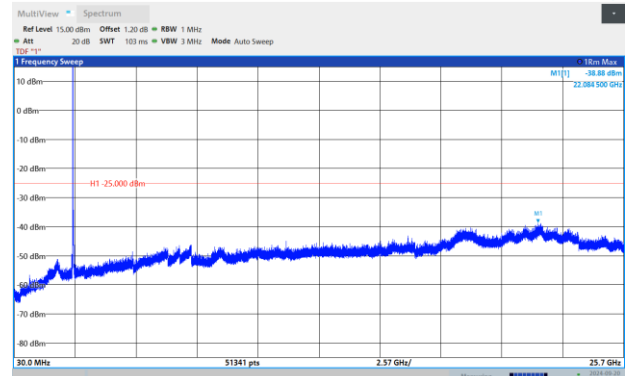
Band7-15MHz-QPSK-21375-1RB#0-Range:30~25700
MHz



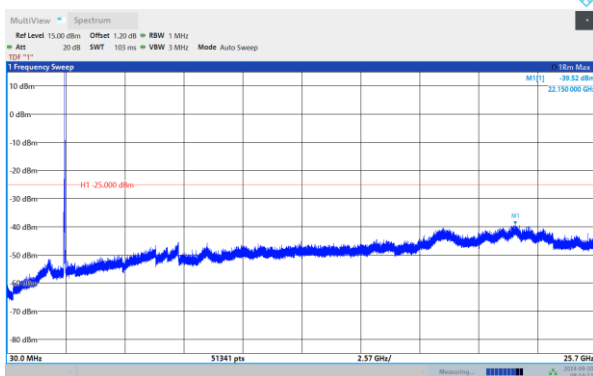
Band7-15MHz-16QAM-20825-1RB#0-Range:30~25700
MHz



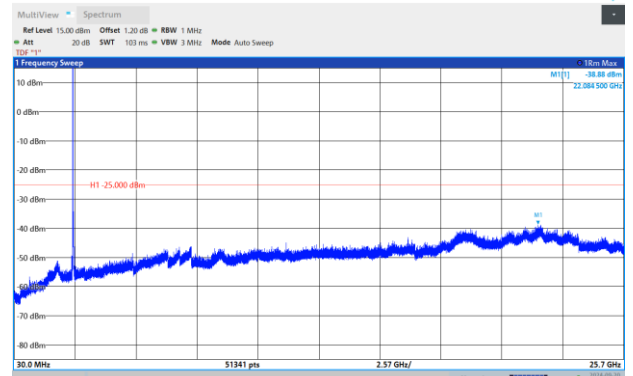
Band7-15MHz-16QAM-21100-1RB#0-Range:30~2570
0MHz



