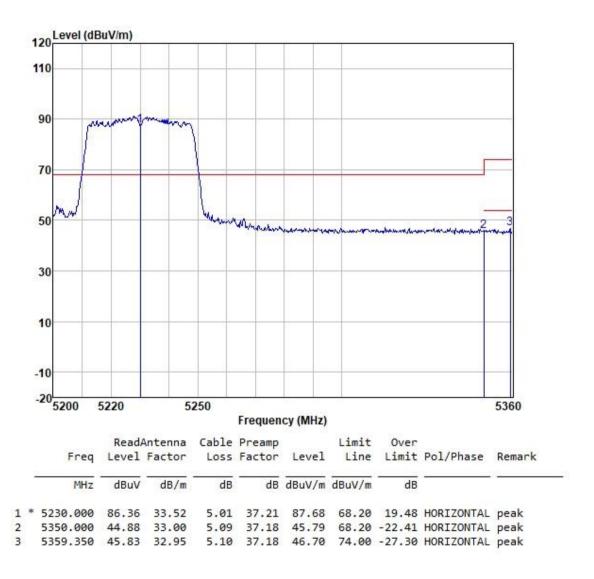


EMC-TRF-01 Rev 1.1 Report No.: GZCR240600076006

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Test Mode: 04; Polarity: Horizontal; Modulation:802.11n; Bandwidth:40MHz; Channel:High





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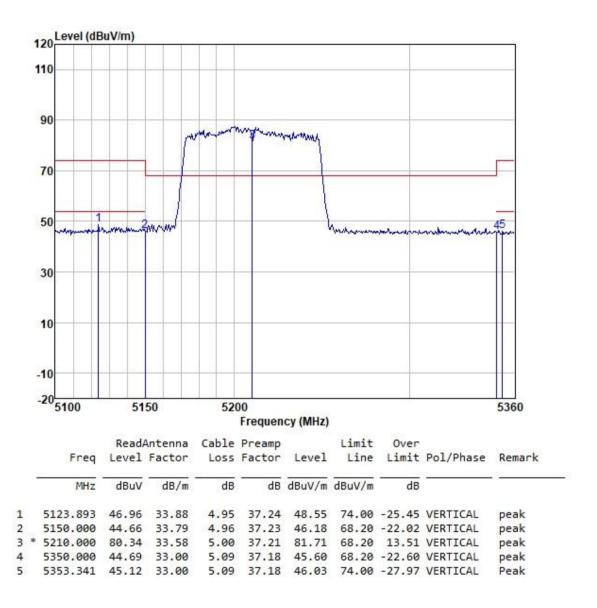
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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz





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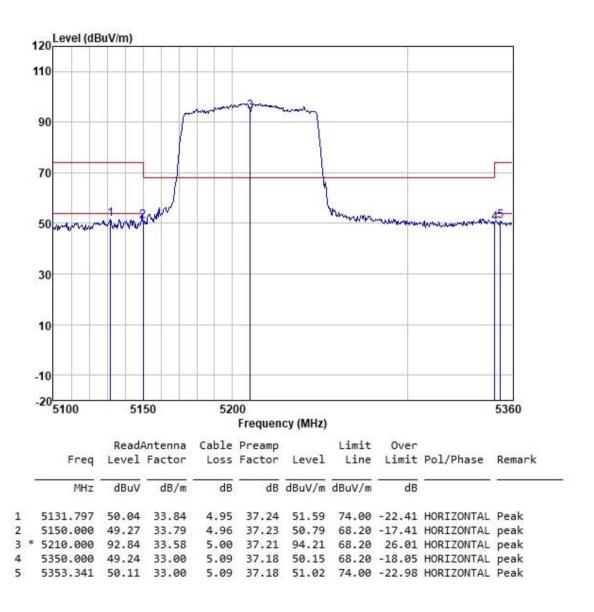
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Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz





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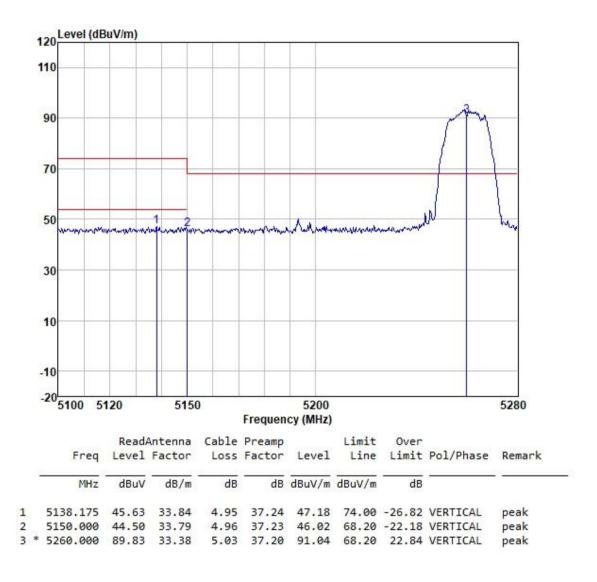
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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





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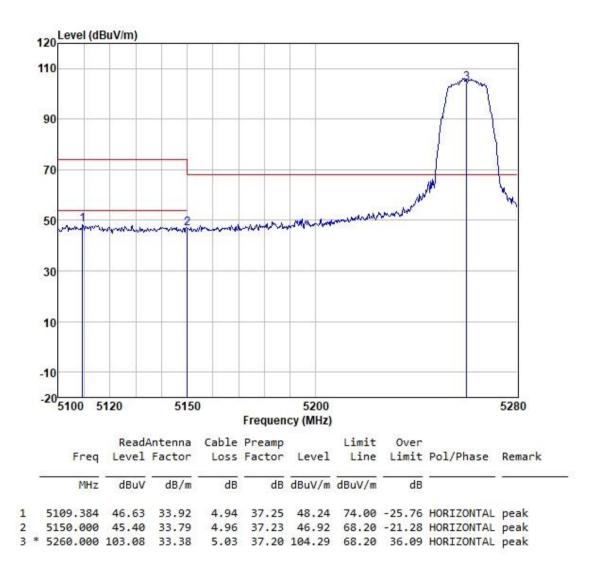
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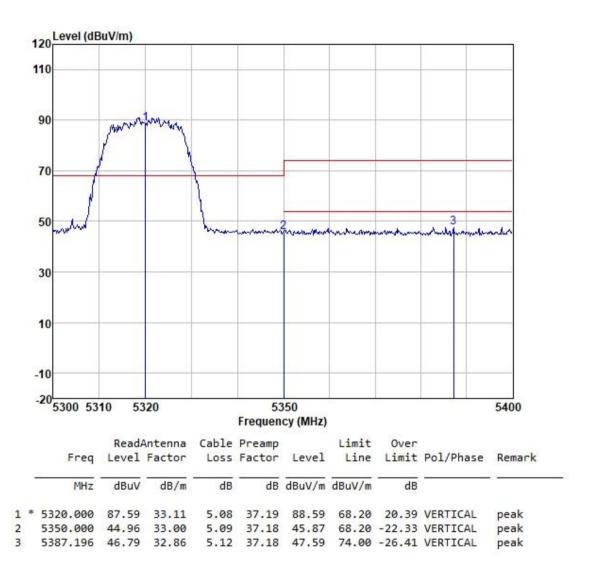
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Test Mode: 05; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High





