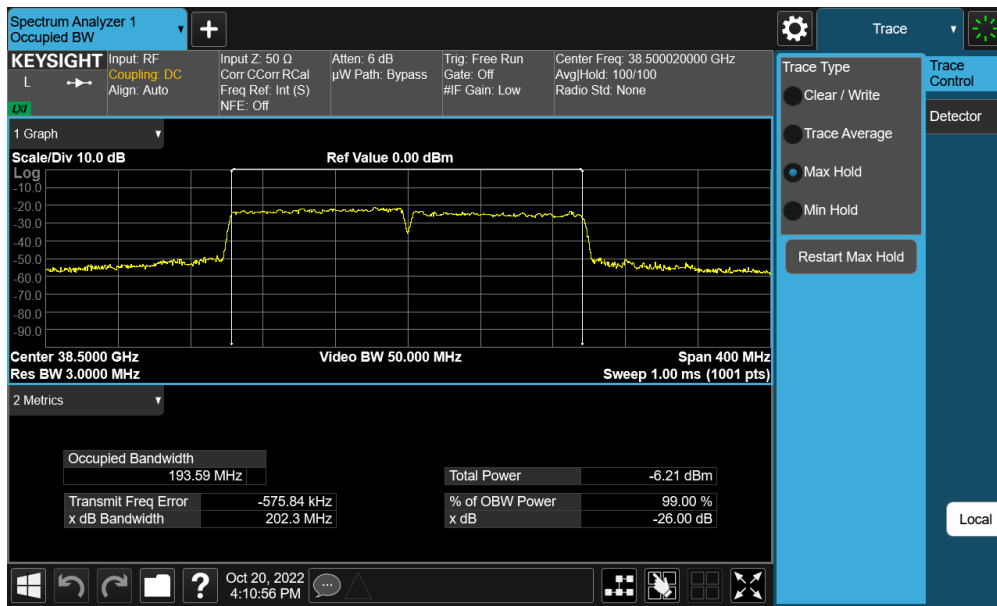
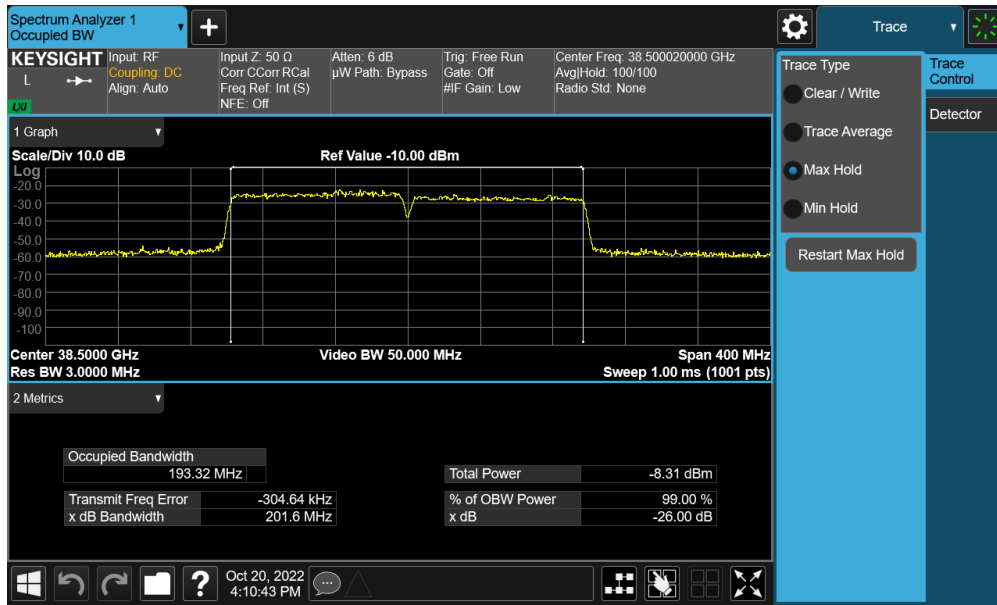


**Plot 7-58. M patch Occupied Bandwidth Plot (100MHz-2CC – DFT-s-OFDM  $\pi/2$  BPSK – Mid Channel)**



**Plot 7-59. M patch Occupied Bandwidth Plot (100MHz-2CC – CP-OFDM 16QAM – Mid Channel)**

FCC ID: A3LSMS911U		<b>PART 30 MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2209010096-08.A3L	<b>Test Dates:</b> 10/18/2022 – 11/14/2022	<b>EUT Type:</b> Portable Handset	Page 49 of 201

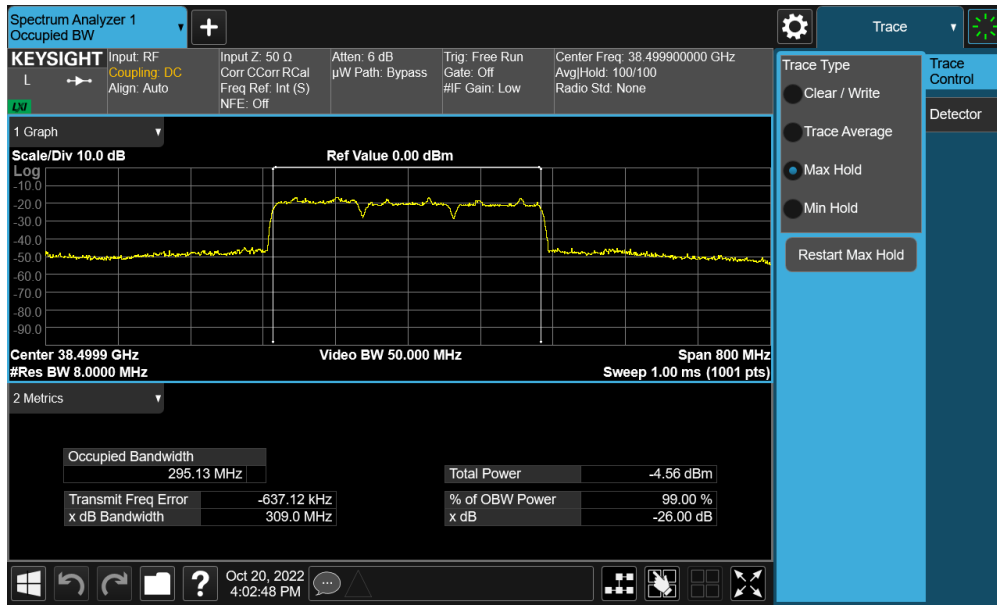


Plot 7-60. M patch Occupied Bandwidth Plot (100MHz-2CC – CP-OFDM 64QAM – Mid Channel)

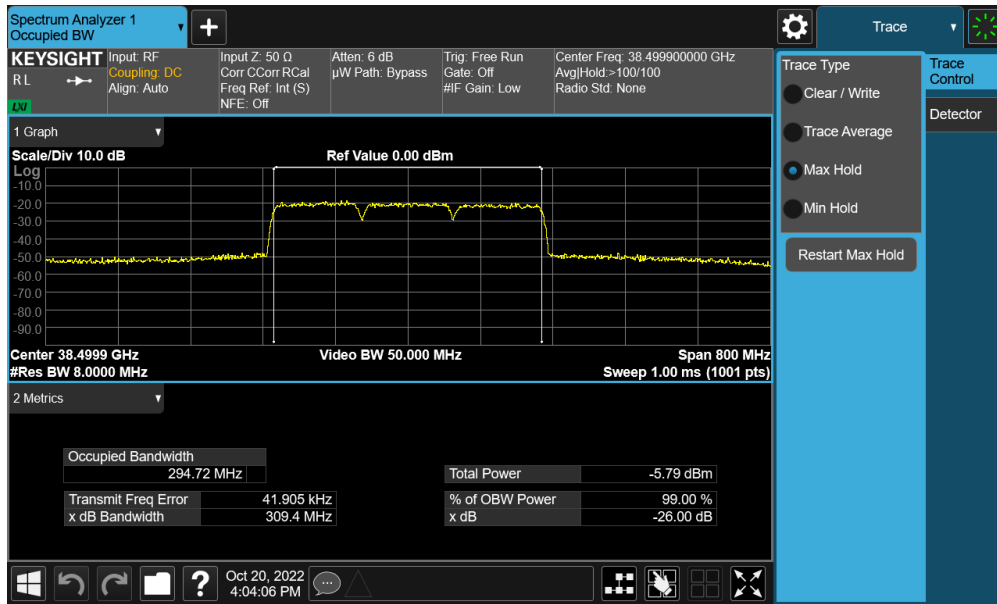


Plot 7-61. M patch Occupied Bandwidth Plot (100MHz-3CC – DFT-s-OFDM QPSK – Mid Channel)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
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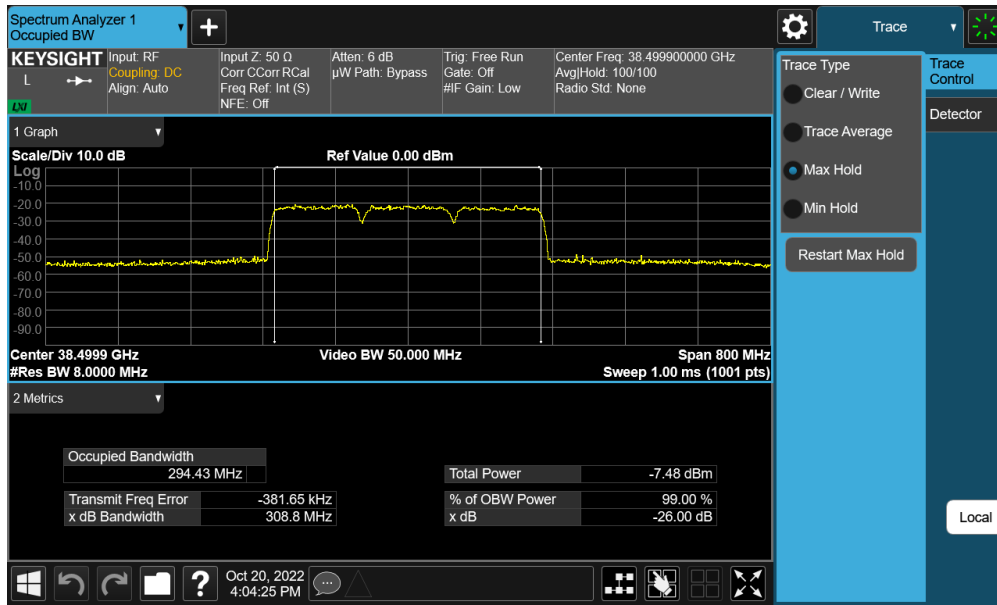


**Plot 7-62. M patch Occupied Bandwidth Plot (100MHz-3CC – DFT-s-OFDM  $\pi/2$  BPSK – Mid Channel)**

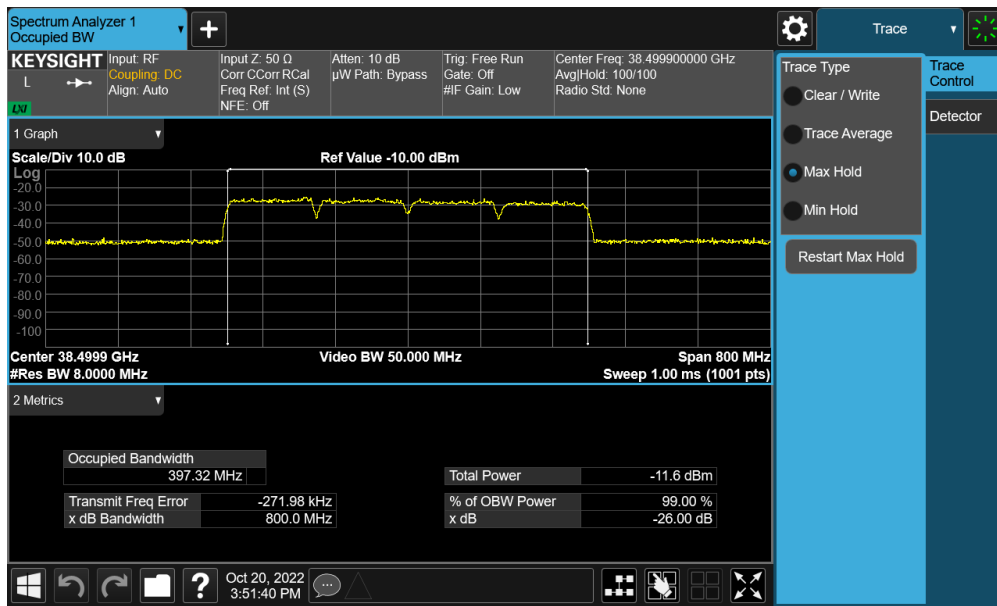


**Plot 7-63. M patch Occupied Bandwidth Plot (100MHz-3CC – DFT-s-OFDM 16QAM – Mid Channel)**

FCC ID: A3LSMS911U		<b>PART 30 MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2209010096-08.A3L	<b>Test Dates:</b> 10/18/2022 – 11/14/2022	<b>EUT Type:</b> Portable Handset	Page 51 of 201

