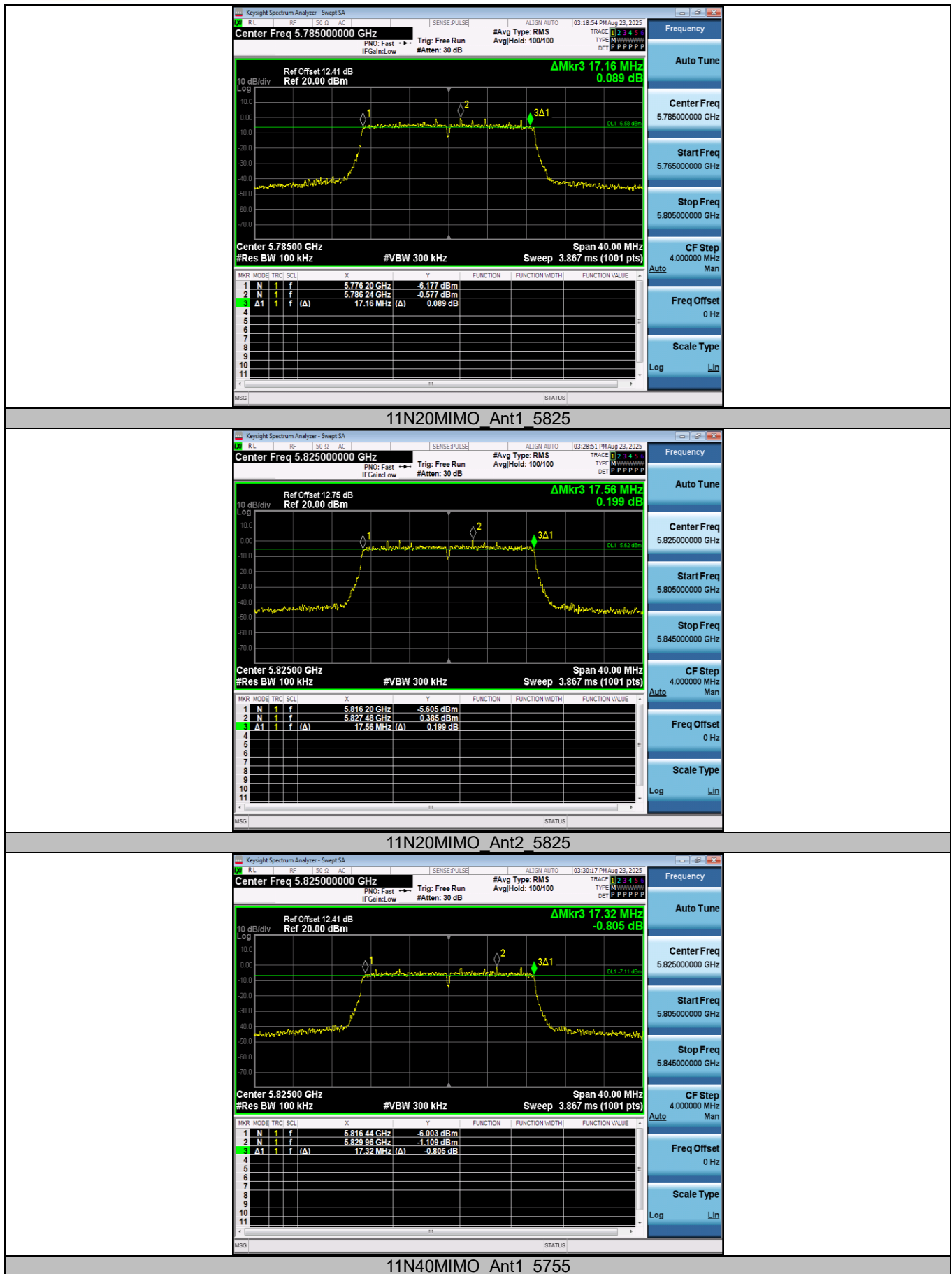




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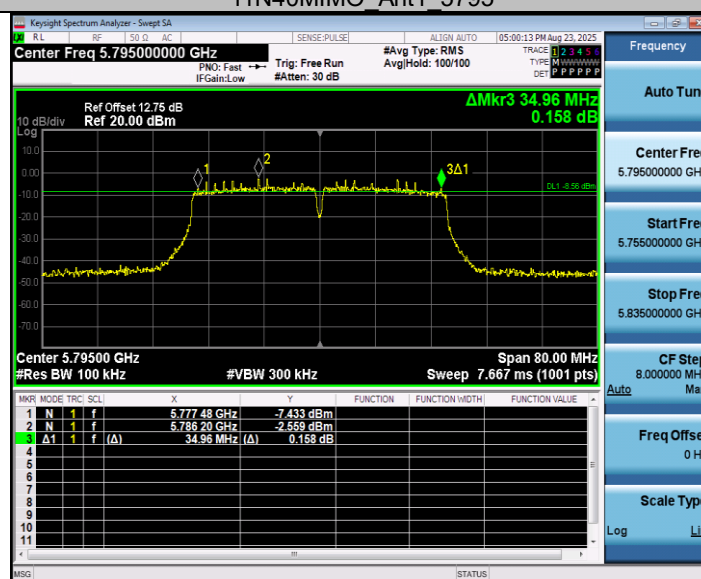
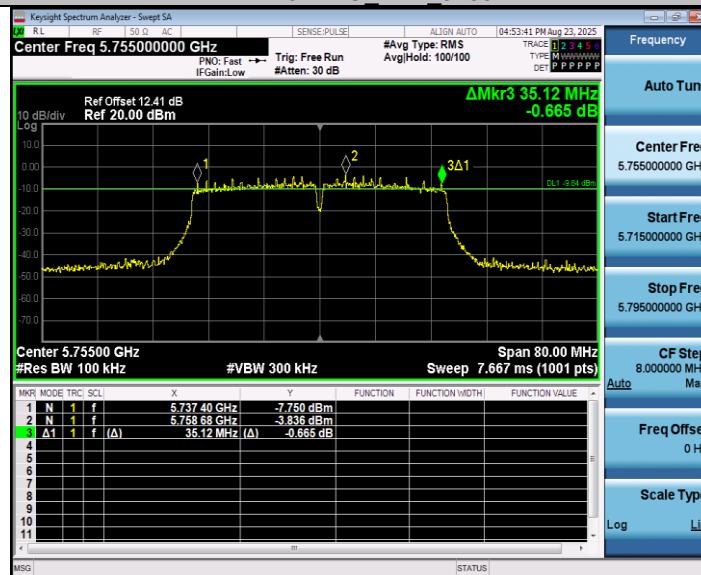
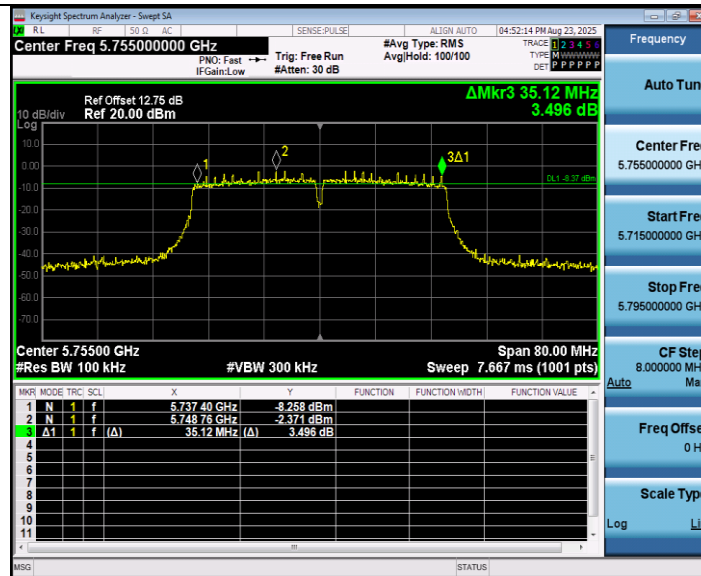
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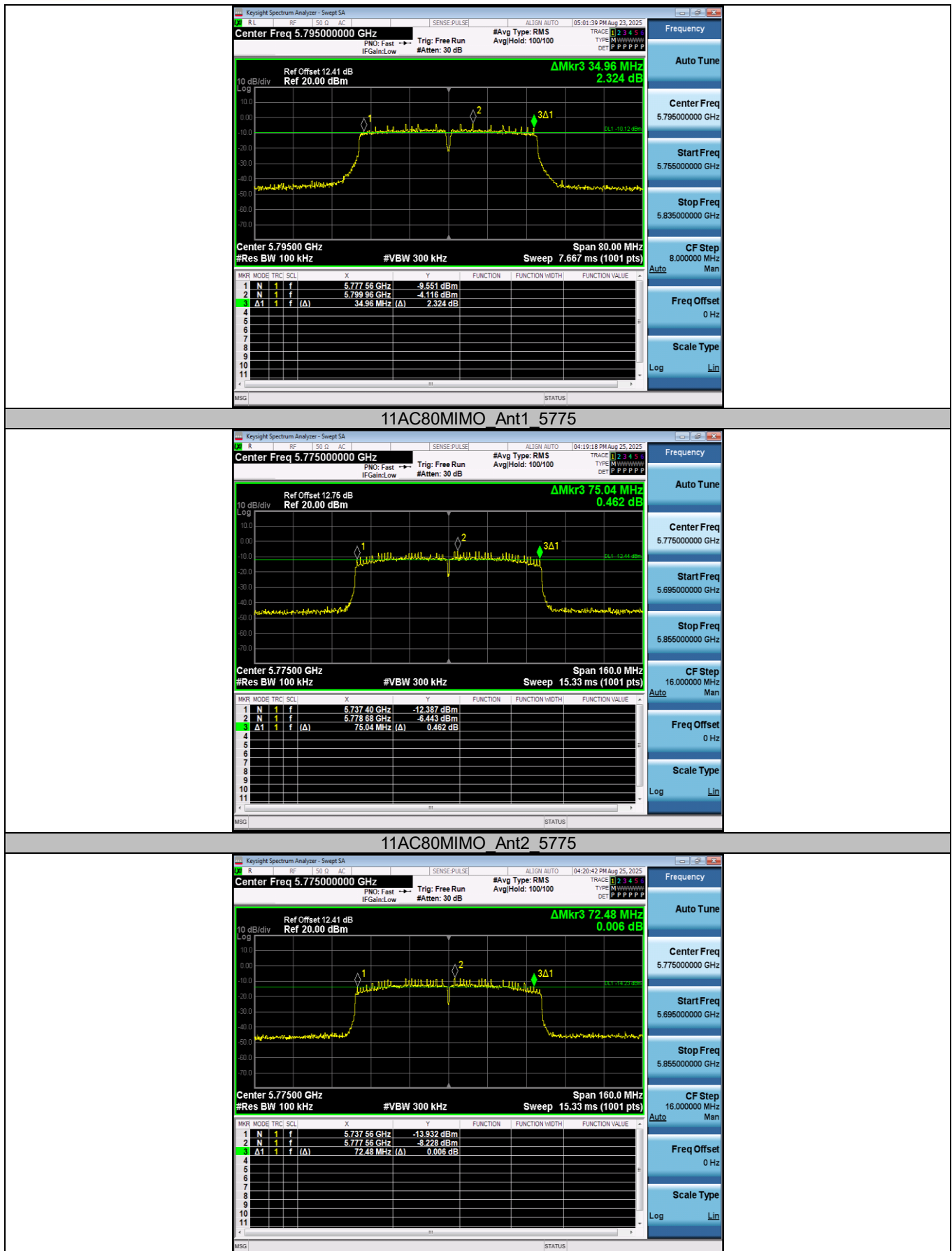
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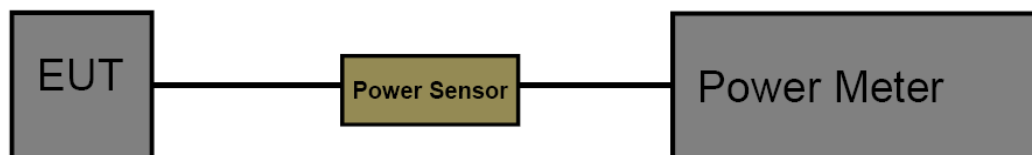
3.5. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a)

