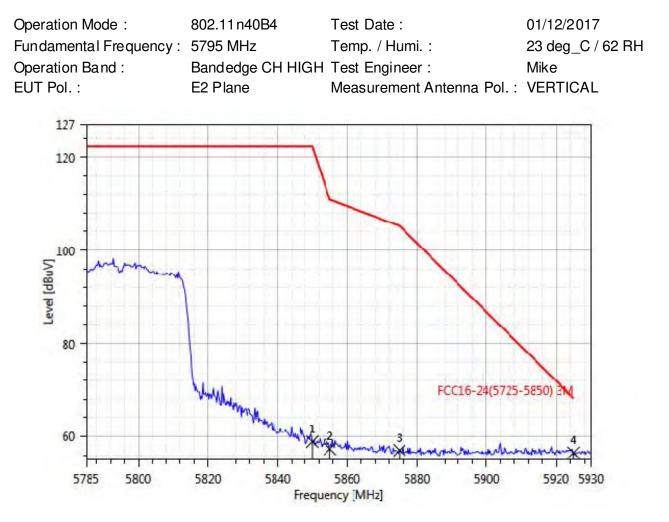


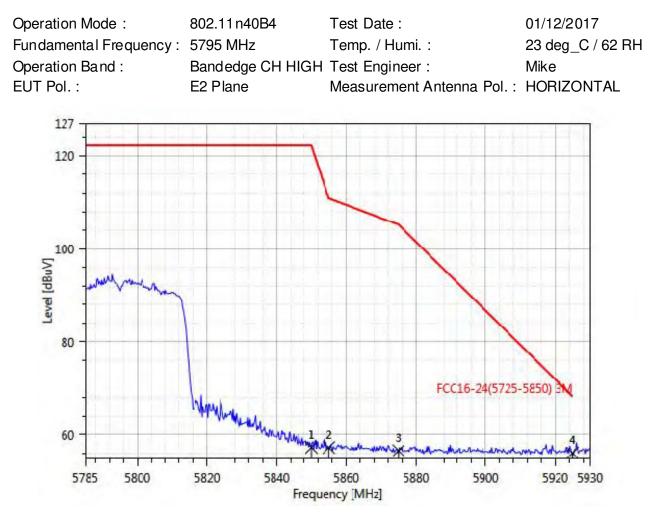
Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
5650.00	Е	Peak	55.10	48.62	6.48	68.23	-13.13
5700.00	E	Peak	61.29	54.62	6.68	105.23	-43.94
5720.00	Е	Peak	66.95	60.35	6.60	110.83	-43.88
5725.00	Е	Peak	68.50	61.91	6.59	122.23	-53.73





Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
5850.00	Е	Peak	58.89	51.61	7.28	122.23	-63.34
5855.00	Е	Peak	57.35	50.03	7.32	110.83	-53.48
5875.00	Е	Peak	57.05	49.68	7.37	105.23	-48.18
5925.00	Е	Peak	56.53	49.14	7.39	68.23	-11.70

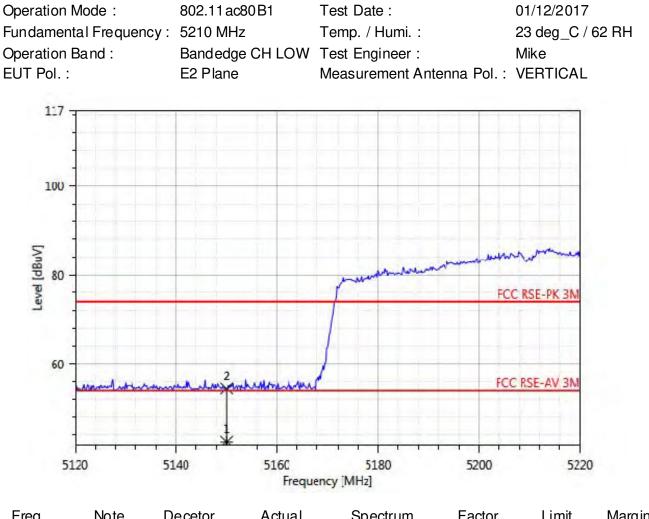




Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
5850.00	Е	Peak	57.22	49.94	7.28	122.23	-65.01
5855.00	Е	Peak	57.21	49.89	7.32	110.83	-53.62
5875.00	Е	Peak	56.56	49.19	7.37	105.23	-48.67
5925.00	Е	Peak	56.04	48.65	7.39	68.23	-12.19

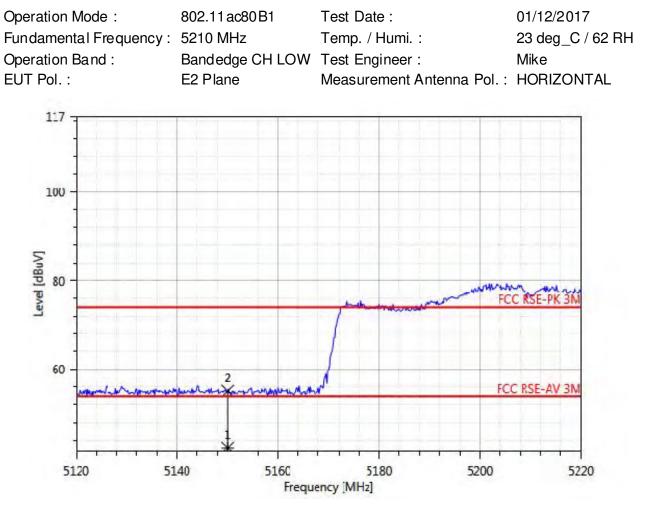


### 802.11ac80 VHT mode



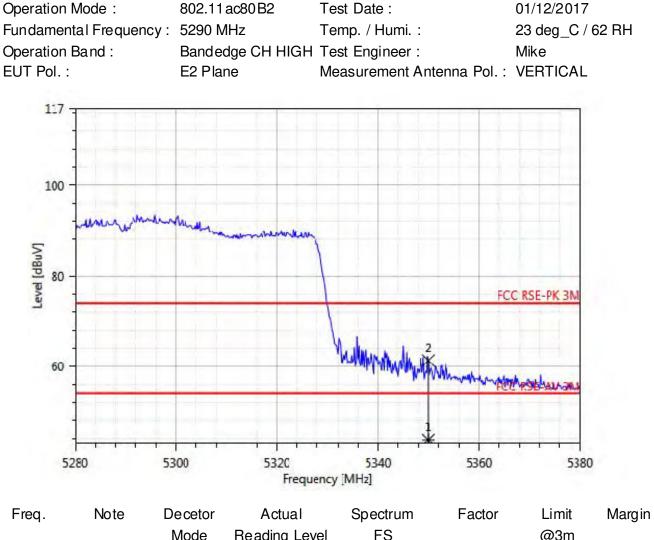
Fieq.	note	Decetor	Actual	Spectrum	Factor		wargin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
5150.00	E	Average	42.42	36.54	5.88	54.00	-11.58
5150.00	Е	Peak	54.39	48.51	5.88	74.00	-19.61





Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
5150.00	Е	Average	42.28	36.40	5.88	54.00	-11.72
5150.00	Е	Peak	55.14	49.26	5.88	74.00	-18.86

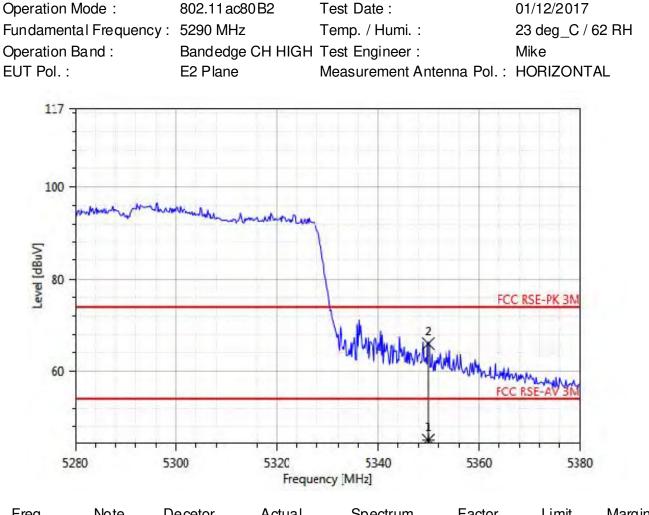




1109.		Beceter	//0/04	opooliani	1 40101		margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB	_
5350.00	Е	Average	43.79	37.64	6.15	54.00	-10.21	-
5350.00	Е	Peak	61.33	55.18	6.15	74.00	-12.67	

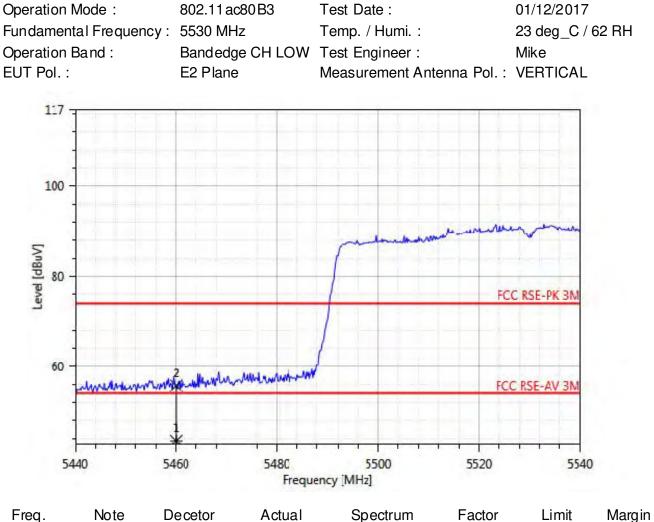
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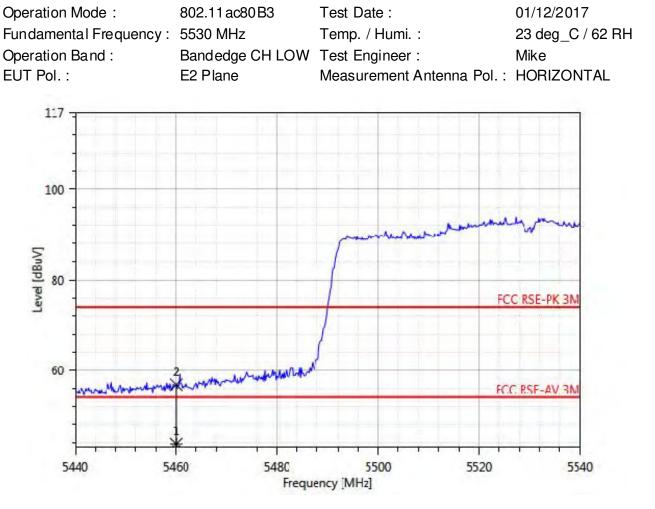
⊢req.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin	
		Mode	Reading Level	FS		@3m		
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB	
5350.00	Е	Average	45.12	38.97	6.15	54.00	-8.88	_
5350.00	Е	Peak	65.92	59.77	6.15	74.00	-8.08	





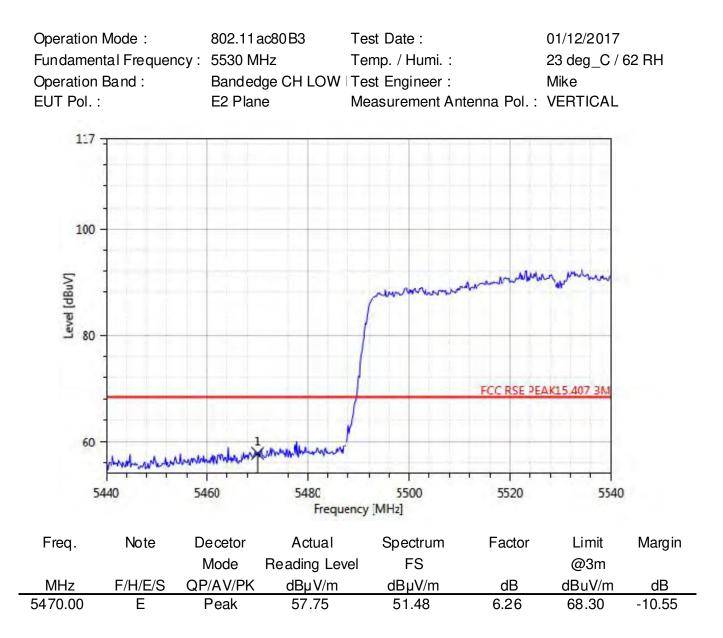
Note	Decetor	Actual	Spectrum	Factor	Limit	iviarg in	
	Mode	Reading Level	FS		@3m		
F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB	
E	Average	43.50	37.27	6.23	54.00	-10.50	
E	Peak	55.76	49.53	6.23	74.00	-18.24	
	F/H/E/S	Mode F/H/E/S QP/AV/PK E Average	ModeReading LevelF/H/E/SQP/AV/PKdBµV/mEAverage43.50	ModeReading LevelFSF/H/E/SQP/AV/PKdBµV/mdBµV/mEAverage43.5037.27	ModeReading LevelFSF/H/E/SQP/AV/PKdBµV/mdBµV/mEAverage43.5037.27	ModeReading LevelFS@3mF/H/E/SQP/AV/PKdBµV/mdBµV/mdBdBuV/mEAverage43.5037.276.2354.00	Mode Reading Level FS @3m   F/H/E/S QP/AV/PK dBμV/m dBμV/m dB dBuV/m dB   E Average 43.50 37.27 6.23 54.00 -10.50



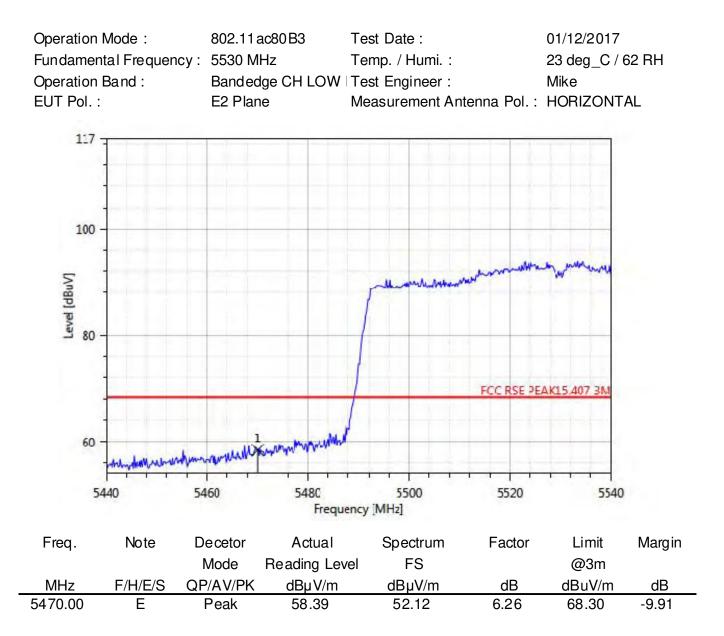


Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
5460.00	Е	Average	43.73	37.50	6.23	54.00	-10.27
5460.00	Е	Peak	56.82	50.59	6.23	74.00	-17.18

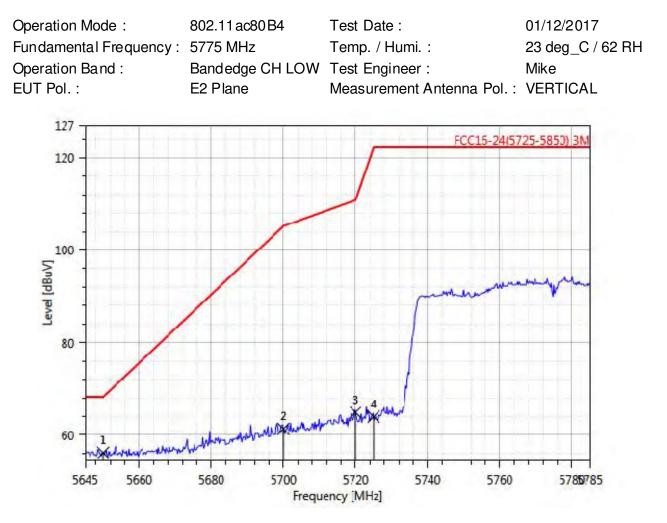






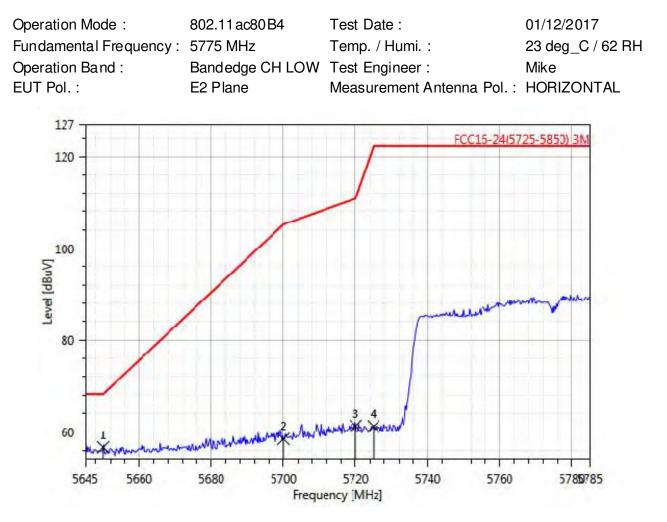






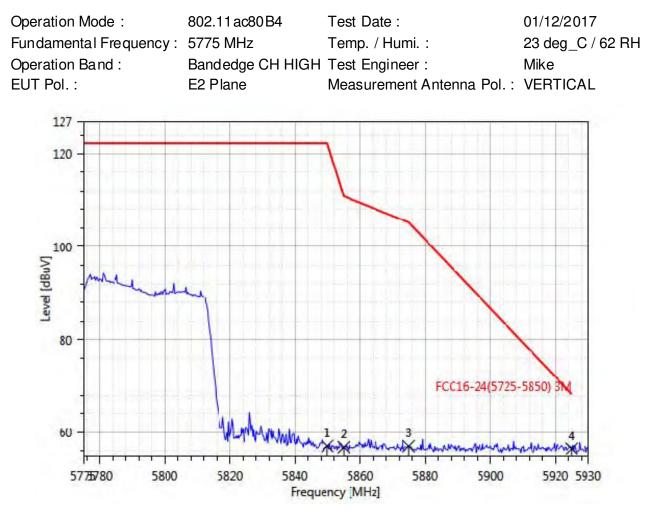
Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
5650.00	Е	Peak	56.15	49.67	6.48	68.23	-12.08
5700.00	Е	Peak	61.32	54.65	6.68	105.23	-43.91
5720.00	Е	Peak	64.90	58.30	6.60	110.83	-45.93
5725.00	Е	Peak	63.95	57.36	6.59	122.23	-58.28





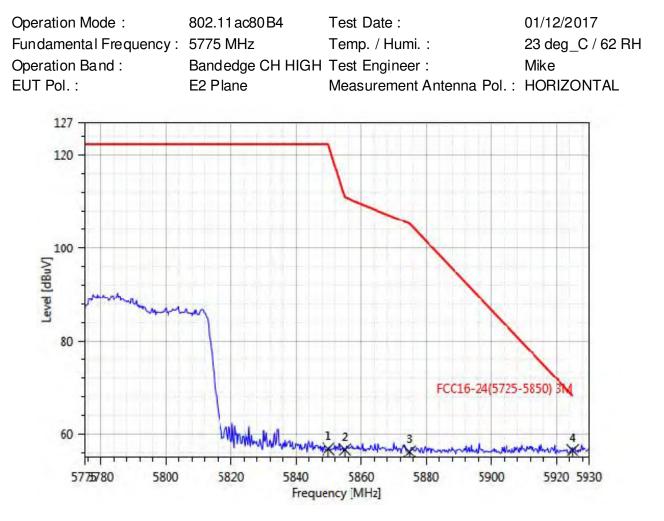
Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
5650.00	E	Peak	56.64	50.16	6.48	68.23	-11.59
5700.00	Е	Peak	58.45	51.78	6.68	105.23	-46.78
5720.00	Е	Peak	61.25	54.65	6.60	110.83	-49.58
5725.00	Е	Peak	61.17	54.58	6.59	122.23	-61.06





Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
5850.00	E	Peak	57.06	49.78	7.28	122.23	-65.17
5855.00	Е	Peak	56.79	49.47	7.32	110.83	-54.04
5875.00	Е	Peak	57.01	49.64	7.37	105.23	-48.22
5925.00	Е	Peak	56.46	49.07	7.39	68.23	-11.77





Freq.	Note	Decetor	Actual	Spectrum	Factor	Limit	Margin
		Mode	Reading Level	FS		@3m	
MHz	F/H/E/S	QP/AV/PK	dBµV/m	dBµV/m	dB	dBuV/m	dB
5850.00	E	Peak	56.85	49.57	7.28	122.23	-65.38
5855.00	Е	Peak	56.69	49.37	7.32	110.83	-54.14
5875.00	Е	Peak	56.23	48.86	7.37	105.23	-49.00
5925.00	Е	Peak	56.54	49.15	7.39	68.23	-11.69



# 12. TRANSMISSION IN THE ABSENCE OF DATA

## 12.1 Standard Applicable

## According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

## 12.2 Result

No non-compliance noted:

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部份複製。

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# **13. FREQUENCY STABILITY**

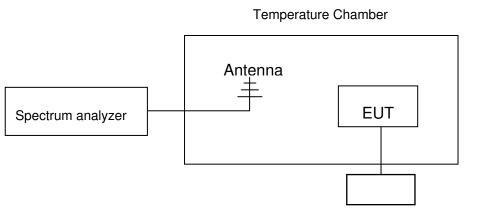
# 13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

## **13.2 Measurement Procedure**

- 1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
- 2. Set EUT as normal operation.
- 3. Turn the EUT on and couple its output to spectrum.
- 4. Turn the EUT off and set the chamber to the highest temperature specified.
- 5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
- 6. Repeat step with the temperature chamber set to the lowest temperature.

# 13.3 Test SET-UP



13.4 Measurement Equipment Used:

Variable AC Power Supply

	SGS Conducted Room						
EQUIPMENT	MFR	MODEL	SERIAL	LAST	CAL DUE.		
ТҮРЕ		NUMBER	NUMBER	CAL.			
EXA Spectrum	Agilent	N9030A	MY53120760	02/26/2016	02/25/2017		
Analyzer	5						
DC Power Supply	Agilent	E3640A	MY52410006	11/21/2016	11/20/2017		
Temperature Chamber	TERCHY	MHG-120LF	911009	05/17/2016	05/16/2017		

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only

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#### 13.5 **Measurement Result**

Operation Mode	802.11 a	Test Date	2016.12.23
Temperature	:25 ℃	Test By	Pony
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		36	5180	5,179.98486	0.00000292
		44	5220	5,219.95483	0.00000865
		48	5240	5,239.93994	0.00001146
		52	5260	5,259.95483	0.00000859
		60	5300	5,299.96997	0.00000567
	12.2V	64	5320	5,319.96997	0.00000564
		100	5500	5,499.95483	0.00000821
<b>5</b> ℃		116	5580	5,579.95483	0.00000809
	10V	140	5700	5,699.98486	0.00000266
		149	5745	5,744.95483	0.00000786
		157	5785	5,784.92505	0.00001296
		165	5825	5,824.96997	0.00000516
		36	5180	5,179.98486	0.00000292
		44	5220	5,219.96997	0.00000575
		48	5240	5,239.98486	0.0000289
		52	5260	5,259.98486	0.00000288
		60	5300	5,299.98486	0.00000286
		64	5320	5,319.98486	0.00000285
		100	5500	5,499.95483	0.00000821
		116	5580	5,579.96997	0.00000538
		140	5700	5,699.98486	0.00000266
		149	5745	5,744.96997	0.00000523
		157	5785	5,784.98486	0.00000262
		165	5825	5,824.98486	0.00000260



25 ℃ 11.1V 36 5180 5,179.98486 0.000029   44 5220 5,219.98486 0.0000029   48 5240 5,239.96997 0.0000052   52 5260 5,29.95483 0.0000028   60 5300 5,29.98486 0.0000028   100 5500 5,499.95483 0.0000028   116 5580 5,579.93994 0.0000077   140 5700 5,699.96997 0.0000028   157 5785 5,784.98511 0.0000028   157 5785 5,784.98511 0.0000028   44 5220 5,219.95483 0.0000028   44 5220 5,219.95483 0.0000028   165 5825 5,824.95508 0.0000028   444 5220 5,219.95483 0.0000028   52 5260 5,259.96997 0.0000028   64 5320 5,119.98486 0.0000027   116 5580 5,579.98486 0.0000027
25 °C 11.1V 64 5239.96997 0.0000057   52 5260 5,259.95483 0.0000028   60 5300 5,299.98486 0.0000028   100 5500 5,499.95483 0.0000028   116 5580 5,579.93994 0.0000028   149 5745 5,744.95483 0.0000028   149 5745 5,784.98511 0.0000029   149 5745 5,784.98511 0.0000029   148 5240 5,239.98486 0.0000029   44 5220 5,219.95483 0.0000029   44 5220 5,219.95483 0.0000029   44 5220 5,219.95483 0.0000029   44 5220 5,219.9697 0.0000027   100 5500 5,319.98486 0.0000027   116 5580 5,579.98486 0.0000027   116 5580 5,579.98486 0.0000027   140 5700 5,699.93944 0.0000027   14
25 °C 11.1V 52 5260 5,259.95483 0.000085   60 5300 5,299.98486 0.000028   100 5500 5,499.95483 0.000082   116 5580 5,579.93994 0.0000107   140 5700 5,699.96997 0.0000025   149 5745 5,744.95483 0.000007   140 5700 5,699.96997 0.0000025   165 5825 5,784.98511 0.000007   165 5825 5,229.98486 0.0000028   44 5220 5,219.95483 0.0000028   52 5260 5,259.96997 0.0000028   52 5260 5,239.98486 0.000028   64 5320 5,319.98486 0.000027   116 5580 5,579.98486 0.000027   116 5580 5,579.98486 0.000027   12.2V 100 5500 5,499.98486 0.000027   140 5700 5,699.93944 0.0000027<
25 °C 11.1V 60 5300 5,299.98486 0.0000028   100 5500 5,319.98486 0.0000028   116 5580 5,579.93994 0.0000107   140 5700 5,699.96997 0.0000025   149 5745 5,744.95483 0.0000025   157 5785 5,784.98511 0.0000025   165 5825 5,824.95508 0.0000077   44 5220 5,219.95483 0.0000028   52 5260 5,239.98486 0.0000028   52 5260 5,259.96997 0.0000028   60 5300 5,299.98511 0.0000028   64 5320 5,319.98486 0.0000027   116 5580 5,579.98486 0.0000027   116 5580 5,579.98486 0.0000027   116 5580 5,579.98486 0.0000027   140 5700 5,699.9394 0.0000027   149 5745 5,744.9697 0.0000026
25 °C 11.1V 64 5320 5,319.98486 0.0000028 100 5500 5,499.95483 0.000082 116 5580 5,579.93994 0.000107 140 5700 5,699.96997 0.000052 149 5745 5,744.95483 0.000078 157 5785 5,784.98511 0.0000025 165 5825 5,824.95508 0.0000077 444 5220 5,219.95483 0.000008 488 5240 5,239.98486 0.0000028 52 5260 5,259.96997 0.0000057 60 5300 5,299.98511 0.0000028 644 5320 5,319.98486 0.0000028 12.2V 100 5500 5,499.98486 0.0000028 140 5700 5,699.93994 0.000105 149 5745 5,744.96997 0.000052 157 5785 5,784.98486 0.0000028 149 5745 5,744.96997 0.000052 157 5785 5,784.98486 0.0000028 35 °C 36 5180 5,179.96997 0.000057 48 5240 5,239.98486 0.0000028 44 5220 5,219.96997 0.000057 48 5240 5,239.98486 0.0000028 52 5260 5,259.98511 0.0000028
100 5500 5,499.95483 0.000082   116 5580 5,579.93994 0.000107   140 5700 5,699.96997 0.000052   149 5745 5,744.95483 0.0000078   157 5785 5,784.98511 0.0000029   165 5825 5,824.95508 0.0000077   44 5220 5,219.95483 0.0000086   48 5240 5,239.98486 0.000028   52 5260 5,259.96997 0.0000027   60 5300 5,299.98511 0.000028   64 5320 5,319.98486 0.000028   64 5320 5,79.98486 0.000027   116 5580 5,579.98486 0.000027   140 5700 5,699.9394 0.000027   140 5700 5,699.9394 0.000027   140 5745 5,744.9697 0.000026   165 5825 5,825.00000 0.0000026   149 5745
116 5580 5,579.93994 0.0000107   140 5700 5,699.96997 0.0000052   149 5745 5,744.95483 0.0000078   157 5785 5,784.98511 0.0000025   165 5825 5,824.95508 0.0000077   44 5220 5,219.95483 0.0000028   44 5220 5,239.98486 0.0000028   52 5260 5,259.96997 0.0000028   60 5300 5,299.98511 0.0000028   64 5320 5,319.98486 0.000027   116 5580 5,579.98486 0.000027   116 5580 5,579.98486 0.000027   140 5700 5,699.93994 0.000105   149 5745 5,744.96997 0.000026   157 5785 5,784.98486 0.000026   149 5745 5,744.96997 0.000026   157 5785 5,784.98486 0.0000026   165 5825
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149 5745 5,744.95483 0.0000078   157 5785 5,784.98511 0.0000025   165 5825 5,824.95508 0.0000077   44 5220 5,219.95483 0.0000028   44 5220 5,219.95483 0.0000028   48 5240 5,239.98486 0.0000028   52 5260 5,259.96997 0.0000028   60 5300 5,299.98511 0.0000028   64 5320 5,319.98486 0.000027   116 5580 5,579.98486 0.000027   116 5580 5,579.98486 0.000027   140 5700 5,699.93994 0.0000105   149 5745 5,744.9697 0.0000028   157 5785 5,784.98486 0.0000028   157 5785 5,784.98486 0.0000028   157 5785 5,784.98486 0.0000028   157 5785 5,825.00000 0.0000000   35 °C 36<
157 5785 5,784.98511 0.000025   165 5825 5,824.95508 0.000077   44 5220 5,219.95483 0.0000029   44 5220 5,239.98486 0.0000028   52 5260 5,259.96997 0.0000028   60 5300 5,299.98511 0.0000028   64 5320 5,319.98486 0.000028   64 5320 5,319.98486 0.000027   116 5580 5,579.98486 0.000027   116 5580 5,579.98486 0.000027   140 5700 5,699.93994 0.0000027   149 5745 5,744.96997 0.0000027   149 5745 5,784.98486 0.0000026   157 5785 5,784.98486 0.0000026   165 5825 5,825.00000 0.0000057   149 5745 5,784.98486 0.0000057   165 5825 5,825.00000 0.0000057   165 5825
165 5825 5,824.95508 0.0000077   36 5180 5,179.98486 0.0000029   44 5220 5,219.95483 0.0000028   48 5240 5,239.98486 0.0000028   52 5260 5,259.96997 0.0000028   60 5300 5,299.98511 0.0000028   64 5320 5,319.98486 0.0000028   64 5320 5,319.98486 0.0000027   116 5580 5,579.98486 0.0000027   140 5700 5,699.93994 0.0000105   149 5745 5,744.96997 0.0000026   157 5785 5,825.00000 0.0000026   155 5825 5,825.00000 0.0000026   165 5825 5,825.00000 0.0000057   36 5180 5,179.96997 0.000057   44 5220 5,219.96997 0.000057   48 5240 5,239.98486 0.0000028   52 5260
36 5180 5,179.98486 0.0000029   44 5220 5,219.95483 0.0000086   48 5240 5,239.98486 0.0000028   52 5260 5,259.96997 0.0000028   60 5300 5,299.98511 0.0000028   64 5320 5,319.98486 0.0000027   100 5500 5,499.98486 0.0000027   116 5580 5,579.98486 0.0000027   140 5700 5,699.93994 0.0000027   149 5745 5,744.96997 0.0000026   157 5785 5,784.98486 0.0000026   165 5825 5,825.00000 0.0000052   36 5180 5,179.96997 0.0000057   44 5220 5,219.96997 0.0000057   48 5240 5,239.98486 0.0000028   52 5260 5,259.98511 0.0000028
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48 5240 5,239.98486 0.0000028   52 5260 5,259.96997 0.0000057   60 5300 5,299.98511 0.0000028   64 5320 5,319.98486 0.0000027   100 5500 5,499.98486 0.0000027   116 5580 5,579.98486 0.0000027   140 5700 5,699.93994 0.0000105   149 5745 5,744.96997 0.0000026   157 5785 5,784.98486 0.0000026   165 5825 5,825.00000 0.0000057   36 5180 5,179.96997 0.0000058   44 5220 5,219.96997 0.0000057   48 5240 5,239.98486 0.0000028   52 5260 5,259.98511 0.0000028
$35 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
60 5300 5,299.98511 0.0000028   64 5320 5,319.98486 0.0000027   110 5500 5,499.98486 0.0000027   116 5580 5,579.98486 0.0000027   140 5700 5,699.93994 0.0000105   149 5745 5,744.96997 0.0000026   157 5785 5,784.98486 0.0000000   35 ℃ 36 5180 5,179.96997 0.0000057   44 5220 5,219.96997 0.0000057   48 5240 5,239.98486 0.0000028   52 5260 5,259.98511 0.0000028
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140 5700 5,699.93994 0.0000105   149 5745 5,744.96997 0.0000052   157 5785 5,784.98486 0.0000000   165 5825 5,825.00000 0.0000000   35 ℃ 36 5180 5,179.96997 0.0000057   44 5220 5,219.96997 0.0000057   48 5240 5,239.98486 0.0000028   52 5260 5,259.98511 0.0000028
149 5745 5,744.96997 0.0000052   157 5785 5,784.98486 0.0000026   165 5825 5,825.00000 0.0000000   35 °C 36 5180 5,179.96997 0.0000057   44 5220 5,219.96997 0.0000057   48 5240 5,239.98486 0.0000028   52 5260 5,259.98511 0.0000028
157 5785 5,784.98486 0.0000026   165 5825 5,825.00000 0.0000000   35 ℃ 36 5180 5,179.96997 0.0000057   44 5220 5,219.96997 0.0000057   48 5240 5,239.98486 0.0000028   52 5260 5,259.98511 0.0000028
165 5825 5,825.00000 0.000000   35 ℃ 36 5180 5,179.96997 0.0000058   44 5220 5,219.96997 0.0000057   48 5240 5,239.98486 0.0000028   52 5260 5,259.98511 0.0000028
35 ℃ 36 5180 5,179.96997 0.0000058 44 5220 5,219.96997 0.0000057 48 5240 5,239.98486 0.0000028 52 5260 5,259.98511 0.0000028
4452205,219.969970.00000574852405,239.984860.00000285252605,259.985110.0000028
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52 5260 5,259.98511 0.0000028
60 5300 5.299.93994 0.0000113
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10V 64 5320 5,319.96997 0.0000056
100 5500 5,499.96997 0.0000054
116 5580 5,579.96997 0.0000053
140 5700 5,699.98486 0.0000026
149 5745 5,744.93994 0.0000104
157 5785 5,784.98486 0.0000026
165 5825 5,824.98511 0.0000025



Operation Mode	802.11 n_HT40	Test Date	2016.12.23
Temperature	:25 ℃	Test By	Pony
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		38	5190	5,189.97510	0.0000480
		46	5230	5,229.89990	0.00001914
		54	5270	5,269.97510	0.00000473
		62	5310	5,309.92505	0.00001412
	12.2V	102	5510	5,509.95020	0.0000904
		110	5550	5,549.97510	0.00000449
		134	5670	5,669.97510	0.00000439
5℃		151	5755	5,754.92505	0.00001302
		159	5795	5,794.87500	0.00002157
		38	5190	5,189.95020	0.0000960
		46	5230	5,229.94995	0.0000957
		54	5270	5,269.94995	0.0000950
		62	5310	5,310.02490	-0.00000469
	10V	102	5510	5,509.97510	0.00000452
		110	5550	5,549.94995	0.0000902
		134	5670	5,669.94995	0.0000883
		151	5755	5,754.97485	0.00000437
		159	5795	5,794.92505	0.00001293



		38	5190	5,189.94995	0.0000964
		46	5230	5,229.94995	0.0000957
		54	5270	5,270.00000	0.0000000
		62	5310	5,309.94995	0.0000943
<b>25</b> °C	11.1V	102	5510	5,509.92505	0.00001360
		110	5550	5,549.97485	0.00000453
		134	5670	5,669.94995	0.0000883
		151	5755	5,754.94995	0.0000870
		159	5795	5,794.94995	0.0000864
		38	5190	5,189.94995	0.0000964
<b>35</b> ℃		46	5230	5,229.97485	0.00000481
	12.2V	54	5270	5,269.97510	0.00000473
		62	5310	5,309.94995	0.0000943
		102	5510	5,509.97510	0.00000452
		1 10	5550	5,550.00000	0.0000000
		134	5670	5,669.97510	0.0000439
		151	5755	5,754.92505	0.00001302
		159	5795	5,794.97510	0.0000430
		38	5190	5,190.00000	0.0000000
		46	5230	5,229.97510	0.00000476
		54	5270	5,269.97510	0.00000473
		62	5310	5,309.94995	0.0000943
	10V	102	5510	5,509.97510	0.00000452
		110	5550	5,549.95020	0.0000897
		134	5670	5,669.92505	0.00001322
		151	5755	5,754.92505	0.00001302
		1 59	5795	5,794.97510	0.0000430

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Operation Mode	802.11 ac_VHT80	Test Date	2016.12.23
Temperature	: <b>25</b> ℃	Test By	Pony
Humidity	:65 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
		42	5210	5,210.00000	0.00000000
		58	5290	5,290.00000	0.00000000
	12.2V	106	5530	5,529.90015	0.00001806
		122	5610	5,610.00000	0.00000000
<b>5</b> °C		155	5775	5,774.95020	0.0000862
		42	5210	5,210.00000	0.00000000
		58	5290	5,289.95020	0.00000941
	10V	106	5530	5,530.00000	0.00000000
		122	5610	5,609.90015	0.00001780
		155	5775	5,774.85010	0.00002596
		42	5210	5,210.00000	0.00000000
		58	5290	5,290.00000	0.00000000
<b>25</b> °C	11.1V	106	5530	5,530.00000	0.00000000
		122	5610	5,610.00000	0.00000000
		155	5775	5,774.90015	0.00001729
		42	5210	5,209.85010	0.00002877
		58	5290	5,289.85010	0.00002834
	12.2V	106	5530	5,529.85010	0.00002711
		122	5610	5,609.85010	0.00002672
<b>35</b> °C		155	5775	5,775.00000	0.00000000
		42	5210	5,210.00000	0.00000000
		58	5290	5,290.00000	0.00000000
	10V	106	5530	5,529.95020	0.0000901
		122	5610	5,609.95020	0.0000888
		155	5775	5,774.80005	0.00003462



# **14. ANTENNA REQUIREMENT**

## 14.1 Standard Applicable

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device. According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

# 14.2 Antenna Connected Construction

PIFA antenna designs are used.