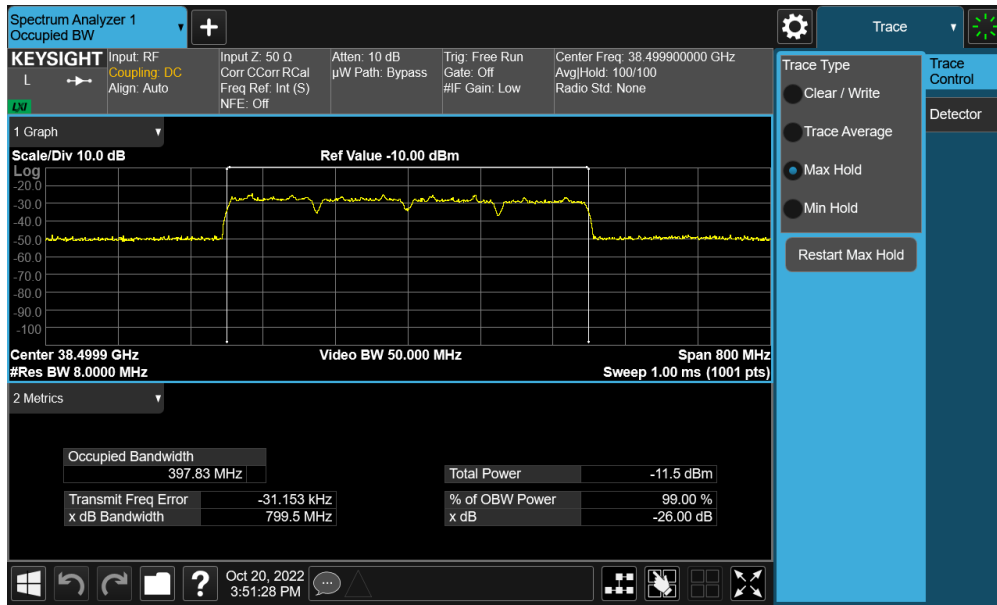


**Plot 7-64. M patch Occupied Bandwidth Plot (100MHz-3CC – DFT-s-OFDM 64QAM – Mid Channel)**

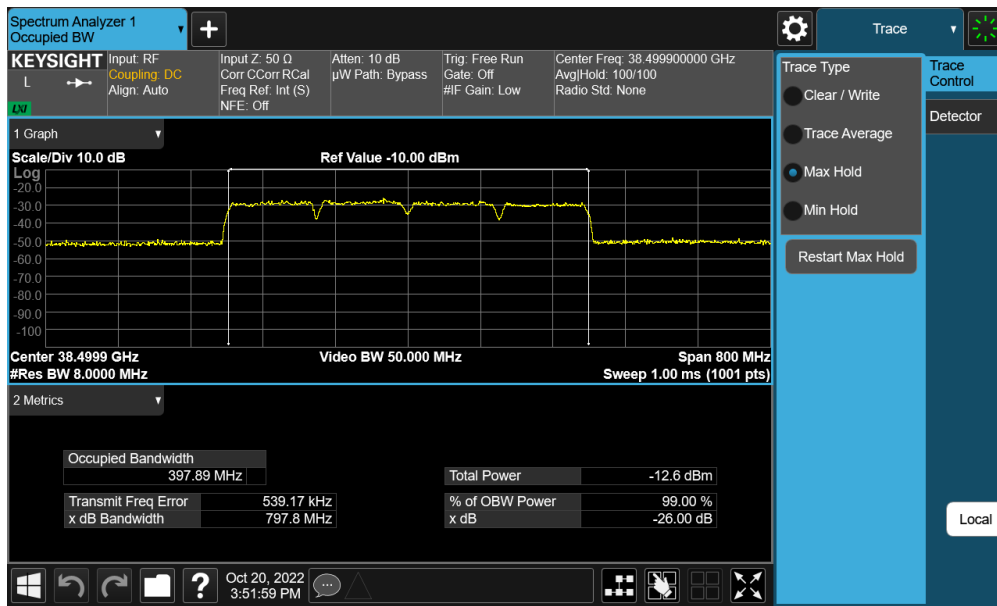


**Plot 7-65. M patch Occupied Bandwidth Plot (100MHz-4CC – DFT-s-OFDM QPSK – Mid Channel)**

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset		Page 52 of 201

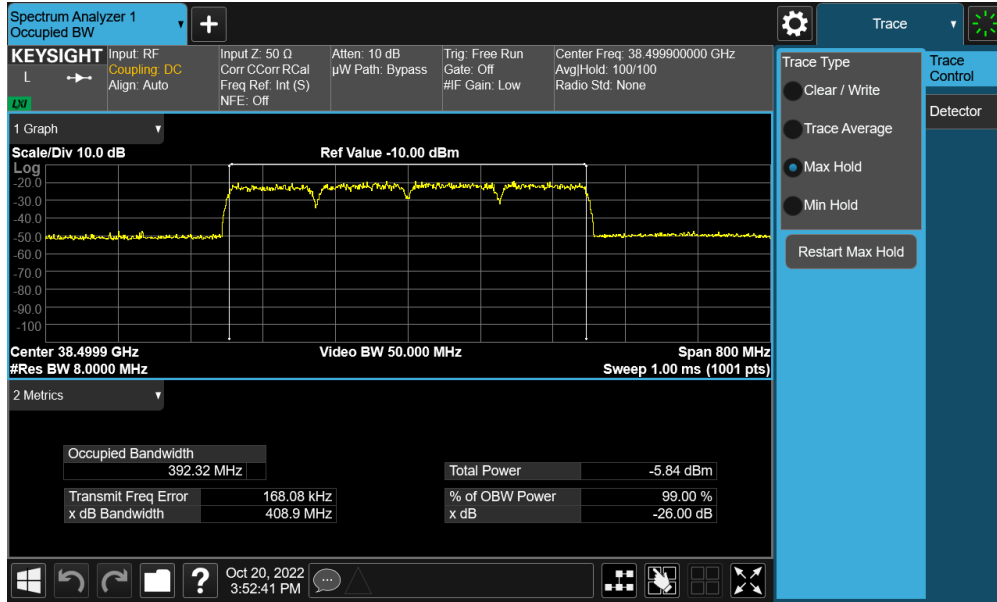


**Plot 7-66. M patch Occupied Bandwidth Plot (100MHz-4CC – DFT-s-OFDM  $\pi/2$  BPSK – Mid Channel)**



**Plot 7-67. M patch Occupied Bandwidth Plot (100MHz-4CC – DFT-s-OFDM 16QAM – Mid Channel)**

FCC ID: A3LSMS911U		<b>PART 30 MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2209010096-08.A3L	<b>Test Dates:</b> 10/18/2022 – 11/14/2022	<b>EUT Type:</b> Portable Handset	Page 53 of 201



Plot 7-68. M patch Occupied Bandwidth Plot (100MHz-4CC – DFT-s-OFDM 64QAM – Mid Channel)

FCC ID: A3LSMS911U		<b>PART 30 MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2209010096-08.A3L	<b>Test Dates:</b> 10/18/2022 – 11/14/2022	<b>EUT Type:</b> Portable Handset	Page 54 of 201

## 7.3 Equivalent Isotropic Radiated Power

### Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

***The average power of the sum of all antenna elements is limited to a maximum EIRP of +43 dBm.***

### Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4.1

KDB 842590 D01 – Section 4.2

### Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW
3. VBW  $\geq$  3 x RBW
4. Span = 2x to 3x the OBW
5. No. of sweep points  $\geq$  2 x span / RBW
6. Sweep time = Auto
7. Detector = RMS
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

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V1.0

**Test Notes**

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below. Both H-Beam and V-Beam were investigated and the worst-case measurements were reported below.
- 2) Elements within the same antenna array are correlated to produce beamforming array gain. Antenna arrays cannot be correlated with another antenna array. During testing, only one antenna array was active.
- 3) EIRP measurements for all bands were taken at 1m test distance as was required for far-field conditions (see **Table 3-1**).
- 4) The average EIRP reported below is calculated per section 5.2.7 of ANSI C63.26-2015 which states: EIRP (dBm) = E (dBμV/m) + 20log(D) – 104.8; where D is the measurement distance (in the far field region) in m. The field strength at the antenna terminals E is calculated as: E (dBμV/m) = Spectrum Analyzer Channel Power Level (dBm) + Antenna Factor (dB/m) + Cable Loss (dB) + 107.
- 5) All EIRP measurements were made with the appropriate offset levels loaded into the spectrum analyzer as determined from the measurement distance, antenna factor, cable loss, and the equations in Note 4 above.
- 6) Radiated power levels are investigated while the receive antenna was rotated through all angles to determine the worst case polarization/positioning.
- 7) This device supports transmission of H-polarized and V-polarized beams from the antenna array in both CP-OFDM and DFT-s-OFDM transmission schemes. SISO, 2Tx and MIMO operation is also supported for some configurations. As part of the testing, all modes are investigated fully on the channel showing the highest simulated EIRP using QPSK modulation. The configuration that shows the highest measured EIRP was then used to determine the EIRP for the low and high channels and for the additional modulations.
- 8) Several BeamID's are investigated based on the provided simulated data to determine the worst-case BeamID.
- 9) For each band and antenna array configuration tested, worst case EIRP plots are displayed for all total bandwidths tested (50MHz, 100MHz, 200MHz, 300MHz and 400MHz).

**Sample Calculation**

The offset level loaded into the spectrum analyzer allows for a direct conversion of the raw channel power level measured by the analyzer into an EIRP. This offset level is frequency dependent and is calculated as follows:

$$\text{Offset Level [dB]} = \text{Antenna Factor [dB/m]} + \text{Cable Loss [dB]} + 20 \text{ Log}(\text{Distance [m]}) + 107 - 104.8 .$$

For example, to measure an EIRP at a frequency of 24400MHz with an antenna factor of 40.40dB/m, a cable loss of 7.68dB, and a measurement distance of 1 meter, an offset level of:

$$\text{Offset Level} = 40.40\text{dB/m} + 7.68\text{dB} + 20 \text{ Log}(1 \text{ meter}) + 107 - 104.8 = \mathbf{50.28 \text{ dB}}$$

shall be loaded into the spectrum analyzer.

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## Band n258-R1 Beam ID Configurations

Mode	Channel	Beam Polarization	Beam ID	Beam ID Pair
SISO	Low	H	165	-
		V	36	-
	Mid	H	165	-
		V	36	-
	High	H	165	-
		V	36	-
MIMO	Low	2Tx/MIMO	155	27
	Mid	2Tx/MIMO	155	27
	High	2Tx/MIMO	155	27

**Table 7-6. M Patch Worst Case Beam ID**

Mode	Channel	Beam Polarization	Beam ID	Beam ID Pair
SISO	Low	H	158	-
		V	39	-
	Mid	H	158	-
		V	39	-
	High	H	158	-
		V	39	-
MIMO	Low	2Tx/MIMO	159	31
	Mid	2Tx/MIMO	159	31
	High	2Tx/MIMO	159	31

**Table 7-7. N Patch Worst Case Beam ID**

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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## Band n258-R1 M patch

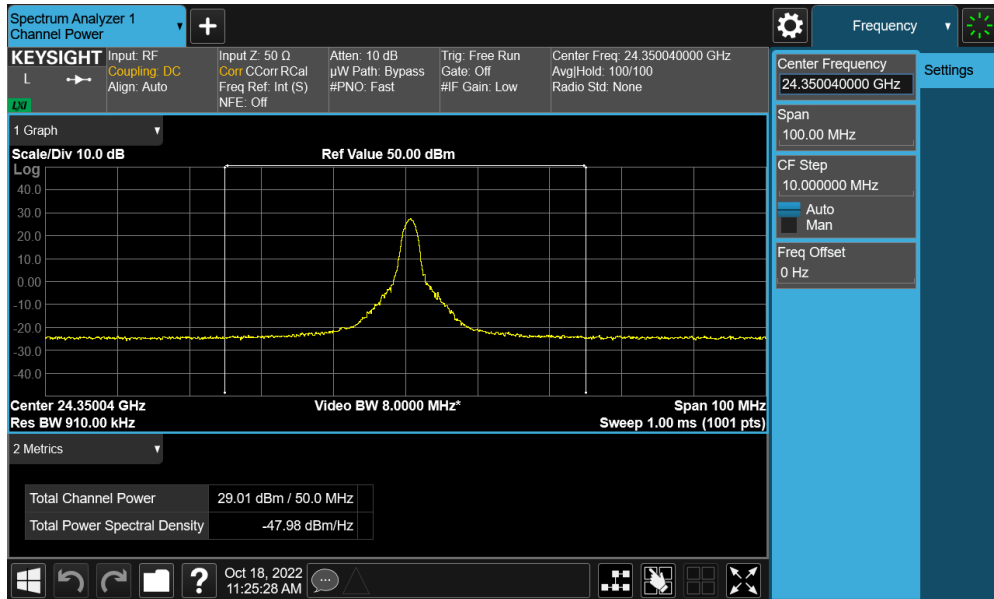
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offset	EIRP [dBm]
50	1	Low	24275.04	DFT-s-OFDM	$\pi/2$ BPSK	155 + 27	H + V	2Tx	H	75	258	1 / 16	28.41
			24350.04	DFT-s-OFDM	QPSK	155 + 27	H + V	2Tx	H	77	267	1 / 16	29.01
		Mid	DFT-s-OFDM	QPSK	165	H	SISO	V	55	266	1 / 16	28.59	
			DFT-s-OFDM	QPSK	36	V	SISO	H	84	255	1 / 19	27.82	
			CP-OFDM	QPSK	155 + 27	H + V	MIMO	H	77	267	1 / 16	25.78	
			CP-OFDM	QPSK	165	H	SISO	V	55	266	1 / 16	25.54	
			CP-OFDM	QPSK	36	V	SISO	H	84	255	1 / 19	24.72	
			DFT-s-OFDM	$\pi/2$ BPSK	155 + 27	H + V	2Tx	H	77	267	1 / 16	28.92	
			DFT-s-OFDM	16QAM	155 + 27	H + V	2Tx	H	77	267	1 / 16	26.72	
			DFT-s-OFDM	64QAM	155 + 27	H + V	2Tx	H	77	267	1 / 16	23.66	
			High	DFT-s-OFDM	$\pi/2$ BPSK	155 + 27	H + V	2Tx	H	72	256	1 / 16	28.64

Table 7-8. M patch EIRP Data (Band n258-R1 - 50MHz)

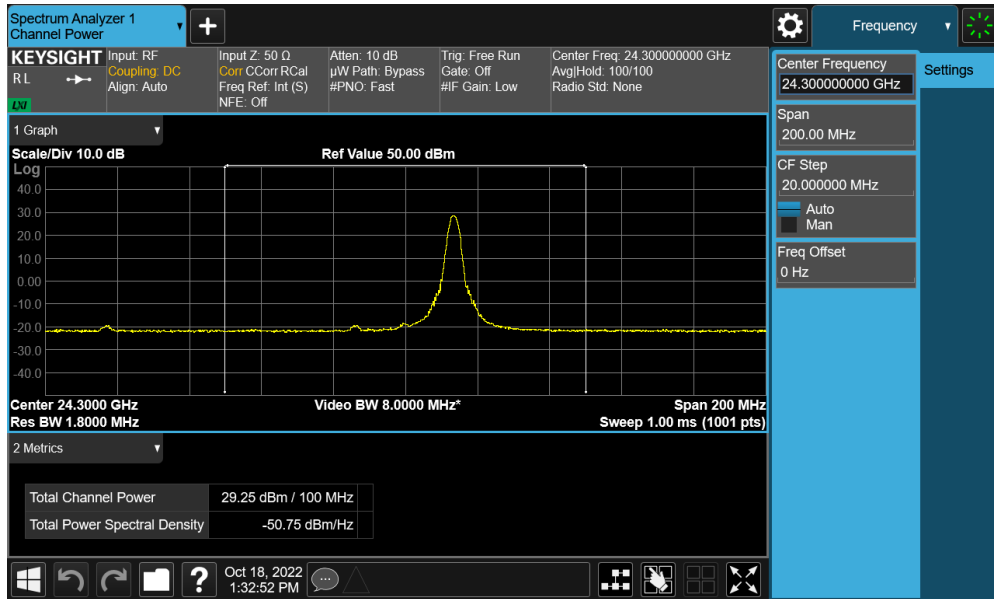
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offset	EIRP [dBm]		
100	1	Low	24300.00	DFT-s-OFDM	QPSK	155 + 27	H + V	2Tx	H	72	263	1 / 42	29.17		
				DFT-s-OFDM	QPSK	165	H	SISO	V	54	268	1 / 42	28.03		
				DFT-s-OFDM	QPSK	36	V	SISO	H	82	256	1 / 42	27.30		
				CP-OFDM	QPSK	155 + 27	H + V	MIMO	H	72	263	1 / 42	26.03		
				CP-OFDM	QPSK	165	H	SISO	V	54	268	1 / 42	24.87		
				CP-OFDM	QPSK	36	V	SISO	H	82	256	1 / 33	24.27		
				DFT-s-OFDM	$\pi/2$ BPSK	155 + 27	H + V	2Tx	H	72	263	1 / 42	29.25		
				DFT-s-OFDM	16QAM	155 + 27	H + V	2Tx	H	72	263	1 / 42	26.97		
				DFT-s-OFDM	64QAM	155 + 27	H + V	2Tx	H	72	263	1 / 42	24.01		
				Mid	DFT-s-OFDM	QPSK	155 + 27	H + V	2Tx	H	73	263	1 / 23	28.90	
		High	DFT-s-OFDM		QPSK	155 + 27	H + V	2Tx	H	72	255	1 / 33	28.57		
		100+100	2	Mid	24349.98	DFT-s-OFDM	QPSK	155 + 27	H + V	2Tx	H	73	268	64 / 0	23.65
						DFT-s-OFDM	$\pi/2$ BPSK	155 + 27	H + V	2Tx	H	73	268	64 / 0	23.70
						DFT-s-OFDM	16QAM	155 + 27	H + V	2Tx	H	73	268	1 / 42	22.21
DFT-s-OFDM	64QAM					155 + 27	H + V	2Tx	H	73	268	1 / 42	21.06		

Table 7-9. M patch EIRP Data (Band n258-R1 - 100MHz)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset		Page 58 of 201