Test Item	Limit	Frequency Range (MHz)
Conducted Output Power	Fixed: 1 Watt (30dBm) Mobile and Portable: 250mW (24dBm)	5150~5250
	250mW (24dBm)	5250~5350
	250mW (24dBm)	5500~5700
	1 Watt (30dBm)	5725~5850

Test Configuration



Test Procedure

The measurement is according to section 3 of KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

Test Mode

Please refer to the clause 2.4.

**Test Result**

Test Mode	Antenna	Freq(MHz)	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	15.95	≤23.98	PASS
	Ant2	5180	15.51	≤23.98	PASS
	Ant1	5200	15.95	≤23.98	PASS
	Ant2	5200	15.11	≤23.98	PASS
	Ant1	5240	15.32	≤23.98	PASS
	Ant2	5240	15.23	≤23.98	PASS
	Ant1	5260	15.59	≤23.98	PASS
	Ant2	5260	15.20	≤23.98	PASS
	Ant1	5280	15.91	≤23.98	PASS
	Ant2	5280	15.31	≤23.98	PASS
	Ant1	5320	15.66	≤23.98	PASS
	Ant2	5320	15.16	≤23.98	PASS
	Ant1	5500	15.71	≤23.98	PASS
	Ant2	5500	15.59	≤23.98	PASS
	Ant1	5580	15.61	≤23.98	PASS
	Ant2	5580	15.34	≤23.98	PASS
	Ant1	5700	16.08	≤23.98	PASS
	Ant2	5700	15.78	≤23.98	PASS
	Ant1	5745	15.21	≤30.00	PASS
	Ant2	5745	15.60	≤30.00	PASS
	Ant1	5785	15.18	≤30.00	PASS
	Ant2	5785	15.79	≤30.00	PASS
	Ant1	5825	15.14	≤30.00	PASS
	Ant2	5825	15.41	≤30.00	PASS
11N20MIMO	Ant1	5180	11.02	≤21.85	PASS
	Ant2	5180	11.08	≤21.85	PASS
	total	5180	14.06	≤21.85	PASS
	Ant1	5200	12.05	≤21.85	PASS
	Ant2	5200	10.63	≤21.85	PASS
	total	5200	14.41	≤21.85	PASS
	Ant1	5240	11.48	≤21.85	PASS
	Ant2	5240	10.21	≤21.85	PASS
	total	5240	13.90	≤21.85	PASS
	Ant1	5260	12.19	≤21.85	PASS
	Ant2	5260	9.82	≤21.85	PASS
	total	5260	14.18	≤21.85	PASS
	Ant1	5280	11.87	≤21.85	PASS
	Ant2	5280	10.83	≤21.85	PASS
	total	5280	14.39	≤21.85	PASS
	Ant1	5320	12.23	≤21.85	PASS
	Ant2	5320	11.05	≤21.85	PASS
	total	5320	14.69	≤21.85	PASS
	Ant1	5500	12.34	≤21.85	PASS
	Ant2	5500	11.08	≤21.85	PASS
	total	5500	14.77	≤21.85	PASS
	Ant1	5580	12.81	≤21.85	PASS
	Ant2	5580	9.55	≤21.85	PASS
	total	5580	14.49	≤21.85	PASS
	Ant1	5700	13.06	≤21.85	PASS
	Ant2	5700	9.99	≤21.85	PASS
	total	5700	14.80	≤21.85	PASS
	Ant1	5745	12.62	≤27.87	PASS
	Ant2	5745	11.00	≤27.87	PASS
	total	5745	14.90	≤27.87	PASS
	Ant1	5785	12.23	≤27.87	PASS
	Ant2	5785	10.70	≤27.87	PASS
	total	5785	14.54	≤27.87	PASS
	Ant1	5825	11.80	≤27.87	PASS
	Ant2	5825	10.47	≤27.87	PASS
	total	5825	14.20	≤27.87	PASS
11N40MIMO	Ant1	5190	11.33	≤21.85	PASS

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	Ant2	5190	11.00	≤21.85	PASS
	total	5190	14.18	≤21.85	PASS
	Ant1	5230	11.18	≤21.85	PASS
	Ant2	5230	11.08	≤21.85	PASS
	total	5230	14.14	≤21.85	PASS
	Ant1	5270	11.35	≤21.85	PASS
	Ant2	5270	11.30	≤21.85	PASS
	total	5270	14.34	≤21.85	PASS
	Ant1	5310	11.31	≤21.85	PASS
	Ant2	5310	10.72	≤21.85	PASS
	total	5310	14.04	≤21.85	PASS
	Ant1	5510	12.05	≤21.85	PASS
	Ant2	5510	10.56	≤21.85	PASS
	total	5510	14.38	≤21.85	PASS
	Ant1	5550	11.78	≤21.85	PASS
	Ant2	5550	10.14	≤21.85	PASS
	total	5550	14.05	≤21.85	PASS
	Ant1	5670	11.95	≤21.85	PASS
	Ant2	5670	10.28	≤21.85	PASS
	total	5670	14.21	≤21.85	PASS
	Ant1	5755	12.04	≤27.87	PASS
	Ant2	5755	10.26	≤27.87	PASS
	total	5755	14.25	≤27.87	PASS
	Ant1	5795	11.70	≤27.87	PASS
	Ant2	5795	10.22	≤27.87	PASS
	total	5795	14.03	≤27.87	PASS
11AC20MIMO	Ant1	5180	11.24	≤21.85	PASS
	Ant2	5180	10.78	≤21.85	PASS
	total	5180	14.03	≤21.85	PASS
	Ant1	5200	11.22	≤21.85	PASS
	Ant2	5200	10.55	≤21.85	PASS
	total	5200	13.91	≤21.85	PASS
	Ant1	5240	10.70	≤21.85	PASS
	Ant2	5240	10.23	≤21.85	PASS
	total	5240	13.48	≤21.85	PASS
	Ant1	5260	12.10	≤21.85	PASS
	Ant2	5260	9.81	≤21.85	PASS
	total	5260	14.11	≤21.85	PASS
	Ant1	5280	11.79	≤21.85	PASS
	Ant2	5280	10.80	≤21.85	PASS
	total	5280	14.33	≤21.85	PASS
	Ant1	5320	11.93	≤21.85	PASS
	Ant2	5320	11.03	≤21.85	PASS
	total	5320	14.51	≤21.85	PASS
	Ant1	5500	12.26	≤21.85	PASS
	Ant2	5500	10.52	≤21.85	PASS
	total	5500	14.49	≤21.85	PASS
	Ant1	5580	12.36	≤21.85	PASS
	Ant2	5580	9.61	≤21.85	PASS
	total	5580	14.21	≤21.85	PASS
	Ant1	5700	12.36	≤21.85	PASS
	Ant2	5700	9.42	≤21.85	PASS
	total	5700	14.14	≤21.85	PASS
	Ant1	5745	12.08	≤27.87	PASS
	Ant2	5745	10.28	≤27.87	PASS
	total	5745	14.28	≤27.87	PASS
	Ant1	5785	11.75	≤27.87	PASS
	Ant2	5785	10.31	≤27.87	PASS
	total	5785	14.10	≤27.87	PASS
	Ant1	5825	11.39	≤27.87	PASS
	Ant2	5825	9.80	≤27.87	PASS
	total	5825	13.68	≤27.87	PASS
11AC40MIMO	Ant1	5190	9.47	≤21.85	PASS
	Ant2	5190	9.56	≤21.85	PASS
	total	5190	12.53	≤21.85	PASS

