

 MOTOROLA SOLUTIONS	    CERTIFICATE 2518.08 MS ISO/IEC 17025 TESTING SAMMNO. 0825																																
MOTOROLA PENANG ADV. COMM. LABORATORY Motorola Solutions Malaysia SDN BHD, Plot 2A, Medan Bayan Lepas, Mukim 12 S.W.D, 11900 Bayan Lepas, Penang, Malaysia.	FCC / ISED TEST REPORT Report Revision : Rev.B																																
<table><tr><td>Date/s Tested</td><td>: 15-JAN-2020 - 5-MAR-2020</td></tr><tr><td>Report Issue Date</td><td>: 30-MAR-2020</td></tr><tr><td>Manufacturer</td><td>: Motorola Solutions Malaysia SDN BHD</td></tr><tr><td>Manufacturer Address</td><td>: Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>Requestor</td><td>: TEH TIAN HONG</td></tr><tr><td>Product Type</td><td>: Base Station</td></tr><tr><td>Product Version (PMN)</td><td>: GTR 8000</td></tr><tr><td>Model Number (HVIN)</td><td>: T7039A (T7039-UHFR1C)</td></tr><tr><td>Frequency Band</td><td>: 380-435 MHz</td></tr><tr><td>Firmware Version (FVIN)</td><td>: 35.00.09</td></tr><tr><td>Low / Max RF Output Power</td><td>: 2 Watts / 110 Watts</td></tr><tr><td>Applicant Name</td><td>: Motorola Solutions Inc</td></tr><tr><td>Applicant Address</td><td>: 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322.</td></tr><tr><td>ISED Registrations</td><td>: MY0001</td></tr><tr><td>FCC Registrations</td><td>: 461337</td></tr></table>  The equipment was tested accordance to the requirement listed below: <table><tr><td>(LMR) FCC 47 CFR Part 90 ISED RSS- 119 Issue 12</td><td>PASS</td></tr></table>		Date/s Tested	: 15-JAN-2020 - 5-MAR-2020	Report Issue Date	: 30-MAR-2020	Manufacturer	: Motorola Solutions Malaysia SDN BHD	Manufacturer Address	: Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia	Requestor	: TEH TIAN HONG	Product Type	: Base Station	Product Version (PMN)	: GTR 8000	Model Number (HVIN)	: T7039A (T7039-UHFR1C)	Frequency Band	: 380-435 MHz	Firmware Version (FVIN)	: 35.00.09	Low / Max RF Output Power	: 2 Watts / 110 Watts	Applicant Name	: Motorola Solutions Inc	Applicant Address	: 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322.	ISED Registrations	: MY0001	FCC Registrations	: 461337	(LMR) FCC 47 CFR Part 90 ISED RSS- 119 Issue 12	PASS
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Prepared By:  Gan Boon Teong Test Personnel	Approved Signatory: Vincent Foong Chuen Kit Deputy Technical Manager																																

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Report Revision History

Revision History	Description	Date	Originator
Rev. A	Initial Report	30-MAR-2020	Gan Boon Teong
Rev. B	Removed non relevant FCC parts, amended model number	15-May-2020	Vincent Foong

1.0 General Information

EUT Description:

Technologies	Land Mobile Radio (LMR)
Modulation Type	Analog, C4FM , Phase II, LSM, FSK

The EUT contains following accessory devices and data cable:

Item	Brand	Model or P/N
LINECORD PLUG & RECP 3.7 MTRS	MOTOROLA	3082933N20
DC Power Cable	MOTOROLA	1948691-1

General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, the EUT is to comply with the requirements of the following standards:

ANSI C63.4-2014

ANSI C63.26-2015

No modifications were done to the UUT to facilitate the tests in this report.

Deviation from standard

Not applicable as no deviation from standard test method

2.0 Summary of Test Results

FCC General Rules Part (47CFR)	ISED General Rules Part	Test Item	Result	Remarks	Serial number tested
2.1046, 22.565, 74.461, 74.534, 80.215.90	RSS-119	RF Power Output	Pass		112CVX1807
2.1055, 90.213, 22.355, 74.464, 74.561	RSS-119	Frequency Stability	Pass		112CVX1807
2.1047, 74.463, 80.213,80,90,22	RSS - 119	Audio Frequency Response	Pass		112CVX1807
2.1047, 74.463, 80.213,80,90,22	RSS - 119	Audio Low Pass Filter Response	Pass		112CVX1807
2.1047, 74.463, 80.213,80,90,22	RSS - 119	Modulation limiting	Pass		112CVX1807
2.1049, 90.210, 22.359, 74.462, 74.535, 80.211(c), 80.211(f),90	RSS - 119	Occupied Bandwidth	Pass	16K0F3E-14.8239kHz 11K0F3E-9.8859kHz 8K10F1E/8K10F1D /8K10F1W-7.3539kHz 9K80D7E/9K80D7D /9K80D7W-9.7833kHz 8K70D1E/8K70D1D /8K70D1W-9.0378kHz 16K0F1D-7.8711kHz 10K0F1D-5.4874 kHz	112CVX1807
-	-	Band Edge Conducted Spurious Emission	NA		
90.214	RSS-119	Transient Frequency Behavior	Pass		112CVX1807
-	-	Adjacent Channel Power	NA		
Low end of the band, Low end of part 90, Federal,90	RSS-119	Conducted Spurious Emissions	Pass	No spur detected (noise floor)	112CVX1807
Low end of the band, Low end of part 90, Federal,90	RSS-119	Radiated Spurious Emission	Pass	Highest Spur level- 38.98dBm	112CVX1806
-	-	GNSS (EIRP for 1559 – 1610MHz)	NA		
-	-	Effective Radiated Power (ERP)	NA		

NA → Not Applicable

3.0 Measurement Uncertainty

Measurement	Frequency	Expended Uncertainty (k=1.96) (±dB)
AC Power Line Conducted Spurious Emission	150KHz ~ 30MHz	3.43
Radiated Emissions up to 1 GHz	30MHz ~ 200MHz	4.03
	200MHz ~ 1000MHz	4.03
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	4.03
	18GHz ~ 25GHz	4.03

4.0 Equipment List

FCC Analog ATE#1: (SW version: 2.4.5 & FCC_Frequency Stability 1.0.3 rev.)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
AUDIO ANALYZER	8903B	3729A17612	15-Nov-17	15-Nov-20
SIGNAL GENERATOR	2042	203002/956	20-Aug-19	20-Aug-20
MODULATION ANALYZER	8901B	3538A5696	4-Apr-19	4-Apr-20
DSA Dynamic Signal Analyzer	36570A	MY42506790	4-Apr-19	4-Apr-20
POWER SENSOR	E4412A	MY41502652	31-Jul-19	31-Jul-20
POWER METER	E4416A	GB41293747	19-Nov-18	19-Nov-20
POWER SUPPLY	6623A	2916A01562	31-Mar-19	31-Mar-20
CHAMBER	SH-641	92009188	29-Mar-19	29-Mar-20
N to N RF Cable # 1	M17/128-RG400	NA	NA	NA
BNC to N RF Cable # 1	RG 58	NA	NA	NA
BNC to BNC RF Cable # 1	RG 58	NA	NA	NA
BNC to BNC RF Cable # 2	RG 58	NA	NA	NA
BNC to BNC RF Cable # 3	RG 58	NA	NA	NA
BNC to BNC RF Cable # 4	RG 58	NA	NA	NA
BNC to BNC RF Cable # 5	RG 58	NA	NA	NA
BNC to BNC RF Cable # 6	RG 58	NA	NA	NA
BNC to BNC RF Cable # 7	RG 58	NA	NA	NA
N to SMA RF Cable # 1	RG 58	NA	NA	NA
N to SMA RF Cable # 2	RG 58	NA	NA	NA
N to SMA RF Cable # 3	RG 58	NA	NA	NA
Aeroflex Attenuator 30dB	49-30-34-LIM	NA	NA	NA

FCC Transient ATE #1: (SW version: FCC Transient ATE_R1.1.2)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
POWER SUPPLY	6031A	2430A00146	5-Apr-19	5-Apr-20
POWER SENSOR	E4412A	MY41498918	31-Jul-19	31-Jul-20
POWER METER	E4416A	GB41293866	26-Feb-19	26-Feb-21
ATTENUATORS/SWITCH DRIVER	11713A	2508A10141	CNR	CNR
STEP ATTENUATOR/11dB	8494G	MY52300223	2-Aug-19	2-Aug-20
STEP ATTENUATOR/110dB	8496G	MY52000176	9-Aug-19	9-Aug-20
OSCILLOSCOPE	MSO8104A	MY45002372	17-Jun-19	17-Jun-20
AUDIO ANALYZER	8903B	3011A08952	5-Jul-19	5-Jul-20
AUDIO ANALYZER	8903B	3729A17409	4-Jul-19	4-Jul-20
MODULATION ANALYZER	8901B	3226A04052	3-Apr-19	3-Apr-20
SIGNAL GENERATOR	8657B	3427U06025	5-Apr-19	5-Apr-20
SPECTRUM ANALYZER	E4440A	MY48250517	1-Aug-19	1-Aug-20
N to N RF Cable # 1	SF126/11N/11N	NA	NA	NA
N to N RF Cable # 2	M17/128-RG400	NA	NA	NA
N to N RF Cable # 3	M17/128-RG400	NA	NA	NA
N to N RF Cable # 4	M17/128-RG400	NA	NA	NA
N to N RF Cable # 5	M17/128-RG400	NA	NA	NA
N to N RF Cable # 6	M17/128-RG400	NA	NA	NA
N to N RF Cable # 7	M17/128-RG400	NA	NA	NA
N to N RF Cable # 8	M17/128-RG400	NA	NA	NA
N to N RF Cable # 9	M17/128-RG400	NA	NA	NA
BNC to BNC RF Cable # 1	RG 58	NA	NA	NA
BNC to BNC RF Cable # 2	RG 58	NA	NA	NA
BNC to BNC RF Cable # 3	RG 58	NA	NA	NA
BNC to BNC RF Cable # 4	RG 58	NA	NA	NA
BNC to BNC RF Cable # 5	RG 58	NA	NA	NA
BNC to BNC RF Cable # 6	RG 58	NA	NA	NA
BNC to N RF Cable # 1	RG 58	NA	NA	NA
Aeroflex Attenuator 10dB	49-10-43-LIM	NA	NA	NA
Aeroflex Attenuator 10dB	33-10-34-LIM	NA	NA	NA
SWITCH CONTROL UNIT	3488A	2719A36210	CNR	CNR

CNR→Calibration Not Required

CONDUCTED SPUR EMISSION ATE # 1 (SW version: Conducted Spur ATE rev 1.23.02)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
SWITCH CONTROL UNIT	3488A	2719A32735	CNR	CNR
PSA Series Spectrum Analyzer	E4445A	MY46181732	12-Mar-19	12-Mar-21
POWER SUPPLY	6032A	2723A02219	2-Jul-19	2-Jul-20
HIGH PASS FILTER SWITCH BOX	-	CS001	4-Jul-19	4-Jul-20
N to N RF Cable # 1	SF126/11N/11N	NA	NA	NA
N to N RF Cable # 2	SF126/11N/11N	NA	NA	NA
BNC to BNC RF Cable # 1	RG 58	NA	NA	NA
Aeroflex Attenuator 30dB	49-30-43-LIM	NA	NA	NA
Aeroflex Attenuator 10dB	33-10-34-LIM	NA	NA	NA

**Radiated Emission Station
 EMC Chamber 1**

DESCRIPTION	MODEL	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
DRG HORN FREQ.	SAS-571	720	21-Mar-19	21-Mar-21
DRG HORN FREQ.	SAS-571	1143	14-Feb-19	14-Feb-21
POWER SUPPLY (0-60V / 0-50A, 1000W)	6032A	MY41001736	25-May-19	25-May-20
SIGNAL GENERATOR	SMB 100A	181117	8-Nov-18	8-Nov-21
EMI TEST RECEIVER	ESW44	101750	24-Jul-19	24-Jul-20
EMI TEST RECEIVER	ESIB26	100017	19-Jul-19	19-Jul-20
5m Semi-anechoic Chamber	S800-HX	J2308	No Cal. Req'd	No Cal. Req'd
BILOG ANTENNA	CBL6112D	30991	5-Aug-19	5-Aug-20
BILOG ANTENNA	CBL6112B	2964	16-Feb-18	16-Feb-20
DATA LOGGER	SDL500	A.016800	19-Mar-19	18-Mar-20
SYSTEM CONTROLLER	SC104V	050806-1	No Cal. Req'd	No Cal. Req'd
TURNTABLE FLUSH MOUNT 2M	FM2011	NA	No Cal. Req'd	No Cal. Req'd
ANTENNA POSITIONING TOWER	TLT2	NA	No Cal. Req'd	No Cal. Req'd
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170143	23-Jun-19	23-Jun-20
18 - 40GHz PREAMPLIFIER	Miteq Hi Gain Sucoflex	001	No Cal. Req'd	No Cal. Req'd
PREAMPLIFIER	PAM-0118	269	24-May-19	24-May-20
LOOP ANTENNA	6502	00208416	5-Sep-19	5-Sep-20
Test Software	EMC_FCC_IC_Bluetooth_RE_Test			
Version	EMC FCC RE v1.6.1			

5.0 Test Condition

5.1. Transmitter Test Conditions

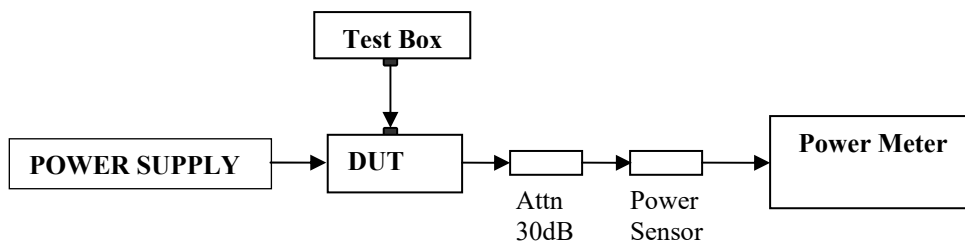
Test Item, (Channel Spacing)	Power (W)	Modulation	Test Frequency (MHz)	Tested By	Environmental conditions
RF Output Power	Low & Max	Analog	380.0125, 406.2000, 418.0500, 429.9875, 434.9875	Gan	23.2°C, 57.3%RH
Frequency Stability	Max	Analog	406.2000	Gan	25.1°C, 54.3%RH, 60.3°C, 50%RH, -30.1°C, 50%RH
Audio Frequency Response (12.5kHz / 25kHz)	Max	Analog	406.2000	Gan	23.2°C, 57.3%RH
Audio Low Pass Filter Response (12.5kHz / 25kHz)	Max	Analog	406.2000	Gan	23.2°C, 57.3%RH
Modulation limiting (12.5kHz / 25kHz)	Max	Analog	406.2000	Gan	23.2°C, 57.3%RH
Occupied Bandwidth (12.5kHz / 20kHz / 25kHz)	Max	Analog, C4FM, Phase II, LSM, FSK	380.0125, 406.2000, 418.0500, 429.9875, 434.9875	Gan	23.2°C, 57.3%RH
Band Edge Conducted Spurious Emissions (Part 22) (12.5kHz / 20kHz / 25kHz)	Max	Analog, C4FM, Phase II	NA	NA	NA
Transient Frequency Behavior (UHF & VHF Band) (12.5kHz / 25kHz)	Max	Analog, C4FM	406.2000	Gan	23.2°C, 57.3%RH
Adjacent Channel Power (700MHz Band) (12.5kHz / 25kHz)	Max	Analog, C4FM, Phase II	NA	NA	NA
Conducted Spurious Emissions- (12.5kHz / 25kHz)	Low / Max	Analog, C4FM, Phase II, LSM, FSK	380.0125, 406.2000, 418.0500, 429.9875, 434.9875	Gan	23.2°C, 57.3%RH
Radiated Spurious Emission (12.5kHz / 25kHz)	Low / Max	Analog, C4FM, Phase II, LSM, FSK	380.0125, 406.2000, 418.0500, 429.9875, 434.9875	Nazrin&Qawiman	23.6°C, 69.7%RH
GNSS (EIRP for 1559 - 1610MHz) (12.5kHz / 25kHz)	Max	Analog	NA	NA	NA
Effective Radiated Power (ERP) (12.5kHz / 25kHz)	Max	Analog	NA	NA	NA

NA → Not Applicable

6.0 Transmitter Test Parameters

6.1 RF Output Power

6.1.1 Test Setup



- 1) The DUT transmitter connected to Power Meter using the 30 dB attenuator and power sensor with above setup.
- 2) Path loss for the measurement included.
- 3) All the measurement was done at low, mid, high frequency for each band.
- 4) Record the power into the test report.

6.1.2. Test Result

AC 240V

Temperature	25°C			
Voltage (V)	240V			
Frequency (MHz)	Low Power (W)	Current (A)	Max Power (W)	Current (A)
380.01250	1.92	0.64	106.00	1.45
406.20000	1.96	0.64	106.00	1.53
418.05000	1.99	0.65	105.00	1.55
429.98750	2.03	0.64	107.00	1.53
434.98750	1.96	0.65	105.00	1.52

AC 120V

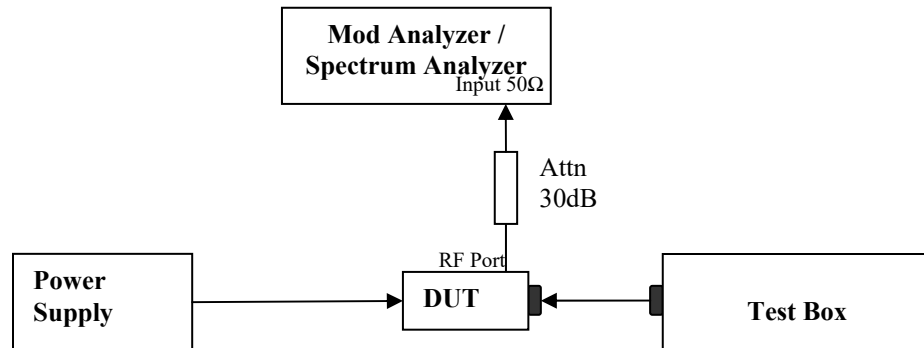
Temperature	25°C			
Voltage (V)	120V			
Frequency (MHz)	Low Power (W)	Current (A)	Max Power (W)	Current (A)
380.01250	1.95	1.15	105.00	2.88
406.20000	1.96	1.16	106.00	3.04
418.05000	1.98	1.17	105.00	3.08
429.98750	1.96	1.17	107.00	3.06
434.98750	2.02	1.17	105.00	3.02

DC 48V

Temperature	25°C			
Voltage (V)	48V			
Frequency (MHz)	Low Power (W)	Current (A)	Max Power (W)	Current (A)
380.01250	1.96	2.73	106.00	6.84
406.20000	1.98	2.79	105.00	7.26
418.05000	1.91	2.80	105.00	7.43
429.98750	1.95	2.76	106.00	7.35
434.98750	1.98	2.79	105.00	7.35

6.2. Frequency Stability

6.2.1. Test Setup



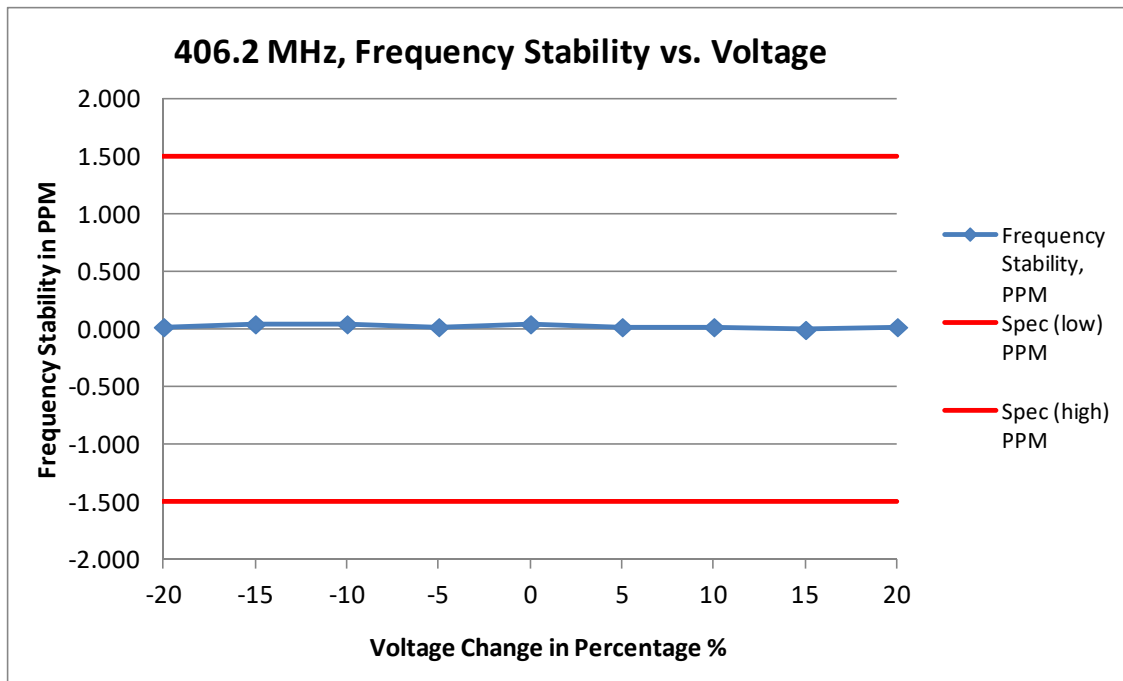
- 1) The DUT transmitter output port was connected to Modulation / Spectrum Analyzer.
- 2) Path loss for the measurement included.
- 3) Transmit the DUT and record the freq in MCF_{MHz} .
- 4) Test in 2 conditions:
 - Temperature: The frequency of the transmitter was measured from -30°C to 50°C.
 - Supply Voltage:
 - Mobile: The frequency of the transmitter was measured from 85% to 115% of the nominal operating input voltage.
 - Portable: The frequency of the transmitter was measured from nominal $\pm x\%$ as specified by the manufacturer
- 5) Calculate the ppm frequency error by the following:

$$ppm\ error = \left(\frac{MCF_{MHz}}{ACF_{MHz}} - 1 \right) * 10^6$$

Where: MCF_{MHz} is the Measured Carrier Frequency in MHz
 ACF_{MHz} is the Assigned Carrier Frequency in MHz

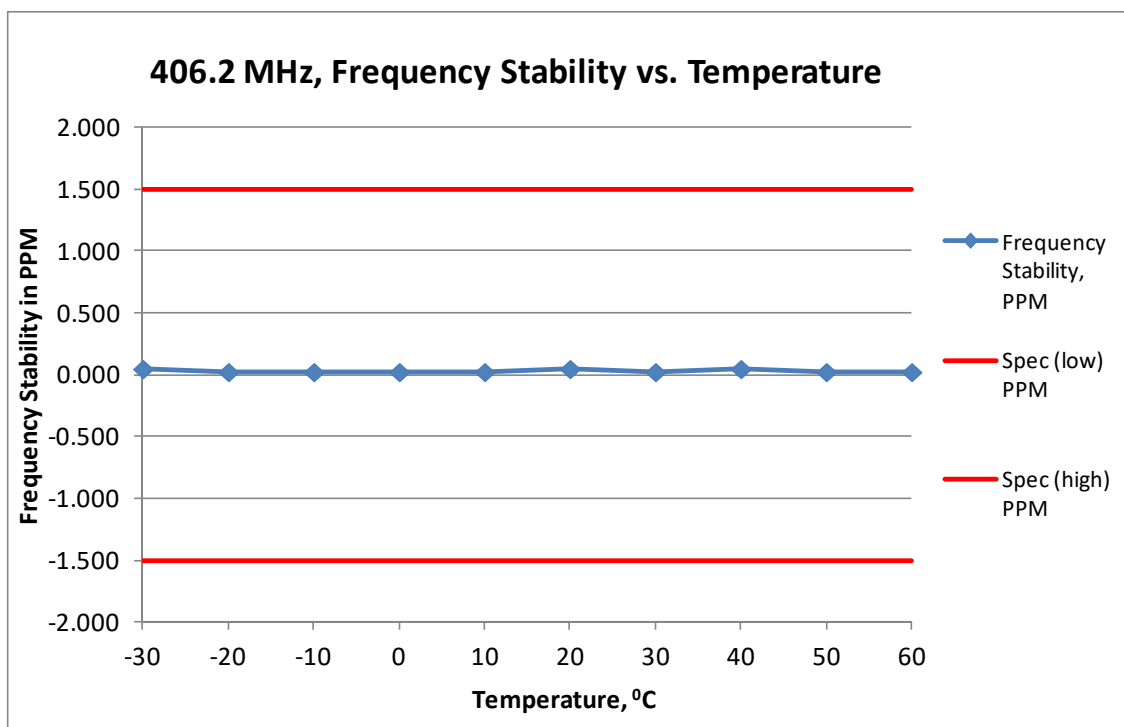
6.2.2. Test Result

AC 240V



(i) Frequency Stability VS Voltage

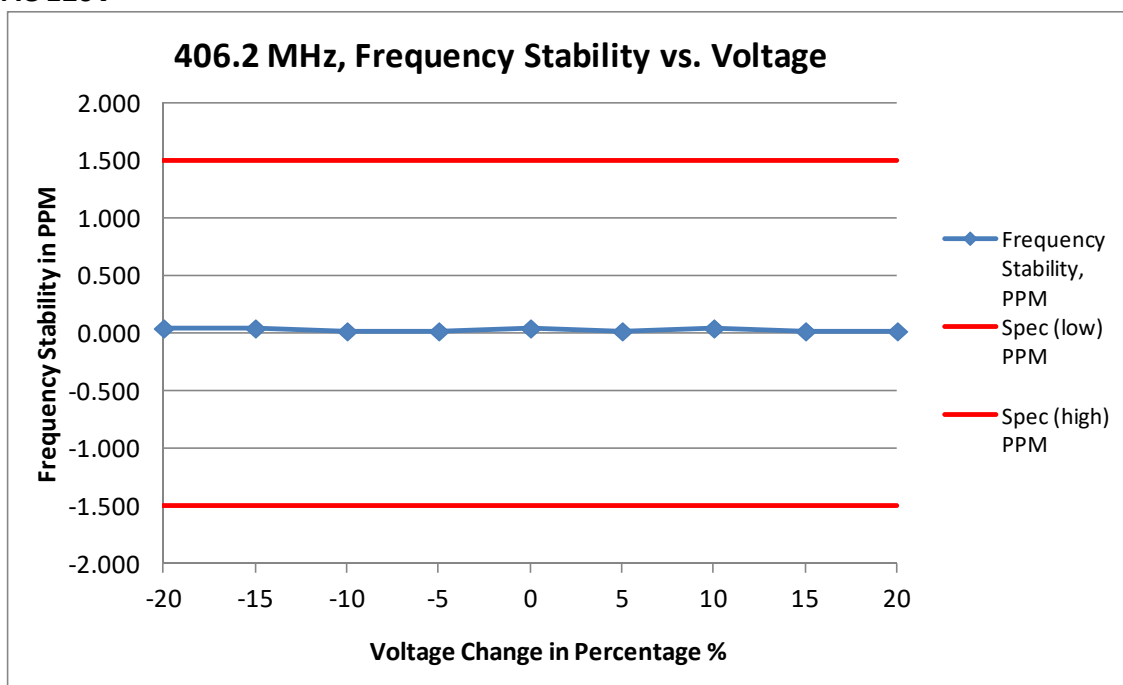
Frequency / Channel Spacing	406.2 MHz / 12.50 kHz				
Temperature, °C	25				
Voltage %	Voltage, V	Frequency, MHz	Frequency Stability, PPM	Spec (low) PPM	Spec (high) PPM
-20	192.000	406.200010	0.025	-1.500	1.500
-15	204.000	406.200020	0.049	-1.500	1.500
-10	216.000	406.200020	0.049	-1.500	1.500
-5	228.000	406.200010	0.025	-1.500	1.500
0	240.000	406.200020	0.049	-1.500	1.500
5	252.000	406.200010	0.025	-1.500	1.500
10	264.000	406.200010	0.025	-1.500	1.500
15	276.000	406.200000	0.000	-1.500	1.500
20	288.000	406.200010	0.025	-1.500	1.500



(ii) Frequency Stability VS temperature

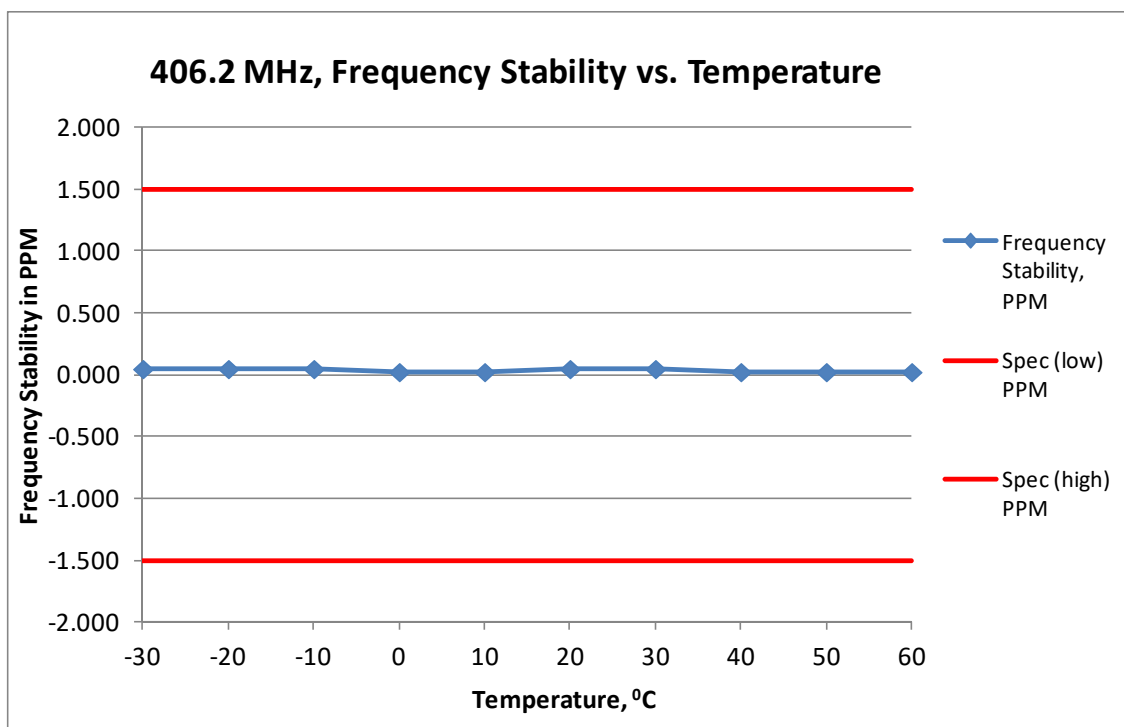
Frequency / Channel Spacing	406.2 MHz / 12.50 kHz			
Voltage, V	240.0			
Temperature, °C	Frequency, MHz	Frequency Stability, PPM	Spec (low) PPM	Spec (high) PPM
-30	406.200020	0.049	-1.500	1.500
-20	406.200010	0.025	-1.500	1.500
-10	406.200010	0.025	-1.500	1.500
0	406.200010	0.025	-1.500	1.500
10	406.200010	0.025	-1.500	1.500
20	406.200020	0.049	-1.500	1.500
30	406.200010	0.025	-1.500	1.500
40	406.200020	0.049	-1.500	1.500
50	406.200010	0.025	-1.500	1.500
60	406.200010	0.025	-1.500	1.500

AC 120V



(i) Frequency Stability VS Voltage

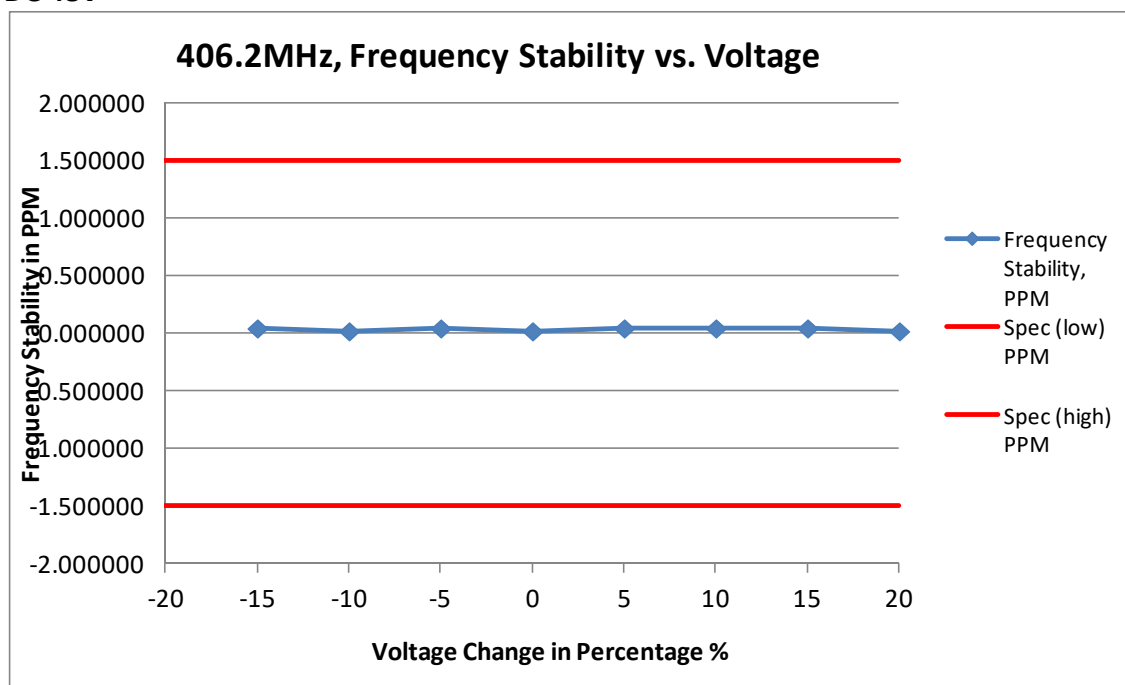
Frequency / Channel Spacing		406.2 MHz / 12.50 kHz			
Temperature, °C		25			
Voltage %	Voltage, V	Frequency, MHz	Frequency Stability, PPM	Spec (low) PPM	Spec (high) PPM
-20	96.000	406.200020	0.049	-1.500	1.500
-15	102.000	406.200020	0.049	-1.500	1.500
-10	108.000	406.200010	0.025	-1.500	1.500
-5	114.000	406.200010	0.025	-1.500	1.500
0	120.000	406.200020	0.049	-1.500	1.500
5	126.000	406.200010	0.025	-1.500	1.500
10	132.000	406.200020	0.049	-1.500	1.500
15	138.000	406.200010	0.025	-1.500	1.500
20	144.000	406.200010	0.025	-1.500	1.500



(ii) Frequency Stability VS temperature

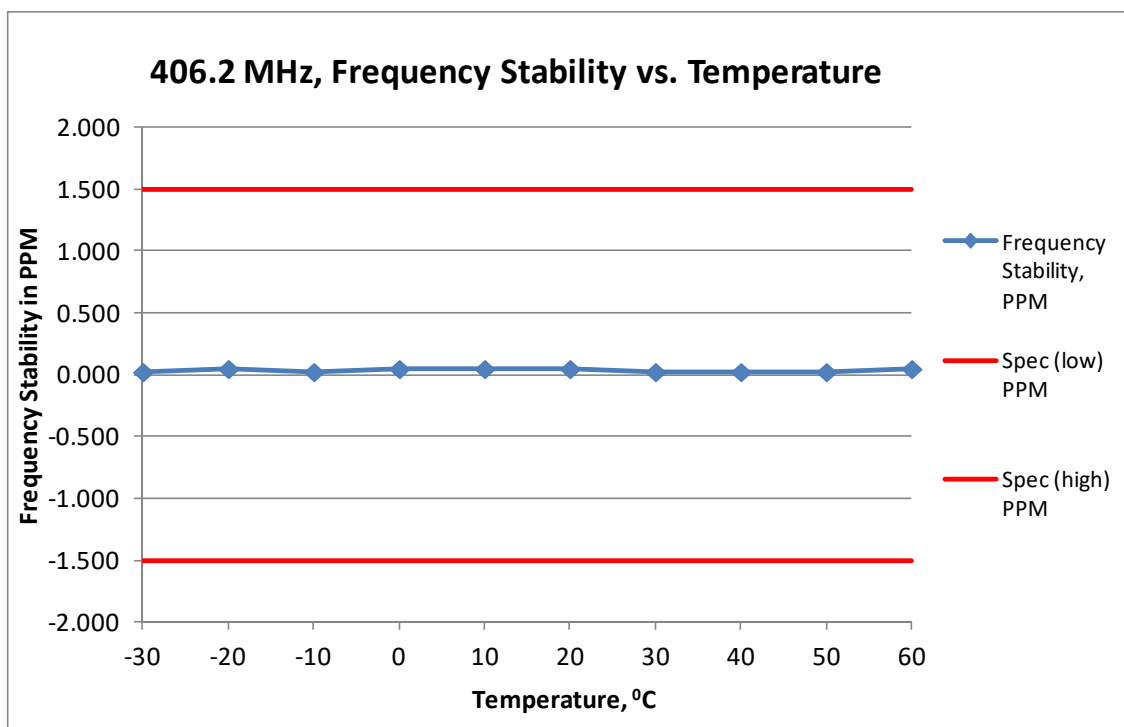
Frequency / Channel Spacing	406.2 MHz / 12.50 kHz			
Voltage, V	120.0			
Temperature, °C	Frequency, MHz	Frequency Stability, PPM	Spec (low) PPM	Spec (high) PPM
-30	406.200020	0.049	-1.500	1.500
-20	406.200020	0.049	-1.500	1.500
-10	406.200020	0.049	-1.500	1.500
0	406.200010	0.025	-1.500	1.500
10	406.200010	0.025	-1.500	1.500
20	406.200020	0.049	-1.500	1.500
30	406.200020	0.049	-1.500	1.500
40	406.200010	0.025	-1.500	1.500
50	406.200010	0.025	-1.500	1.500
60	406.200010	0.025	-1.500	1.500

DC 48V



(i) Frequency Stability VS Voltage

Frequency / Channel Spacing		406.2 MHz / 12.50 kHz			
Temperature, °C		25			
Voltage %	Voltage, V	Frequency, MHz	Frequency Stability, PPM	Spec (low) PPM	Spec (high) PPM
-20	38.400			-1.500	1.500
-15	42.000	406.200020	0.049	-1.500	1.500
-10	43.200	406.200010	0.025	-1.500	1.500
-5	45.600	406.200020	0.049	-1.500	1.500
0	48.000	406.200010	0.025	-1.500	1.500
5	50.400	406.200020	0.049	-1.500	1.500
10	52.800	406.200020	0.049	-1.500	1.500
15	55.200	406.200020	0.049	-1.500	1.500
20	57.600	406.200010	0.025	-1.500	1.500



(ii) Frequency Stability VS temperature

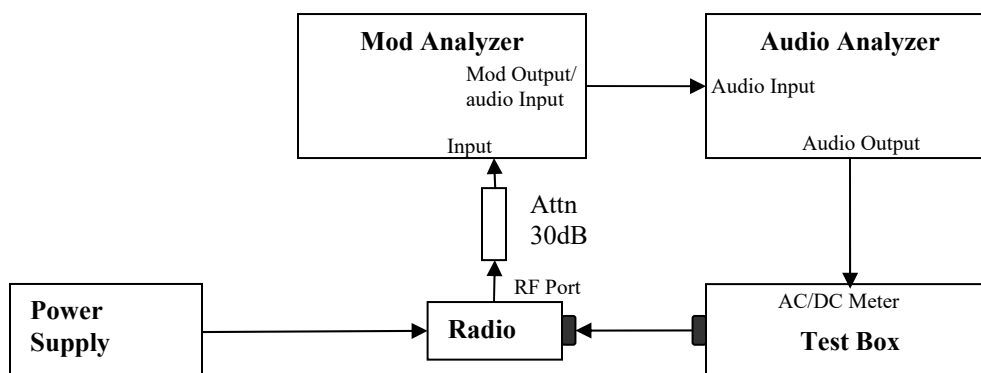
Frequency / Channel Spacing		406.2 MHz / 12.50 kHz		
Voltage, V		48.0		
Temperature, °C	Frequency, MHz	Frequency Stability, PPM	Spec (low) PPM	Spec (high) PPM
-30	406.200010	0.025	-1.500	1.500
-20	406.200020	0.049	-1.500	1.500
-10	406.200010	0.025	-1.500	1.500
0	406.200020	0.049	-1.500	1.500
10	406.200020	0.049	-1.500	1.500
20	406.200020	0.049	-1.500	1.500
30	406.200010	0.025	-1.500	1.500
40	406.200010	0.025	-1.500	1.500
50	406.200010	0.025	-1.500	1.500
60	406.200020	0.049	-1.500	1.500

6.2.3. Test Limit

As per manufacturer declared spec +/- 1.5ppm

6.3. Audio Frequency Response

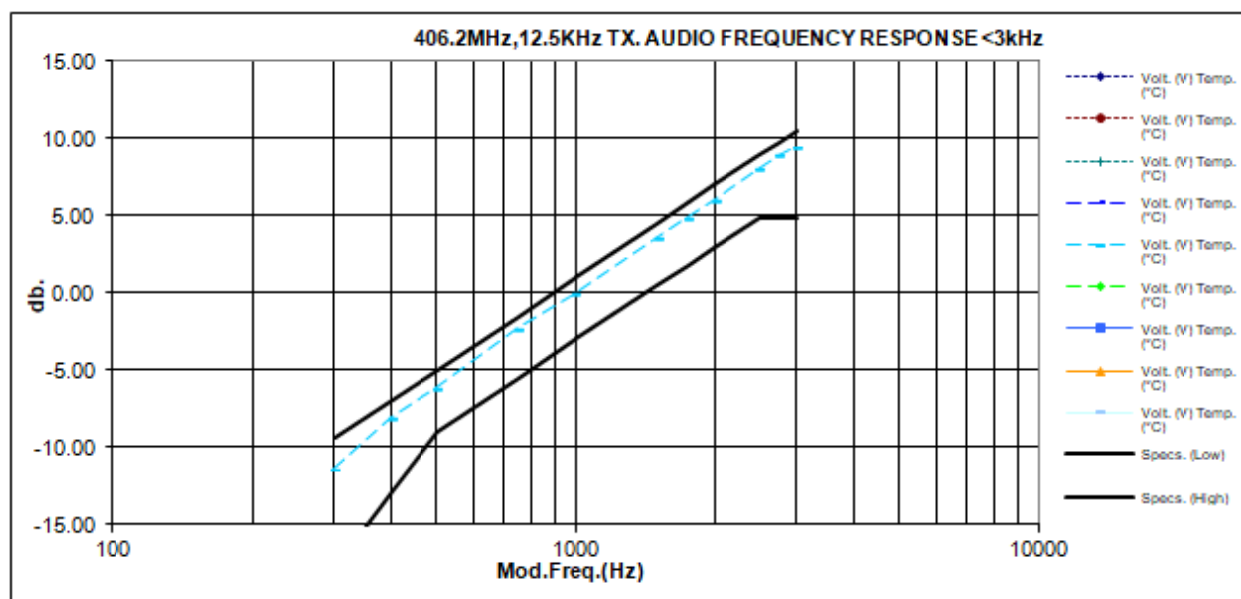
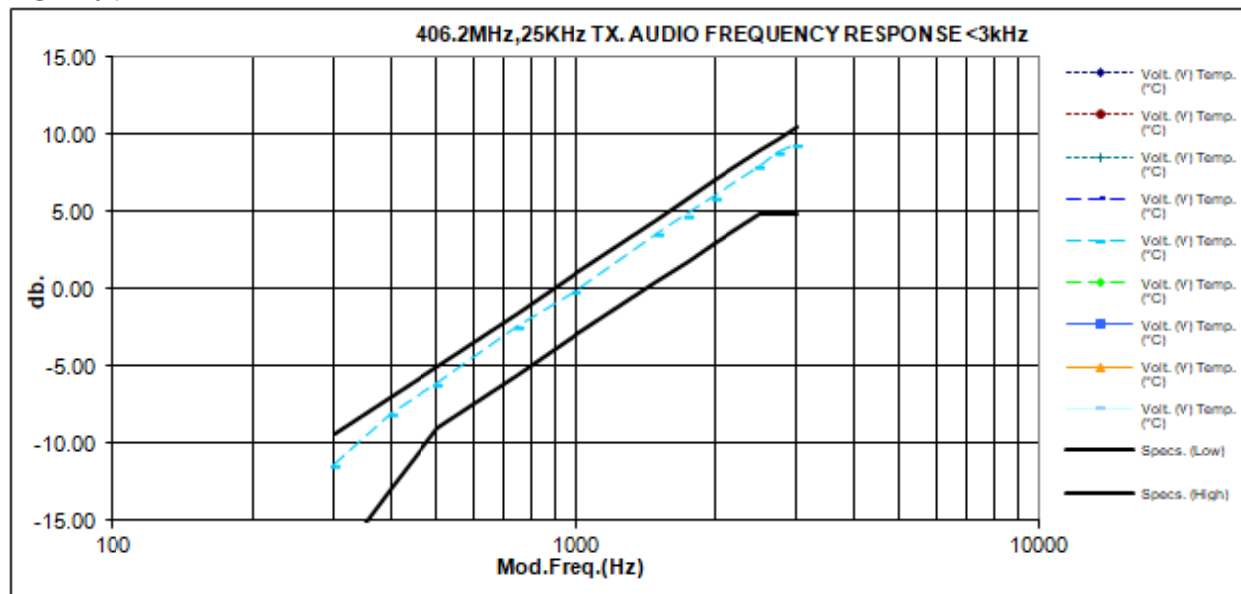
6.3.1. Test Setup



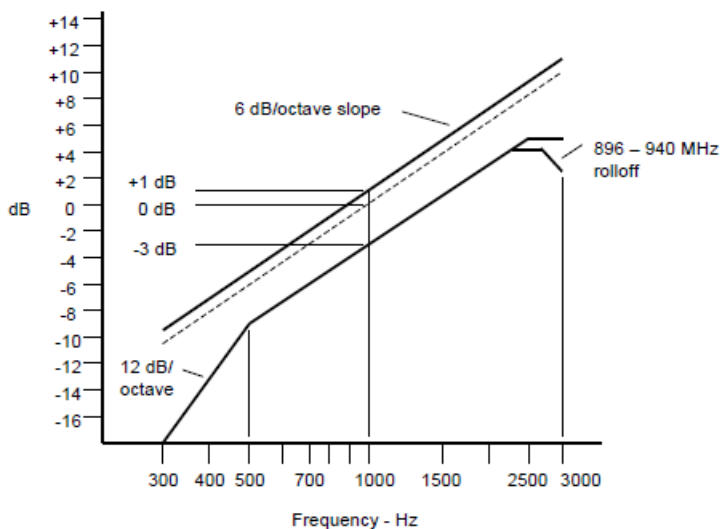
- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Path loss for the measurement included.
- 3) Set the audio bandwidth filter to 15 kHz and 50 kHz.
- 4) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 20% of the Full rated system deviation.
- 5) On audio analyzer, set the rated level as reference to zero.
- 6) Vary the audio frequency from 300 Hz to 3 kHz. Record the change in dB on the audio analyzer.

6.3.2. Test Result

AC 240V



6.3.3. Test Limit

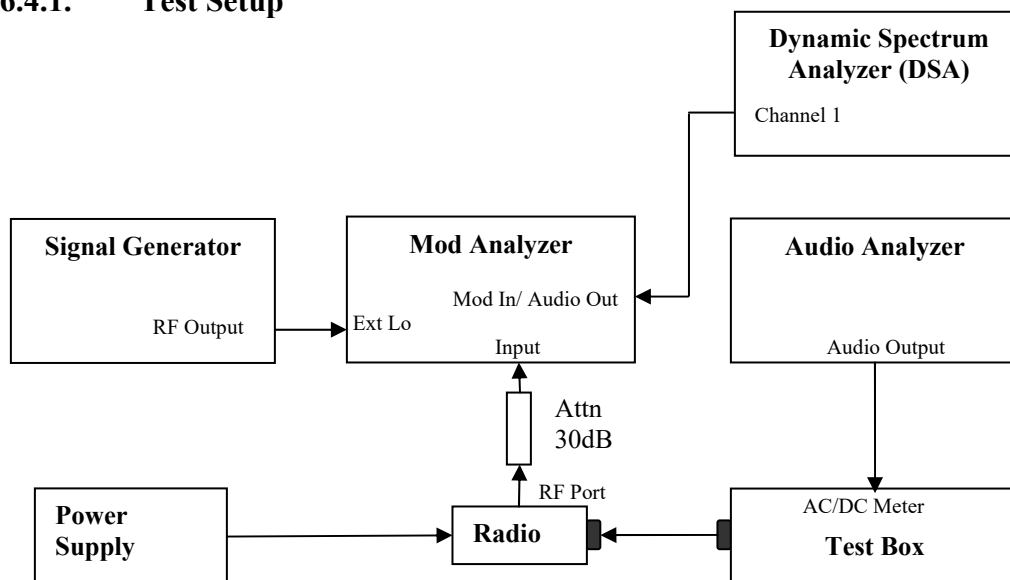


Note:

- o There are additional 6 dB per octave attenuation is allowed from 2.5KHz to 3KHz in equipment 25MHz to 869MHz radio.
- o Additional 6 dB per octave attenuation is allowed from 2.3KHz to 2.7KHz & additional 12 dB per octave attenuation is allowed from 2.7KHz to 3KHz in equipment 896MHz to 940MHz radio.

6.4. Audio Low Pass Filter Response

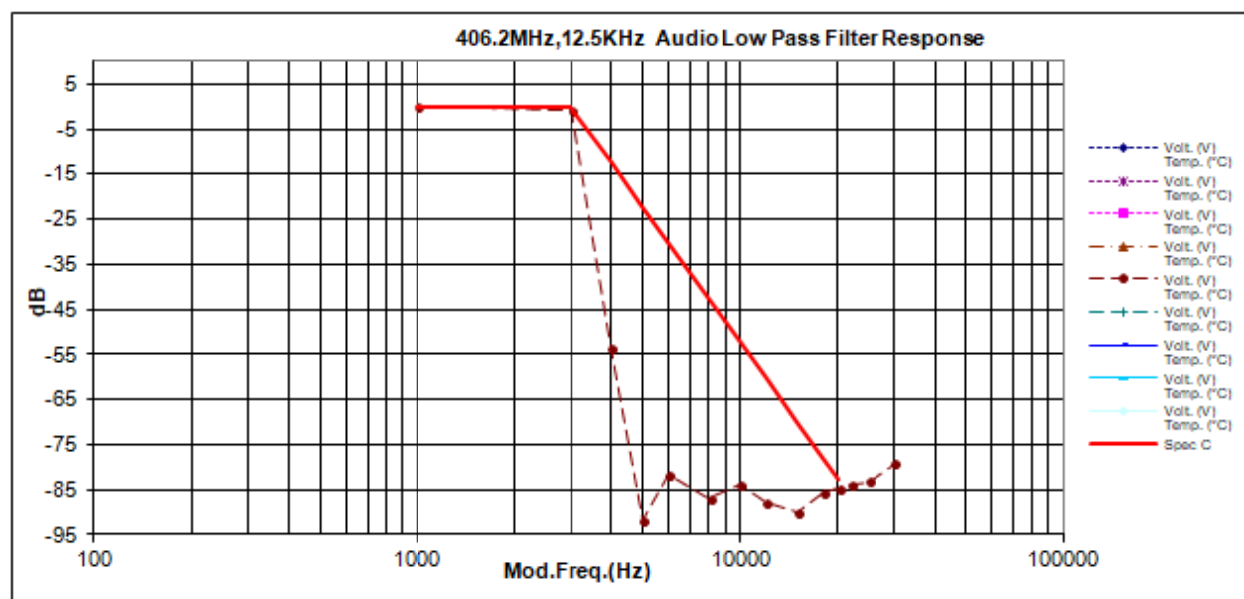
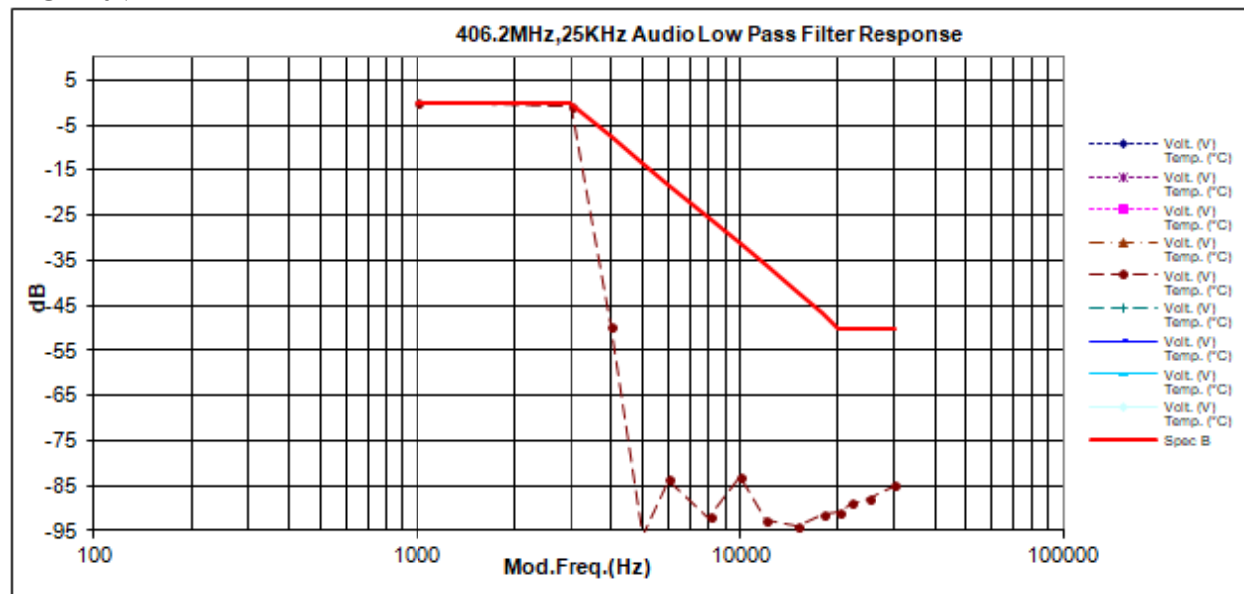
6.4.1. Test Setup



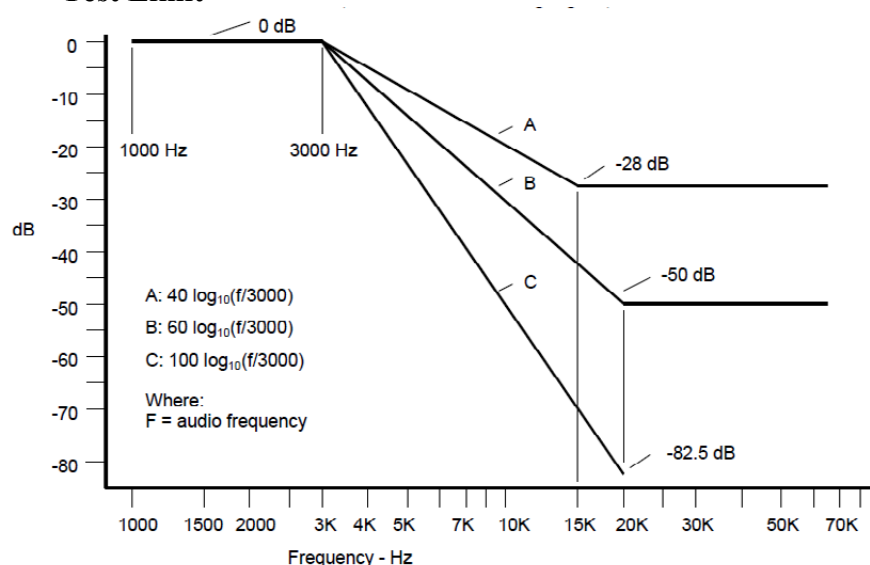
- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Path loss for the measurement included.
- 3) Press 23.1SPCL on modulation analyzer to enable the external LO from Sigen.
- 4) Set the Sigen frequency to $F_c + 1.5$ MHz, RF output level to 0dBm without modulation.
- 5) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 60% of the Full rated system deviation.
- 6) Up the amplitude by 20dB.
- 7) On DSA, get the reference point to 0dB.
- 8) Vary the frequency on audio analyzer from 3 kHz to 20 kHz, record the audio tone from DSA.

6.4.2. Test Result

AC 240V



6.4.3. Test Limit



For audio frequencies above 3000 Hz, the audio response of the post limiter low-pass filter shall meet or exceed the following requirements:

- a) For equipment operating on 20, 25 or 30 kHz channel bandwidth in the 25 MHz to 174 MHz range:

At frequencies from 3000 Hz through 15,000 Hz the attenuation shall be greater than the attenuation at 1000 Hz by at least: $40 \log_{10}(f/3000)$ dB

where: f is the audio frequency in Hz.

At frequencies above 15,000 Hz, the attenuation shall be greater than the attenuation at 1000 Hz, by at least: 28 dB.

- b) For equipment operating with 25 kHz bandwidth channels between 406 and 512 MHz through 896 MHz, and between 929 MHz through 930 MHz:

At frequencies from 3000 Hz through 20,000 Hz, the attenuation shall be greater than the attenuation at 1000 Hz by at least: $60 \log_{10}(f/3000)$ dB

where: f is the audio frequency in Hz.

At frequencies above 20,000 Hz the attenuation shall be greater than the attenuation at 1000 Hz by at least: 50 dB.

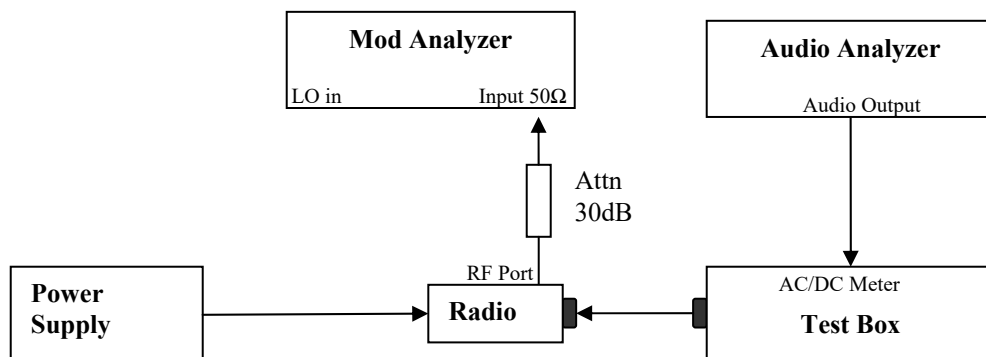
- c) For equipment operating on channels between 896 MHz through 901 MHz, between 935 MHz through 940 MHz, and 12.5 or 15 kHz spaced channels in the frequency range 138-174 MHz and 406-512 MHz.

At frequencies from 3000 Hz through 20,000 Hz the attenuation shall be greater than the attenuation at 1000 Hz by at least: $100 \log_{10}(f/3000)$ dB

where: f is the audio frequency in Hz.

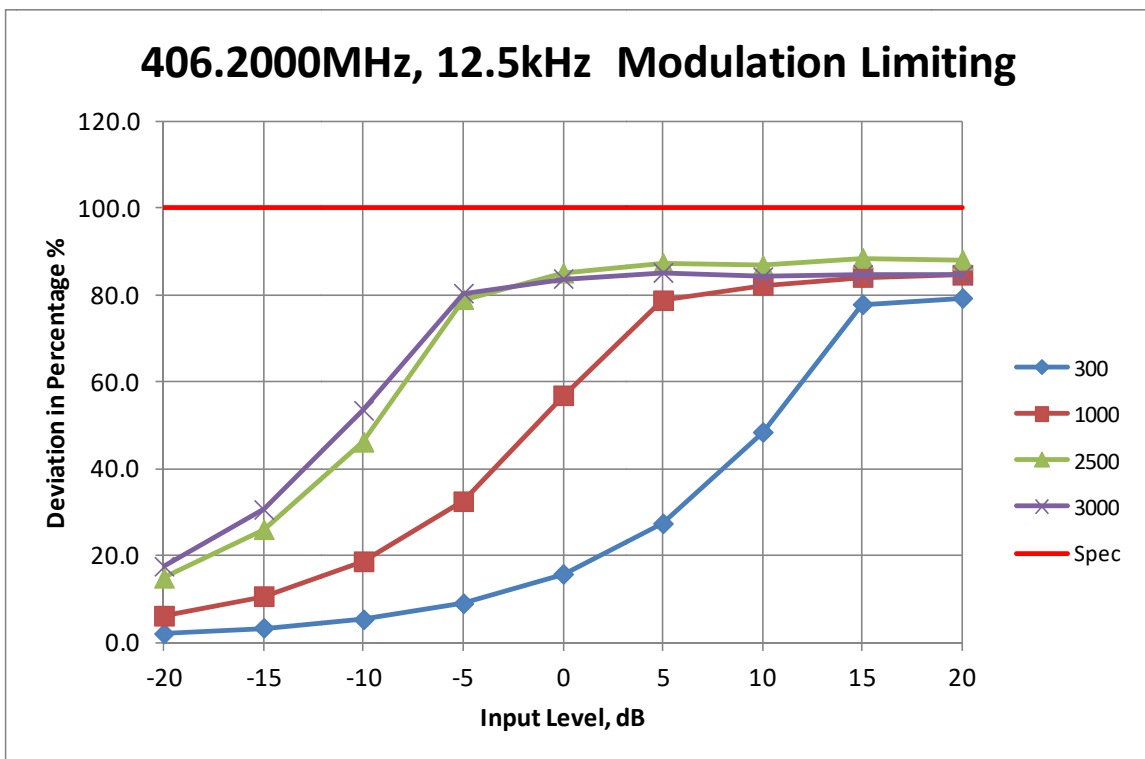
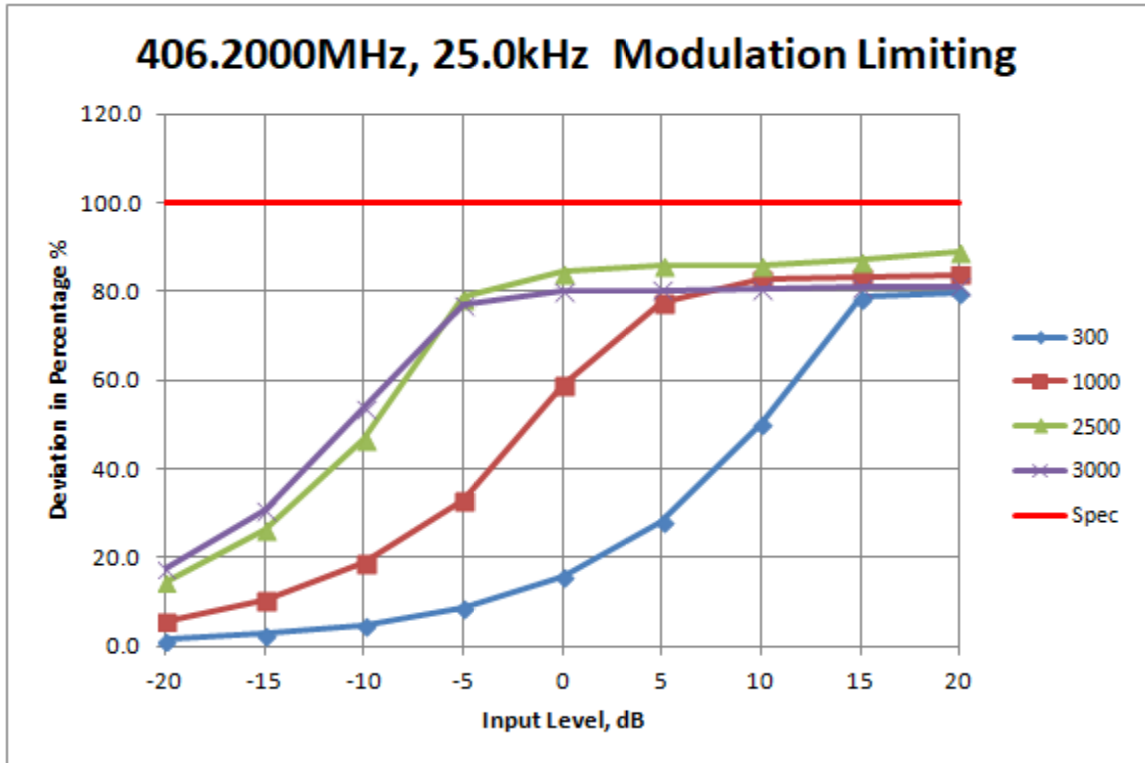
6.5. Modulation Limiting

6.5.1. Test Setup



- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Path loss for the measurement included.
- 3) Set the audio bandwidth filter to 15 kHz.
- 4) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 60% of the Full rated system deviation.
- 5) Record the frequency deviation as 0dB input level at 1kHz audio frequency.
- 6) Repeat the step and record the frequency deviation from -20 dB to 20dB by 5 dB increments and different audio freq 300 Hz, 2.5 kHz and 3 kHz.

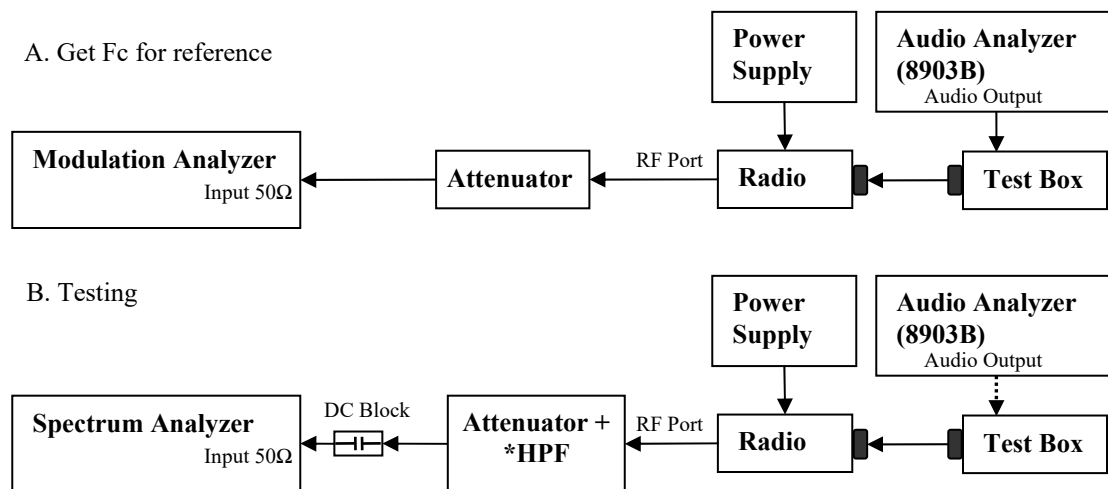
6.5.2. Test Result AC 240V



6.5.3. Test Limit Modulation Limiting shall not exceed 100 percent.

6.6. Occupied Bandwidth

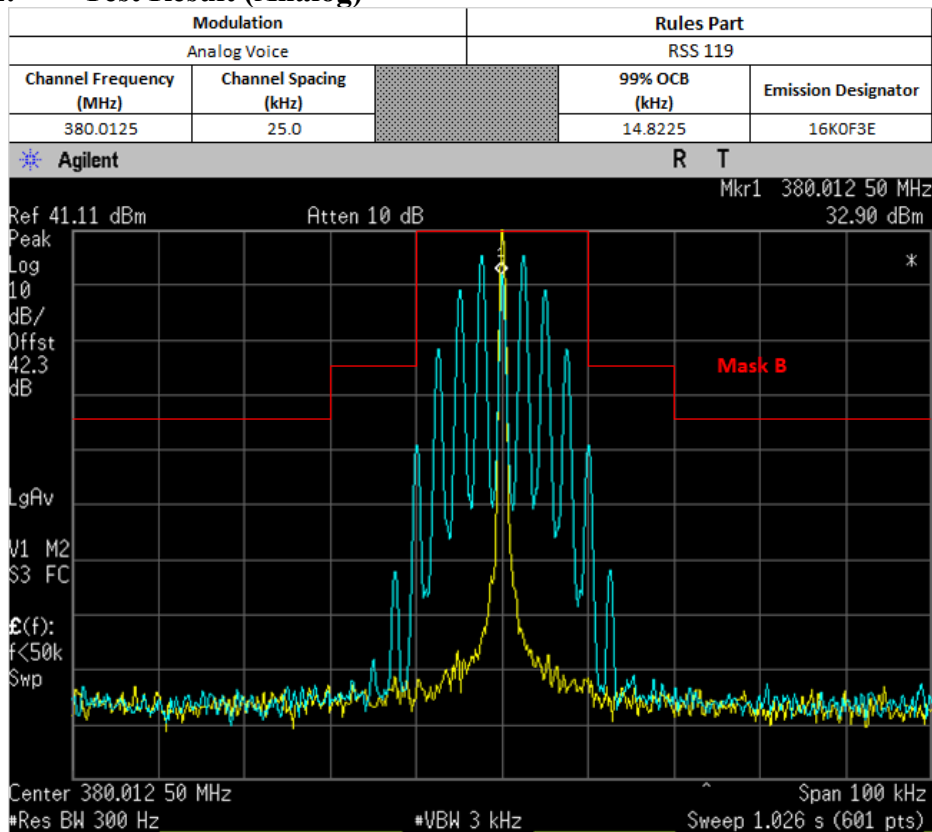
6.6.1. Test Setup (Analog)



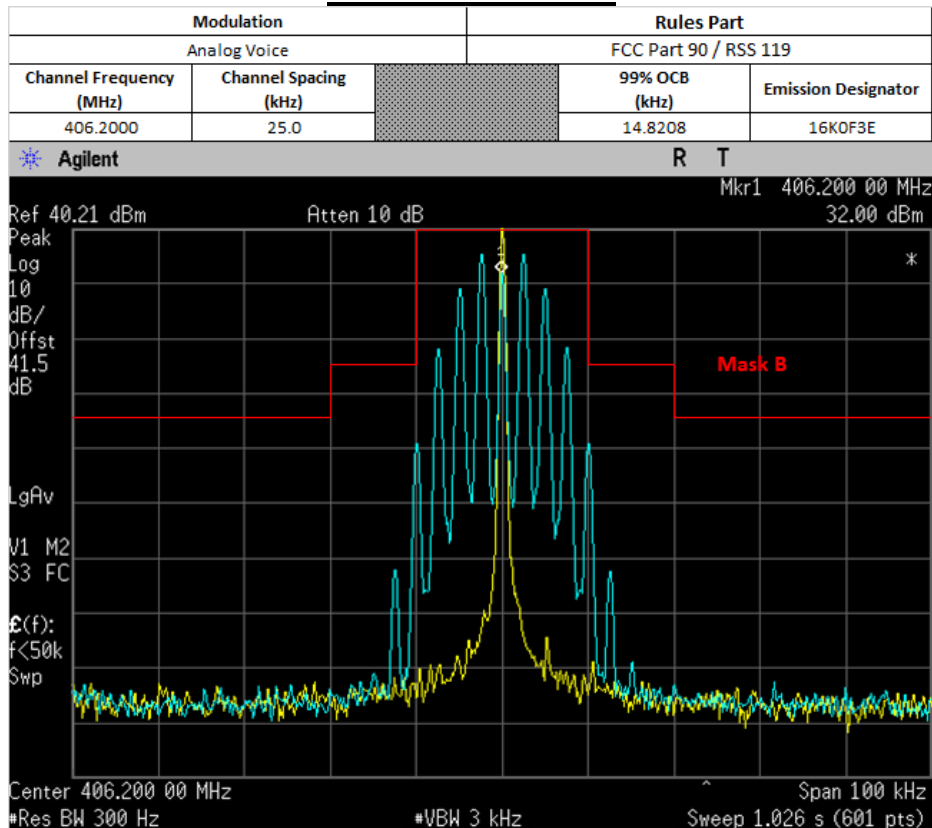
- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Set the audio bandwidth filter to 15 kHz low pass filter and 50 kHz high pass filter.
- 3) Transmit the radio and set the audio analyzer to 2.5 kHz audio frequency and 50% of the rated deviation. Up the amplitude by 16 dB. Dekey the DUT.
- 4) Path loss for the measurement included.
- 5) Select the Occupied Bandwidth measurement for 99% Emissions Bandwidth Measurement.
- 6) Key in the Fc and Resolution Bandwidth (1 ~ 5 % of emission designator).
- 7) Transmit the DUT and record the occupied Bandwidth frequency.
- 8) Preset the spectrum analyzer for sideband spectrum measurement.
- 9) Set the span and Resolution Bandwidth (according to FCC/ ISED standard).
- 10) Save the screen shot as modulated signal
- 11) Remove the audio tone from audio analyzer to capture unmodulated signal.

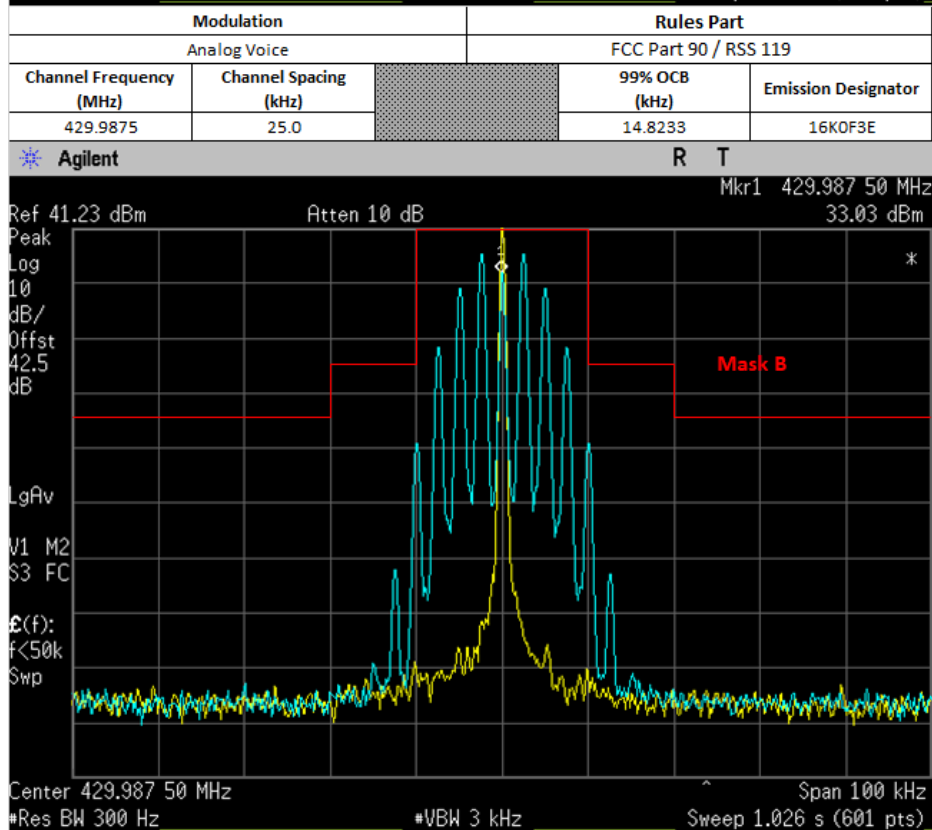
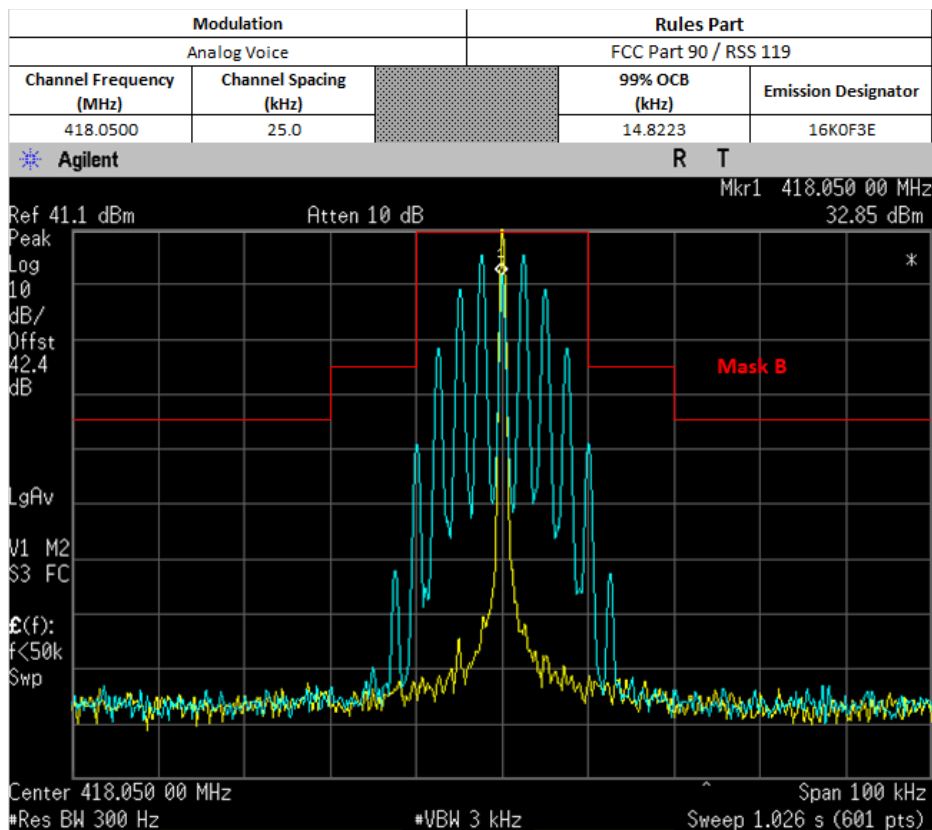
* Only HPF added for Mask 80.211 measurement with attenuator.