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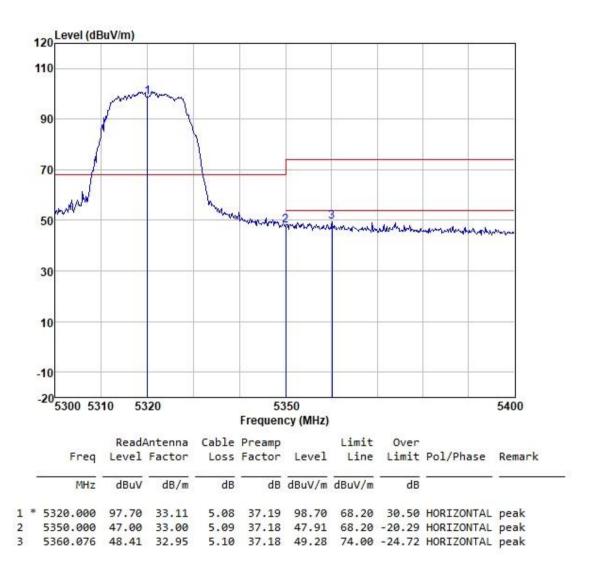
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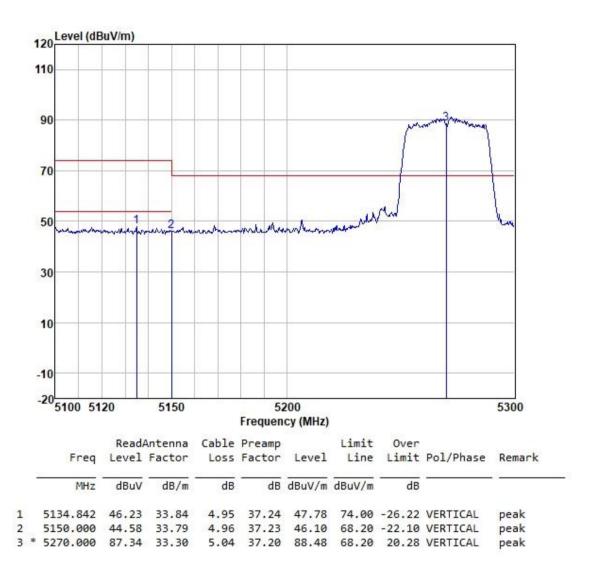
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Test Mode: 05; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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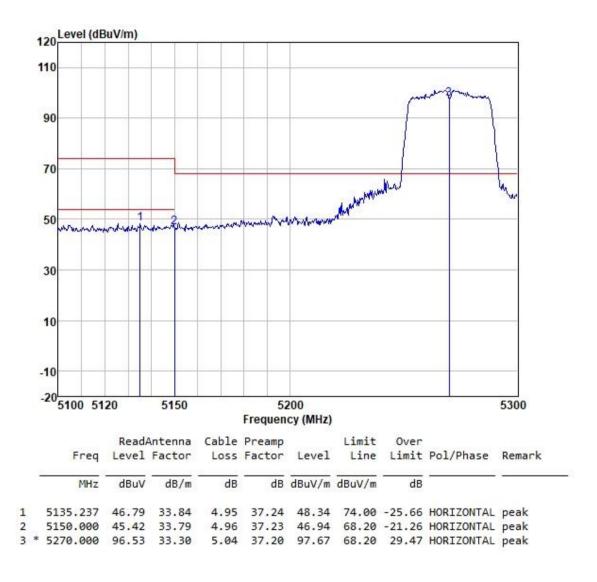
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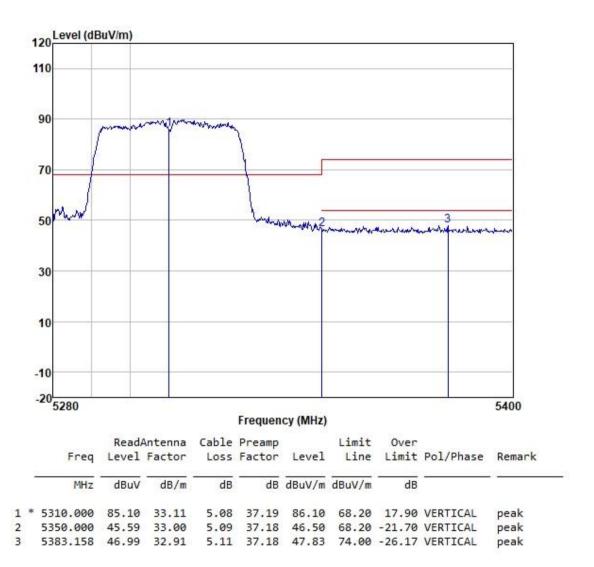
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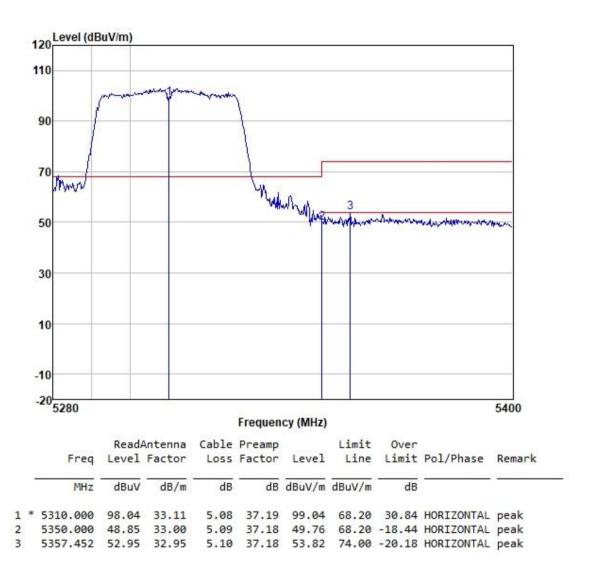
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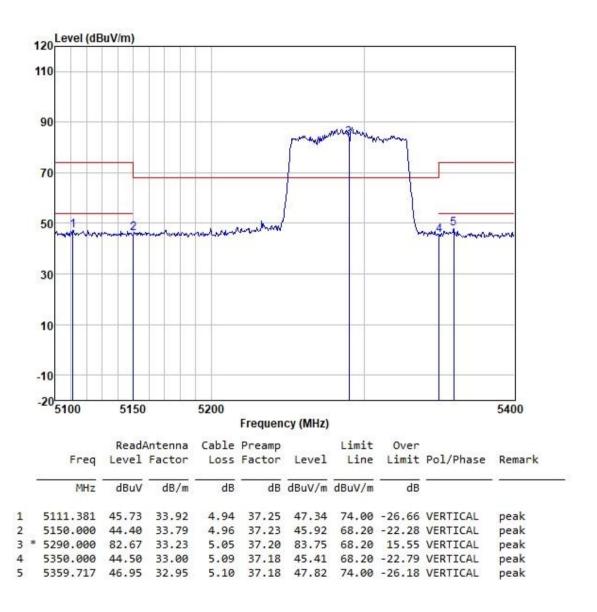
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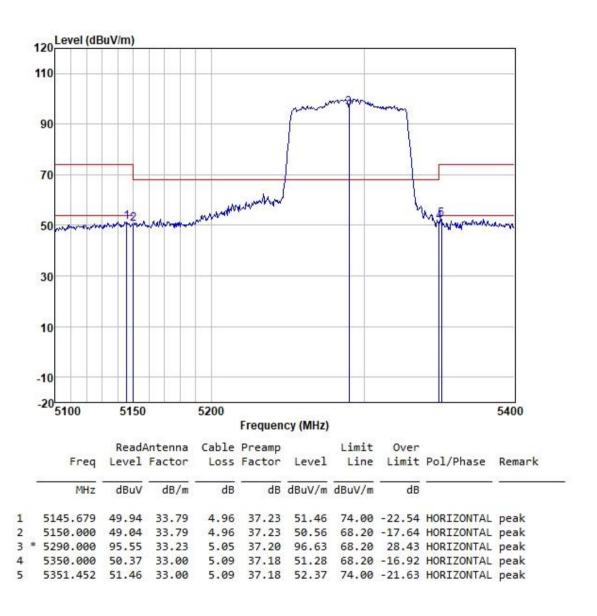
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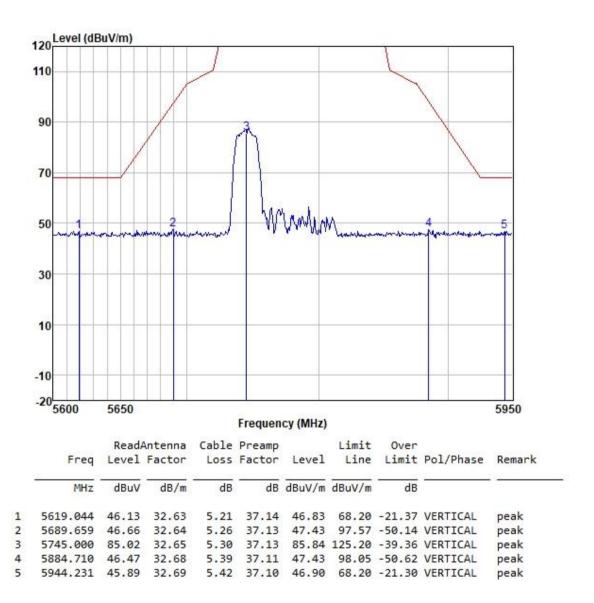
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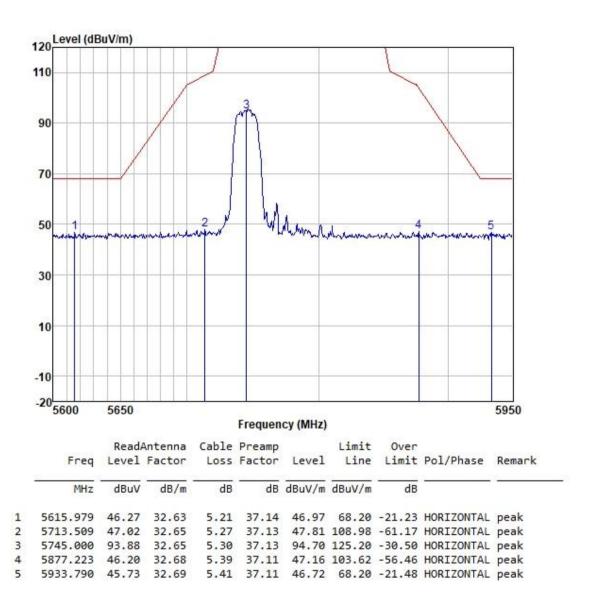
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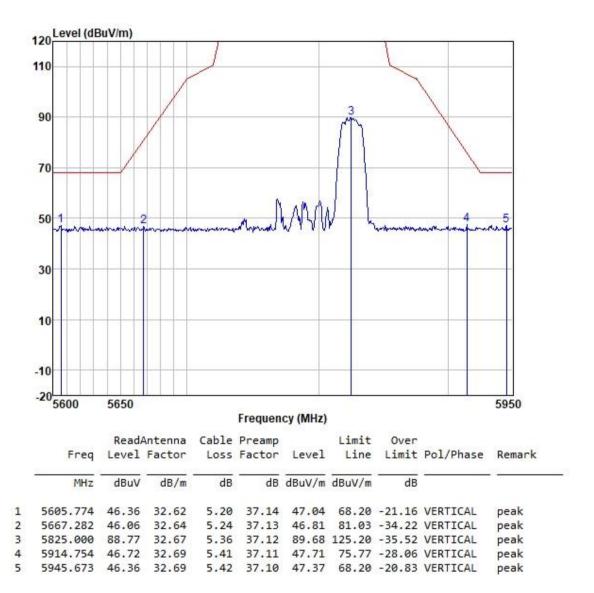
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Test Mode: 07; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High





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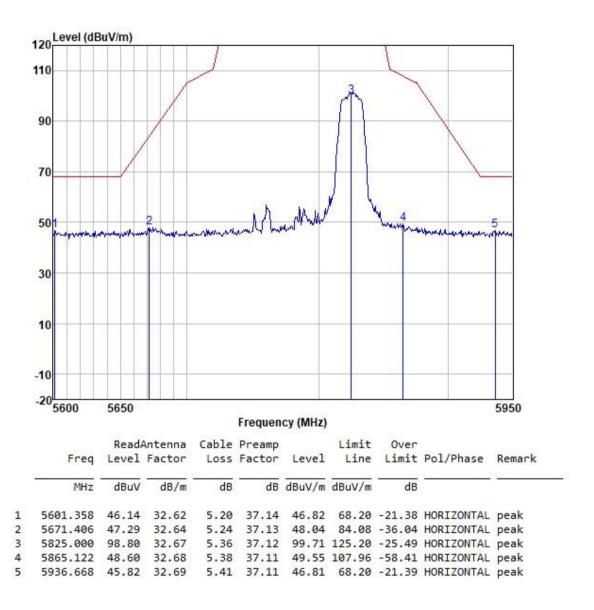
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Test Mode: 07; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High





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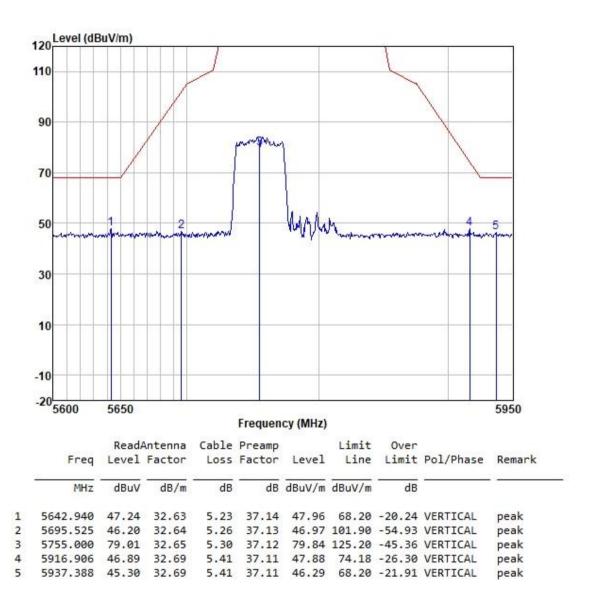
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Test Mode: 07; Polarity: Vertical; Modulation:802.11n; Bandwidth:40MHz; Channel:Low





