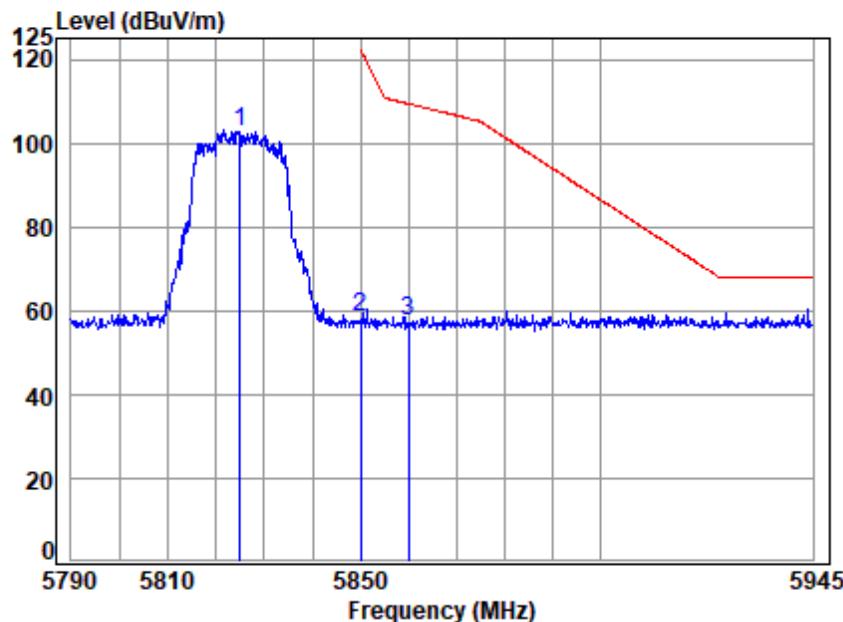


Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:20MHz; Channel:High



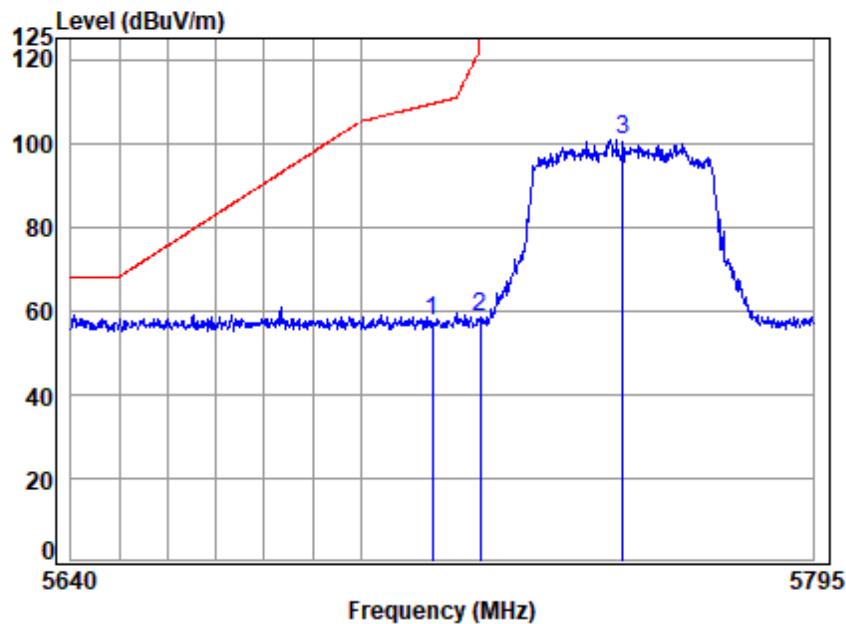
Site : chamber  
Condition: 3m VERTICAL  
Job No : 11613CR  
Mode : 5825 Band edge  
: 5G WIFI 11N20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	MHz	Loss	Factor	Level	Level	Line	
1	5825.000	8.23	34.93	42.35	102.02	102.83	----- peak
2	5850.000	8.24	34.95	42.33	57.37	58.23	122.20 -63.97 peak
3	5860.000	8.24	34.96	42.33	56.55	57.42	109.40 -51.98 peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



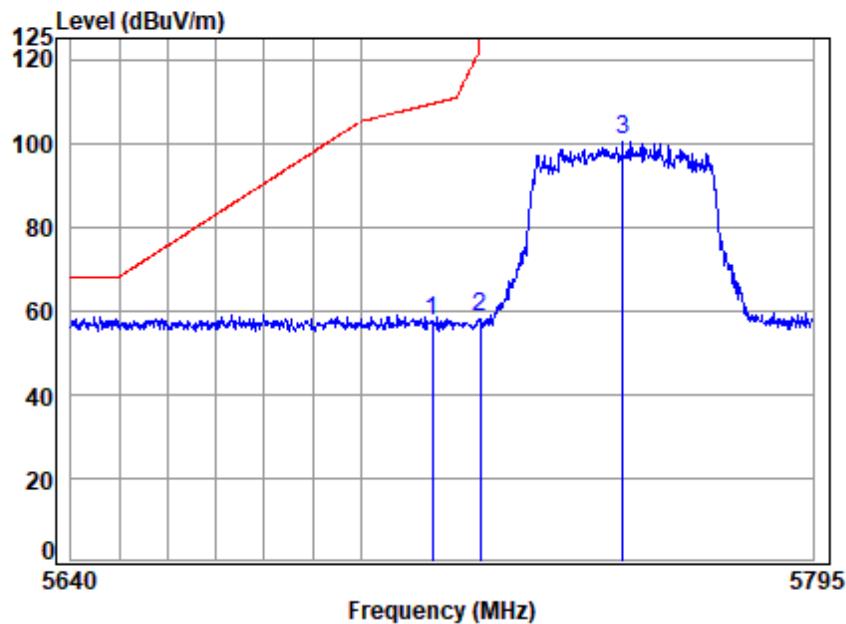
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 11613CR  
Mode : 5755 Band edge  
: 5G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5715.000	8.22	34.82	42.42	57.12	57.74	109.40	-51.66 peak
2 5725.000	8.22	34.83	42.41	57.99	58.63	122.20	-63.57 peak
3 5755.000	8.22	34.86	42.39	100.17	100.86	-----	----- peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low



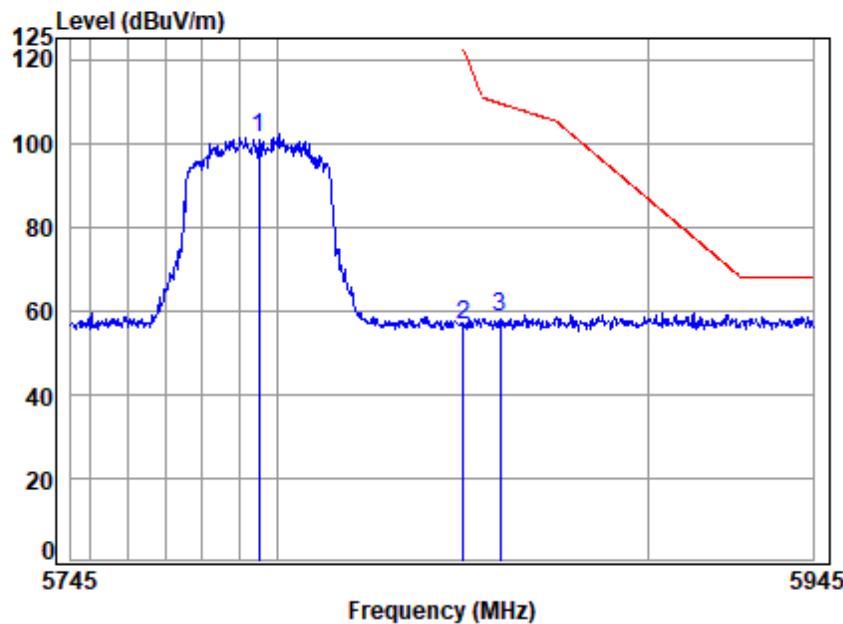
Site : chamber  
Condition: 3m VERTICAL  
Job No : 11613CR  
Mode : 5755 Band edge  
: 5G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5715.000	8.22	34.82	42.42	56.92	57.54	109.40	-51.86 peak
2 5725.000	8.22	34.83	42.41	57.74	58.38	122.20	-63.82 peak
3 5755.000	8.22	34.86	42.39	99.90	100.59	-----	----- peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High