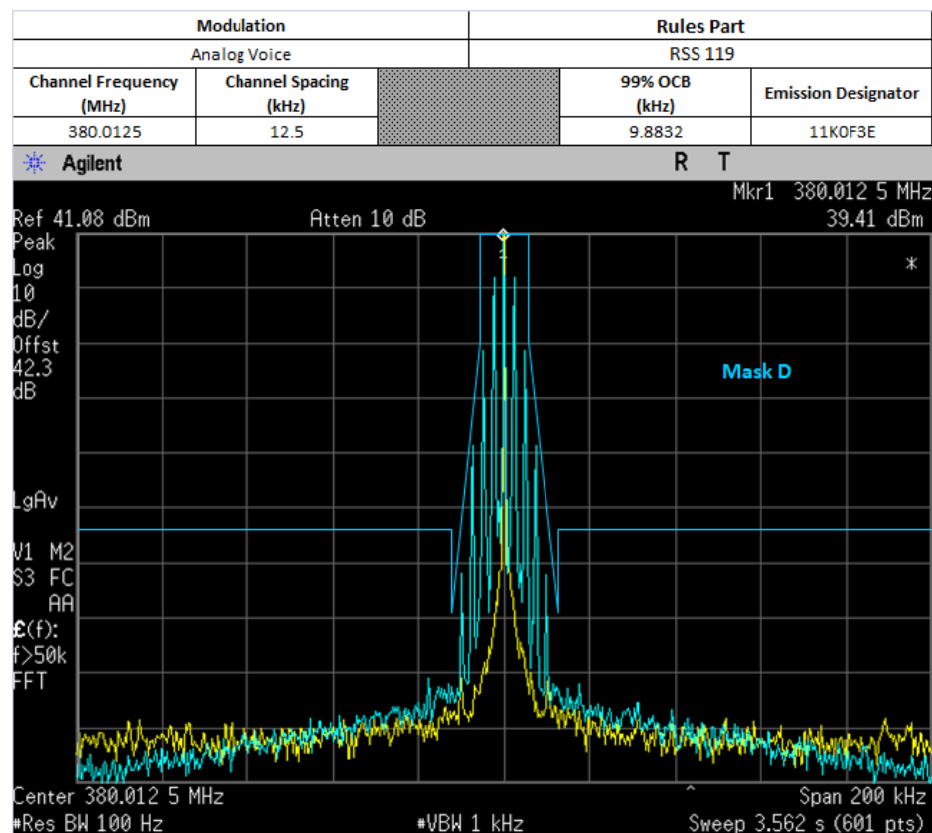
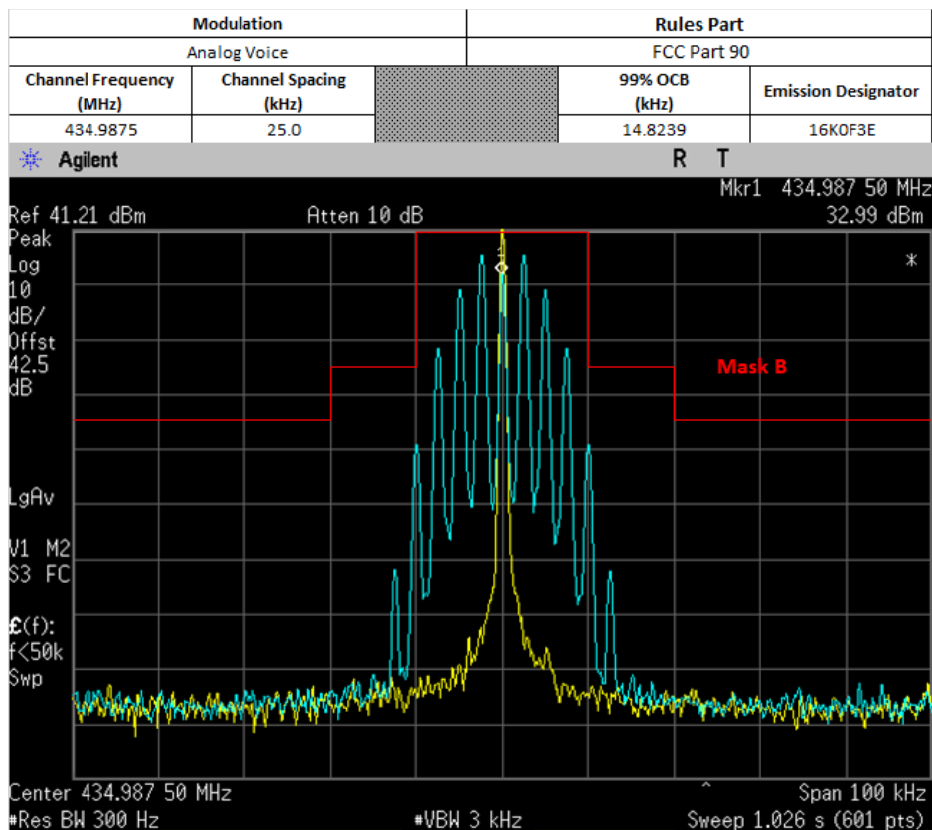
6.6.2. Test Result (Analog)



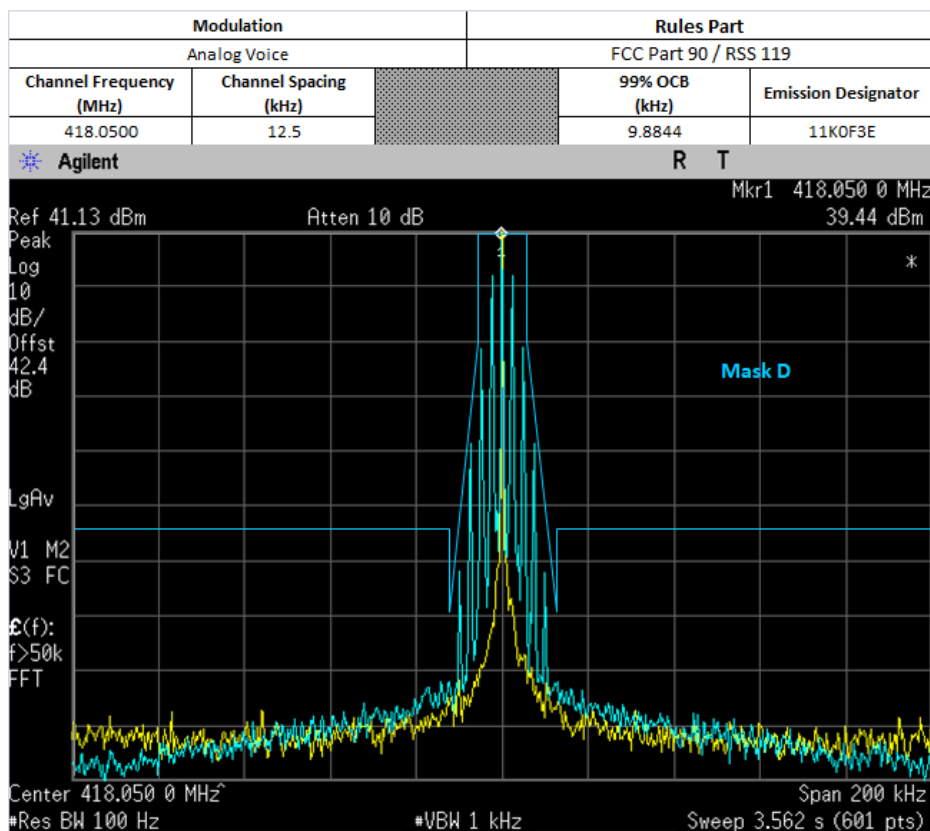
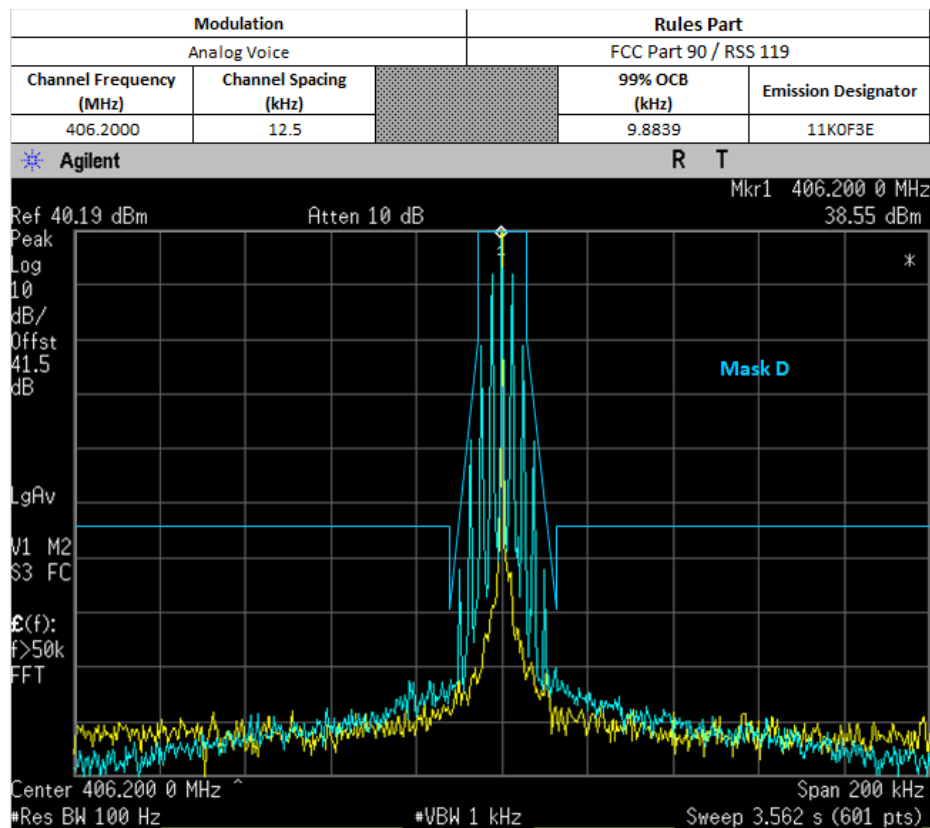
Not For FCC Review

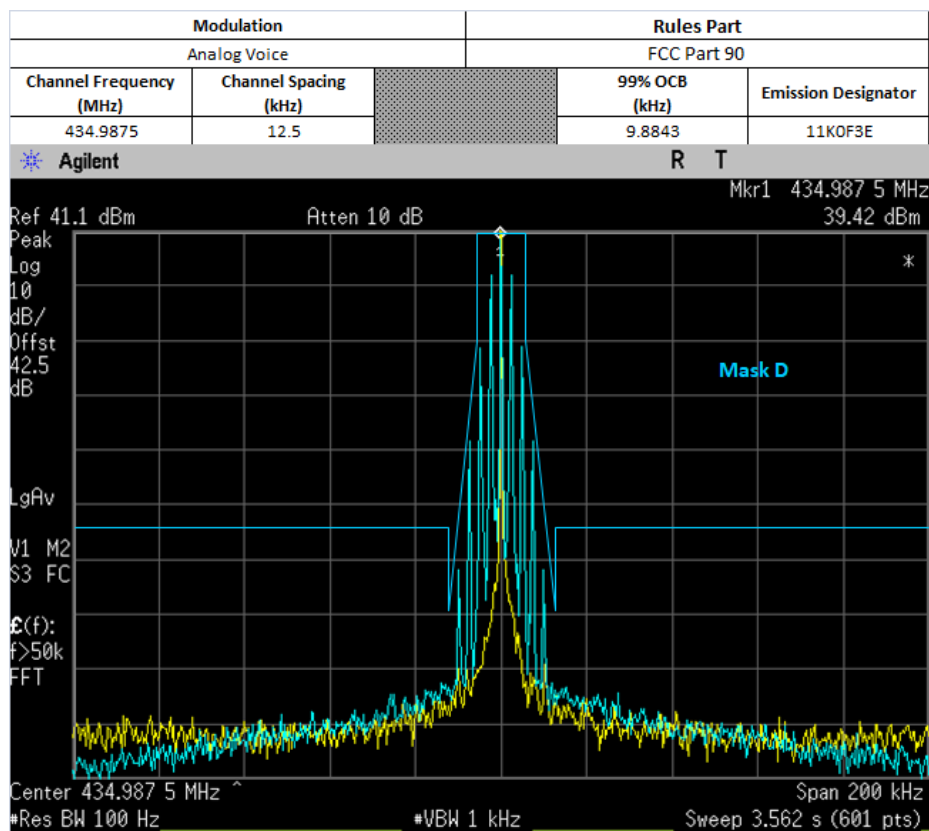
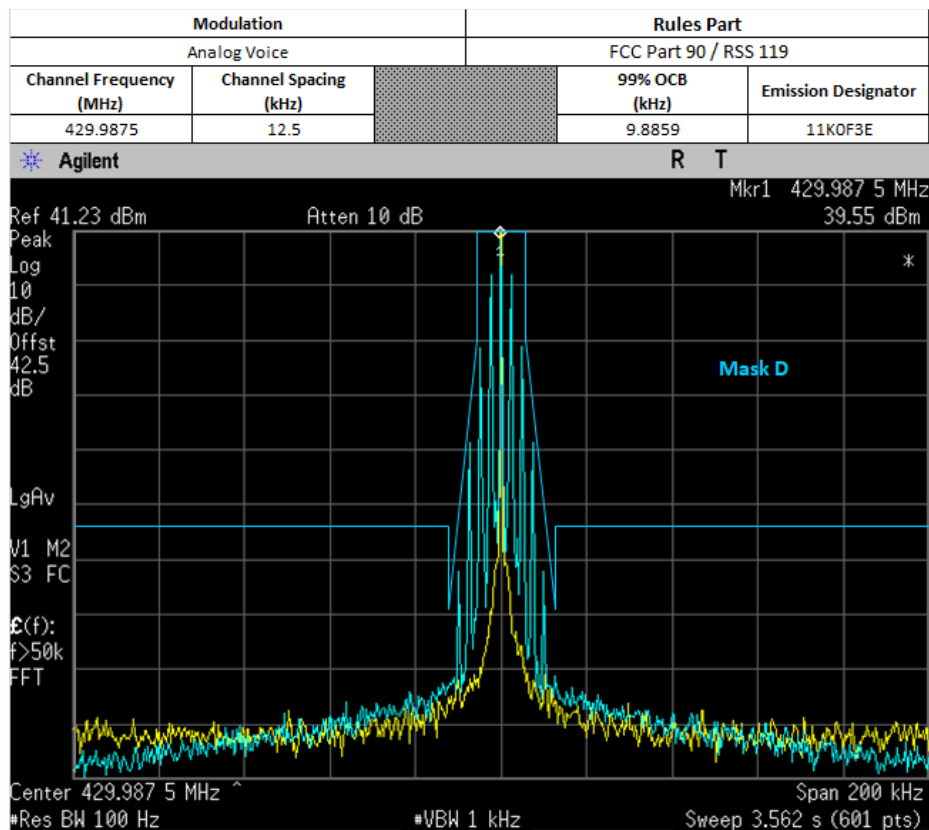




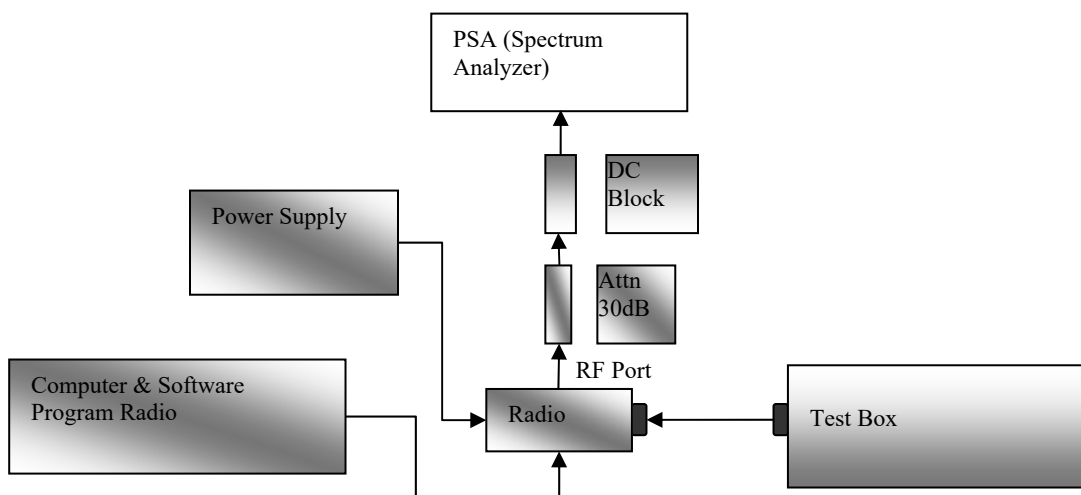


Not For FCC Review





6.6.3. Test Setup (Digital)

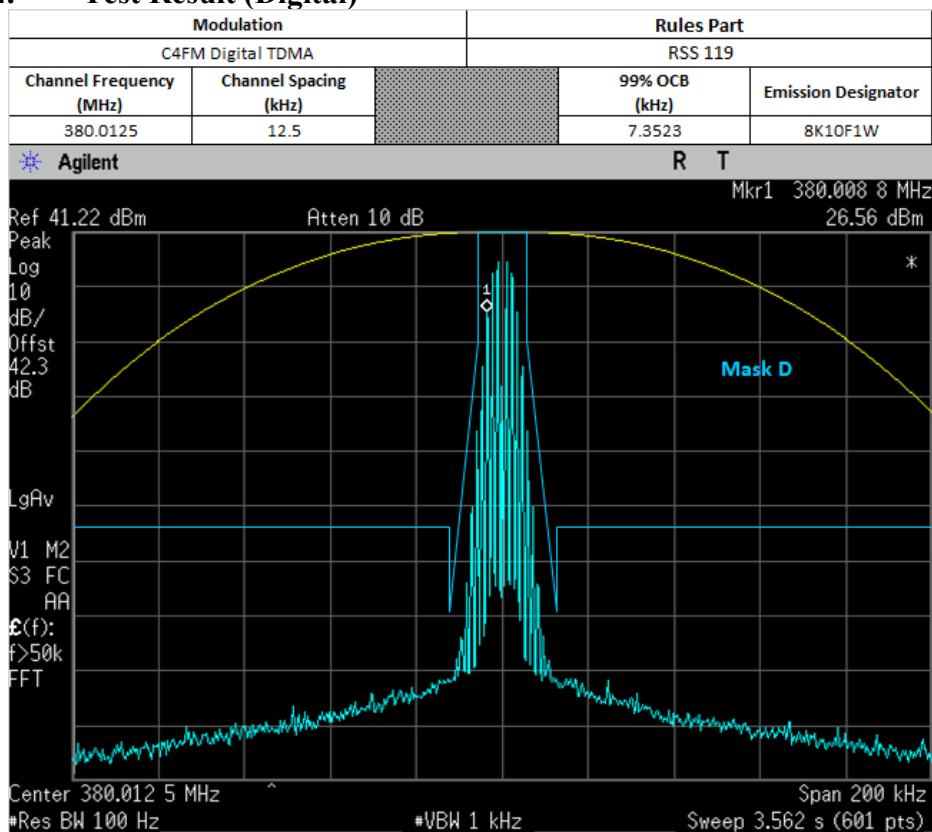


- 1) Program and set radio to operate in desire test frequency and digital mode with modulation. (*4FSK, C4FM or other digital modulation form).
- 2) Path loss for the measurement included.
- 3) Select the Occupied Bandwidth measurement for 99% Emissions Bandwidth Measurement.
- 4) Key in the Fc and Resolution Bandwidth (1 ~ 5 % of emission designator).
- 5) Transmit the DUT and record the occupied Bandwidth frequency.
- 6) Preset the spectrum analyzer for modulation emission spectrum measurement.
- 7) Set the span and Resolution Bandwidth (according to FCC/ ISED standard).
- 8) Capture the screen shot as modulated signal.

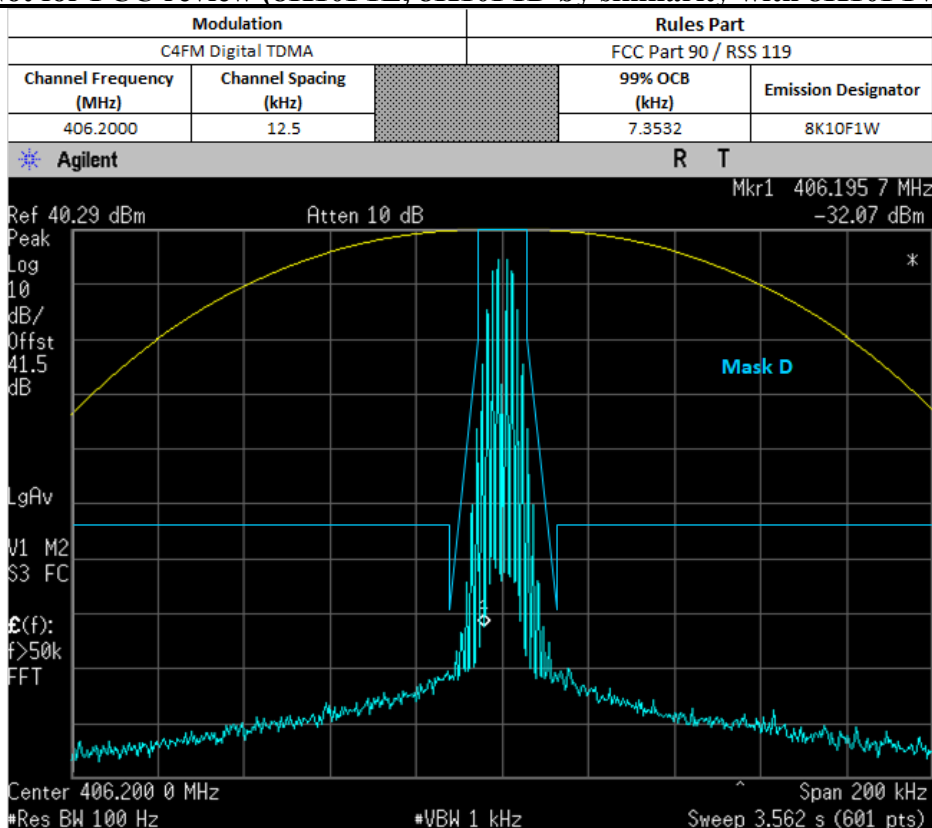
*Note:

- For Digital Modulation, 12.5 kHz Data F1D & FXD would be the same. Therefore only measurements with F1D modulation shown below.
- For Digital Modulation, 12.5 kHz Data F1E & FXE would be the same. Therefore only measurements with F1E modulation shown below.

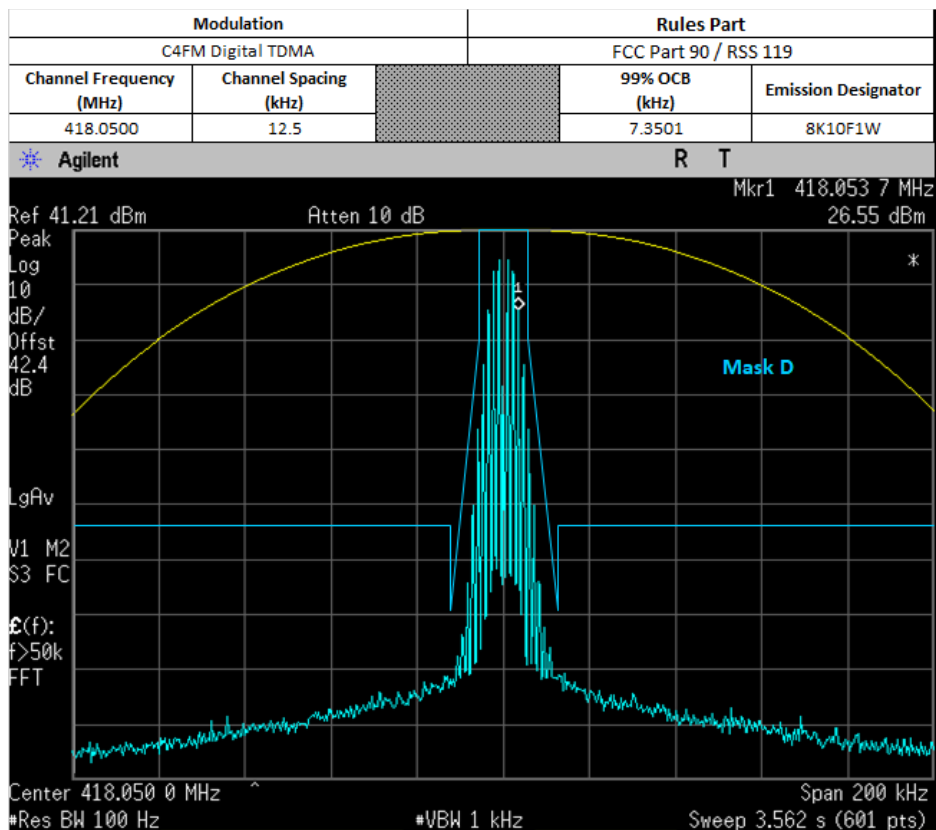
6.6.4. Test Result (Digital)



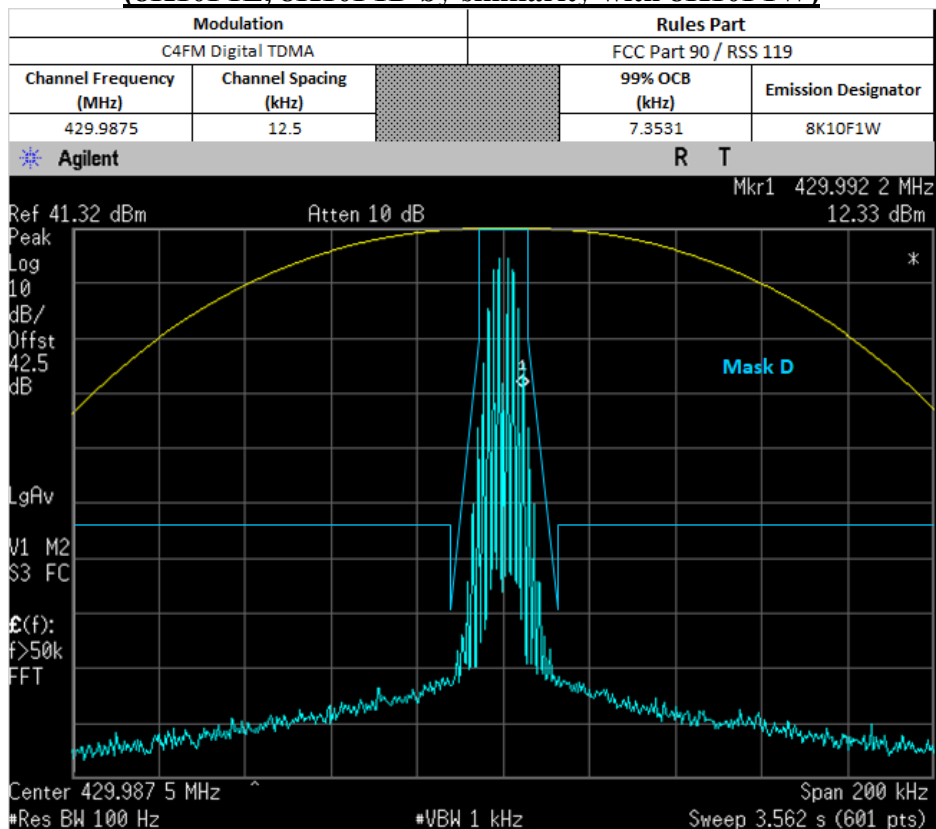
Not for FCC review (8K10F1E, 8K10F1D by similarity with 8K10F1W)



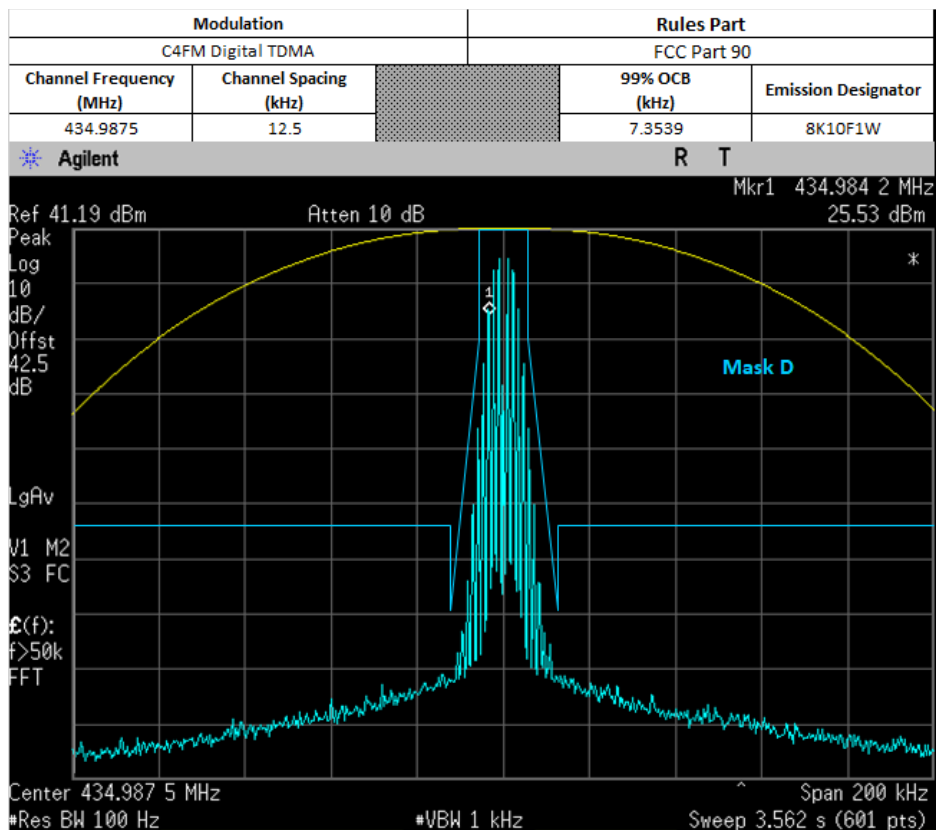
(8K10F1E, 8K10F1D by similarity with 8K10F1W)



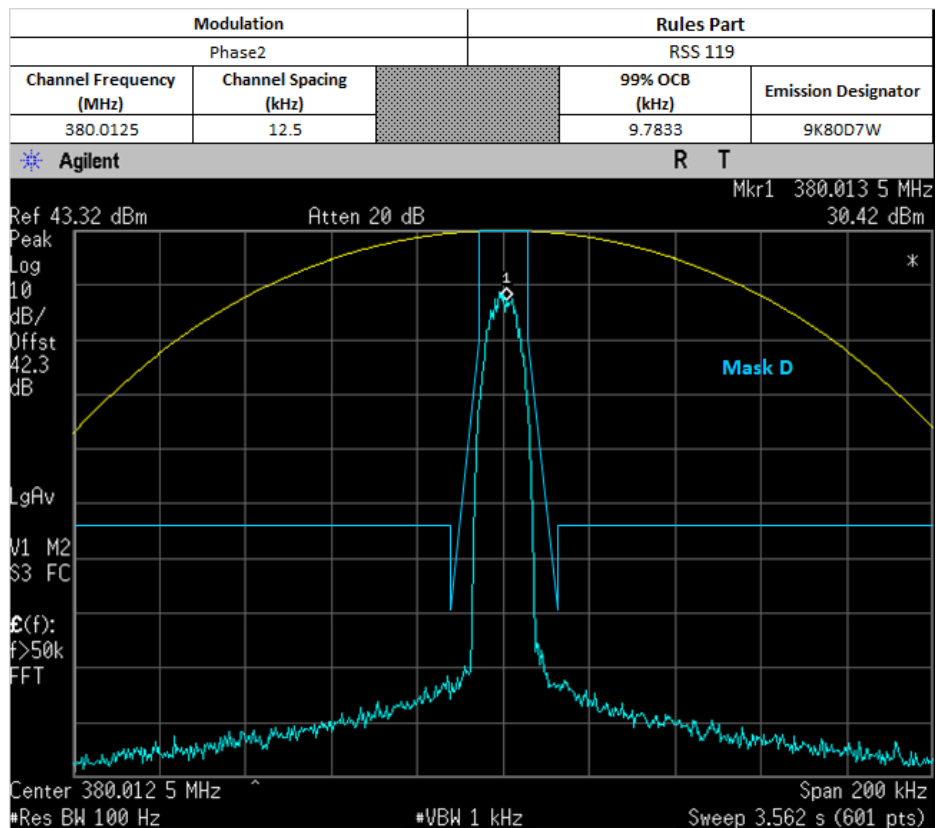
(8K10F1E, 8K10F1D by similarity with 8K10F1W)



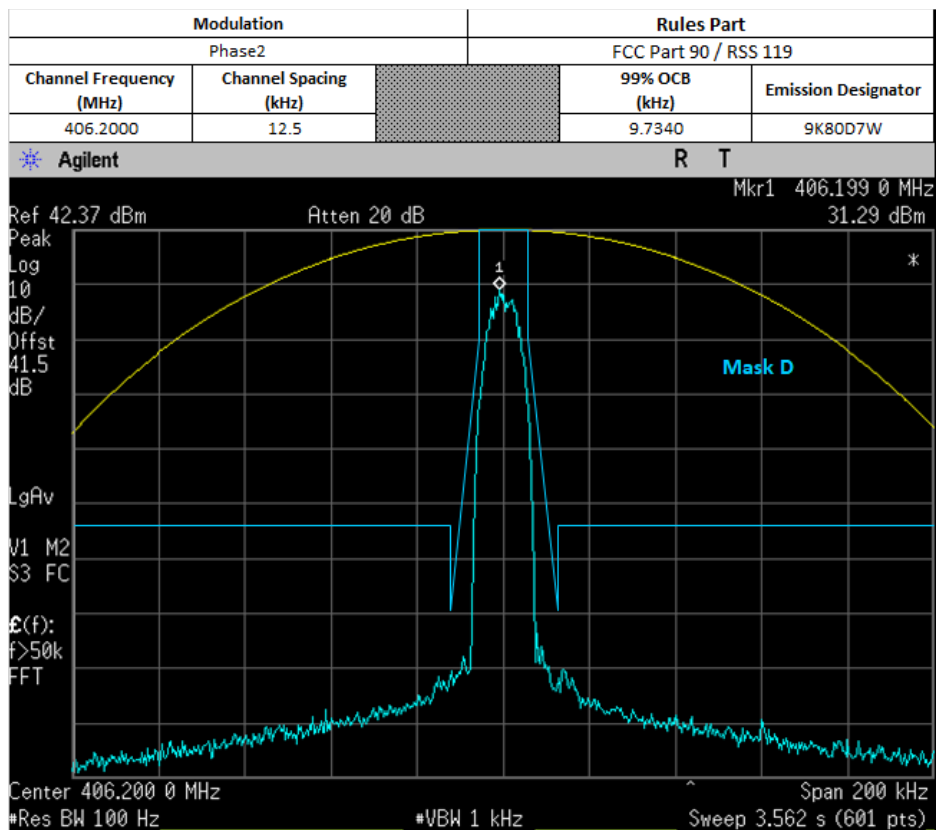
(8K10F1E, 8K10F1D by similarity with 8K10F1W)



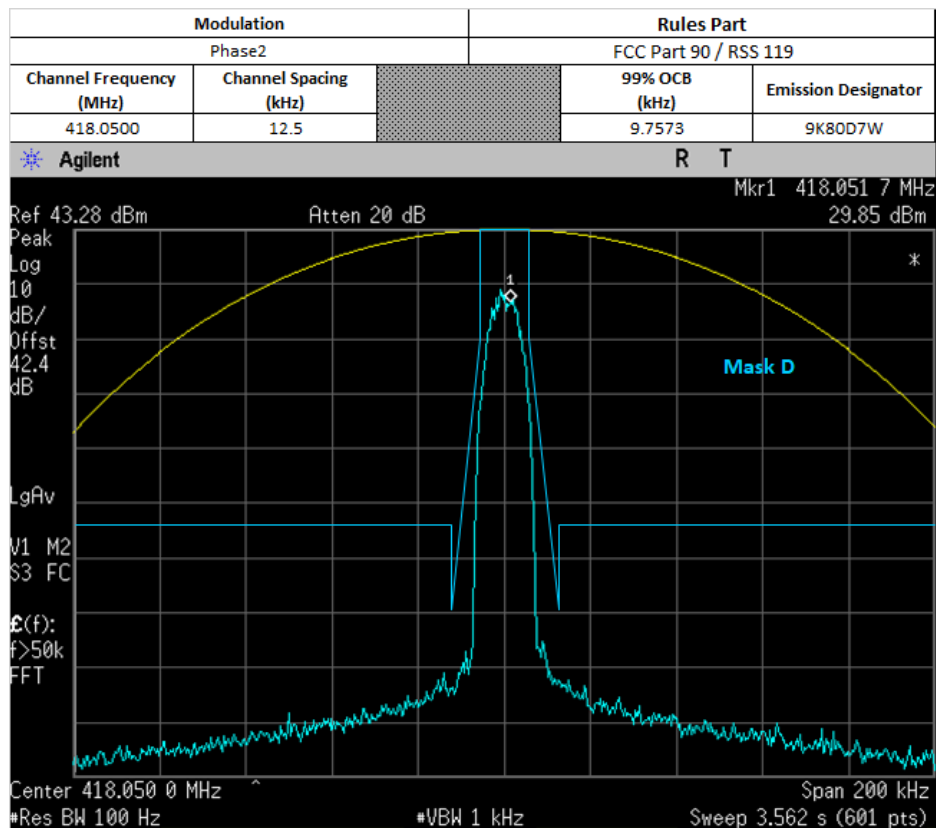
(8K10F1E, 8K10F1D by similarity with 8K10F1W)



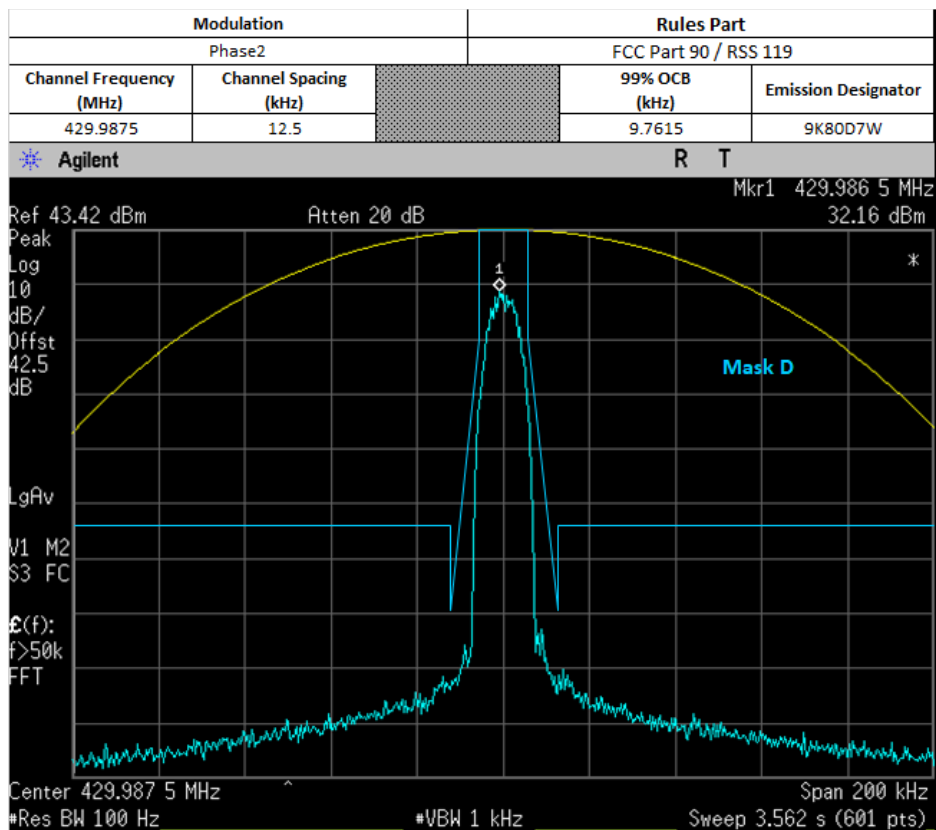
Not for FCC review (9K80D7E, 9K80D7D by similarity with 9K80D7W)



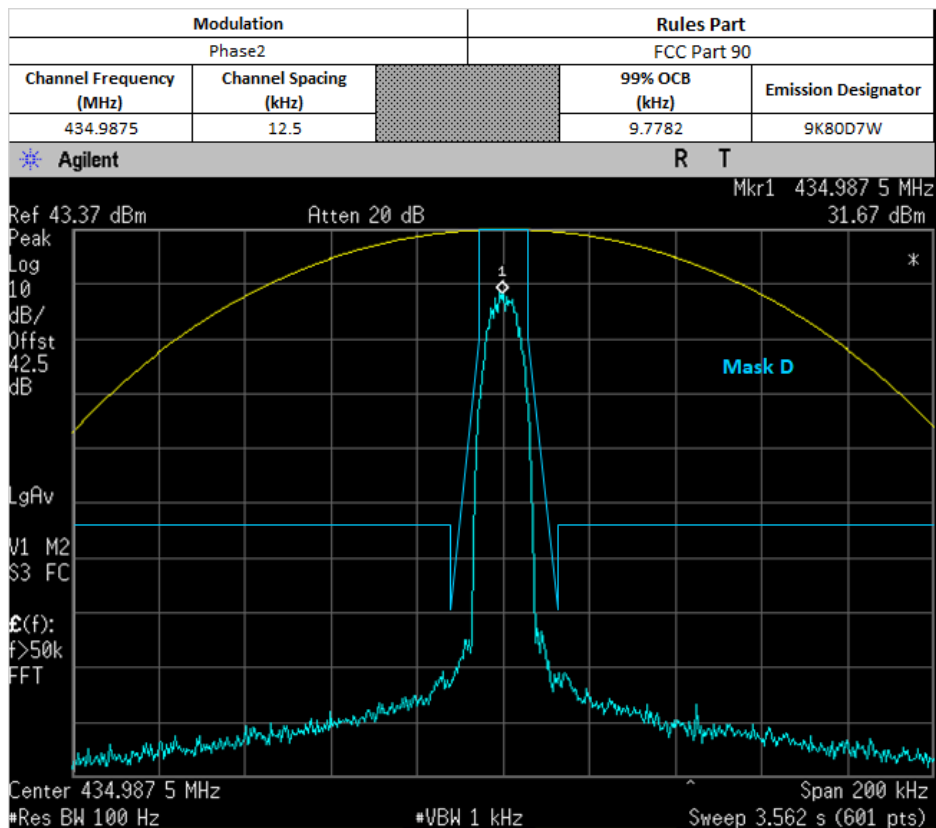
(9K80D7E, 9K80D7D by similarity with 9K80D7W)



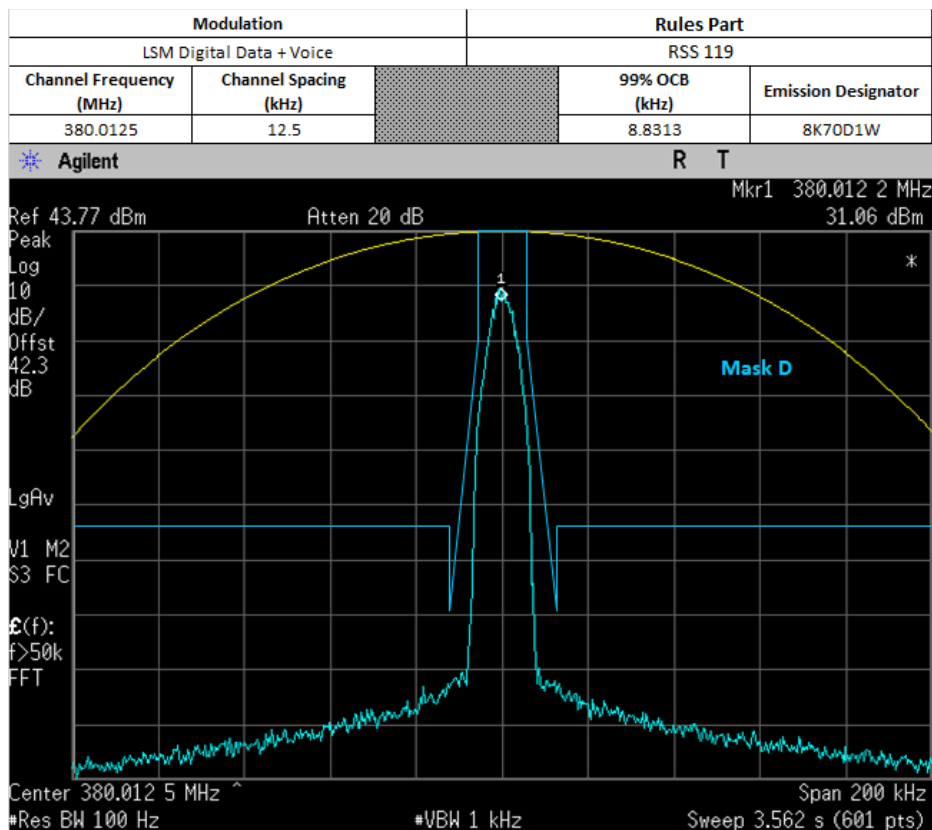
(9K80D7E, 9K80D7D by similarity with 9K80D7W)



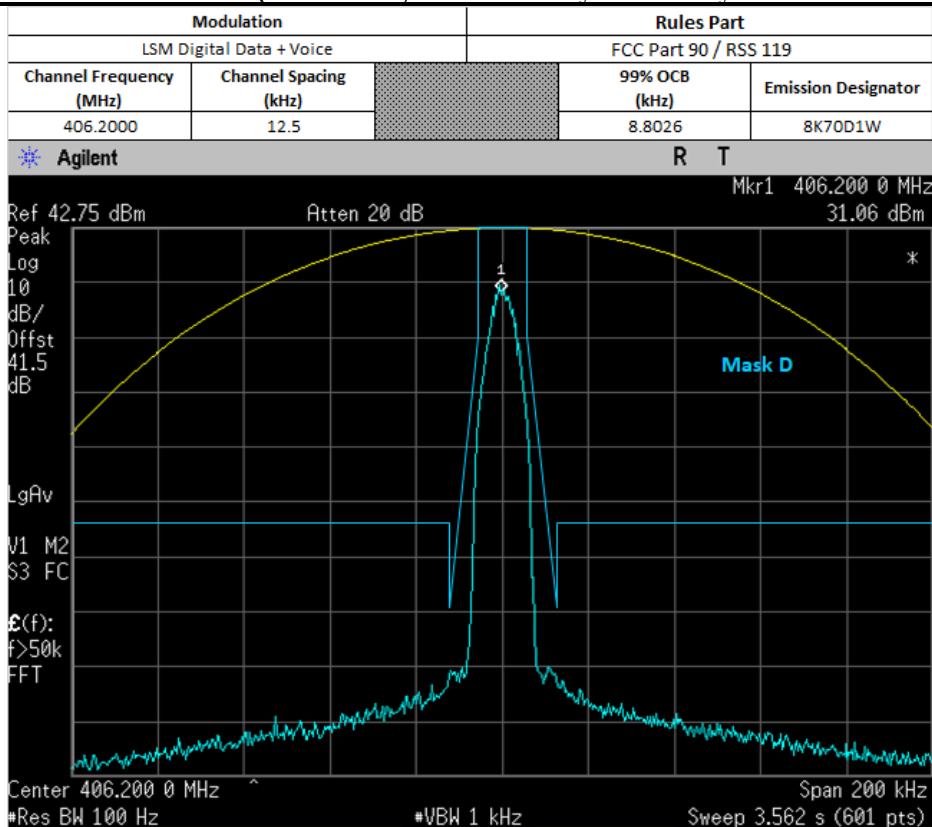
(9K80D7E, 9K80D7D by similarity with 9K80D7W)



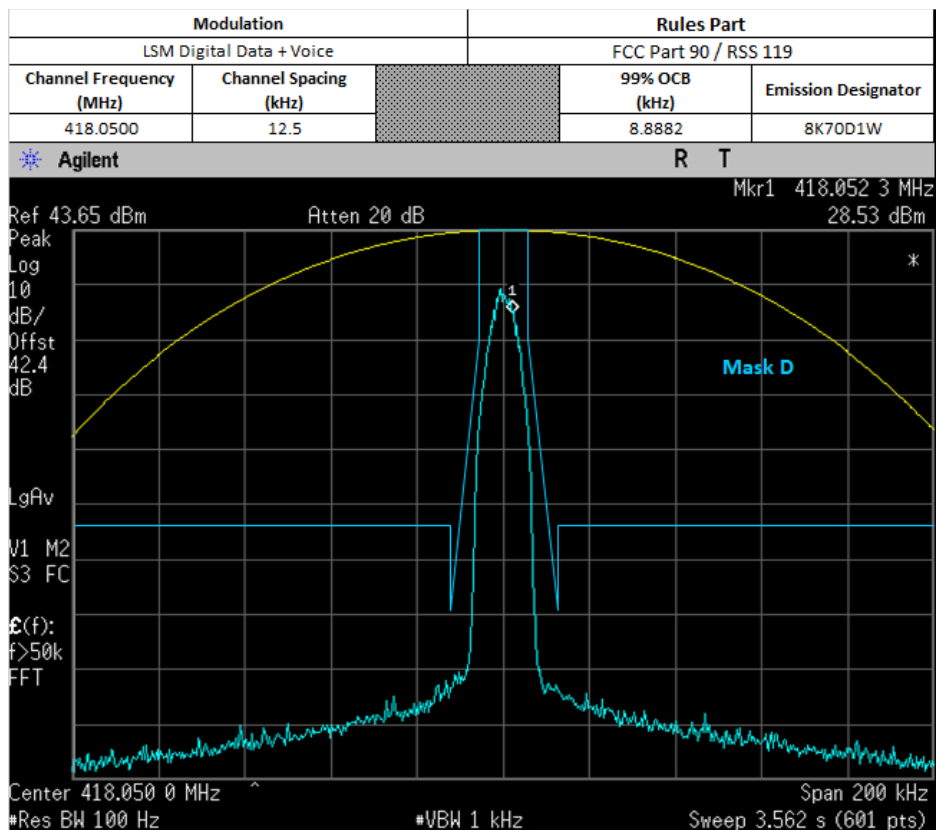
(9K80D7E, 9K80D7D by similarity with 9K80D7W)



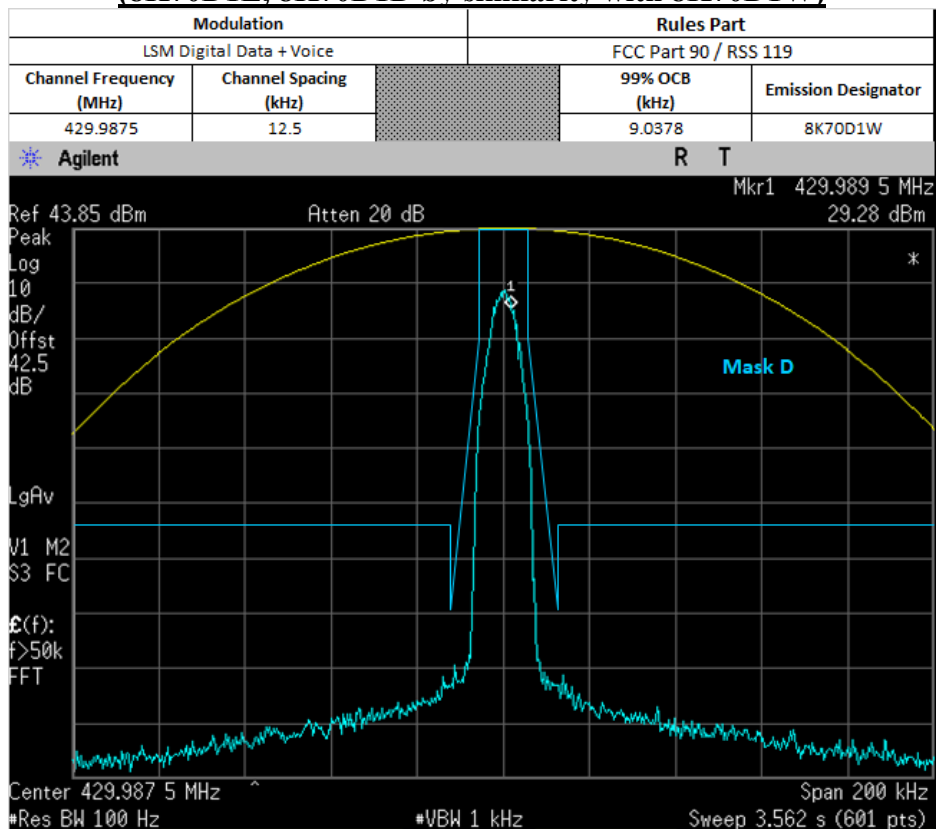
Not for FCC review (8K70D1E, 8K70D1D by similarity with 8K70D1W)



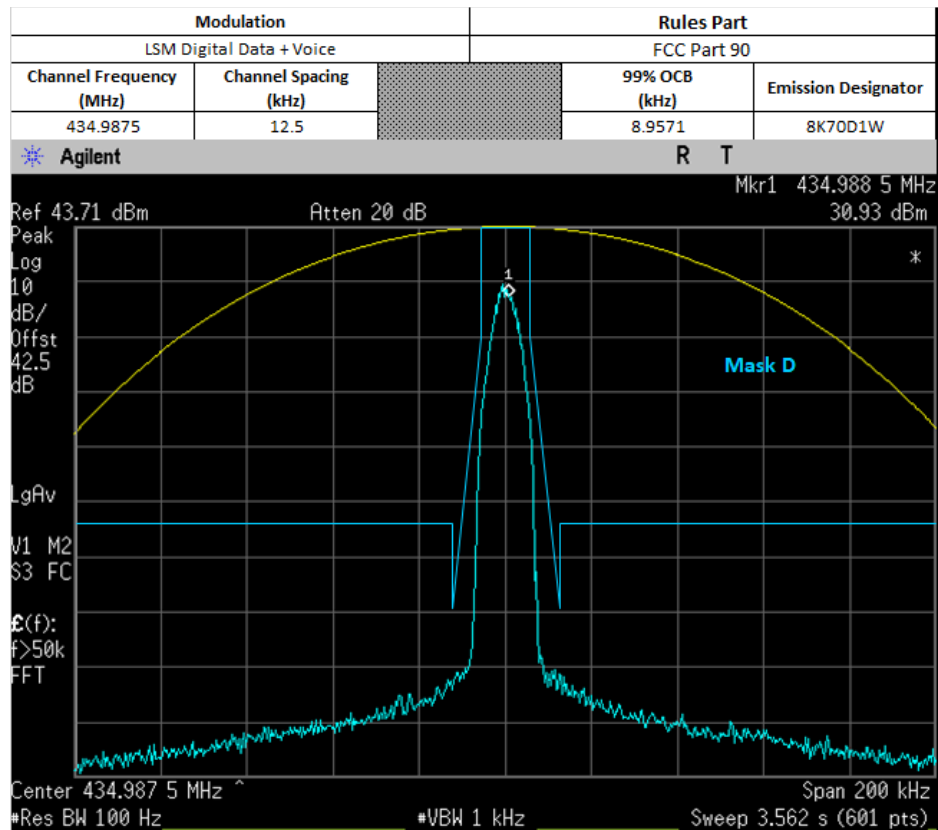
(8K70D1E, 8K70D1D by similarity with 8K70D1W)



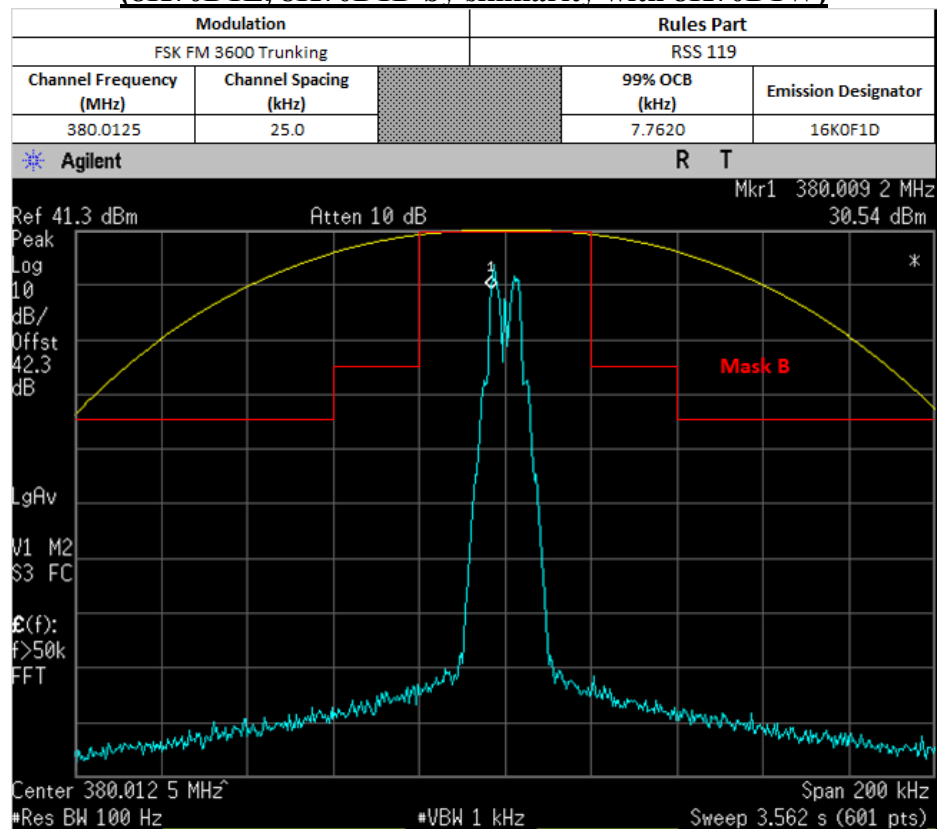
(8K70D1E, 8K70D1D by similarity with 8K70D1W)



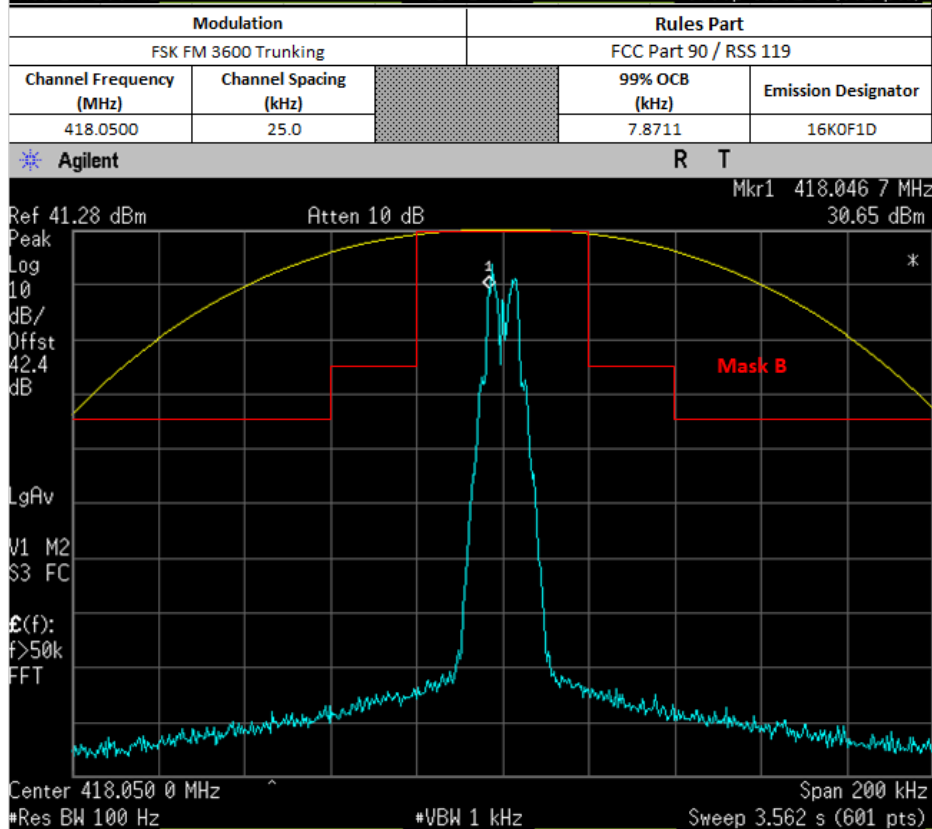
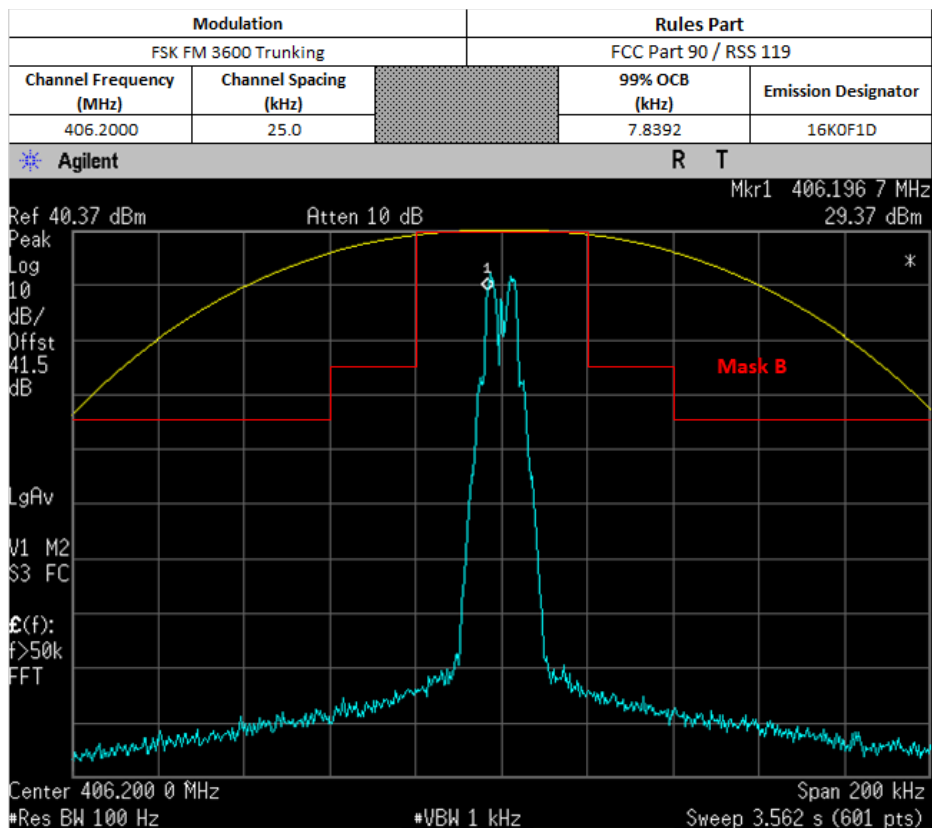
(8K70D1E, 8K70D1D by similarity with 8K70D1W)

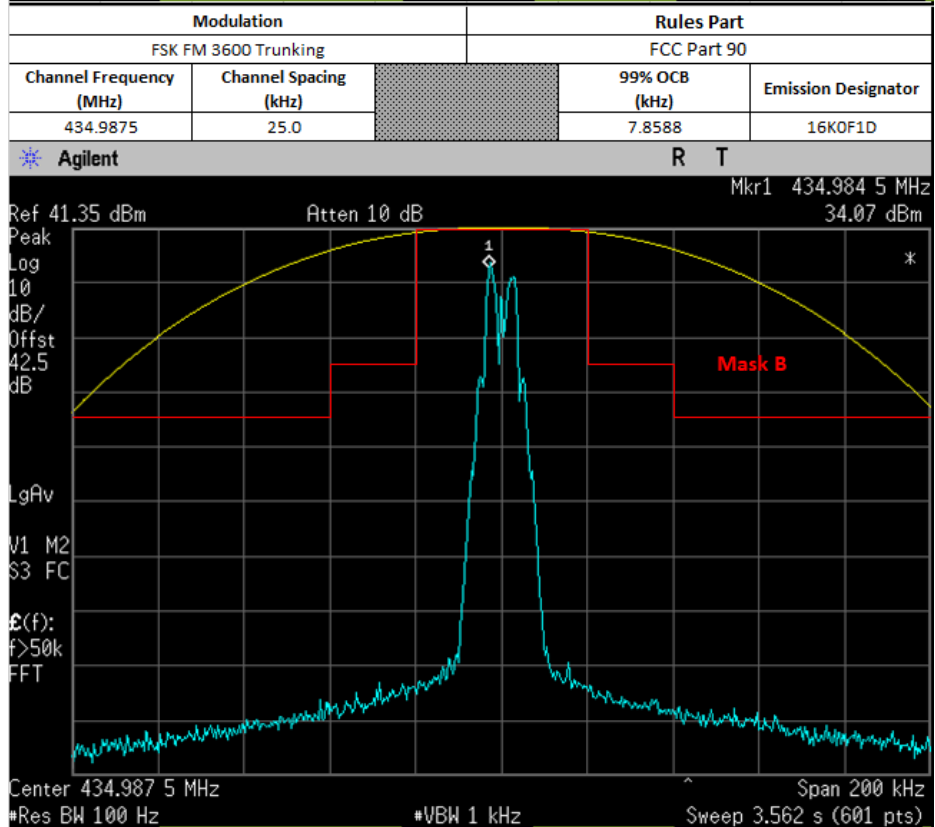
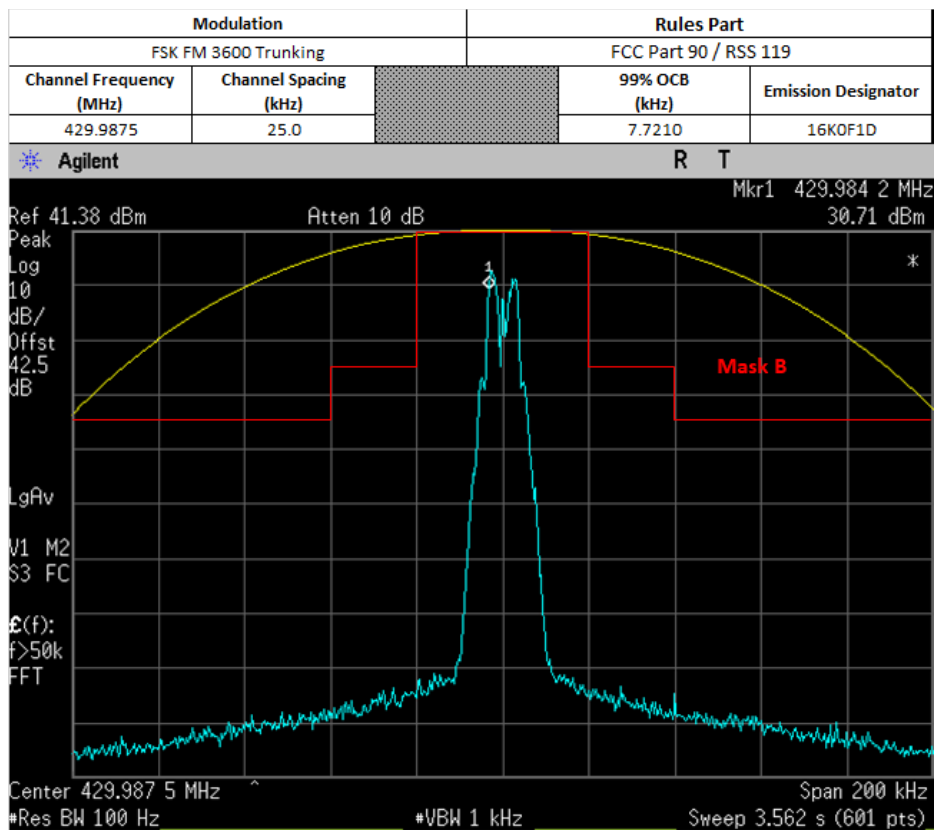


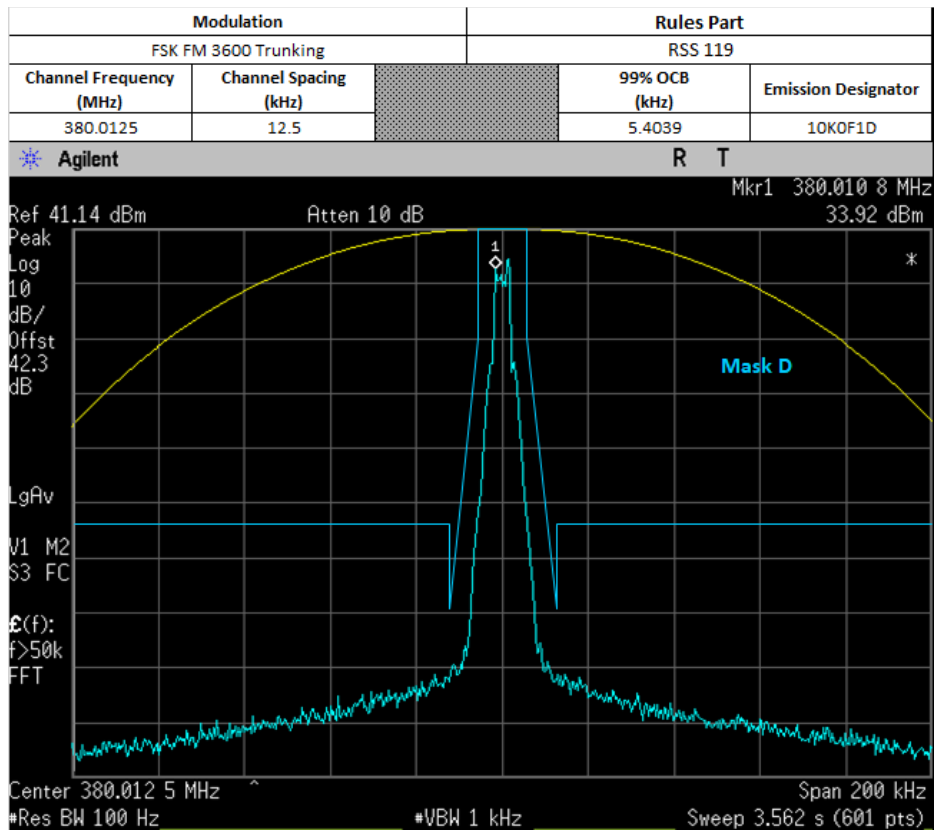
(8K70D1E, 8K70D1D by similarity with 8K70D1W)



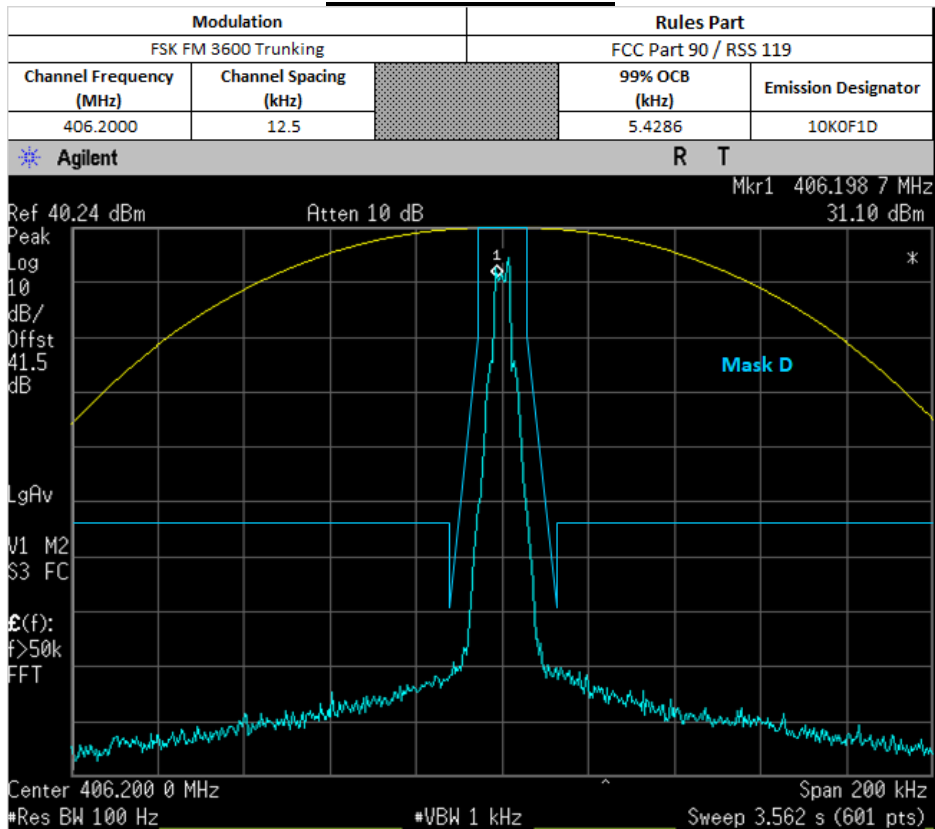
Not For FCC Review

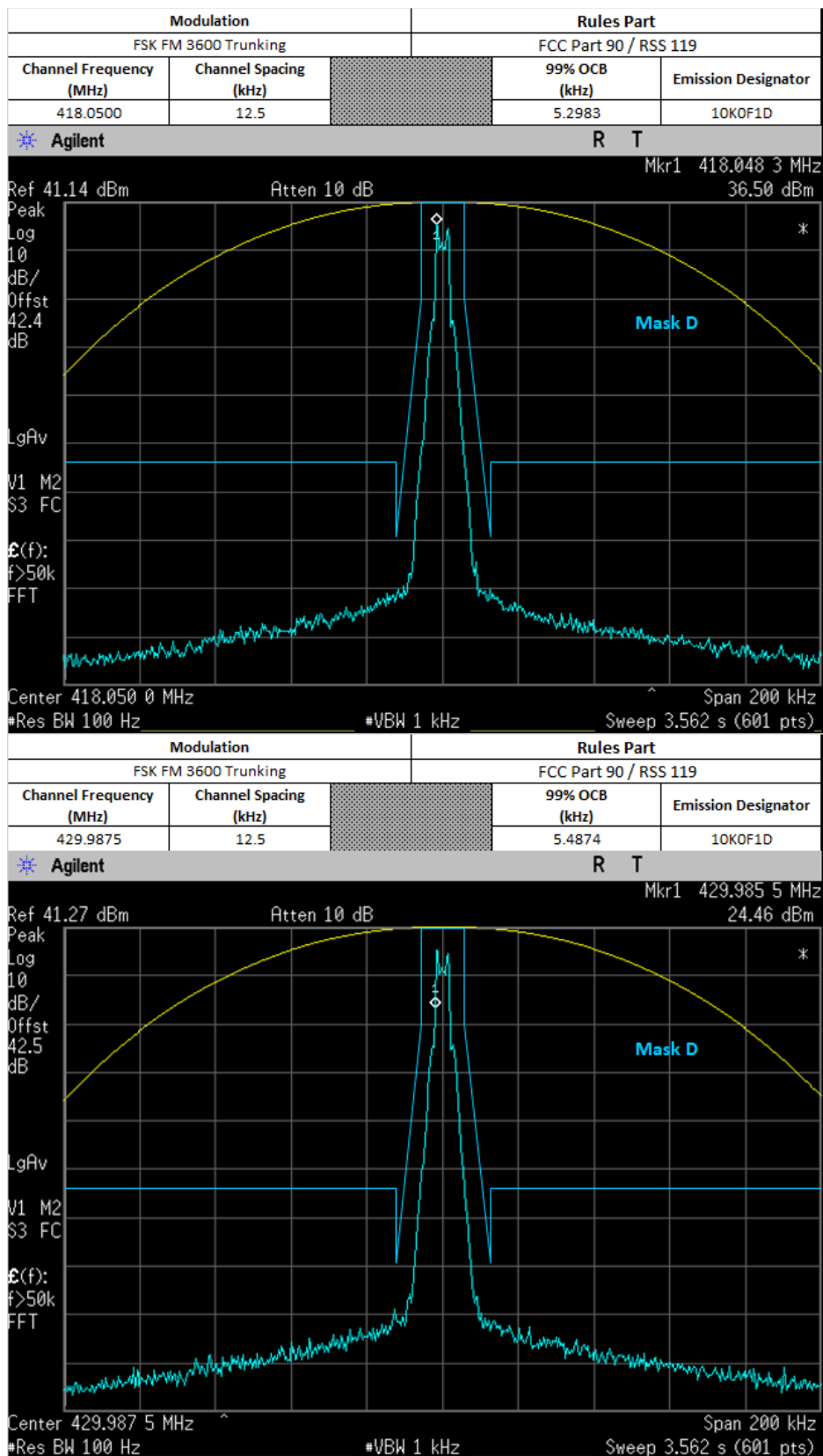


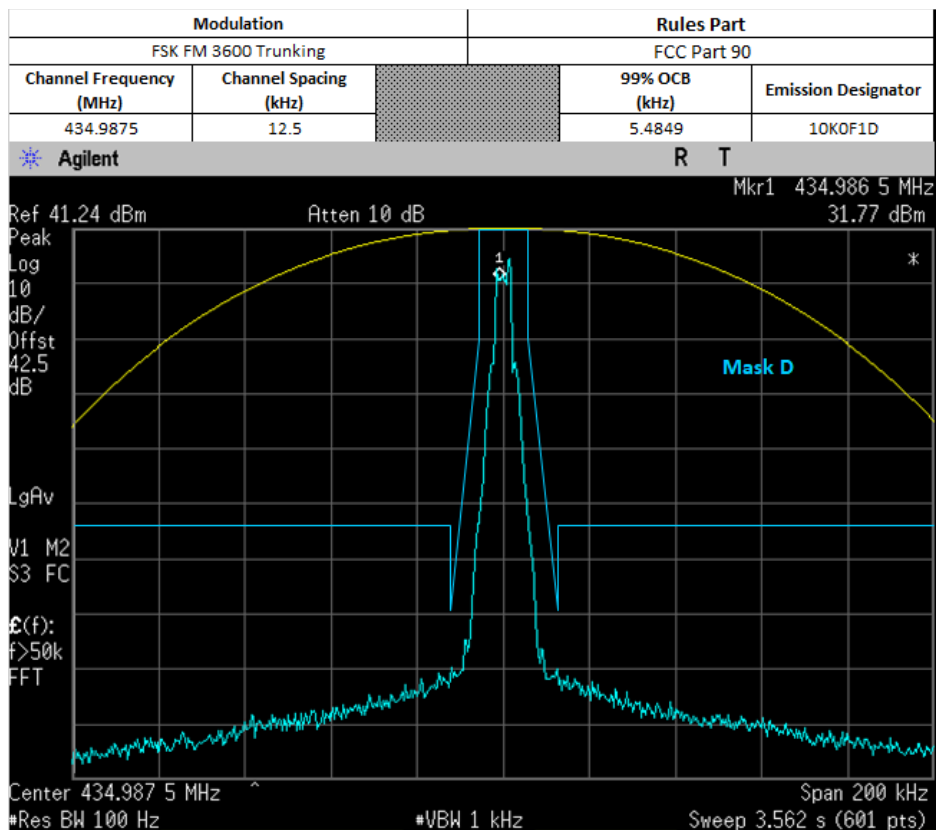




Not For FCC Review





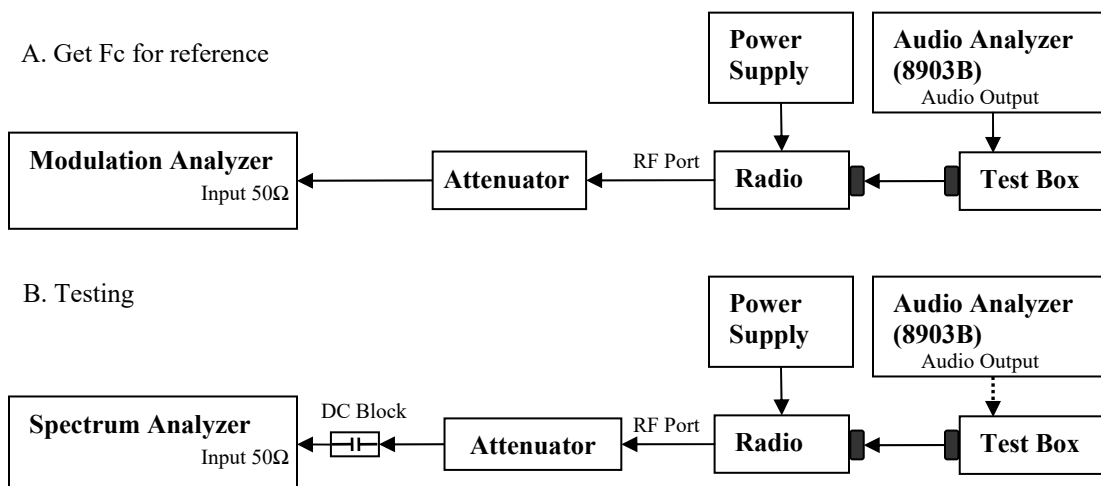


6.6.5. Test Limit

The 99% occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

6.7. Band Edge Conducted Spurious Emission (Part 22)

6.7.1. Test Setup (Analog)



- 2) The DUT transmitter output port was connected to Modulation Analyzer.
- 3) Set the audio bandwidth filter to 15 kHz low pass filter and 50 kHz high pass filter.
- 4) Transmit the radio and set the audio analyzer to 2.5 kHz audio frequency and 50% of the rated deviation. Up the amplitude by 16 dB. Dekey the DUT.
- 5) Path loss for the measurement included.
- 6) Select the Occupied Bandwidth measurement for 99% and 26dB Emissions Bandwidth Measurement.
- 7) Key in the Fc and Resolution Bandwidth.
- 8) Transmit the DUT and record the occupied Bandwidth frequencies.
- 9) Preset the spectrum analyzer for band edge measurement.
- 10) The band edges of lowest and highest channels were measured.
- 11) Key in the Lowest and highest channel frequency, span is 60 kHz and Resolution Bandwidth is at least 1% of Emission Bandwidth.
- 12) Save the screen shot as modulated signal.
- 13) Remove the audio tone from audio analyzer to capture unmodulated signal.