The antenna is designed with permanent attached and no consideration of replacement. Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

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# **APPENDIX I MEASUREMENT PLOT OF RADIATED SPURIOUS EMISSION**

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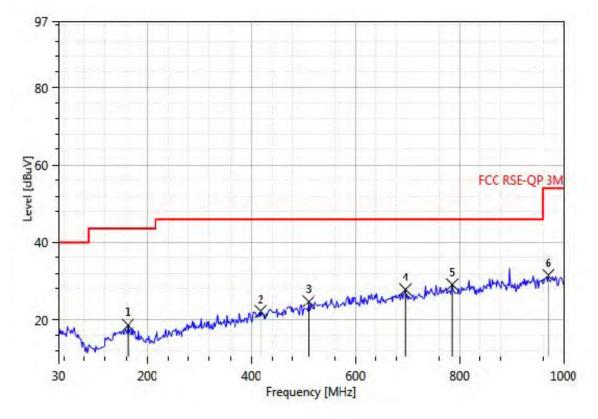


## **Radiated Spurious Emission Measurement photos Result**

# Note: The trace on RE (radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

### **Below 1GHz Data:**

Operation Mode :	802.11 aB1	Test Date :	12/21/2016
Fundamental Frequency :	5220 MHz	Temp. / Humi. :	23 deg_C / 62 RH
Operation Band :	Tx CH MID	Test Engineer :	Mike
EUT Pol. :	E2 Plane	Measurement Antenna Pol. :	VERTICAL



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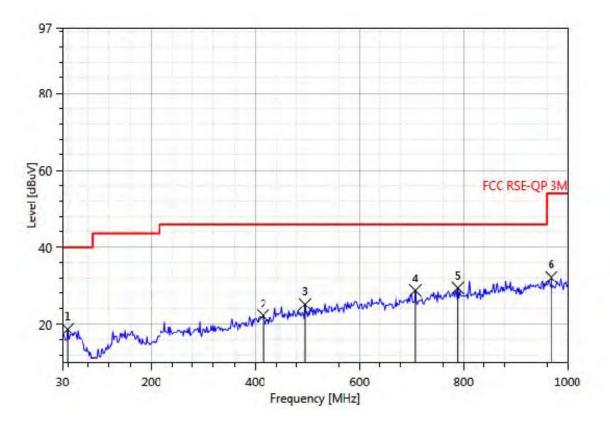
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Operation Mode : 802.11 aB1 Fundamental Frequency: 5220 MHz **Operation Band**: Tx CH MID EUT Pol. : E2 Plane

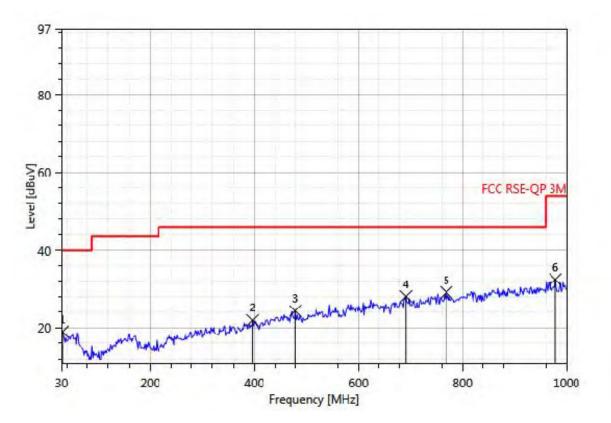
Test Date : 12/21/2016 Temp. / Humi. : 23 deg C / 62 RH Test Engineer : Mike Measurement Antenna Pol.: HORIZONTAL





Operation Mode : 802.11 aB2 Fundamental Frequency: 5300 MHz **Operation Band**: Tx CH MID EUT Pol. : E2 Plane

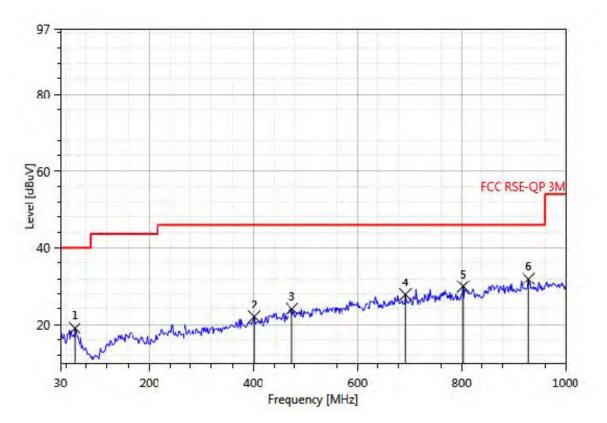
Test Date : 12/21/2016 Temp. / Humi. : 23 deg C / 62 RH Test Engineer : Mike Measurement Antenna Pol.: VERTICAL





Operation Mode : 802.11 aB2 Fundamental Frequency: 5300 MHz **Operation Band**: Tx CH MID EUT Pol. : E2 Plane

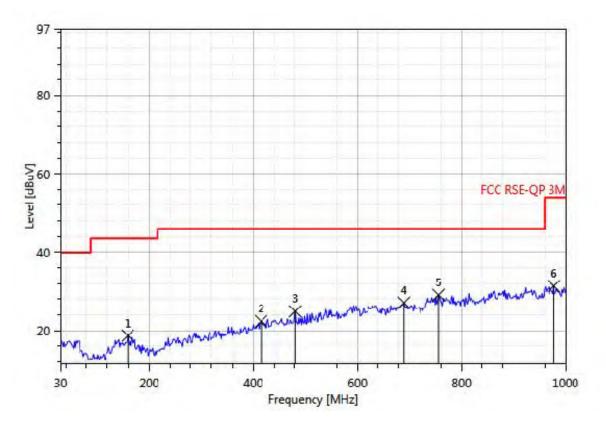
Test Date : 12/21/2016 Temp. / Humi. : 23 deg\_C / 62 RH Test Engineer : Mike Measurement Antenna Pol.: HORIZONTAL





Operation Mode : 802.11aB3 Fundamental Frequency: 5580 MHz **Operation Band**: Tx CH MID EUT Pol. : E2 Plane

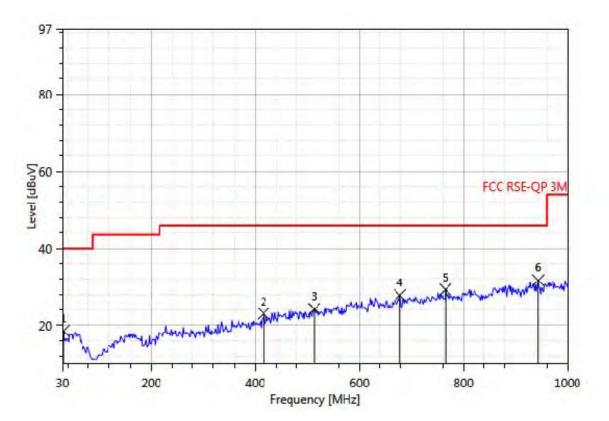
Test Date : 12/21/2016 Temp. / Humi. : 23 deg C / 62 RH Test Engineer : Mike Measurement Antenna Pol.: VERTICAL





Operation Mode : 802.11aB3 Fundamental Frequency: 5580 MHz **Operation Band**: Tx CH MID EUT Pol. : E2 Plane

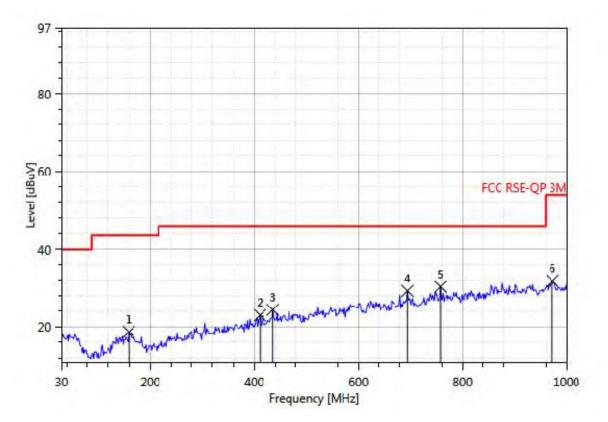
Test Date : 12/21/2016 Temp. / Humi. : 23 deg C / 62 RH Test Engineer : Mike Measurement Antenna Pol.: HORIZONTAL





Operation Mode : 802.11aB4 Fundamental Frequency: 5785 MHz **Operation Band**: Tx CH MID EUT Pol. : E2 Plane

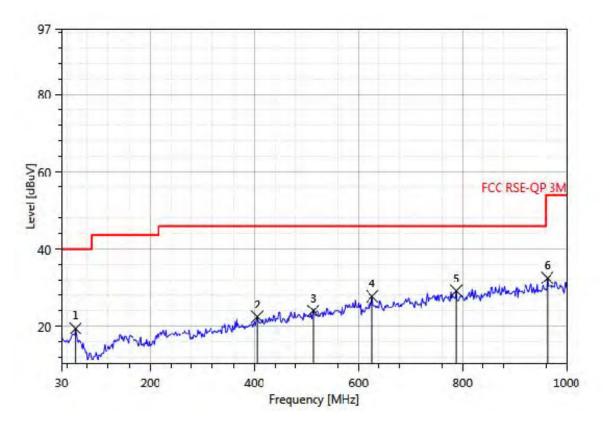
Test Date : 12/21/2016 Temp. / Humi. : 23 deg C / 62 RH Test Engineer : Mike Measurement Antenna Pol.: VERTICAL





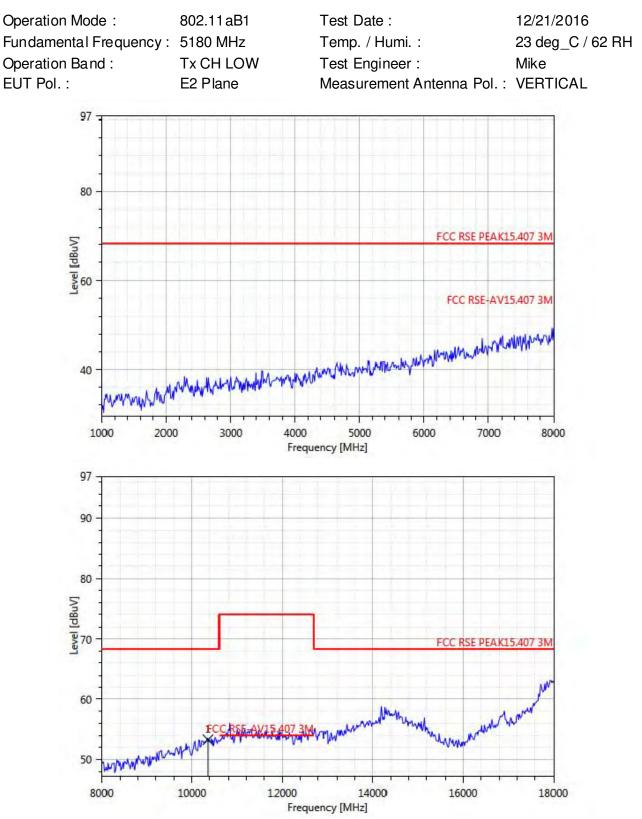
Operation Mode : 802.11aB4 Fundamental Frequency: 5785 MHz **Operation Band**: Tx CH MID EUT Pol. : E2 Plane

Test Date : 12/21/2016 Temp. / Humi. : 23 deg\_C / 62 RH Test Engineer : Mike Measurement Antenna Pol.: HORIZONTAL





## Above 1GHz Data:

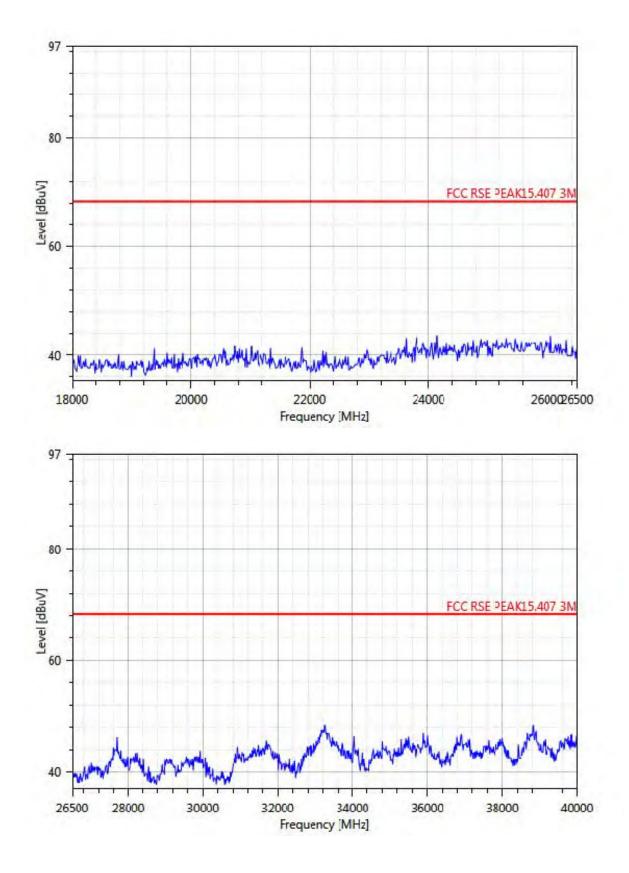


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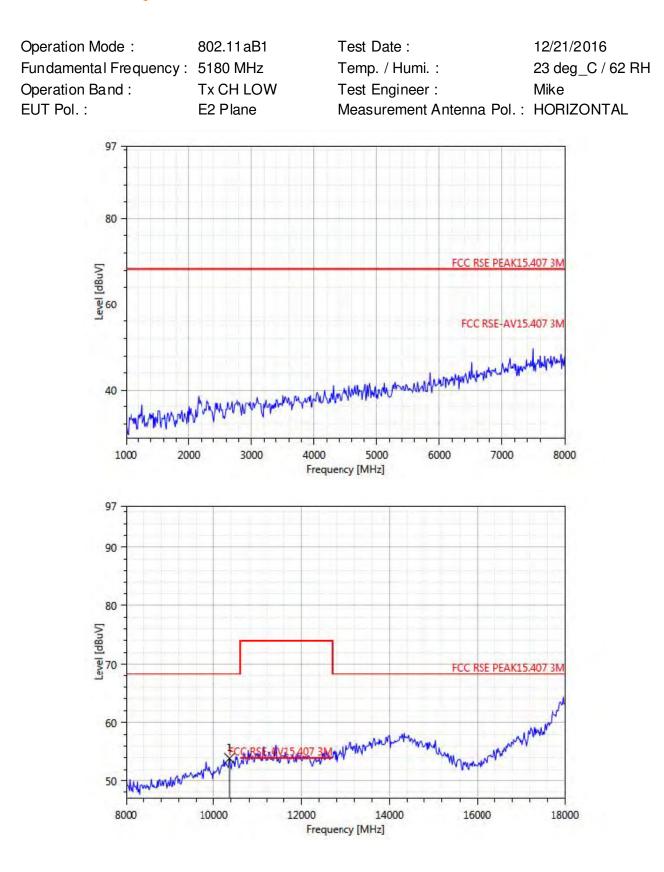
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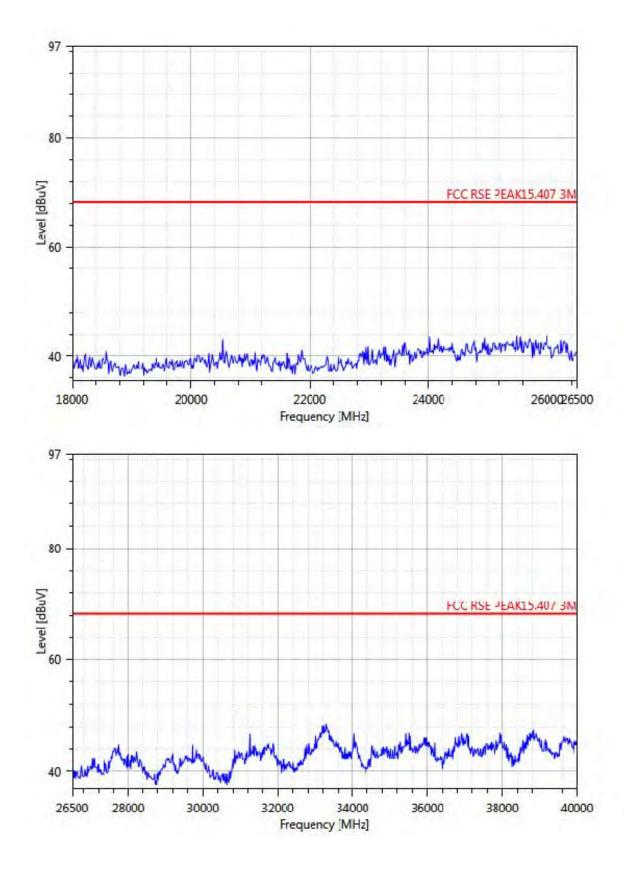
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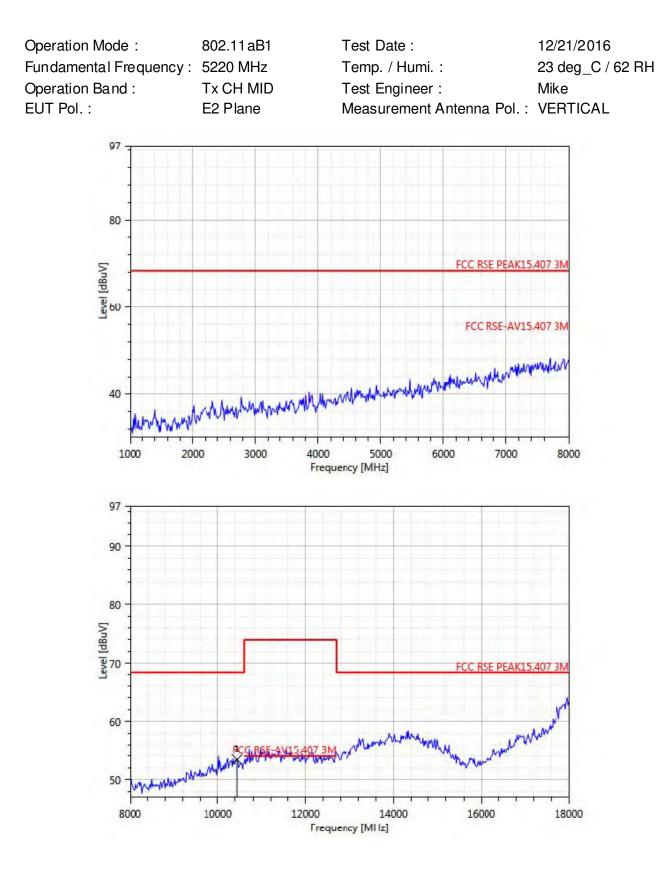
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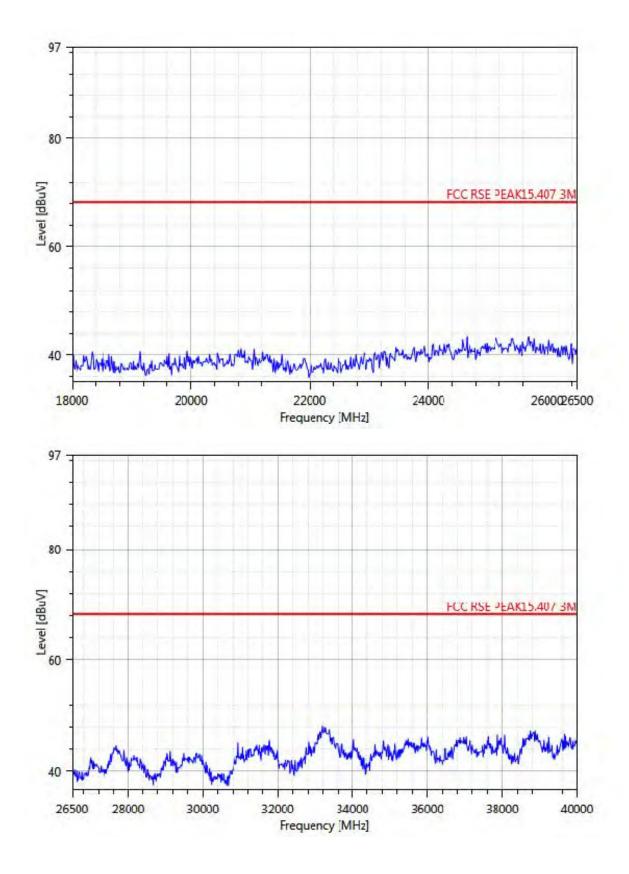




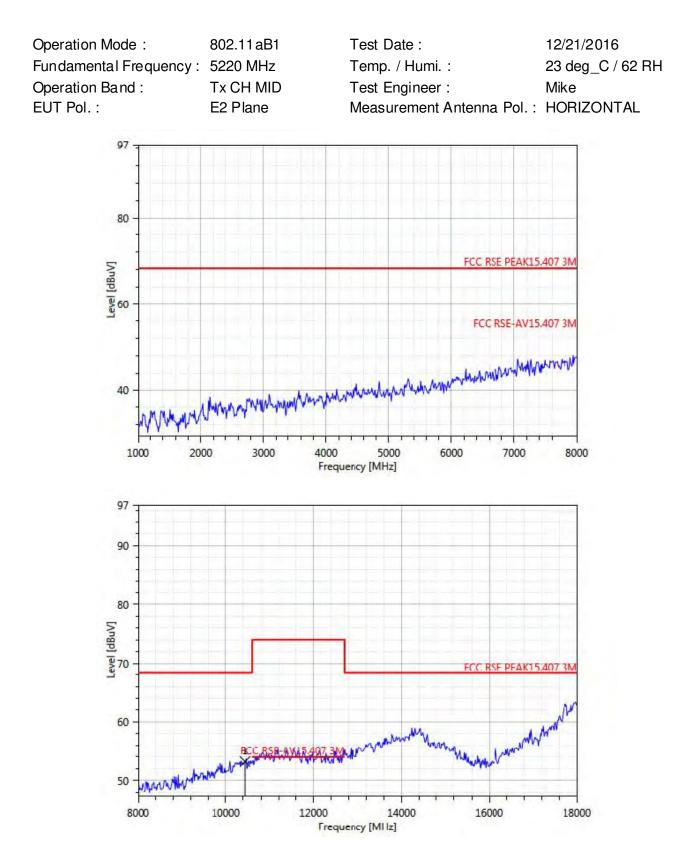
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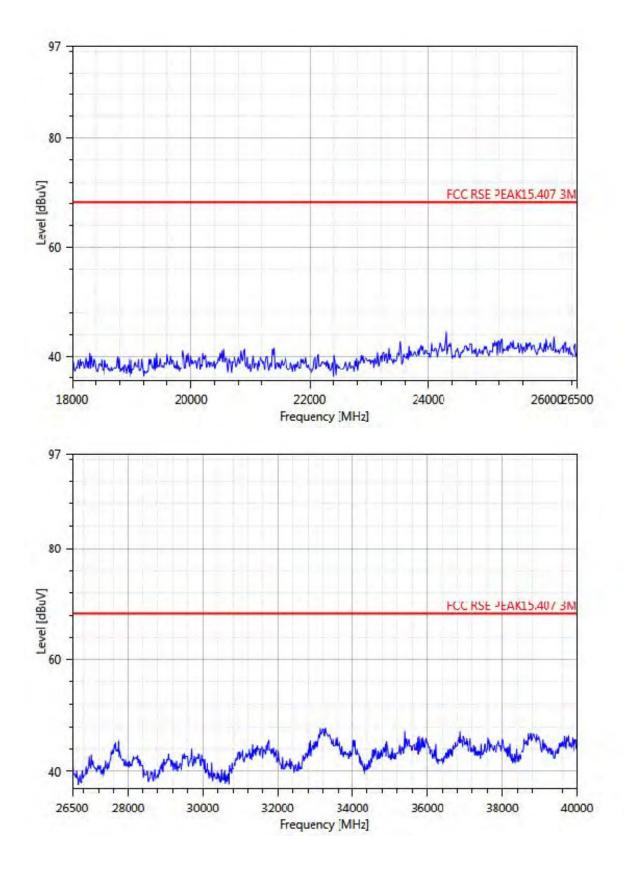




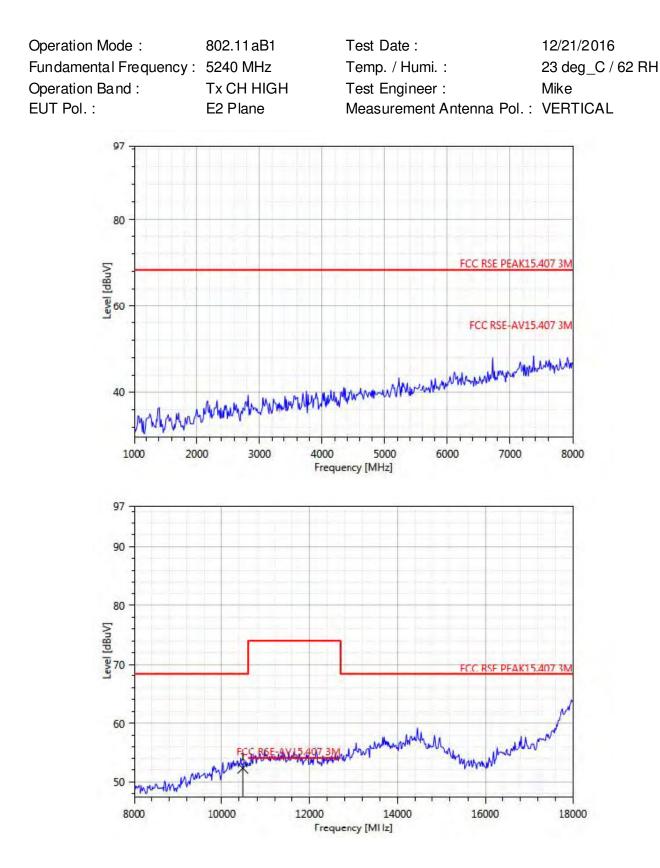
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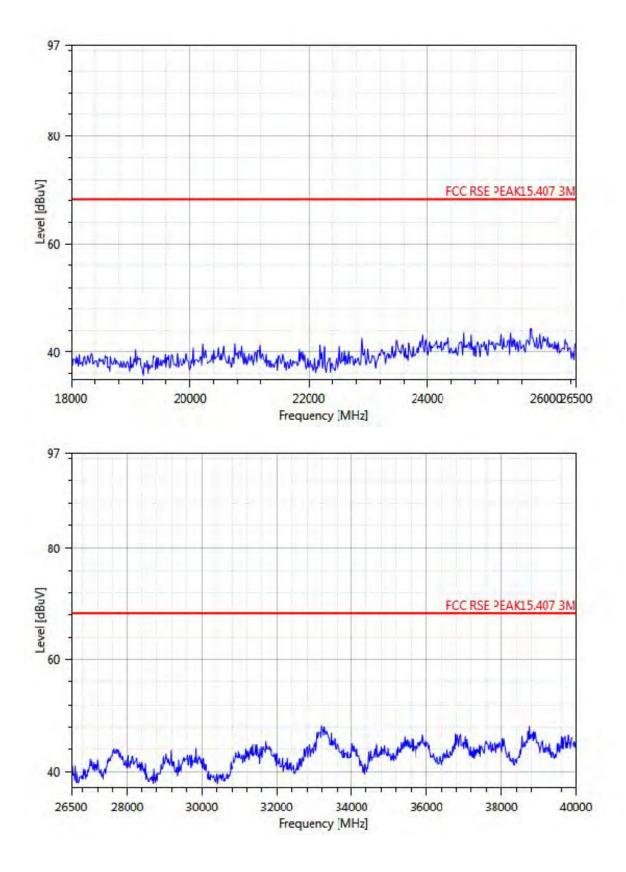




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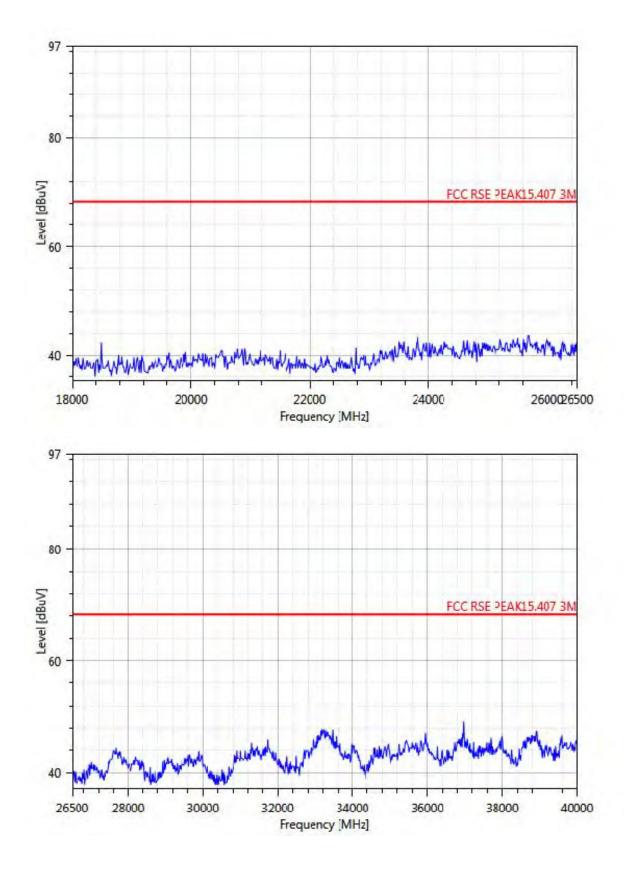


**Operation Mode :** 802.11 aB1 Test Date : 12/21/2016 Fundamental Frequency: 5240 MHz Temp. / Humi. : 23 deg C / 62 RH **Operation Band : Tx CH HIGH** Test Engineer : Mike EUT Pol. : E2 Plane Measurement Antenna Pol.: HORIZONTAL 97 80 Level [dBuV] FCC RSE PEAK15.407 3M FCC RSE-AV15.407 3M and when and a support of the suppor 40 1000 2000 3000 4000 5000 6000 7000 8000 Frequency [MHz] 97 90 80 Level [dBuV] FCC RSE PEAK15 407 3 60 50 Ann 10000 14000 18000 8000 12000 16000 Frequency [MI Iz]