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	Ant1	5230	8.70	≤ 21.85	PASS
	Ant2	5230	9.54	≤ 21.85	PASS
	total	5230	12.15	≤ 21.85	PASS
	Ant1	5270	9.57	≤ 21.85	PASS
	Ant2	5270	10.29	≤ 21.85	PASS
	total	5270	12.96	≤ 21.85	PASS
	Ant1	5310	10.08	≤ 21.85	PASS
	Ant2	5310	10.03	≤ 21.85	PASS
	total	5310	13.07	≤ 21.85	PASS
	Ant1	5510	10.04	≤ 21.85	PASS
	Ant2	5510	9.54	≤ 21.85	PASS
	total	5510	12.81	≤ 21.85	PASS
	Ant1	5550	10.46	≤ 21.85	PASS
	Ant2	5550	9.51	≤ 21.85	PASS
	total	5550	13.02	≤ 21.85	PASS
	Ant1	5670	10.97	≤ 21.85	PASS
	Ant2	5670	8.33	≤ 21.85	PASS
	total	5670	12.86	≤ 21.85	PASS
	Ant1	5755	10.53	≤ 27.87	PASS
	Ant2	5755	8.18	≤ 27.87	PASS
	total	5755	12.52	≤ 27.87	PASS
	Ant1	5795	9.85	≤ 27.87	PASS
	Ant2	5795	8.15	≤ 27.87	PASS
	total	5795	12.09	≤ 27.87	PASS
11AC80MIMO	Ant1	5210	9.63	≤ 21.85	PASS
	Ant2	5210	8.87	≤ 21.85	PASS
	total	5210	12.28	≤ 21.85	PASS
	Ant1	5290	9.47	≤ 21.85	PASS
	Ant2	5290	9.35	≤ 21.85	PASS
	total	5290	12.42	≤ 21.85	PASS
	Ant1	5530	9.52	≤ 21.85	PASS
	Ant2	5530	9.82	≤ 21.85	PASS
	total	5530	12.68	≤ 21.85	PASS
	Ant1	5610	10.23	≤ 21.85	PASS
	Ant2	5610	9.46	≤ 21.85	PASS
	total	5610	12.87	≤ 21.85	PASS
	Ant1	5775	10.52	≤ 27.87	PASS
	Ant2	5775	8.72	≤ 27.87	PASS
	total	5775	12.72	≤ 27.87	PASS



3.6. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a)

For the 5.15~5.25GHz band:

- Outdoor AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 17 - (G_{Tx} - 6)$.
- Indoor AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 17 - (G_{Tx} - 6)$.
- Point-to-point AP
The peak power spectral density (PSD) shall not exceed the lesser of 17dBm/MHz.
If $G_{Tx} > 23\text{dBi}$, then $\text{PSD} = 17 - (G_{Tx} - 23)$.
- Client devices
The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{Tx} - 6)$.

For the 5.25~5.35GHz band:

The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{Tx} - 6)$.

For the 5.47~5.725GHz band:

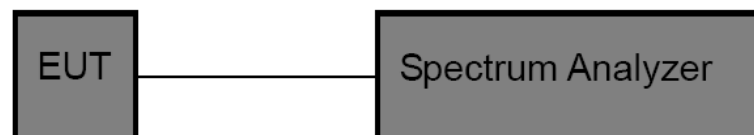
The peak power spectral density (PSD) shall not exceed the lesser of 11dBm/MHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 11 - (G_{Tx} - 6)$.

For the 5.725~5.85GHz band:

- Point-to-multipoint systems (P2M)
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.
If $G_{Tx} > 6\text{dBi}$, then $\text{PSD} = 30 - (G_{Tx} - 6)$.
- Point-to-point systems (P2P)
The peak power spectral density (PSD) shall not exceed the lesser of 30dBm/500kHz.

Note: G_{Tx} : EUT Antenna gain.

Test Configuration



Test Procedure

The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement is according to KDB 789033 D02 General UNII Test Procedures New Rules V02r01.

- (1) The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- (2) Set analyzer center frequency to transmitting frequency.
- (3) Set the span to encompass the entire emissions bandwidth (EBW) (alternatively, the entire 99% OBW) of the signal.

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- (4) RBW=1MHz for devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz
RBW=500kHz for devices operating in the band 5.725-5.85 GHz.
- (5) Set the VBW to: ≥ 3 RBW
- (6) Detector: AVG
- (7) Trace: Max Hold and View
- (7) Sweep time: auto
- (8) Trace average at least 100 traces in power averaging.
- (9) User the peak marker function to determine the maximum amplitude level within the RBW. Apply correction to the result if different RBW is used.

NOTE: The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	5.00	≤ 11.00	PASS
	Ant2	5180	4.54	≤ 11.00	PASS
	Ant1	5200	4.93	≤ 11.00	PASS
	Ant2	5200	4.12	≤ 11.00	PASS
	Ant1	5240	4.32	≤ 11.00	PASS
	Ant2	5240	4.44	≤ 11.00	PASS
	Ant1	5260	4.48	≤ 11.00	PASS
	Ant2	5260	4.01	≤ 11.00	PASS
	Ant1	5280	4.97	≤ 11.00	PASS
	Ant2	5280	3.98	≤ 11.00	PASS
	Ant1	5320	4.98	≤ 11.00	PASS
	Ant2	5320	3.88	≤ 11.00	PASS
	Ant1	5500	4.92	≤ 11.00	PASS
	Ant2	5500	4.81	≤ 11.00	PASS
	Ant1	5580	4.68	≤ 11.00	PASS
	Ant2	5580	4.32	≤ 11.00	PASS
	Ant1	5700	5.14	≤ 11.00	PASS
	Ant2	5700	4.59	≤ 11.00	PASS
	Ant1	5745	1.62	≤ 30.00	PASS
	Ant2	5745	0.97	≤ 30.00	PASS
	Ant1	5785	1.91	≤ 30.00	PASS
	Ant2	5785	1.94	≤ 30.00	PASS
	Ant1	5825	1.68	≤ 30.00	PASS
	Ant2	5825	1.61	≤ 30.00	PASS
11N20MIMO	Ant1	5180	0.00	≤ 8.74	PASS
	Ant2	5180	0.03	≤ 8.74	PASS
	total	5180	3.03	≤ 8.74	PASS
	Ant1	5200	0.76	≤ 8.74	PASS
	Ant2	5200	-0.35	≤ 8.74	PASS
	total	5200	3.25	≤ 8.74	PASS
	Ant1	5240	0.45	≤ 8.74	PASS
	Ant2	5240	-0.98	≤ 8.74	PASS
	total	5240	2.80	≤ 8.74	PASS
	Ant1	5260	0.69	≤ 8.74	PASS
	Ant2	5260	-1.50	≤ 8.74	PASS
	total	5260	2.74	≤ 8.74	PASS
	Ant1	5280	0.38	≤ 8.74	PASS
	Ant2	5280	-0.09	≤ 8.74	PASS
	total	5280	3.16	≤ 8.74	PASS
	Ant1	5320	1.17	≤ 8.74	PASS
	Ant2	5320	-0.17	≤ 8.74	PASS
	total	5320	3.56	≤ 8.74	PASS
	Ant1	5500	1.41	≤ 8.74	PASS