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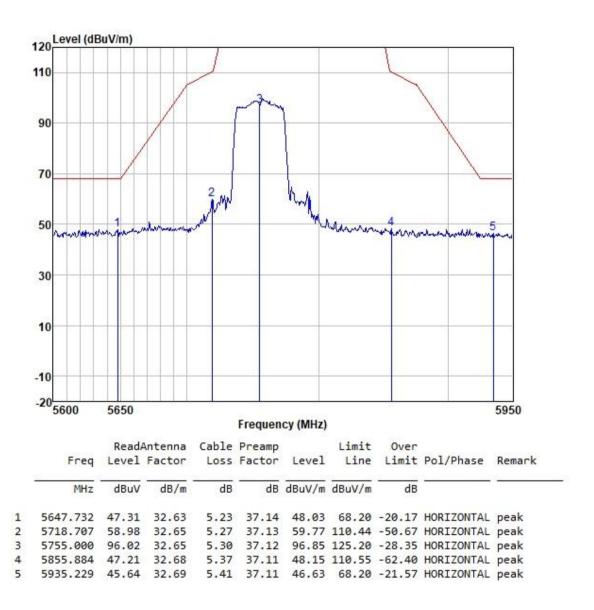
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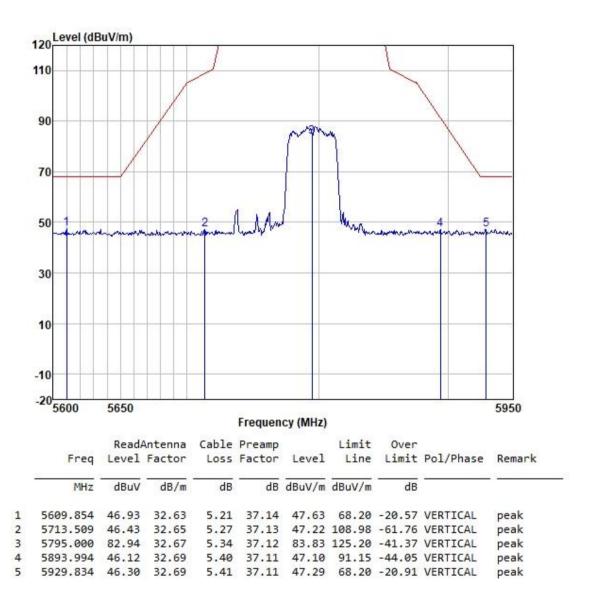
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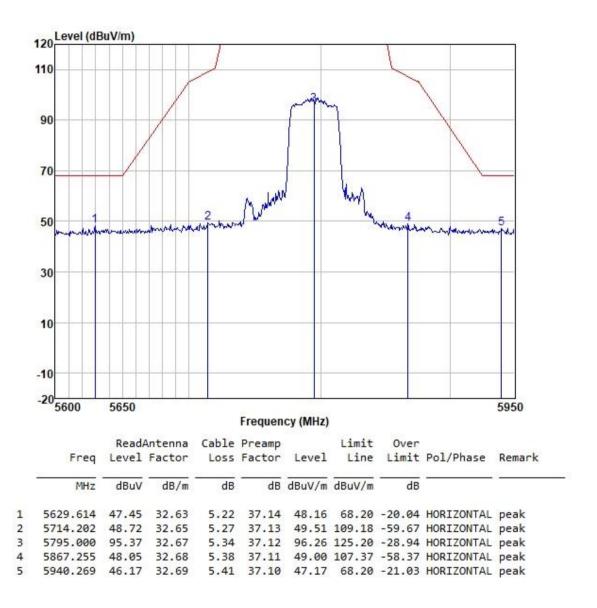
检验检测专用章

nspection & Testing Services

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





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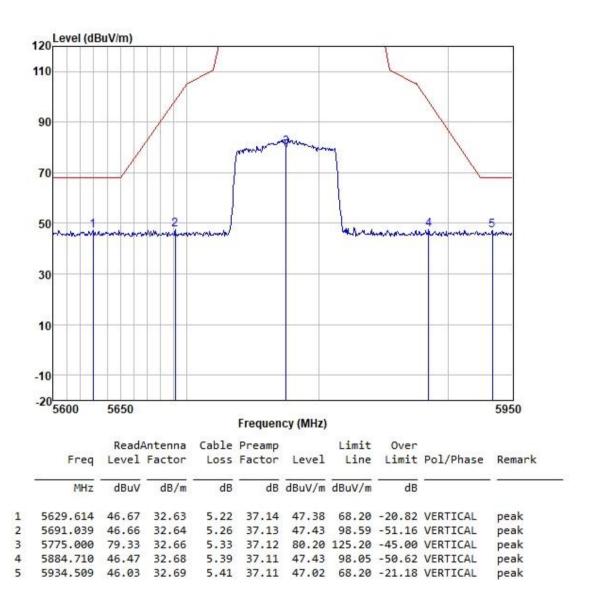
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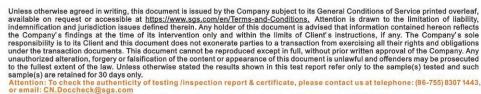
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Test Mode: 07; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz





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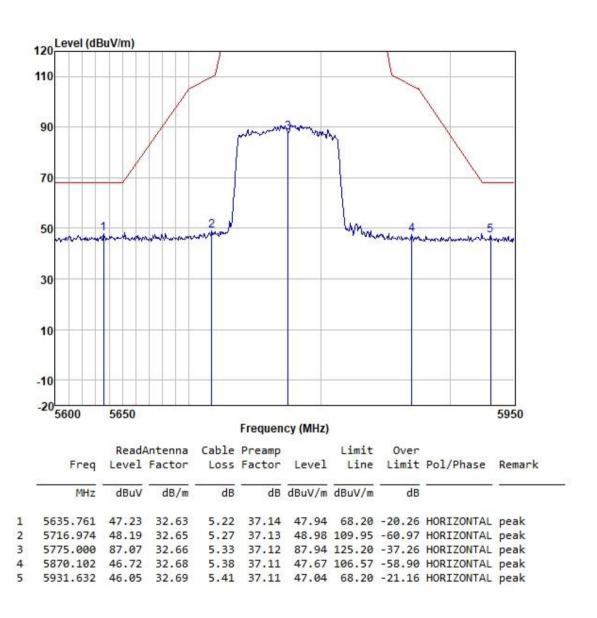
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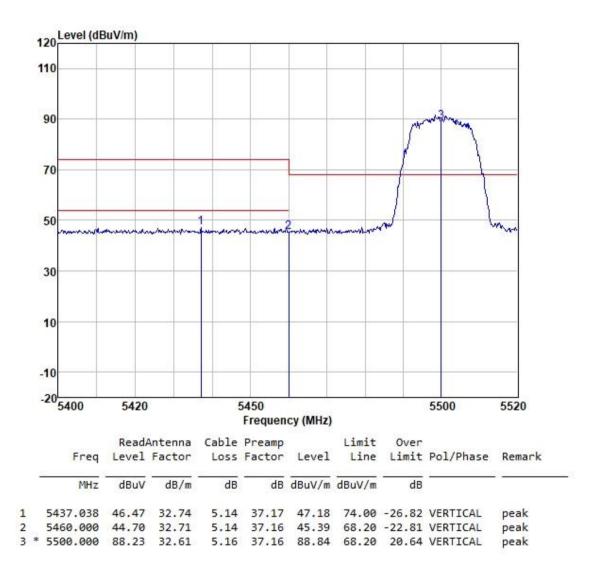
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Test Mode: 06; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low