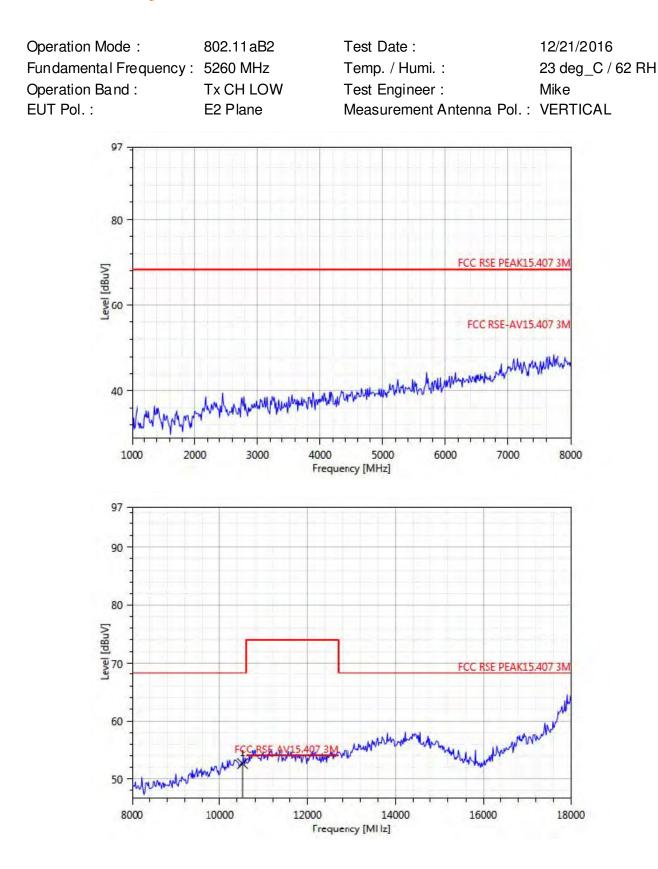
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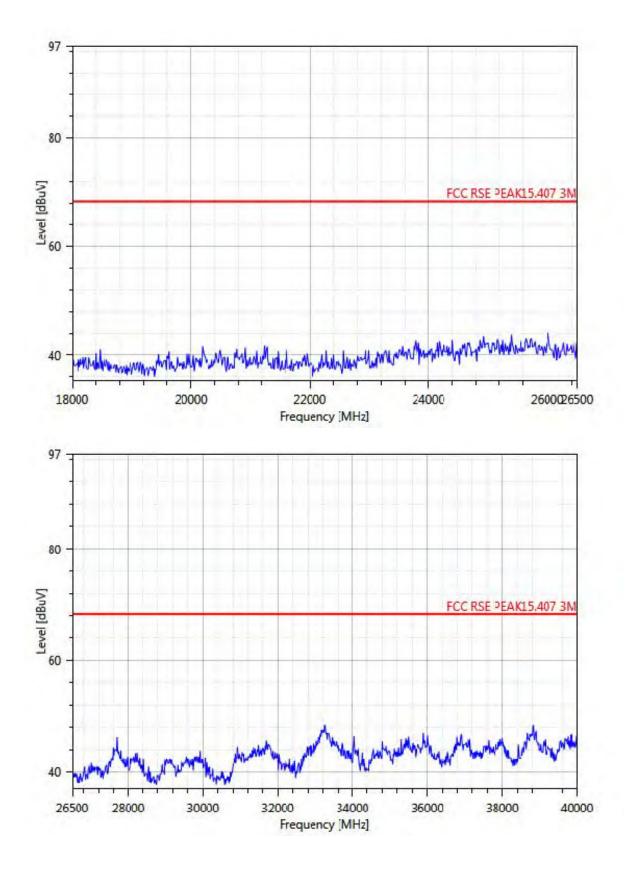




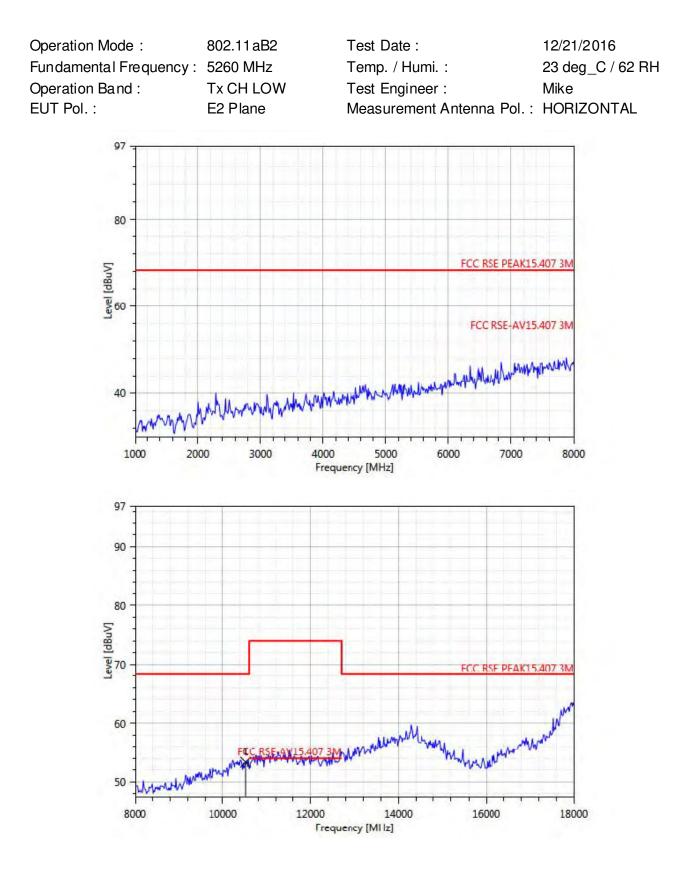








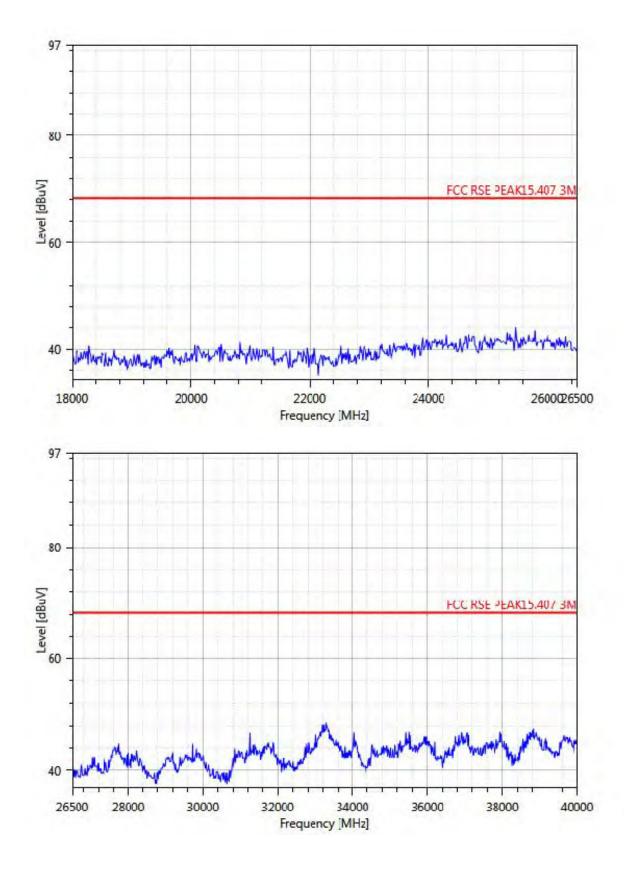




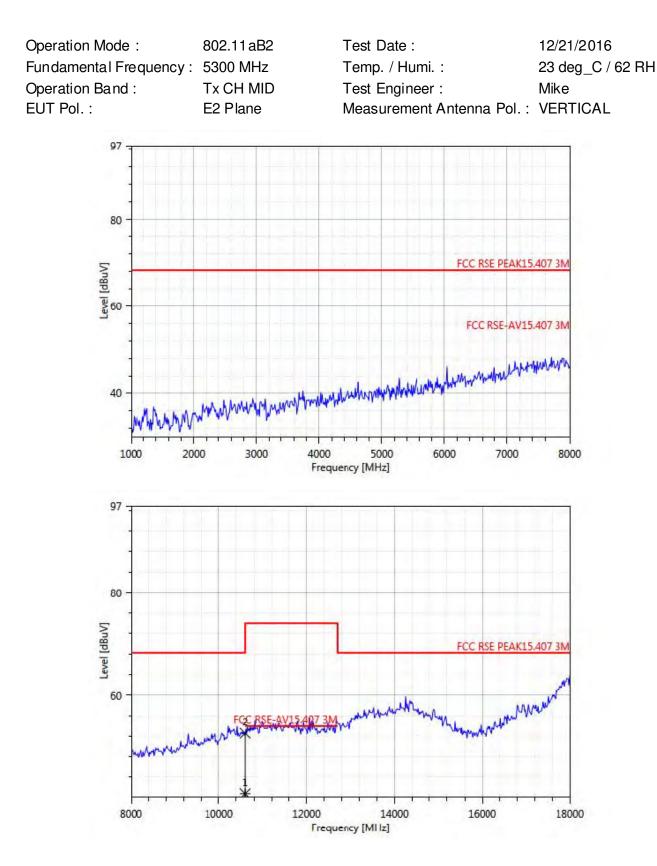
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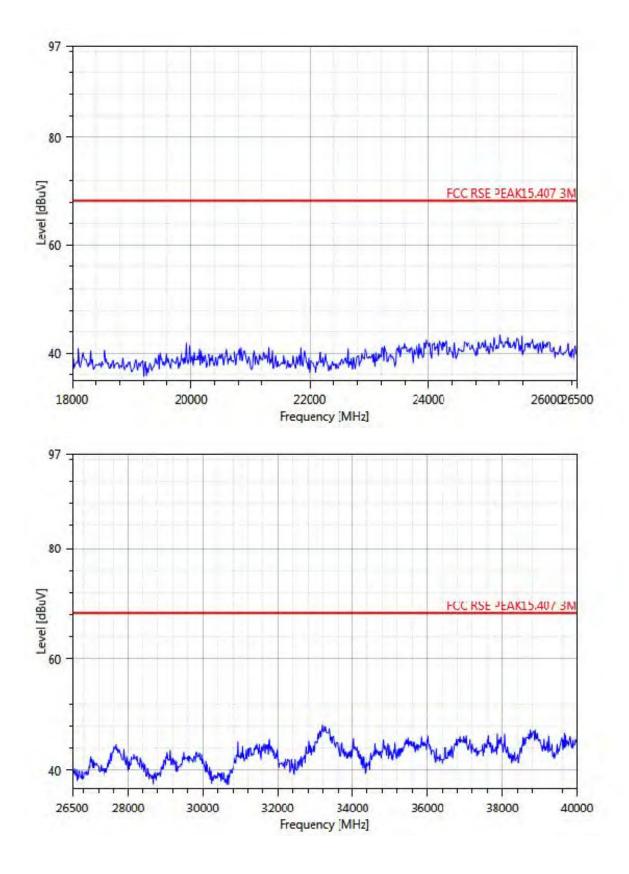




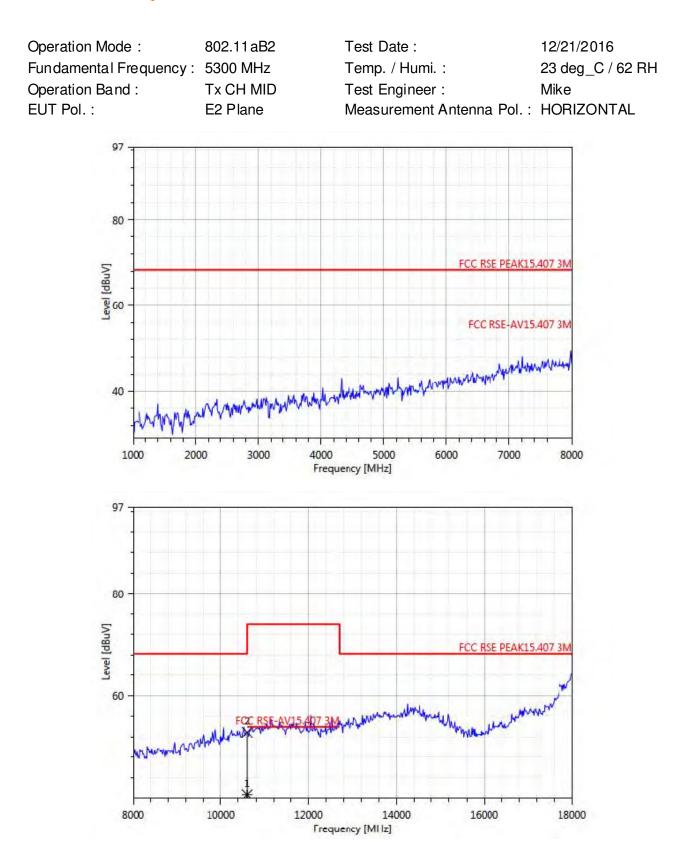




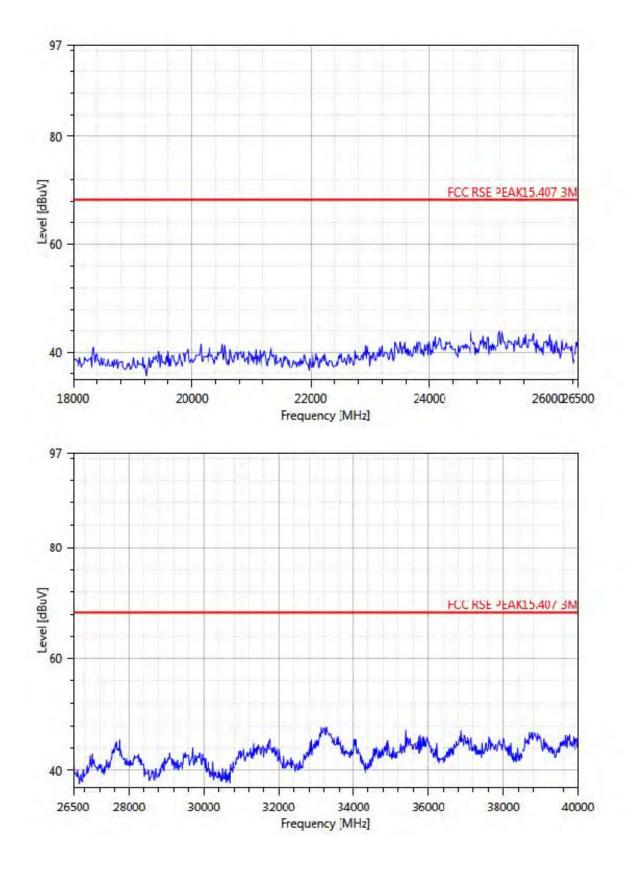




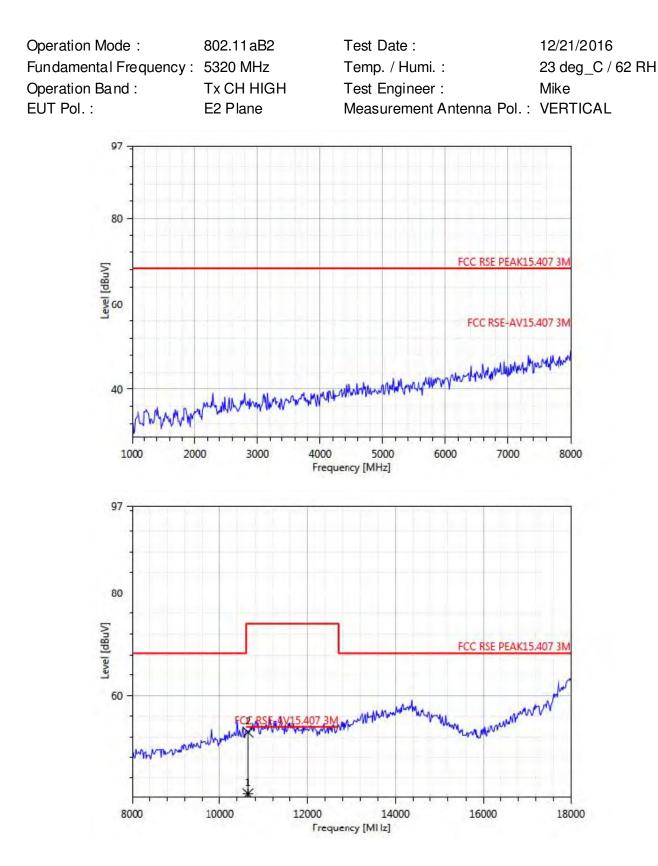




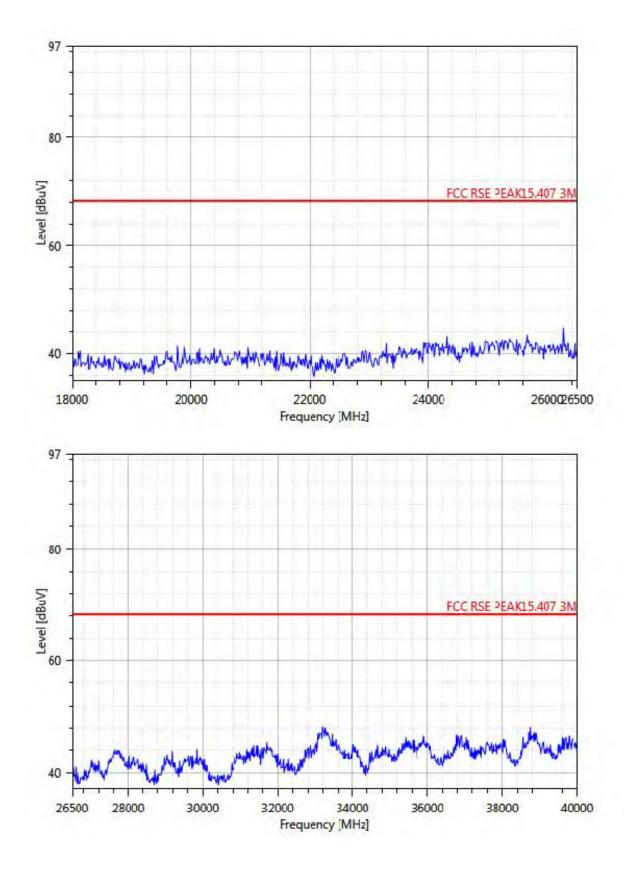




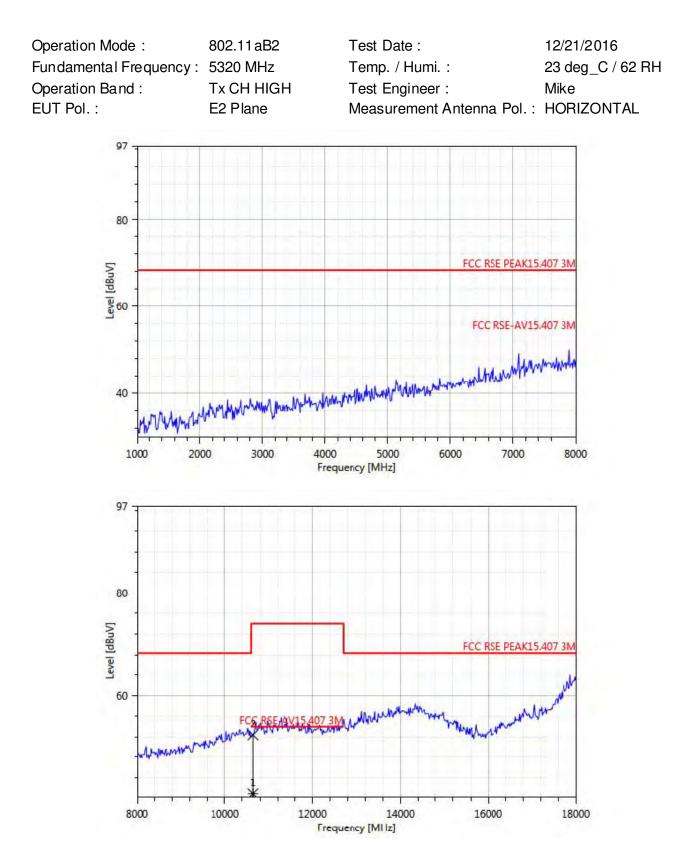




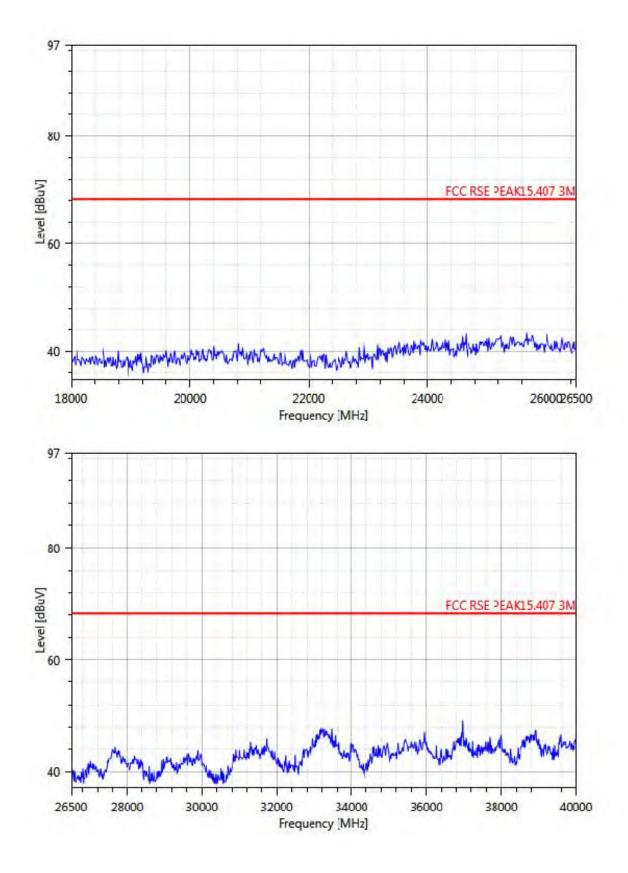




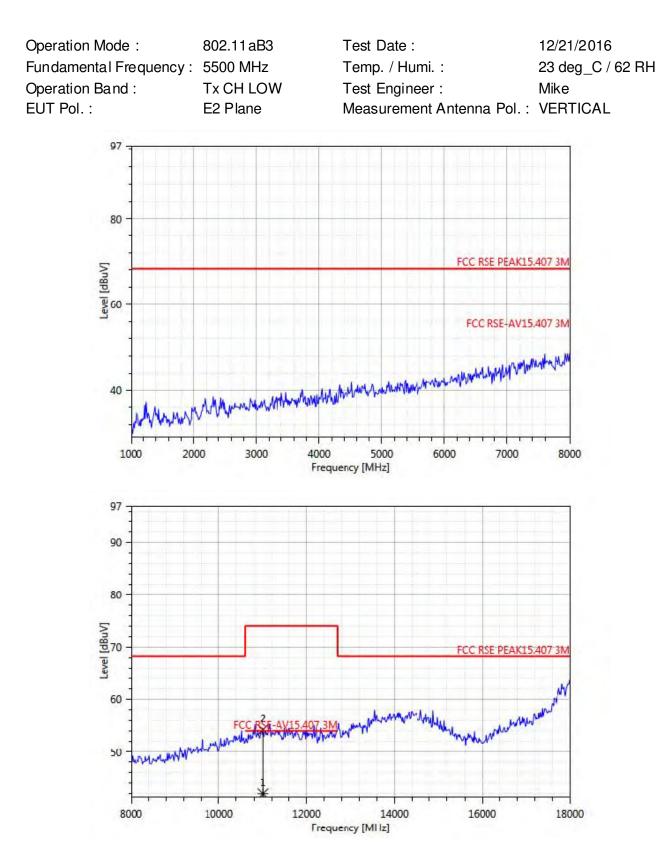








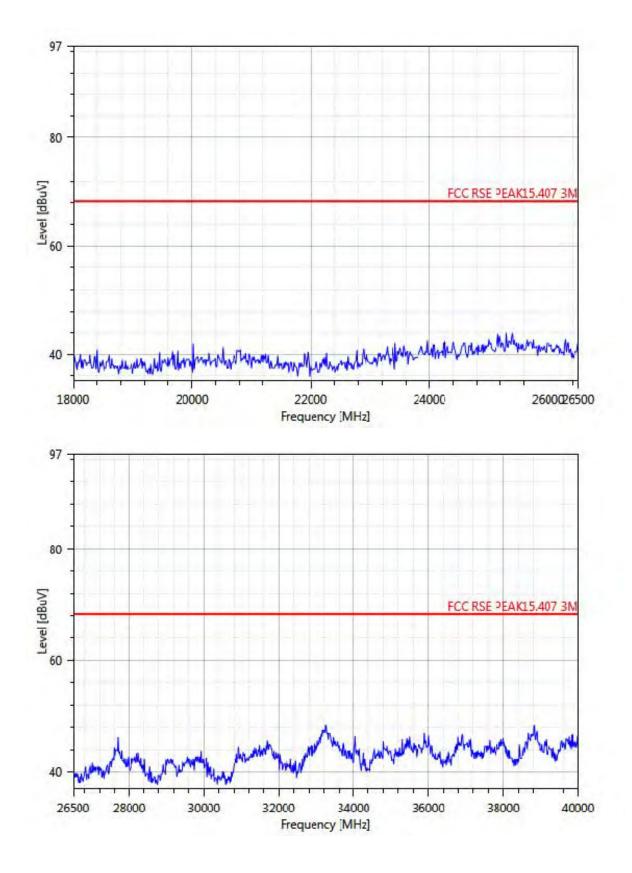




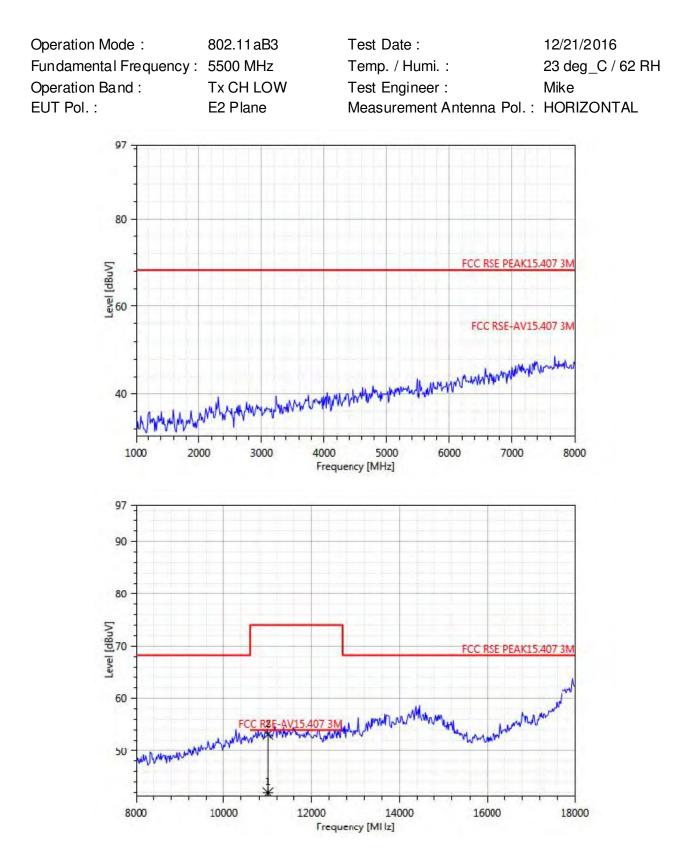
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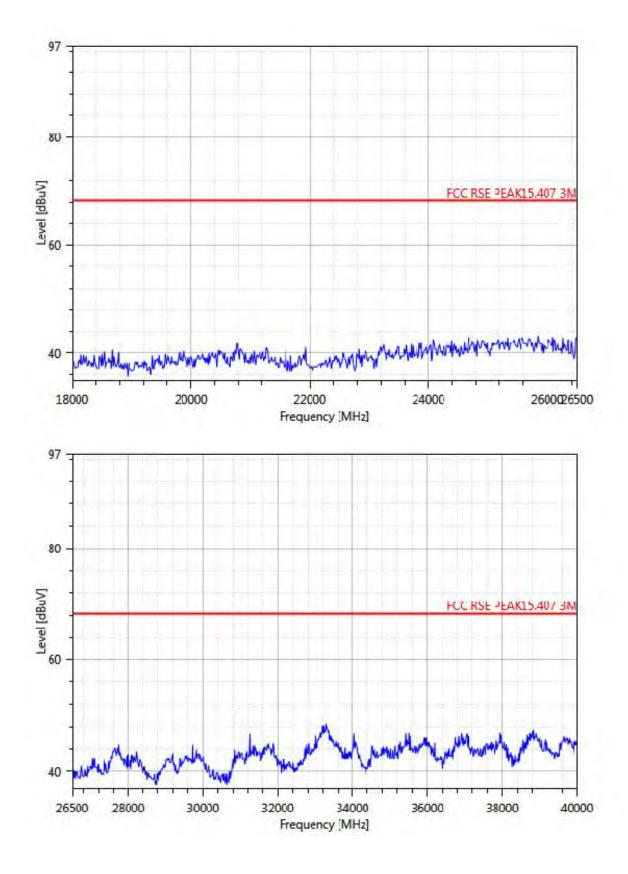




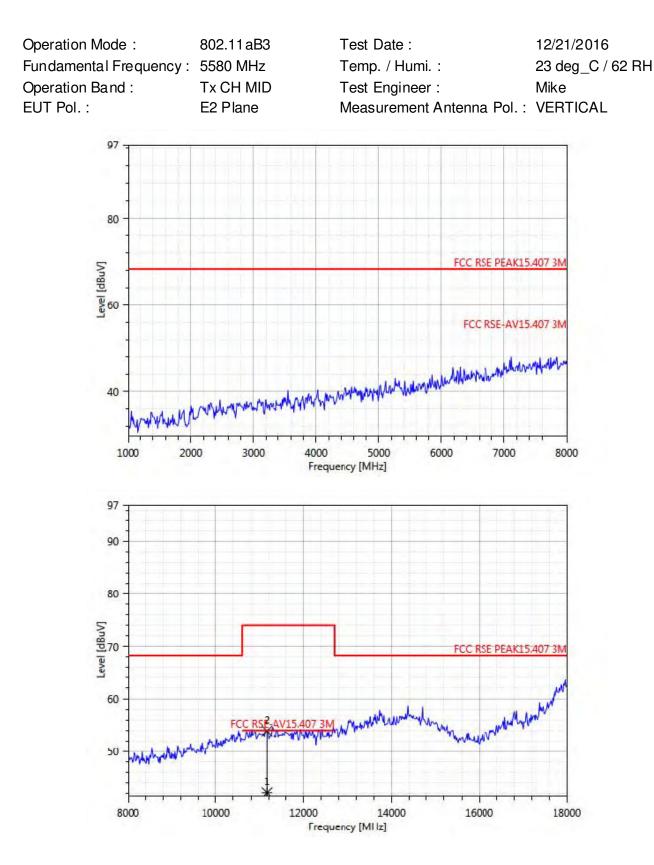
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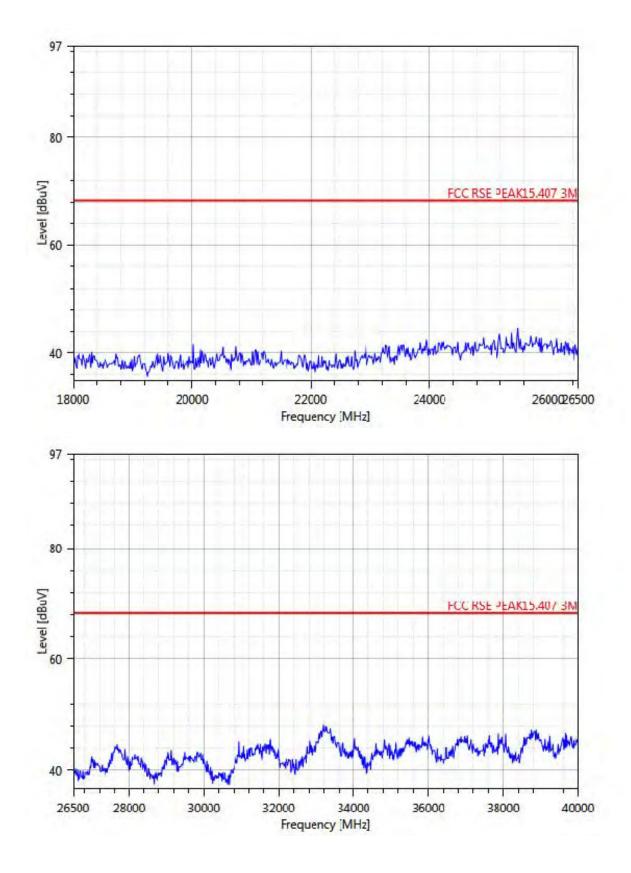




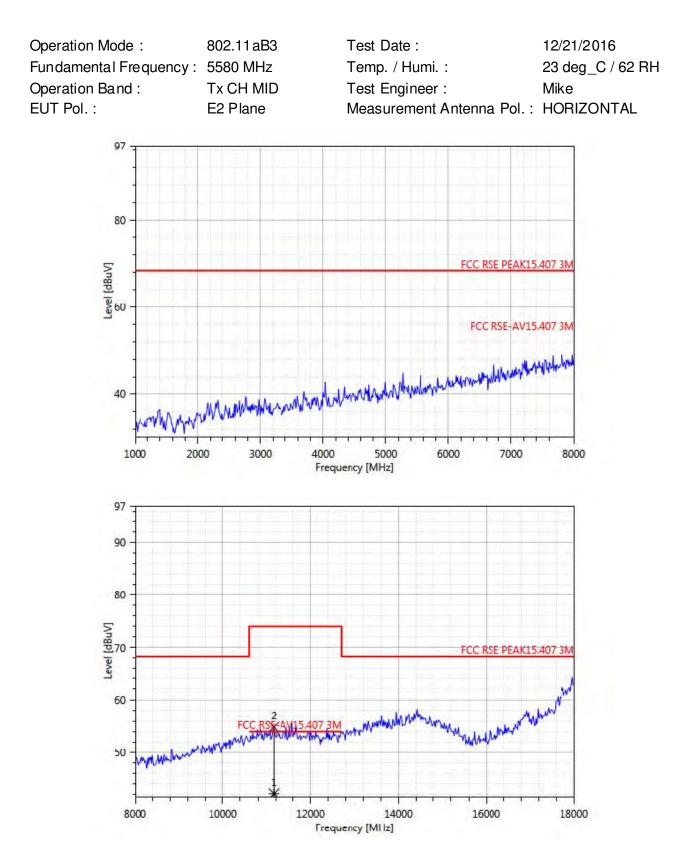
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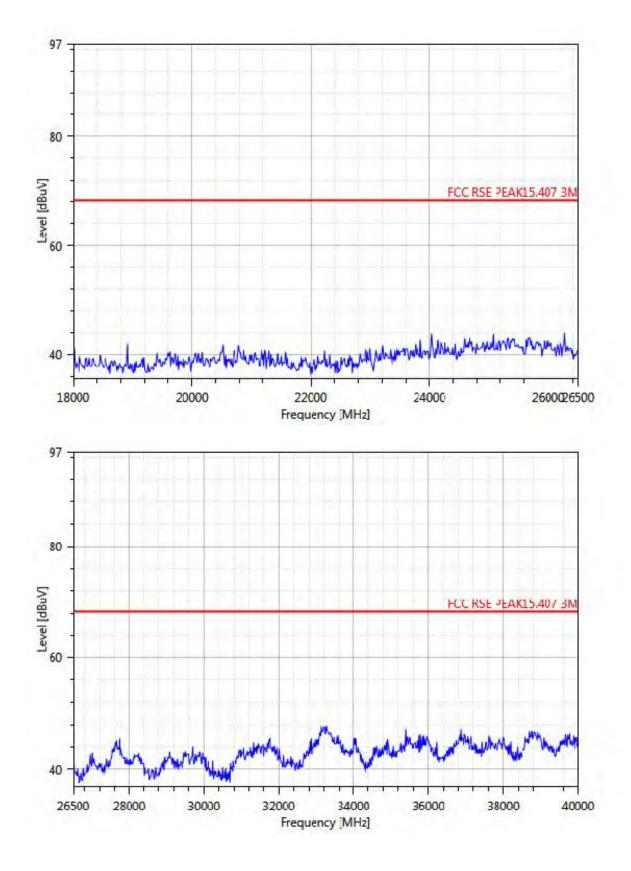