Band7-15MHz-16QAM-21375-1RB#0-Range:30~25700
MHz



Band7-20MHz-QPSK-20850-1RB#0-Range:30~25700
MHz

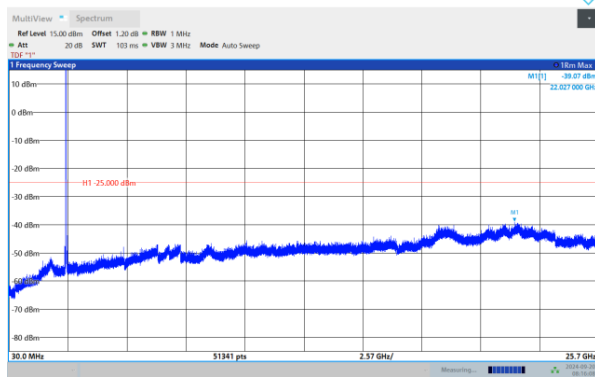


Band7-20MHz-QPSK-21100-1RB#0-Range:30~25700M
Hz

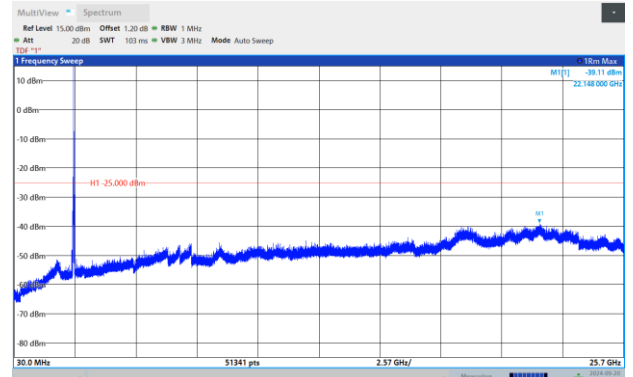


BUREAU
VERITAS

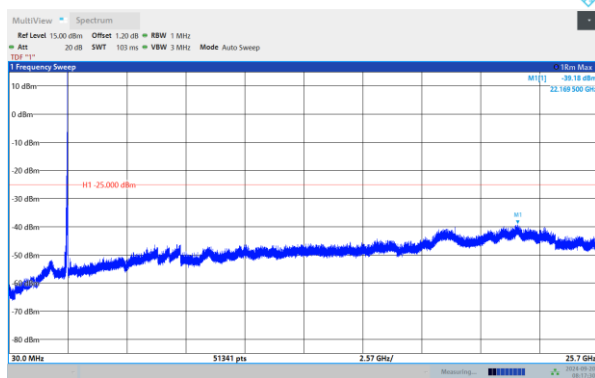
Test Report No.: PSU-QSU2306120115RF05



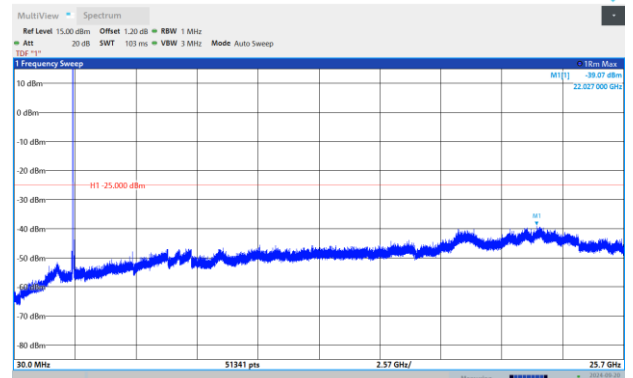
Band7-20MHz-QPSK-21350-1RB#0-Range:30~25700
MHz



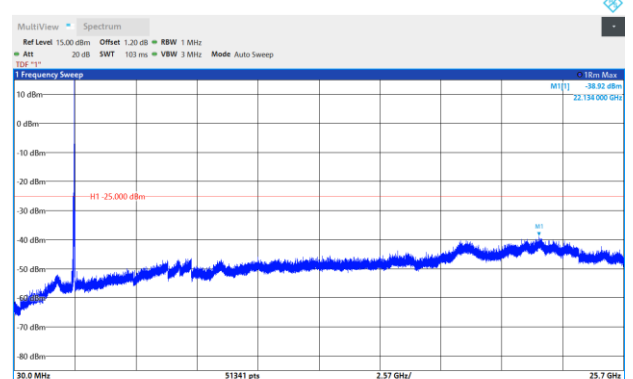
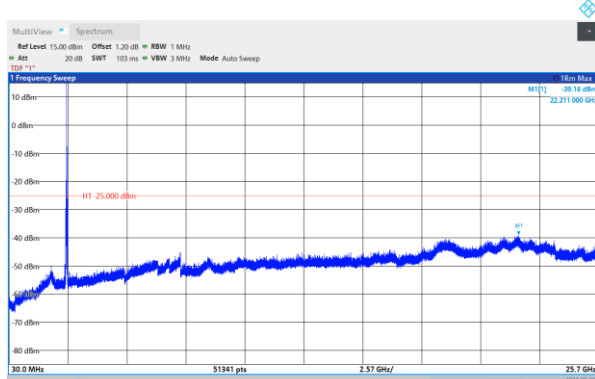
Band7-20MHz-16QAM-20850-1RB#0-Range:30~25700
MHz



Band7-20MHz-16QAM-21100-1RB#0-Range:30~2570
0MHz



Band7-20MHz-16QAM-21350-1RB#0-Range:30~25700
MHz



FREQUENCY STABILITY

Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	LV	NT	15.20	0.0007	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	NT	0.80	0.0000	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	HV	NT	-7.40	-0.0004	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	LV	NT	14.40	0.0007	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	NT	16.10	0.0008	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	HV	NT	16.60	0.0008	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	LV	NT	-2.10	-0.0001	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	NT	-14.60	-0.0007	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	HV	NT	0.00	0.0000	±2.5	PASS