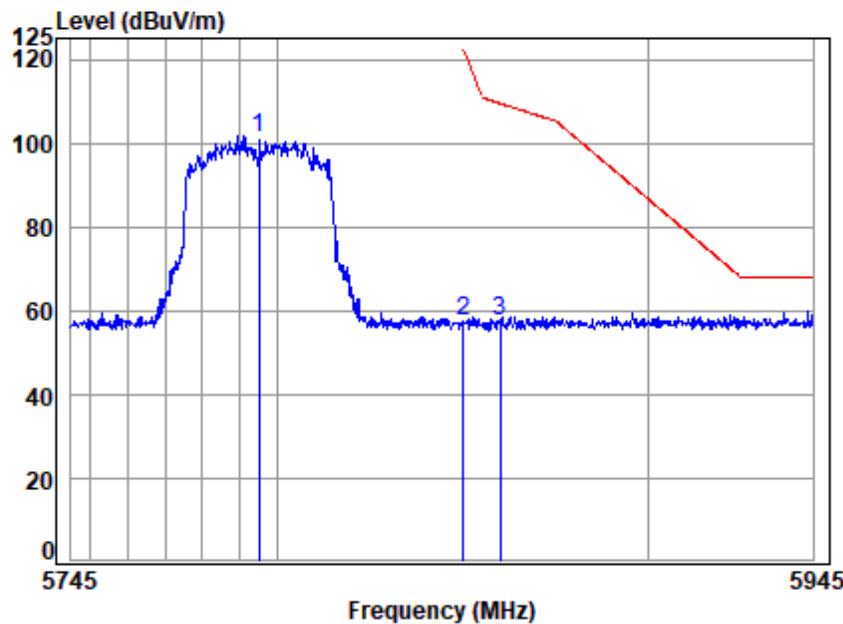
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 11613CR  
Mode : 5795 Band edge  
: 5G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5795.000	8.23	34.90	42.37	100.70	101.46	-----	peak
2 5850.000	8.24	34.95	42.33	55.90	56.76	122.20	-65.44 peak
3 5860.000	8.24	34.96	42.33	57.47	58.34	109.40	-51.06 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:High



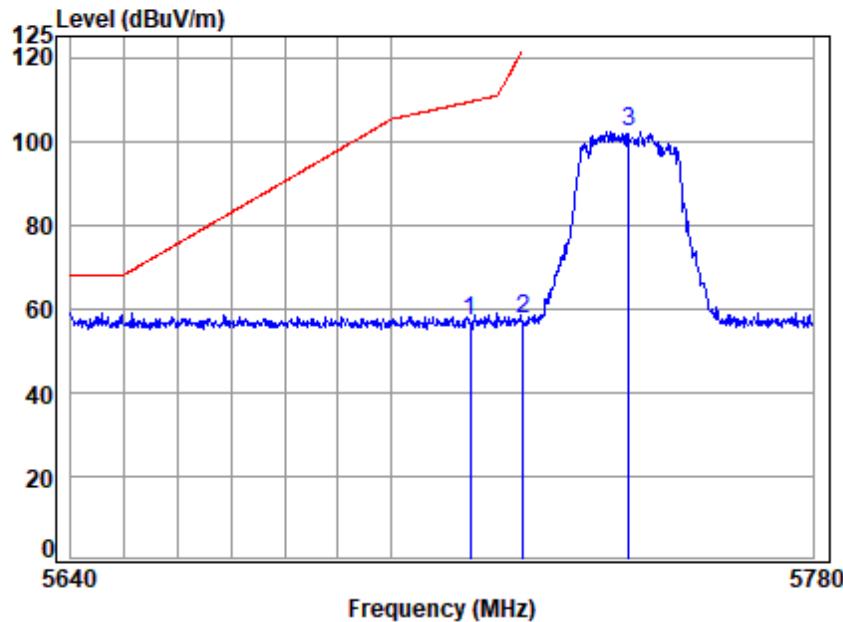
Site : chamber  
Condition: 3m VERTICAL  
Job No : 11613CR  
Mode : 5795 Band edge  
: 5G WIFI 11N40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5795.000	8.23	34.90	42.37	100.35	101.11	-----	peak
2 5850.000	8.24	34.95	42.33	56.49	57.35	122.20	-64.85 peak
3 5860.000	8.24	34.96	42.33	56.54	57.41	109.40	-51.99 peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



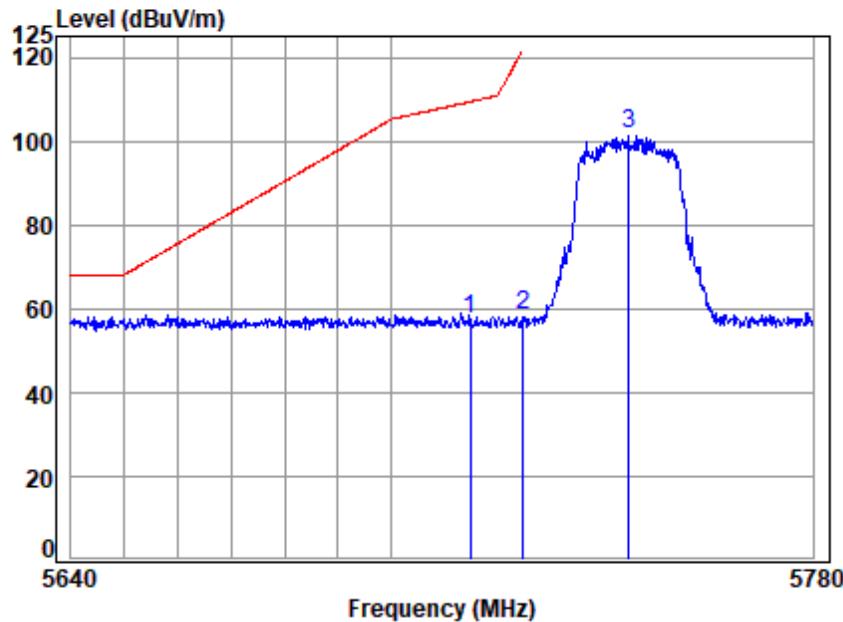
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 11613CR  
Mode : 5745 Band edge  
: 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5715.000	8.22	34.82	42.42	56.60	57.22	109.40	-52.18 peak
2 5725.000	8.22	34.83	42.41	56.80	57.44	122.20	-64.76 peak
3 5745.000	8.22	34.85	42.40	101.65	102.32	-----	----- peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