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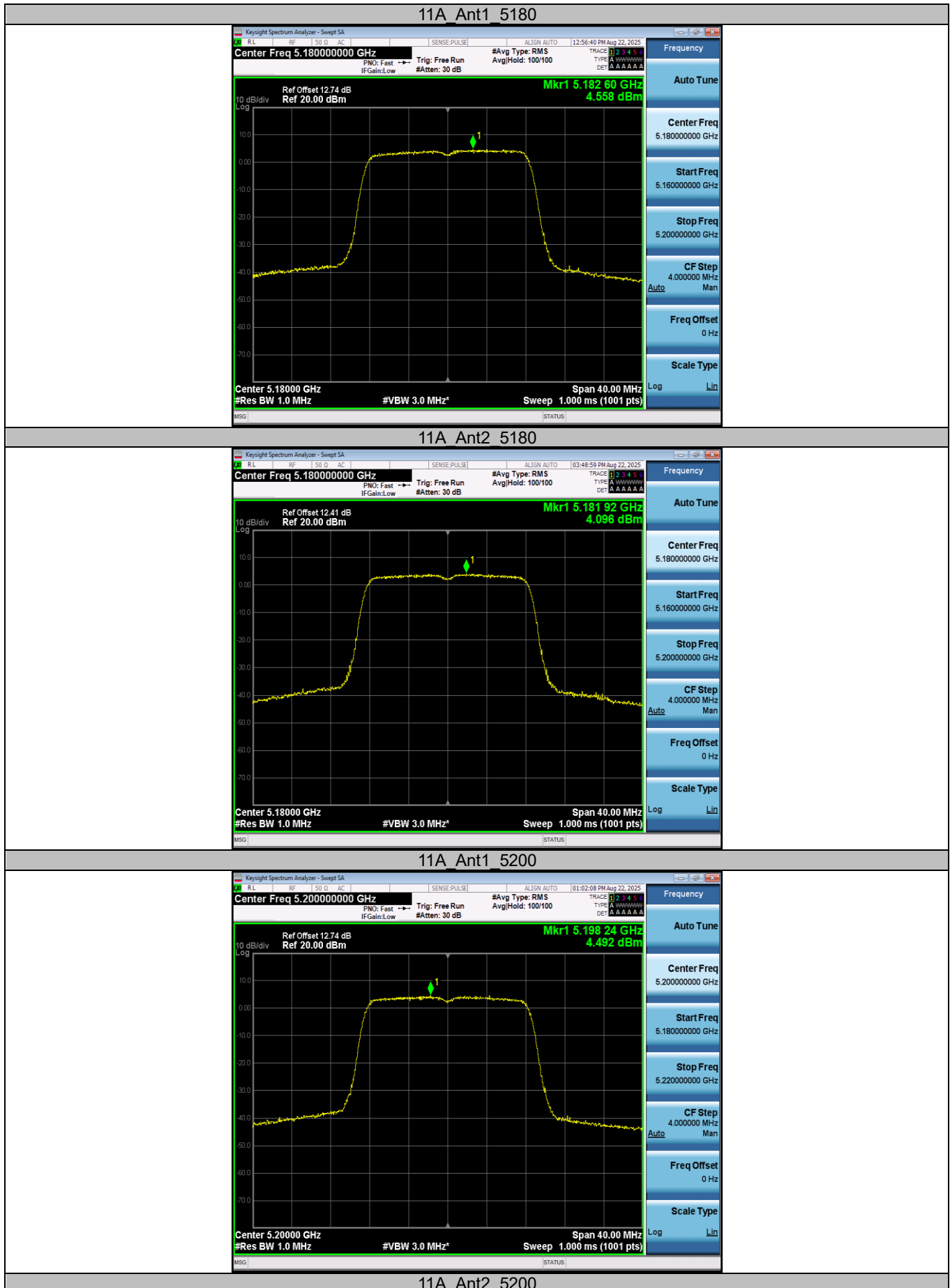
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	Ant2	5500	0.17	≤8.74	PASS
	total	5500	3.84	≤8.74	PASS
	Ant1	5580	1.23	≤8.74	PASS
	Ant2	5580	-1.37	≤8.74	PASS
	total	5580	3.13	≤8.74	PASS
	Ant1	5700	1.71	≤8.74	PASS
	Ant2	5700	-1.44	≤8.74	PASS
	total	5700	3.42	≤8.74	PASS
	Ant1	5745	-1.53	≤27.87	PASS
	Ant2	5745	-3.34	≤27.87	PASS
	total	5745	0.67	≤27.87	PASS
	Ant1	5785	-2.59	≤27.87	PASS
	Ant2	5785	-3.10	≤27.87	PASS
	total	5785	0.17	≤27.87	PASS
	Ant1	5825	-2.08	≤27.87	PASS
	Ant2	5825	-3.42	≤27.87	PASS
	total	5825	0.31	≤27.87	PASS
11N40MIMO	Ant1	5190	-2.52	≤8.74	PASS
	Ant2	5190	-2.82	≤8.74	PASS
	total	5190	0.34	≤8.74	PASS
	Ant1	5230	-2.84	≤8.74	PASS
	Ant2	5230	-2.90	≤8.74	PASS
	total	5230	0.14	≤8.74	PASS
	Ant1	5270	-2.62	≤8.74	PASS
	Ant2	5270	-2.75	≤8.74	PASS
	total	5270	0.33	≤8.74	PASS
	Ant1	5310	-2.42	≤8.74	PASS
	Ant2	5310	-2.97	≤8.74	PASS
	total	5310	0.32	≤8.74	PASS
	Ant1	5510	-1.93	≤8.74	PASS
	Ant2	5510	-3.50	≤8.74	PASS
	total	5510	0.37	≤8.74	PASS
	Ant1	5550	-1.76	≤8.74	PASS
	Ant2	5550	-3.32	≤8.74	PASS
	total	5550	0.54	≤8.74	PASS
	Ant1	5670	-1.78	≤8.74	PASS
	Ant2	5670	-3.63	≤8.74	PASS
	total	5670	0.40	≤8.74	PASS
	Ant1	5755	-4.76	≤27.87	PASS
	Ant2	5755	-6.36	≤27.87	PASS
	total	5755	-2.48	≤27.87	PASS
11AC80MIMO	Ant1	5795	-5.45	≤27.87	PASS
	Ant2	5795	-6.70	≤27.87	PASS
	total	5795	-3.02	≤27.87	PASS
	Ant1	5210	-6.86	≤8.74	PASS
	Ant2	5210	-6.81	≤8.74	PASS
	total	5210	-3.82	≤8.74	PASS
	Ant1	5290	-7.54	≤8.74	PASS
	Ant2	5290	-7.63	≤8.74	PASS
	total	5290	-4.57	≤8.74	PASS
	Ant1	5530	-6.24	≤8.74	PASS
	Ant2	5530	-5.87	≤8.74	PASS
	total	5530	-3.04	≤8.74	PASS
	Ant1	5610	-6.59	≤8.74	PASS
	Ant2	5610	-7.12	≤8.74	PASS
	total	5610	-3.84	≤8.74	PASS
	Ant1	5775	-9.18	≤27.87	PASS
	Ant2	5775	-10.96	≤27.87	PASS
	total	5775	-6.97	≤27.87	PASS



Test plot as follows:



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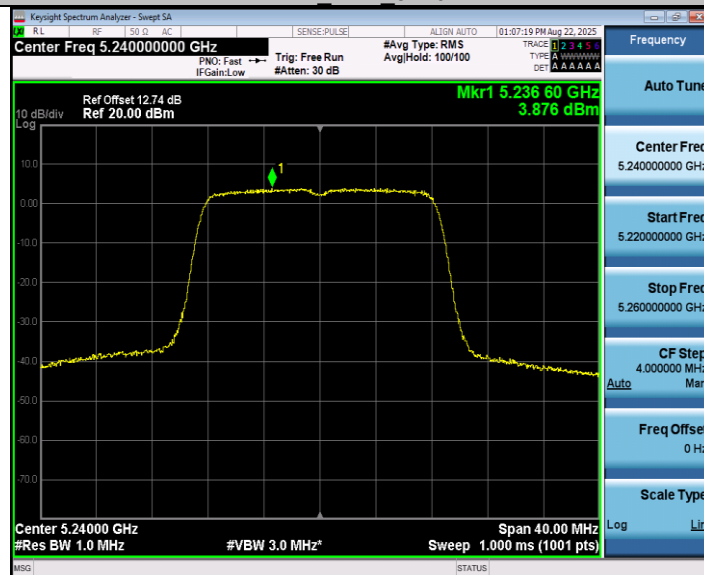
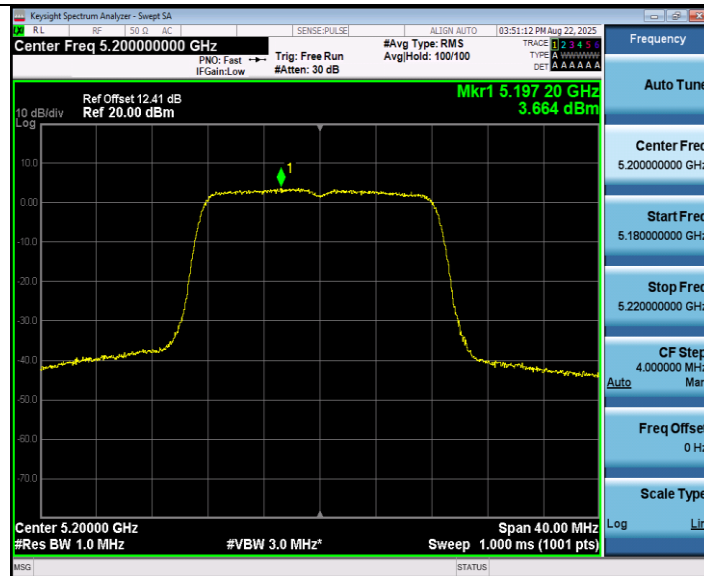
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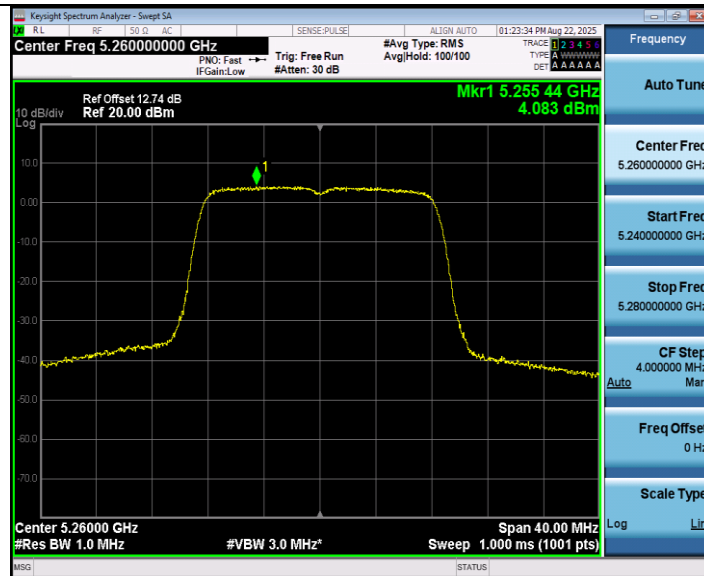
Tel.: (86)755-27521059