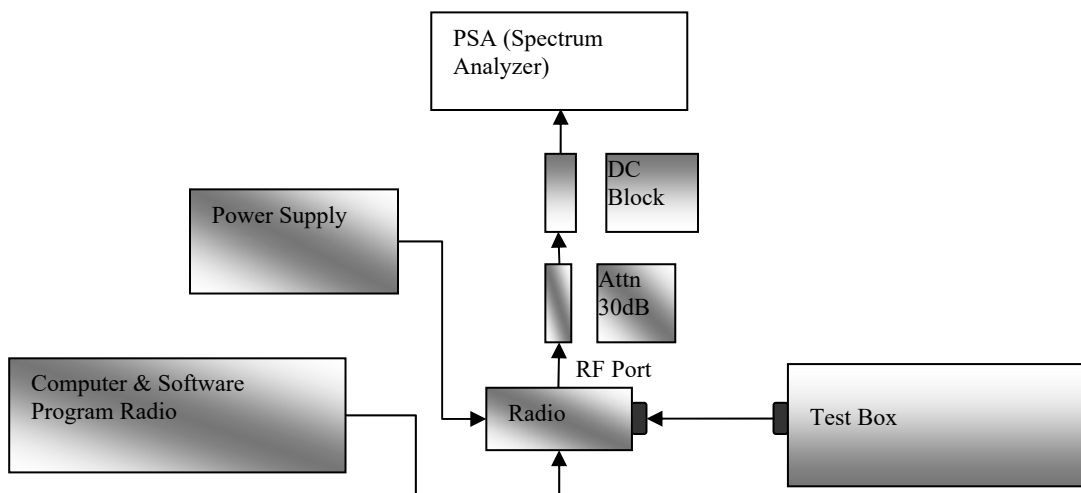
*Note:

- For emission designator ending with F3E, 16K0F3E is the worst case and therefore only 16K0F3E will be shown.

6.7.2. Test Result (Analog)

Not Applicable

6.7.3. Test Setup (Digital)



- 1) Program and set radio to operate in desire test frequency and digital mode with modulation. (*4FSK, C4FM or other digital modulation form).
- 2) Path loss for the measurement included.
- 3) Select the Occupied Bandwidth measurement for 99% and 26dB Emissions Bandwidth Measurement.
- 4) Key in the Fc and Resolution Bandwidth.
- 5) Transmit radio record the occupied Bandwidth frequencies.
- 6) Preset the spectrum analyzer for band edge measurement.
- 7) Key in the lowest and highest channels frequency, span is 60 kHz and Resolution Bandwidth is at least 1% of Emission Bandwidth.
- 8) Save the screen shot.

*Note:

- For Digital Modulation, 12.5 kHz Data F1D & FXD would be the same. Therefore only measurements with F1D modulation shown below.
- For Digital Modulation, 12.5 kHz Data F1E & FXE would be the same. Therefore only measurements with F1E modulation shown below.

6.7.4. Test Result (Digital)

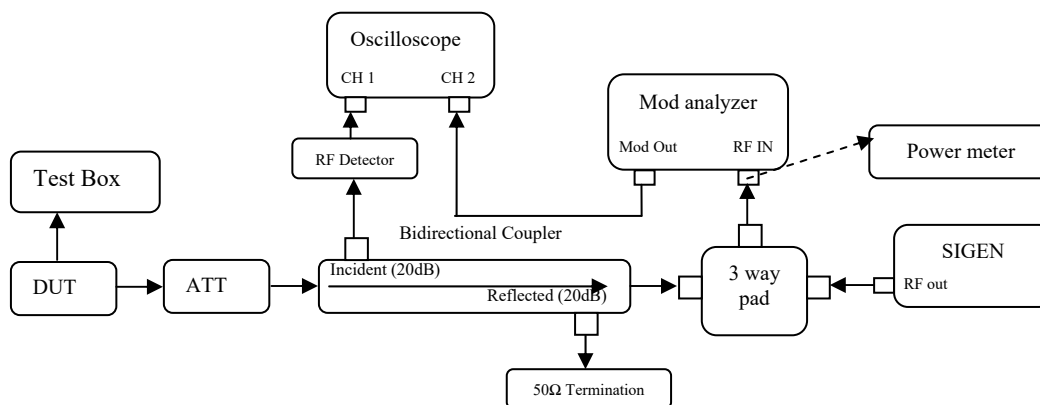
Not Applicable

6.7.5. Test Limit

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

6.8. Transient Frequency Behavior

6.8.1. Test Setup

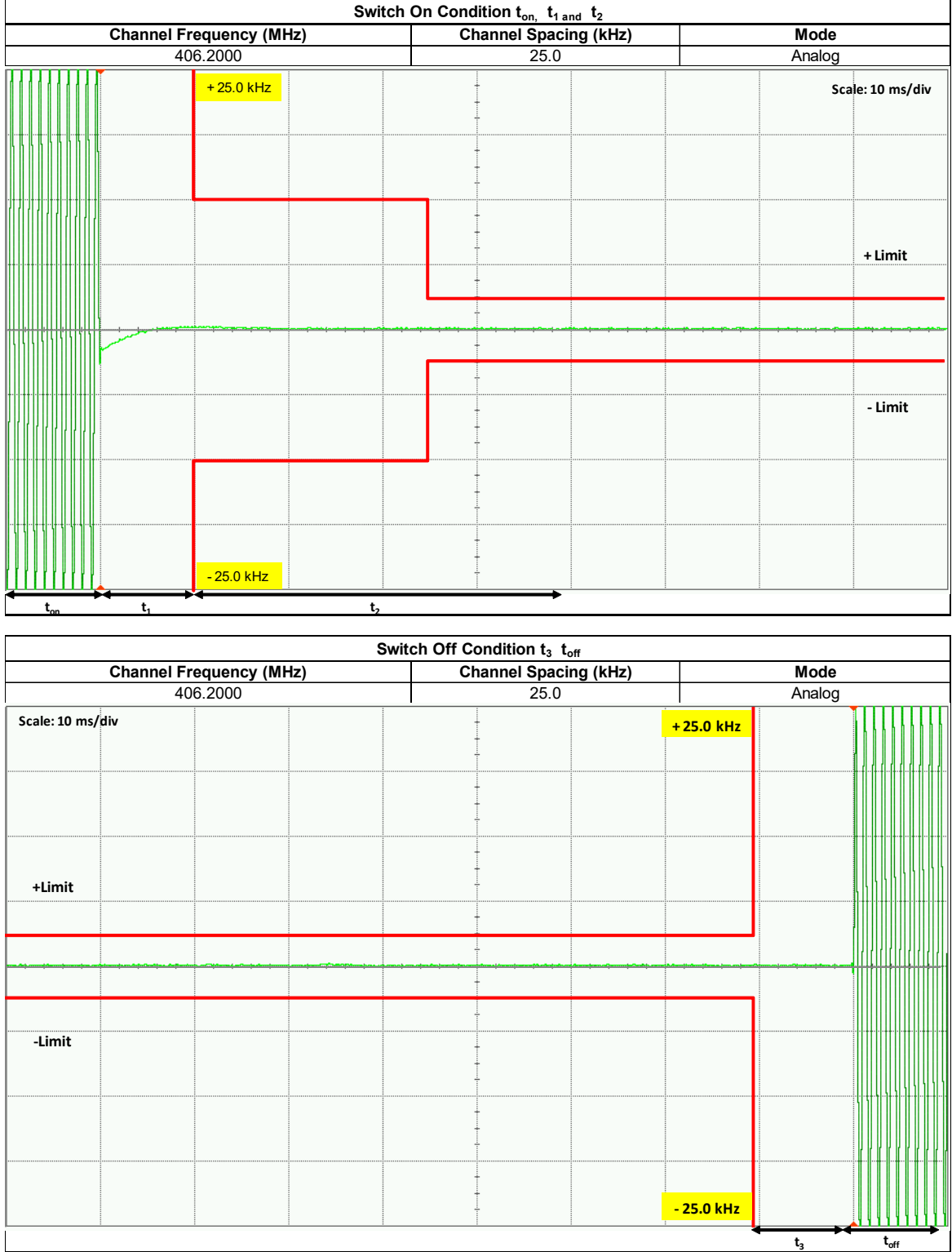


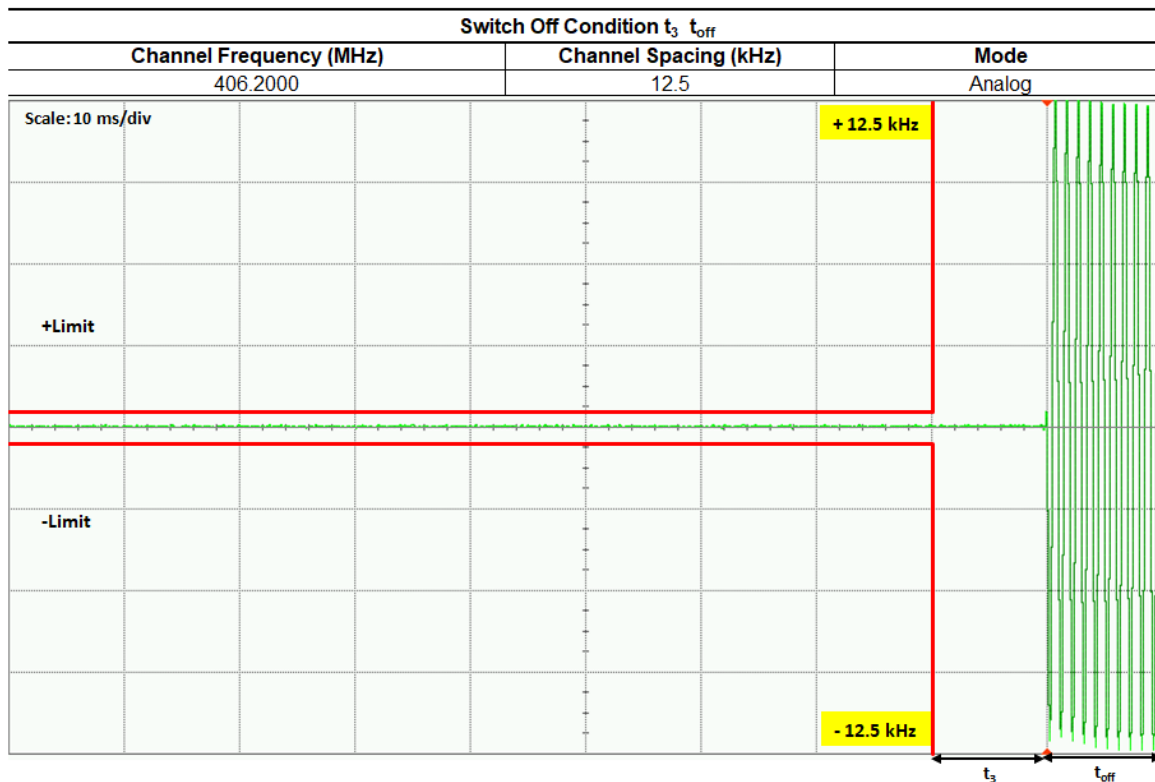
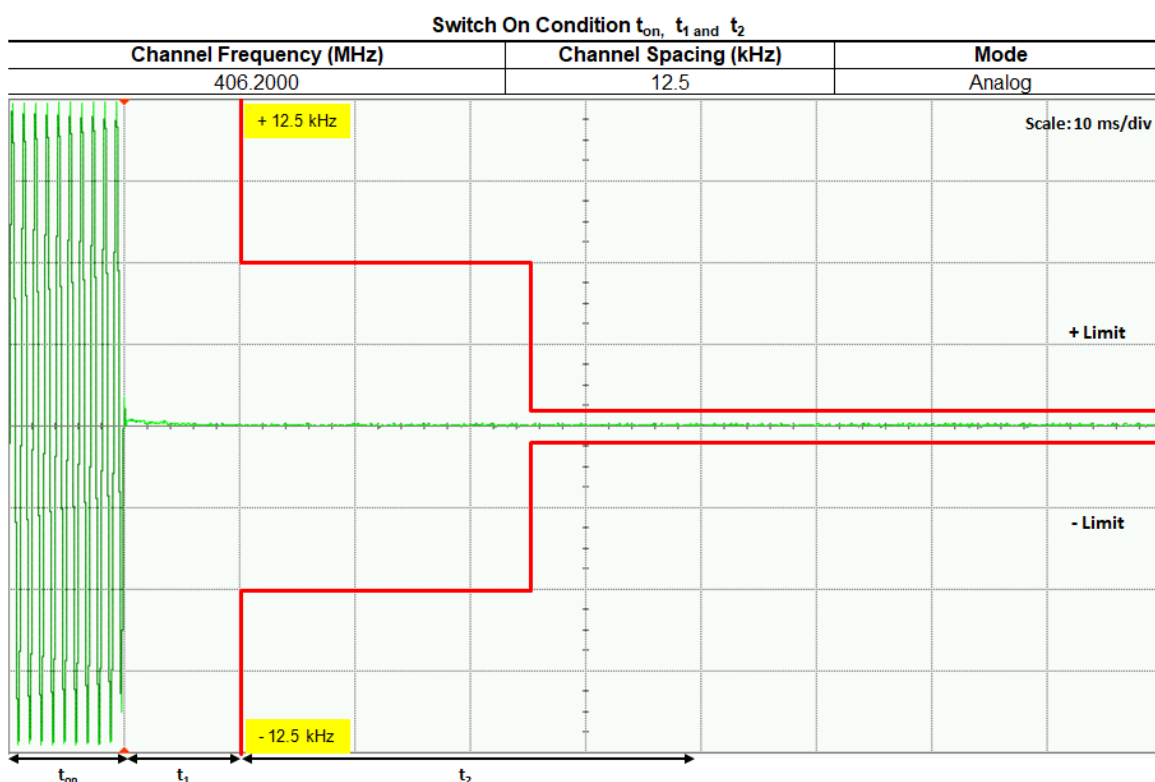
- 1) Connect the setup as figure above.
- 2) Path loss for the measurement included.
- 3) Set on Siggen with the assigned center frequency, internal 1 kHz FM tone.
FM Deviation: Analog 25kHz Channel Spacing = 25 kHz
Analog 12.5 kHz Channel Spacing = 12.5 kHz
C4FM = 12.5 kHz
- 4) Turn on 50 kHz high pass filter and 15 kHz low pass filter on modulation analyzer.
- 5) Supply sufficient attenuation ATT to provide the output power of $\leq -11\text{dBm}$ into power meter when DUT is keying up.
- 6) Note the power level on power meter and dekey the DUT.
- 7) Adjust the amplitude of the signal generator to the level power meter, maintained the amplitude throughout the rest of the measurement.
- 8) Connect the output to modulation analyzer.
- 9) Reduce 30dB attenuation and transmit the radio to get the trigger line.
- 10) Capture the screen shot for key-up (rising edge) and de-key (falling edge) mode.

6.8.2. Test Result

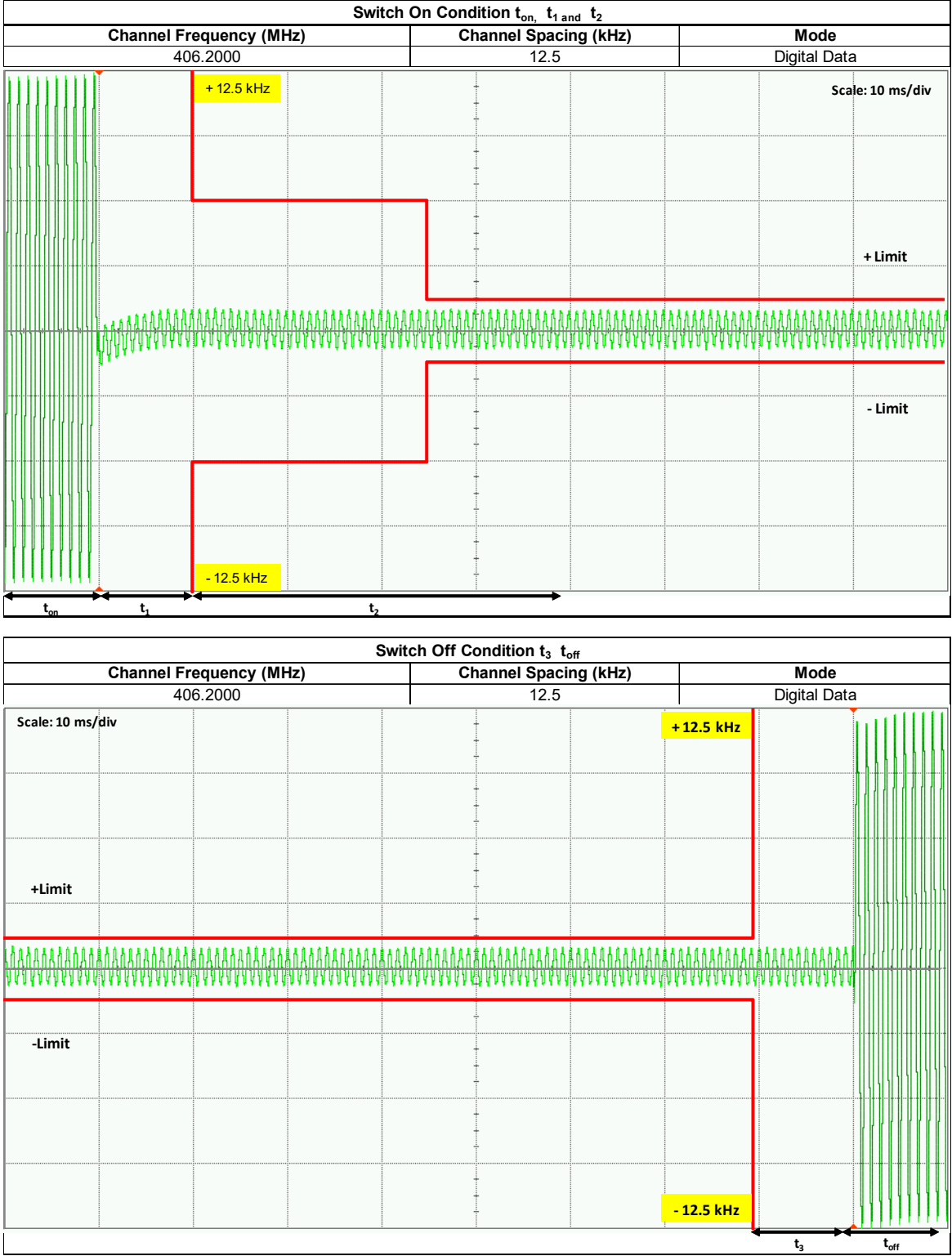
Ac 240V

Analog Voice





Digital Data



6.8.3. Test Limit

Transmitters designed to operate in the 150-174 MHz and 421-512 MHz frequency bands must maintain transient frequencies within the maximum frequency difference limits during the time intervals indicated:

Time intervals ^{1 2}	Maximum frequency difference ³	All equipment	
		150 to 174 MHz	421 to 512 MHz
Transient Frequency Behavior for Equipment Designed to Operate on 25 kHz Channels			
t ₁ ⁴	±25.0 kHz	5.0 ms	10.0 ms
t ₂	±12.5 kHz	20.0 ms	25.0 ms
t ₃ ⁴	±25.0 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 12.5 kHz Channels			
t ₁ ⁴	±12.5 kHz	5.0 ms	10.0 ms
t ₂	±6.25 kHz	20.0 ms	25.0 ms
t ₃ ⁴	±12.5 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 6.25 kHz Channels			
t ₁ ⁴	±6.25 kHz	5.0 ms	10.0 ms
t ₂	±3.125 kHz	20.0 ms	25.0 ms
t ₃ ⁴	±6.25 kHz	5.0 ms	10.0 ms

¹ t_{on} is the instant when a 1 kHz test signal is completely suppressed, including any capture time due to phasing.

t_1 is the time period immediately following t_{on} .

t_2 is the time period immediately following t_1 .

t_3 is the time period from the instant when the transmitter is turned off until t_{off} .

t_{off} is the instant when the 1 kHz test signal starts to rise.

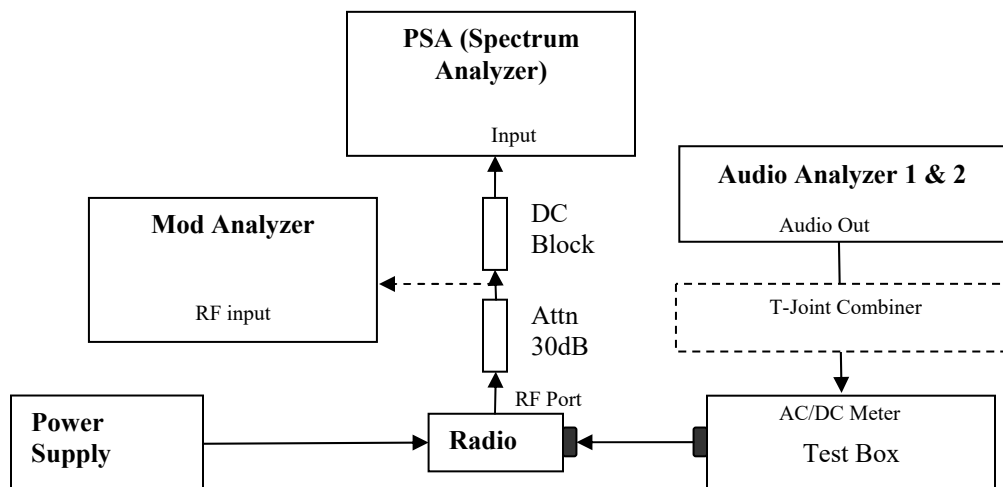
² During the time from the end of t_2 to the beginning of t_3 , the frequency difference must not exceed the limits specified in §90.213.

³ Difference between the actual transmitter frequency and the assigned transmitter frequency.

⁴ If the transmitter carrier output power rating is 6 watts or less, the frequency difference during this time period may exceed the maximum frequency difference for this time period.

6.9. Adjacent Channel Power

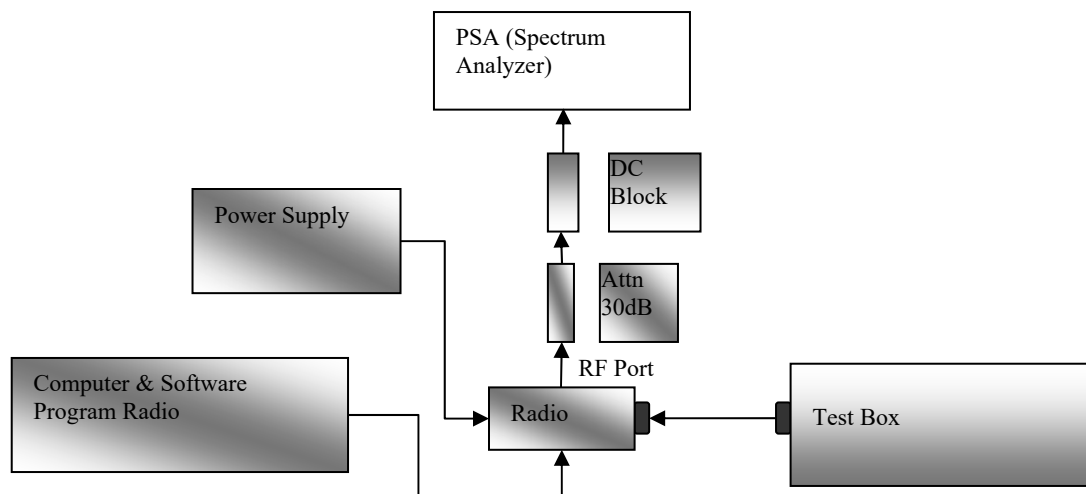
6.9.1. Test Setup (Analog)



- 1) The DUT transmitter output port was connected to modulation analyzer.
- 2) Transmit the radio and turn on 1st audio analyzer with audio frequency 650Hz, 50% rated deviation, and record the amplitude value as AmpT1.
- 3) Turn off Audio analyzer 1 and turn on audio analyzer 2, set the audio frequency to 2.2 kHz and 50% deviation. Record the amplitude as AmpT2.
- 4) Turn both audio analyzers ON and up 10dB amplitude level.
- 5) Connect the output to PSA and set to assigned center frequency.
- 6) Set Span, Resolution Bandwidth and Video Bandwidth per rules part.
- 7) Transmit the radio and record the Adjacent Channel Power value in dBc.

6.9.2. Test Result Not Applicable

6.9.3. Test Setup (Digital)



- 1) Program and set radio to operate in desire test frequency and digital mode with modulation. (4FSK, C4FM or other digital modulation form).
- 2) Prepare setup as per picture.
- 3) Turn on the ACP Measurement – Press Measure, ACP.
- 4) Set Span, Resolution Bandwidth and Video Bandwidth as per rules part.
- 5) Transmit the radio and record the Adjacent Channel Power value in dBc.

6.9.4. Test Result

Not Applicable

6.9.5. Test Limit

12.5 kHz MOBILE TRANSMITTER ACP REQUIREMENTS

Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP relative (dBc)
9.375	6.25	-40
15.625	6.25	-60
21.875	6.25	-60
37.50	25.00	-60
62.50	25.00	-65
87.50	25.00	-65
150.00	100	-65
250.00	100	-65
350.00	100	-65
>400 to 12 MHz	30 (s)	-75
12 MHz to paired receive band	30 (s)	-75
In the paired receive band	30 (s)	-100

25 kHz MOBILE TRANSMITTER ACP REQUIREMENTS

Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP relative (dBc)
15.625	6.25	-40
21.875	6.25	-60
37.50	25	-60
62.50	25	-65
87.50	25	-65
150.00	100	-65
250.00	100	-65
350.00	100	-65
>400 kHz to 12 MHz	30 (s)	-75
12 MHz to paired receive band	30 (s)	-75
In the paired receive band	30 (s)	-100

12.5 kHz BASE TRANSMITTER ACP REQUIREMENTS

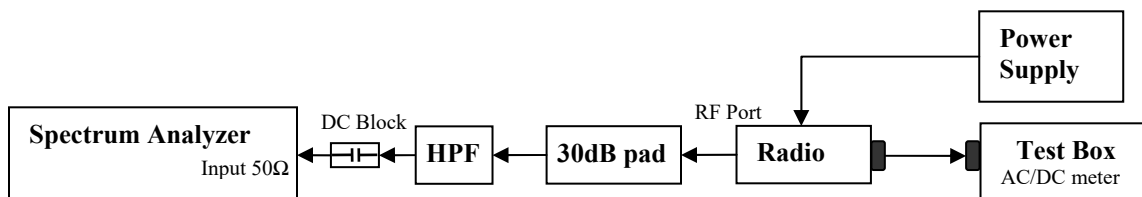
Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP (dBc)
9.375	6.25	-40
15.625	6.25	-60
21.875	6.25	-60
37.5	25	-60
62.5	25	-65
87.5	25	-65
150	100	-65
250	100	-65
350.00	100	-65
>400 kHz to 12 MHz	30 (s)	-80
12 MHz to paired receive band	30 (s)	-80
In the paired receive band	30 (s)	¹ -85

25 kHz BASE TRANSMITTER ACP REQUIREMENTS

Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP (dBc)
15.625	6.25	-40
21.875	6.25	-60
37.5	25	-60
62.5	25	-65
87.5	25	-65
150	100	-65
250	100	-65
350	100.00	-65
>400 kHz to 12 MHz	30 (s)	-80
12 MHz to paired receive band	30 (s)	-80
In the paired receive band	30 (s)	¹ -85

6.10. Conducted Spurious Emission

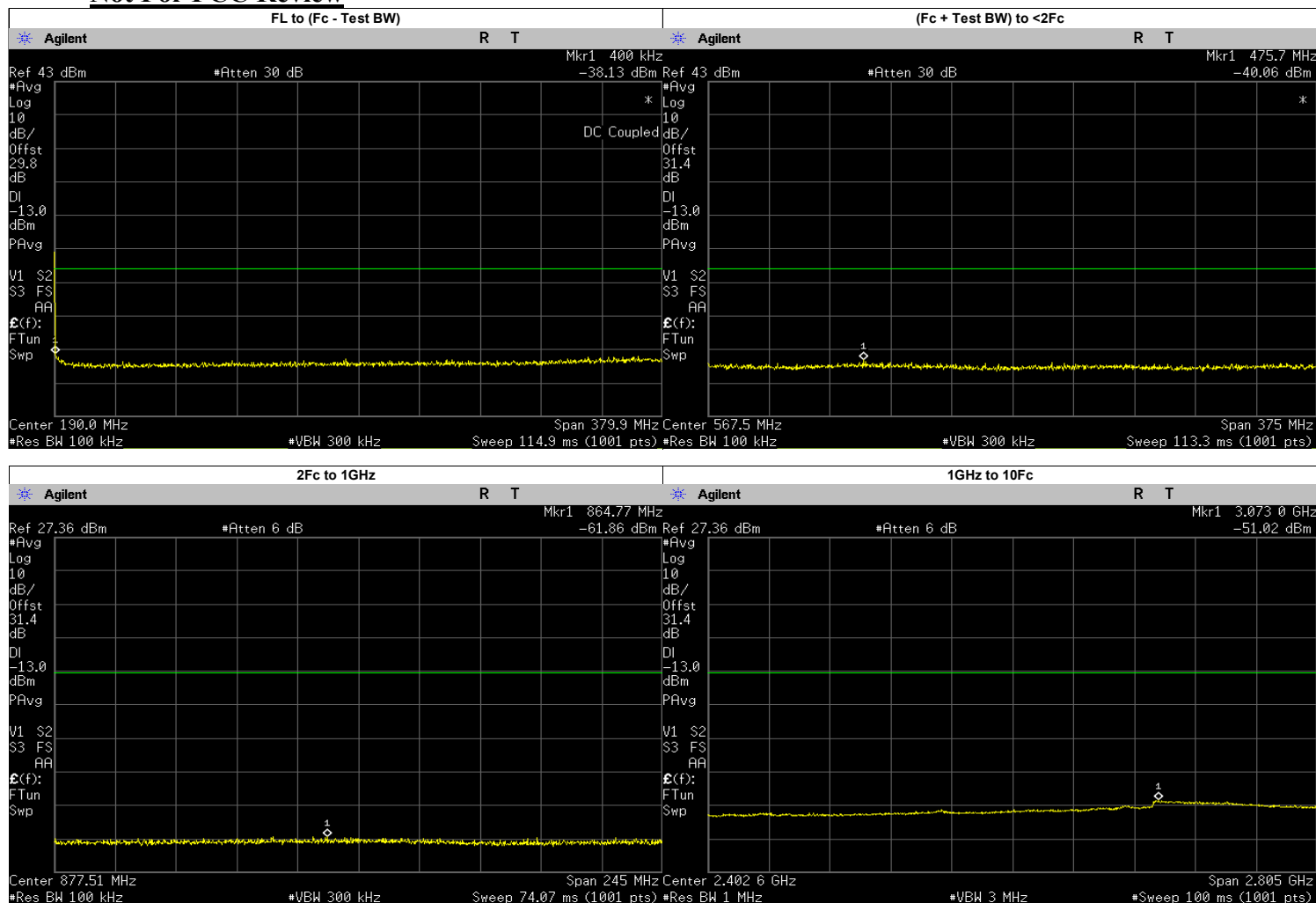
6.10.1. Test Setup



- 1) The DUT transmitter output port was connected to Spectrum Analyzer with above setup.
- 2) Program and set radio to operate in desire test frequency and mode. (Analog / digital modulation form).
- 3) Path loss for the measurement included.
- 4) Set the PSA Resolution Bandwidth as per rules part.
- 5) Set the Ref offset from the pathloss offset calibration file.
- 6) Adjust the center frequency of the spectrum analyzer for incremental coverage of the range from:
 - a. 9 KHz to $F_c - \text{Test Bandwidth}$
 - b. $F_c + \text{Test Bandwidth}$ to $2F_c - 5\text{MHz}$.
- 7) Key up the DUT, Peak Search the highest Spur and record the levels of spurious emissions
- 8) Dekey the DUT.
- 9) Turn On High Pass Filter path and Key up the DUT.
- 10) Adjust the PSA Freq for incremental coverage of range from $2F_c$ to $10F_c$
- 11) Key up the DUT and record the highest spur levels of spurious emissions.

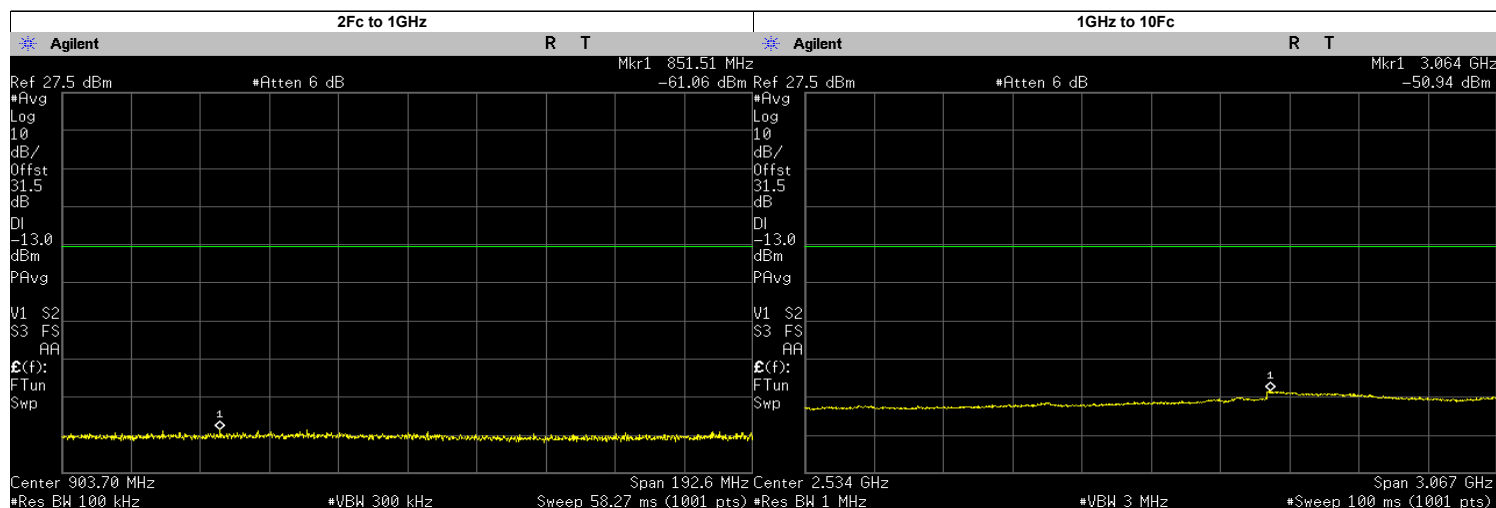
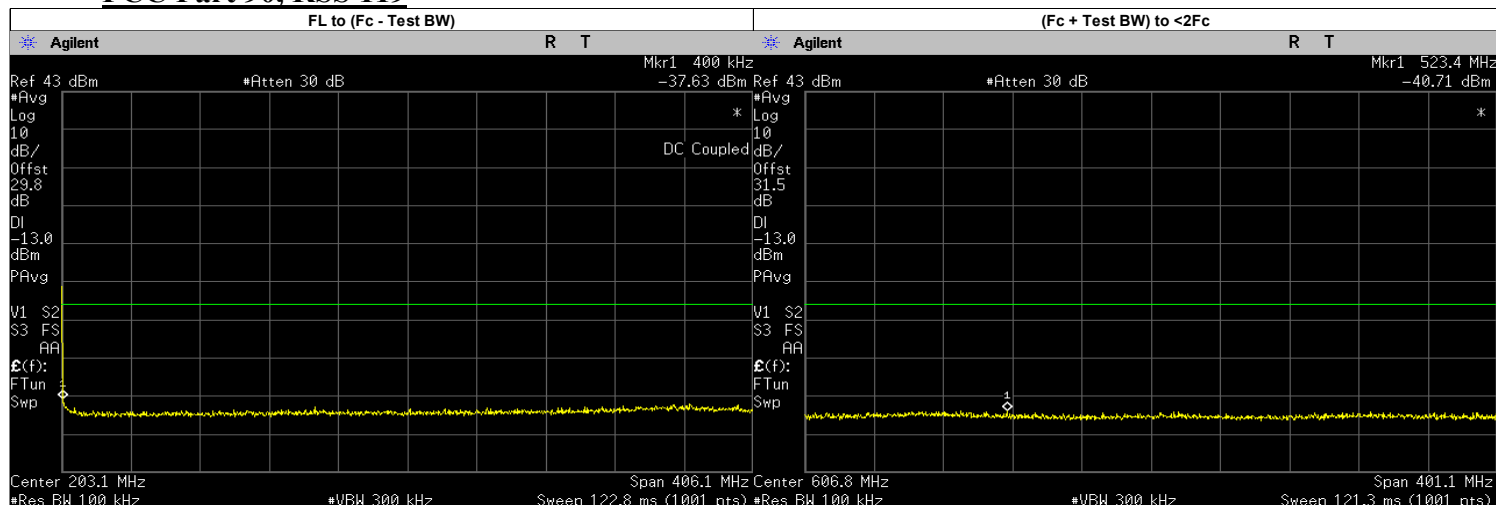
6.10.2. Test Result (Analog)

Analog: 380.0125 MHz, 25.0kHz Channel Spacing, Max Power Not For FCC Review



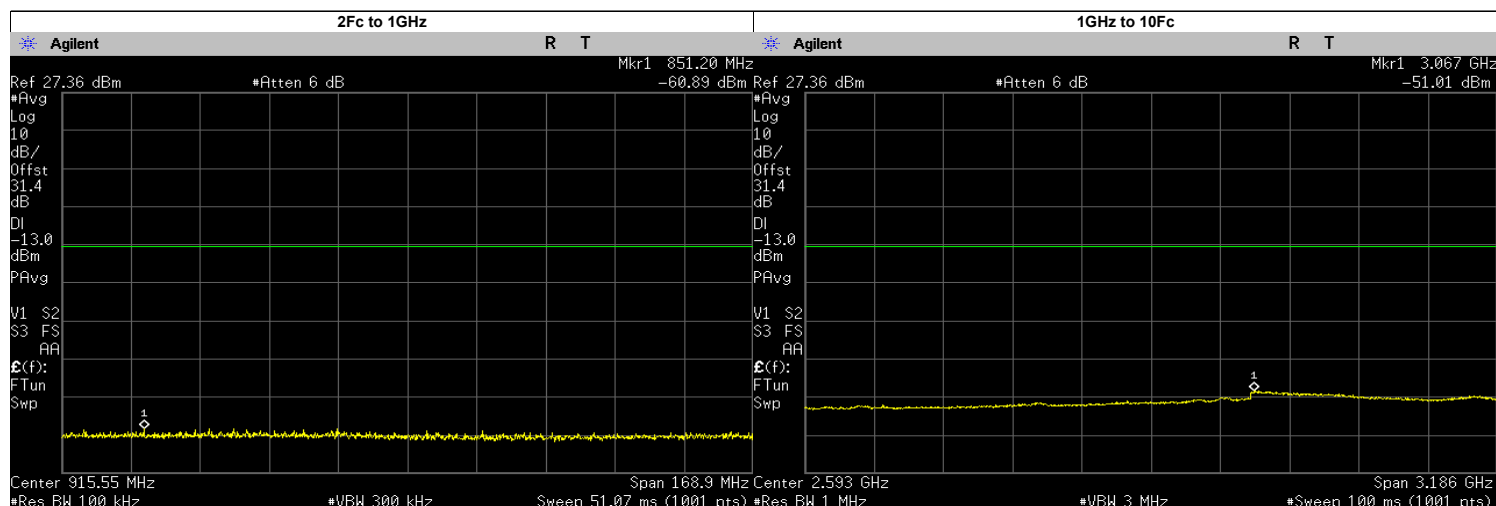
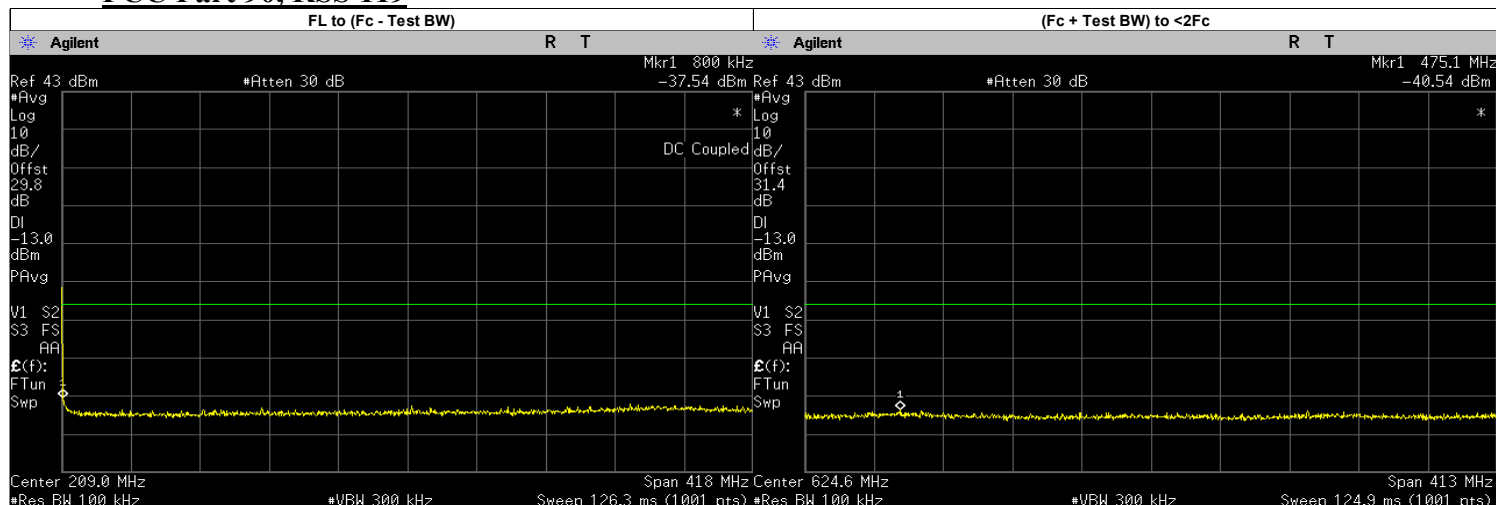
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-38.1300	-13.00	PASS
(Fc + Test BW) to <2Fc	475.6821	-40.0600	-13.00	PASS
2Fc to 1GHz	864.7738	-61.8600	-13.00	PASS
	760.0250	-63.7921	-13.00	PASS
1GHz to 10Fc	3072.9870	-51.0200	-13.00	PASS
	1140.0370	-55.5263	-13.00	PASS
	1520.0500	-55.4884	-13.00	PASS
	1900.0620	-55.1756	-13.00	PASS
	2280.0750	-54.8002	-13.00	PASS
	2660.0880	-54.1241	-13.00	PASS
	3040.1000	-53.1321	-13.00	PASS
	3420.1130	-51.9856	-13.00	PASS
	3800.1250	-53.0899	-13.00	PASS

**Analog: 406.2 MHz, 25.0kHz Channel Spacing, Max Power
FCC Part 90, RSS 119**



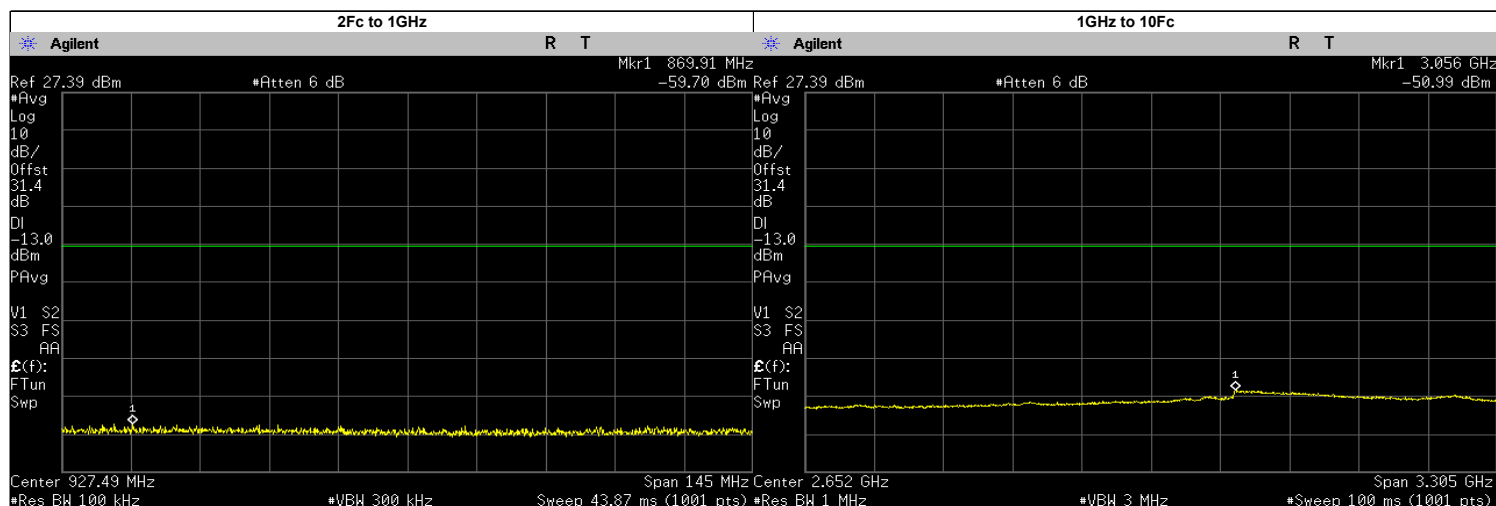
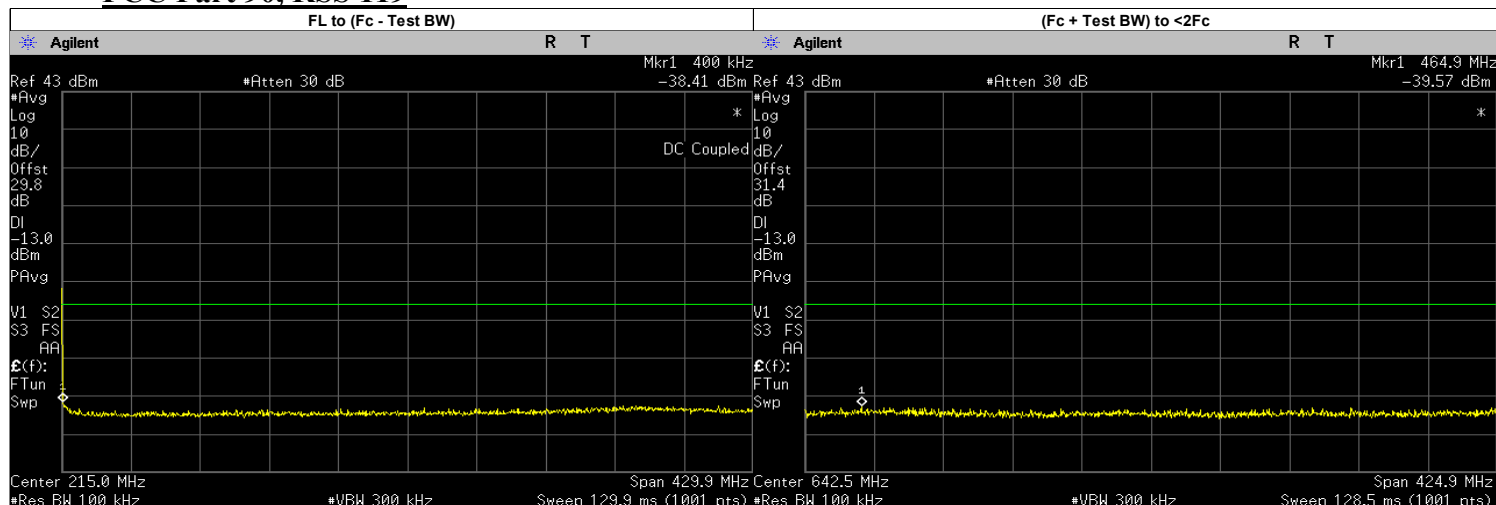
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-37.6300	-13.00	PASS
(Fc + Test BW) to <2Fc	523.3898	-40.7100	-13.00	PASS
2Fc to 1GHz	851.5054	-61.0600	-13.00	PASS
	812.4000	-63.0754	-13.00	PASS
1GHz to 10Fc	3064.0910	-50.9400	-13.00	PASS
	1218.6000	-55.1902	-13.00	PASS
	1624.8000	-55.2965	-13.00	PASS
	2031.0000	-54.2036	-13.00	PASS
	2437.2000	-54.1894	-13.00	PASS
	2843.4000	-53.5173	-13.00	PASS
	3249.6000	-51.7461	-13.00	PASS
	3655.8000	-52.9563	-13.00	PASS
	4062.0000	-52.7656	-13.00	PASS

Analog: 418.05 MHz, 25.0kHz Channel Spacing, Max Power
FCC Part 90, RSS 119



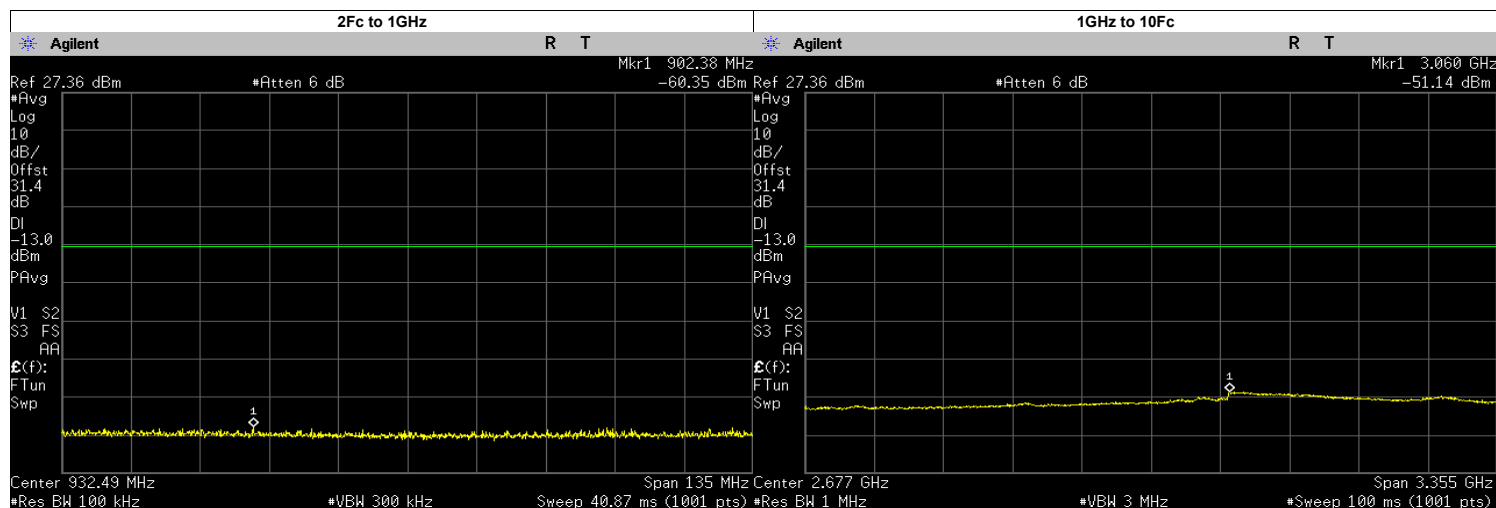
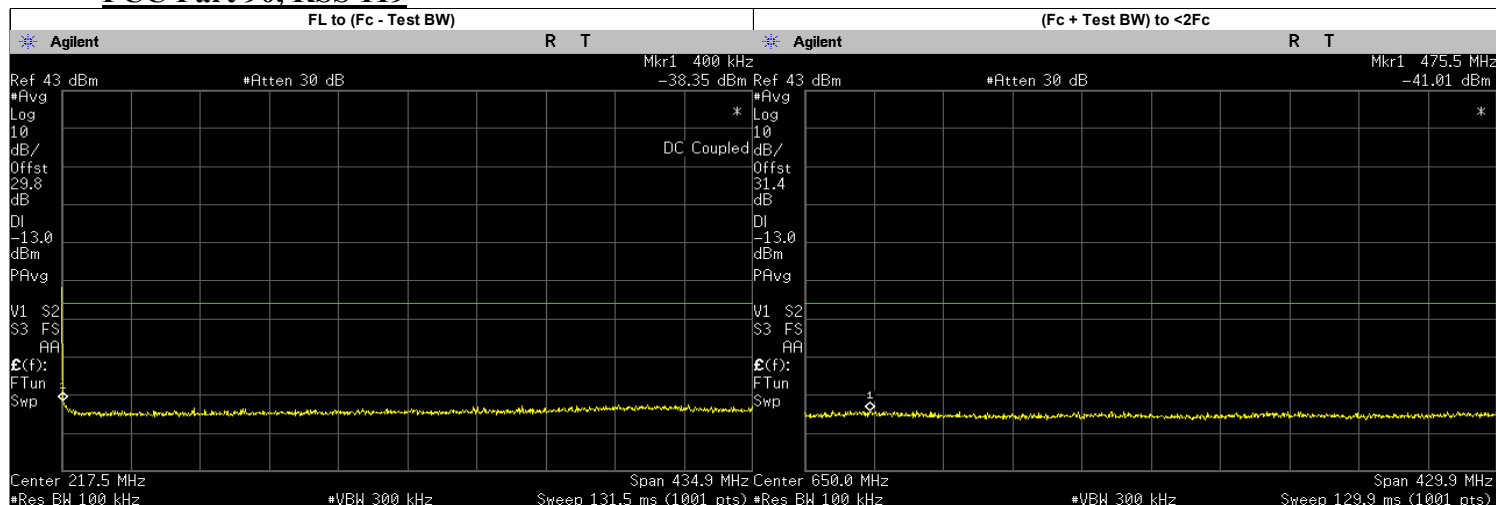
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.8000	-37.5400	-13.00	PASS
(Fc + Test BW) to <2Fc	475.0988	-40.5400	-13.00	PASS
2Fc to 1GHz	851.1991	-60.8900	-13.00	PASS
	836.1000	-62.6174	-13.00	PASS
1GHz to 10Fc	3067.3900	-51.0100	-13.00	PASS
	1254.1500	-55.0399	-13.00	PASS
	1672.2000	-55.4522	-13.00	PASS
	2090.2500	-54.3226	-13.00	PASS
	2508.3000	-54.1538	-13.00	PASS
	2926.3500	-52.9158	-13.00	PASS
	3344.4000	-51.8341	-13.00	PASS
	3762.4500	-52.9612	-13.00	PASS
	4180.5000	-53.2872	-13.00	PASS

**Analog: 429.9875 MHz, 25.0kHz Channel Spacing, Max Power
FCC Part 90, RSS 119**



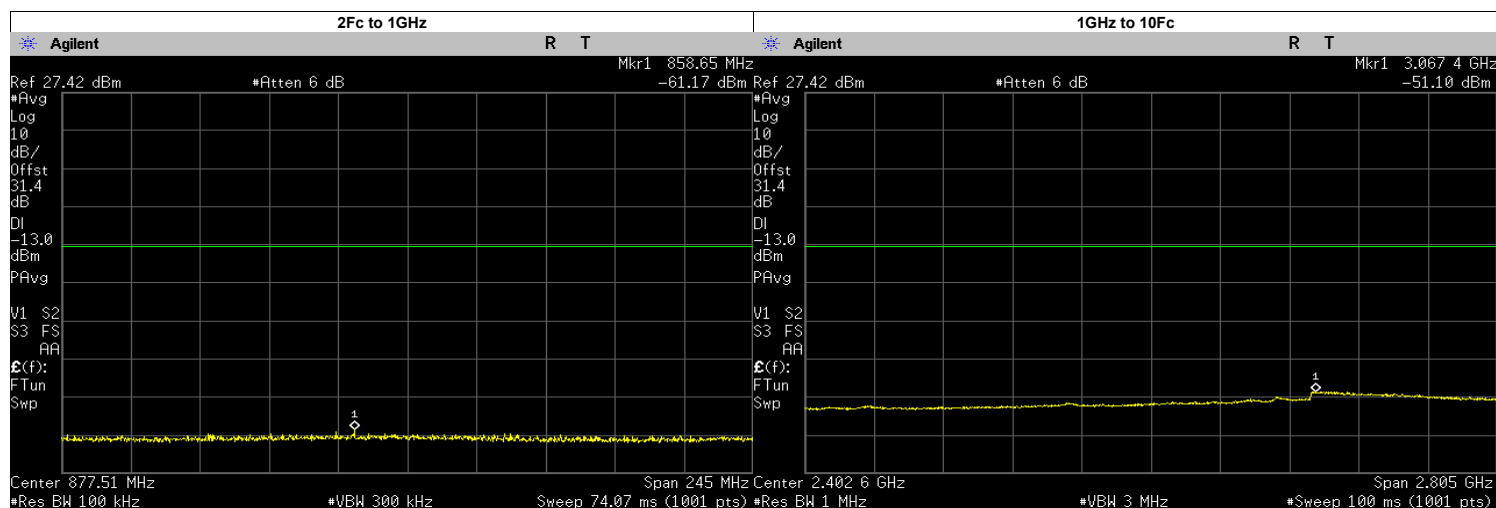
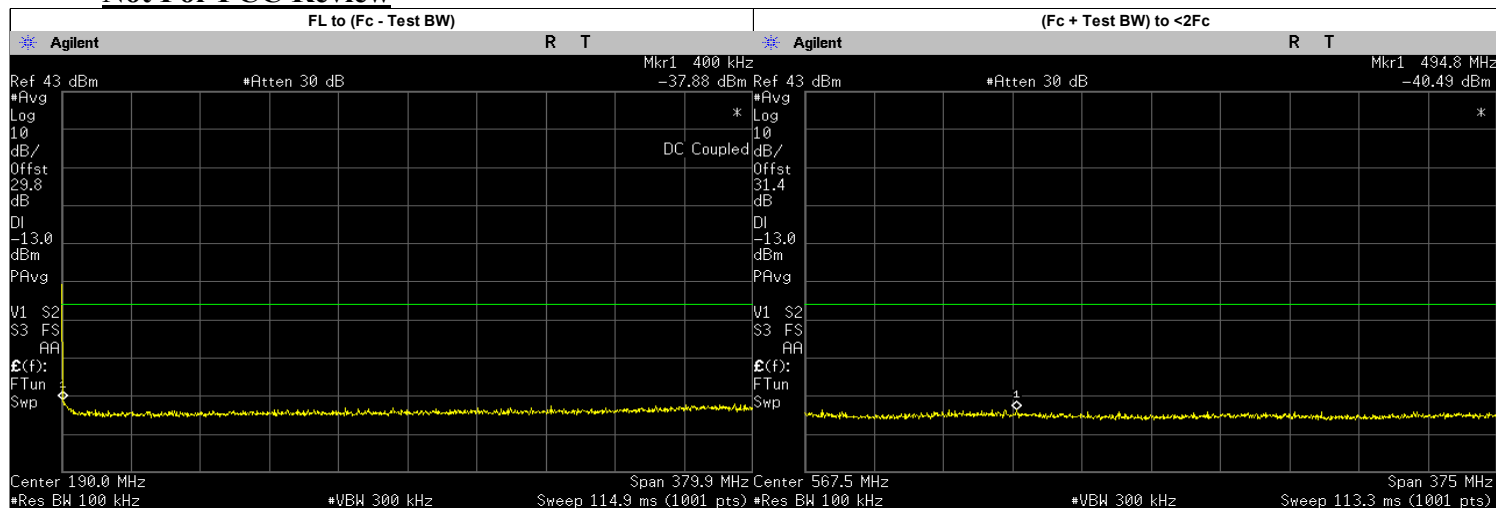
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-38.4100	-13.00	PASS
(Fc + Test BW) to <2Fc	464.8875	-39.5700	-13.00	PASS
2Fc to 1GHz	869.9126	-59.7000	-13.00	PASS
	859.9750	-61.8227	-13.00	PASS
1GHz to 10Fc	3055.6320	-50.9900	-13.00	PASS
	1289.9630	-54.8967	-13.00	PASS
	1719.9500	-55.1204	-13.00	PASS
	2149.9370	-54.6441	-13.00	PASS
	2579.9250	-54.1197	-13.00	PASS
	3009.9120	-52.8988	-13.00	PASS
	3439.9000	-52.2132	-13.00	PASS
	3869.8870	-53.0824	-13.00	PASS
	4299.8750	-53.6850	-13.00	PASS

**Analog: 434.9875 MHz, 25.0kHz Channel Spacing, Max Power
FCC Part 90, RSS 119**



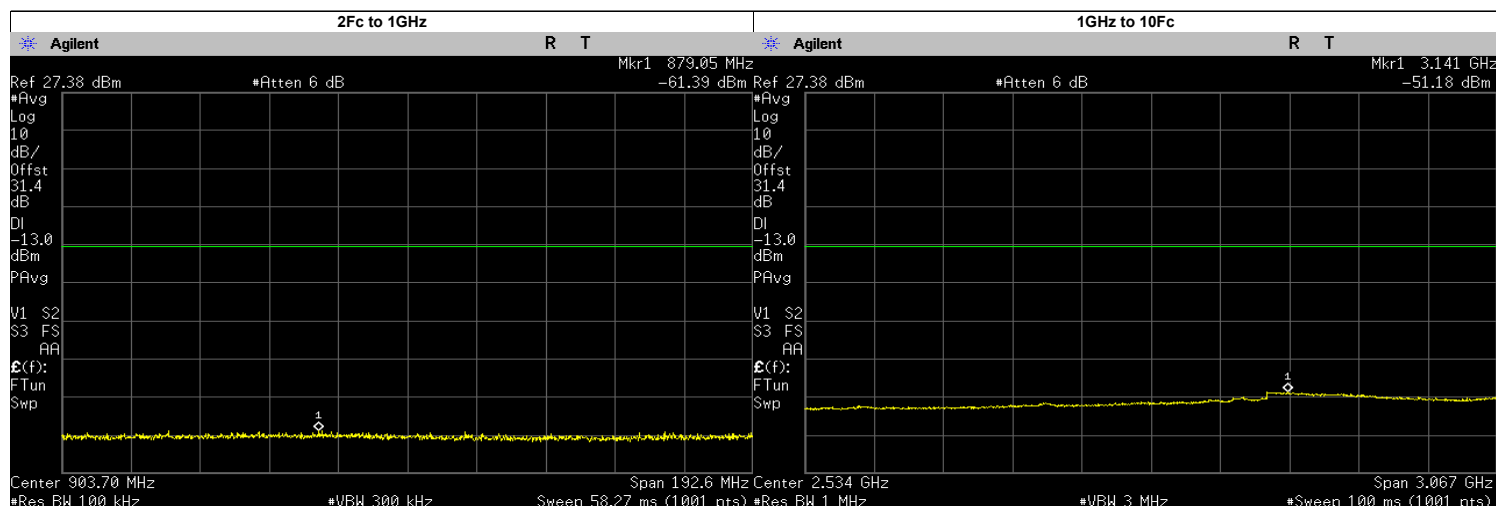
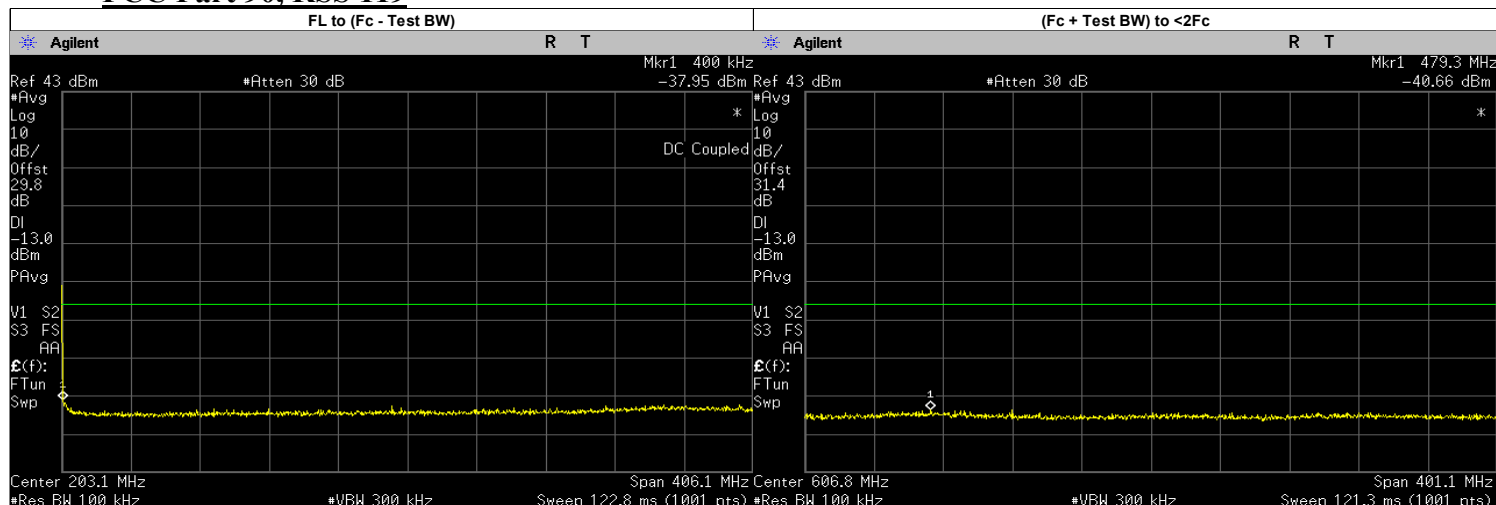
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-38.3500	-13.00	PASS
(Fc + Test BW) to <2Fc	475.4567	-41.0100	-13.00	PASS
2Fc to 1GHz	902.3769	-60.3500	-13.00	PASS
	869.9750	-61.9281	-13.00	PASS
1GHz to 10Fc	3059.8930	-51.1400	-13.00	PASS
	1304.9630	-55.4038	-13.00	PASS
	1739.9500	-55.2353	-13.00	PASS
	2174.9370	-54.8005	-13.00	PASS
	2609.9250	-54.2976	-13.00	PASS
	3044.9120	-53.1514	-13.00	PASS
	3479.9000	-52.3825	-13.00	PASS
	3914.8870	-53.4907	-13.00	PASS
	4349.8750	-53.8455	-13.00	PASS

Analog: 380.0125 MHz, 25.0kHz Channel Spacing, Low Power
Not For FCC Review



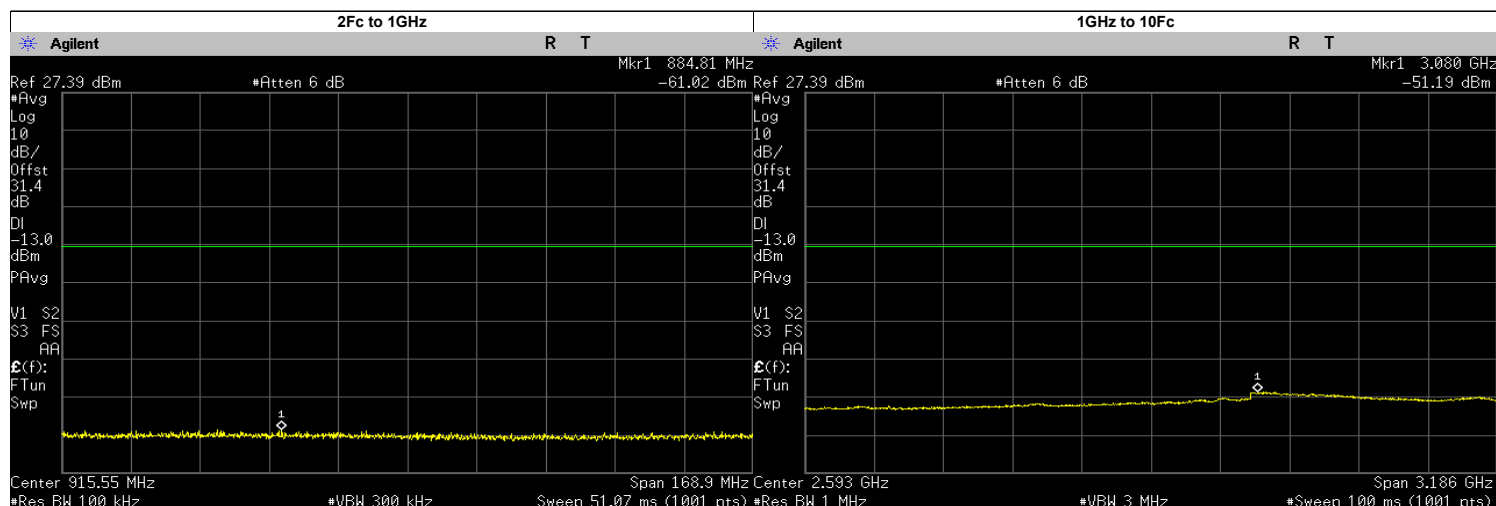
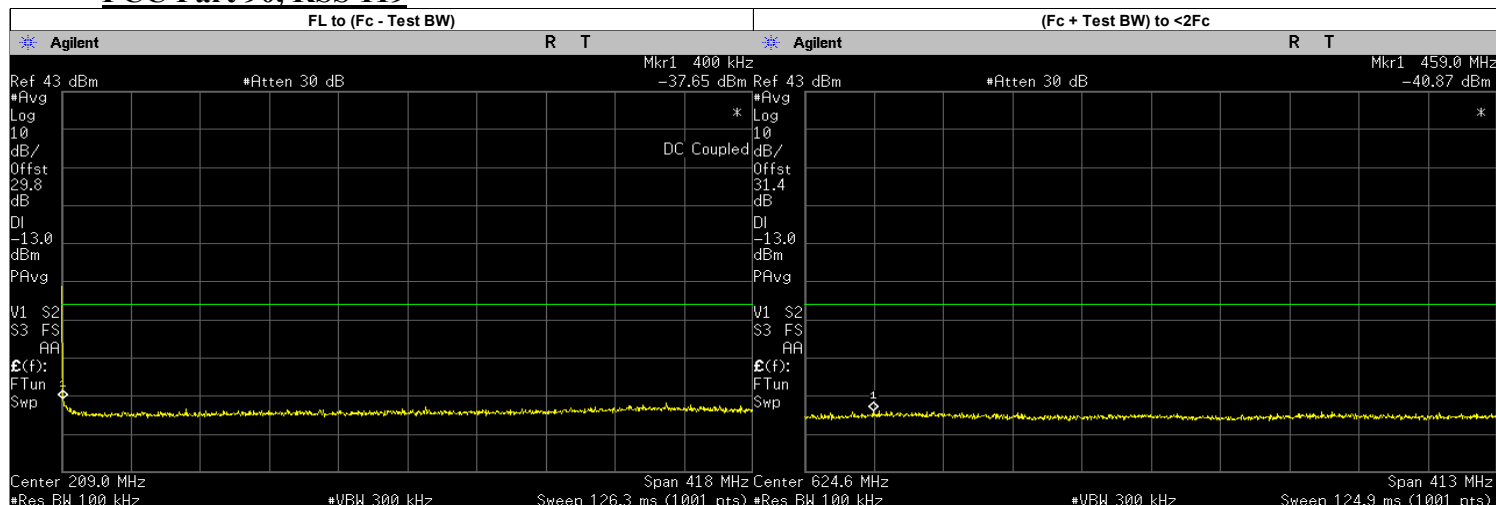
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-37.8800	-13.00	PASS
(Fc + Test BW) to <2Fc	494.8049	-40.4900	-13.00	PASS
2Fc to 1GHz	858.6494	-61.1700	-13.00	PASS
	760.0250	-63.4660	-13.00	PASS
1GHz to 10Fc	3067.3770	-51.1000	-13.00	PASS
	1140.0370	-55.4422	-13.00	PASS
	1520.0500	-55.5243	-13.00	PASS
	1900.0620	-54.9755	-13.00	PASS
	2280.0750	-54.7793	-13.00	PASS
	2660.0880	-54.1027	-13.00	PASS
	3040.1000	-53.0701	-13.00	PASS
	3420.1130	-51.9436	-13.00	PASS
	3800.1250	-53.1163	-13.00	PASS

Analog: 406.2 MHz, 25.0kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



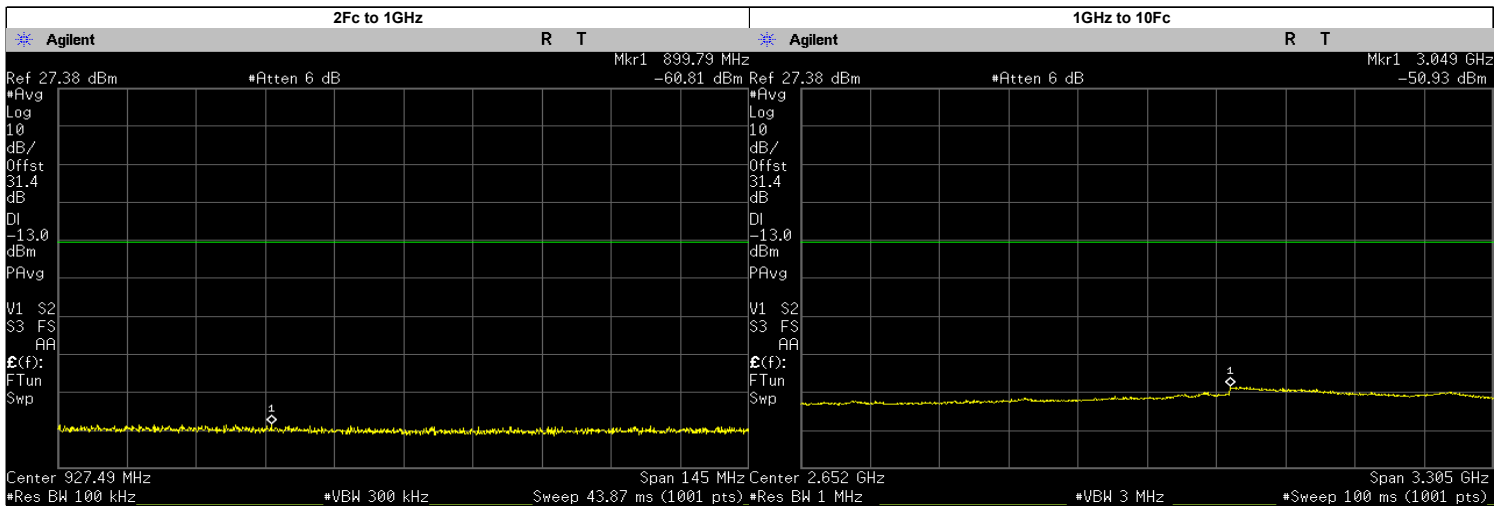
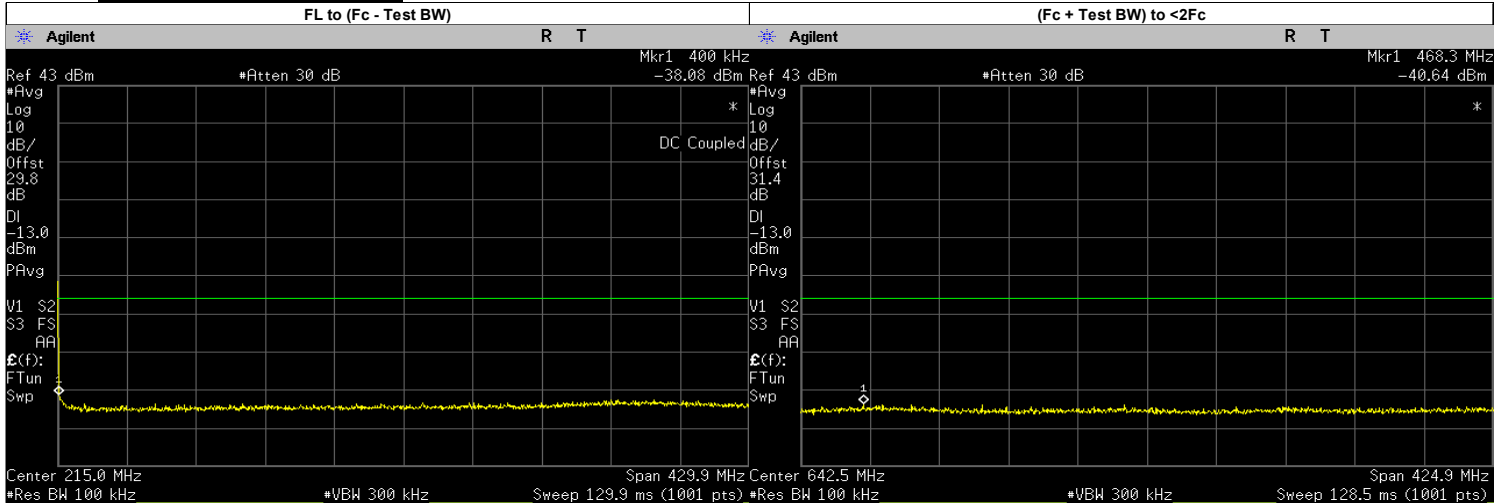
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-37.9500	-13.00	PASS
(Fc + Test BW) to <2Fc	479.2639	-40.6600	-13.00	PASS
2Fc to 1GHz	879.0472	-61.3900	-13.00	PASS
	812.4000	-63.1093	-13.00	PASS
1GHz to 10Fc	3140.7660	-51.1800	-13.00	PASS
	1218.6000	-55.4986	-13.00	PASS
	1624.8000	-55.3242	-13.00	PASS
	2031.0000	-54.8051	-13.00	PASS
	2437.2000	-54.4883	-13.00	PASS
	2843.4000	-53.5386	-13.00	PASS
	3249.6000	-52.0751	-13.00	PASS
	3655.8000	-53.0907	-13.00	PASS
	4062.0000	-52.6179	-13.00	PASS

Analog: 418.05 MHz, 25.0kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



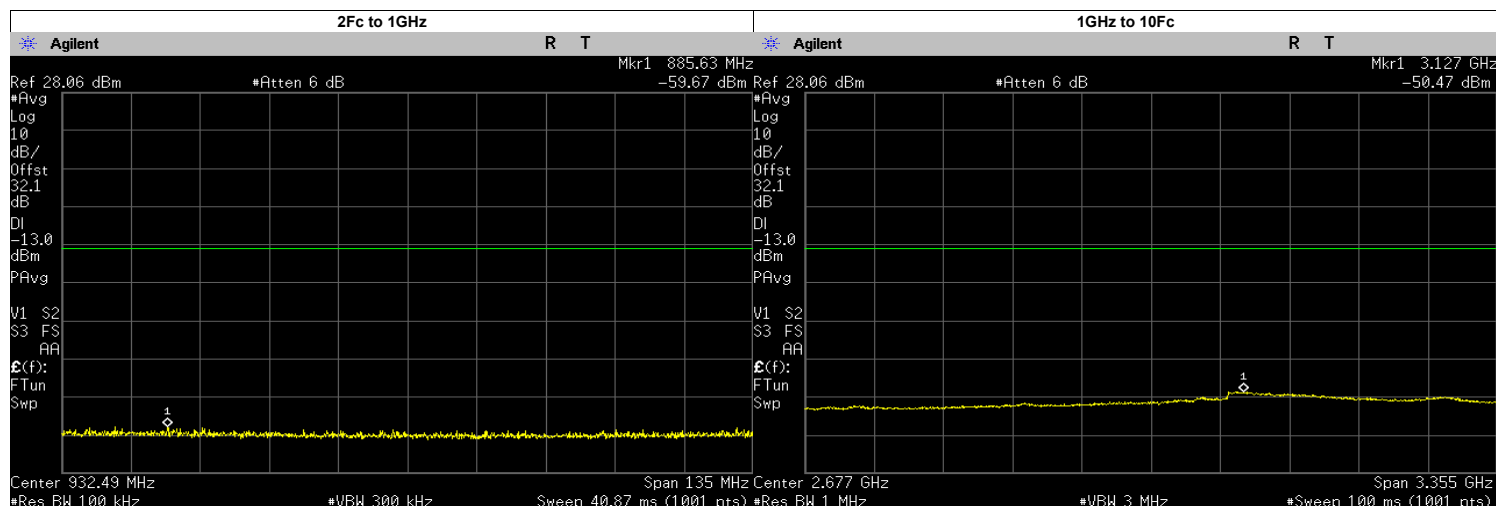
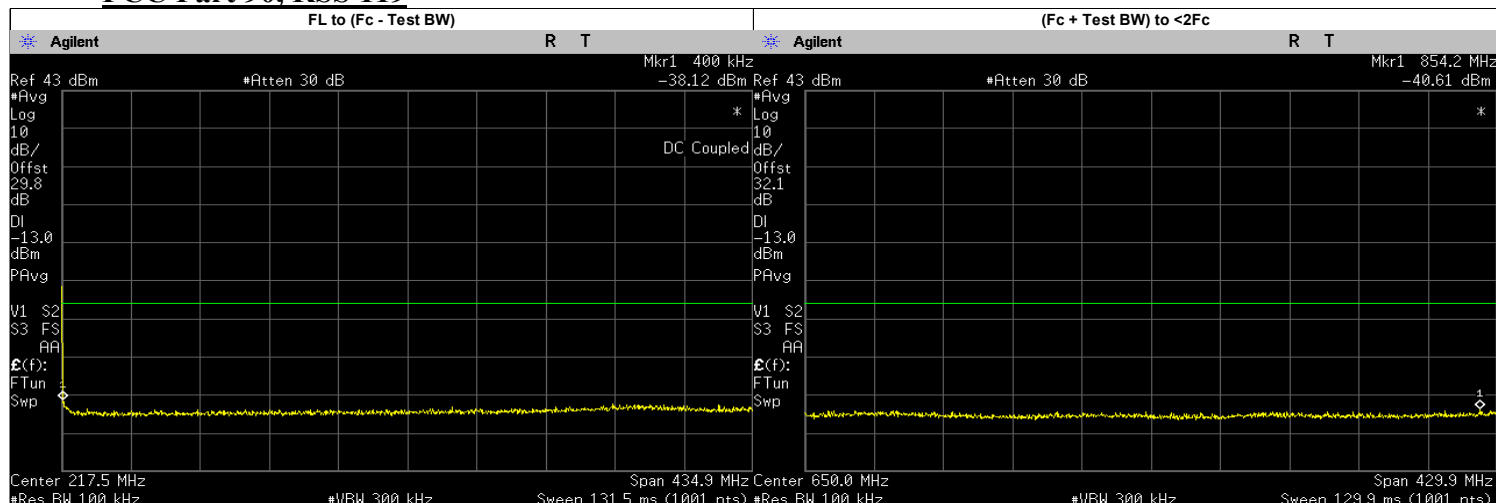
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-37.6500	-13.00	PASS
(Fc + Test BW) to <2Fc	458.9921	-40.8700	-13.00	PASS
2Fc to 1GHz	884.8102	-61.0200	-13.00	PASS
	836.1000	-62.7872	-13.00	PASS
1GHz to 10Fc	3080.1310	-51.1900	-13.00	PASS
	1254.1500	-55.0489	-13.00	PASS
	1672.2000	-55.3524	-13.00	PASS
	2090.2500	-54.6133	-13.00	PASS
	2508.3000	-54.1281	-13.00	PASS
	2926.3500	-52.9223	-13.00	PASS
	3344.4000	-52.0144	-13.00	PASS
	3762.4500	-53.1644	-13.00	PASS
	4180.5000	-53.4652	-13.00	PASS