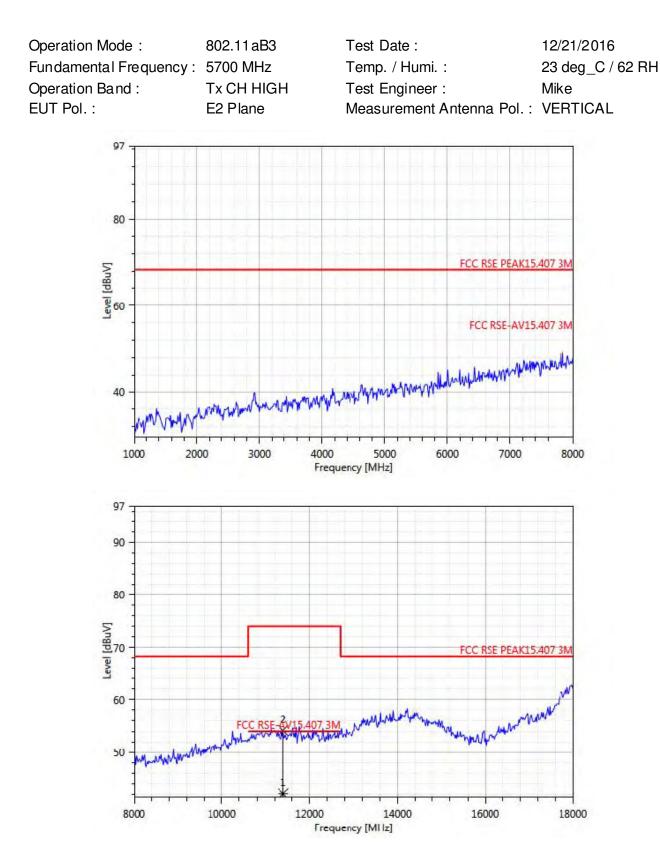
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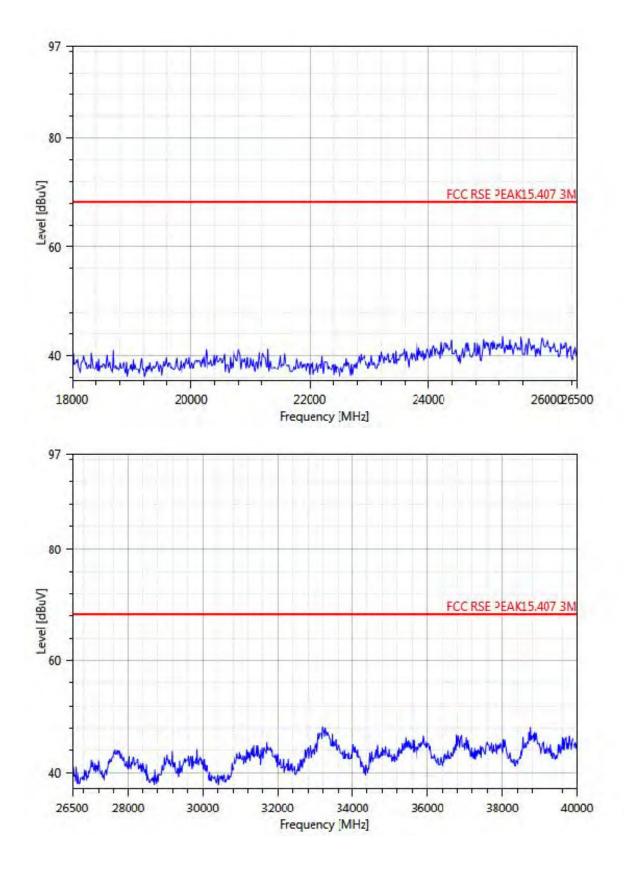




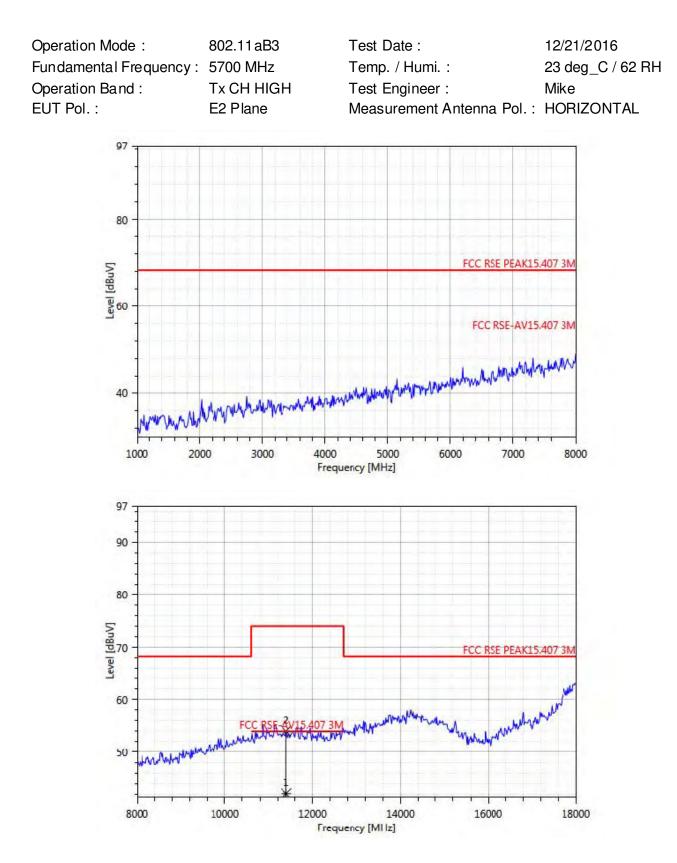
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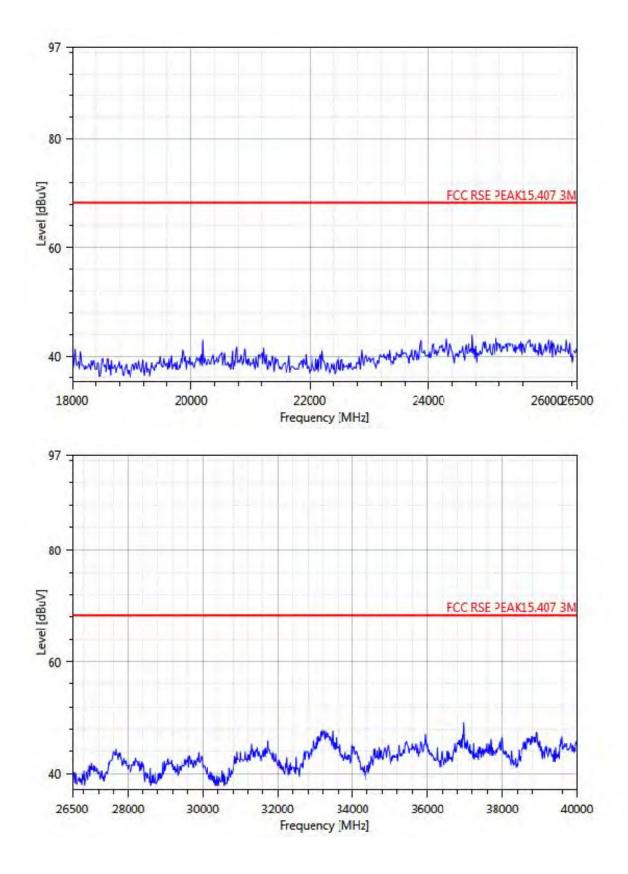




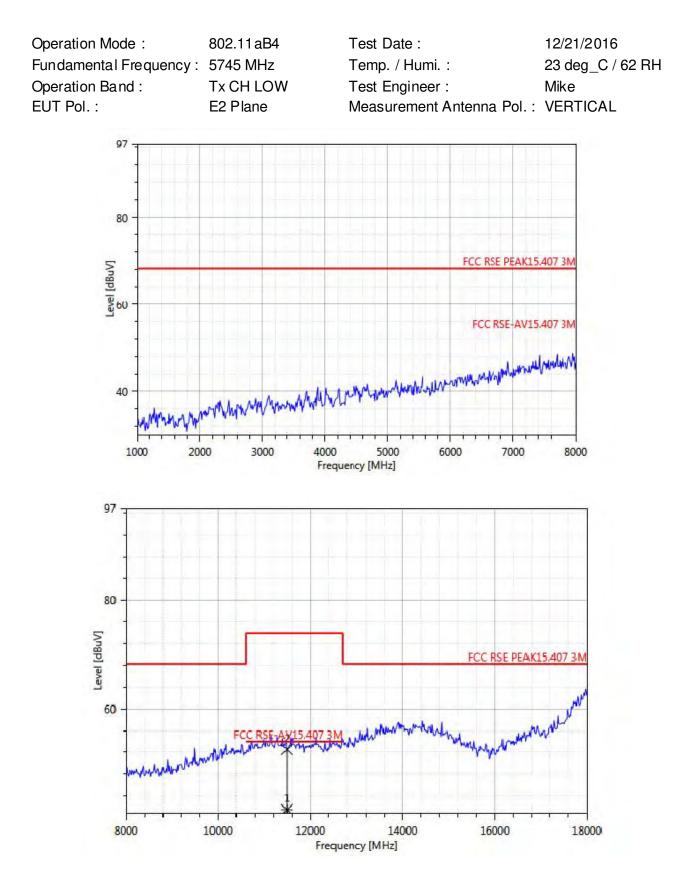
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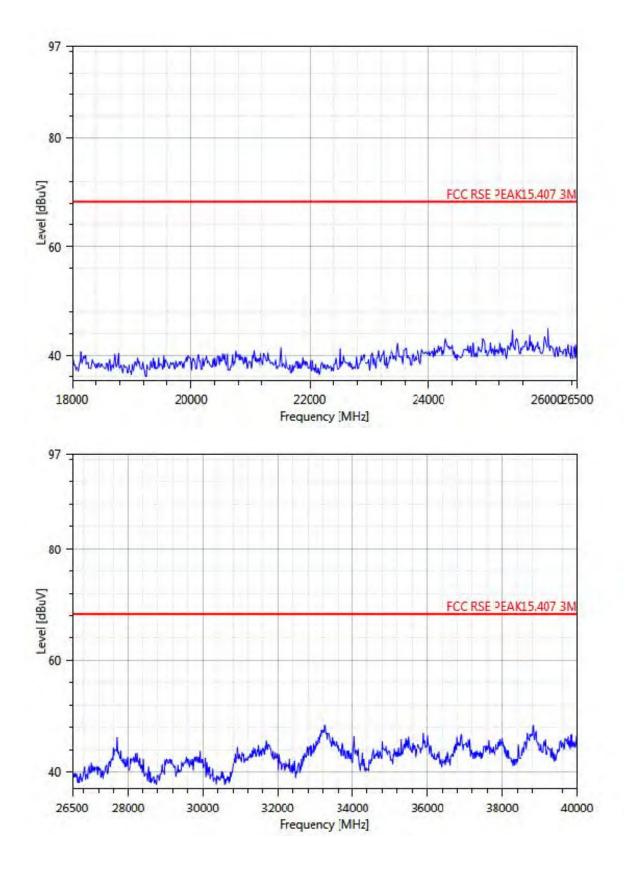




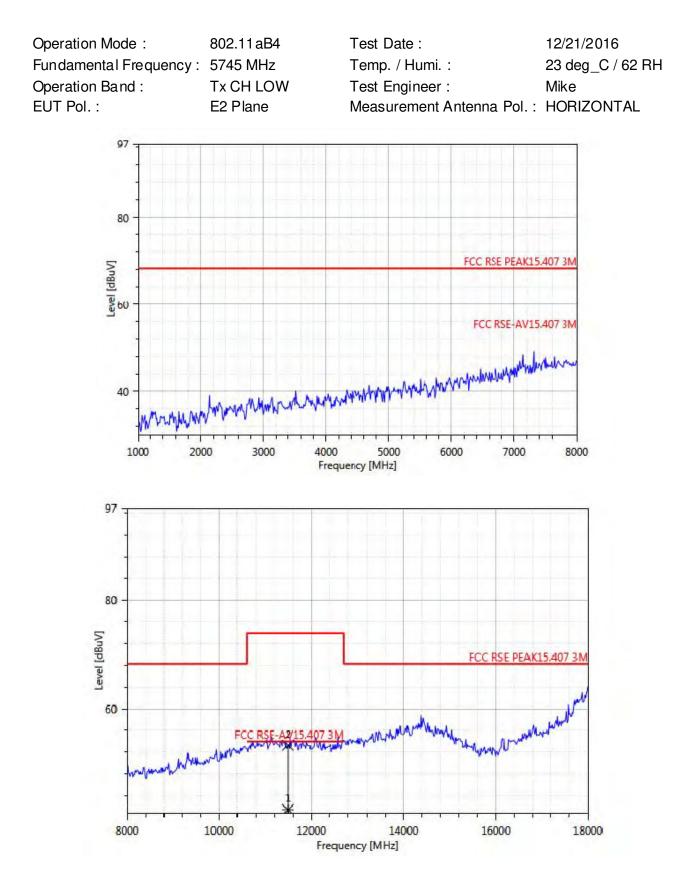
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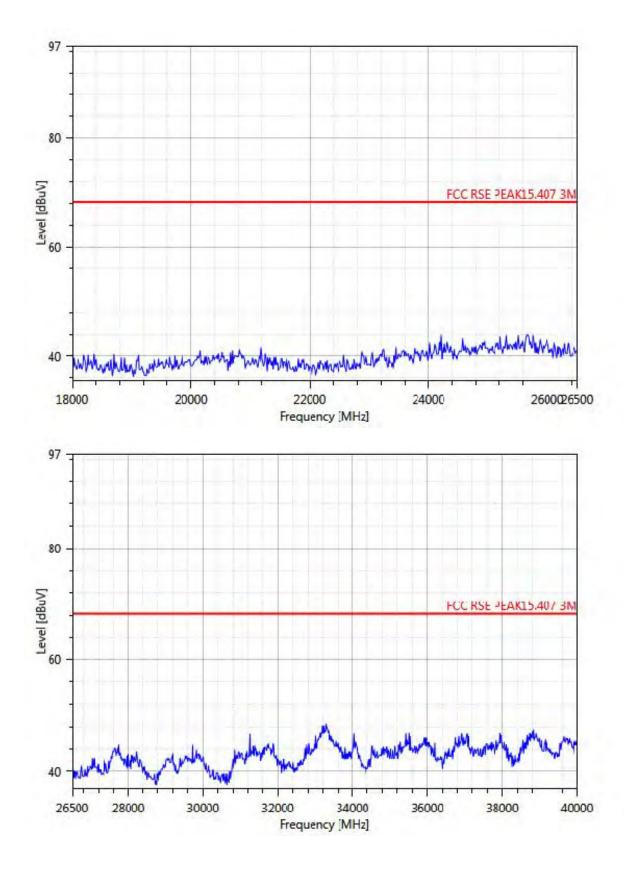


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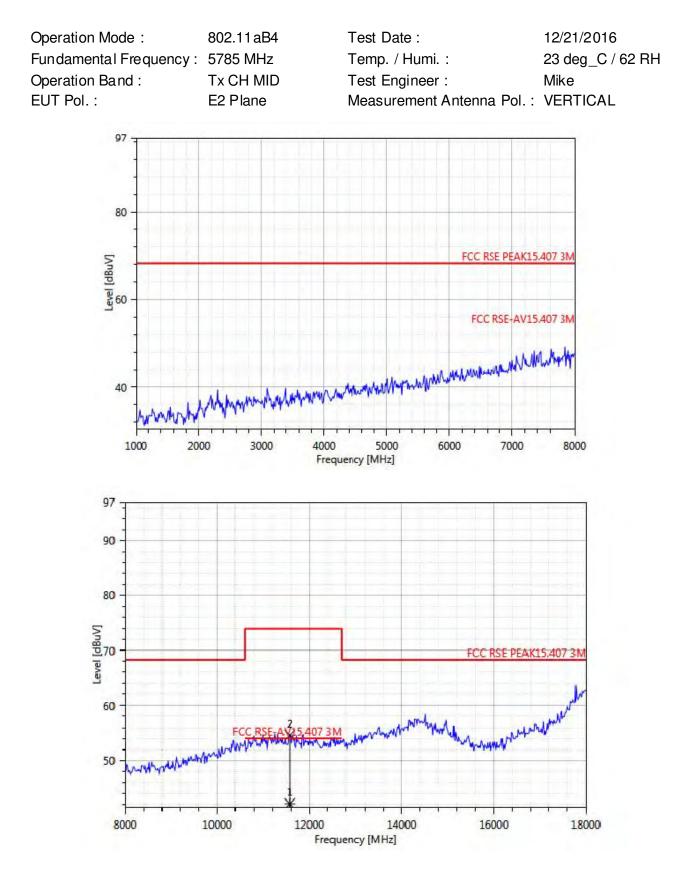
音得微微作仪成份有限公司 [1(000-2)2233-3273 1(000-2)2230-0400 www.tw.sgs.com	台灣檢驗科技股份有限公司	2299-3279	f (886-2) 2298-0488	www.tw.sgs.com
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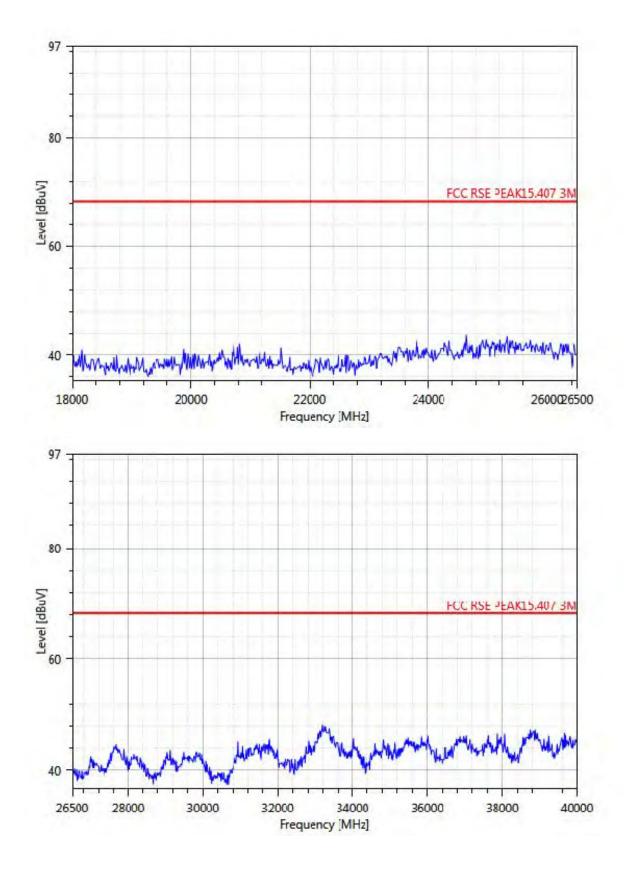


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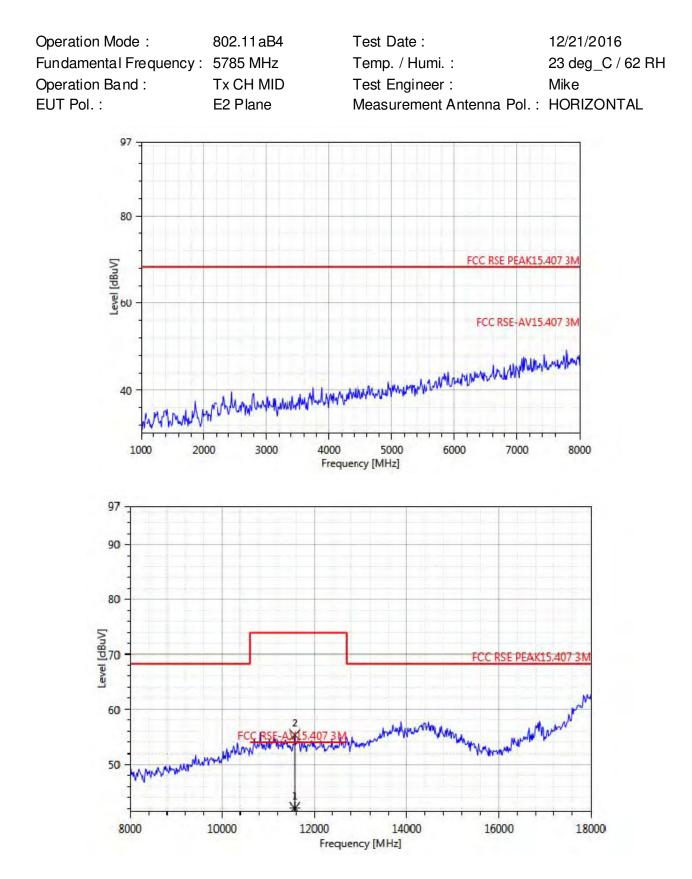
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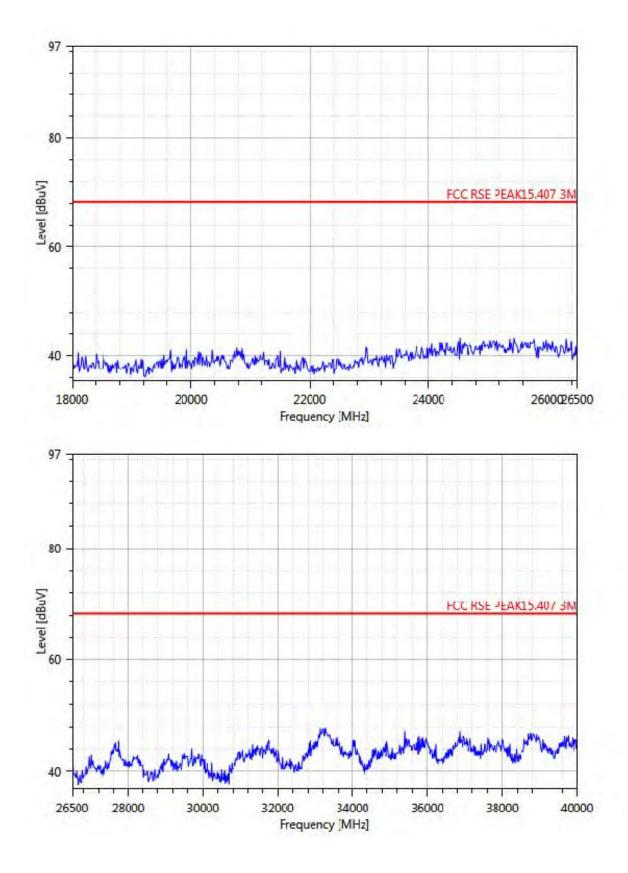


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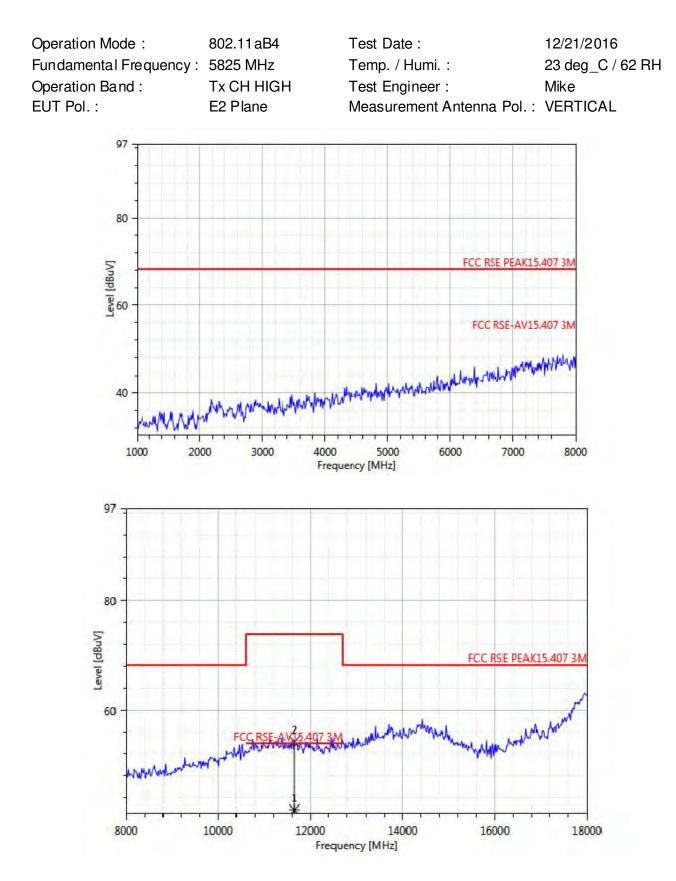
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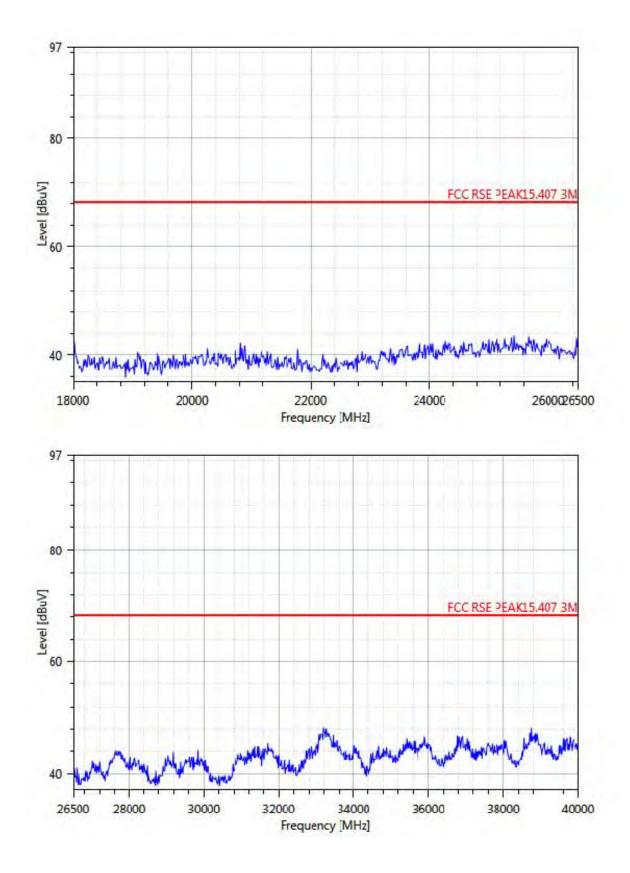




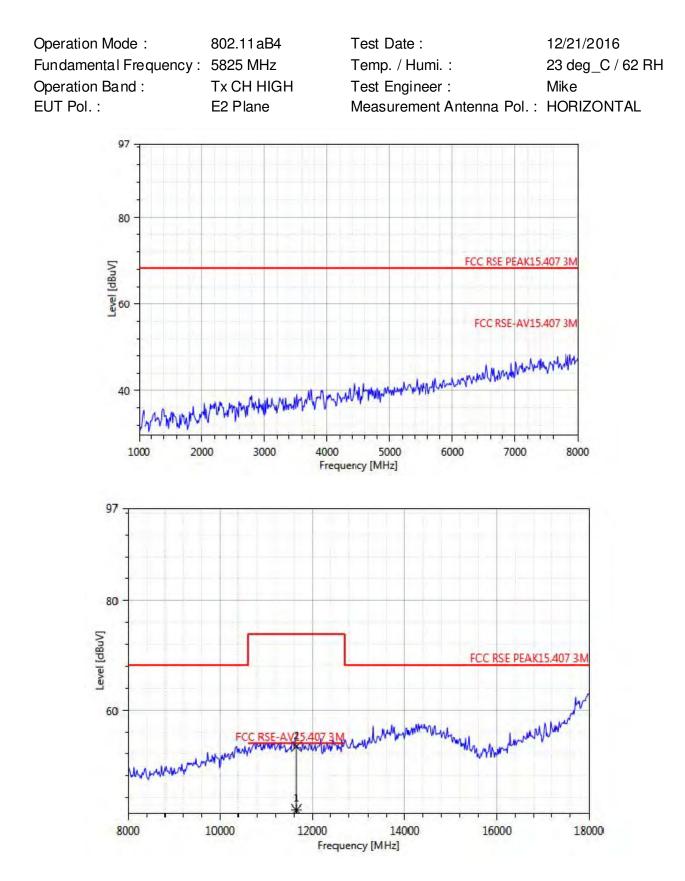


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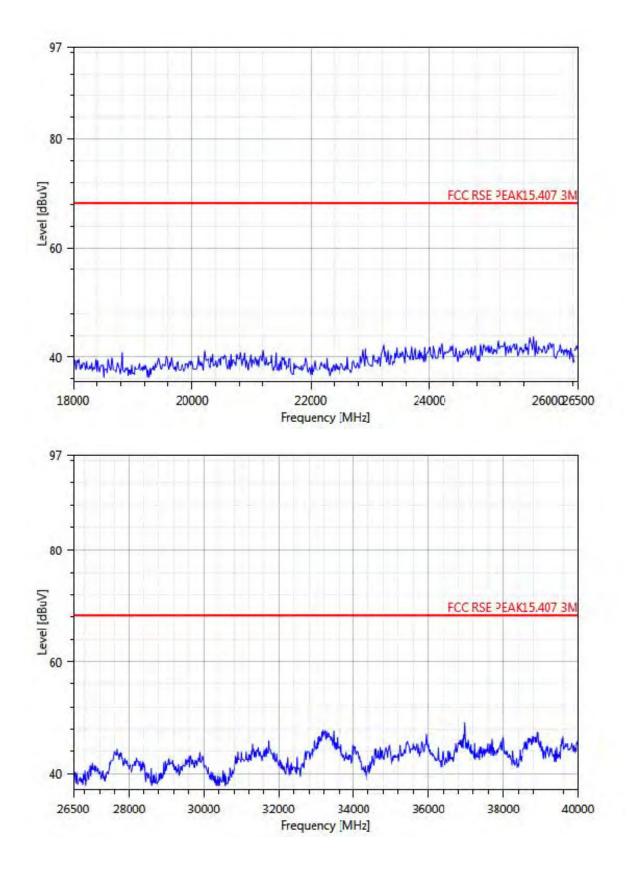




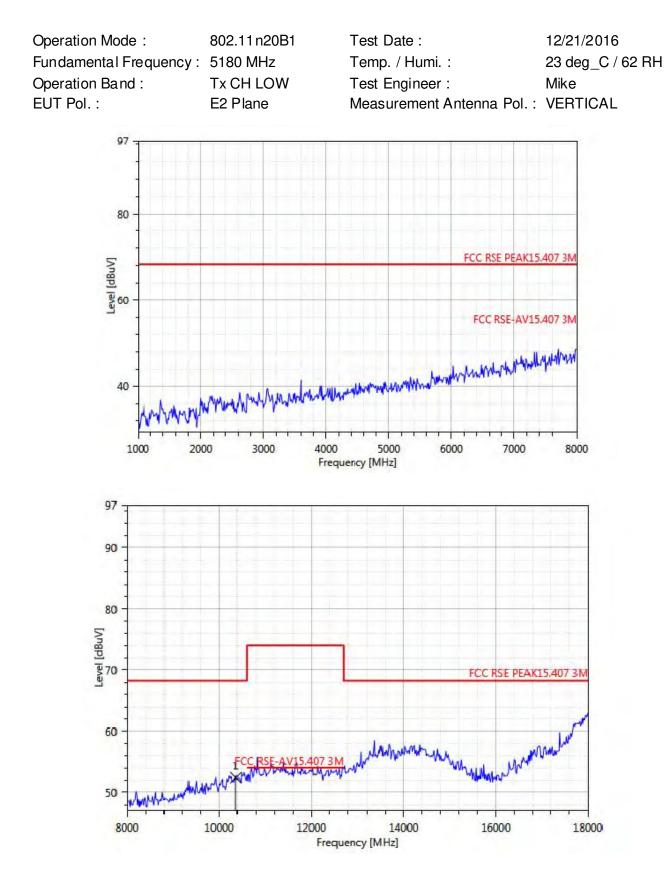


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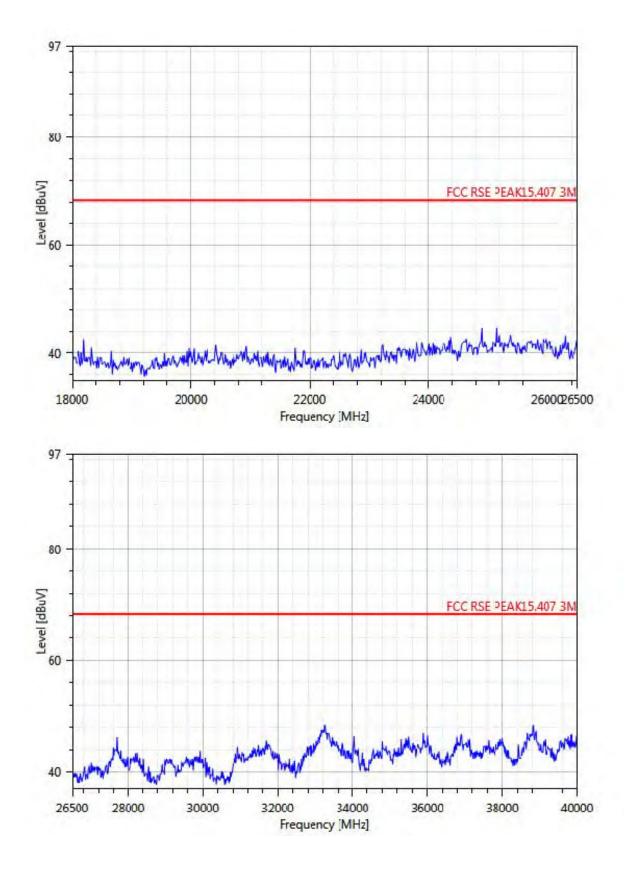