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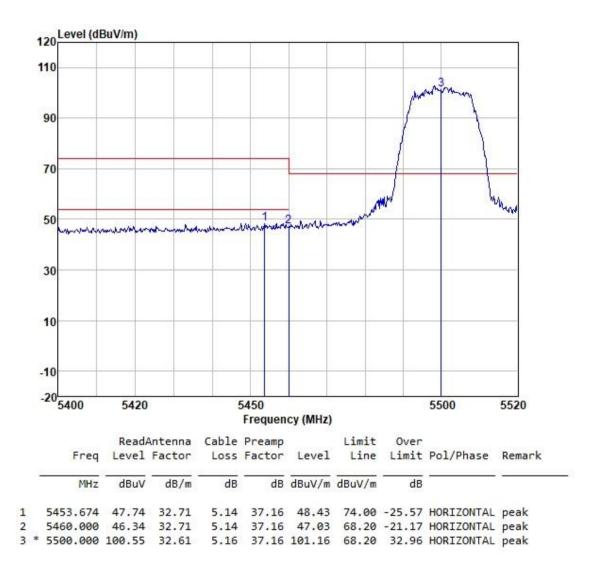
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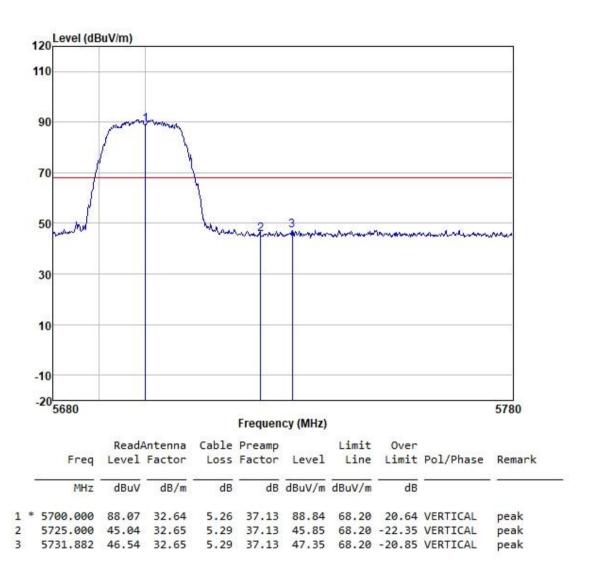
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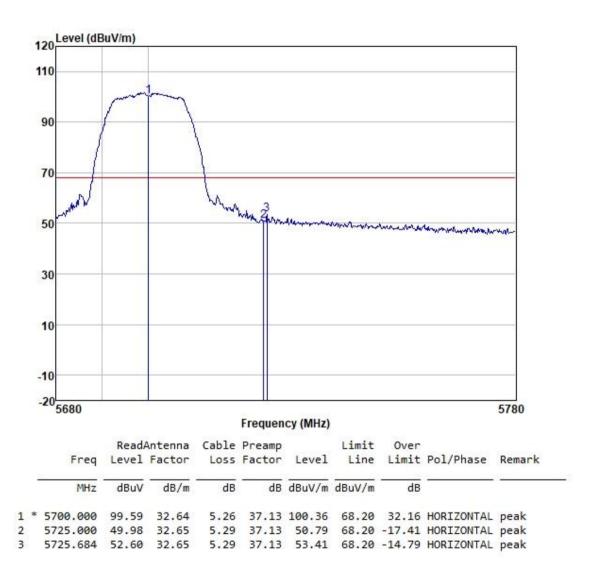
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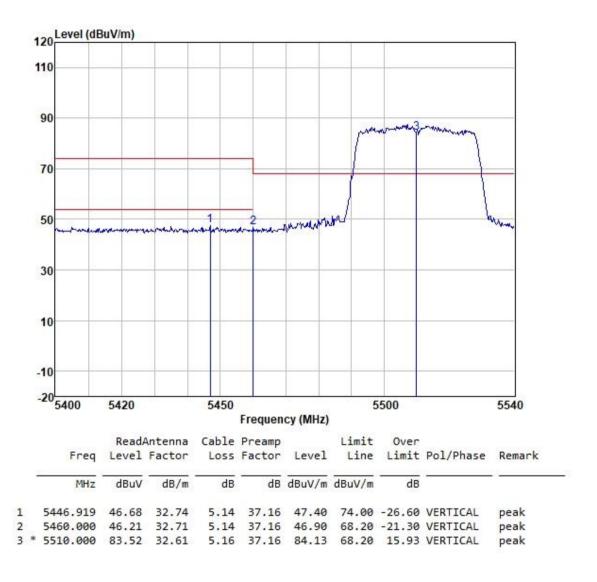
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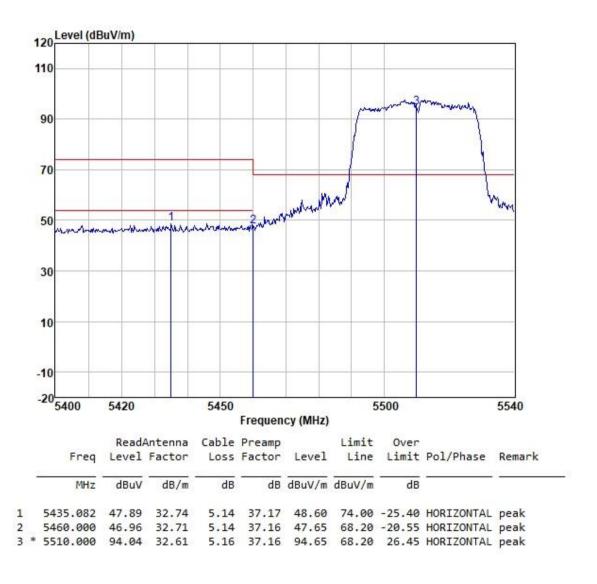
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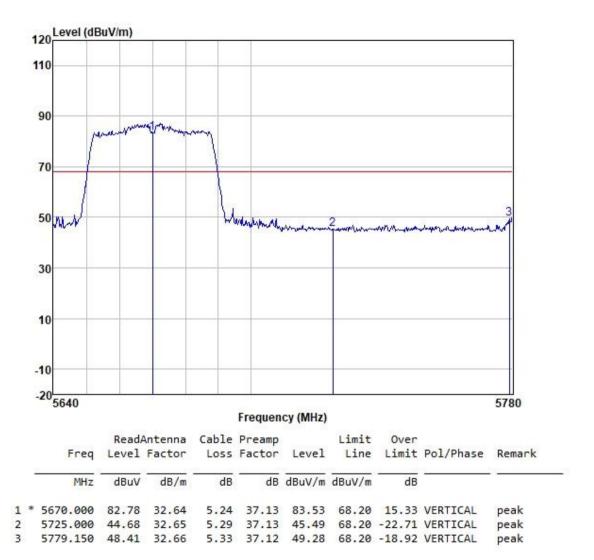
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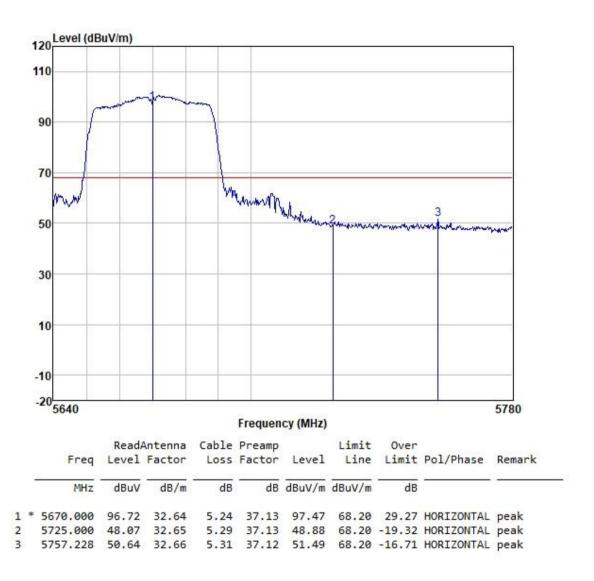
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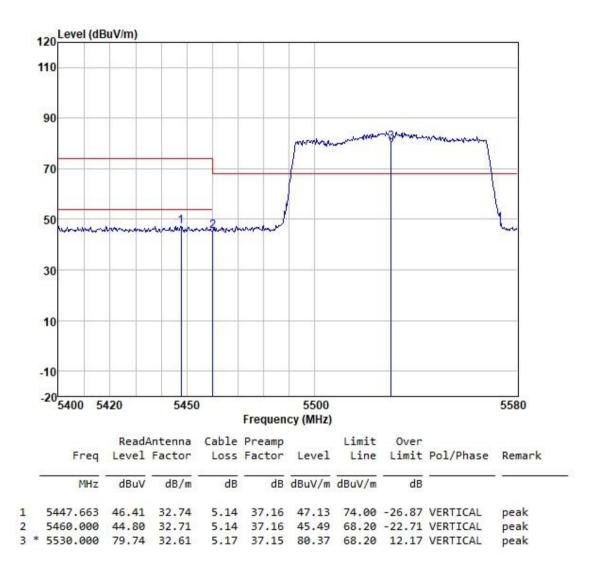
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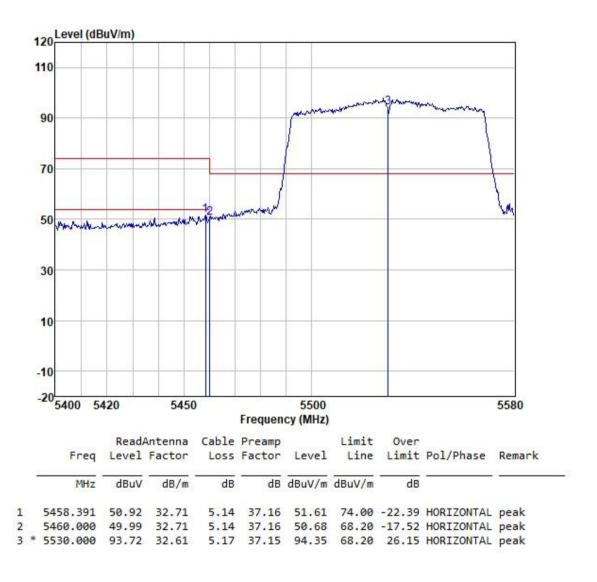
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low





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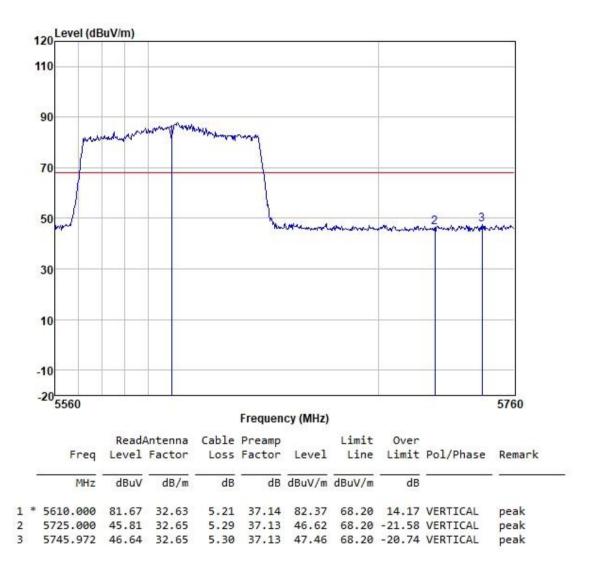
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Test Mode: 06; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High





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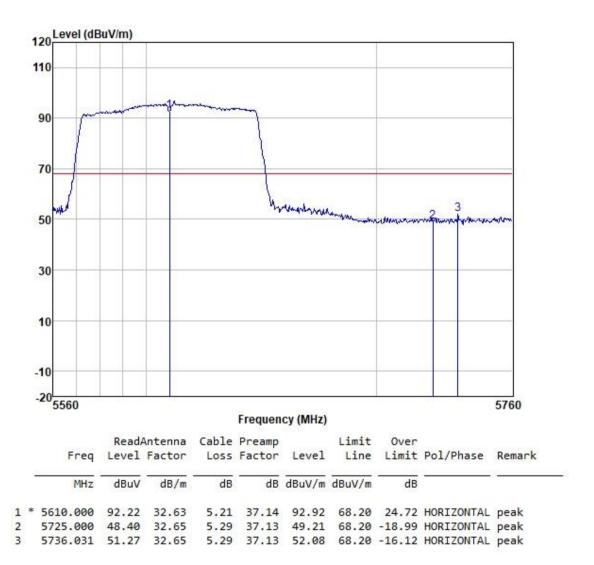
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Test Mode: 06; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High





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7.6 Duty Cycle

Test Requirement KDB 789033 D02 II B 1 Test Method: KDB 789033 D02 II B 1

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 52.7 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A) _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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C) _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/ac 20/40/80, 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/ac 20/40/80, Only the data of worst case is recorded in the report.



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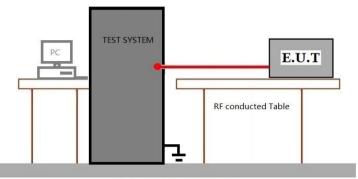
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### 7.6.3 Test Setup Diagram



Ground Reference Plane

#### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.7 99% Bandwidth

**Test Requirement** N/A

Test Method: KDB 789033 D02 II D

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 52.7 % RH Atmospheric Pressure: 1020 mbar

### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A) _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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C) _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/ac 20/40/80, 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/ac 20/40/80, Only the data of worst case is recorded in the report.



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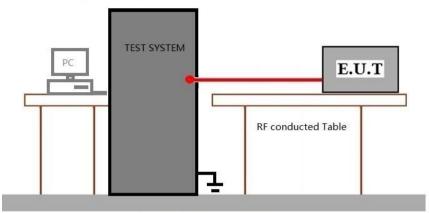
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### 7.7.3 Test Setup Diagram



Ground Reference Plane

#### 7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.8 26dB Emission bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: KDB 789033 D02 II C 1

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 52.7 % RH Atmospheric Pressure: 1020 mbar

### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A) _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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C) _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/ac 20/40/80, Only the data of worst case is recorded in the report.



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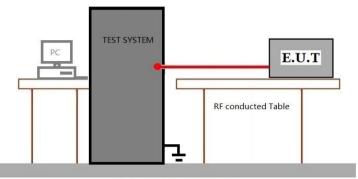
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### 7.8.3 Test Setup Diagram



Ground Reference Plane

#### 7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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

Test Requirement

47 CFR Part 15. Subpart E 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:

23.7 °C Humidity: 52.7 % RH Atmospheric Pressure: 1020 mbar Temperature:

### 7.9.2 Test Mode Description

Mode Pre-scan / Final test

Code

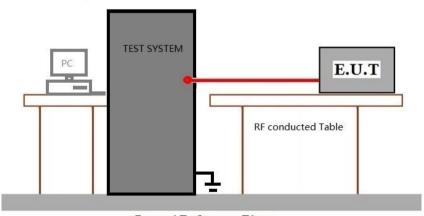
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Description

Final test

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/ac 20/40/80, Only the data of worst case is recorded in the report.

#### 7.9.3 Test Setup Diagram



Ground Reference Plane

### 7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.10 Peak Power spectrum density

47 CFR Part 15, Subpart E 15.407 (a) Test Requirement

KDB 789033 D02 II F Test Method:

Limit:

Frequency b	and(MHz)	Limit				
E150 5	:350	≤17dBm in 1MHz for master device				
5150-5	0250	≤11dBm in 1MHz for client device				
5250-5	350	≤11dBm in 1MHz for client device				
5470-5	725	≤11dBm in 1MHz for client device				
5725-5	850	≤30dBm in 500 kHz				
Remark:	The maximum power spectral density is measured as a conducted emission b direct connection of a calibrated test instrument to the equipment under test.					

