

B66 3M QPSK 15@0 CH 132322



B66 3M 16QAM 15@0 CH 132322



B66 3M QPSK 15@0 CH 132657



B66 3M 16QAM 15@0 CH 132657



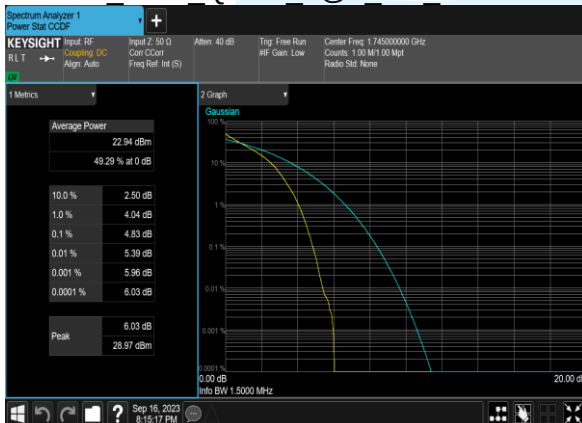
B66 1.4M QPSK 6@0 CH 131979



B66 1.4M 16QAM 6@0 CH 131979



B66 1.4M QPSK 6@0 CH 132322



B66 1.4M 16QAM 6@0 CH 132322



B66 1.4M QPSK 6@0 CH 132665



B66 1.4M 16QAM 6@0 CH 132665



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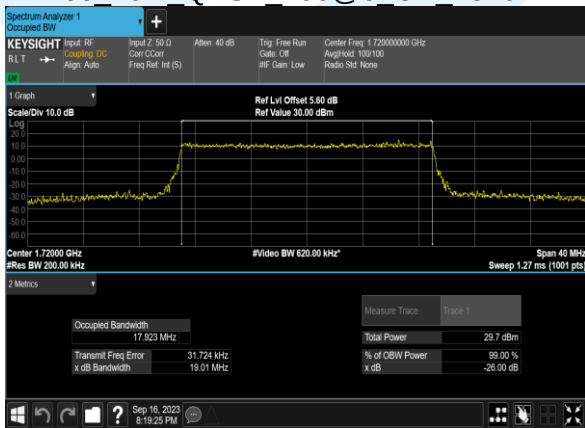
UTTR-RF-FCC4G-V1.1

Occupied Bandwidth

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	OBW (MHz)	26dB BW (MHz)
66	20.0	132072	1720.0	QPSK	100@0	17.923	19.01
66	20.0	132072	1720.0	16QAM	100@0	17.887	19.02
66	20.0	132322	1745.0	QPSK	100@0	17.855	19.03
66	20.0	132322	1745.0	16QAM	100@0	17.891	18.83
66	20.0	132572	1770.0	QPSK	100@0	17.866	19.12
66	20.0	132572	1770.0	16QAM	100@0	17.919	18.95
66	15.0	132047	1717.5	QPSK	75@0	13.417	14.58
66	15.0	132047	1717.5	16QAM	75@0	13.445	14.56
66	15.0	132322	1745.0	QPSK	75@0	13.401	14.86
66	15.0	132322	1745.0	16QAM	75@0	13.398	14.61
66	15.0	132597	1772.5	QPSK	75@0	13.436	14.36
66	15.0	132597	1772.5	16QAM	75@0	13.411	14.41
66	10.0	132022	1715.0	QPSK	50@0	8.9470	9.654
66	10.0	132022	1715.0	16QAM	50@0	8.9404	9.784
66	10.0	132322	1745.0	QPSK	50@0	8.9485	9.829
66	10.0	132322	1745.0	16QAM	50@0	8.9479	9.596
66	10.0	132622	1775.0	QPSK	50@0	8.9265	9.678
66	10.0	132622	1775.0	16QAM	50@0	8.9467	9.708
66	5.0	131997	1712.5	QPSK	25@0	4.4664	4.922
66	5.0	131997	1712.5	16QAM	25@0	4.4620	5.010
66	5.0	132322	1745.0	QPSK	25@0	4.4645	5.029
66	5.0	132322	1745.0	16QAM	25@0	4.4580	4.928
66	5.0	132647	1777.5	QPSK	25@0	4.4763	4.916
66	5.0	132647	1777.5	16QAM	25@0	4.4749	5.012
66	3.0	131987	1711.5	QPSK	15@0	2.6782	2.836
66	3.0	131987	1711.5	16QAM	15@0	2.6663	2.842
66	3.0	132322	1745.0	QPSK	15@0	2.6757	2.835
66	3.0	132322	1745.0	16QAM	15@0	2.6687	2.810
66	3.0	132657	1778.5	QPSK	15@0	2.6778	2.851
66	3.0	132657	1778.5	16QAM	15@0	2.6756	2.840
66	1.4	131979	1710.7	QPSK	6@0	1.0791	1.237
66	1.4	131979	1710.7	16QAM	6@0	1.0774	1.223
66	1.4	132322	1745.0	QPSK	6@0	1.0774	1.247
66	1.4	132322	1745.0	16QAM	6@0	1.0750	1.259
66	1.4	132665	1779.3	QPSK	6@0	1.0780	1.239
66	1.4	132665	1779.3	16QAM	6@0	1.0758	1.211