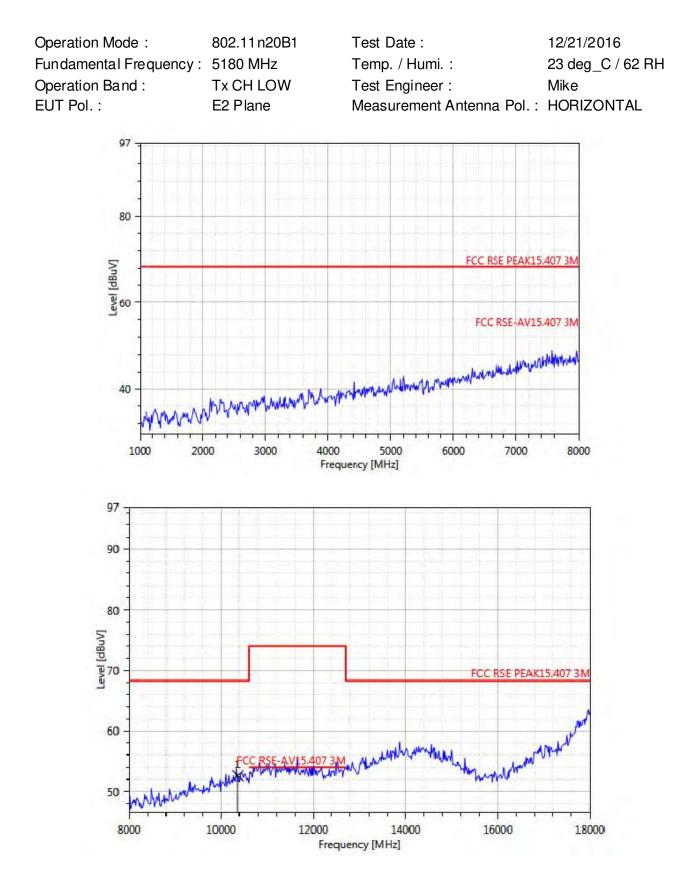


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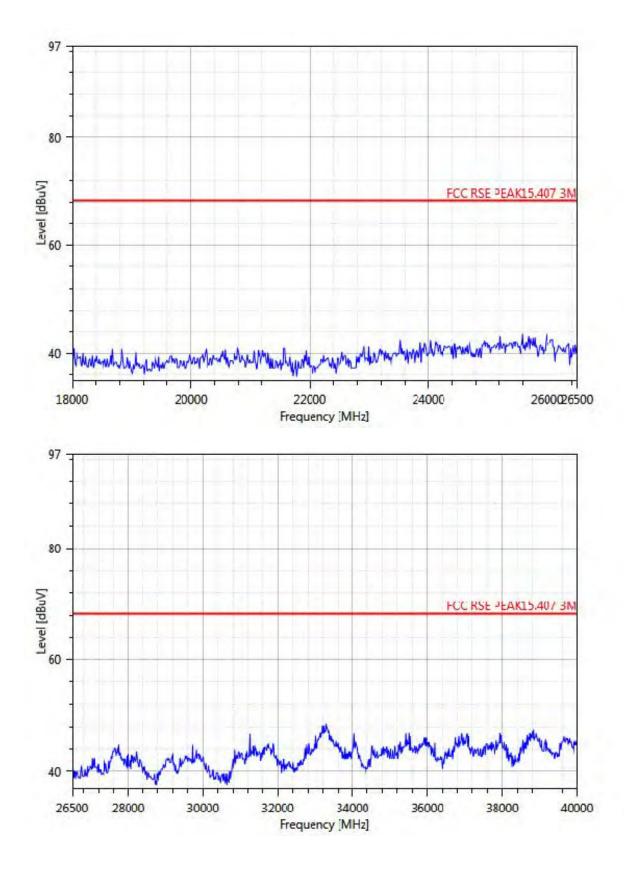




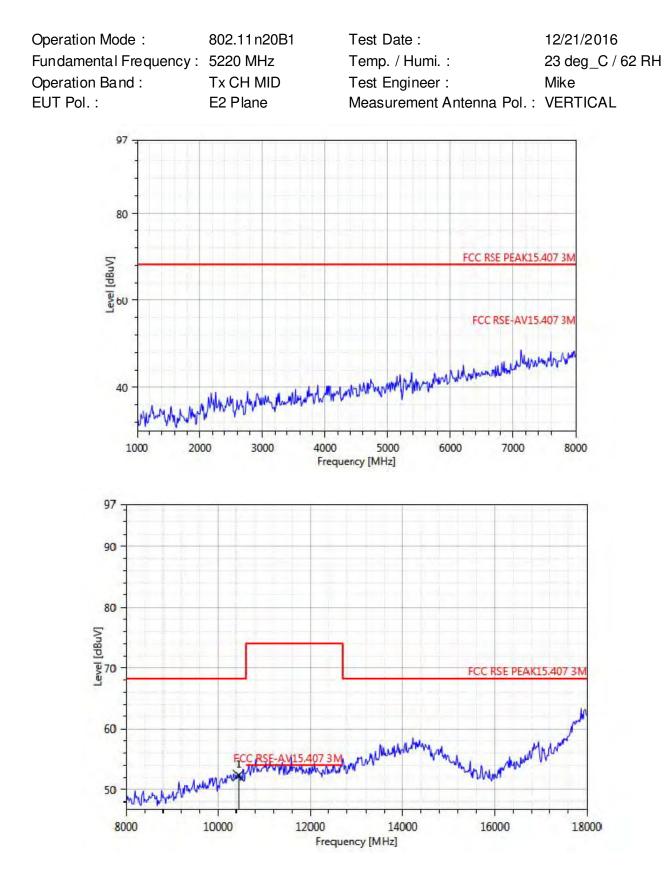
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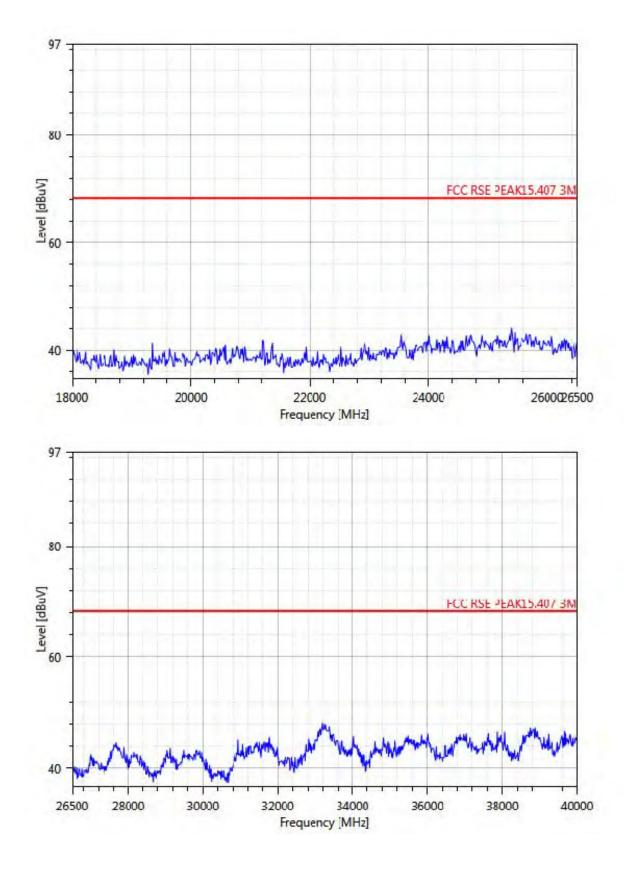




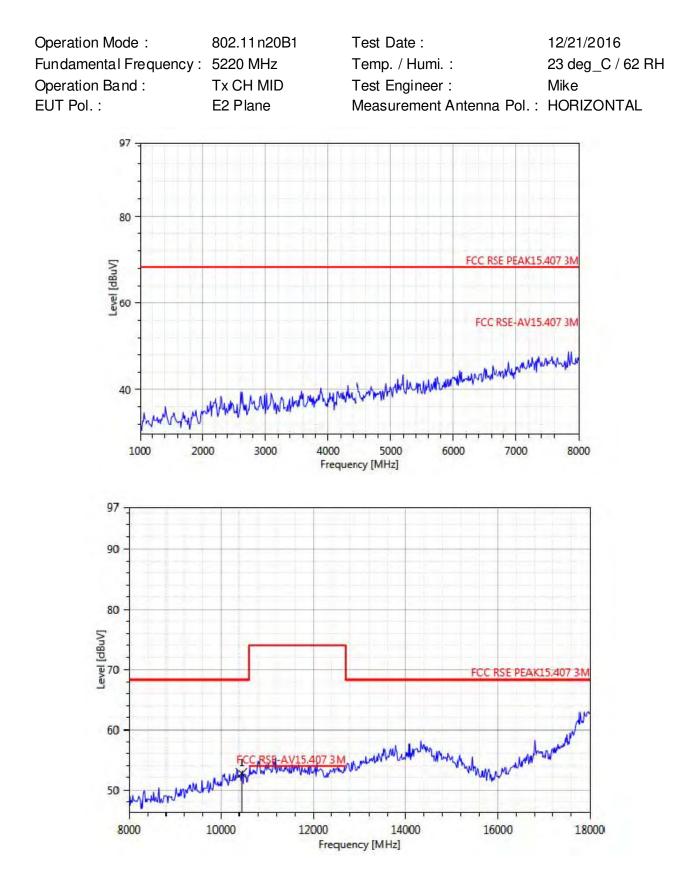


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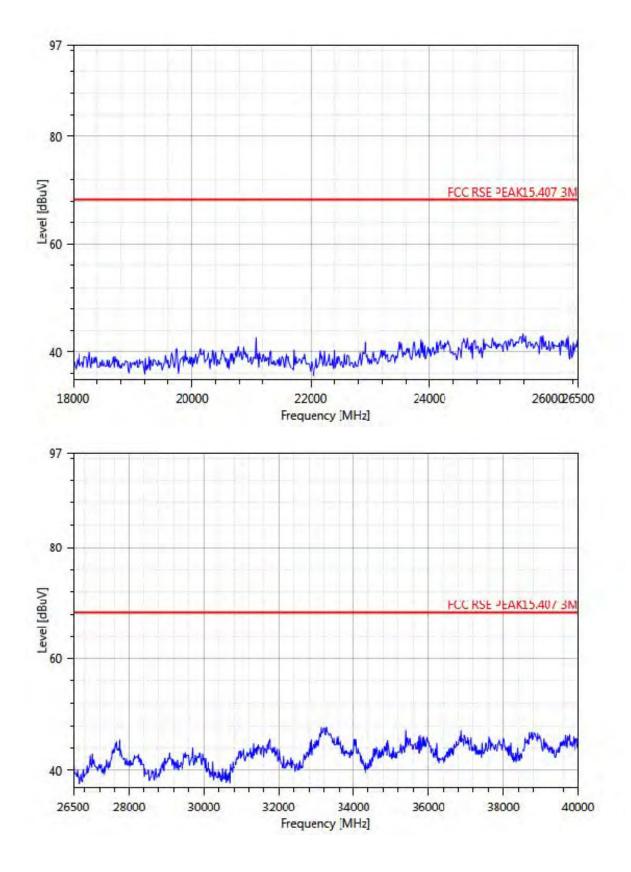




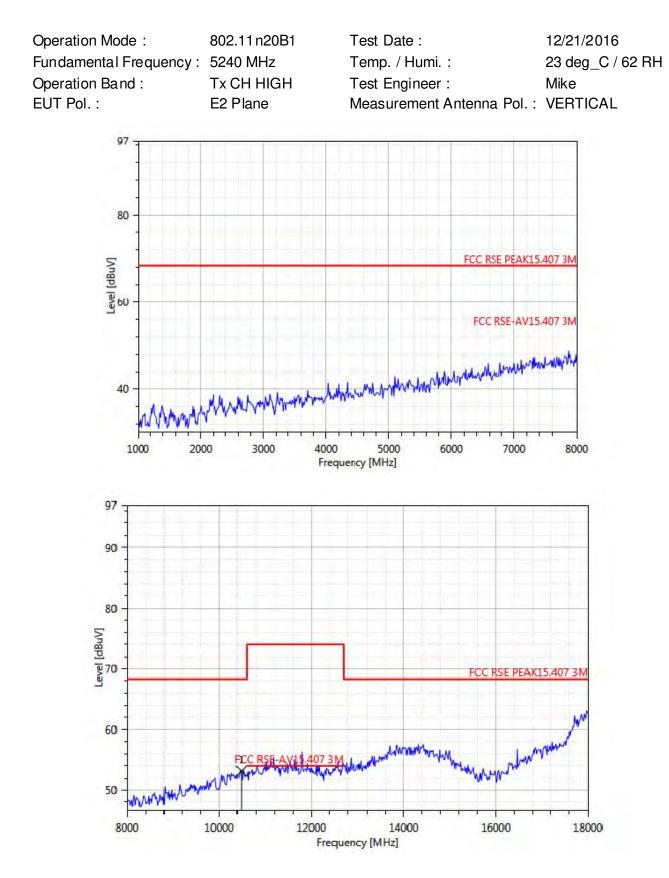


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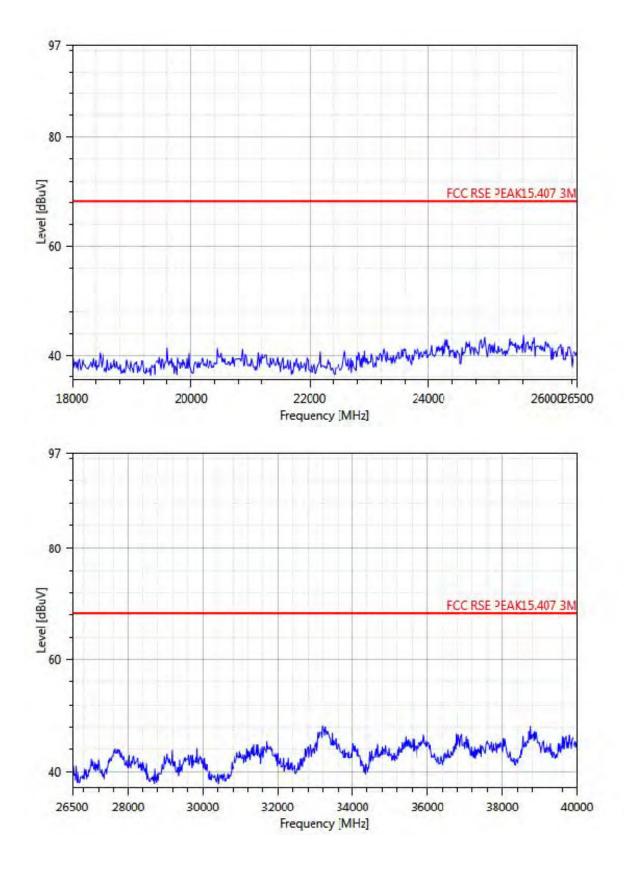




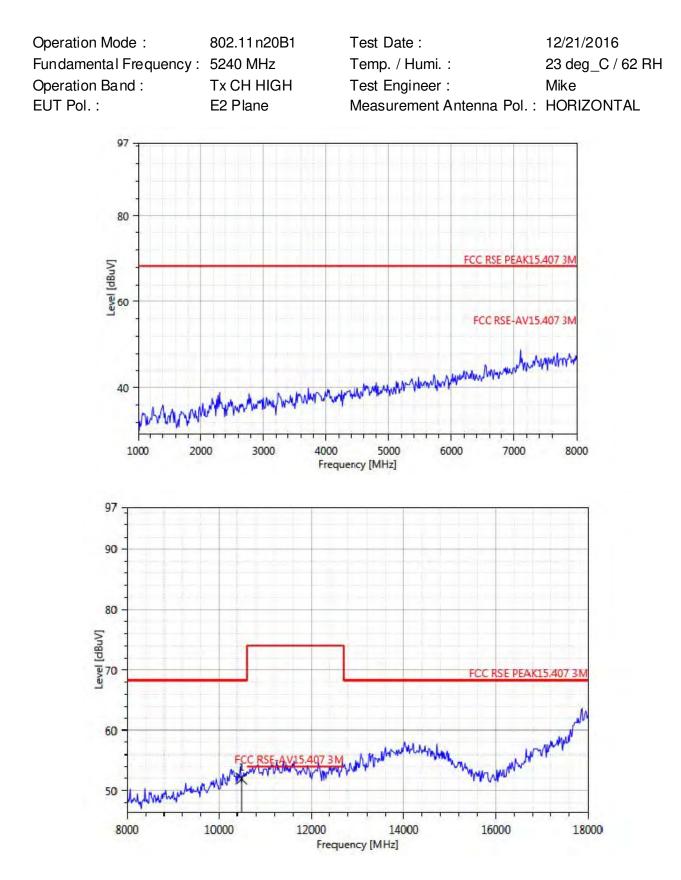






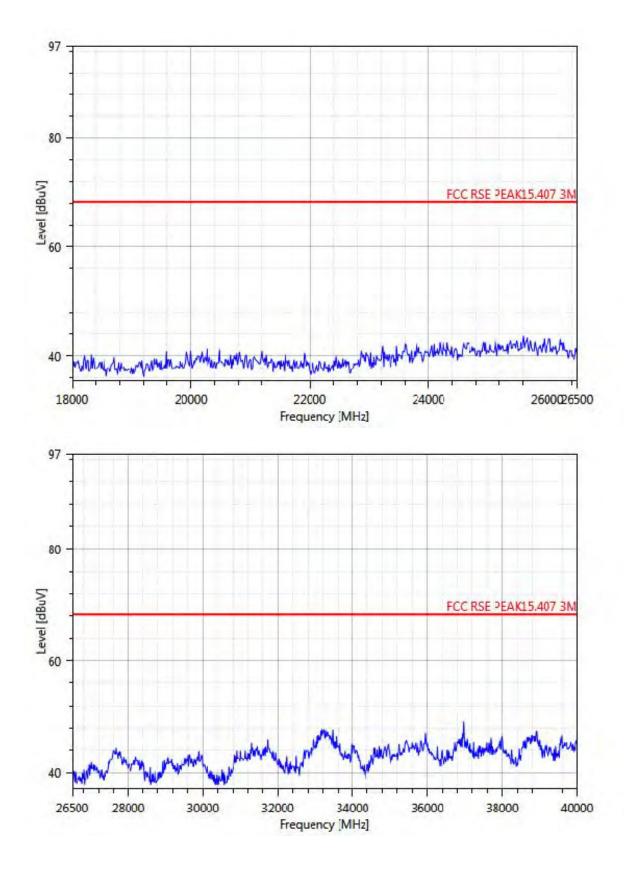




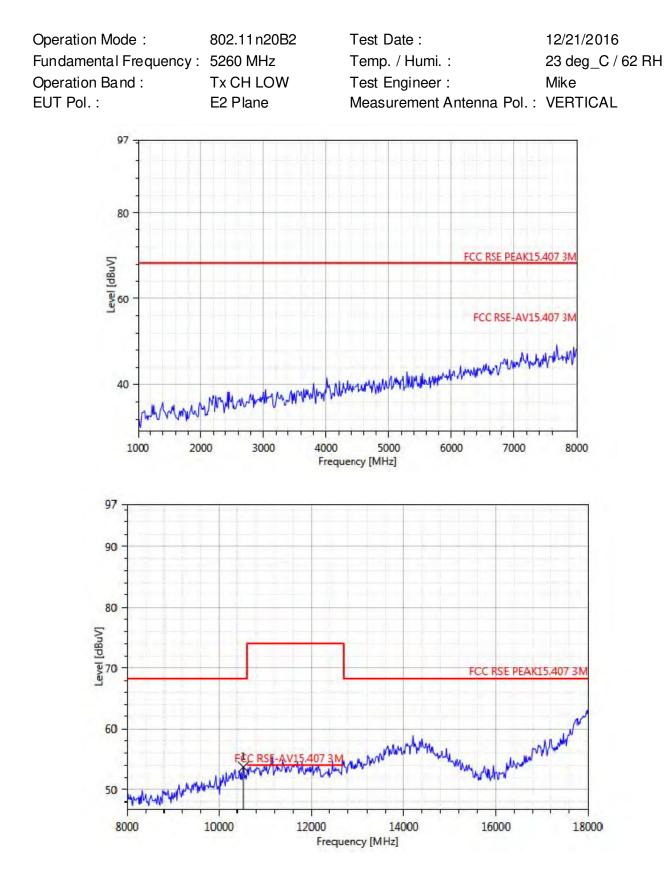


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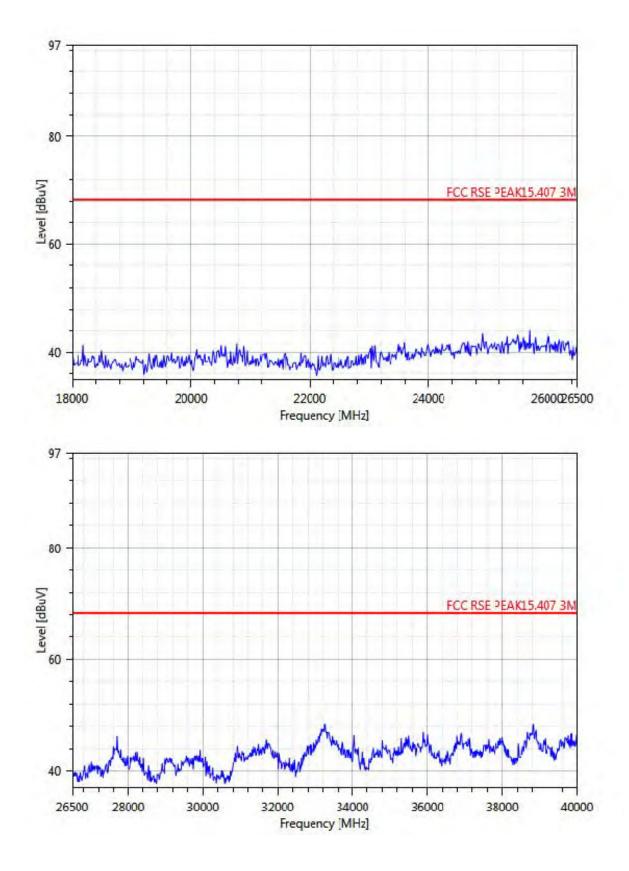






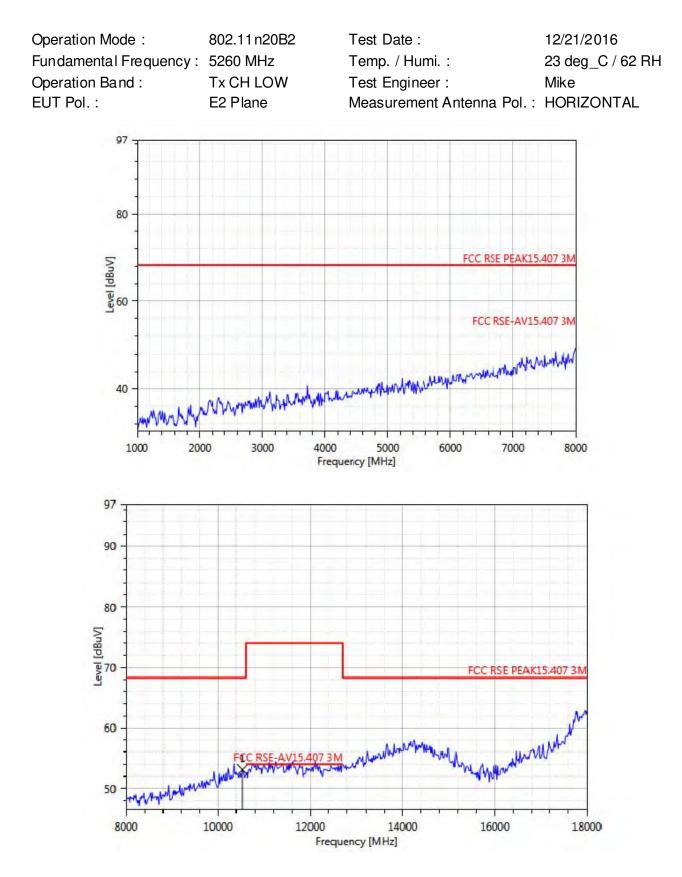
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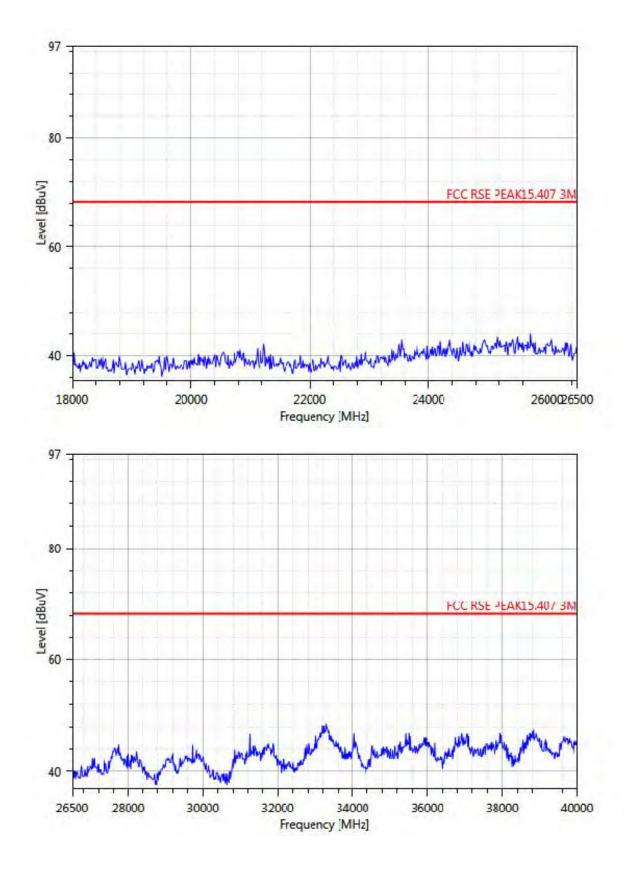
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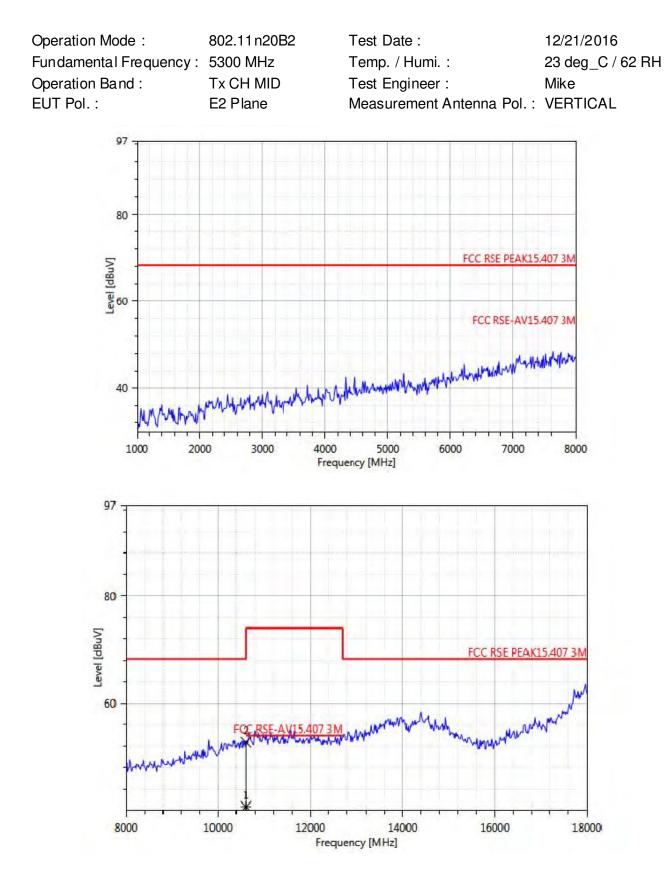


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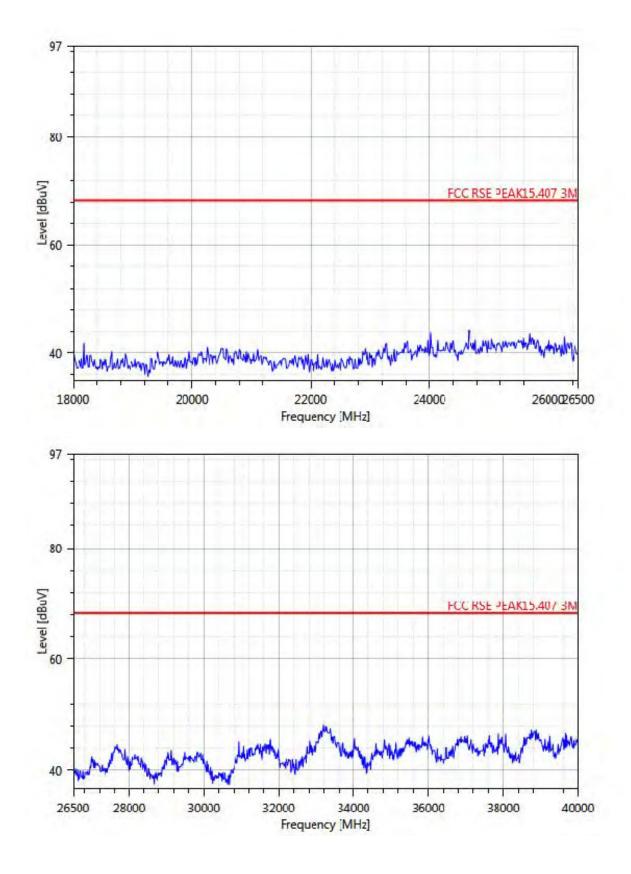




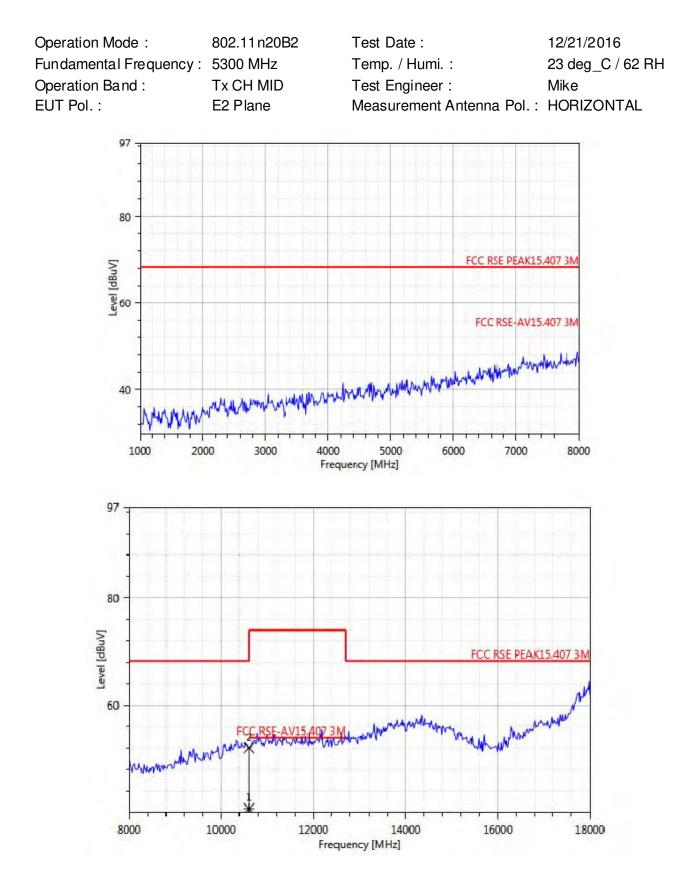


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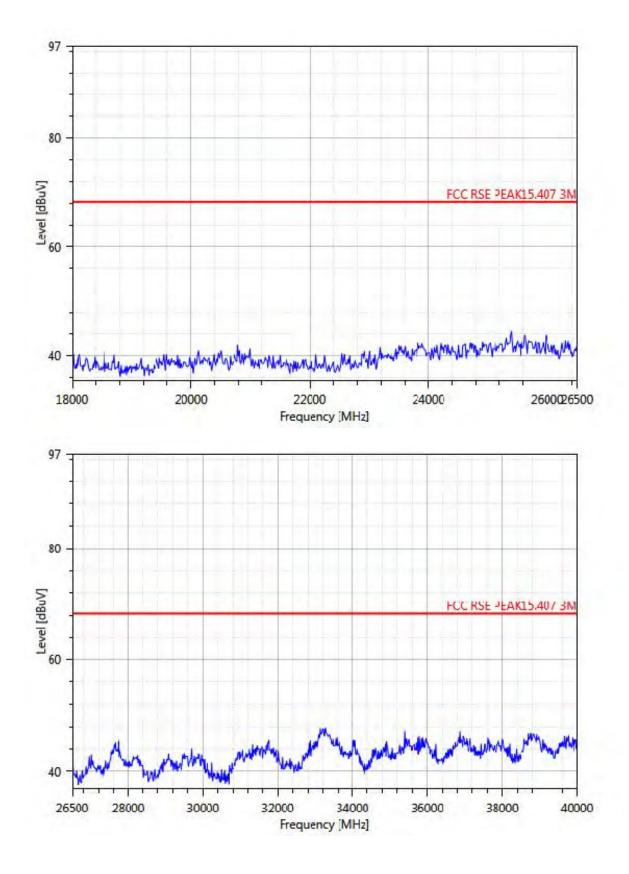


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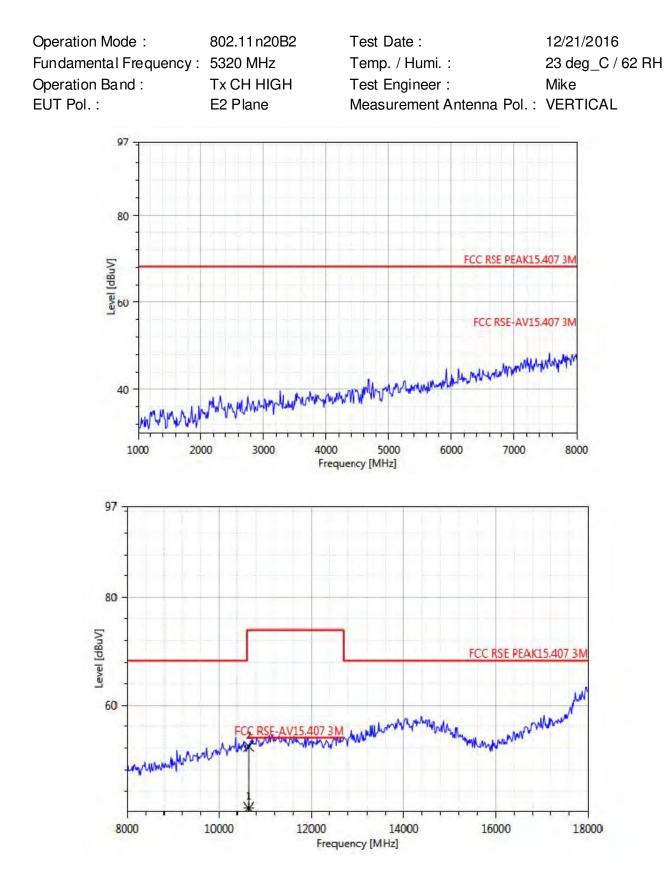
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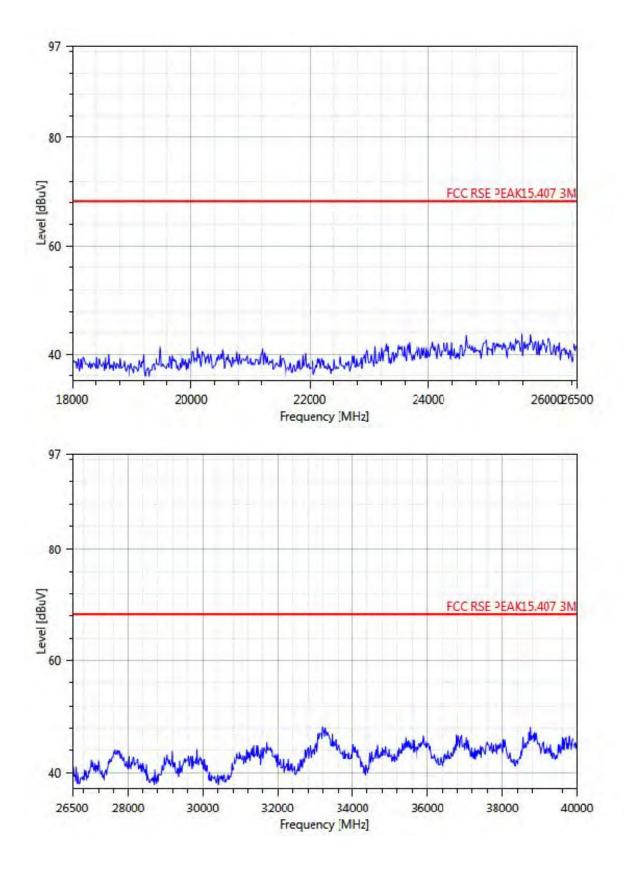