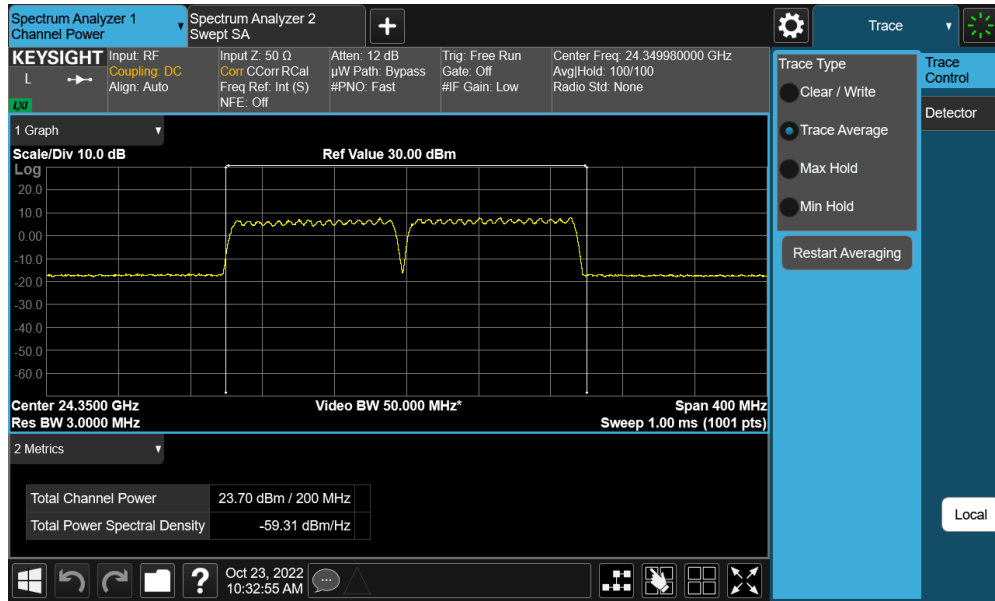


Plot 7-69. M patch EIRP Plot (Band n258-R1 – 50MHz-1CC Mid Channel DFT-s-OFDM QPSK)



Plot 7-70. M patch EIRP Plot (Band n258-R1 – 100MHz-1CC Low Channel DFT-s-OFDM  $\pi/2$  BPSK)

FCC ID: A3LSMS911U	PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset
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**Plot 7-71. M patch EIRP Plot (Band n258-R1 – 100MHz-2CC Mid Channel DFT-s-OFDM  $\pi/2$  BPSK)**

FCC ID: A3LSMS911U	PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset
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## N patch

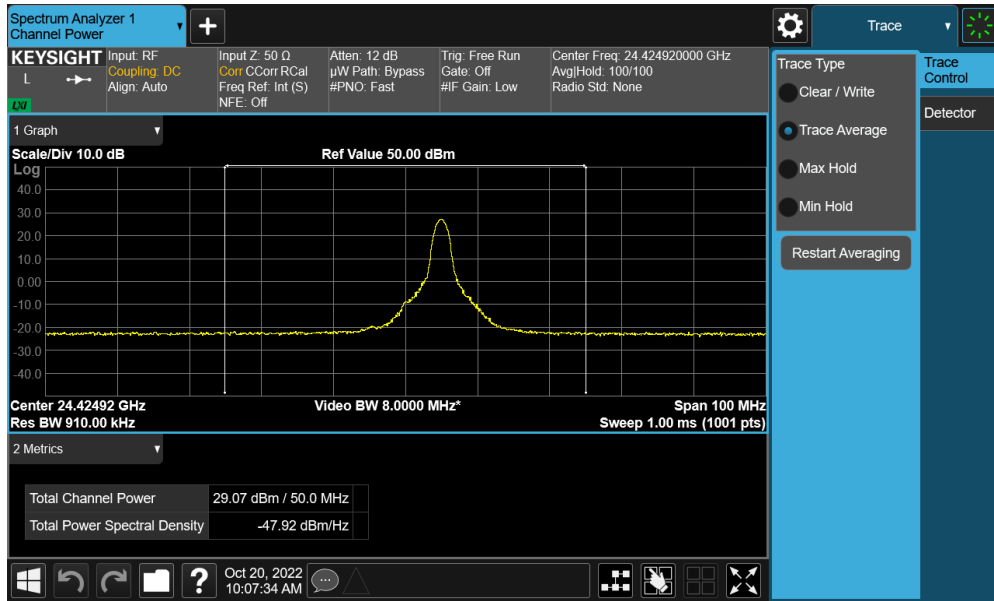
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offset	EIRP [dBm]
50	1	Low	24275.04	DFT-s-OFDM	$\pi/2$ BPSK	159 + 31	H + V	2Tx	H	323	216	1 / 19	<b>28.94</b>
			24350.04	DFT-s-OFDM	QPSK	159 + 31	H + V	2Tx	H	324	213	1 / 19	<b>28.66</b>
		High	24424.92	DFT-s-OFDM	QPSK	159 + 31	H + V	2Tx	H	324	218	1 / 19	28.95
			DFT-s-OFDM	QPSK	158	H	SISO	H	355	280	1 / 19	24.20	
			DFT-s-OFDM	QPSK	39	V	SISO	H	88	221	1 / 12	26.56	
			CP-OFDM	QPSK	159 + 31	H + V	MIMO	H	324	218	1 / 19	26.14	
			CP-OFDM	QPSK	158	H	SISO	H	355	280	1 / 16	21.09	
			CP-OFDM	QPSK	39	V	SISO	H	88	221	1 / 12	24.02	
			DFT-s-OFDM	$\pi/2$ BPSK	159 + 31	H + V	2Tx	H	324	218	1 / 19	<b>29.07</b>	
			DFT-s-OFDM	16QAM	159 + 31	H + V	2Tx	H	324	218	1 / 19	26.83	
			DFT-s-OFDM	64QAM	159 + 31	H + V	2Tx	H	324	218	1 / 19	24.19	

**Table 7-10. N patch EIRP Data (Band n258-R1 - 50MHz)**

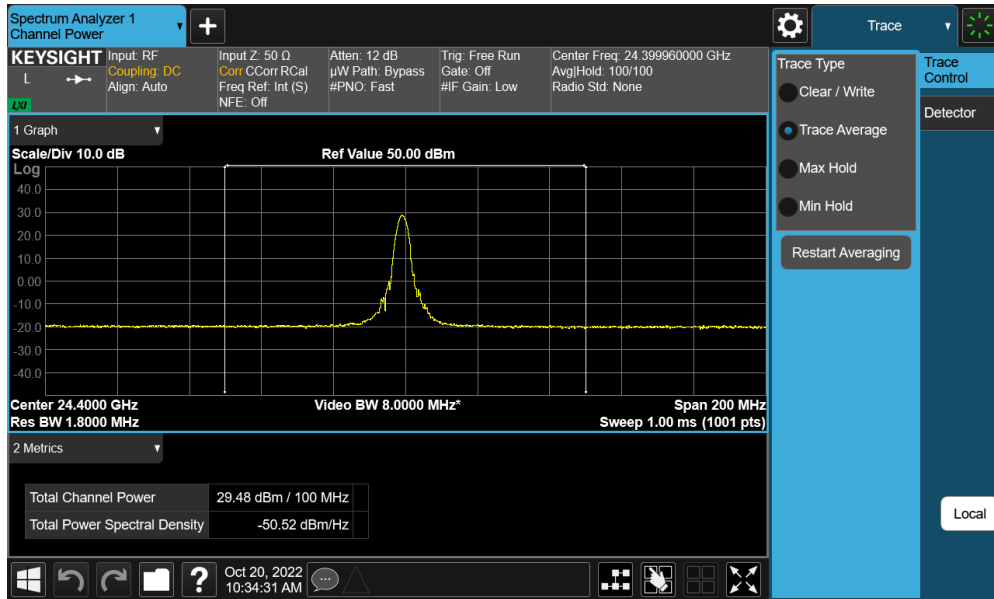
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offset	EIRP [dBm]
100	1	Low	24300.00	DFT-s-OFDM	$\pi/2$ BPSK	159 + 31	H + V	2Tx	H	322	217	1 / 32	<b>29.17</b>
			24350.04	DFT-s-OFDM	$\pi/2$ BPSK	159 + 31	H + V	2Tx	H	316	216	1 / 40	<b>29.28</b>
		High	24399.96	DFT-s-OFDM	QPSK	159 + 31	H + V	2Tx	H	322	217	1 / 32	<b>29.48</b>
			DFT-s-OFDM	QPSK	158	H	SISO	H	10	279	1 / 40	24.20	
			DFT-s-OFDM	QPSK	39	V	SISO	H	88	220	1 / 25	26.30	
			CP-OFDM	QPSK	159 + 31	H + V	MIMO	H	322	217	1 / 40	26.47	
			CP-OFDM	QPSK	158	H	SISO	H	10	279	1 / 40	21.10	
			CP-OFDM	QPSK	39	V	SISO	H	88	220	1 / 40	23.39	
			DFT-s-OFDM	$\pi/2$ BPSK	159 + 31	H + V	2Tx	H	322	217	1 / 40	<b>29.47</b>	
			DFT-s-OFDM	16QAM	159 + 31	H + V	2Tx	H	322	217	1 / 40	27.40	
			DFT-s-OFDM	64QAM	159 + 31	H + V	2Tx	H	322	217	1 / 32	<b>24.34</b>	
			100+100	2	Mid	24349.98	DFT-s-OFDM	QPSK	159 + 31	H + V	2Tx	H	316
DFT-s-OFDM	$\pi/2$ BPSK	159 + 31				H + V	2Tx	H	316	216	64 / 0	<b>22.79</b>	
DFT-s-OFDM	16QAM	159 + 31				H + V	2Tx	H	316	216	1 / 25	21.01	
DFT-s-OFDM	64QAM	159 + 31				H + V	2Tx	H	316	216	1 / 25	19.81	

**Table 7-11. N patch EIRP Data (Band n258-R1 - 100MHz)**

FCC ID: A3LSMS911U			<b>PART 30 MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2209010096-08.A3L	<b>Test Dates:</b> 10/18/2022 – 11/14/2022	<b>EUT Type:</b> Portable Handset		Page 61 of 201

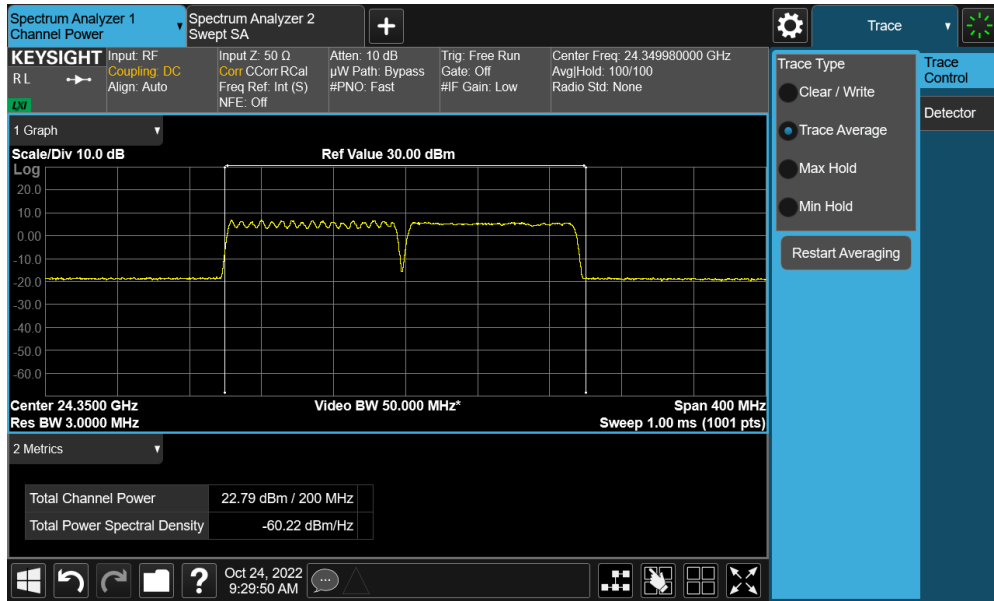


Plot 7-72. N patch EIRP Plot (Band n258-R1 – 50MHz-1CC High Channel DFT-s-OFDM  $\pi/2$  BPSK)



Plot 7-73. N patch EIRP Plot (Band n258-R1 – 100MHz-1CC High Channel DFT-s-OFDM QPSK)

FCC ID: A3LSMS911U		<b>PART 30 MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2209010096-08.A3L	<b>Test Dates:</b> 10/18/2022 – 11/14/2022	<b>EUT Type:</b> Portable Handset	Page 62 of 201



**Plot 7-74. N patch EIRP Plot (Band n258-R1 – 100MHz-2CC Mid Channel DFT-s-OFDM  $\pi/2$  BPSK)**

FCC ID: A3LSMS911U		<b>PART 30 MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset		Page 63 of 201

## Band n258-R2 Beam ID Configurations

Mode	Channel	Beam Polarization	Beam ID	Beam ID Pair
SISO	Low	H	165	-
		V	36	-
	Mid	H	165	-
		V	36	-
	High	H	165	-
		V	36	-
MIMO	Low	2Tx/MIMO	155	27
	Mid	2Tx/MIMO	155	27
	High	2Tx/MIMO	155	27

**Table 7-12. M Patch Worst Case Beam ID**

Mode	Channel	Beam Polarization	Beam ID	Beam ID Pair
SISO	Low	H	158	-
		V	39	-
	Mid	H	158	-
		V	39	-
	High	H	158	-
		V	39	-
MIMO	Low	2Tx/MIMO	159	31
	Mid	2Tx/MIMO	159	31
	High	2Tx/MIMO	159	31

**Table 7-13. N Patch Worst Case Beam ID**

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
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## Band n258-R2 M patch

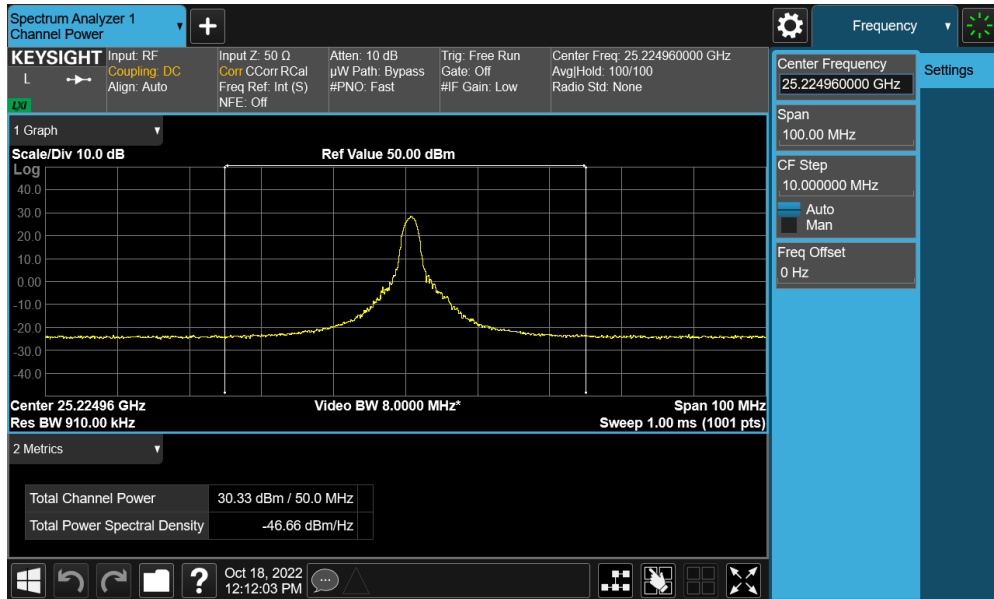
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offset	EIRP [dBm]
50	1	Low	24775.08	DFT-s-OFDM	QPSK	155 + 27	H + V	2Tx	H	74	256	1 / 16	29.24
			24999.96	DFT-s-OFDM	QPSK	155 + 27	H + V	2Tx	H	71	268	1 / 16	29.26
			25224.96	DFT-s-OFDM	QPSK	155 + 27	H + V	2Tx	H	75	266	1 / 16	30.33
		DFT-s-OFDM		QPSK	165	H	SISO	V	54	267	1 / 19	28.92	
		DFT-s-OFDM		QPSK	36	V	SISO	H	84	265	1 / 19	29.38	
		CP-OFDM		QPSK	155 + 27	H + V	MIMO	H	75	266	1 / 16	27.24	
		CP-OFDM		QPSK	165	H	SISO	V	54	267	1 / 16	27.52	
		CP-OFDM		QPSK	36	V	SISO	H	84	265	1 / 16	26.39	
		DFT-s-OFDM		$\pi/2$ BPSK	155 + 27	H + V	2Tx	H	75	266	1 / 16	30.26	
		DFT-s-OFDM		16QAM	155 + 27	H + V	2Tx	H	75	266	1 / 16	28.47	
		DFT-s-OFDM		64QAM	155 + 27	H + V	2Tx	H	75	266	1 / 16	25.24	