Temperature										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band7	20MHz	QPSK	20850	100RB#0	NV	-30	22.00	0.0088	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-20	18.20	0.0073	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	-10	7.50	0.0030	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	0	-21.30	-0.0085	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	10	-25.60	-0.0102	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	20	-25.70	-0.0102	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	30	-8.90	-0.0035	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	40	17.80	0.0071	±2.5	PASS
Band7	20MHz	QPSK	20850	100RB#0	NV	50	26.60	0.0106	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-30	-25.50	-0.0101	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-20	-19.30	-0.0076	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	-10	19.90	0.0079	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	0	21.30	0.0084	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	10	-7.00	-0.0028	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	20	6.90	0.0027	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	30	-8.00	-0.0032	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	40	7.40	0.0029	±2.5	PASS
Band7	20MHz	QPSK	21100	100RB#0	NV	50	-2.40	-0.0009	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-30	6.90	0.0027	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-20	5.50	0.0021	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	-10	-22.90	-0.0089	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	0	-29.10	-0.0114	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	10	17.70	0.0069	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	20	9.90	0.0039	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	30	-29.70	-0.0116	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	40	-15.20	-0.0059	±2.5	PASS
Band7	20MHz	QPSK	21350	100RB#0	NV	50	1.90	0.0007	±2.5	PASS

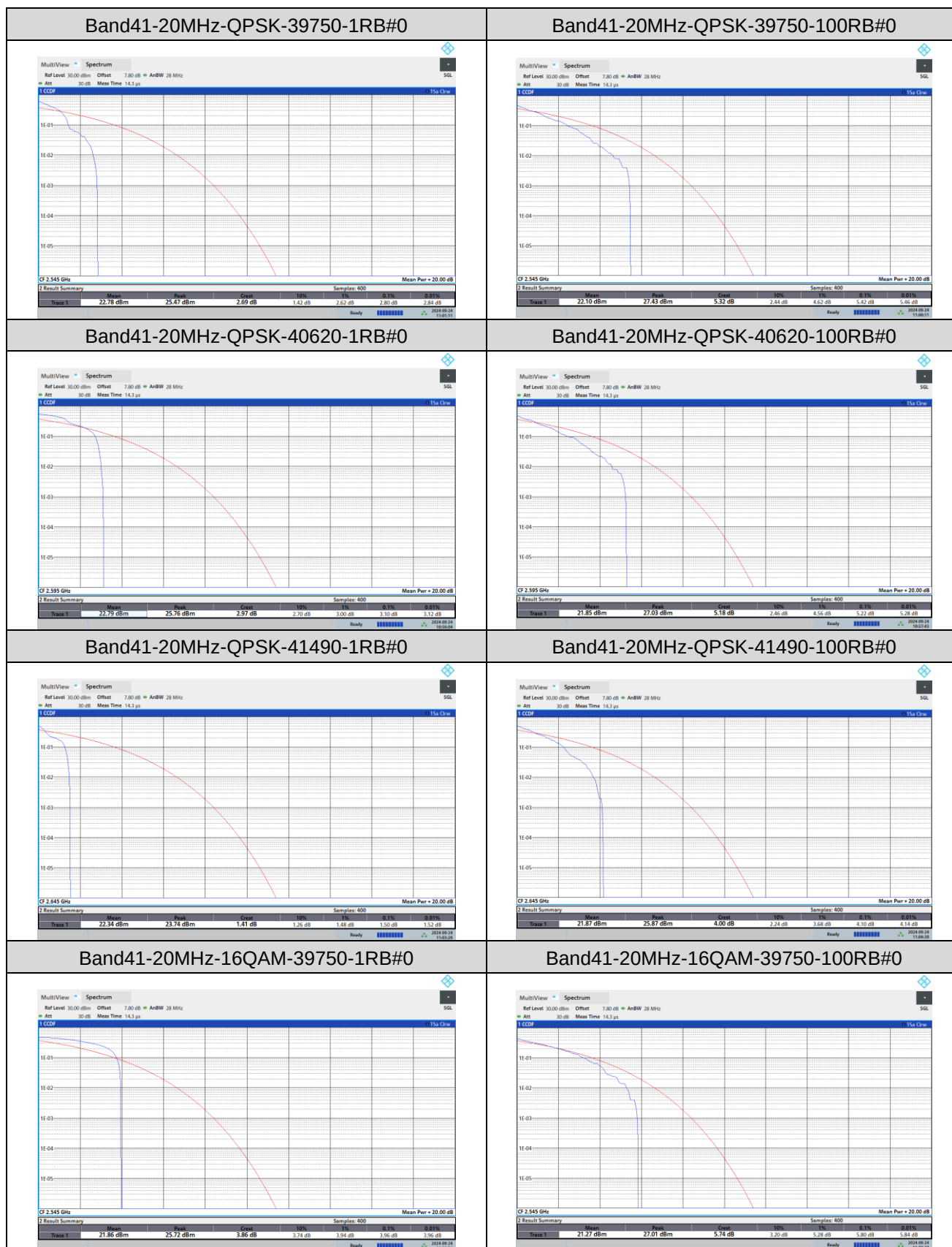
LTE BAND41(INCLUDING LTE BAND38)

