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PART 27 MEASUREMENT REPORT

Applicant Name:
Microsoft Corporation
One Microsoft Way
Redmond, WA 98052
United States

Date of Testing:
12/3/2024 – 3/12/2025
Test Report Issue Date:
4/17/2025
Test Site/Location:
Element Lab., Columbia, MD, USA
Test Report Serial No.:
1M2411190103-05-R2.C3K

FCC ID:	**C3K2114**
APPLICANT:	**Microsoft Corporation**

Application Type:	Certification
Model:	2114
EUT Type:	Full Modular
FCC Classification:	PCS Licensed Transmitter (PCB)
FCC Rule Part:	27
Test Procedure(s):	ANSI C63.26-2015

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

This revised Test Report (S/N: 1M2411190103-05-R2.C3K) supersedes and replaces the previously issued test report (S/N: 1M2411190103-05-R1.C3K) on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

RJ Ortanez
Executive Vice President

ACCREDITED
CERT #2041.01

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PART 27 MEASUREMENT REPORT

Antenna-6						
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
NR Band n77 PC2 (3450 - 3550MHz)	100 MHz	π/2 BPSK	3500.0	0.839	29.24	96M7G7D
		QPSK	3500.0	0.822	29.15	98M0G7D
		16QAM	3500.0	0.565	27.52	97M9W7D
	90 MHz	π/2 BPSK	3495.0 - 3505.0	0.786	28.95	87M3G7D
		QPSK	3495.0 - 3505.0	0.796	29.01	88M0G7D
		16QAM	3495.0 - 3505.0	0.617	27.90	87M9W7D
	80 MHz	π/2 BPSK	3490.0 - 3510.0	0.752	28.76	77M4G7D
		QPSK	3490.0 - 3510.0	0.769	28.86	78M0G7D
		16QAM	3490.0 - 3510.0	0.631	28.00	77M8W7D
	70 MHz	π/2 BPSK	3485.0 - 3515.0	0.760	28.81	64M6G7D
		QPSK	3485.0 - 3515.0	0.766	28.84	67M9G7D
		16QAM	3485.0 - 3515.0	0.646	28.10	67M9W7D
	60 MHz	π/2 BPSK	3480.0 - 3520.0	0.800	29.03	58M1G7D
		QPSK	3480.0 - 3520.0	0.800	29.03	58M2G7D
		16QAM	3480.0 - 3520.0	0.653	28.15	58M3W7D
	50 MHz	π/2 BPSK	3475.0 - 3525.0	0.794	29.00	45M9G7D
		QPSK	3475.0 - 3525.0	0.805	29.06	47M7G7D
		16QAM	3475.0 - 3525.0	0.661	28.20	47M7W7D
	40 MHz	π/2 BPSK	3470.0 - 3530.0	0.838	29.23	35M9G7D
		QPSK	3470.0 - 3530.0	0.843	29.26	38M0G7D
		16QAM	3470.0 - 3530.0	0.700	28.45	38M1W7D
	30 MHz	π/2 BPSK	3465.0 - 3535.0	0.845	29.27	27M1G7D
		QPSK	3465.0 - 3535.0	0.838	29.23	28M1G7D
		16QAM	3465.0 - 3535.0	0.689	28.38	28M1W7D
	20 MHz	π/2 BPSK	3460.0 - 3540.0	0.849	29.29	18M0G7D
		QPSK	3460.0 - 3540.0	0.839	29.24	18M4G7D
		16QAM	3460.0 - 3540.0	0.711	28.52	18M4W7D
	15 MHz	π/2 BPSK	3457.5 - 3542.5	0.855	29.32	13M0G7D
		QPSK	3457.5 - 3542.5	0.839	29.24	13M7G7D
		16QAM	3457.5 - 3542.5	0.698	28.44	13M7W7D
	10 MHz	π/2 BPSK	3455.0 - 3545.0	0.804	29.05	8M69G7D
		QPSK	3455.0 - 3545.0	0.815	29.11	8M66G7D
		16QAM	3455.0 - 3545.0	0.647	28.11	8M66W7D
NR Band n77 PC2 (3700 - 3980MHz)	100 MHz	π/2 BPSK	3750.0 - 3930.0	0.727	28.62	96M9G7D
		QPSK	3750.0 - 3930.0	0.739	28.68	97M9G7D
		16QAM	3750.0 - 3930.0	0.609	27.85	98M0W7D
	90 MHz	π/2 BPSK	3745.0 - 3935.0	0.653	28.15	87M2G7D
		QPSK	3745.0 - 3935.0	0.670	28.26	88M1G7D
		16QAM	3745.0 - 3935.0	0.522	27.18	88M1W7D
	80 MHz	π/2 BPSK	3740.0 - 3940.0	0.655	28.16	77M4G7D
		QPSK	3740.0 - 3940.0	0.667	28.24	78M0G7D
		16QAM	3740.0 - 3940.0	0.564	27.51	77M6W7D
	70 MHz	π/2 BPSK	3735.0 - 3945.0	0.658	28.18	64M4G7D
		QPSK	3735.0 - 3945.0	0.658	28.18	67M8G7D
		16QAM	3735.0 - 3945.0	0.538	27.31	67M7W7D
	60 MHz	π/2 BPSK	3730.0 - 3950.0	0.698	28.44	58M1G7D
		QPSK	3730.0 - 3950.0	0.692	28.40	58M3G7D
		16QAM	3730.0 - 3950.0	0.558	27.47	58M3W7D
	50 MHz	π/2 BPSK	3725.0 - 3955.0	0.698	28.44	45M9G7D
		QPSK	3725.0 - 3955.0	0.706	28.49	47M6G7D
		16QAM	3725.0 - 3955.0	0.601	27.79	47M8W7D
	40 MHz	π/2 BPSK	3720.0 - 3960.0	0.760	28.81	35M9G7D
		QPSK	3720.0 - 3960.0	0.755	28.78	38M1G7D
		16QAM	3720.0 - 3960.0	0.589	27.70	38M1W7D
	30 MHz	π/2 BPSK	3715.0 - 3965.0	0.723	28.59	27M1G7D
		QPSK	3715.0 - 3965.0	0.731	28.64	28M0G7D
		16QAM	3715.0 - 3965.0	0.621	27.93	28M1W7D
	20 MHz	π/2 BPSK	3710.0 - 3970.0	0.750	28.75	18M0G7D
		QPSK	3710.0 - 3970.0	0.750	28.75	18M3G7D
		16QAM	3710.0 - 3970.0	0.646	28.10	18M4W7D
	15 MHz	π/2 BPSK	3707.5 - 3972.5	0.735	28.66	13M0G7D
		QPSK	3707.5 - 3972.5	0.740	28.69	13M7G7D
		16QAM	3707.5 - 3972.5	0.605	27.82	13M8W7D
	10 MHz	π/2 BPSK	3705.0 - 3975.0	0.738	28.68	8M64G7D
		QPSK	3705.0 - 3975.0	0.705	28.48	8M68G7D
		16QAM	3705.0 - 3975.0	0.593	27.73	8M69W7D

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Antenna-1						
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
NR Band n77 PC2 (3450 - 3550MHz)	100 MHz	π/2 BPSK	3500.0	0.806	29.06	96M9G7D
		QPSK	3500.0	0.787	28.96	96M7G7D
		16QAM	3500.0	0.662	28.21	96M8W7D
	90 MHz	π/2 BPSK	3495.0 - 3505.0	0.682	28.34	87M0G7D
		QPSK	3495.0 - 3505.0	0.700	28.45	87M1G7D
		16QAM	3495.0 - 3505.0	0.538	27.31	87M5W7D
	80 MHz	π/2 BPSK	3490.0 - 3510.0	0.684	28.35	77M6G7D
		QPSK	3490.0 - 3510.0	0.664	28.22	77M6G7D
		16QAM	3490.0 - 3510.0	0.532	27.26	77M4W7D
	70 MHz	π/2 BPSK	3485.0 - 3515.0	0.667	28.24	64M7G7D
		QPSK	3485.0 - 3515.0	0.679	28.32	64M7G7D
		16QAM	3485.0 - 3515.0	0.535	27.28	64M7W7D
	60 MHz	π/2 BPSK	3480.0 - 3520.0	0.701	28.46	58M1G7D
		QPSK	3480.0 - 3520.0	0.687	28.37	58M2G7D
		16QAM	3480.0 - 3520.0	0.571	27.57	58M3W7D
	50 MHz	π/2 BPSK	3475.0 - 3525.0	0.700	28.45	46M0G7D
		QPSK	3475.0 - 3525.0	0.693	28.41	46M0G7D
		16QAM	3475.0 - 3525.0	0.569	27.55	46M0W7D
	40 MHz	π/2 BPSK	3470.0 - 3530.0	0.746	28.73	35M8G7D
		QPSK	3470.0 - 3530.0	0.769	28.86	35M9G7D
		16QAM	3470.0 - 3530.0	0.592	27.72	35M9W7D
	30 MHz	π/2 BPSK	3465.0 - 3535.0	0.745	28.72	27M0G7D
		QPSK	3465.0 - 3535.0	0.740	28.69	27M0G7D
		16QAM	3465.0 - 3535.0	0.597	27.76	27M0W7D
	20 MHz	π/2 BPSK	3460.0 - 3540.0	0.723	28.59	18M0G7D
		QPSK	3460.0 - 3540.0	0.743	28.71	18M0G7D
		16QAM	3460.0 - 3540.0	0.627	27.97	18M0W7D
	15 MHz	π/2 BPSK	3457.5 - 3542.5	0.736	28.67	13M0G7D
		QPSK	3457.5 - 3542.5	0.724	28.60	13M0G7D
		16QAM	3457.5 - 3542.5	0.621	27.93	13M0W7D
	10 MHz	π/2 BPSK	3455.0 - 3545.0	0.711	28.52	8M68G7D
		QPSK	3455.0 - 3545.0	0.716	28.55	8M70G7D
		16QAM	3455.0 - 3545.0	0.592	27.72	8M65W7D
NR Band n77 PC2 (3700 - 3980MHz)	100 MHz	π/2 BPSK	3750.0 - 3930.0	0.718	28.56	96M7G7D
		QPSK	3750.0 - 3930.0	0.728	28.62	96M9G7D
		16QAM	3750.0 - 3930.0	0.589	27.70	96M8W7D
	90 MHz	π/2 BPSK	3745.0 - 3935.0	0.638	28.05	87M1G7D
		QPSK	3745.0 - 3935.0	0.638	28.05	87M2G7D
		16QAM	3745.0 - 3935.0	0.525	27.20	87M3W7D
	80 MHz	π/2 BPSK	3740.0 - 3940.0	0.641	28.07	77M4G7D
		QPSK	3740.0 - 3940.0	0.650	28.13	77M4G7D
		16QAM	3740.0 - 3940.0	0.530	27.24	77M4W7D
	70 MHz	π/2 BPSK	3735.0 - 3945.0	0.647	28.11	64M9G7D
		QPSK	3735.0 - 3945.0	0.635	28.03	64M7G7D
		16QAM	3735.0 - 3945.0	0.653	28.15	64M6W7D
	60 MHz	π/2 BPSK	3730.0 - 3950.0	0.543	27.35	58M1G7D
		QPSK	3730.0 - 3950.0	0.661	28.20	58M1G7D
		16QAM	3730.0 - 3950.0	0.574	27.59	58M0W7D
	50 MHz	π/2 BPSK	3725.0 - 3955.0	0.667	28.24	46M0G7D
		QPSK	3725.0 - 3955.0	0.693	28.41	46M0G7D
		16QAM	3725.0 - 3955.0	0.585	27.67	46M0W7D
	40 MHz	π/2 BPSK	3720.0 - 3960.0	0.708	28.50	35M9G7D
		QPSK	3720.0 - 3960.0	0.736	28.67	35M9G7D
		16QAM	3720.0 - 3960.0	0.586	27.68	35M8W7D
	30 MHz	π/2 BPSK	3715.0 - 3965.0	0.713	28.53	27M0G7D
		QPSK	3715.0 - 3965.0	0.728	28.62	27M0G7D
		16QAM	3715.0 - 3965.0	0.601	27.79	27M0W7D
	20 MHz	π/2 BPSK	3710.0 - 3970.0	0.703	28.47	18M1G7D
		QPSK	3710.0 - 3970.0	0.716	28.55	18M0G7D
		16QAM	3710.0 - 3970.0	0.598	27.77	18M0W7D
	15 MHz	π/2 BPSK	3707.5 - 3972.5	0.711	28.52	13M0G7D
		QPSK	3707.5 - 3972.5	0.697	28.43	13M1G7D
		16QAM	3707.5 - 3972.5	0.558	27.47	12M9W7D
	10 MHz	π/2 BPSK	3705.0 - 3975.0	0.695	28.42	8M68G7D
		QPSK	3705.0 - 3975.0	0.693	28.41	8M67G7D
		16QAM	3705.0 - 3975.0	0.579	27.63	8M72W7D

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SRS-3						
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
NR Band n77 PC2 (3450 - 3550MHz)	100 MHz	π/2 BPSK	3500.0	0.757	28.79	96M7G7D
		QPSK	3500.0	0.760	28.81	96M8G7D
		16QAM	3500.0	0.609	27.85	96M7W7D
NR Band n77 PC2 (3700 - 3980MHz)	100 MHz	π/2 BPSK	3750.0 - 3930.0	0.674	28.29	97M2G7D
		QPSK	3750.0 - 3930.0	0.678	28.31	96M7G7D
		16QAM	3750.0 - 3930.0	0.549	27.40	96M9W7D

SRS-4						
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
NR Band n77 PC2 (3450 - 3550MHz)	100 MHz	π/2 BPSK	3500.0	0.719	28.57	96M9G7D
		QPSK	3500.0	0.732	28.65	97M9G7D
		16QAM	3500.0	0.564	27.52	97M9W7D
NR Band n77 PC2 (3700 - 3980MHz)	100 MHz	π/2 BPSK	3750.0 - 3930.0	0.679	28.32	96M9G7D
		QPSK	3750.0 - 3930.0	0.676	28.30	96M4G7D
		16QAM	3750.0 - 3930.0	0.577	27.62	96M7W7D

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UL-MIMO PC1.5 Antenna 6 &1						
Mode	Bandwidth	Modulation	Tx Frequency Range [MHz]	EIRP		Emission Designator
				Max. Power [W]	Max. Power [dBm]	
NR Band n77 PC2 (3450 - 3550MHz) UL-MIMO PC1.5 Antenna 6 &1	100 MHz	π/2 BPSK	3500.0	0.697	28.43	96M7G7D
		QPSK	3500.0	0.690	28.39	98M0G7D
		16QAM	3500.0	0.577	27.61	97M9W7D
	90 MHz	π/2 BPSK	3495.0 - 3505.0	0.708	28.50	87M3G7D
		QPSK	3495.0 - 3505.0	0.698	28.44	88M0G7D
		16QAM	3495.0 - 3505.0	0.586	27.68	87M9W7D
	80 MHz	π/2 BPSK	3490.0 - 3510.0	0.687	28.37	77M4G7D
		QPSK	3490.0 - 3510.0	0.698	28.44	78M0G7D
		16QAM	3490.0 - 3510.0	0.575	27.60	77M8W7D
	70 MHz	π/2 BPSK	3485.0 - 3515.0	0.701	28.46	64M6G7D
		QPSK	3485.0 - 3515.0	0.706	28.49	67M9G7D
		16QAM	3485.0 - 3515.0	0.575	27.60	67M9W7D
	60 MHz	π/2 BPSK	3480.0 - 3520.0	0.735	28.66	58M1G7D
		QPSK	3480.0 - 3520.0	0.740	28.69	58M2G7D
		16QAM	3480.0 - 3520.0	0.600	27.78	58M3W7D
	50 MHz	π/2 BPSK	3475.0 - 3525.0	0.731	28.64	45M9G7D
		QPSK	3475.0 - 3525.0	0.729	28.63	47M7G7D
		16QAM	3475.0 - 3525.0	0.610	27.85	47M7W7D
	40 MHz	π/2 BPSK	3470.0 - 3530.0	0.766	28.84	35M9G7D
		QPSK	3470.0 - 3530.0	0.773	28.88	38M0G7D
		16QAM	3470.0 - 3530.0	0.612	27.87	38M1W7D
	30 MHz	π/2 BPSK	3465.0 - 3535.0	0.776	28.90	27M1G7D
		QPSK	3465.0 - 3535.0	0.762	28.82	28M1G7D
		16QAM	3465.0 - 3535.0	0.652	28.14	28M1W7D
	20 MHz	π/2 BPSK	3460.0 - 3540.0	0.771	28.87	18M0G7D
		QPSK	3460.0 - 3540.0	0.778	28.91	18M4G7D
		16QAM	3460.0 - 3540.0	0.640	28.06	18M4W7D
	15 MHz	π/2 BPSK	3457.5 - 3542.5	0.773	28.88	13M0G7D
		QPSK	3457.5 - 3542.5	0.769	28.86	13M7G7D
		16QAM	3457.5 - 3542.5	0.615	27.89	13M7W7D
	10 MHz	π/2 BPSK	3455.0 - 3545.0	0.729	28.63	8M69G7D
		QPSK	3455.0 - 3545.0	0.736	28.67	8M66G7D
		16QAM	3455.0 - 3545.0	0.596	27.75	8M66W7D
NR Band n77 PC2 (3700 - 3980MHz) UL-MIMO PC1.5 Antenna 6 &1	100 MHz	π/2 BPSK	3750.0 - 3930.0	0.649	28.12	96M9G7D
		QPSK	3750.0 - 3930.0	0.631	28.00	97M9G7D
		16QAM	3750.0 - 3930.0	0.515	27.12	98M0W7D
	90 MHz	π/2 BPSK	3745.0 - 3935.0	0.614	27.88	87M2G7D
		QPSK	3745.0 - 3935.0	0.622	27.94	88M1G7D
		16QAM	3745.0 - 3935.0	0.519	27.15	88M1W7D
	80 MHz	π/2 BPSK	3740.0 - 3940.0	0.618	27.91	77M4G7D
		QPSK	3740.0 - 3940.0	0.621	27.93	78M0G7D
		16QAM	3740.0 - 3940.0	0.553	27.43	77M6W7D
	70 MHz	π/2 BPSK	3735.0 - 3945.0	0.625	27.96	64M4G7D
		QPSK	3735.0 - 3945.0	0.630	27.99	67M8G7D
		16QAM	3735.0 - 3945.0	0.530	27.24	67M7W7D
	60 MHz	π/2 BPSK	3730.0 - 3950.0	0.628	27.98	58M1G7D
		QPSK	3730.0 - 3950.0	0.647	28.11	58M3G7D
		16QAM	3730.0 - 3950.0	0.569	27.55	58M3W7D
	50 MHz	π/2 BPSK	3725.0 - 3955.0	0.658	28.18	45M9G7D
		QPSK	3725.0 - 3955.0	0.661	28.20	47M6G7D
		16QAM	3725.0 - 3955.0	0.571	27.57	47M8W7D
	40 MHz	π/2 BPSK	3720.0 - 3960.0	0.705	28.48	35M9G7D
		QPSK	3720.0 - 3960.0	0.705	28.48	38M1G7D
		16QAM	3720.0 - 3960.0	0.578	27.62	38M1W7D
	30 MHz	π/2 BPSK	3715.0 - 3965.0	0.684	28.35	27M1G7D
		QPSK	3715.0 - 3965.0	0.693	28.41	28M0G7D
		16QAM	3715.0 - 3965.0	0.560	27.48	28M1W7D
	20 MHz	π/2 BPSK	3710.0 - 3970.0	0.703	28.47	18M0G7D
		QPSK	3710.0 - 3970.0	0.703	28.47	18M3G7D
		16QAM	3710.0 - 3970.0	0.596	27.75	18M4W7D
	15 MHz	π/2 BPSK	3707.5 - 3972.5	0.685	28.36	13M0G7D
		QPSK	3707.5 - 3972.5	0.684	28.35	13M7G7D
		16QAM	3707.5 - 3972.5	0.551	27.41	13M8W7D
	10 MHz	π/2 BPSK	3705.0 - 3975.0	0.661	28.20	8M64G7D
		QPSK	3705.0 - 3975.0	0.662	28.21	8M68G7D
		16QAM	3705.0 - 3975.0	0.561	27.49	8M69W7D

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1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EMC) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Innovation, Science and Economic Development Canada.

1.2 Element Test Location

Measurements were conducted at the Element laboratory(ies) indicated in Section 1.3 below. All measurement facilities are compliant with the test site requirements specified in ANSI C63.4-2014 and KDB 414788 D01 v01r01.

1.3 Test Facility / Accreditations

Measurements were performed at Element lab located in Columbia, MD 21046, U.S.A.

- Element Washington DC LLC is an ISO 17025-2017 accredited test facility under the American Association for Laboratory Accreditation (A2LA) with Certificate number 2041.01 for Specific Absorption Rate (SAR), Hearing Aid Compatibility (HAC) testing, where applicable, and Electromagnetic Compatibility (EMC) testing for FCC and Innovation, Science, and Economic Development Canada rules.

- Element Washington DC LLC TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC 17065-2012 by A2LA (Certificate number 2041.03) in all scopes of FCC Rules and ISED Standards (RSS).

- Element Washington DC LLC facility is a registered (2451B) test laboratory with the site description on file with ISED.

- Element Washington DC LLC is a Recognized U.S. Certification Assessment Body (CAB # US0110) for ISED Canada as designated by NIST under the U.S. and Canada Mutual Recognition Agreements (MRAs).

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2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Microsoft Corporation Full Modular FCC ID: C3K2114**. The test data contained in this report pertains only to the emissions due to the EUT's licensed transmitters that operate under the provisions of Part 27.

Test Device Serial No.: 004400152020002 (EV2#48, EV2#37, EV2#49, EV2#47)

2.2 Device Capabilities

This device contains the following capabilities:

850/1700/1900 WCDMA/HSPA, Multi-band LTE, Multi-band 5G NR (FR1)

2.3 Test Configuration

The EUT was tested per the guidance of ANSI C63.26-2015. See Section 7.0 of this test report for a description of the radiated and antenna port conducted emissions tests.

2.4 Software and Firmware

Testing was performed on device(s) using software/firmware version 250129-XXX-de2e260-00452-1 installed on the EUT.

2.5 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

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3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the "American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services" (ANSI C63.26-2015) were used in the measurement of the EUT**.**

Deviation from Measurement Procedure……..None

3.2 Radiated Spurious Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Figure 5.7 of Clause 5 in ANSI C63.4-2014. Absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections for measurements above 1GHz. For measurements below 1GHz, the absorbers are removed. A raised turntable is used for radiated measurement. The turn table is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. An 80cm tall test table made of Styrodur is placed on top of the turn table. A Styrodur pedestal is placed on top of the test table to bring the total table height to 1.5m.

The equipment under test was transmitting while connected to its integral antenna and is placed on a turntable 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer.

For radiated spurious emissions measurements, the field strength conversion method is used per the formulas in Section 5.2.7 of ANSI C63.26-2015. Field Strength (EIRP) is calculated using the following formulas:

$$E_{[dB\mu V/m]} = \text{Measured amplitude level}_{[dBm]} + 107 + \text{Cable Loss}_{[dB]} + \text{Antenna Factor}_{[dB/m]}$$

And

$$EIRP_{[dBm]} = E_{[dB\mu V/m]} + 20\log D - 104.8;$$ where D is the measurement distance in meters.

All radiated measurements are performed in a chamber that meets the site requirements per ANSI C63.4-2014. Additionally, radiated emissions below 30MHz are also validated on an Open Area Test Site to assert correlation with the chamber measurements per the requirements of KDB 414788 D01 v01r01.

Radiated spurious emission levels are investigated with the receive antenna horizontally and vertically polarized per ANSI C63.26-2015.

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4.0 MEASUREMENT UNCERTAINTY

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.4-2014. All measurement uncertainty values are shown with a coverage factor of k = 2 to indicate a 95% level of confidence. The measurement uncertainty shown below meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and, thus, can be compared directly to specified limits to determine compliance.

Contribution	Expanded Uncertainty (±dB)
Conducted Bench Top Measurements	1.13
Radiated Disturbance (<1GHz)	4.98
Radiated Disturbance (>1GHz)	5.07
Radiated Disturbance (>18GHz)	5.09

Table 4-1. Measurement Uncertainty Budget

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5.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST). Measurements antennas used during testing were calibrated in accordance to the requirements of ANSI C63.5-2017.

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	LTx1	Licensed Transmitter Cable Set	4/2/2024	Annual	4/2/2025	LTx1
-	LTx2	Licensed Transmitter Cable Set	4/2/2024	Annual	4/2/2025	LTx2
-	LTx3	LIcensed Transmitter Cable Set	4/2/2024	Annual	4/2/2025	LTx3
-	WL25-1	Conducted Cable Set (25GHz)	4/2/2024	Annual	4/2/2025	WL25-1
-	WL40-1	Conducted Cable Set (40GHz)	4/2/2024	Annual	4/2/2025	WL40-1
Agilent	N9020A	MXA Signal Analyzer	3/22/2024	Annual	3/22/2025	US46470561
Agilent	N9038A	MXE EMI Receiver	9/16/2024	Annual	9/16/2025	MY51210133
Agilent	N9030A	PXA Signal Analyzer (44GHz)	4/9/2024	Annual	4/9/2025	MY52350166
Anritsu	MT8821C	Radio Communication Analyzer	N/A			6201381794
Anritsu	MT8821C	Radio Communication Analyzer	N/A			6200901190
Emco	3115	Horn Antenna (1-18GHz)	6/7/2024	Biennial	6/7/2026	150693
Espec	ESX-2CA	Environmental Chamber	7/5/2023	Annual	7/5/2025	17620
ETS Lindgren	3164-08	Quad Ridge Horn Antenna	3/29/2023	Biennial	3/29/2025	128337
Keysight Technologies	N9030A	PXA Signal Analyzer (3Hz-26.5GHz)	8/26/2024	Annual	8/26/2025	MY54490576
Keysight Technologies	N9020A	MXA Signal Analyzer	4/11/2024	Annual	4/11/2025	MY54500644
Rohde & Schwarz	CMW500	Radio Communication Tester	N/A			100976
Rohde & Schwarz	CMW500	Radio Communication Tester	N/A			112347
Rohde & Schwarz	CMW500	Radio Communication Tester	N/A			102060
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	10/16/2024	Annual	10/16/2025	100342
Rohde & Schwarz	FSW67	Signal / Spectrum Analyzer	2/15/2024	Annual	2/15/2025	103200
Sunol	DRH-118	Horn Antenna (1-18GHz)	2/21/2024	Biennial	2/21/2026	A050307
Sunol	DRH-118	Horn Antenna (1-18 GHz)	2/13/2024	Biennial	2/13/2026	A042511
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	9/11/2024	Biennial	9/11/2026	A051107

Table 5-1. Test Equipment Calibration Table

Notes:

1. For equipment listed above that has a calibration date or calibration due date that falls within the test date range, care was taken to ensure that this equipment was used after the calibration date and before the calibration due date.

2. Equipment with a calibration date of “N/A” shown in this list was not used to make direct calibrated measurements.

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6.0 SAMPLE EMISSION DESIGNATORS

QPSK Modulation

Emission Designator = 8M62G7D
LTE BW = 8.62 MHz
G = Phase Modulation
7 = Quantized/Digital Info
D = Data transmission, telemetry, telecommand

QAM Modulation

Emission Designator = 8M45W7D
LTE BW = 8.45 MHz
W = Amplitude/Angle Modulated
7 = Quantized/Digital Info
D = Data transmission, telemetry, telecommand

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7.0 TEST RESULTS

7.1 Summary

Company Name: Microsoft Corporation

FCC ID: C3K2114

FCC Classification: PCS Licensed Transmitter (PCB)

Mode(s): NR

Test Condition	Test Description	FCC Part Section(s)	Test Limit	Test Result	Reference
CONDUCTED	Transmitter Conducted Output Power/Equivalent Isotropic Radiated Power (NR Band n77)	2.1046(a), 2.1046(c), 27.50(j)(3), 27.50(k)(3)	≤ 1 Watt EIRP	PASS	Section 7.2
	Occupied Bandwidth	2.1049(h)	N/A	PASS	Section 7.3
	Conducted Band Edge / Spurious Emissions (NR Band n77)	2.1051, 27.53(l), 27.53(n)	≤ -13 dBm / MHz	PASS	Sections 7.4, 7.5
	Peak-to-Average Ratio (NR Band n77)	27.50(j)(4), 27.50(k)(4)	≤ 13 dB	PASS	Section 7.6
	Frequency Stability	2.1055, 27.54	Fundamental emissions stay within authorized frequency block.	PASS	Section 7.8
RADIATED	Radiated Spurious Emissions (NR Band n77)	2.1053, 27.53(l), 27.53(n)	≤ -13 dBm / MHz	PASS	Section 7.7

Table 7-1. Summary of Test Results

Notes:

1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
2) The analyzer plots were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
4) All conducted emissions measurements are performed with automated test software to capture the corresponding plots necessary to show compliance. The measurement software utilized is EMC Software Tool v2.3.0.

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7.2 Conducted Output Power Data and EIRP

Test Overview

All emissions are measured with a callbox connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst-case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

Test Procedure Used

ANSI C63.26-2015 – Section 5.2

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

Figure 7-1. Test Instrument & Measurement Setup

Test Notes

1. Conducted power measurements were evaluated using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.

2. Conducted power was found to reduce for the higher order QAM modulations when compared to 16QAM. Due to this trend, only the worst-case QAM (16QAM) powers are included in this section.

3. EIRP is calculated using conducted power and antenna gain.

4. This unit was tested using a power supply.

5. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Ant Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	633334	3500.01	1 / 136	26.24	3.00	29.24	0.839	30.00	-0.76
	QPSK	633334	3500.01	1 / 136	26.15	3.00	29.15	0.823	30.00	-0.85
	16-QAM	633334	3500.01	1 / 136	24.52	3.00	27.52	0.564	30.00	-2.48
90 MHz	π/2 BPSK	633000	3495.00	1 / 1	25.81	3.00	28.81	0.760	30.00	-1.19
		633334	3500.01	1 / 122	25.95	3.00	28.95	0.786	30.00	-1.05
		633666	3504.99	1 / 1	25.78	3.00	28.78	0.755	30.00	-1.22
	QPSK	633000	3495.00	1 / 1	25.83	3.00	28.83	0.764	30.00	-1.17
		633334	3500.01	1 / 122	26.01	3.00	29.01	0.796	30.00	-0.99
		633666	3504.99	1 / 1	25.82	3.00	28.82	0.762	30.00	-1.18
	16-QAM	633666	3504.99	1 / 1	24.90	3.00	27.90	0.617	30.00	-2.10
80 MHz	π/2 BPSK	632668	3490.02	1 / 1	25.72	3.00	28.72	0.745	30.00	-1.28
		633334	3500.01	1 / 1	25.71	3.00	28.71	0.743	30.00	-1.29
		634000	3510.00	1 / 1	25.76	3.00	28.76	0.752	30.00	-1.24
	QPSK	632668	3490.02	1 / 1	25.74	3.00	28.74	0.748	30.00	-1.26
		633334	3500.01	1 / 1	25.83	3.00	28.83	0.764	30.00	-1.17
		634000	3510.00	1 / 1	25.86	3.00	28.86	0.769	30.00	-1.14
	16-QAM	632668	3490.02	1 / 1	25.00	3.00	28.00	0.631	30.00	-2.00
70 MHz	π/2 BPSK	632334	3485.01	1 / 1	25.81	3.00	28.81	0.760	30.00	-1.19
		633334	3500.01	1 / 1	25.70	3.00	28.70	0.741	30.00	-1.30
		634332	3514.98	1 / 1	25.75	3.00	28.75	0.750	30.00	-1.25
	QPSK	632334	3485.01	1 / 1	25.83	3.00	28.83	0.764	30.00	-1.17
		633334	3500.01	1 / 1	25.84	3.00	28.84	0.766	30.00	-1.16
		634332	3514.98	1 / 1	25.80	3.00	28.80	0.759	30.00	-1.20
	16-QAM	634332	3514.98	1 / 1	25.10	3.00	28.10	0.646	30.00	-1.90
60 MHz	π/2 BPSK	632000	3480.00	1 / 81	25.98	3.00	28.98	0.791	30.00	-1.02
		633334	3500.01	1 / 1	26.03	3.00	29.03	0.800	30.00	-0.97
		634666	3519.99	1 / 1	25.91	3.00	28.91	0.778	30.00	-1.09
	QPSK	632000	3480.00	1 / 81	25.87	3.00	28.87	0.771	30.00	-1.13
		633334	3500.01	1 / 1	26.03	3.00	29.03	0.800	30.00	-0.97
		634666	3519.99	1 / 1	25.96	3.00	28.96	0.787	30.00	-1.04
	16-QAM	634666	3519.99	1 / 1	25.15	3.00	28.15	0.653	30.00	-1.85
50 MHz	π/2 BPSK	631668	3475.02	1 / 1	26.00	3.00	29.00	0.794	30.00	-1.00
		633334	3500.01	1 / 1	25.99	3.00	28.99	0.793	30.00	-1.01
		635000	3525.00	1 / 1	25.96	3.00	28.96	0.787	30.00	-1.04
	QPSK	631668	3475.02	1 / 1	26.06	3.00	29.06	0.805	30.00	-0.94
		633334	3500.01	1 / 1	25.84	3.00	28.84	0.766	30.00	-1.16
		635000	3525.00	1 / 1	25.89	3.00	28.89	0.774	30.00	-1.11
	16-QAM	633334	3500.01	1 / 1	25.20	3.00	28.20	0.661	30.00	-1.80
40 MHz	π/2 BPSK	631334	3470.01	1 / 104	26.23	3.00	29.23	0.838	30.00	-0.77
		633334	3500.01	1 / 1	26.22	3.00	29.22	0.836	30.00	-0.78
		635332	3529.98	1 / 104	26.19	3.00	29.19	0.830	30.00	-0.81
	QPSK	631334	3470.01	1 / 104	26.26	3.00	29.26	0.843	30.00	-0.74
		633334	3500.01	1 / 1	26.20	3.00	29.20	0.832	30.00	-0.80
		635332	3529.98	1 / 104	26.13	3.00	29.13	0.818	30.00	-0.87
	16-QAM	633334	3500.01	1 / 1	25.45	3.00	28.45	0.700	30.00	-1.55
30 MHz	π/2 BPSK	631000	3465.00	1 / 76	26.27	3.00	29.27	0.845	30.00	-0.73
		633334	3500.01	1 / 1	26.12	3.00	29.12	0.817	30.00	-0.88
		635666	3534.99	1 / 76	26.07	3.00	29.07	0.807	30.00	-0.93
	QPSK	631000	3465.00	1 / 1	26.23	3.00	29.23	0.838	30.00	-0.77
		633334	3500.01	1 / 39	26.03	3.00	29.03	0.800	30.00	-0.97
		635666	3534.99	1 / 1	25.99	3.00	28.99	0.793	30.00	-1.01
	16-QAM	631000	3465.00	1 / 1	25.38	3.00	28.38	0.689	30.00	-1.62
20 MHz	π/2 BPSK	630668	3460.02	1 / 25	26.07	3.00	29.07	0.807	30.00	-0.93
		633334	3500.01	1 / 1	26.29	3.00	29.29	0.849	30.00	-0.71
		636000	3540.00	1 / 49	26.21	3.00	29.21	0.834	30.00	-0.79
	QPSK	630668	3460.02	1 / 1	26.14	3.00	29.14	0.820	30.00	-0.86
		633334	3500.01	1 / 25	26.24	3.00	29.24	0.839	30.00	-0.76
		636000	3540.00	1 / 49	26.13	3.00	29.13	0.818	30.00	-0.87
	16-QAM	633334	3500.01	1 / 1	25.52	3.00	28.52	0.711	30.00	-1.48
15 MHz	π/2 BPSK	630500	3457.50	1 / 36	26.32	3.00	29.32	0.855	30.00	-0.68
		633334	3500.01	1 / 1	26.21	3.00	29.21	0.834	30.00	-0.79
		636166	3542.49	1 / 19	26.13	3.00	29.13	0.818	30.00	-0.87
	QPSK	630500	3457.50	1 / 36	26.24	3.00	29.24	0.839	30.00	-0.76
		633334	3500.01	1 / 1	26.15	3.00	29.15	0.822	30.00	-0.85
		636166	3542.49	1 / 36	26.14	3.00	29.14	0.820	30.00	-0.86
	16-QAM	630500	3457.50	1 / 36	25.44	3.00	28.44	0.698	30.00	-1.56
10 MHz	π/2 BPSK	630334	3455.01	1 / 1	25.97	3.00	28.97	0.789	30.00	-1.03
		633334	3500.01	1 / 22	26.05	3.00	29.05	0.804	30.00	-0.95
		636332	3544.98	1 / 12	25.91	3.00	28.91	0.778	30.00	-1.09
	QPSK	630334	3455.01	1 / 22	26.11	3.00	29.11	0.815	30.00	-0.89
		633334	3500.01	1 / 22	25.97	3.00	28.97	0.789	30.00	-1.03
		636332	3544.98	1 / 22	25.89	3.00	28.89	0.774	30.00	-1.11
	16-QAM	636332	3544.98	1 / 12	25.11	3.00	28.11	0.647	30.00	-1.89

Table 7-2. Conducted Output Power/Calculated EIRP – NR Band n77 DoD – Ant 6

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Ant Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	650000	3750.00	1 / 136	25.40	3.00	28.40	0.691	30.00	-1.60
		656000	3840.00	1 / 271	25.37	3.00	28.37	0.687	30.00	-1.63
		662000	3930.00	1 / 136	25.62	3.00	28.62	0.727	30.00	-1.38
	QPSK	650000	3750.00	1 / 136	25.54	3.00	28.54	0.715	30.00	-1.46
		656000	3840.00	1 / 271	25.21	3.00	28.21	0.663	30.00	-1.79
		662000	3930.00	1 / 136	25.68	3.00	28.68	0.739	30.00	-1.32
	16-QAM	662000	3930.00	1 / 136	24.85	3.00	27.85	0.609	30.00	-2.15
90 MHz	π/2 BPSK	649668	3745.02	1 / 1	25.15	3.00	28.15	0.653	30.00	-1.85
		656000	3840.00	1 / 122	25.01	3.00	28.01	0.632	30.00	-1.99
		662332	3934.98	1 / 122	25.08	3.00	28.08	0.643	30.00	-1.92
	QPSK	649668	3745.02	1 / 1	25.26	3.00	28.26	0.670	30.00	-1.74
		656000	3840.00	1 / 122	25.03	3.00	28.03	0.635	30.00	-1.97
		662332	3934.98	1 / 243	25.08	3.00	28.08	0.643	30.00	-1.92
	16-QAM	649668	3745.02	1 / 1	24.18	3.00	27.18	0.522	30.00	-2.82
80 MHz	π/2 BPSK	649334	3740.01	1 / 1	25.16	3.00	28.16	0.655	30.00	-1.84
		656000	3840.00	1 / 108	25.01	3.00	28.01	0.632	30.00	-1.99
		662666	3939.99	1 / 108	25.07	3.00	28.07	0.641	30.00	-1.93
	QPSK	649334	3740.01	1 / 1	25.24	3.00	28.24	0.667	30.00	-1.76
		656000	3840.00	1 / 108	25.04	3.00	28.04	0.637	30.00	-1.96
		662666	3939.99	1 / 108	25.06	3.00	28.06	0.640	30.00	-1.94
	16-QAM	656000	3840.00	1 / 1	24.51	3.00	27.51	0.564	30.00	-2.49
70 MHz	π/2 BPSK	649000	3735.00	1 / 1	25.18	3.00	28.18	0.658	30.00	-1.82
		656000	3840.00	1 / 1	25.01	3.00	28.01	0.632	30.00	-1.99
		663000	3945.00	1 / 94	25.04	3.00	28.04	0.637	30.00	-1.96
	QPSK	649000	3735.00	1 / 1	25.11	3.00	28.11	0.647	30.00	-1.89
		656000	3840.00	1 / 94	25.18	3.00	28.18	0.658	30.00	-1.82
		663000	3945.00	1 / 94	25.14	3.00	28.14	0.652	30.00	-1.86
	16-QAM	656000	3840.00	1 / 94	24.31	3.00	27.31	0.538	30.00	-2.69
60 MHz	π/2 BPSK	648668	3730.02	1 / 1	25.44	3.00	28.44	0.698	30.00	-1.56
		656000	3840.00	1 / 81	25.22	3.00	28.22	0.664	30.00	-1.78
		663332	3949.98	1 / 81	25.13	3.00	28.13	0.650	30.00	-1.87
	QPSK	648668	3730.02	1 / 1	25.40	3.00	28.40	0.692	30.00	-1.60
		656000	3840.00	1 / 81	25.16	3.00	28.16	0.655	30.00	-1.84
		663332	3949.98	1 / 1	25.06	3.00	28.06	0.640	30.00	-1.94
	16-QAM	648668	3730.02	1 / 1	24.47	3.00	27.47	0.558	30.00	-2.53
50 MHz	π/2 BPSK	648334	3725.01	1 / 66	25.41	3.00	28.41	0.693	30.00	-1.59
		656000	3840.00	1 / 66	25.17	3.00	28.17	0.656	30.00	-1.83
		663666	3954.99	1 / 1	25.44	3.00	28.44	0.698	30.00	-1.56
	QPSK	648334	3725.01	1 / 66	25.49	3.00	28.49	0.706	30.00	-1.51
		656000	3840.00	1 / 66	25.17	3.00	28.17	0.656	30.00	-1.83
		663666	3954.99	1 / 1	25.24	3.00	28.24	0.667	30.00	-1.76
	16-QAM	648334	3725.01	1 / 66	24.79	3.00	27.79	0.601	30.00	-2.21
40 MHz	π/2 BPSK	648000	3720.00	1 / 1	25.81	3.00	28.81	0.760	30.00	-1.19
		656000	3840.00	1 / 1	25.64	3.00	28.64	0.731	30.00	-1.36
		664000	3960.00	1 / 1	25.64	3.00	28.64	0.731	30.00	-1.36
	QPSK	648000	3720.00	1 / 1	25.78	3.00	28.78	0.755	30.00	-1.22
		656000	3840.00	1 / 1	25.51	3.00	28.51	0.710	30.00	-1.49
		664000	3960.00	1 / 1	25.56	3.00	28.56	0.718	30.00	-1.44
	16-QAM	648000	3720.00	1 / 1	24.70	3.00	27.70	0.589	30.00	-2.30
30 MHz	π/2 BPSK	647668	3715.02	1 / 1	25.59	3.00	28.59	0.723	30.00	-1.41
		656000	3840.00	1 / 39	25.39	3.00	28.39	0.690	30.00	-1.61
		664332	3964.98	1 / 1	25.47	3.00	28.47	0.703	30.00	-1.53
	QPSK	647668	3715.02	1 / 1	25.64	3.00	28.64	0.731	30.00	-1.36
		656000	3840.00	1 / 1	25.37	3.00	28.37	0.687	30.00	-1.63
		664332	3964.98	1 / 1	25.44	3.00	28.44	0.698	30.00	-1.56
	16-QAM	664332	3964.98	1 / 1	24.93	3.00	27.93	0.621	30.00	-2.07
20 MHz	π/2 BPSK	647334	3710.01	1 / 1	25.75	3.00	28.75	0.750	30.00	-1.25
		656000	3840.00	1 / 49	25.30	3.00	28.30	0.676	30.00	-1.70
		664666	3969.99	1 / 1	25.49	3.00	28.49	0.706	30.00	-1.51
	QPSK	647334	3710.01	1 / 1	25.75	3.00	28.75	0.750	30.00	-1.25
		656000	3840.00	1 / 49	25.52	3.00	28.52	0.711	30.00	-1.48
		664666	3969.99	1 / 1	25.58	3.00	28.58	0.721	30.00	-1.42
	16-QAM	647334	3710.01	1 / 25	25.10	3.00	28.10	0.646	30.00	-1.90
15 MHz	π/2 BPSK	647168	3707.52	1 / 19	25.66	3.00	28.66	0.735	30.00	-1.34
		656000	3840.00	1 / 19	25.36	3.00	28.36	0.685	30.00	-1.64
		664832	3972.48	1 / 1	25.56	3.00	28.56	0.718	30.00	-1.44
	QPSK	647168	3707.52	1 / 1	25.69	3.00	28.69	0.740	30.00	-1.31
		656000	3840.00	1 / 36	25.35	3.00	28.35	0.684	30.00	-1.65
		664832	3972.48	1 / 1	25.37	3.00	28.37	0.687	30.00	-1.63
	16-QAM	647168	3707.52	1 / 1	24.82	3.00	27.82	0.605	30.00	-2.18
10 MHz	π/2 BPSK	647000	3705.00	1 / 12	25.68	3.00	28.68	0.738	30.00	-1.32
		656000	3840.00	1 / 1	25.59	3.00	28.59	0.723	30.00	-1.41
		665000	3975.00	1 / 22	25.38	3.00	28.38	0.689	30.00	-1.62
	QPSK	647000	3705.00	1 / 12	25.48	3.00	28.48	0.705	30.00	-1.52
		656000	3840.00	1 / 1	25.34	3.00	28.34	0.682	30.00	-1.66
		665000	3975.00	1 / 12	25.23	3.00	28.23	0.665	30.00	-1.77
	16-QAM	665000	3975.00	1 / 1	24.73	3.00	27.73	0.593	30.00	-2.27