**Analog: 429.9875 MHz, 25.0kHz Channel Spacing, Low Power
FCC Part 90, RSS 119**



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4389	-38.0800	-13.00	PASS
(Fc + Test BW) to <2Fc	468.2870	-40.6400	-13.00	PASS
2Fc to 1GHz	899.7877	-60.8100	-13.00	PASS
	859.9750	-61.9116	-13.00	PASS
1GHz to 10Fc	3049.0230	-50.9300	-13.00	PASS
	1289.9630	-55.3353	-13.00	PASS
	1719.9500	-55.4580	-13.00	PASS
	2149.9370	-54.8985	-13.00	PASS
	2579.9250	-53.9034	-13.00	PASS
	3009.9120	-53.2519	-13.00	PASS
	3439.9000	-52.2989	-13.00	PASS
	3869.8870	-53.6127	-13.00	PASS
	4299.8750	-54.2549	-13.00	PASS

Analog: 434.9875 MHz, 25.0kHz Channel Spacing, Low Power
FCC Part 90, RSS 119

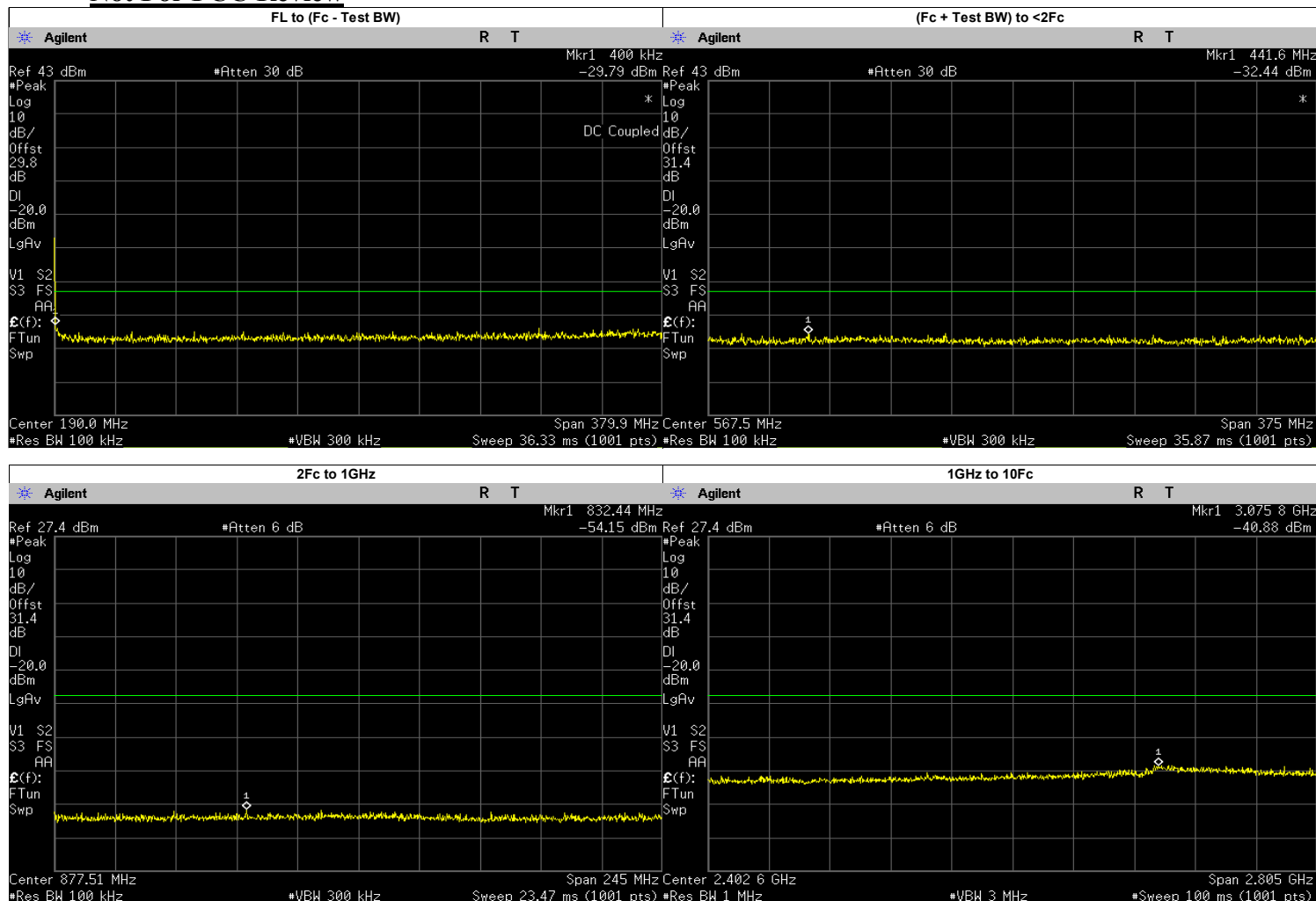


Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-38.1200	-13.00	PASS
(Fc + Test BW) to <2Fc	854.2267	-40.6100	-13.00	PASS
2Fc to 1GHz	885.6338	-59.6700	-13.00	PASS
	869.9750	-60.5918	-13.00	PASS
1GHz to 10Fc	3126.9910	-50.4700	-13.00	PASS
	1304.9630	-54.3839	-13.00	PASS
	1739.9500	-54.5583	-13.00	PASS
	2174.9370	-54.1848	-13.00	PASS
	2609.9250	-53.7101	-13.00	PASS
	3044.9120	-52.4040	-13.00	PASS
	3479.9000	-51.8274	-13.00	PASS
	3914.8870	-52.8144	-13.00	PASS
	4349.8750	-53.2954	-13.00	PASS

6.10.3. Test Result (Digital)

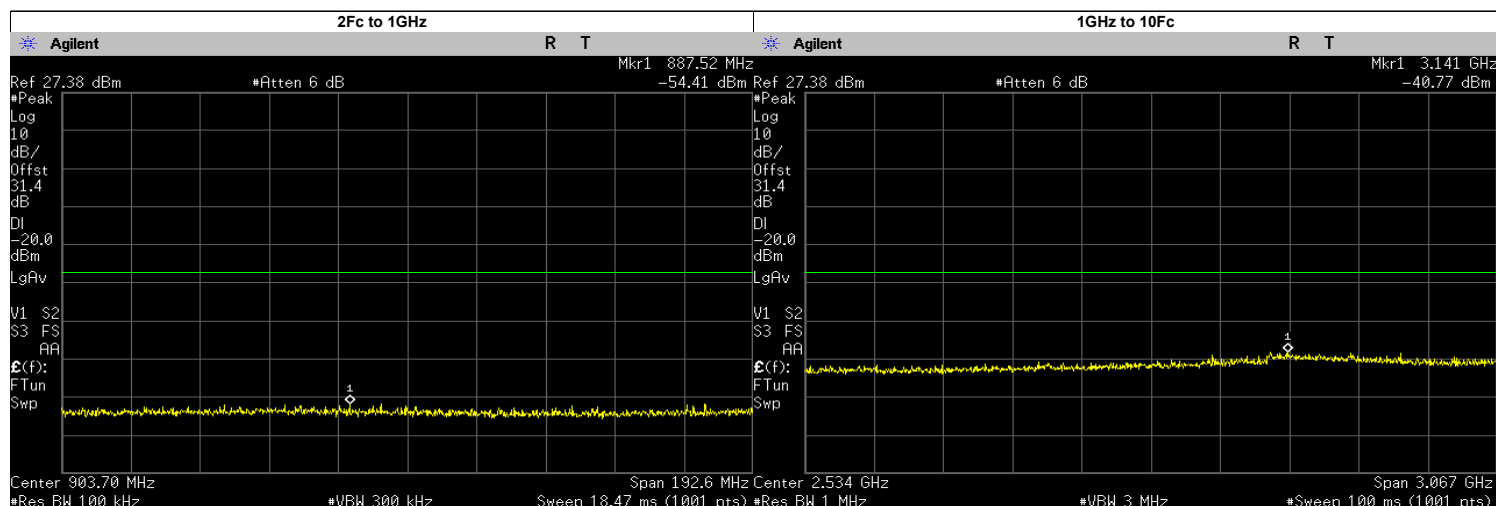
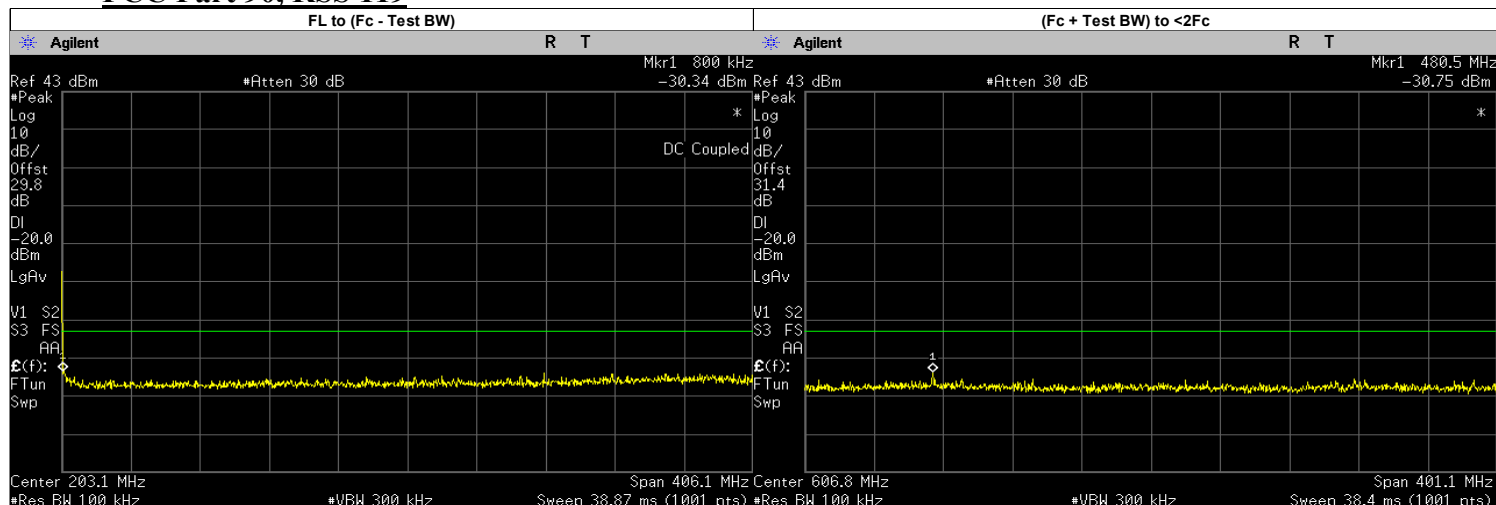
C4FM: 380.0125 MHz, 12.5 kHz Channel Spacing, High Power

Not For FCC Review



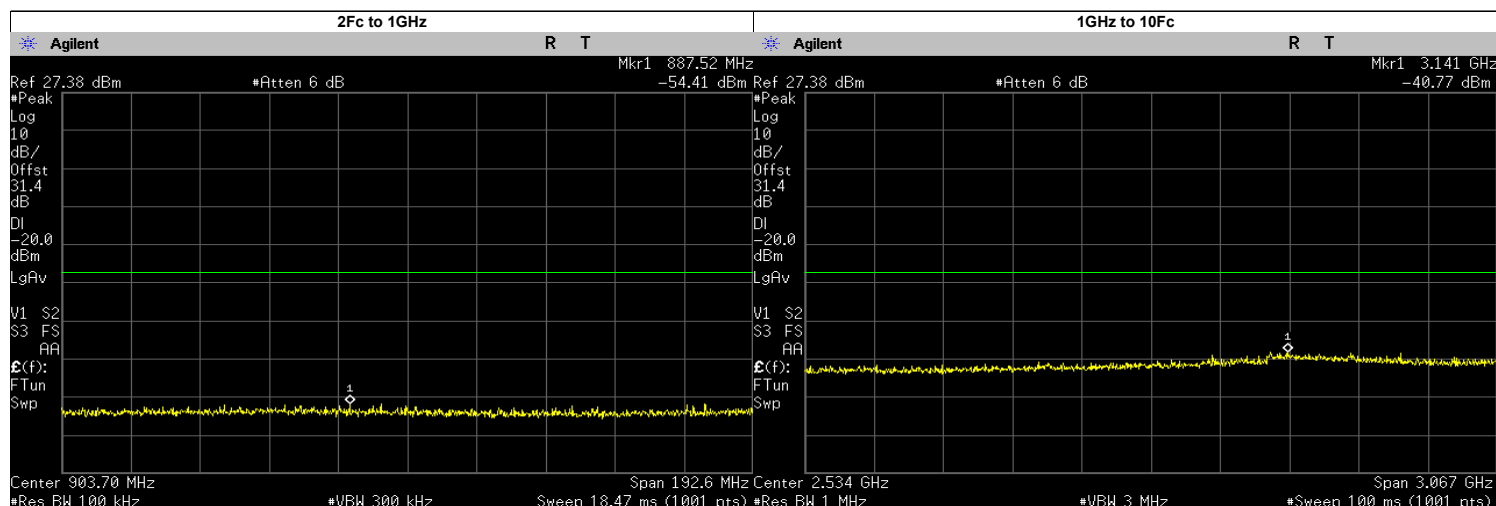
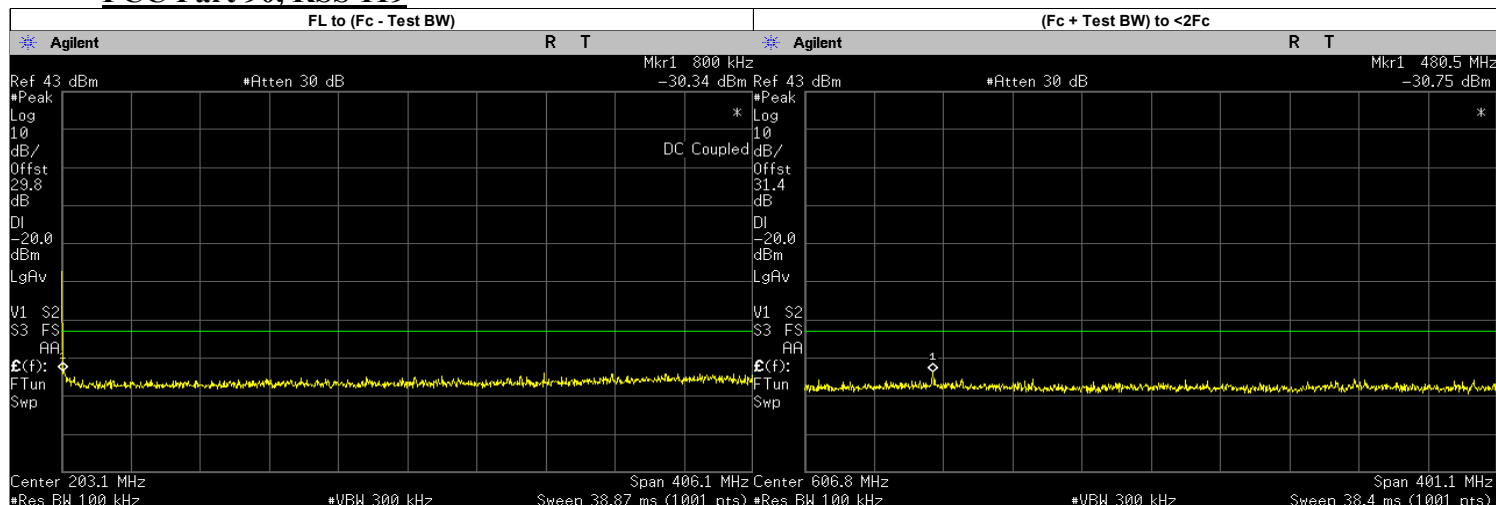
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-29.7900	-20.0000	PASS
(Fc + Test BW) to <2Fc	441.5611	-32.4400	-20.0000	PASS
2Fc to 1GHz	832.4371	-54.1500	-20.0000	PASS
	760.0250	-57.1479	-20.0000	PASS
1GHz to 10Fc	3075.7930	-40.8800	-20.0000	PASS
	1140.0370	-45.6853	-20.0000	PASS
	1520.0500	-45.0292	-20.0000	PASS
	1900.0620	-45.4341	-20.0000	PASS
	2280.0750	-45.0555	-20.0000	PASS
	2660.0880	-44.2396	-20.0000	PASS
	3040.1000	-42.8991	-20.0000	PASS
	3420.1130	-43.0782	-20.0000	PASS
	3800.1250	-43.1954	-20.0000	PASS

**C4FM: 406.2 MHz, 12.5 kHz Channel Spacing, High Power
FCC Part 90, RSS 119**



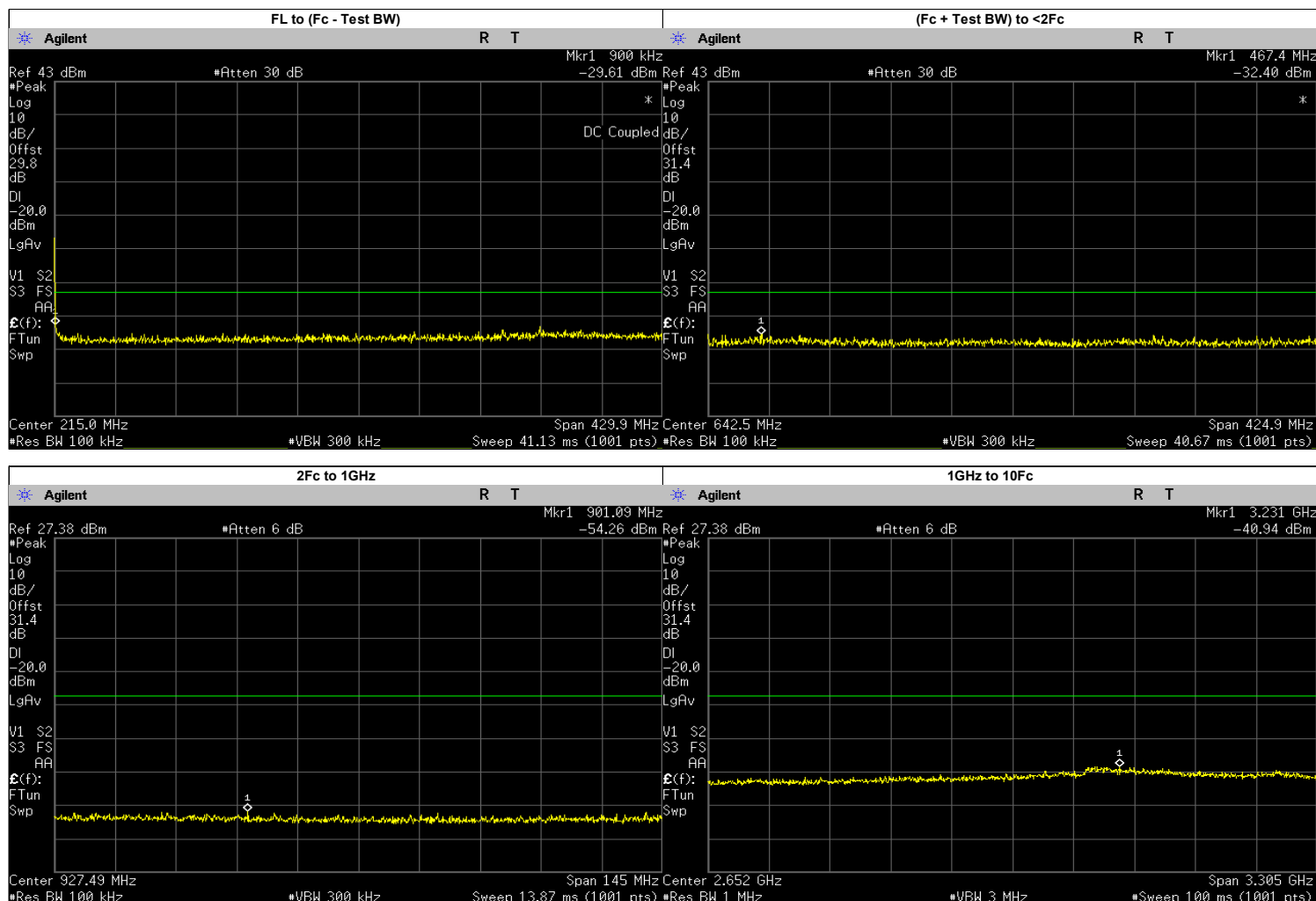
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.8000	-30.3400	-20.00	PASS
(Fc + Test BW) to <2Fc	480.4673	-30.7500	-20.00	PASS
2Fc to 1GHz	887.5216	-54.4100	-20.00	PASS
	812.4000	-57.1129	-20.00	PASS
1GHz to 10Fc	3140.7660	-40.7700	-20.00	PASS
	1218.6000	-45.3784	-20.00	PASS
	1624.8000	-45.9946	-20.00	PASS
	2031.0000	-44.5545	-20.00	PASS
	2437.2000	-44.0087	-20.00	PASS
	2843.4000	-43.6311	-20.00	PASS
	3249.6000	-42.1706	-20.00	PASS
	3655.8000	-43.6619	-20.00	PASS
	4062.0000	-42.9955	-20.00	PASS

C4FM: 418.05 MHz, 12.5 kHz Channel Spacing, High Power
FCC Part 90, RSS 119



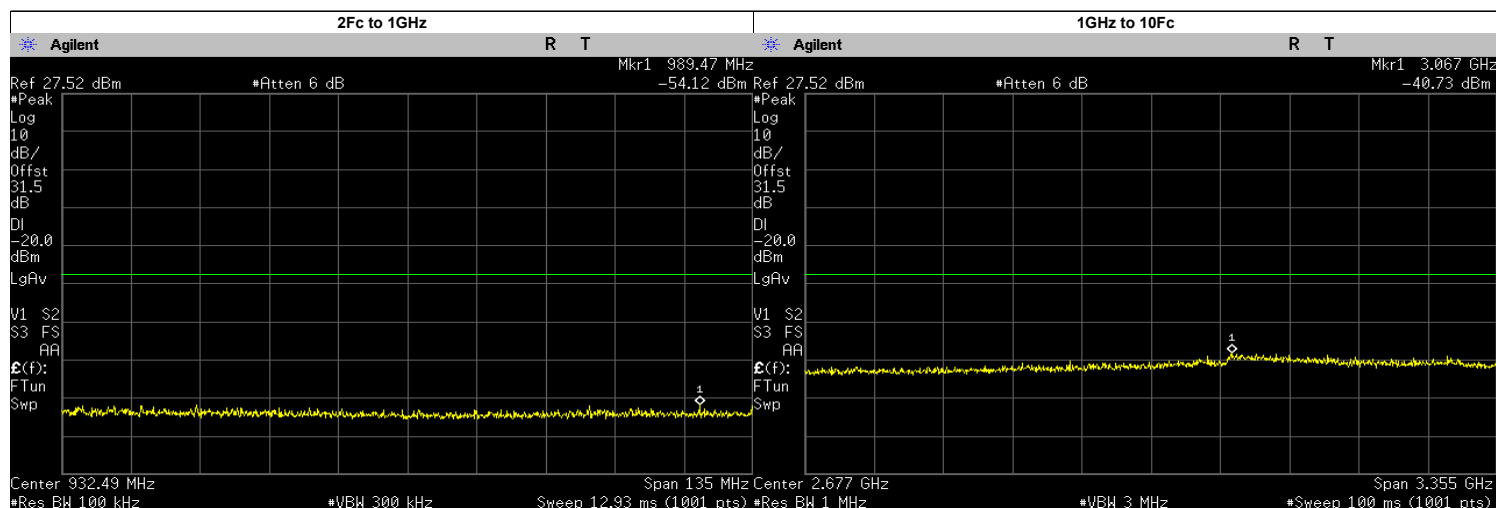
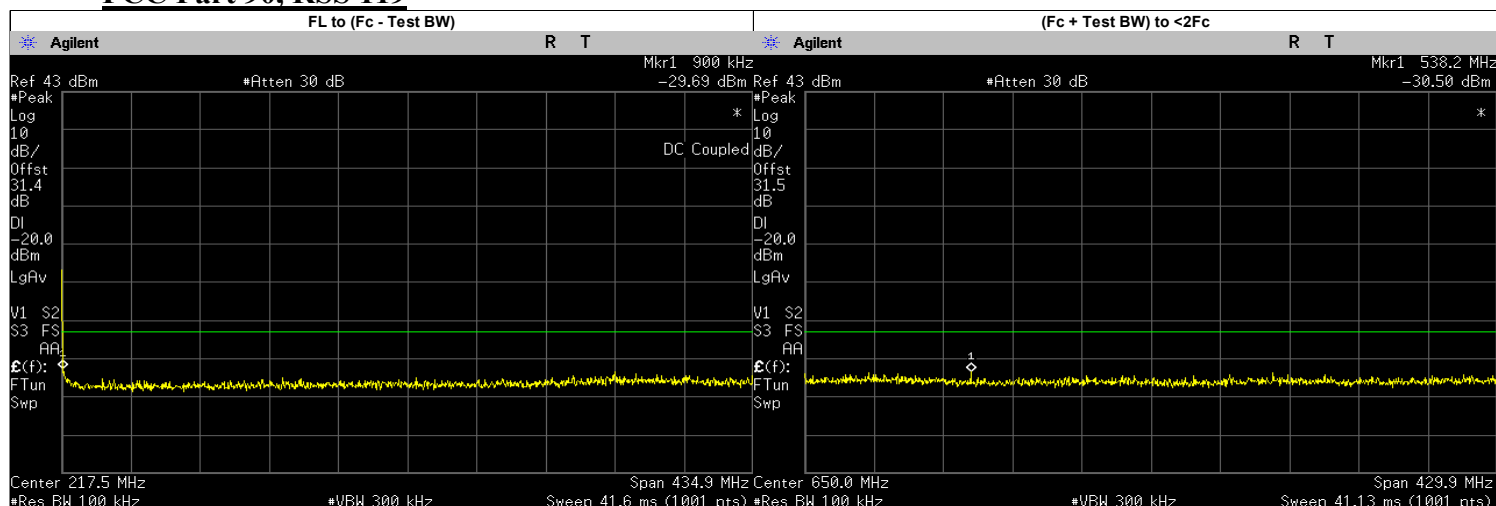
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-29.4700	-20.00	PASS
(Fc + Test BW) to <2Fc	756.7610	-30.5800	-20.00	PASS
2Fc to 1GHz	850.6924	-53.4300	-20.00	PASS
	836.1000	-56.1361	-20.00	PASS
1GHz to 10Fc	3073.7600	-40.1500	-20.00	PASS
	1254.1500	-44.3631	-20.00	PASS
	1672.2000	-44.7605	-20.00	PASS
	2090.2500	-44.4064	-20.00	PASS
	2508.3000	-43.0479	-20.00	PASS
	2926.3500	-41.7853	-20.00	PASS
	3344.4000	-41.8733	-20.00	PASS
	3762.4500	-42.5255	-20.00	PASS
	4180.5000	-42.8372	-20.00	PASS

C4FM: 429.9875 MHz, 12.5 kHz Channel Spacing, High Power
FCC Part 90, RSS 119



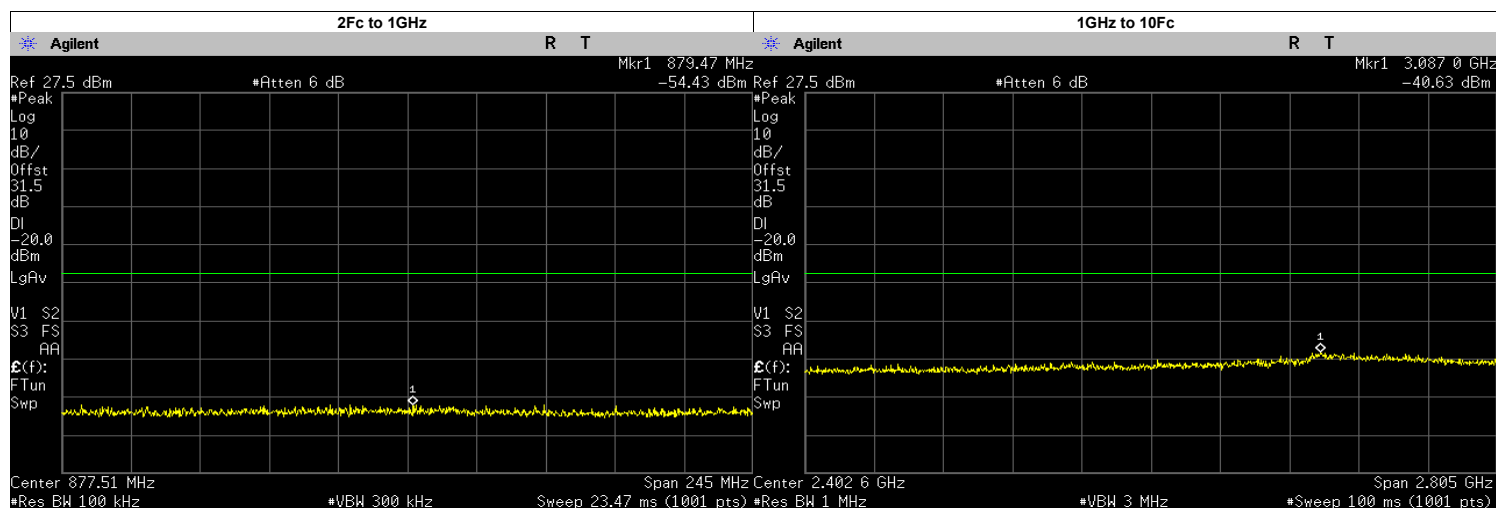
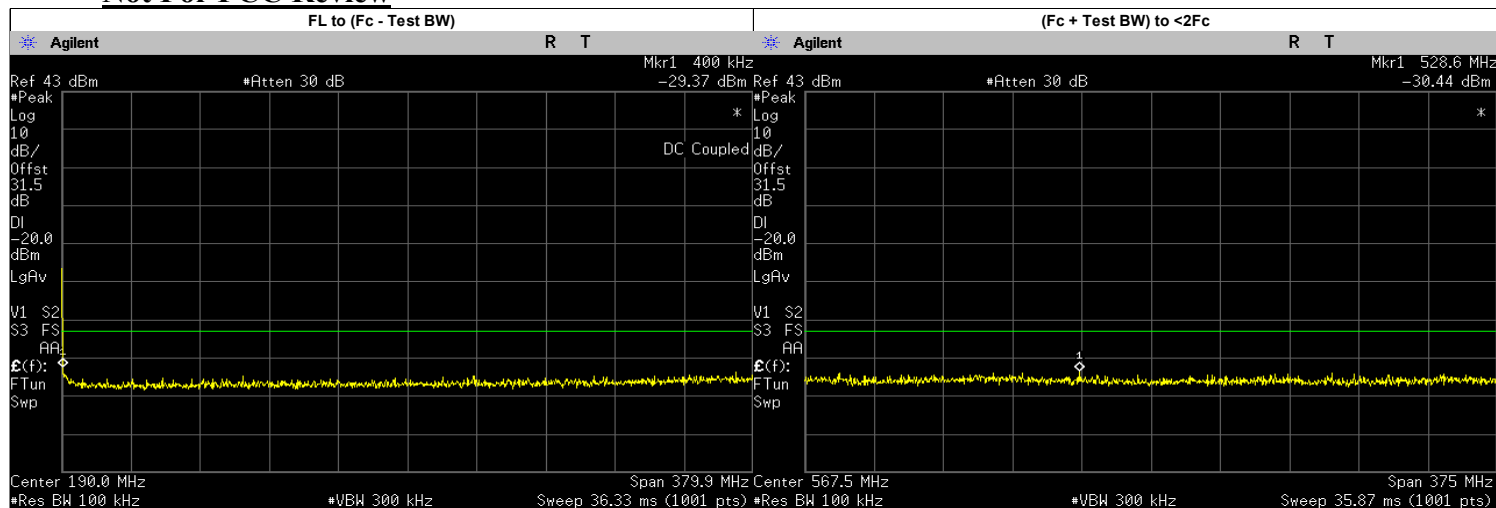
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.9000	-29.6100	-20.00	PASS
(Fc + Test BW) to <2Fc	467.4371	-32.4000	-20.00	PASS
2Fc to 1GHz	901.0929	-54.2600	-20.00	PASS
	859.9750	-56.0160	-20.00	PASS
1GHz to 10Fc	3230.7910	-40.9400	-20.00	PASS
	1289.9630	-45.3550	-20.00	PASS
	1719.9500	-45.5550	-20.00	PASS
	2149.9370	-43.8990	-20.00	PASS
	2579.9250	-44.5100	-20.00	PASS
	3009.9120	-43.6016	-20.00	PASS
	3439.9000	-43.1918	-20.00	PASS
	3869.8870	-43.8192	-20.00	PASS
	4299.8750	-44.4255	-20.00	PASS

C4FM: 434.9875 MHz, 12.5 kHz Channel Spacing, High Power
FCC Part 90, RSS 119



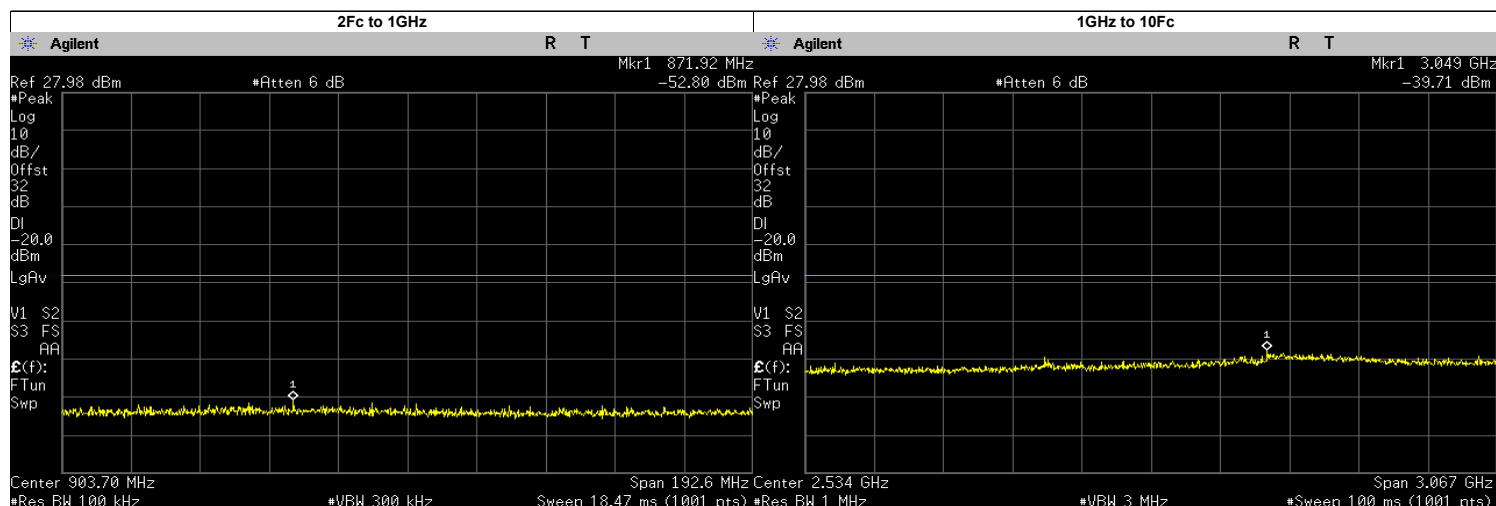
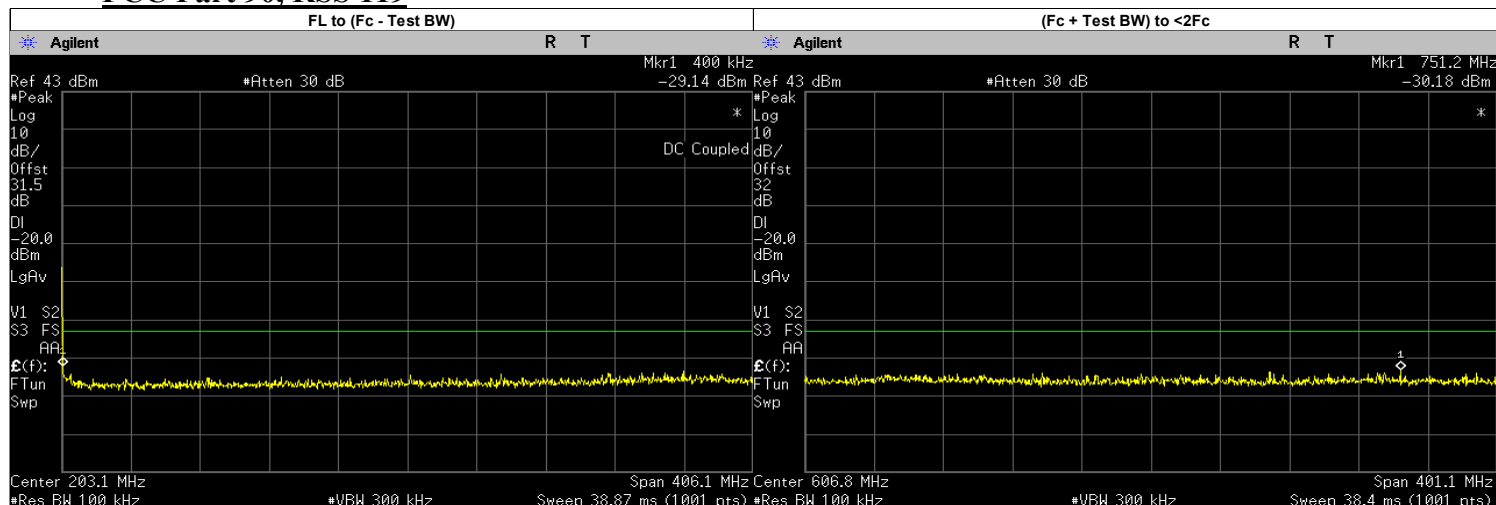
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.9000	-29.6900	-20.00	PASS
(Fc + Test BW) to <2Fc	538.2268	-30.5000	-20.00	PASS
2Fc to 1GHz	989.4680	-54.1200	-20.00	PASS
	869.9750	-56.4453	-20.00	PASS
1GHz to 10Fc	3066.6030	-40.7300	-20.00	PASS
	1304.9630	-45.6563	-20.00	PASS
	1739.9500	-44.9866	-20.00	PASS
	2174.9370	-44.8149	-20.00	PASS
	2609.9250	-44.3117	-20.00	PASS
	3044.9120	-42.9480	-20.00	PASS
	3479.9000	-42.8507	-20.00	PASS
	3914.8870	-43.8739	-20.00	PASS
	4349.8750	-43.5679	-20.00	PASS

C4FM: 380.0125 MHz, 12.5 kHz Channel Spacing, Low Power
Not For FCC Review



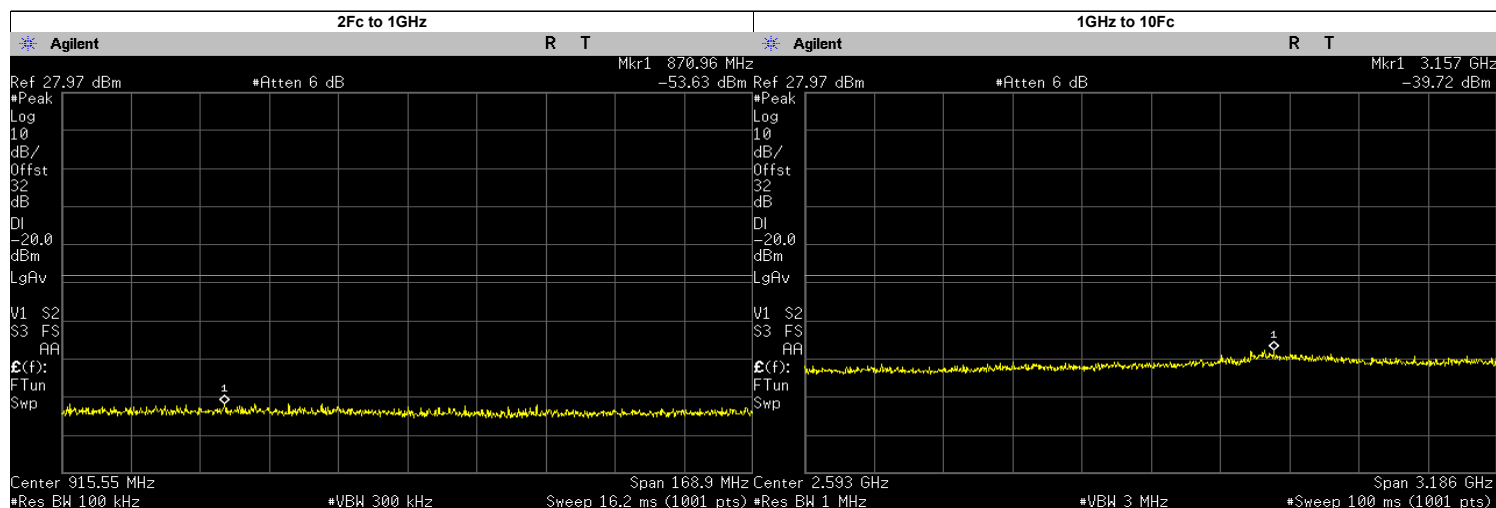
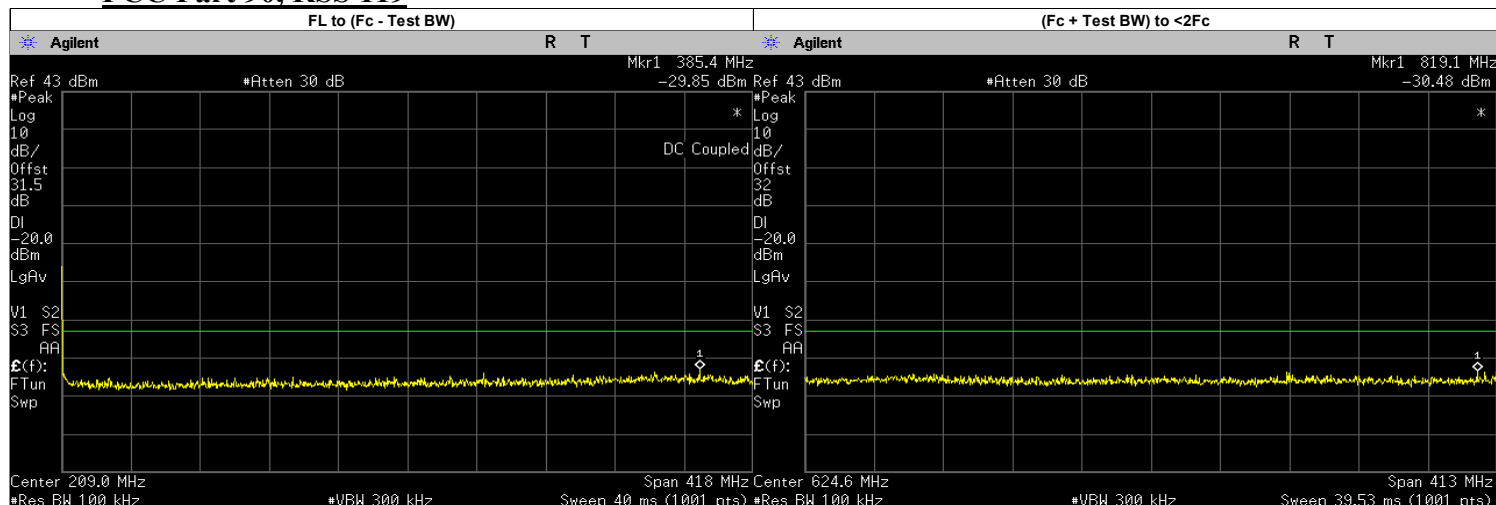
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-29.3700	-20.00	PASS
(Fc + Test BW) to <2Fc	528.5510	-30.4400	-20.00	PASS
2Fc to 1GHz	879.4723	-54.4300	-20.00	PASS
	760.0250	-56.5784	-20.00	PASS
1GHz to 10Fc	3087.0130	-40.6300	-20.00	PASS
	1140.0370	-45.4820	-20.00	PASS
	1520.0500	-45.3675	-20.00	PASS
	1900.0620	-45.2013	-20.00	PASS
	2280.0750	-44.8777	-20.00	PASS
	2660.0880	-44.1724	-20.00	PASS
	3040.1000	-42.6973	-20.00	PASS
	3420.1130	-42.6449	-20.00	PASS
	3800.1250	-43.6122	-20.00	PASS

C4FM: 406.2 MHz, 12.5 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



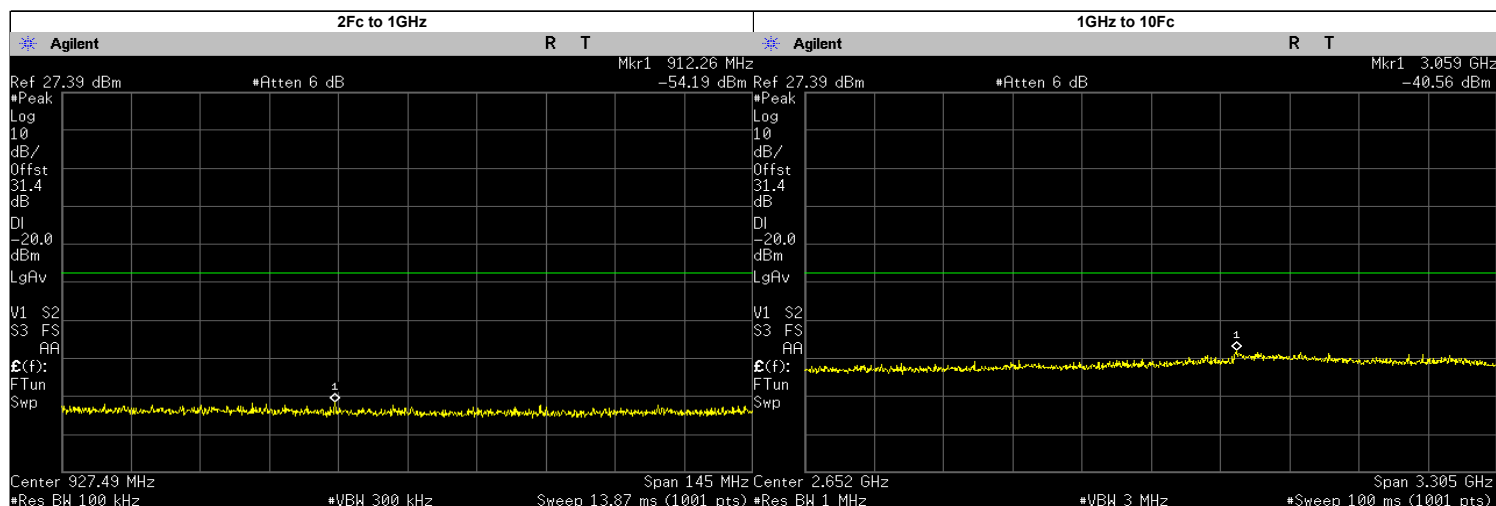
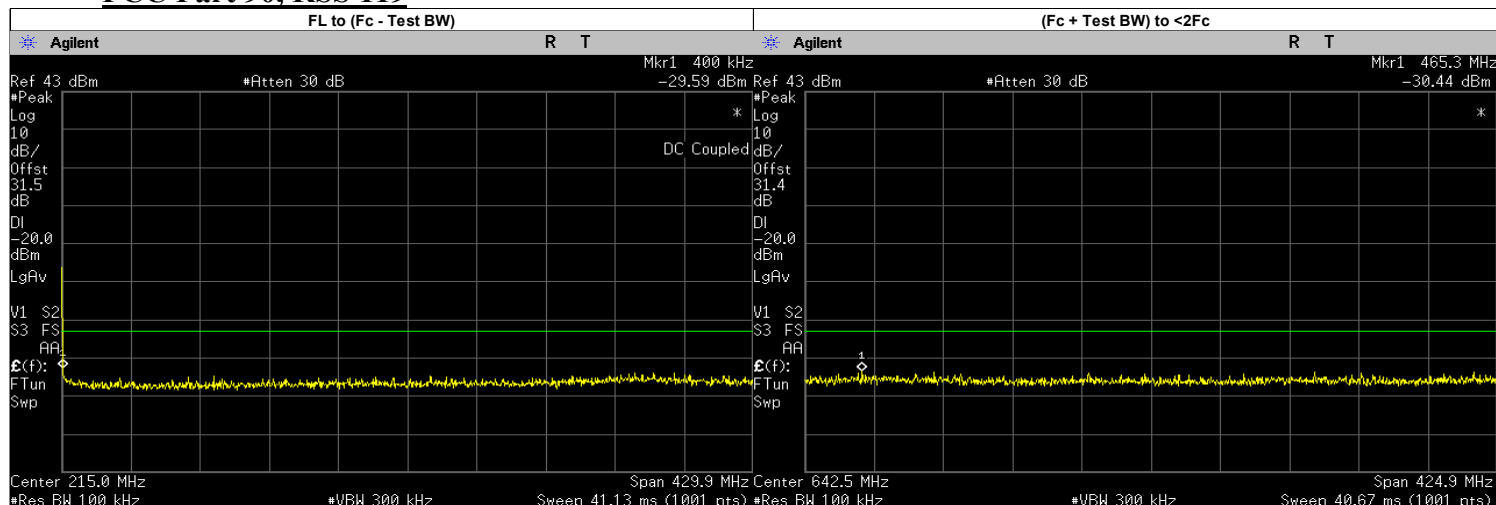
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-29.1400	-20.00	PASS
(Fc + Test BW) to <2Fc	751.2398	-30.1800	-20.00	PASS
2Fc to 1GHz	871.9210	-52.8000	-20.00	PASS
	812.4000	-56.5213	-20.00	PASS
1GHz to 10Fc	3048.7560	-39.7100	-20.00	PASS
	1218.6000	-45.0206	-20.00	PASS
	1624.8000	-44.8517	-20.00	PASS
	2031.0000	-44.4881	-20.00	PASS
	2437.2000	-43.6601	-20.00	PASS
	2843.4000	-43.4576	-20.00	PASS
	3249.6000	-42.0577	-20.00	PASS
	3655.8000	-42.8941	-20.00	PASS
	4062.0000	-42.8122	-20.00	PASS

C4FM: 418.05 MHz, 12.5 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



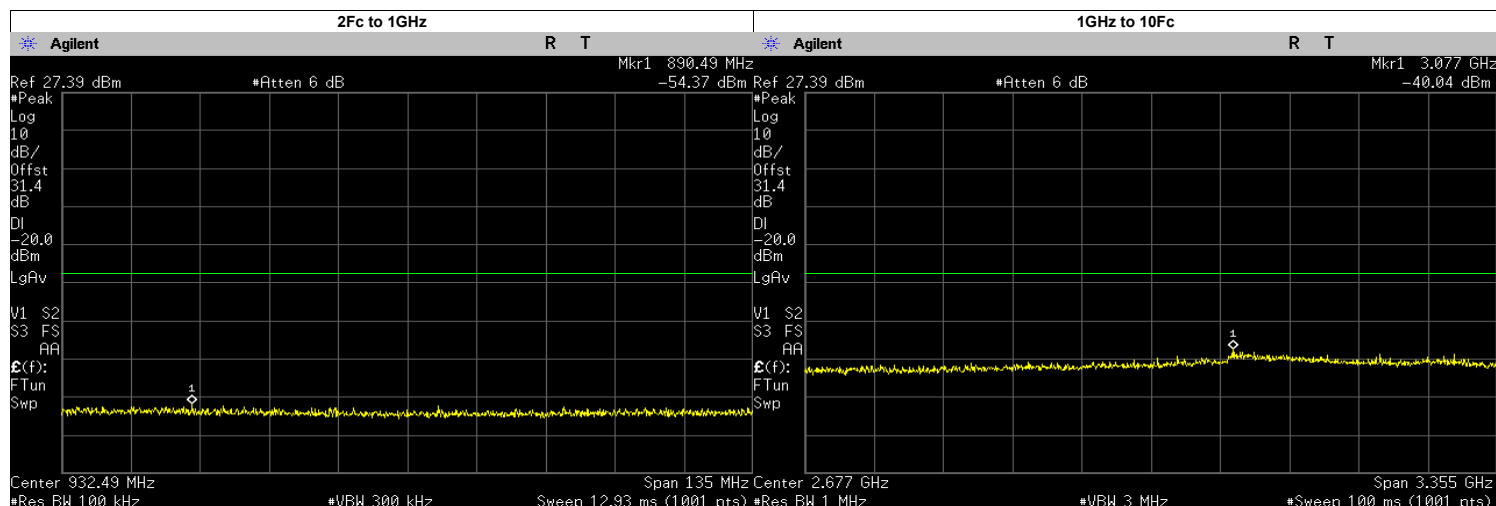
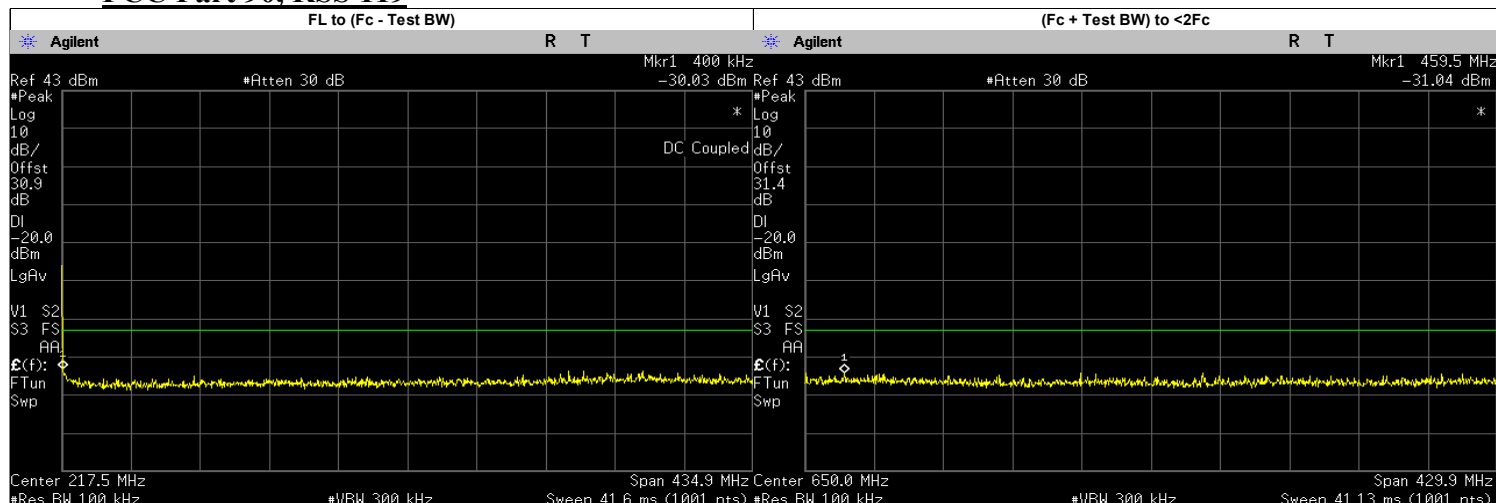
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	385.4000	-29.8500	-20.00	PASS
(Fc + Test BW) to <2Fc	819.1232	-30.4800	-20.00	PASS
2Fc to 1GHz	870.9604	-53.6300	-20.00	PASS
	836.1000	-54.9913	-20.00	PASS
1GHz to 10Fc	3156.5840	-39.7200	-20.00	PASS
	1254.1500	-45.3137	-20.00	PASS
	1672.2000	-44.2548	-20.00	PASS
	2090.2500	-43.9484	-20.00	PASS
	2508.3000	-43.9002	-20.00	PASS
	2926.3500	-42.5220	-20.00	PASS
	3344.4000	-42.0243	-20.00	PASS
	3762.4500	-43.2968	-20.00	PASS
	4180.5000	-42.4218	-20.00	PASS

C4FM: 429.9875 MHz, 12.5 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



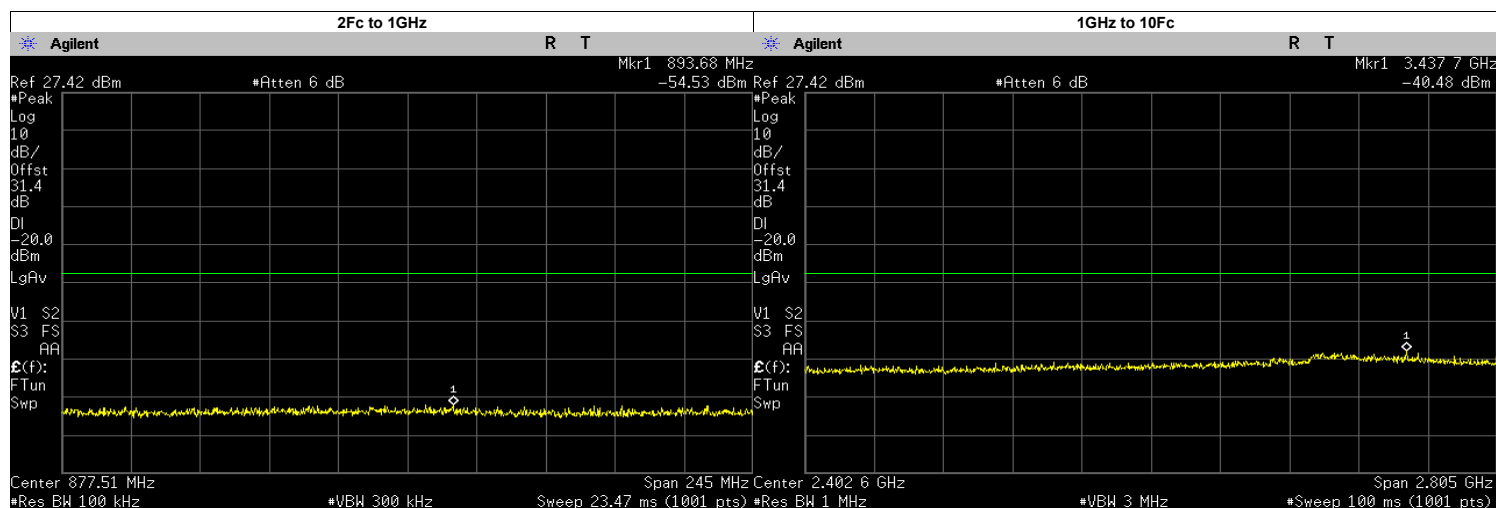
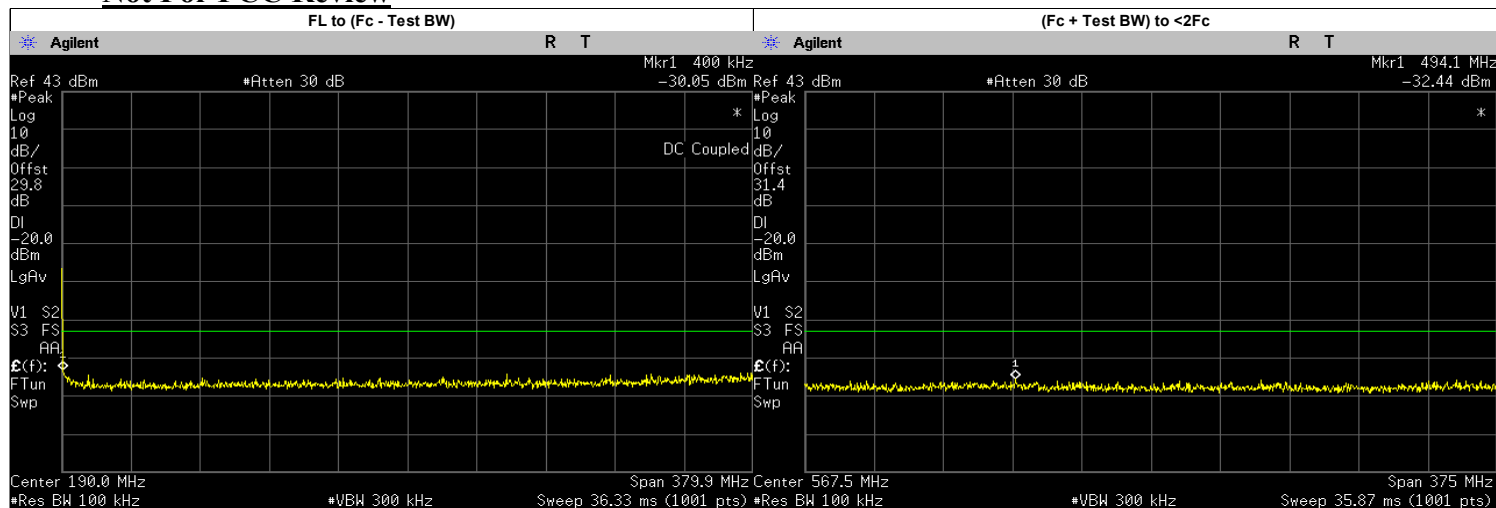
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-29.5900	-20.00	PASS
(Fc + Test BW) to <2Fc	465.3125	-30.4400	-20.00	PASS
2Fc to 1GHz	912.2599	-54.1900	-20.00	PASS
	859.9750	-55.6262	-20.00	PASS
1GHz to 10Fc	3058.9370	-40.5600	-20.00	PASS
	1289.9630	-45.3994	-20.00	PASS
	1719.9500	-45.6390	-20.00	PASS
	2149.9370	-44.8652	-20.00	PASS
	2579.9250	-44.3710	-20.00	PASS
	3009.9120	-43.4452	-20.00	PASS
	3439.9000	-43.0610	-20.00	PASS
	3869.8870	-43.5405	-20.00	PASS
	4299.8750	-44.1303	-20.00	PASS

C4FM: 434.9875 MHz, 12.5 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



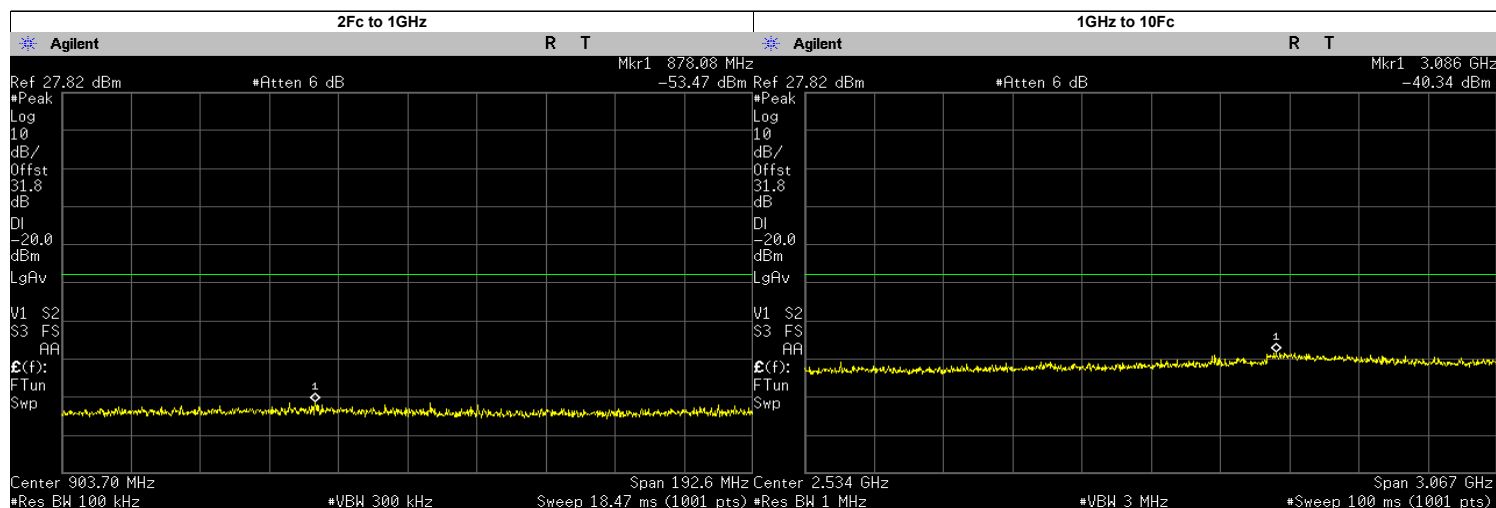
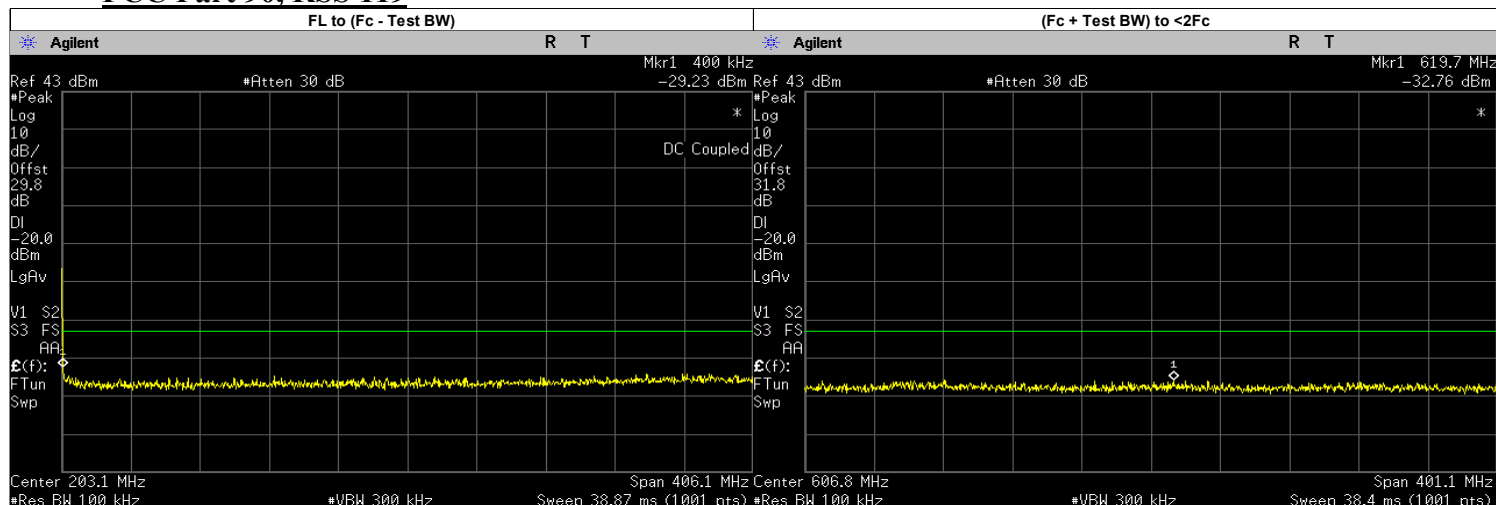
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-30.0300	-20.00	PASS
(Fc + Test BW) to <2Fc	459.5492	-31.0400	-20.00	PASS
2Fc to 1GHz	890.4947	-54.3700	-20.00	PASS
	869.9750	-55.3577	-20.00	PASS
1GHz to 10Fc	3076.6680	-40.0400	-20.00	PASS
	1304.9630	-45.2656	-20.00	PASS
	1739.9500	-45.3865	-20.00	PASS
	2174.9370	-45.0889	-20.00	PASS
	2609.9250	-45.1278	-20.00	PASS
	3044.9120	-43.5500	-20.00	PASS
	3479.9000	-42.5438	-20.00	PASS
	3914.8870	-43.4108	-20.00	PASS
	4349.8750	-43.9224	-20.00	PASS

Phase II: 380.0125 MHz, 12.5 kHz Channel Spacing, High Power
Not For FCC Review



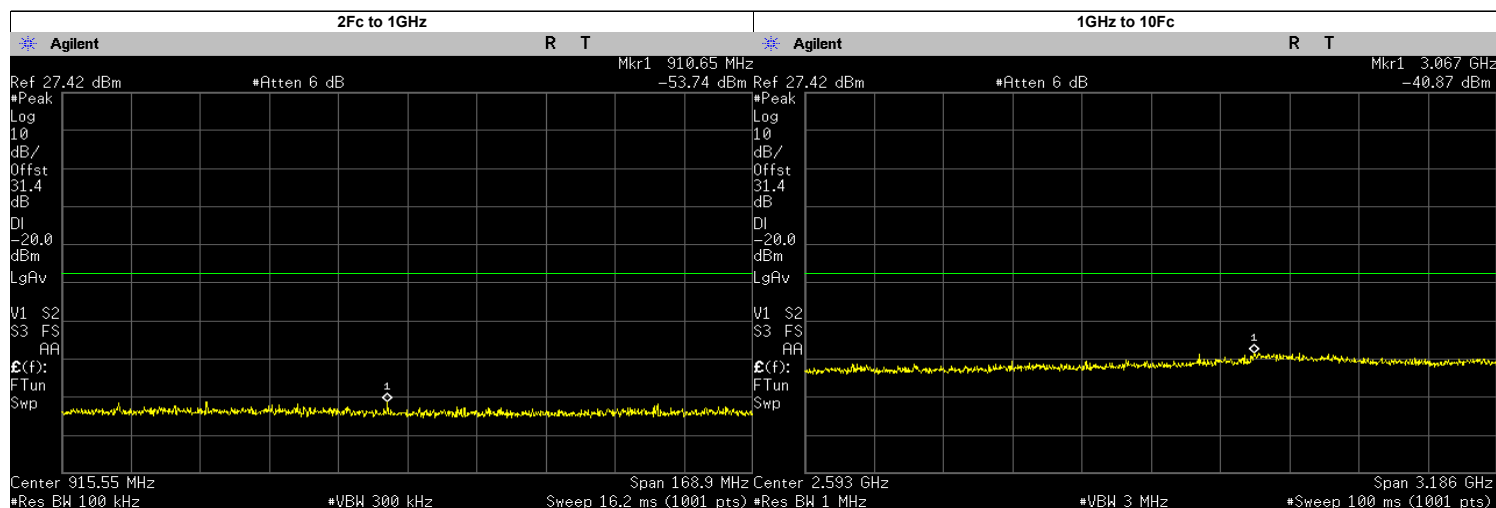
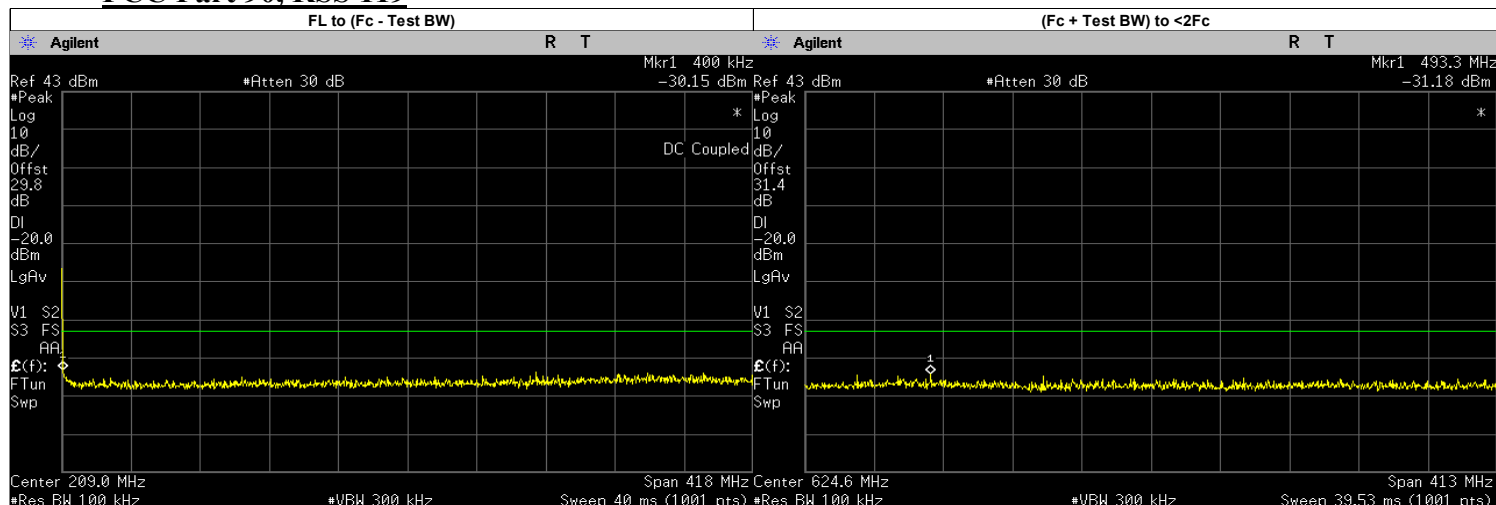
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-30.0500	-20.00	PASS
(Fc + Test BW) to <2Fc	494.0550	-32.4400	-20.00	PASS
2Fc to 1GHz	893.6808	-54.5300	-20.00	PASS
	760.0250	-55.9355	-20.00	PASS
1GHz to 10Fc	3437.6540	-40.4800	-20.00	PASS
	1140.0370	-45.1994	-20.00	PASS
	1520.0500	-45.5423	-20.00	PASS
	1900.0620	-44.8332	-20.00	PASS
	2280.0750	-44.8066	-20.00	PASS
	2660.0880	-43.6538	-20.00	PASS
	3040.1000	-42.8903	-20.00	PASS
	3420.1130	-42.4154	-20.00	PASS
	3800.1250	-43.4629	-20.00	PASS

**Phase II: 406.2 MHz, 12.5 kHz Channel Spacing, High Power
FCC Part 90, RSS 119**



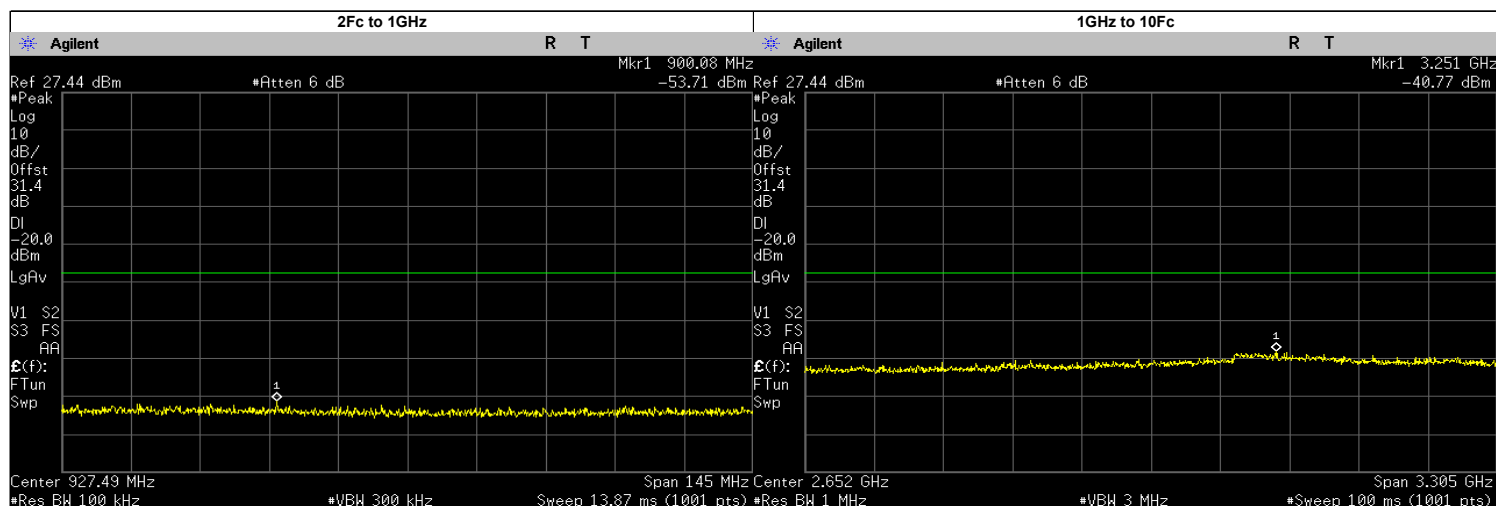
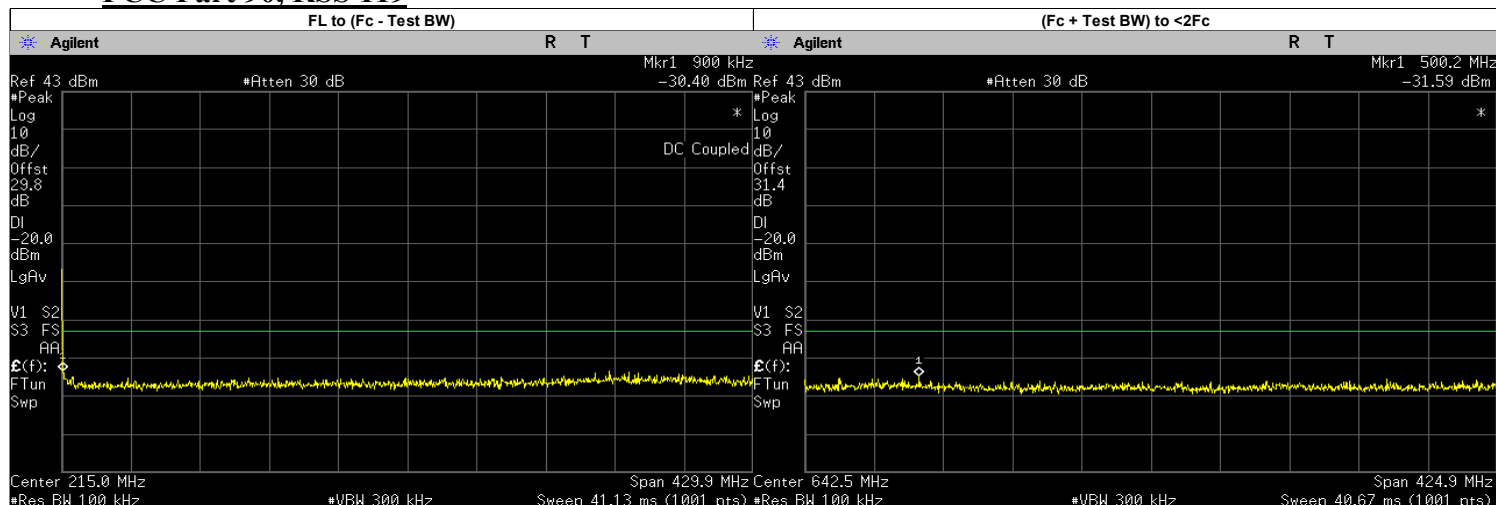
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-29.2300	-20.00	PASS
(Fc + Test BW) to <2Fc	619.6644	-32.7600	-20.00	PASS
2Fc to 1GHz	878.0842	-53.4700	-20.00	PASS
	812.4000	-55.9715	-20.00	PASS
1GHz to 10Fc	3085.5600	-40.3400	-20.00	PASS
	1218.6000	-45.0888	-20.00	PASS
	1624.8000	-45.3217	-20.00	PASS
	2031.0000	-43.9792	-20.00	PASS
	2437.2000	-44.1920	-20.00	PASS
	2843.4000	-43.0487	-20.00	PASS
	3249.6000	-41.9946	-20.00	PASS
	3655.8000	-42.8544	-20.00	PASS
	4062.0000	-43.1939	-20.00	PASS