Table 7-14. M patch EIRP Data (Band n258-R2 - 50MHz)

Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offset	EIRP [dBm]		
100	1	Low	24800.04	DFT-s-OFDM	$\pi/2$ BPSK	155 + 27	H + V	2Tx	H	73	255	1 / 33	29.21		
			24999.96	DFT-s-OFDM	$\pi/2$ BPSK	155 + 27	H + V	2Tx	H	73	268	1 / 33	29.86		
			25200.00	DFT-s-OFDM	QPSK	155 + 27	H + V	2Tx	H	73	257	1 / 33	30.07		
		DFT-s-OFDM		QPSK	165	H	SISO	V	53	267	1 / 42	29.96			
		DFT-s-OFDM		QPSK	36	V	SISO	H	85	267	1 / 42	29.85			
		CP-OFDM		QPSK	155 + 27	H + V	MIMO	H	73	257	1 / 23	28.61			
		CP-OFDM		QPSK	165	H	SISO	V	53	267	1 / 42	26.77			
		CP-OFDM		QPSK	36	V	SISO	H	85	267	1 / 33	26.74			
		DFT-s-OFDM		$\pi/2$ BPSK	155 + 27	H + V	2Tx	H	73	257	1 / 33	30.26			
		DFT-s-OFDM		16QAM	155 + 27	H + V	2Tx	H	73	257	1 / 42	29.91			
		DFT-s-OFDM		64QAM	155 + 27	H + V	2Tx	H	73	257	1 / 42	27.79			
		100+100		2	High	25150.02	DFT-s-OFDM	QPSK	155 + 27	H + V	2Tx	H	68	262	64 / 0
			DFT-s-OFDM				$\pi/2$ BPSK	155 + 27	H + V	2Tx	H	68	262	64 / 0	24.25
DFT-s-OFDM	16QAM		155 + 27				H + V	2Tx	H	68	262	1 / 42	23.15		
100+100+100	3	High	25100.04	DFT-s-OFDM	64QAM	155 + 27	H + V	2Tx	H	68	262	1 / 42	21.71		
				DFT-s-OFDM	QPSK	155 + 27	H + V	2Tx	H	66	267	64 / 0	24.50		
				DFT-s-OFDM	$\pi/2$ BPSK	155 + 27	H + V	2Tx	H	66	267	64 / 0	24.48		
				DFT-s-OFDM	16QAM	155 + 27	H + V	2Tx	H	66	267	64 / 0	22.41		
DFT-s-OFDM	64QAM	155 + 27	H + V	2Tx	H	66	267	64 / 0	20.42						

Table 7-15. M patch EIRP Data (Band n258-R2 - 100MHz)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset		Page 65 of 201

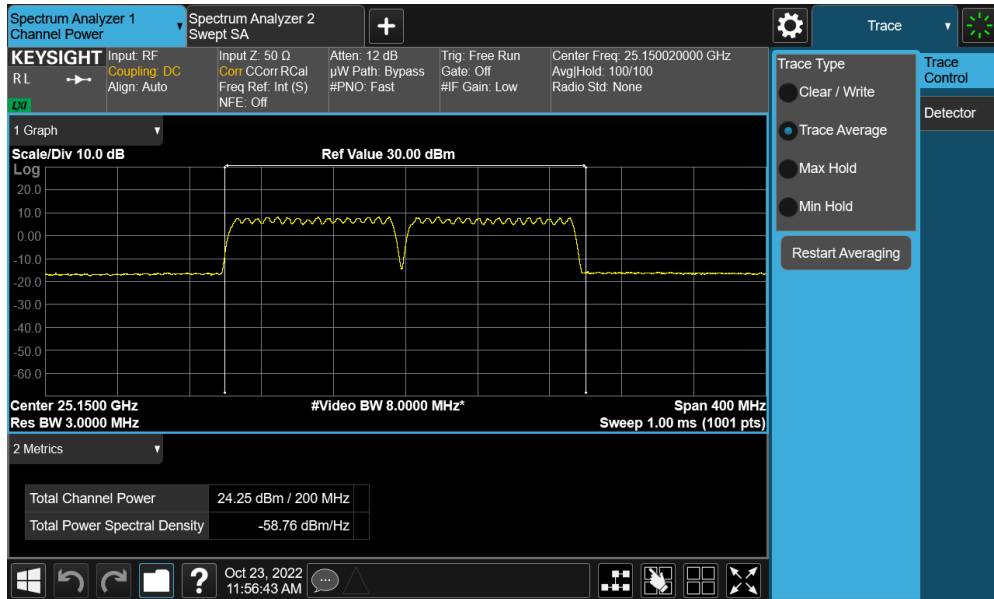


Plot 7-75. M patch EIRP Plot (Band n258-R2 – 50MHz-1CC High Channel DFT-s-OFDM QPSK)

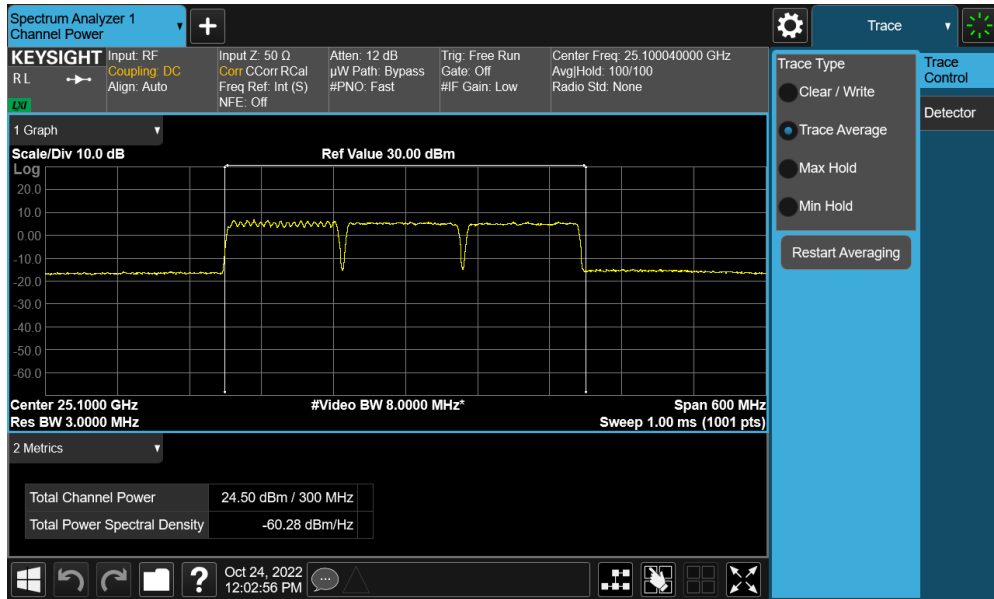


Plot 7-76. M patch EIRP Plot (Band n258-R2 – 100MHz-1CC High Channel DFT-s-OFDM  $\pi/2$  BPSK)

FCC ID: A3LSMS911U	PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset
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Plot 7-77. M patch EIRP Plot (Band n258-R2 – 100MHz-2CC High Channel DFT-s-OFDM  $\pi/2$  BPSK)



Plot 7-78. M patch EIRP Plot (Band n258-R2 – 100MHz-3CC High Channel DFT-s-OFDM QPSK)

FCC ID: A3LSMS911U		<b>PART 30 MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2209010096-08.A3L	<b>Test Dates:</b> 10/18/2022 – 11/14/2022	<b>EUT Type:</b> Portable Handset	Page 67 of 201

## N patch

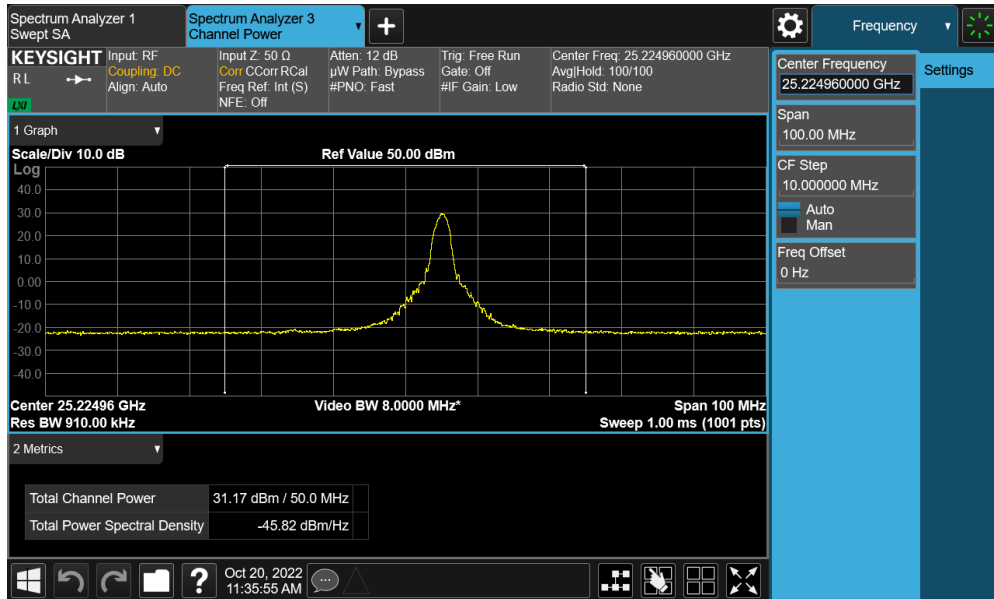
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offset	EIRP [dBm]
50	1	Low	24775.08	DFT-s-OFDM	$\pi/2$ BPSK	159 + 31	H + V	2Tx	H	312	217	1 / 15	30.27
			24999.96	DFT-s-OFDM	$\pi/2$ BPSK	159 + 31	H + V	2Tx	H	287	236	1 / 19	30.57
		High	25224.96	DFT-s-OFDM	QPSK	159 + 31	H + V	2Tx	H	311	221	1 / 19	31.17
				DFT-s-OFDM	QPSK	158	H	SISO	H	0	283	1 / 12	26.42
			DFT-s-OFDM	QPSK	39	V	SISO	H	88	227	1 / 15	28.62	
			CP-OFDM	QPSK	159 + 31	H + V	MIMO	H	311	221	1 / 19	27.91	
			CP-OFDM	QPSK	158	H	SISO	H	0	283	1 / 15	23.89	
			CP-OFDM	QPSK	39	V	SISO	H	88	227	1 / 12	25.48	
			DFT-s-OFDM	$\pi/2$ BPSK	159 + 31	H + V	2Tx	H	311	221	1 / 19	31.15	
			DFT-s-OFDM	16QAM	159 + 31	H + V	2Tx	H	311	221	1 / 19	29.03	
		DFT-s-OFDM	64QAM	159 + 31	H + V	2Tx	H	311	221	1 / 15	25.77		

Table 7-16. N patch EIRP Data (Band n258-R2 - 50MHz)

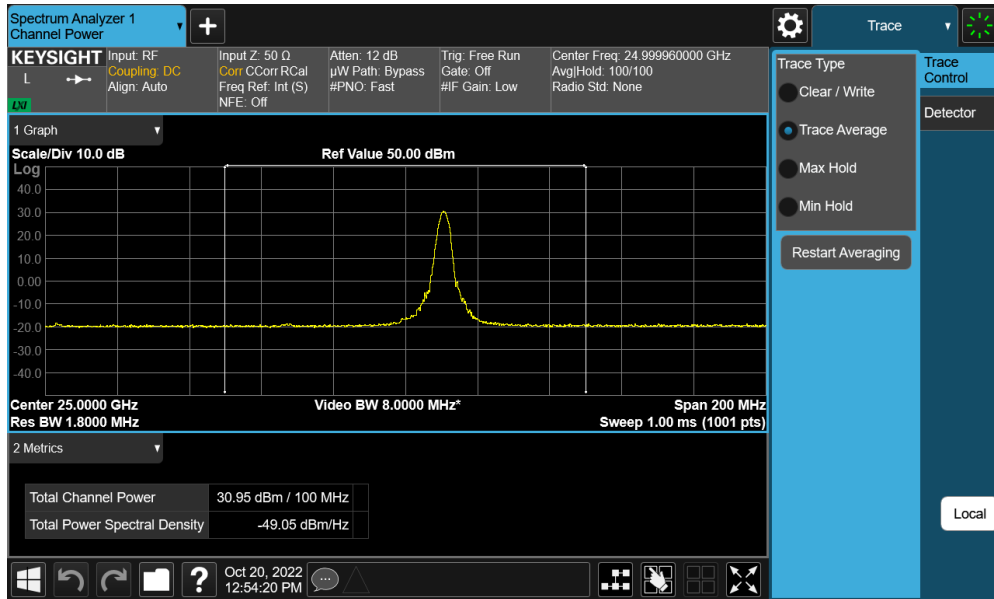
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offset	EIRP [dBm]				
100	1	Low	24800.04	DFT-s-OFDM	$\pi/2$ BPSK	159 + 31	H + V	2Tx	H	310	216	1 / 32	30.01				
			Mid	24999.96	DFT-s-OFDM	QPSK	159 + 31	H + V	2Tx	H	310	219	1 / 40	30.95			
		DFT-s-OFDM		QPSK	158	H	SISO	H	353	84	1 / 32	25.58					
		DFT-s-OFDM		QPSK	39	V	SISO	H	90	227	1 / 40	27.91					
		CP-OFDM		QPSK	159 + 31	H + V	MIMO	H	310	219	1 / 40	27.74					
		CP-OFDM		QPSK	158	H	SISO	H	353	84	1 / 32	24.54					
		CP-OFDM		QPSK	39	V	SISO	H	90	227	1 / 32	24.87					
		DFT-s-OFDM		$\pi/2$ BPSK	159 + 31	H + V	2Tx	H	310	219	1 / 40	30.88					
		DFT-s-OFDM		16QAM	159 + 31	H + V	2Tx	H	310	219	1 / 40	29.17					
		DFT-s-OFDM		64QAM	159 + 31	H + V	2Tx	H	310	219	1 / 40	25.27					
		High		25200.00	DFT-s-OFDM	$\pi/2$ BPSK	159 + 31	H + V	2Tx	H	309	218	1 / 32	30.64			
			DFT-s-OFDM		QPSK	159 + 31	H + V	2Tx	H	317	211	64 / 0	24.76				
			DFT-s-OFDM		$\pi/2$ BPSK	159 + 31	H + V	2Tx	H	317	211	64 / 0	24.73				
		100+100	2	Mid	25000.02	DFT-s-OFDM	16QAM	159 + 31	H + V	2Tx	H	317	211	64 / 0	22.73		
						DFT-s-OFDM	64QAM	159 + 31	H + V	2Tx	H	317	211	64 / 0	20.53		
100+100+100	3					Mid	24999.96	DFT-s-OFDM	QPSK	159 + 31	H + V	2Tx	H	316	209	64 / 0	25.17
								DFT-s-OFDM	$\pi/2$ BPSK	159 + 31	H + V	2Tx	H	317	211	64 / 0	25.14
DFT-s-OFDM	16QAM	159 + 31	H + V	2Tx	H	317	211	64 / 0	23.15								
DFT-s-OFDM	64QAM	159 + 31	H + V	2Tx	H	317	211	64 / 0	21.03								

Table 7-17. N patch EIRP Data (Band n258-R2 - 100MHz)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset		Page 68 of 201