PEAK-TO-AVERAGE RATIO(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band41	20MHz	QPSK	39750	1RB#0	2.80	13	PASS
Band41	20MHz	QPSK	39750	100RB#0	5.42	13	PASS
Band41	20MHz	QPSK	40620	1RB#0	3.10	13	PASS
Band41	20MHz	QPSK	40620	100RB#0	5.22	13	PASS
Band41	20MHz	QPSK	41490	1RB#0	1.50	13	PASS
Band41	20MHz	QPSK	41490	100RB#0	4.10	13	PASS
Band41	20MHz	16QAM	39750	1RB#0	3.96	13	PASS
Band41	20MHz	16QAM	39750	100RB#0	5.80	13	PASS
Band41	20MHz	16QAM	40620	1RB#0	2.58	13	PASS
Band41	20MHz	16QAM	40620	100RB#0	4.20	13	PASS
Band41	20MHz	16QAM	41490	1RB#0	3.40	13	PASS
Band41	20MHz	16QAM	41490	100RB#0	3.72	13	PASS

Test Graphs

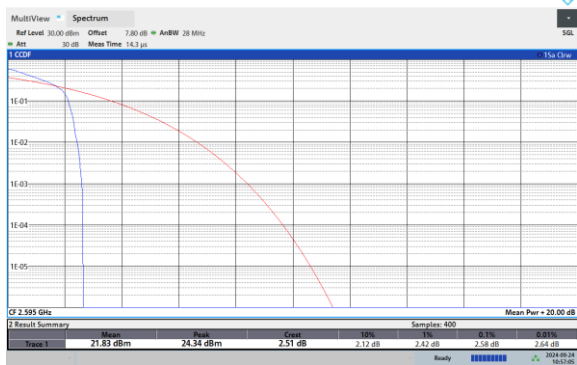




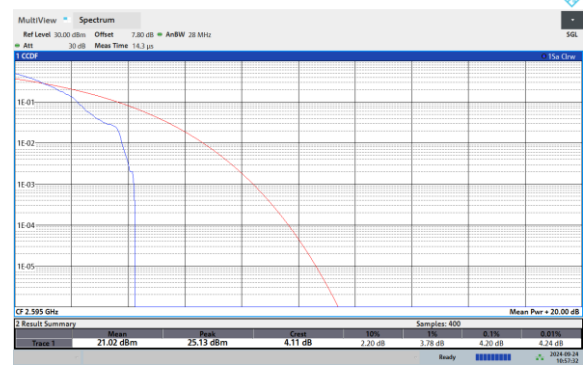
BUREAU
VERITAS

Test Report No.: PSU-QSU2306120115RF05

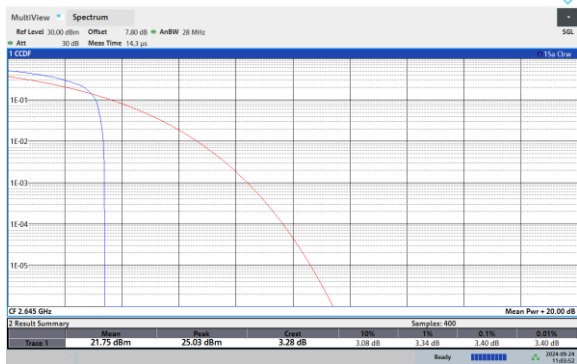
Band41-20MHz-16QAM-40620-1RB#0



Band41-20MHz-16QAM-40620-100RB#0



Band41-20MHz-16QAM-41490-1RB#0



Band41-20MHz-16QAM-41490-100RB#0