Table 7-3. Conducted Output Power/Calculated EIRP– NR Band n77 C Band – Ant 6

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Ant Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	633334	3500.01	1 / 136	26.06	3.00	29.06	0.806	30.00	-0.94
	QPSK	633334	3500.01	1 / 136	25.96	3.00	28.96	0.786	30.00	-1.04
	16-QAM	633334	3500.01	1 / 136	25.21	3.00	28.21	0.662	30.00	-1.79
90 MHz	π/2 BPSK	633000	3495.00	1 / 183	25.34	3.00	28.34	0.682	30.00	-1.66
		633334	3500.01	1 / 183	25.29	3.00	28.29	0.675	30.00	-1.71
		633666	3504.99	1 / 183	25.26	3.00	28.26	0.670	30.00	-1.74
	QPSK	633000	3495.00	1 / 183	25.26	3.00	28.26	0.670	30.00	-1.74
		633334	3500.01	1 / 183	25.45	3.00	28.45	0.700	30.00	-1.55
		633666	3504.99	1 / 183	25.32	3.00	28.32	0.679	30.00	-1.68
	16-QAM	633666	3504.99	1 / 183	24.31	3.00	27.31	0.538	30.00	-2.69
80 MHz	π/2 BPSK	632668	3490.02	1 / 162	25.17	3.00	28.17	0.656	30.00	-1.83
		633334	3500.01	1 / 162	25.27	3.00	28.27	0.671	30.00	-1.73
		634000	3510.00	1 / 162	25.35	3.00	28.35	0.684	30.00	-1.65
	QPSK	632668	3490.02	1 / 162	25.18	3.00	28.18	0.658	30.00	-1.82
		633334	3500.01	1 / 162	25.22	3.00	28.22	0.664	30.00	-1.78
		634000	3510.00	1 / 54	25.01	3.00	28.01	0.632	30.00	-1.99
	16-QAM	632668	3490.02	1 / 54	24.26	3.00	27.26	0.532	30.00	-2.74
70 MHz	π/2 BPSK	632334	3485.01	1 / 47	25.24	3.00	28.24	0.667	30.00	-1.76
		633334	3500.01	1 / 141	25.21	3.00	28.21	0.662	30.00	-1.79
		634332	3514.98	1 / 141	25.24	3.00	28.24	0.667	30.00	-1.76
	QPSK	632334	3485.01	1 / 47	25.15	3.00	28.15	0.653	30.00	-1.85
		633334	3500.01	1 / 141	25.32	3.00	28.32	0.679	30.00	-1.68
		634332	3514.98	1 / 141	25.30	3.00	28.30	0.676	30.00	-1.70
	16-QAM	634332	3514.98	1 / 141	24.28	3.00	27.28	0.535	30.00	-2.72
60 MHz	π/2 BPSK	632000	3480.00	1 / 40	25.37	3.00	28.37	0.687	30.00	-1.63
		633334	3500.01	1 / 121	25.42	3.00	28.42	0.695	30.00	-1.58
		634666	3519.99	1 / 81	25.46	3.00	28.46	0.701	30.00	-1.54
	QPSK	632000	3480.00	1 / 40	25.37	3.00	28.37	0.687	30.00	-1.63
		633334	3500.01	1 / 121	25.33	3.00	28.33	0.681	30.00	-1.67
		634666	3519.99	1 / 81	25.35	3.00	28.35	0.684	30.00	-1.65
	16-QAM	632000	3480.00	1 / 81	24.57	3.00	27.57	0.571	30.00	-2.43
50 MHz	π/2 BPSK	631668	3475.02	1 / 33	25.43	3.00	28.43	0.697	30.00	-1.57
		633334	3500.01	1 / 99	25.37	3.00	28.37	0.687	30.00	-1.63
		635000	3525.00	1 / 33	25.45	3.00	28.45	0.700	30.00	-1.55
	QPSK	631668	3475.02	1 / 33	25.41	3.00	28.41	0.693	30.00	-1.59
		633334	3500.01	1 / 99	25.34	3.00	28.34	0.682	30.00	-1.66
		635000	3525.00	1 / 33	25.32	3.00	28.32	0.679	30.00	-1.68
	16-QAM	631668	3475.02	1 / 33	24.55	3.00	27.55	0.569	30.00	-2.45
40 MHz	π/2 BPSK	631334	3470.01	1 / 26	25.73	3.00	28.73	0.746	30.00	-1.27
		633334	3500.01	1 / 26	25.58	3.00	28.58	0.721	30.00	-1.42
		635332	3529.98	1 / 79	25.67	3.00	28.67	0.736	30.00	-1.33
	QPSK	631334	3470.01	1 / 26	25.86	3.00	28.86	0.769	30.00	-1.14
		633334	3500.01	1 / 79	25.59	3.00	28.59	0.723	30.00	-1.41
		635332	3529.98	1 / 79	25.64	3.00	28.64	0.731	30.00	-1.36
	16-QAM	631334	3470.01	1 / 26	24.72	3.00	27.72	0.592	30.00	-2.28
30 MHz	π/2 BPSK	631000	3465.00	1 / 19	25.72	3.00	28.72	0.745	30.00	-1.28
		633334	3500.01	1 / 19	25.43	3.00	28.43	0.697	30.00	-1.57
		635666	3534.99	1 / 19	25.62	3.00	28.62	0.728	30.00	-1.38
	QPSK	631000	3465.00	1 / 19	25.67	3.00	28.67	0.736	30.00	-1.33
		633334	3500.01	1 / 58	25.58	3.00	28.58	0.721	30.00	-1.42
		635666	3534.99	1 / 58	25.69	3.00	28.69	0.740	30.00	-1.31
	16-QAM	633334	3500.01	1 / 58	24.76	3.00	27.76	0.597	30.00	-2.24
20 MHz	π/2 BPSK	630668	3460.02	1 / 13	25.54	3.00	28.54	0.714	30.00	-1.46
		633334	3500.01	1 / 37	25.41	3.00	28.41	0.693	30.00	-1.59
		636000	3540.00	1 / 37	25.59	3.00	28.59	0.723	30.00	-1.41
	QPSK	630668	3460.02	1 / 25	25.71	3.00	28.71	0.743	30.00	-1.29
		633334	3500.01	1 / 37	25.48	3.00	28.48	0.705	30.00	-1.52
		636000	3540.00	1 / 37	25.67	3.00	28.67	0.736	30.00	-1.33
	16-QAM	630668	3460.02	1 / 13	24.97	3.00	27.97	0.627	30.00	-2.03
15 MHz	π/2 BPSK	630500	3457.50	1 / 9	25.53	3.00	28.53	0.713	30.00	-1.47
		633334	3500.01	1 / 9	25.47	3.00	28.47	0.703	30.00	-1.53
		636166	3542.49	1 / 19	25.67	3.00	28.67	0.736	30.00	-1.33
	QPSK	630500	3457.50	1 / 9	25.51	3.00	28.51	0.710	30.00	-1.49
		633334	3500.01	1 / 28	25.48	3.00	28.48	0.705	30.00	-1.52
		636166	3542.49	1 / 9	25.60	3.00	28.60	0.724	30.00	-1.40
	16-QAM	630500	3457.50	1 / 9	24.93	3.00	27.93	0.621	30.00	-2.07
10 MHz	π/2 BPSK	630334	3455.01	1 / 6	25.48	3.00	28.48	0.705	30.00	-1.52
		633334	3500.01	1 / 17	25.35	3.00	28.35	0.684	30.00	-1.65
		636332	3544.98	1 / 12	25.52	3.00	28.52	0.711	30.00	-1.48
	QPSK	630334	3455.01	1 / 6	25.55	3.00	28.55	0.716	30.00	-1.45
		633334	3500.01	1 / 17	25.40	3.00	28.40	0.692	30.00	-1.60
		636332	3544.98	1 / 12	25.55	3.00	28.55	0.716	30.00	-1.45
	16-QAM	630334	3455.01	1 / 12	24.72	3.00	27.72	0.592	30.00	-2.28

Table 7-4. Conducted Output Power/Calculated EIRP – NR Band n77 DoD – Ant 1

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Ant Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	650000	3750.00	1 / 136	25.43	3.00	28.43	0.696	30.00	-1.57
		656000	3840.00	1 / 204	25.25	3.00	28.25	0.668	30.00	-1.75
		662000	3930.00	1 / 136	25.56	3.00	28.56	0.718	30.00	-1.44
	QPSK	650000	3750.00	1 / 136	25.47	3.00	28.47	0.704	30.00	-1.53
		656000	3840.00	1 / 204	25.28	3.00	28.28	0.673	30.00	-1.72
		662000	3930.00	1 / 136	25.62	3.00	28.62	0.728	30.00	-1.38
	16-QAM	662000	3930.00	1 / 136	24.70	3.00	27.70	0.589	30.00	-2.30
90 MHz	π/2 BPSK	649668	3745.02	1 / 61	24.75	3.00	27.75	0.596	30.00	-2.25
		656000	3840.00	1 / 61	25.05	3.00	28.05	0.638	30.00	-1.95
		662332	3934.98	1 / 122	24.94	3.00	27.94	0.622	30.00	-2.06
	QPSK	649668	3745.02	1 / 61	24.86	3.00	27.86	0.611	30.00	-2.14
		656000	3840.00	1 / 61	25.05	3.00	28.05	0.638	30.00	-1.95
		662332	3934.98	1 / 122	24.91	3.00	27.91	0.618	30.00	-2.09
	16-QAM	649668	3745.02	1 / 61	24.20	3.00	27.20	0.525	30.00	-2.80
80 MHz	π/2 BPSK	649334	3740.01	1 / 54	24.81	3.00	27.81	0.604	30.00	-2.19
		656000	3840.00	1 / 54	25.07	3.00	28.07	0.641	30.00	-1.93
		662666	3939.99	1 / 54	24.96	3.00	27.96	0.625	30.00	-2.04
	QPSK	649334	3740.01	1 / 54	24.76	3.00	27.76	0.597	30.00	-2.24
		656000	3840.00	1 / 54	25.13	3.00	28.13	0.650	30.00	-1.87
		662666	3939.99	1 / 54	25.07	3.00	28.07	0.641	30.00	-1.93
	16-QAM	656000	3840.00	1 / 54	24.24	3.00	27.24	0.530	30.00	-2.76
70 MHz	π/2 BPSK	649000	3735.00	1 / 47	24.81	3.00	27.81	0.604	30.00	-2.19
		656000	3840.00	1 / 47	25.11	3.00	28.11	0.647	30.00	-1.89
		663000	3945.00	1 / 47	24.98	3.00	27.98	0.628	30.00	-2.02
	QPSK	649000	3735.00	1 / 47	24.88	3.00	27.88	0.614	30.00	-2.12
		656000	3840.00	1 / 47	25.03	3.00	28.03	0.635	30.00	-1.97
		663000	3945.00	1 / 47	24.98	3.00	27.98	0.628	30.00	-2.02
	16-QAM	649000	3735.00	1 / 47	24.35	3.00	27.35	0.543	30.00	-2.65
60 MHz	π/2 BPSK	648668	3730.02	1 / 40	25.06	3.00	28.06	0.640	30.00	-1.94
		656000	3840.00	1 / 40	25.14	3.00	28.14	0.652	30.00	-1.86
		663332	3949.98	1 / 40	25.15	3.00	28.15	0.653	30.00	-1.85
	QPSK	648668	3730.02	1 / 40	25.05	3.00	28.05	0.638	30.00	-1.95
		656000	3840.00	1 / 81	25.20	3.00	28.20	0.661	30.00	-1.80
		663332	3949.98	1 / 40	25.20	3.00	28.20	0.661	30.00	-1.80
	16-QAM	656000	3840.00	1 / 40	24.59	3.00	27.59	0.574	30.00	-2.41
50 MHz	π/2 BPSK	648334	3725.01	1 / 33	25.13	3.00	28.13	0.650	30.00	-1.87
		656000	3840.00	1 / 99	25.21	3.00	28.21	0.662	30.00	-1.79
		663666	3954.99	1 / 99	25.24	3.00	28.24	0.667	30.00	-1.76
	QPSK	648334	3725.01	1 / 33	25.01	3.00	28.01	0.632	30.00	-1.99
		656000	3840.00	1 / 33	25.14	3.00	28.14	0.652	30.00	-1.86
		663666	3954.99	1 / 33	25.41	3.00	28.41	0.693	30.00	-1.59
	16-QAM	663666	3954.99	1 / 33	24.67	3.00	27.67	0.585	30.00	-2.33
40 MHz	π/2 BPSK	648000	3720.00	1 / 26	25.46	3.00	28.46	0.701	30.00	-1.54
		656000	3840.00	1 / 26	25.34	3.00	28.34	0.682	30.00	-1.66
		664000	3960.00	1 / 26	25.50	3.00	28.50	0.708	30.00	-1.50
	QPSK	648000	3720.00	1 / 26	25.30	3.00	28.30	0.676	30.00	-1.70
		656000	3840.00	1 / 26	25.67	3.00	28.67	0.736	30.00	-1.33
		664000	3960.00	1 / 26	25.56	3.00	28.56	0.718	30.00	-1.44
	16-QAM	664000	3960.00	1 / 53	24.68	3.00	27.68	0.586	30.00	-2.32
30 MHz	π/2 BPSK	647668	3715.02	1 / 39	25.14	3.00	28.14	0.652	30.00	-1.86
		656000	3840.00	1 / 19	25.53	3.00	28.53	0.713	30.00	-1.47
		664332	3964.98	1 / 19	25.51	3.00	28.51	0.710	30.00	-1.49
	QPSK	647668	3715.02	1 / 19	25.19	3.00	28.19	0.659	30.00	-1.81
		656000	3840.00	1 / 19	25.40	3.00	28.40	0.692	30.00	-1.60
		664332	3964.98	1 / 58	25.62	3.00	28.62	0.728	30.00	-1.38
	16-QAM	664332	3964.98	1 / 19	24.79	3.00	27.79	0.601	30.00	-2.21
20 MHz	π/2 BPSK	647334	3710.01	1 / 13	25.14	3.00	28.14	0.652	30.00	-1.86
		656000	3840.00	1 / 25	25.23	3.00	28.23	0.665	30.00	-1.77
		664666	3969.99	1 / 25	25.47	3.00	28.47	0.703	30.00	-1.53
	QPSK	647334	3710.01	1 / 37	25.12	3.00	28.12	0.649	30.00	-1.88
		656000	3840.00	1 / 37	25.31	3.00	28.31	0.678	30.00	-1.69
		664666	3969.99	1 / 13	25.55	3.00	28.55	0.716	30.00	-1.45
	16-QAM	664666	3969.99	1 / 37	24.77	3.00	27.77	0.598	30.00	-2.23
15 MHz	π/2 BPSK	647168	3707.52	1 / 9	25.35	3.00	28.35	0.684	30.00	-1.65
		656000	3840.00	1 / 9	25.36	3.00	28.36	0.685	30.00	-1.64
		664832	3972.48	1 / 28	25.52	3.00	28.52	0.711	30.00	-1.48
	QPSK	647168	3707.52	1 / 28	25.10	3.00	28.10	0.646	30.00	-1.90
		656000	3840.00	1 / 19	25.31	3.00	28.31	0.678	30.00	-1.69
		664832	3972.48	1 / 28	25.43	3.00	28.43	0.697	30.00	-1.57
	16-QAM	664832	3972.48	1 / 28	24.47	3.00	27.47	0.558	30.00	-2.53
10 MHz	π/2 BPSK	647000	3705.00	1 / 6	25.23	3.00	28.23	0.665	30.00	-1.77
		656000	3840.00	1 / 6	25.31	3.00	28.31	0.678	30.00	-1.69
		664332	3975.00	1 / 6	25.42	3.00	28.42	0.695	30.00	-1.58
	QPSK	647000	3705.00	1 / 17	25.21	3.00	28.21	0.662	30.00	-1.79
		656000	3840.00	1 / 12	25.36	3.00	28.36	0.685	30.00	-1.64
		664332	3975.00	1 / 12	25.41	3.00	28.41	0.693	30.00	-1.59
	16-QAM	664332	3975.00	1 / 17	24.63	3.00	27.63	0.579	30.00	-2.37

Table 7-5. Conducted Output Power/Calculated EIRP– NR Band n77 C Band – Ant 1

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Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Ant Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	633334	3500.01	1 / 136	25.79	3.00	28.79	0.757	30.00	-1.21
	QPSK	633334	3500.01	1 / 136	25.81	3.00	28.81	0.760	30.00	-1.19
	16-QAM	633334	3500.01	1 / 136	24.85	3.00	27.85	0.609	30.00	-2.15

Table 7-6. Conducted Output Power/Calculated EIRP – NR Band n77 DoD – SRS 3

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Ant Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	650000	3750.00	1 / 136	25.01	3.00	28.01	0.632	30.00	-1.99
		656000	3840.00	1 / 136	25.11	3.00	28.11	0.647	30.00	-1.89
		662000	3930.00	1 / 136	25.29	3.00	28.29	0.674	30.00	-1.71
	QPSK	650000	3750.00	1 / 136	24.98	3.00	27.98	0.628	30.00	-2.02
		656000	3840.00	1 / 136	25.31	3.00	28.31	0.678	30.00	-1.69
		662000	3930.00	1 / 136	25.30	3.00	28.30	0.677	30.00	-1.70
	16-QAM	662000	3930.00	1 / 136	24.40	3.00	27.40	0.549	30.00	-2.60

Table 7-7. Conducted Output Power/Calculated EIRP– NR Band n77 C Band – SRS 3

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Ant Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	633334	3500.01	1 / 136	25.57	3.00	28.57	0.719	30.00	-1.43
	QPSK	633334	3500.01	1 / 136	25.65	3.00	28.65	0.732	30.00	-1.35
	16-QAM	633334	3500.01	1 / 136	24.52	3.00	27.52	0.564	30.00	-2.48

Table 7-8. Conducted Output Power/Calculated EIRP – NR Band n77 DoD – SRS 4

Bandwidth	Modulation	Channel	Frequency [MHz]	RB Size/Offset	Conducted Power [dBm]	Ant Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	650000	3750.00	1 / 136	25.32	3.00	28.32	0.679	30.00	-1.68
		656000	3840.00	1 / 136	25.28	3.00	28.28	0.673	30.00	-1.72
		662000	3930.00	1 / 271	25.21	3.00	28.21	0.662	30.00	-1.79
	QPSK	650000	3750.00	1 / 136	25.30	3.00	28.30	0.676	30.00	-1.70
		656000	3840.00	1 / 136	25.29	3.00	28.29	0.675	30.00	-1.71
		662000	3930.00	1 / 271	25.19	3.00	28.19	0.659	30.00	-1.81
	16-QAM	650000	3750.00	1 / 136	24.62	3.00	27.62	0.577	30.00	-2.38

Table 7-9. Conducted Output Power/Calculated EIRP– NR Band n77 C Band – SRS 4

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Bandwidth	Modulation	Channel	Frequency [MHz]	Ant6 Conducted Power [dBm]	Ant1 Conducted Power [dBm]	Dir. Ant Gain [dBi]	Ant6 + Ant1 Conducted Power	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	633334	3500.01	25.25	25.59	0.00	28.43	0.697	30.00	-1.57
	QPSK	633334	3500.01	25.20	25.55	0.00	28.39	0.690	30.00	-1.61
	16-QAM	633334	3500.01	24.22	24.95	0.00	27.61	0.577	30.00	-2.39
90 MHz	π/2 BPSK	633000	3495.00	25.11	25.66	0.00	28.40	0.692	30.00	-1.60
		633334	3500.01	25.25	25.72	0.00	28.50	0.708	30.00	-1.50
		633666	3504.99	25.15	25.62	0.00	28.40	0.692	30.00	-1.60
	QPSK	633000	3495.00	25.17	25.68	0.00	28.44	0.698	30.00	-1.56
		633334	3500.01	25.18	25.67	0.00	28.44	0.698	30.00	-1.56
		633666	3504.99	25.21	25.59	0.00	28.41	0.693	30.00	-1.59
	16-QAM	633000	3495.00	24.52	24.82	0.00	27.68	0.586	30.00	-2.32
80 MHz	π/2 BPSK	632668	3490.02	25.17	25.54	0.00	28.37	0.687	30.00	-1.63
		633334	3500.01	25.07	25.60	0.00	28.35	0.684	30.00	-1.65
		634000	3510.00	25.12	25.48	0.00	28.31	0.678	30.00	-1.69
	QPSK	632668	3490.02	25.12	25.72	0.00	28.44	0.698	30.00	-1.56
		633334	3500.01	25.11	25.68	0.00	28.41	0.693	30.00	-1.59
		634000	3510.00	25.05	25.76	0.00	28.43	0.697	30.00	-1.57
	16-QAM	634000	3510.00	24.32	24.85	0.00	27.60	0.575	30.00	-2.40
70 MHz	π/2 BPSK	632334	3485.01	25.10	25.68	0.00	28.41	0.693	30.00	-1.59
		633334	3500.01	25.04	25.79	0.00	28.44	0.698	30.00	-1.56
		634332	3514.98	25.22	25.66	0.00	28.46	0.701	30.00	-1.54
	QPSK	632334	3485.01	25.11	25.69	0.00	28.42	0.695	30.00	-1.58
		633334	3500.01	25.16	25.77	0.00	28.49	0.706	30.00	-1.51
		634332	3514.98	25.04	25.75	0.00	28.42	0.695	30.00	-1.58
	16-QAM	633334	3500.01	24.27	24.88	0.00	27.60	0.575	30.00	-2.40
60 MHz	π/2 BPSK	632000	3480.00	25.26	26.00	0.00	28.66	0.735	30.00	-1.34
		633334	3500.01	25.06	25.78	0.00	28.45	0.700	30.00	-1.55
		634666	3519.99	25.27	25.99	0.00	28.66	0.735	30.00	-1.34
	QPSK	632000	3480.00	25.18	26.06	0.00	28.65	0.733	30.00	-1.35
		633334	3500.01	25.27	25.84	0.00	28.57	0.719	30.00	-1.43
		634666	3519.99	25.30	26.02	0.00	28.69	0.740	30.00	-1.31
	16-QAM	633334	3500.01	24.08	25.36	0.00	27.78	0.600	30.00	-2.22
50 MHz	π/2 BPSK	631668	3475.02	25.44	25.81	0.00	28.64	0.731	30.00	-1.36
		633334	3500.01	25.20	25.96	0.00	28.61	0.726	30.00	-1.39
		635000	3525.00	25.32	25.67	0.00	28.51	0.710	30.00	-1.49
	QPSK	631668	3475.02	25.28	25.94	0.00	28.63	0.729	30.00	-1.37
		633334	3500.01	25.21	25.85	0.00	28.55	0.716	30.00	-1.45
		635000	3525.00	25.26	25.86	0.00	28.58	0.721	30.00	-1.42
	16-QAM	631668	3475.02	24.49	25.16	0.00	27.85	0.610	30.00	-2.15
40 MHz	π/2 BPSK	631334	3470.01	25.53	26.11	0.00	28.84	0.766	30.00	-1.16
		633334	3500.01	25.39	26.21	0.00	28.83	0.764	30.00	-1.17
		635332	3529.98	25.52	26.09	0.00	28.82	0.762	30.00	-1.18
	QPSK	631334	3470.01	25.54	26.18	0.00	28.88	0.773	30.00	-1.12
		633334	3500.01	25.47	26.23	0.00	28.88	0.773	30.00	-1.12
		635332	3529.98	25.66	25.99	0.00	28.84	0.766	30.00	-1.16
	16-QAM	631334	3470.01	24.70	25.02	0.00	27.87	0.612	30.00	-2.13
30 MHz	π/2 BPSK	631000	3465.00	25.49	26.25	0.00	28.90	0.776	30.00	-1.10
		633334	3500.01	25.37	26.09	0.00	28.76	0.752	30.00	-1.24
		635666	3534.99	25.43	26.22	0.00	28.85	0.767	30.00	-1.15
	QPSK	631000	3465.00	25.49	26.10	0.00	28.82	0.762	30.00	-1.18
		633334	3500.01	25.43	26.10	0.00	28.79	0.757	30.00	-1.21
		635666	3534.99	25.55	26.02	0.00	28.80	0.759	30.00	-1.20
	16-QAM	633334	3500.01	24.71	25.51	0.00	28.14	0.652	30.00	-1.86
20 MHz	π/2 BPSK	630668	3460.02	25.42	26.26	0.00	28.87	0.771	30.00	-1.13
		633334	3500.01	25.33	26.28	0.00	28.84	0.766	30.00	-1.16
		636000	3540.00	25.43	25.92	0.00	28.69	0.740	30.00	-1.31
	QPSK	630668	3460.02	25.53	26.24	0.00	28.91	0.778	30.00	-1.09
		633334	3500.01	25.33	26.21	0.00	28.80	0.759	30.00	-1.20
		636000	3540.00	25.53	26.01	0.00	28.79	0.757	30.00	-1.21
	16-QAM	630668	3460.02	24.83	25.26	0.00	28.06	0.640	30.00	-1.94
15 MHz	π/2 BPSK	630500	3457.50	25.48	26.23	0.00	28.88	0.773	30.00	-1.12
		633334	3500.01	25.48	26.14	0.00	28.83	0.764	30.00	-1.17
		636166	3542.49	25.41	26.11	0.00	28.78	0.755	30.00	-1.22
	QPSK	630500	3457.50	25.60	26.09	0.00	28.86	0.769	30.00	-1.14
		633334	3500.01	25.31	26.26	0.00	28.82	0.762	30.00	-1.18
		636166	3542.49	25.55	26.07	0.00	28.83	0.764	30.00	-1.17
	16-QAM	636166	3542.49	24.61	25.14	0.00	27.89	0.615	30.00	-2.11
10 MHz	π/2 BPSK	630334	3455.01	25.43	25.78	0.00	28.62	0.728	30.00	-1.38
		633334	3500.01	25.15	25.91	0.00	28.56	0.718	30.00	-1.44
		636332	3544.98	25.45	25.79	0.00	28.63	0.729	30.00	-1.37
	QPSK	630334	3455.01	25.47	25.84	0.00	28.67	0.736	30.00	-1.33
		633334	3500.01	25.17	25.82	0.00	28.52	0.711	30.00	-1.48
		636332	3544.98	25.52	25.76	0.00	28.65	0.733	30.00	-1.35
	16-QAM	630334	3455.01	24.63	24.85	0.00	27.75	0.596	30.00	-2.25

Table 7-10. Conducted Output Power/Calculated EIRP– NR Band n77 DoD – UL-MIMO PC1.5

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Bandwidth	Modulation	Channel	Frequency [MHz]	Ant6 Conducted Power [dBm]	Ant1 Conducted Power [dBm]	Dir. Ant Gain [dBi]	Ant6 + Ant1 EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	π/2 BPSK	650000	3750.00	25.13	24.61	0.00	27.89	0.615	30.00	-2.11
		656000	3840.00	24.91	24.76	0.00	27.85	0.610	30.00	-2.15
		662000	3930.00	25.22	24.99	0.00	28.12	0.649	30.00	-1.88
	QPSK	650000	3750.00	25.13	24.53	0.00	27.85	0.610	30.00	-2.15
		656000	3840.00	25.20	24.76	0.00	28.00	0.631	30.00	-2.00
		662000	3930.00	25.16	24.58	0.00	27.89	0.615	30.00	-2.11
	16-QAM	650000	3750.00	24.51	23.66	0.00	27.12	0.515	30.00	-2.88
90 MHz	π/2 BPSK	649668	3745.02	25.02	24.60	0.00	27.83	0.607	30.00	-2.17
		656000	3840.00	24.99	24.75	0.00	27.88	0.614	30.00	-2.12
		662332	3934.98	24.94	24.67	0.00	27.82	0.605	30.00	-2.18
	QPSK	649668	3745.02	25.12	24.61	0.00	27.88	0.614	30.00	-2.12
		656000	3840.00	25.01	24.59	0.00	27.82	0.605	30.00	-2.18
		662332	3934.98	25.20	24.64	0.00	27.94	0.622	30.00	-2.06
	16-QAM	662332	3934.98	24.32	23.96	0.00	27.15	0.519	30.00	-2.85
80 MHz	π/2 BPSK	649334	3740.01	25.09	24.64	0.00	27.88	0.614	30.00	-2.12
		656000	3840.00	25.01	24.77	0.00	27.90	0.617	30.00	-2.10
		662666	3939.99	25.10	24.69	0.00	27.91	0.618	30.00	-2.09
	QPSK	649334	3740.01	25.12	24.71	0.00	27.93	0.621	30.00	-2.07
		656000	3840.00	25.07	24.66	0.00	27.88	0.614	30.00	-2.12
		662666	3939.99	25.05	24.71	0.00	27.89	0.615	30.00	-2.11
	16-QAM	649334	3740.01	24.49	24.35	0.00	27.43	0.553	30.00	-2.57
70 MHz	π/2 BPSK	649000	3735.00	24.96	24.61	0.00	27.80	0.603	30.00	-2.20
		656000	3840.00	25.26	24.62	0.00	27.96	0.625	30.00	-2.04
		663000	3945.00	24.99	24.63	0.00	27.82	0.605	30.00	-2.18
	QPSK	649000	3735.00	25.27	24.64	0.00	27.98	0.628	30.00	-2.02
		656000	3840.00	25.26	24.68	0.00	27.99	0.630	30.00	-2.01
		663000	3945.00	25.04	24.67	0.00	27.87	0.612	30.00	-2.13
	16-QAM	663000	3945.00	24.58	23.85	0.00	27.24	0.530	30.00	-2.76
60 MHz	π/2 BPSK	648668	3730.02	25.20	24.72	0.00	27.98	0.628	30.00	-2.02
		656000	3840.00	25.17	24.66	0.00	27.93	0.621	30.00	-2.07
		663332	3949.98	24.97	24.76	0.00	27.88	0.614	30.00	-2.12
	QPSK	648668	3730.02	25.44	24.73	0.00	28.11	0.647	30.00	-1.89
		656000	3840.00	25.17	24.82	0.00	28.01	0.632	30.00	-1.99
		663332	3949.98	25.25	24.74	0.00	28.01	0.632	30.00	-1.99
	16-QAM	648668	3730.02	24.90	24.15	0.00	27.55	0.569	30.00	-2.45
50 MHz	π/2 BPSK	648334	3725.01	25.43	24.77	0.00	28.12	0.649	30.00	-1.88
		656000	3840.00	25.19	24.81	0.00	28.01	0.632	30.00	-1.99
		663666	3954.99	25.39	24.94	0.00	28.18	0.658	30.00	-1.82
	QPSK	648334	3725.01	25.50	24.75	0.00	28.15	0.653	30.00	-1.85
		656000	3840.00	25.16	24.83	0.00	28.01	0.632	30.00	-1.99
		663666	3954.99	25.39	24.97	0.00	28.20	0.661	30.00	-1.80
	16-QAM	663666	3954.99	24.82	24.28	0.00	27.57	0.571	30.00	-2.43
40 MHz	π/2 BPSK	648000	3720.00	25.72	24.99	0.00	28.38	0.689	30.00	-1.62
		656000	3840.00	25.67	25.13	0.00	28.42	0.695	30.00	-1.58
		664000	3960.00	25.70	25.22	0.00	28.48	0.705	30.00	-1.52
	QPSK	648000	3720.00	25.72	25.01	0.00	28.39	0.690	30.00	-1.61
		656000	3840.00	25.57	25.09	0.00	28.35	0.684	30.00	-1.65
		664000	3960.00	25.71	25.21	0.00	28.48	0.705	30.00	-1.52
	16-QAM	664000	3960.00	24.88	24.33	0.00	27.62	0.578	30.00	-2.38
30 MHz	π/2 BPSK	647668	3715.02	25.40	24.83	0.00	28.13	0.650	30.00	-1.87
		656000	3840.00	25.31	25.00	0.00	28.17	0.656	30.00	-1.83
		664332	3964.98	25.54	25.14	0.00	28.35	0.684	30.00	-1.65
	QPSK	647668	3715.02	25.51	25.06	0.00	28.30	0.676	30.00	-1.70
		656000	3840.00	25.50	25.02	0.00	28.28	0.673	30.00	-1.72
		664332	3964.98	25.58	25.22	0.00	28.41	0.693	30.00	-1.59
	16-QAM	664332	3964.98	24.64	24.29	0.00	27.48	0.560	30.00	-2.52
20 MHz	π/2 BPSK	647334	3710.01	25.53	24.98	0.00	28.27	0.671	30.00	-1.73
		656000	3840.00	25.22	24.95	0.00	28.10	0.646	30.00	-1.90
		664666	3969.99	25.64	25.27	0.00	28.47	0.703	30.00	-1.53
	QPSK	647334	3710.01	25.71	24.89	0.00	28.33	0.681	30.00	-1.67
		656000	3840.00	25.35	24.97	0.00	28.17	0.656	30.00	-1.83
		664666	3969.99	25.66	25.25	0.00	28.47	0.703	30.00	-1.53
	16-QAM	664666	3969.99	25.06	24.39	0.00	27.75	0.596	30.00	-2.25
15 MHz	π/2 BPSK	647168	3707.52	25.47	24.91	0.00	28.21	0.662	30.00	-1.79
		656000	3840.00	25.50	24.97	0.00	28.25	0.668	30.00	-1.75
		664832	3972.48	25.48	25.21	0.00	28.36	0.685	30.00	-1.64
	QPSK	647168	3707.52	25.62	25.04	0.00	28.35	0.684	30.00	-1.65
		656000	3840.00	25.46	25.04	0.00	28.27	0.671	30.00	-1.73
		664832	3972.48	25.53	25.11	0.00	28.34	0.682	30.00	-1.66
	16-QAM	647168	3707.52	24.84	23.92	0.00	27.41	0.551	30.00	-2.59
10 MHz	π/2 BPSK	647000	3705.00	25.37	24.58	0.00	28.00	0.631	30.00	-2.00
		656000	3840.00	25.14	24.91	0.00	28.04	0.637	30.00	-1.96
		665000	3975.00	25.37	25.01	0.00	28.20	0.661	30.00	-1.80
	QPSK	647000	3705.00	25.39	24.84	0.00	28.13	0.650	30.00	-1.87
		656000	3840.00	25.27	24.81	0.00	28.06	0.640	30.00	-1.94
		665000	3975.00	25.33	25.07	0.00	28.21	0.662	30.00	-1.79
	16-QAM	647000	3705.00	24.88	24.04	0.00	27.49	0.561	30.00	-2.51

Table 7-11. Conducted Output Power/Calculated EIRP– NR Band n77 C-Band – UL-MIMO PC1.5

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7.3 Occupied Bandwidth

Test Overview

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. All modes of operation were investigated and the worst case configuration results are reported in this section.

Test Procedure Used

ANSI C63.26-2015 – Section 5.4.4

Test Settings

1. The signal analyzer's automatic bandwidth measurement capability was used to perform the 99% occupied bandwidth and the 26dB bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = 1 – 5% of the expected OBW
3. VBW ≥ 3 x RBW
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. The trace was allowed to stabilize
8. If necessary, steps 2 – 7 were repeated after changing the RBW such that it would be within 1 – 5% of the 99% occupied bandwidth observed in Step 7

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

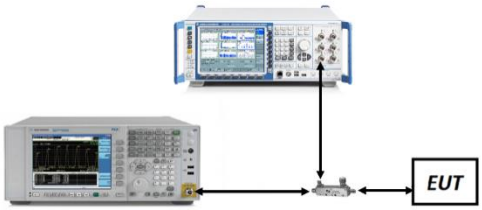

Figure 7-2. Test Instrument & Measurement Setup

Test Notes

None.

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Mode	Bandwidth	Modulation	OBW [MHz]
NR-n77PC2-R1	100MHz	π/2 BPSK	96.66
		QPSK	97.98
		16QAM	97.87
	90MHz	π/2 BPSK	87.31
		QPSK	88.02
		16QAM	87.91
	80MHz	π/2 BPSK	77.37
		QPSK	77.96
		16QAM	77.77
	70MHz	π/2 BPSK	64.60
		QPSK	67.90
		16QAM	67.87
	60MHz	π/2 BPSK	58.11
		QPSK	58.22
		16QAM	58.27
	50MHz	π/2 BPSK	45.92
		QPSK	47.72
		16QAM	47.72
	40MHz	π/2 BPSK	35.93
		QPSK	38.01
		16QAM	38.08
	30MHz	π/2 BPSK	27.08
		QPSK	28.10
		16QAM	28.06
	20MHz	π/2 BPSK	17.95
		QPSK	18.39
		16QAM	18.35
	15MHz	π/2 BPSK	12.99
		QPSK	13.72
		16QAM	13.75
	10MHz	π/2 BPSK	8.69
		QPSK	8.66
		16QAM	8.66

Table 7-12. Occupied Bandwidth Test Results – NR Band n77 DoD – Ant 6

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Mode	Bandwidth	Modulation	OBW [MHz]
NR-n77PC2	100MHz	π/2 BPSK	96.89
		QPSK	97.85
		16QAM	98.04
	90MHz	π/2 BPSK	87.20
		QPSK	88.07
		16QAM	88.08
	80MHz	π/2 BPSK	77.39
		QPSK	77.96
		16QAM	77.59
	70MHz	π/2 BPSK	64.42
		QPSK	67.79
		16QAM	67.69
	60MHz	π/2 BPSK	58.07
		QPSK	58.27
		16QAM	58.34
	50MHz	π/2 BPSK	45.94
		QPSK	47.61
		16QAM	47.80
	40MHz	π/2 BPSK	35.91
		QPSK	38.07
		16QAM	38.12
	30MHz	π/2 BPSK	27.06
		QPSK	28.00
		16QAM	28.07
	20MHz	π/2 BPSK	17.98
		QPSK	18.33
		16QAM	18.38
	15MHz	π/2 BPSK	12.96
		QPSK	13.69
		16QAM	13.77
	10MHz	π/2 BPSK	8.64
		QPSK	8.68
		16QAM	8.69

Table 7-13. Occupied Bandwidth Test Results – NR Band n77 C-Band – Ant 6

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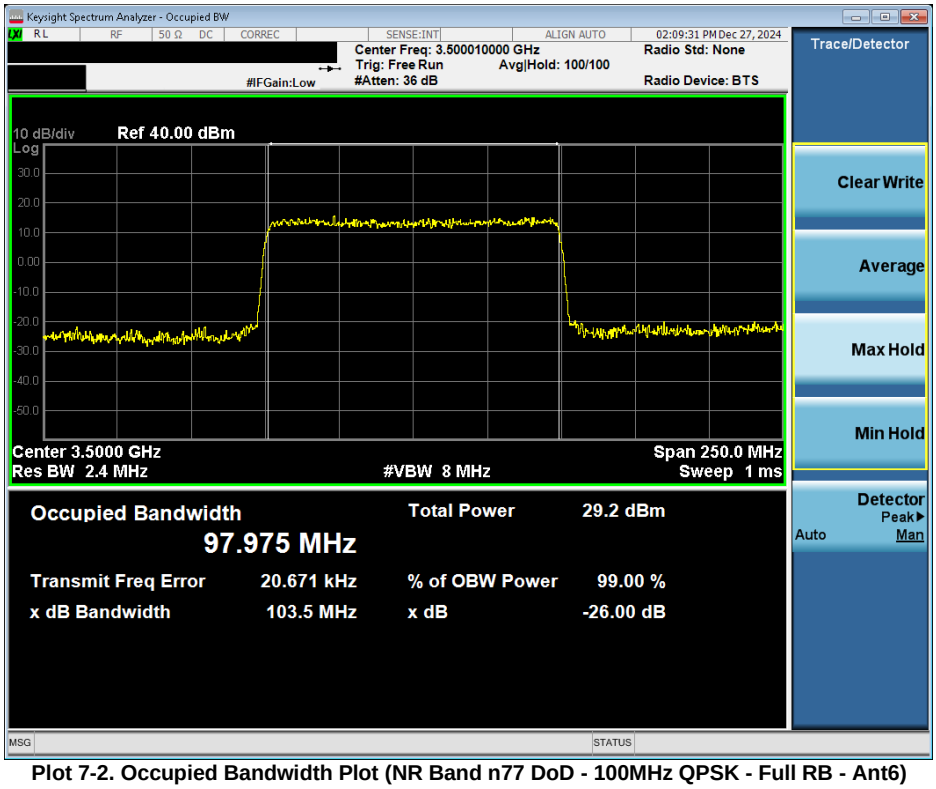
Band n77 DoD – Ant6

Plot 7-1. Occupied Bandwidth Plot (NR Band n77 DoD - 100MHz π/2 BPSK - Full RB - Ant6)



Plot 7-2. Occupied Bandwidth Plot (NR Band n77 DoD - 100MHz QPSK - Full RB - Ant6)

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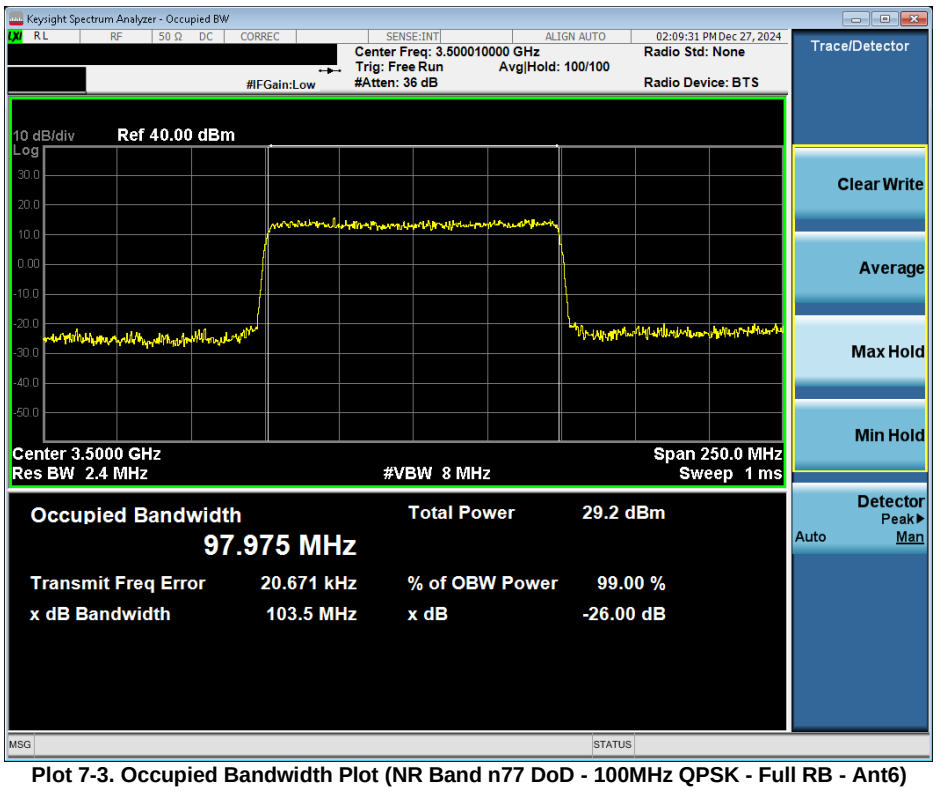
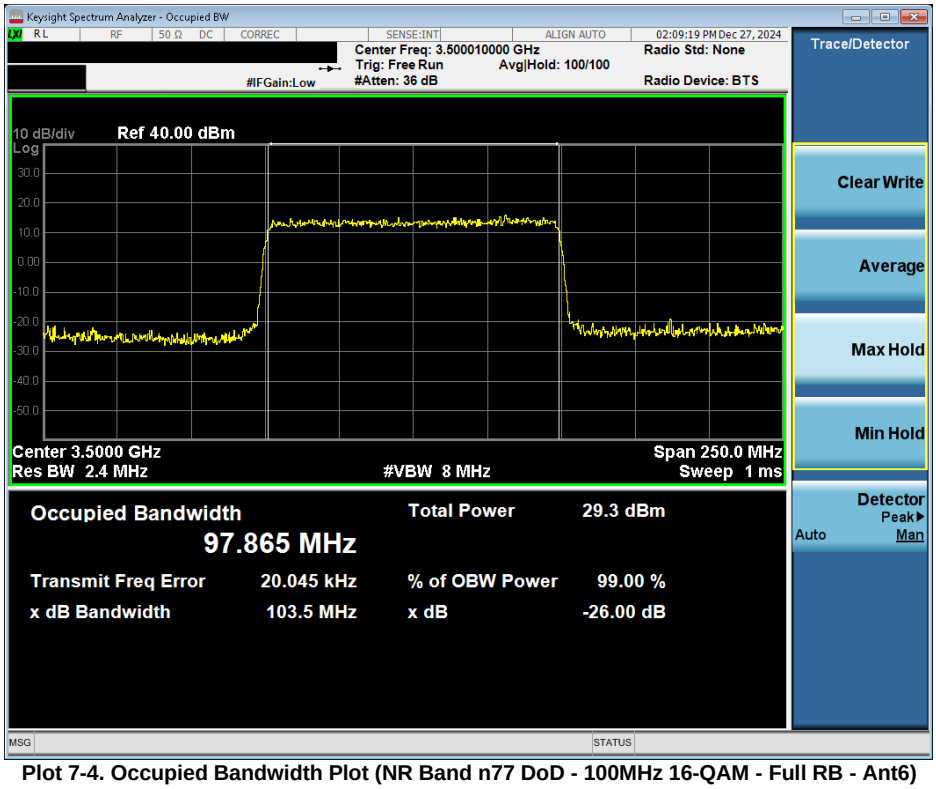


Plot 7-3. Occupied Bandwidth Plot (NR Band n77 DoD - 100MHz QPSK - Full RB - Ant6)



Plot 7-4. Occupied Bandwidth Plot (NR Band n77 DoD - 100MHz 16-QAM - Full RB - Ant6)

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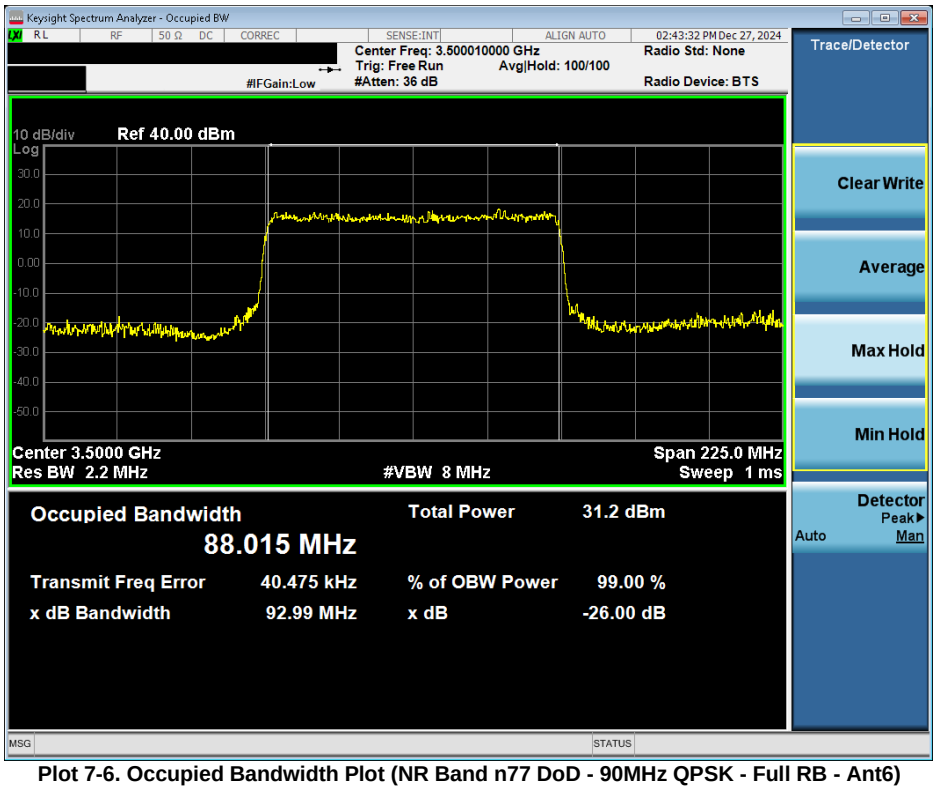
Plot 7-5. Occupied Bandwidth Plot (NR Band n77 DoD - 90MHz π/2 BPSK - Full RB - Ant6)



Plot 7-6. Occupied Bandwidth Plot (NR Band n77 DoD - 90MHz QPSK - Full RB - Ant6)

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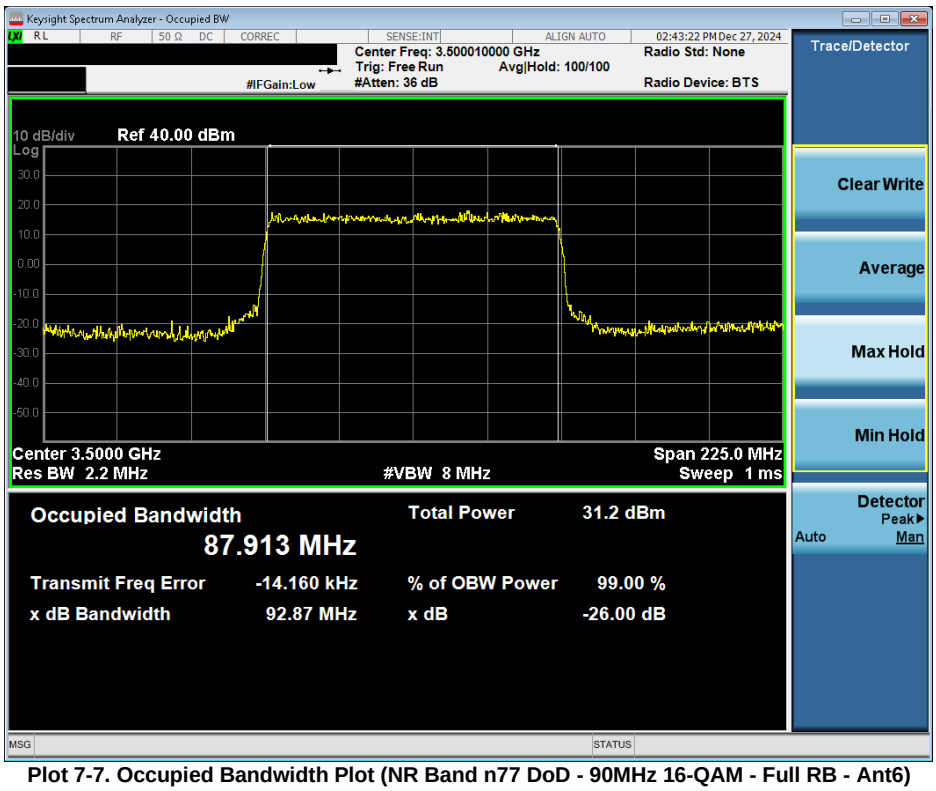
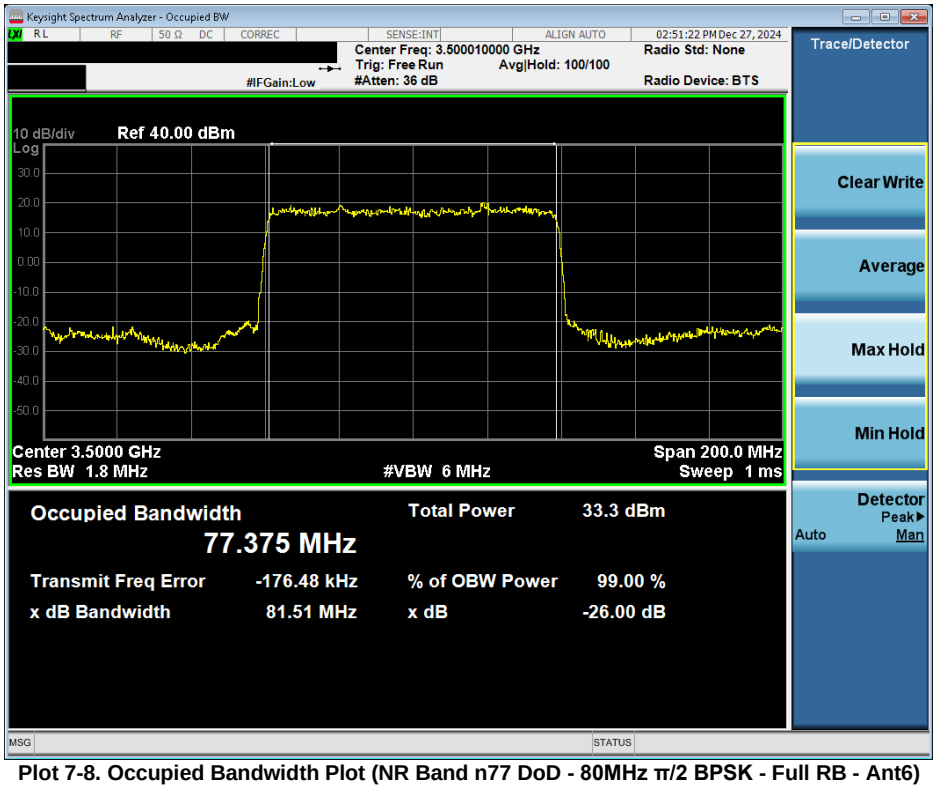