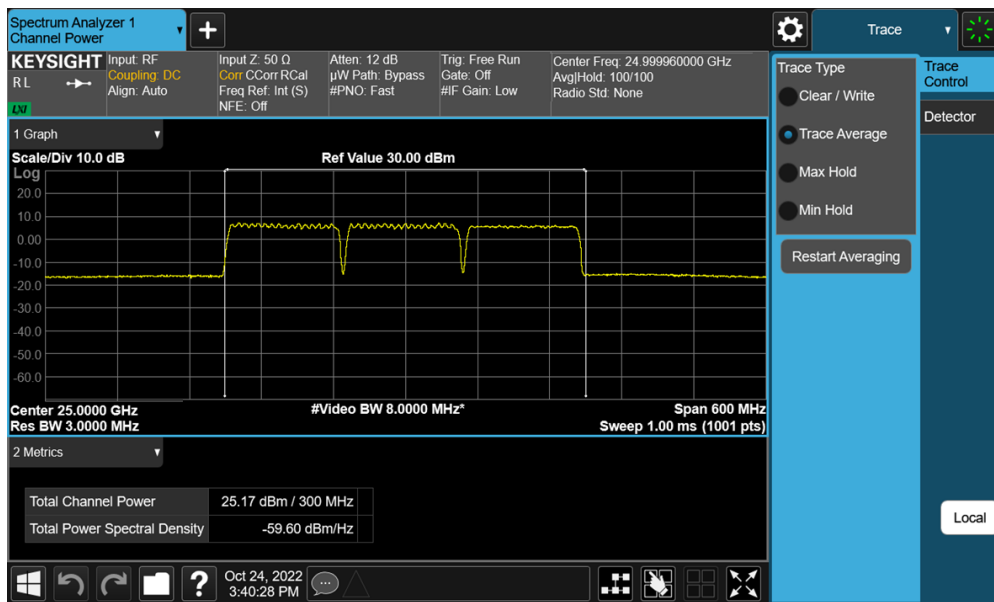
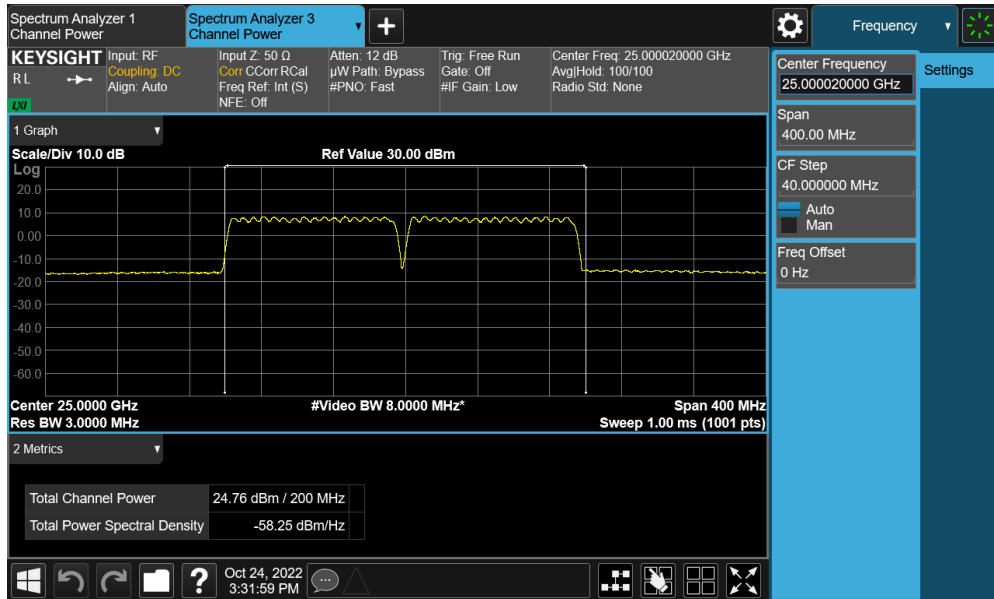


Plot 7-79. N patch EIRP Plot (Band n258-R2 – 50MHz-1CC High Channel DFT-s-OFDM QPSK)



Plot 7-80. N patch EIRP Plot (Band n258-R2 – 100MHz-1CC Mid Channel DFT-s-OFDM QPSK)

FCC ID: A3LSMS911U		<b>PART 30 MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2209010096-08.A3L	<b>Test Dates:</b> 10/18/2022 – 11/14/2022	<b>EUT Type:</b> Portable Handset	Page 69 of 201



FCC ID: A3LSMS911U		<b>PART 30 MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2209010096-08.A3L	<b>Test Dates:</b> 10/18/2022 – 11/14/2022	<b>EUT Type:</b> Portable Handset	Page 70 of 201

## Band n261 Beam ID Configurations

Mode	Channel	Beam Polarization	Beam ID	Beam ID Pair
SISO	Low	H	164	-
		V	36	-
	Mid	H	164	-
		V	36	-
	High	H	164	-
		V	36	-
MIMO	Low	2Tx/MIMO	164	36
	Mid	2Tx/MIMO	164	36
	High	2Tx/MIMO	164	36

**Table 7-18. M Patch Worst Case Beam ID**

Mode	Channel	Beam Polarization	Beam ID	Beam ID Pair
SISO	Low	H	167	-
		V	31	-
	Mid	H	167	-
		V	31	-
	High	H	167	-
		V	31	-
MIMO	Low	2Tx/MIMO	167	39
	Mid	2Tx/MIMO	167	39
	High	2Tx/MIMO	167	39

**Table 7-19. N Patch Worst Case Beam ID**

FCC ID: A3LSMS911U	 <b>PART 30 MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2209010096-08.A3L	<b>Test Dates:</b> 10/18/2022 – 11/14/2022	<b>EUT Type:</b> Portable Handset	Page 71 of 201

## Band n261 M patch

Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offset	EIRP [dBm]
50	1	Low	27525.00	DFT-s-OFDM	$\pi/2$ BPSK	164 + 36	H + V	2Tx	V	86	279	1 / 19	32.10
		Mid	27924.96	DFT-s-OFDM	$\pi/2$ BPSK	164 + 36	H + V	2Tx	V	96	276	1 / 19	32.35
		High	28324.92	DFT-s-OFDM	QPSK	164 + 36	H + V	2Tx	V	96	275	1 / 19	32.66
				DFT-s-OFDM	QPSK	164	H	SISO	H	84	287	1 / 19	28.93
				DFT-s-OFDM	QPSK	36	V	SISO	H	82	268	1 / 16	29.21
				CP-OFDM	QPSK	164 + 36	H + V	MIMO	V	96	275	1 / 12	30.13
				CP-OFDM	QPSK	164	H	SISO	H	84	287	1 / 12	25.79
				CP-OFDM	QPSK	36	V	SISO	H	282	268	1 / 12	26.24
				DFT-s-OFDM	$\pi/2$ BPSK	164 + 36	H + V	2Tx	V	96	275	1 / 12	32.79
				DFT-s-OFDM	16QAM	164 + 36	H + V	2Tx	V	96	275	1 / 12	30.60
				DFT-s-OFDM	64QAM	164 + 36	H + V	2Tx	V	96	275	1 / 12	27.51

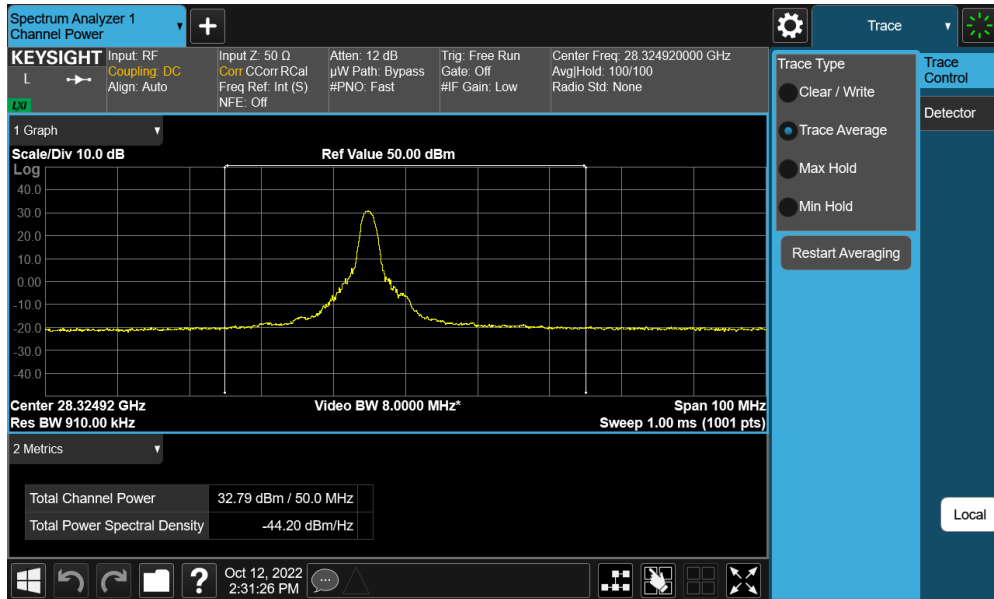
Table 7-20. M patch EIRP Data (Band n261 - 50MHz)

Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offset	EIRP [dBm]
100	1	Low	27550.08	DFT-s-OFDM	$\pi/2$ BPSK	164 + 36	H + V	2Tx	V	79	271	1 / 33	32.40
		Mid	27924.96	DFT-s-OFDM	QPSK	164 + 36	H + V	2Tx	V	81	271	1 / 33	32.37
		High	28299.96	DFT-s-OFDM	QPSK	164 + 36	H + V	2Tx	V	79	271	1 / 33	32.18
				DFT-s-OFDM	QPSK	164	H	SISO	H	81	271	1 / 42	28.56
				DFT-s-OFDM	QPSK	36	V	SISO	H	84	267	1 / 23	29.28
				CP-OFDM	QPSK	164 + 36	H + V	MIMO	V	79	271	1 / 33	30.90
				CP-OFDM	QPSK	164	H	SISO	H	81	271	1 / 42	25.33
				CP-OFDM	QPSK	36	V	SISO	H	84	267	1 / 33	26.24
				DFT-s-OFDM	$\pi/2$ BPSK	164 + 36	H + V	2Tx	V	79	271	1 / 33	32.43
				DFT-s-OFDM	16QAM	164 + 36	H + V	2Tx	V	79	271	1 / 33	31.90
				DFT-s-OFDM	64QAM	164 + 36	H + V	2Tx	V	79	271	1 / 33	29.19

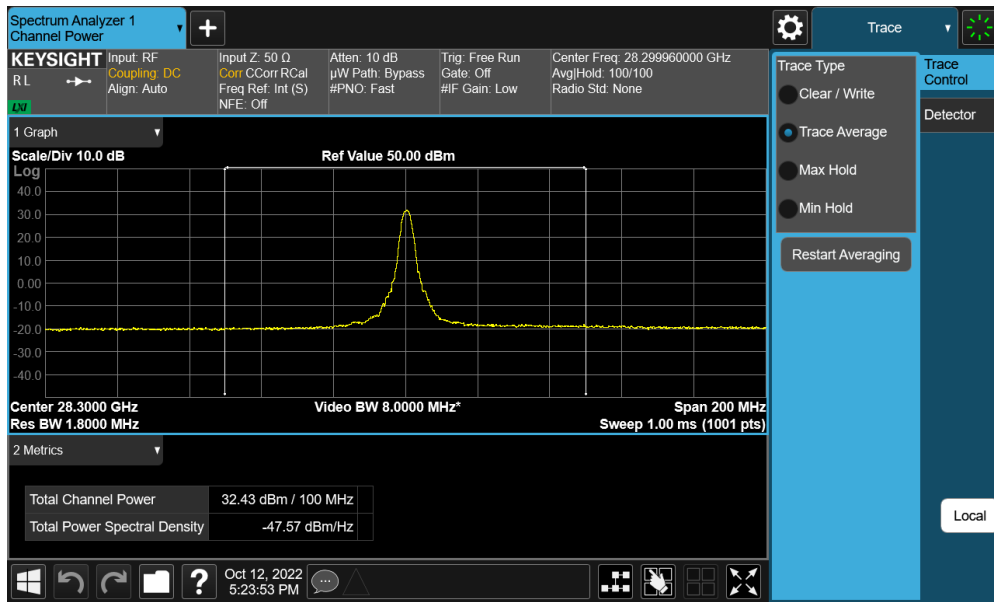
Table 7-21. M patch EIRP Data (Band n261 - 100MHz)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset		Page 72 of 201



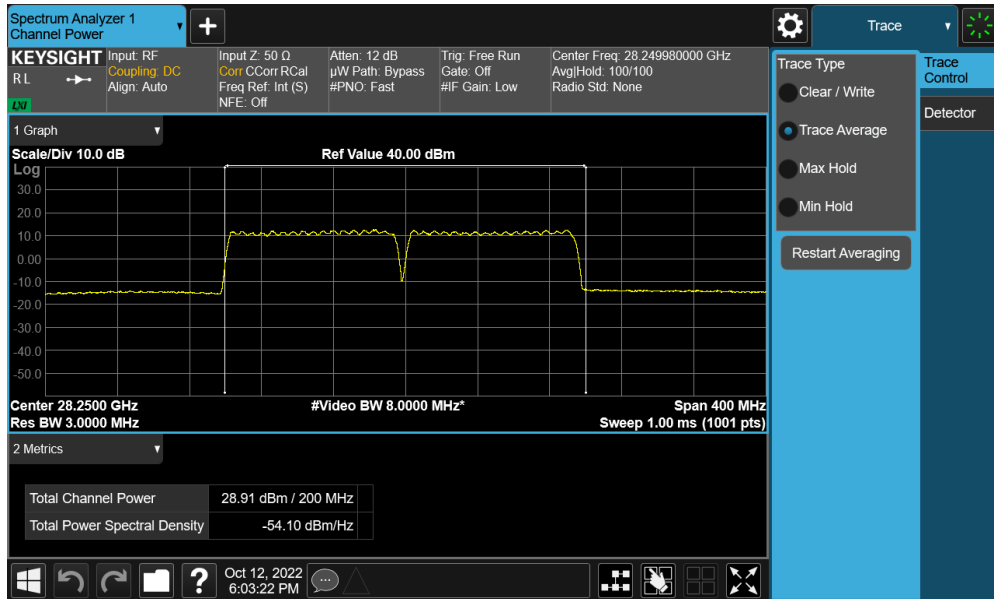


Plot 7-83. M patch EIRP Plot (Band n261 – 50MHz-1CC High Channel DFT-s-OFDM  $\pi/2$  BPSK)

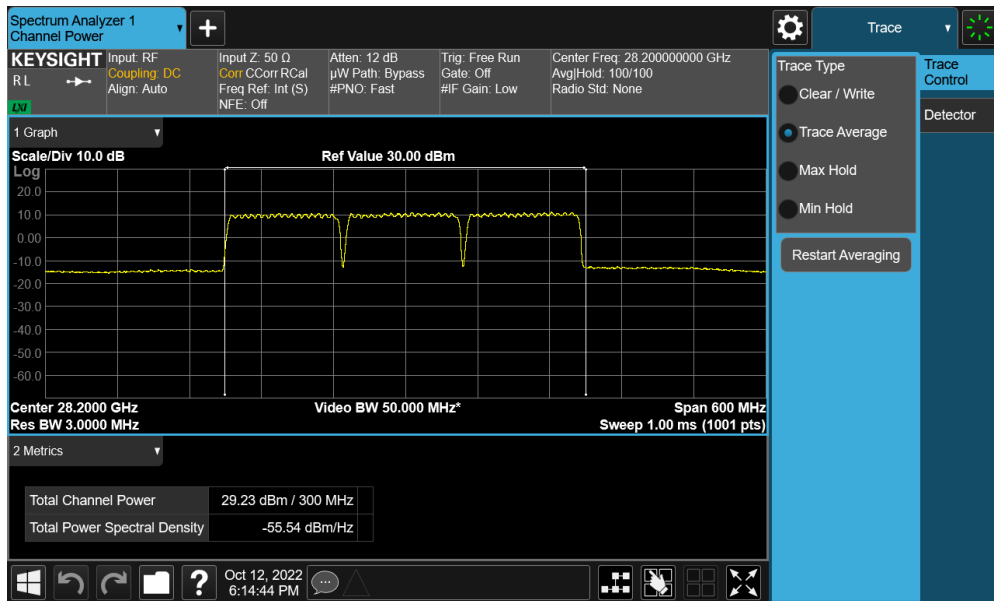


Plot 7-84. M patch EIRP Plot (Band n261 – 100MHz-1CC High Channel DFT-s-OFDM  $\pi/2$  BPSK)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset		Page 73 of 201