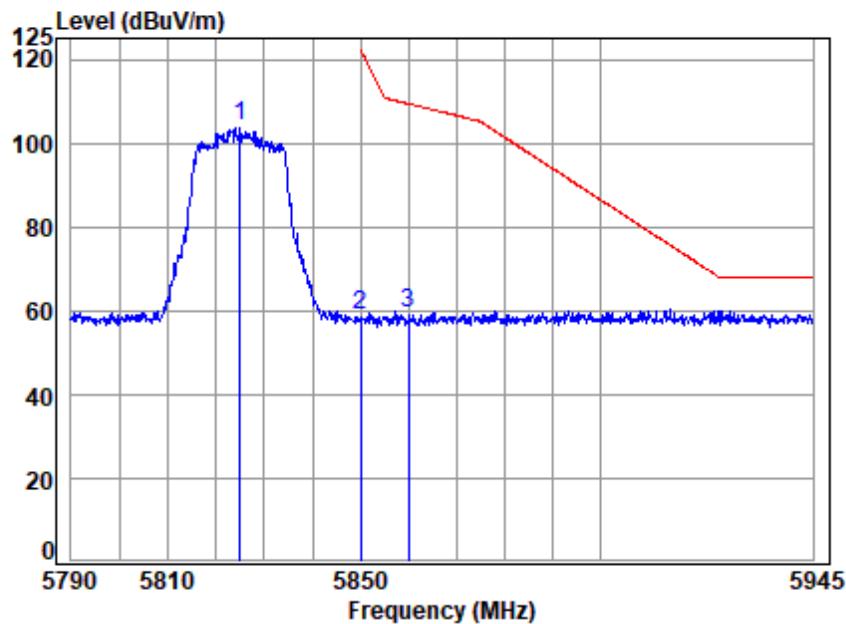
Site : chamber  
Condition: 3m VERTICAL  
Job No : 11613CR  
Mode : 5745 Band edge  
: 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5715.000	8.22	34.82	42.42	57.04	57.66	109.40	-51.74 peak
2 5725.000	8.22	34.83	42.41	57.79	58.43	122.20	-63.77 peak
3 5745.000	8.22	34.85	42.40	101.06	101.73	-----	----- peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



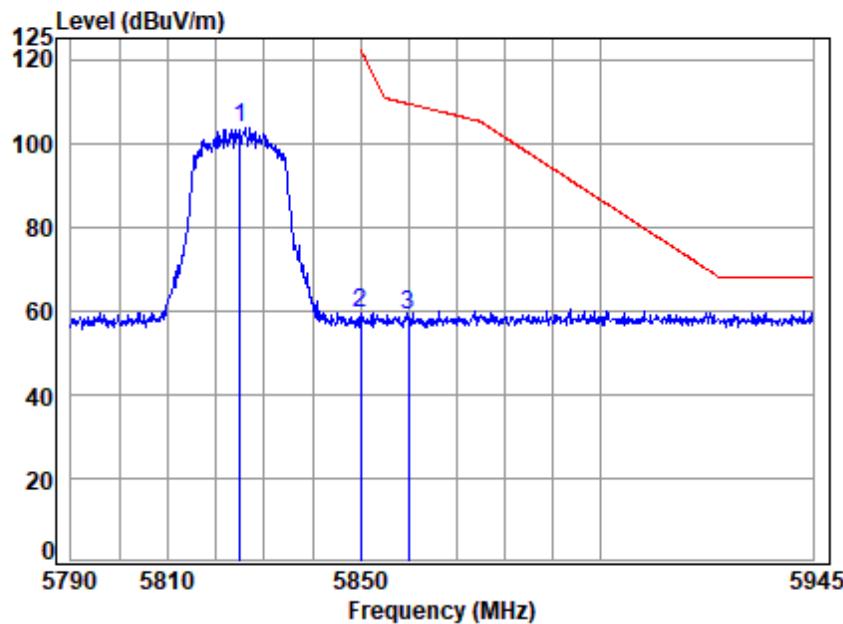
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 11613CR  
Mode : 5825 Band edge  
: 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	8.23	34.93	42.35	103.09	103.90	-----	peak
2 5850.000	8.24	34.95	42.33	58.21	59.07	122.20	-63.13 peak
3 5860.000	8.24	34.96	42.33	58.58	59.45	109.40	-49.95 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 11613CR  
Mode : 5825 Band edge  
: 5G WIFI 11AC20

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5825.000	8.23	34.93	42.35	102.82	103.63	-----	peak
2 5850.000	8.24	34.95	42.33	58.53	59.39	122.20	-62.81 peak
3 5860.000	8.24	34.96	42.33	58.27	59.14	109.40	-50.26 peak

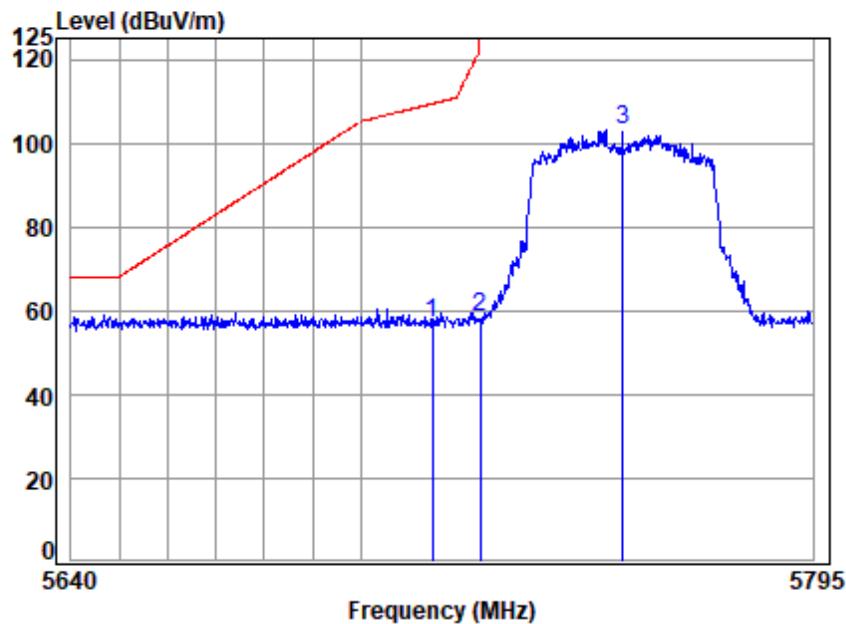
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Services Laboratory

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



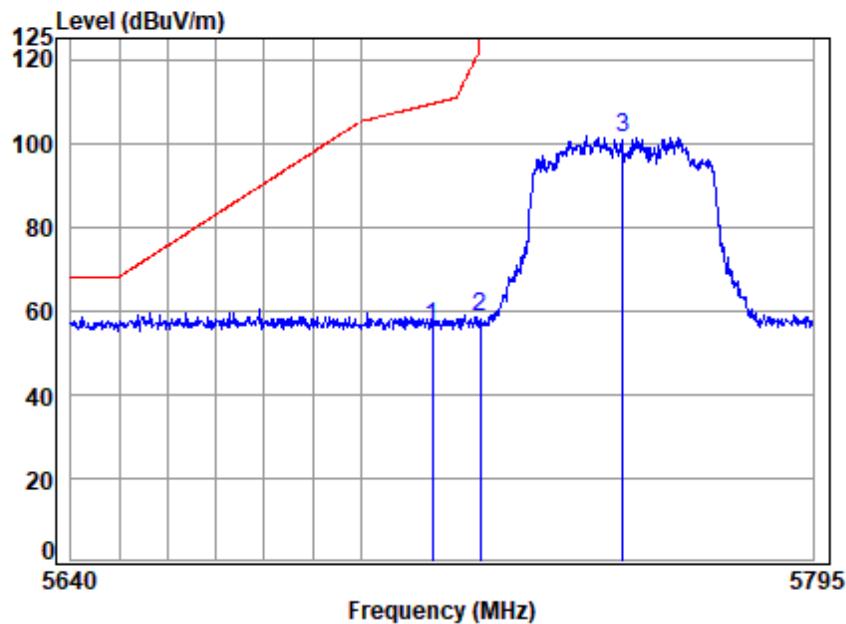
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 11613CR  
Mode : 5755 Band edge  
: 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5715.000	8.22	34.82	42.42	56.20	56.82	109.40	-52.58 peak
2 5725.000	8.22	34.83	42.41	57.72	58.36	122.20	-63.84 peak
3 5755.000	8.22	34.86	42.39	102.25	102.94	-----	----- peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low