Plot 7-7. Occupied Bandwidth Plot (NR Band n77 DoD - 90MHz 16-QAM - Full RB - Ant6)



Plot 7-8. Occupied Bandwidth Plot (NR Band n77 DoD - 80MHz π/2 BPSK - Full RB - Ant6)

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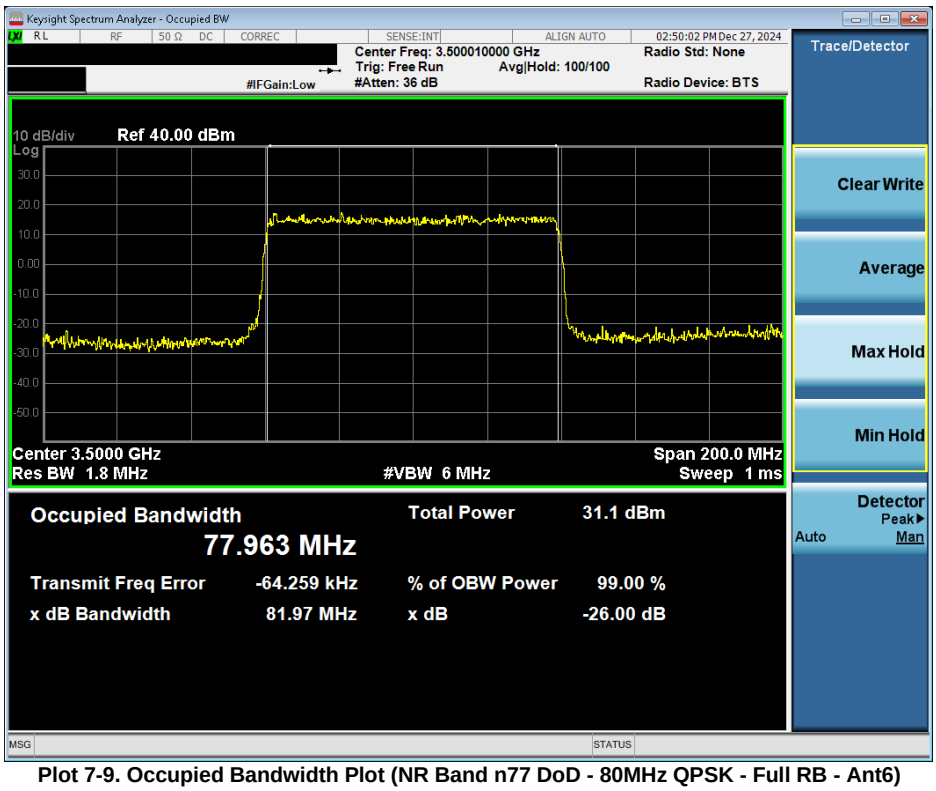
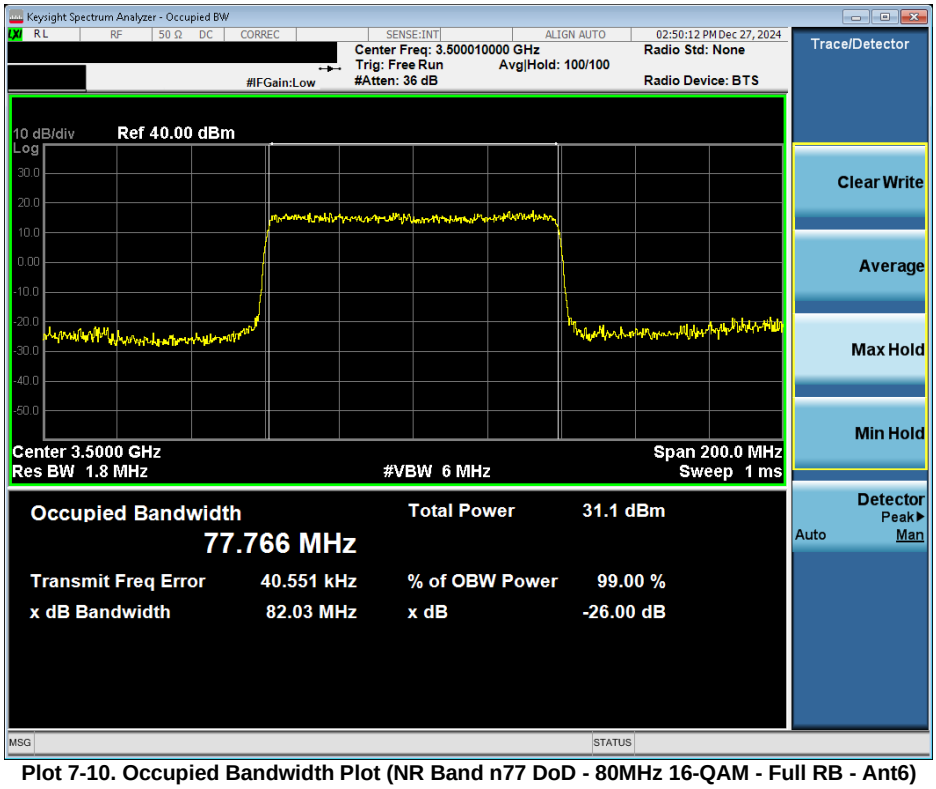


Plot 7-9. Occupied Bandwidth Plot (NR Band n77 DoD - 80MHz QPSK - Full RB - Ant6)



Plot 7-10. Occupied Bandwidth Plot (NR Band n77 DoD - 80MHz 16-QAM - Full RB - Ant6)

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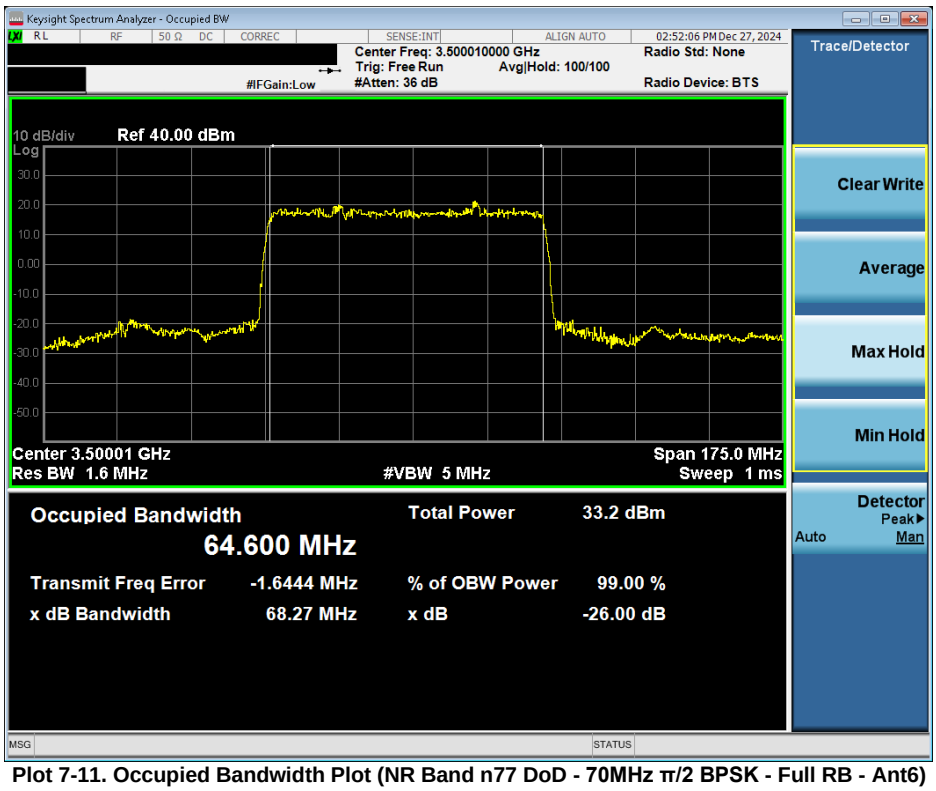
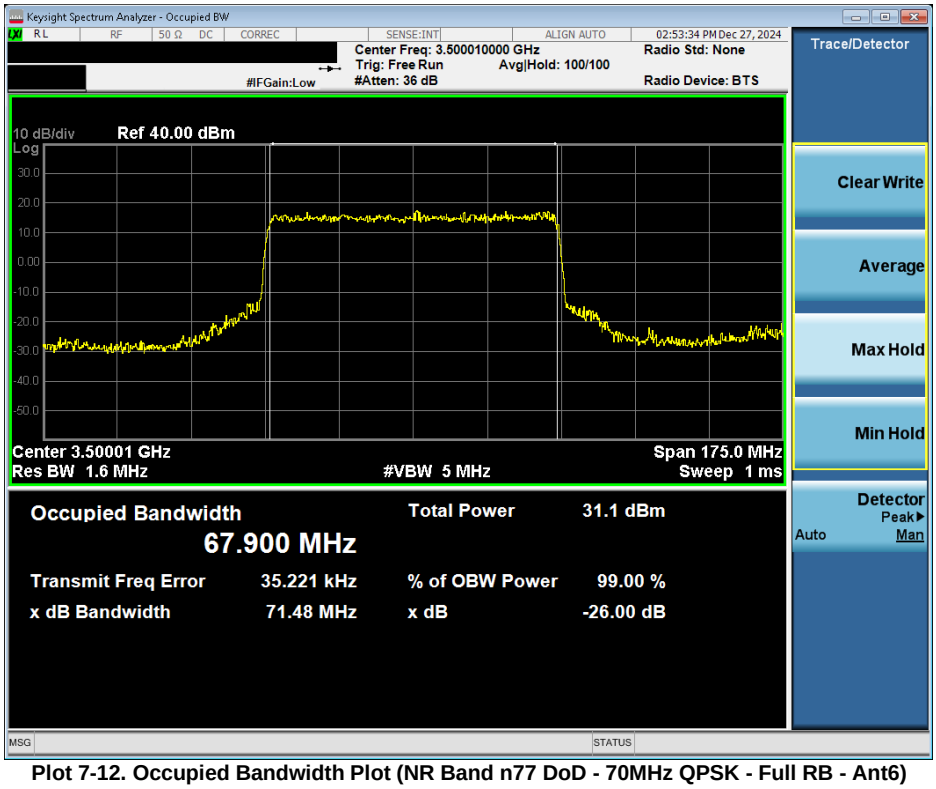


Plot 7-11. Occupied Bandwidth Plot (NR Band n77 DoD - 70MHz π/2 BPSK - Full RB - Ant6)



Plot 7-12. Occupied Bandwidth Plot (NR Band n77 DoD - 70MHz QPSK - Full RB - Ant6)

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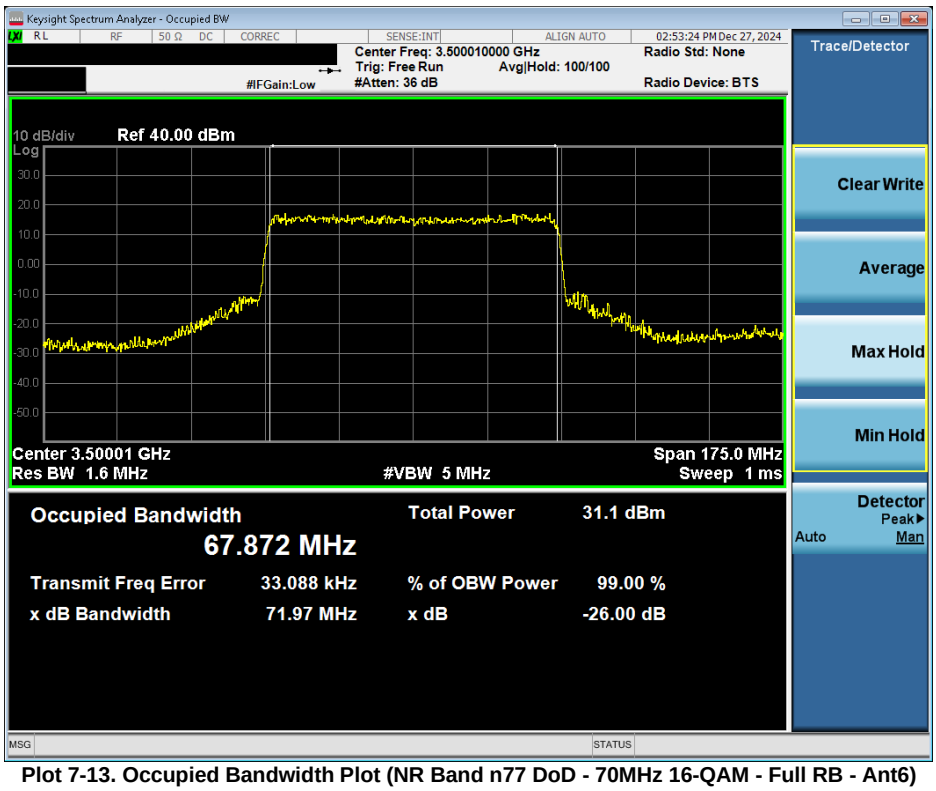
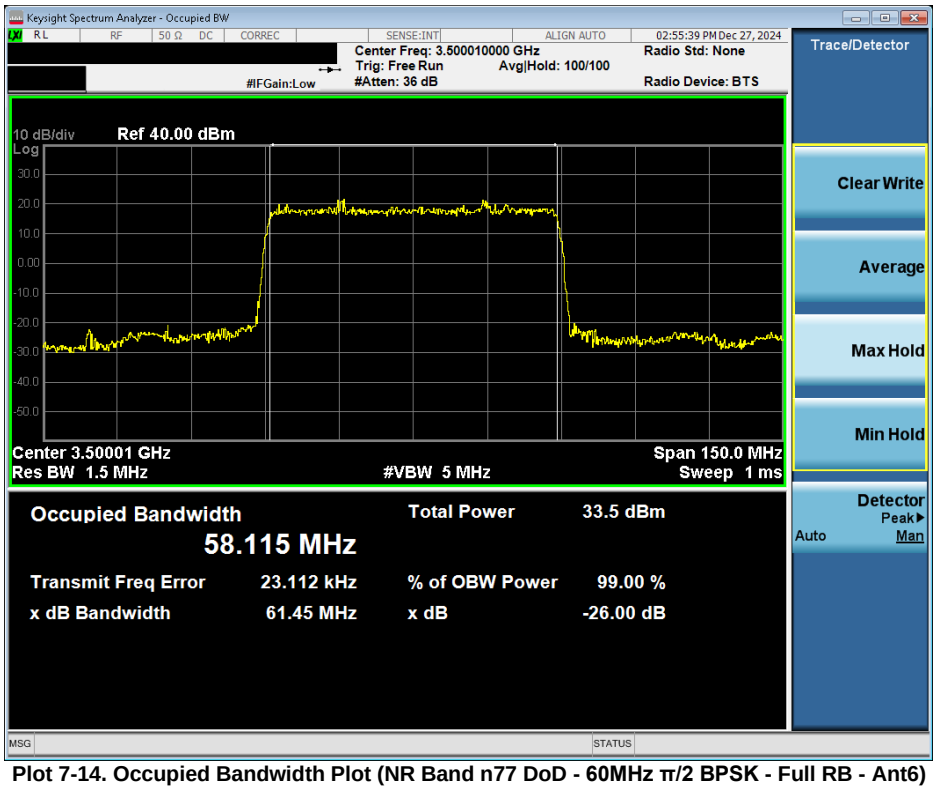


Plot 7-13. Occupied Bandwidth Plot (NR Band n77 DoD - 70MHz 16-QAM - Full RB - Ant6)



Plot 7-14. Occupied Bandwidth Plot (NR Band n77 DoD - 60MHz π/2 BPSK - Full RB - Ant6)

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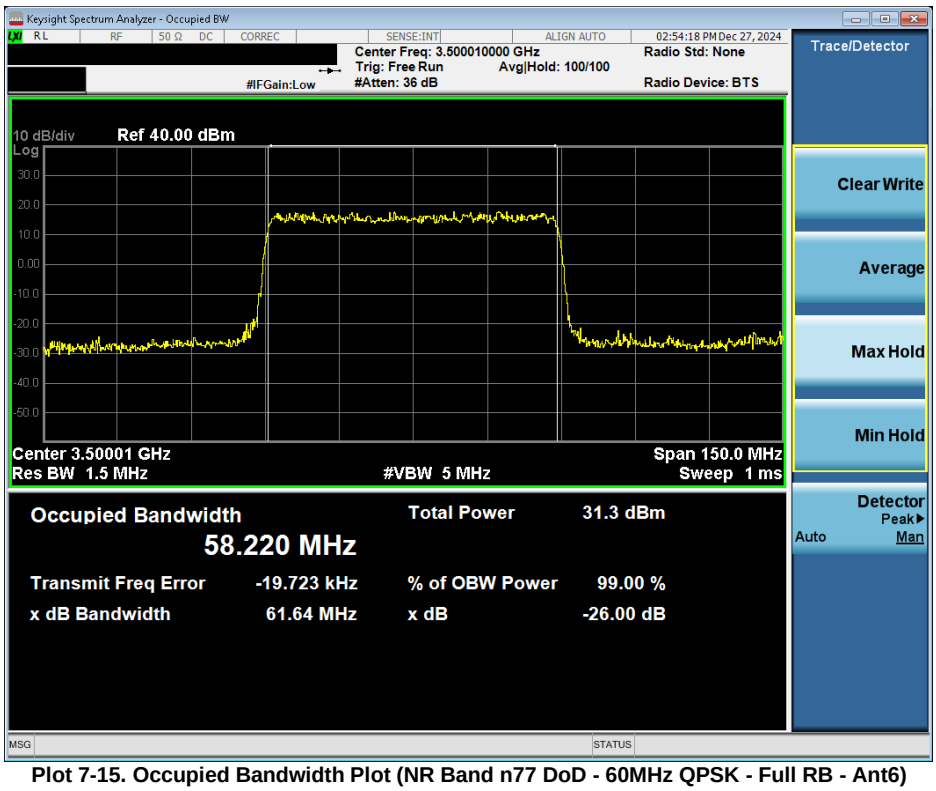
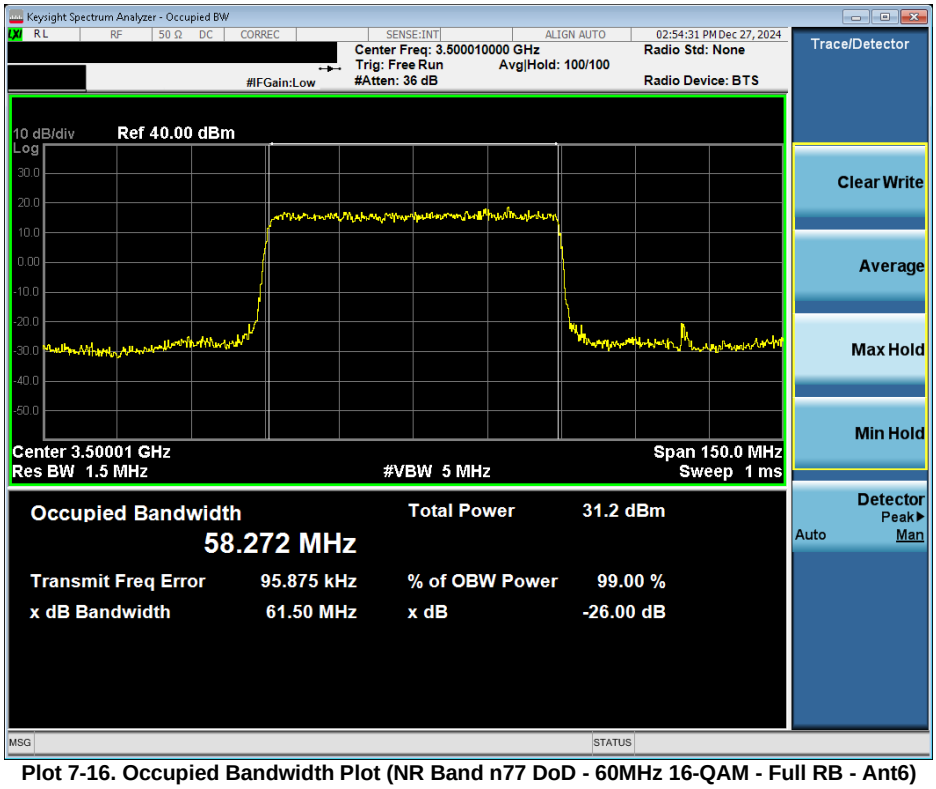


Plot 7-15. Occupied Bandwidth Plot (NR Band n77 DoD - 60MHz QPSK - Full RB - Ant6)



Plot 7-16. Occupied Bandwidth Plot (NR Band n77 DoD - 60MHz 16-QAM - Full RB - Ant6)

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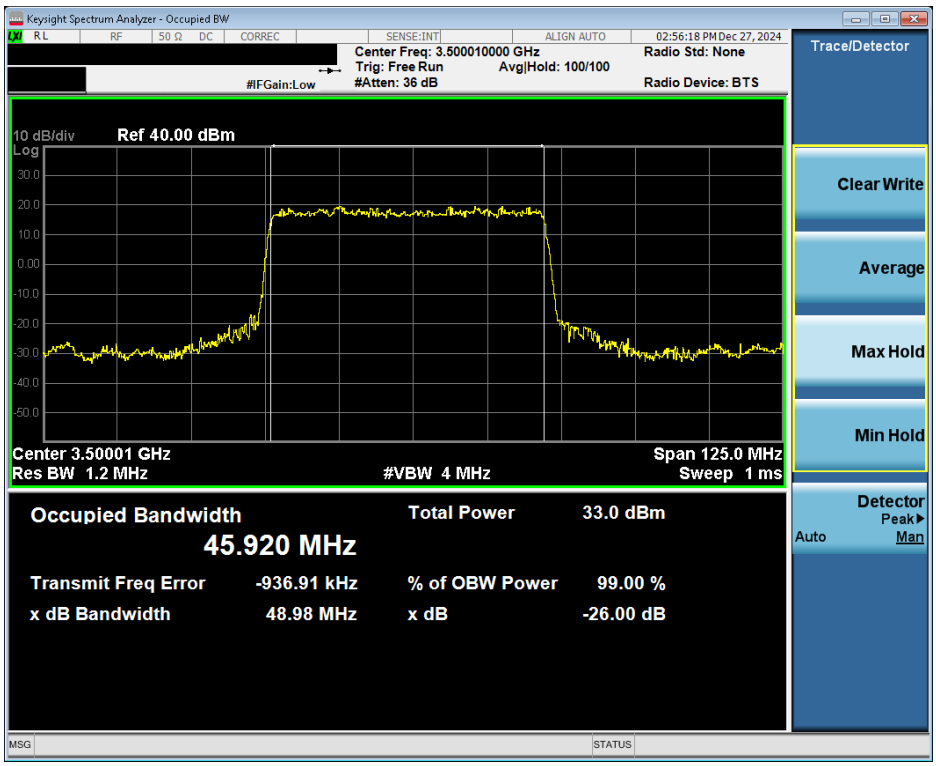
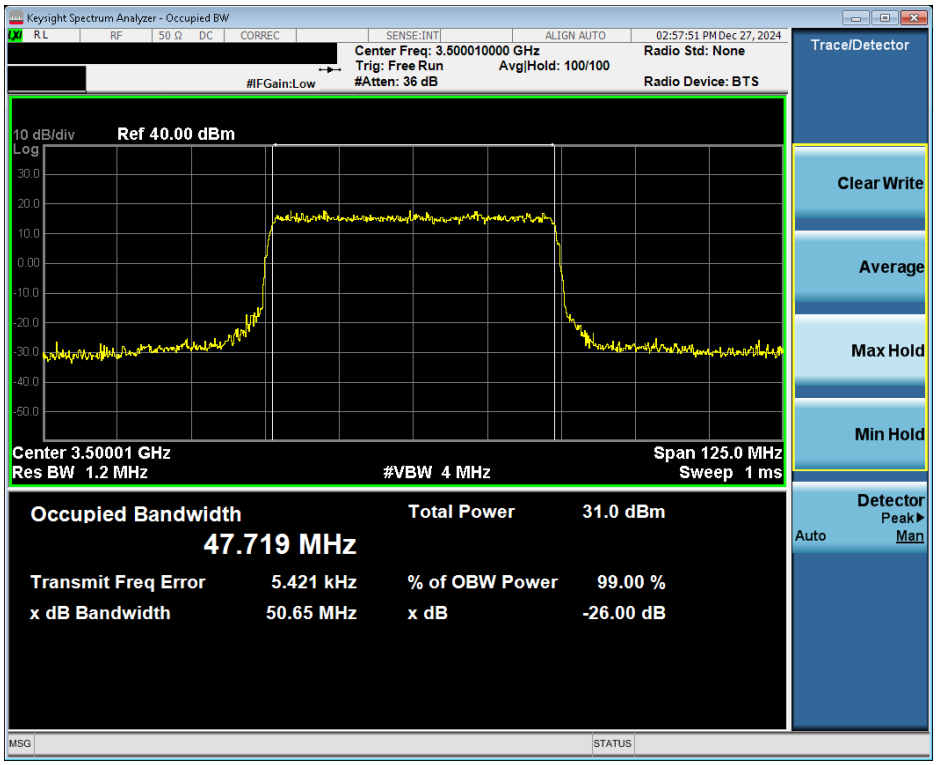


Plot 7-17. Occupied Bandwidth Plot (NR Band n77 DoD - 50MHz π/2 BPSK - Full RB - Ant6)



Plot 7-18. Occupied Bandwidth Plot (NR Band n77 DoD - 50MHz QPSK - Full RB - Ant6)

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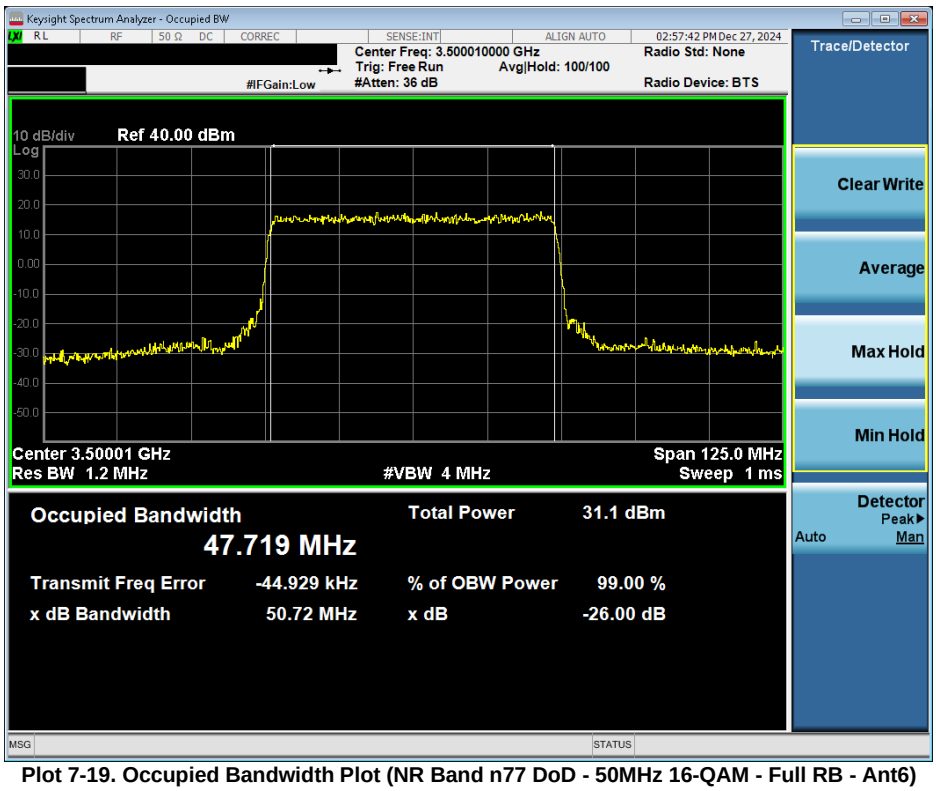
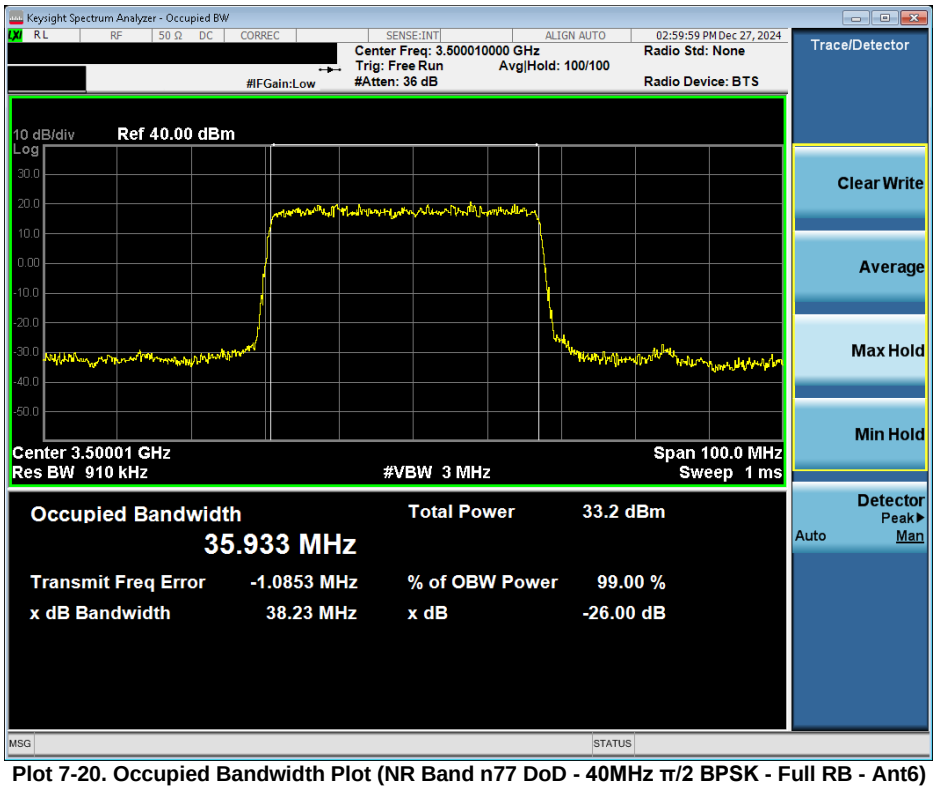


Plot 7-19. Occupied Bandwidth Plot (NR Band n77 DoD - 50MHz 16-QAM - Full RB - Ant6)



Plot 7-20. Occupied Bandwidth Plot (NR Band n77 DoD - 40MHz π/2 BPSK - Full RB - Ant6)

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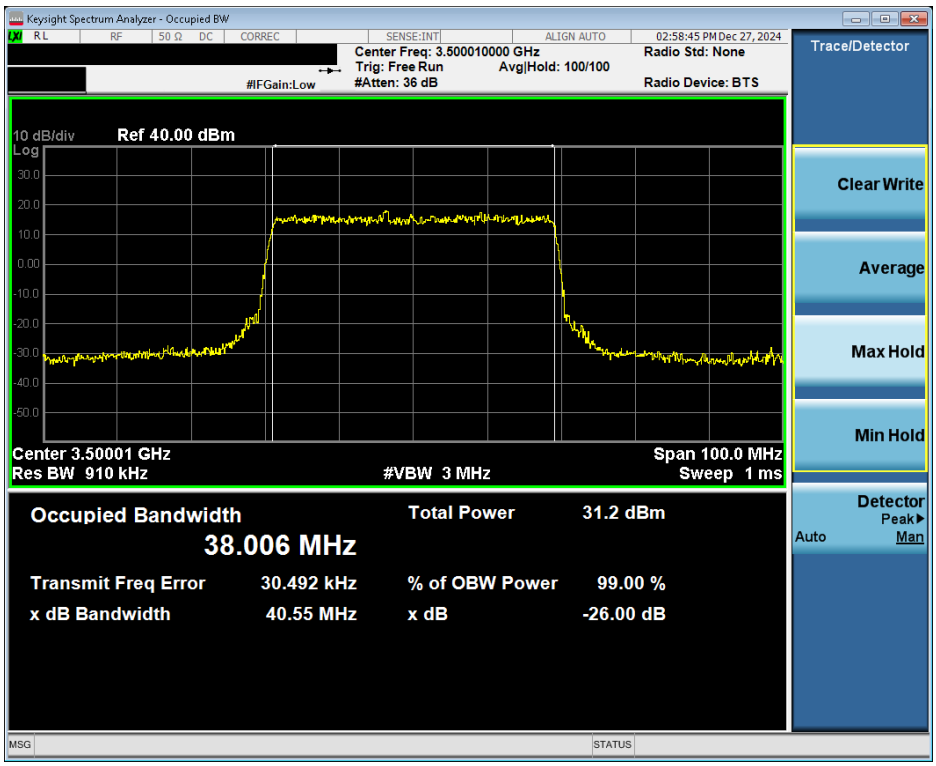
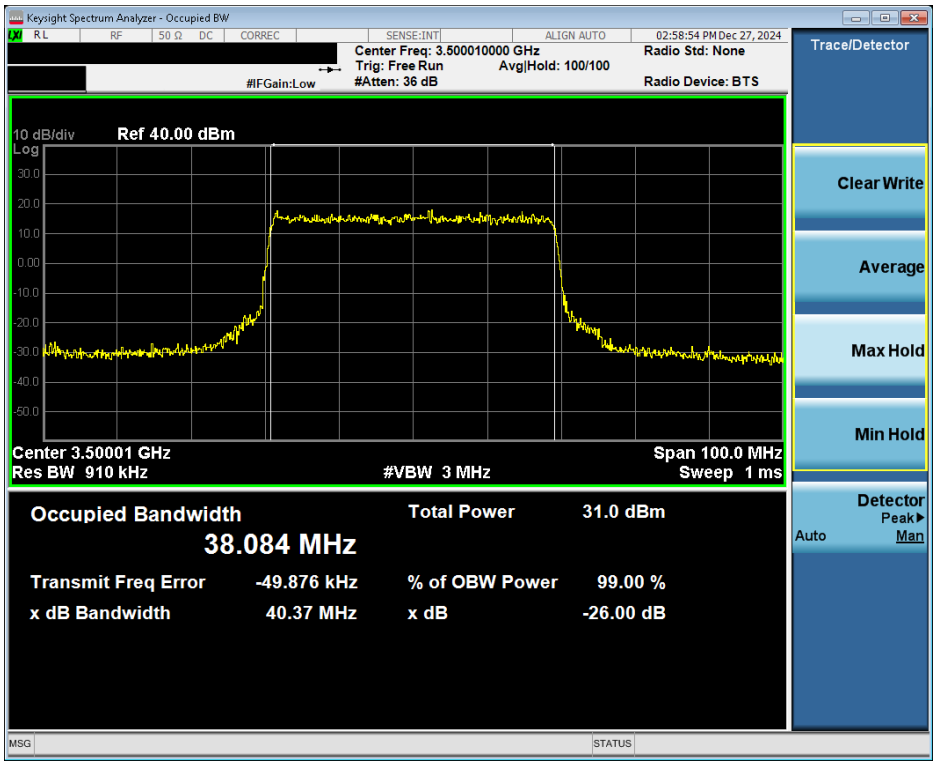


Plot 7-21. Occupied Bandwidth Plot (NR Band n77 DoD - 40MHz QPSK - Full RB - Ant6)



Plot 7-22. Occupied Bandwidth Plot (NR Band n77 DoD - 40MHz 16-QAM - Full RB - Ant6)

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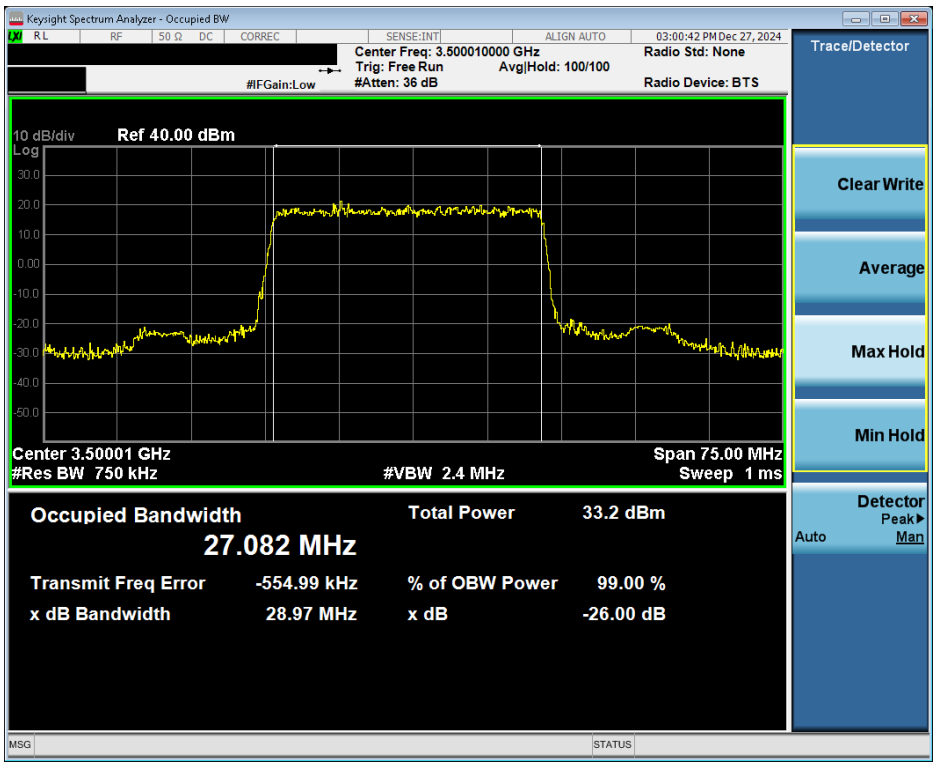
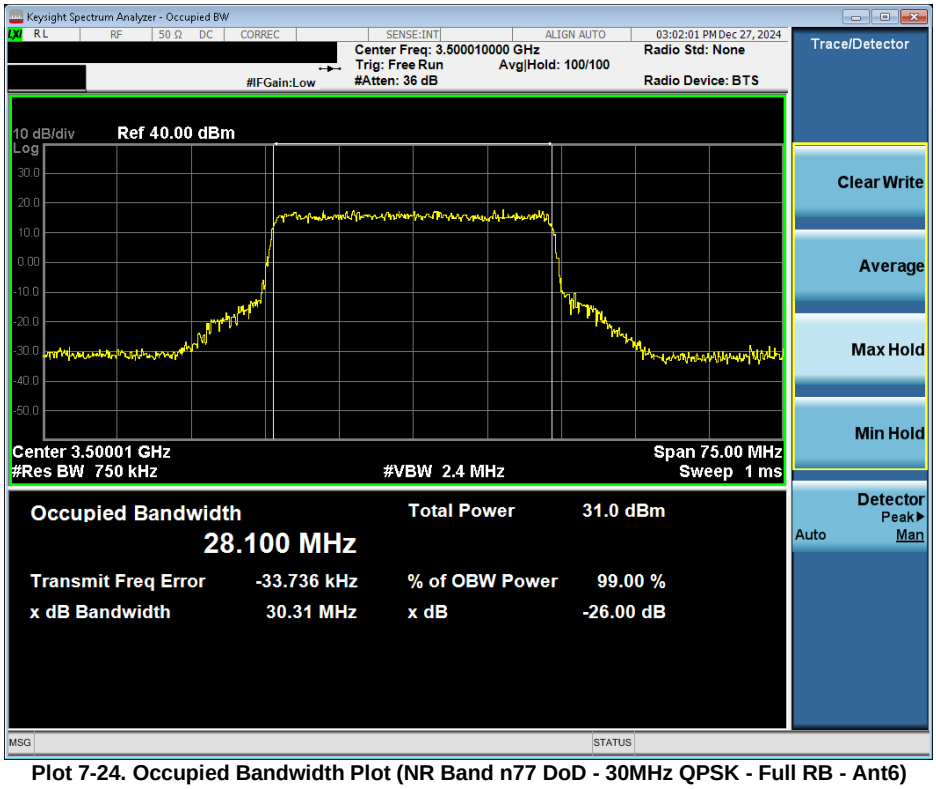


Plot 7-23. Occupied Bandwidth Plot (NR Band n77 DoD - 30MHz π/2 BPSK - Full RB - Ant6)



Plot 7-24. Occupied Bandwidth Plot (NR Band n77 DoD - 30MHz QPSK - Full RB - Ant6)

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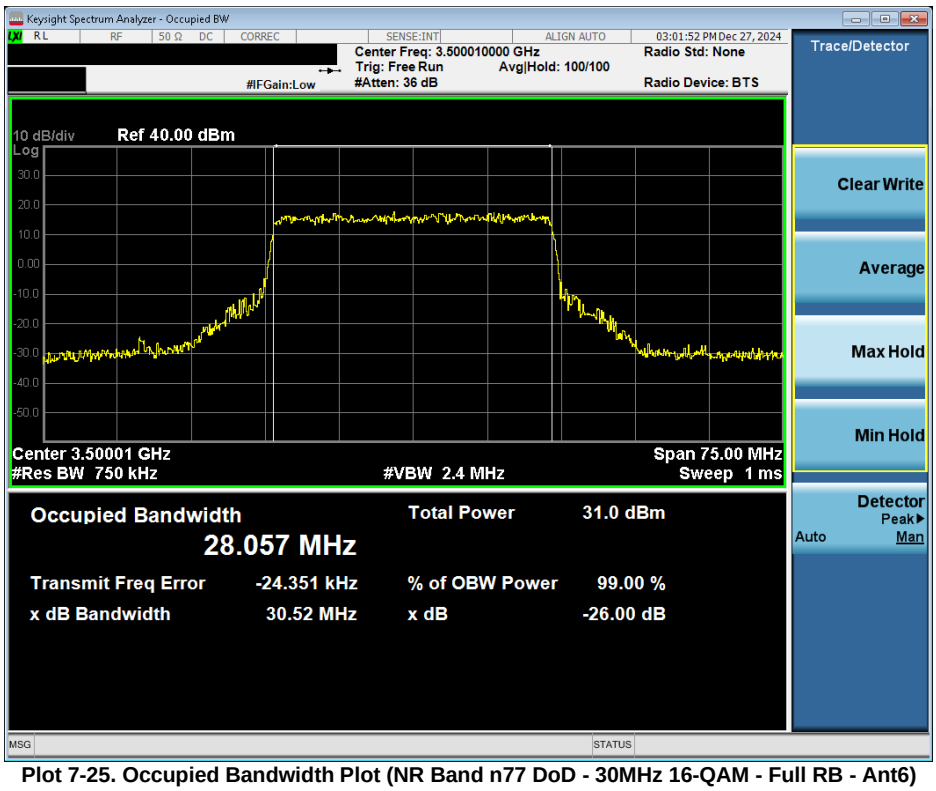
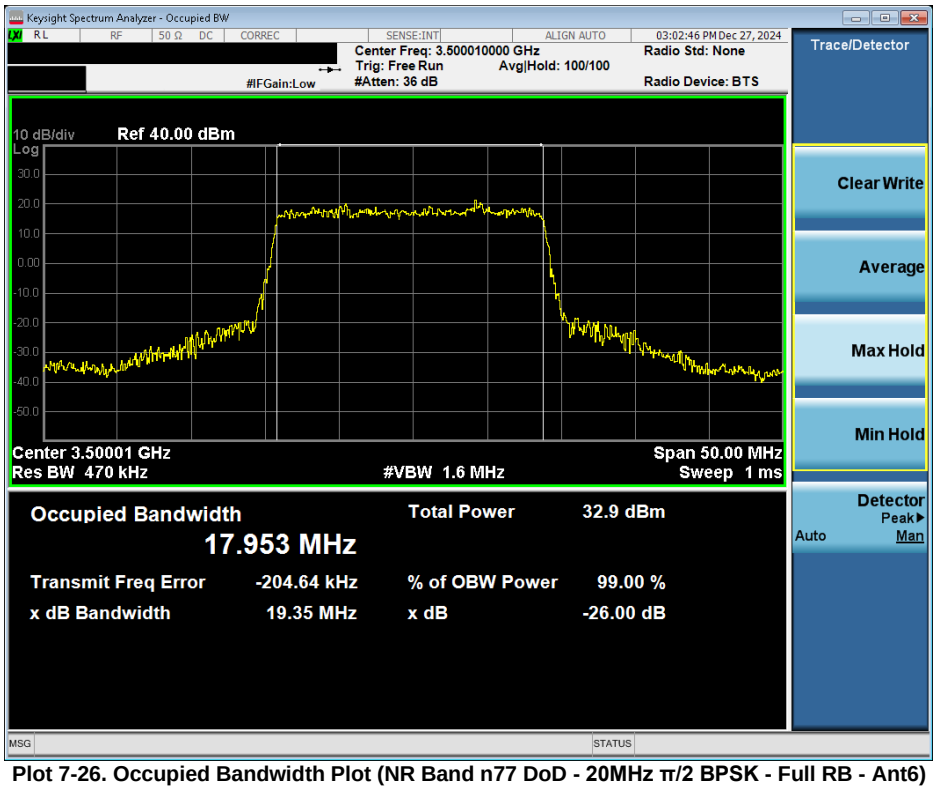


Plot 7-25. Occupied Bandwidth Plot (NR Band n77 DoD - 30MHz 16-QAM - Full RB - Ant6)



Plot 7-26. Occupied Bandwidth Plot (NR Band n77 DoD - 20MHz π/2 BPSK - Full RB - Ant6)

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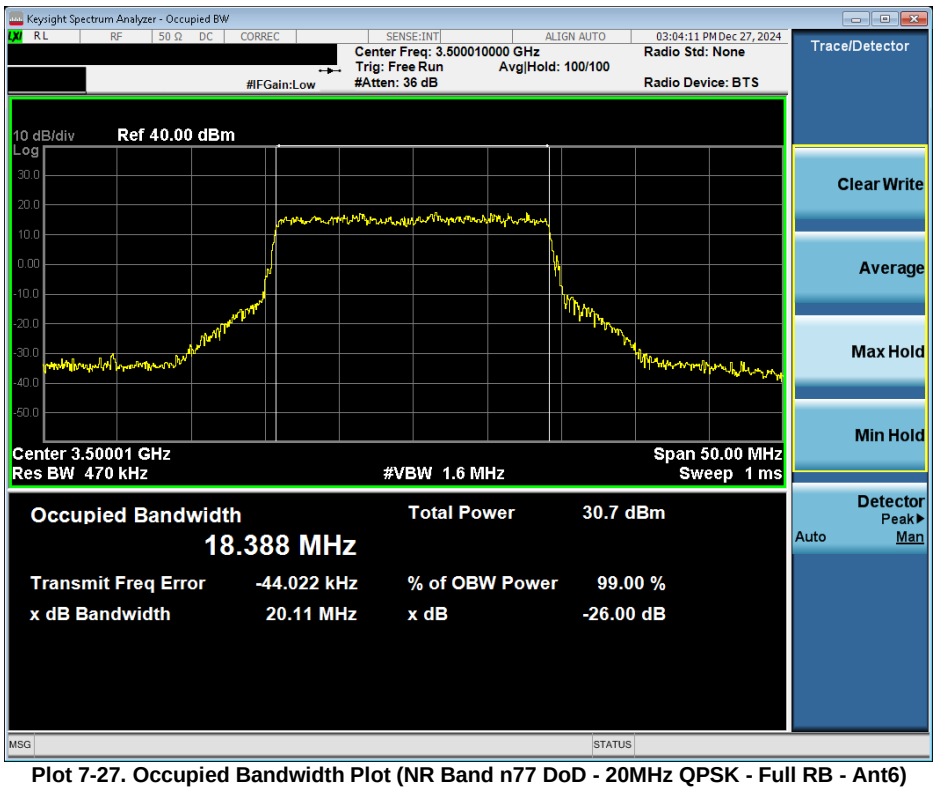
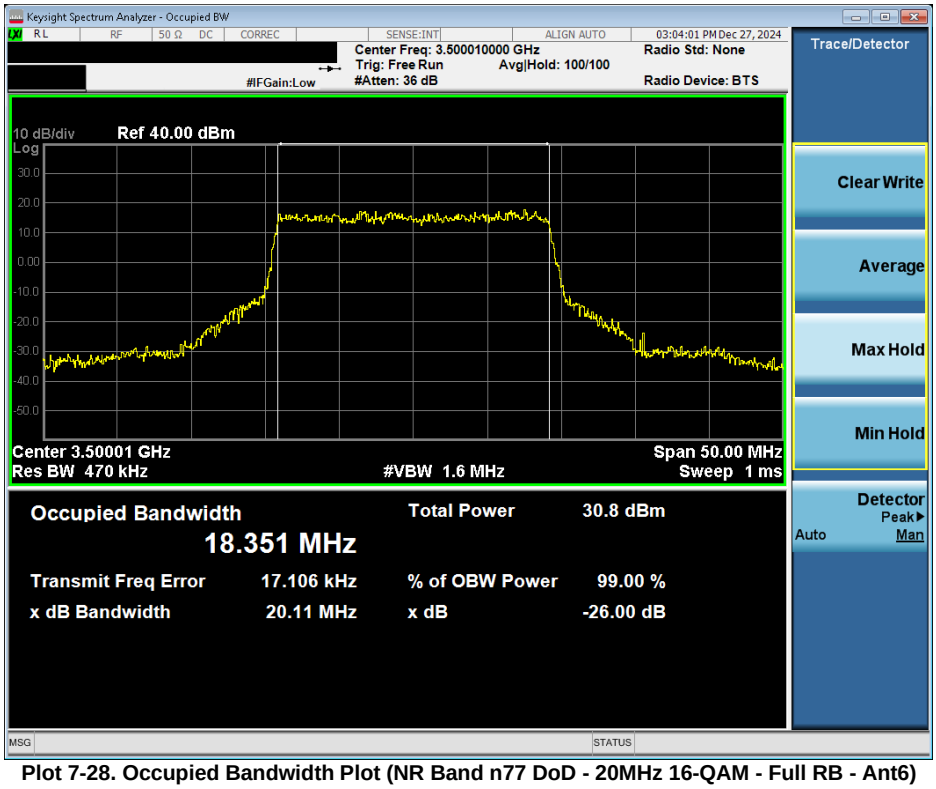