Test Graphs

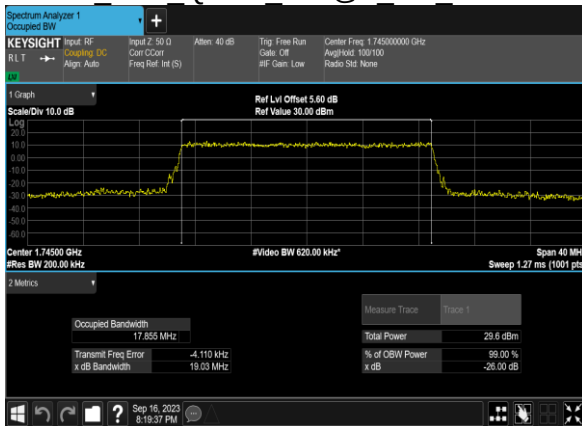
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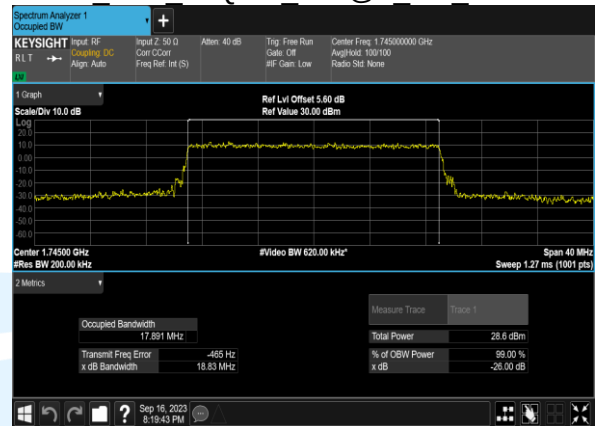
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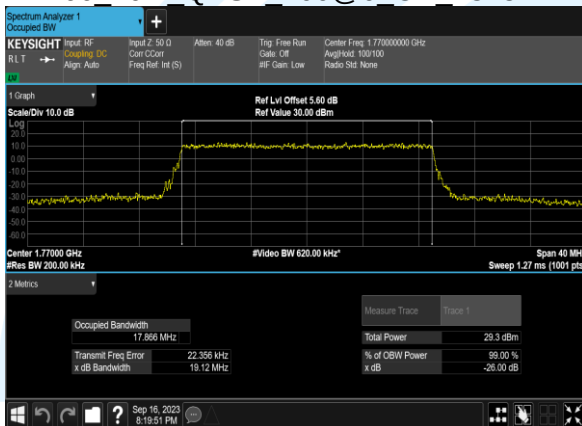
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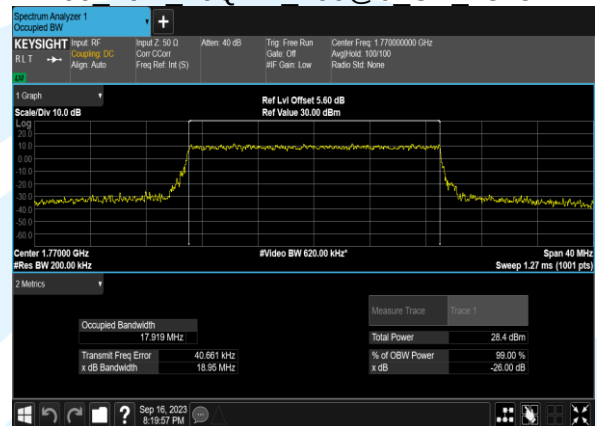
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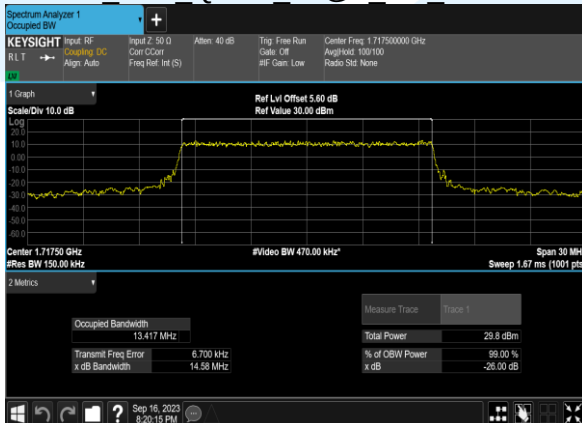
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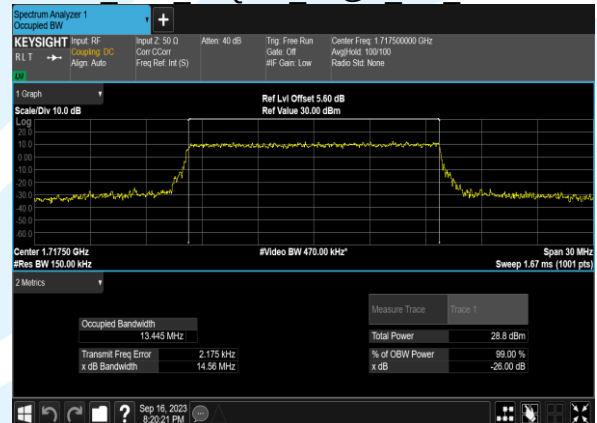
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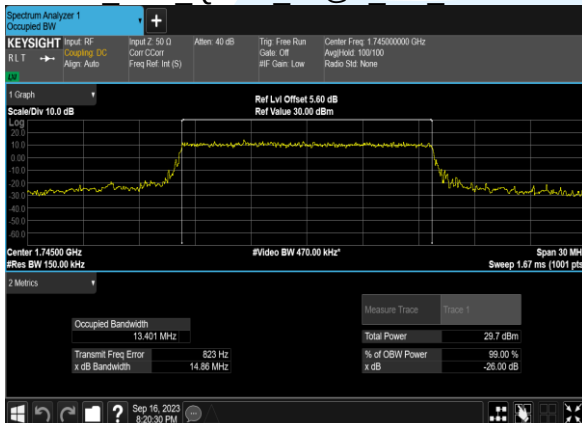
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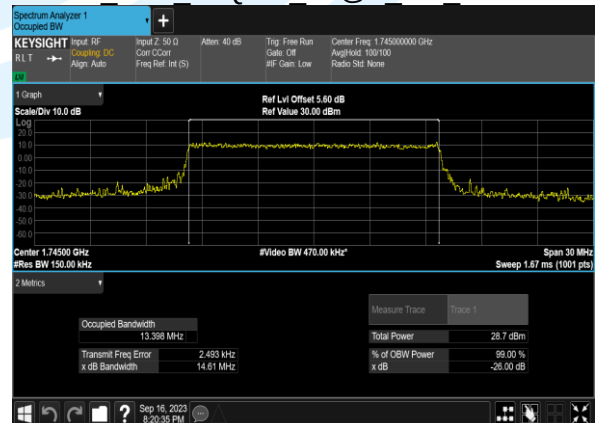
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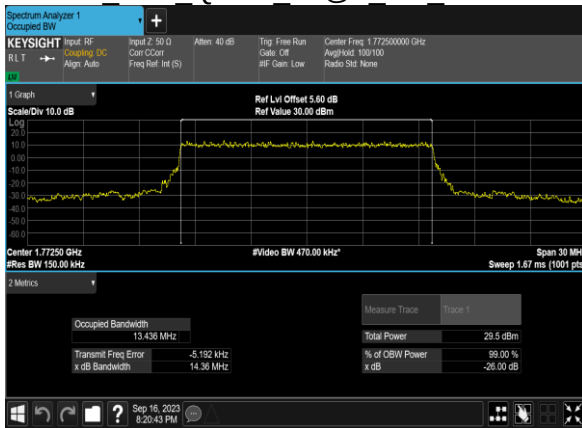