### 7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 52.7 % RH Atmospheric Pressure: 1020 mbar

### 7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A) _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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C) _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/ac 20/40/80, 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/ac 20/40/80, Only the data of worst case is recorded in the report.



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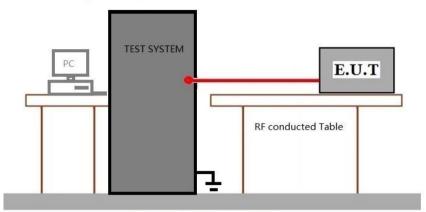
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### 7.10.3 Test Setup Diagram



Ground Reference Plane

#### 7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g) Test Method: ANSI C63.10 (2013) Section 6.8

### 7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 23.7 °C Humidity: 52.7 % RH Atmospheric Pressure: 1020 mbar

### 7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	05	TX mode (U-NII-2A) _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/ac 20/40/80, Only the data of worst case is recorded in the report.
Final test	06	TX mode (U-NII-2C) _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/ac 20/40/80, 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/ac 20/40/80, Only the data of worst case is recorded in the report.



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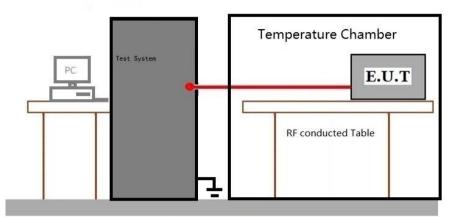
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### 7.11.3 Test Setup Diagram



Ground Reference Plane

#### 7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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#### **Test Setup Photo** 8

Refer to Appendix - Test Setup Photo for GZCR240600076006



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#### **EUT Constructional Details (EUT Photos)** 9

Refer to External and Internal Photos for GZCR2406000760HS



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## 10 Appendix

- 1. Duty Cycle
- 1.1 Test Result

### 1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		5180	2.065	2.294	90.02	0.46	5.21
		5200	2.064	2.294	89.97	0.46	5.21
		5240	2.065	2.295	89.98	0.46	5.25
		5260	2.065	2.286	90.33	0.44	4.87
		5300	2.065	2.295	89.98	0.46	5.63
802.11a	SISO	5320	2.066	2.278	90.69	0.42	4.51
002.11a	3130	5500	2.065	2.295	89.98	0.46	5.64
		5580	2.065	2.294	90.02	0.46	5.64
		5700	2.065	2.295	89.98	0.46	4.83
		5745	2.065	2.295	89.98	0.46	5.25
		5785	2.064	2.295	89.93	0.46	5.67
		5825	2.065	2.276	90.73	0.42	4.48
	SISO	5180	1.921	2.151	89.31	0.49	5.15
		5200	1.921	2.141	89.72	0.47	4.76
		5240	1.922	2.152	89.31	0.49	5.98
		5260	1.922	2.151	89.35	0.49	5.98
		5300	1.920	2.142	89.64	0.48	5.61
802.11n (HT20)		5320	1.920	2.141	89.68	0.47	5.62
		5500	1.921	2.151	89.31	0.49	5.57
		5580	1.921	2.151	89.31	0.49	5.98
		5700	1.921	2.123	90.49	0.43	4.43
		5745	1.921	2.142	89.68	0.47	5.58
		5785	1.921	2.097	91.61	0.38	3.25
		5825	1.921	2.133	90.06	0.45	5.21



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				A	nt1		
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
		5190	0.944	1.174	80.41	0.95	8.92
		5230	0.945	1.166	81.05	0.91	8.30
		5270	0.944	1.175	80.34	0.95	3.22
		5310	0.945	1.157	81.68	0.88	9.16
802.11n (HT40)	SISO	5510	0.944	1.175	80.34	0.95	10.47
(11140)		5550	0.946	1.175	80.51	0.94	6.66
		5670	0.946	1.175	80.51	0.94	8.93
		5755	0.945	1.157	81.68	0.88	8.43
		5795	0.945	1.175	80.43	0.95	8.90
		5180	1.933	2.187	88.39	0.54	5.82
		5200	1.933	2.178	88.75	0.52	5.46
		5240	1.933	2.178	88.75	0.52	3.84
		5260	1.933	2.188	88.35	0.54	5.84
		5300	1.933	2.169	89.12	0.50	5.07
802.11ac	CICO	5320	1.933	2.178	88.75	0.52	4.23
(VHT20)	SISO	5500	1.932	2.159	89.49	0.48	4.27
		5580	1.933	2.187	88.39	0.54	5.41
		5700	1.933	2.178	88.75	0.52	5.42
		5745	1.933	2.170	89.08	0.50	3.87
		5785	1.933	2.187	88.39	0.54	5.82
		5825	1.933	2.178	88.75	0.52	4.62
	SISO	5190	0.953	1.198	79.55	0.99	7.19
		5230	0.953	1.207	78.96	1.03	9.21
		5270	0.961	1.180	81.44	0.89	7.44
000 44		5310	0.953	1.198	79.55	0.99	8.64
802.11ac (VHT40)		5510	0.953	1.207	78.96	1.03	7.76
(11140)		5550	0.954	1.198	79.63	0.99	9.34
		5670	0.953	1.207	78.96	1.03	9.94
		5755	0.954	1.207	79.04	1.02	9.19
		5795	0.953	1.198	79.55	0.99	8.63
	SISO	5210	0.462	0.706	65.44	1.84	14.21
000 44		5290	0.462	0.715	64.62	1.90	13.82
802.11ac (VHT80)		5530	0.461	0.715	64.48	1.91	13.82
(111100)		5610	0.462	0.688	67.15	1.73	8.96
		5775	0.462	0.697	66.28	1.79	9.83



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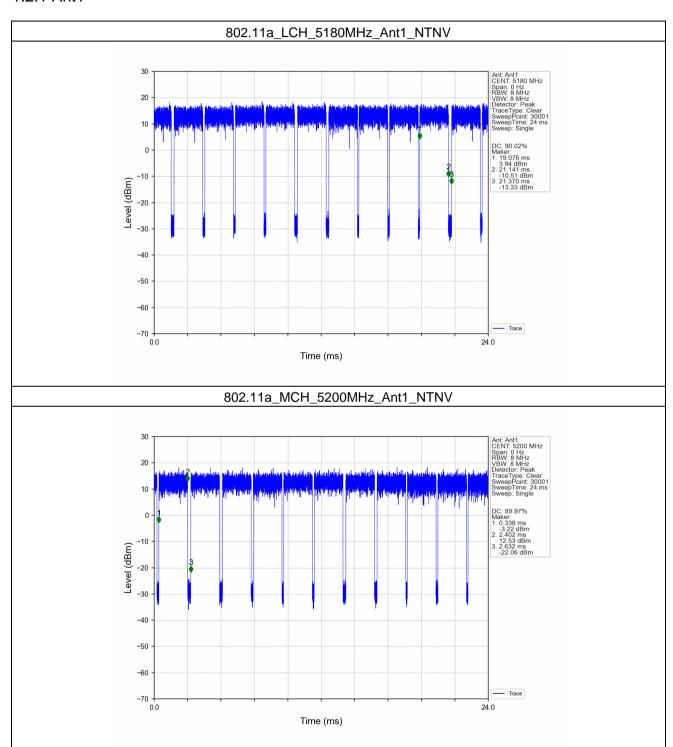