Phase II: 418.05 MHz, 12.5 kHz Channel Spacing, High Power
FCC Part 90, RSS 119



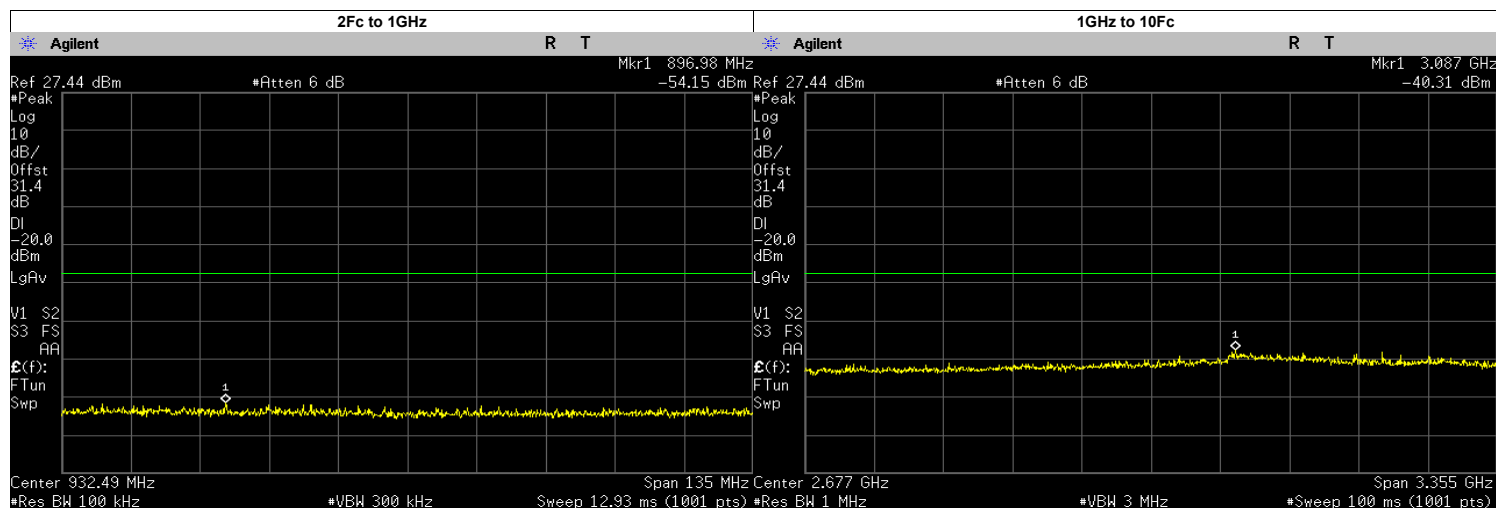
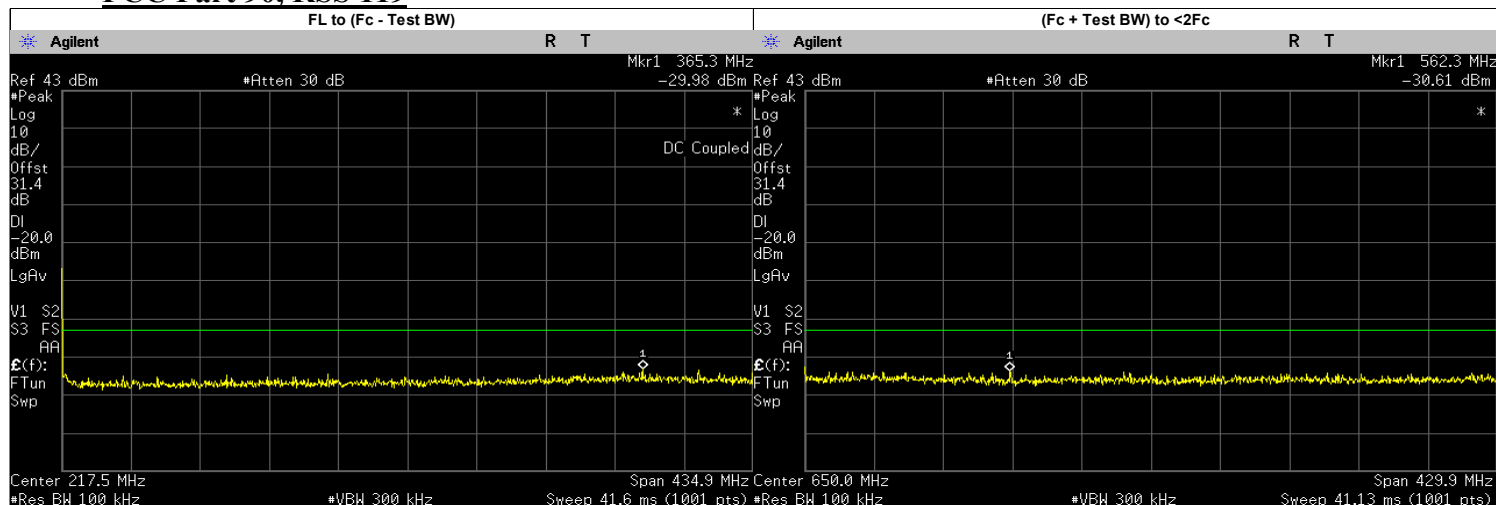
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-30.1500	-20.00	PASS
(Fc + Test BW) to <2Fc	493.2706	-31.1800	-20.00	PASS
2Fc to 1GHz	910.6519	-53.7400	-20.00	PASS
	836.1000	-56.2093	-20.00	PASS
1GHz to 10Fc	3067.3900	-40.8700	-20.00	PASS
	1254.1500	-45.5286	-20.00	PASS
	1672.2000	-44.3350	-20.00	PASS
	2090.2500	-44.7425	-20.00	PASS
	2508.3000	-44.0194	-20.00	PASS
	2926.3500	-43.0830	-20.00	PASS
	3344.4000	-42.4587	-20.00	PASS
	3762.4500	-43.9063	-20.00	PASS
	4180.5000	-43.4527	-20.00	PASS

**Phase II: 429.9875 MHz, 12.5 kHz Channel Spacing, High Power
FCC Part 90, RSS 119**



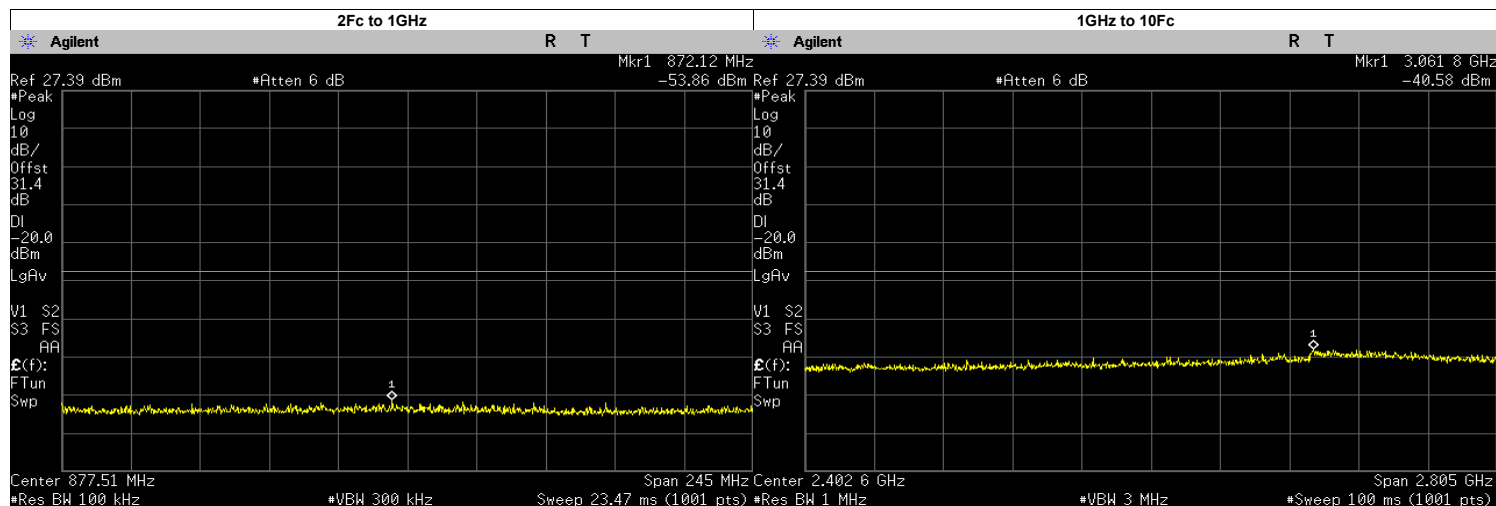
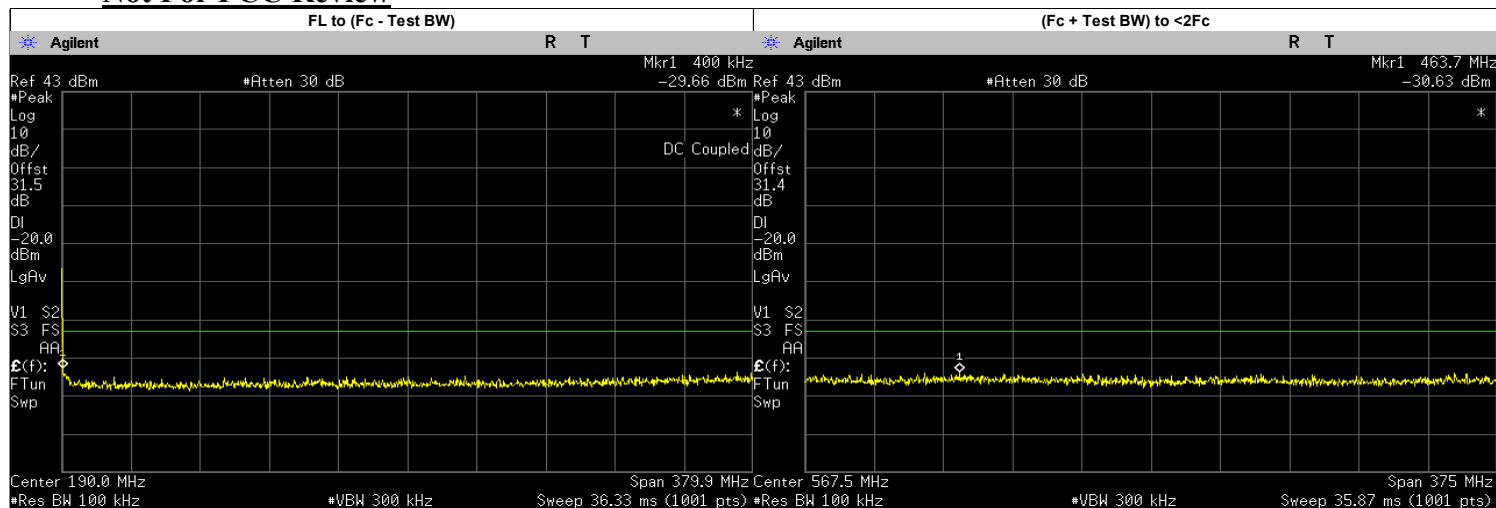
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.9000	-30.4000	-20.00	PASS
(Fc + Test BW) to <2Fc	500.1569	-31.5900	-20.00	PASS
2Fc to 1GHz	900.0778	-53.7100	-20.00	PASS
	859.9750	-55.8419	-20.00	PASS
1GHz to 10Fc	3250.6200	-40.7700	-20.00	PASS
	1289.9630	-45.6638	-20.00	PASS
	1719.9500	-44.9550	-20.00	PASS
	2149.9370	-45.6589	-20.00	PASS
	2579.9250	-44.6196	-20.00	PASS
	3009.9120	-43.5583	-20.00	PASS
	3439.9000	-42.2108	-20.00	PASS
	3869.8870	-43.5432	-20.00	PASS
	4299.8750	-44.0329	-20.00	PASS

**Phase II: 434.9875 MHz, 12.5 kHz Channel Spacing, High Power
FCC Part 90, RSS 119**



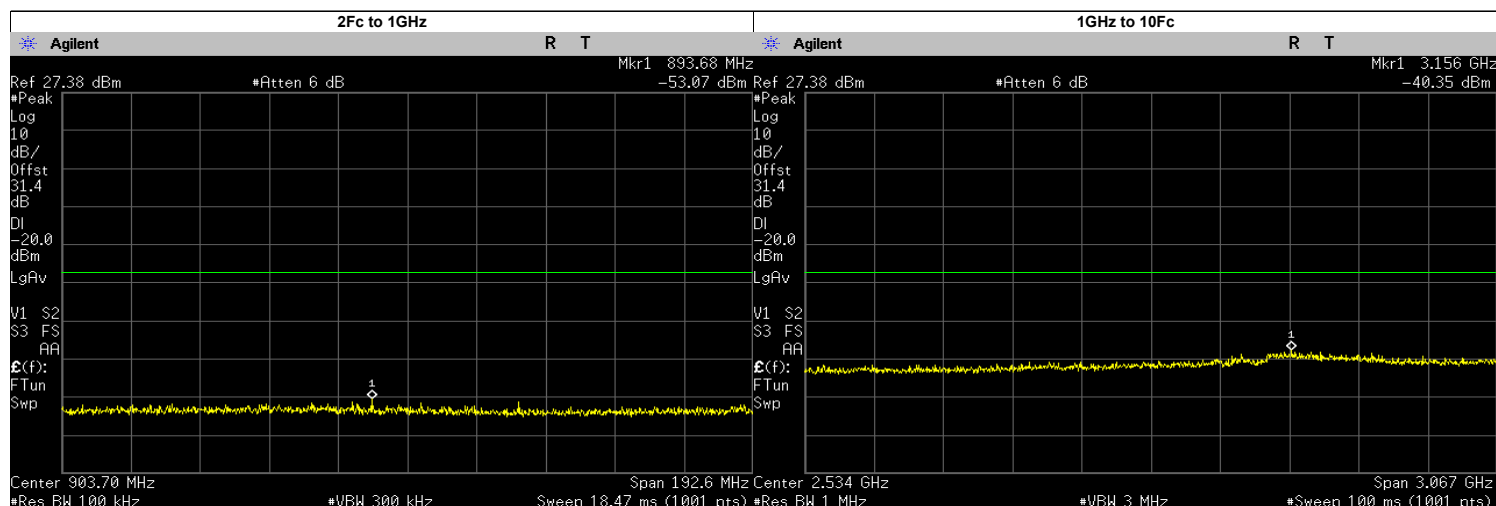
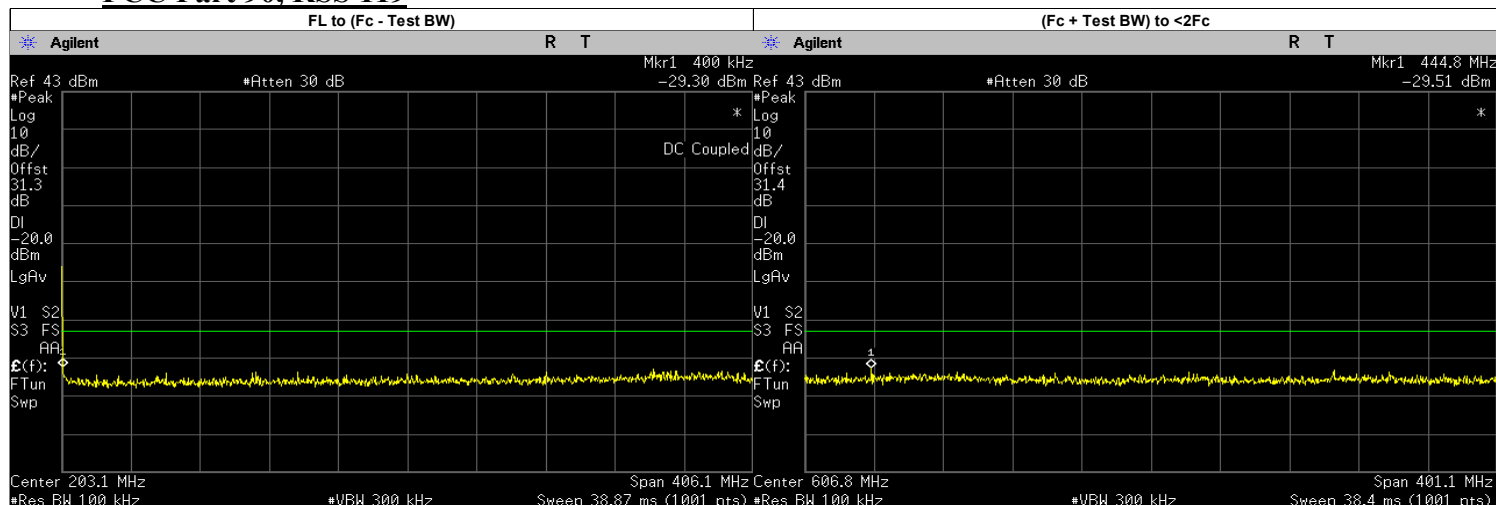
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	365.3442	-29.9800	-20.00	PASS
(Fc + Test BW) to <2Fc	562.3030	-30.6100	-20.00	PASS
2Fc to 1GHz	896.9759	-54.1500	-20.00	PASS
	869.9750	-55.8700	-20.00	PASS
1GHz to 10Fc	3086.7320	-40.3100	-20.00	PASS
	1304.9630	-45.5184	-20.00	PASS
	1739.9500	-45.5049	-20.00	PASS
	2174.9370	-44.6499	-20.00	PASS
	2609.9250	-44.4272	-20.00	PASS
	3044.9120	-43.4548	-20.00	PASS
	3479.9000	-43.1718	-20.00	PASS
	3914.8870	-43.9734	-20.00	PASS
	4349.8750	-43.7562	-20.00	PASS

Phase II: 380.0125 MHz, 12.5 kHz Channel Spacing, Low Power
Not For FCC Review



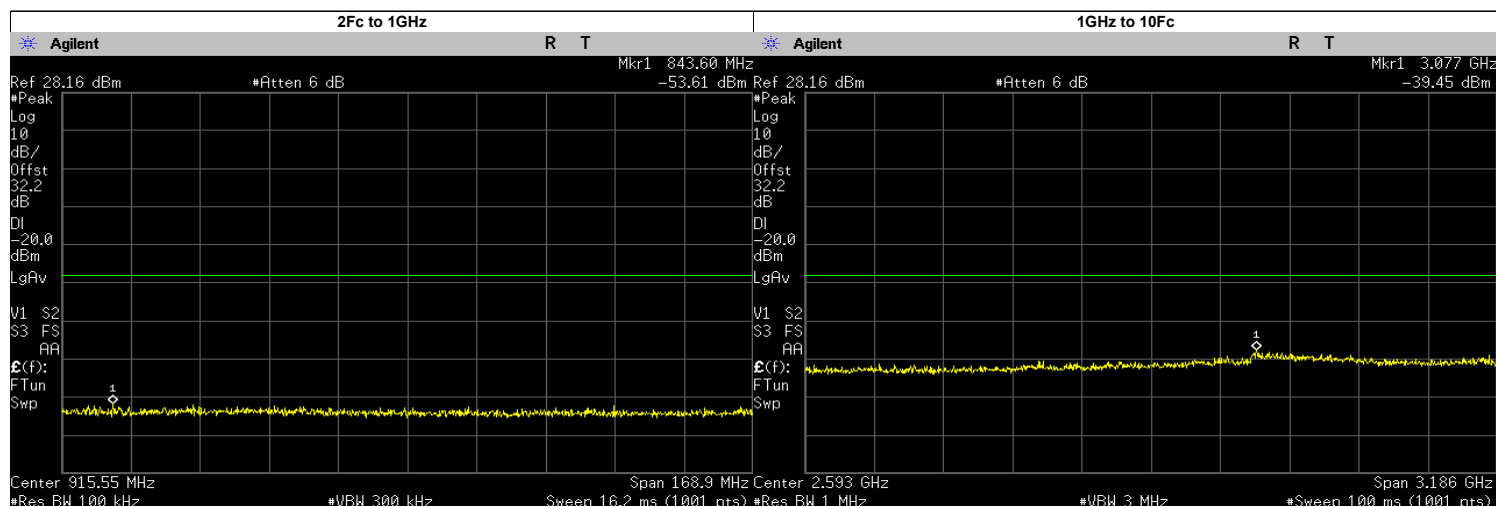
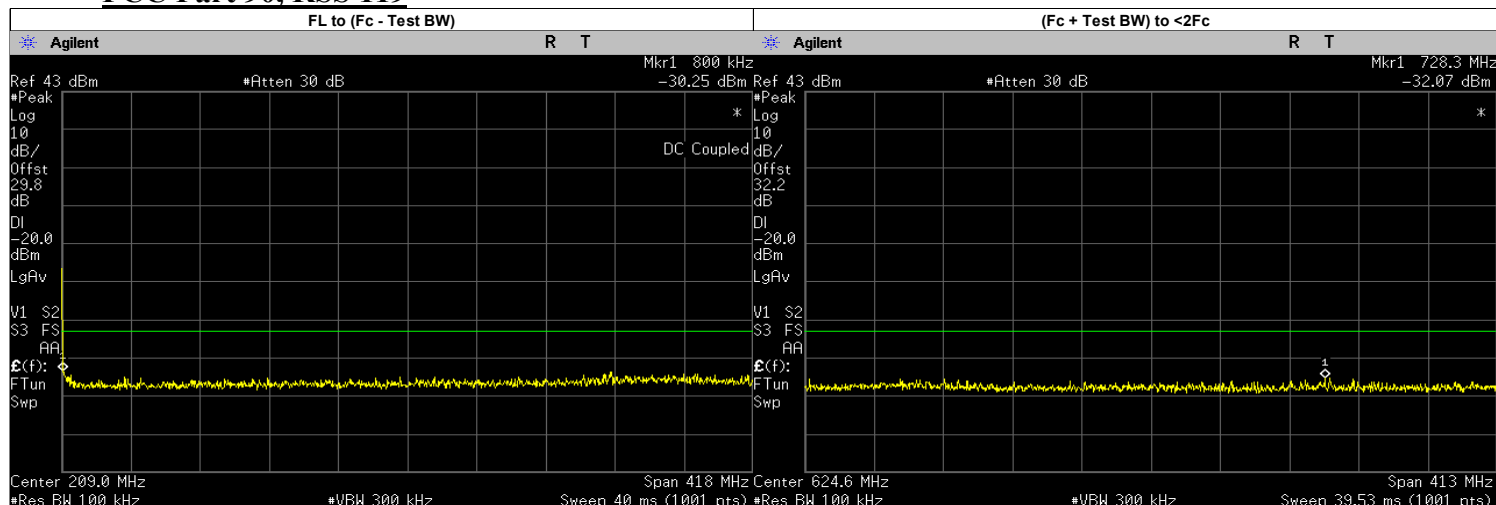
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-29.6600	-20.00	PASS
(Fc + Test BW) to <2Fc	463.6835	-30.6300	-20.00	PASS
2Fc to 1GHz	872.1231	-53.8600	-20.00	PASS
	760.0250	-57.1520	-20.00	PASS
1GHz to 10Fc	3061.7670	-40.5800	-20.00	PASS
	1140.0370	-45.1183	-20.00	PASS
	1520.0500	-45.3868	-20.00	PASS
	1900.0620	-44.7294	-20.00	PASS
	2280.0750	-44.3039	-20.00	PASS
	2660.0880	-44.2842	-20.00	PASS
	3040.1000	-42.8119	-20.00	PASS
	3420.1130	-42.6817	-20.00	PASS
	3800.1250	-42.5384	-20.00	PASS

**Phase II: 406.2 MHz, 12.5 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119**



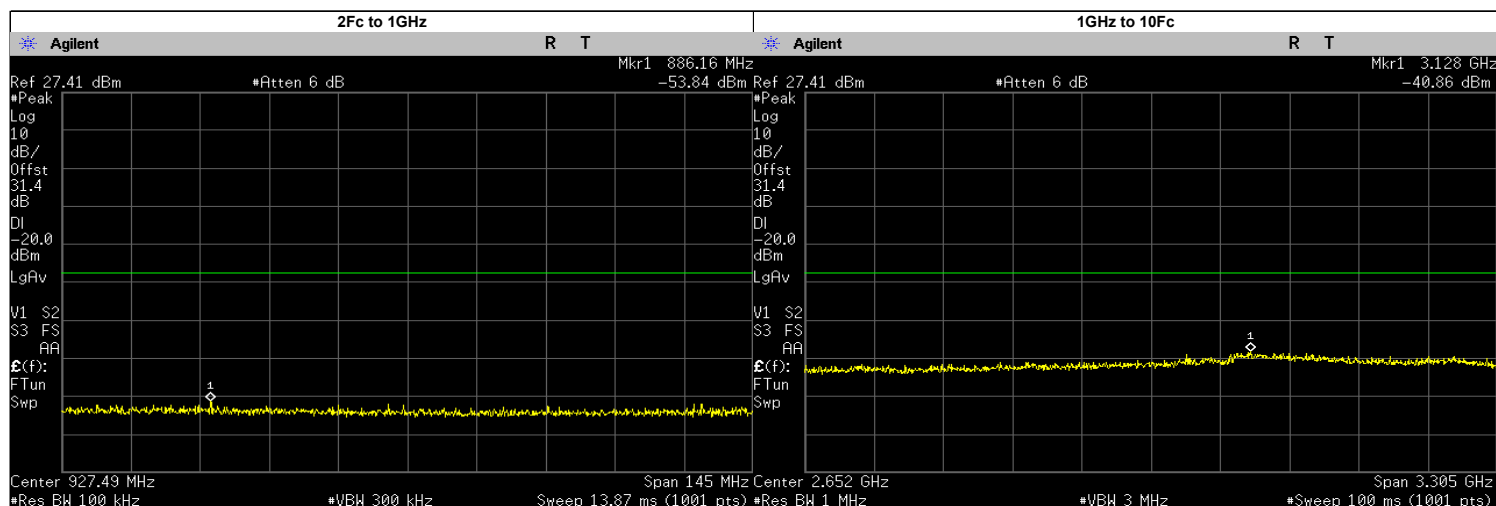
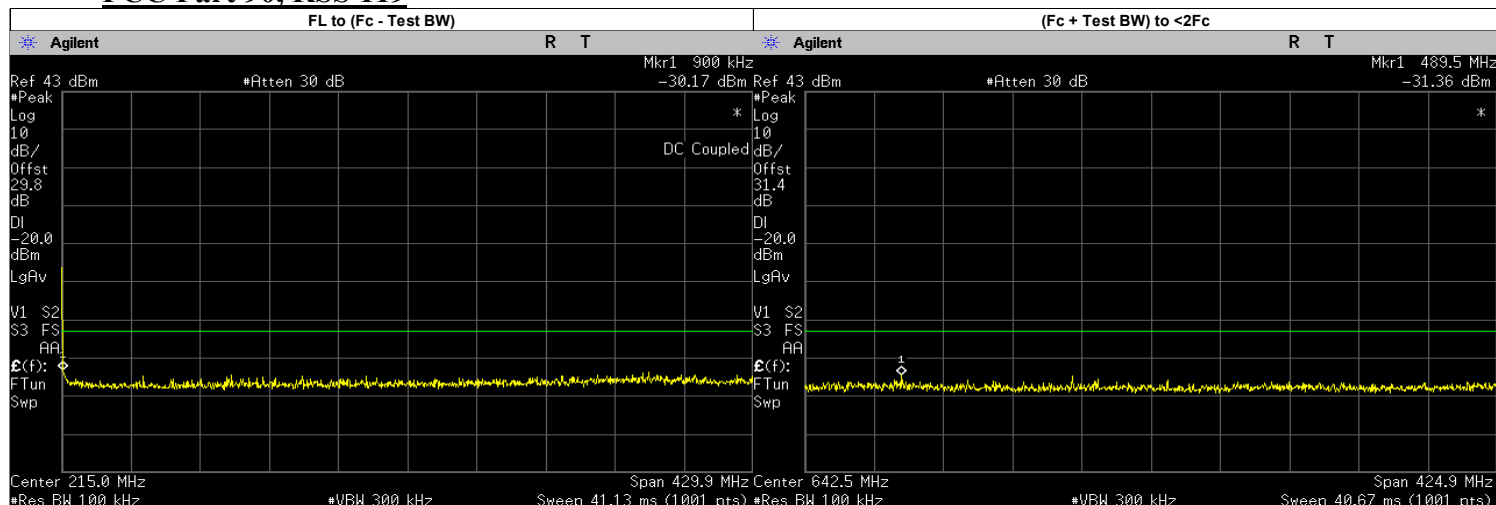
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-29.3000	-20.00	PASS
(Fc + Test BW) to <2Fc	444.7655	-29.5100	-20.00	PASS
2Fc to 1GHz	893.6848	-53.0700	-20.00	PASS
	812.4000	-56.9570	-20.00	PASS
1GHz to 10Fc	3156.1010	-40.3500	-20.00	PASS
	1218.6000	-45.1168	-20.00	PASS
	1624.8000	-45.3342	-20.00	PASS
	2031.0000	-44.9563	-20.00	PASS
	2437.2000	-44.4058	-20.00	PASS
	2843.4000	-43.2055	-20.00	PASS
	3249.6000	-42.2887	-20.00	PASS
	3655.8000	-43.9539	-20.00	PASS
	4062.0000	-43.5839	-20.00	PASS

**Phase II: 418.05 MHz, 12.5 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119**



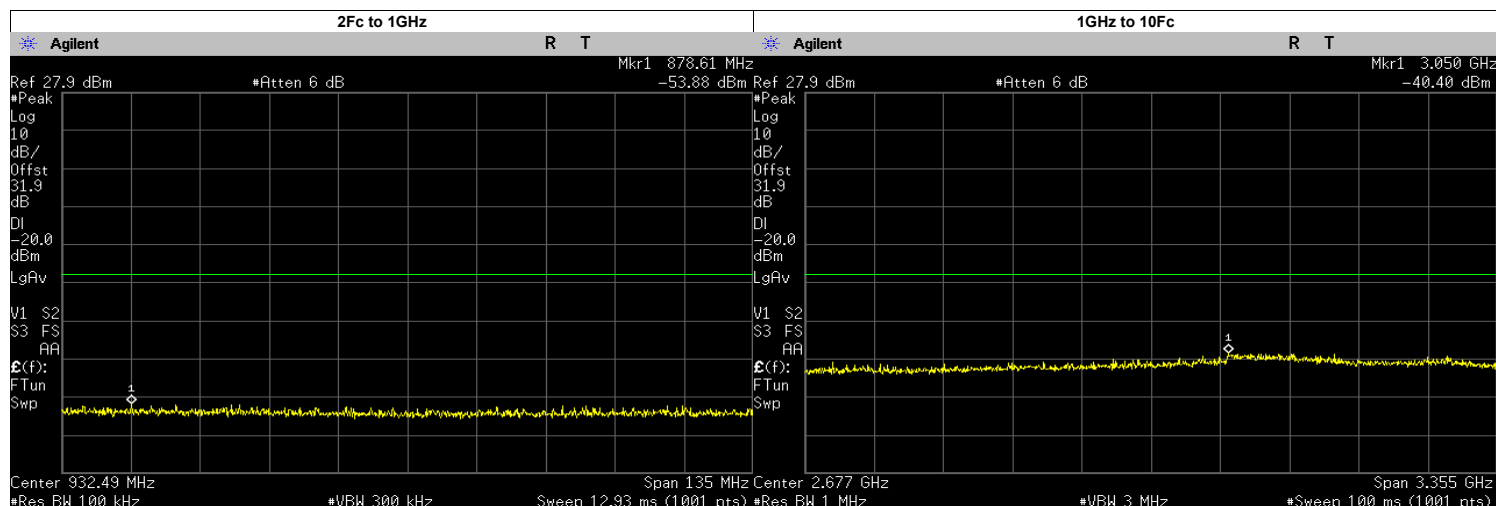
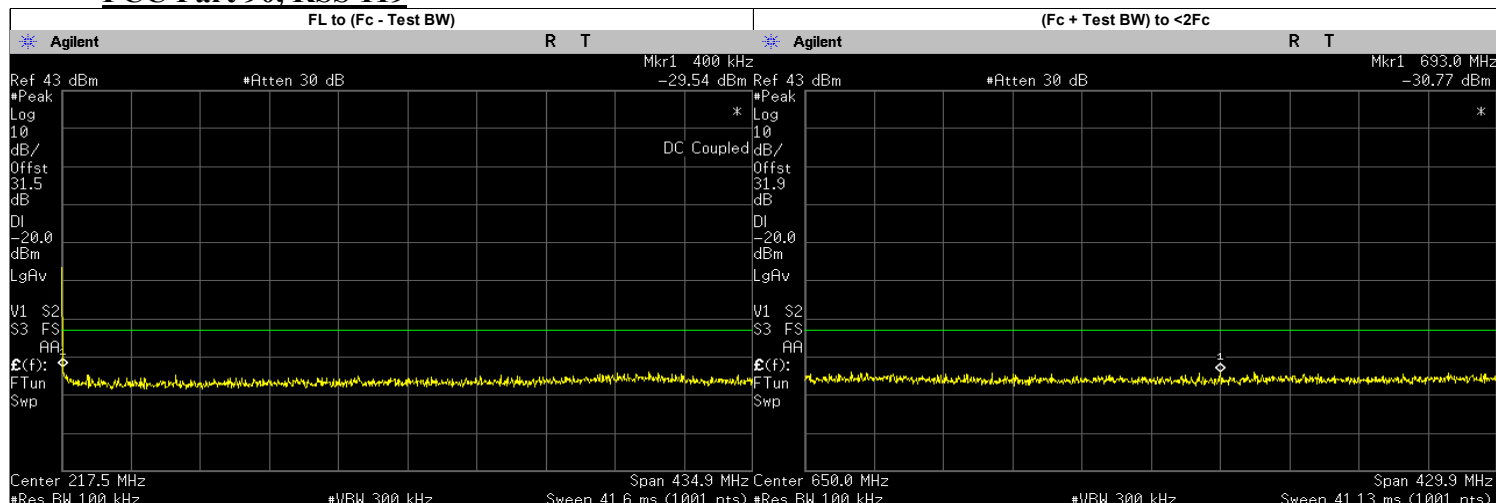
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.8000	-30.2500	-20.00	PASS
(Fc + Test BW) to <2Fc	728.2644	-32.0700	-20.00	PASS
2Fc to 1GHz	843.5986	-53.6100	-20.00	PASS
	836.1000	-55.6462	-20.00	PASS
1GHz to 10Fc	3076.9460	-39.4500	-20.00	PASS
	1254.1500	-44.5655	-20.00	PASS
	1672.2000	-45.3017	-20.00	PASS
	2090.2500	-44.0063	-20.00	PASS
	2508.3000	-43.8651	-20.00	PASS
	2926.3500	-42.1502	-20.00	PASS
	3344.4000	-41.8799	-20.00	PASS
	3762.4500	-43.0752	-20.00	PASS
	4180.5000	-42.5171	-20.00	PASS

**Phase II: 429.9875 MHz, 12.5 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119**



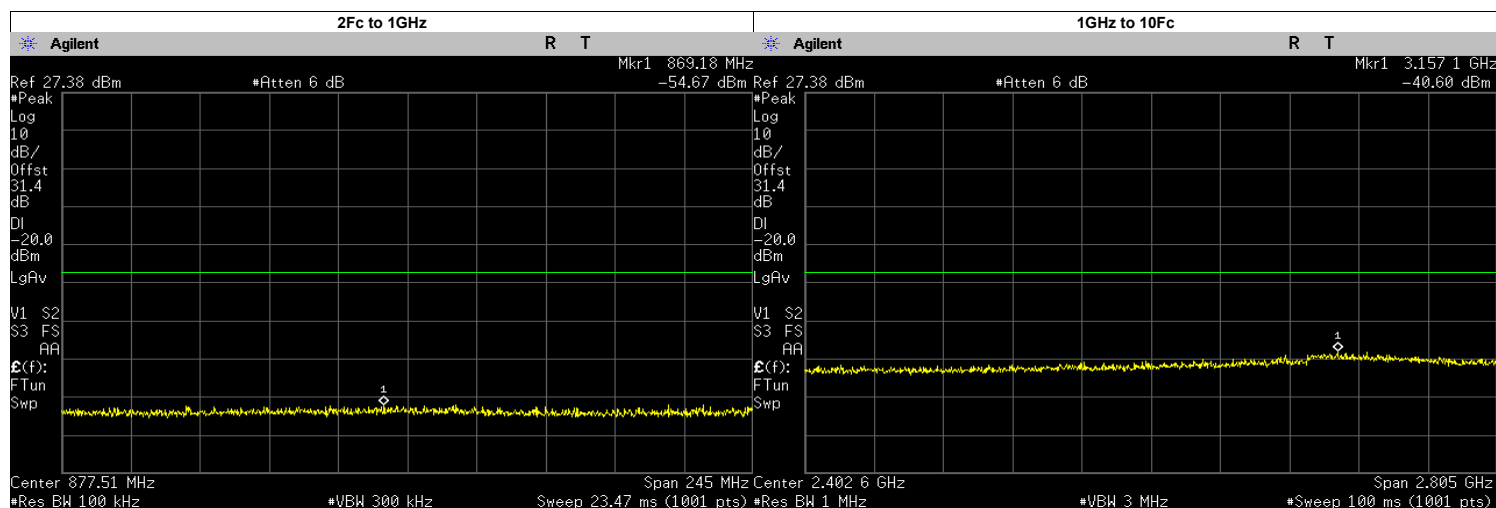
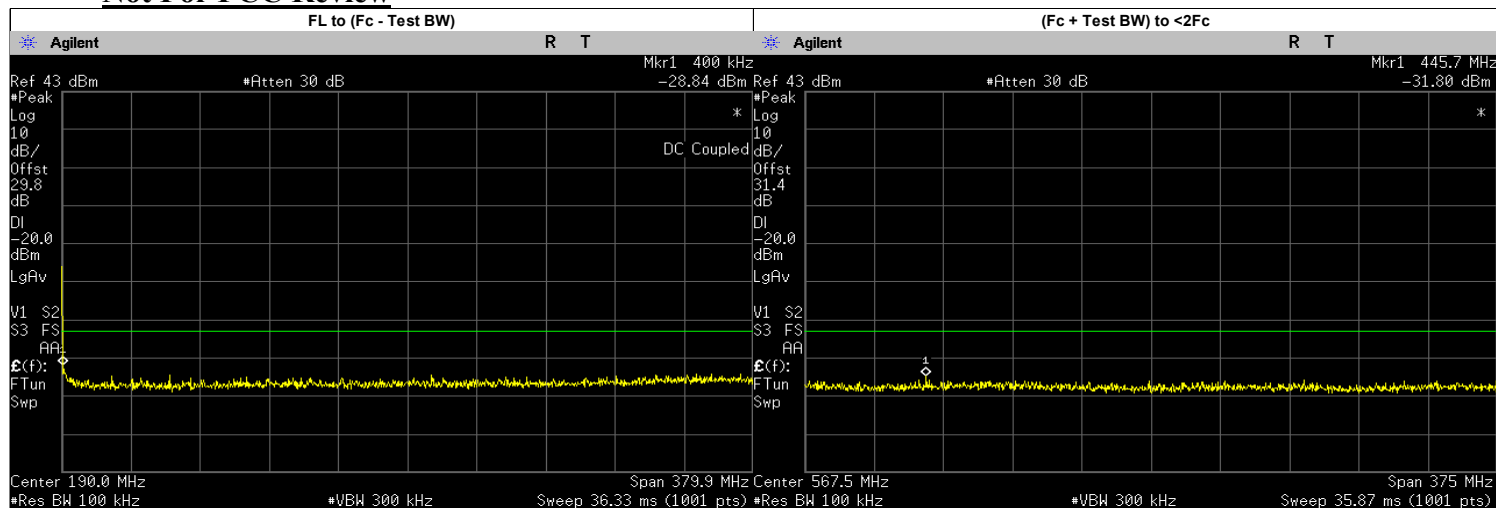
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.9000	-30.1700	-20.00	PASS
(Fc + Test BW) to <2Fc	489.5336	-31.3600	-20.00	PASS
2Fc to 1GHz	886.1554	-53.8400	-20.00	PASS
	859.9750	-56.0006	-20.00	PASS
1GHz to 10Fc	3128.3400	-40.8600	-20.00	PASS
	1289.9630	-45.9555	-20.00	PASS
	1719.9500	-45.3760	-20.00	PASS
	2149.9370	-44.3101	-20.00	PASS
	2579.9250	-44.2486	-20.00	PASS
	3009.9120	-43.2351	-20.00	PASS
	3439.9000	-43.2412	-20.00	PASS
	3869.8870	-44.2638	-20.00	PASS
	4299.8750	-44.6697	-20.00	PASS

**Phase II: 434.9875 MHz, 12.5 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119**



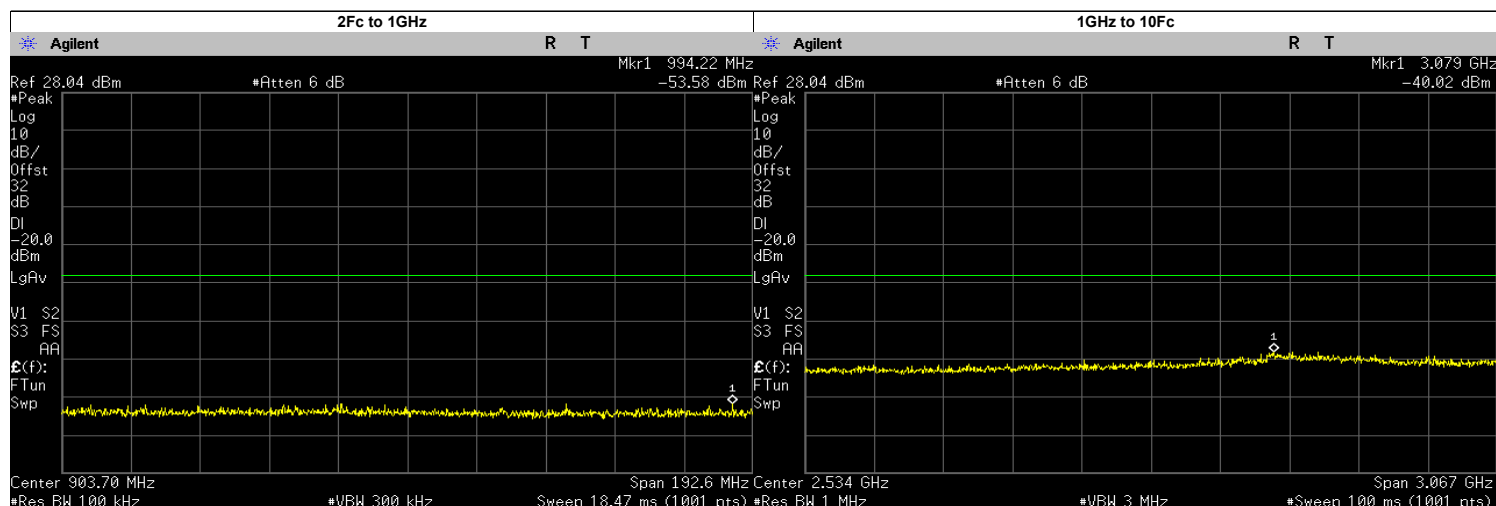
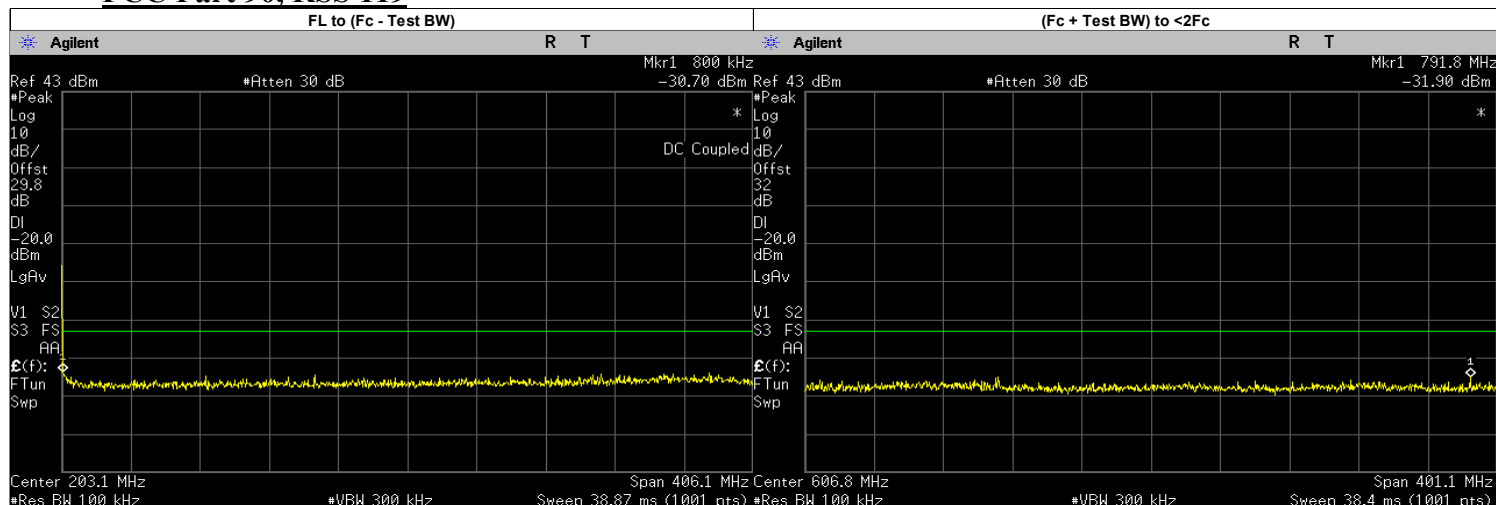
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-29.5400	-20.00	PASS
(Fc + Test BW) to <2Fc	693.0023	-30.7700	-20.00	PASS
2Fc to 1GHz	878.6125	-53.8800	-20.00	PASS
	869.9750	-55.9565	-20.00	PASS
1GHz to 10Fc	3049.8290	-40.4000	-20.00	PASS
	1304.9630	-43.7180	-20.00	PASS
	1739.9500	-44.2447	-20.00	PASS
	2174.9370	-44.6646	-20.00	PASS
	2609.9250	-43.2800	-20.00	PASS
	3044.9120	-42.1533	-20.00	PASS
	3479.9000	-42.2002	-20.00	PASS
	3914.8870	-43.1305	-20.00	PASS
	4349.8750	-43.5855	-20.00	PASS

LSM: 380.0125 MHz, 12.5 kHz Channel Spacing, High Power
Not For FCC Review



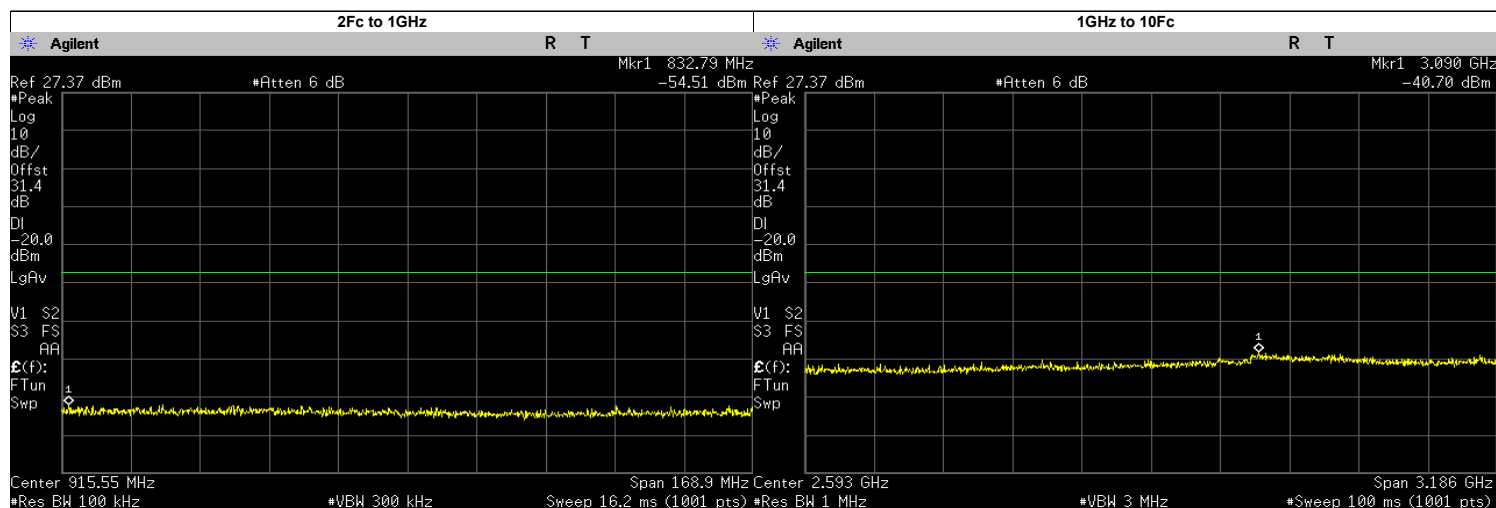
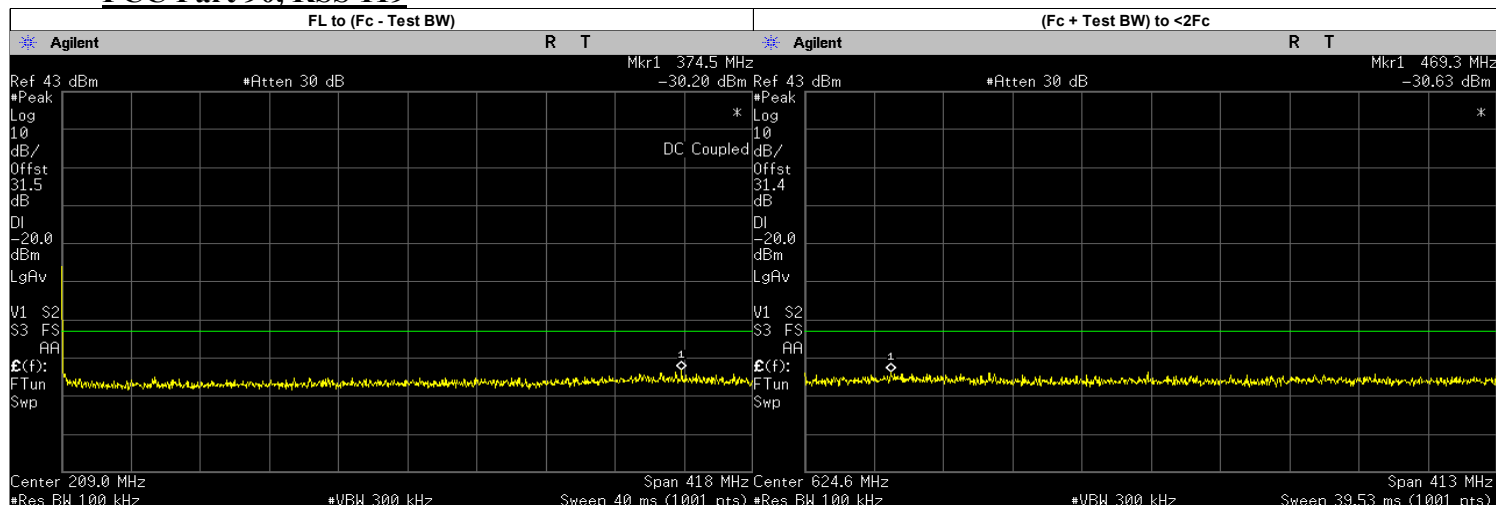
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-28.8400	-20.00	PASS
(Fc + Test BW) to <2Fc	445.6856	-31.8000	-20.00	PASS
2Fc to 1GHz	869.1834	-54.6700	-20.00	PASS
	760.0250	-56.0106	-20.00	PASS
1GHz to 10Fc	3157.1410	-40.6000	-20.00	PASS
	1140.0370	-45.7959	-20.00	PASS
	1520.0500	-45.9043	-20.00	PASS
	1900.0620	-45.3863	-20.00	PASS
	2280.0750	-44.7704	-20.00	PASS
	2660.0880	-44.8550	-20.00	PASS
	3040.1000	-42.7518	-20.00	PASS
	3420.1130	-42.8286	-20.00	PASS
	3800.1250	-43.7882	-20.00	PASS

LSM: 406.2 MHz, 12.5 kHz Channel Spacing, High Power
FCC Part 90, RSS 119



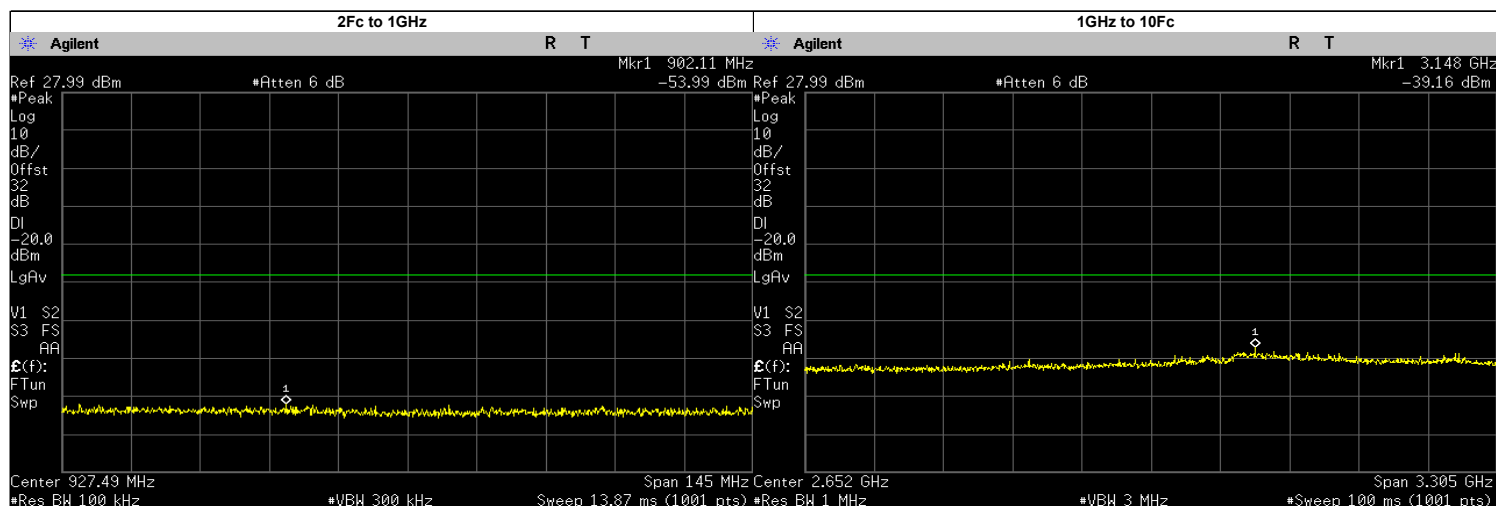
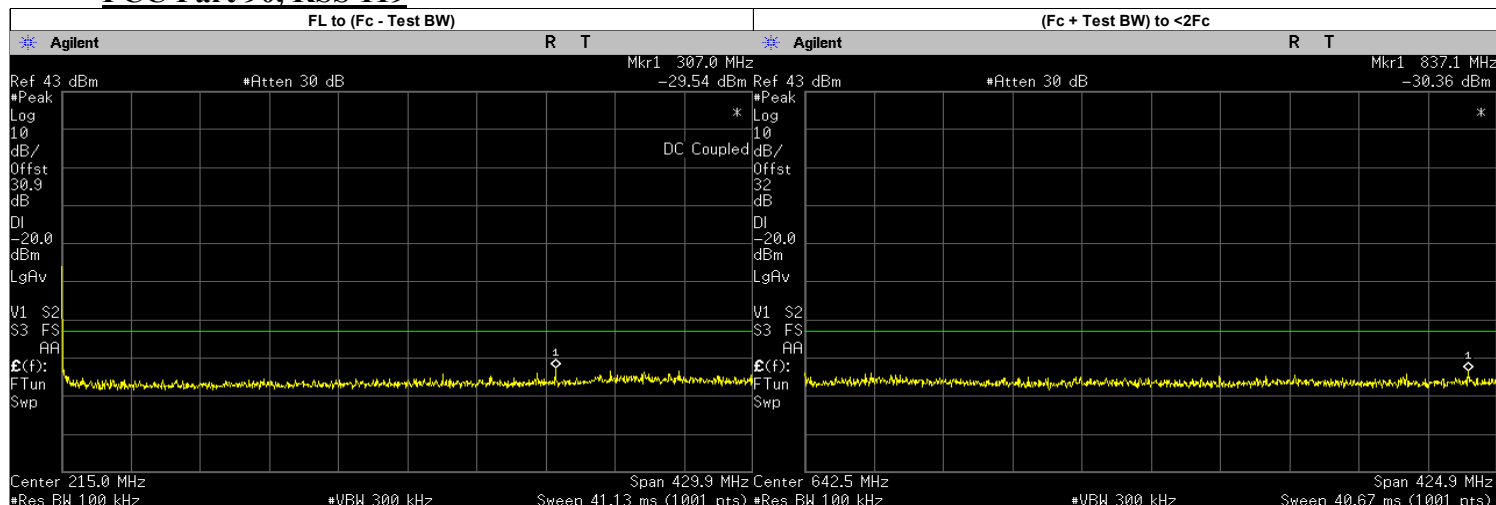
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.8000	-30.7000	-20.00	PASS
(Fc + Test BW) to <2Fc	791.7554	-31.9000	-20.00	PASS
2Fc to 1GHz	994.2220	-53.5800	-20.00	PASS
	812.4000	-55.7930	-20.00	PASS
1GHz to 10Fc	3079.4260	-40.0200	-20.00	PASS
	1218.6000	-45.0189	-20.00	PASS
	1624.8000	-44.7356	-20.00	PASS
	2031.0000	-44.3210	-20.00	PASS
	2437.2000	-43.7370	-20.00	PASS
	2843.4000	-42.4375	-20.00	PASS
	3249.6000	-41.7597	-20.00	PASS
	3655.8000	-43.2590	-20.00	PASS
	4062.0000	-42.6790	-20.00	PASS

**LSM: 418.05 MHz, 12.5 kHz Channel Spacing, High Power
FCC Part 90, RSS 119**



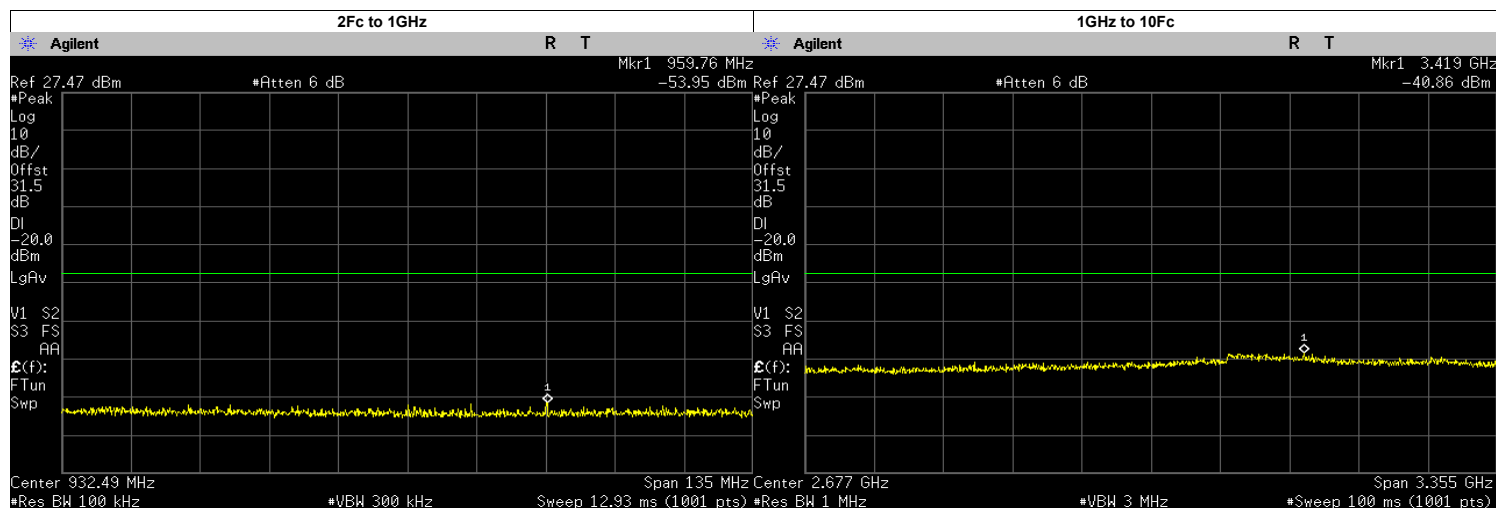
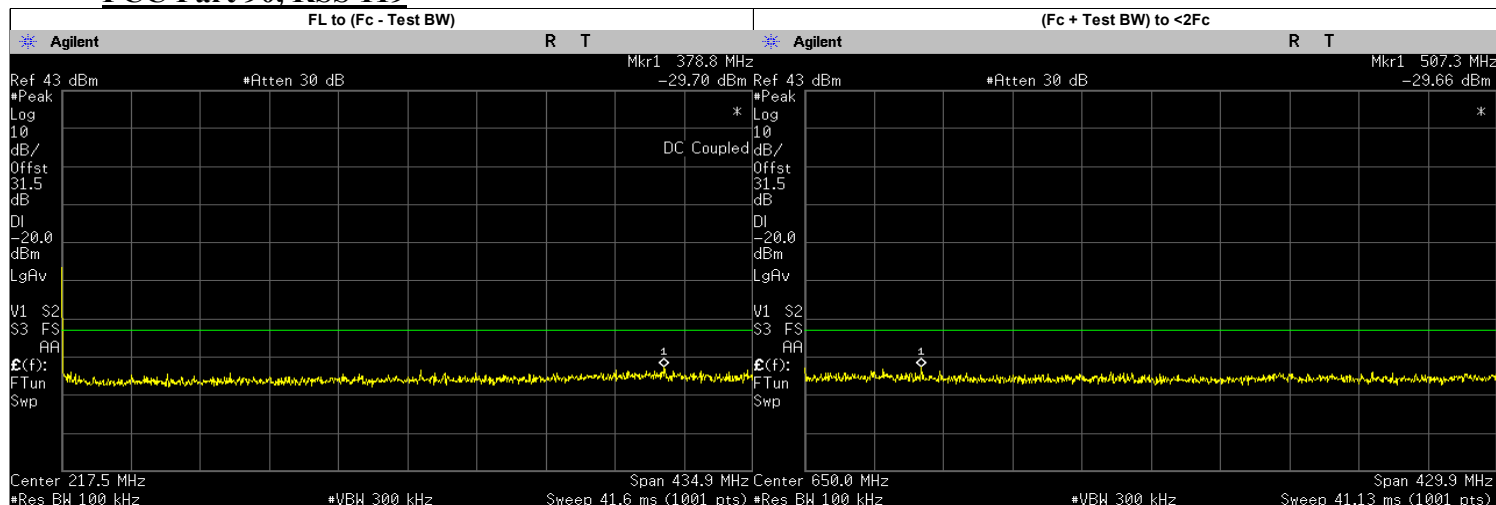
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	374.5239	-30.2000	-20.00	PASS
(Fc + Test BW) to <2Fc	469.3169	-30.6300	-20.00	PASS
2Fc to 1GHz	832.7890	-54.5100	-20.00	PASS
	836.1000	-55.6934	-20.00	PASS
1GHz to 10Fc	3089.6880	-40.7000	-20.00	PASS
	1254.1500	-45.0431	-20.00	PASS
	1672.2000	-45.6487	-20.00	PASS
	2090.2500	-44.2763	-20.00	PASS
	2508.3000	-44.4323	-20.00	PASS
	2926.3500	-43.3046	-20.00	PASS
	3344.4000	-42.2332	-20.00	PASS
	3762.4500	-43.5413	-20.00	PASS
	4180.5000	-43.3400	-20.00	PASS

LSM: 429.9875 MHz, 12.5 kHz Channel Spacing, High Power
FCC Part 90, RSS 119



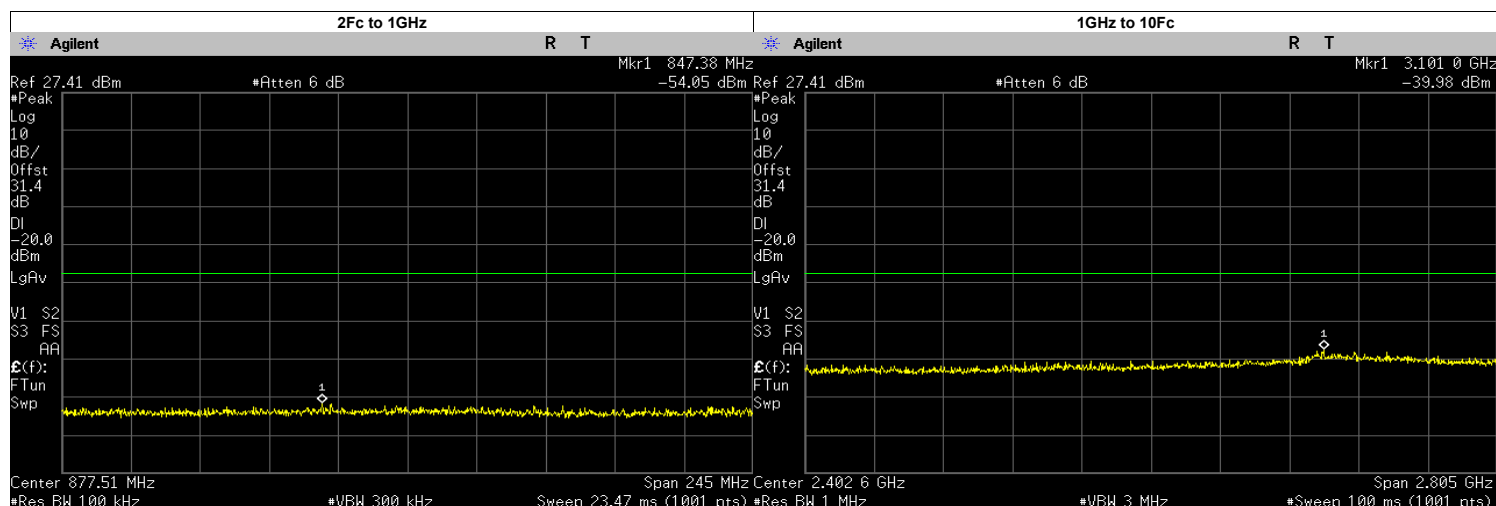
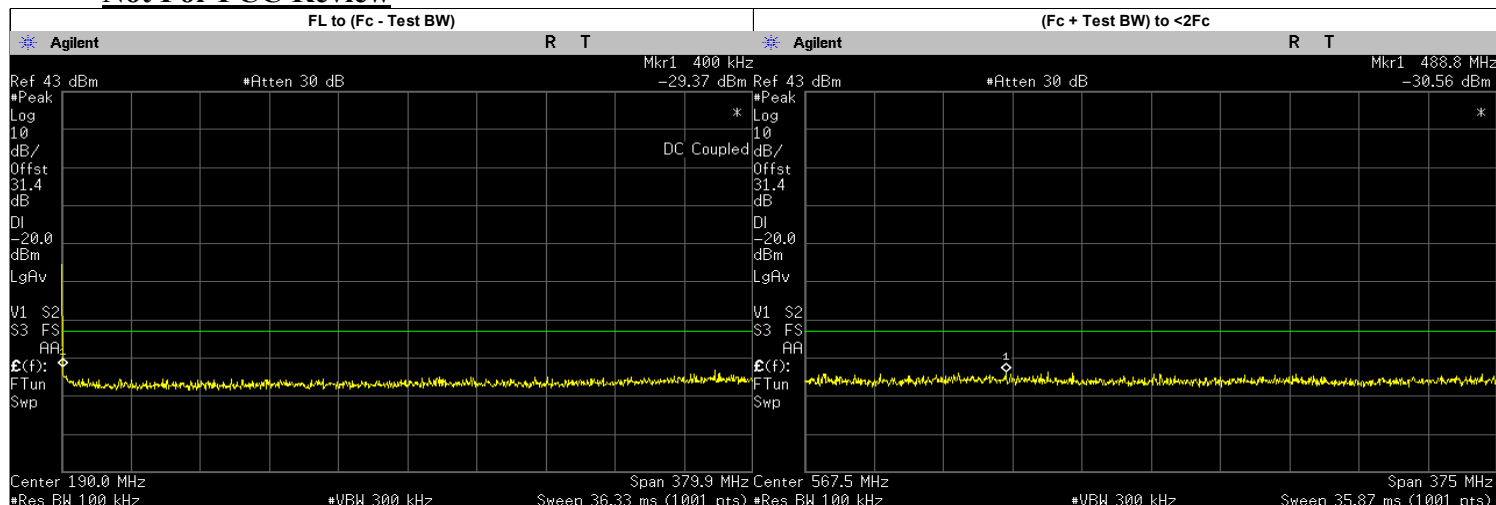
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	307.0000	-29.5400	-20.00	PASS
(Fc + Test BW) to <2Fc	837.1279	-30.3600	-20.00	PASS
2Fc to 1GHz	902.1081	-53.9900	-20.00	PASS
	859.9750	-55.7692	-20.00	PASS
1GHz to 10Fc	3148.1690	-39.1600	-20.00	PASS
	1289.9630	-44.2074	-20.00	PASS
	1719.9500	-44.9255	-20.00	PASS
	2149.9370	-44.3782	-20.00	PASS
	2579.9250	-43.3407	-20.00	PASS
	3009.9120	-42.7660	-20.00	PASS
	3439.9000	-41.7536	-20.00	PASS
	3869.8870	-42.9853	-20.00	PASS
	4299.8750	-43.2042	-20.00	PASS

LSM: 434.9875 MHz, 12.5 kHz Channel Spacing, High Power
FCC Part 90, RSS 119



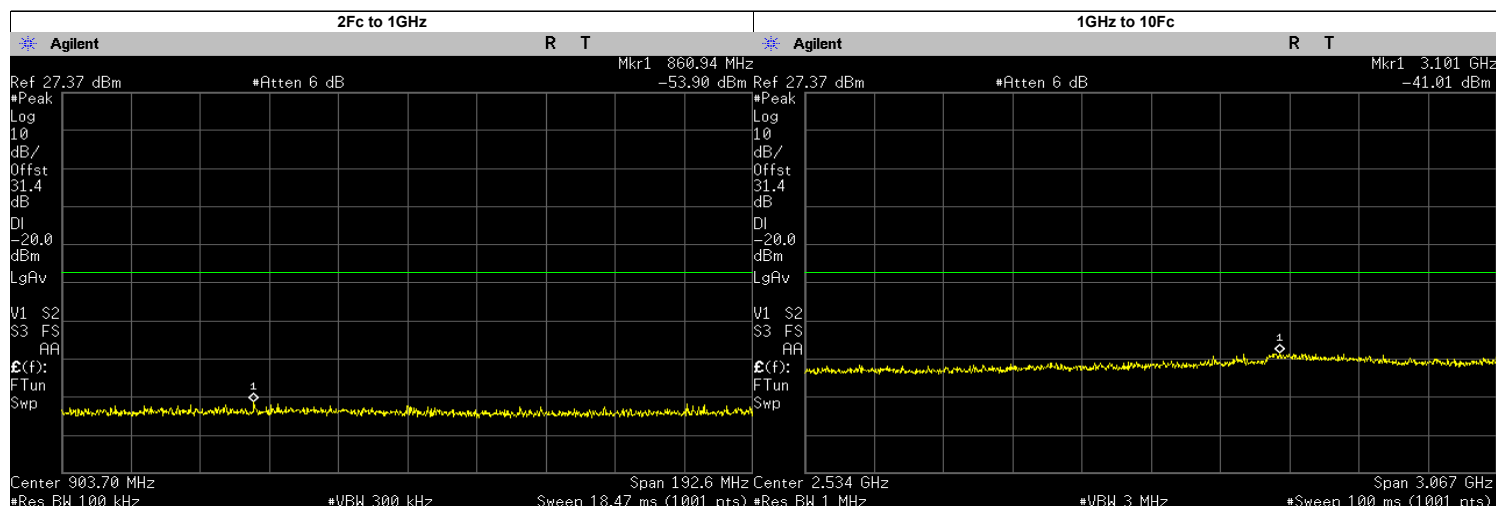
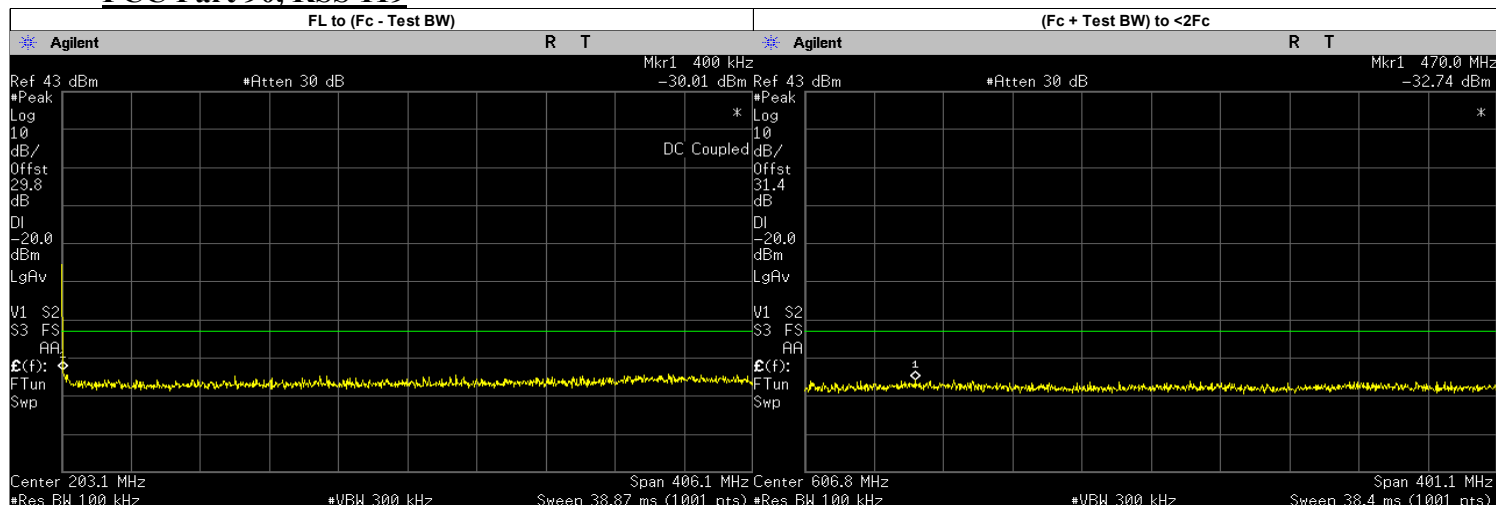
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	378.8268	-29.7000	-20.00	PASS
(Fc + Test BW) to <2Fc	507.2717	-29.6600	-20.00	PASS
2Fc to 1GHz	959.7626	-53.9500	-20.00	PASS
	869.9750	-56.9822	-20.00	PASS
1GHz to 10Fc	3418.8650	-40.8600	-20.00	PASS
	1304.9630	-45.6398	-20.00	PASS
	1739.9500	-45.3793	-20.00	PASS
	2174.9370	-44.8106	-20.00	PASS
	2609.9250	-44.2861	-20.00	PASS
	3044.9120	-42.8976	-20.00	PASS
	3479.9000	-42.9099	-20.00	PASS
	3914.8870	-43.4765	-20.00	PASS
	4349.8750	-43.7039	-20.00	PASS

LSM: 380.0125 MHz, 12.5 kHz Channel Spacing, Low Power
Not For FCC Review



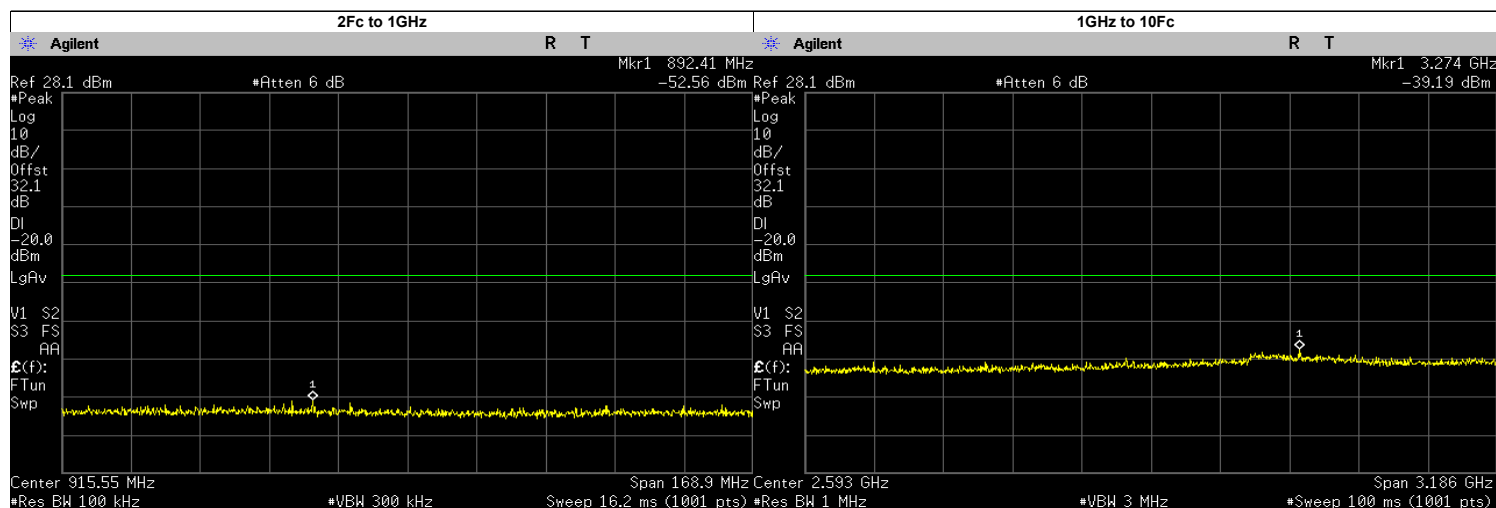
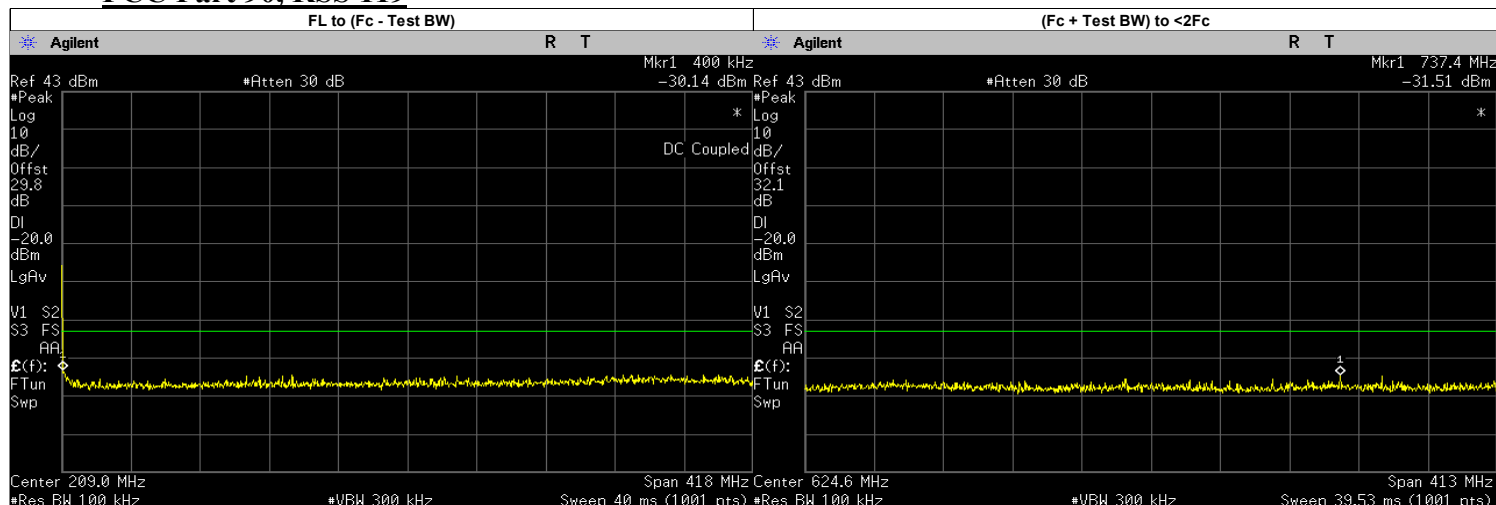
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-29.3700	-20.00	PASS
(Fc + Test BW) to <2Fc	488.8056	-30.5600	-20.00	PASS
2Fc to 1GHz	847.3806	-54.0500	-20.00	PASS
	760.0250	-56.3803	-20.00	PASS
1GHz to 10Fc	3101.0390	-39.9800	-20.00	PASS
	1140.0370	-45.4855	-20.00	PASS
	1520.0500	-45.0243	-20.00	PASS
	1900.0620	-45.6782	-20.00	PASS
	2280.0750	-45.0918	-20.00	PASS
	2660.0880	-44.1042	-20.00	PASS
	3040.1000	-42.8985	-20.00	PASS
	3420.1130	-42.6944	-20.00	PASS
	3800.1250	-43.0800	-20.00	PASS