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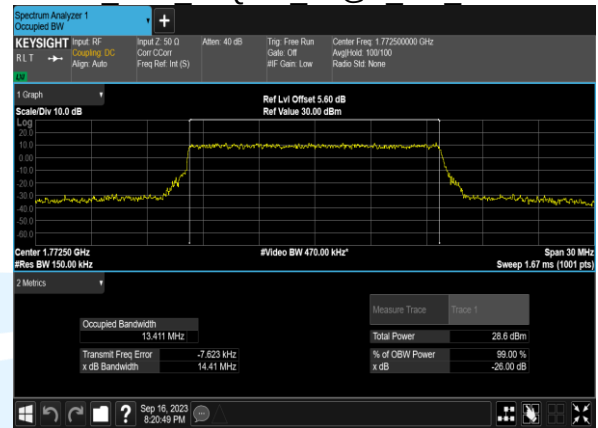
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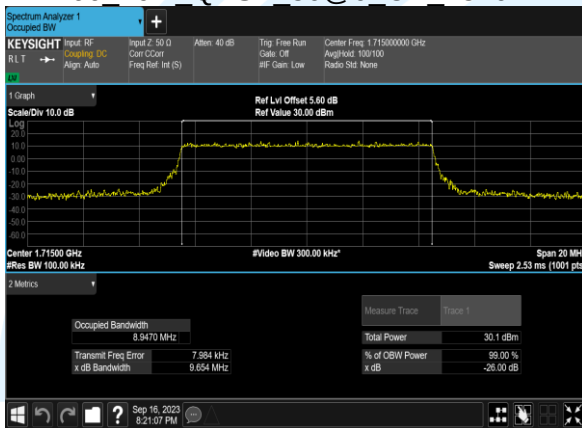
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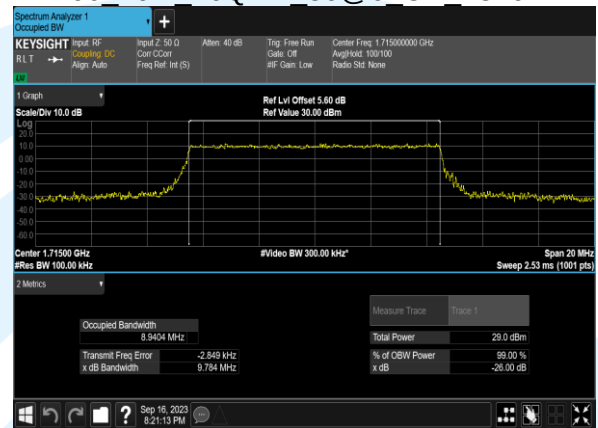
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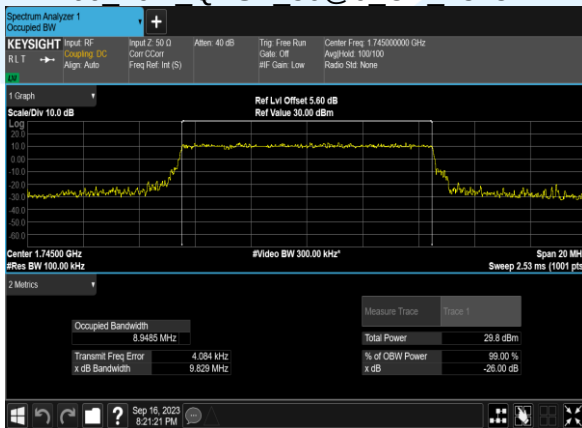
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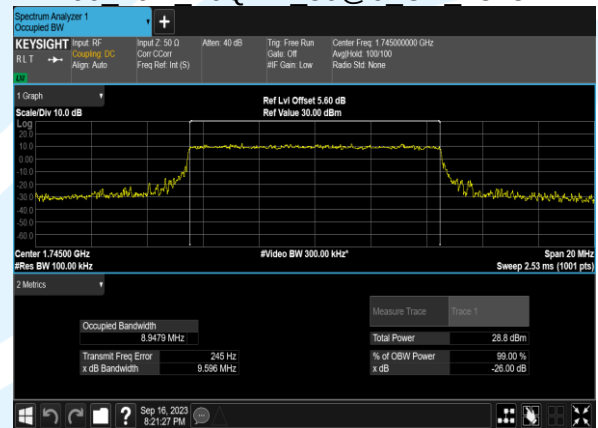
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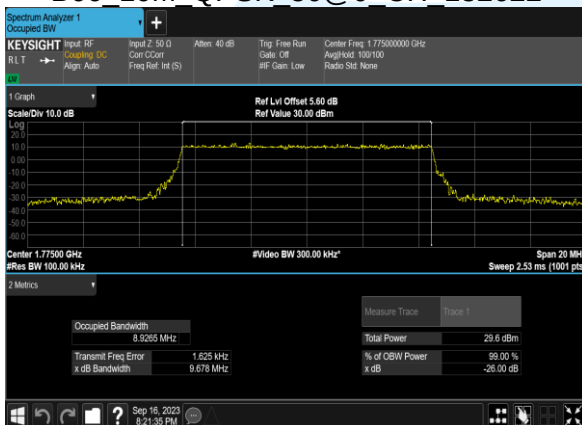
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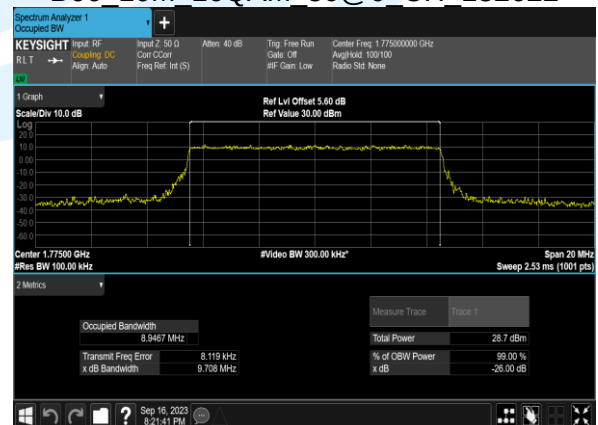
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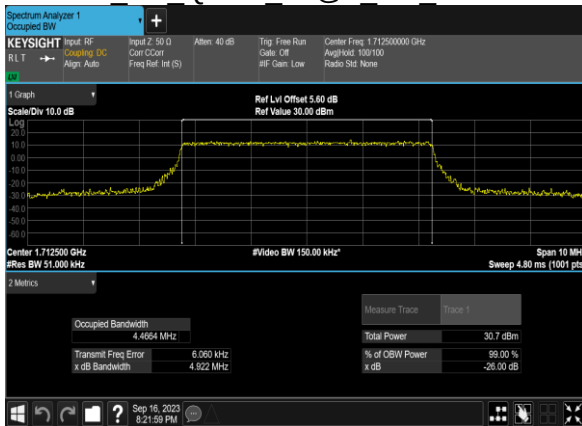
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B66 10M 16QAM 50@0 CH 132622