Fax: (86)755-27521011

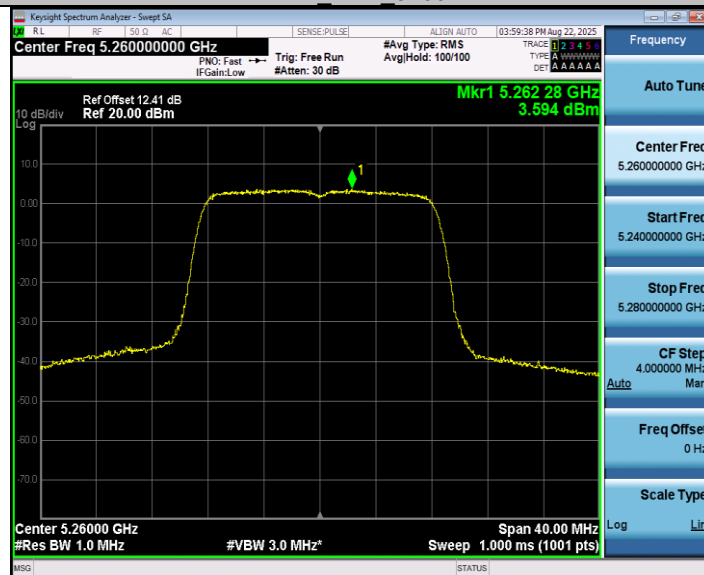
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11A_Ant2_5260



11A_Ant1_5280



11A_Ant2_5280

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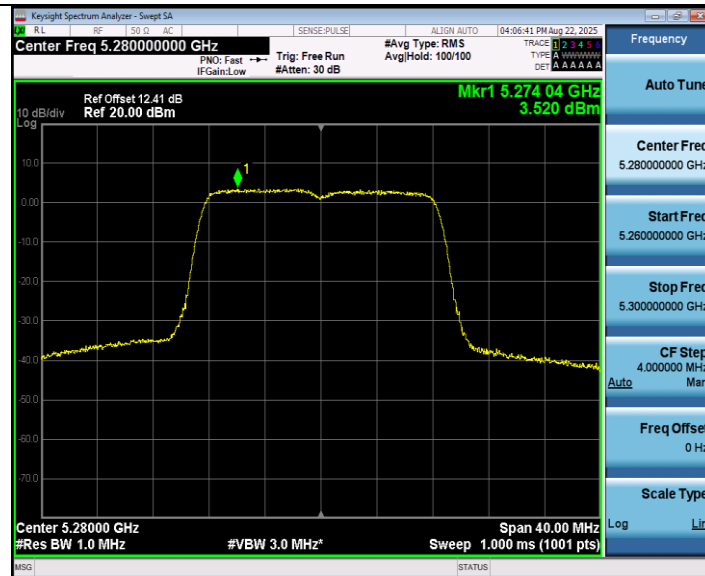
Tel.: (86)755-27521059

Fax: (86)755-27521011

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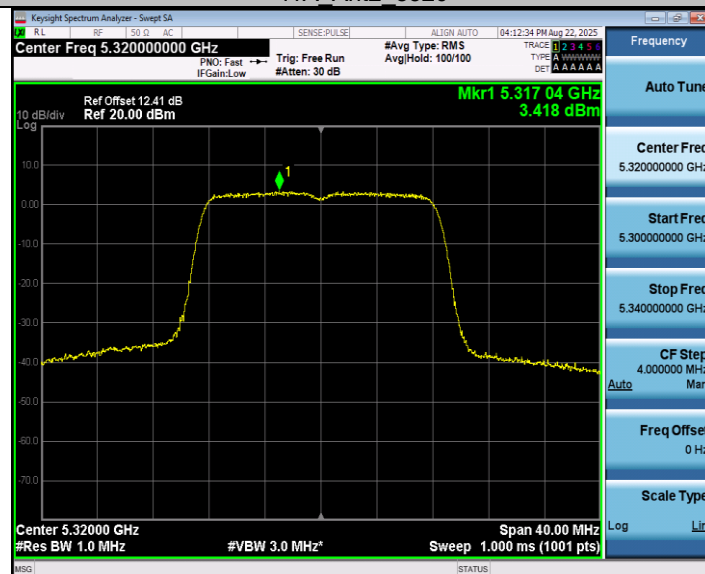
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11A Ant1_5320



11A Ant2_5320



11A Ant1_5500

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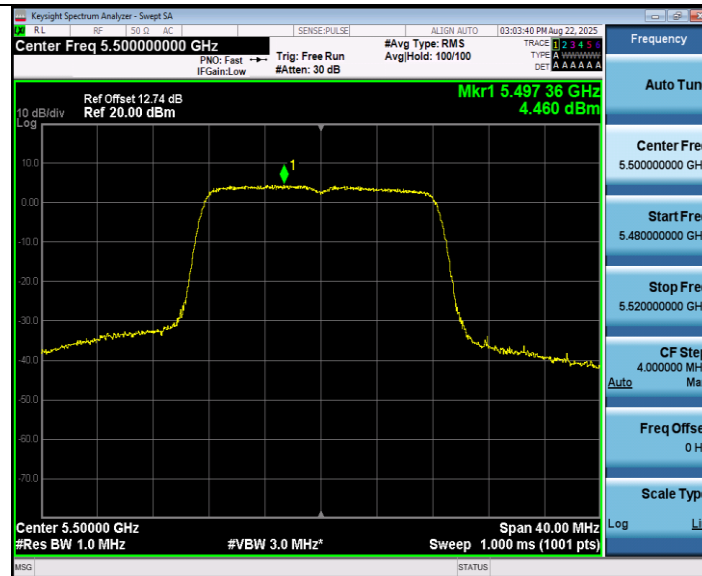
Tel.: (86)755-27521059

Fax: (86)755-27521011

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TRF No: CTC-TR-062_A2

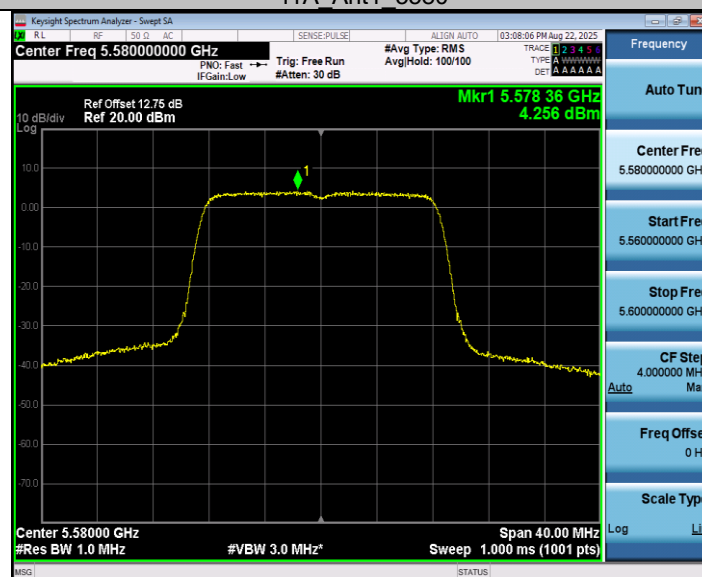
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11A_Ant2_5500



11A_Ant1_5580



11A_Ant2_5580

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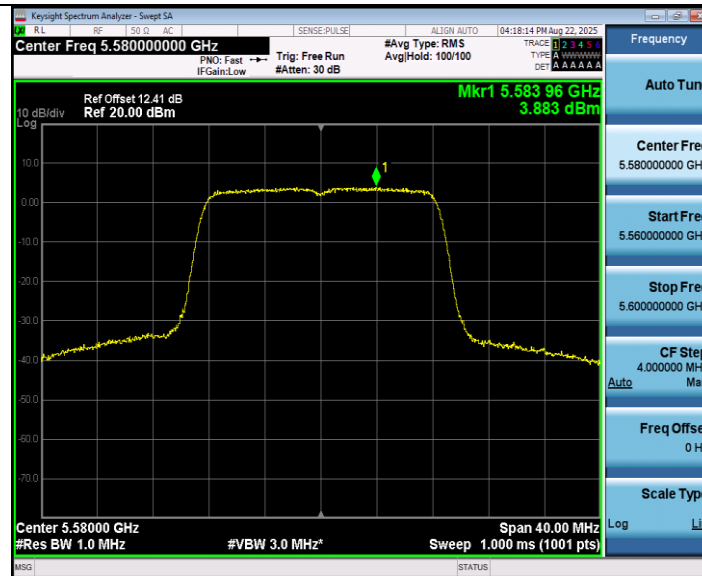
Tel.: (86)755-27521059

Fax: (86)755-27521011

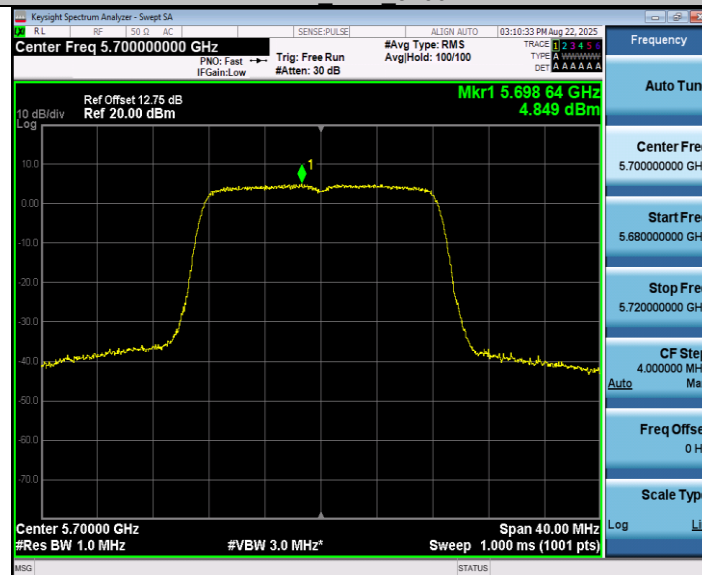
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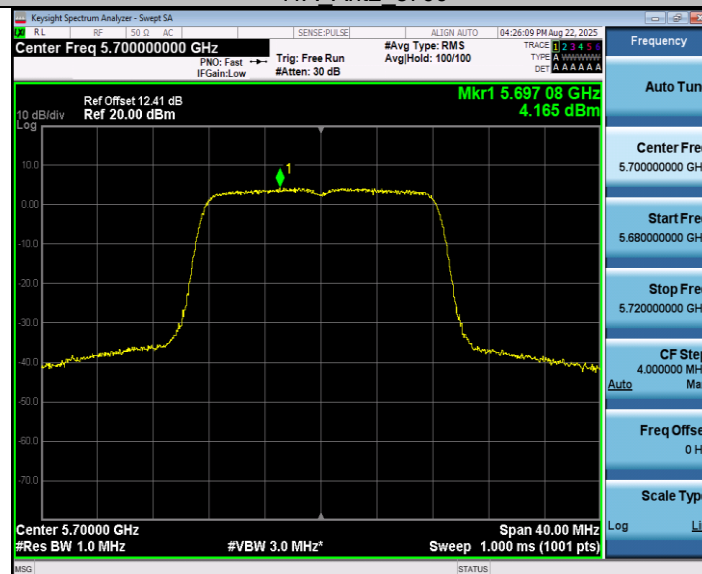
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11A Ant1 5700