LSM: 406.2 MHz, 12.5 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



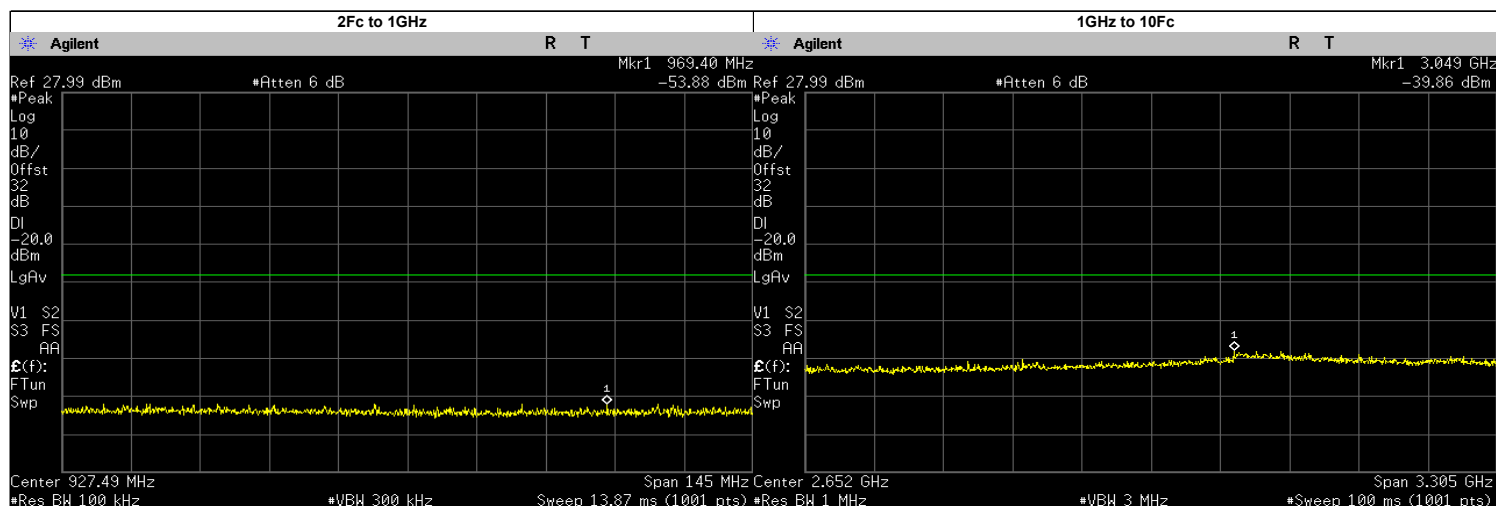
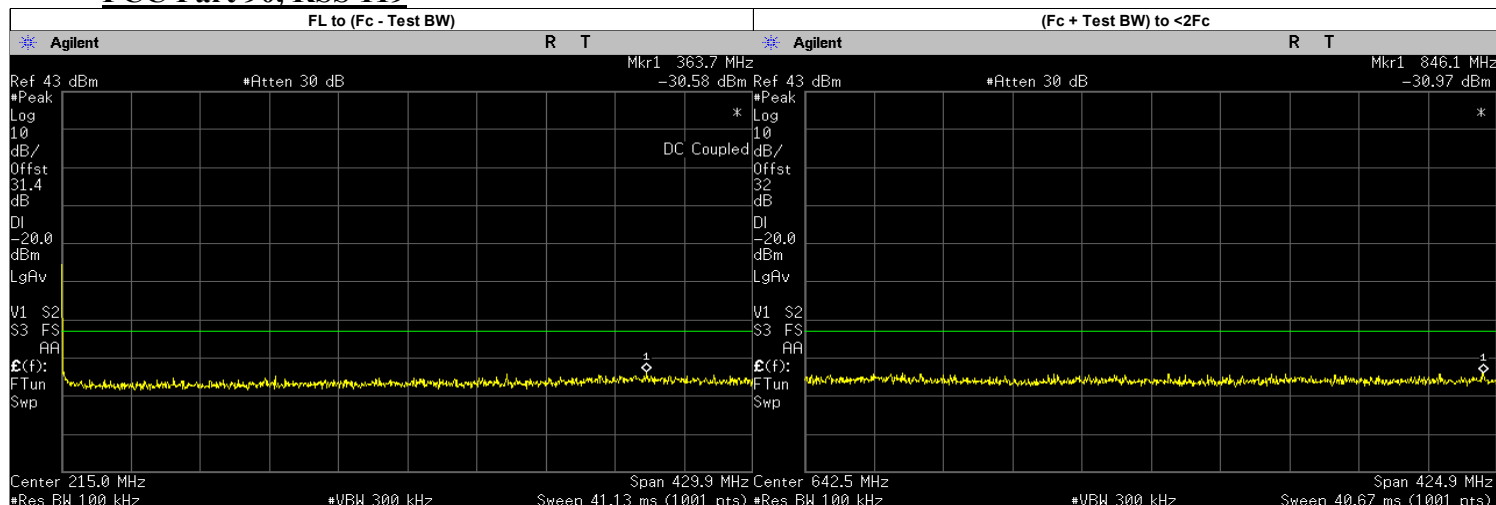
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-30.0100	-20.00	PASS
(Fc + Test BW) to <2Fc	470.0376	-32.7400	-20.00	PASS
2Fc to 1GHz	860.9428	-53.9000	-20.00	PASS
	812.4000	-56.6319	-20.00	PASS
1GHz to 10Fc	3100.8950	-41.0100	-20.00	PASS
	1218.6000	-45.9376	-20.00	PASS
	1624.8000	-44.8831	-20.00	PASS
	2031.0000	-44.5805	-20.00	PASS
	2437.2000	-44.9687	-20.00	PASS
	2843.4000	-44.0330	-20.00	PASS
	3249.6000	-42.8214	-20.00	PASS
	3655.8000	-44.1349	-20.00	PASS
	4062.0000	-43.0780	-20.00	PASS

LSM: 418.05 MHz, 12.5 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



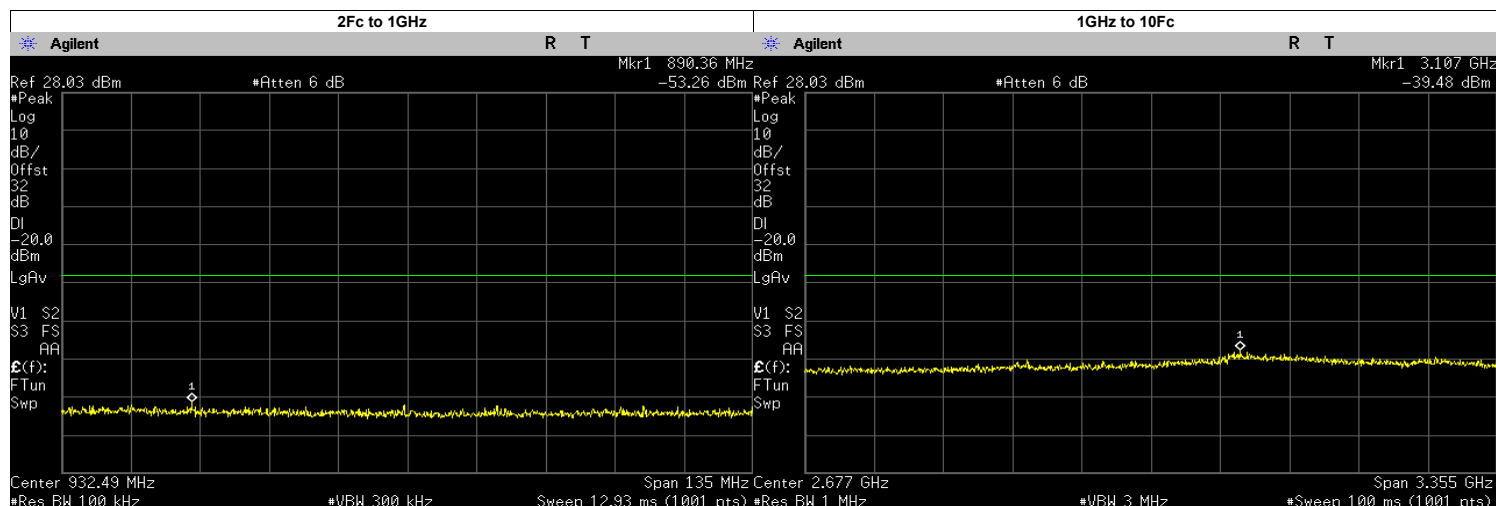
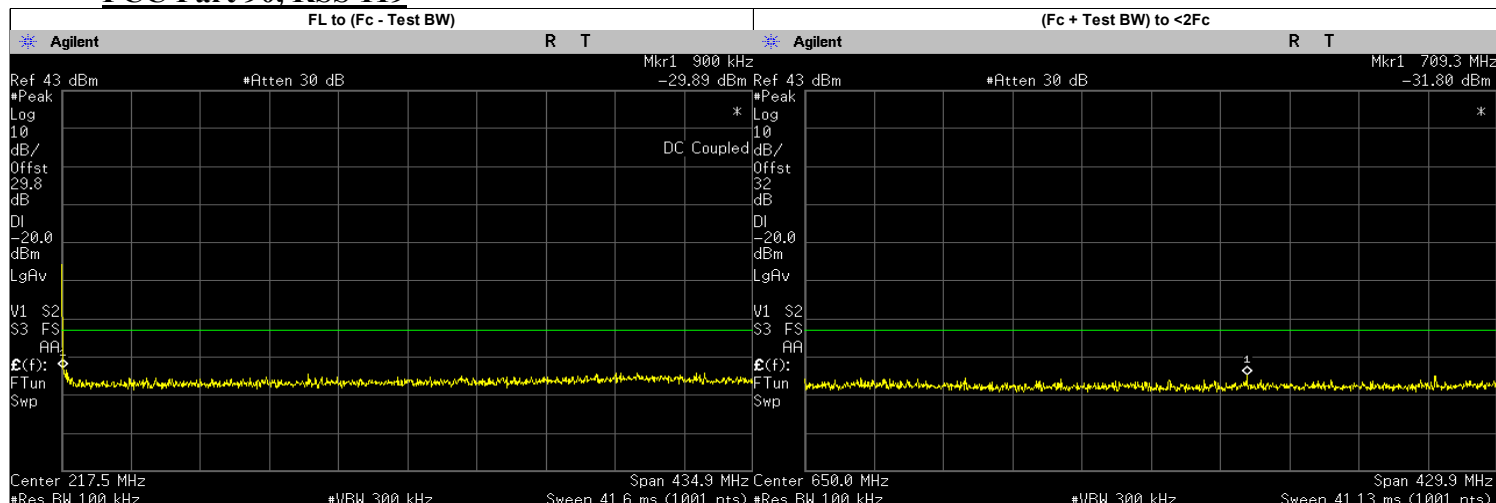
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-30.1400	-20.00	PASS
(Fc + Test BW) to <2Fc	737.3503	-31.5100	-20.00	PASS
2Fc to 1GHz	892.4107	-52.5600	-20.00	PASS
	836.1000	-56.1309	-20.00	PASS
1GHz to 10Fc	3274.4470	-39.1900	-20.00	PASS
	1254.1500	-44.4377	-20.00	PASS
	1672.2000	-45.5320	-20.00	PASS
	2090.2500	-44.1953	-20.00	PASS
	2508.3000	-42.8997	-20.00	PASS
	2926.3500	-42.6311	-20.00	PASS
	3344.4000	-41.7348	-20.00	PASS
	3762.4500	-43.2194	-20.00	PASS
	4180.5000	-43.1381	-20.00	PASS

LSM: 429.9875 MHz, 12.5 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



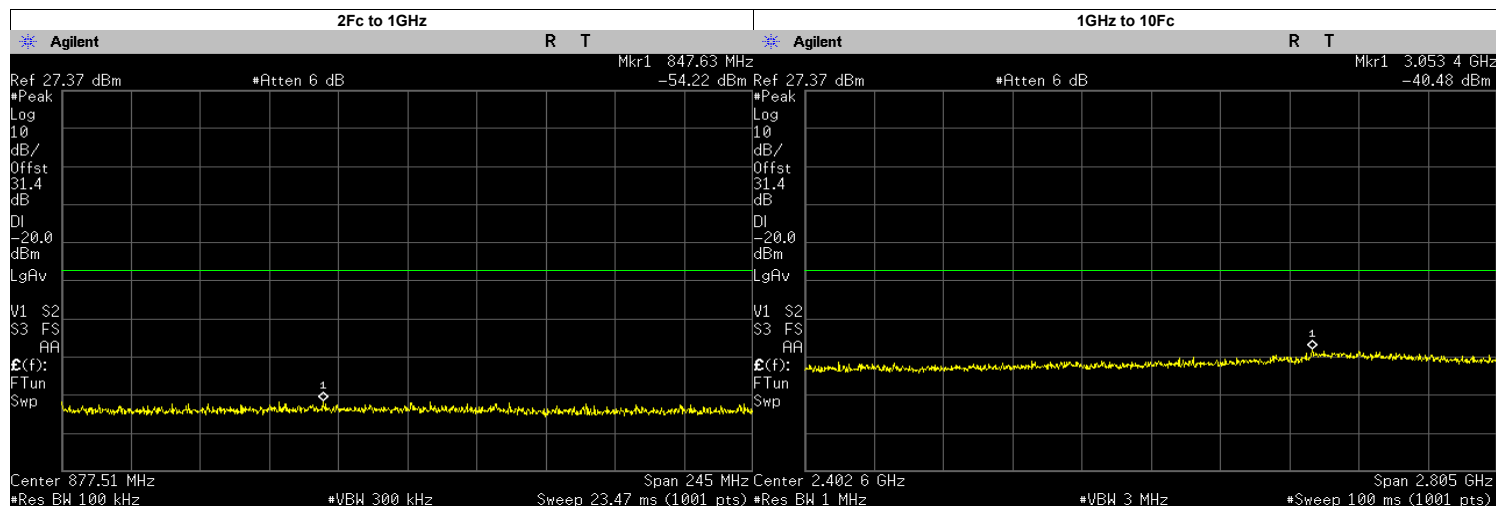
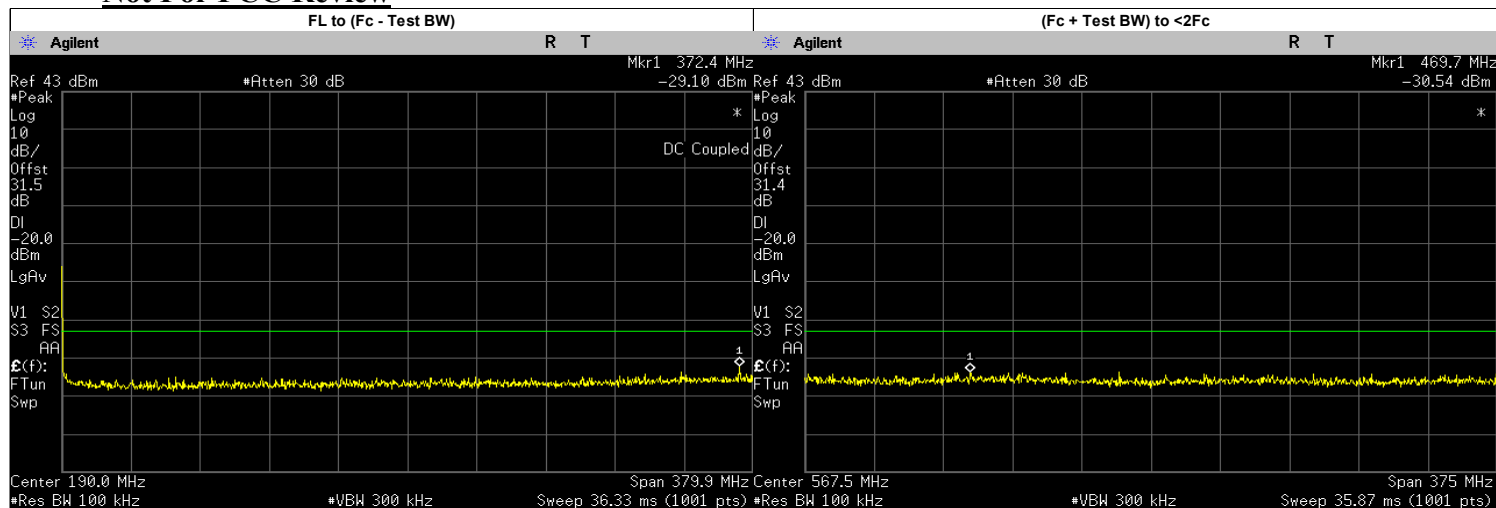
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	363.7238	-30.5800	-20.00	PASS
(Fc + Test BW) to <2Fc	846.0514	-30.9700	-20.00	PASS
2Fc to 1GHz	969.3997	-53.8800	-20.00	PASS
	859.9750	-55.5210	-20.00	PASS
1GHz to 10Fc	3049.0230	-39.8600	-20.00	PASS
	1289.9630	-44.7144	-20.00	PASS
	1719.9500	-44.8335	-20.00	PASS
	2149.9370	-44.7899	-20.00	PASS
	2579.9250	-43.6573	-20.00	PASS
	3009.9120	-42.6729	-20.00	PASS
	3439.9000	-42.5402	-20.00	PASS
	3869.8870	-42.5568	-20.00	PASS
	4299.8750	-43.8630	-20.00	PASS

LSM: 434.9875 MHz, 12.5 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



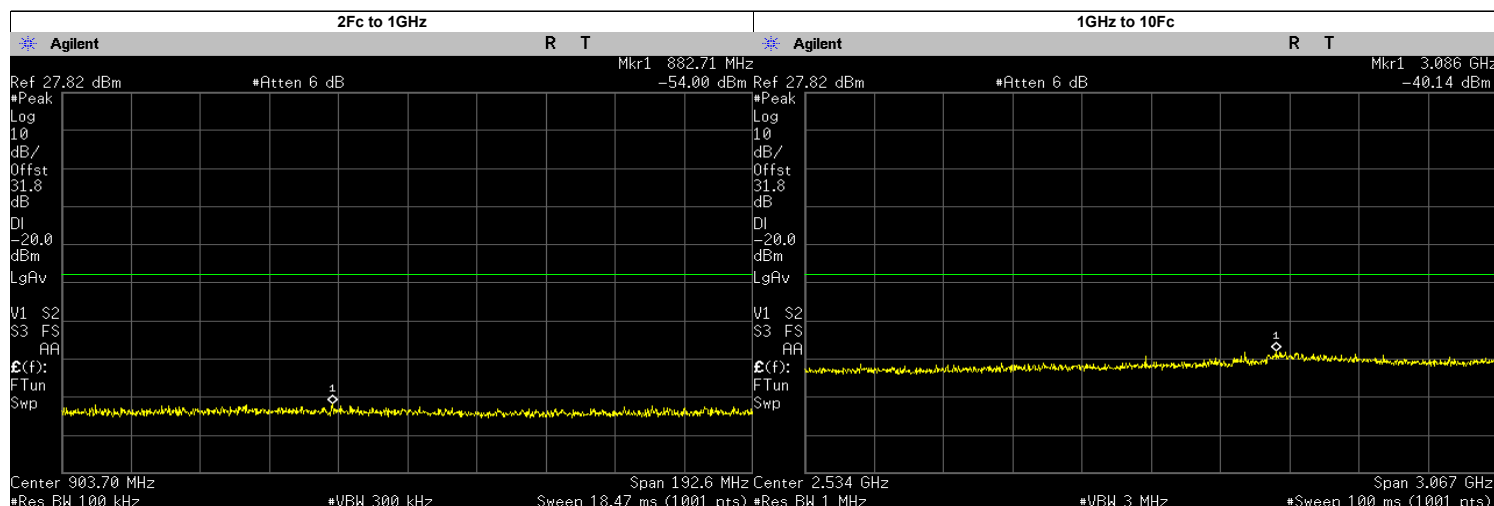
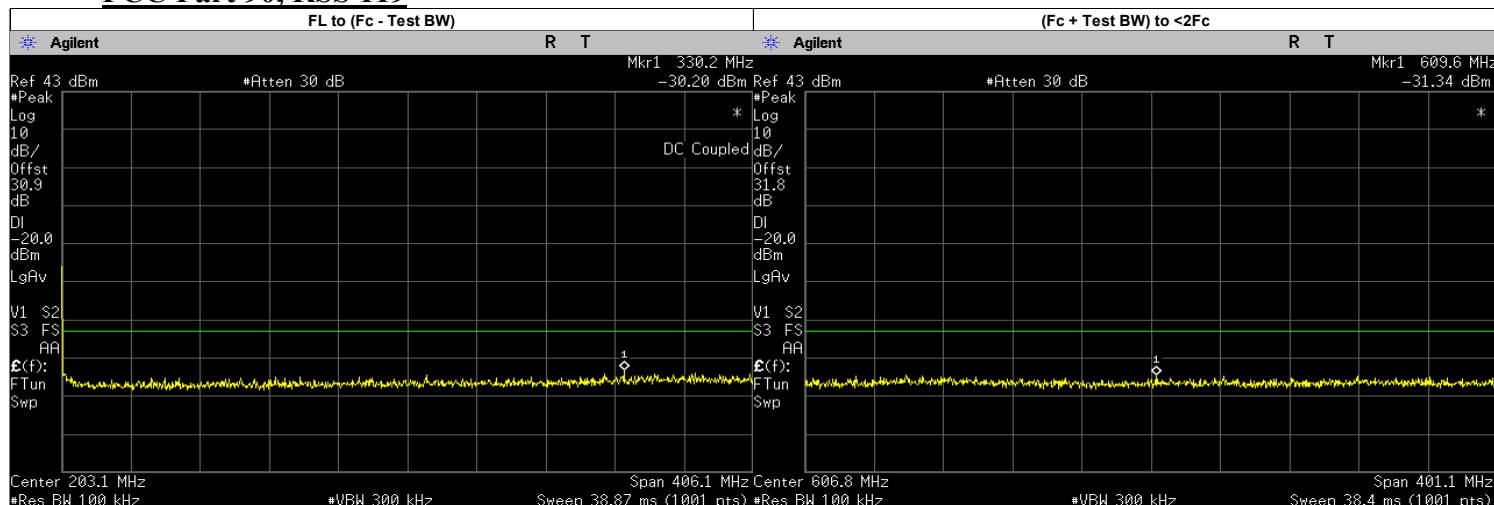
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.9000	-29.8900	-20.00	PASS
(Fc + Test BW) to <2Fc	709.3397	-31.8000	-20.00	PASS
2Fc to 1GHz	890.3597	-53.2600	-20.00	PASS
	869.9750	-56.1079	-20.00	PASS
1GHz to 10Fc	3106.8610	-39.4800	-20.00	PASS
	1304.9630	-44.7252	-20.00	PASS
	1739.9500	-44.7435	-20.00	PASS
	2174.9370	-44.6389	-20.00	PASS
	2609.9250	-43.7718	-20.00	PASS
	3044.9120	-42.8562	-20.00	PASS
	3479.9000	-41.8584	-20.00	PASS
	3914.8870	-43.5915	-20.00	PASS
	4349.8750	-43.6232	-20.00	PASS

FSK: 380.0125 MHz, 12.5 kHz Channel Spacing, High Power
Not For FCC Review



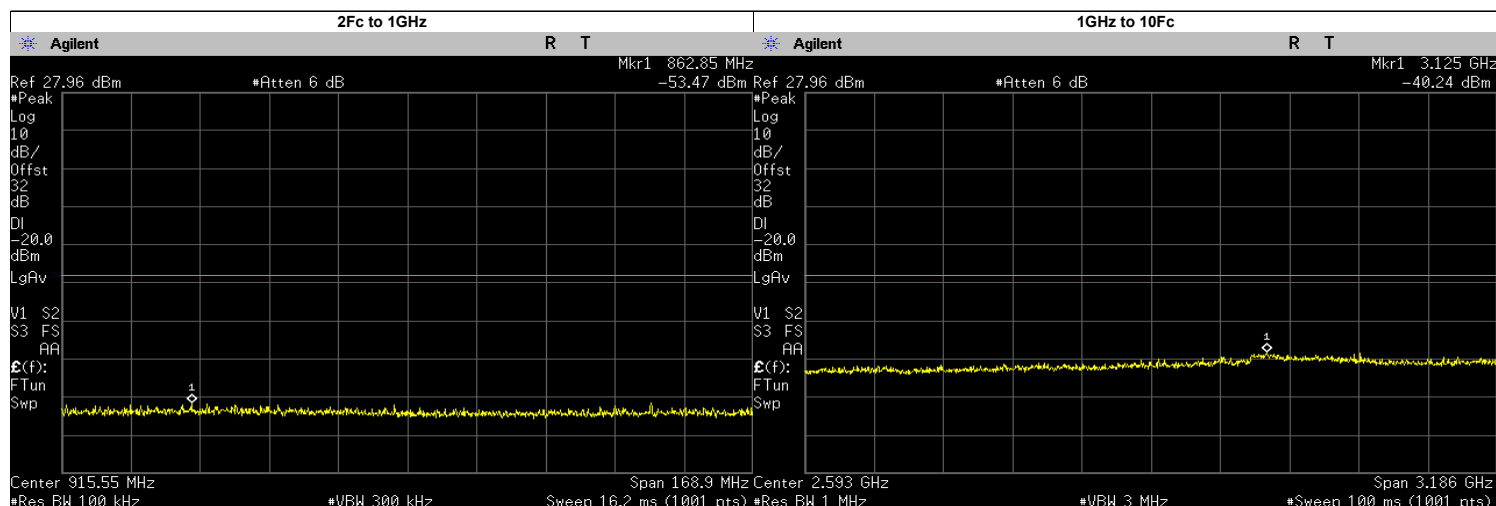
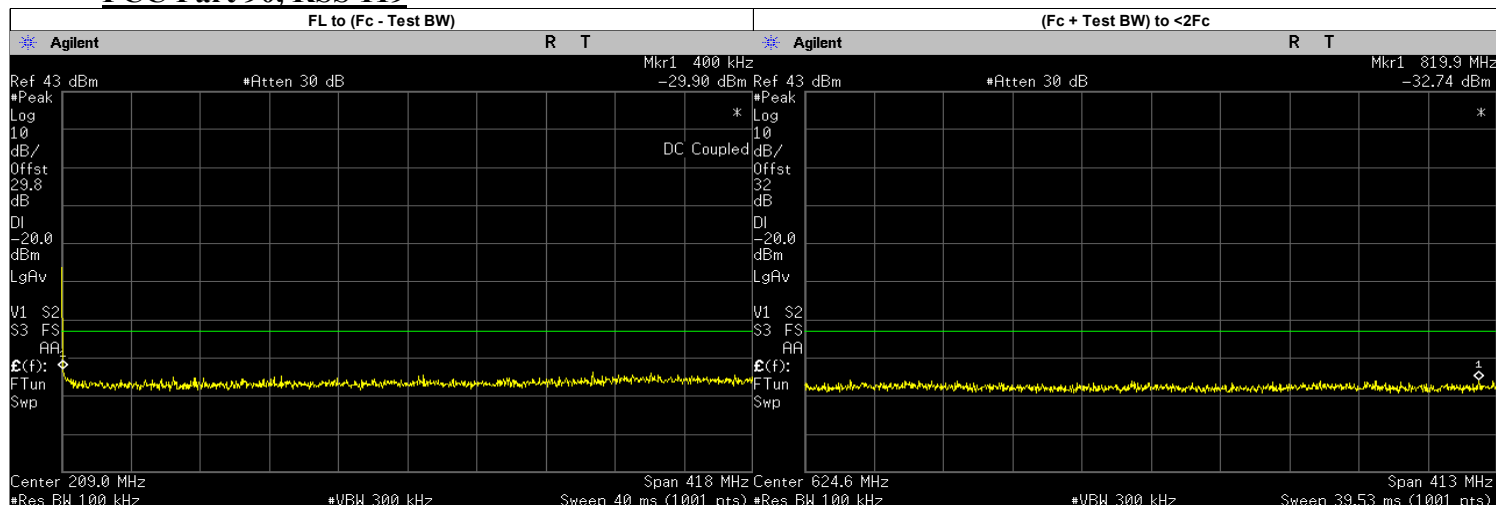
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	372.4000	-29.1000	-20.00	PASS
(Fc + Test BW) to <2Fc	469.6828	-30.5400	-20.00	PASS
2Fc to 1GHz	847.6255	-54.2200	-20.00	PASS
	760.0250	-56.6626	-20.00	PASS
1GHz to 10Fc	3053.3520	-40.4800	-20.00	PASS
	1140.0370	-45.3708	-20.00	PASS
	1520.0500	-45.1406	-20.00	PASS
	1900.0620	-44.9777	-20.00	PASS
	2280.0750	-44.9444	-20.00	PASS
	2660.0880	-44.3306	-20.00	PASS
	3040.1000	-43.2777	-20.00	PASS
	3420.1130	-42.7912	-20.00	PASS
	3800.1250	-42.9769	-20.00	PASS

FSK: 406.2 MHz, 12.5 kHz Channel Spacing, High Power
FCC Part 90, RSS 119



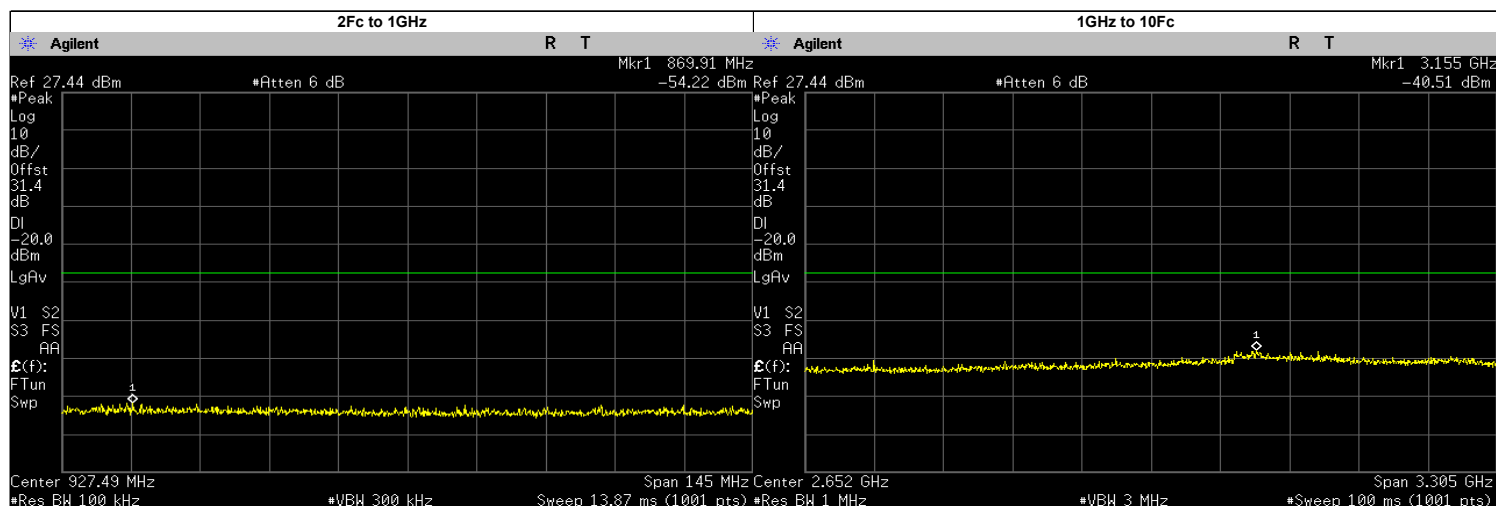
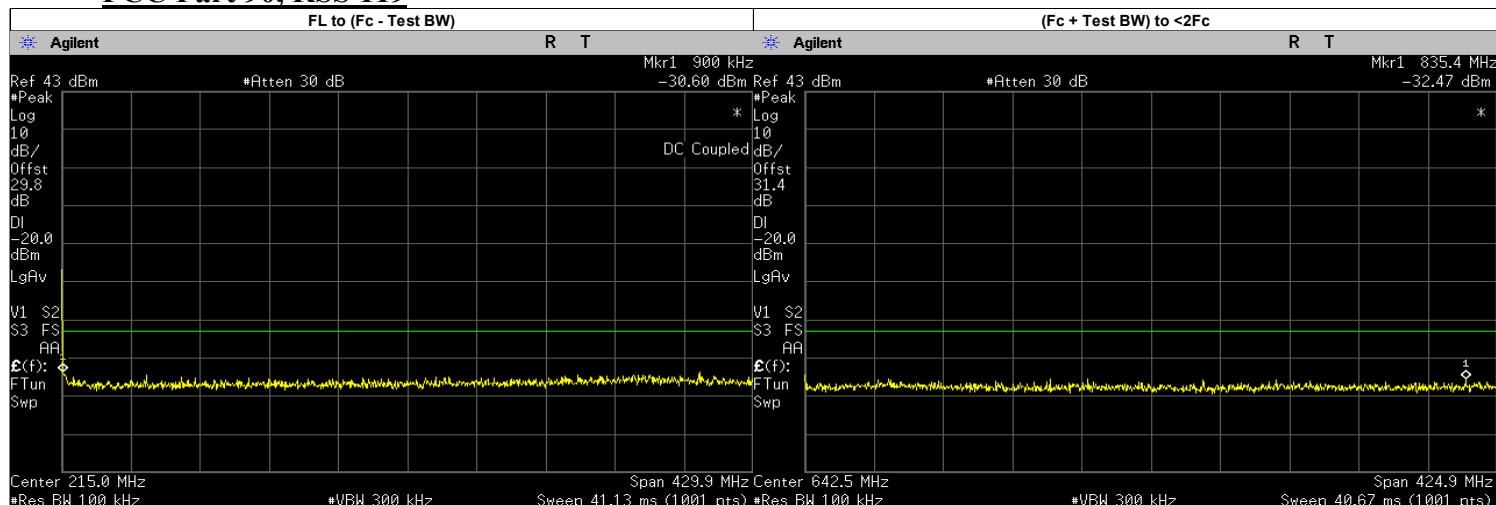
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	330.1971	-30.2000	-20.00	PASS
(Fc + Test BW) to <2Fc	609.6358	-31.3400	-20.00	PASS
2Fc to 1GHz	882.7066	-54.0000	-20.00	PASS
	812.4000	-56.3712	-20.00	PASS
1GHz to 10Fc	3085.5600	-40.1400	-20.00	PASS
	1218.6000	-45.2817	-20.00	PASS
	1624.8000	-44.6600	-20.00	PASS
	2031.0000	-44.8636	-20.00	PASS
	2437.2000	-43.6587	-20.00	PASS
	2843.4000	-43.2105	-20.00	PASS
	3249.6000	-41.8022	-20.00	PASS
	3655.8000	-42.5815	-20.00	PASS
	4062.0000	-42.5087	-20.00	PASS

FSK: 418.05 MHz, 12.5 kHz Channel Spacing, High Power
FCC Part 90, RSS 119



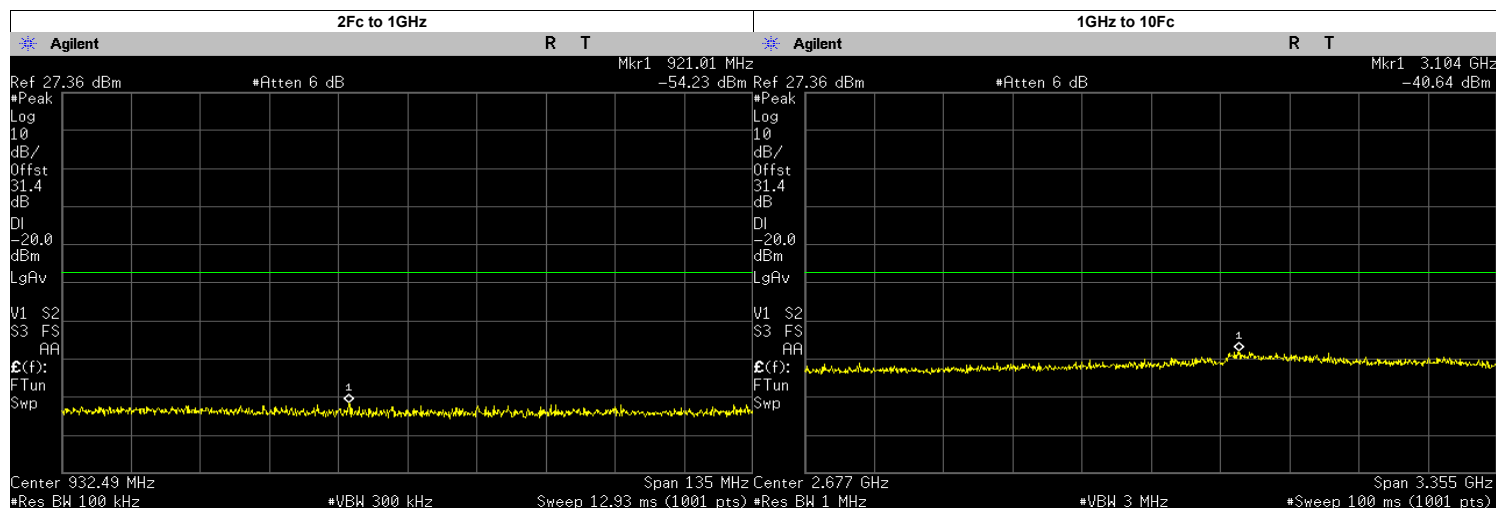
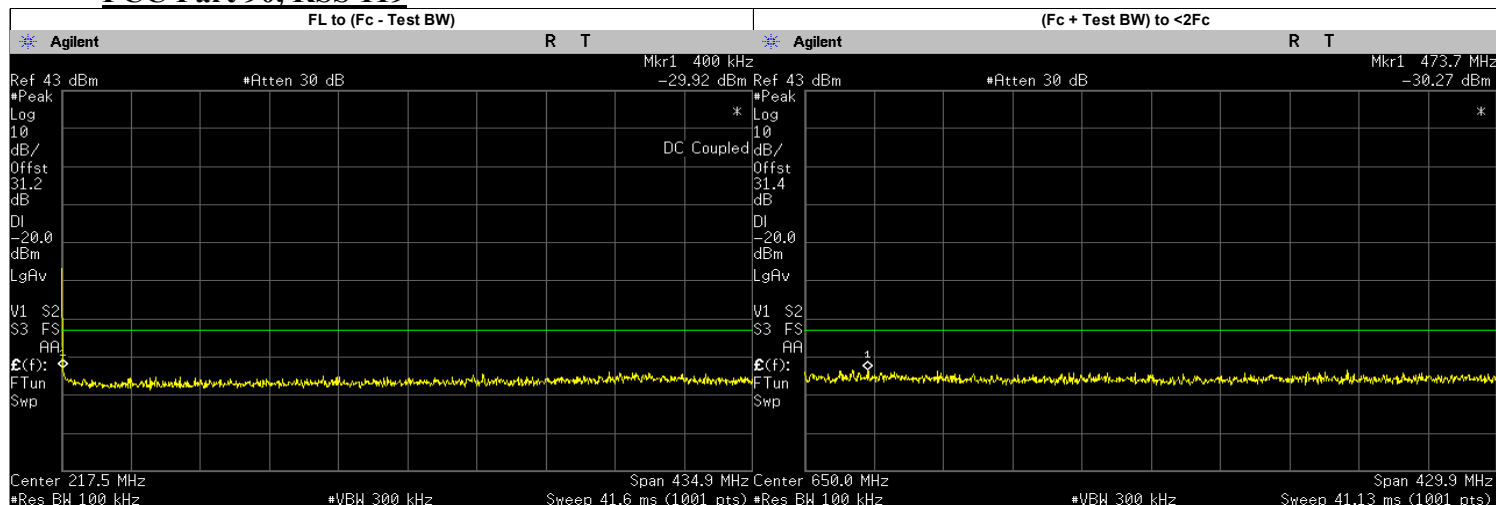
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-29.9000	-20.00	PASS
(Fc + Test BW) to <2Fc	819.9492	-32.7400	-20.00	PASS
2Fc to 1GHz	862.8532	-53.4700	-20.00	PASS
	836.1000	-56.1605	-20.00	PASS
1GHz to 10Fc	3124.7290	-40.2400	-20.00	PASS
	1254.1500	-45.1763	-20.00	PASS
	1672.2000	-45.4378	-20.00	PASS
	2090.2500	-44.4109	-20.00	PASS
	2508.3000	-43.9518	-20.00	PASS
	2926.3500	-41.8864	-20.00	PASS
	3344.4000	-42.0242	-20.00	PASS
	3762.4500	-42.8091	-20.00	PASS
	4180.5000	-43.5288	-20.00	PASS

FSK: 429.9875 MHz, 12.5 kHz Channel Spacing, High Power
FCC Part 90, RSS 119



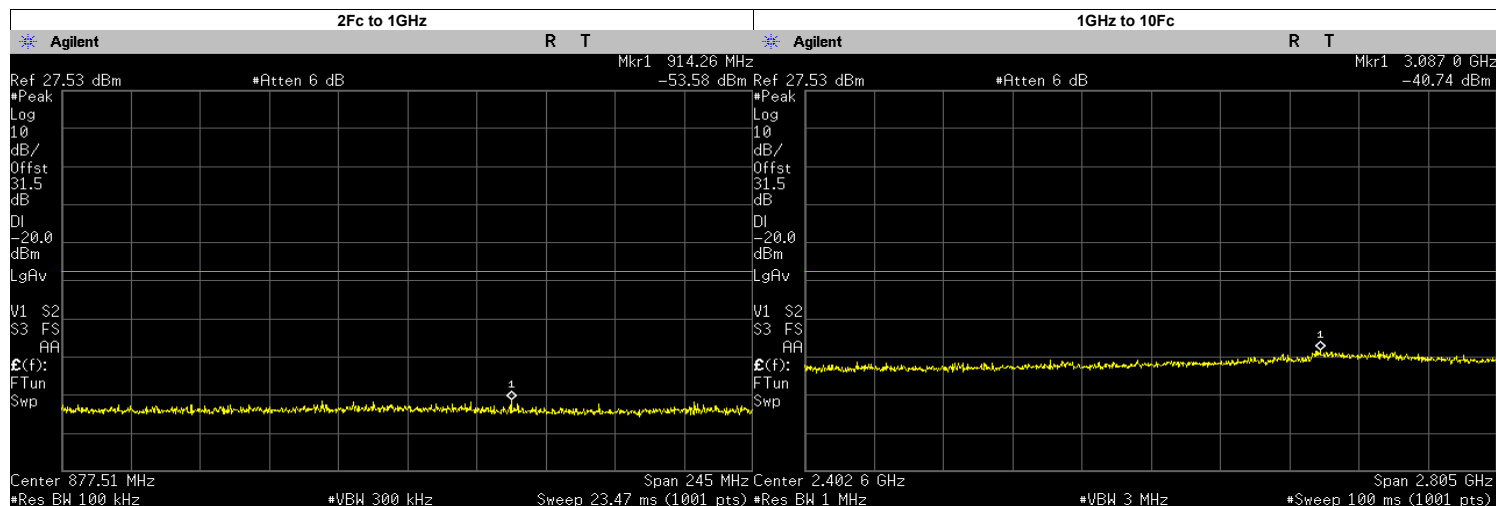
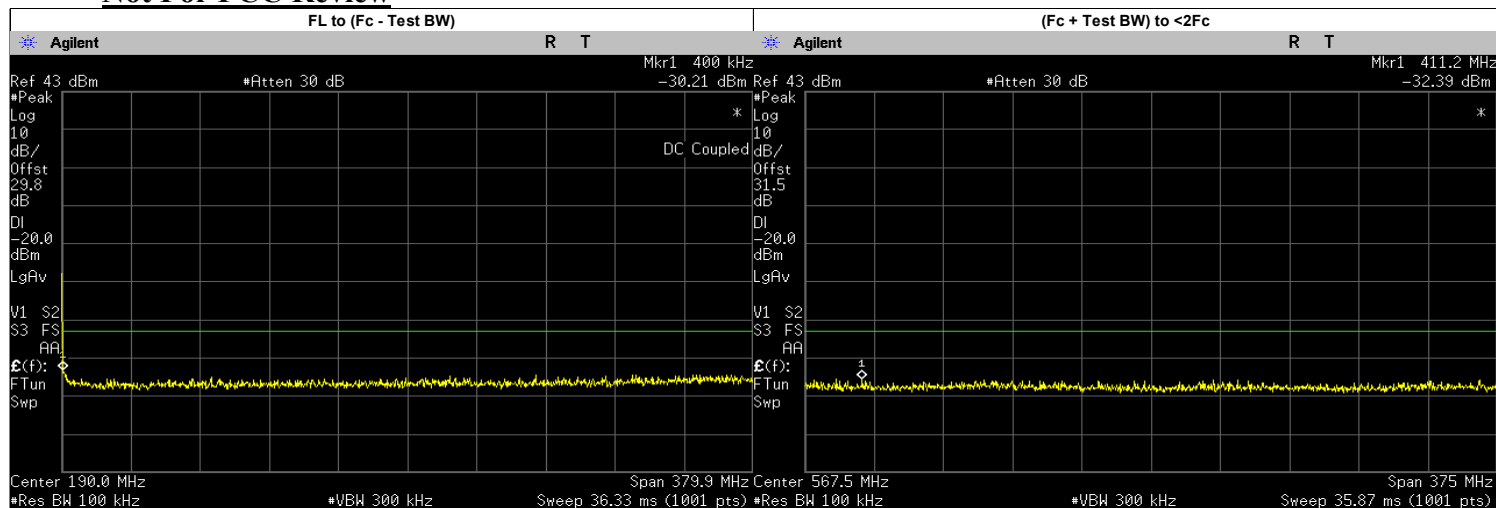
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.9000	-30.6000	-20.00	PASS
(Fc + Test BW) to <2Fc	835.4281	-32.4700	-20.00	PASS
2Fc to 1GHz	869.9126	-54.2200	-20.00	PASS
	859.9750	-56.4665	-20.00	PASS
1GHz to 10Fc	3154.7780	-40.5100	-20.00	PASS
	1289.9630	-45.5137	-20.00	PASS
	1719.9500	-45.7623	-20.00	PASS
	2149.9370	-44.9696	-20.00	PASS
	2579.9250	-44.2114	-20.00	PASS
	3009.9120	-43.3811	-20.00	PASS
	3439.9000	-42.4113	-20.00	PASS
	3869.8870	-43.6828	-20.00	PASS
	4299.8750	-44.4233	-20.00	PASS

FSK: 434.9875 MHz, 12.5 kHz Channel Spacing, High Power
FCC Part 90, RSS 119



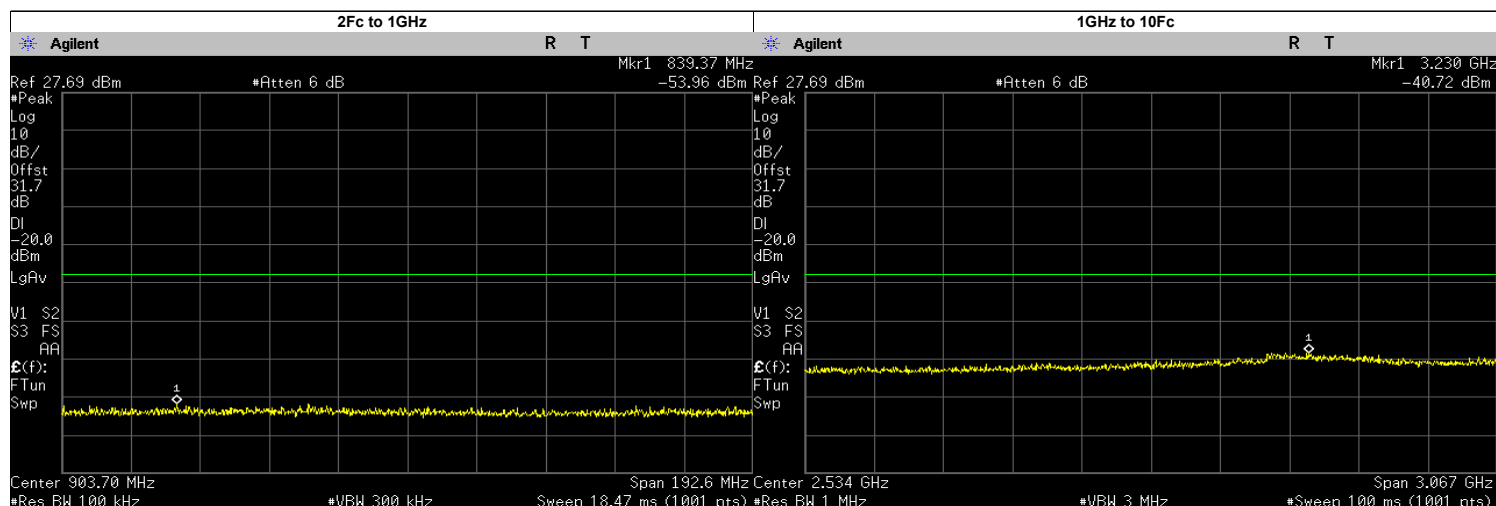
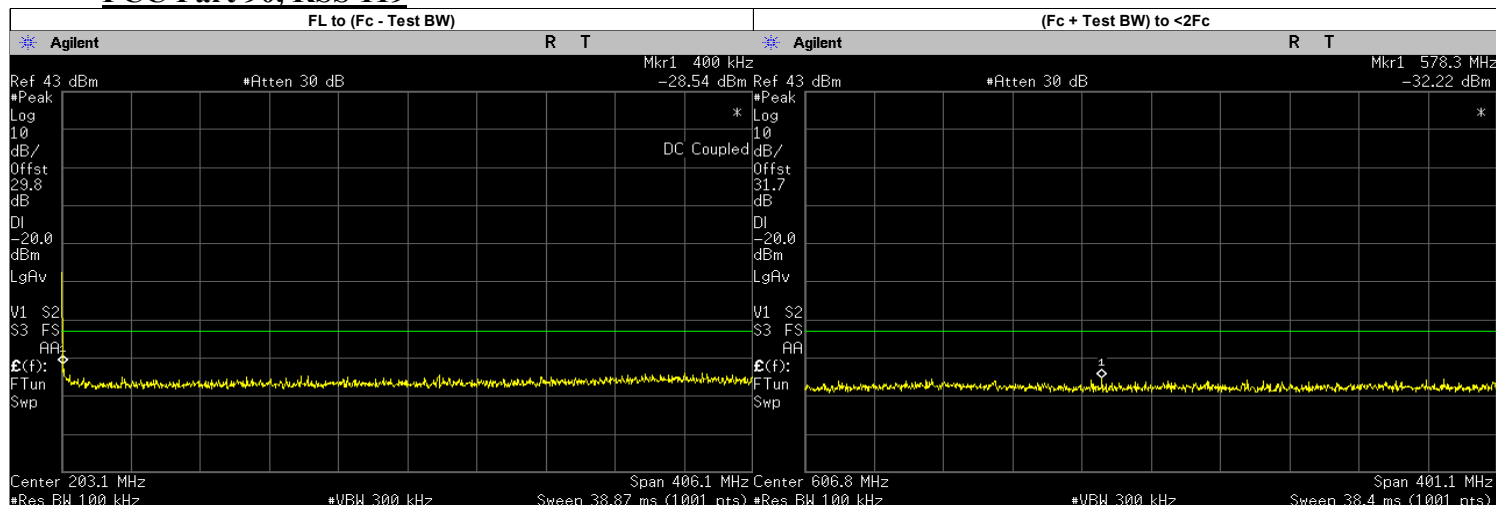
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-29.9200	-20.00	PASS
(Fc + Test BW) to <2Fc	473.7370	-30.2700	-20.00	PASS
2Fc to 1GHz	921.0104	-54.2300	-20.00	PASS
	869.9750	-56.8298	-20.00	PASS
1GHz to 10Fc	3103.5070	-40.6400	-20.00	PASS
	1304.9630	-45.7875	-20.00	PASS
	1739.9500	-45.5119	-20.00	PASS
	2174.9370	-45.1135	-20.00	PASS
	2609.9250	-44.8276	-20.00	PASS
	3044.9120	-42.8303	-20.00	PASS
	3479.9000	-41.5779	-20.00	PASS
	3914.8870	-43.5206	-20.00	PASS
	4349.8750	-43.9065	-20.00	PASS

FSK: 380.0125 MHz, 12.5 kHz Channel Spacing, Low Power
Not For FCC Review



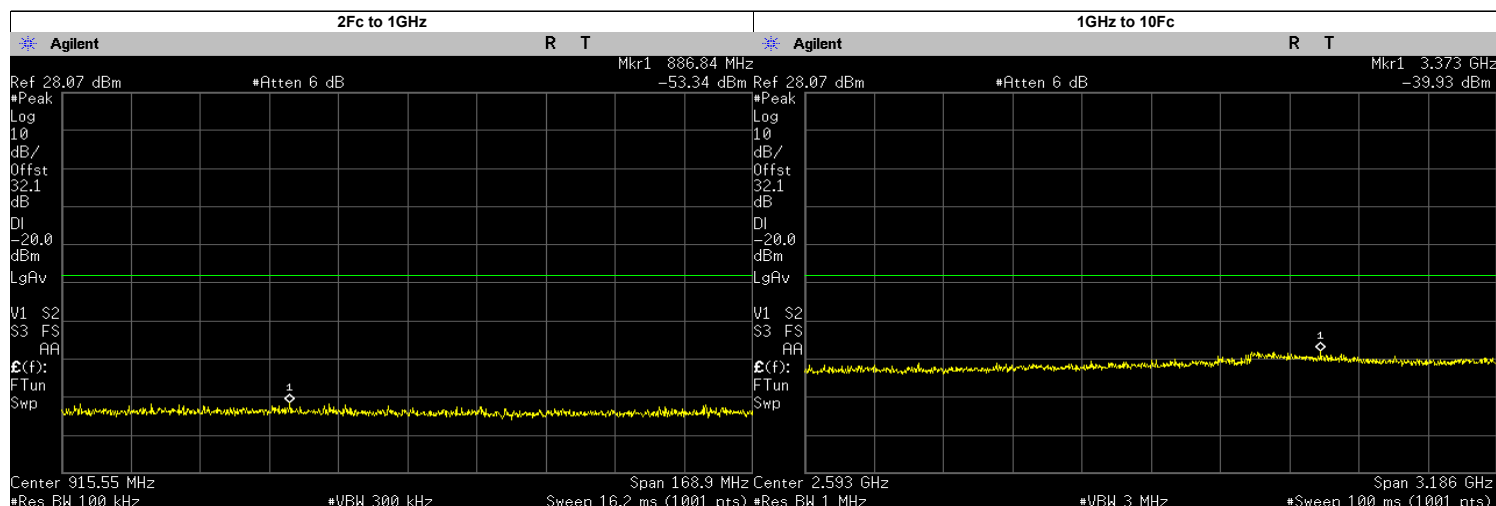
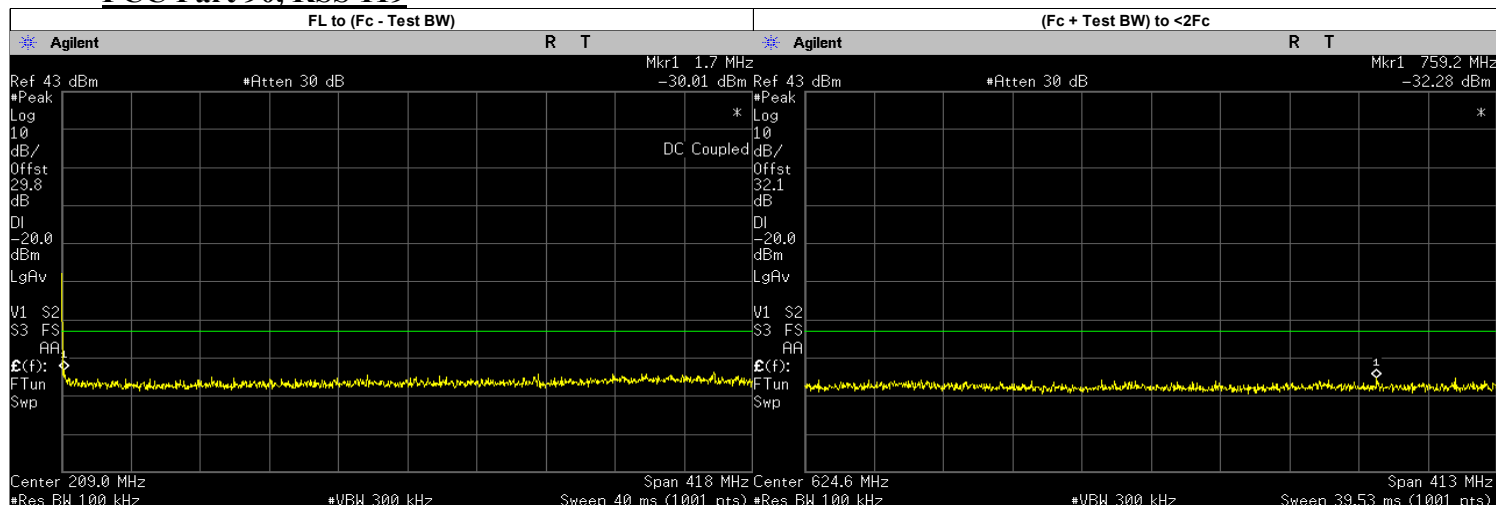
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-30.2100	-20.00	PASS
(Fc + Test BW) to <2Fc	411.1895	-32.3900	-20.00	PASS
2Fc to 1GHz	914.2587	-53.5800	-20.00	PASS
	760.0250	-56.4745	-20.00	PASS
1GHz to 10Fc	3087.0130	-40.7400	-20.00	PASS
	1140.0370	-45.5938	-20.00	PASS
	1520.0500	-45.0997	-20.00	PASS
	1900.0620	-45.4983	-20.00	PASS
	2280.0750	-44.7626	-20.00	PASS
	2660.0880	-43.8875	-20.00	PASS
	3040.1000	-42.8306	-20.00	PASS
	3420.1130	-43.1754	-20.00	PASS
	3800.1250	-42.9879	-20.00	PASS

FSK: 406.2 MHz, 12.5 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



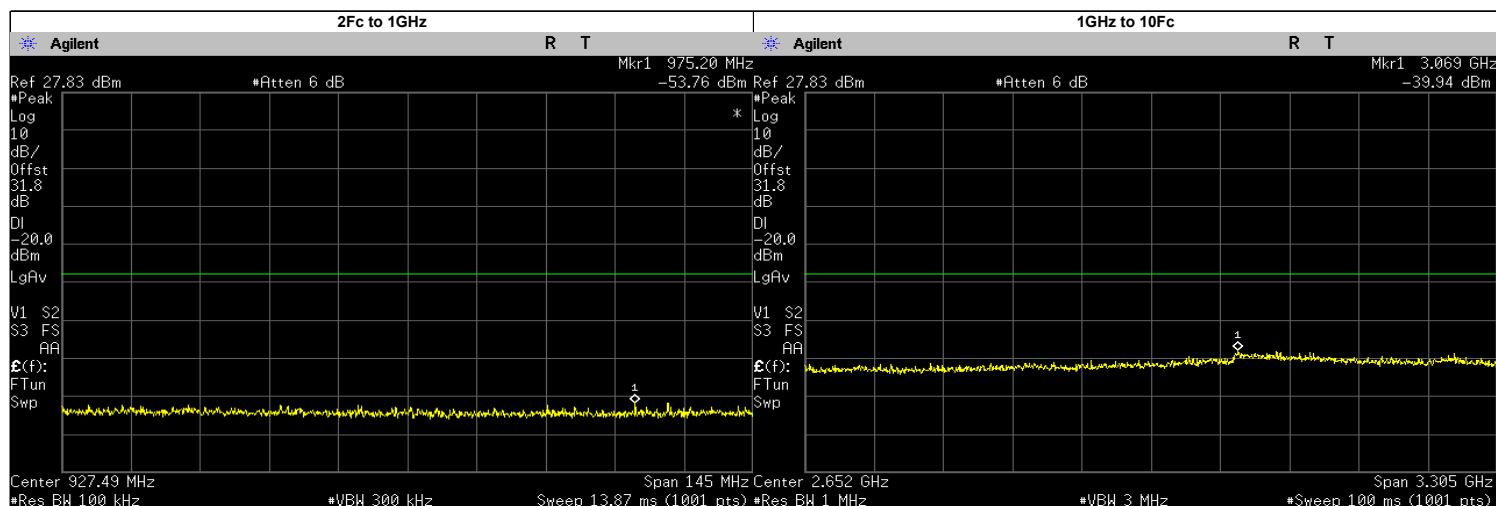
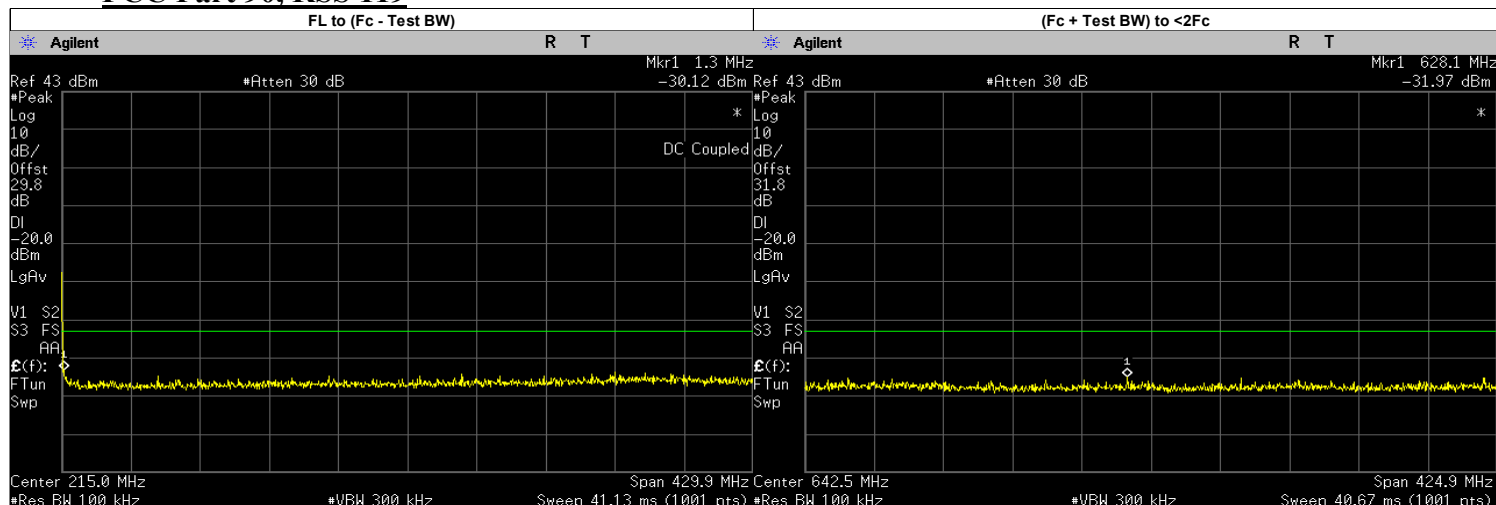
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-28.5400	-20.00	PASS
(Fc + Test BW) to <2Fc	578.3466	-32.2200	-20.00	PASS
2Fc to 1GHz	839.3716	-53.9600	-20.00	PASS
	812.4000	-55.8232	-20.00	PASS
1GHz to 10Fc	3229.7090	-40.7200	-20.00	PASS
	1218.6000	-44.9070	-20.00	PASS
	1624.8000	-45.2215	-20.00	PASS
	2031.0000	-44.2013	-20.00	PASS
	2437.2000	-44.1799	-20.00	PASS
	2843.4000	-43.9280	-20.00	PASS
	3249.6000	-41.9477	-20.00	PASS
	3655.8000	-42.5013	-20.00	PASS
	4062.0000	-42.8705	-20.00	PASS

FSK: 418.05 MHz, 12.5 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



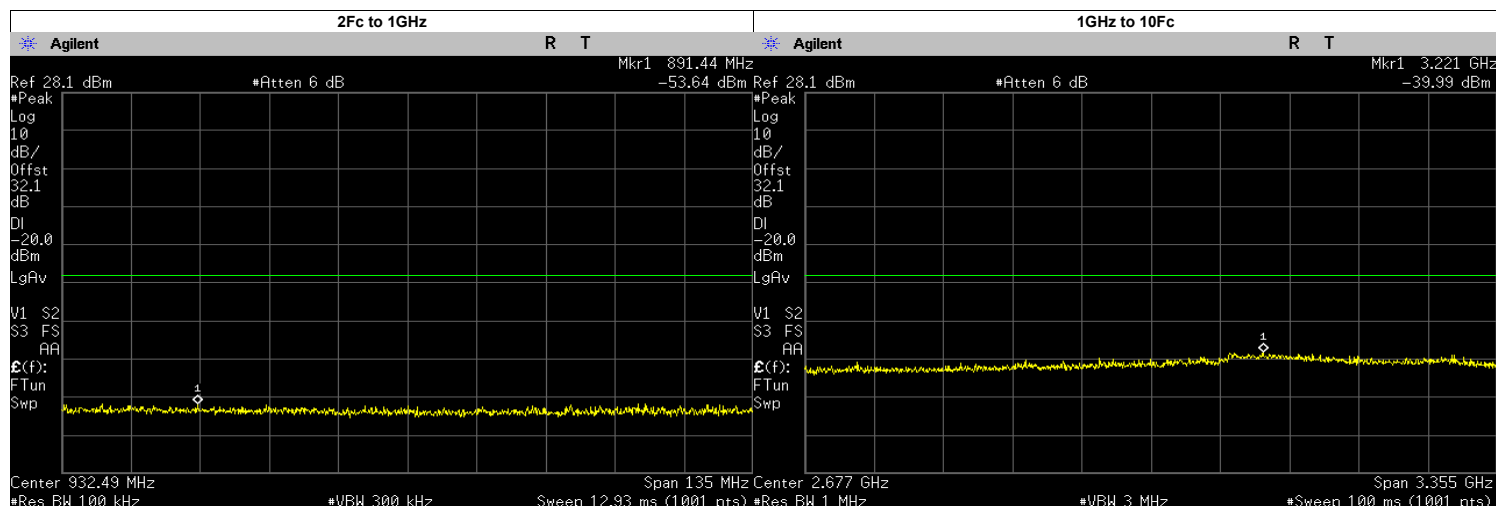
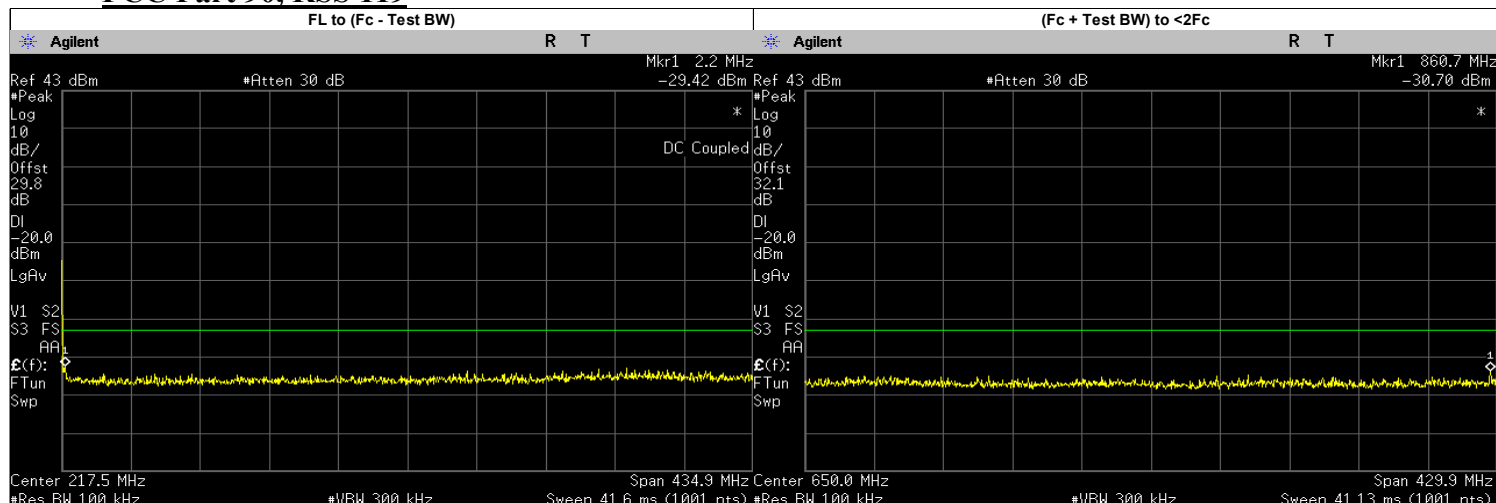
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	1.7000	-30.0100	-20.00	PASS
(Fc + Test BW) to <2Fc	759.2390	-32.2800	-20.00	PASS
2Fc to 1GHz	886.8370	-53.3400	-20.00	PASS
	836.1000	-56.0040	-20.00	PASS
1GHz to 10Fc	3373.1980	-39.9300	-20.00	PASS
	1254.1500	-44.8716	-20.00	PASS
	1672.2000	-44.1194	-20.00	PASS
	2090.2500	-44.0835	-20.00	PASS
	2508.3000	-43.3322	-20.00	PASS
	2926.3500	-42.4288	-20.00	PASS
	3344.4000	-41.6776	-20.00	PASS
	3762.4500	-42.9774	-20.00	PASS
	4180.5000	-43.1952	-20.00	PASS

FSK: 429.9875 MHz, 12.5 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



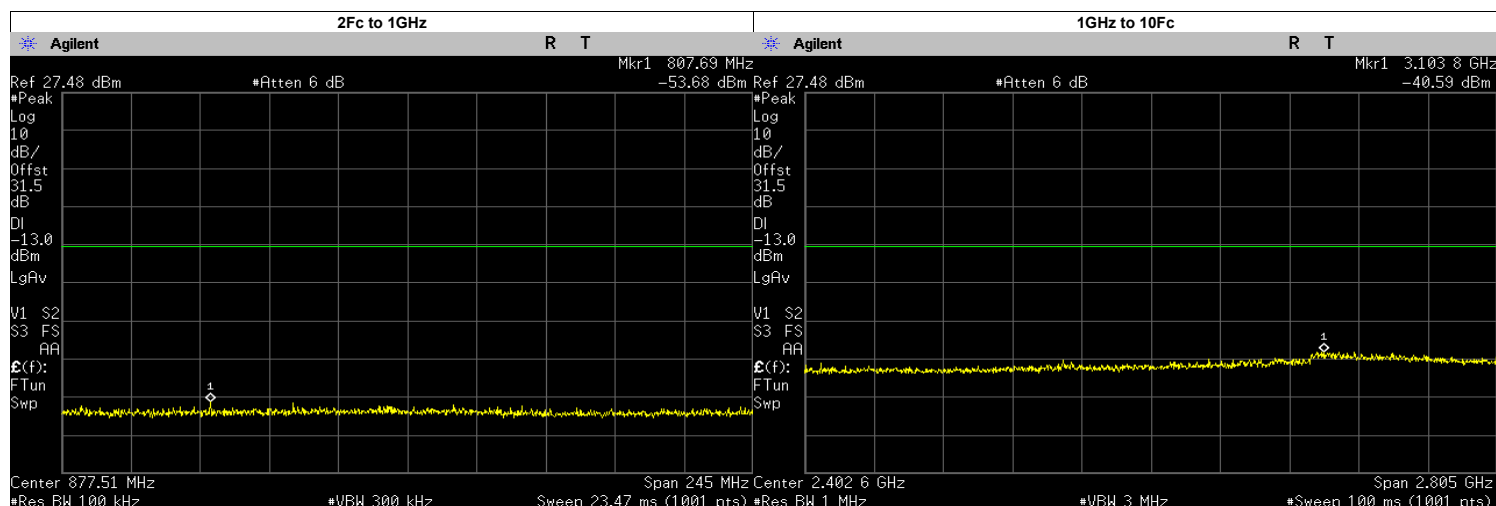
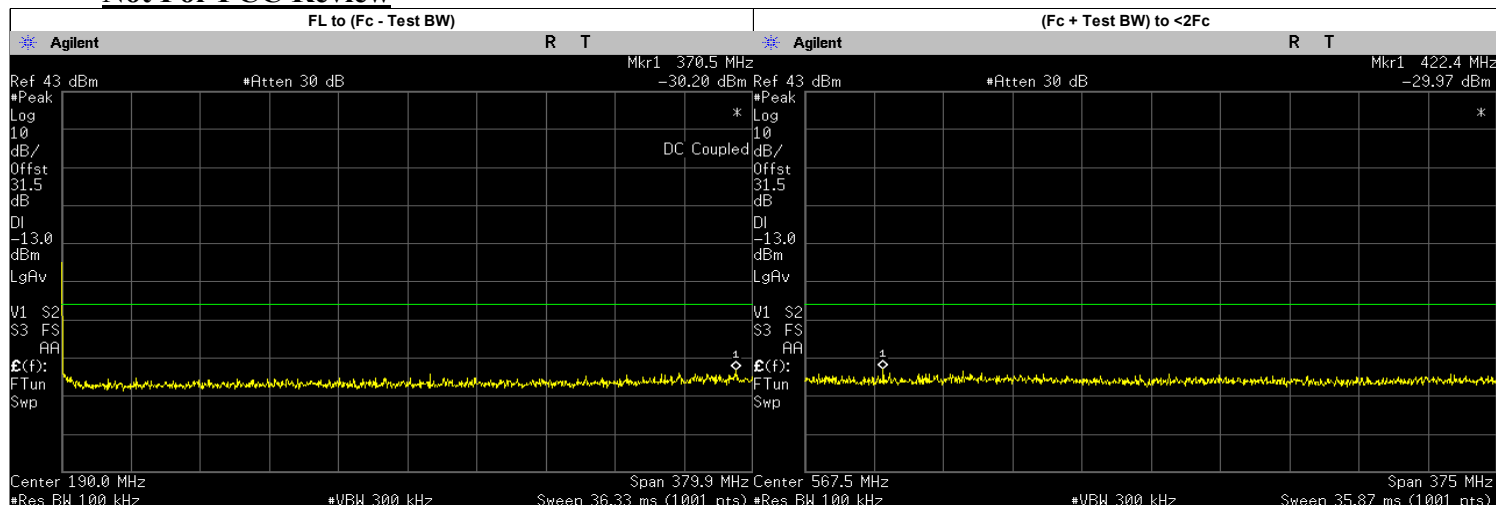
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	1.3000	-30.1200	-20.00	PASS
(Fc + Test BW) to <2Fc	628.0614	-31.9700	-20.00	PASS
2Fc to 1GHz	975.2007	-53.7600	-20.00	PASS
	859.9750	-56.3243	-20.00	PASS
1GHz to 10Fc	3068.8520	-39.9400	-20.00	PASS
	1289.9630	-44.5148	-20.00	PASS
	1719.9500	-45.0508	-20.00	PASS
	2149.9370	-44.1266	-20.00	PASS
	2579.9250	-43.7817	-20.00	PASS
	3009.9120	-43.0444	-20.00	PASS
	3439.9000	-42.0680	-20.00	PASS
	3869.8870	-43.1218	-20.00	PASS
	4299.8750	-43.8339	-20.00	PASS

FSK: 434.9875 MHz, 12.5 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



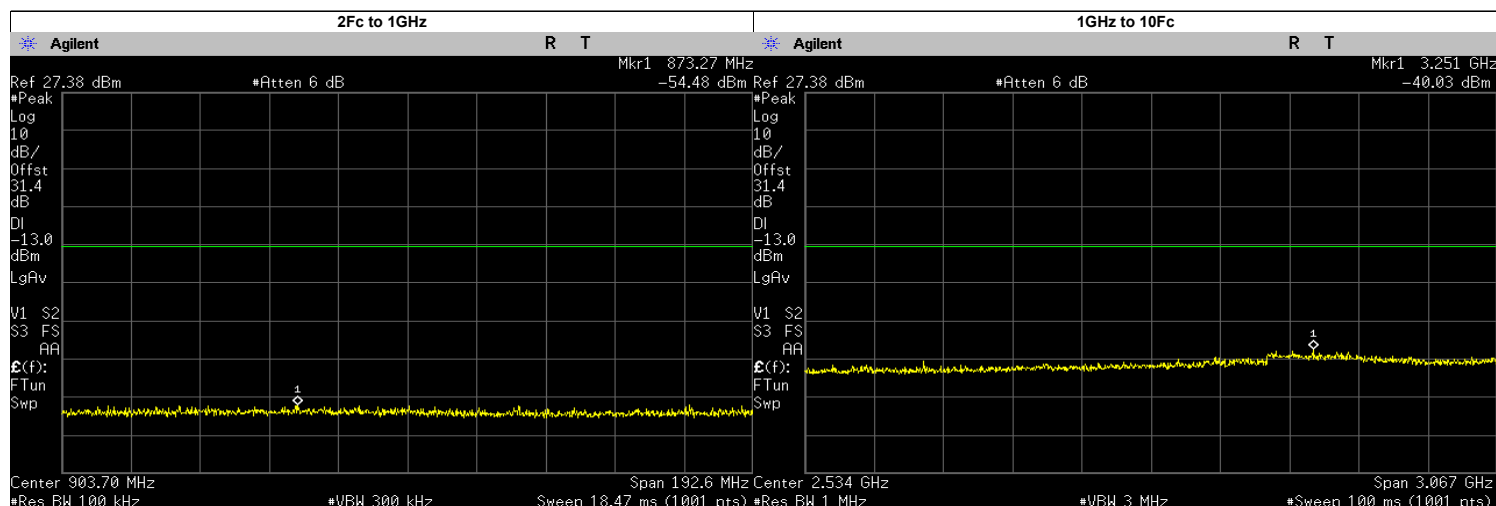
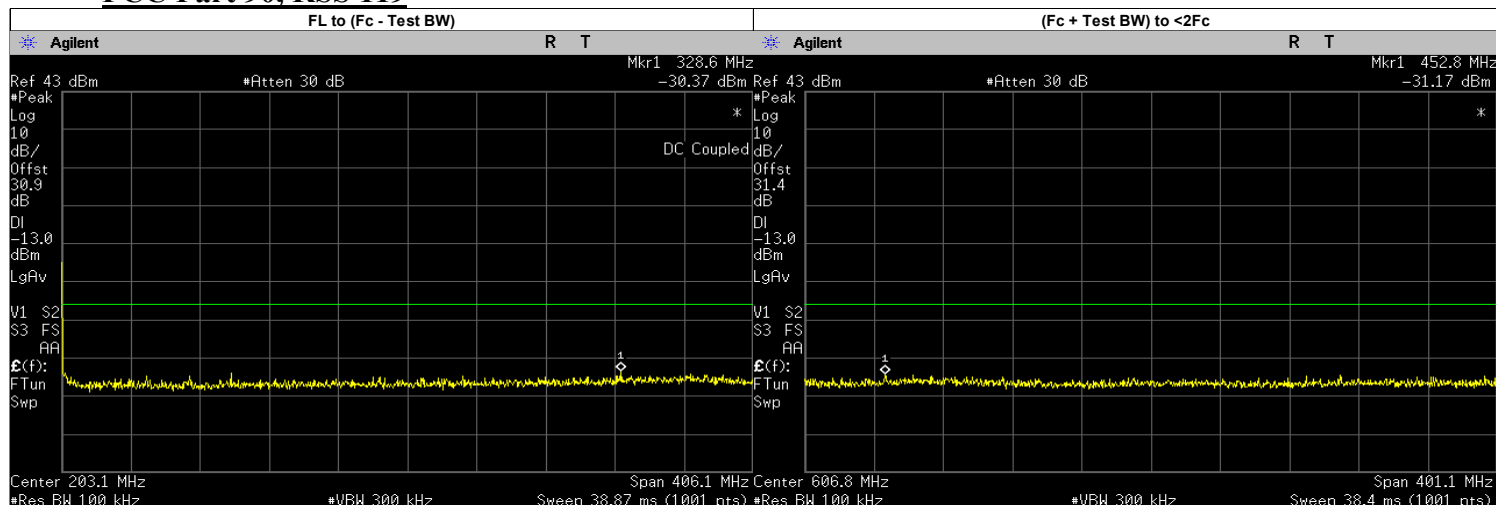
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	2.2000	-29.4200	-20.00	PASS
(Fc + Test BW) to <2Fc	860.6757	-30.7000	-20.00	PASS
2Fc to 1GHz	891.4399	-53.6400	-20.00	PASS
	869.9750	-55.2779	-20.00	PASS
1GHz to 10Fc	3220.9270	-39.9900	-20.00	PASS
	1304.9630	-43.8253	-20.00	PASS
	1739.9500	-44.7637	-20.00	PASS
	2174.9370	-44.0044	-20.00	PASS
	2609.9250	-43.6343	-20.00	PASS
	3044.9120	-42.4502	-20.00	PASS
	3479.9000	-41.8615	-20.00	PASS
	3914.8870	-41.7446	-20.00	PASS
	4349.8750	-43.6490	-20.00	PASS