Plot 7-27. Occupied Bandwidth Plot (NR Band n77 DoD - 20MHz QPSK - Full RB - Ant6)



Plot 7-28. Occupied Bandwidth Plot (NR Band n77 DoD - 20MHz 16-QAM - Full RB - Ant6)

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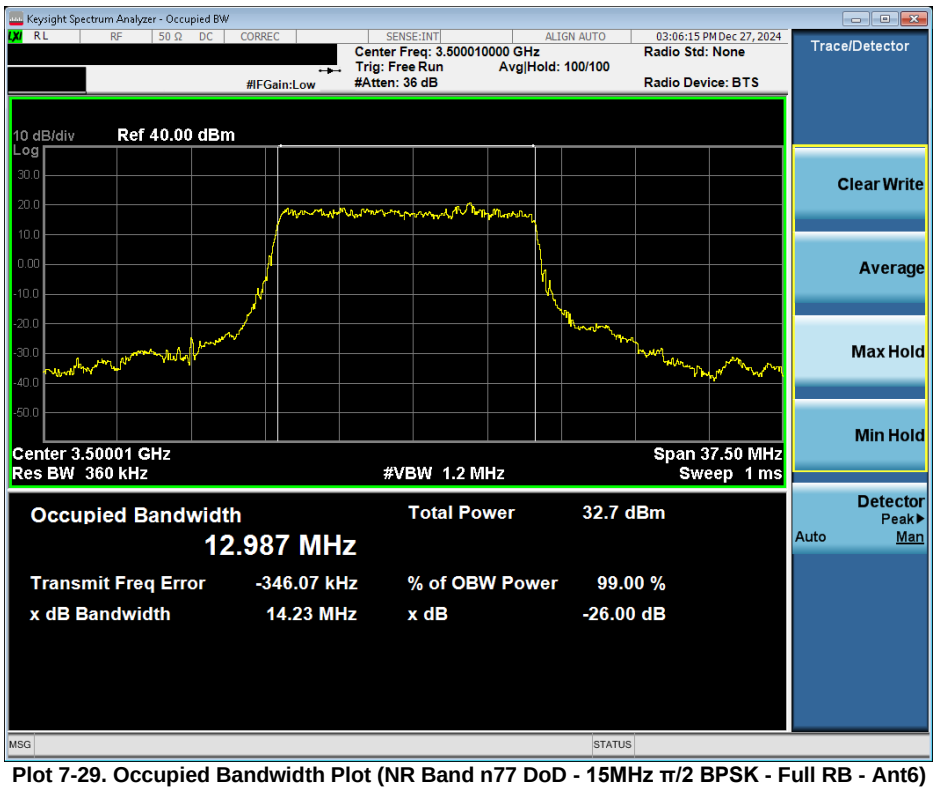
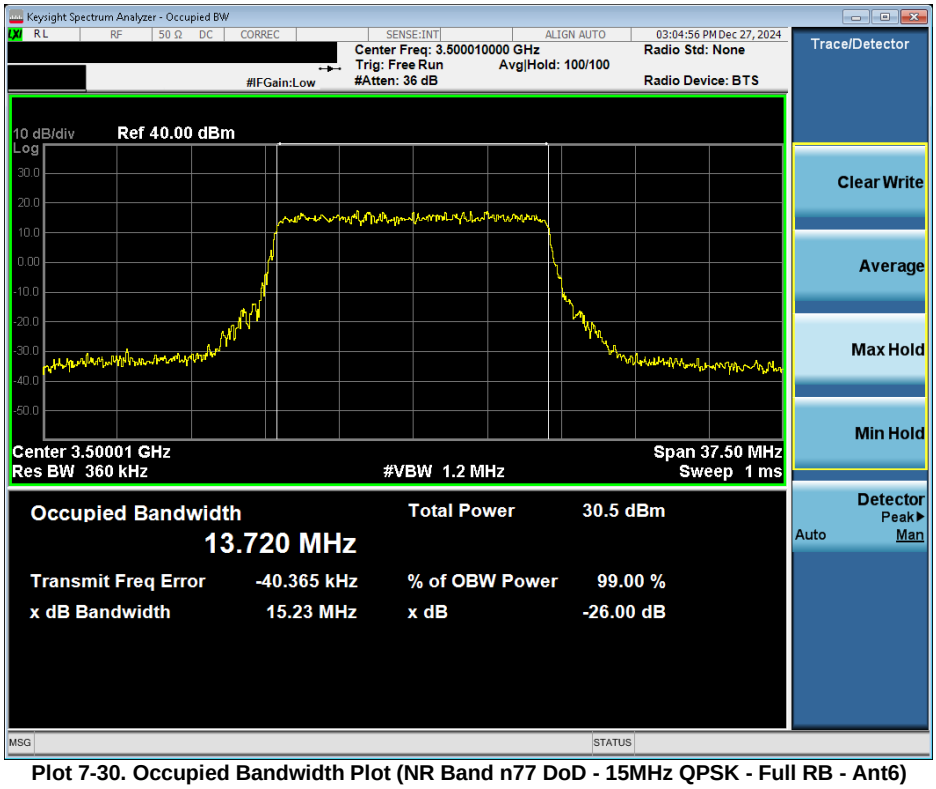


Plot 7-29. Occupied Bandwidth Plot (NR Band n77 DoD - 15MHz π/2 BPSK - Full RB - Ant6)



Plot 7-30. Occupied Bandwidth Plot (NR Band n77 DoD - 15MHz QPSK - Full RB - Ant6)

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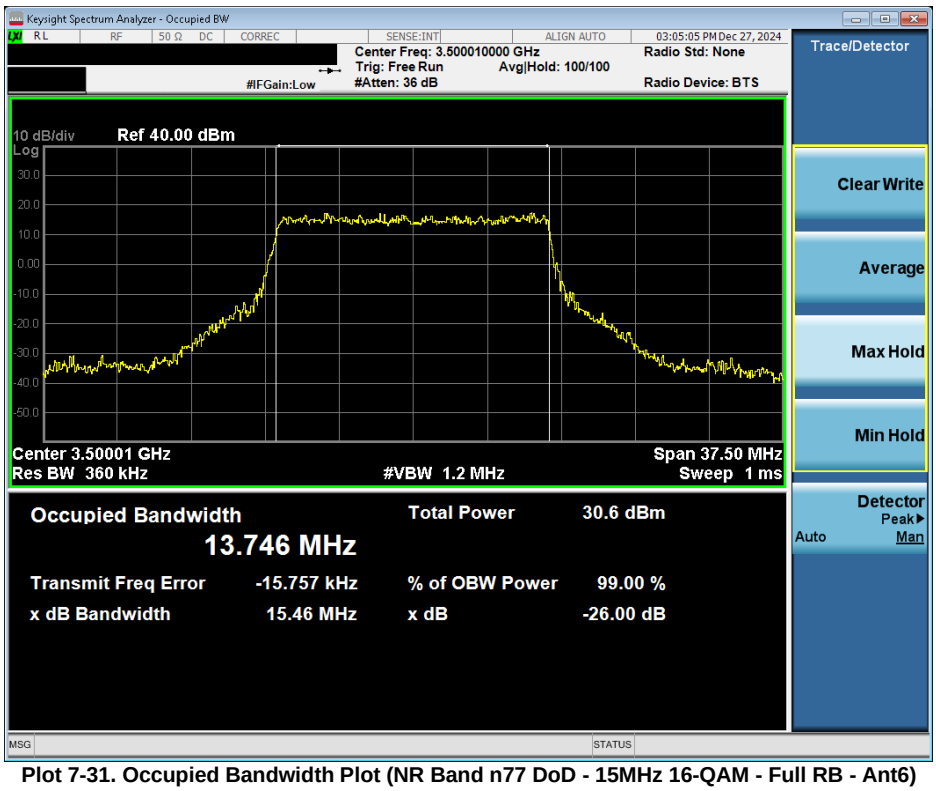
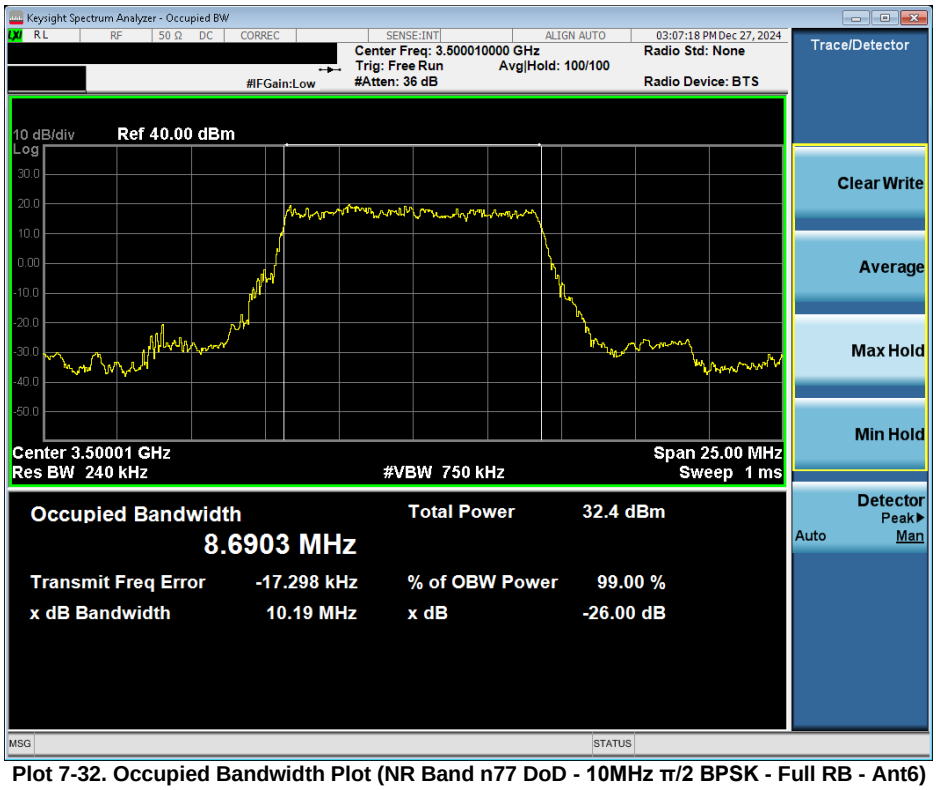


Plot 7-31. Occupied Bandwidth Plot (NR Band n77 DoD - 15MHz 16-QAM - Full RB - Ant6)



Plot 7-32. Occupied Bandwidth Plot (NR Band n77 DoD - 10MHz π/2 BPSK - Full RB - Ant6)

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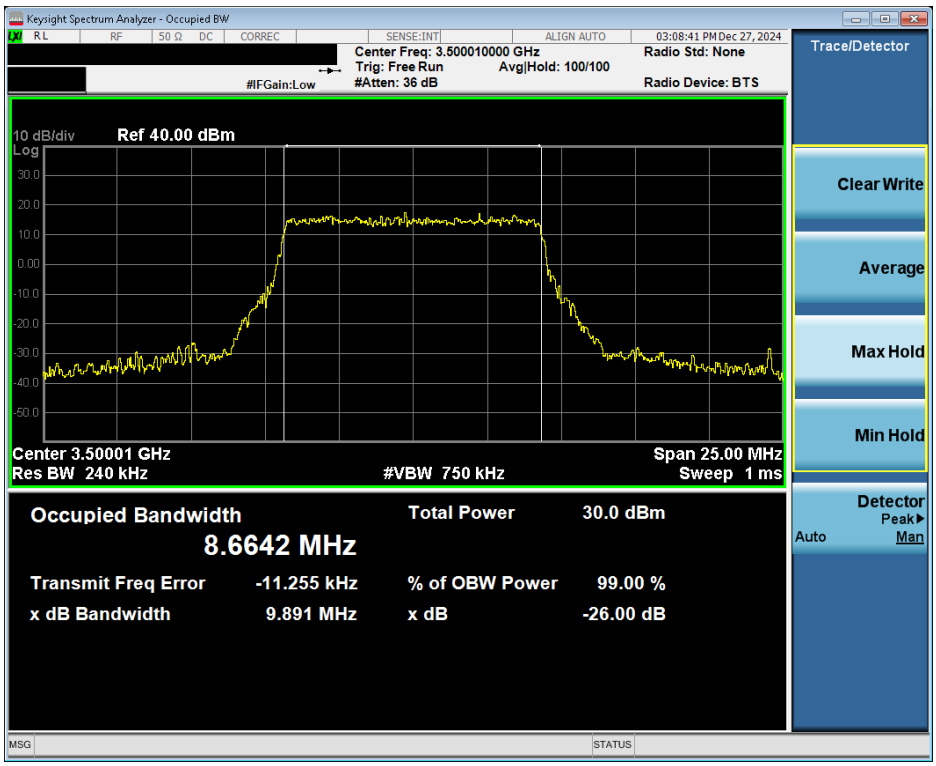
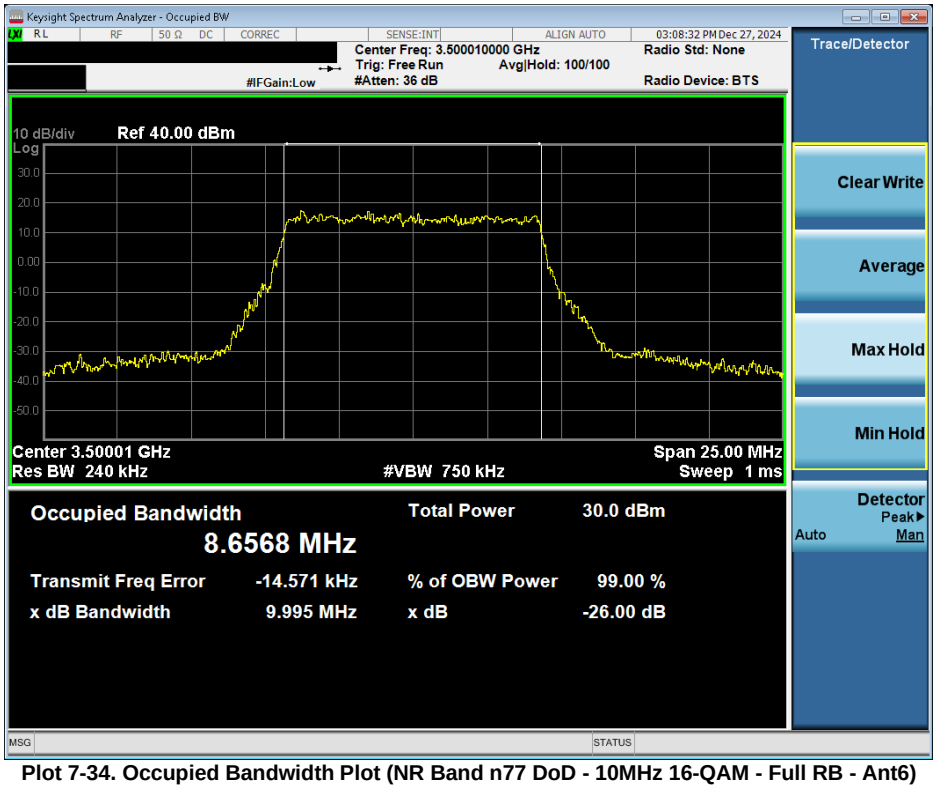


Plot 7-33. Occupied Bandwidth Plot (NR Band n77 DoD - 10MHz QPSK - Full RB - Ant6)



Plot 7-34. Occupied Bandwidth Plot (NR Band n77 DoD - 10MHz 16-QAM - Full RB - Ant6)

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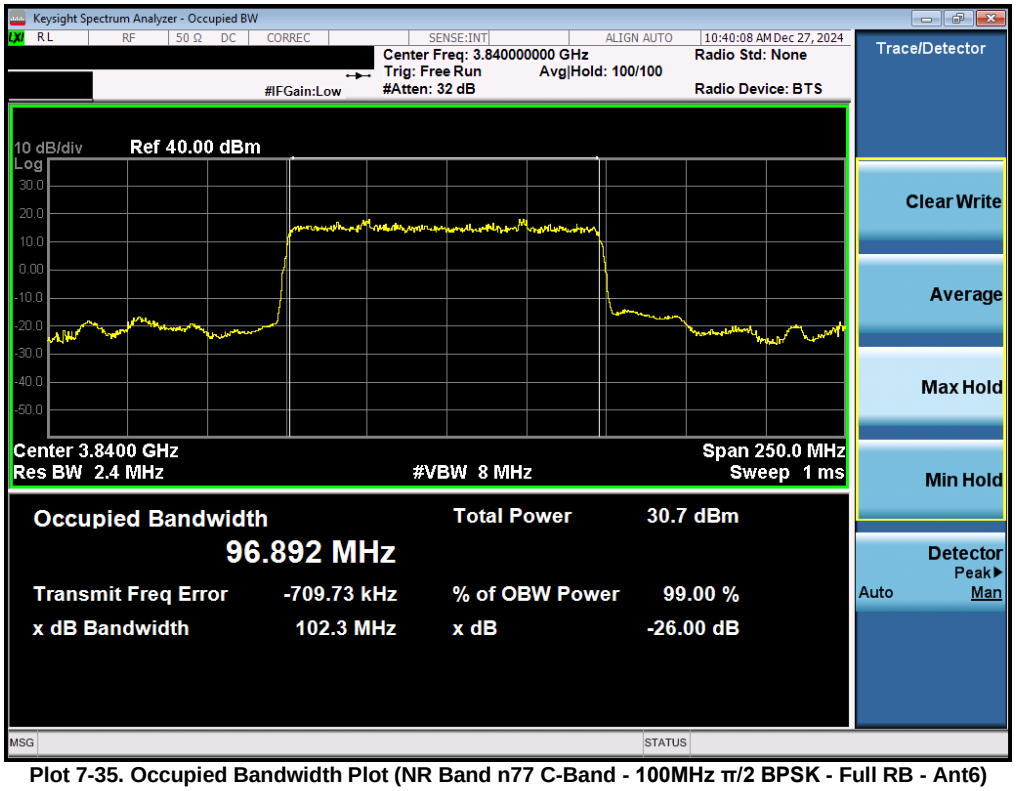
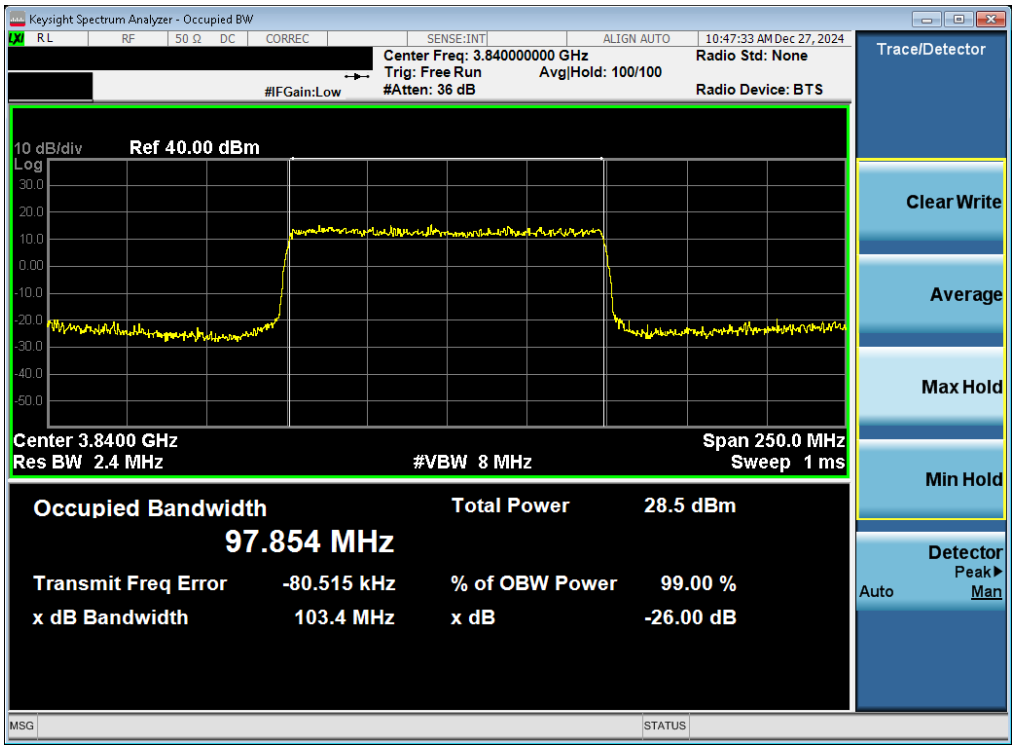
NR Band n77 C-Band – Ant6



Plot 7-35. Occupied Bandwidth Plot (NR Band n77 C-Band - 100MHz π/2 BPSK - Full RB - Ant6)



Plot 7-36. Occupied Bandwidth Plot (NR Band n77 C-Band - 100MHz QPSK - Full RB - Ant6)

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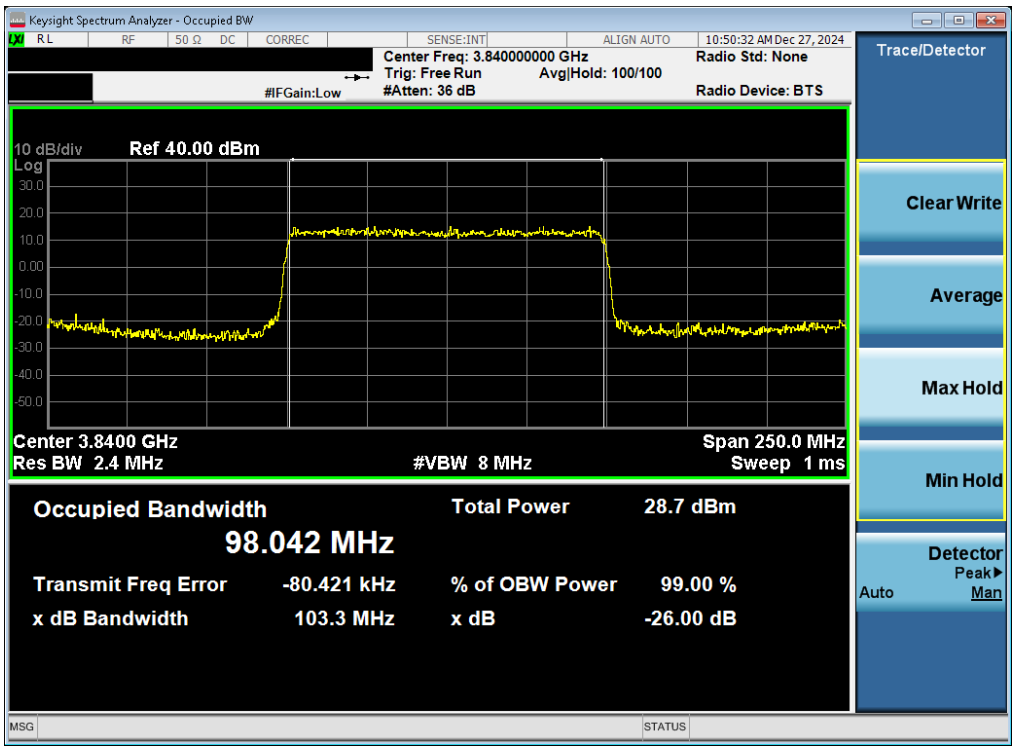
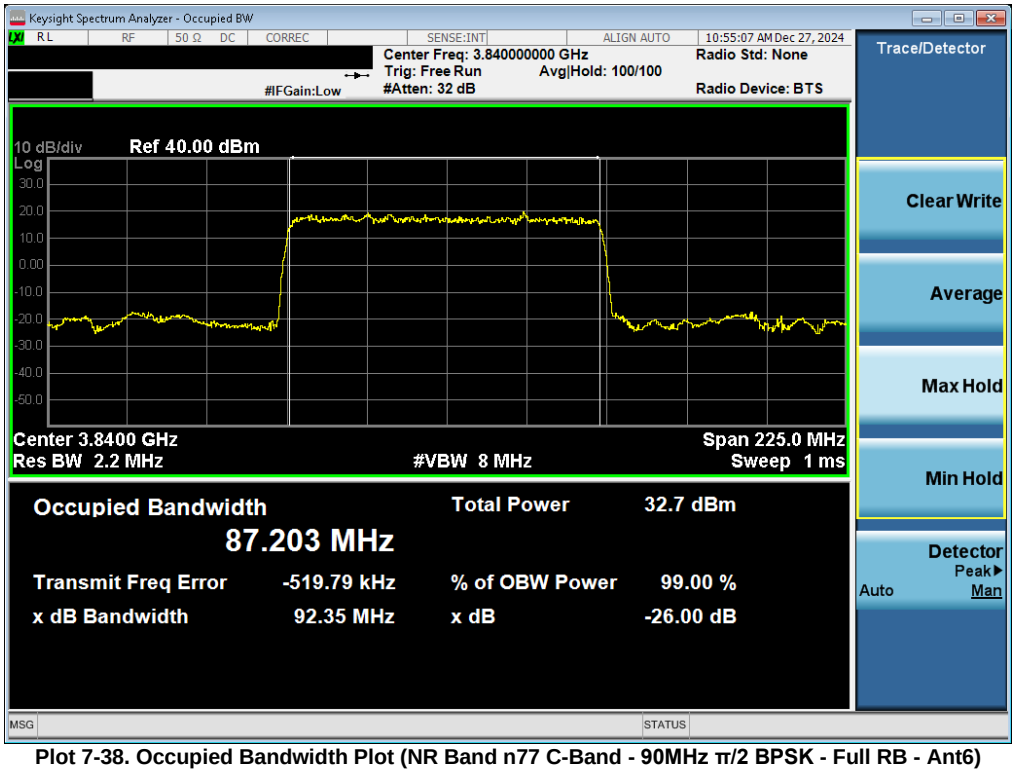


Plot 7-37. Occupied Bandwidth Plot (NR Band n77 C-Band - 100MHz 16-QAM - Full RB - Ant6)



Plot 7-38. Occupied Bandwidth Plot (NR Band n77 C-Band - 90MHz π/2 BPSK - Full RB - Ant6)

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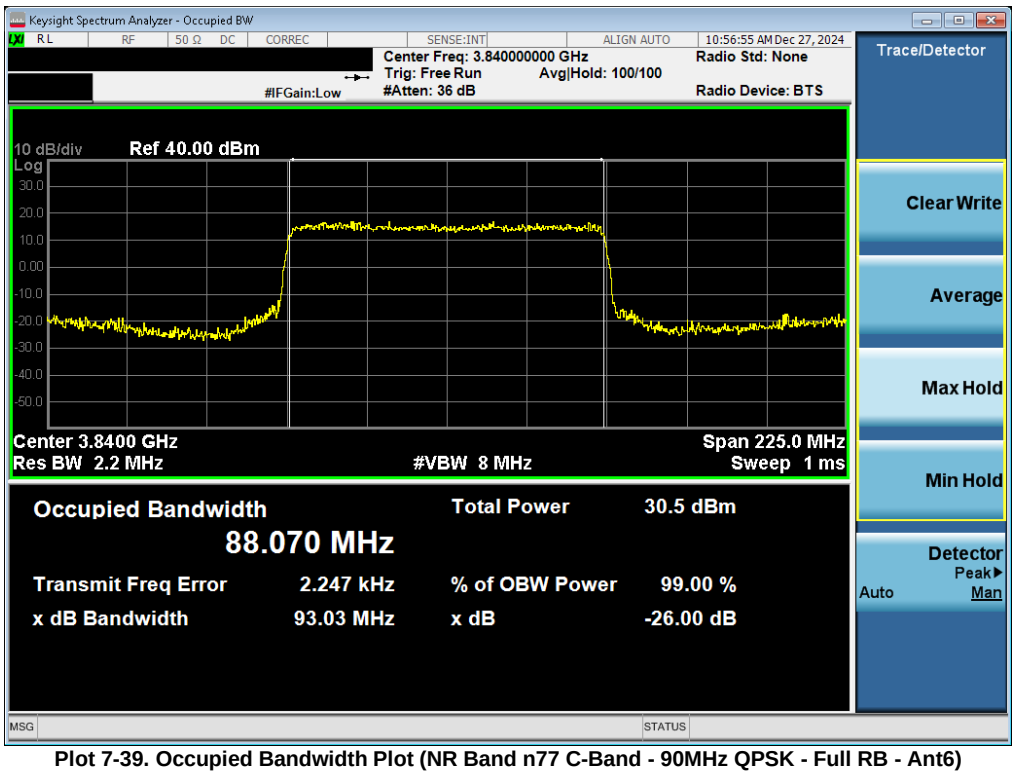
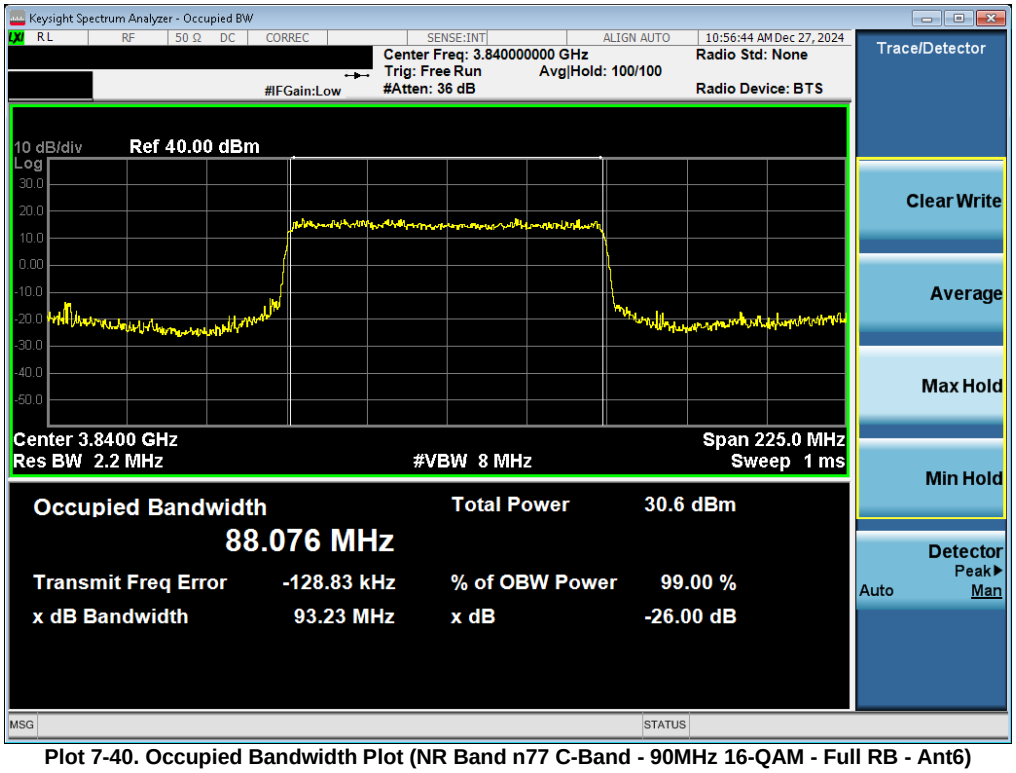


Plot 7-39. Occupied Bandwidth Plot (NR Band n77 C-Band - 90MHz QPSK - Full RB - Ant6)



Plot 7-40. Occupied Bandwidth Plot (NR Band n77 C-Band - 90MHz 16-QAM - Full RB - Ant6)

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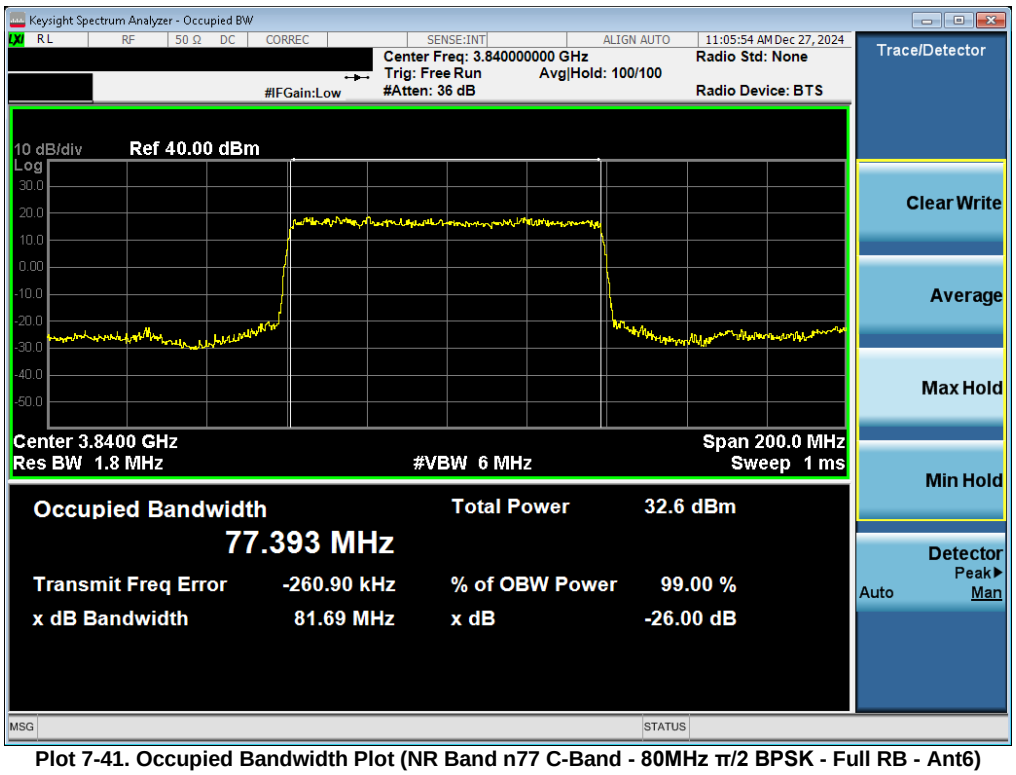
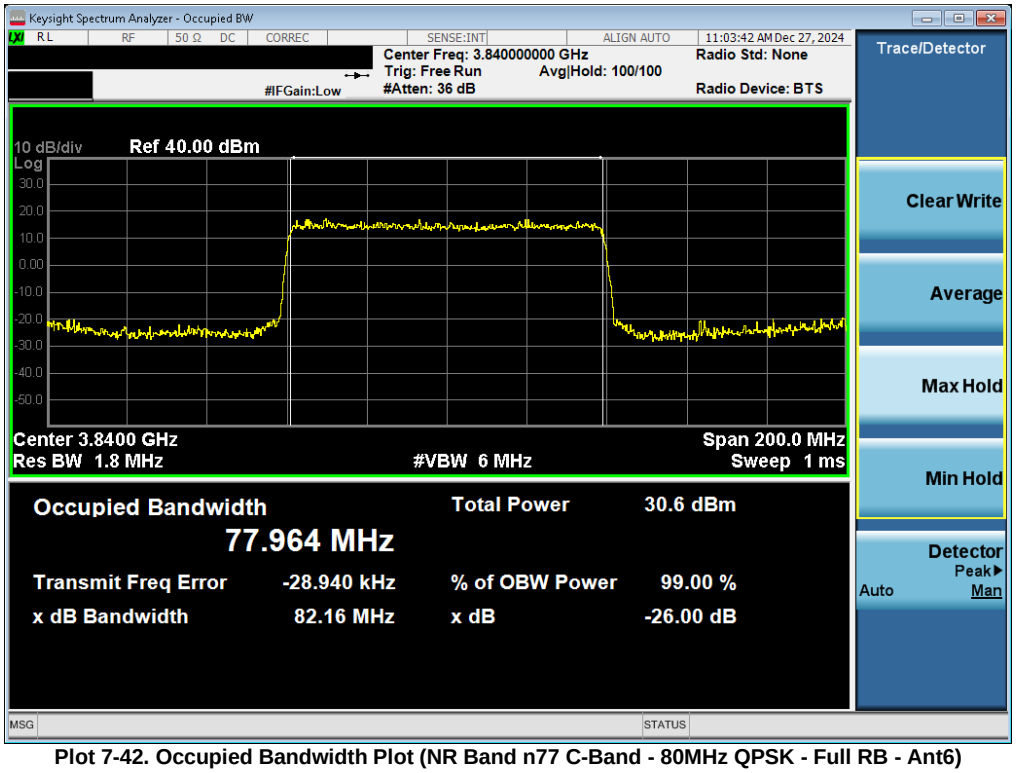


Plot 7-41. Occupied Bandwidth Plot (NR Band n77 C-Band - 80MHz π/2 BPSK - Full RB - Ant6)



Plot 7-42. Occupied Bandwidth Plot (NR Band n77 C-Band - 80MHz QPSK - Full RB - Ant6)

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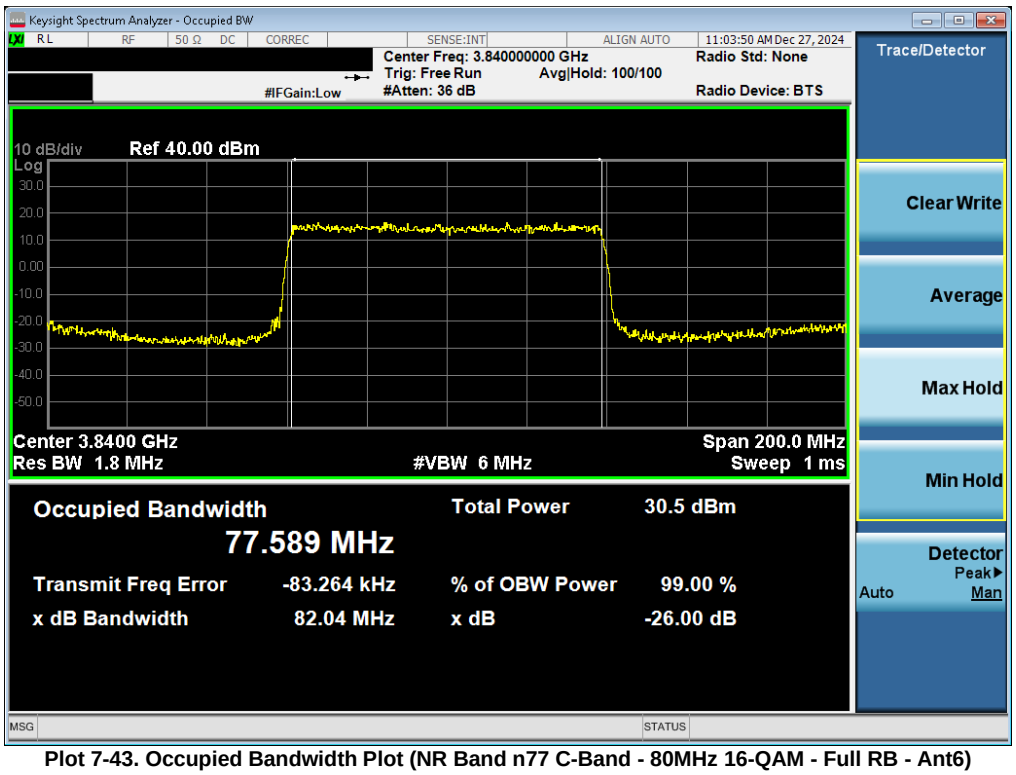
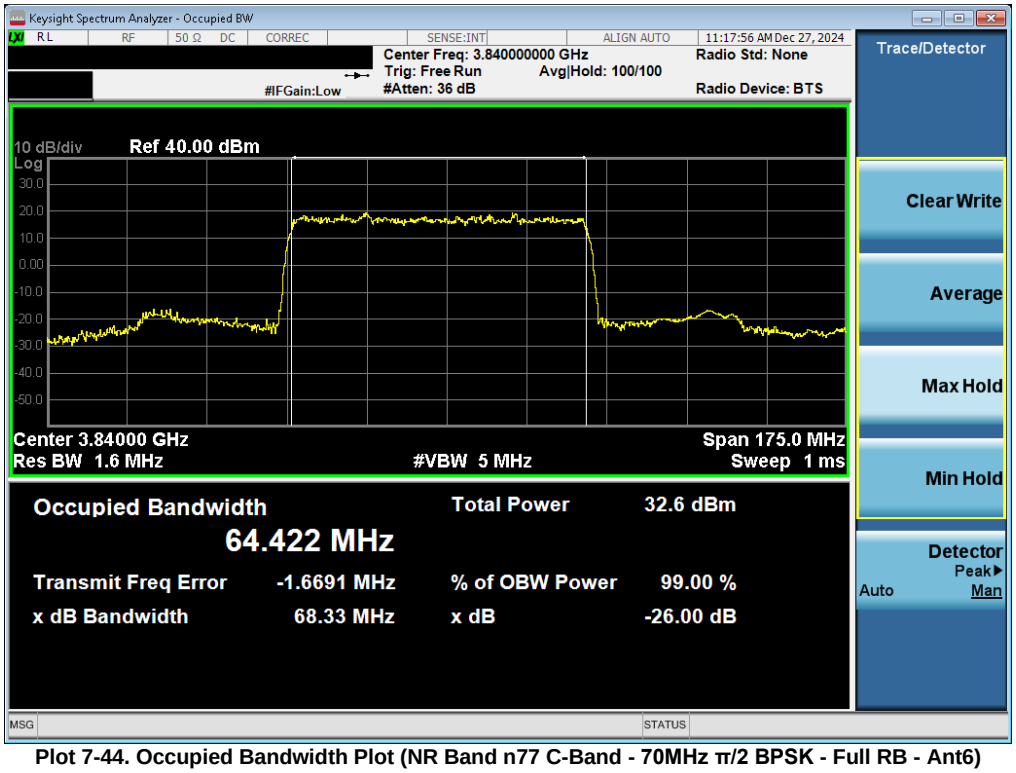


Plot 7-43. Occupied Bandwidth Plot (NR Band n77 C-Band - 80MHz 16-QAM - Full RB - Ant6)



Plot 7-44. Occupied Bandwidth Plot (NR Band n77 C-Band - 70MHz π/2 BPSK - Full RB - Ant6)

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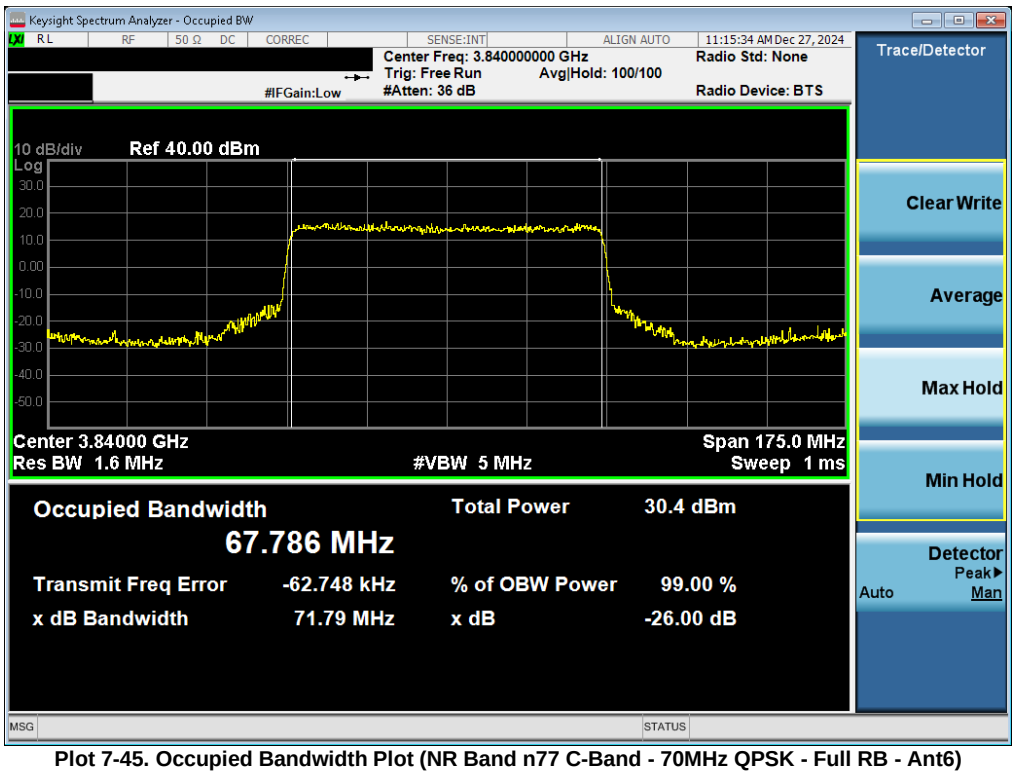
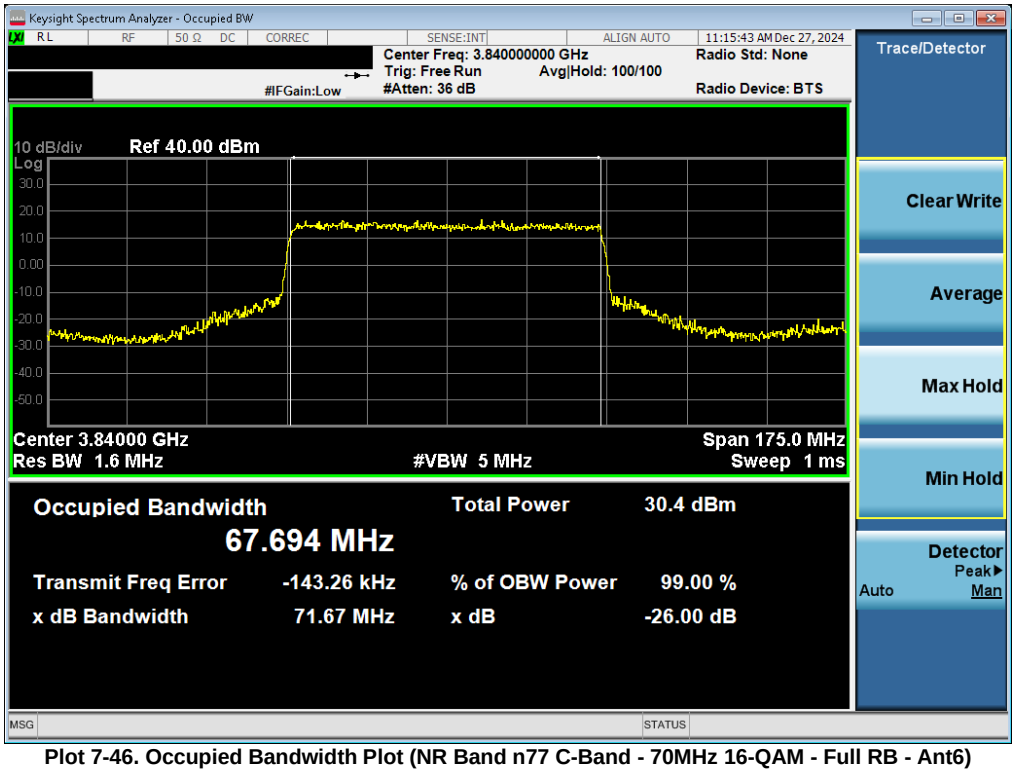


Plot 7-45. Occupied Bandwidth Plot (NR Band n77 C-Band - 70MHz QPSK - Full RB - Ant6)



Plot 7-46. Occupied Bandwidth Plot (NR Band n77 C-Band - 70MHz 16-QAM - Full RB - Ant6)