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### 1.2 Test Graph

### 1.2.1 Ant1





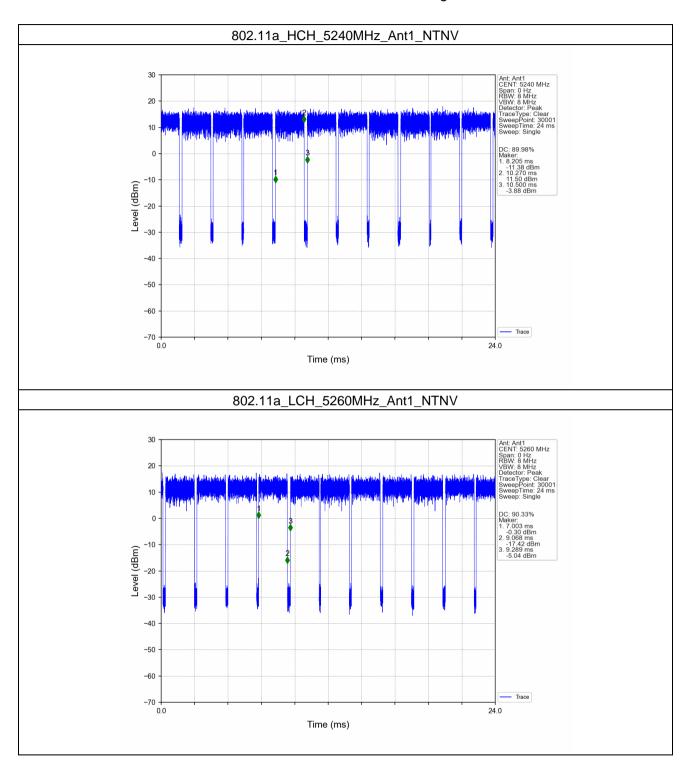
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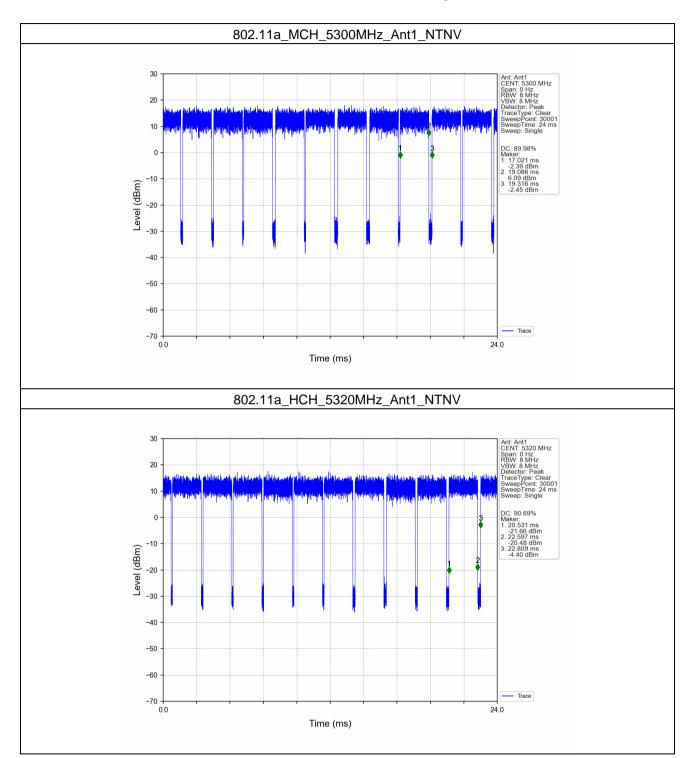
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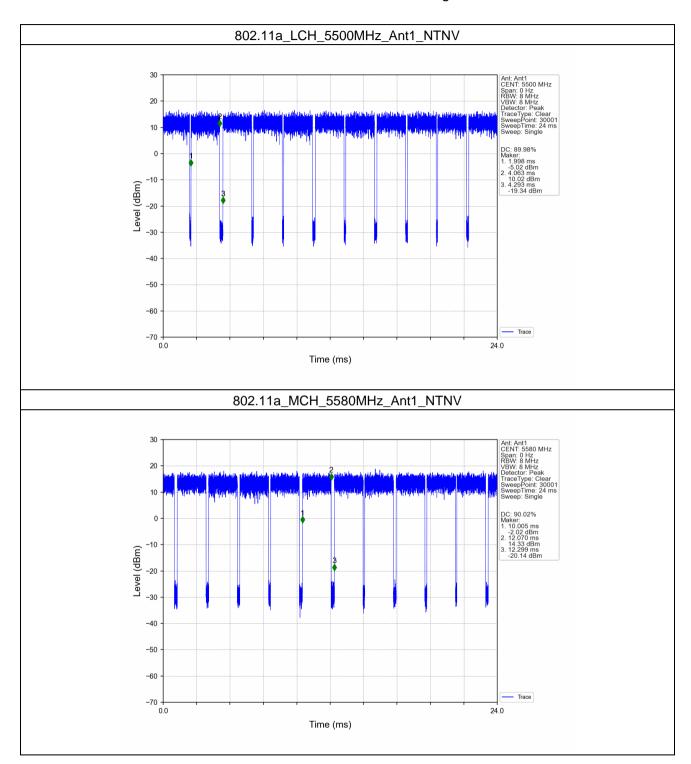
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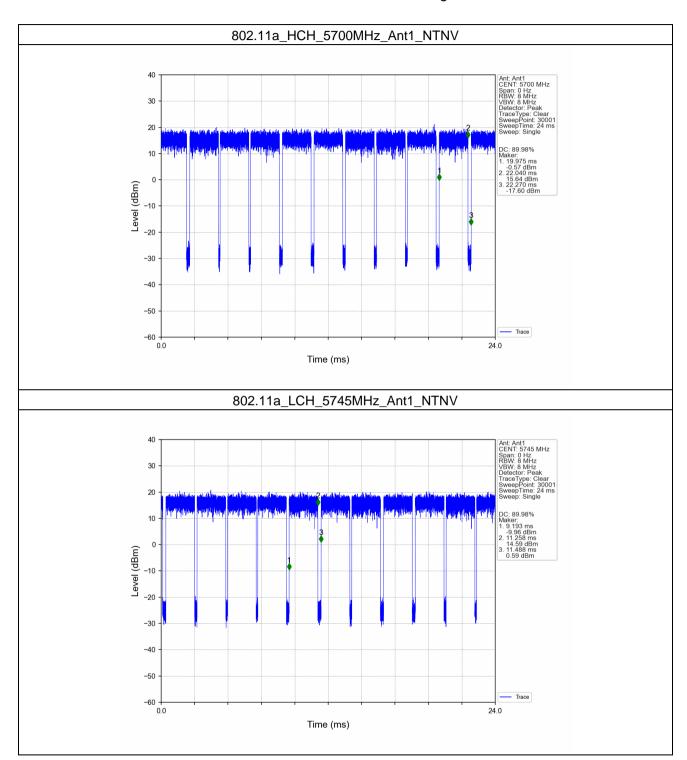
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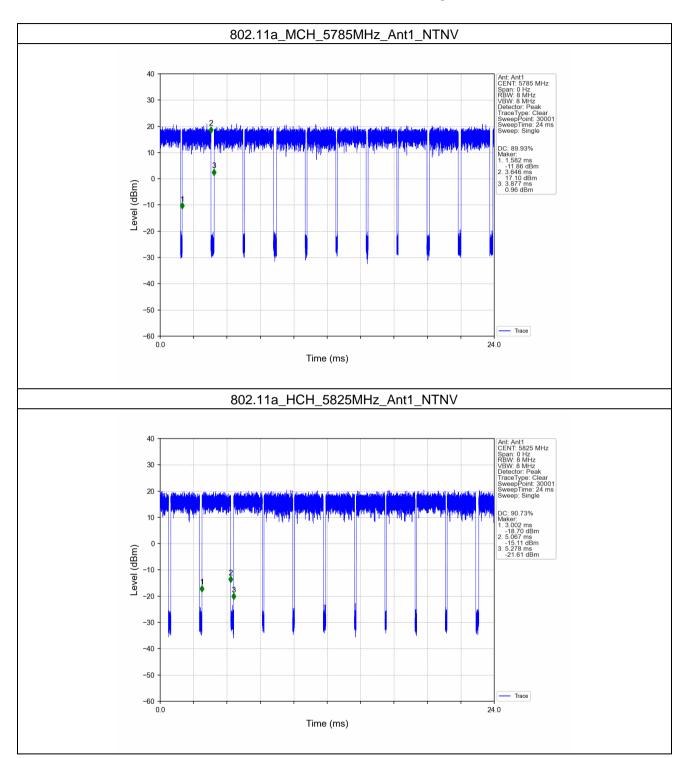
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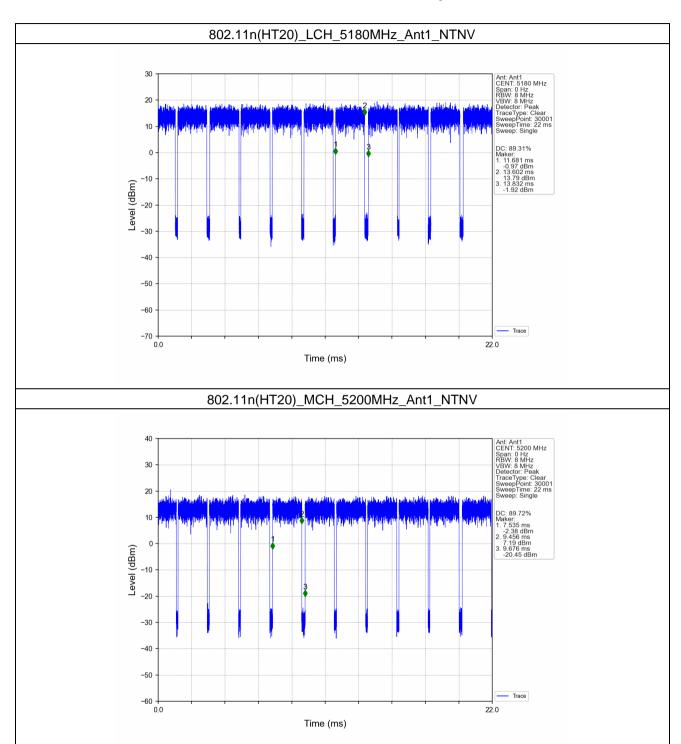
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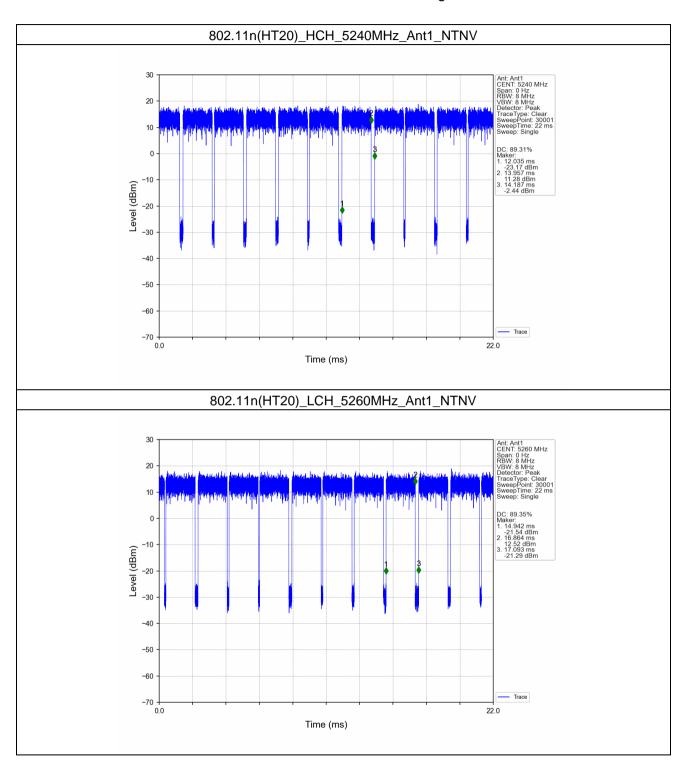