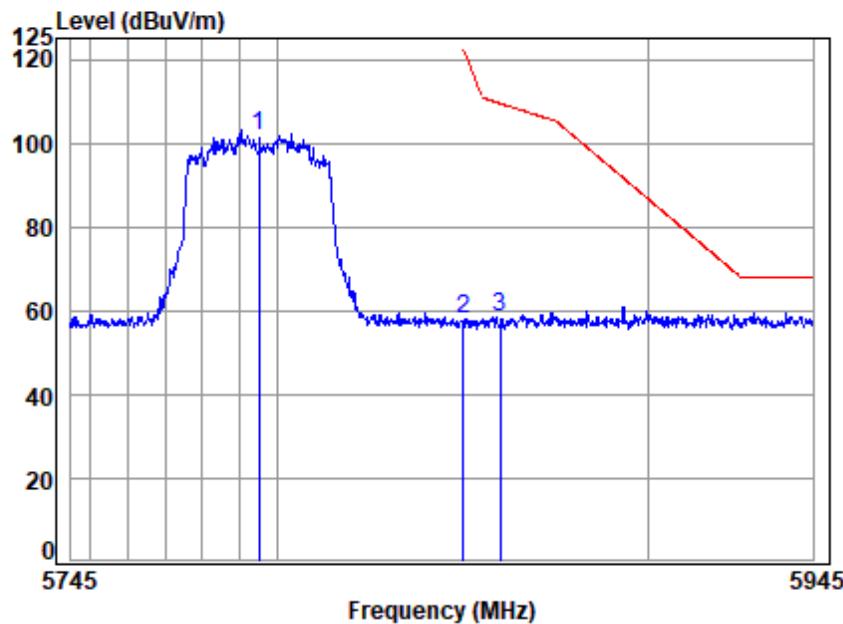
Site : chamber  
Condition: 3m VERTICAL  
Job No : 11613CR  
Mode : 5755 Band edge  
: 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5715.000	8.22	34.82	42.42	55.55	56.17	109.40	-53.23 peak
2 5725.000	8.22	34.83	42.41	57.70	58.34	122.20	-63.86 peak
3 5755.000	8.22	34.86	42.39	100.39	101.08	-----	----- peak

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



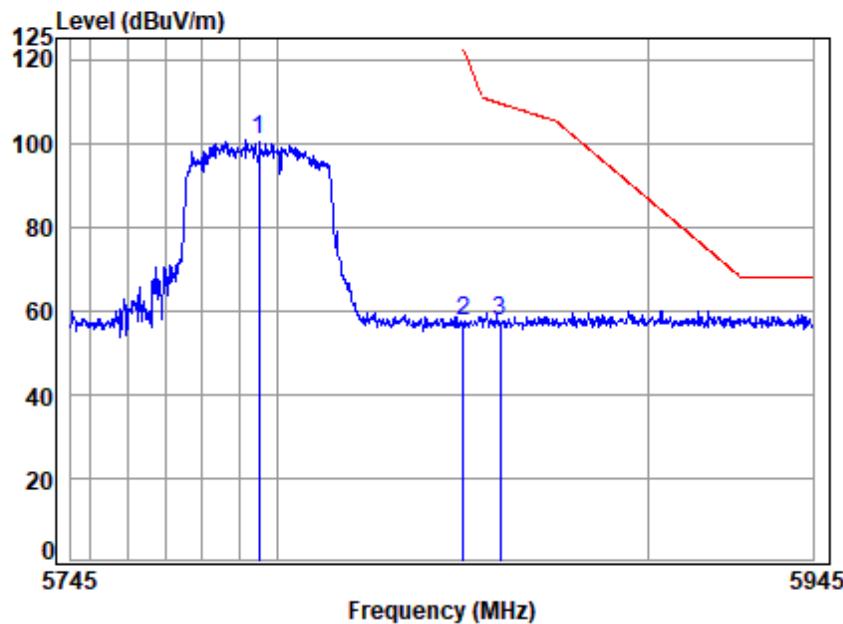
Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 11613CR  
Mode : 5795 Band edge  
: 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5795.000	8.23	34.90	42.37	100.81	101.57	-----	peak
2 5850.000	8.24	34.95	42.33	57.27	58.13	122.20	-64.07 peak
3 5860.000	8.24	34.96	42.33	57.52	58.39	109.40	-51.01 peak

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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber  
Condition: 3m VERTICAL  
Job No : 11613CR  
Mode : 5795 Band edge  
: 5G WIFI 11AC40

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5795.000	8.23	34.90	42.37	99.87	100.63	-----	peak
2 5850.000	8.24	34.95	42.33	56.50	57.36	122.20	-64.84 peak
3 5860.000	8.24	34.96	42.33	56.49	57.36	109.40	-52.04 peak

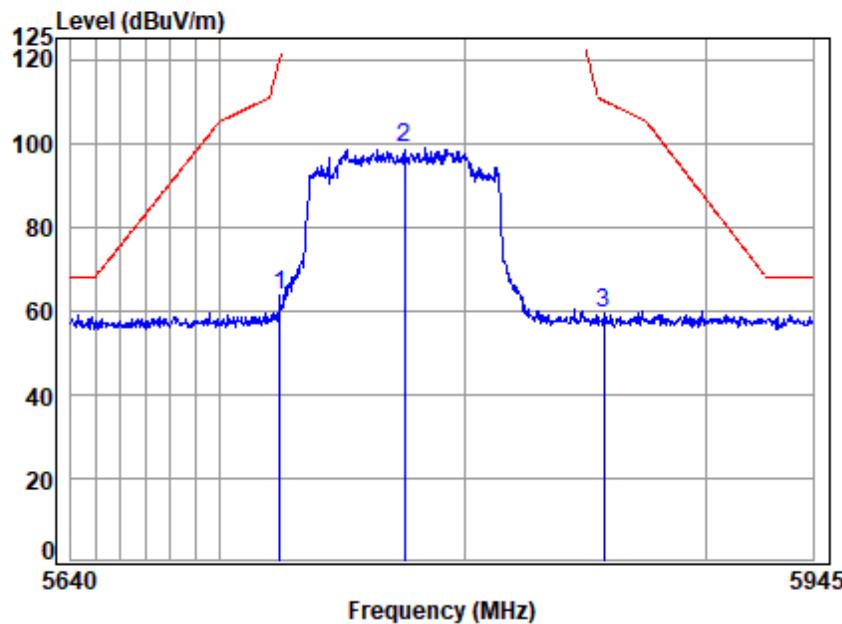
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 11613CR  
Mode : 5775 Band edge  
: 5G WIFI 11AC80

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5724.088	8.22	34.83	42.41	62.87	63.51	120.12	-56.61 peak
2 5775.000	8.22	34.88	42.38	98.22	98.94	-----	----- peak
3 5857.666	8.24	34.96	42.33	58.39	59.26	110.05	-50.79 peak

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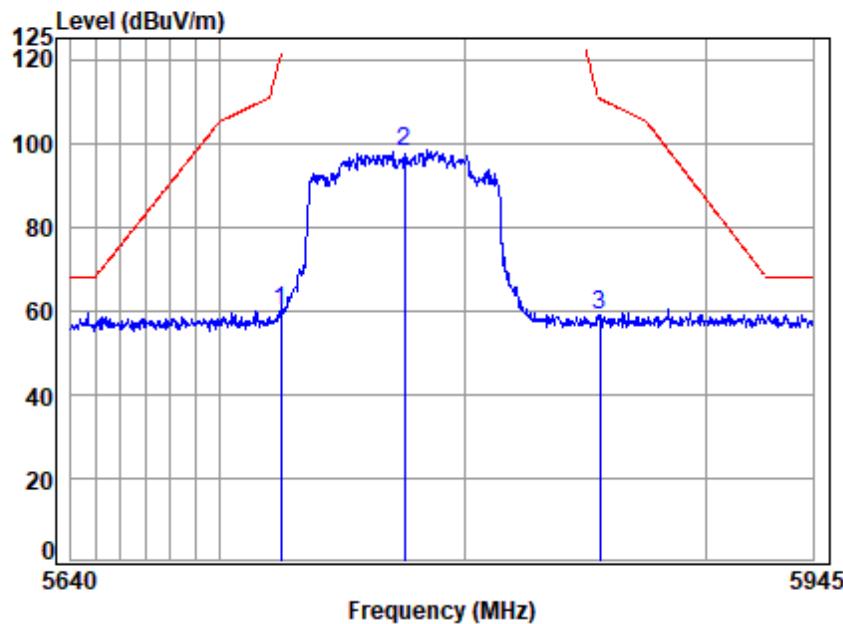
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber  
Condition: 3m VERTICAL  
Job No : 11613CR  
Mode : 5775 Band edge  
: 5G WIFI 11AC80