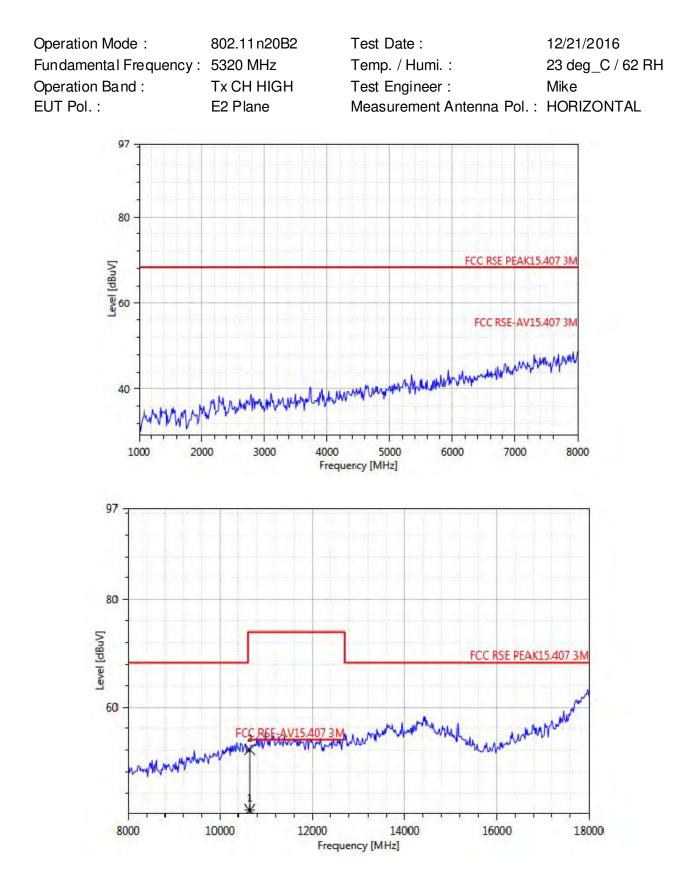


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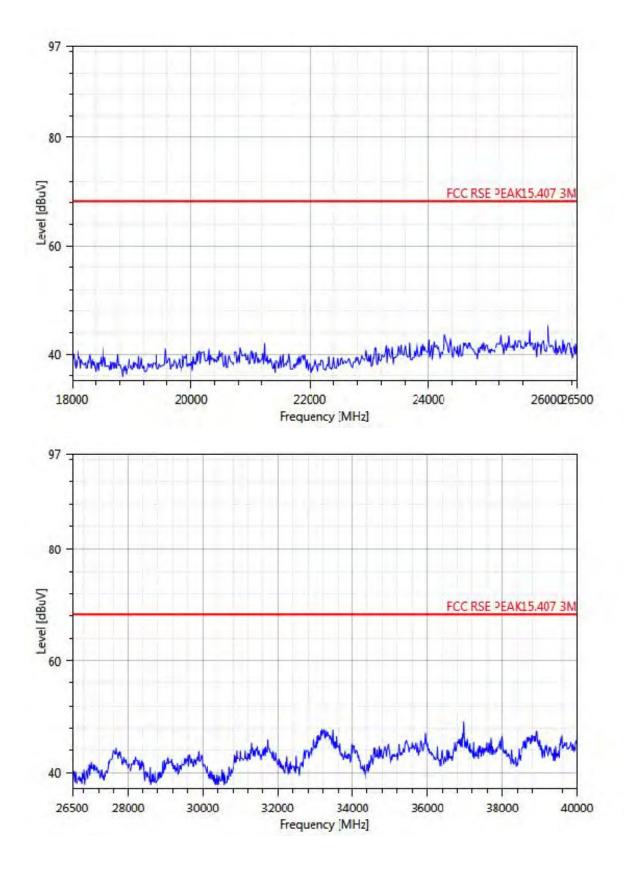




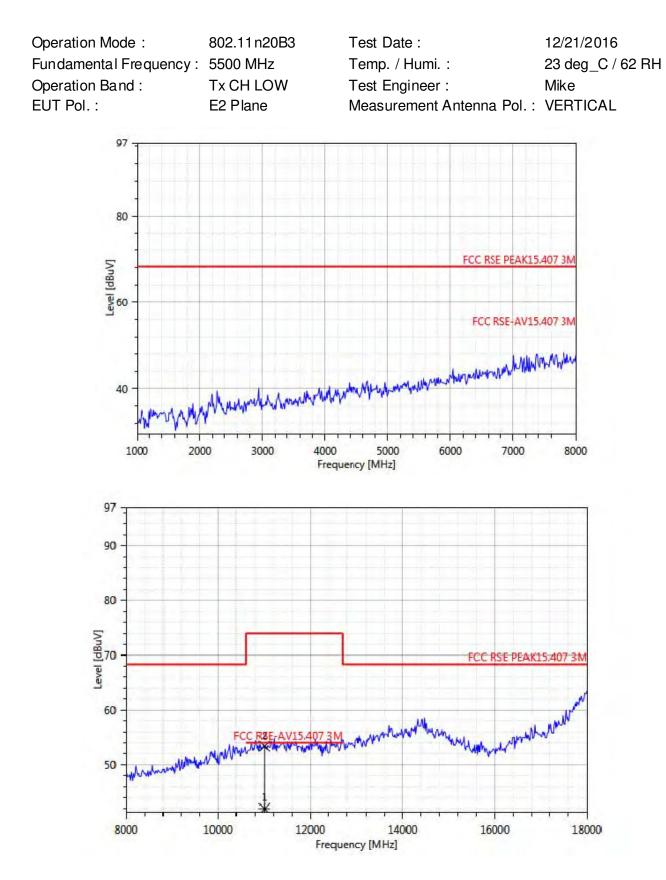


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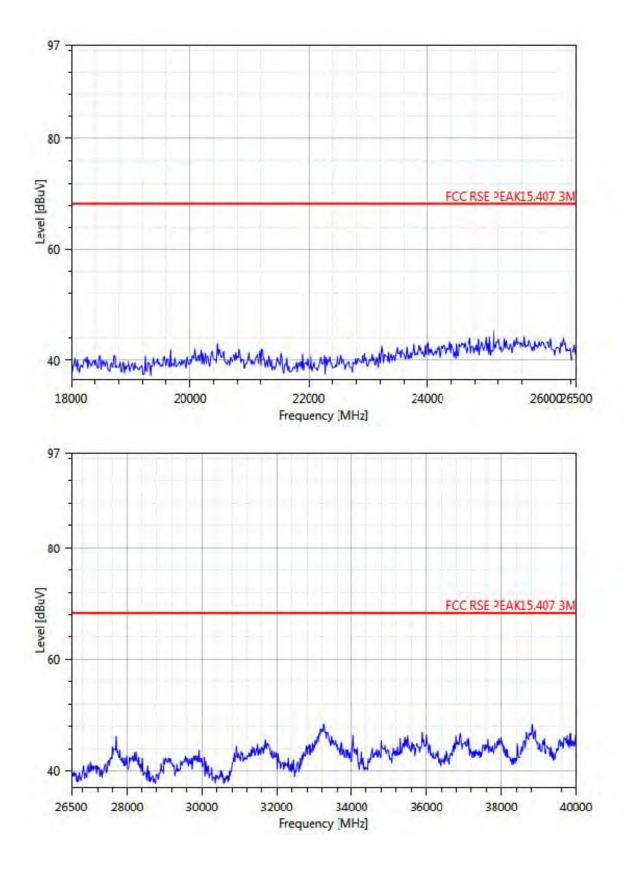




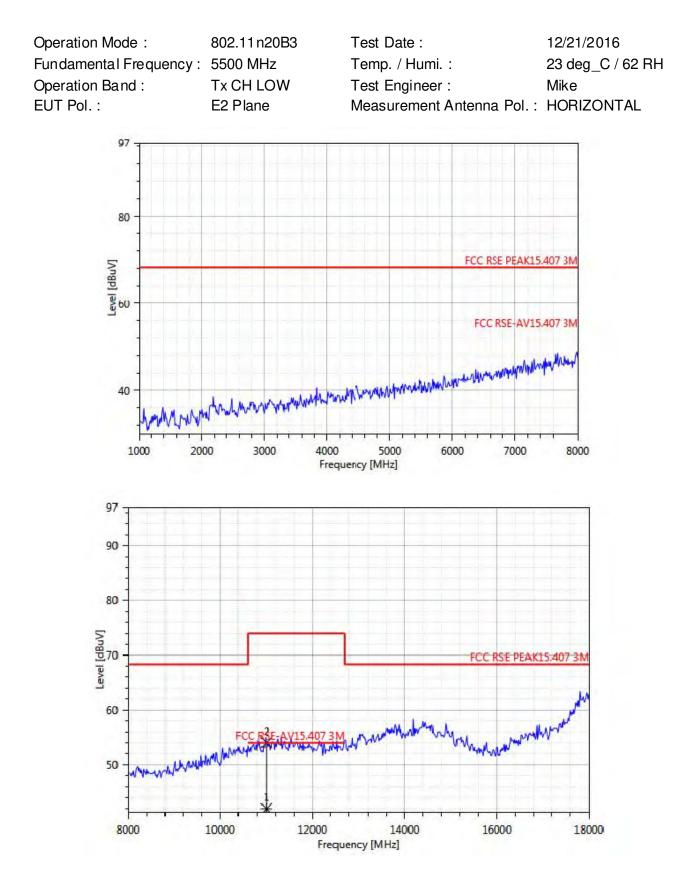


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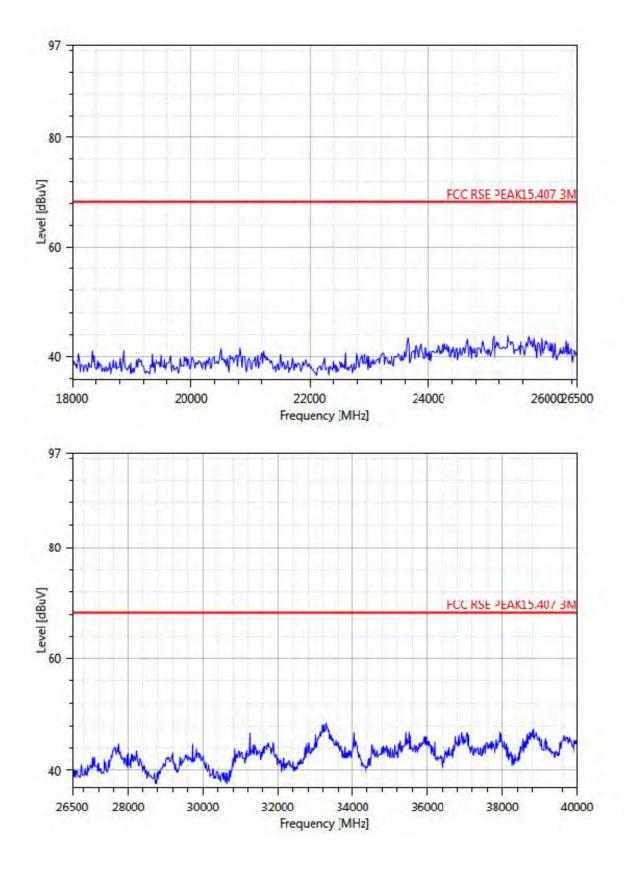


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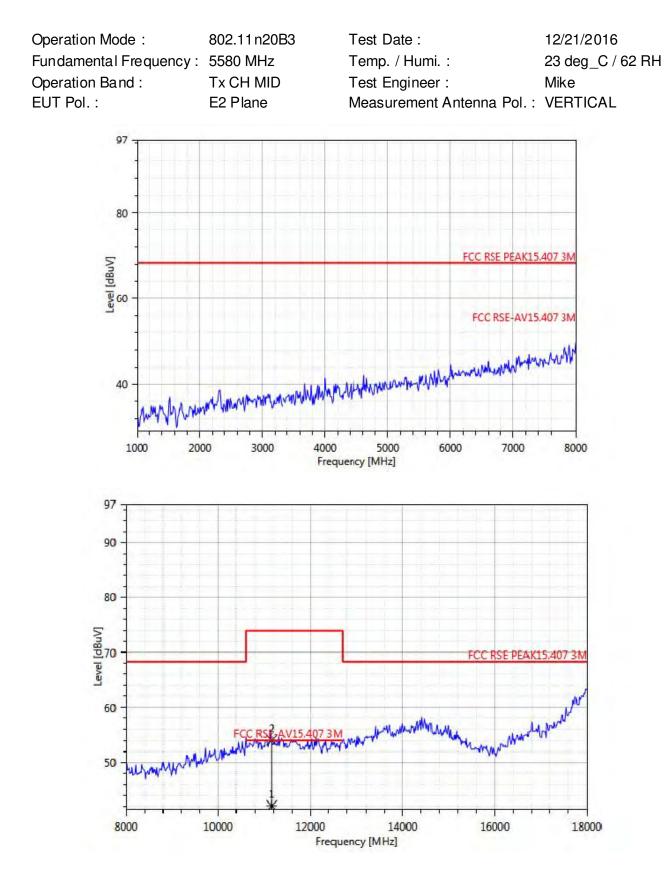
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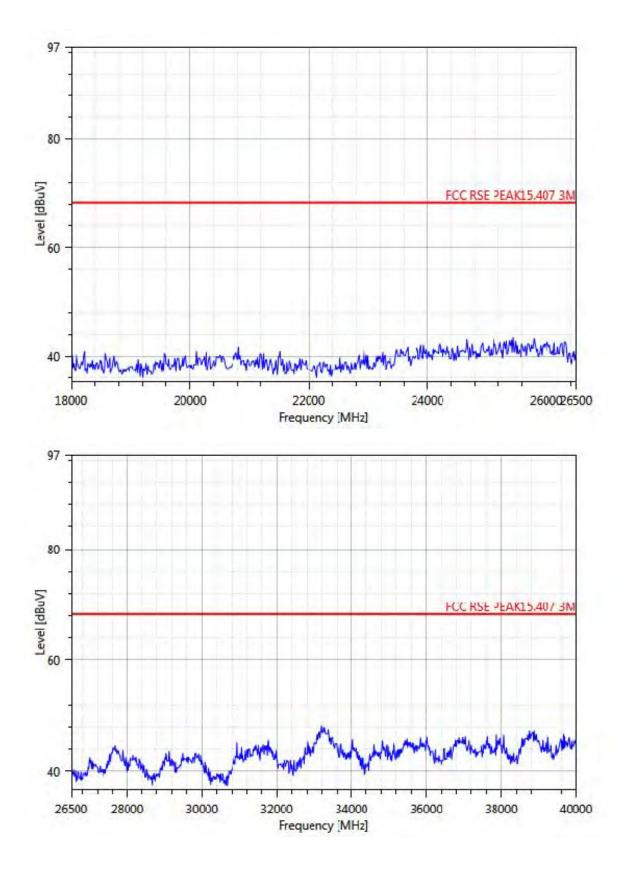




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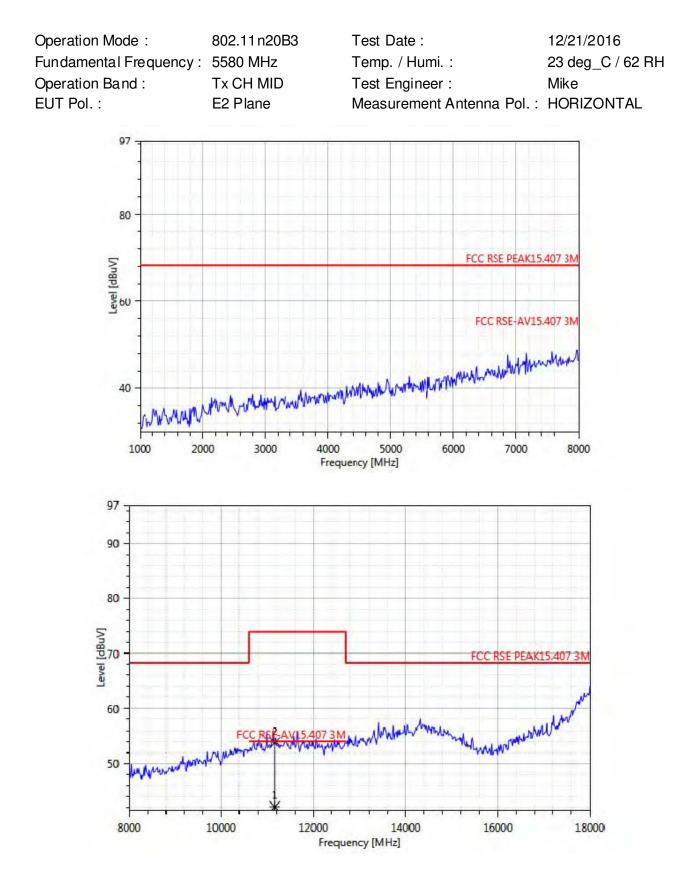
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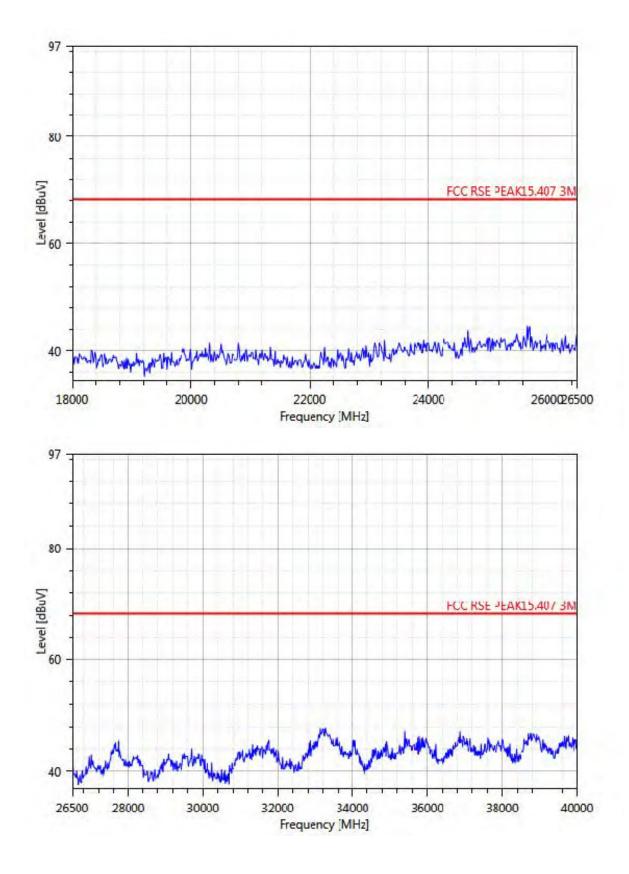




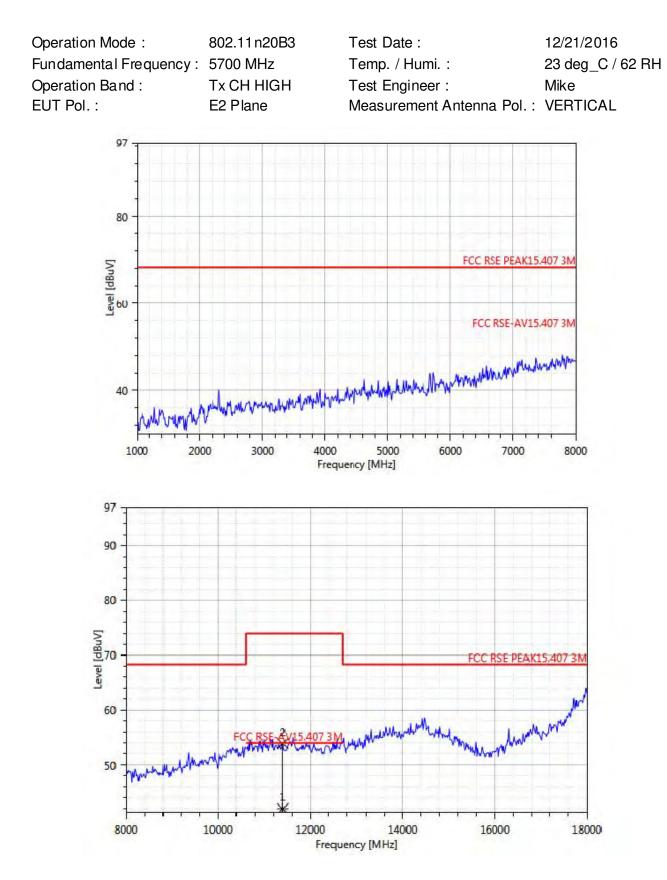
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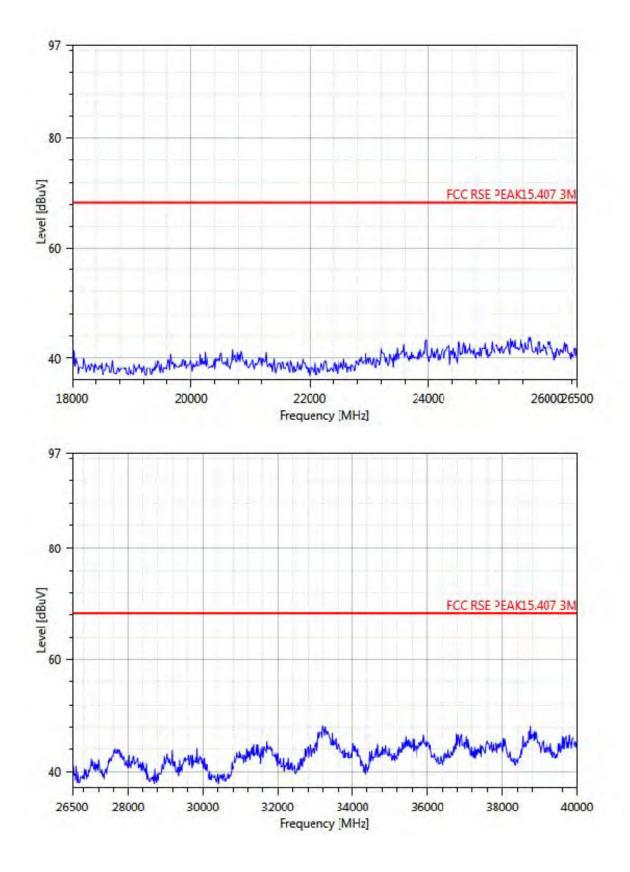




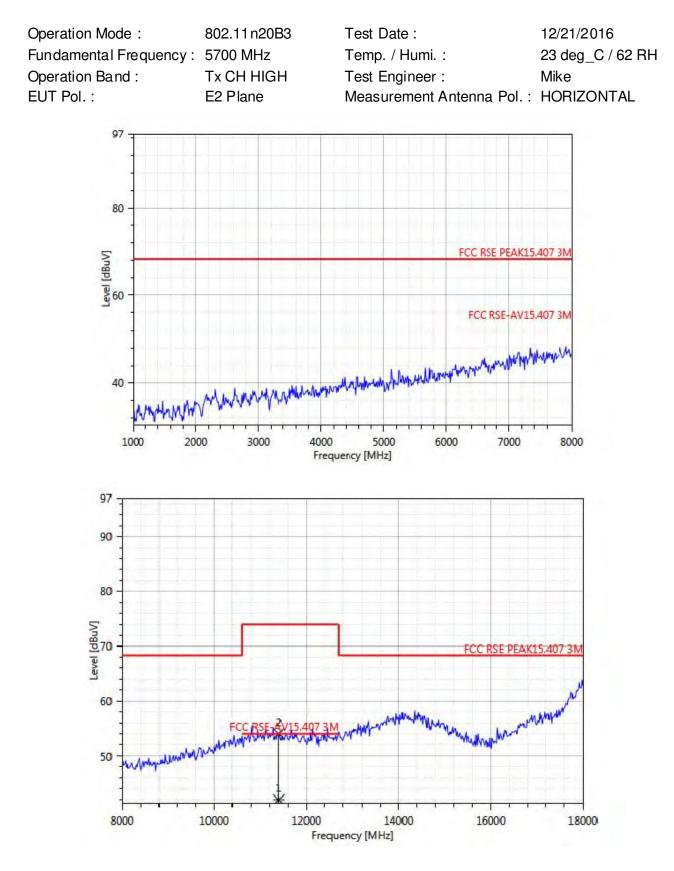


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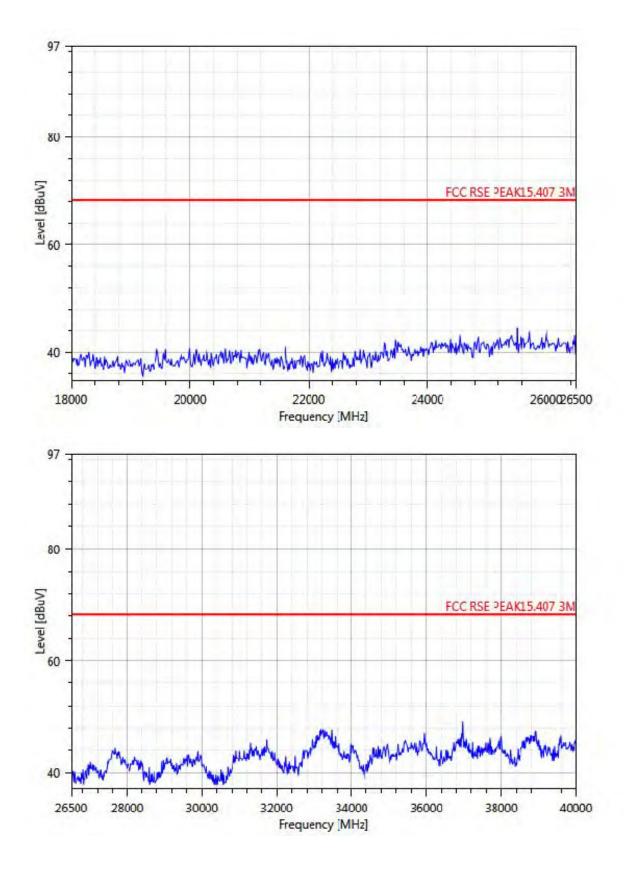






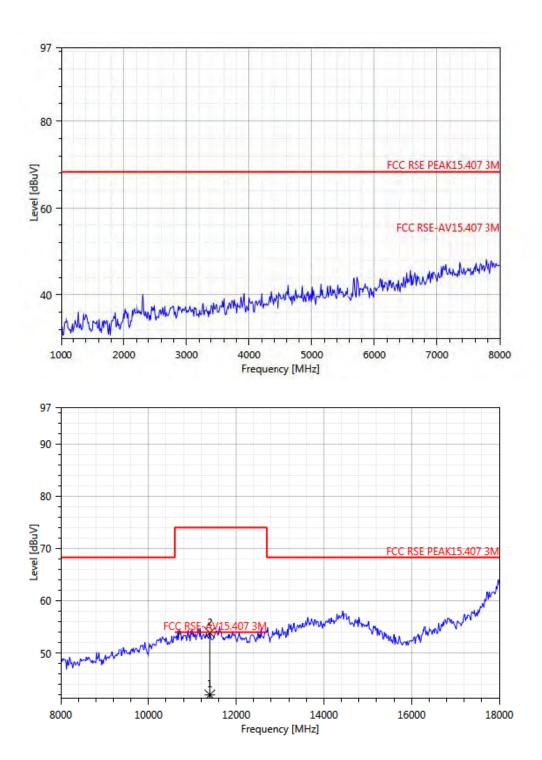








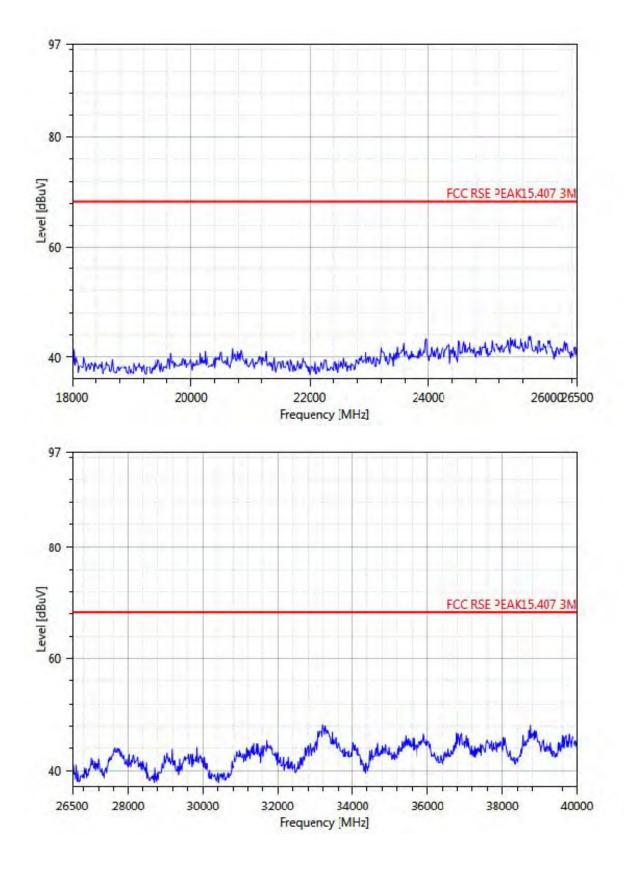
**Operation Mode :** 802.11ac20B3 Test Date : 12/21/2016 Fundamental Frequency: 5720 MHz Temp. / Humi. : 23 deg C / 62 RH **Operation Band :** Tx CH High Test Engineer : Mike EUT Pol. : E2 Plane Measurement Antenna Pol. : VERTICAL



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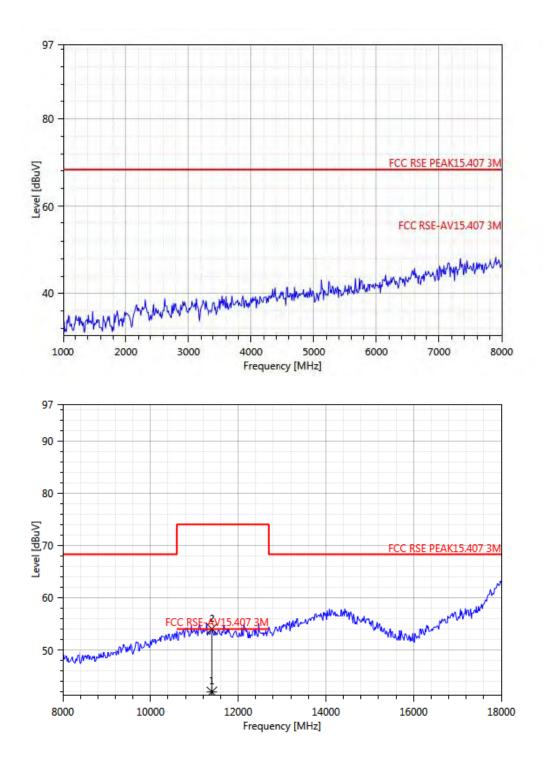
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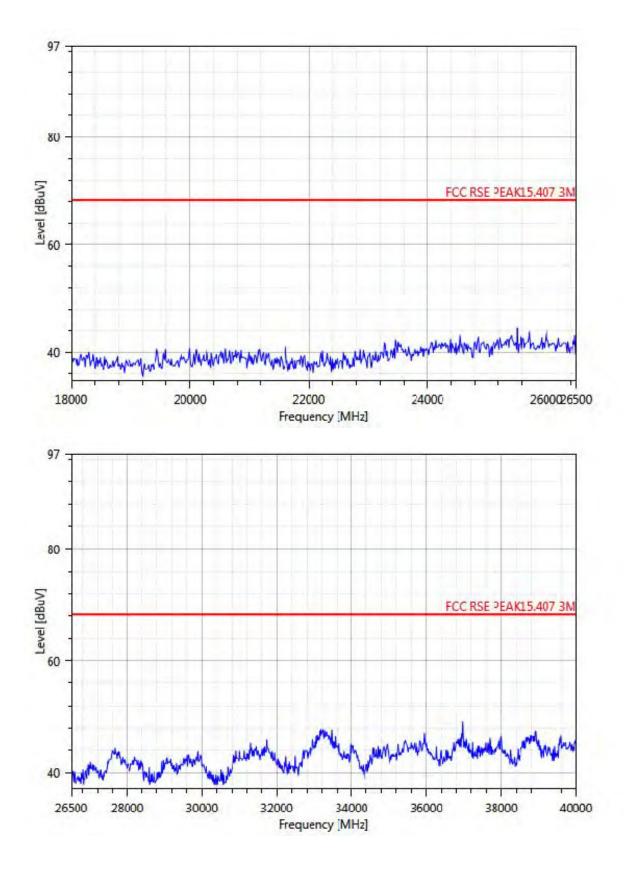
**Operation Mode :** 802.11ac20B3 Test Date : 12/21/2016 Fundamental Frequency: 5720 MHz Temp. / Humi. : 23 deg C / 62 RH **Operation Band :** Tx CH High Test Engineer : Mike EUT Pol. : E2 Plane Measurement Antenna Pol. : HORIZONTAL



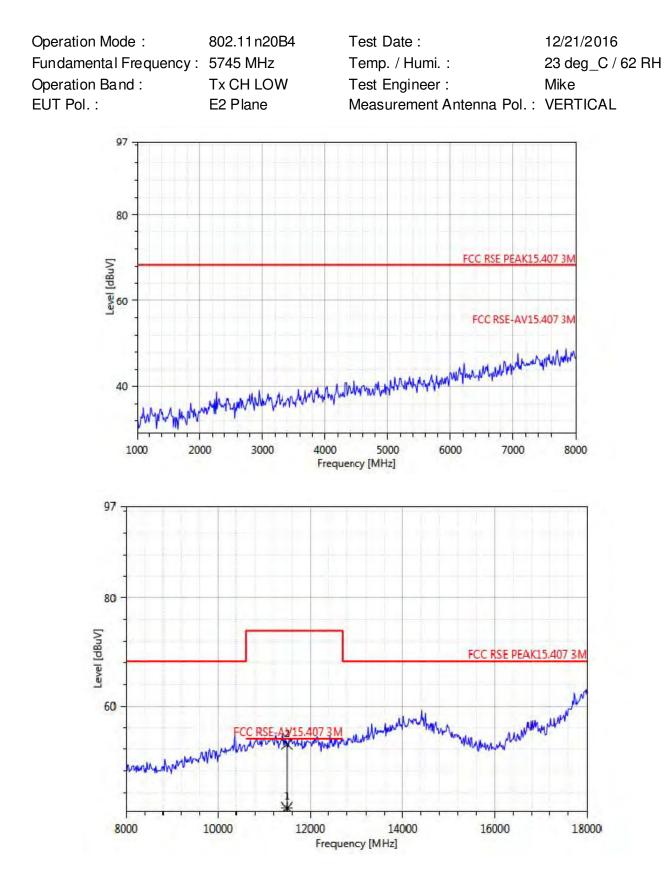
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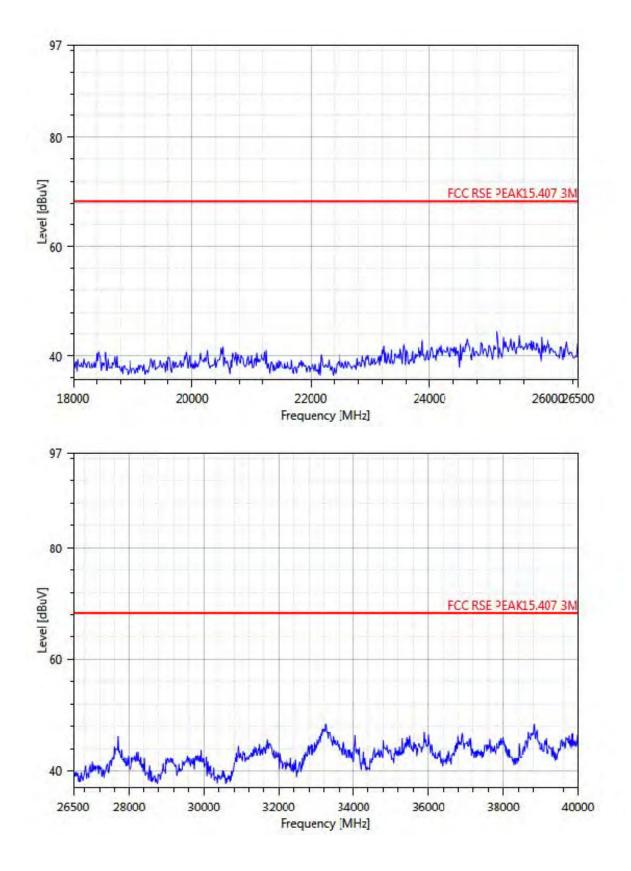