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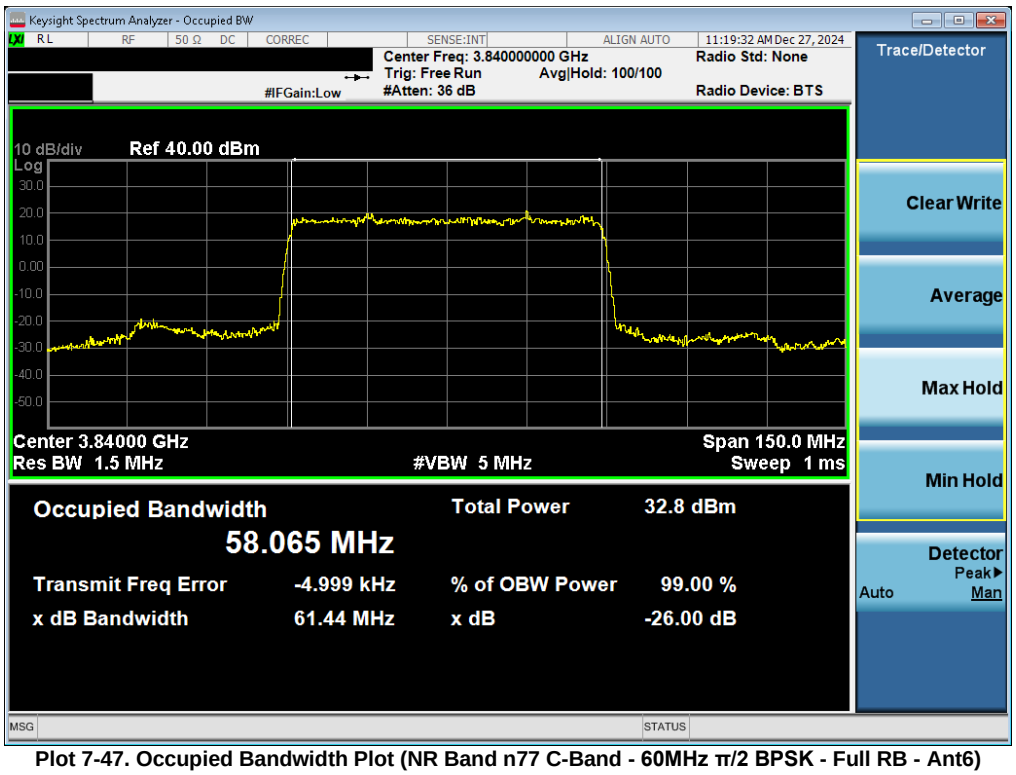
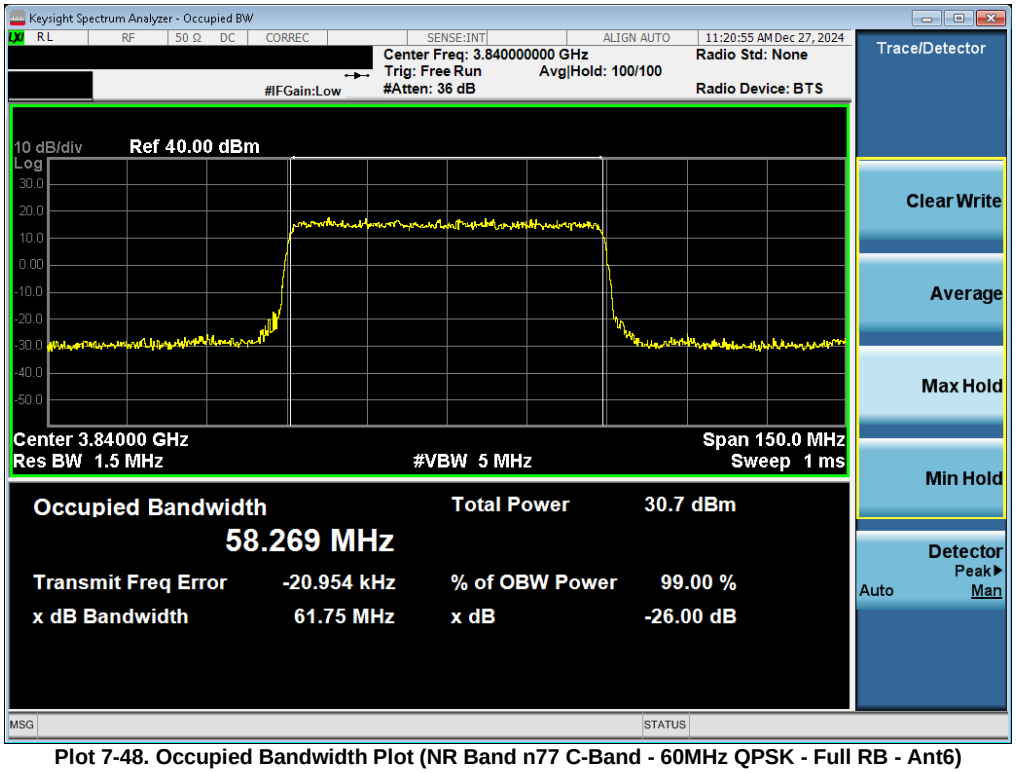


Plot 7-47. Occupied Bandwidth Plot (NR Band n77 C-Band - 60MHz π/2 BPSK - Full RB - Ant6)



Plot 7-48. Occupied Bandwidth Plot (NR Band n77 C-Band - 60MHz QPSK - Full RB - Ant6)

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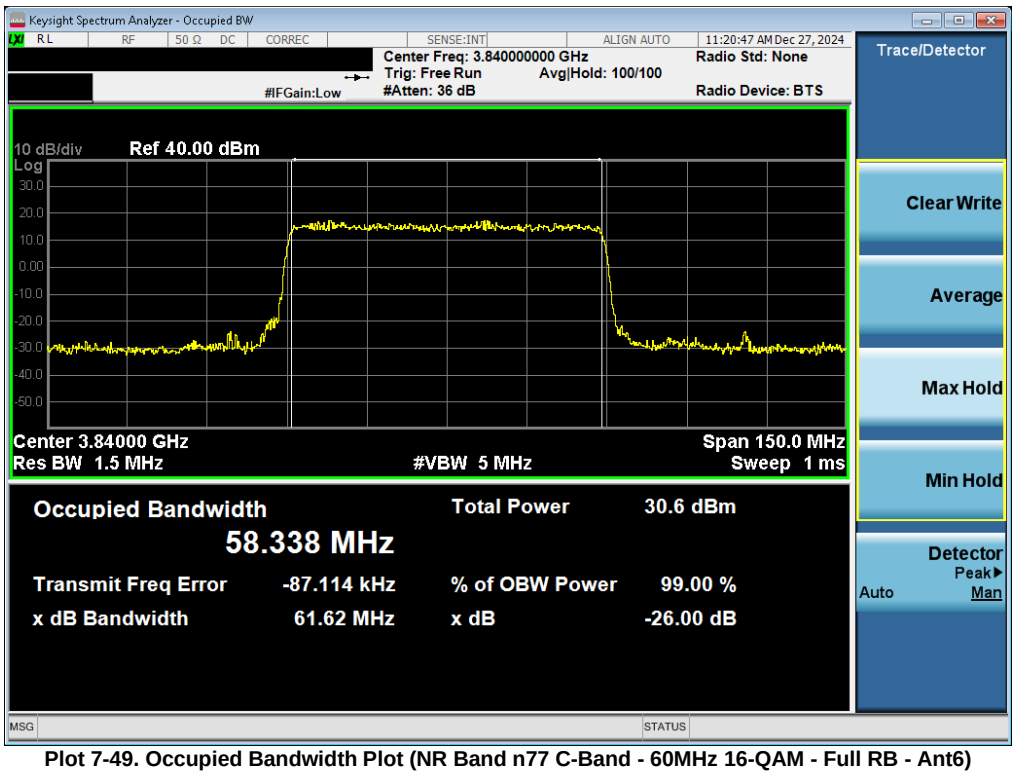
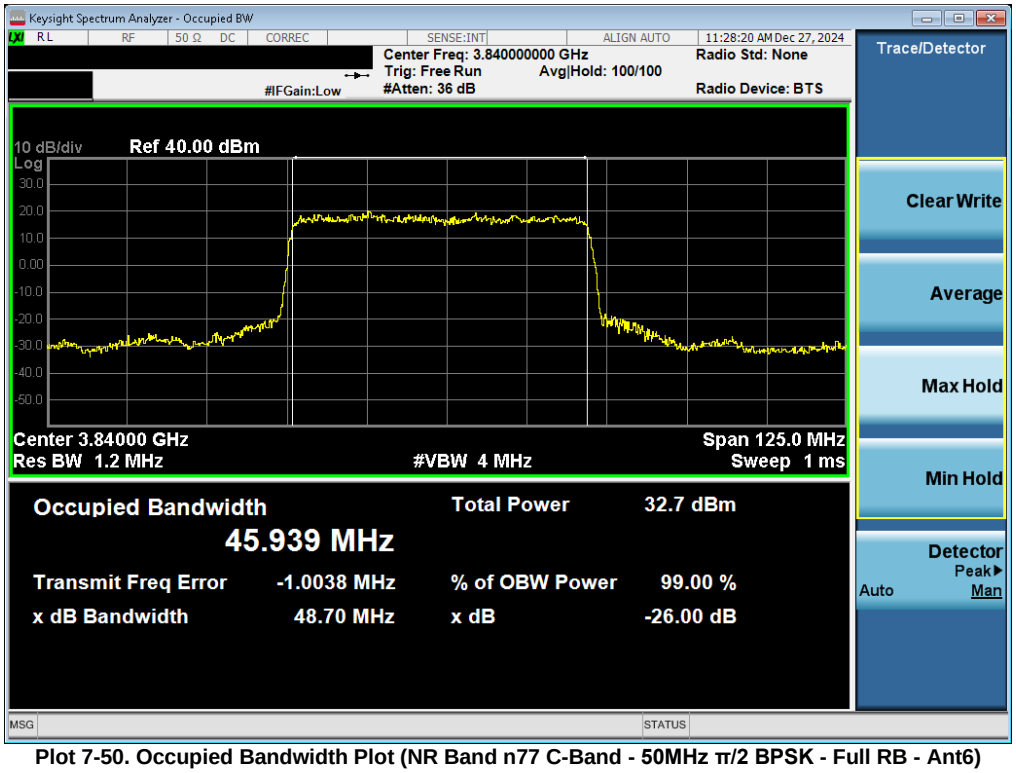


Plot 7-49. Occupied Bandwidth Plot (NR Band n77 C-Band - 60MHz 16-QAM - Full RB - Ant6)



Plot 7-50. Occupied Bandwidth Plot (NR Band n77 C-Band - 50MHz π/2 BPSK - Full RB - Ant6)

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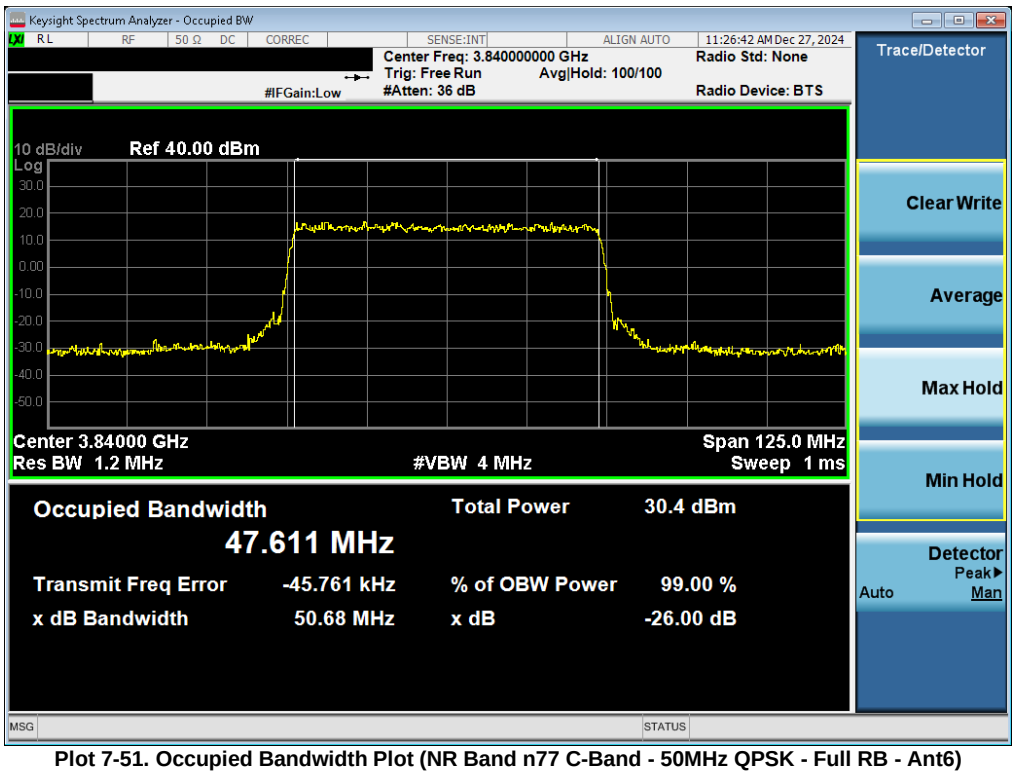
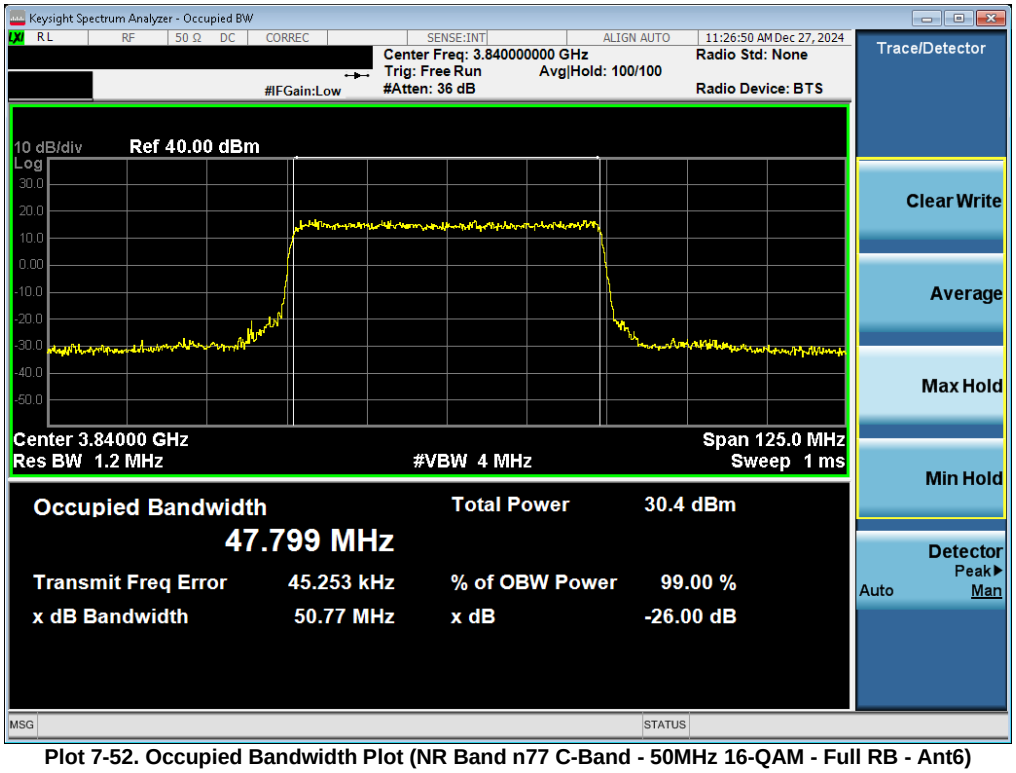


Plot 7-51. Occupied Bandwidth Plot (NR Band n77 C-Band - 50MHz QPSK - Full RB - Ant6)



Plot 7-52. Occupied Bandwidth Plot (NR Band n77 C-Band - 50MHz 16-QAM - Full RB - Ant6)

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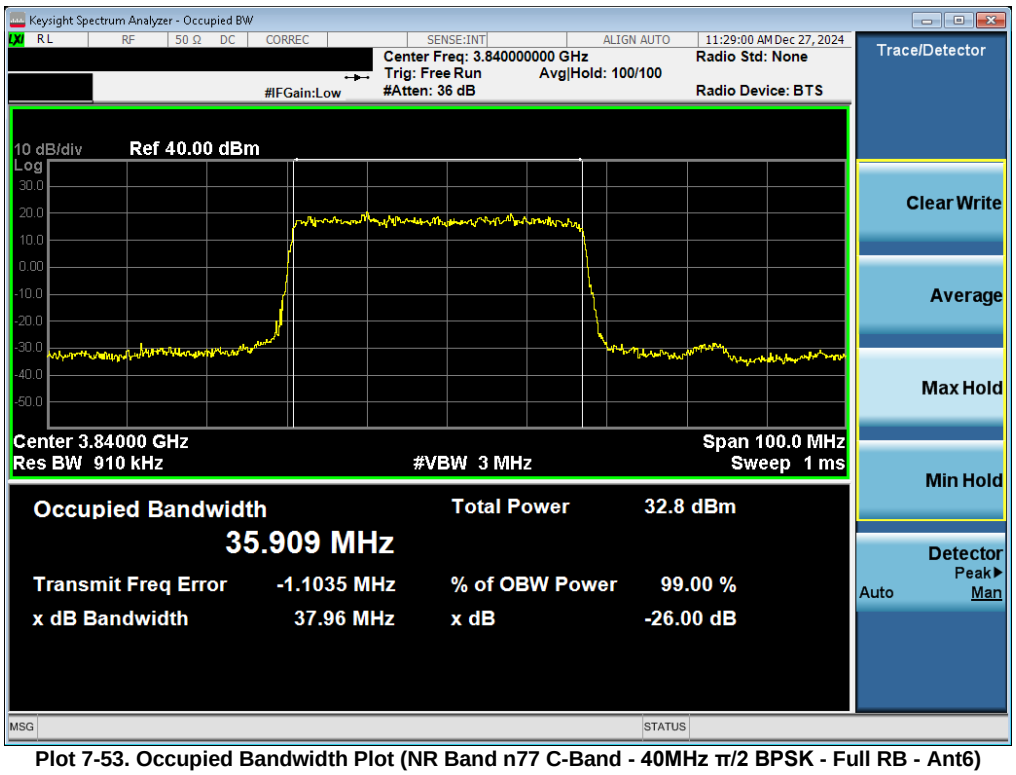
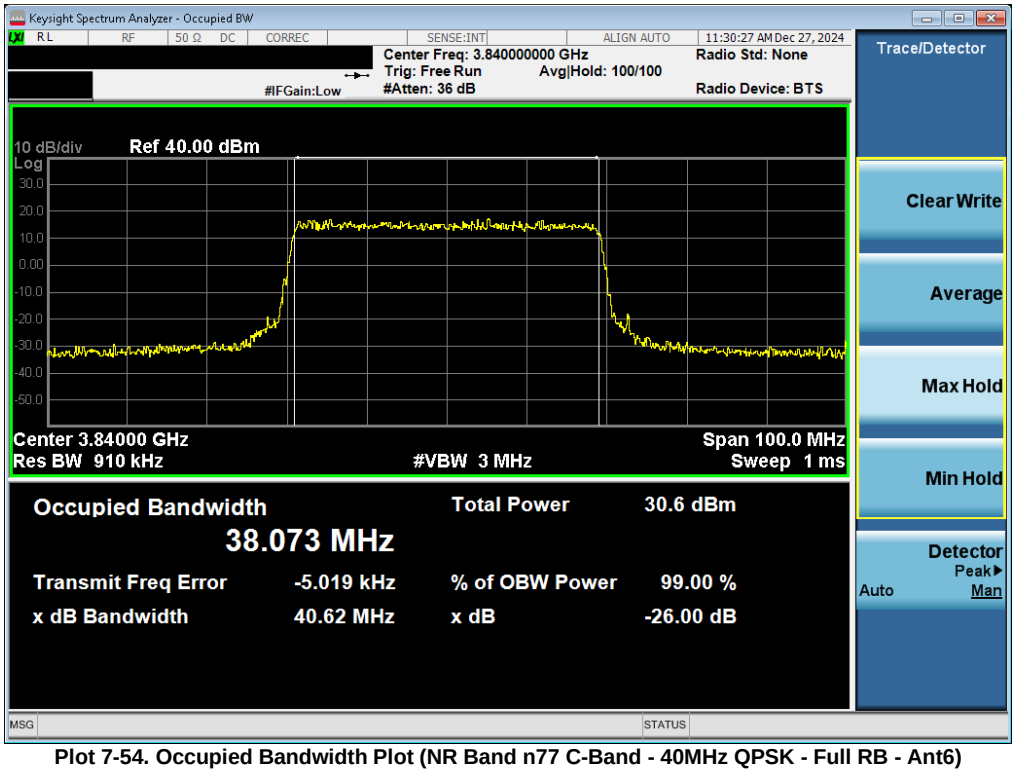


Plot 7-53. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz π/2 BPSK - Full RB - Ant6)



Plot 7-54. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz QPSK - Full RB - Ant6)

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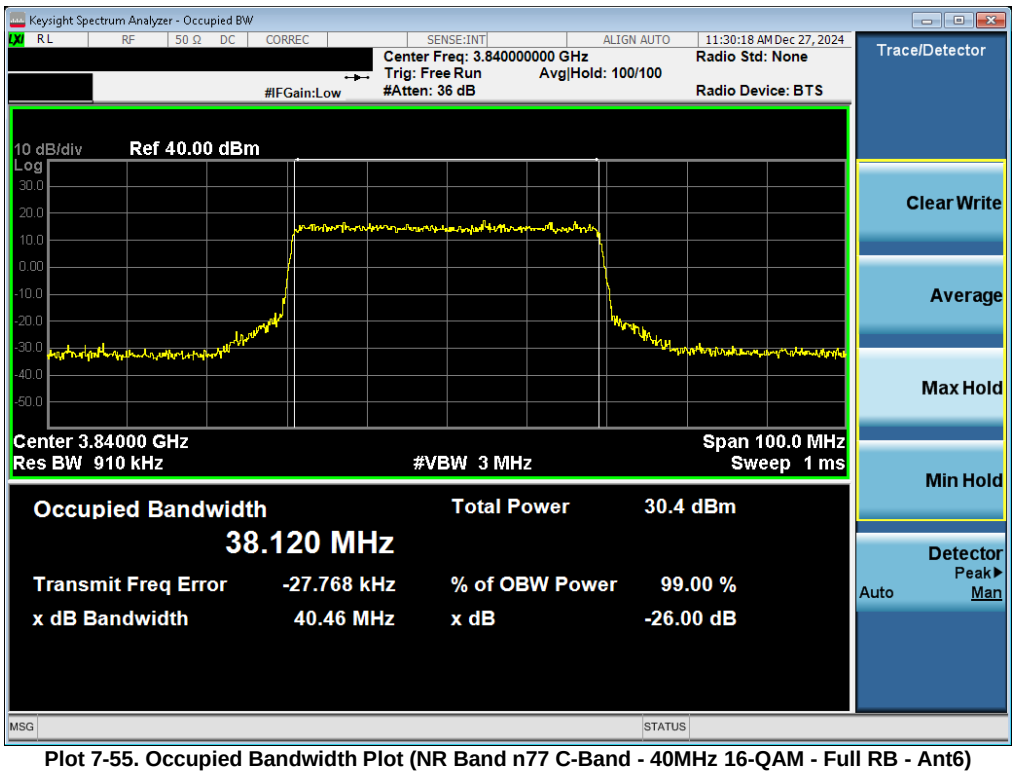
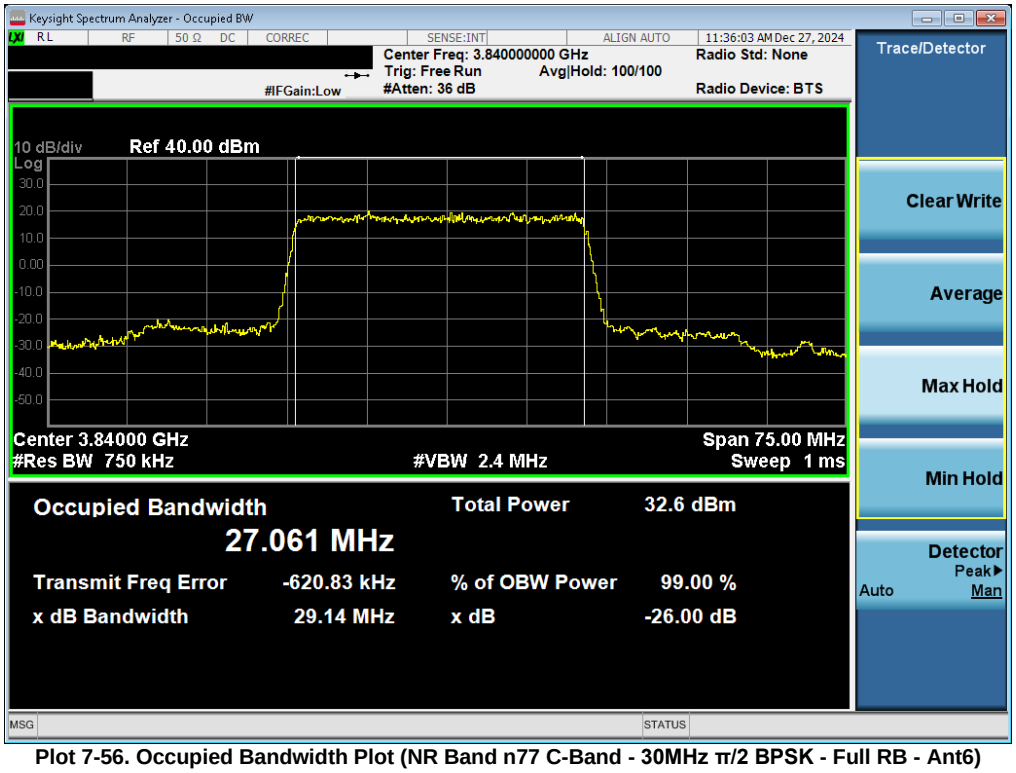


Plot 7-55. Occupied Bandwidth Plot (NR Band n77 C-Band - 40MHz 16-QAM - Full RB - Ant6)



Plot 7-56. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz π/2 BPSK - Full RB - Ant6)

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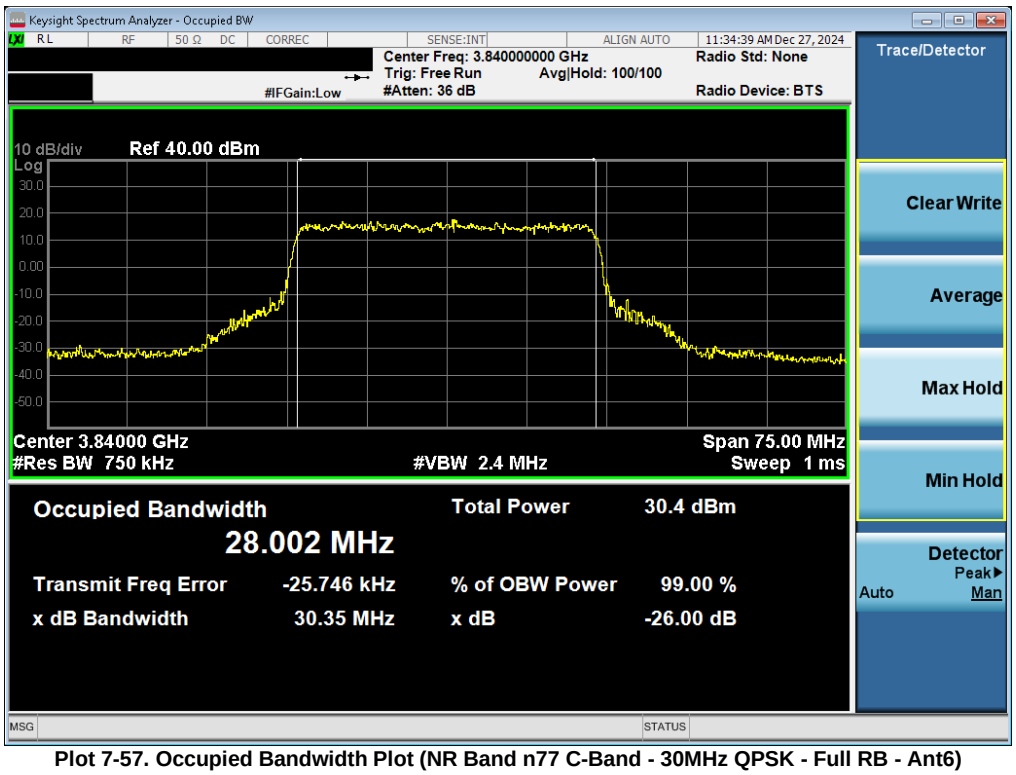
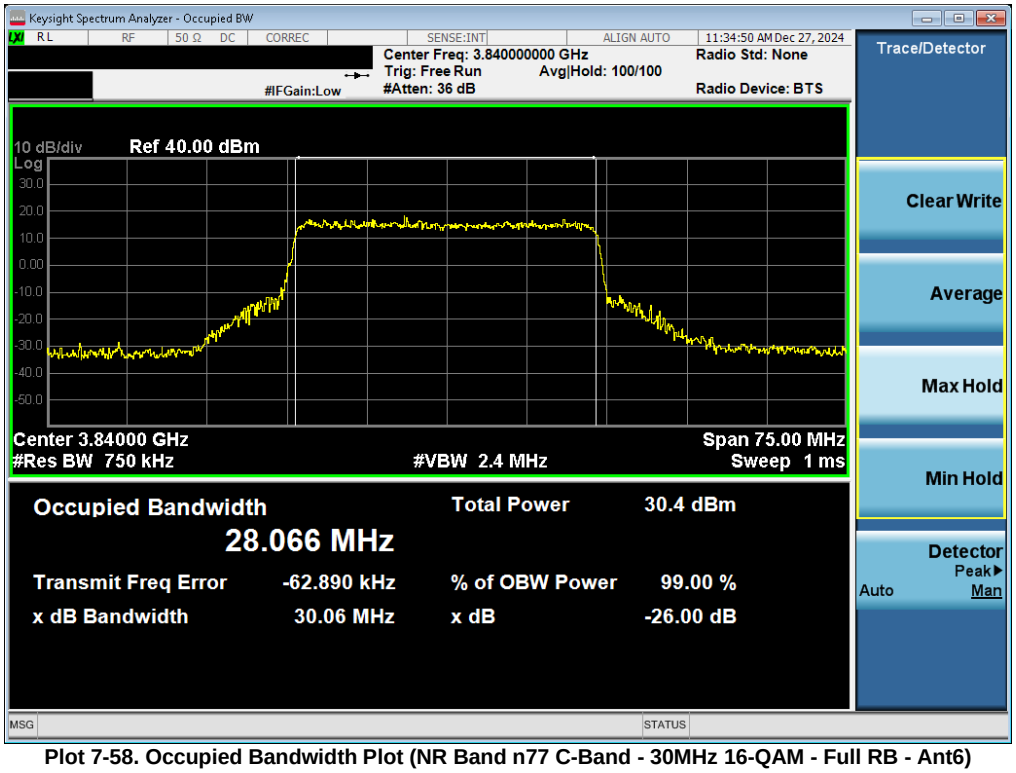


Plot 7-57. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz QPSK - Full RB - Ant6)



Plot 7-58. Occupied Bandwidth Plot (NR Band n77 C-Band - 30MHz 16-QAM - Full RB - Ant6)

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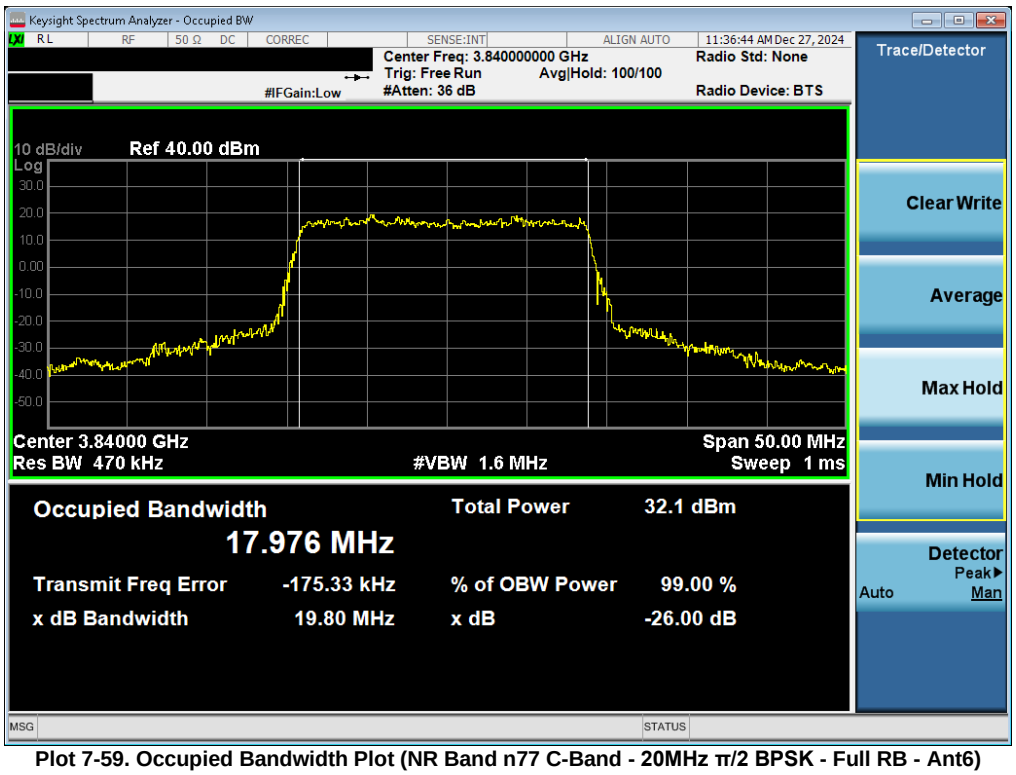
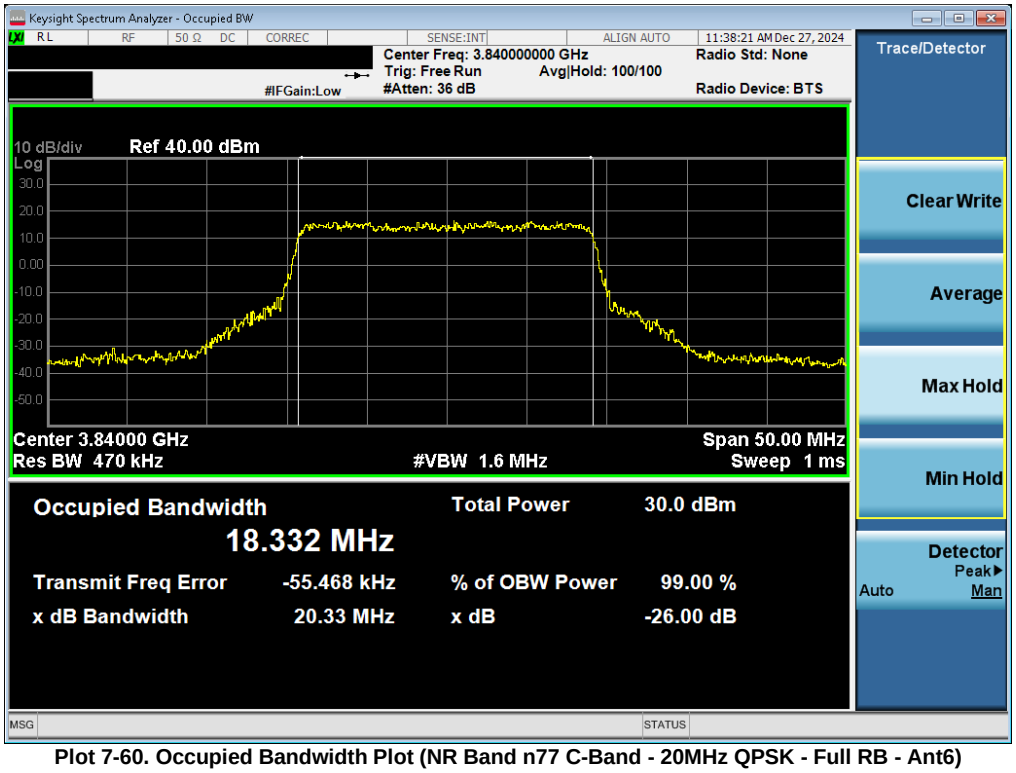


Plot 7-59. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz π/2 BPSK - Full RB - Ant6)



Plot 7-60. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz QPSK - Full RB - Ant6)

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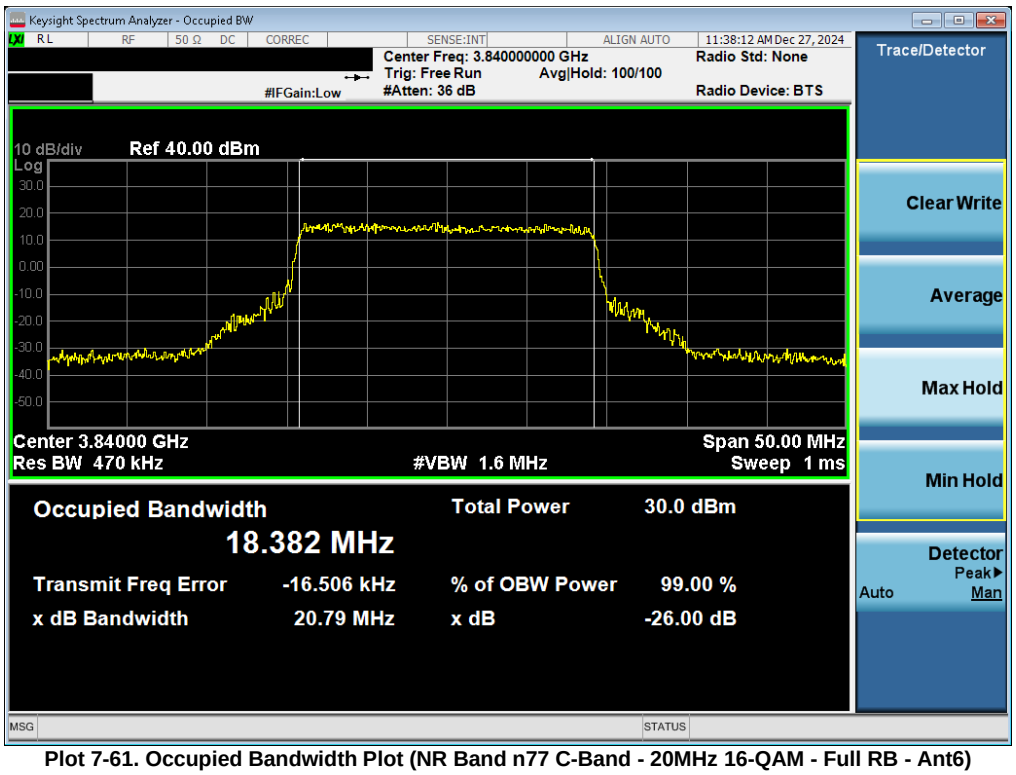
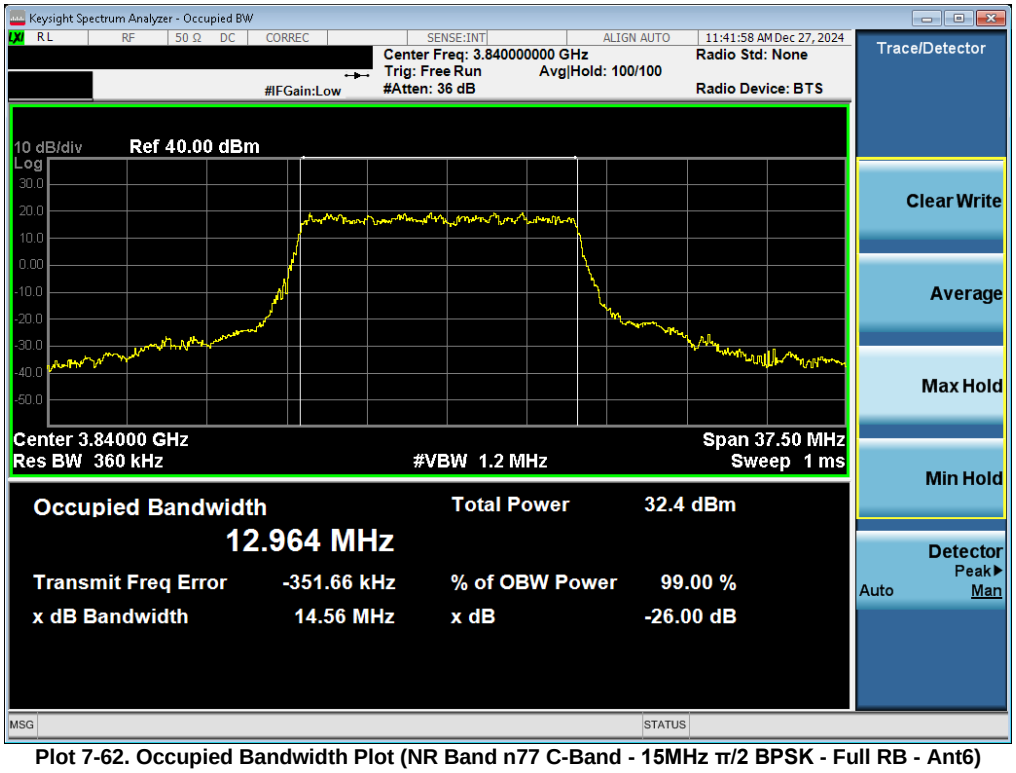


Plot 7-61. Occupied Bandwidth Plot (NR Band n77 C-Band - 20MHz 16-QAM - Full RB - Ant6)



Plot 7-62. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz π/2 BPSK - Full RB - Ant6)

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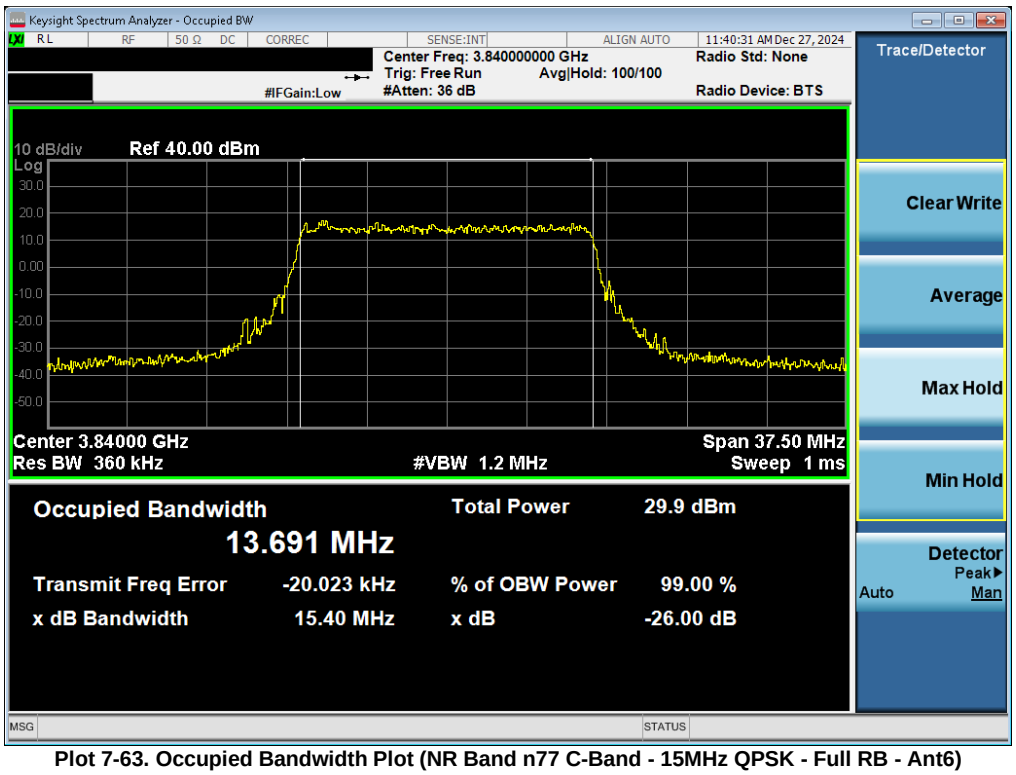
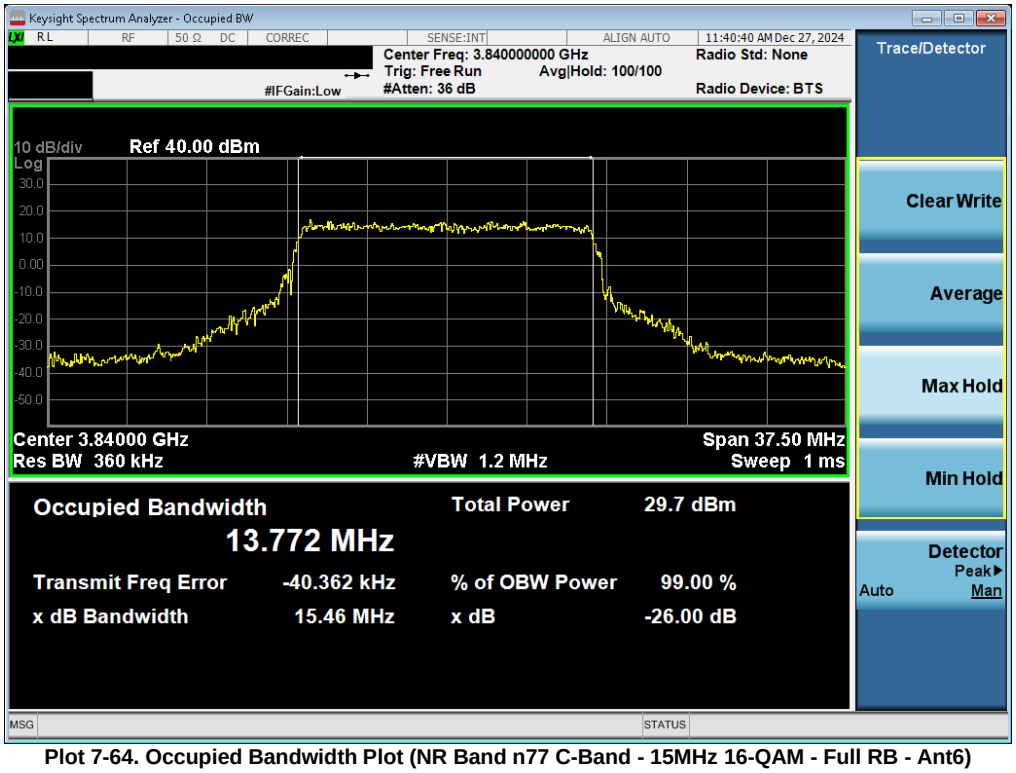


Plot 7-63. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz QPSK - Full RB - Ant6)



Plot 7-64. Occupied Bandwidth Plot (NR Band n77 C-Band - 15MHz 16-QAM - Full RB - Ant6)