Freq	Cable	Ant	Preamp	Read	Limit	Over	Remark
	Loss	Factor	Factor	Level			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 5724.691	8.22	34.83	42.41	59.27	59.91	121.50	-61.59 peak
2 5775.000	8.22	34.88	42.38	97.14	97.86	-----	----- peak
3 5855.815	8.24	34.96	42.33	58.24	59.11	110.57	-51.46 peak

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**7.9 Minimum 6 dB bandwidth (5.725-5.85 GHz band )**

Test Requirement 47 CFR Part 15, Subpart C 15.407 (e)

Test Method: KDB 789033 D02 II C 2

Limit:

Frequency band(MHz)	Limit
5725-5850	≥500 kHz

**7.9.1 E.U.T. Operation**

Operating Environment:

Temperature: 22.8 °C      Humidity: 56.9 % RH      Atmospheric Pressure: 1010 mbar

**7.9.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

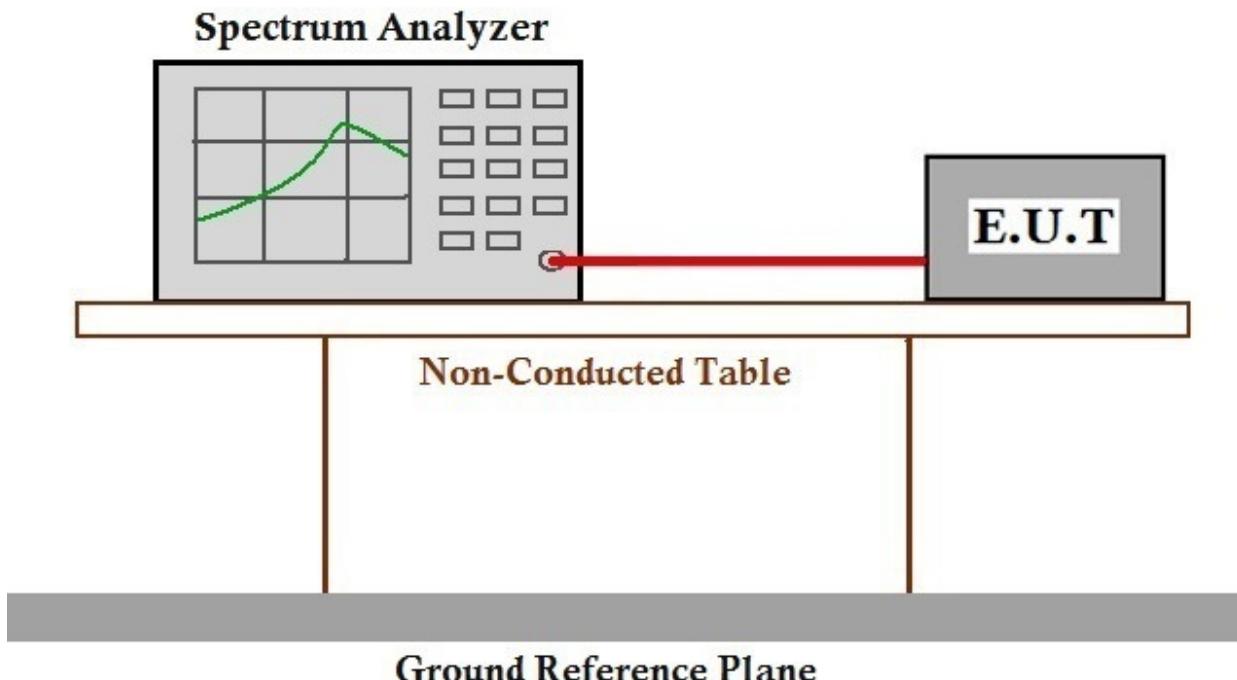
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**7.9.3 Test Setup Diagram****7.9.4 Measurement Procedure and Data**

Please Refer To Appendix For Details

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## 7.1 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart C 15.407 (g)

Test Method: ANSI C63.10 (2013) Section 6.8

### 7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

Humidity: 56.9 % RH

Atmospheric Pressure: 1010 mbar

### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode (U-NII-1)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.
Final test	07	TX mode (U-NII-3)_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n(HT20); data rate @ MCS0 is the worst case of IEEE 802.11n(HT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT20); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT40); data rate @ MCS0 is the worst case of IEEE 802.11ac(VHT80). Only the data of worst case is recorded in the report.

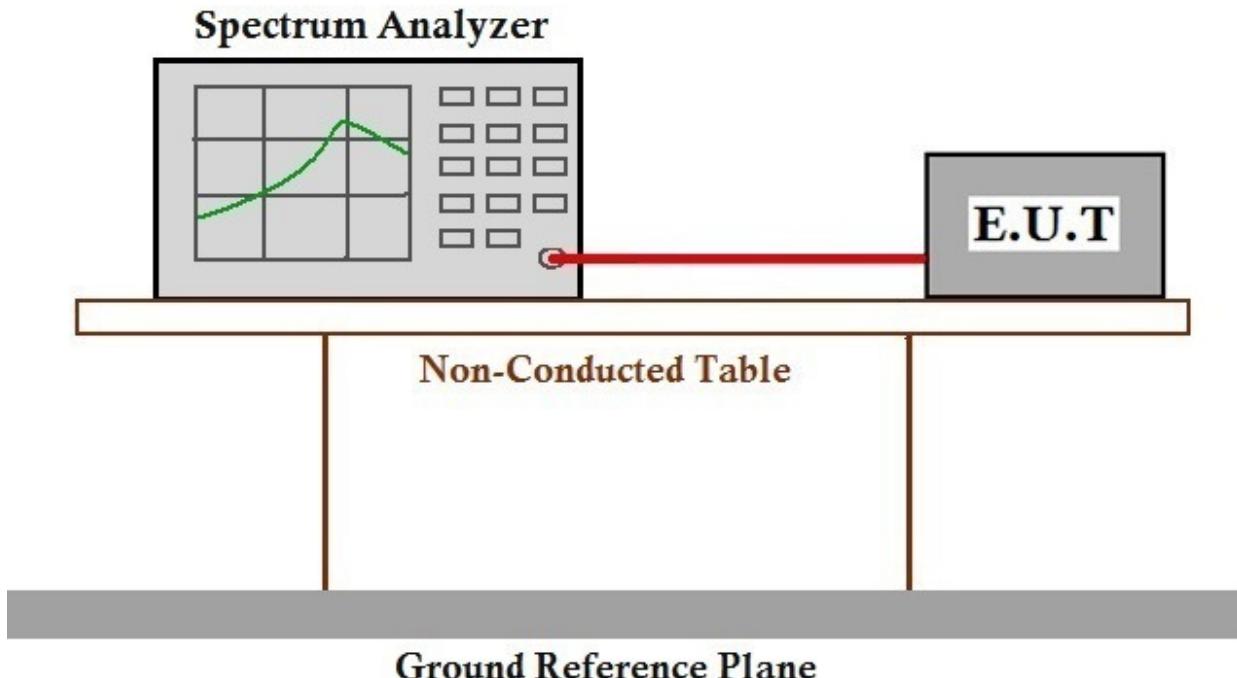
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**7.1.3 Test Setup Diagram****7.1.4 Measurement Procedure and Data**