11A Ant2 5700



11A Ant1 5745

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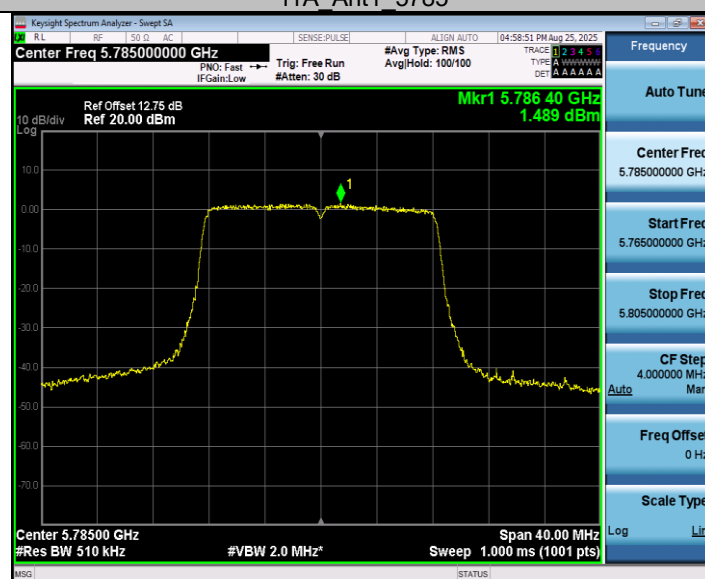
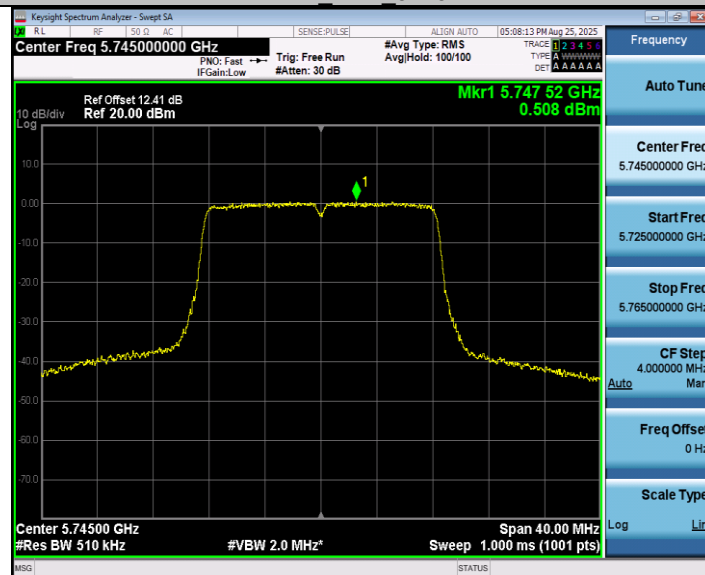
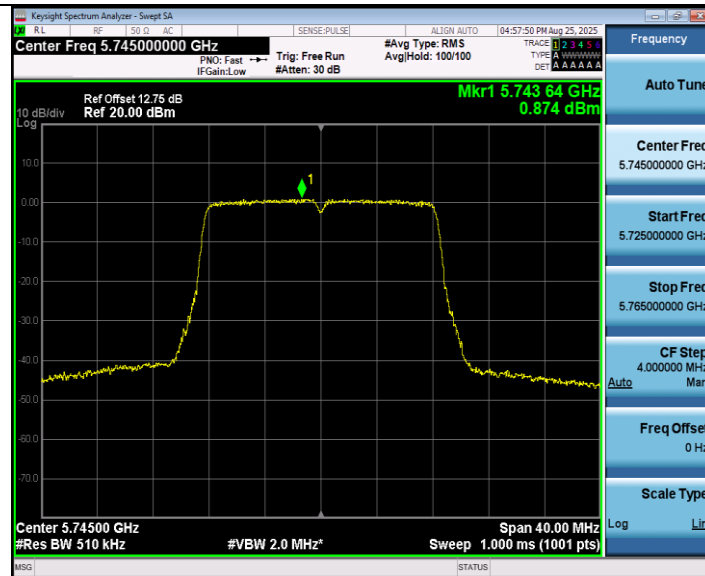
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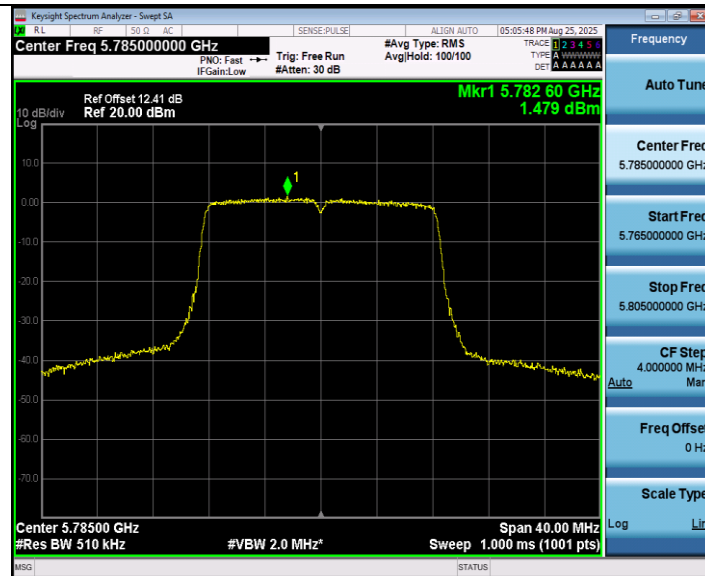


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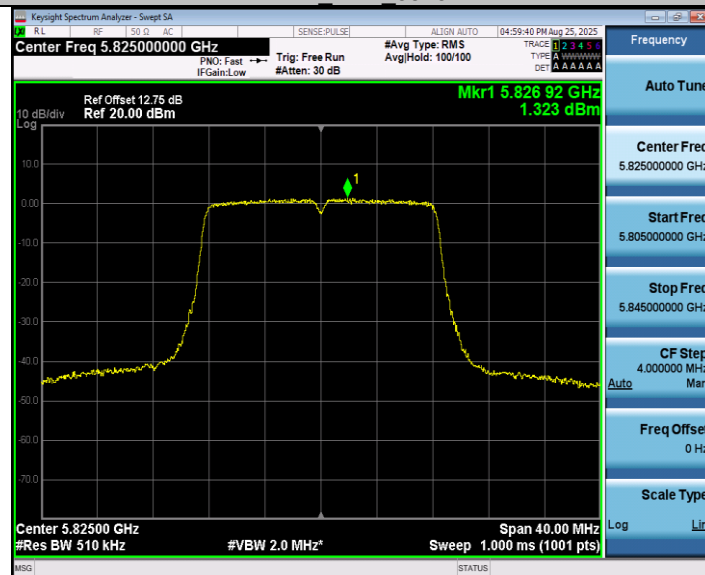
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TRF No: CTC-TR-062_A2

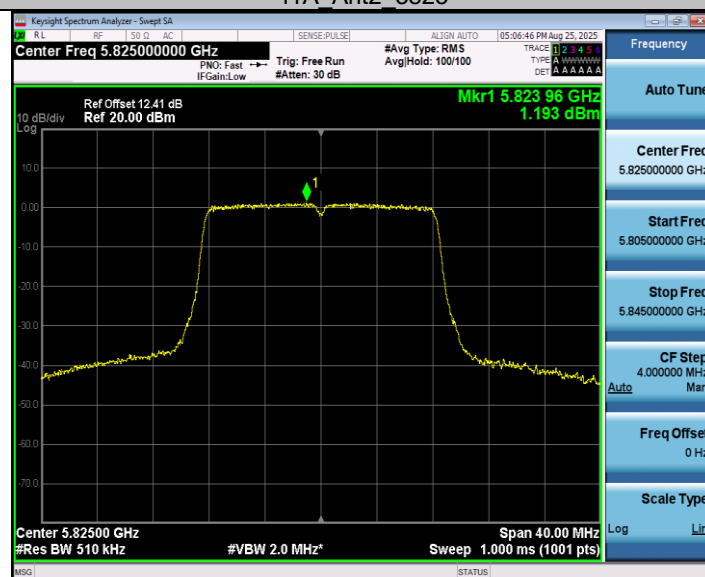
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11A Ant1 5825