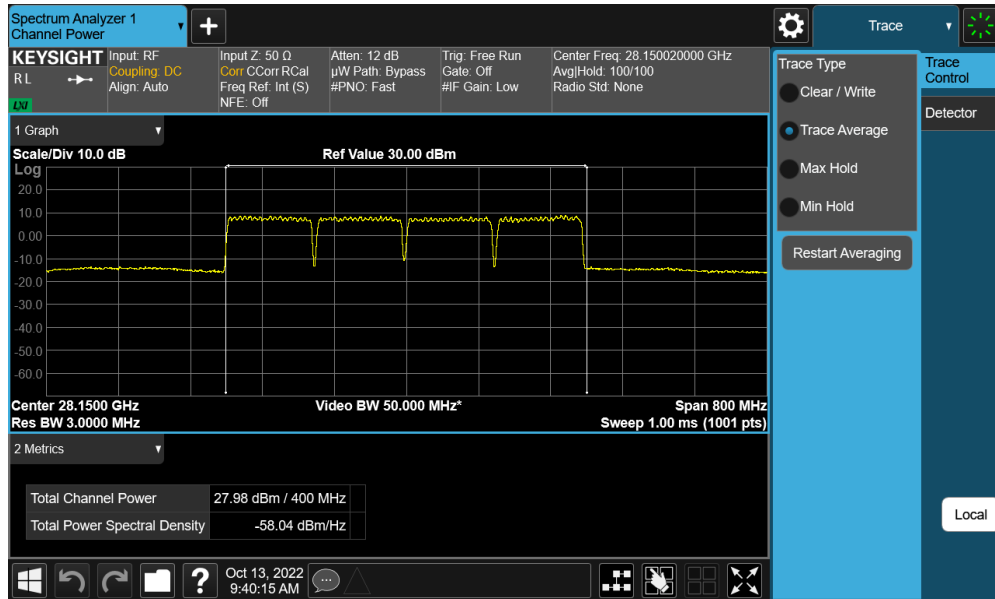


Plot 7-85. M patch EIRP Plot (Band n261 – 100MHz-2CC High Channel DFT-s-OFDM QPSK)



Plot 7-86. M patch EIRP Plot (Band n261 – 100MHz-3CC High Channel DFT-s-OFDM QPSK)

FCC ID: A3LSMS911U	PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset
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**Plot 7-87. M patch EIRP Plot (Band n261 – 100MHz-4CC High Channel DFT-s-OFDM  $\pi/2$  BPSK)**

FCC ID: A3LSMS911U		<b>PART 30 MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset		Page 75 of 201

### N patch

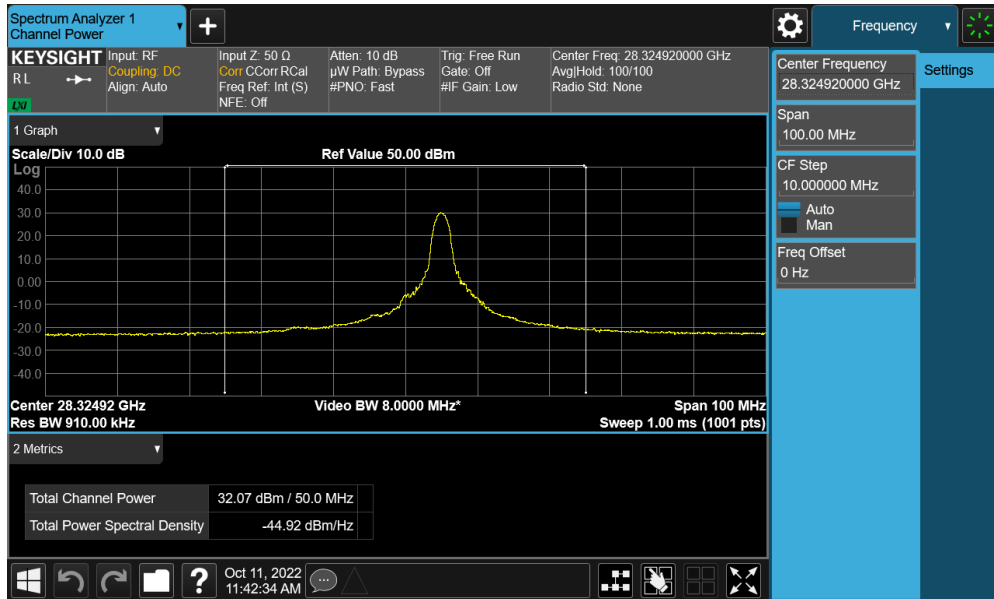
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offset	EIRP [dBm]
50	1	Low	27525.00	DFT-s-OFDM	$\pi/2$ BPSK	167 + 39	H + V	2Tx	H	10	282	1 / 16	29.87
		Mid	27924.96	DFT-s-OFDM	QPSK	167 + 39	H + V	2Tx	H	14	268	1 / 12	31.63
		High	28324.92	DFT-s-OFDM	QPSK	167 + 39	H + V	2Tx	H	18	273	1 / 19	32.07
				DFT-s-OFDM	QPSK	167	H	SISO	V	8	268	1 / 19	30.29
			DFT-s-OFDM	QPSK	31	V	SISO	H	24	278	1 / 19	31.56	
			CP-OFDM	QPSK	167 + 39	H + V	MIMO	H	18	273	1 / 19	28.60	
			CP-OFDM	QPSK	167	H	SISO	V	8	268	1 / 19	27.10	
			CP-OFDM	QPSK	31	V	SISO	H	24	278	1 / 19	28.45	
			DFT-s-OFDM	$\pi/2$ BPSK	167 + 39	H + V	2Tx	H	18	273	1 / 19	31.97	
			DFT-s-OFDM	16QAM	167 + 39	H + V	2Tx	H	18	273	1 / 19	30.21	
DFT-s-OFDM	64QAM	167 + 39	H + V	2Tx	H	18	273	1 / 19	26.64				

Table 7-22. N patch EIRP Data (Band n261 - 50MHz)

Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offset	EIRP [dBm]		
100	1	Low	27550.08	DFT-s-OFDM	$\pi/2$ BPSK	167 + 39	H + V	2Tx	H	16	279	1 / 33	31.51		
		Mid	27924.96	DFT-s-OFDM	$\pi/2$ BPSK	167 + 39	H + V	2Tx	H	9	270	1 / 33	29.49		
		High	28299.96	DFT-s-OFDM	QPSK	167 + 39	H + V	2Tx	H	10	247	1 / 33	31.65		
				DFT-s-OFDM	QPSK	167	H	SISO	V	14	265	1 / 42	28.91		
			DFT-s-OFDM	QPSK	31	V	SISO	H	359	273	1 / 42	30.75			
			CP-OFDM	QPSK	167 + 39	H + V	MIMO	H	10	247	1 / 33	28.53			
			CP-OFDM	QPSK	167	H	SISO	V	14	265	1 / 42	26.02			
			CP-OFDM	QPSK	31	V	SISO	H	359	273	1 / 42	27.40			
			DFT-s-OFDM	$\pi/2$ BPSK	167 + 39	H + V	2Tx	H	10	265	1 / 33	31.67			
			DFT-s-OFDM	16QAM	167 + 39	H + V	2Tx	H	10	265	1 / 33	29.48			
			DFT-s-OFDM	64QAM	167 + 39	H + V	2Tx	H	10	265	1 / 33	26.48			
			100+100	2	Low	27600.06	DFT-s-OFDM	QPSK	167 + 39	H + V	2Tx	H	16	279	64 / 0
		Mid			27925.02	DFT-s-OFDM	QPSK	167 + 39	H + V	2Tx	H	9	270	64 / 0	27.28
High	28249.98	DFT-s-OFDM			QPSK	167 + 39	H + V	2Tx	H	5	267	64 / 0	27.75		
		DFT-s-OFDM			$\pi/2$ BPSK	167 + 39	H + V	2Tx	H	5	267	64 / 0	27.61		
	DFT-s-OFDM	16QAM			167 + 39	H + V	2Tx	H	5	267	64 / 0	26.15			
	DFT-s-OFDM	64QAM			167 + 39	H + V	2Tx	H	5	267	64 / 0	23.29			
100+100+100	3	Low	27650.04	DFT-s-OFDM	QPSK	167 + 39	H + V	2Tx	H	0	280	64 / 0	26.23		
		Mid	27924.96	DFT-s-OFDM	QPSK	167 + 39	H + V	2Tx	H	23	270	64 / 0	26.69		
		High	28200.00	DFT-s-OFDM	QPSK	167 + 39	H + V	2Tx	H	17	268	64 / 0	27.07		
				DFT-s-OFDM	$\pi/2$ BPSK	167 + 39	H + V	2Tx	H	17	268	64 / 0	27.07		
			DFT-s-OFDM	16QAM	167 + 39	H + V	2Tx	H	17	268	64 / 0	24.99			
			DFT-s-OFDM	64QAM	167 + 39	H + V	2Tx	H	17	268	64 / 0	22.96			
100+100+100+100	4	Low	27700.02	DFT-s-OFDM	QPSK	167 + 39	H + V	2Tx	H	5	279	64 / 0	26.08		
		Mid	27925.02	DFT-s-OFDM	QPSK	167 + 39	H + V	2Tx	H	15	274	64 / 0	26.09		
		High	28150.02	DFT-s-OFDM	QPSK	167 + 39	H + V	2Tx	H	8	275	64 / 0	26.12		
				DFT-s-OFDM	$\pi/2$ BPSK	167 + 39	H + V	2Tx	H	8	275	64 / 0	26.08		
			DFT-s-OFDM	16QAM	167 + 39	H + V	2Tx	H	8	275	64 / 0	23.87			
			DFT-s-OFDM	64QAM	167 + 39	H + V	2Tx	H	8	275	64 / 0	21.81			

Table 7-23. N patch EIRP Data (Band n261 - 100MHz)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset		Page 76 of 201

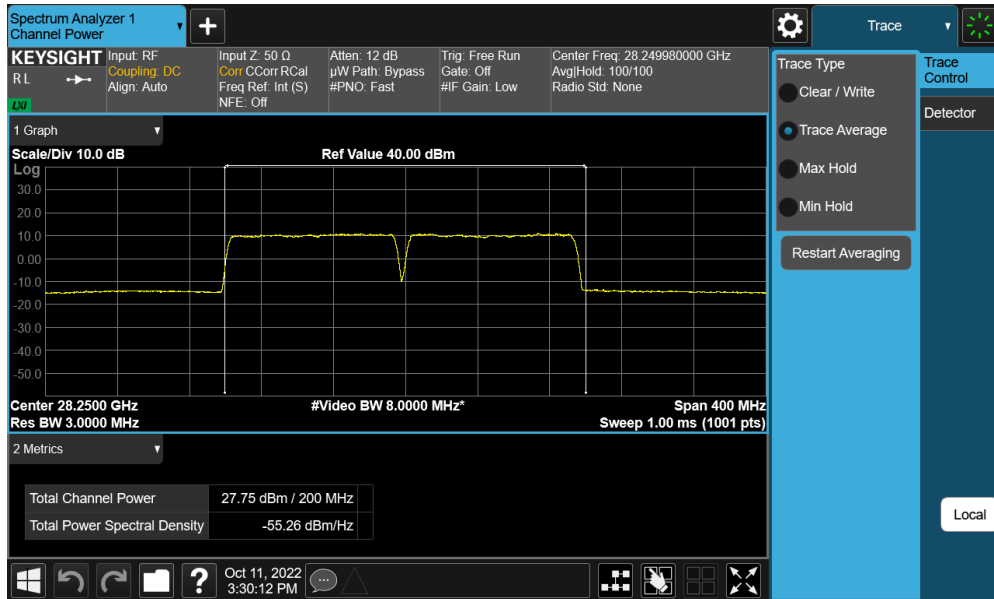


Plot 7-88. N patch EIRP Plot (Band n261 – 50MHz-1CC High Channel DFT-s-OFDM QPSK)

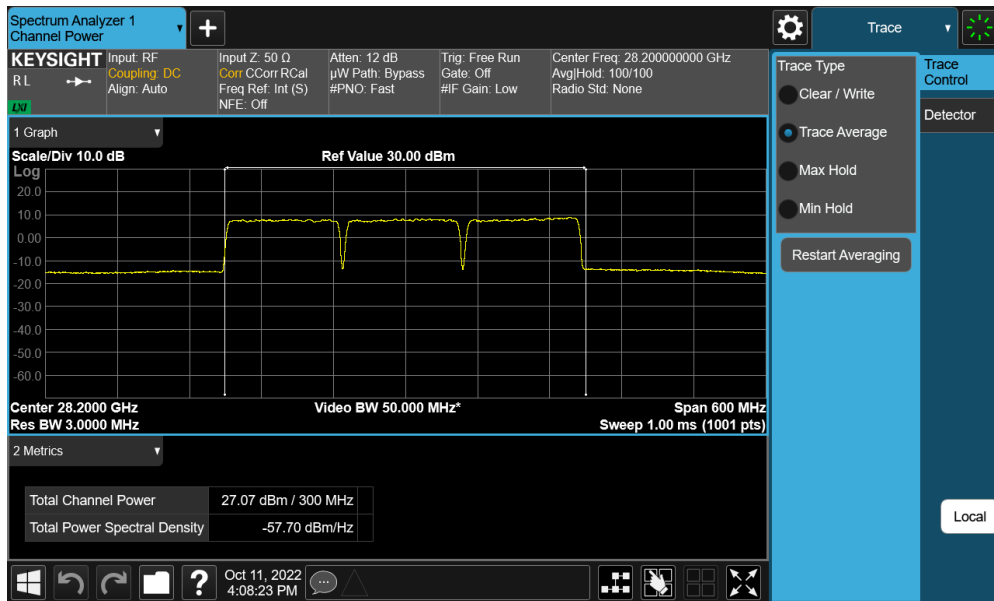


Plot 7-89. N patch EIRP Plot (Band n261 – 100MHz-1CC High Channel DFT-s-OFDM  $\pi/2$  BPSK)

FCC ID: A3LSMS911U		<b>PART 30 MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2209010096-08.A3L	<b>Test Dates:</b> 10/18/2022 – 11/14/2022	<b>EUT Type:</b> Portable Handset	Page 77 of 201

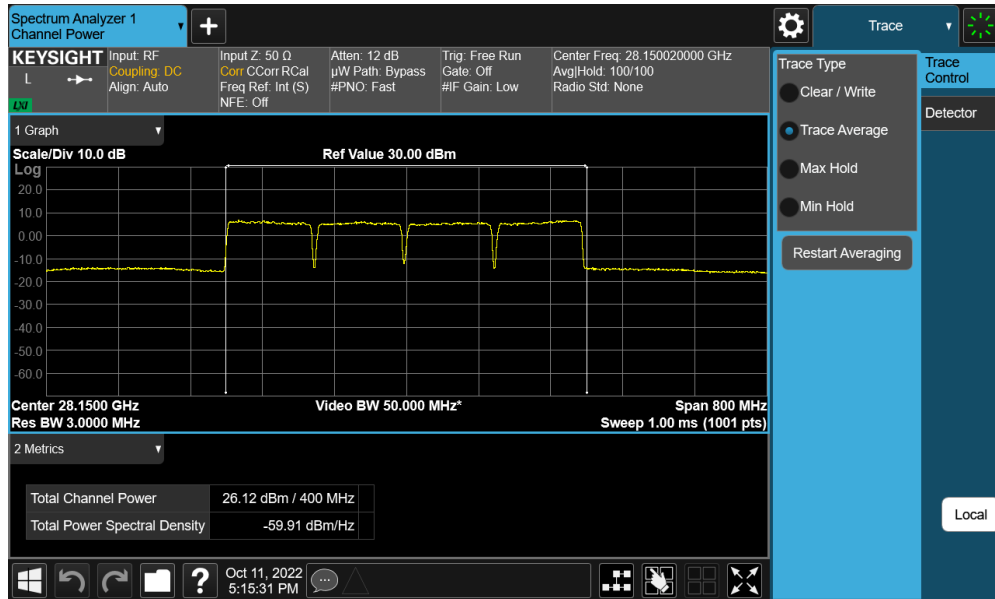


Plot 7-90. N patch EIRP Plot (Band n261 – 100MHz-2CC High Channel DFT-s-OFDM QPSK)