Please Refer To Appendix For Details



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## 8 Test Setup Photo

Refer to Setup Photos

## 9 EUT Constructional Details (EUT Photos)

Refer to EUT External and Internal photos



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## 10 Appendix

### Appendix for 15.407

#### 1. Duty Cycle

##### 1.1 Test Result

Test Mode	Channel Frequency (MHz)	TX Type	ANT No.	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11a	5180	SISO	1	2.061	2.294	89.84	0.47
	5200	SISO	1	2.064	2.278	90.61	0.43
	5240	SISO	1	2.064	2.284	90.37	0.44
	5745	SISO	1	2.064	2.295	89.93	0.46
	5785	SISO	1	2.064	2.268	91.01	0.41
	5825	SISO	1	2.064	2.277	90.65	0.43
802.11n(HT20)	5180	MIMO	1	1.893	2.121	89.25	0.49
	5200	MIMO	1	1.893	2.104	89.97	0.46
	5240	MIMO	1	1.891	2.103	89.92	0.46
	5745	MIMO	1	1.891	2.111	89.58	0.48
	5785	MIMO	1	1.890	2.120	89.15	0.50
	5825	MIMO	1	1.892	2.120	89.25	0.49
802.11n(HT40)	5190	MIMO	1	0.945	1.175	80.43	0.95
	5230	MIMO	1	0.945	1.167	80.98	0.92
	5755	MIMO	1	0.943	1.264	74.60	1.27
	5795	MIMO	1	0.943	1.157	81.50	0.89
802.11ac(VHT20)	5180	MIMO	1	1.905	2.155	88.40	0.54
	5200	MIMO	1	1.904	2.148	88.64	0.52
	5240	MIMO	1	1.932	2.133	90.58	0.43
	5745	MIMO	1	1.905	2.158	88.28	0.54
	5785	MIMO	1	1.904	2.148	88.64	0.52
	5825	MIMO	1	1.902	2.155	88.26	0.54
802.11ac(VHT40)	5190	MIMO	1	0.951	1.171	81.21	0.90
	5230	MIMO	1	0.952	1.208	78.81	1.03
	5755	MIMO	1	0.952	1.207	78.87	1.03
	5795	MIMO	1	0.952	1.206	78.94	1.03
802.11ac(VHT80)	5210	MIMO	1	0.439	0.665	66.02	1.80
	5775	MIMO	1	0.440	0.657	66.97	1.74

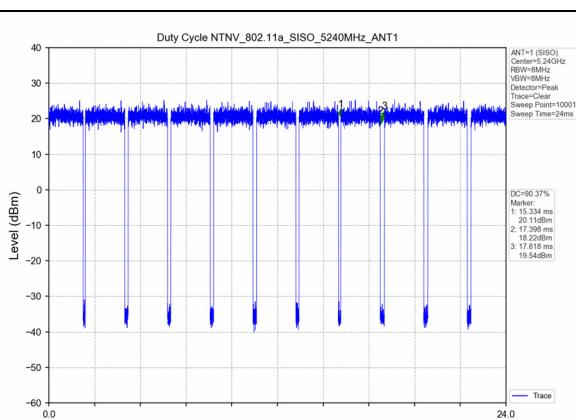
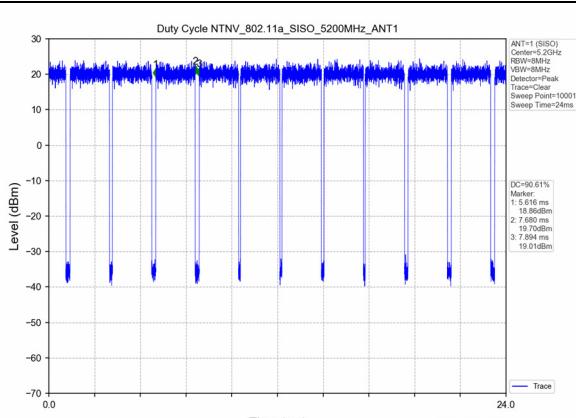
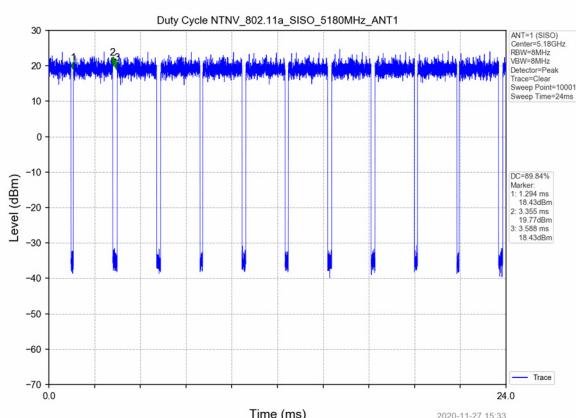
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**1.2 Test Graph**