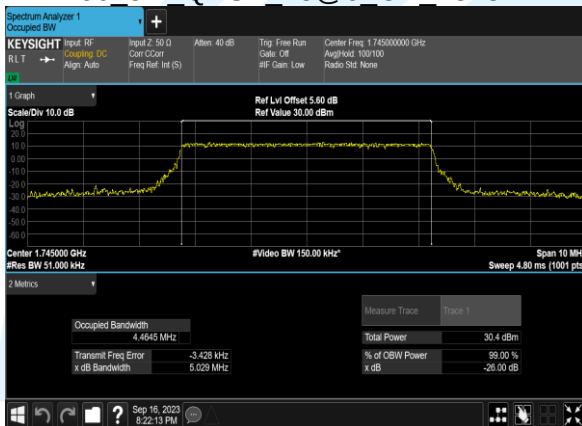
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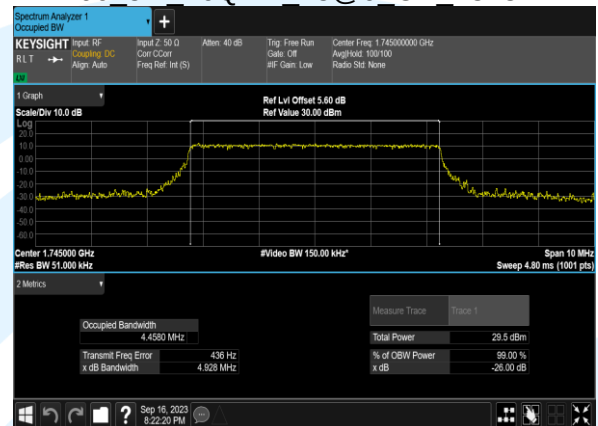
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B66 5M QPSK 25@0 CH 132322