Plot 7-91. N patch EIRP Plot (Band n261 – 100MHz-3CC High Channel DFT-s-OFDM QPSK)

FCC ID: A3LSMS911U		<b>PART 30 MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2209010096-08.A3L	<b>Test Dates:</b> 10/18/2022 – 11/14/2022	<b>EUT Type:</b> Portable Handset	Page 78 of 201



Plot 7-92. N patch EIRP Plot (Band n261 – 100MHz-4CC High Channel DFT-s-OFDM QPSK)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset		Page 79 of 201

## Band n260 Beam ID Configurations

Mode	Channel	Beam Polarization	Beam ID	Beam ID Pair
SISO	Low	H	154	-
		V	37	-
	Mid	H	154	-
		V	37	-
	High	H	154	-
		V	37	-
MIMO	Low	2Tx/MIMO	154	26
	Mid	2Tx/MIMO	154	26
	High	2Tx/MIMO	154	26

**Table 7-24. M Patch Worst Case Beam ID**

Mode	Channel	Beam Polarization	Beam ID	Beam ID Pair
SISO	Low	H	158	-
		V	39	-
	Mid	H	158	-
		V	39	-
	High	H	158	-
		V	39	-
MIMO	Low	2Tx/MIMO	158	30
	Mid	2Tx/MIMO	167	39
	High	2Tx/MIMO	158	30

**Table 7-25. N Patch Worst Case Beam ID**

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset		Page 80 of 201



## Band n260 M patch

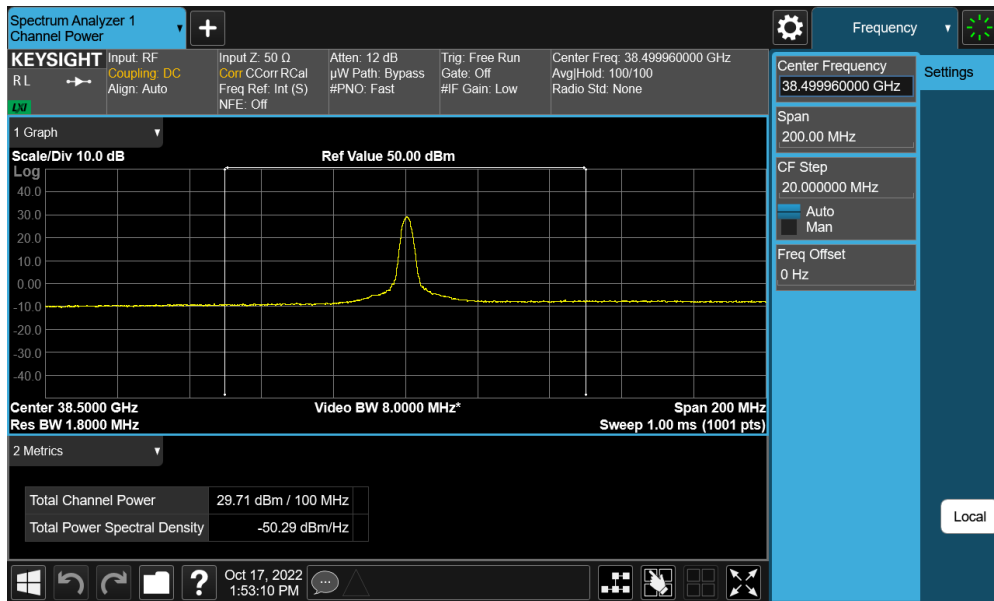
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offset	EIRP [dBm]
50	1	Low	37025.04	DFT-s-OFDM	$\pi/2$ BPSK	154 + 26	H + V	2Tx	H	289	266	1 / 12	<b>27.49</b>
			38499.96	DFT-s-OFDM	QPSK	154 + 26	H + V	2Tx	V	229	89	1 / 19	30.09
		Mid	DFT-s-OFDM	QPSK	154	H	SISO	H	88	251	1 / 19	29.59	
			DFT-s-OFDM	QPSK	37	V	SISO	H	294	239	1 / 19	29.28	
			CP-OFDM	QPSK	154 + 26	H + V	MIMO	V	229	89	1 / 19	26.99	
			CP-OFDM	QPSK	154	H	SISO	H	88	251	1 / 19	26.70	
			CP-OFDM	QPSK	37	V	SISO	H	294	239	1 / 12	26.37	
			DFT-s-OFDM	$\pi/2$ BPSK	154 + 26	H + V	2Tx	V	229	89	1 / 12	<b>30.24</b>	
			DFT-s-OFDM	16QAM	154 + 26	H + V	2Tx	V	229	89	1 / 12	27.99	
			DFT-s-OFDM	64QAM	154 + 26	H + V	2Tx	V	229	89	1 / 19	25.37	
			DFT-s-OFDM	QPSK	154 + 26	H + V	2Tx	H	287	279	1 / 16	<b>29.21</b>	
		High	39975.00	DFT-s-OFDM	QPSK	154 + 26	H + V	2Tx	H	287	279	1 / 16	<b>29.21</b>

**Table 7-26. M patch EIRP Data (Band n260 - 50MHz)**

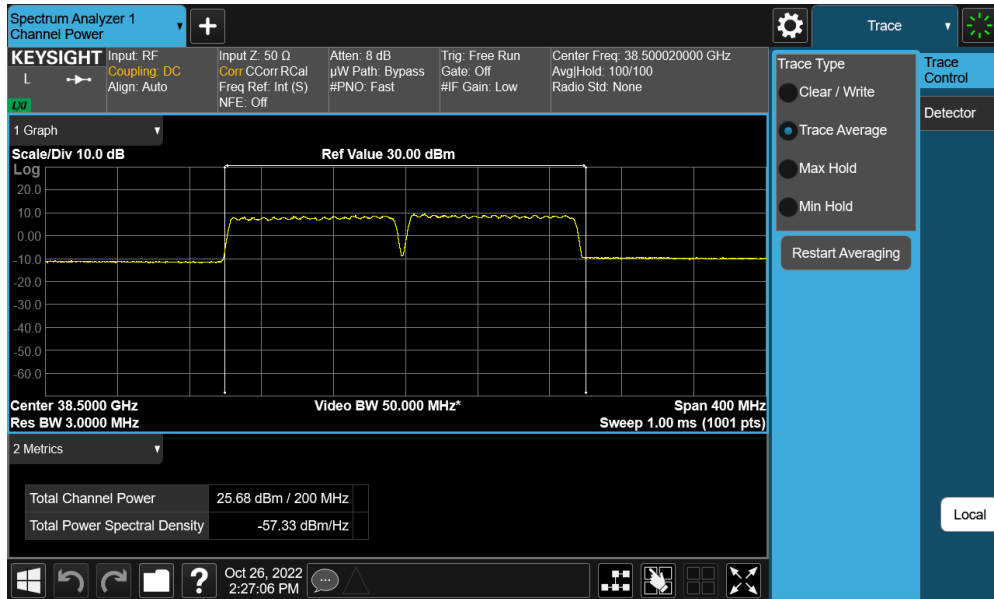
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offset	EIRP [dBm]
100	1	Low	37050.00	DFT-s-OFDM	$\pi/2$ BPSK	154 + 26	H + V	2Tx	H	302	276	1 / 33	<b>29.39</b>
			38499.96	DFT-s-OFDM	QPSK	154 + 26	H + V	2Tx	V	286	279	1 / 33	29.65
		Mid	DFT-s-OFDM	QPSK	154	H	SISO	H	82	232	1 / 33	29.05	
			DFT-s-OFDM	QPSK	37	V	SISO	H	294	239	1 / 42	29.22	
			CP-OFDM	QPSK	154 + 26	H + V	MIMO	V	286	279	1 / 33	26.64	
			CP-OFDM	QPSK	154	H	SISO	H	82	232	1 / 42	26.10	
			CP-OFDM	QPSK	37	V	SISO	H	294	239	1 / 33	26.06	
			DFT-s-OFDM	$\pi/2$ BPSK	154 + 26	H + V	2Tx	V	286	279	1 / 33	<b>29.71</b>	
			DFT-s-OFDM	16QAM	154 + 26	H + V	2Tx	V	286	279	1 / 33	27.56	
			DFT-s-OFDM	64QAM	154 + 26	H + V	2Tx	V	286	279	1 / 33	24.47	
			DFT-s-OFDM	$\pi/2$ BPSK	154 + 26	H + V	2Tx	H	282	280	1 / 33	<b>28.22</b>	
		High	39949.92	DFT-s-OFDM	$\pi/2$ BPSK	154 + 26	H + V	2Tx	H	300	272	64 / 0	<b>23.08</b>
		100+100	2	Low	37099.98	DFT-s-OFDM	$\pi/2$ BPSK	154 + 26	H + V	2Tx	H	300	272
38500.02	DFT-s-OFDM				QPSK	154 + 26	H + V	2Tx	H	281	281	64 / 0	25.62
Mid	DFT-s-OFDM			QPSK	154 + 26	H + V	2Tx	H	281	281	64 / 0	25.62	
	DFT-s-OFDM			$\pi/2$ BPSK	154 + 26	H + V	2Tx	H	281	281	64 / 0	<b>25.68</b>	
High	39899.94	DFT-s-OFDM	$\pi/2$ BPSK	154 + 26	H + V	2Tx	H	278	273	64 / 0	<b>23.28</b>		
100+100+100	3	Low	37149.96	DFT-s-OFDM	QPSK	154 + 26	H + V	2Tx	H	290	276	64 / 0	<b>23.73</b>
			38499.96	DFT-s-OFDM	QPSK	154 + 26	H + V	2Tx	H	282	271	64 / 0	25.88
		Mid	DFT-s-OFDM	$\pi/2$ BPSK	154 + 26	H + V	2Tx	H	282	271	64 / 0	<b>25.88</b>	
			DFT-s-OFDM	16QAM	154 + 26	H + V	2Tx	H	282	271	64 / 0	24.39	
			DFT-s-OFDM	64QAM	154 + 26	H + V	2Tx	H	282	271	64 / 0	22.56	
			DFT-s-OFDM	QPSK	154 + 26	H + V	2Tx	H	289	275	64 / 0	<b>23.58</b>	
High	39849.96	DFT-s-OFDM	QPSK	154 + 26	H + V	2Tx	H	289	275	64 / 0	<b>23.58</b>		
100+100+100+100	4	Low	37199.94	DFT-s-OFDM	$\pi/2$ BPSK	154 + 26	H + V	2Tx	H	289	276	64 / 0	<b>23.58</b>
			38500.02	DFT-s-OFDM	QPSK	154 + 26	H + V	2Tx	H	293	274	64 / 0	<b>25.32</b>
		Mid	DFT-s-OFDM	$\pi/2$ BPSK	154 + 26	H + V	2Tx	H	293	274	64 / 0	25.30	
			DFT-s-OFDM	16QAM	154 + 26	H + V	2Tx	H	293	274	64 / 0	23.80	
			DFT-s-OFDM	64QAM	154 + 26	H + V	2Tx	H	293	274	64 / 0	22.05	
			DFT-s-OFDM	QPSK	154 + 26	H + V	2Tx	H	280	257	64 / 0	<b>25.27</b>	
		High	39799.98	DFT-s-OFDM	QPSK	154 + 26	H + V	2Tx	H	280	257	64 / 0	<b>25.27</b>

**Table 7-27. M patch EIRP Data (Band n260 - 100MHz)**

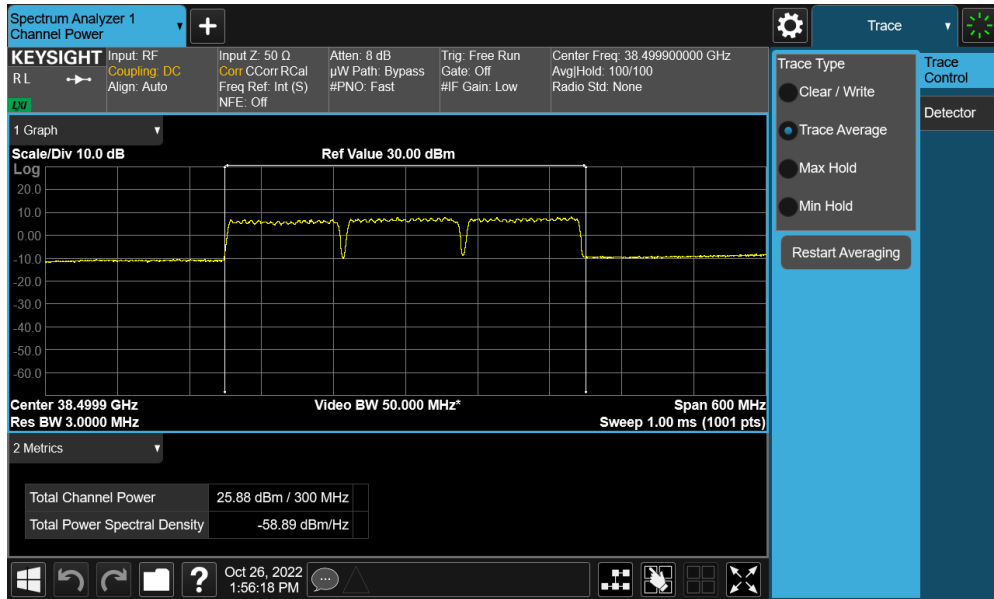
FCC ID: A3LSMS911U		<b>PART 30 MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset		Page 81 of 201



FCC ID: A3LSMS911U		<b>PART 30 MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2209010096-08.A3L	<b>Test Dates:</b> 10/18/2022 – 11/14/2022	<b>EUT Type:</b> Portable Handset	Page 82 of 201

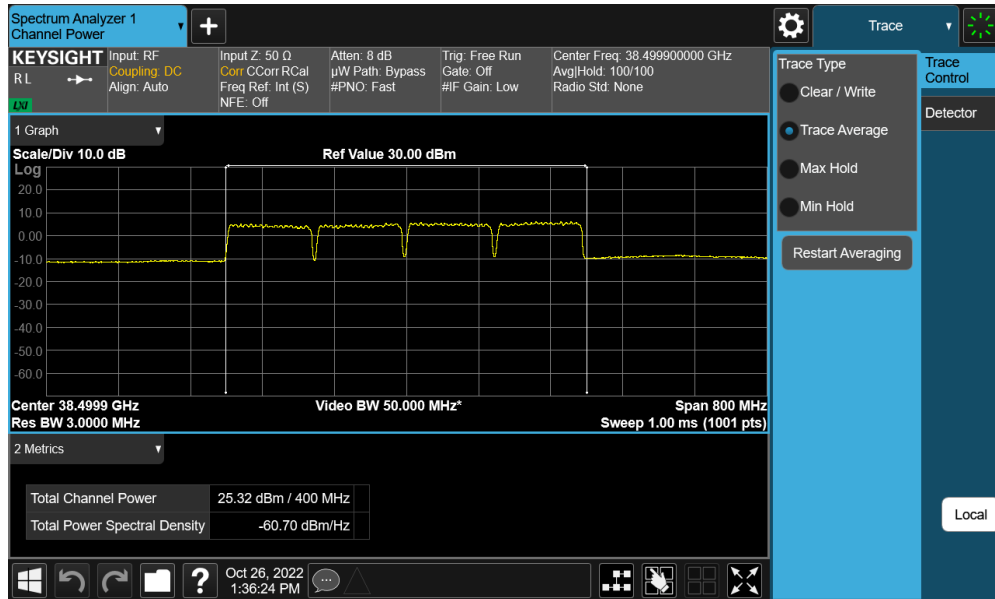


Plot 7-95. M patch EIRP Plot (Band n260 – 100MHz-2CC Mid Channel DFT-s-OFDM  $\pi/2$  BPSK)