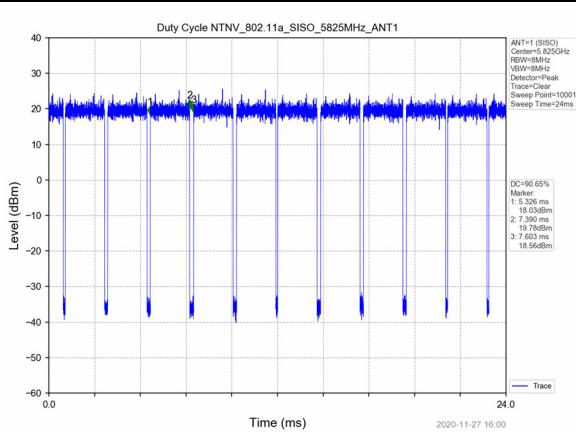
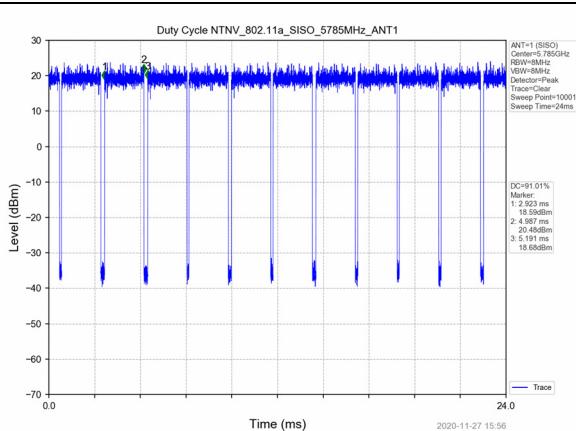
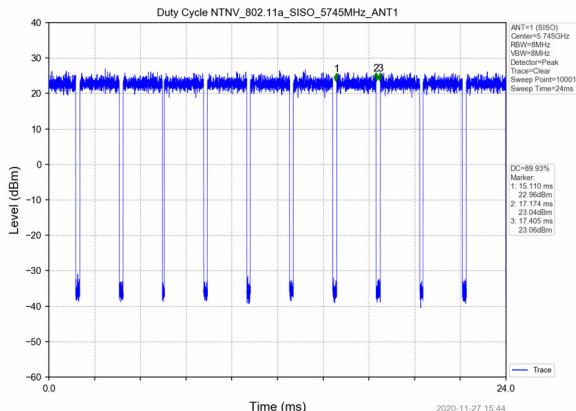
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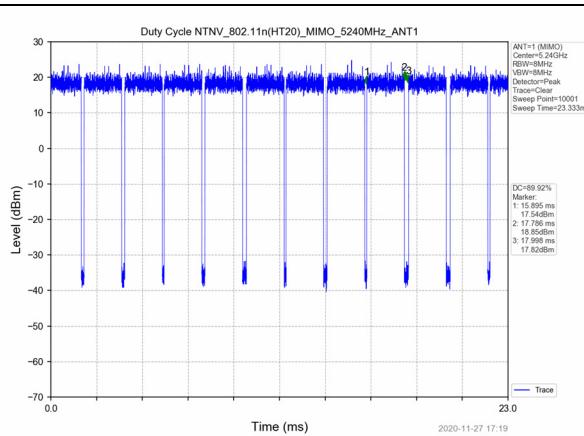
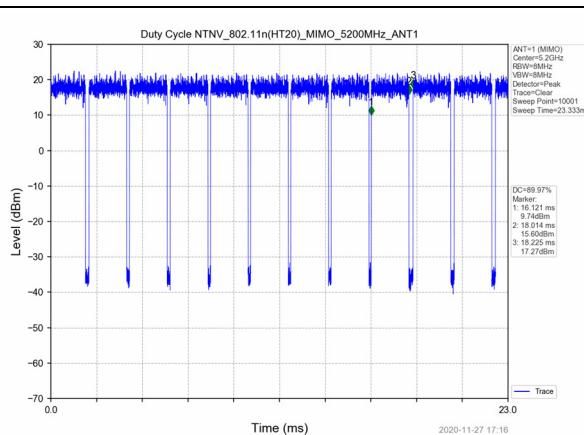
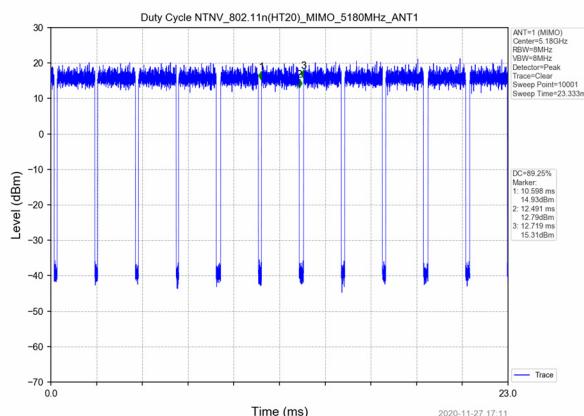
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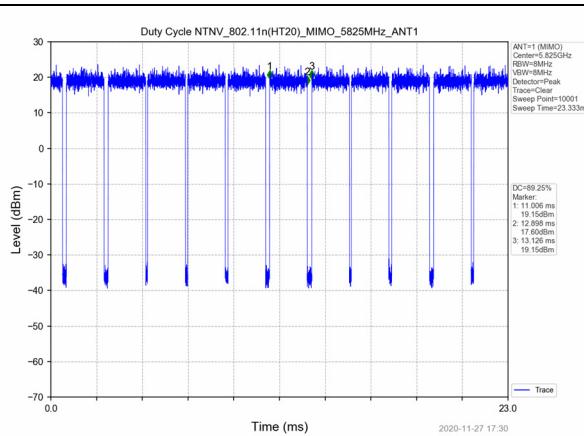
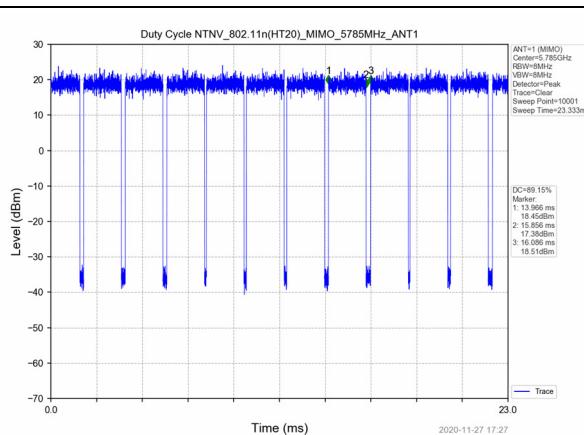
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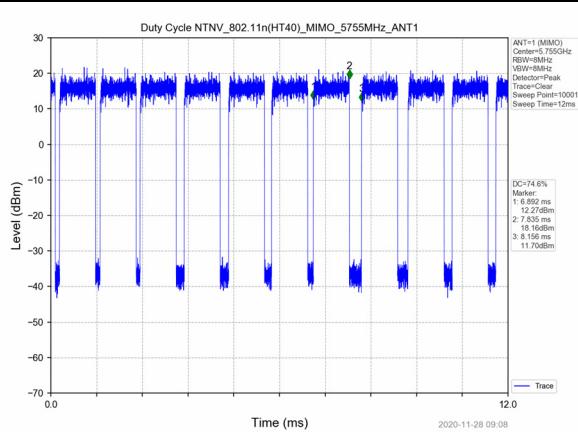
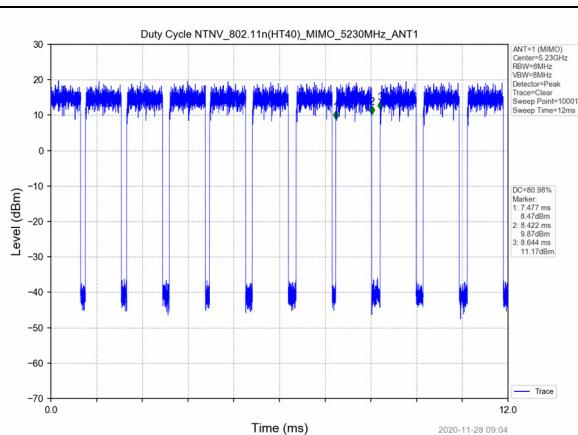
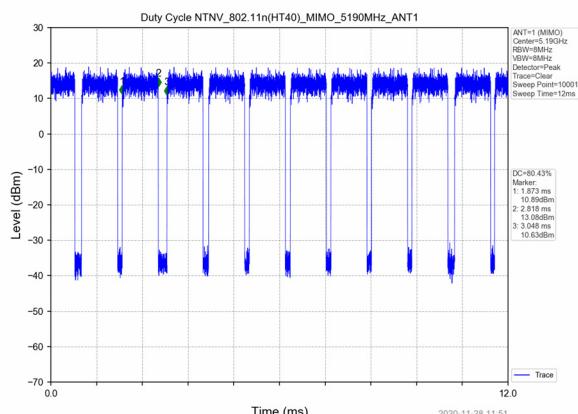
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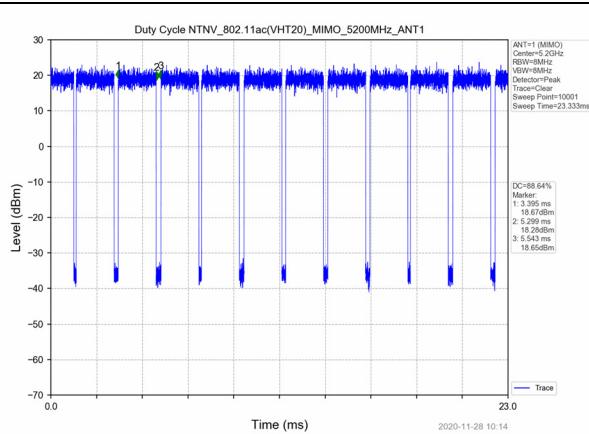