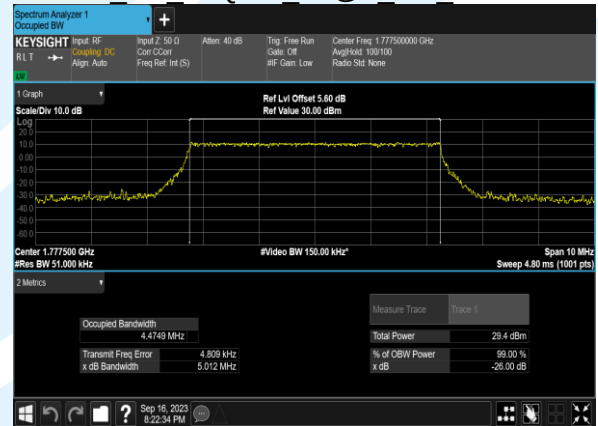
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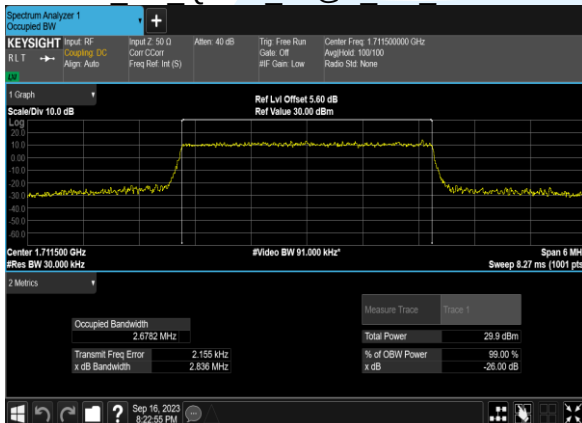
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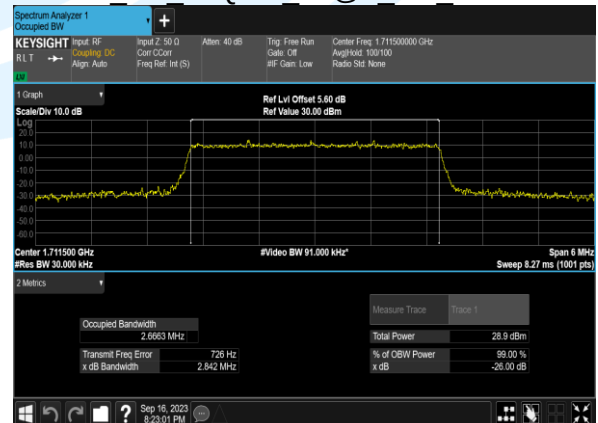
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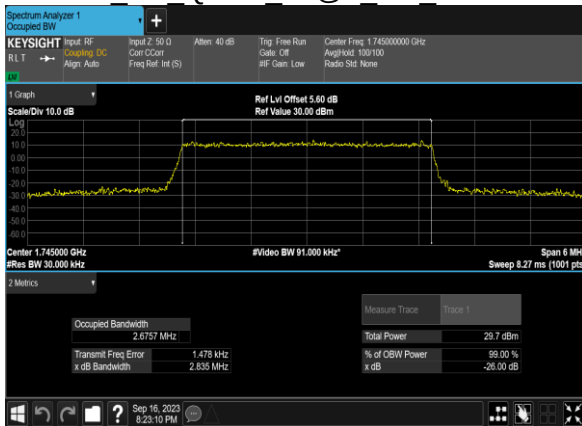
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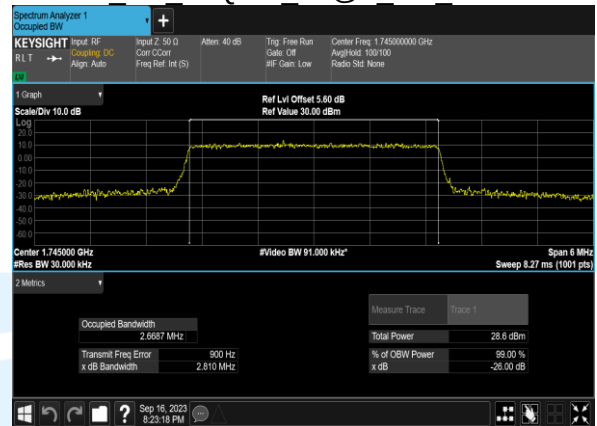
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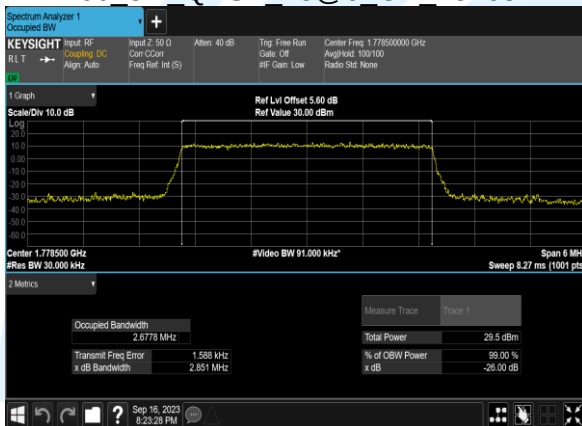
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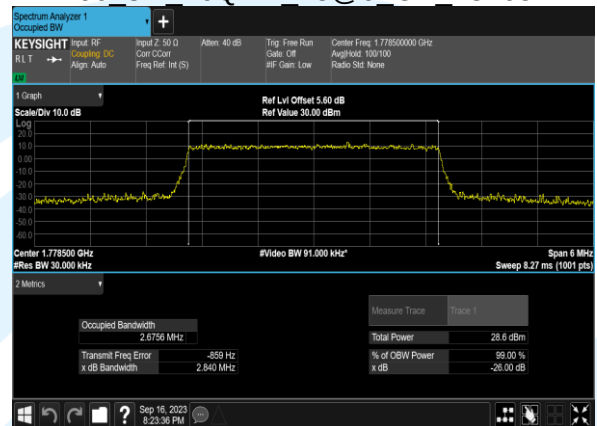
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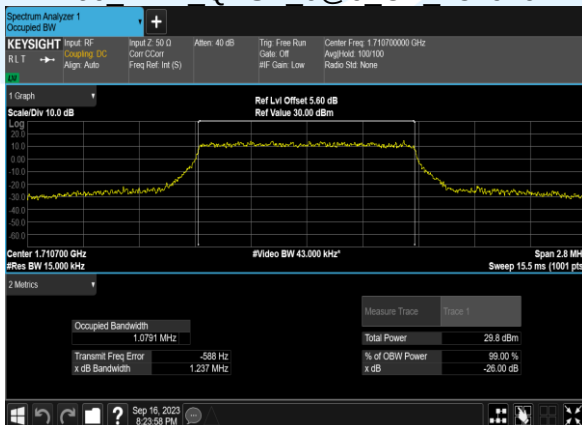
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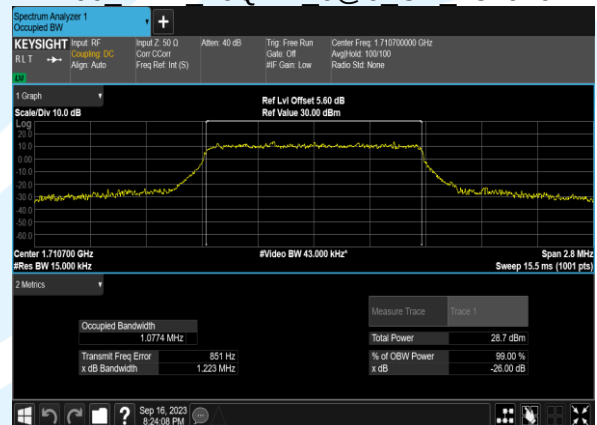
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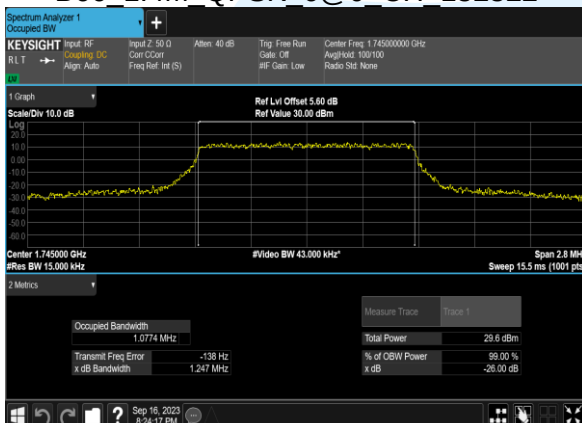
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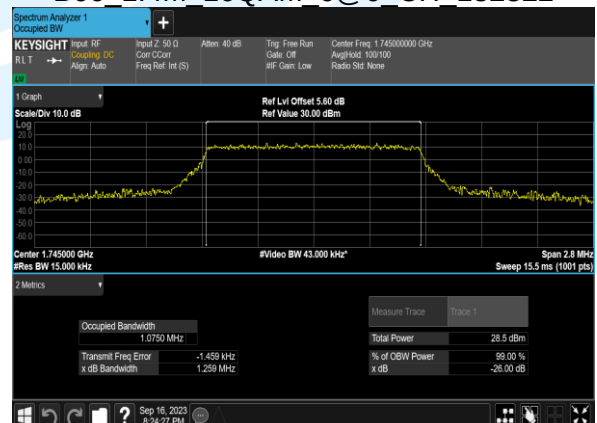
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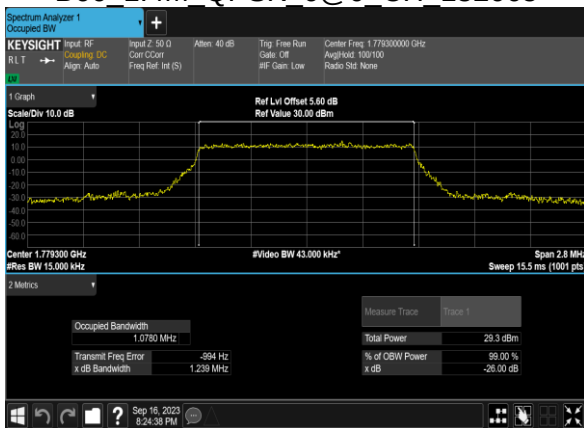
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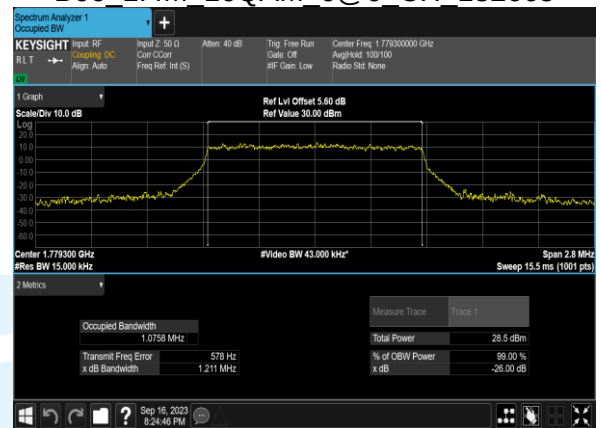
B66 1.4M 16QAM 6@0 CH 132322