FSK: 380.0125 MHz, 25 kHz Channel Spacing, High Power
Not For FCC Review



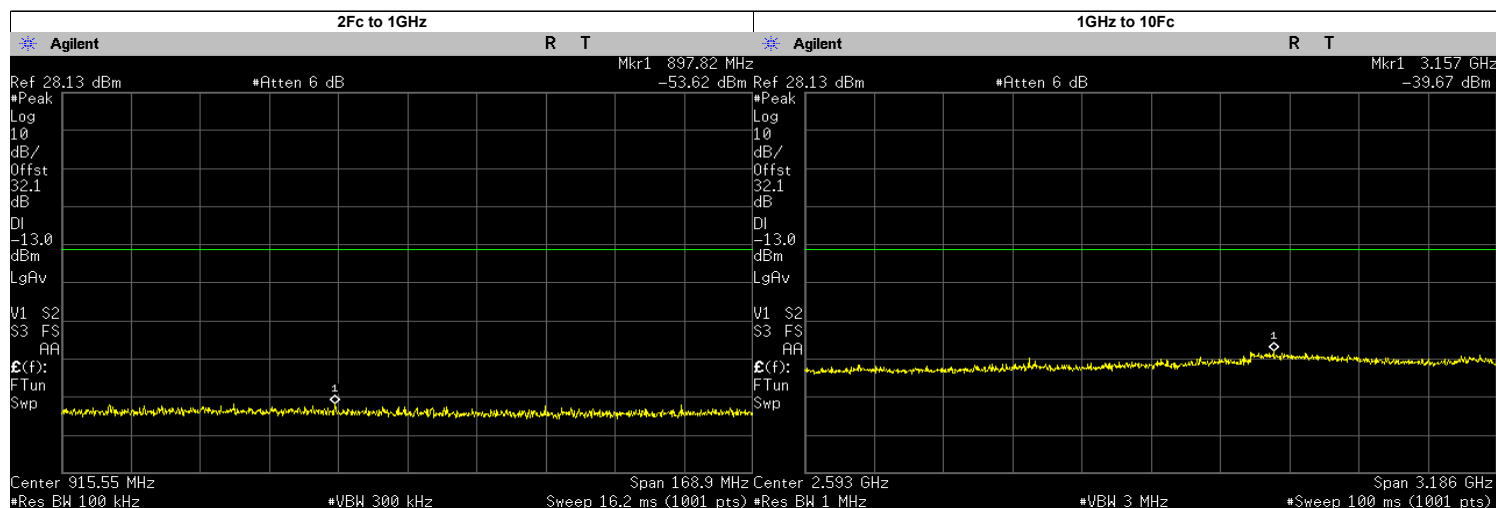
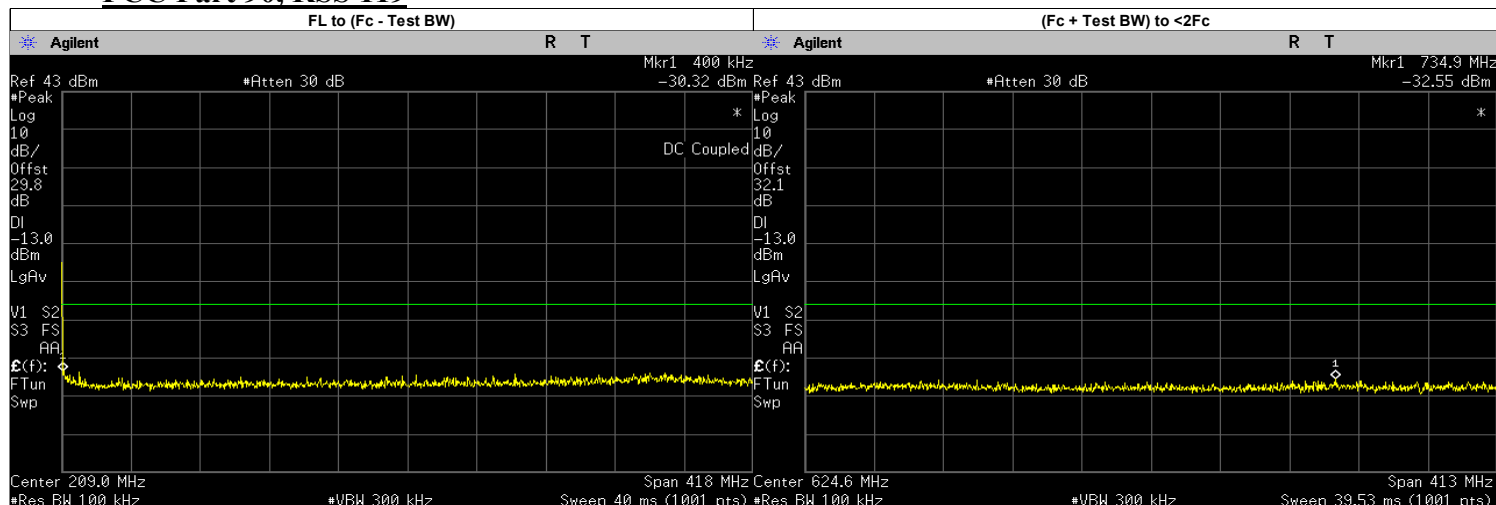
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	370.4582	-30.2000	-13.00	PASS
(Fc + Test BW) to <2Fc	422.4383	-29.9700	-13.00	PASS
2Fc to 1GHz	807.6946	-53.6800	-13.00	PASS
	760.0250	-55.9788	-13.00	PASS
1GHz to 10Fc	3103.8440	-40.5900	-13.00	PASS
	1140.0370	-45.8262	-13.00	PASS
	1520.0500	-45.2965	-13.00	PASS
	1900.0620	-44.9227	-13.00	PASS
	2280.0750	-44.6302	-13.00	PASS
	2660.0880	-43.9444	-13.00	PASS
	3040.1000	-42.7468	-13.00	PASS
	3420.1130	-42.3475	-13.00	PASS
	3800.1250	-42.2524	-13.00	PASS

FSK: 406.2 MHz, 25 kHz Channel Spacing, High Power
FCC Part 90, RSS 119



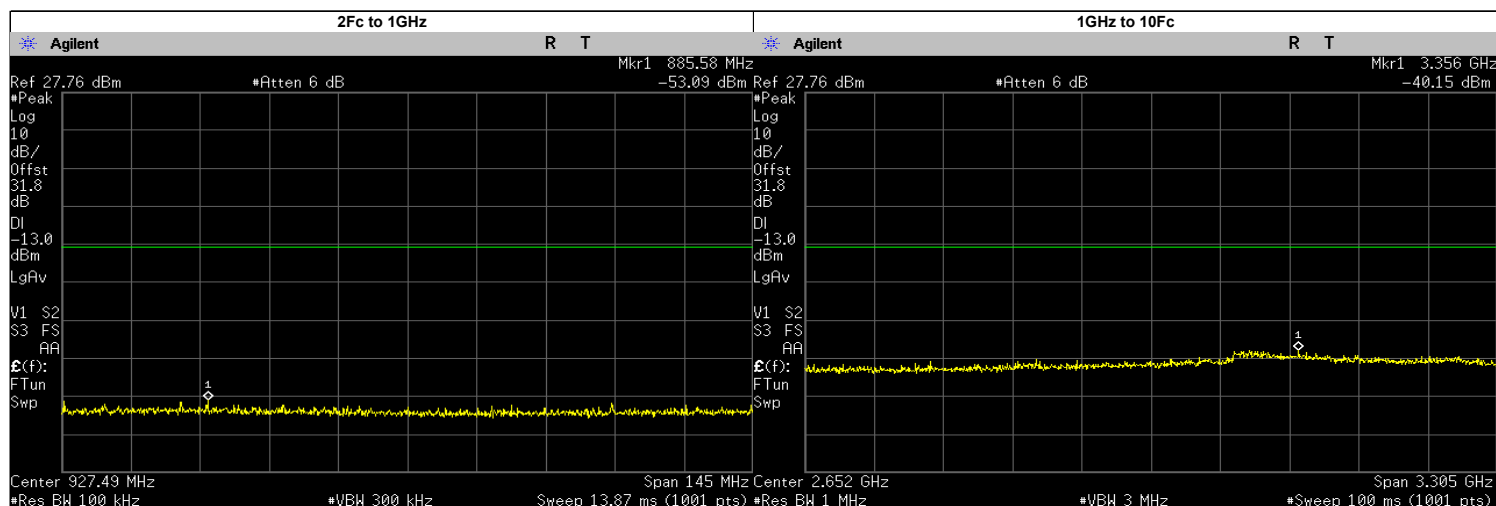
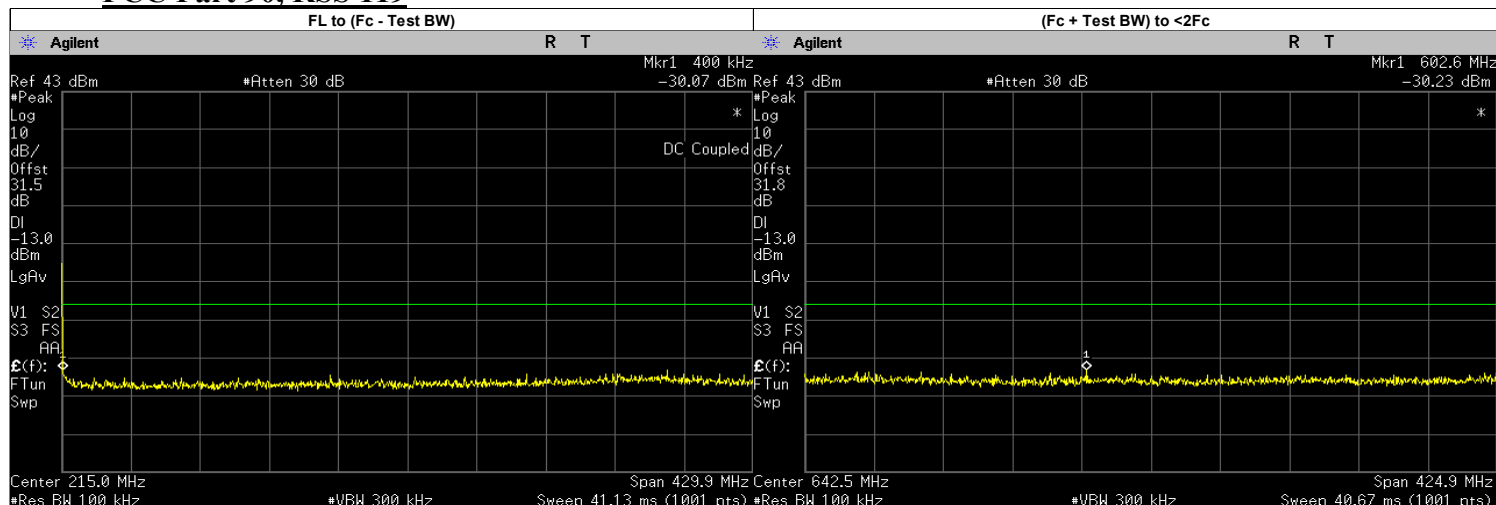
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	328.5725	-30.3700	-13.00	PASS
(Fc + Test BW) to <2Fc	452.7884	-31.1700	-13.00	PASS
2Fc to 1GHz	873.2692	-54.4800	-13.00	PASS
	812.4000	-56.4474	-13.00	PASS
1GHz to 10Fc	3251.1780	-40.0300	-13.00	PASS
	1218.6000	-45.8512	-13.00	PASS
	1624.8000	-45.7244	-13.00	PASS
	2031.0000	-44.6980	-13.00	PASS
	2437.2000	-44.9124	-13.00	PASS
	2843.4000	-44.0349	-13.00	PASS
	3249.6000	-40.8332	-13.00	PASS
	3655.8000	-43.6241	-13.00	PASS
	4062.0000	-43.5434	-13.00	PASS

FSK: 418.05 MHz, 25 kHz Channel Spacing, High Power
FCC Part 90, RSS 119



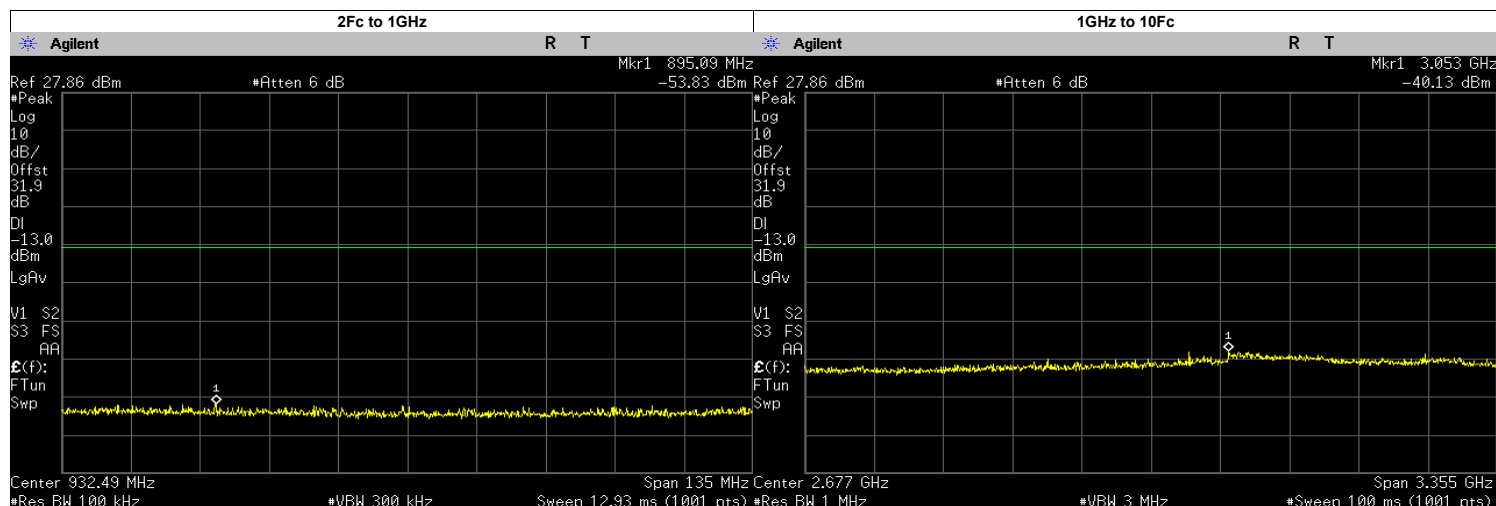
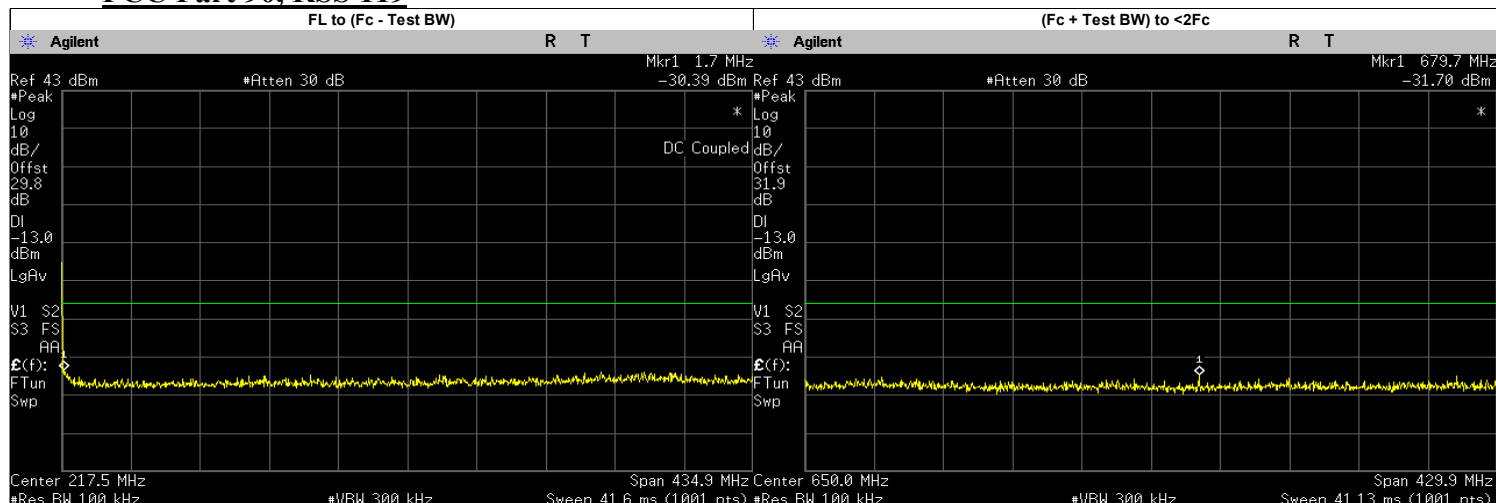
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-30.3200	-13.00	PASS
(Fc + Test BW) to <2Fc	734.8723	-32.5500	-13.00	PASS
2Fc to 1GHz	897.8155	-53.6200	-13.00	PASS
	836.1000	-56.2219	-13.00	PASS
1GHz to 10Fc	3156.5840	-39.6700	-13.00	PASS
	1254.1500	-44.5635	-13.00	PASS
	1672.2000	-44.6897	-13.00	PASS
	2090.2500	-43.8691	-13.00	PASS
	2508.3000	-43.2530	-13.00	PASS
	2926.3500	-42.5282	-13.00	PASS
	3344.4000	-41.3888	-13.00	PASS
	3762.4500	-42.3051	-13.00	PASS
	4180.5000	-42.6598	-13.00	PASS

FSK: 429.9875 MHz, 25 kHz Channel Spacing, High Power
FCC Part 90, RSS 119



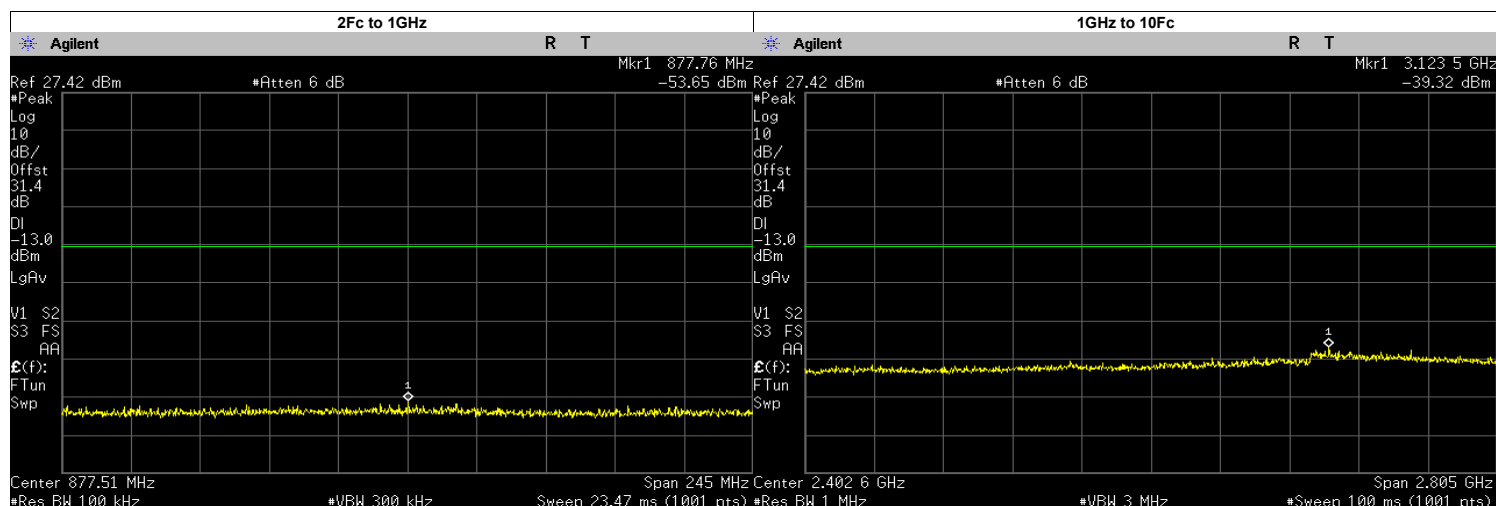
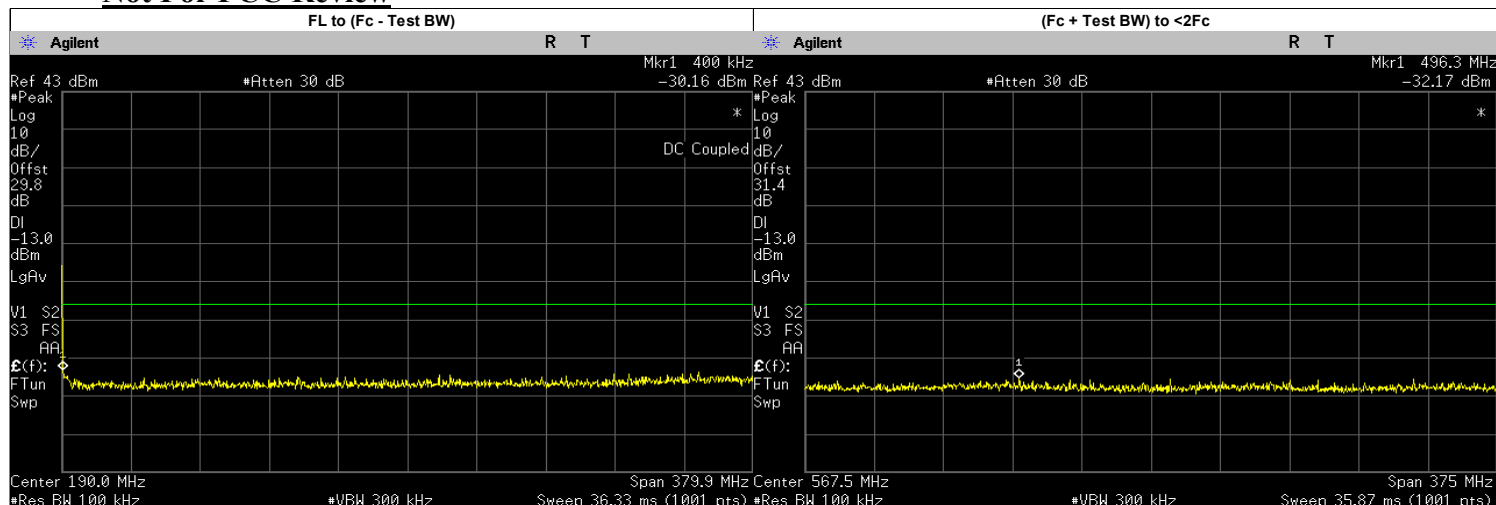
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	376.1915	-30.2960	-13.00	PASS
(Fc + Test BW) to <2Fc	602.5655	-30.2300	-13.00	PASS
2Fc to 1GHz	885.5753	-53.0900	-13.00	PASS
	859.9750	-55.5884	-13.00	PASS
1GHz to 10Fc	3356.3760	-40.1500	-13.00	PASS
	1289.9630	-45.2618	-13.00	PASS
	1719.9500	-44.9491	-13.00	PASS
	2149.9370	-44.9345	-13.00	PASS
	2579.9250	-43.9898	-13.00	PASS
	3009.9120	-42.8779	-13.00	PASS
	3439.9000	-41.0981	-13.00	PASS
	3869.8870	-43.3769	-13.00	PASS
	4299.8750	-44.0413	-13.00	PASS

FSK: 434.9875 MHz, 25 kHz Channel Spacing, High Power
FCC Part 90, RSS 119



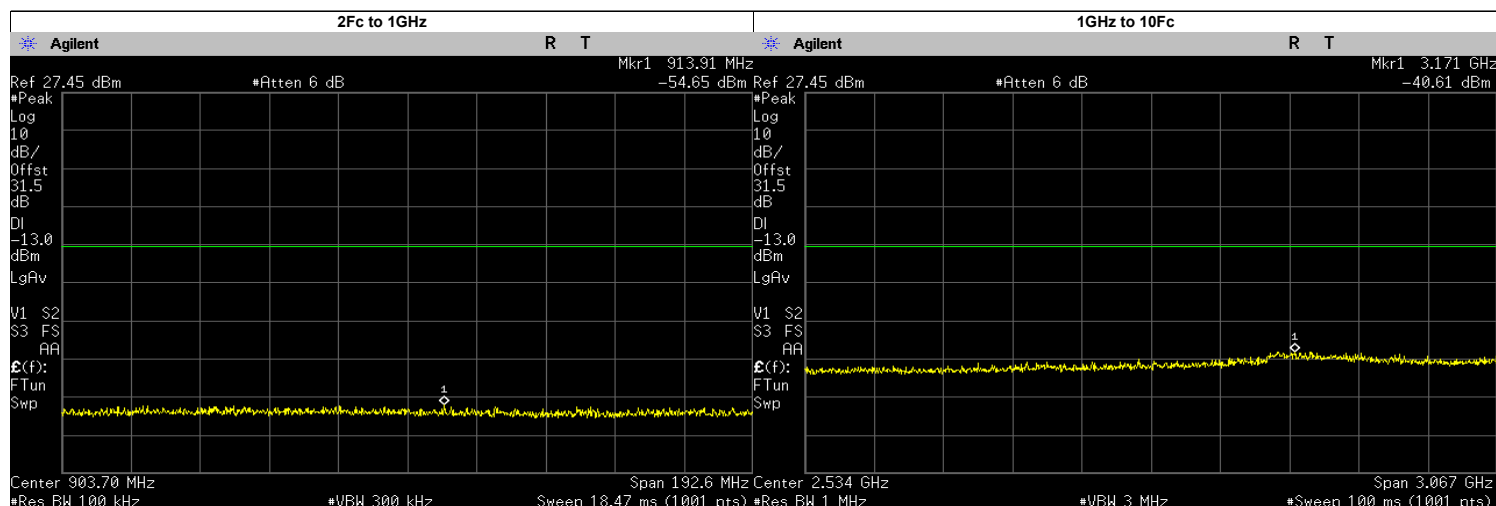
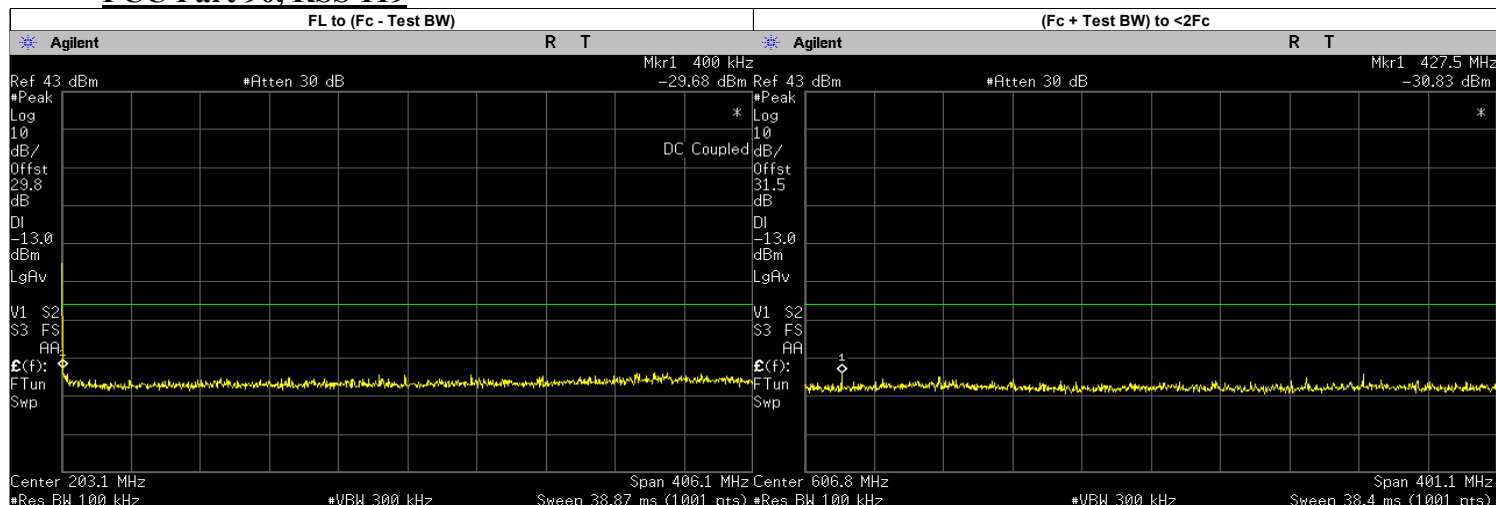
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	1.7000	-30.3900	-13.00	PASS
(Fc + Test BW) to <2Fc	679.6744	-31.7000	-13.00	PASS
2Fc to 1GHz	895.0856	-53.8300	-13.00	PASS
	869.9750	-56.8048	-13.00	PASS
1GHz to 10Fc	3053.1840	-40.1300	-13.00	PASS
	1304.9630	-44.8164	-13.00	PASS
	1739.9500	-44.5621	-13.00	PASS
	2174.9370	-43.6627	-13.00	PASS
	2609.9250	-43.9562	-13.00	PASS
	3044.9120	-42.8529	-13.00	PASS
	3479.9000	-41.9670	-13.00	PASS
	3914.8870	-42.9989	-13.00	PASS
	4349.8750	-43.2262	-13.00	PASS

FSK: 380.0125 MHz, 25 kHz Channel Spacing, Low Power
Not For FCC Review



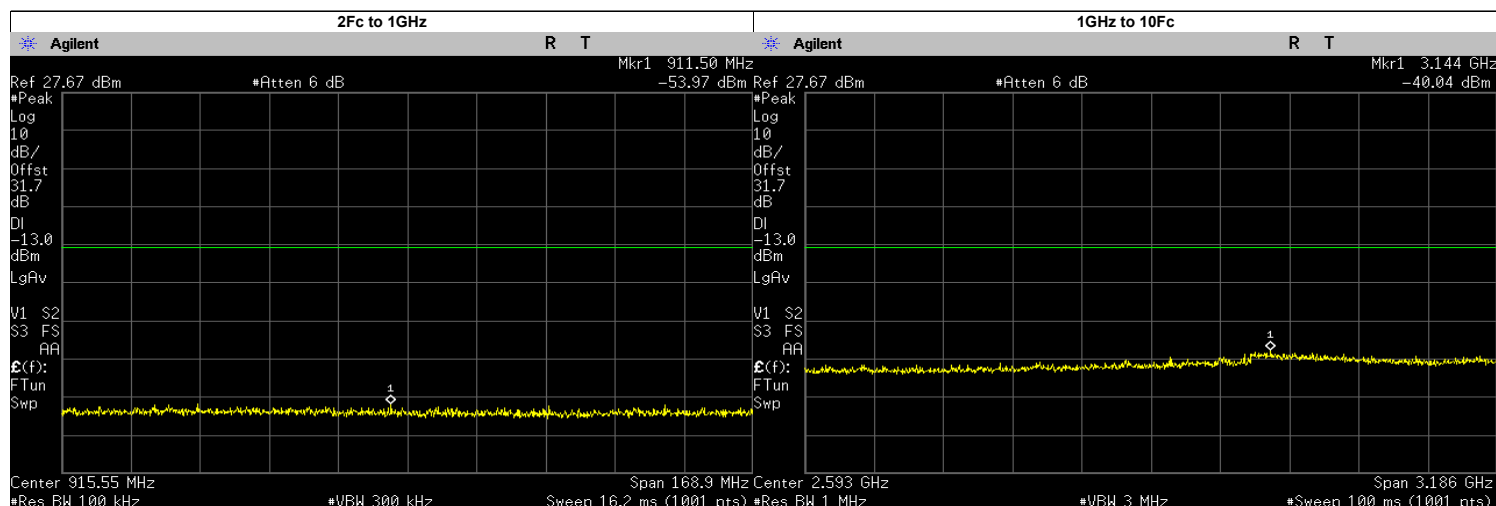
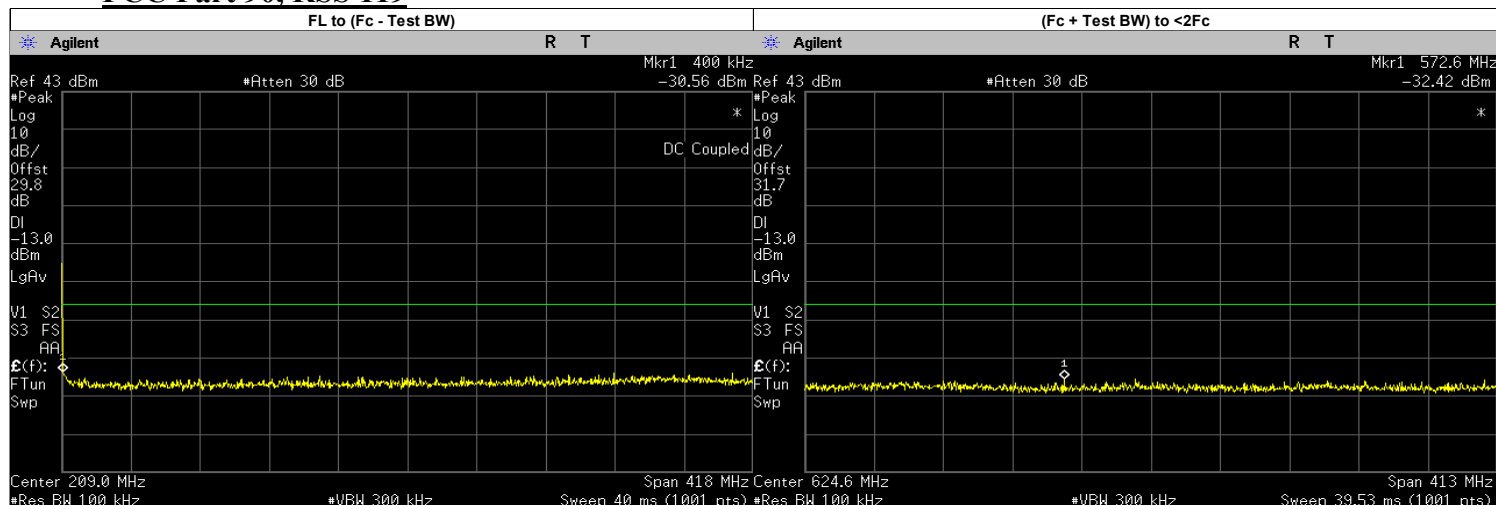
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-30.1600	-13.00	PASS
(Fc + Test BW) to <2Fc	496.3048	-32.1700	-13.00	PASS
2Fc to 1GHz	877.7575	-53.6500	-13.00	PASS
	760.0250	-56.9071	-13.00	PASS
1GHz to 10Fc	3123.4800	-39.3200	-13.00	PASS
	1140.0370	-45.9617	-13.00	PASS
	1520.0500	-45.6965	-13.00	PASS
	1900.0620	-45.5023	-13.00	PASS
	2280.0750	-45.4161	-13.00	PASS
	2660.0880	-44.3779	-13.00	PASS
	3040.1000	-43.5061	-13.00	PASS
	3420.1130	-42.5139	-13.00	PASS
	3800.1250	-43.8983	-13.00	PASS

FSK: 406.2 MHz, 25 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



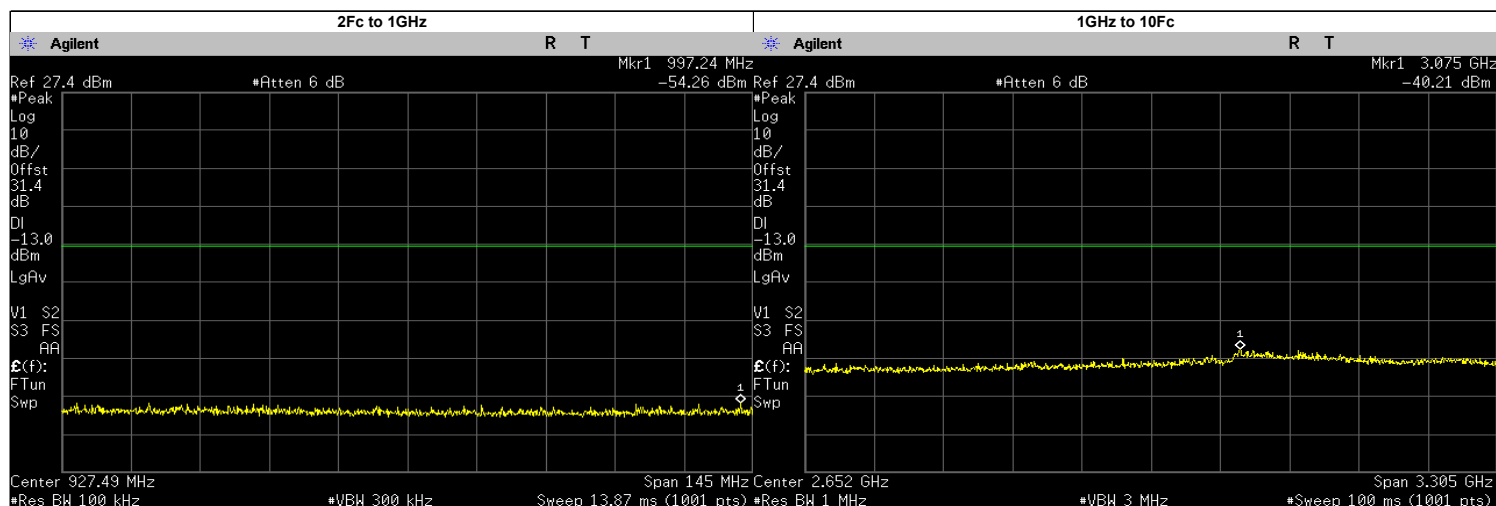
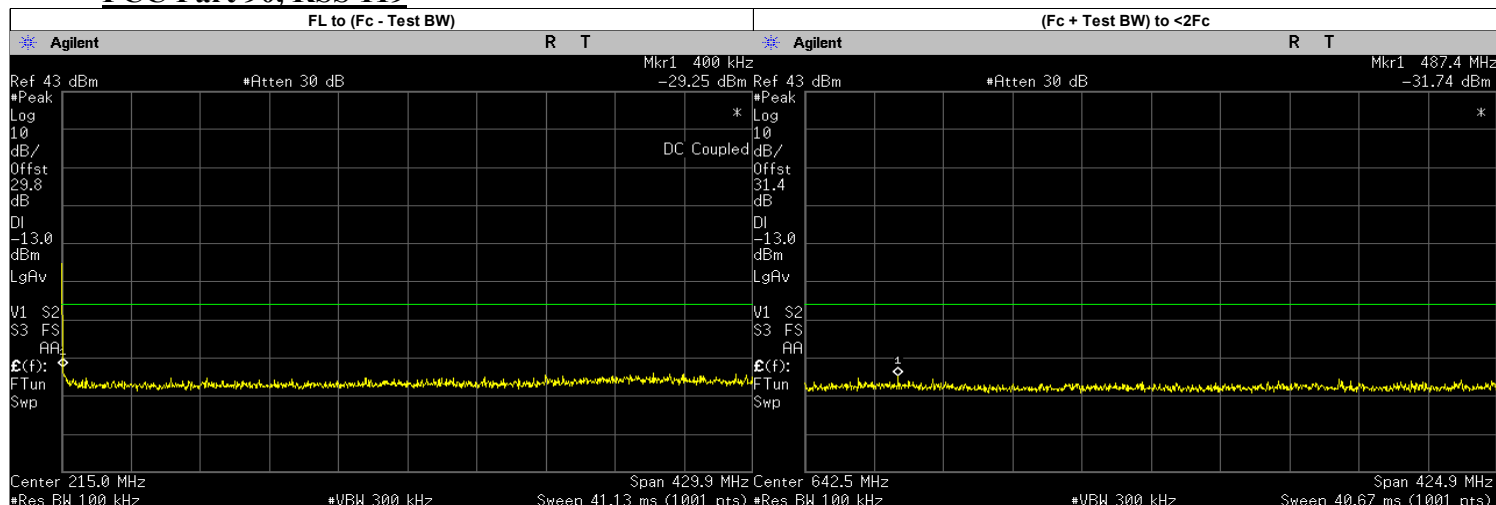
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-29.6800	-13.00	PASS
(Fc + Test BW) to <2Fc	427.5163	-30.8300	-13.00	PASS
2Fc to 1GHz	913.9078	-54.6500	-13.00	PASS
	812.4000	-55.7961	-13.00	PASS
1GHz to 10Fc	3171.4360	-40.6100	-13.00	PASS
	1218.6000	-45.8915	-13.00	PASS
	1624.8000	-45.2778	-13.00	PASS
	2031.0000	-44.3860	-13.00	PASS
	2437.2000	-44.5665	-13.00	PASS
	2843.4000	-43.4056	-13.00	PASS
	3249.6000	-41.3418	-13.00	PASS
	3655.8000	-42.5629	-13.00	PASS
	4062.0000	-42.8688	-13.00	PASS

FSK: 418.05 MHz, 25 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



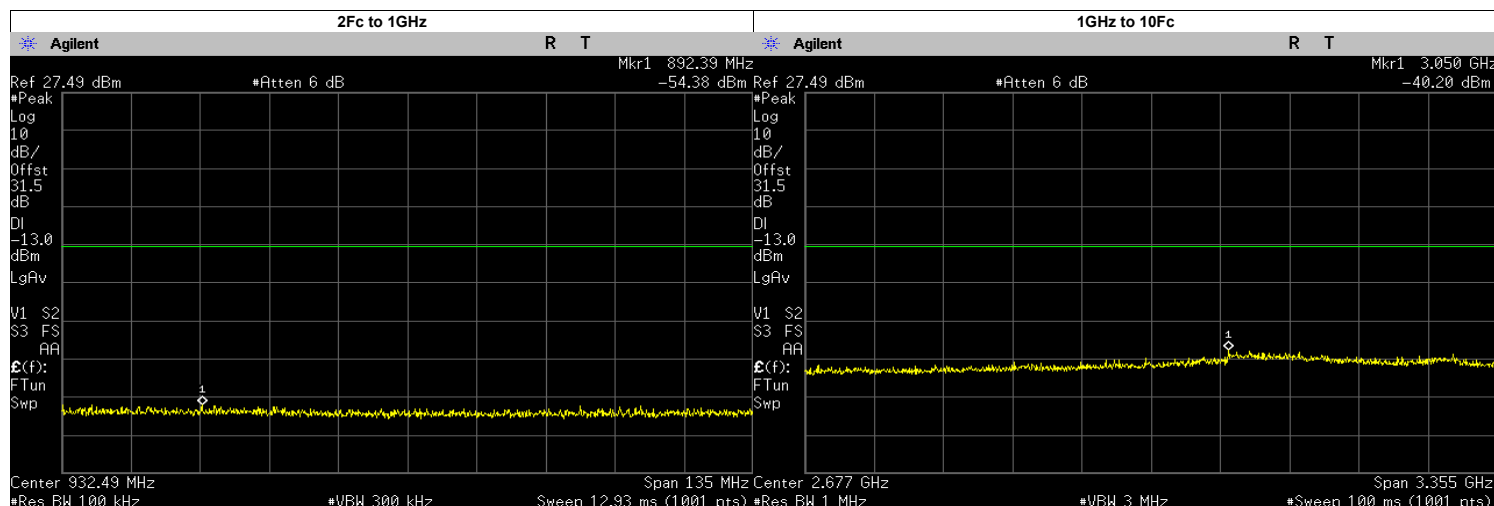
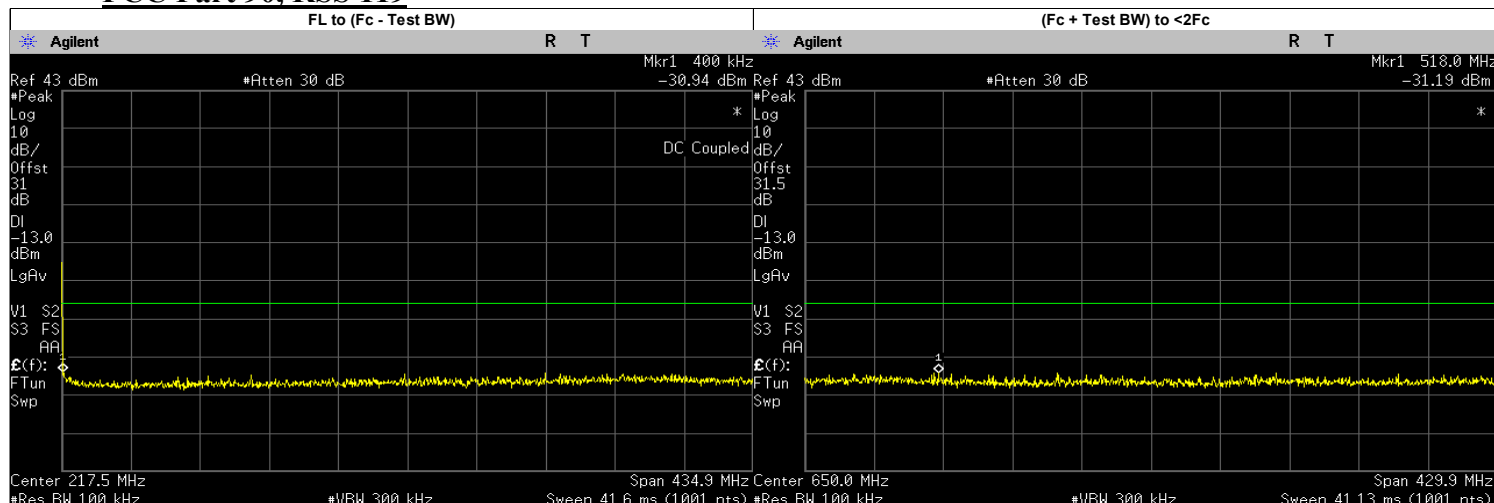
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-30.5600	-13.00	PASS
(Fc + Test BW) to <2Fc	572.5655	-32.6601	-13.00	PASS
2Fc to 1GHz	911.4964	-53.9700	-13.00	PASS
	836.1000	-56.7880	-13.00	PASS
1GHz to 10Fc	3143.8410	-40.0400	-13.00	PASS
	1254.1500	-44.7275	-13.00	PASS
	1672.2000	-44.4492	-13.00	PASS
	2090.2500	-44.6581	-13.00	PASS
	2508.3000	-44.2079	-13.00	PASS
	2926.3500	-41.9398	-13.00	PASS
	3344.4000	-42.3610	-13.00	PASS
	3762.4500	-42.4086	-13.00	PASS
	4180.5000	-42.5909	-13.00	PASS

FSK: 429.9875 MHz, 25 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-29.2500	-13.00	PASS
(Fc + Test BW) to <2Fc	487.4089	-31.7400	-13.00	PASS
2Fc to 1GHz	997.2445	-54.2600	-13.00	PASS
	859.9750	-55.7302	-13.00	PASS
1GHz to 10Fc	3075.4610	-40.2100	-13.00	PASS
	1289.9630	-44.7058	-13.00	PASS
	1719.9500	-44.9708	-13.00	PASS
	2149.9370	-44.0467	-13.00	PASS
	2579.9250	-44.1389	-13.00	PASS
	3009.9120	-43.0374	-13.00	PASS
	3439.9000	-42.3802	-13.00	PASS
	3869.8870	-43.6485	-13.00	PASS
	4299.8750	-44.4841	-13.00	PASS

FSK: 434.9875 MHz, 25 kHz Channel Spacing, Low Power
FCC Part 90, RSS 119



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.4000	-30.9400	-13.00	PASS
(Fc + Test BW) to <2Fc	518.0200	-31.1900	-13.00	PASS
2Fc to 1GHz	892.3851	-54.3800	-13.00	PASS
	869.9750	-56.6231	-13.00	PASS
1GHz to 10Fc	3049.8290	-40.2000	-13.00	PASS
	1304.9630	-45.5040	-13.00	PASS
	1739.9500	-45.4006	-13.00	PASS
	2174.9370	-44.3708	-13.00	PASS
	2609.9250	-44.8019	-13.00	PASS
	3044.9120	-43.0069	-13.00	PASS
	3479.9000	-42.1376	-13.00	PASS
	3914.8870	-44.1269	-13.00	PASS
	4349.8750	-43.5872	-13.00	PASS

6.10.4. Test Limit

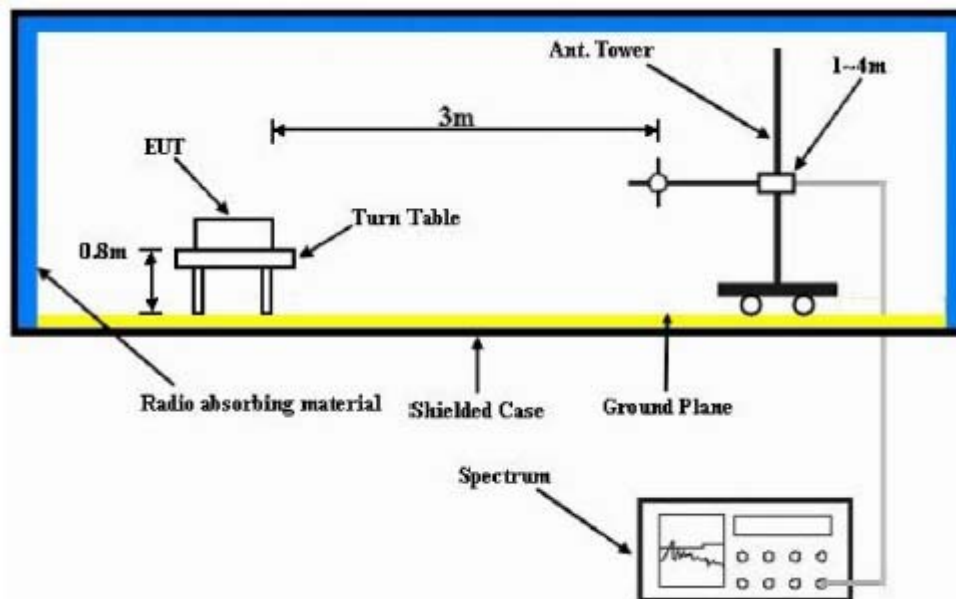
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

Channel Spacing	Part 22	Part 24D	Part 74	Part 80	Part 90 (UHF, VHF, 800, 900)	Part 90 (700)
12.5kHz	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	Not Applicable	50 + log10(P) (-20 dBm)	43 + log10(P) (-13 dBm)
25kHz		Not Applicable		43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)

Channel Spacing	RSS 134	RSS 182	RSS 119 (UHF, VHF, 800, 900)	RSS 119 (700)
12.5kHz	43 + log10(P) (-13 dBm)	Not Applicable	50 + log10(P) (-20 dBm)	43 + log10(P) (-13 dBm)
25kHz	Not Applicable	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)	43 + log10(P) (-13 dBm)

6.11. Radiated Spurious Emission

6.11.1. Test Setup



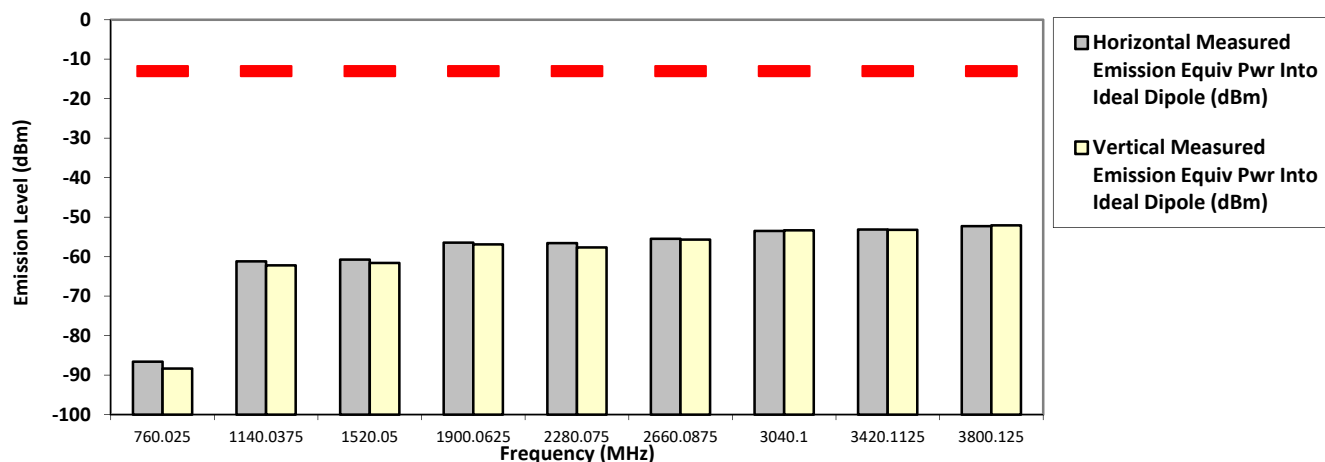
- 1) The Resolution Bandwidth for scanning Radiated Emission below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector mode is positive peak.
- 2) In the semi- anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height (for $F_c < 1\text{GHz}$) or 1.5m height (for $F_c > 1\text{GHz}$) of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- 3) The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
- 4) Final Radiated Spurious Emission = “Read Value” + Measured substitution value.

6.11.2. Test Result (Analog)

SAC Transmitter Radiated Emission:
Model Number: T7039A (T7039-UHFR1C) S/N: 112CVX1806 SR:19587-EMC-00009
Battery Part No: NA Accy Part No: 3082933N20-C3
Test Mode: TX Analog
380.012500 MHz 25 kHz 2.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
760.0250	-13.0000	-86.5957 **	-88.3413 **
1140.0375	-13.0000	-61.1816 **	-62.1944 **
1520.0500	-13.0000	-60.7484 **	-61.6127 **
1900.0625	-13.0000	-56.4479 **	-56.8889 **
2280.0750	-13.0000	-56.5757 **	-57.6740 **
2660.0875	-13.0000	-55.4884 **	-55.6842 **
3040.1000	-13.0000	-53.4842 **	-53.3204 **
3420.1125	-13.0000	-53.1388 **	-53.2014 **
3800.1250	-13.0000	-52.2881 **	-52.0775 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Tue, Jan 21, 2020

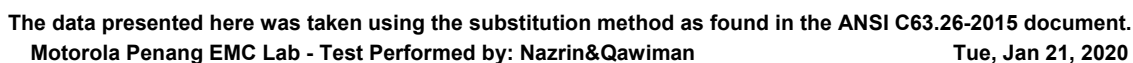
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

[illegible]

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

406.200000 MHz

Test Mode: TX Analog
25 kHz

2.000 Watt(s) /Low Power

[illegible]

Frequency (MHz)	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
812.4	-87	-88
1218.6	-61	-61
1624.8	-59	-59
2031	-57	-57
2437.2	-56	-55
2843.4	-53	-55
3249.6	-52	-53
3655.8	-52	-52
4062	-51	-49

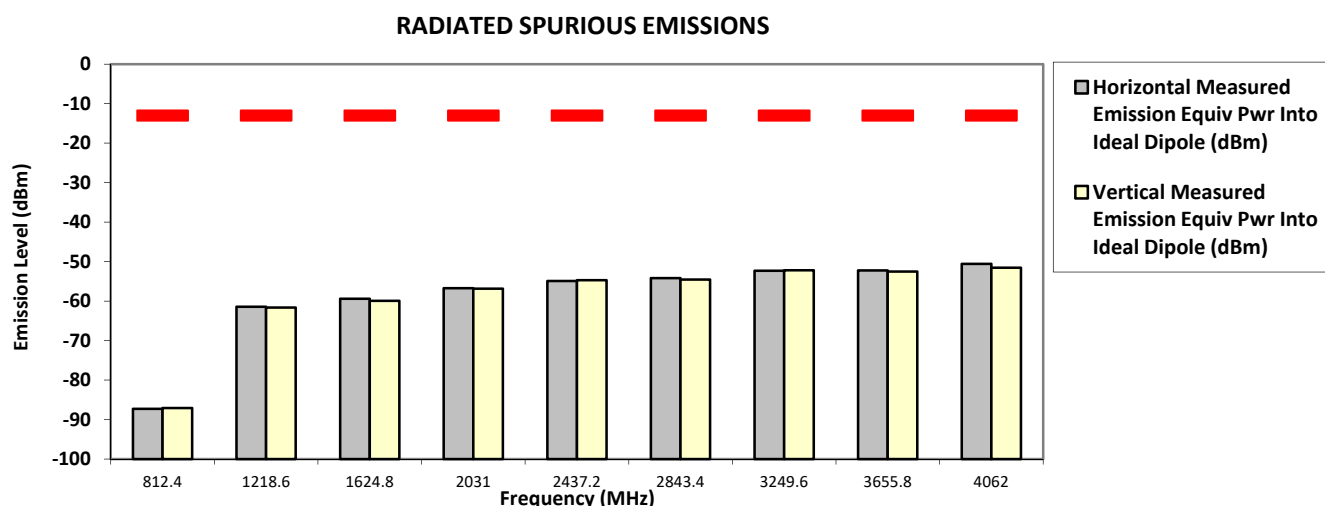
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

SAC Transmitter Radiated Emission:		
Model Number: T7039A (T7039-UHFR1C)	S/N: 112CVX1806	SR:19587-EMC-00009
Battery Part No: NA	Accy Part No: 3082933N20-C3	
Test Mode: TX Analog		
406.200000 MHz	25 kHz	110.000 Watt(s) /Max Power

[illegible]

The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

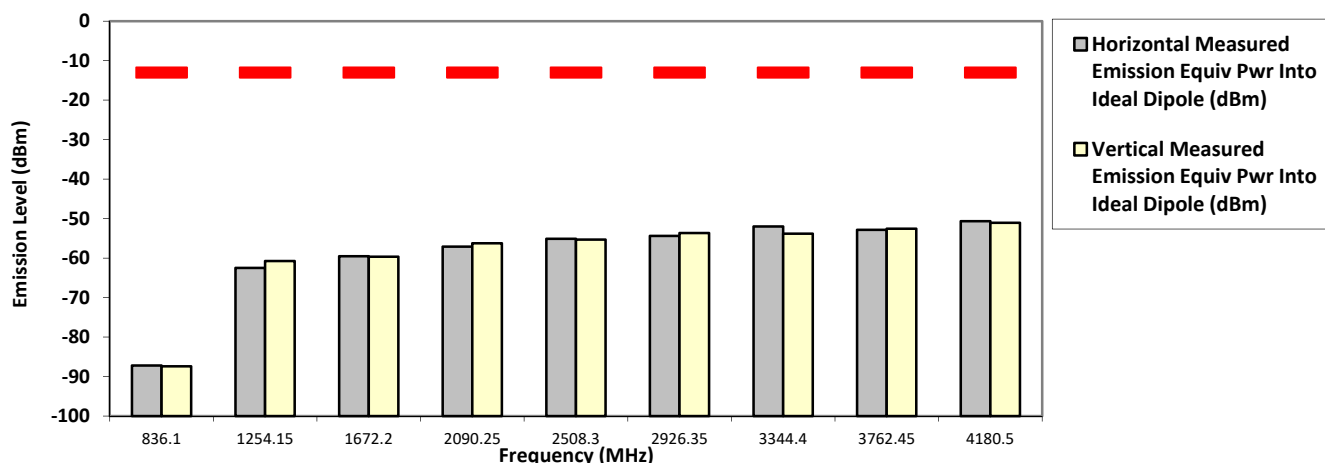
System MU: 4.03 dB

Remarks:	Passed Results	Marginal Results	Failed Results

418.050000 MHz

[illegible]

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

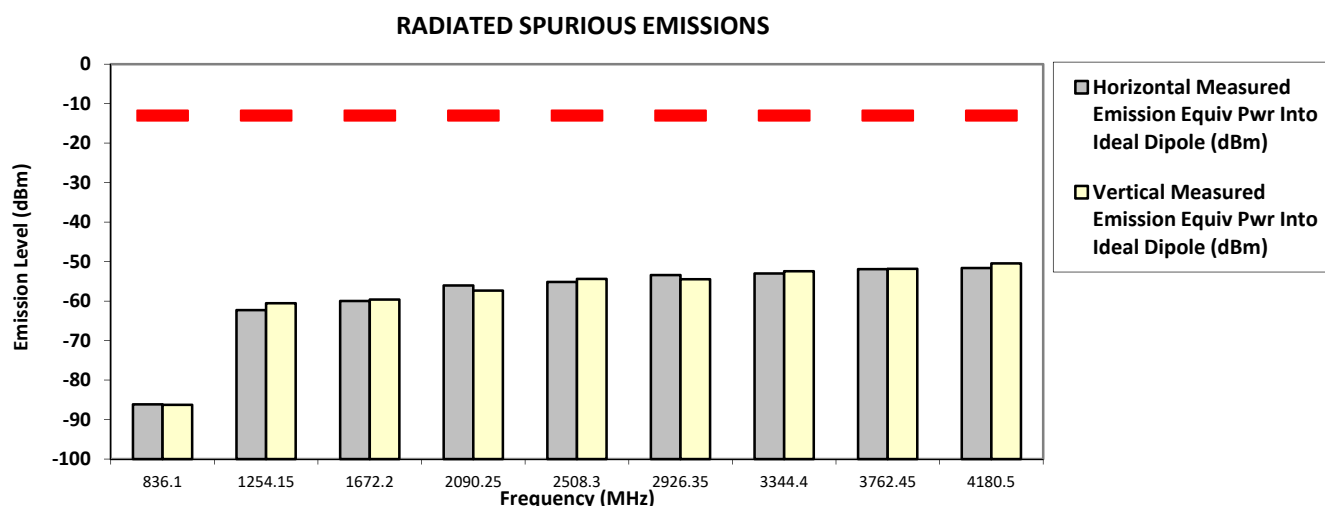
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

SAC Transmitter Radiated Emission:		
Model Number: T7039A (T7039-UHFR1C)	S/N: 112CVX1806	SR:19587-EMC-00009
Battery Part No: NA	Accy Part No: 3082933N20-C3	
	Test Mode: TX Analog	
418.050000 MHz	25 kHz	110.000 Watt(s) /Max Power

[illegible]

The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

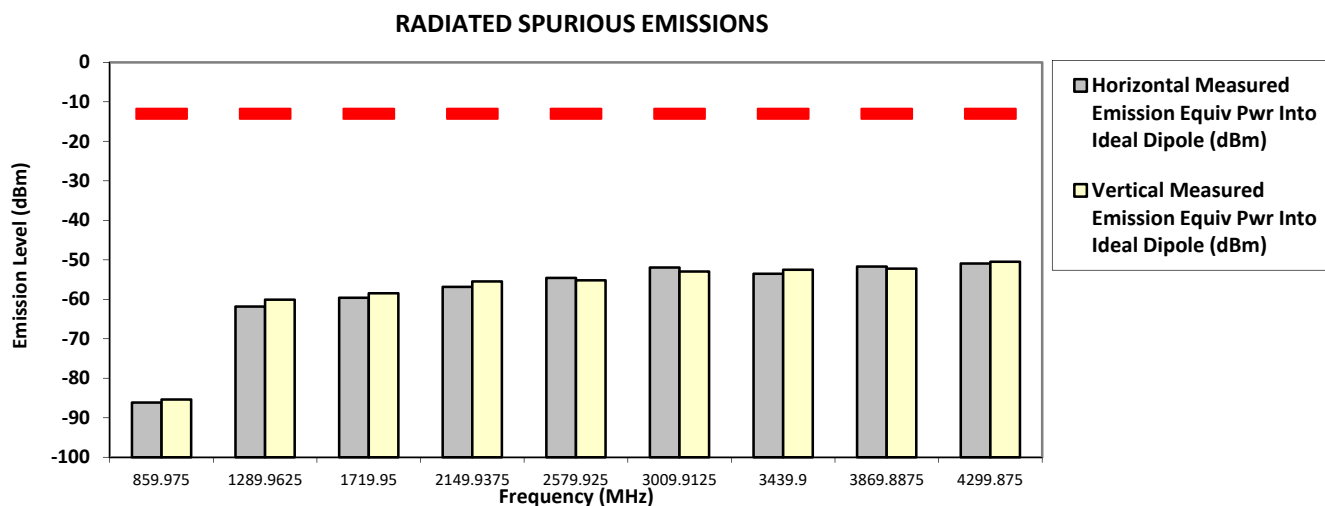
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks:	Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission:
Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX Analog
429.987500 MHz **25 kHz** **2.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
859.9750	-13.0000	-86.1605 **	-85.3971 **
1289.9625	-13.0000	-61.8603 **	-60.0956 **
1719.9500	-13.0000	-59.6030 **	-58.4706 **
2149.9375	-13.0000	-56.8678 **	-55.4693 **
2579.9250	-13.0000	-54.6076 **	-55.2118 **
3009.9125	-13.0000	-51.9682 **	-52.9697 **
3439.9000	-13.0000	-53.5282 **	-52.5144 **
3869.8875	-13.0000	-51.7234 **	-52.2191 **
4299.8750	-13.0000	-50.9388 **	-50.5137 **



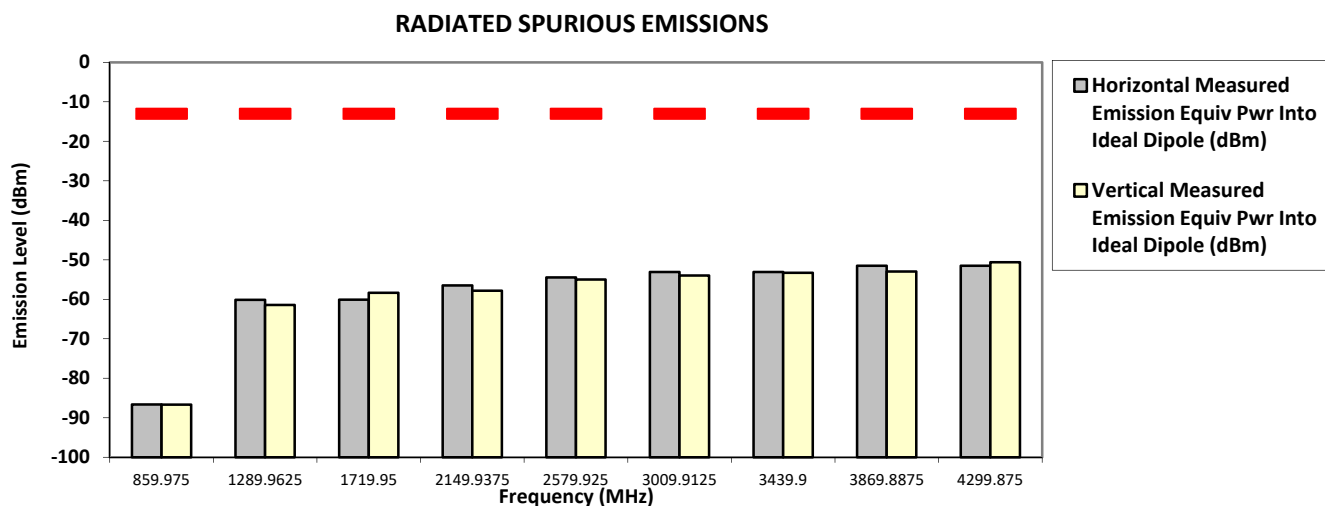
The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Jan 19, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

429.987500 MHz

[illegible]

The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

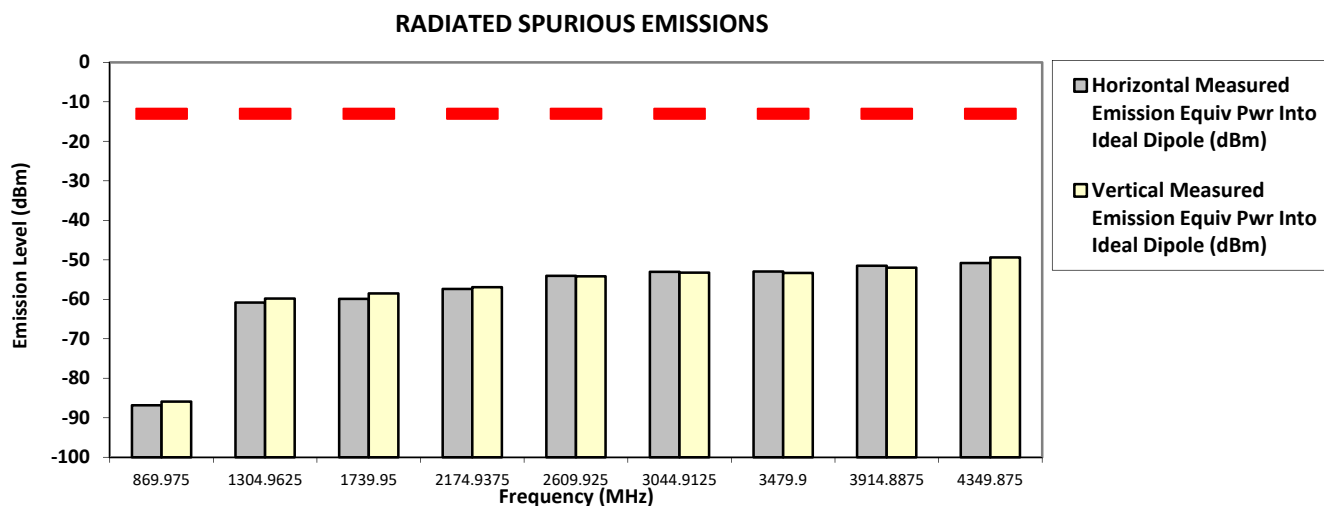
SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**

Test Mode: TX Analog

434.987500 MHz **25 kHz** **2.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
869.9750	-13.0000	-86.8573 **	-85.9018 **
1304.9625	-13.0000	-60.8379 **	-59.7980 **
1739.9500	-13.0000	-59.8878 **	-58.4999 **
2174.9375	-13.0000	-57.3726 **	-56.9330 **
2609.9250	-13.0000	-54.0657 **	-54.1897 **
3044.9125	-13.0000	-53.0324 **	-53.2712 **
3479.9000	-13.0000	-52.9823 **	-53.3482 **
3914.8875	-13.0000	-51.5287 **	-52.0094 **
4349.8750	-13.0000	-50.8332 **	-49.3911 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Jan 19, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

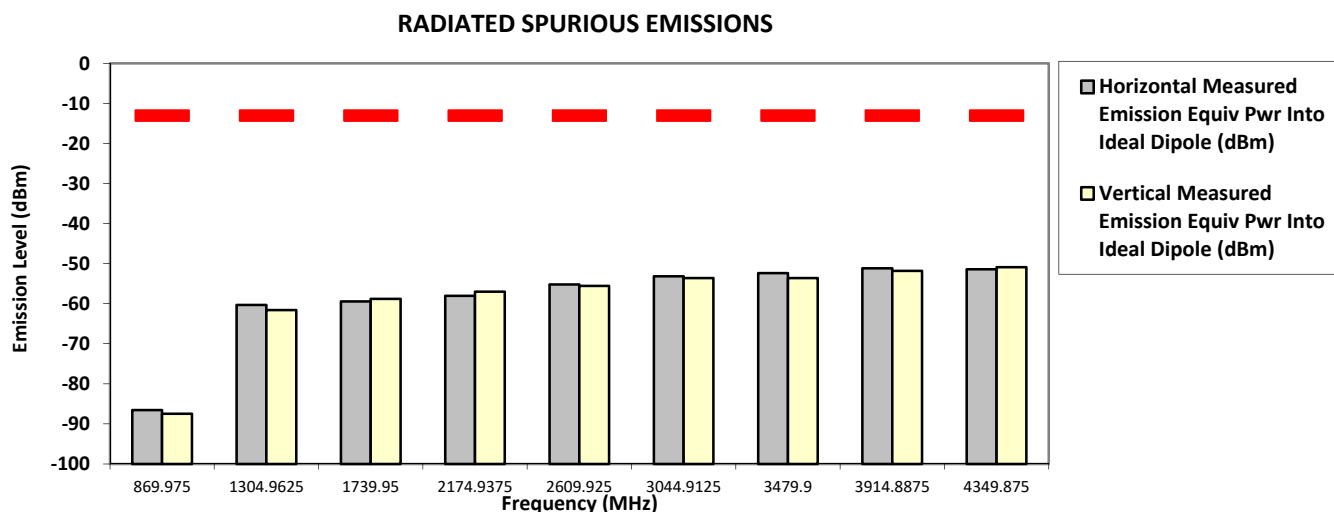
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
434.987500 MHz **Test Mode: TX Analog** **25 kHz** **110.000 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
869.9750	-13.0000	-86.5774 **	-87.4576 **
1304.9625	-13.0000	-60.3238 **	-61.6126 **
1739.9500	-13.0000	-59.4350 **	-58.8035 **
2174.9375	-13.0000	-58.0443 **	-57.0169 **
2609.9250	-13.0000	-55.1855 **	-55.5532 **
3044.9125	-13.0000	-53.1694 **	-53.5962 **
3479.9000	-13.0000	-52.3841 **	-53.5855 **
3914.8875	-13.0000	-51.1843 **	-51.8037 **
4349.8750	-13.0000	-51.4024 **	-50.8822 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Jan 19, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

6.11.3. Test Result (Digital)

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C)

S/N: 112CVX1806

SR:19587-EMC-00009

Battery Part No: NA

Accy Part No: 3082933N20-C3

Test Mode: TX Digital C4FM

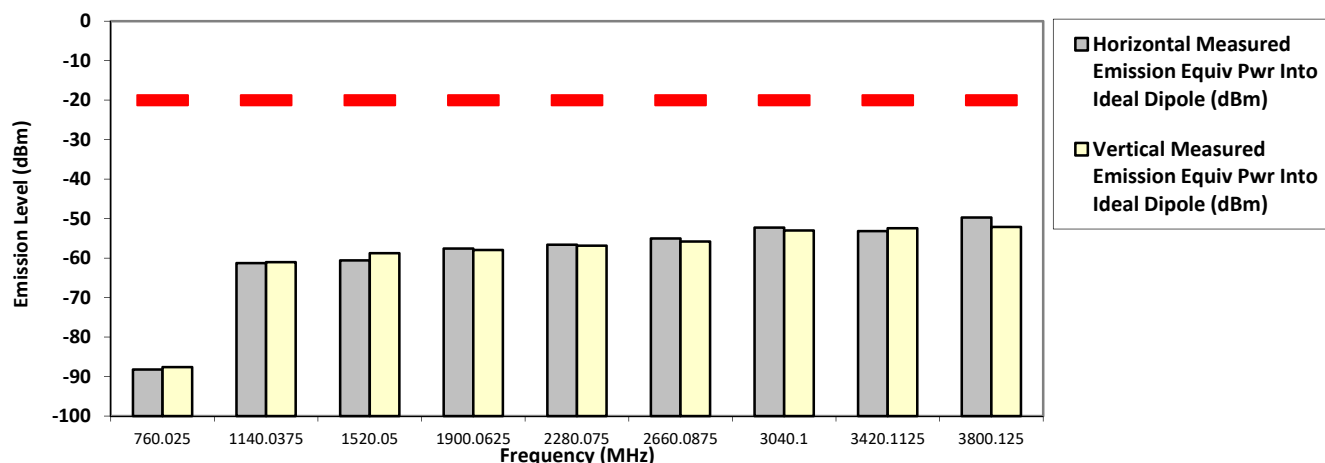
380.012500 MHz

12.5 kHz

2.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
760.0250	-20.0000	-88.2028 **	-87.6118 **
1140.0375	-20.0000	-61.2615 **	-61.0468 **
1520.0500	-20.0000	-60.6055 **	-58.7587 **
1900.0625	-20.0000	-57.5789 **	-57.9437 **
2280.0750	-20.0000	-56.6298 **	-56.8675 **
2660.0875	-20.0000	-55.0548 **	-55.8048 **
3040.1000	-20.0000	-52.2854 **	-53.0084 **
3420.1125	-20.0000	-53.1561 **	-52.4484 **
3800.1250	-20.0000	-49.7208 **	-52.1094 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Tue, Jan 21, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks:

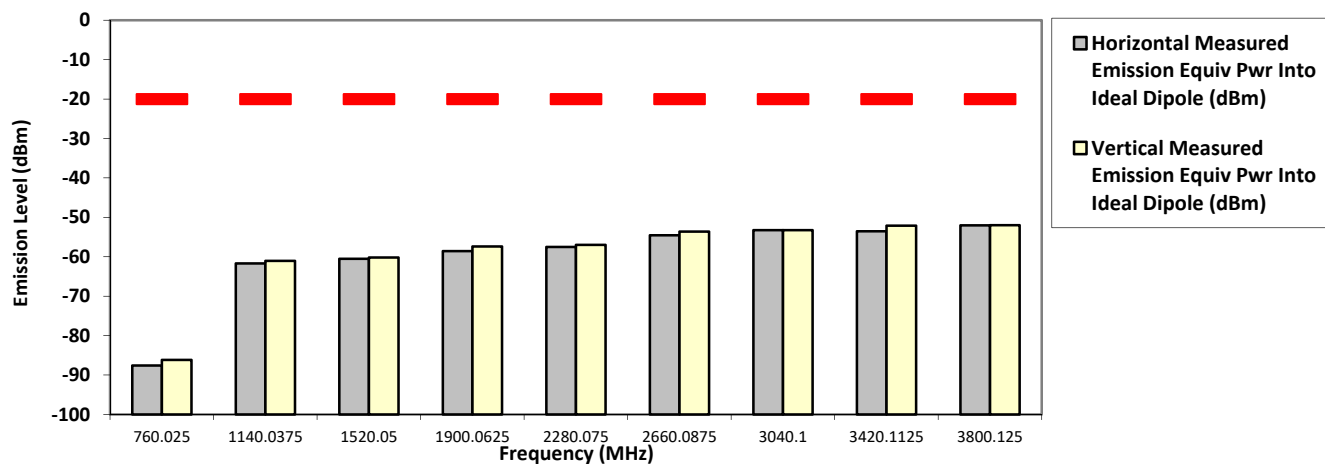
Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
380.012500 MHz **Test Mode: TX Digital C4FM** **110.000 Watt(s) /Max Power**
12.5 kHz