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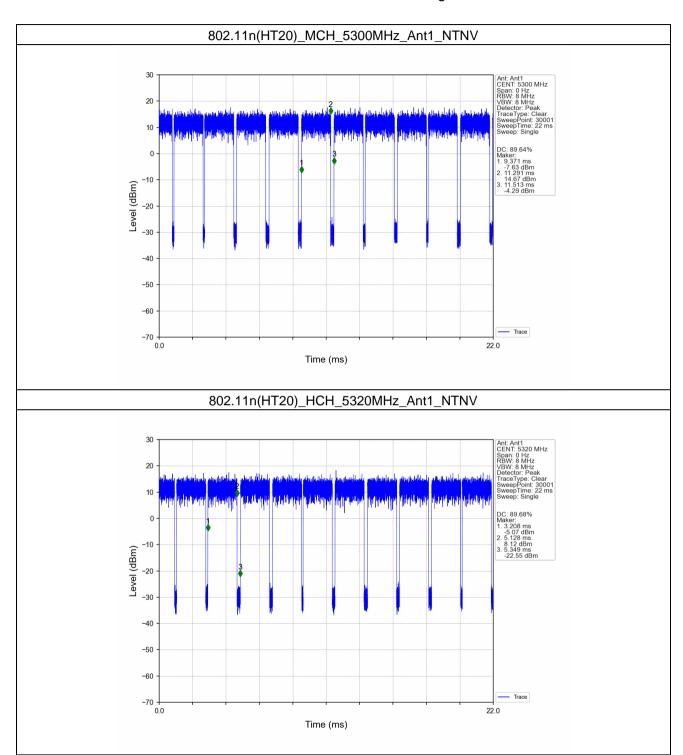
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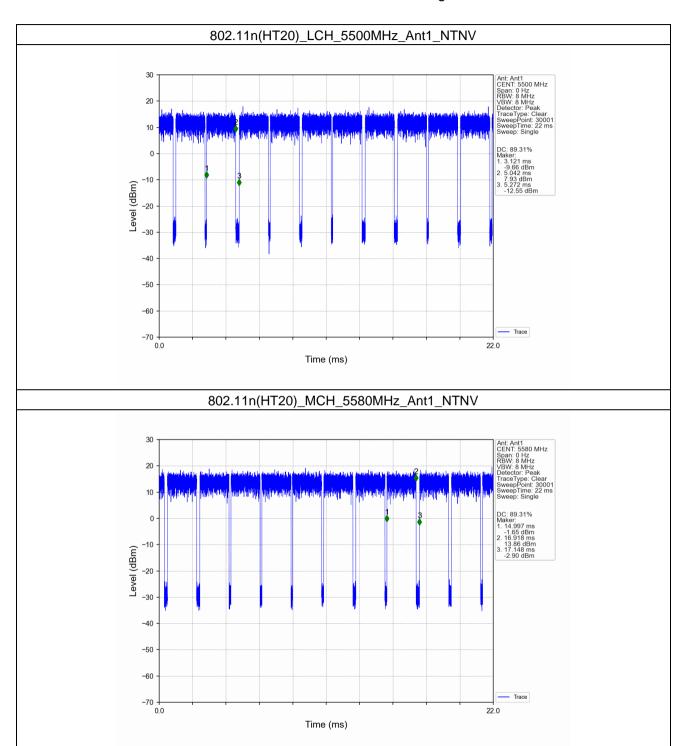
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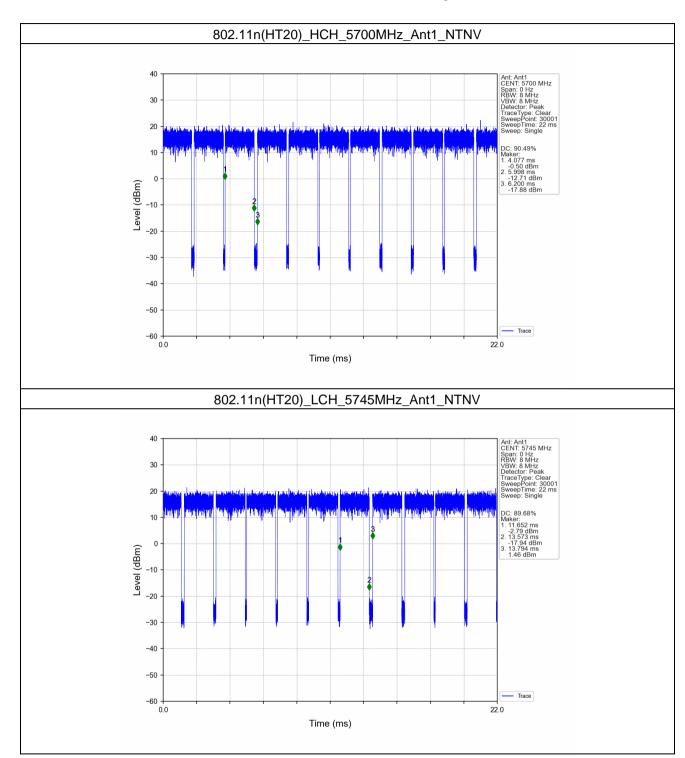
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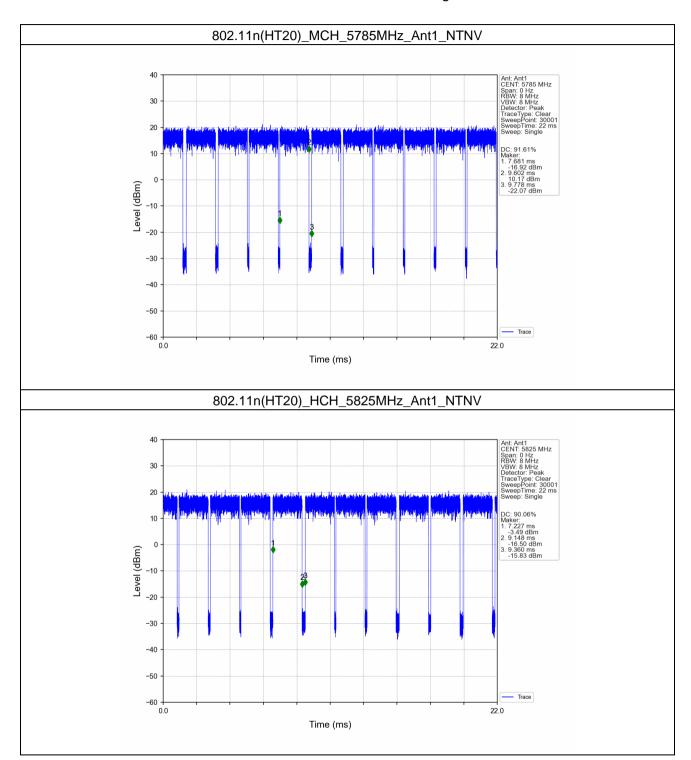
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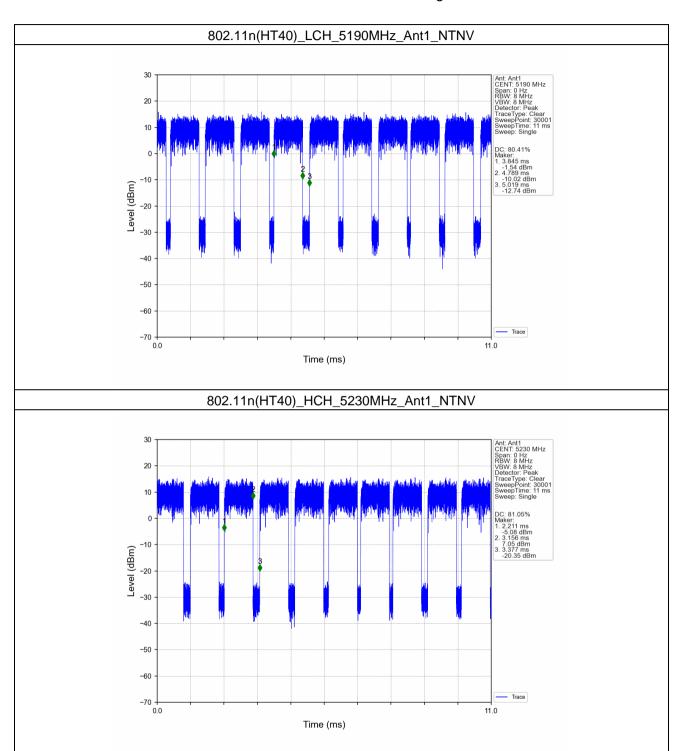
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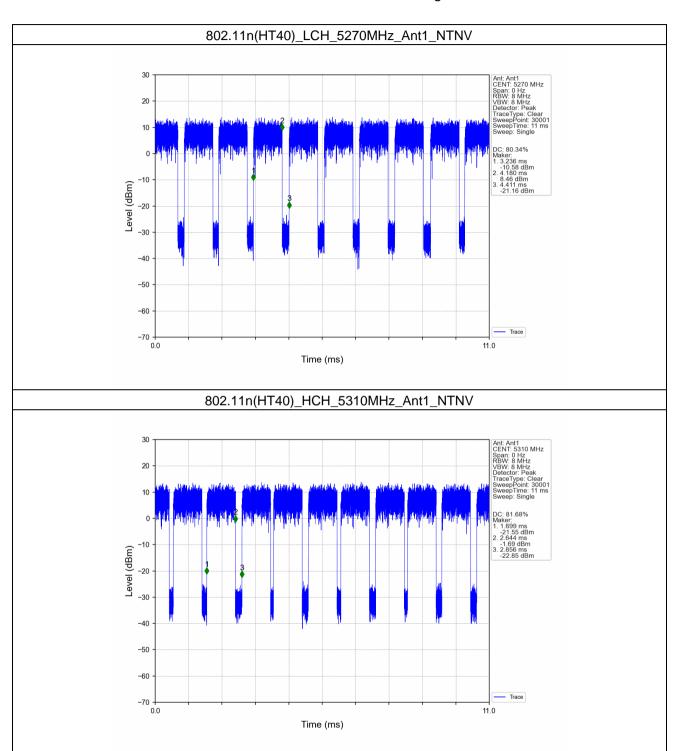
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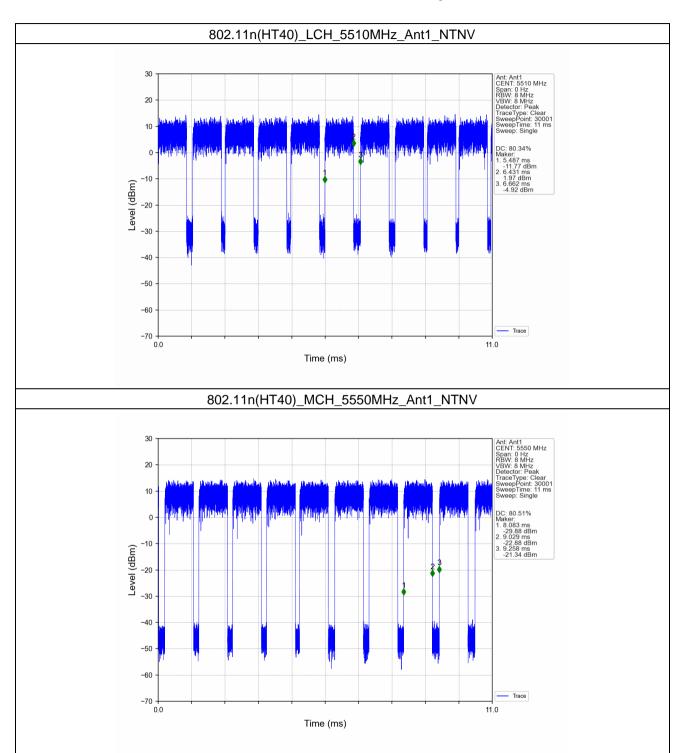
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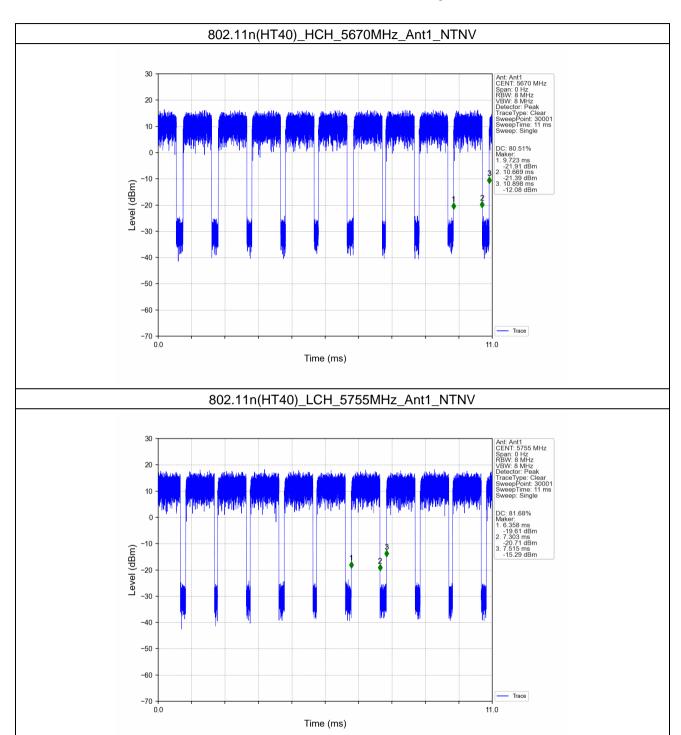