B66 1.4M QPSK 6@0 CH 132665



B66 1.4M 16QAM 6@0 CH 132665



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UTTR-RF-FCC4G-V1.1

Conducted Spurious Emissions

Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result (dBm)	Limit (dBm)	Verdict
66	20.0	132072	1720.0	QPSK	1@0	-29.9	-13	PASS
66	20.0	132072	1720.0	16QAM	1@0	-30.09	-13	PASS
66	20.0	132322	1745.0	QPSK	1@0	-29.73	-13	PASS
66	20.0	132322	1745.0	16QAM	1@0	-29.91	-13	PASS
66	20.0	132572	1770.0	QPSK	1@0	-29.13	-13	PASS
66	20.0	132572	1770.0	16QAM	1@0	-29.6	-13	PASS
66	15.0	132047	1717.5	QPSK	1@0	-29.96	-13	PASS
66	15.0	132047	1717.5	16QAM	1@0	-29.76	-13	PASS
66	15.0	132322	1745.0	QPSK	1@0	-30.13	-13	PASS
66	15.0	132322	1745.0	16QAM	1@0	-29.77	-13	PASS
66	15.0	132597	1772.5	QPSK	1@0	-29.85	-13	PASS
66	15.0	132597	1772.5	16QAM	1@0	-29.65	-13	PASS
66	10.0	132022	1715.0	QPSK	1@0	-30.15	-13	PASS
66	10.0	132022	1715.0	16QAM	1@0	-30.1	-13	PASS
66	10.0	132322	1745.0	QPSK	1@0	-29.2	-13	PASS
66	10.0	132322	1745.0	16QAM	1@0	-29.72	-13	PASS
66	10.0	132622	1775.0	QPSK	1@0	-29.88	-13	PASS
66	10.0	132622	1775.0	16QAM	1@0	-29.25	-13	PASS
66	5.0	131997	1712.5	QPSK	1@0	-30.01	-13	PASS
66	5.0	131997	1712.5	16QAM	1@0	-30.3	-13	PASS
66	5.0	132322	1745.0	QPSK	1@0	-29.79	-13	PASS
66	5.0	132322	1745.0	16QAM	1@0	-29.97	-13	PASS
66	5.0	132647	1777.5	QPSK	1@0	-29.14	-13	PASS
66	5.0	132647	1777.5	16QAM	1@0	-30.08	-13	PASS
66	3.0	131987	1711.5	QPSK	1@0	-30.12	-13	PASS
66	3.0	131987	1711.5	16QAM	1@0	-30.07	-13	PASS
66	3.0	132322	1745.0	QPSK	1@0	-29.97	-13	PASS
66	3.0	132322	1745.0	16QAM	1@0	-29.88	-13	PASS
66	3.0	132657	1778.5	QPSK	1@0	-29.94	-13	PASS
66	3.0	132657	1778.5	16QAM	1@0	-30.19	-13	PASS
66	1.4	131979	1710.7	QPSK	1@0	-29.82	-13	PASS
66	1.4	131979	1710.7	16QAM	1@0	-29.4	-13	PASS
66	1.4	132322	1745.0	QPSK	1@0	-29.45	-13	PASS
66	1.4	132322	1745.0	16QAM	1@0	-29.83	-13	PASS
66	1.4	132665	1779.3	QPSK	1@0	-29.69	-13	PASS
66	1.4	132665	1779.3	16QAM	1@0	-29.42	-13	PASS

Test Graphs

B66 20M QPSK 1@0 CH 132072



B66 20M 16QAM 1@0 CH 132072



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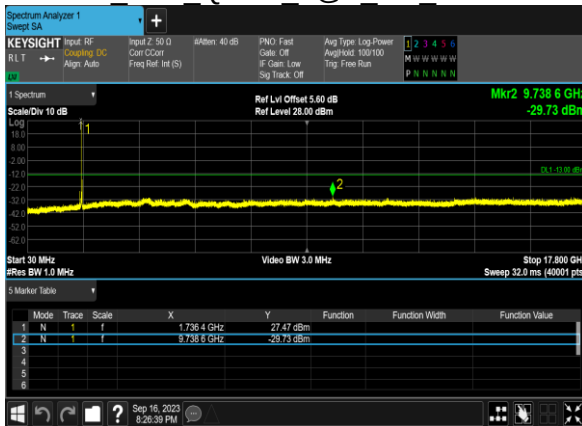
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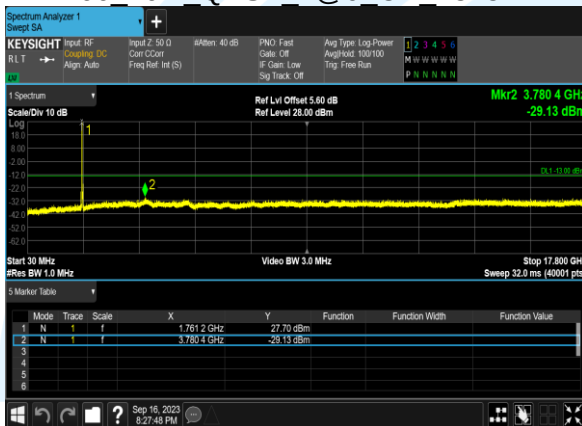
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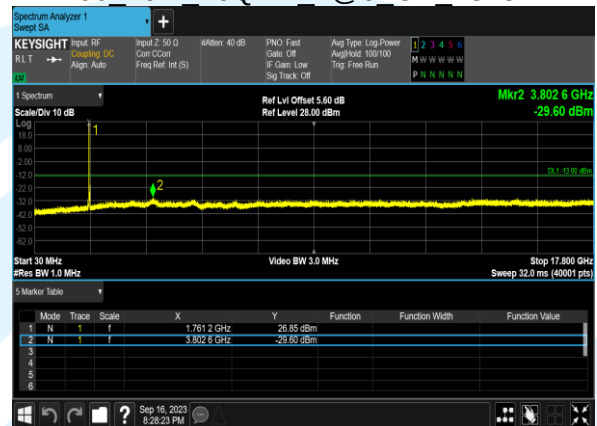
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B66_20M_QPSK_1@0_CH_132572