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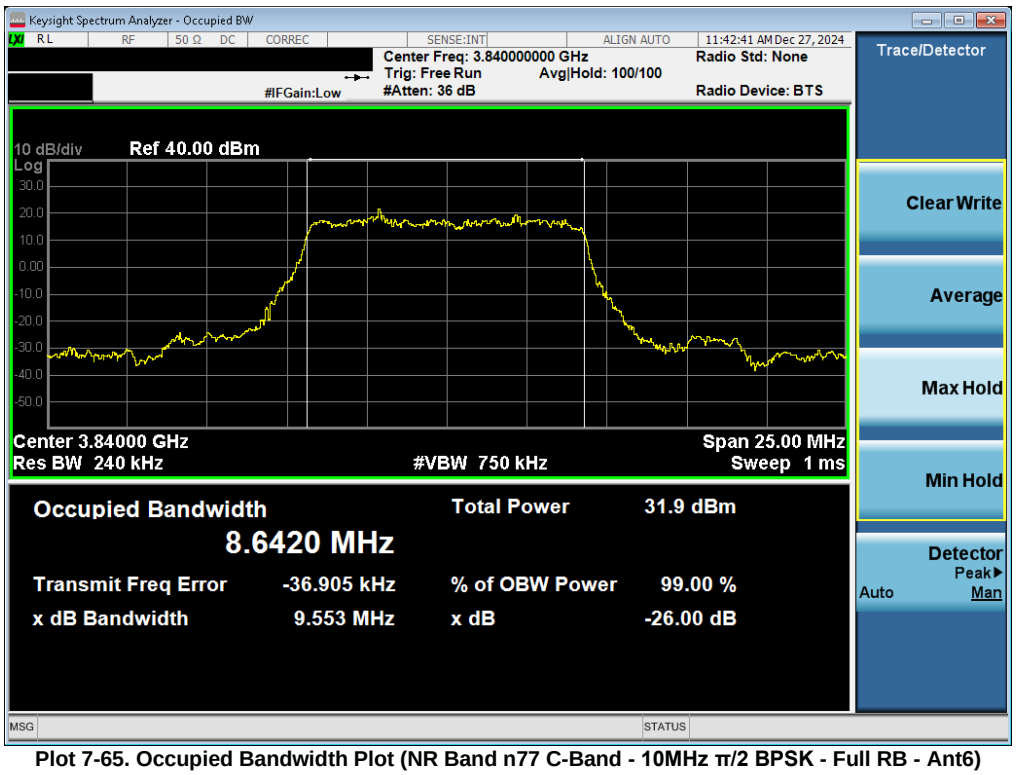
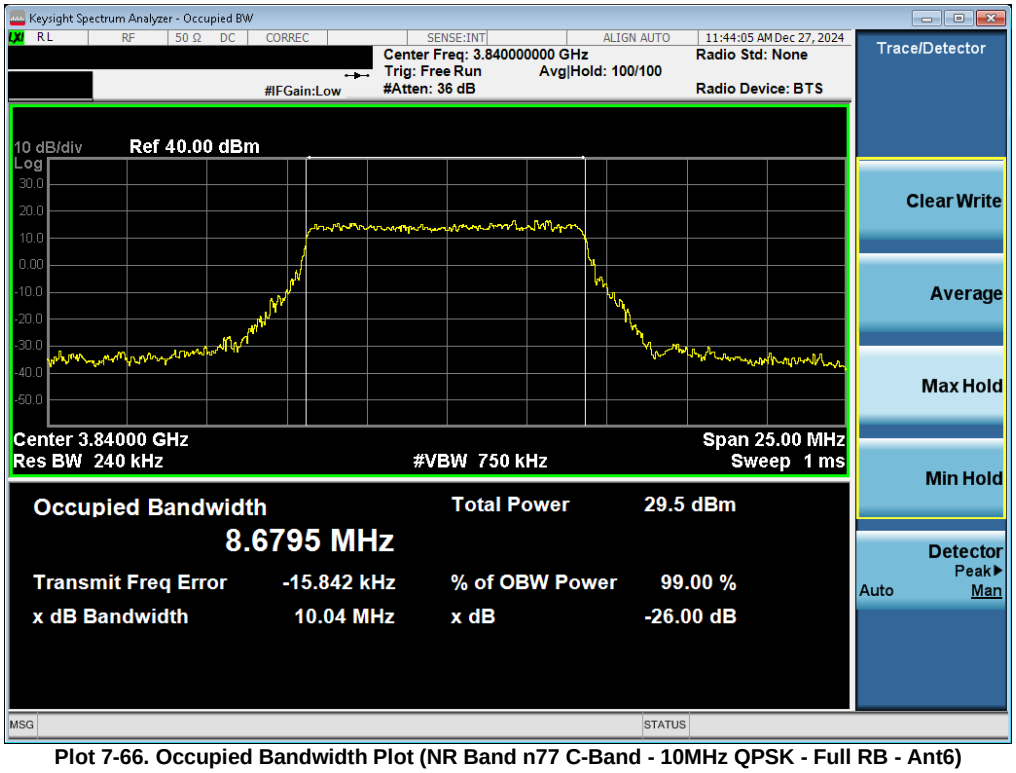


Plot 7-65. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz π/2 BPSK - Full RB - Ant6)



Plot 7-66. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz QPSK - Full RB - Ant6)

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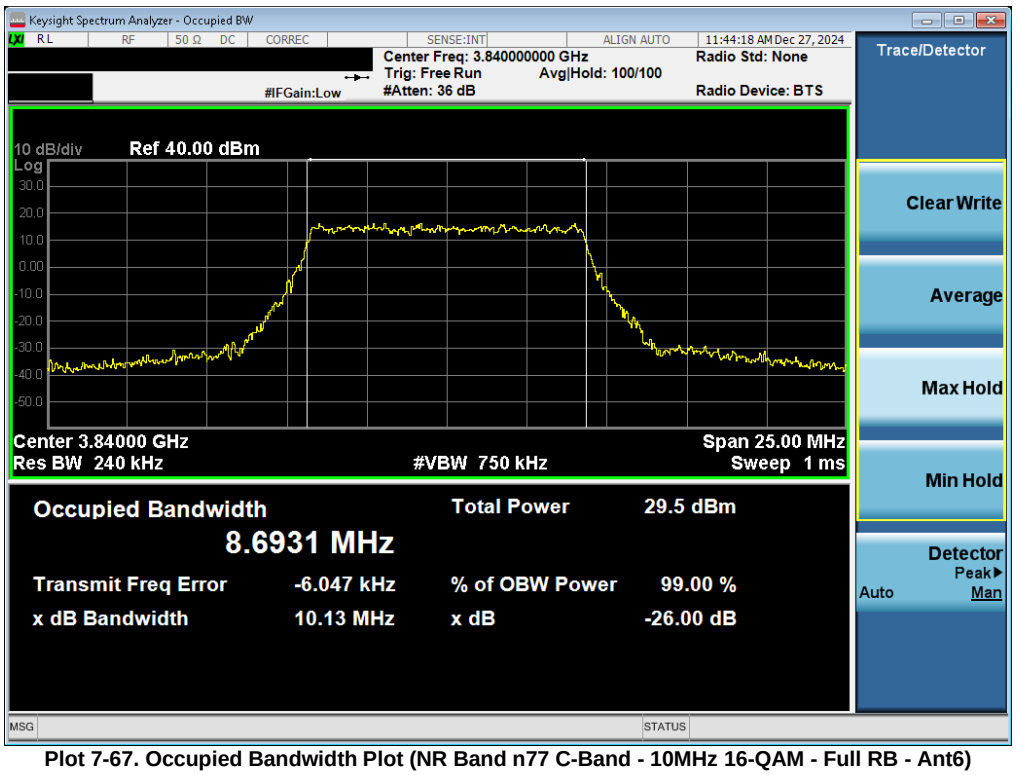

Plot 7-67. Occupied Bandwidth Plot (NR Band n77 C-Band - 10MHz 16-QAM - Full RB - Ant6)

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Mode	Bandwidth	Modulation	OBW [MHz]
NR-n77PC2-R1	100MHz	π/2 BPSK	96.91
		QPSK	96.72
		16QAM	96.85
	90MHz	π/2 BPSK	87.04
		QPSK	87.10
		16QAM	87.53
	80MHz	π/2 BPSK	77.64
		QPSK	77.63
		16QAM	77.38
	70MHz	π/2 BPSK	64.74
		QPSK	64.70
		16QAM	64.74
	60MHz	π/2 BPSK	58.14
		QPSK	58.22
		16QAM	58.29
	50MHz	π/2 BPSK	46.03
		QPSK	46.01
		16QAM	45.99
	40MHz	π/2 BPSK	35.83
		QPSK	35.93
		16QAM	35.92
	30MHz	π/2 BPSK	27.05
		QPSK	27.02
		16QAM	26.96
	20MHz	π/2 BPSK	18.00
		QPSK	18.04
		16QAM	17.99
	15MHz	π/2 BPSK	13.00
		QPSK	13.02
		16QAM	12.99
	10MHz	π/2 BPSK	8.68
		QPSK	8.70
		16QAM	8.65

Table 7-14. Occupied Bandwidth Test Results – NR Band n77 DoD – Ant1

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Mode	Bandwidth	Modulation	OBW [MHz]
NR-n77PC2	100MHz	π/2 BPSK	96.69
		QPSK	96.91
		16QAM	96.80
	90MHz	π/2 BPSK	87.08
		QPSK	87.25
		16QAM	87.29
	80MHz	π/2 BPSK	77.42
		QPSK	77.41
		16QAM	77.42
	70MHz	π/2 BPSK	64.86
		QPSK	64.65
		16QAM	64.63
	60MHz	π/2 BPSK	58.11
		QPSK	58.15
		16QAM	58.02
	50MHz	π/2 BPSK	46.02
		QPSK	45.99
		16QAM	46.00
	40MHz	π/2 BPSK	35.85
		QPSK	35.90
		16QAM	35.84
	30MHz	π/2 BPSK	26.98
		QPSK	26.96
		16QAM	26.97
	20MHz	π/2 BPSK	18.12
		QPSK	18.04
		16QAM	17.97
	15MHz	π/2 BPSK	13.04
		QPSK	13.05
		16QAM	12.95
	10MHz	π/2 BPSK	8.68
		QPSK	8.67
		16QAM	8.72

Table 7-15. Occupied Bandwidth Test Results – NR Band n77 C-Band – Ant1

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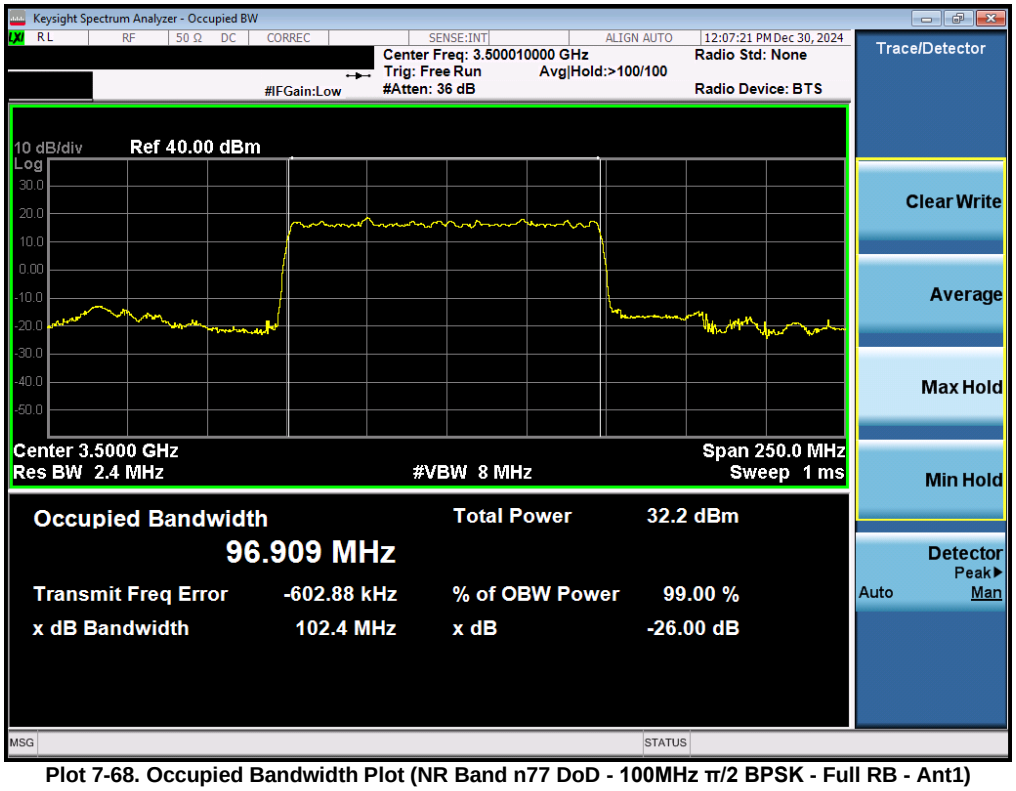
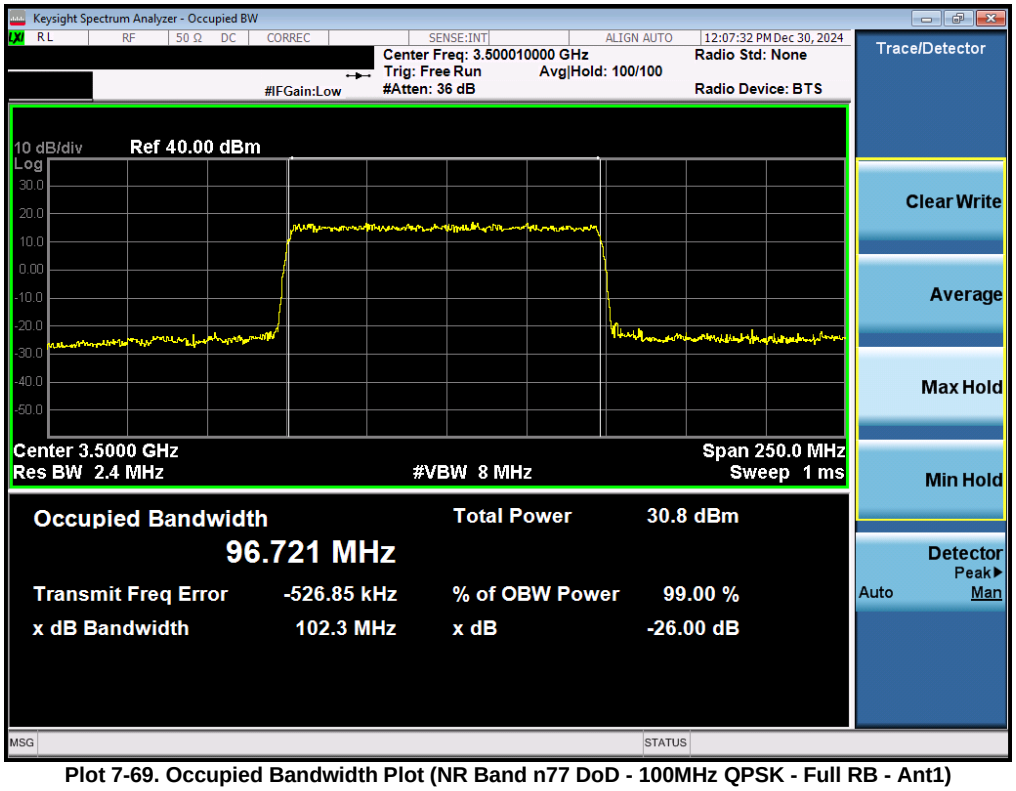
NR Band n77 DoD – Ant1



Plot 7-68. Occupied Bandwidth Plot (NR Band n77 DoD - 100MHz π/2 BPSK - Full RB - Ant1)



Plot 7-69. Occupied Bandwidth Plot (NR Band n77 DoD - 100MHz QPSK - Full RB - Ant1)

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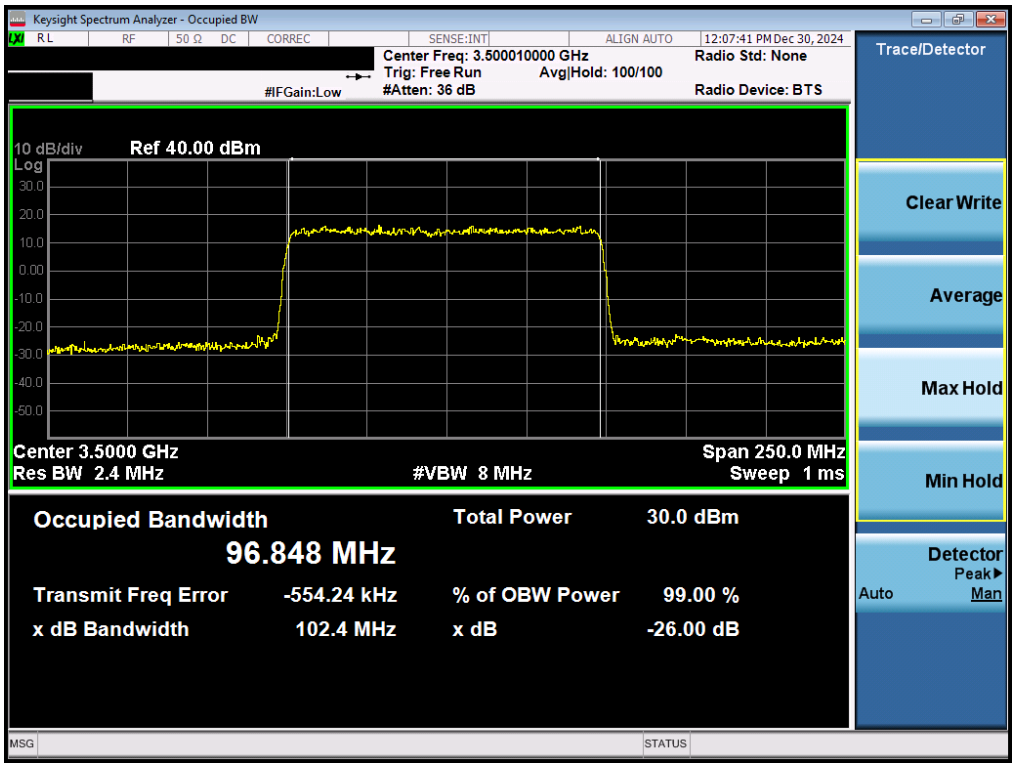
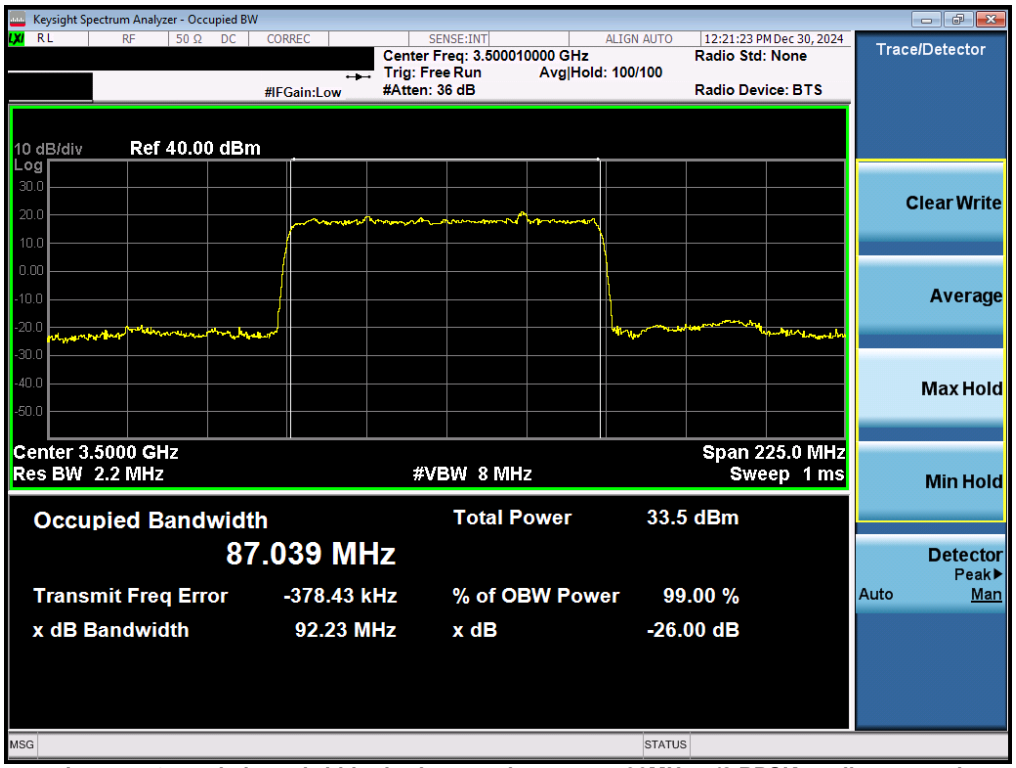


Plot 7-70. Occupied Bandwidth Plot (NR Band n77 DoD - 100MHz 16-QAM - Full RB - Ant1)



Plot 7-71. Occupied Bandwidth Plot (NR Band n77 DoD - 90MHz π/2 BPSK - Full RB - Ant1)

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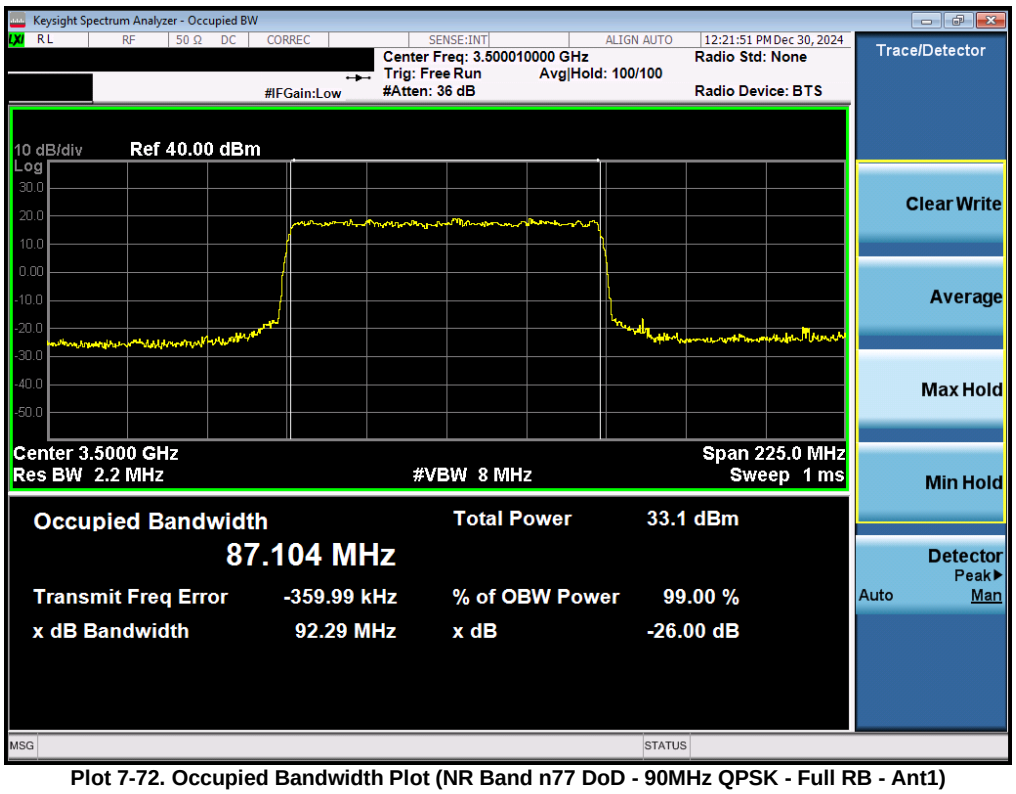
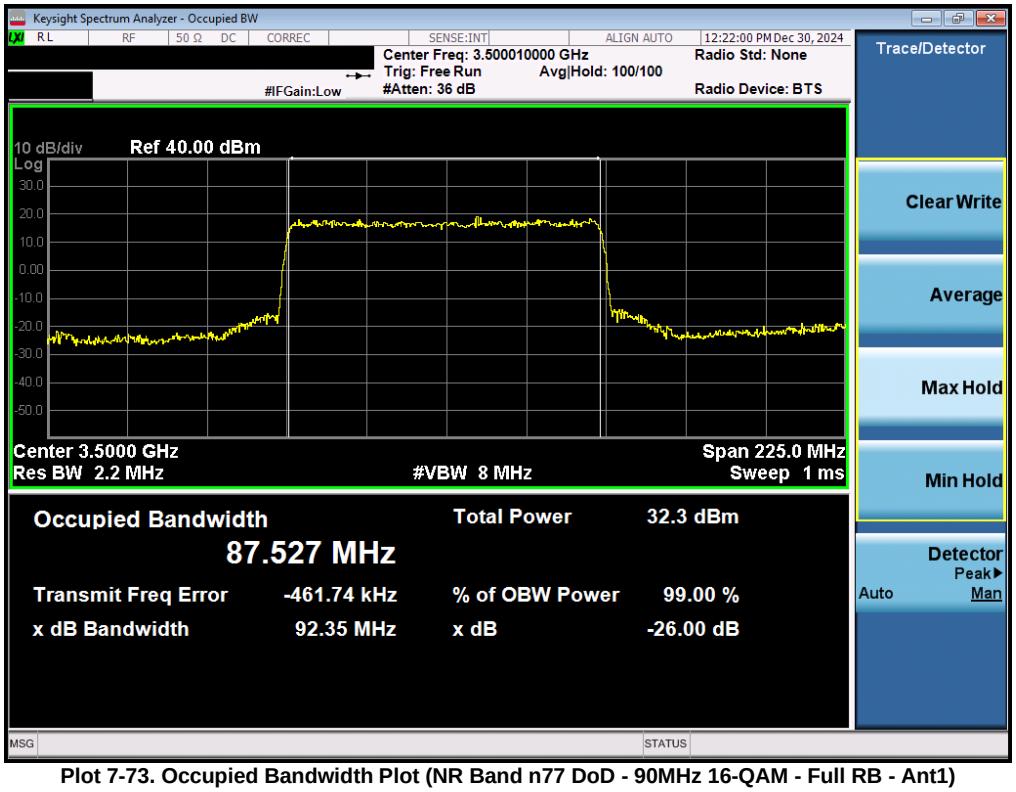


Plot 7-72. Occupied Bandwidth Plot (NR Band n77 DoD - 90MHz QPSK - Full RB - Ant1)



Plot 7-73. Occupied Bandwidth Plot (NR Band n77 DoD - 90MHz 16-QAM - Full RB - Ant1)

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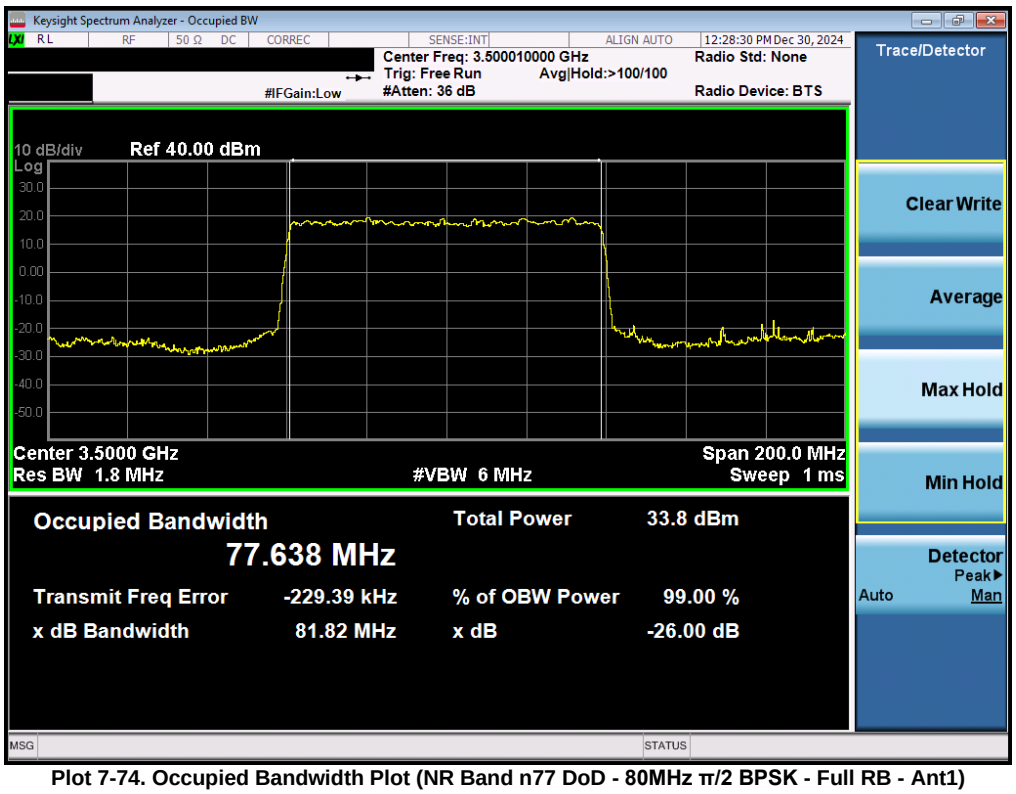
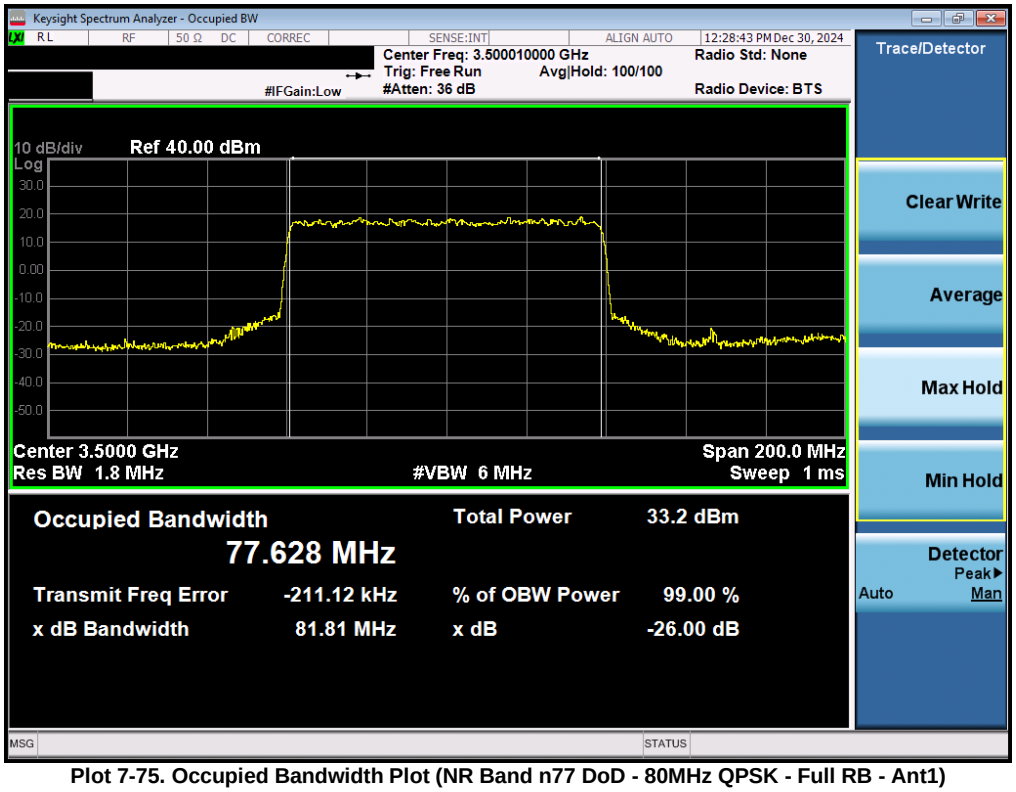


Plot 7-74. Occupied Bandwidth Plot (NR Band n77 DoD - 80MHz π/2 BPSK - Full RB - Ant1)



Plot 7-75. Occupied Bandwidth Plot (NR Band n77 DoD - 80MHz QPSK - Full RB - Ant1)

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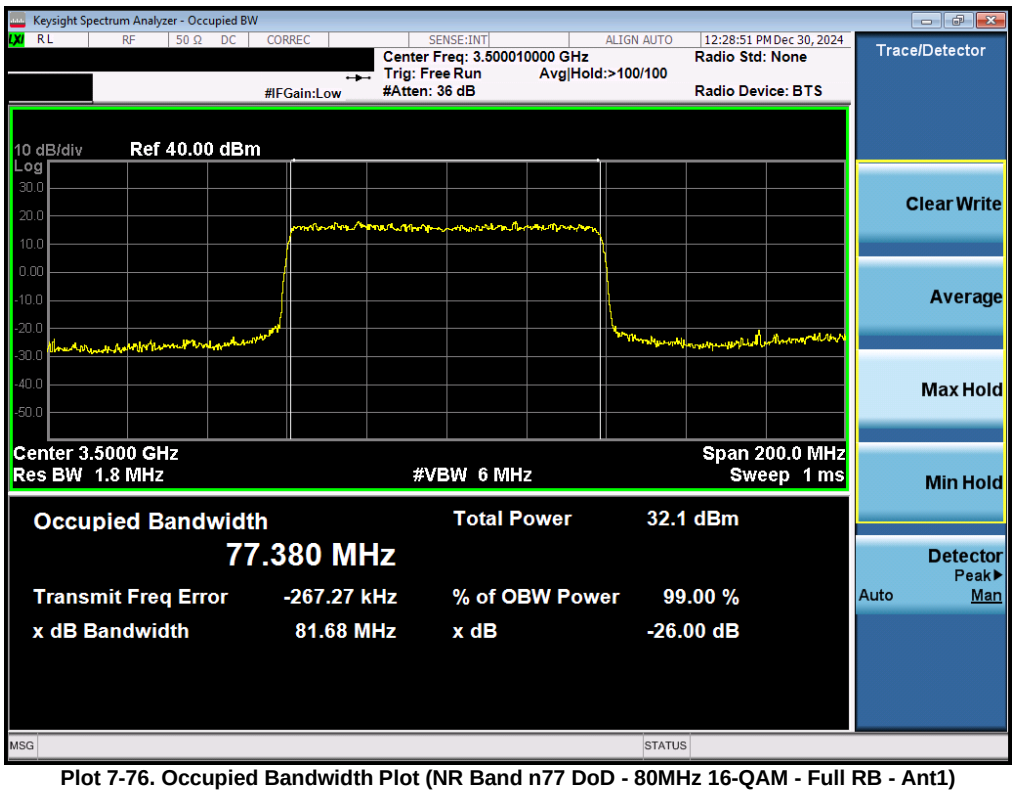
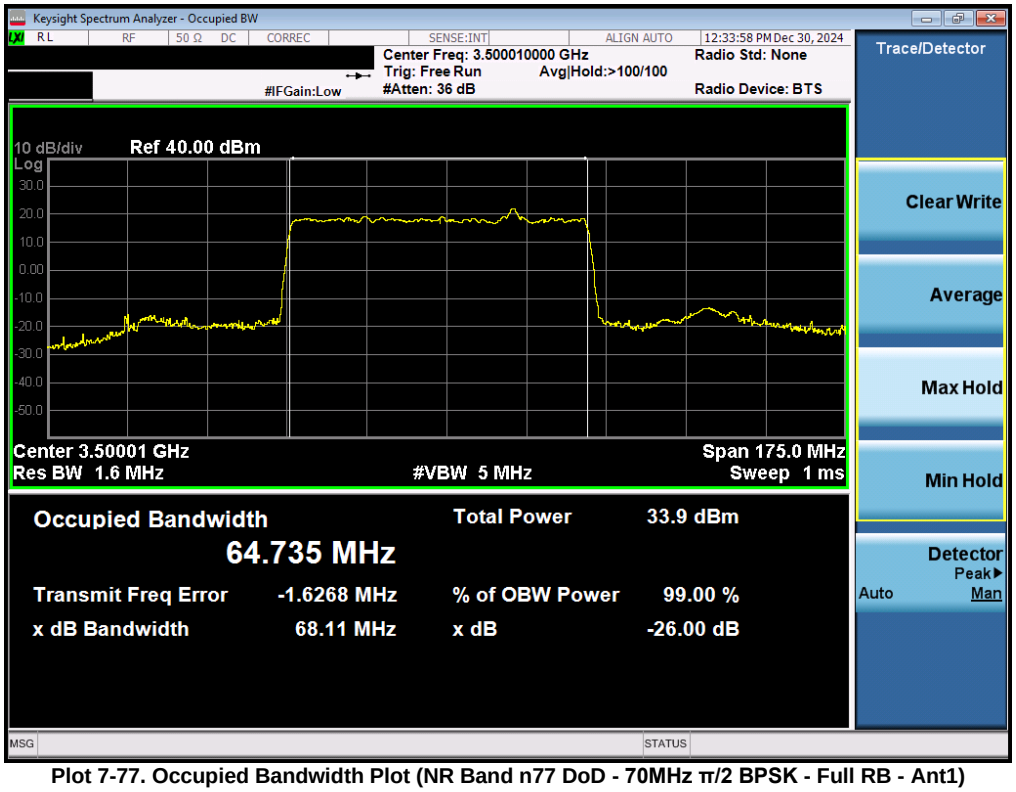


Plot 7-76. Occupied Bandwidth Plot (NR Band n77 DoD - 80MHz 16-QAM - Full RB - Ant1)



Plot 7-77. Occupied Bandwidth Plot (NR Band n77 DoD - 70MHz π/2 BPSK - Full RB - Ant1)

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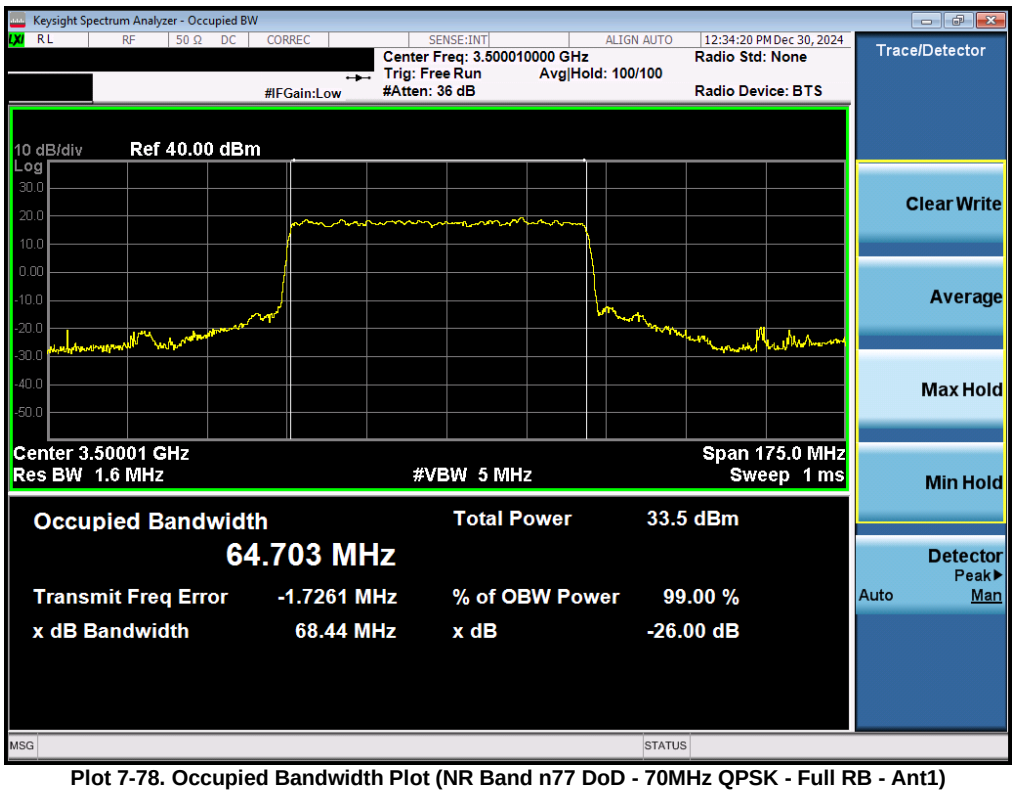
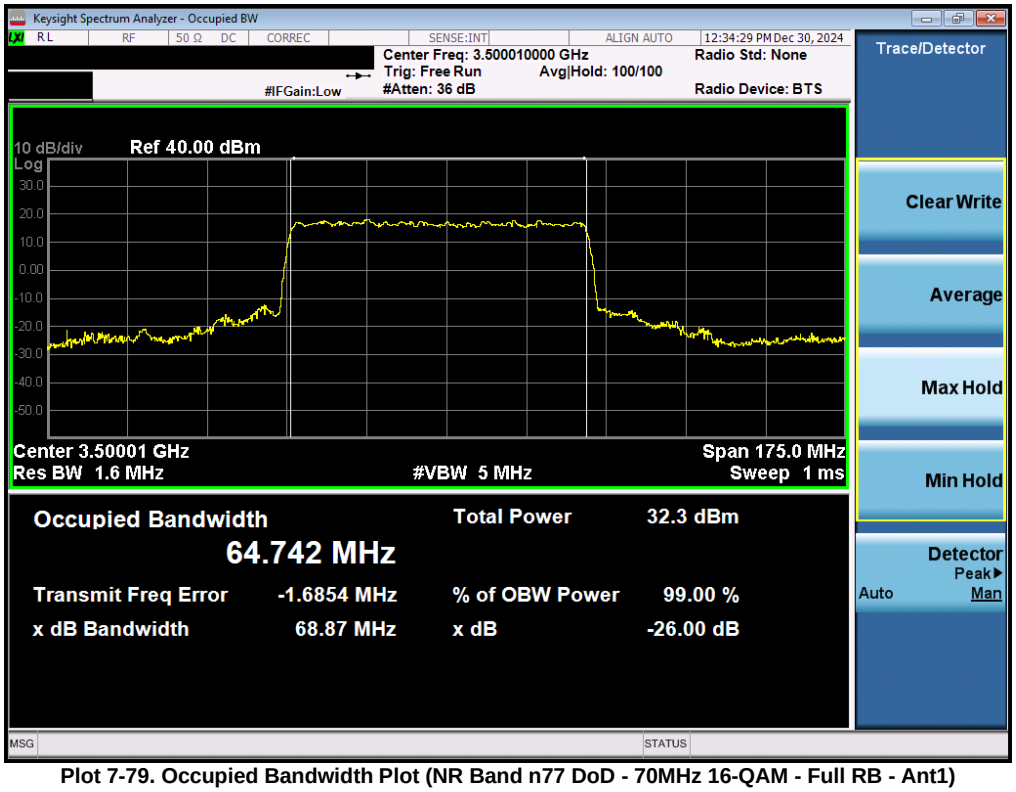


Plot 7-78. Occupied Bandwidth Plot (NR Band n77 DoD - 70MHz QPSK - Full RB - Ant1)



Plot 7-79. Occupied Bandwidth Plot (NR Band n77 DoD - 70MHz 16-QAM - Full RB - Ant1)

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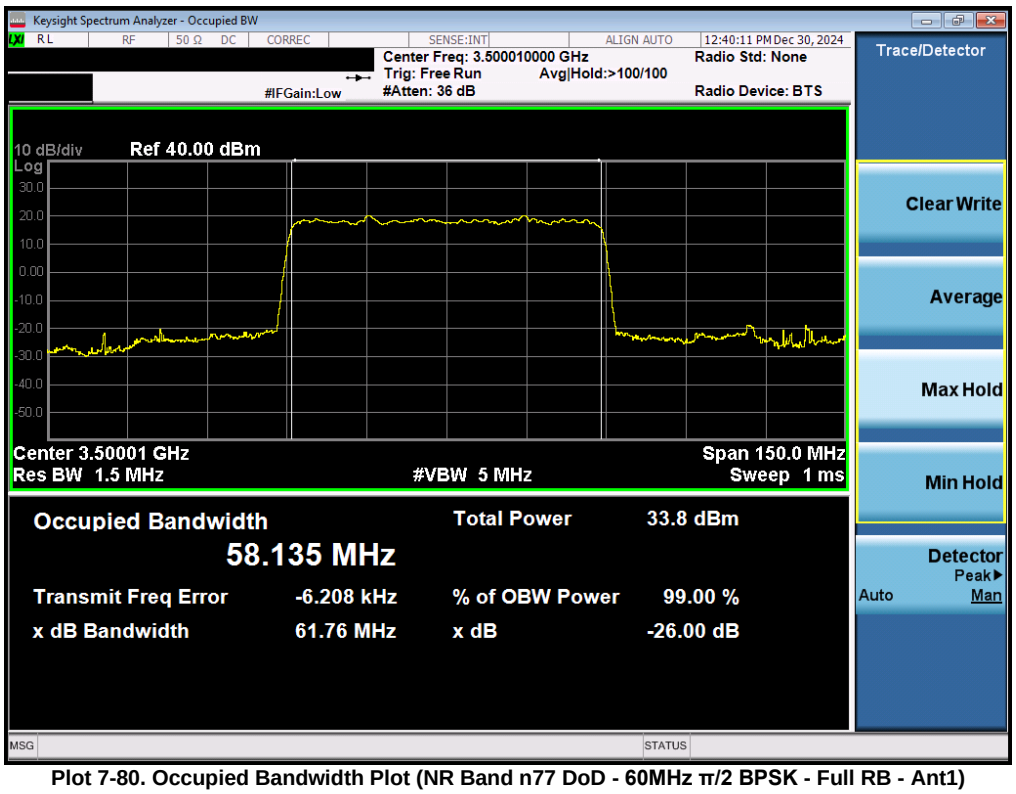
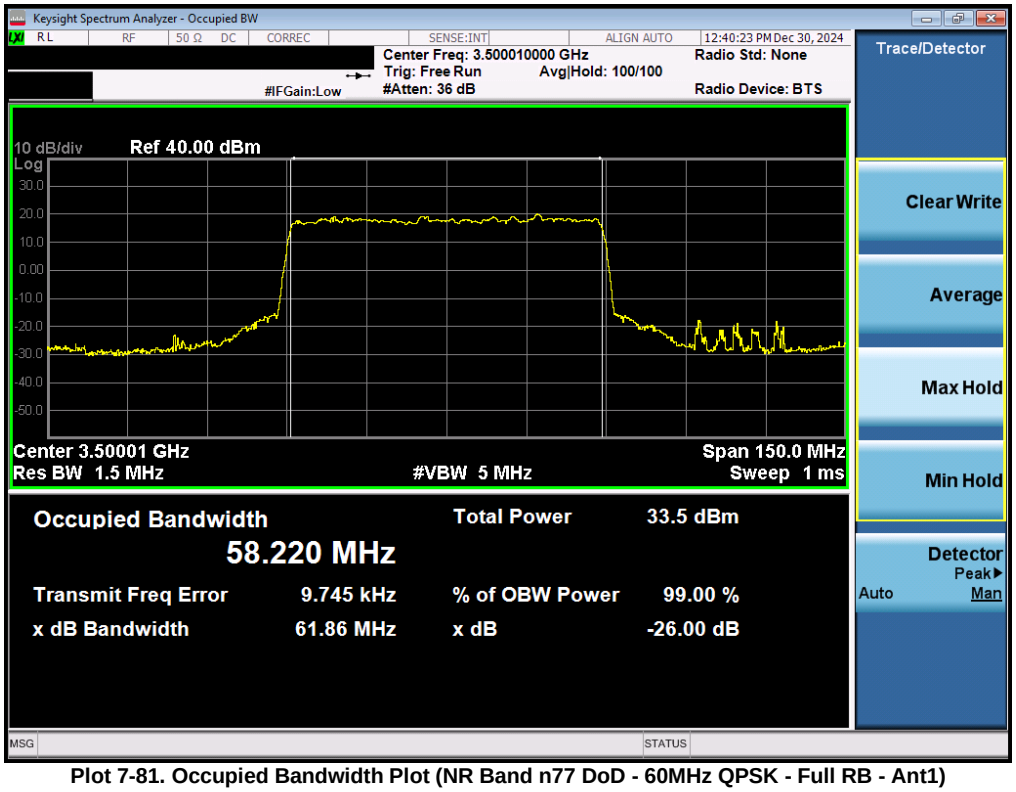


Plot 7-80. Occupied Bandwidth Plot (NR Band n77 DoD - 60MHz π/2 BPSK - Full RB - Ant1)



Plot 7-81. Occupied Bandwidth Plot (NR Band n77 DoD - 60MHz QPSK - Full RB - Ant1)

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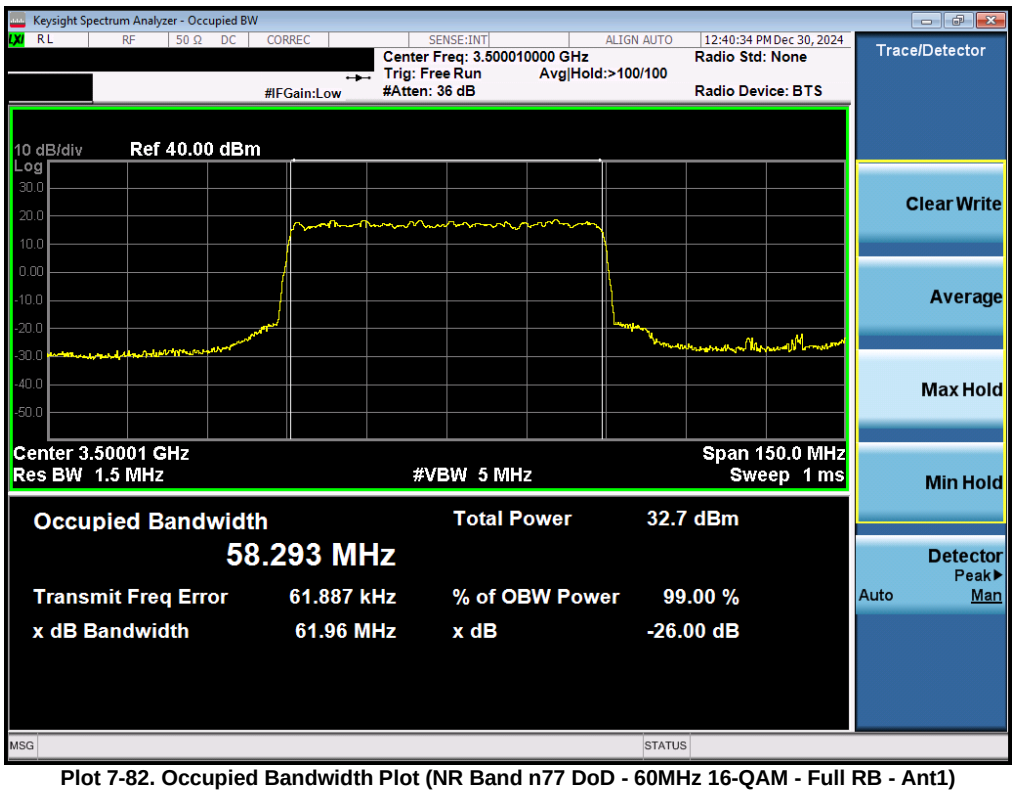
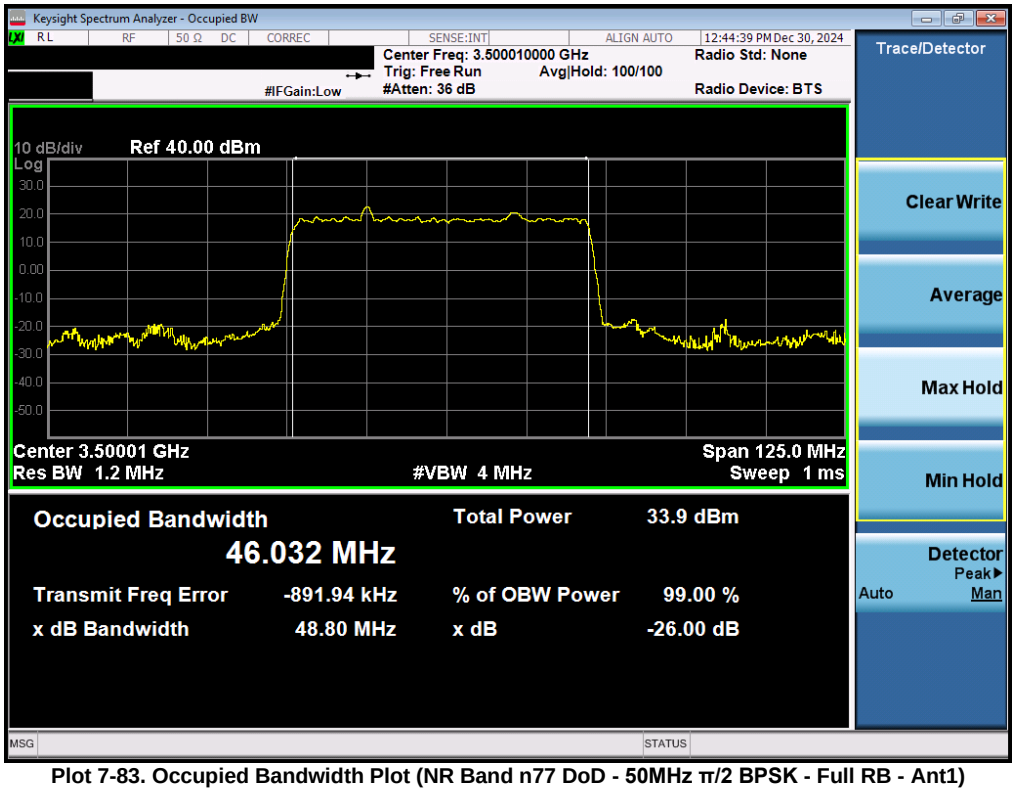