Plot 7-96. M patch EIRP Plot (Band n260 – 100MHz-3CC Mid Channel DFT-s-OFDM  $\pi/2$  BPSK)

FCC ID: A3LSMS911U	PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset
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**Plot 7-97. M match EIRP Plot (Band n260 – 100MHz-4CC Mid Channel DFT-s-OFDM QPSK)**

FCC ID: A3LSMS911U	PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset
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### N patch

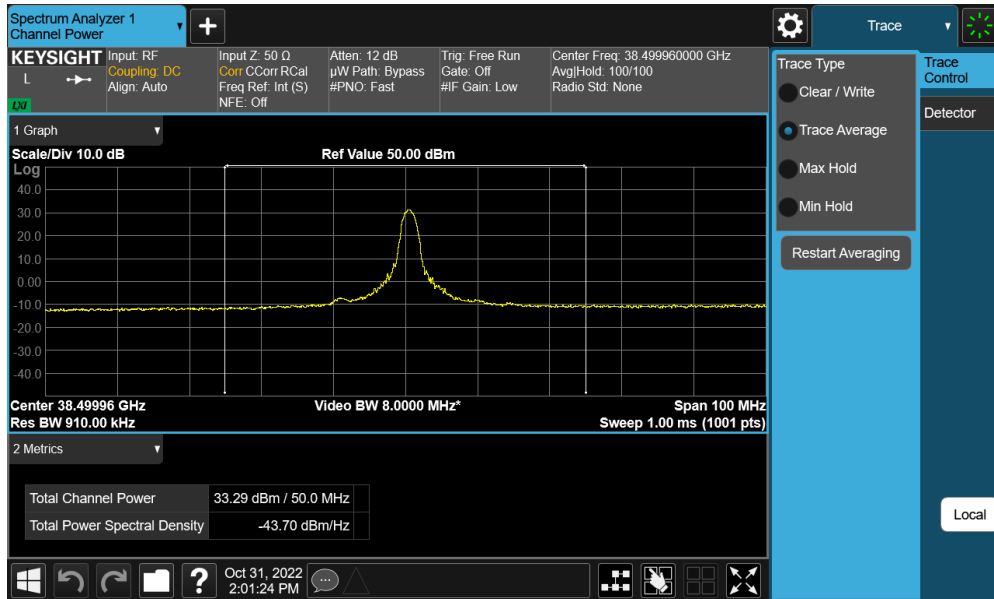
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offset	EIRP [dBm]
50	1	Low	37025.04	DFT-s-OFDM	$\pi/2$ BPSK	158 + 30	H + V	2Tx	V	46	199	1 / 16	31.39
			38499.96	DFT-s-OFDM	QPSK	167 + 39	H + V	2Tx	H	258	273	1 / 16	33.29
		Mid	DFT-s-OFDM	QPSK	158	H	SISO	H	69	218	1 / 16	30.19	
			DFT-s-OFDM	QPSK	39	V	SISO	H	352	94	1 / 16	32.27	
			CP-OFDM	QPSK	167 + 39	H + V	MIMO	H	258	273	1 / 16	30.03	
			CP-OFDM	QPSK	158	H	SISO	H	69	218	1 / 13	28.32	
			CP-OFDM	QPSK	39	V	SISO	H	352	94	1 / 16	29.31	
			DFT-s-OFDM	$\pi/2$ BPSK	167 + 39	H + V	2Tx	H	258	273	1 / 16	33.16	
			DFT-s-OFDM	16QAM	167 + 39	H + V	2Tx	H	258	273	1 / 17	31.83	
			DFT-s-OFDM	64QAM	167 + 39	H + V	2Tx	H	258	273	1 / 17	29.15	
			DFT-s-OFDM	$\pi/2$ BPSK	158 + 30	H + V	2Tx	V	47	198	1 / 16	32.19	
		High	39975.00	DFT-s-OFDM	$\pi/2$ BPSK	158 + 30	H + V	2Tx	V	47	198	1 / 16	32.19

Table 7-28. N patch EIRP Data (Band n260 - 50MHz)

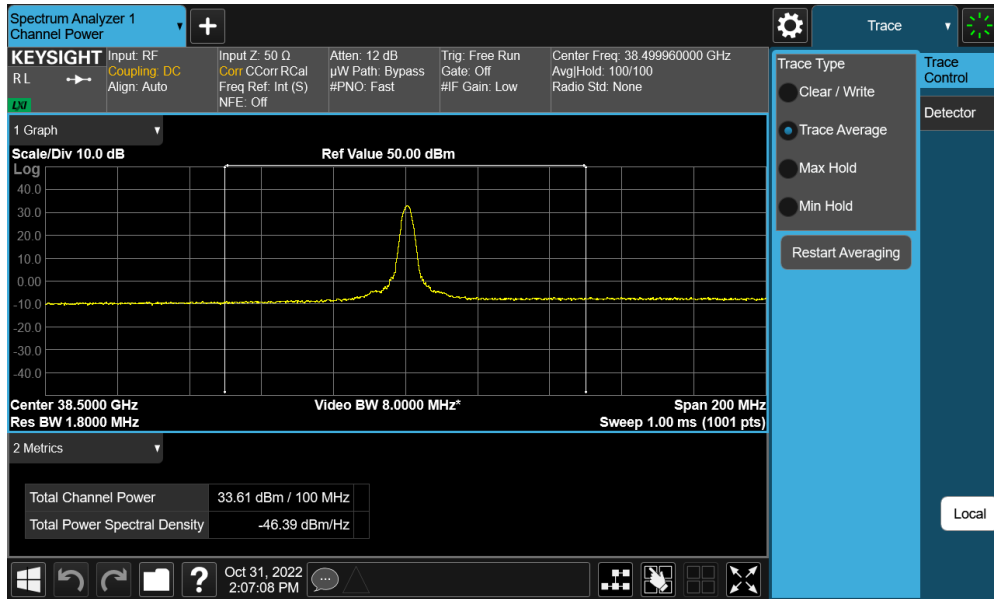
Bandwidth [MHz]	CCs Active	Channel	Frequency [MHz]	Transmission Scheme	Modulation	Beam ID	Beam Pol.	Ant. Div.	Ant. Pol. [H/V]	Positioner Roll [degrees]	Turntable Azimuth [degrees]	RB Size/Offset	EIRP [dBm]
100	1	Low	37050.00	DFT-s-OFDM	QPSK	158 + 30	H + V	2Tx	V	40	201	1 / 33	30.88
			38499.96	DFT-s-OFDM	QPSK	167 + 39	H + V	2Tx	H	358	273	1 / 33	33.44
		Mid	DFT-s-OFDM	QPSK	158	H	SISO	H	70	215	1 / 33	30.30	
			DFT-s-OFDM	QPSK	39	V	SISO	H	352	94	1 / 33	32.35	
			CP-OFDM	QPSK	167 + 39	H + V	MIMO	H	358	273	1 / 23	30.42	
			CP-OFDM	QPSK	158	H	SISO	H	70	215	1 / 42	27.20	
			CP-OFDM	QPSK	39	V	SISO	H	352	94	1 / 42	29.20	
			DFT-s-OFDM	$\pi/2$ BPSK	167 + 39	H + V	2Tx	H	358	273	1 / 33	33.61	
			DFT-s-OFDM	16QAM	167 + 39	H + V	2Tx	H	358	273	1 / 33	31.43	
			DFT-s-OFDM	64QAM	167 + 39	H + V	2Tx	H	358	273	1 / 33	28.31	
			DFT-s-OFDM	$\pi/2$ BPSK	158 + 30	H + V	2Tx	V	51	200	1 / 32	31.99	
		High	39949.92	DFT-s-OFDM	$\pi/2$ BPSK	158 + 30	H + V	2Tx	V	39	201	64 / 0	23.77
		100+100	2	Low	37099.98	DFT-s-OFDM	$\pi/2$ BPSK	158 + 30	H + V	2Tx	V	39	201
38500.02	DFT-s-OFDM				QPSK	167 + 39	H + V	2Tx	H	6	275	64 / 0	28.40
Mid	DFT-s-OFDM			$\pi/2$ BPSK	167 + 39	H + V	2Tx	H	6	275	64 / 0	28.44	
	DFT-s-OFDM			16QAM	167 + 39	H + V	2Tx	H	6	275	64 / 0	26.93	
	DFT-s-OFDM			64QAM	167 + 39	H + V	2Tx	H	6	275	64 / 0	25.04	
	DFT-s-OFDM			$\pi/2$ BPSK	158 + 30	H + V	2Tx	V	50	200	64 / 0	24.65	
High	39899.94	DFT-s-OFDM	$\pi/2$ BPSK	158 + 30	H + V	2Tx	V	32	199	64 / 0	23.93		
100+100+100	3	Low	37149.96	DFT-s-OFDM	$\pi/2$ BPSK	158 + 30	H + V	2Tx	V	32	199	64 / 0	23.93
			38499.96	DFT-s-OFDM	QPSK	167 + 39	H + V	2Tx	H	6	273	64 / 0	28.39
		Mid	DFT-s-OFDM	$\pi/2$ BPSK	167 + 39	H + V	2Tx	H	6	273	64 / 0	28.38	
			DFT-s-OFDM	16QAM	167 + 39	H + V	2Tx	H	6	273	64 / 0	26.73	
			DFT-s-OFDM	64QAM	167 + 39	H + V	2Tx	H	6	273	64 / 0	24.91	
			DFT-s-OFDM	$\pi/2$ BPSK	158 + 30	H + V	2Tx	V	49	198	64 / 0	24.46	
High	39849.96	DFT-s-OFDM	$\pi/2$ BPSK	158 + 30	H + V	2Tx	V	46	201	64 / 0	23.49		
100+100+100+100	4	Low	37199.94	DFT-s-OFDM	$\pi/2$ BPSK	158 + 30	H + V	2Tx	V	46	201	64 / 0	23.49
			38500.02	DFT-s-OFDM	QPSK	167 + 39	H + V	2Tx	H	5	273	64 / 0	28.15
		Mid	DFT-s-OFDM	$\pi/2$ BPSK	167 + 39	H + V	2Tx	H	5	273	64 / 0	28.12	
			DFT-s-OFDM	16QAM	167 + 39	H + V	2Tx	H	5	273	64 / 0	26.58	
			DFT-s-OFDM	64QAM	167 + 39	H + V	2Tx	H	5	273	64 / 0	24.83	
			DFT-s-OFDM	$\pi/2$ BPSK	158 + 30	H + V	2Tx	V	47	200	64 / 0	24.45	
High	39799.98	DFT-s-OFDM	$\pi/2$ BPSK	158 + 30	H + V	2Tx	V	47	200	64 / 0	24.45		

Table 7-29. N patch EIRP Data (Band n260 - 100MHz)

FCC ID: A3LSMS911U		PART 30 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset		Page 85 of 201

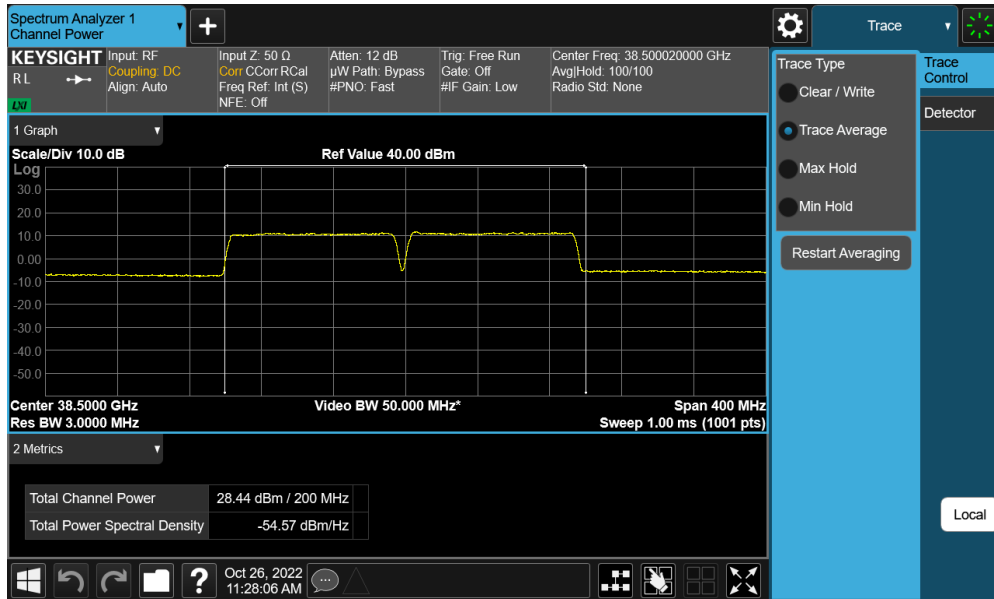


Plot 7-98. N patch EIRP Plot (Band n260 – 50MHz-1CC Mid Channel DFT-s-OFDM QPSK)

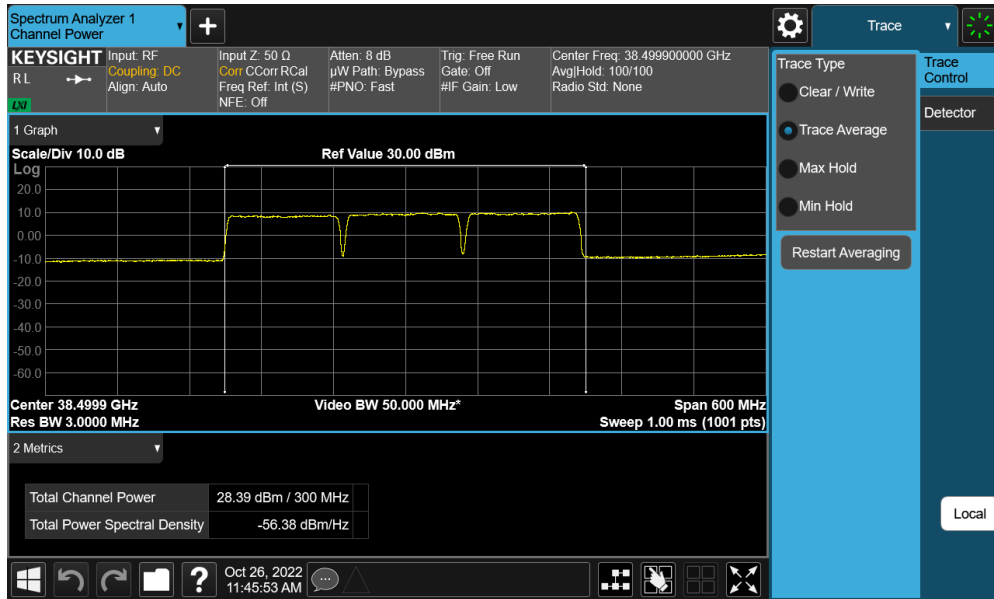


Plot 7-99. N patch EIRP Plot (Band n260 – 100MHz-1CC Mid Channel DFT-s-OFDM π/2 BPSK)

FCC ID: A3LSMS911U	PART 30 MEASUREMENT REPORT (CERTIFICATION)	Approved by: Technical Manager
Test Report S/N: 1M2209010096-08.A3L	Test Dates: 10/18/2022 – 11/14/2022	EUT Type: Portable Handset
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Plot 7-100. N patch EIRP Plot (Band n260 – 100MHz-2CC Mid Channel DFT-s-OFDM  $\pi/2$  BPSK)



Plot 7-101. N patch EIRP Plot (Band n260 – 100MHz-3CC Mid Channel DFT-s-OFDM QPSK)

FCC ID: A3LSMS911U		<b>PART 30 MEASUREMENT REPORT (CERTIFICATION)</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2209010096-08.A3L	<b>Test Dates:</b> 10/18/2022 – 11/14/2022	<b>EUT Type:</b> Portable Handset	Page 87 of 201