B66_20M_16QAM_1@0_CH_132572



B66_15M_QPSK_1@0_CH_132047



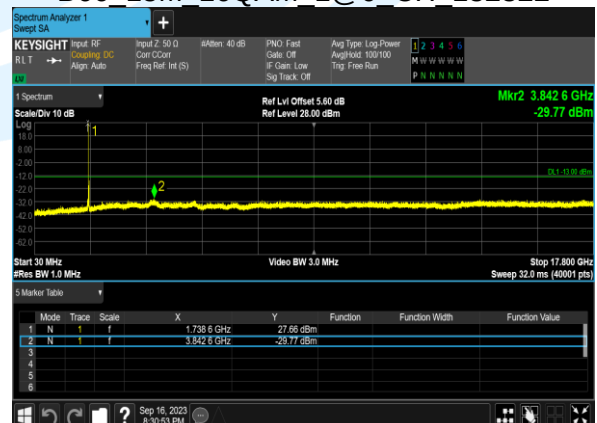
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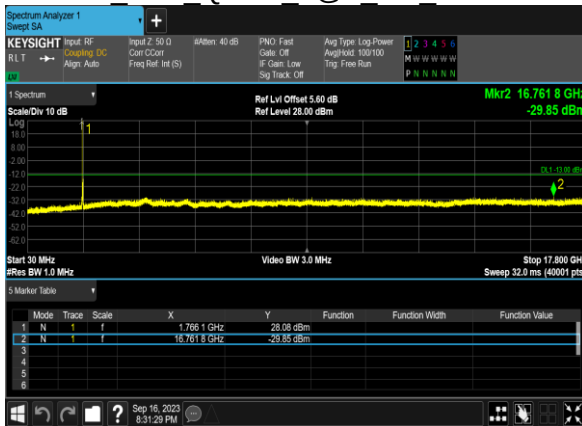
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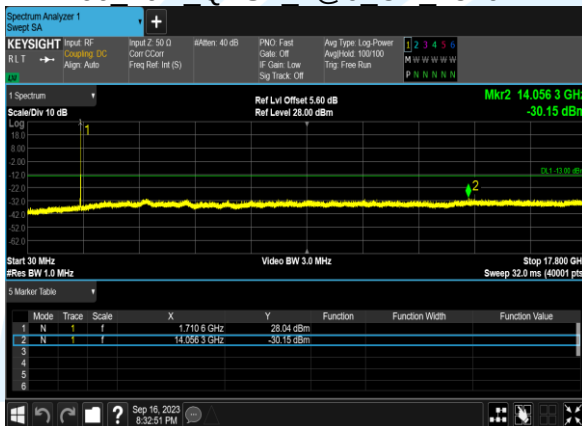
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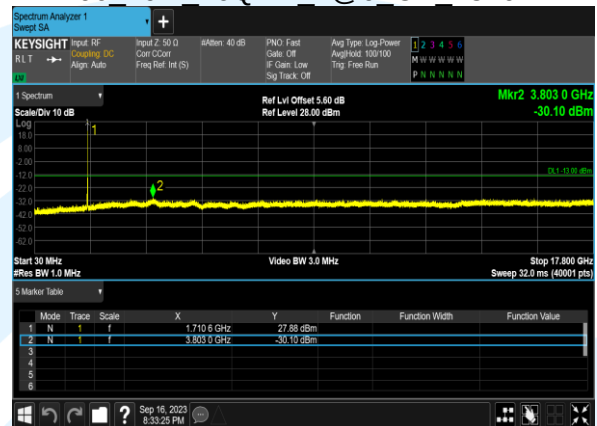
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B66_10M QPSK 1@0 CH 132022



B66_10M 16QAM 1@0 CH 132022



B66_10M QPSK 1@0 CH 132322



B66_10M 16QAM 1@0 CH 132322



B66_10M QPSK 1@0 CH 132622



B66_10M 16QAM 1@0 CH 132622



B66 5M QPSK 1@0 CH 131997



B66 5M 16QAM 1@0 CH 131997



B66 5M QPSK 1@0 CH 132322



B66 5M 16QAM 1@0 CH 132322



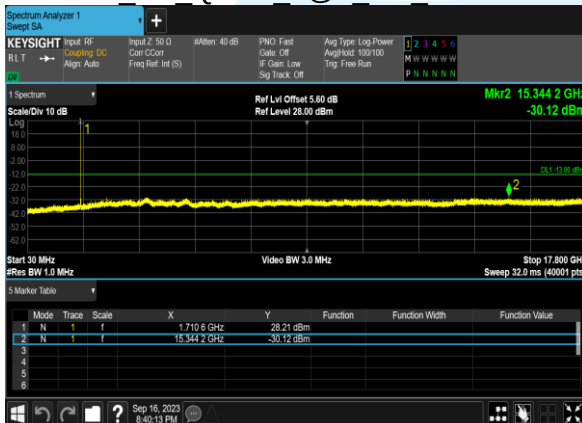
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B66 5M 16QAM 1@0 CH 132647



B66 3M QPSK 1@0 CH 131987



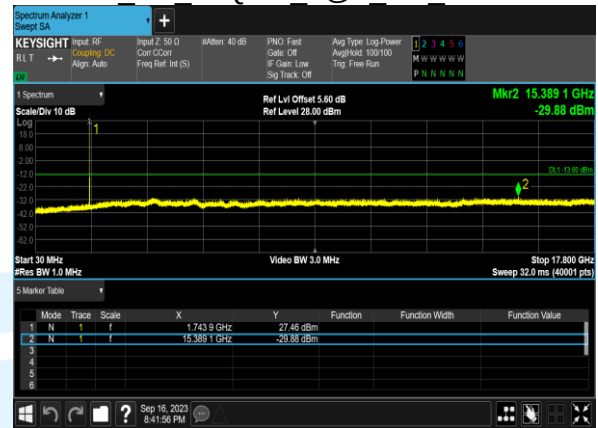
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B66 3M QPSK 1@0 CH 132322



B66 3M 16QAM 1@0 CH 132322



B66 3M QPSK 1@0 CH 132657



B66 3M 16QAM 1@0 CH 132657



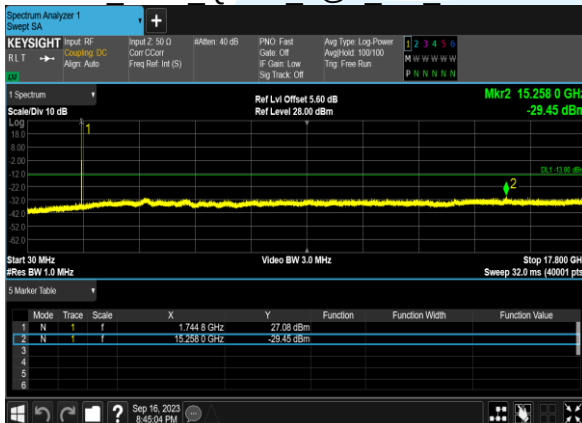
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B66 1.4M 16QAM 1@0 CH 131979