11A Ant2 5825



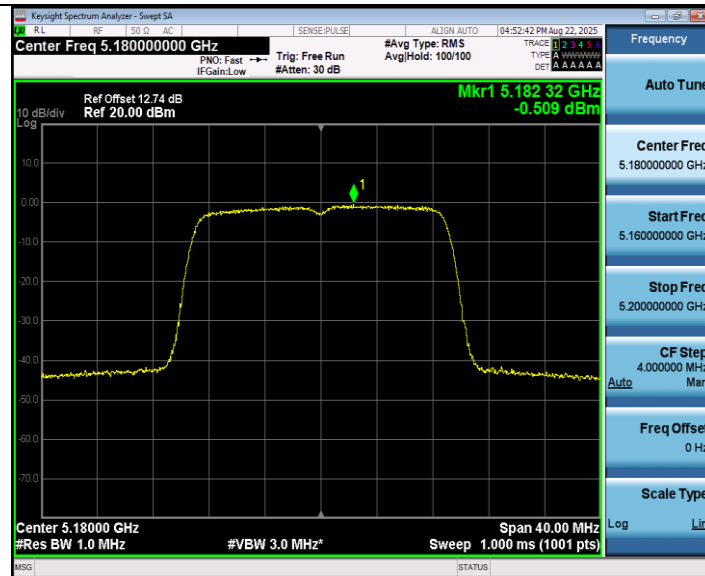
11N20MIMO_Ant1 5180

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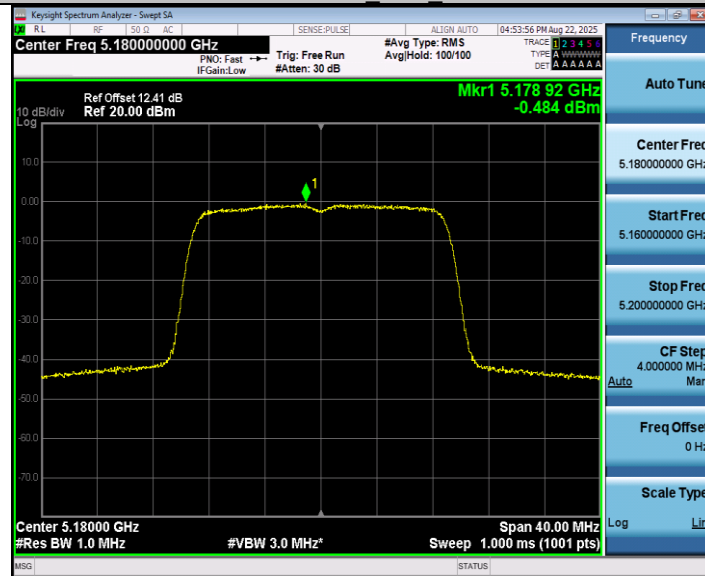
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Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

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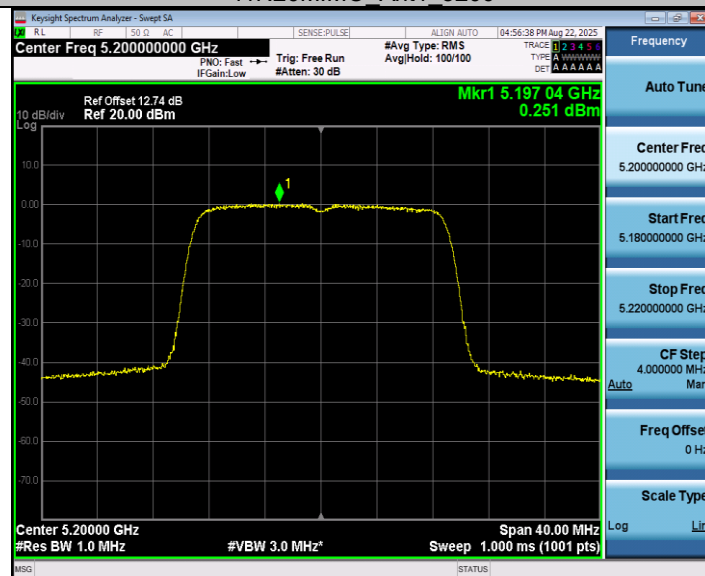
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11N20MIMO_Ant2_5180