Plot 7-82. Occupied Bandwidth Plot (NR Band n77 DoD - 60MHz 16-QAM - Full RB - Ant1)



Plot 7-83. Occupied Bandwidth Plot (NR Band n77 DoD - 50MHz π/2 BPSK - Full RB - Ant1)

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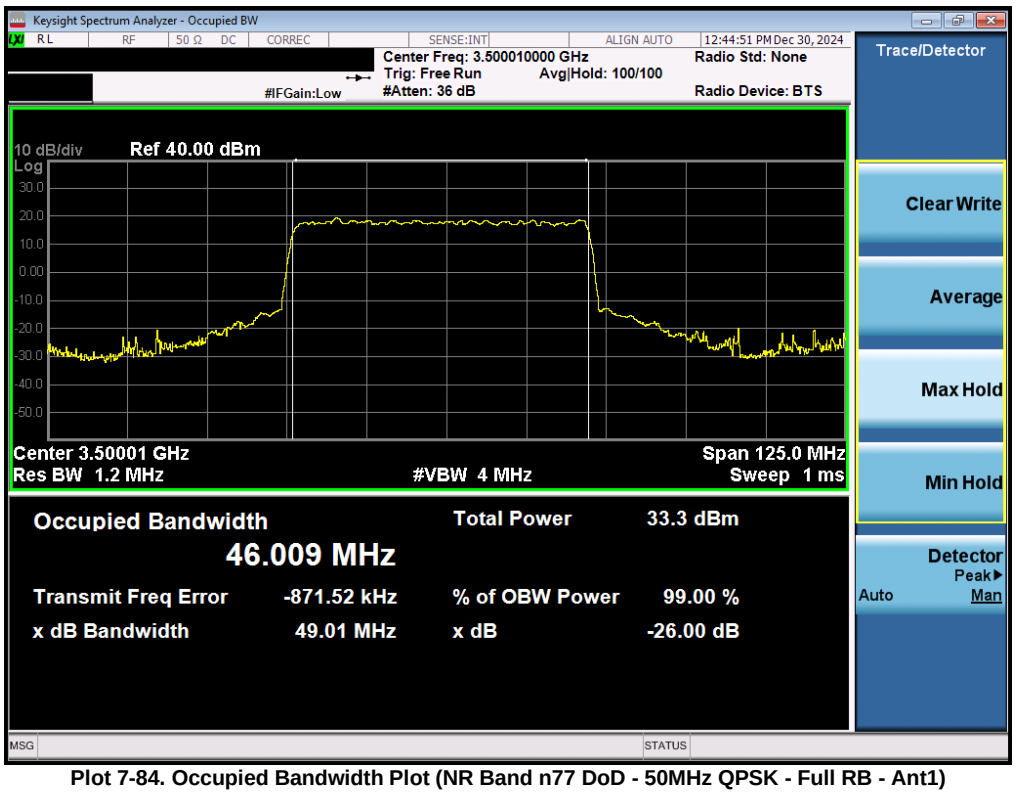
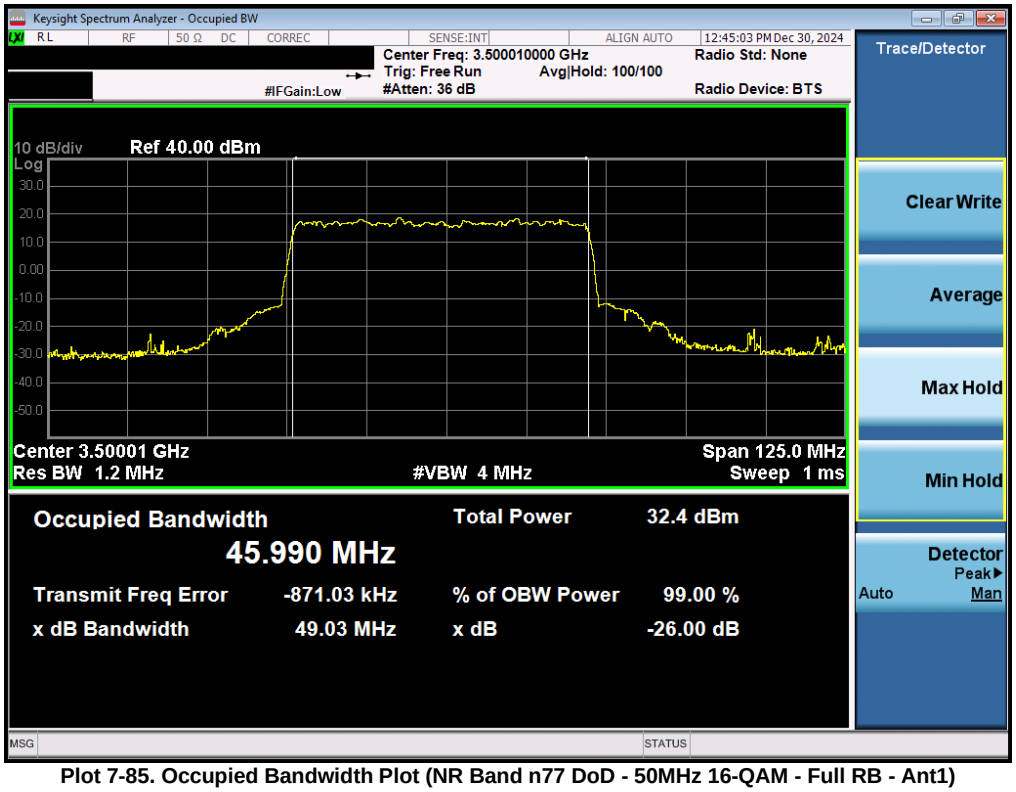


Plot 7-84. Occupied Bandwidth Plot (NR Band n77 DoD - 50MHz QPSK - Full RB - Ant1)



Plot 7-85. Occupied Bandwidth Plot (NR Band n77 DoD - 50MHz 16-QAM - Full RB - Ant1)

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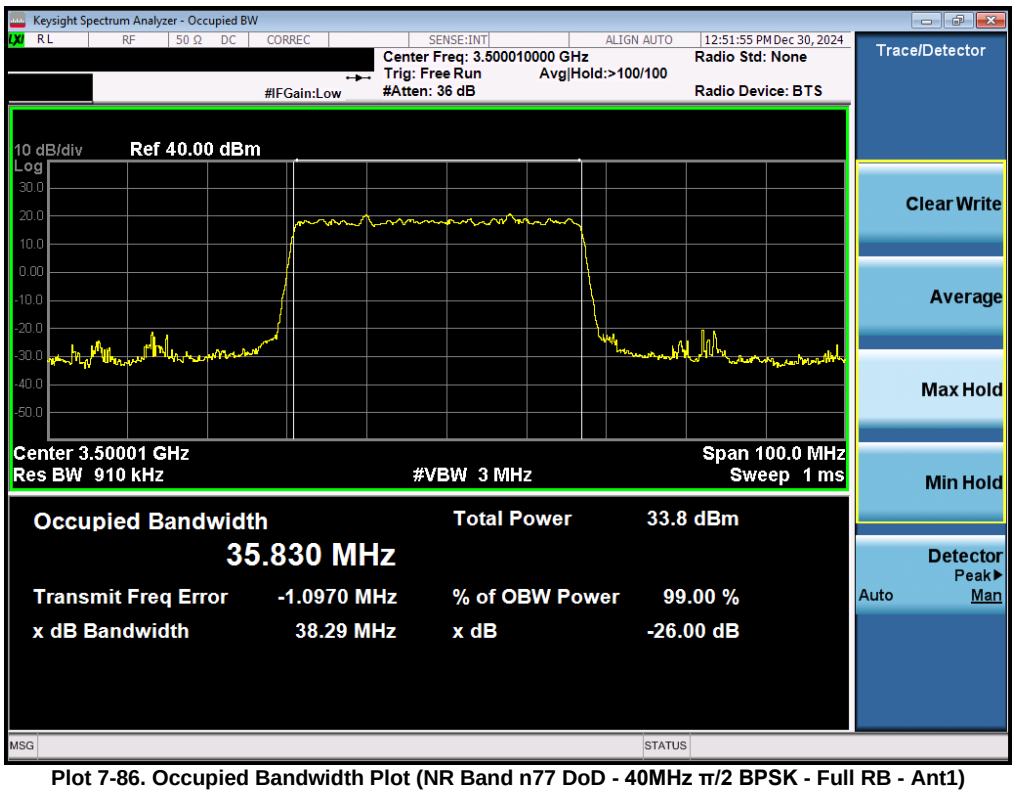
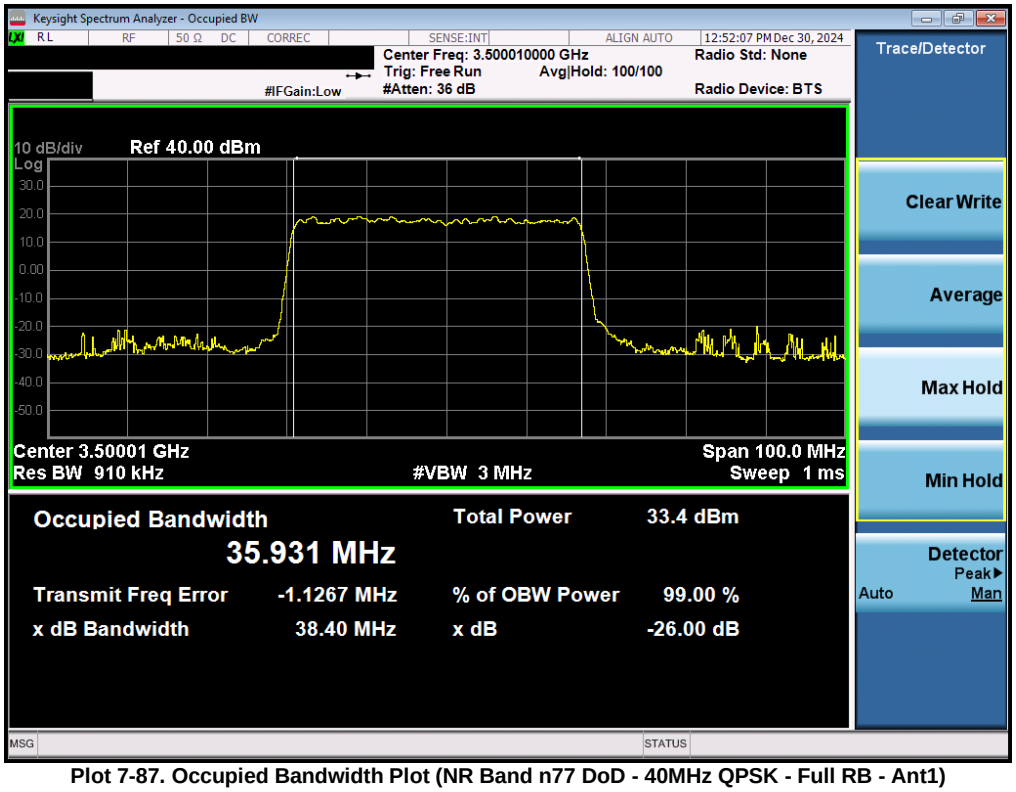


Plot 7-86. Occupied Bandwidth Plot (NR Band n77 DoD - 40MHz π/2 BPSK - Full RB - Ant1)



Plot 7-87. Occupied Bandwidth Plot (NR Band n77 DoD - 40MHz QPSK - Full RB - Ant1)

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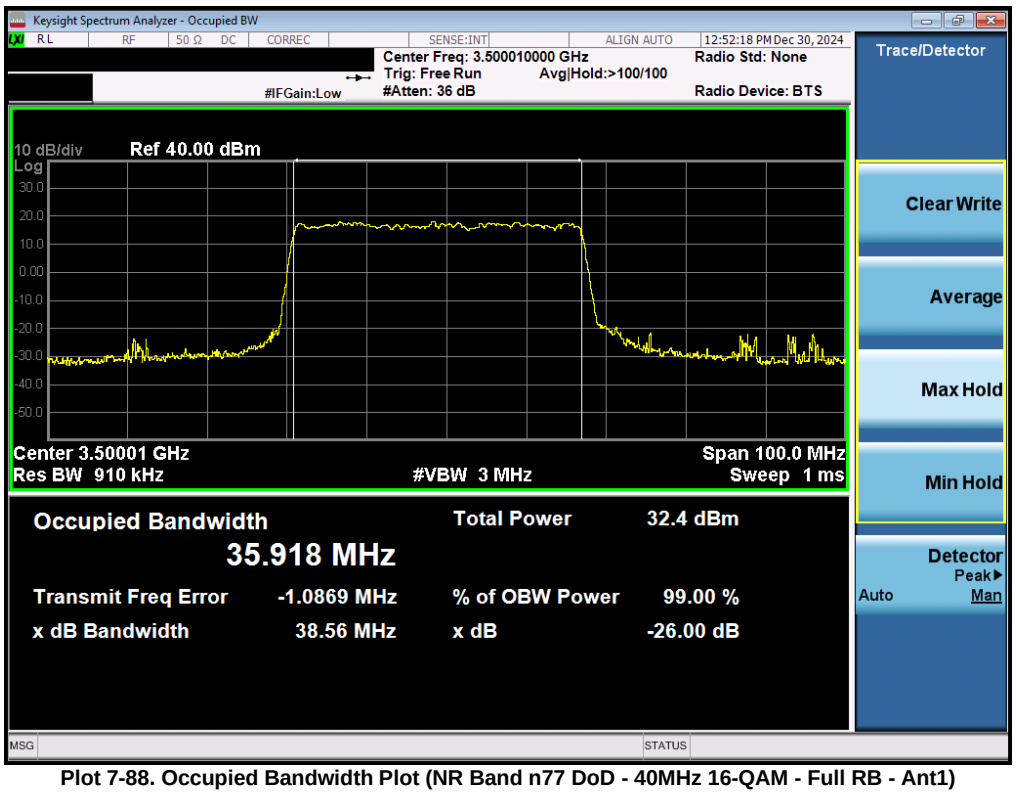
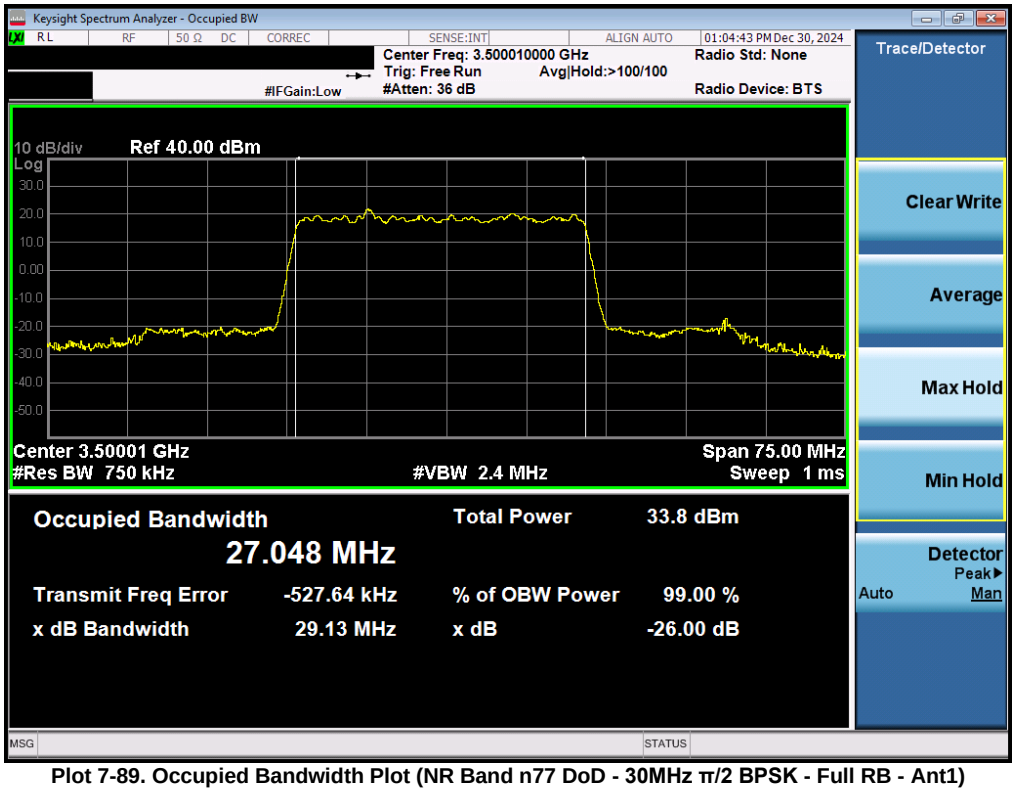


Plot 7-88. Occupied Bandwidth Plot (NR Band n77 DoD - 40MHz 16-QAM - Full RB - Ant1)



Plot 7-89. Occupied Bandwidth Plot (NR Band n77 DoD - 30MHz π/2 BPSK - Full RB - Ant1)

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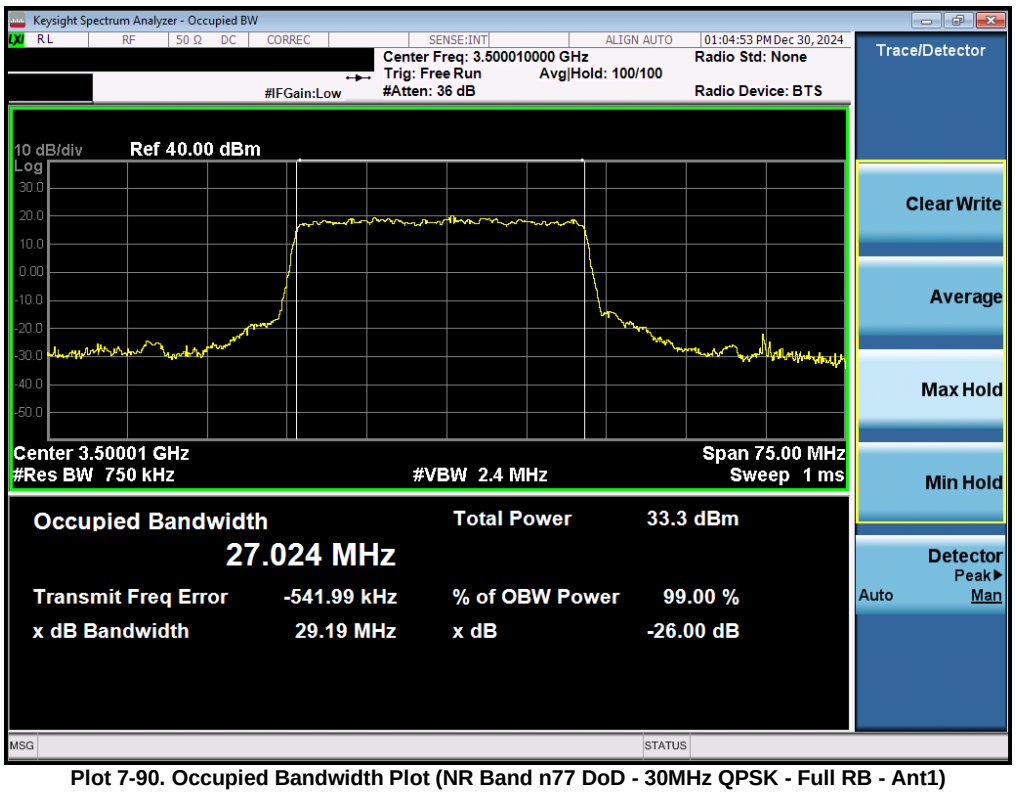
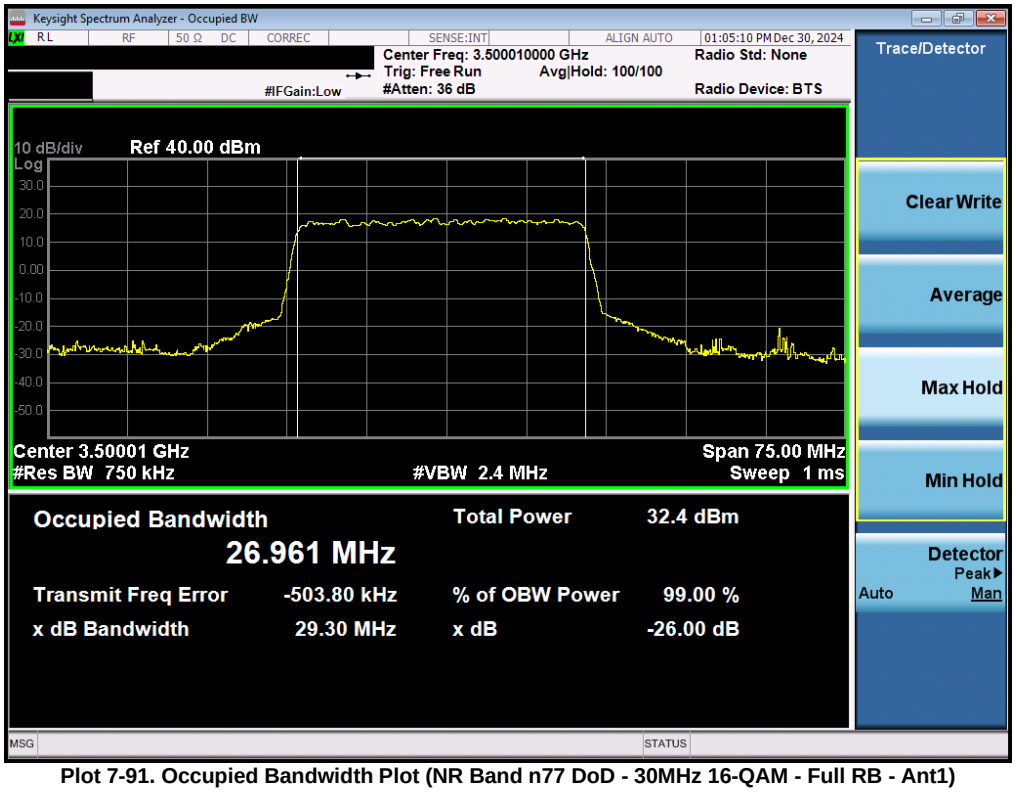


Plot 7-90. Occupied Bandwidth Plot (NR Band n77 DoD - 30MHz QPSK - Full RB - Ant1)



Plot 7-91. Occupied Bandwidth Plot (NR Band n77 DoD - 30MHz 16-QAM - Full RB - Ant1)

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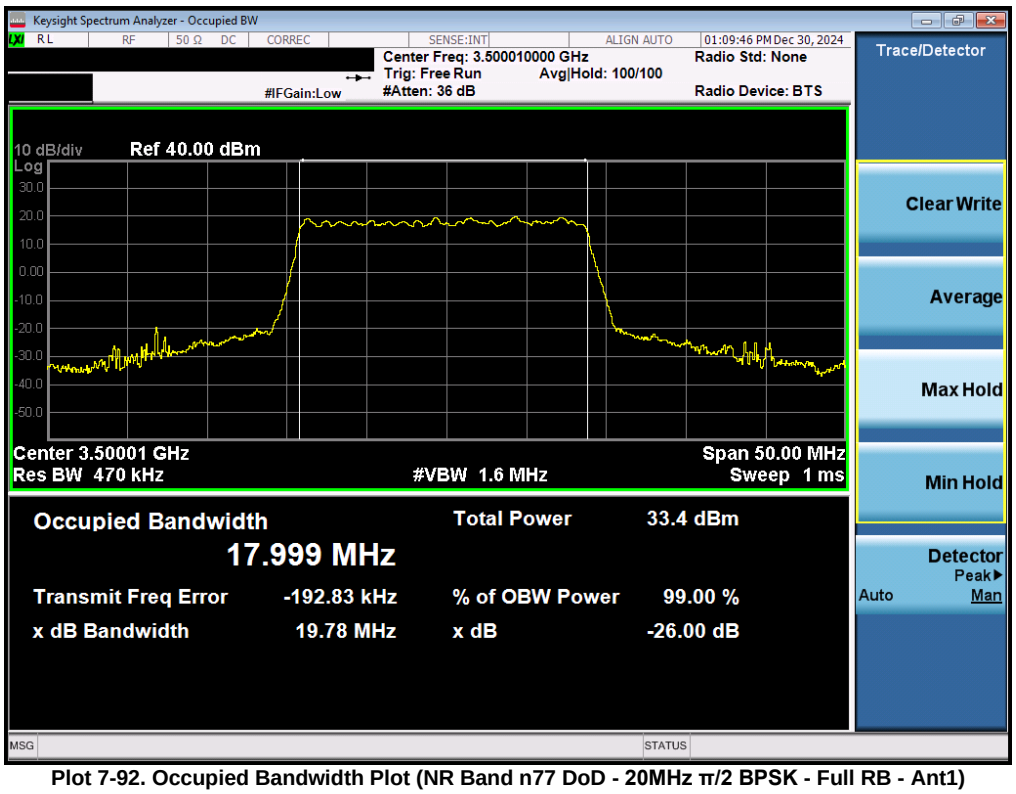
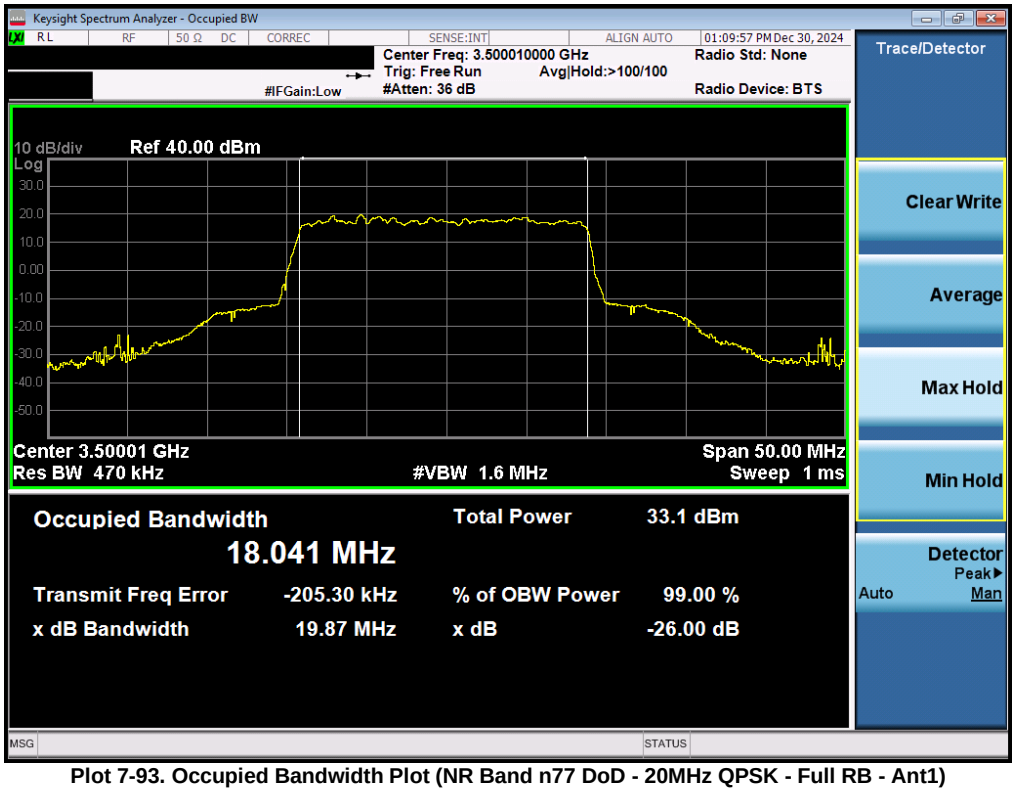


Plot 7-92. Occupied Bandwidth Plot (NR Band n77 DoD - 20MHz π/2 BPSK - Full RB - Ant1)



Plot 7-93. Occupied Bandwidth Plot (NR Band n77 DoD - 20MHz QPSK - Full RB - Ant1)

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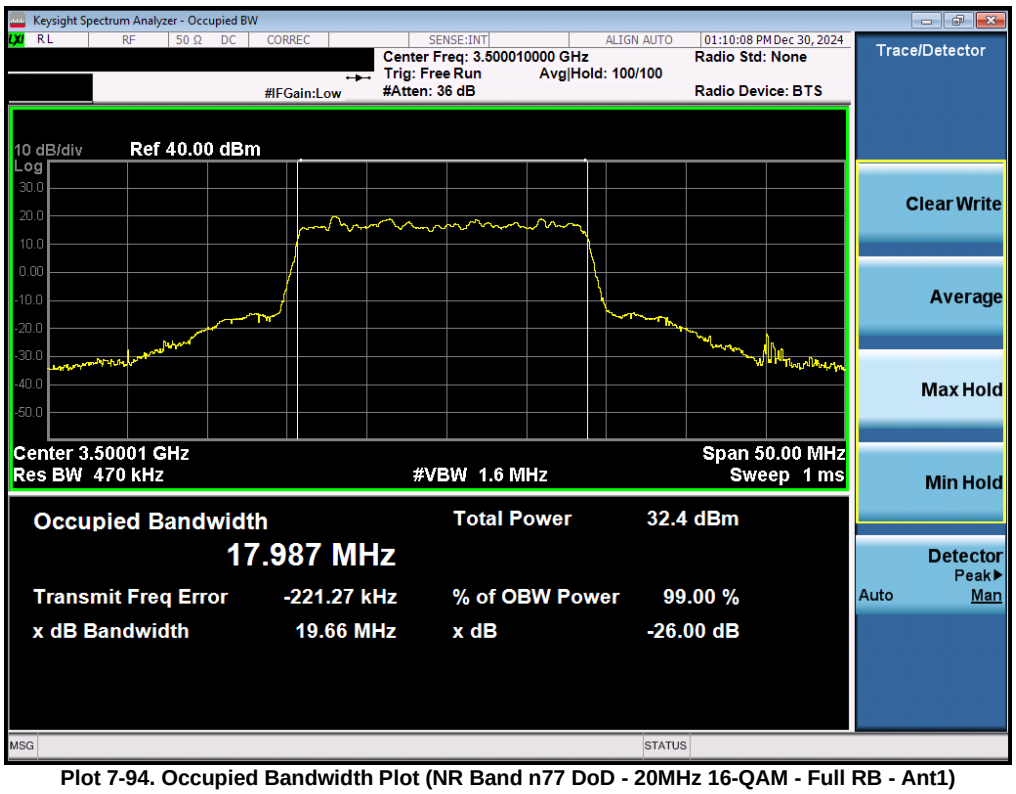
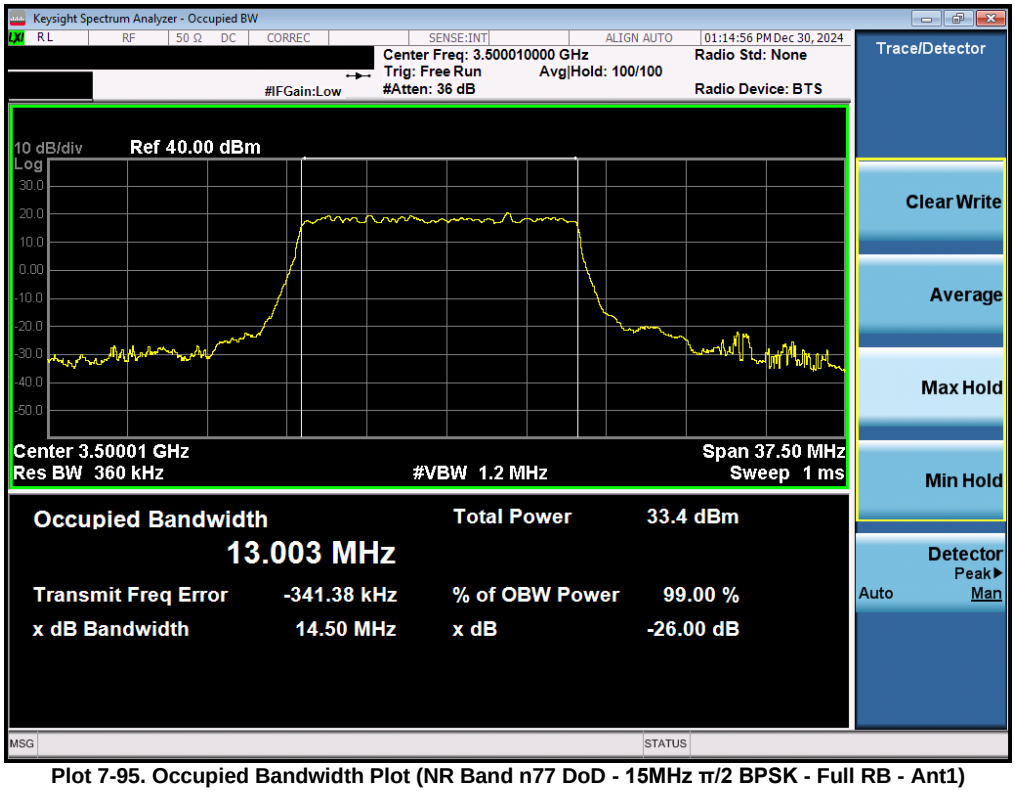


Plot 7-94. Occupied Bandwidth Plot (NR Band n77 DoD - 20MHz 16-QAM - Full RB - Ant1)



Plot 7-95. Occupied Bandwidth Plot (NR Band n77 DoD - 15MHz π/2 BPSK - Full RB - Ant1)

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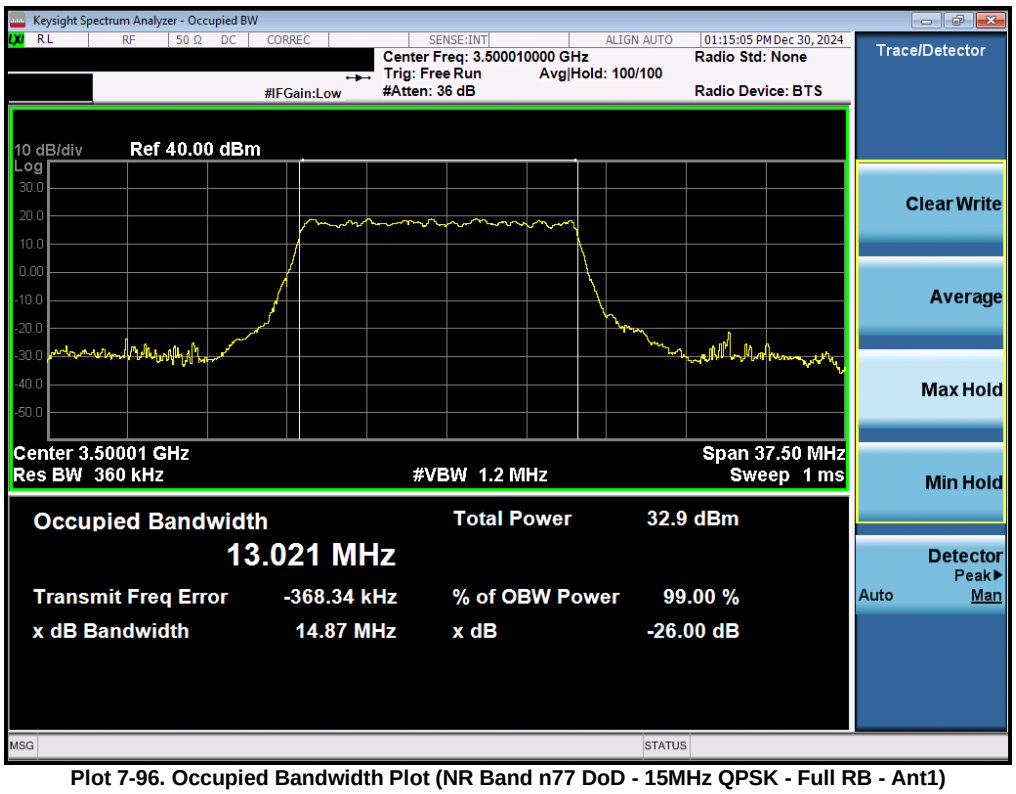
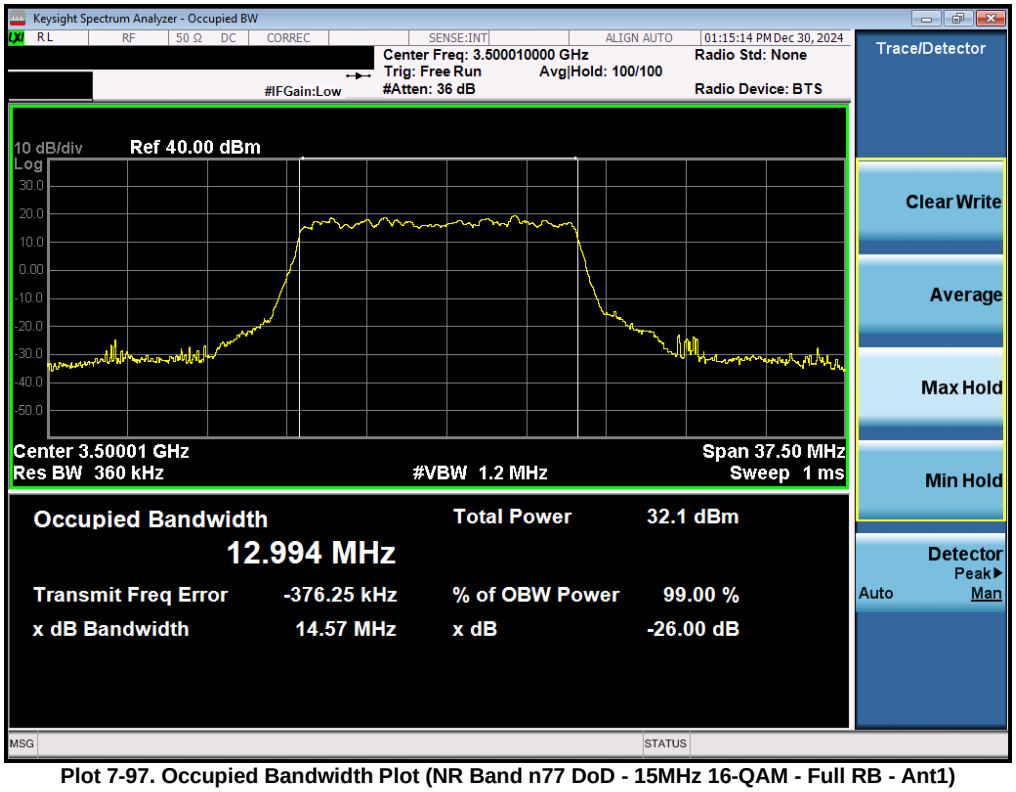


Plot 7-96. Occupied Bandwidth Plot (NR Band n77 DoD - 15MHz QPSK - Full RB - Ant1)



Plot 7-97. Occupied Bandwidth Plot (NR Band n77 DoD - 15MHz 16-QAM - Full RB - Ant1)

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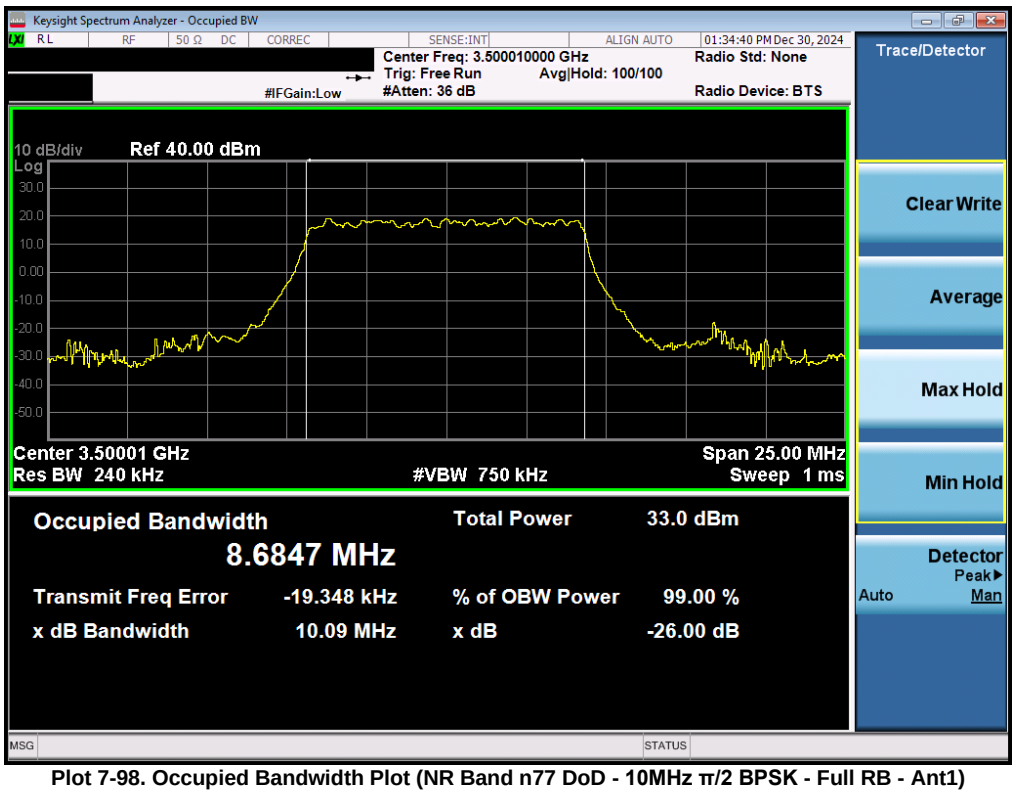
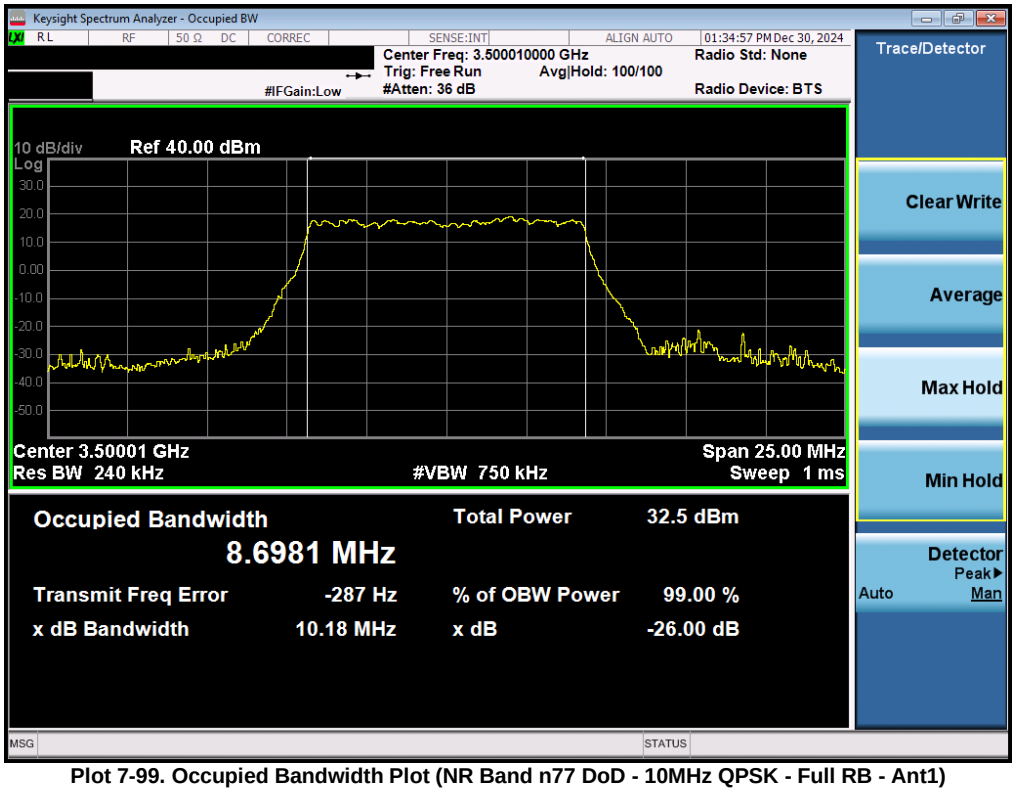


Plot 7-98. Occupied Bandwidth Plot (NR Band n77 DoD - 10MHz π/2 BPSK - Full RB - Ant1)



Plot 7-99. Occupied Bandwidth Plot (NR Band n77 DoD - 10MHz QPSK - Full RB - Ant1)

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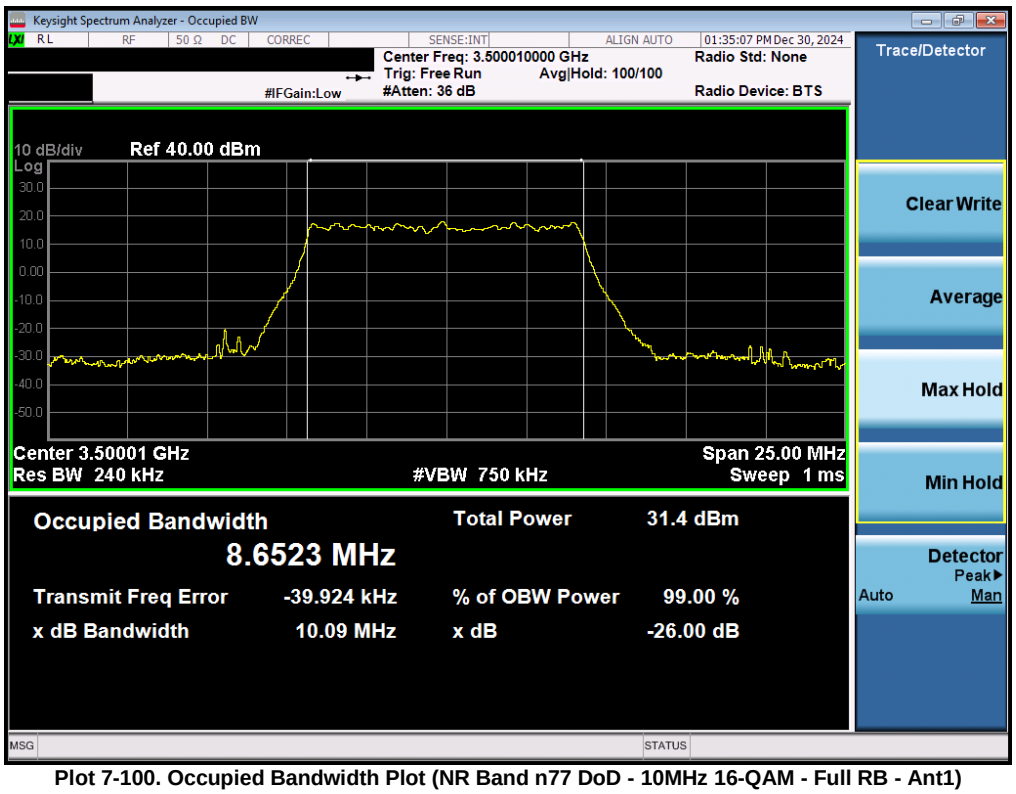

Plot 7-100. Occupied Bandwidth Plot (NR Band n77 DoD - 10MHz 16-QAM - Full RB - Ant1)