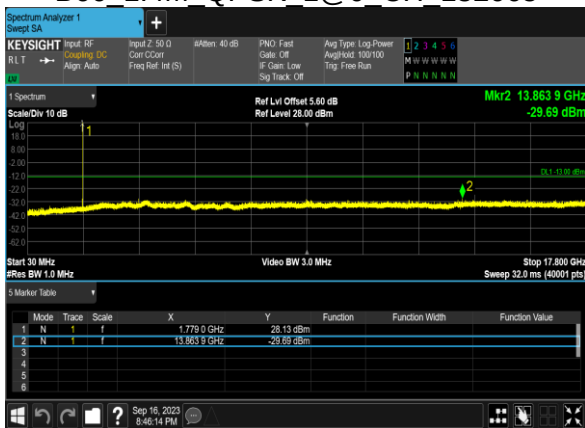
B66 1.4M QPSK 1@0 CH 132322



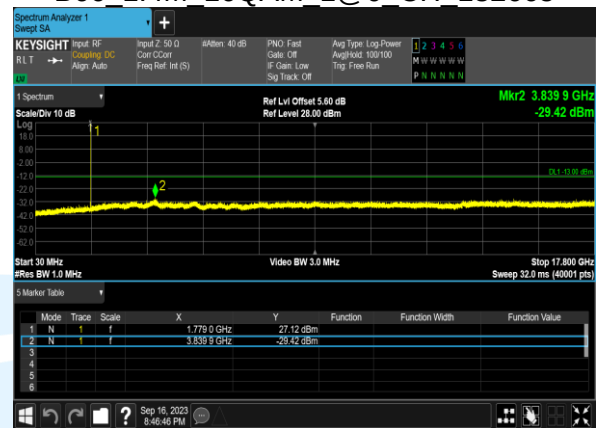
B66 1.4M 16QAM 1@0 CH 132322



B66 1.4M QPSK 1@0 CH 132665



B66 1.4M 16QAM 1@0 CH 132665



Band	Bandwidth (MHz)	Channel	Freq (MHz)	Modulation	RB	Result	Verdict
66	20.0	132072	1720.0	QPSK	1@0	see graph	PASS
66	20.0	132072	1720.0	QPSK	100@0	see graph	PASS
66	20.0	132072	1720.0	16QAM	1@0	see graph	PASS
66	20.0	132072	1720.0	16QAM	100@0	see graph	PASS
66	20.0	132572	1770.0	QPSK	1@99	see graph	PASS
66	20.0	132572	1770.0	QPSK	100@0	see graph	PASS
66	20.0	132572	1770.0	16QAM	1@99	see graph	PASS
66	20.0	132572	1770.0	16QAM	100@0	see graph	PASS
66	15.0	132047	1717.5	QPSK	1@0	see graph	PASS
66	15.0	132047	1717.5	QPSK	75@0	see graph	PASS
66	15.0	132047	1717.5	16QAM	1@0	see graph	PASS
66	15.0	132047	1717.5	16QAM	75@0	see graph	PASS
66	15.0	132597	1772.5	QPSK	1@74	see graph	PASS
66	15.0	132597	1772.5	QPSK	75@0	see graph	PASS
66	15.0	132597	1772.5	16QAM	1@74	see graph	PASS
66	15.0	132597	1772.5	16QAM	75@0	see graph	PASS
66	10.0	132022	1715.0	QPSK	1@0	see graph	PASS
66	10.0	132022	1715.0	QPSK	50@0	see graph	PASS
66	10.0	132022	1715.0	16QAM	1@0	see graph	PASS
66	10.0	132022	1715.0	16QAM	50@0	see graph	PASS
66	10.0	132622	1775.0	QPSK	1@49	see graph	PASS
66	10.0	132622	1775.0	QPSK	50@0	see graph	PASS
66	10.0	132622	1775.0	16QAM	1@49	see graph	PASS
66	10.0	132622	1775.0	16QAM	50@0	see graph	PASS
66	5.0	131997	1712.5	QPSK	1@0	see graph	PASS
66	5.0	131997	1712.5	QPSK	25@0	see graph	PASS
66	5.0	131997	1712.5	16QAM	1@0	see graph	PASS
66	5.0	131997	1712.5	16QAM	25@0	see graph	PASS
66	5.0	132647	1777.5	QPSK	1@24	see graph	PASS
66	5.0	132647	1777.5	QPSK	25@0	see graph	PASS
66	5.0	132647	1777.5	16QAM	1@24	see graph	PASS
66	5.0	132647	1777.5	16QAM	25@0	see graph	PASS
66	3.0	131987	1711.5	QPSK	1@0	see graph	PASS
66	3.0	131987	1711.5	QPSK	15@0	see graph	PASS
66	3.0	131987	1711.5	16QAM	1@0	see graph	PASS
66	3.0	131987	1711.5	16QAM	15@0	see graph	PASS
66	3.0	132657	1778.5	QPSK	1@14	see graph	PASS
66	3.0	132657	1778.5	QPSK	15@0	see graph	PASS
66	3.0	132657	1778.5	16QAM	1@14	see graph	PASS
66	3.0	132657	1778.5	16QAM	15@0	see graph	PASS
66	1.4	131979	1710.7	QPSK	1@0	see graph	PASS
66	1.4	131979	1710.7	QPSK	6@0	see graph	PASS
66	1.4	131979	1710.7	16QAM	1@0	see graph	PASS
66	1.4	131979	1710.7	16QAM	6@0	see graph	PASS
66	1.4	132665	1779.3	QPSK	1@5	see graph	PASS
66	1.4	132665	1779.3	QPSK	6@0	see graph	PASS
66	1.4	132665	1779.3	16QAM	1@5	see graph	PASS
66	1.4	132665	1779.3	16QAM	6@0	see graph	PASS

Spectrum Analyzer 1
Spurious Emissions

KEYSIGHT Input RF
RIT $\leftrightarrow$ **Capacitance DC**
Align Auto

Input2: 50.0
Corr C/Cor
Freq Ref: Int (S)

Atten: 40 dB

Trig: Free Run
Gate: Off
IF Gen: Low

Center Freq: 22.000000000 GHz
AgtkHold: 100/100
Radio Stk: None

dB PASS

3.4 dB Range Graph

Scale/Div: 10.0 dB

Ref Lvl Offset: 5.00 dB
Ref Value: 23.00 dBm

Start: 1.700 GHz
Stop: 1.712 GHz

4 All Range Table

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	ΔLimit
1	1	1.70000 GHz	1.70200 GHz	1.000 MHz	1.7095200000 GHz	-27.44 dBm	
2	2	1.70900 GHz	1.71000 GHz	200.0 kHz	1.70996667 GHz	-38.48 dBm	-28.48 dBm
3	3	1.71000 GHz	1.71200 GHz	100.0 kHz	1.711070000 GHz	-20.13 dBm	-8.668 dBm

Measure Trace
Trace Type
Trace 1
Trace Average: (Active)

Sep 16, 2023
8:47:03 PM

The screenshot displays a Spectrum Analyzer interface. At the top, the title bar reads "Spectrum Analyzer 1" and "Source: External". Below this, the "KEYSIGHT" logo is visible. The main display area shows a spectrum plot with a yellow trace. The plot has a red reference line at 10.0 dBm and a yellow trace that is mostly flat at approximately -45 dBm, with a sharp rise to about -30 dBm at the right edge. The plot is labeled "Scale/Div 10.0 dB" and "Ref Lvl Offset 5.00 dB".

Below the plot, there is a table titled "4 All Range Table" which lists measured traces. The table has columns for Spur, Range, Start Freq, Stop Freq, RBW, Frequency, Amplitude, and dBm. The table contains three rows of data.

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	dBm
1	2	1.7090 GHz	1.7100 GHz	200.0 kHz	1.7095000 GHz	-34.51 dBm	-19.35 dB
2	2	1.7090 GHz	1.7100 GHz	200.0 kHz	1.7098333 GHz	-37.32 dBm	-24.32 dB
3	3	1.7100 GHz	1.7120 GHz	100.0 kHz	1.7118333 GHz	-1.031 dBm	-31.03 dB

At the bottom of the interface, there is a status bar showing the date and time: "Sep 16, 2023 8:47:15 PM".