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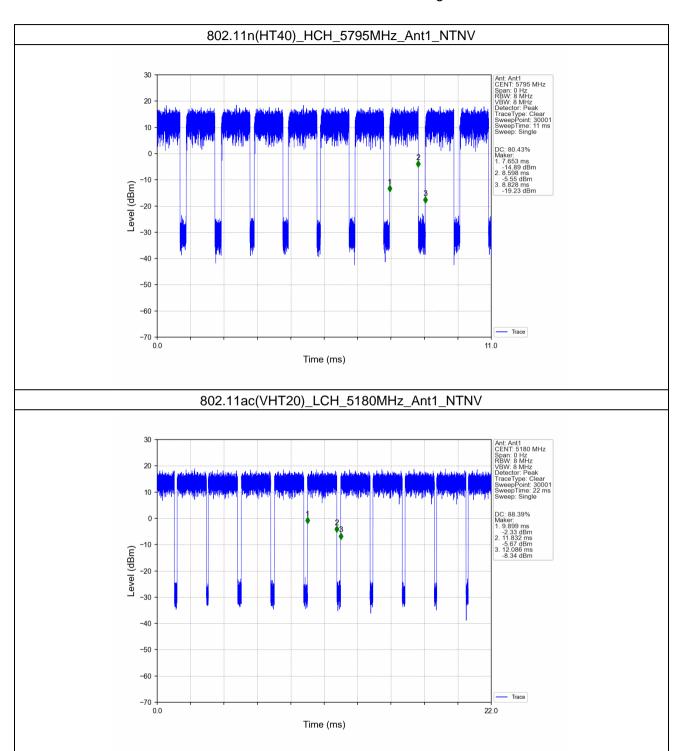
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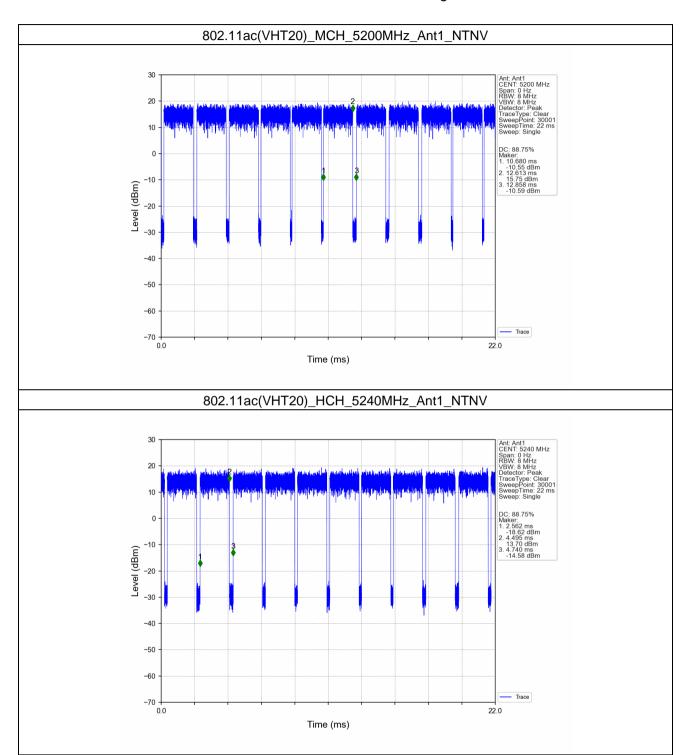
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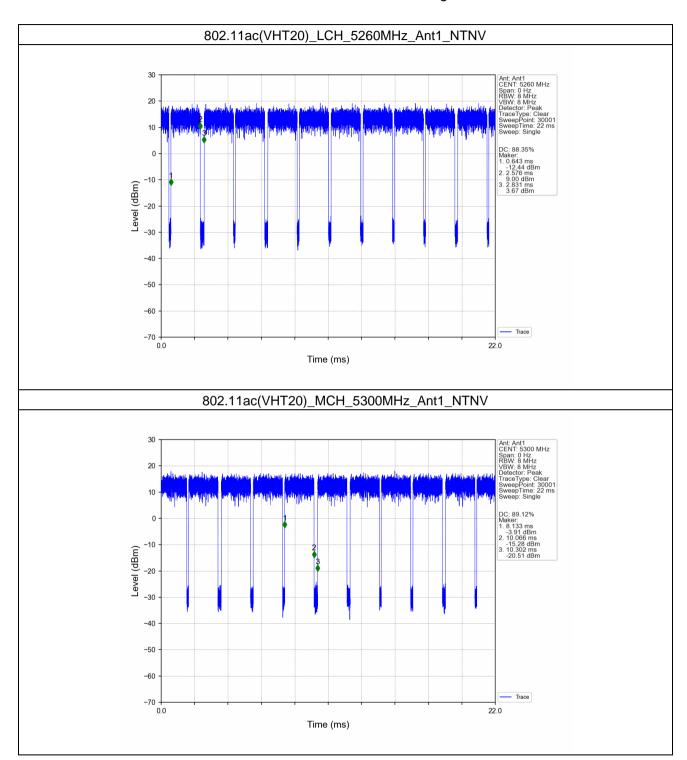
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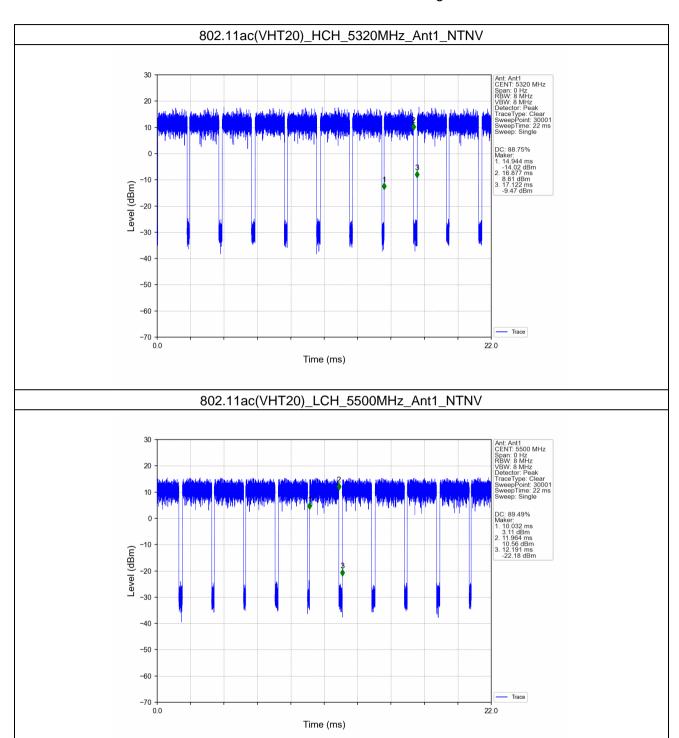
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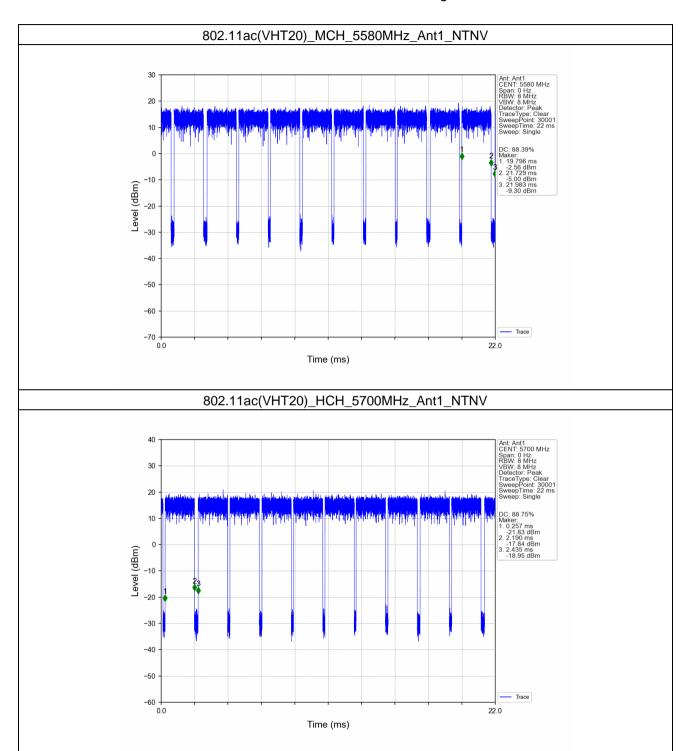
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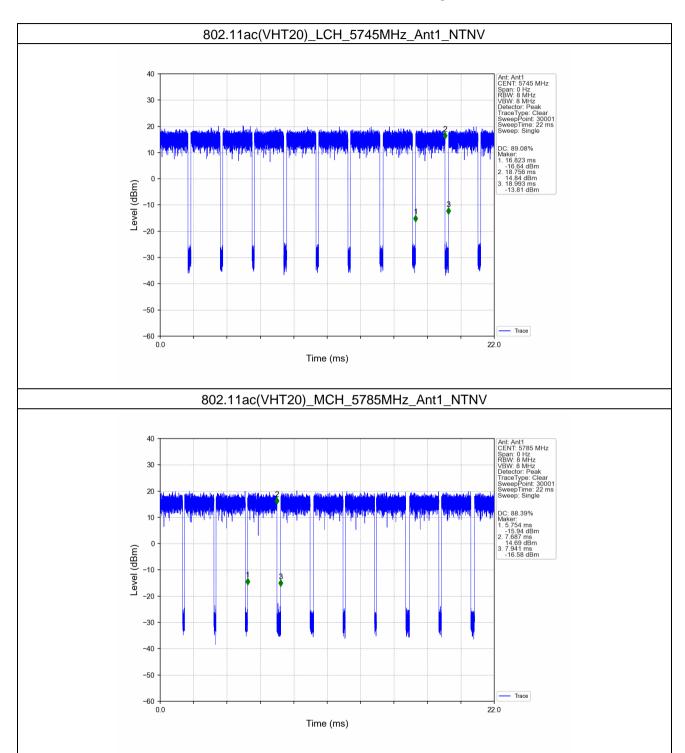
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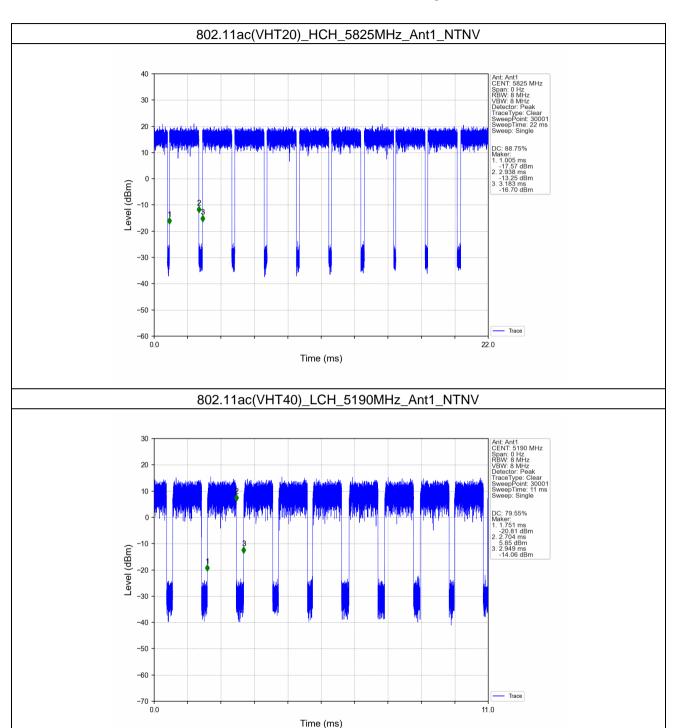
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