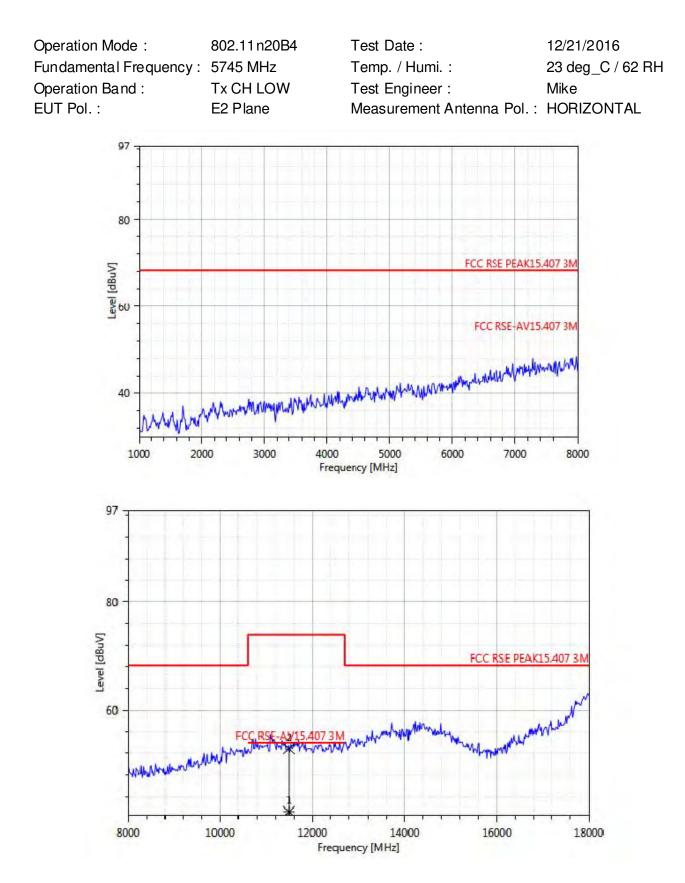






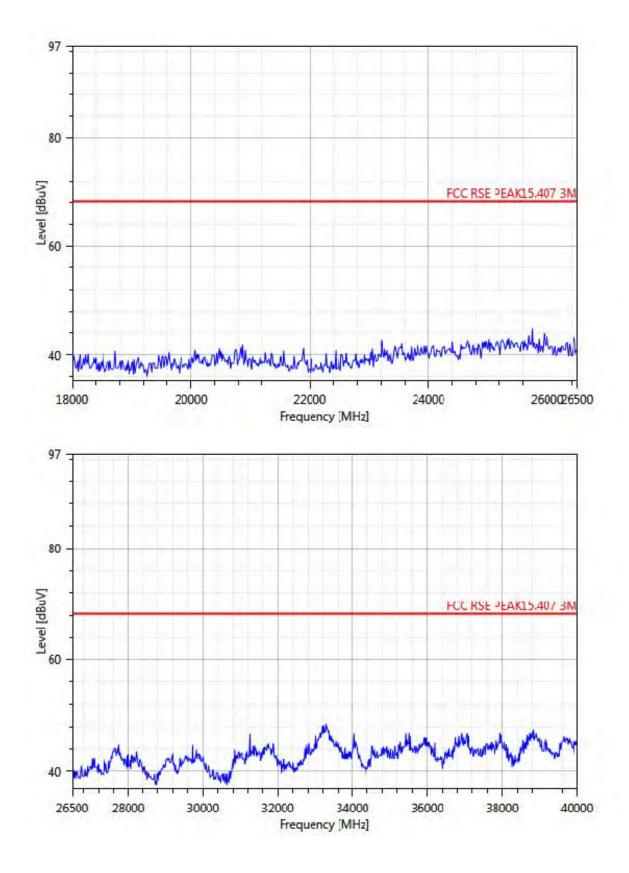




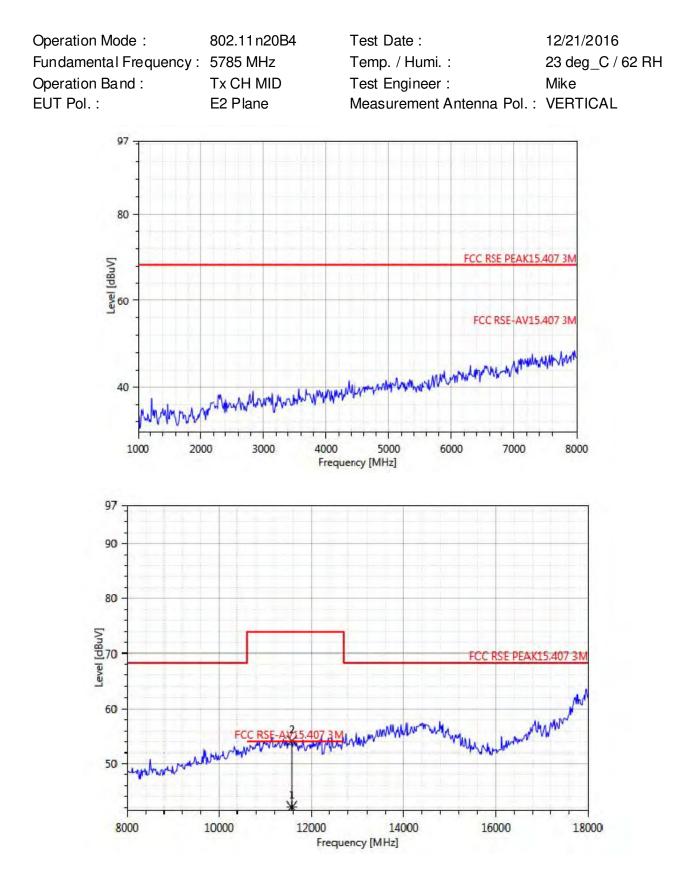


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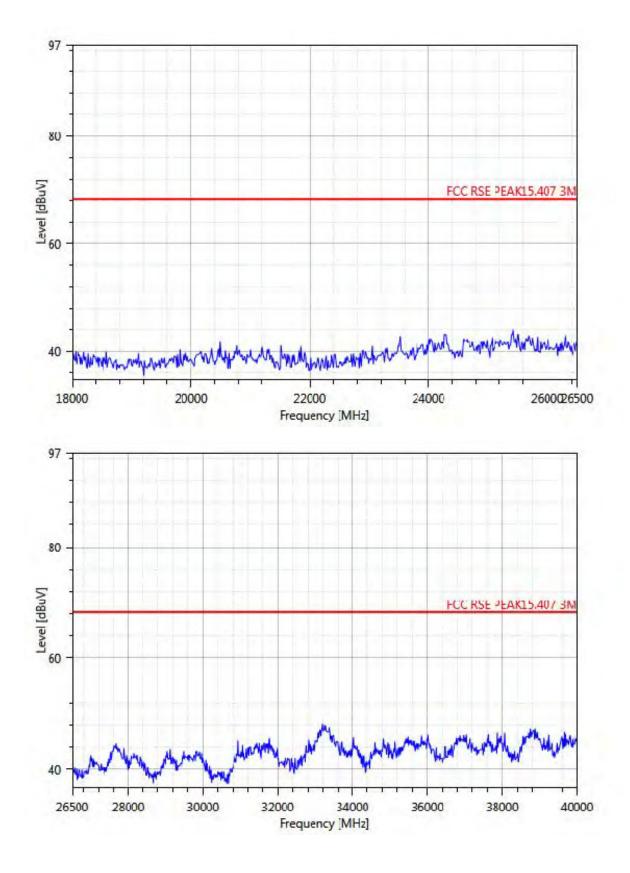




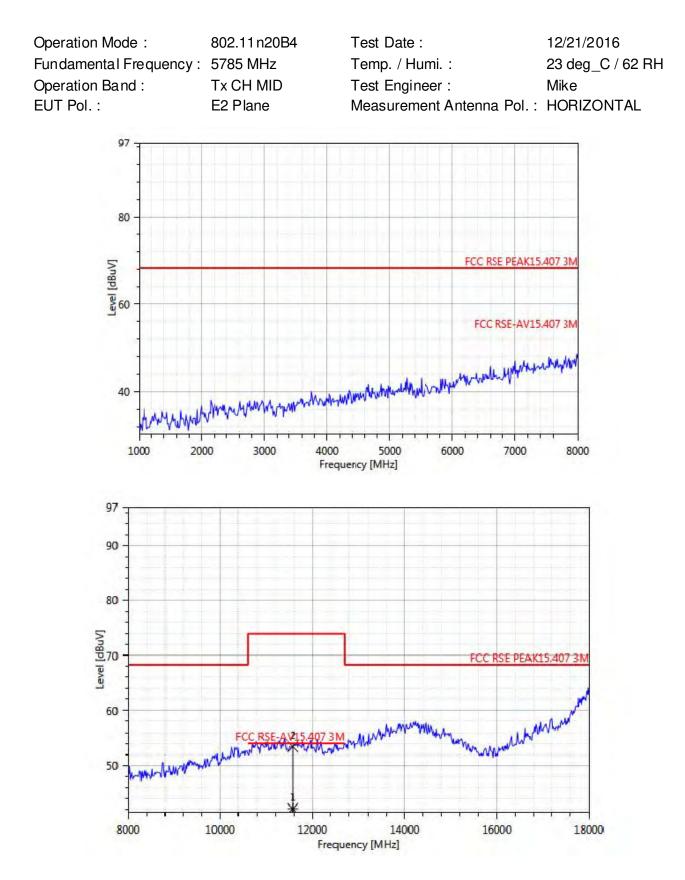


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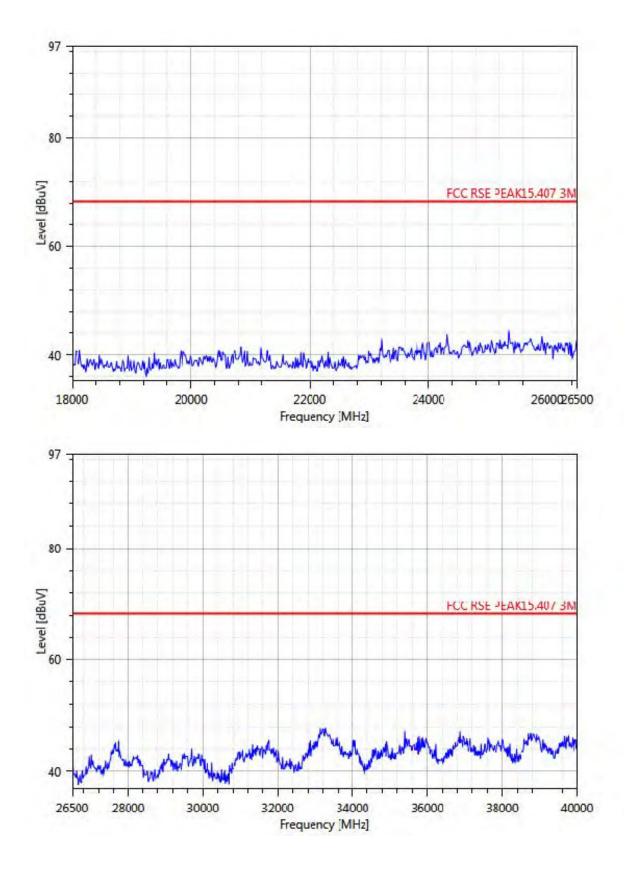




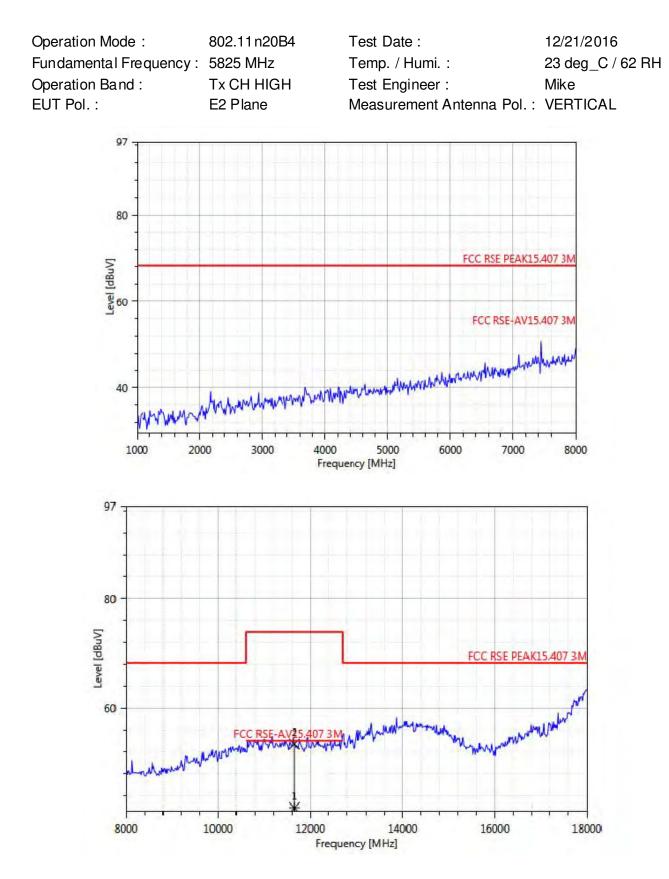


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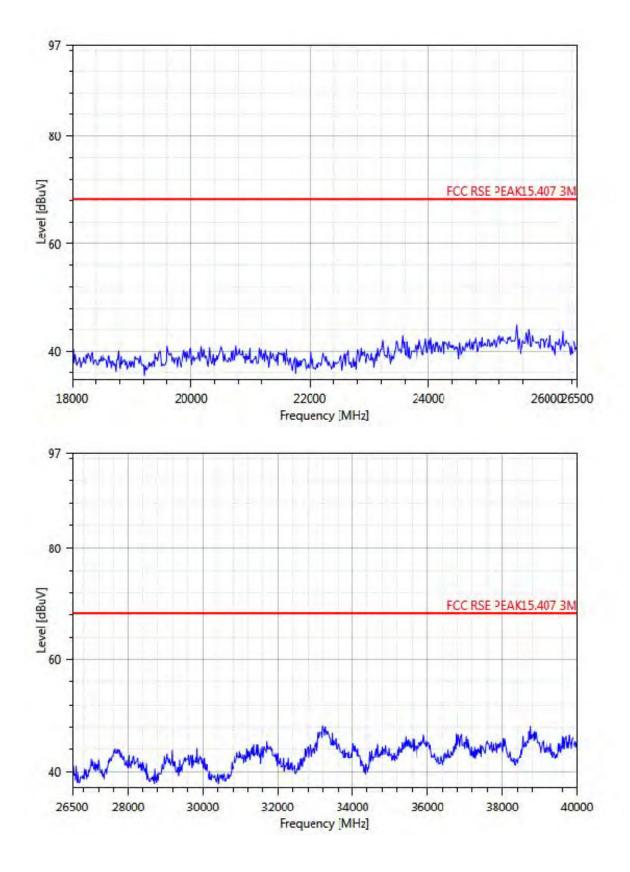




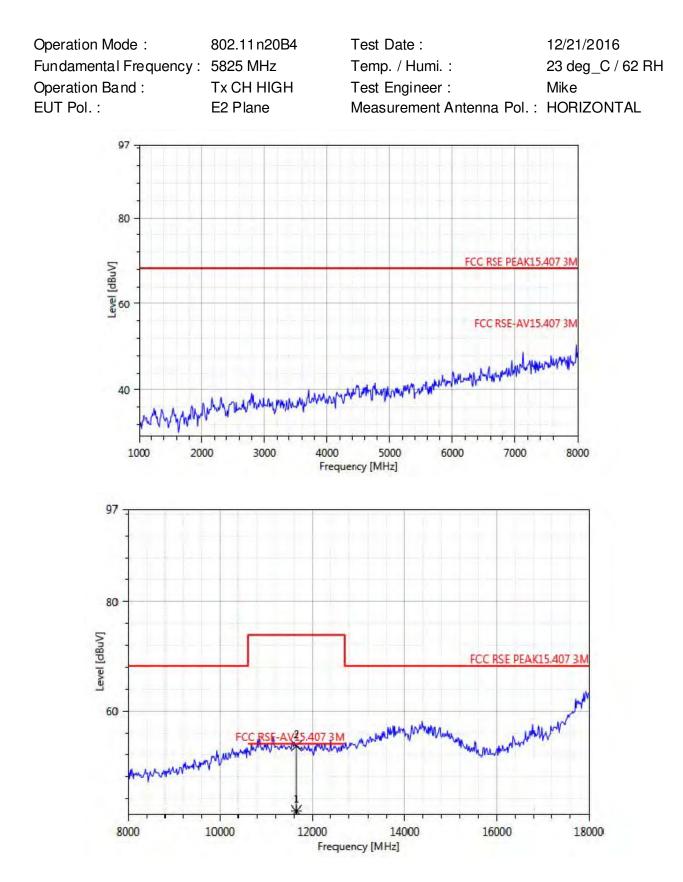


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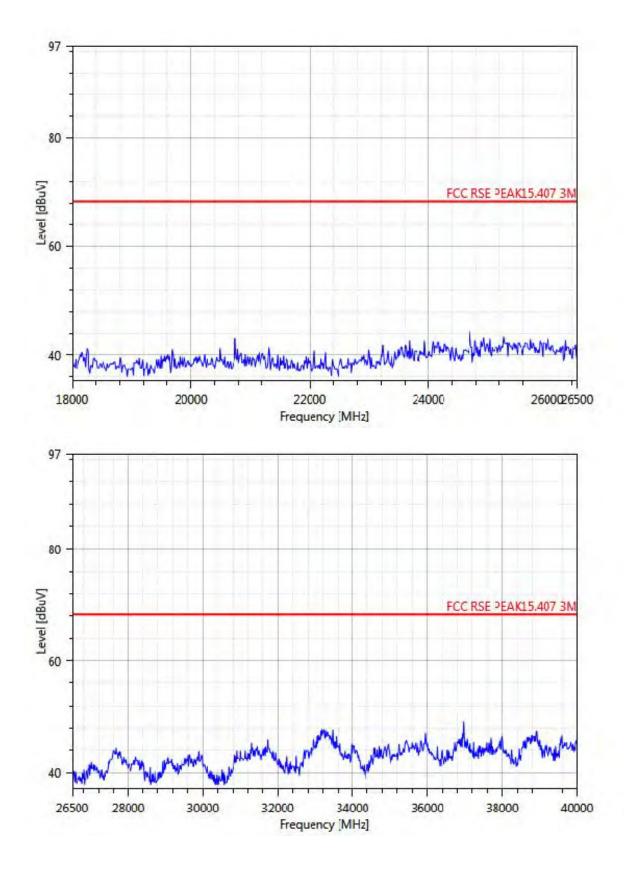




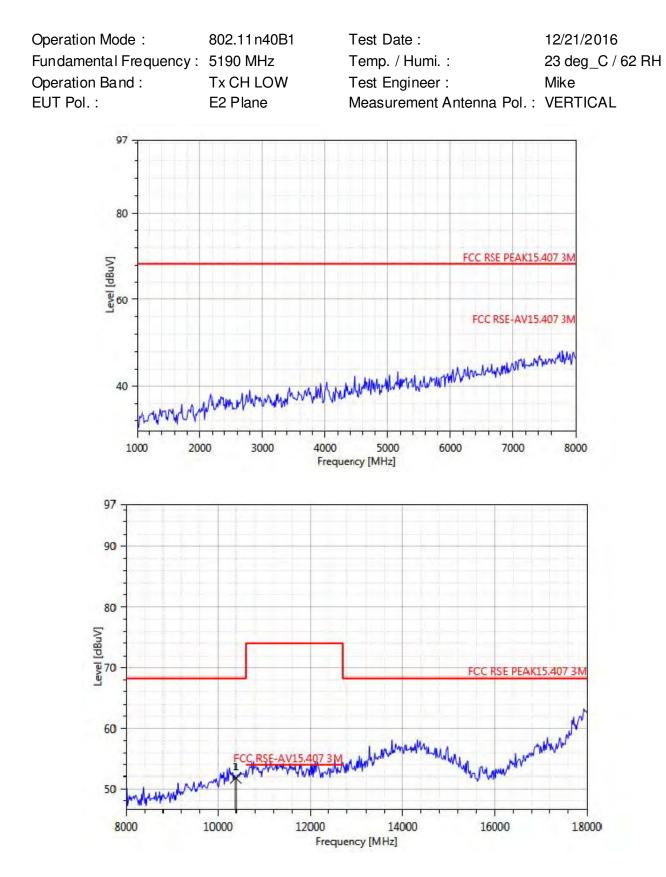






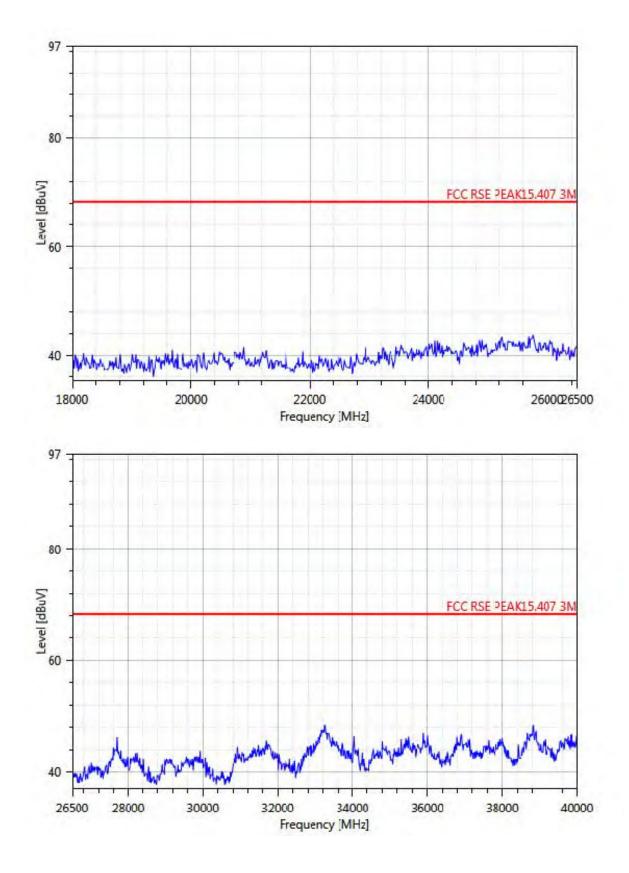




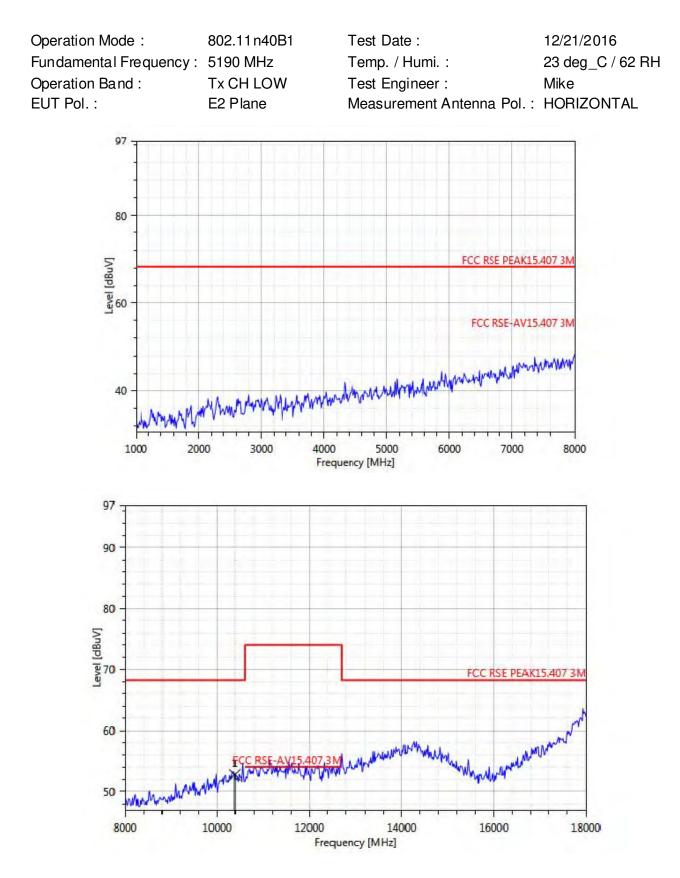


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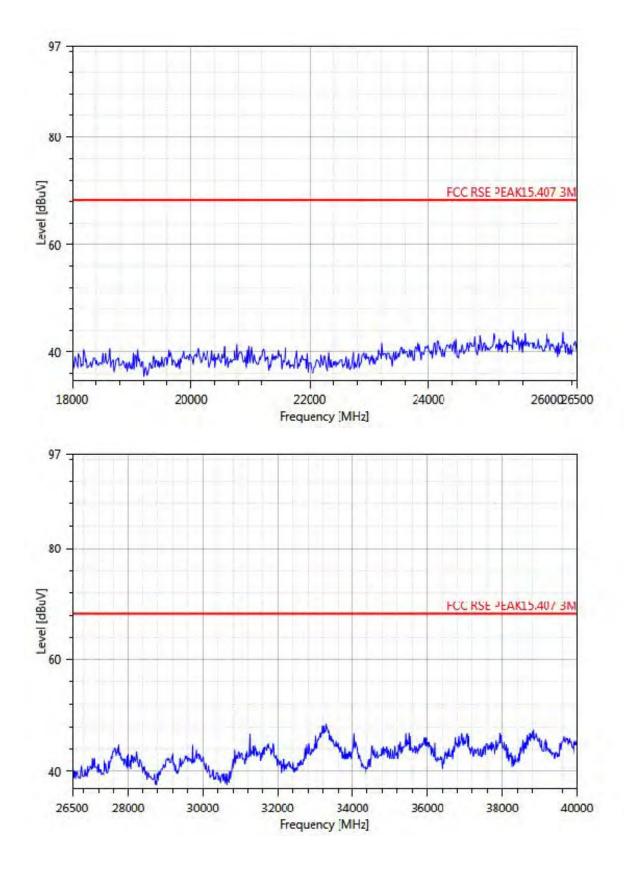




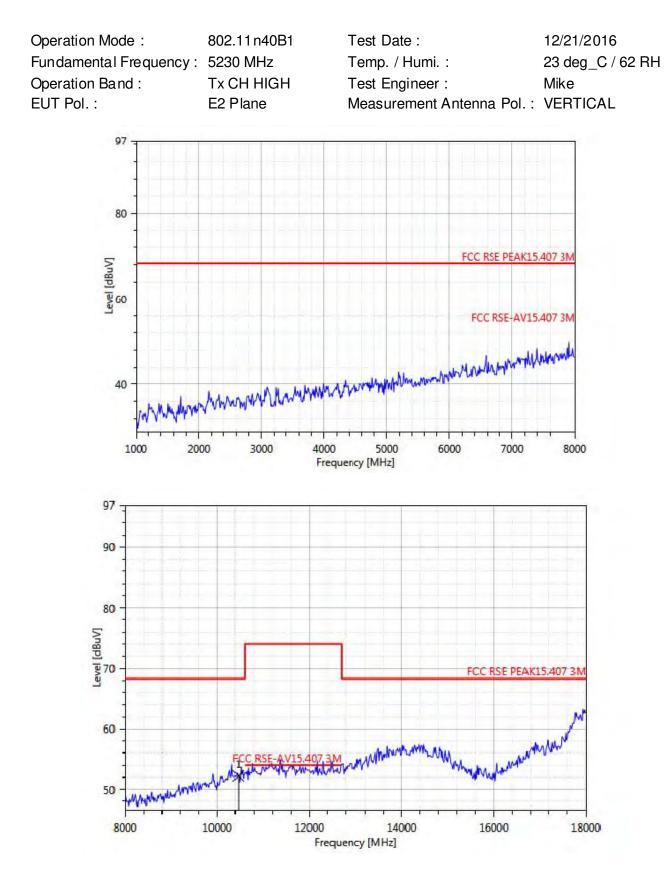






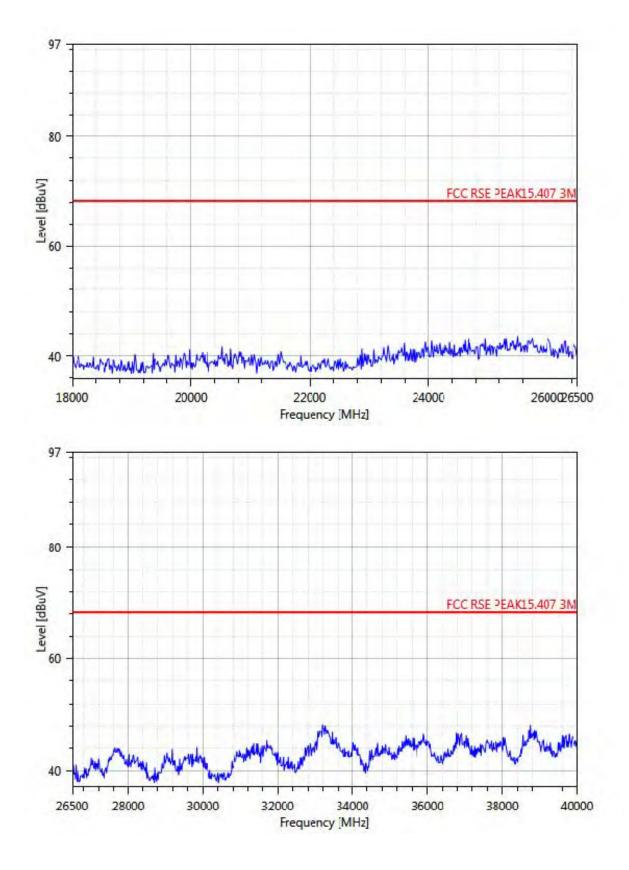




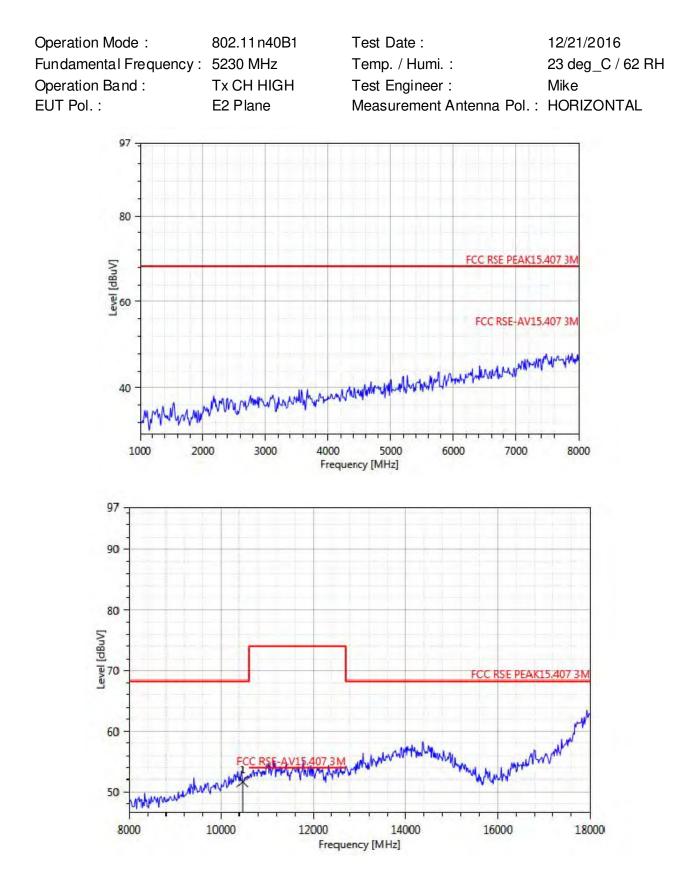


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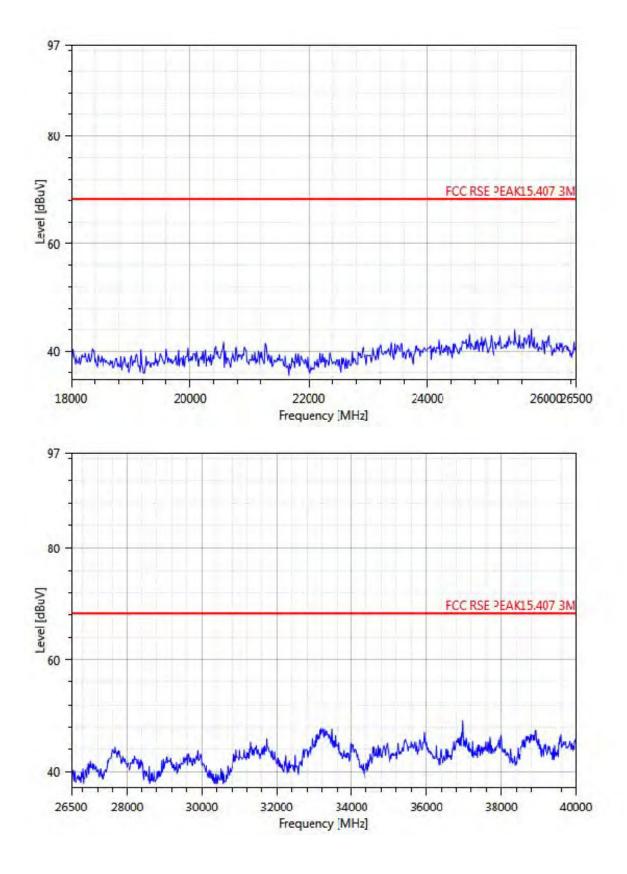