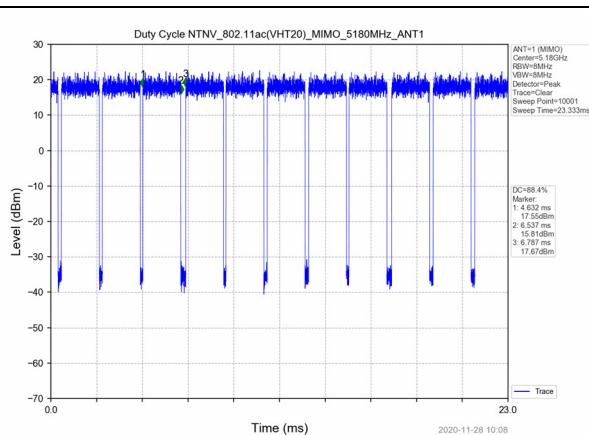
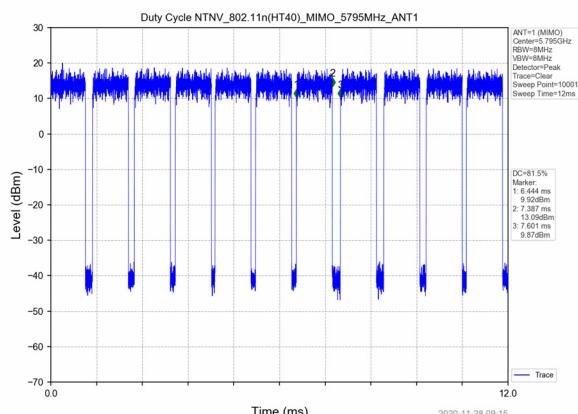
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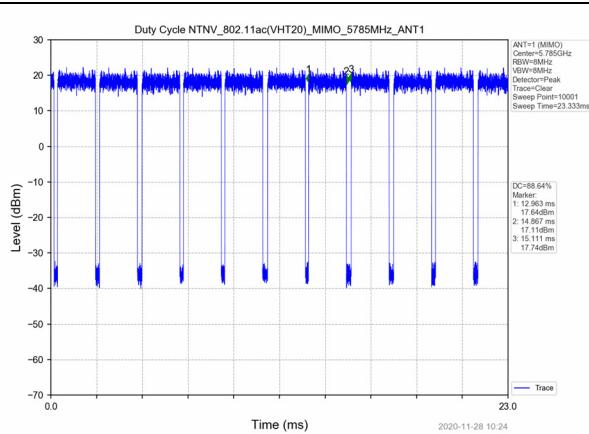
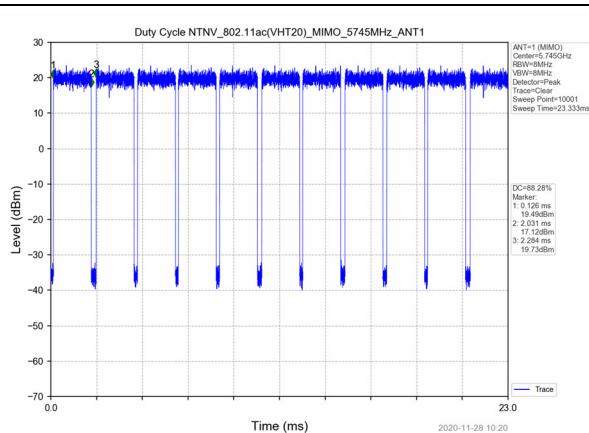
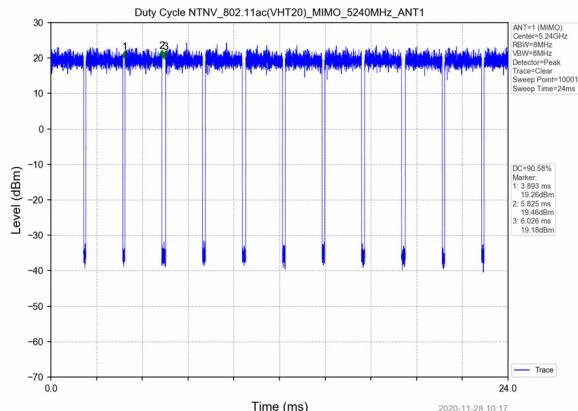
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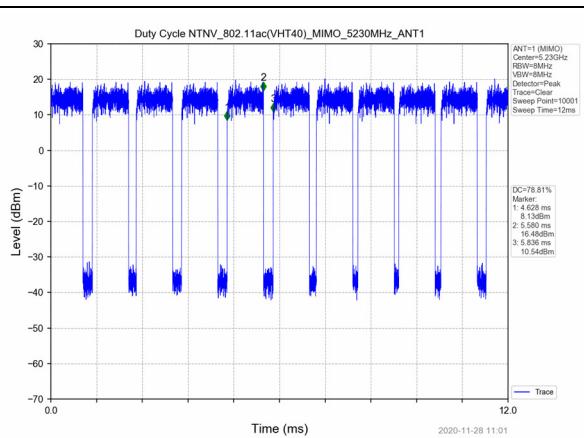
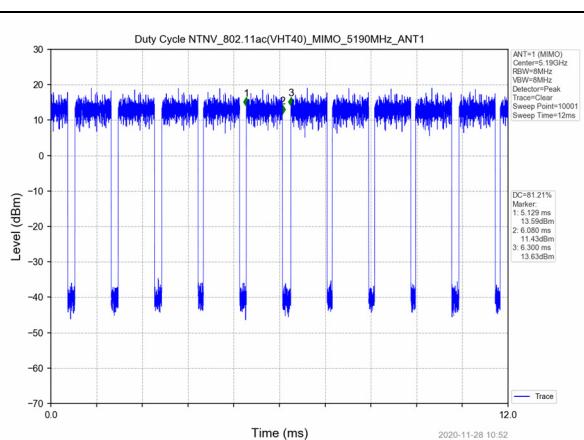
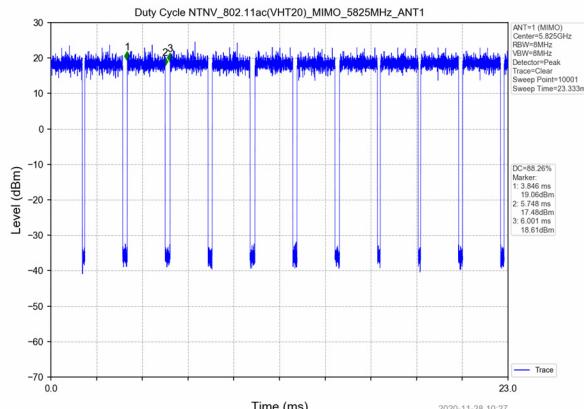
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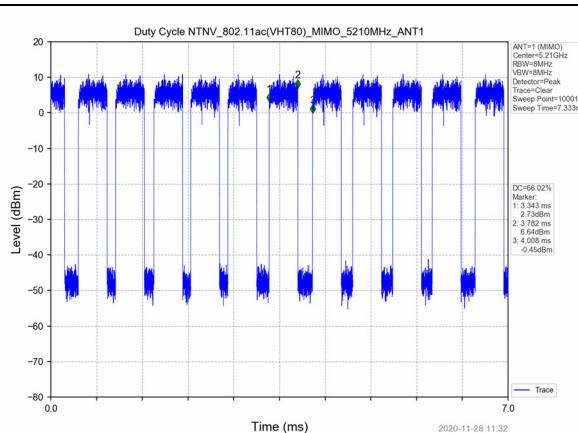
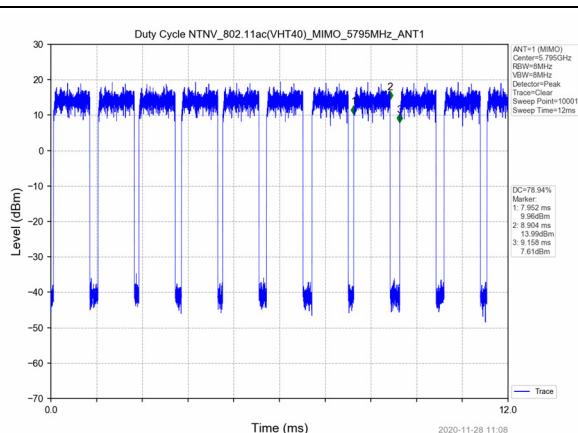
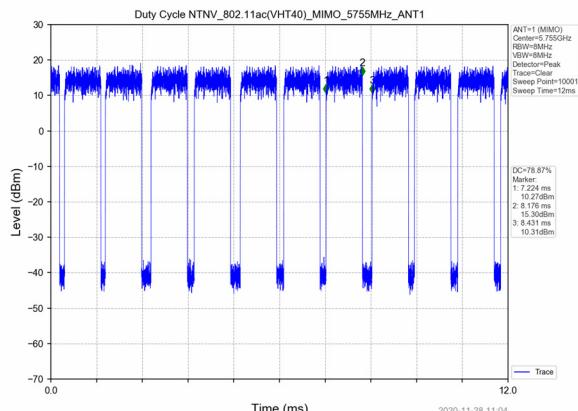
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