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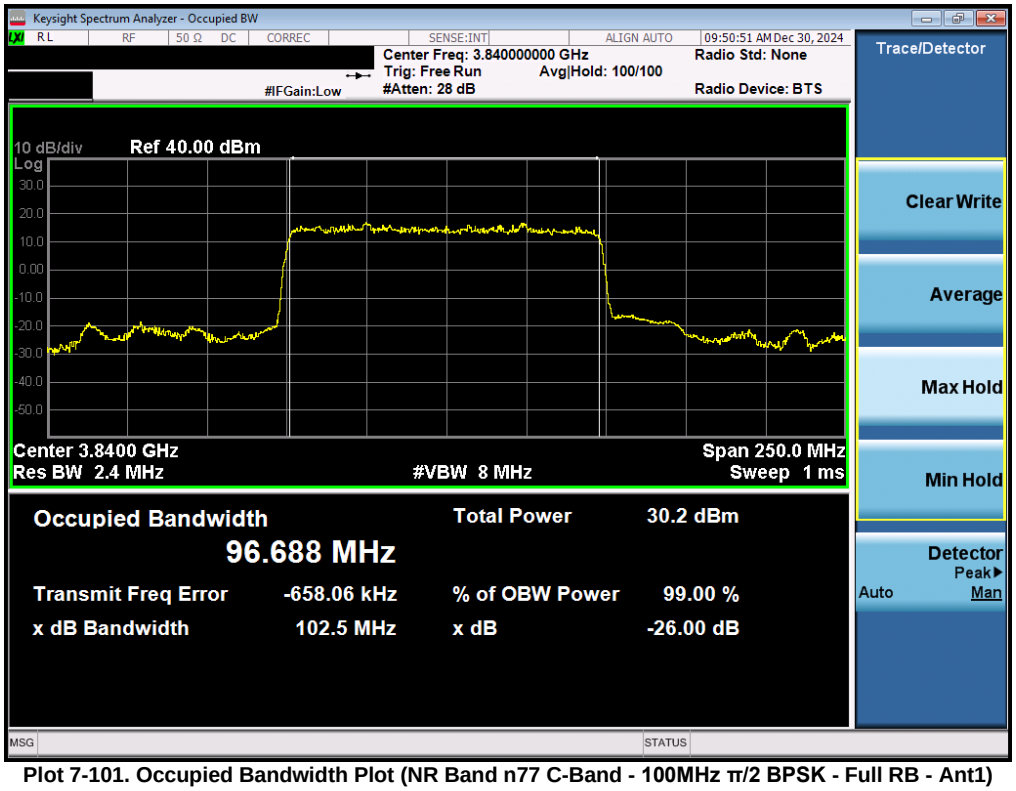
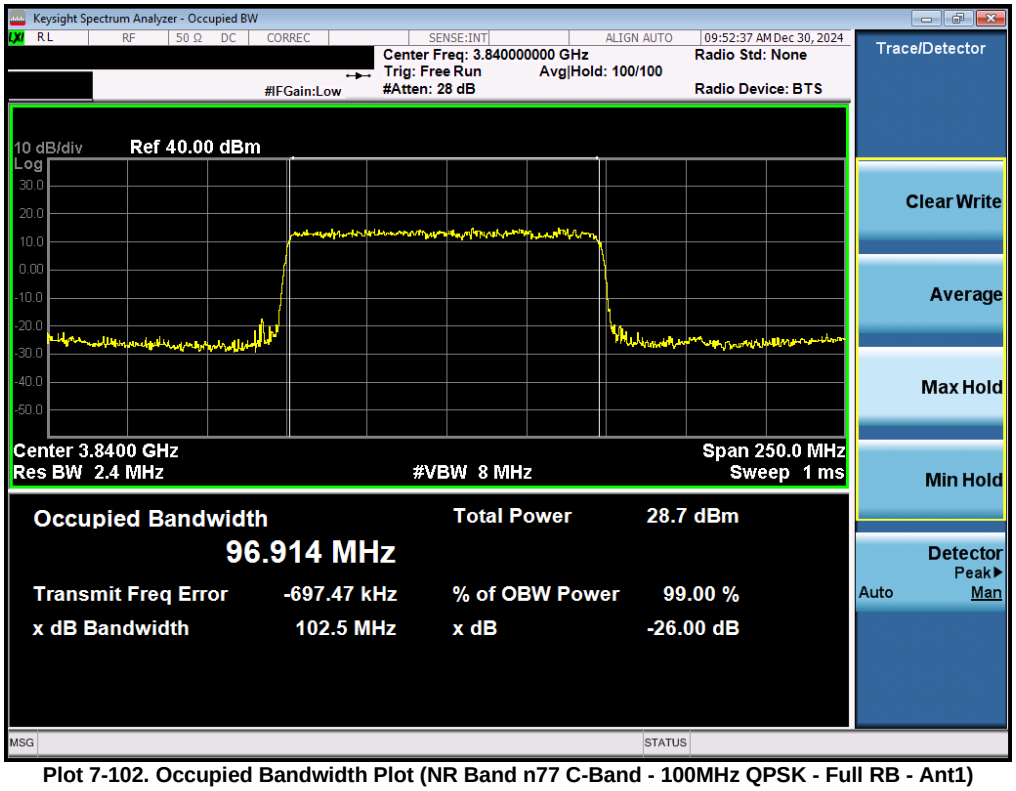
NR Band n77 C-Band – Ant1



Plot 7-101. Occupied Bandwidth Plot (NR Band n77 C-Band - 100MHz π/2 BPSK - Full RB - Ant1)



Plot 7-102. Occupied Bandwidth Plot (NR Band n77 C-Band - 100MHz QPSK - Full RB - Ant1)

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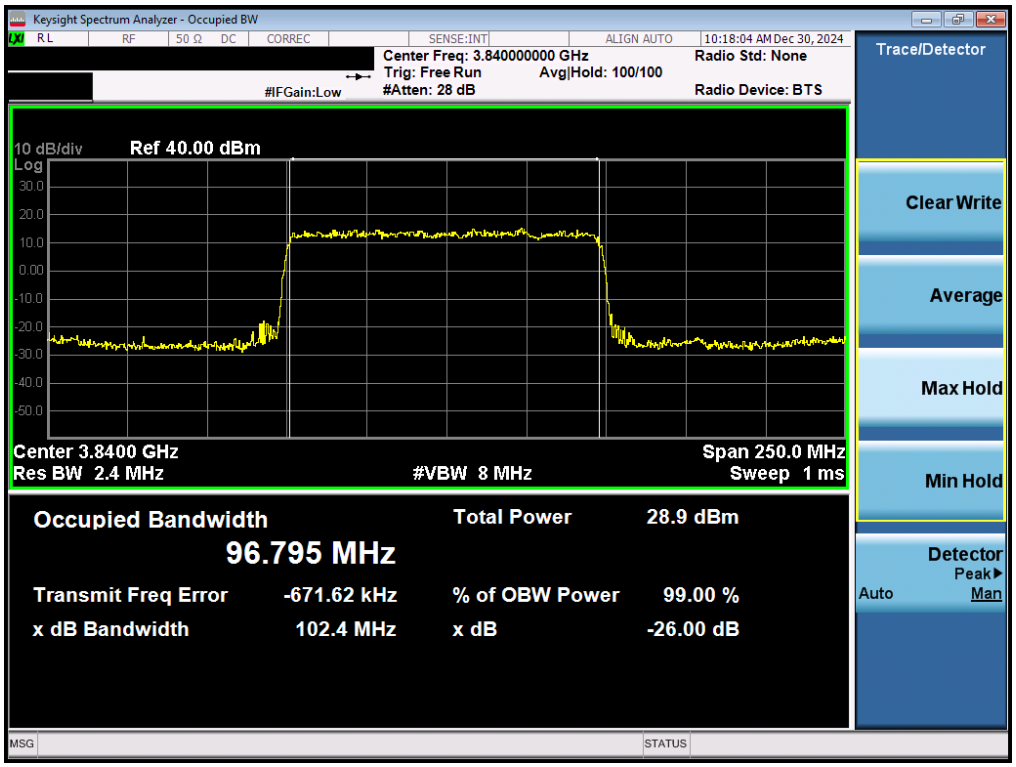
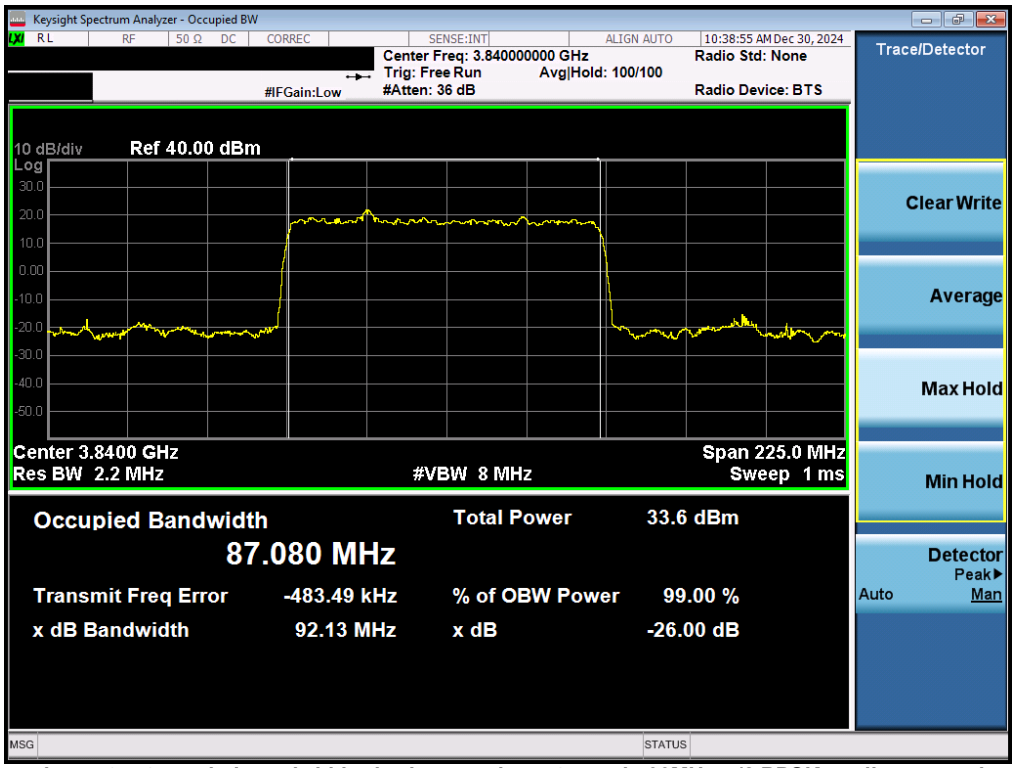


Plot 7-103. Occupied Bandwidth Plot (NR Band n77 C-Band - 100MHz 16-QAM - Full RB - Ant1)



Plot 7-104. Occupied Bandwidth Plot (NR Band n77 C-Band - 90MHz π/2 BPSK - Full RB - Ant1)

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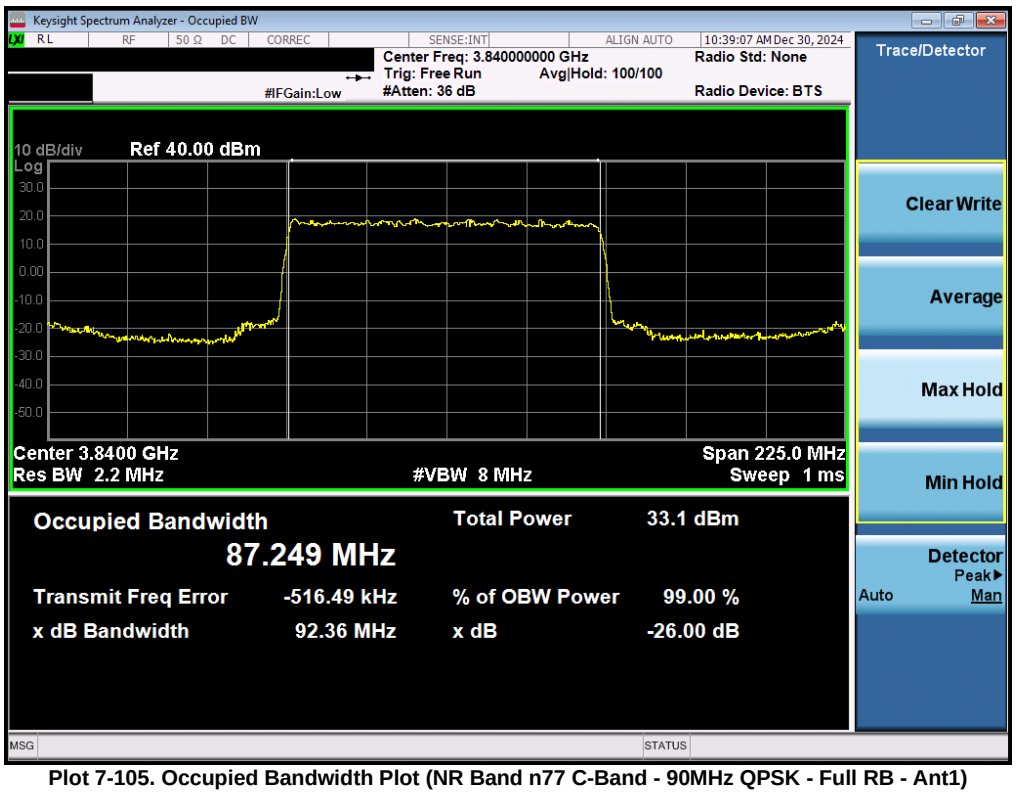
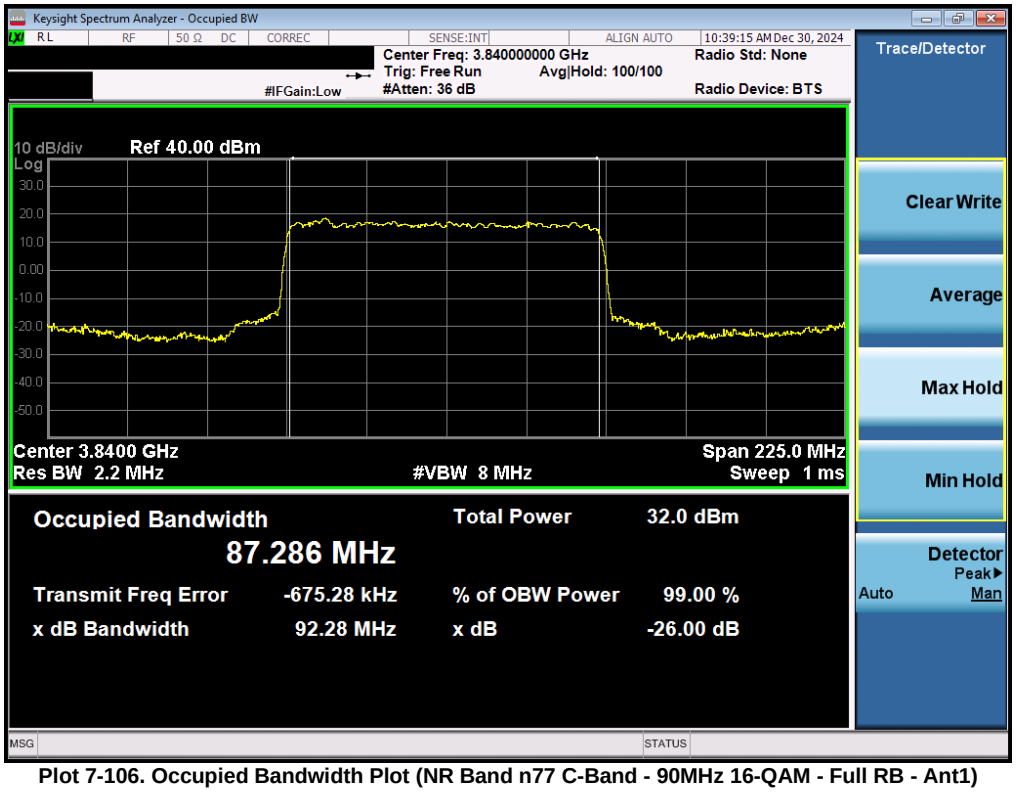


Plot 7-105. Occupied Bandwidth Plot (NR Band n77 C-Band - 90MHz QPSK - Full RB - Ant1)



Plot 7-106. Occupied Bandwidth Plot (NR Band n77 C-Band - 90MHz 16-QAM - Full RB - Ant1)

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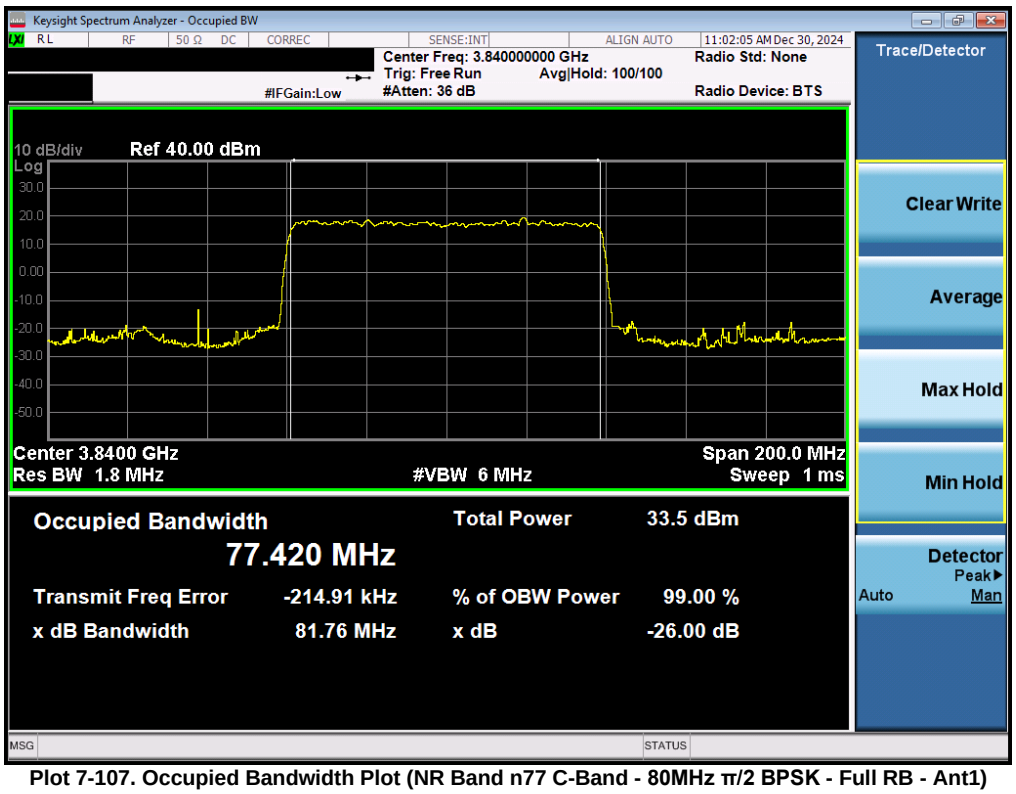
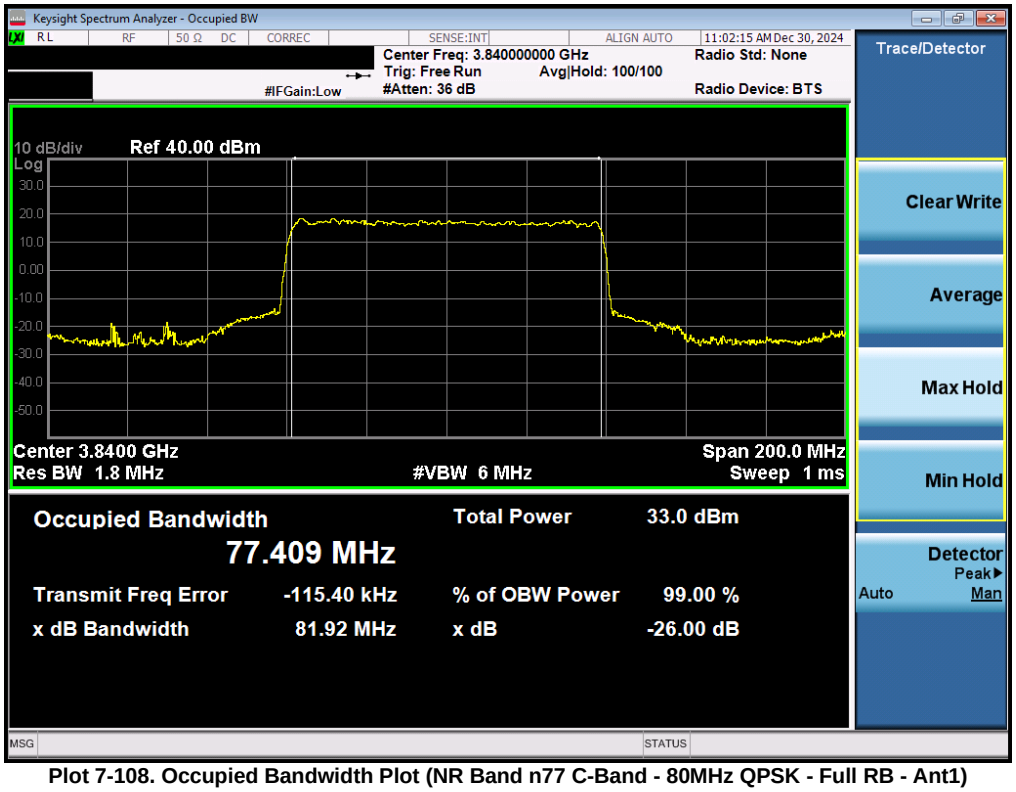


Plot 7-107. Occupied Bandwidth Plot (NR Band n77 C-Band - 80MHz π/2 BPSK - Full RB - Ant1)



Plot 7-108. Occupied Bandwidth Plot (NR Band n77 C-Band - 80MHz QPSK - Full RB - Ant1)

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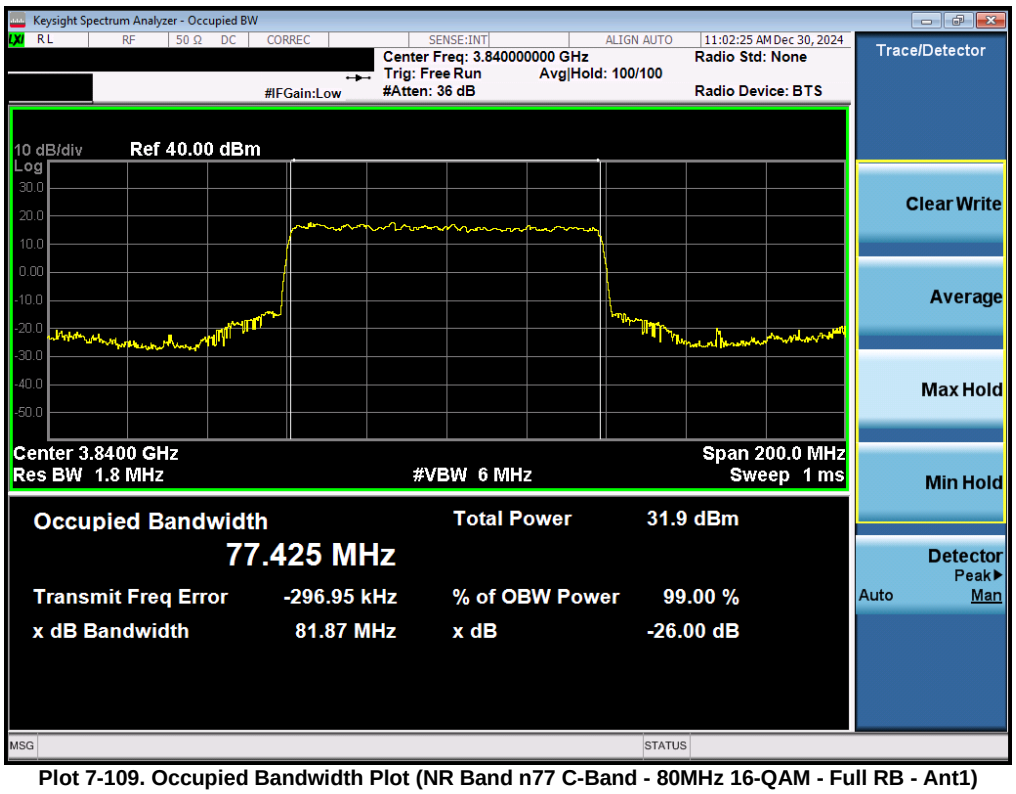
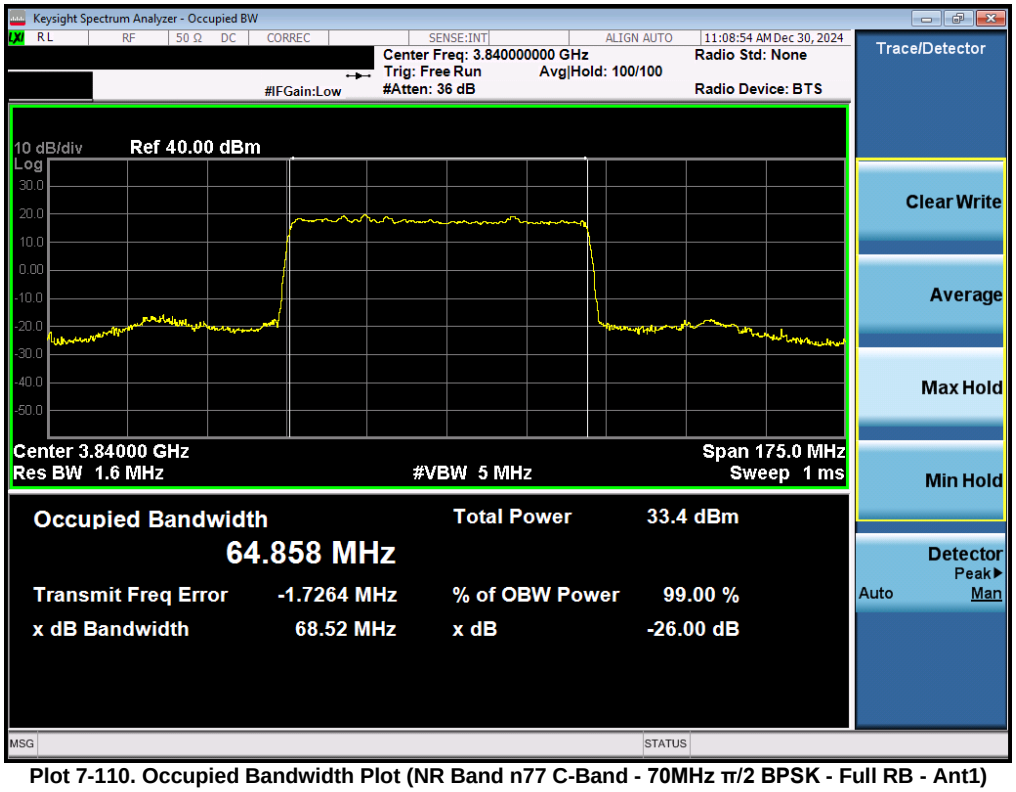


Plot 7-109. Occupied Bandwidth Plot (NR Band n77 C-Band - 80MHz 16-QAM - Full RB - Ant1)



Plot 7-110. Occupied Bandwidth Plot (NR Band n77 C-Band - 70MHz π/2 BPSK - Full RB - Ant1)

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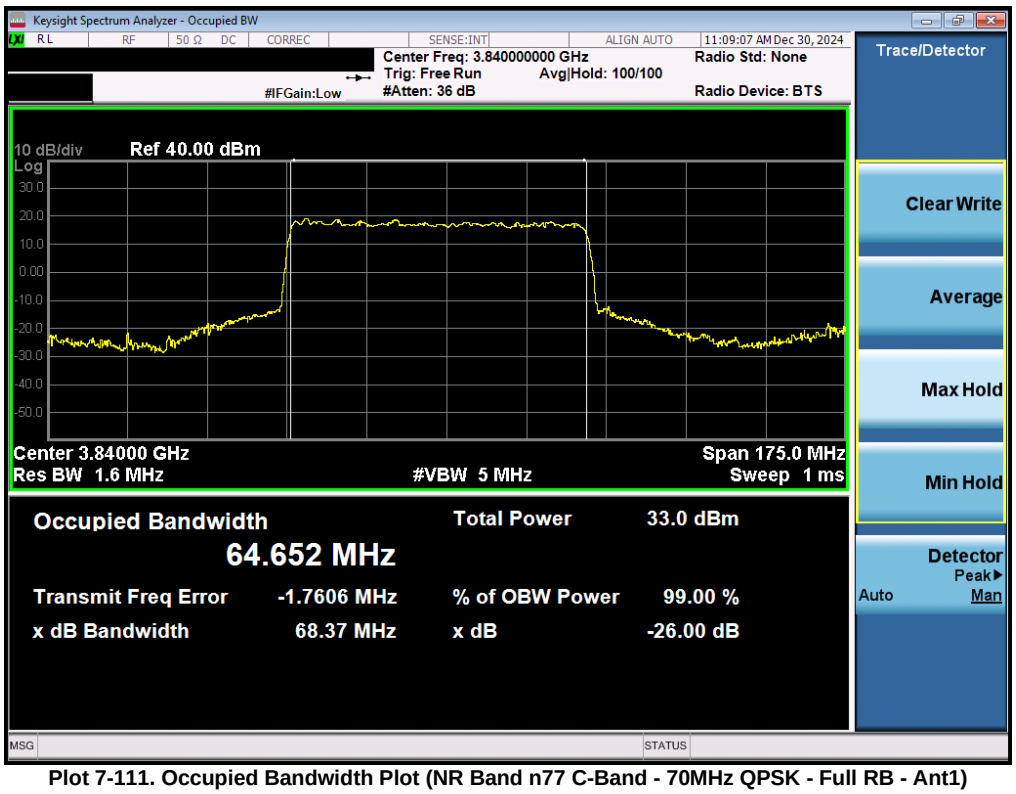
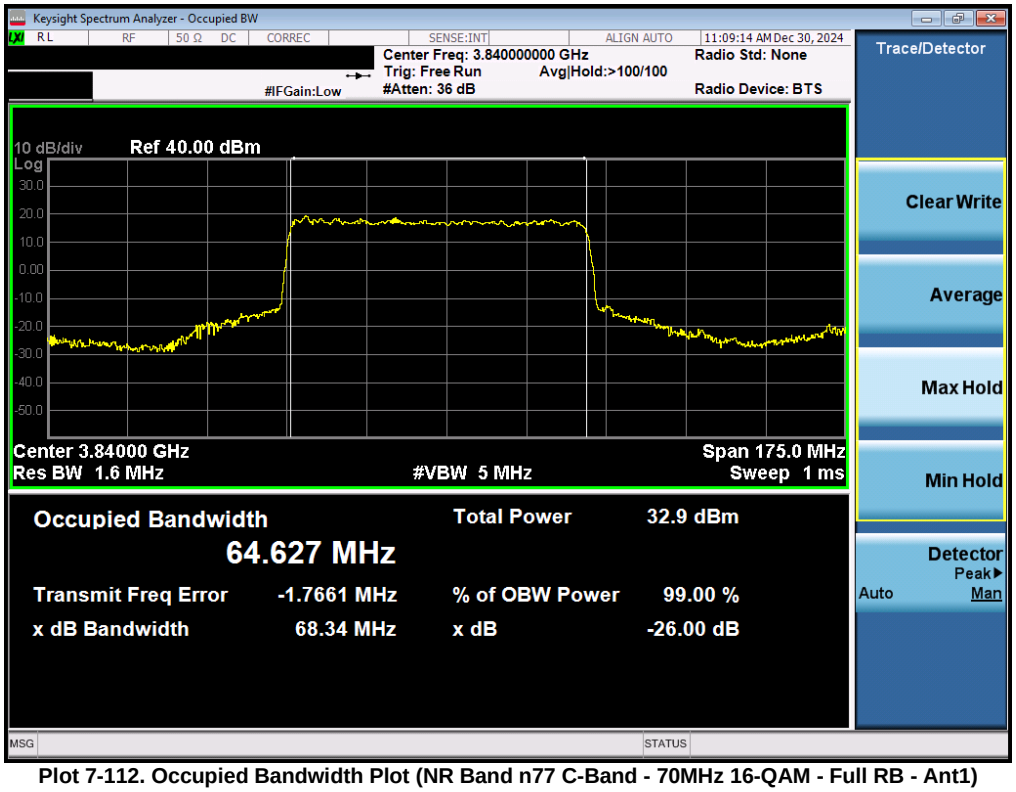


Plot 7-111. Occupied Bandwidth Plot (NR Band n77 C-Band - 70MHz QPSK - Full RB - Ant1)



Plot 7-112. Occupied Bandwidth Plot (NR Band n77 C-Band - 70MHz 16-QAM - Full RB - Ant1)

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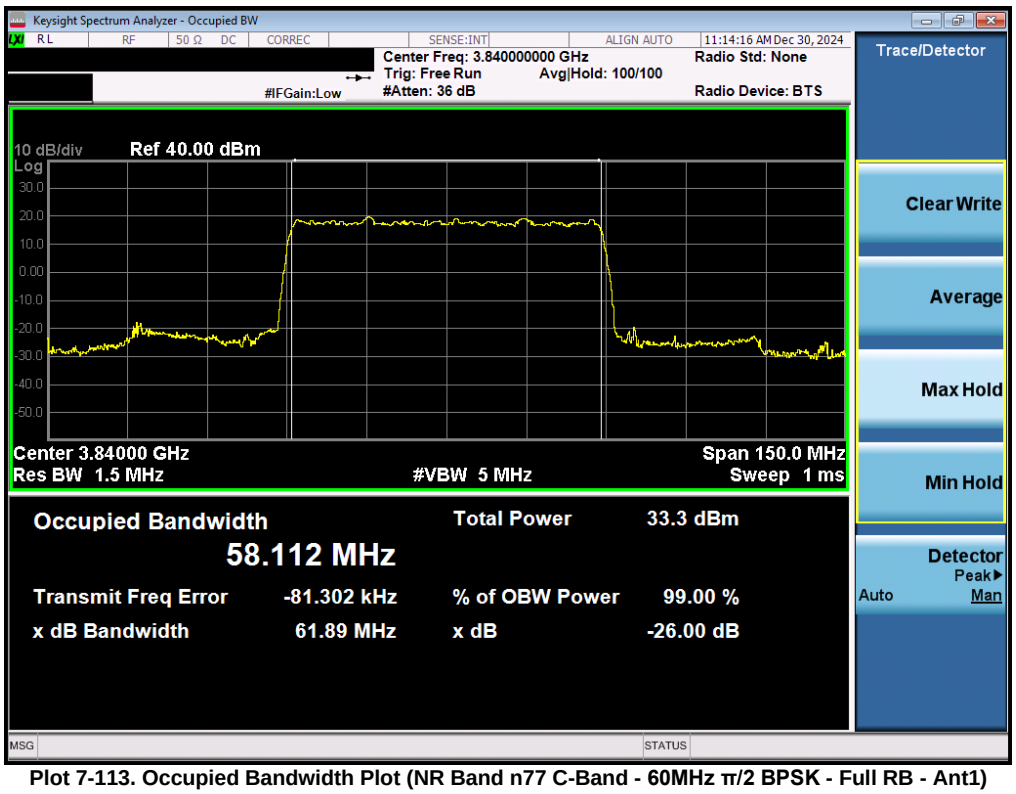
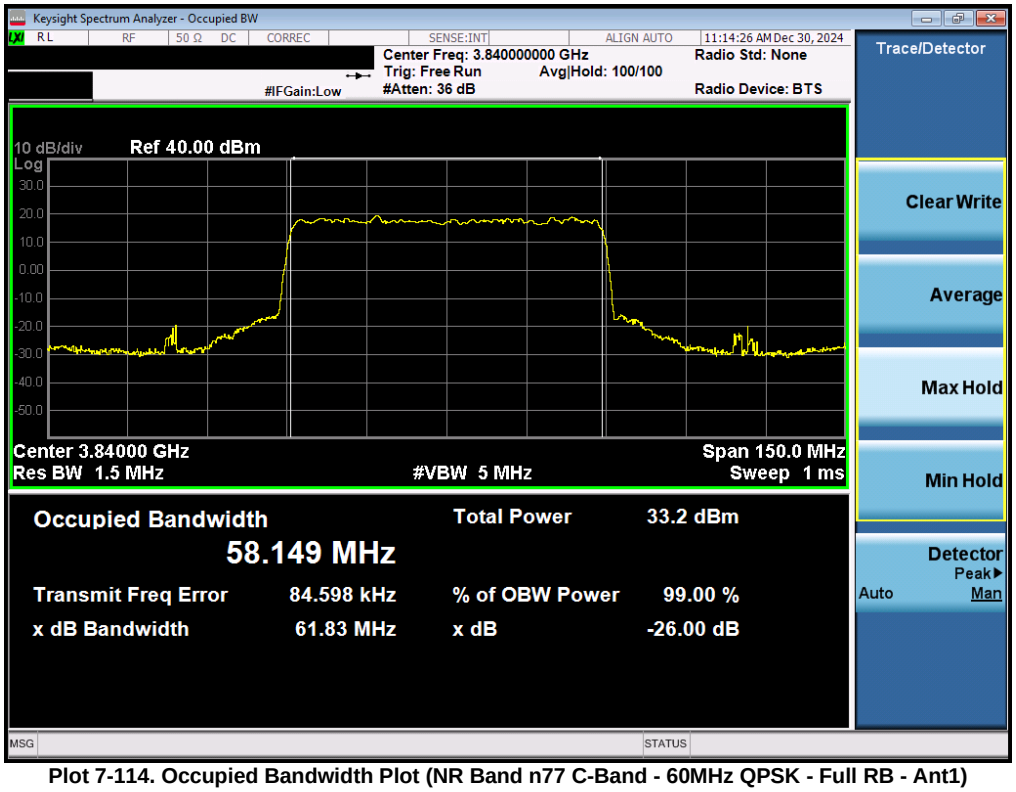


Plot 7-113. Occupied Bandwidth Plot (NR Band n77 C-Band - 60MHz π/2 BPSK - Full RB - Ant1)



Plot 7-114. Occupied Bandwidth Plot (NR Band n77 C-Band - 60MHz QPSK - Full RB - Ant1)

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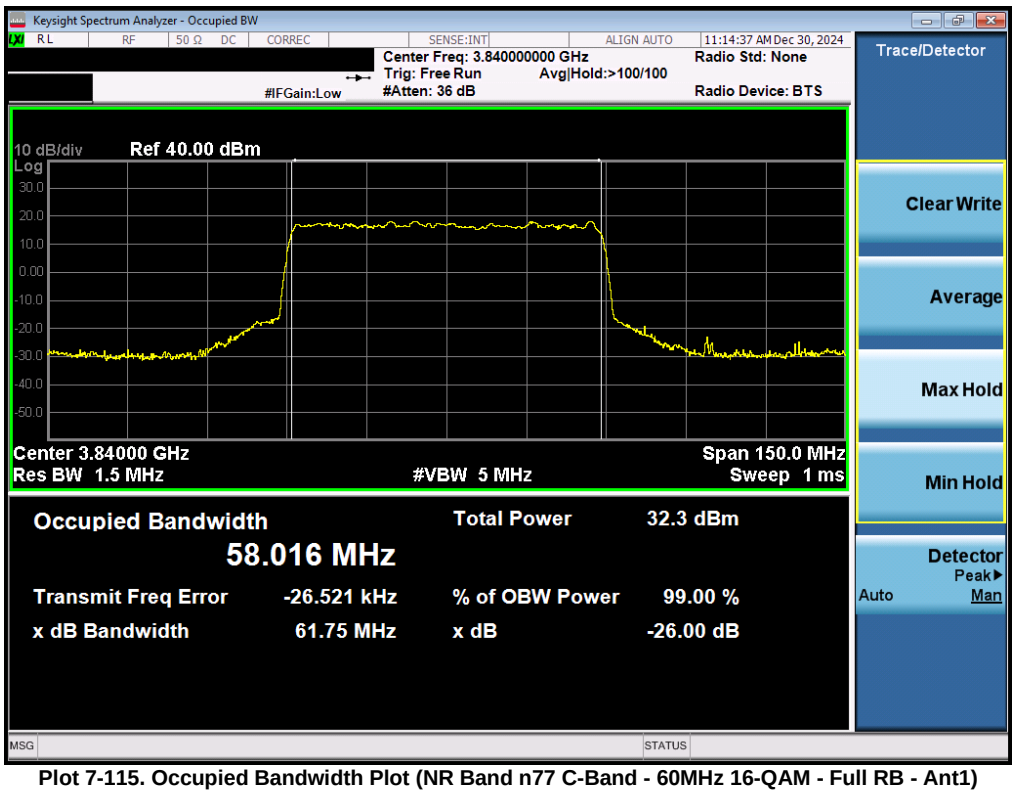
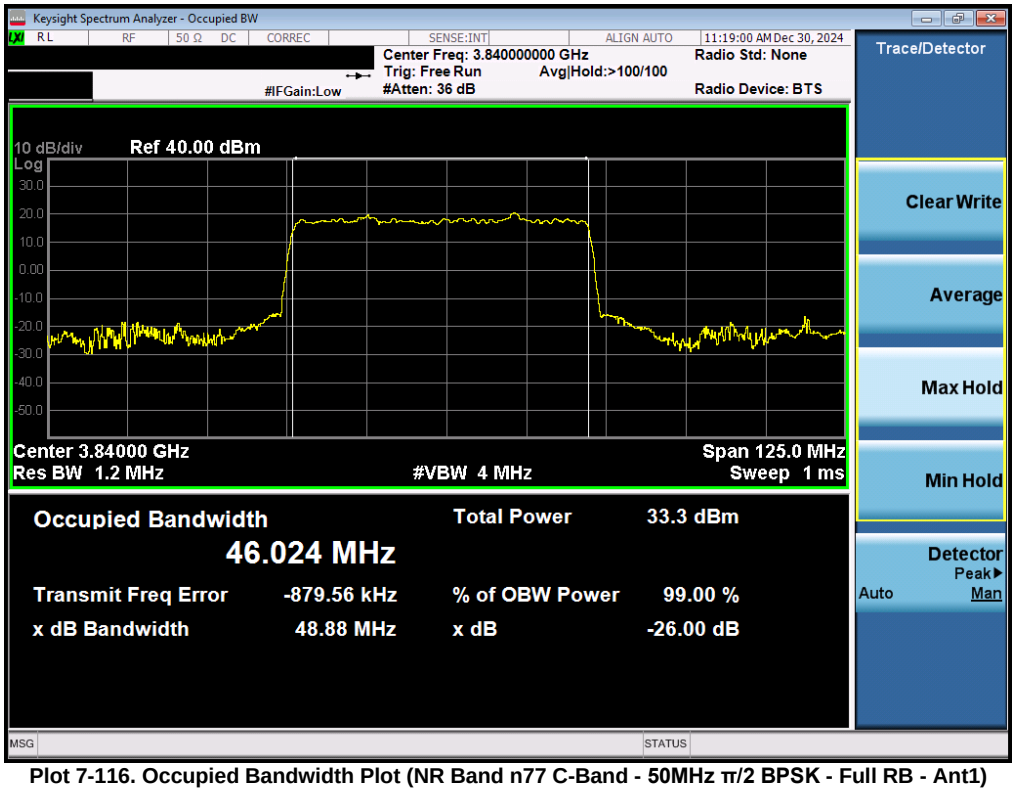


Plot 7-115. Occupied Bandwidth Plot (NR Band n77 C-Band - 60MHz 16-QAM - Full RB - Ant1)



Plot 7-116. Occupied Bandwidth Plot (NR Band n77 C-Band - 50MHz π/2 BPSK - Full RB - Ant1)

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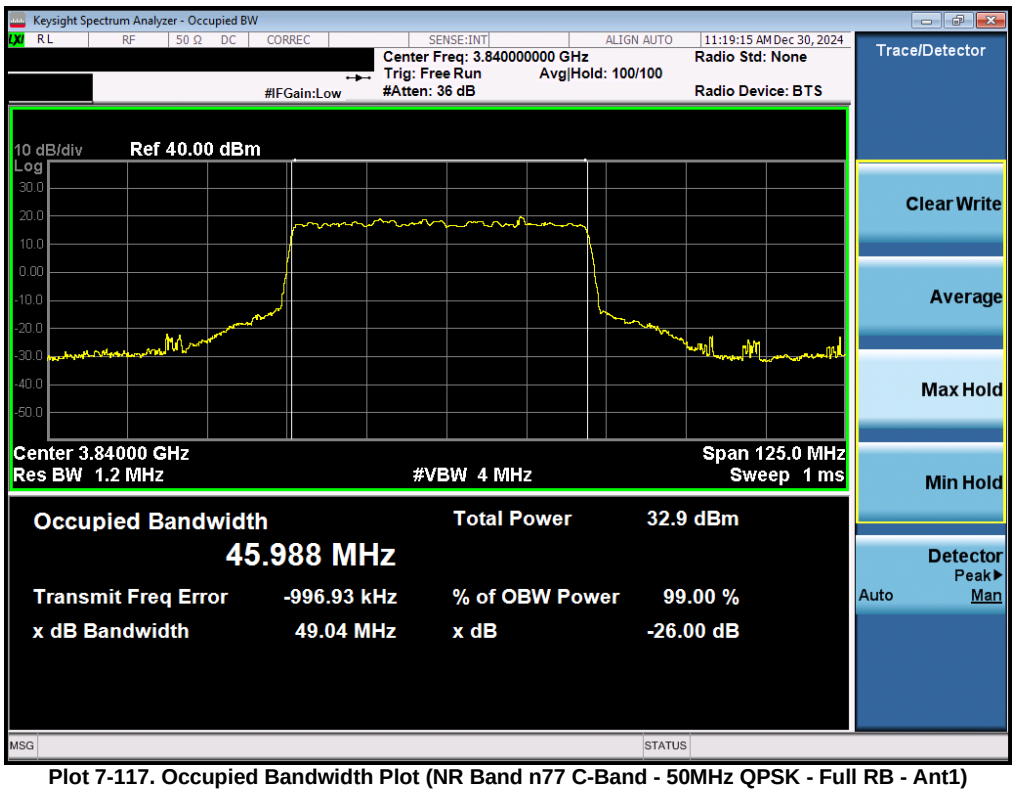
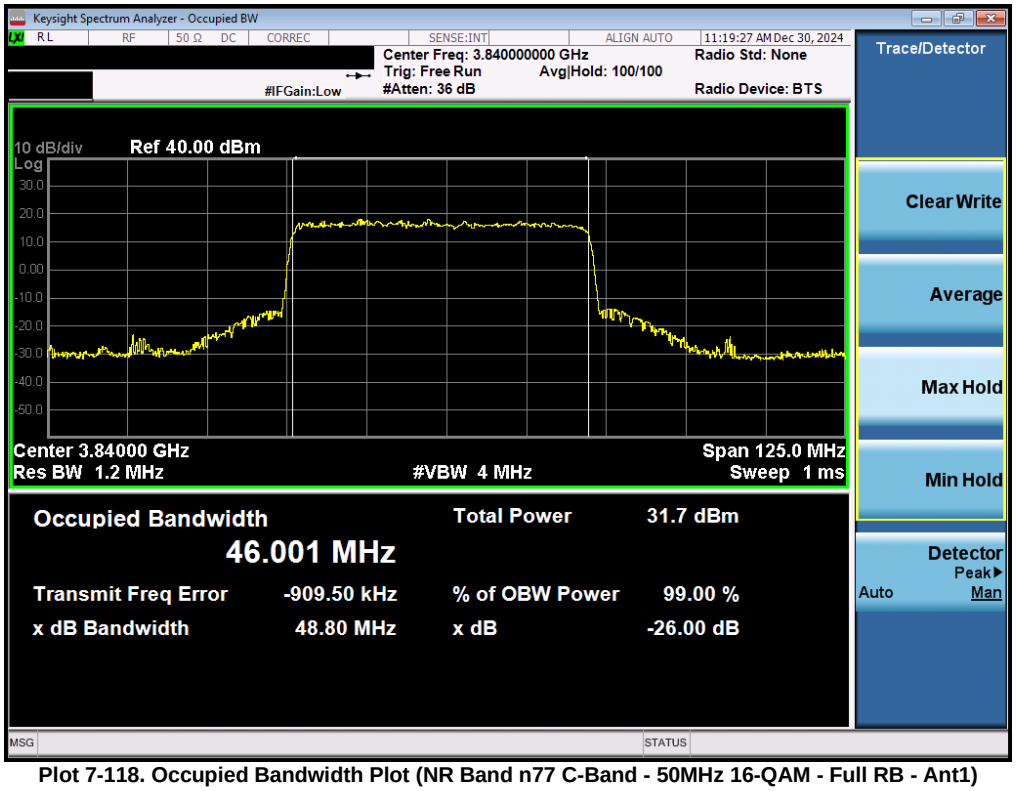


Plot 7-117. Occupied Bandwidth Plot (NR Band n77 C-Band - 50MHz QPSK - Full RB - Ant1)



Plot 7-118. Occupied Bandwidth Plot (NR Band n77 C-Band - 50MHz 16-QAM - Full RB - Ant1)

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