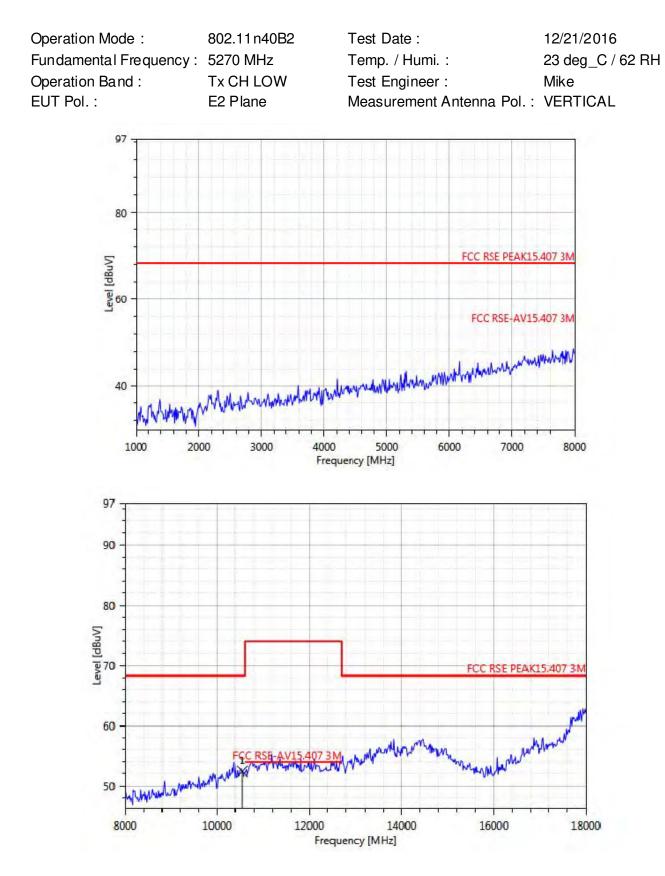


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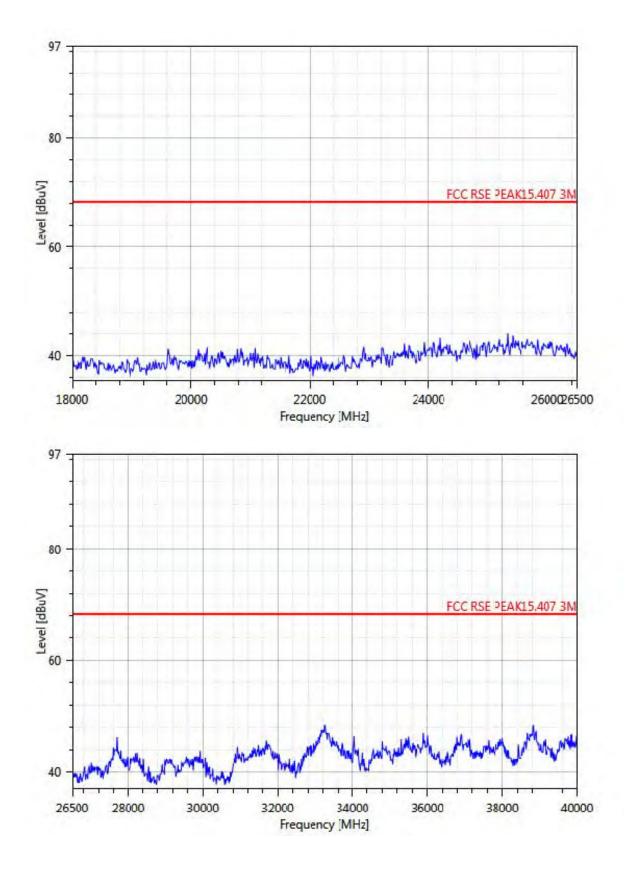






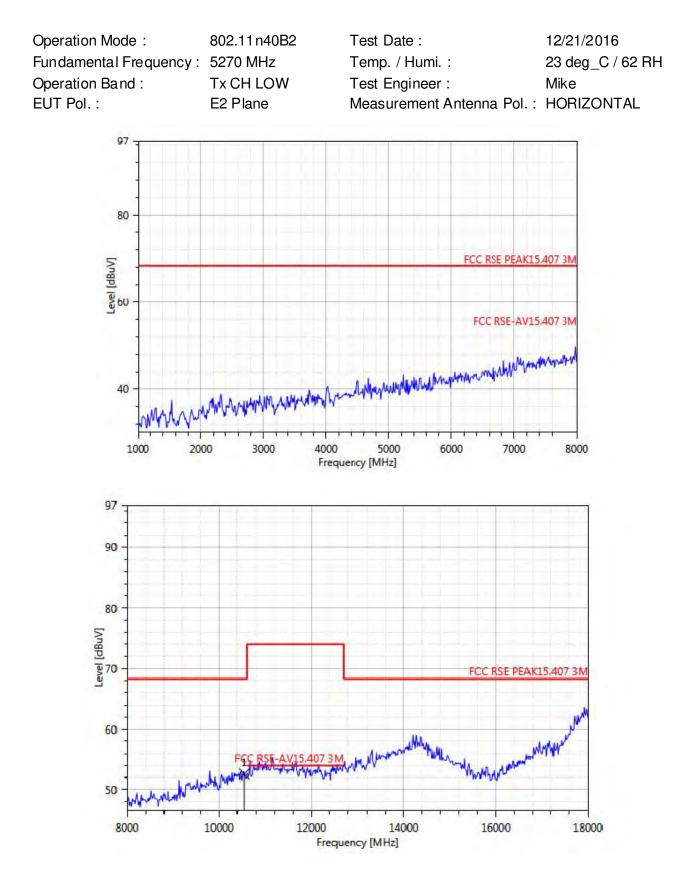
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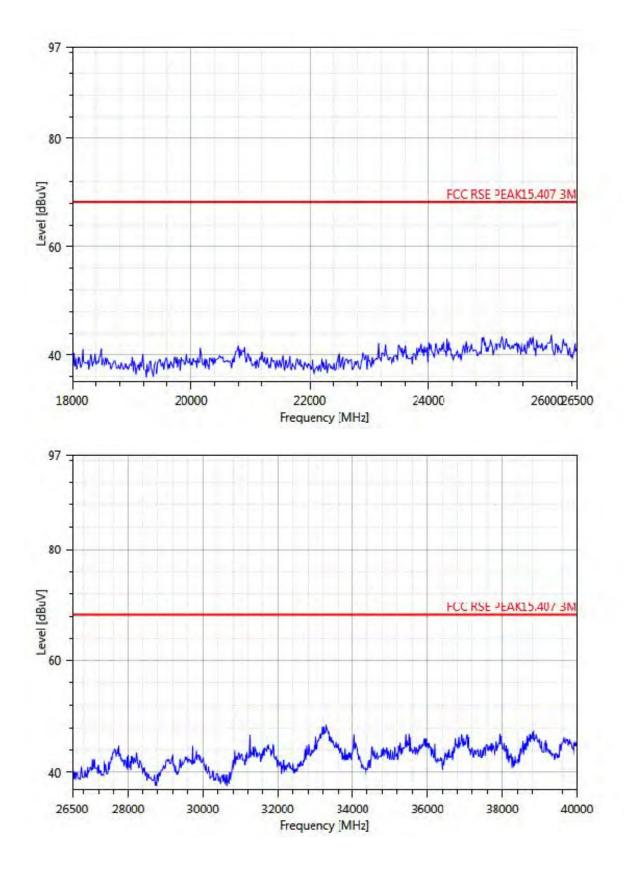
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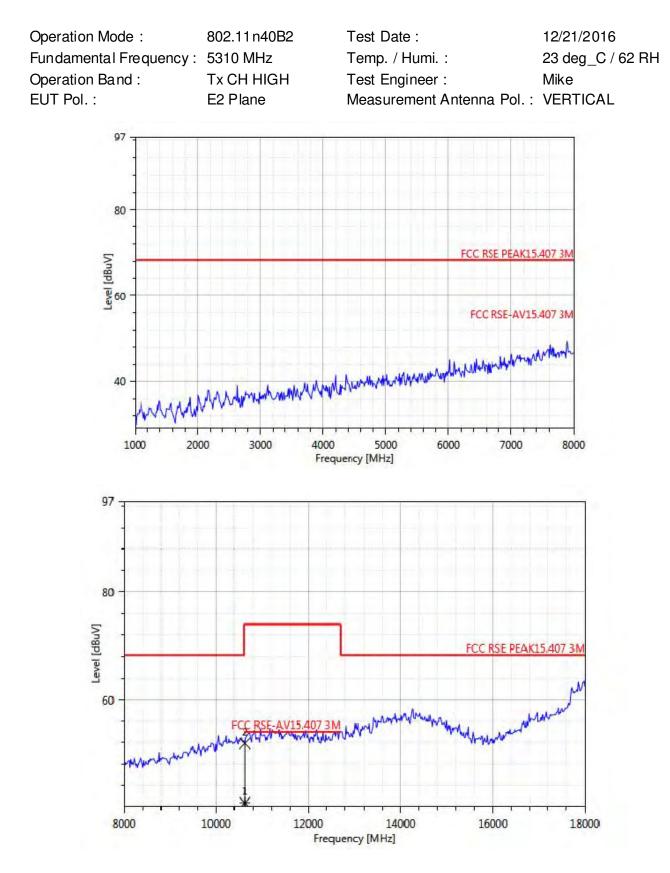


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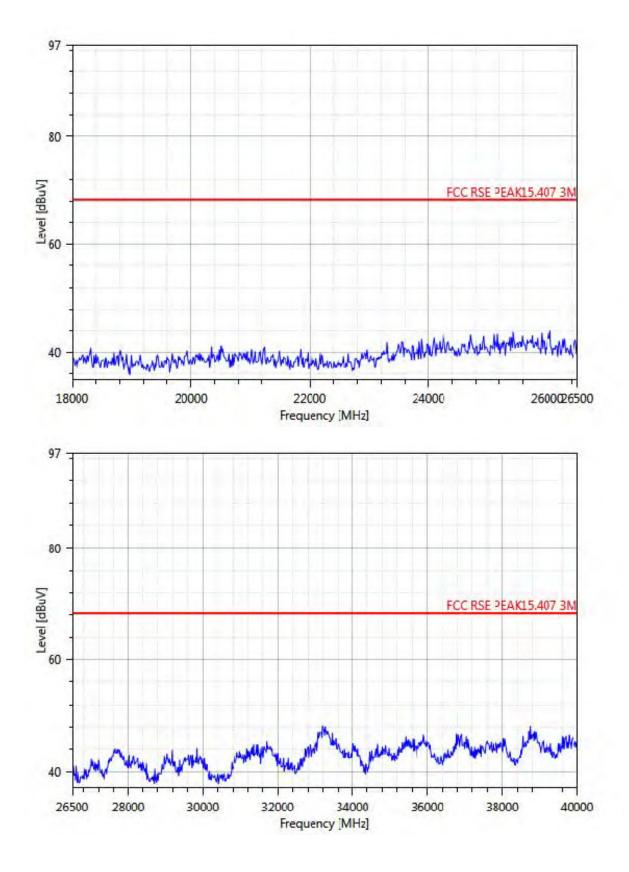




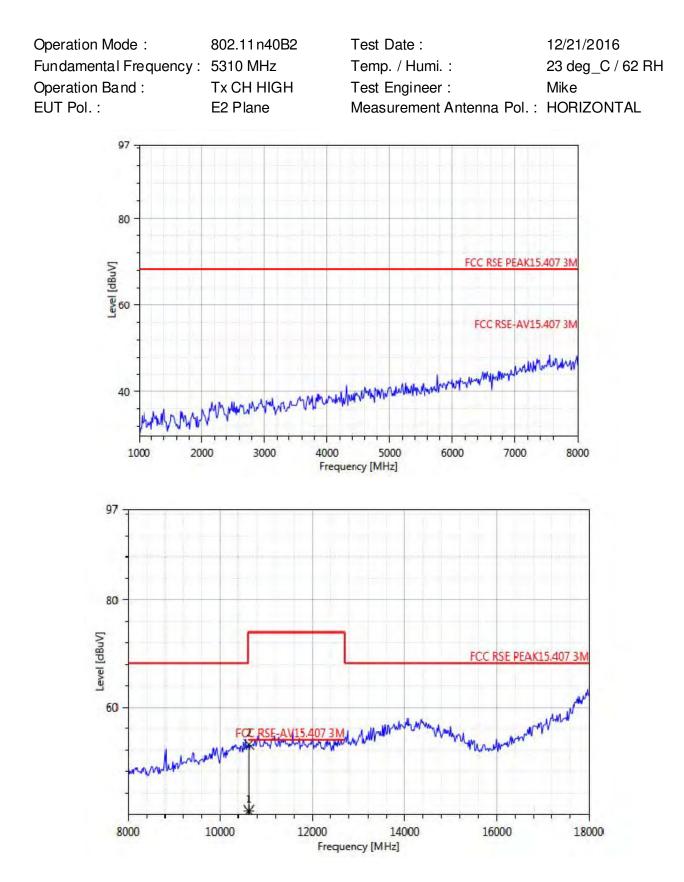


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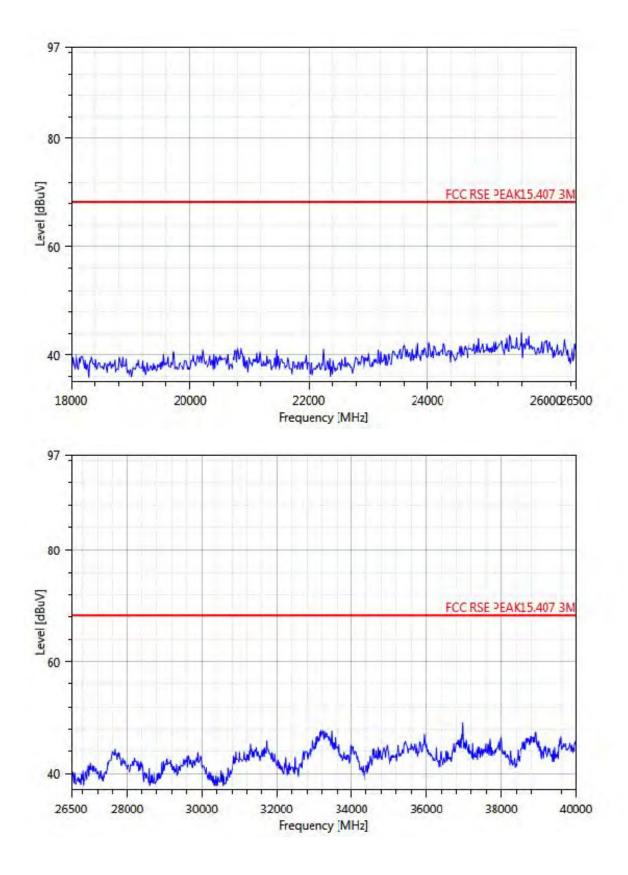




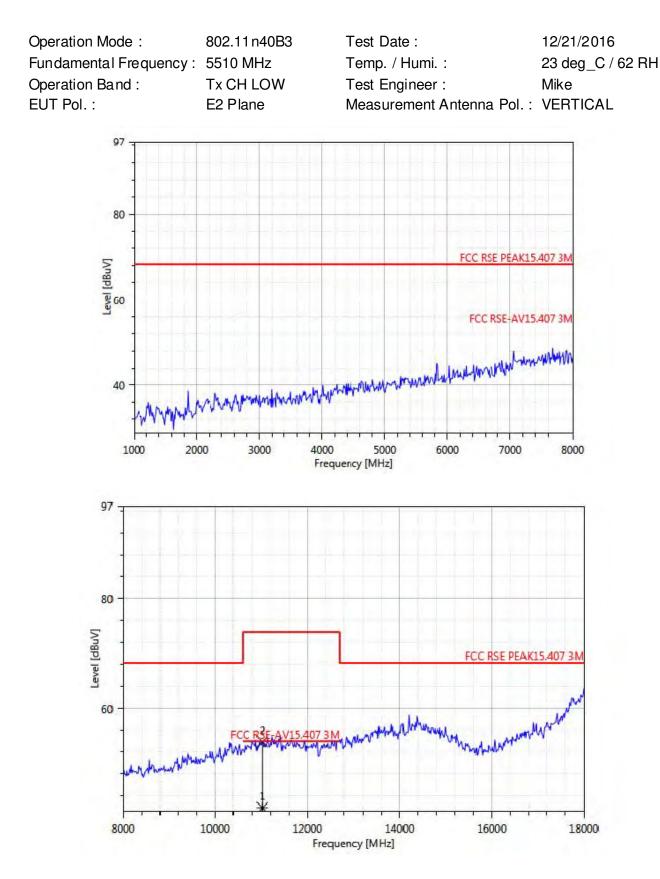


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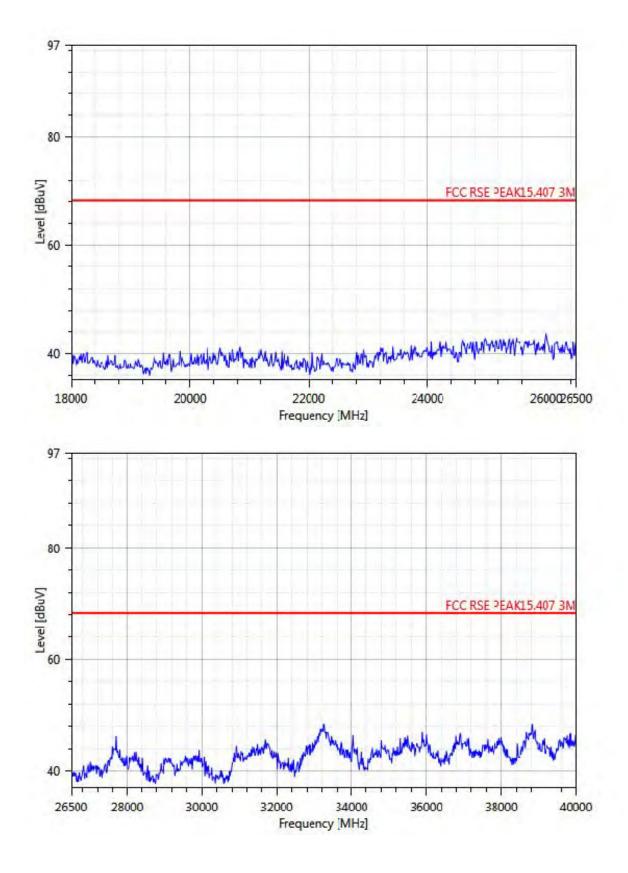




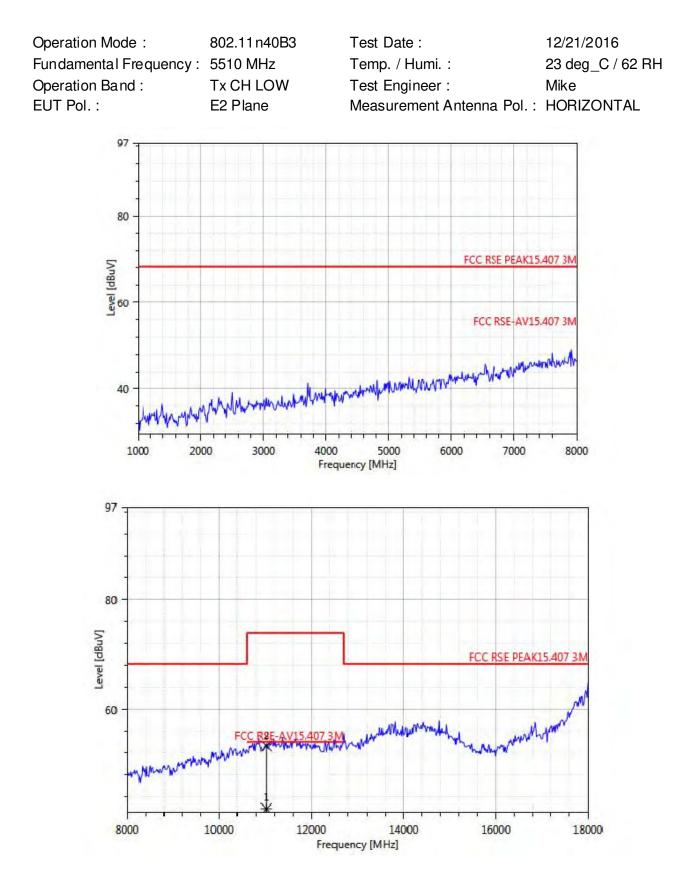


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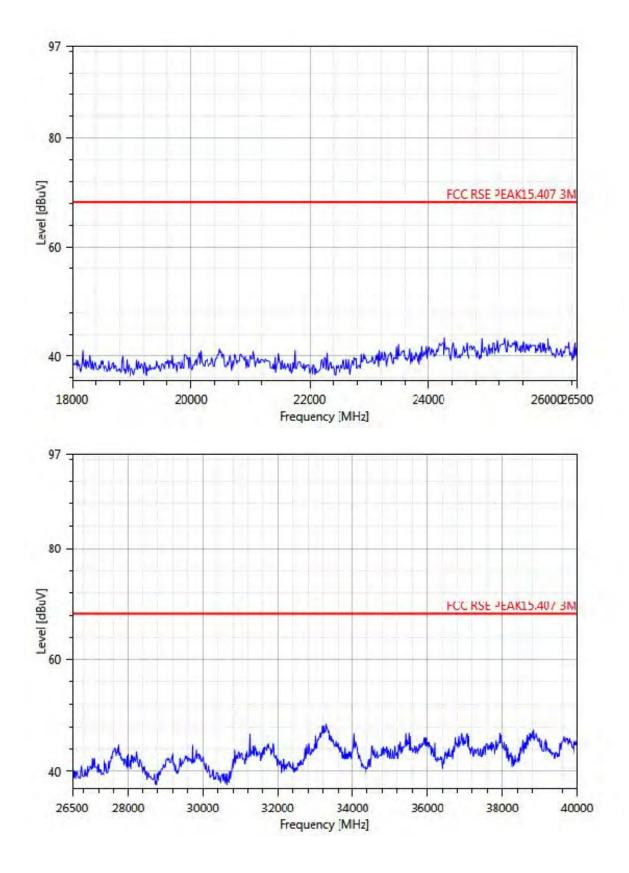




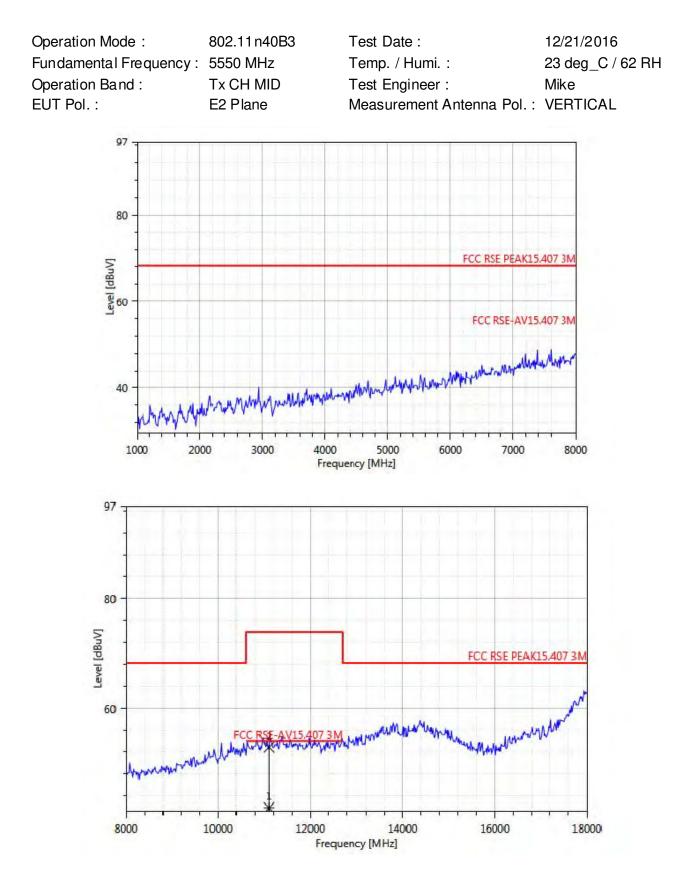


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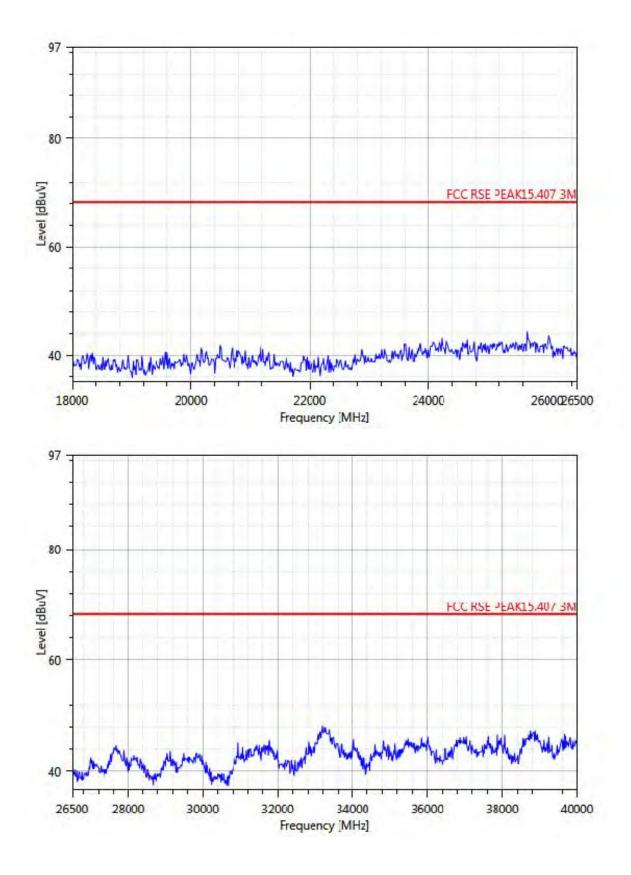




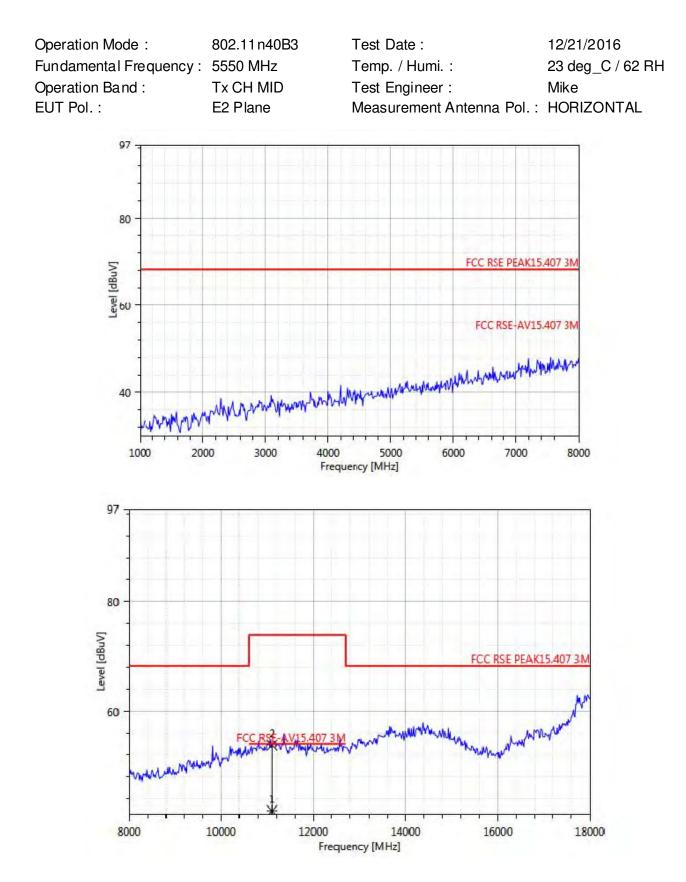


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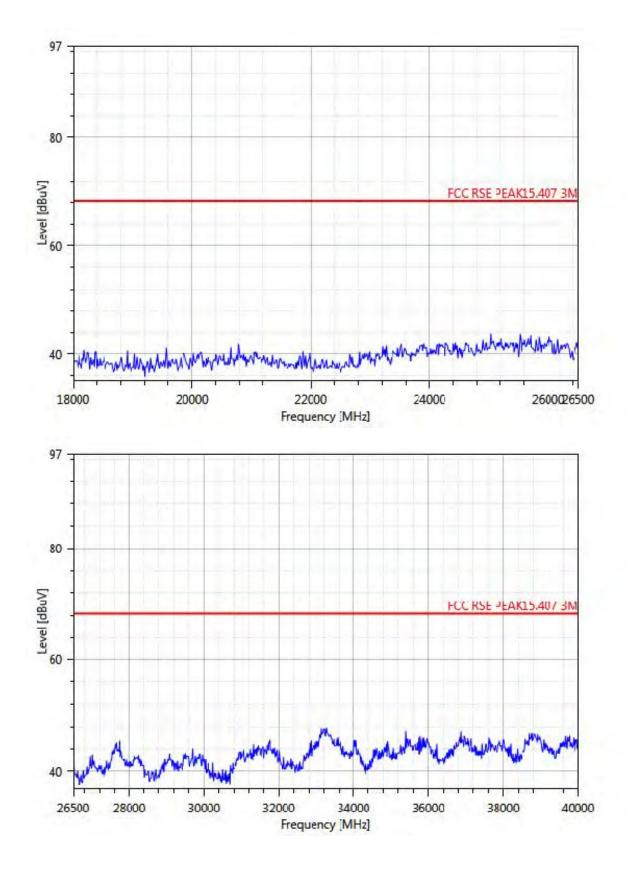




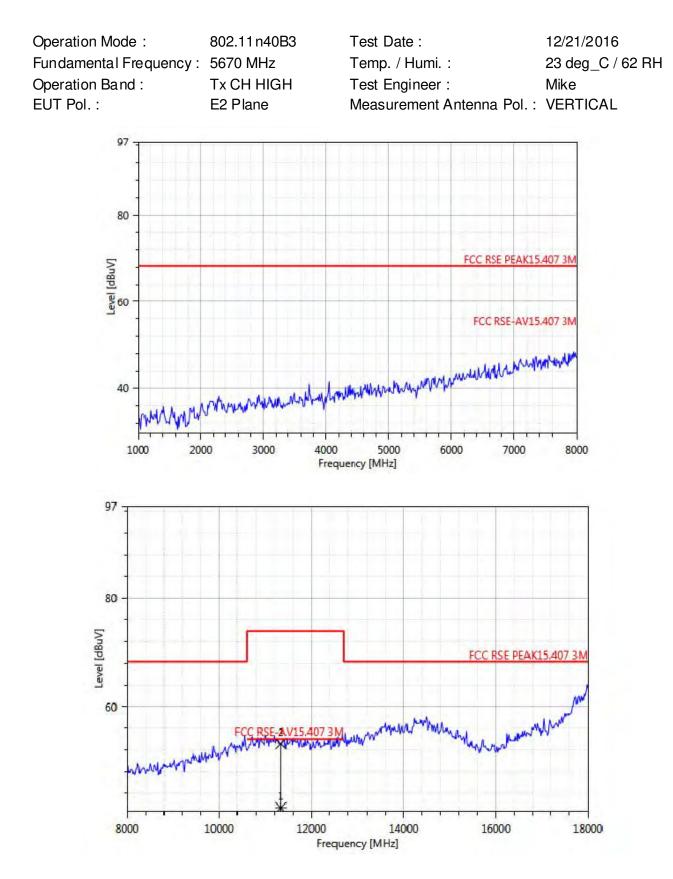


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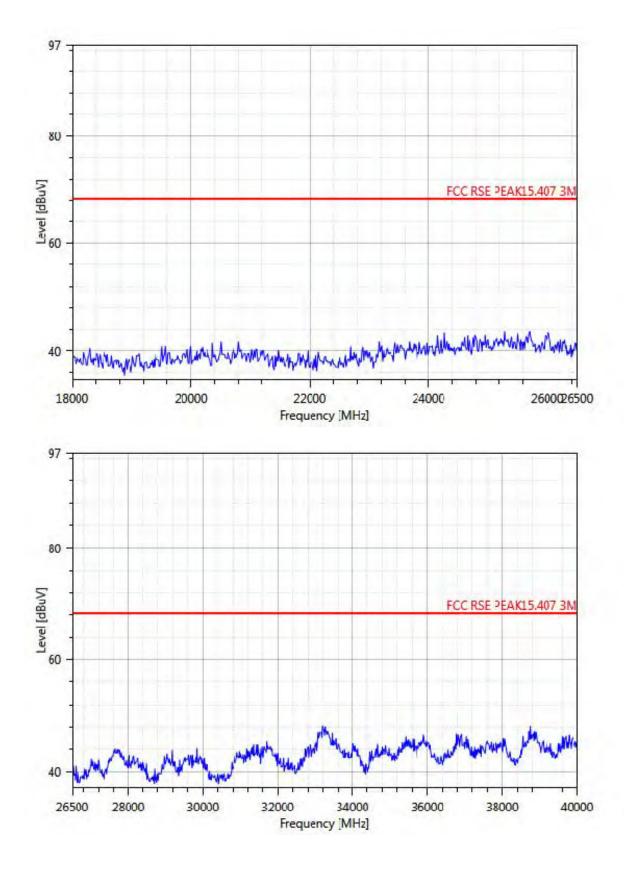




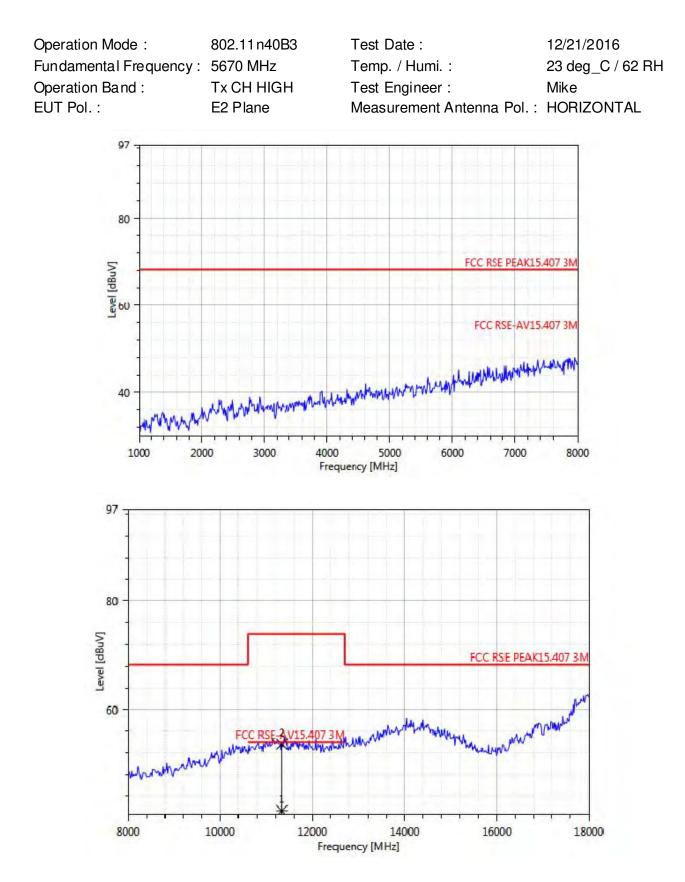


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