11N20MIMO_Ant1_5200



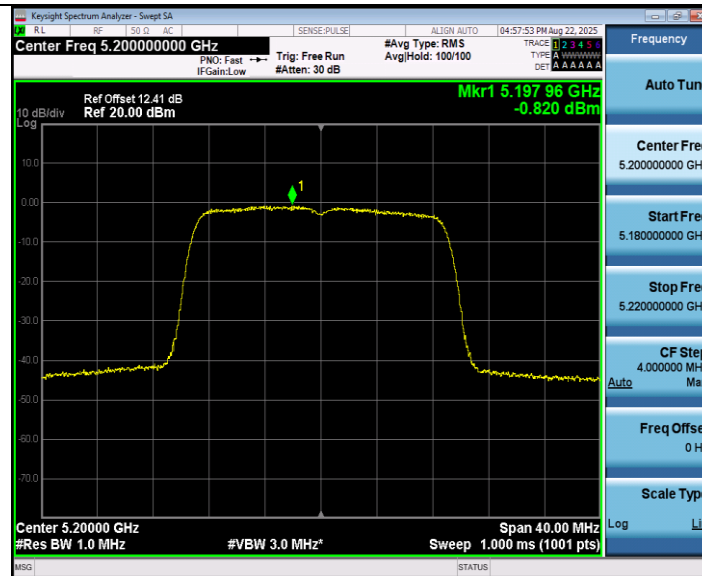
11N20MIMO_Ant2_5200

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11N20MIMO_Ant1_5240



11N20MIMO_Ant2_5240



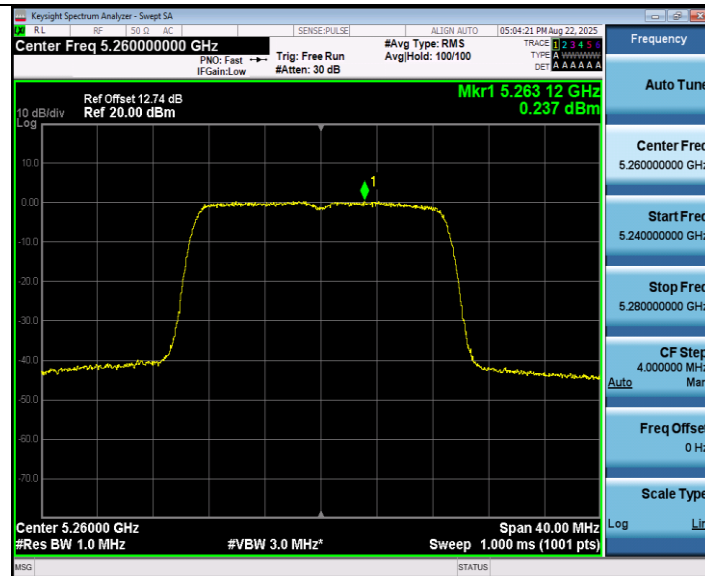
11N20MIMO_Ant1_5260

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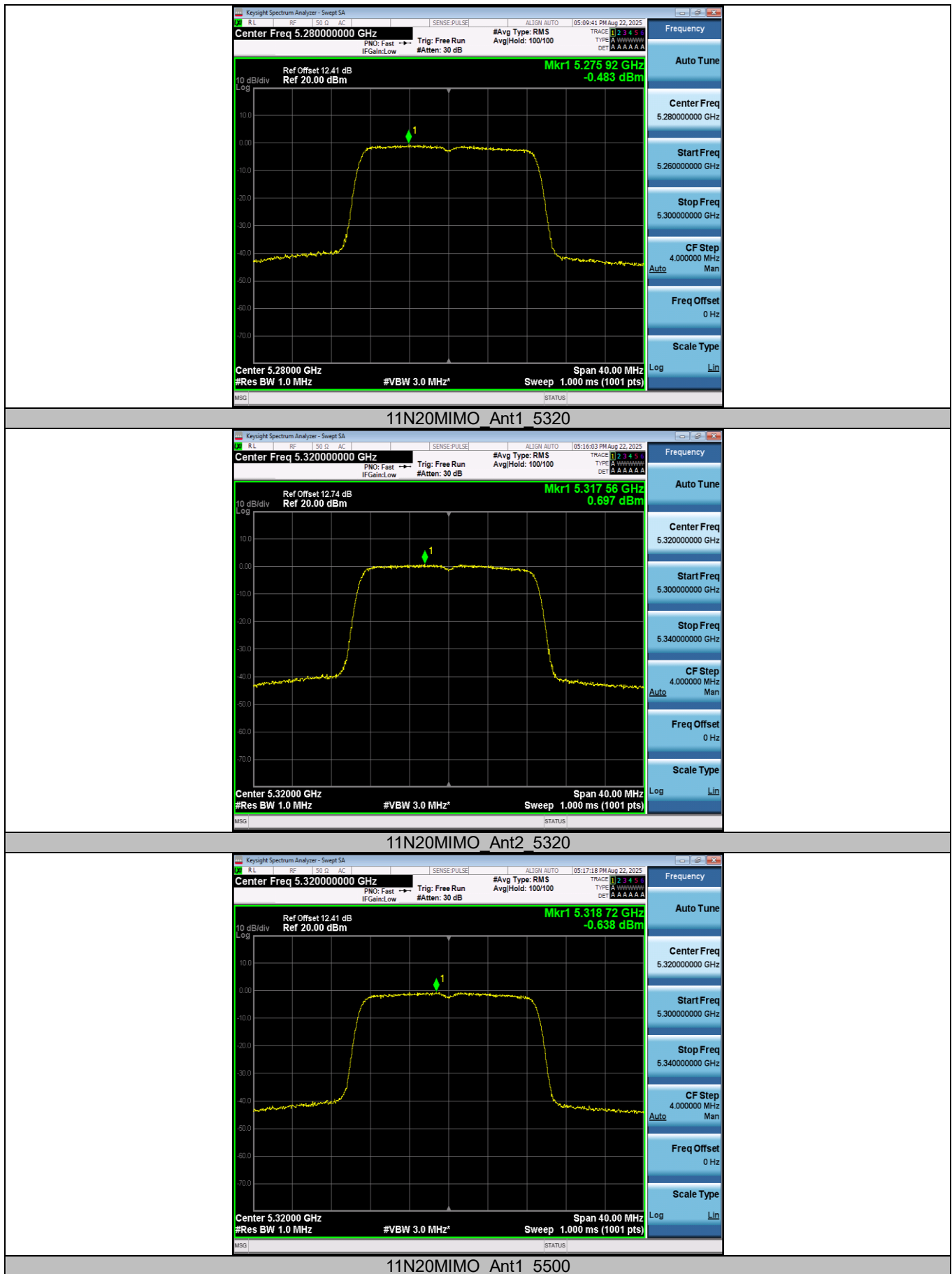
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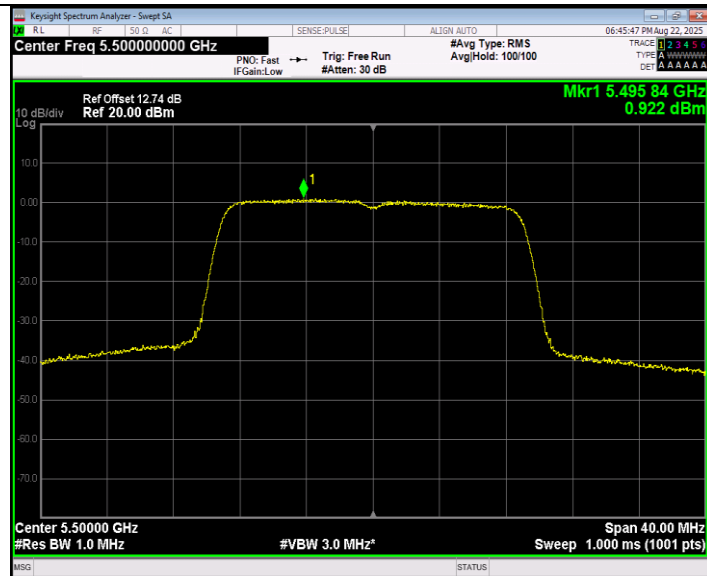
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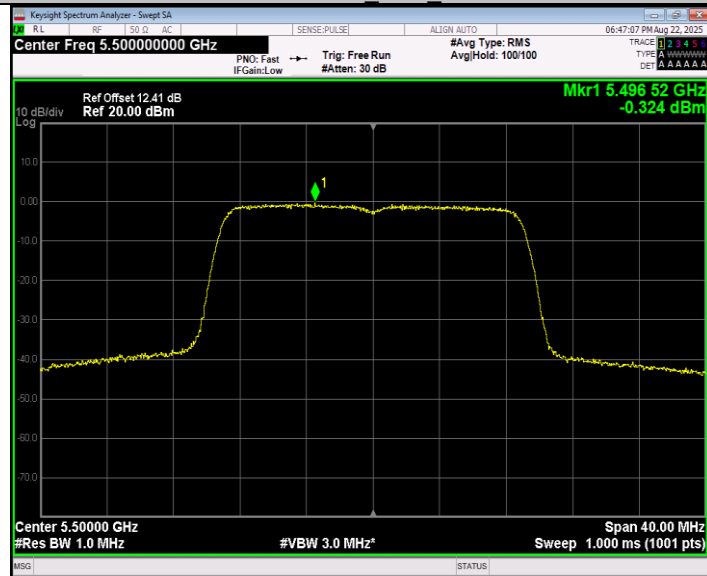
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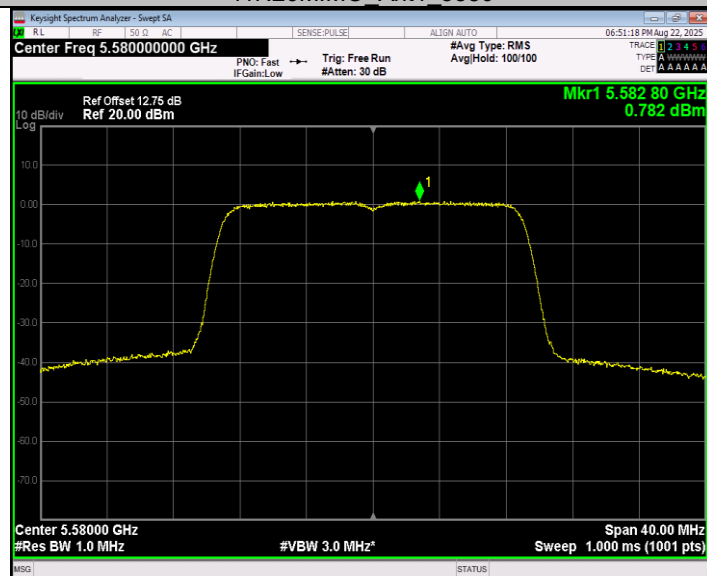
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11N20MIMO_Ant2_5500



11N20MIMO_Ant1_5580



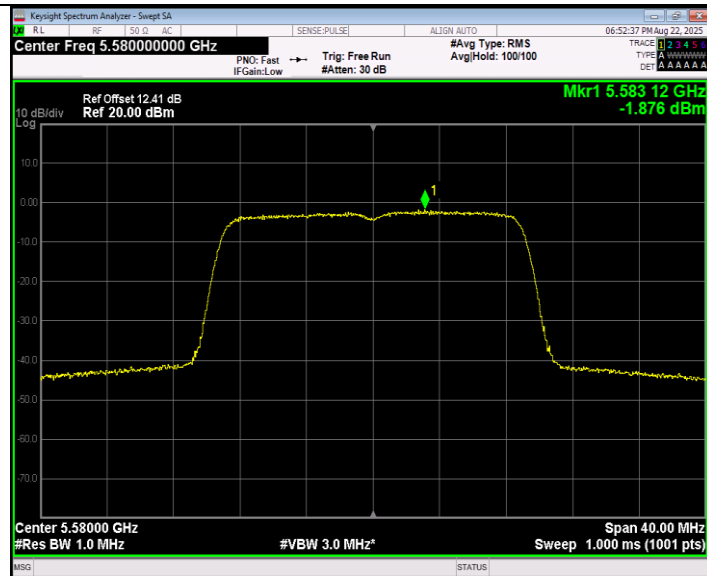
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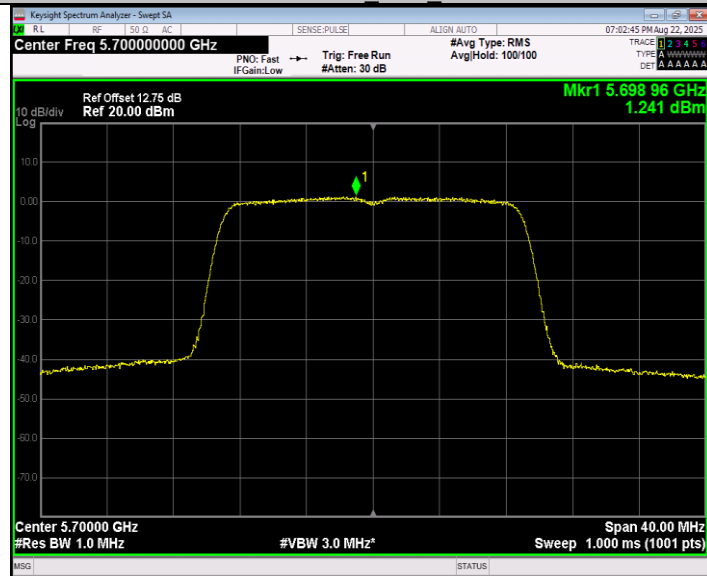
Room 107, 108, 207, 208, 303 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict,
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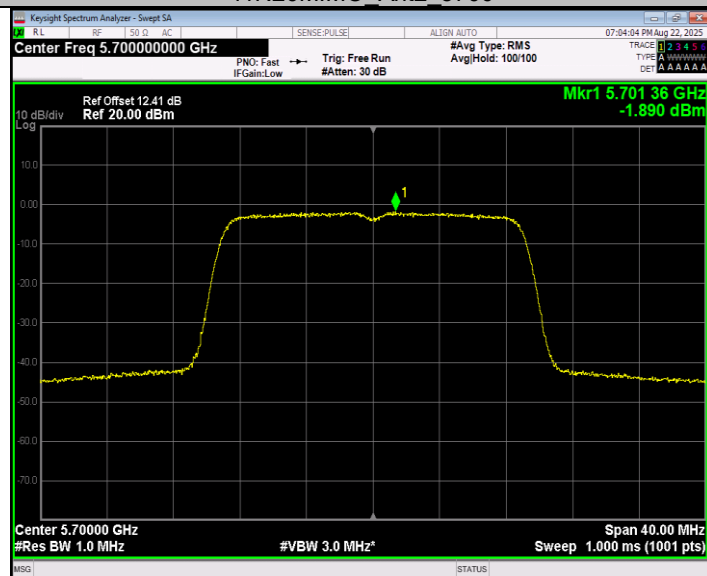
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11N20MIMO_Ant1_5700



11N20MIMO_Ant2_5700



11N20MIMO_Ant1_5745

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