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
760.0250	-20.0000	-87.5987 **	-86.1881 **
1140.0375	-20.0000	-61.6899 **	-61.0683 **
1520.0500	-20.0000	-60.5025 **	-60.1786 **
1900.0625	-20.0000	-58.5902 **	-57.4124 **
2280.0750	-20.0000	-57.5040 **	-57.0023 **
2660.0875	-20.0000	-54.5620 **	-53.6175 **
3040.1000	-20.0000	-53.2571 **	-53.2737 **
3420.1125	-20.0000	-53.5494 **	-52.1316 **
3800.1250	-20.0000	-52.0486 **	-52.0123 **

RADIATED SPURIOUS EMISSIONS



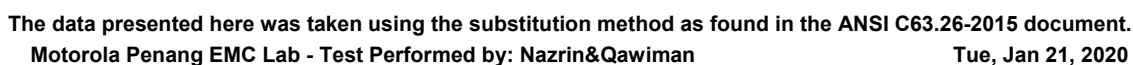
The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Tue, Jan 21, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

[illegible]

Remarks:	Passed Results	Marginal Results	Failed Results

[illegible]

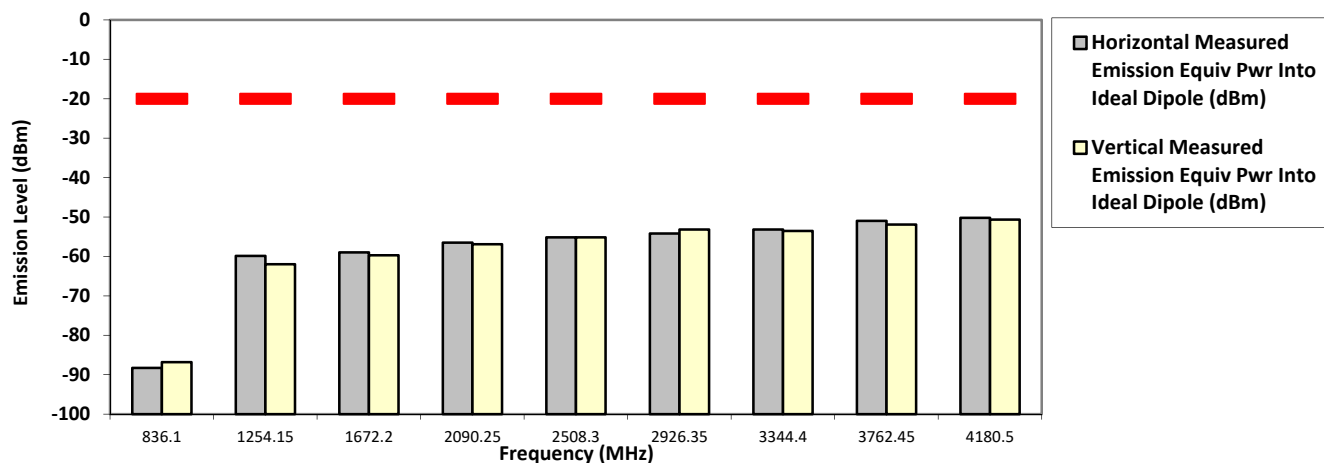
Remarks:	Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) S/N: 112CVX1806 SR:19587-EMC-00009
Battery Part No: NA Accy Part No: 3082933N20-C3
Test Mode: TX Digital C4FM
418.050000 MHz 12.5 kHz 2.000 Watt(s) /Low Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
836.1000	-20.0000	-88.2763 **	-86.8375 **
1254.1500	-20.0000	-59.8754 **	-61.9843 **
1672.2000	-20.0000	-58.9701 **	-59.6911 **
2090.2500	-20.0000	-56.4913 **	-56.9267 **
2508.3000	-20.0000	-55.1768 **	-55.1825 **
2926.3500	-20.0000	-54.1743 **	-53.1946 **
3344.4000	-20.0000	-53.1546 **	-53.5312 **
3762.4500	-20.0000	-50.9863 **	-51.8995 **
4180.5000	-20.0000	-50.2244 **	-50.6551 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Tue, Jan 21, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

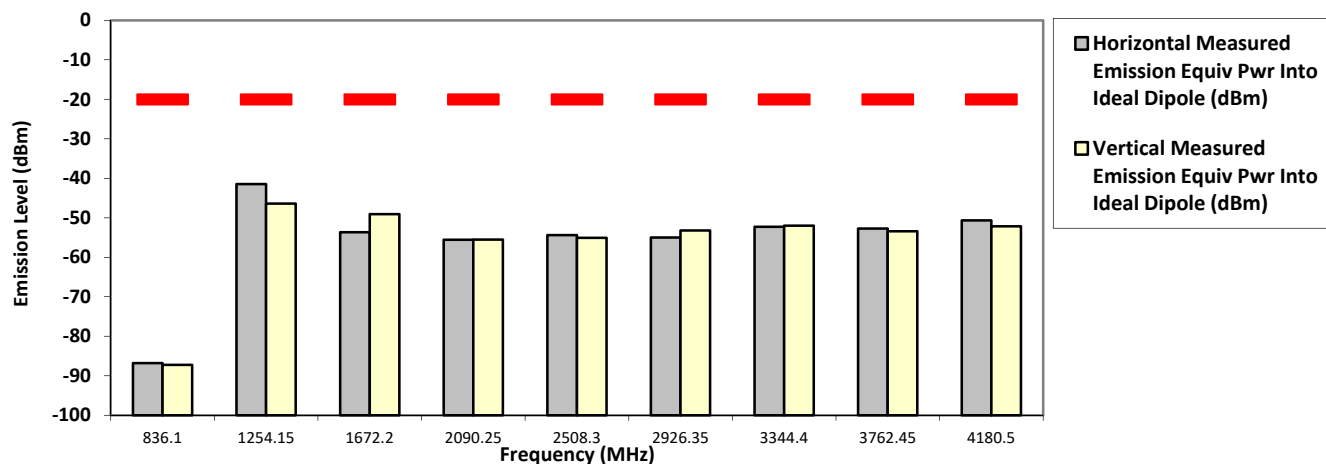
Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX Digital C4FM
418.050000 MHz **12.5 kHz** **110.000 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
836.1000	-20.0000	-86.7886 **	-87.2597 **
1254.1500	-20.0000	-41.4600 *	-46.4200 *
1672.2000	-20.0000	-53.6500 *	-49.0900 *
2090.2500	-20.0000	-55.5601 **	-55.5056 **
2508.3000	-20.0000	-54.4019 **	-55.0875 **
2926.3500	-20.0000	-54.9978 **	-53.2235 **
3344.4000	-20.0000	-52.2969 **	-51.9999 **
3762.4500	-20.0000	-52.7148 **	-53.3947 **
4180.5000	-20.0000	-50.6544 **	-52.1636 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Jan 19, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

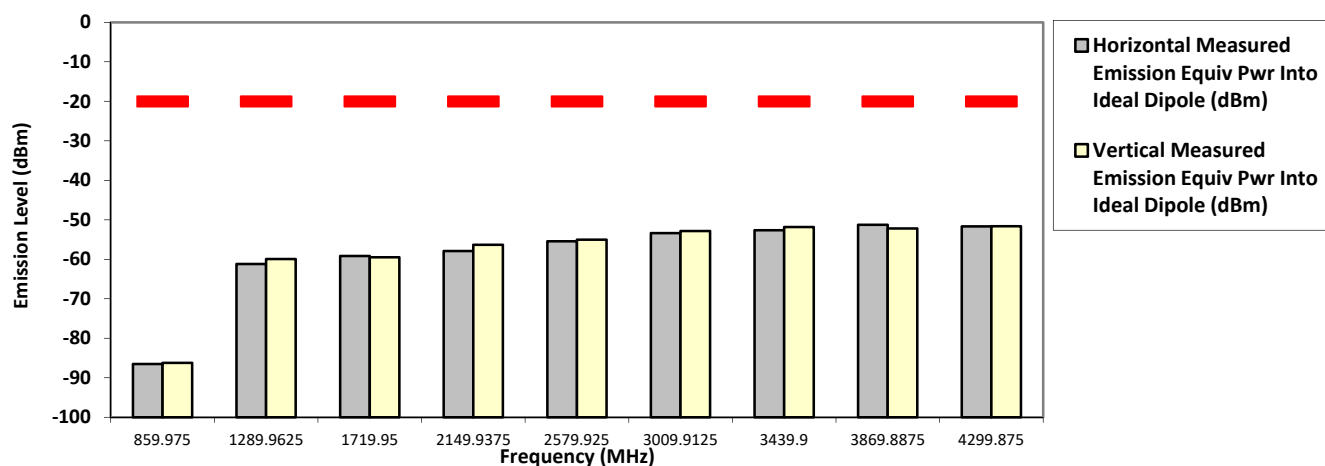
429.987500 MHz

12.5 kHz

2.000 Watt(s) /Low Power

[illegible]

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

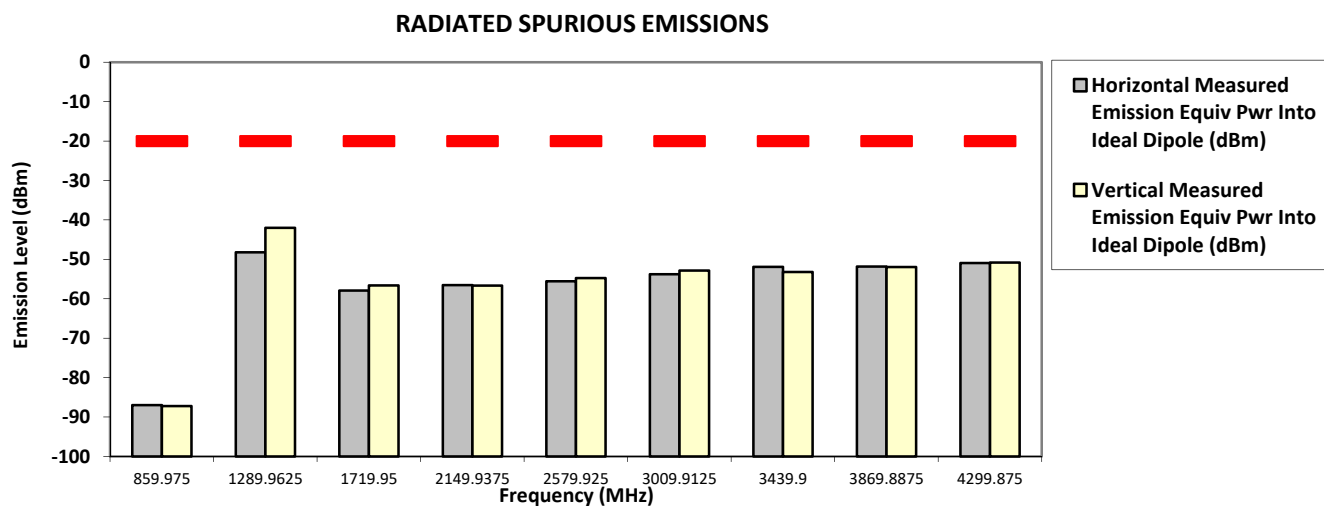
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX Digital C4FM
429.987500 MHz **12.5 kHz** **110.000 Watt(s) /Max Power**

[illegible]

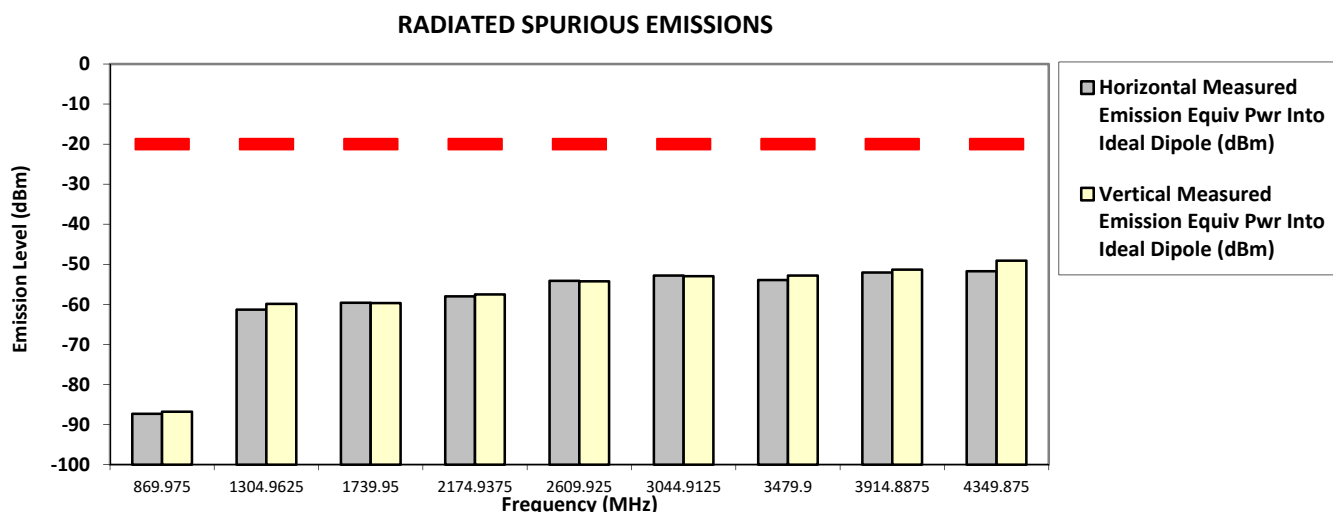
The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks:	Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission:		
Model Number: T7039A (T7039-UHFR1C)	S/N: 112CVX1806	SR:19587-EMC-00009
Battery Part No: NA	Accy Part No: 3082933N20-C3	
Test Mode: TX Digital C4FM		
434.987500 MHz	12.5 kHz	2.000 Watt(s) /Low Power

[illegible]

The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks:

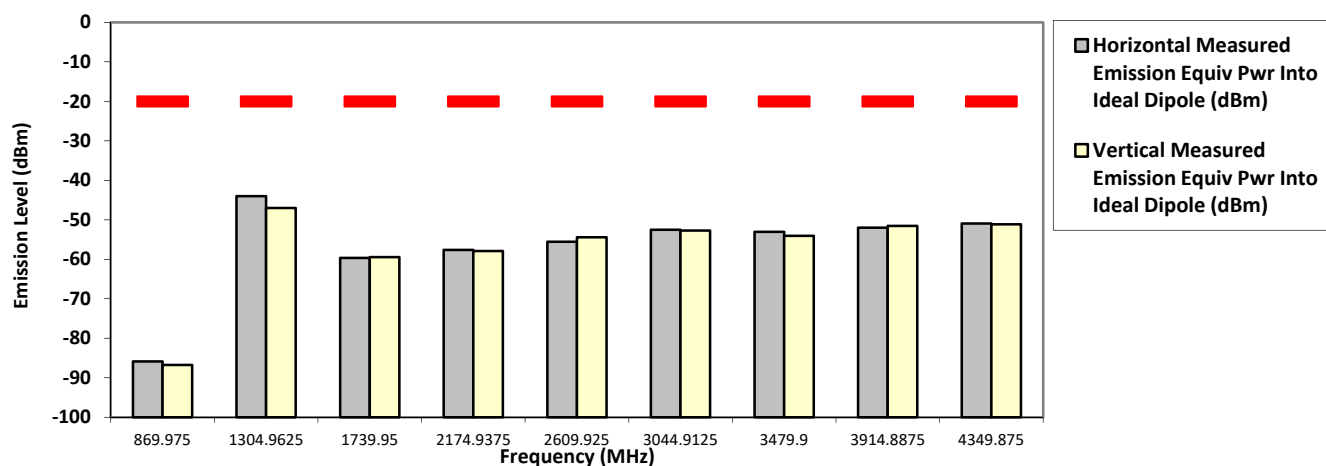
Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
434.987500 MHz **Test Mode: TX Digital C4FM** **110.000 Watt(s) /Max Power**
12.5 kHz

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
869.9750	-20.0000	-85.8810 **	-86.7761 **
1304.9625	-20.0000	-44.0100 *	-47.0300 *
1739.9500	-20.0000	-59.6483 **	-59.4712 **
2174.9375	-20.0000	-57.6264 **	-57.9247 **
2609.9250	-20.0000	-55.5574 **	-54.4263 **
3044.9125	-20.0000	-52.5119 **	-52.7201 **
3479.9000	-20.0000	-53.0608 **	-54.0521 **
3914.8875	-20.0000	-51.9829 **	-51.5566 **
4349.8750	-20.0000	-50.9457 **	-51.1578 **

RADIATED SPURIOUS EMISSIONS



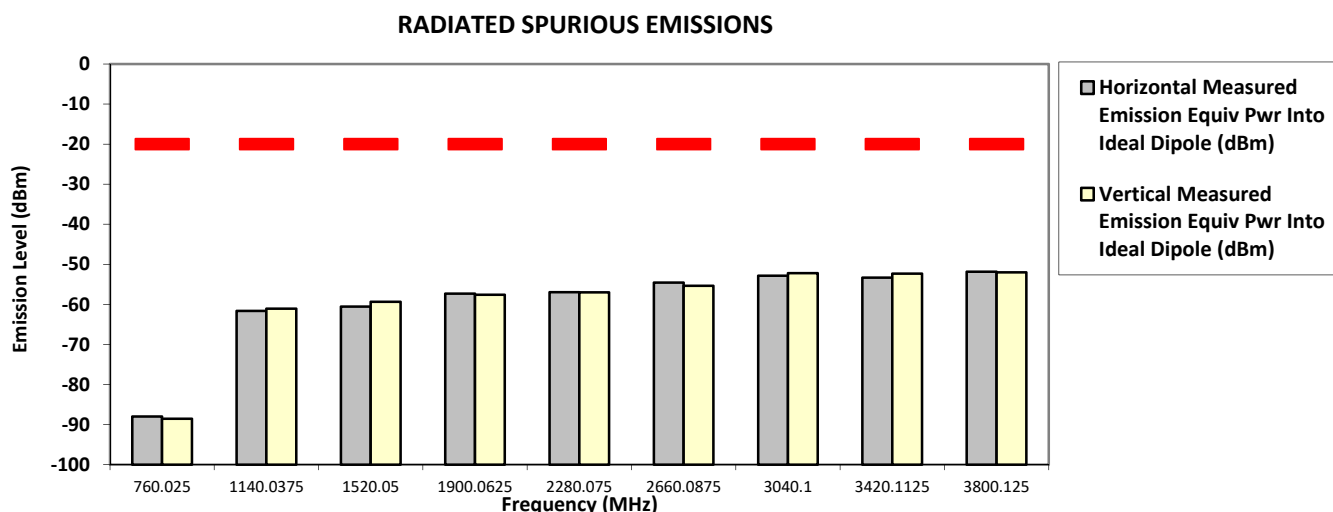
The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Jan 19, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission: Model Number: T7039A (T7039-UHFR1C) S/N: 112CVX1806 SR:19587-EMC-00009 Battery Part No: NA Accy Part No: 3082933N20-C3 Test Mode: TX Phase II (HDQPSK)		
380.012500 MHz	12.5 kHz	2.000 Watt(s) /Low Power

[illegible]

The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

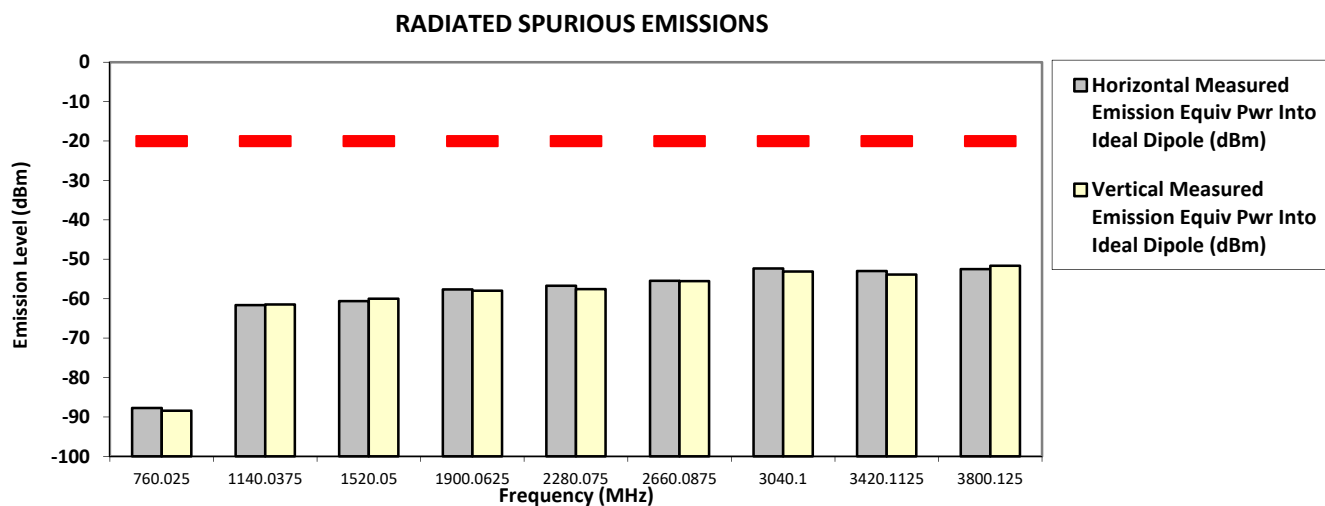
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX Phase II (HDQPSK)
380.012500 MHz **12.5 kHz** **110.000 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
760.0250	-20.0000	-87.7320 **	-88.4231 **
1140.0375	-20.0000	-61.6288 **	-61.4719 **
1520.0500	-20.0000	-60.6325 **	-60.0087 **
1900.0625	-20.0000	-57.6628 **	-57.9977 **
2280.0750	-20.0000	-56.7373 **	-57.5701 **
2660.0875	-20.0000	-55.4642 **	-55.5569 **
3040.1000	-20.0000	-52.3416 **	-53.1000 **
3420.1125	-20.0000	-53.0092 **	-53.8841 **
3800.1250	-20.0000	-52.4872 **	-51.6562 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Tue, Jan 21, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

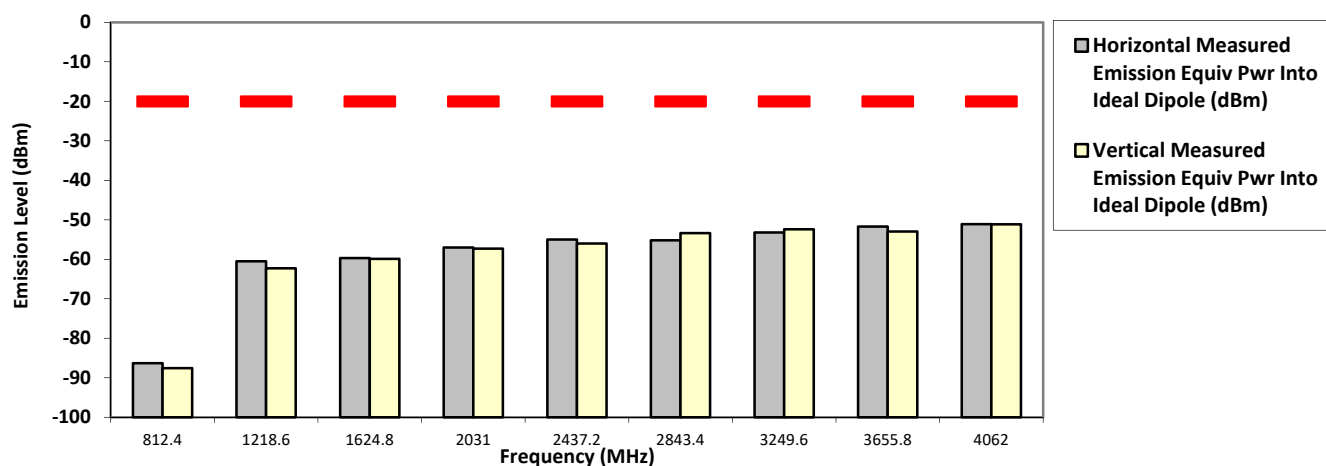
Remarks:

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX Phase II (HDQPSK)
406.200000 MHz **12.5 kHz** **2.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
812.4000	-20.0000	-86.3303 **	-87.5844 **
1218.6000	-20.0000	-60.4998 **	-62.2824 **
1624.8000	-20.0000	-59.6963 **	-59.9105 **
2031.0000	-20.0000	-57.0319 **	-57.3204 **
2437.2000	-20.0000	-54.9941 **	-55.9985 **
2843.4000	-20.0000	-55.1921 **	-53.3671 **
3249.6000	-20.0000	-53.2227 **	-52.3857 **
3655.8000	-20.0000	-51.6941 **	-52.9501 **
4062.0000	-20.0000	-51.1084 **	-51.1469 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Tue, Jan 21, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

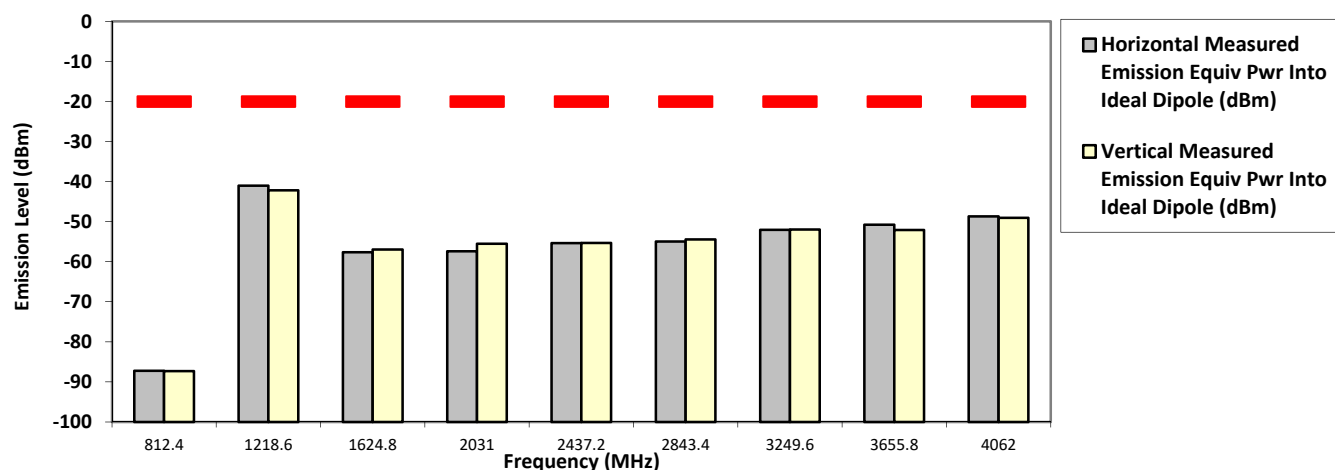
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: T7039A (T7039-UHFR1C) S/N: 112CVX1806 SR:19587-EMC-00009
Battery Part No: NA Accy Part No: 3082933N20-C3
Test Mode: TX Phase II (HDQPSK)
406.200000 MHz 12.5 kHz 110.000 Watt(s) /Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
812.4000	-20.0000	-87.2438 **	-87.3166 **
1218.6000	-20.0000	-41.0300 *	-42.1900 *
1624.8000	-20.0000	-57.6189 **	-56.9406 **
2031.0000	-20.0000	-57.3819 **	-55.5219 **
2437.2000	-20.0000	-55.3598 **	-55.3091 **
2843.4000	-20.0000	-54.9576 **	-54.4490 **
3249.6000	-20.0000	-52.0314 **	-51.9612 **
3655.8000	-20.0000	-50.7845 **	-52.0965 **
4062.0000	-20.0000	-48.6931 **	-49.0480 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Jan 19, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

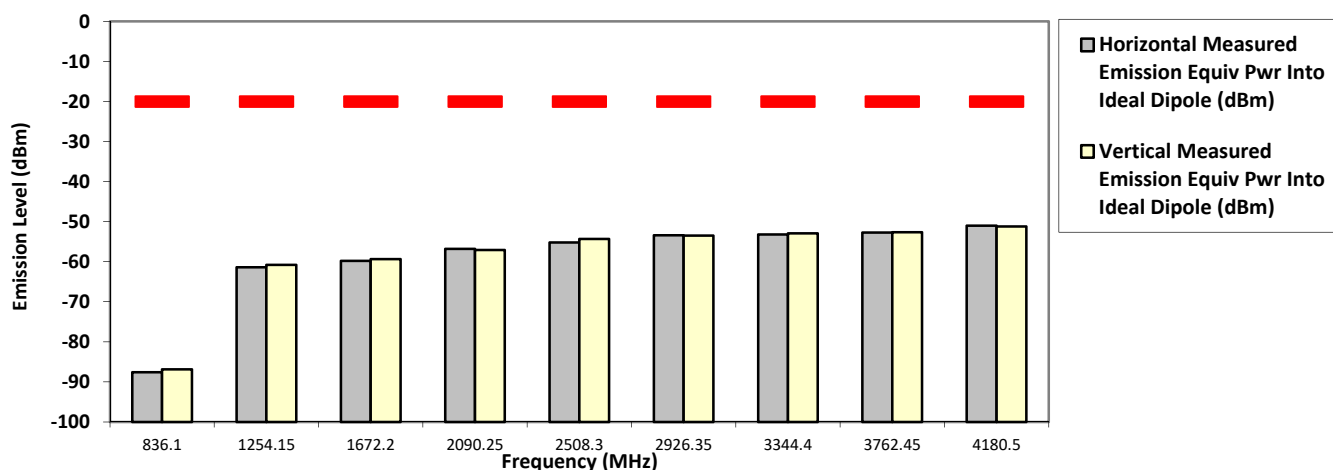
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX Phase II (HDQPSK)
418.050000 MHz **12.5 kHz** **2.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
836.1000	-20.0000	-87.5855 **	-86.8689 **
1254.1500	-20.0000	-61.4064 **	-60.8136 **
1672.2000	-20.0000	-59.7843 **	-59.3473 **
2090.2500	-20.0000	-56.8007 **	-57.0987 **
2508.3000	-20.0000	-55.2028 **	-54.3405 **
2926.3500	-20.0000	-53.4202 **	-53.4857 **
3344.4000	-20.0000	-53.1932 **	-52.9347 **
3762.4500	-20.0000	-52.7326 **	-52.6480 **
4180.5000	-20.0000	-51.0028 **	-51.2094 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Tue, Jan 21, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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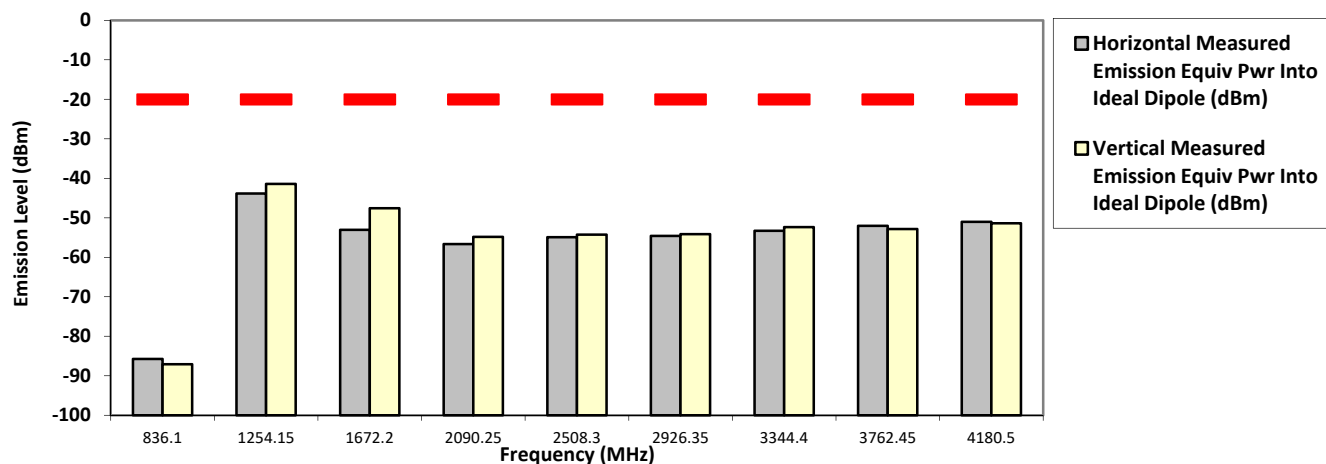
418.050000 MHz

12.5 kHz

110.000 Watt(s) /Max Power

[illegible]

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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SR:19587-EMC-00009

Accy Part No: 3082933N20-C3

2.000 Watt(s) /Low Power

[illegible]

Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)

Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)

Frequency (MHz)	Horizontal Measured (dBm)	Vertical Measured (dBm)
859.975	-88	-87
1289.9625	-62	-61
1719.95	-60	-60
2149.9375	-58	-58
2579.925	-56	-56
3009.9125	-55	-55
3439.9	-54	-54
3869.8875	-52	-52
4299.875	-51	-52

Sun, Jan 19, 2020

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

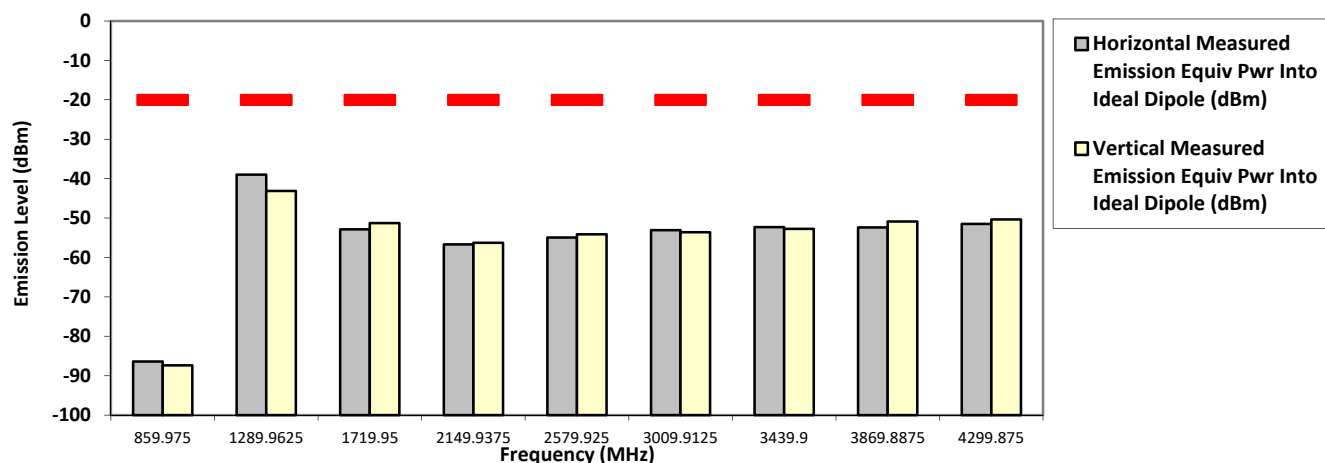
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: T7039A (T7039-UHFR1C) **S/N:** 112CVX1806 **SR:**19587-EMC-00009
Battery Part No: NA **Accy Part No:** 3082933N20-C3
Test Mode: TX Phase II (HDQPSK)
429.987500 MHz **12.5 kHz** **110.000 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
859.9750	-20.0000	-86.3879 **	-87.3922 **
1289.9625	-20.0000	-38.9800	-43.1200 *
1719.9500	-20.0000	-52.8600 *	-51.2700 *
2149.9375	-20.0000	-56.6742 **	-56.2840 **
2579.9250	-20.0000	-54.9541 **	-54.1395 **
3009.9125	-20.0000	-53.0871 **	-53.6120 **
3439.9000	-20.0000	-52.3110 **	-52.7490 **
3869.8875	-20.0000	-52.3823 **	-50.8827 **
4299.8750	-20.0000	-51.5020 **	-50.3410 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Jan 19, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks:

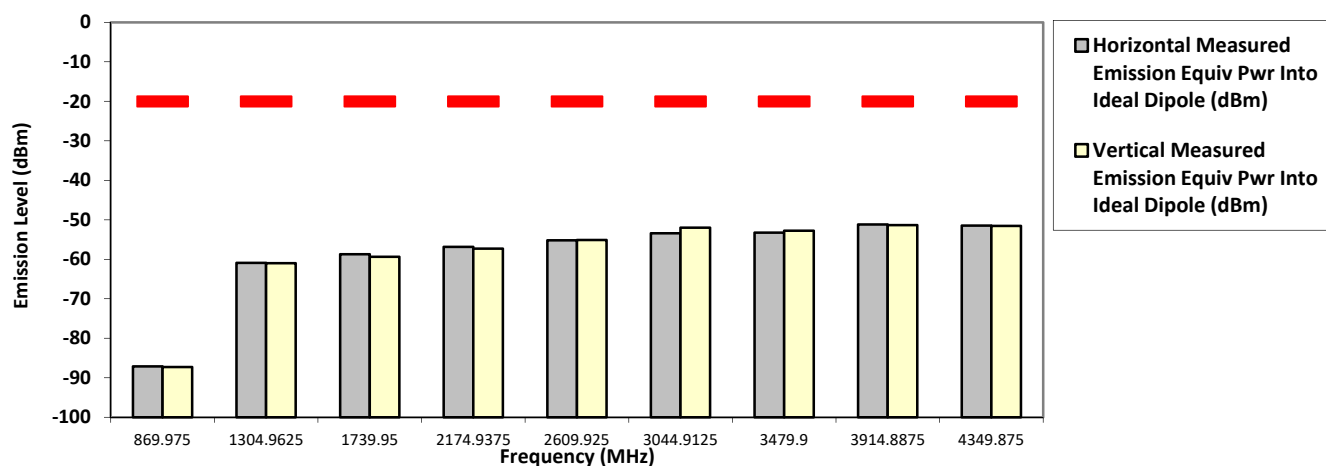
Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX Phase II (HDQPSK)
434.987500 MHz **12.5 kHz** **2.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
869.9750	-20.0000	-87.1226 **	-87.2833 **
1304.9625	-20.0000	-60.9162 **	-60.9943 **
1739.9500	-20.0000	-58.7266 **	-59.3643 **
2174.9375	-20.0000	-56.8447 **	-57.3026 **
2609.9250	-20.0000	-55.2111 **	-55.1111 **
3044.9125	-20.0000	-53.4015 **	-51.9969 **
3479.9000	-20.0000	-53.2564 **	-52.7804 **
3914.8875	-20.0000	-51.1801 **	-51.3332 **
4349.8750	-20.0000	-51.4822 **	-51.5604 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Jan 19, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

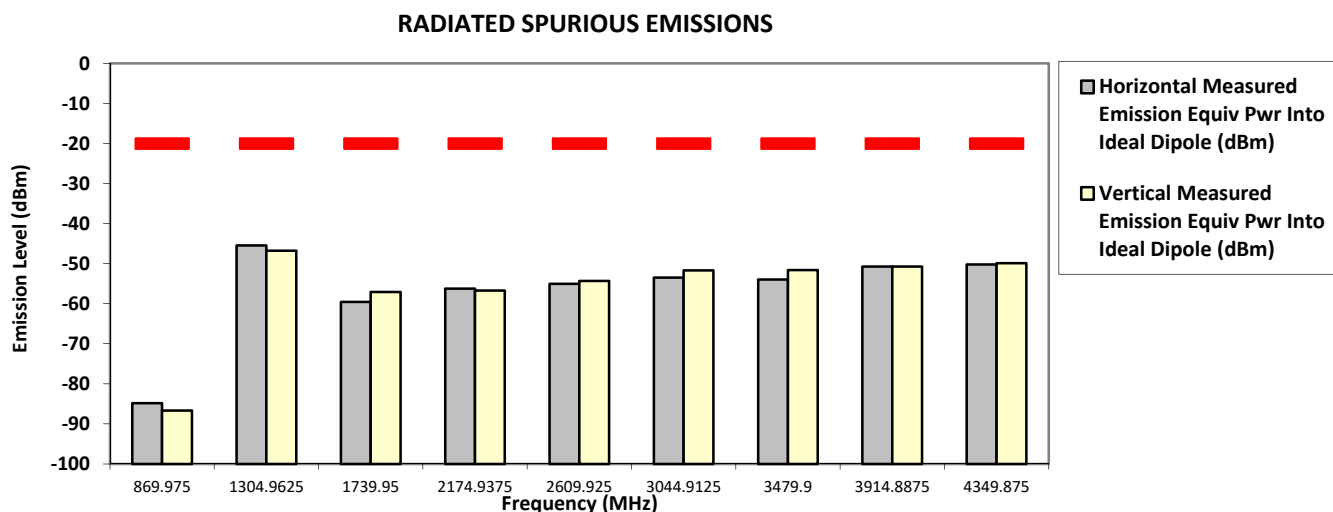
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX Phase II (HDQPSK)
434.987500 MHz **12.5 kHz** **110.000 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
869.9750	-20.0000	-84.8438 **	-86.6902 **
1304.9625	-20.0000	-45.4400 *	-46.7800 *
1739.9500	-20.0000	-59.5559 **	-57.0815 **
2174.9375	-20.0000	-56.2396 **	-56.7228 **
2609.9250	-20.0000	-55.0241 **	-54.3156 **
3044.9125	-20.0000	-53.4747 **	-51.6819 **
3479.9000	-20.0000	-53.9777 **	-51.6251 **
3914.8875	-20.0000	-50.7169 **	-50.7238 **
4349.8750	-20.0000	-50.1904 **	-49.8698 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Jan 19, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

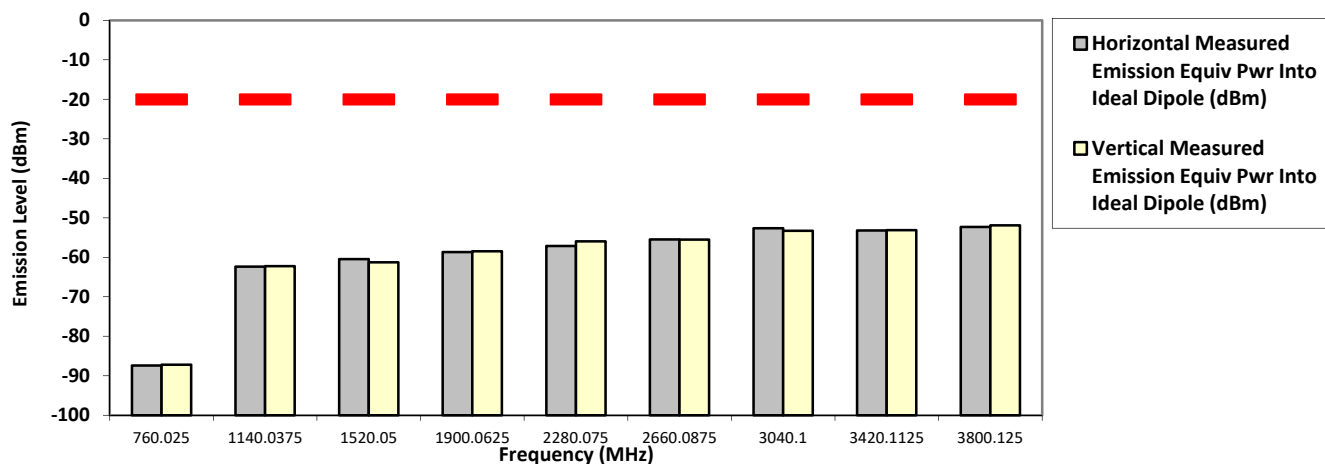
Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX LSM
380.012500 MHz **12.5 kHz** **2.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
760.0250	-20.0000	-87.4169 **	-87.2001 **
1140.0375	-20.0000	-62.3693 **	-62.2618 **
1520.0500	-20.0000	-60.4480 **	-61.2541 **
1900.0625	-20.0000	-58.6876 **	-58.4650 **
2280.0750	-20.0000	-57.1601 **	-55.9556 **
2660.0875	-20.0000	-55.4969 **	-55.5234 **
3040.1000	-20.0000	-52.6314 **	-53.2729 **
3420.1125	-20.0000	-53.2234 **	-53.1104 **
3800.1250	-20.0000	-52.3259 **	-51.9027 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Tue, Jan 21, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

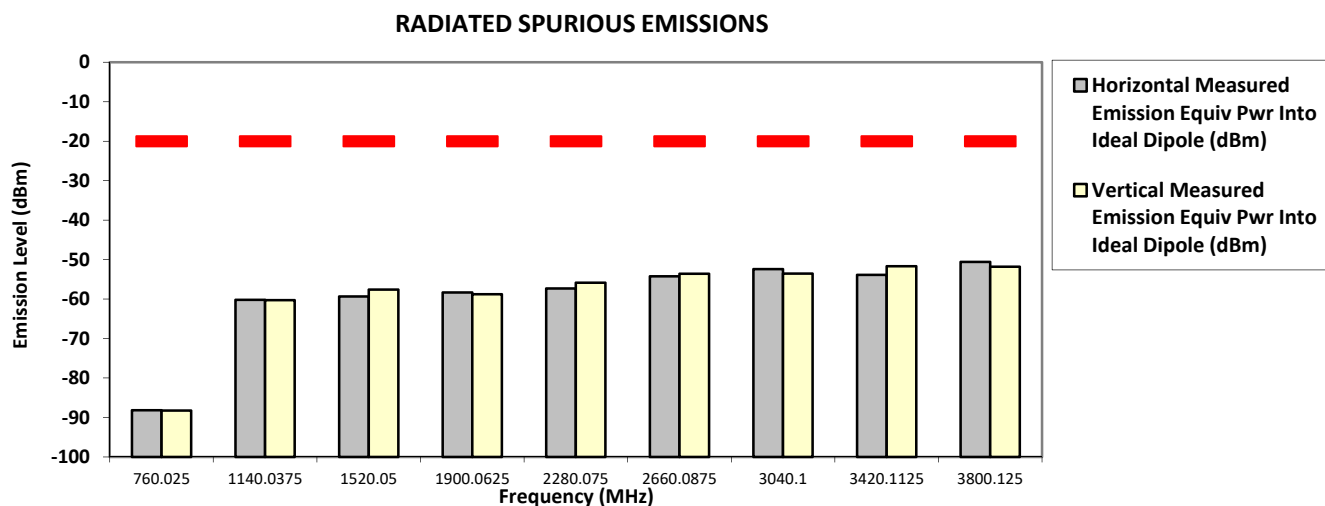
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX LSM
380.012500 MHz **12.5 kHz** **110.000 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
760.0250	-20.0000	-88.1855 **	-88.2538 **
1140.0375	-20.0000	-60.2038 **	-60.2940 **
1520.0500	-20.0000	-59.3586 **	-57.6050 **
1900.0625	-20.0000	-58.3486 **	-58.7715 **
2280.0750	-20.0000	-57.3134 **	-55.8535 **
2660.0875	-20.0000	-54.2395 **	-53.5979 **
3040.1000	-20.0000	-52.4279 **	-53.5372 **
3420.1125	-20.0000	-53.8585 **	-51.6850 **
3800.1250	-20.0000	-50.5739 **	-51.8185 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Tue, Jan 21, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

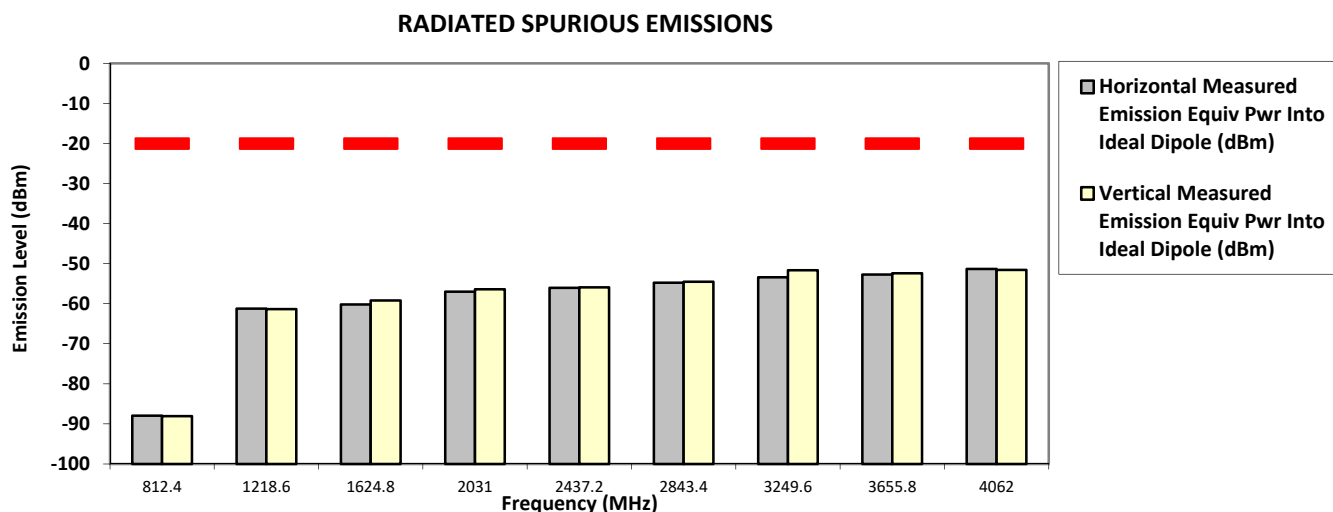
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX LSM
406.200000 MHz **12.5 kHz** **2.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
812.4000	-20.0000	-87.9390 **	-88.0728 **
1218.6000	-20.0000	-61.2397 **	-61.3663 **
1624.8000	-20.0000	-60.1785 **	-59.2119 **
2031.0000	-20.0000	-56.9995 **	-56.4038 **
2437.2000	-20.0000	-56.0507 **	-55.9353 **
2843.4000	-20.0000	-54.7585 **	-54.5129 **
3249.6000	-20.0000	-53.4092 **	-51.6273 **
3655.8000	-20.0000	-52.7429 **	-52.4136 **
4062.0000	-20.0000	-51.3398 **	-51.5707 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Tue, Jan 21, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
 *Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

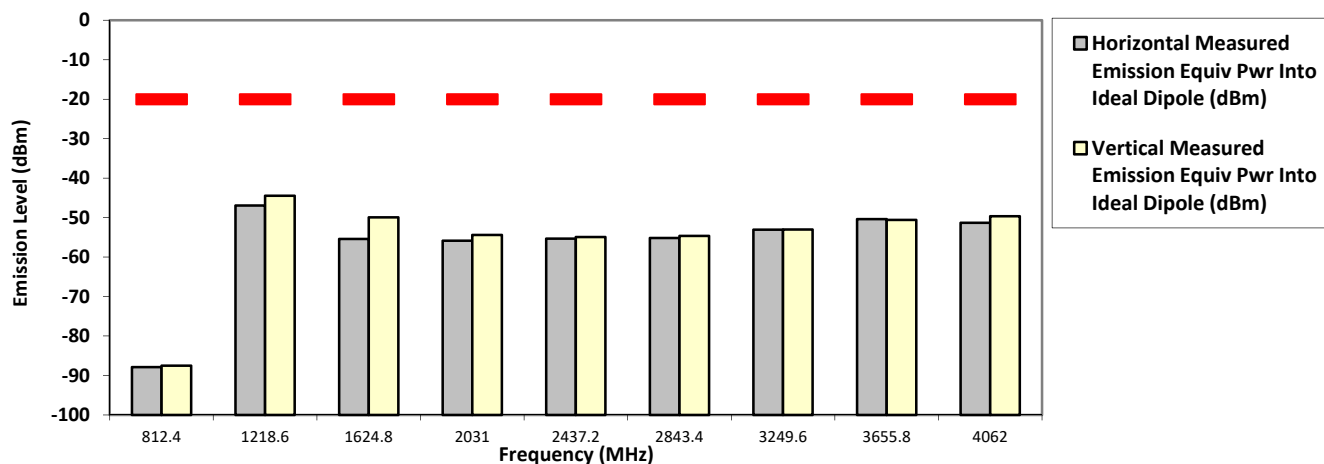
Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX LSM
406.200000 MHz **12.5 kHz** **110.000 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
812.4000	-20.0000	-87.9091 **	-87.5230 **
1218.6000	-20.0000	-46.9300 *	-44.4700 *
1624.8000	-20.0000	-55.4200 *	-49.9400 *
2031.0000	-20.0000	-55.8444 **	-54.3820 **
2437.2000	-20.0000	-55.3279 **	-54.9332 **
2843.4000	-20.0000	-55.1804 **	-54.6312 **
3249.6000	-20.0000	-53.0529 **	-53.0212 **
3655.8000	-20.0000	-50.4038 **	-50.6003 **
4062.0000	-20.0000	-51.3070 **	-49.6733 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Jan 19, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

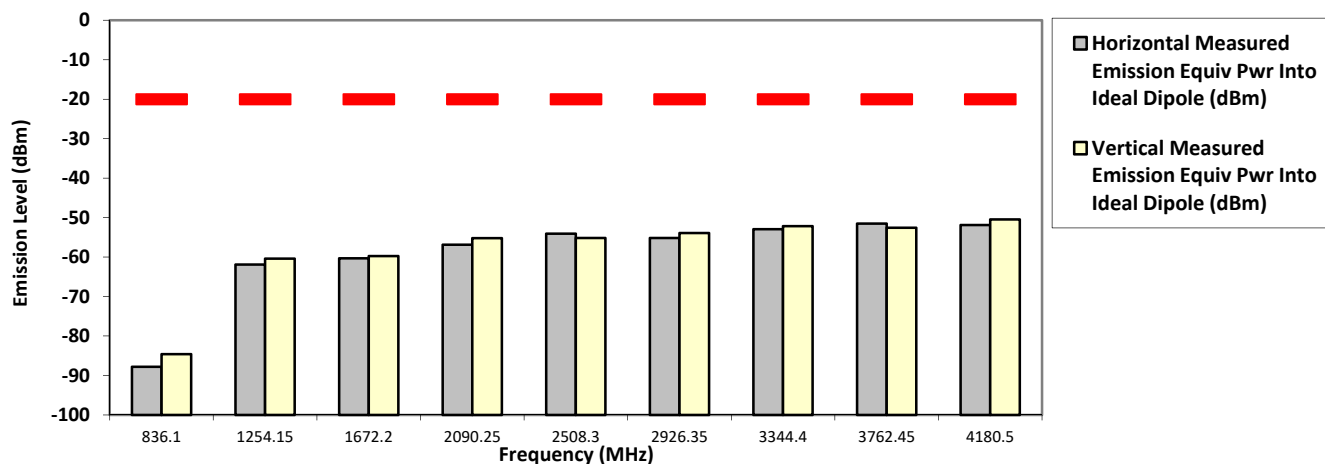
Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX LSM
418.050000 MHz **12.5 kHz** **2.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
836.1000	-20.0000	-87.8008 **	-84.5963 **
1254.1500	-20.0000	-61.8943 **	-60.3991 **
1672.2000	-20.0000	-60.3214 **	-59.7606 **
2090.2500	-20.0000	-56.8888 **	-55.2273 **
2508.3000	-20.0000	-54.0946 **	-55.1593 **
2926.3500	-20.0000	-55.1567 **	-53.9317 **
3344.4000	-20.0000	-52.9590 **	-52.1807 **
3762.4500	-20.0000	-51.5354 **	-52.5678 **
4180.5000	-20.0000	-51.8878 **	-50.4542 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Tue, Jan 21, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
 *Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.4 Hum(%RH): 69.8

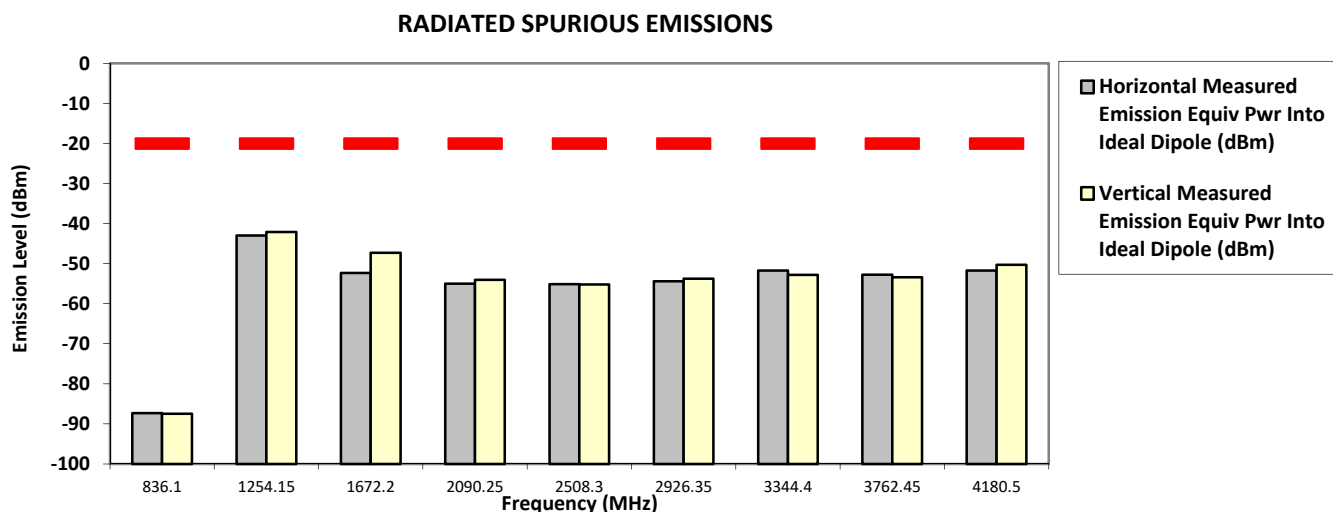
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX LSM
418.050000 MHz **12.5 kHz** **110.000 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
836.1000	-20.0000	-87.3157 **	-87.4737 **
1254.1500	-20.0000	-42.9600 *	-42.1000 *
1672.2000	-20.0000	-52.3300 *	-47.3000 *
2090.2500	-20.0000	-54.9847 **	-54.0527 **
2508.3000	-20.0000	-55.1125 **	-55.2013 **
2926.3500	-20.0000	-54.4190 **	-53.7512 **
3344.4000	-20.0000	-51.7419 **	-52.8080 **
3762.4500	-20.0000	-52.7492 **	-53.4143 **
4180.5000	-20.0000	-51.7221 **	-50.3023 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Jan 19, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks:

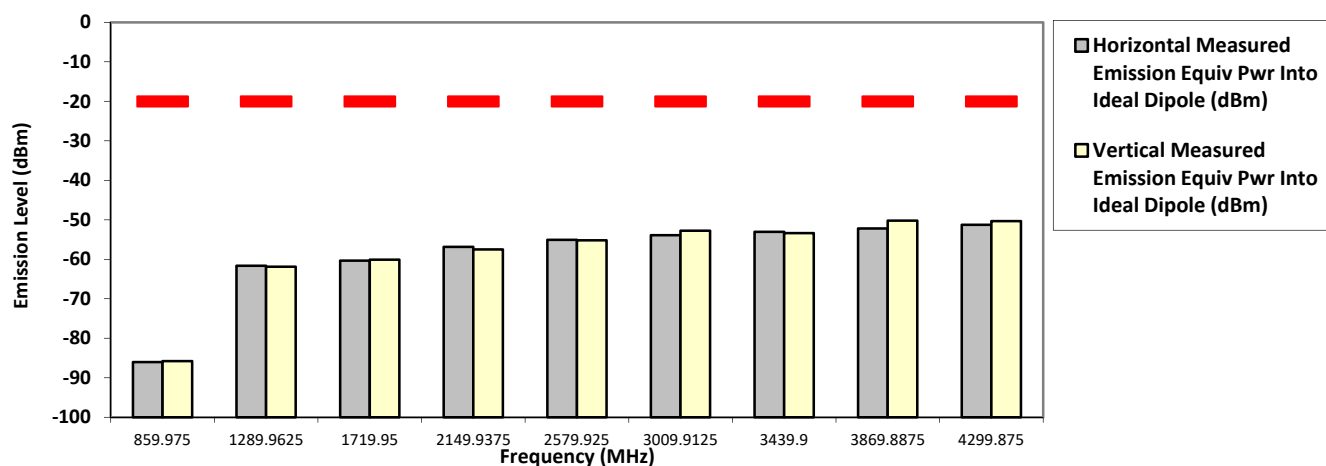
Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX LSM
429.987500 MHz **12.5 kHz** **2.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
859.9750	-20.0000	-86.0185 **	-85.7860 **
1289.9625	-20.0000	-61.6328 **	-61.8873 **
1719.9500	-20.0000	-60.3581 **	-60.0943 **
2149.9375	-20.0000	-56.8698 **	-57.5120 **
2579.9250	-20.0000	-55.0760 **	-55.1830 **
3009.9125	-20.0000	-53.8812 **	-52.7739 **
3439.9000	-20.0000	-53.0392 **	-53.3560 **
3869.8875	-20.0000	-52.2056 **	-50.2115 **
4299.8750	-20.0000	-51.2666 **	-50.3502 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Jan 19, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
 *Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

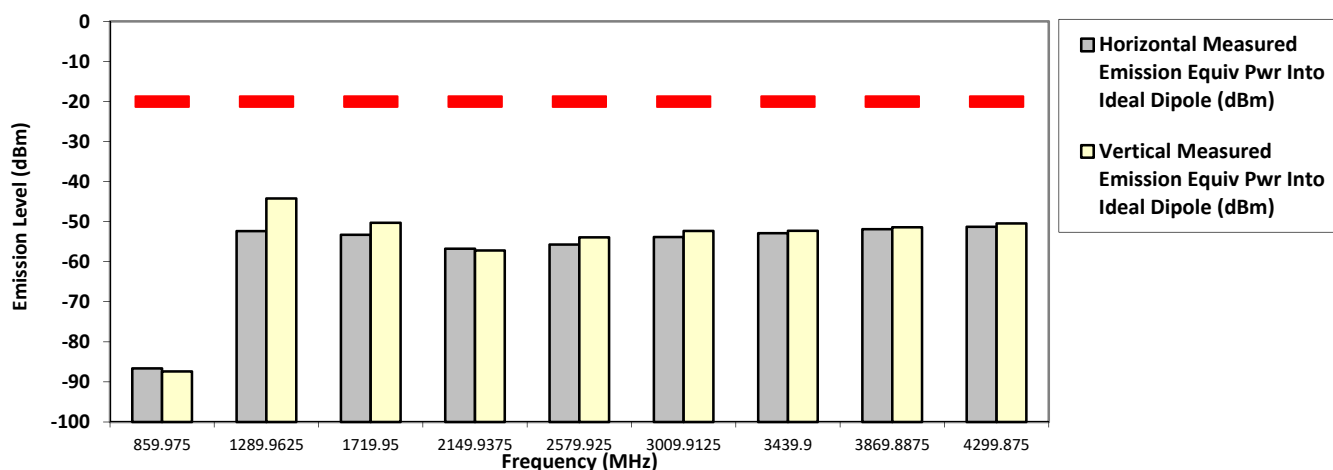
Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX LSM
429.987500 MHz **12.5 kHz** **110.000 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
859.9750	-20.0000	-86.6385 **	-87.4133 **
1289.9625	-20.0000	-52.3700 *	-44.2000 *
1719.9500	-20.0000	-53.2700 *	-50.2900 *
2149.9375	-20.0000	-56.7479 **	-57.2051 **
2579.9250	-20.0000	-55.7171 **	-53.9208 **
3009.9125	-20.0000	-53.8462 **	-52.3121 **
3439.9000	-20.0000	-52.8715 **	-52.2865 **
3869.8875	-20.0000	-51.8703 **	-51.4119 **
4299.8750	-20.0000	-51.3073 **	-50.4373 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Jan 19, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

[illegible]

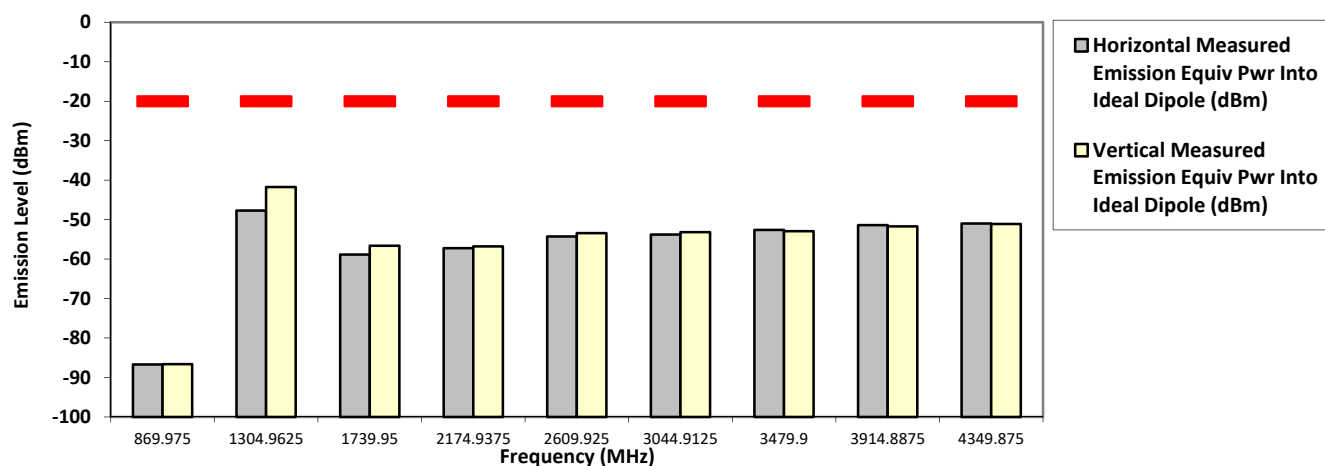
Remarks:	Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX LSM
434.987500 MHz **12.5 kHz** **110.000 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
869.9750	-20.0000	-86.7010 **	-86.6255 **
1304.9625	-20.0000	-47.6900 *	-41.7400 *
1739.9500	-20.0000	-58.8715 **	-56.6347 **
2174.9375	-20.0000	-57.2270 **	-56.7908 **
2609.9250	-20.0000	-54.2782 **	-53.4160 **
3044.9125	-20.0000	-53.7998 **	-53.1973 **
3479.9000	-20.0000	-52.6079 **	-52.9579 **
3914.8875	-20.0000	-51.4141 **	-51.7266 **
4349.8750	-20.0000	-50.9958 **	-51.1006 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Jan 19, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

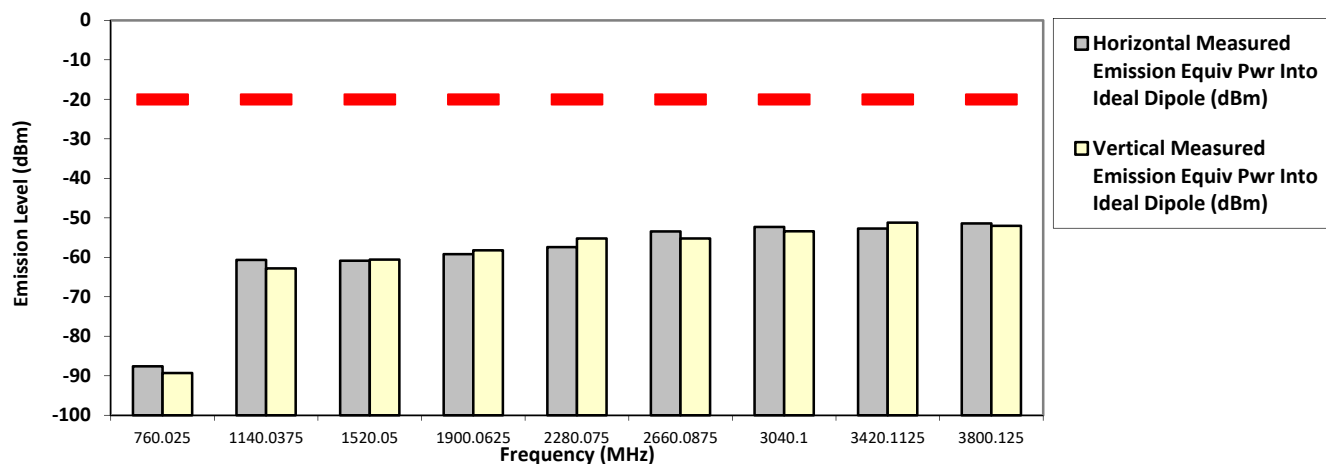
Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX FSK
380.012500 MHz **12.5 kHz** **2.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
760.0250	-20.0000	-87.6088 **	-89.3304 **
1140.0375	-20.0000	-60.6626 **	-62.8271 **
1520.0500	-20.0000	-60.8764 **	-60.5952 **
1900.0625	-20.0000	-59.1967 **	-58.2237 **
2280.0750	-20.0000	-57.4186 **	-55.2338 **
2660.0875	-20.0000	-53.4665 **	-55.2180 **
3040.1000	-20.0000	-52.3144 **	-53.4028 **
3420.1125	-20.0000	-52.7077 **	-51.2320 **
3800.1250	-20.0000	-51.4446 **	-52.0186 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Tue, Jan 21, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

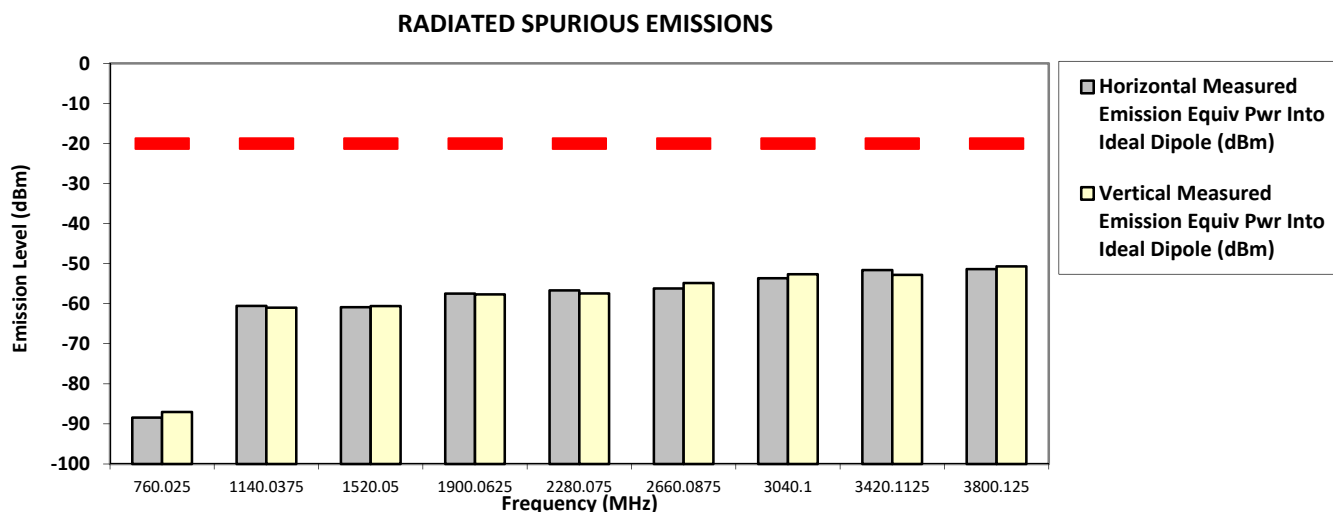
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX FSK
380.012500 MHz **12.5 kHz** **110.000 Watt(s) /Max Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
760.0250	-20.0000	-88.4298 **	-87.0424 **
1140.0375	-20.0000	-60.5389 **	-60.9848 **
1520.0500	-20.0000	-60.8700 **	-60.6113 **
1900.0625	-20.0000	-57.4686 **	-57.6741 **
2280.0750	-20.0000	-56.6855 **	-57.4306 **
2660.0875	-20.0000	-56.2061 **	-54.8311 **
3040.1000	-20.0000	-53.6550 **	-52.6466 **
3420.1125	-20.0000	-51.6104 **	-52.8183 **
3800.1250	-20.0000	-51.3841 **	-50.6813 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Tue, Jan 21, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

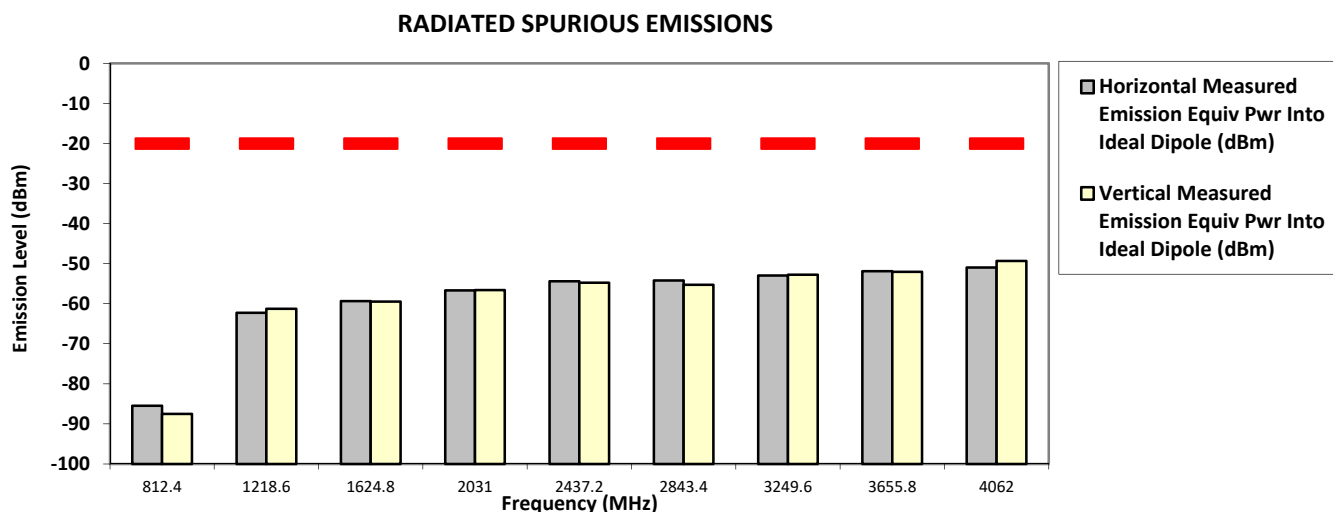
System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX FSK
406.200000 MHz **12.5 kHz** **2.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
812.4000	-20.0000	-85.4979 **	-87.5062 **
1218.6000	-20.0000	-62.2698 **	-61.2723 **
1624.8000	-20.0000	-59.3630 **	-59.4814 **
2031.0000	-20.0000	-56.6990 **	-56.6096 **
2437.2000	-20.0000	-54.3880 **	-54.7723 **
2843.4000	-20.0000	-54.2037 **	-55.2878 **
3249.6000	-20.0000	-52.9802 **	-52.7745 **
3655.8000	-20.0000	-51.8781 **	-52.0337 **
4062.0000	-20.0000	-50.9716 **	-49.3437 **

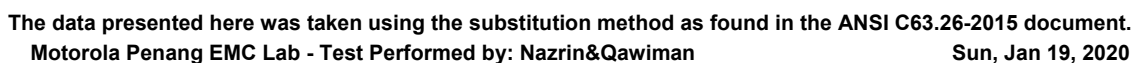


The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Tue, Jan 21, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
 *Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

[illegible]

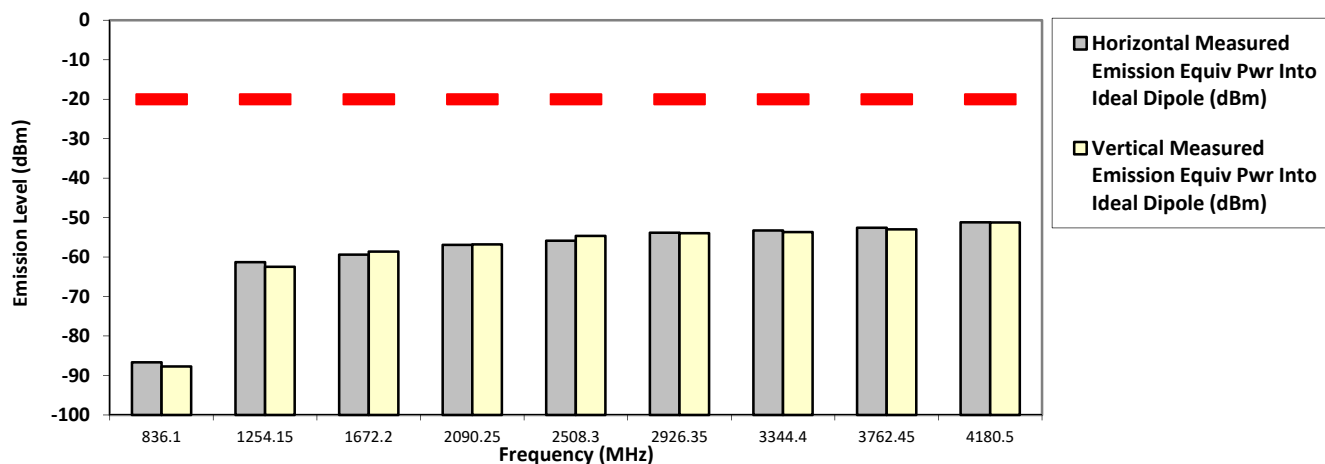
Remarks:	Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX FSK
418.050000 MHz **12.5 kHz** **2.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
836.1000	-20.0000	-86.6763 **	-87.7346 **
1254.1500	-20.0000	-61.2846 **	-62.4511 **
1672.2000	-20.0000	-59.3903 **	-58.6327 **
2090.2500	-20.0000	-56.9312 **	-56.8063 **
2508.3000	-20.0000	-55.8639 **	-54.6245 **
2926.3500	-20.0000	-53.8398 **	-53.9547 **
3344.4000	-20.0000	-53.2812 **	-53.6547 **
3762.4500	-20.0000	-52.5763 **	-52.9911 **
4180.5000	-20.0000	-51.1906 **	-51.2361 **

RADIATED SPURIOUS EMISSIONS

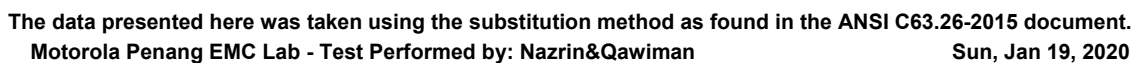


The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Tue, Jan 21, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

[illegible]

System MU: 4.03 dB

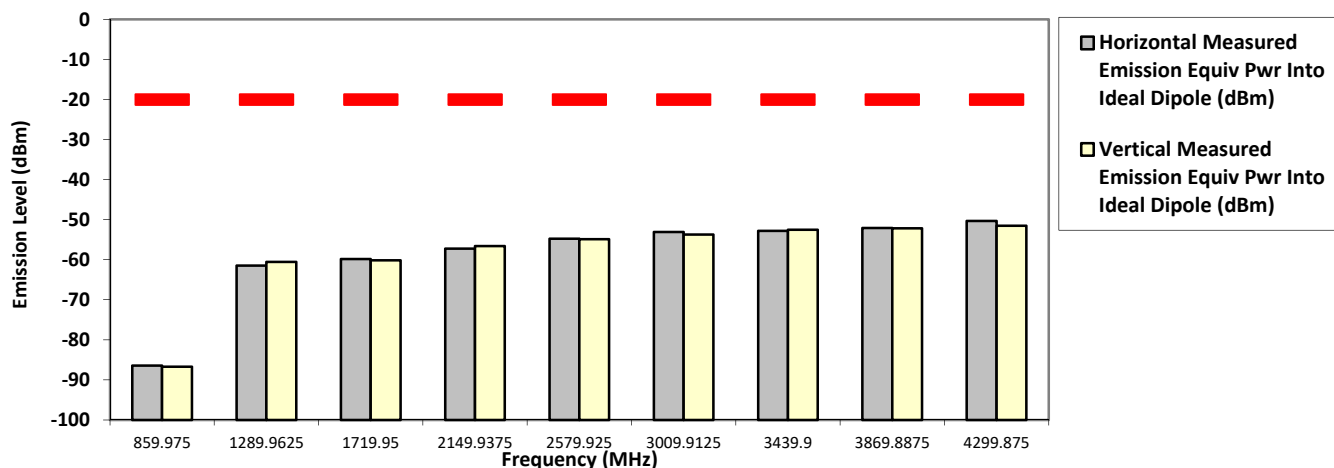
Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX FSK
429.987500 MHz **12.5 kHz** **2.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
859.9750	-20.0000	-86.4422 **	-86.7041 **
1289.9625	-20.0000	-61.4926 **	-60.5728 **
1719.9500	-20.0000	-59.8409 **	-60.1497 **
2149.9375	-20.0000	-57.2289 **	-56.6101 **
2579.9250	-20.0000	-54.7448 **	-54.8944 **
3009.9125	-20.0000	-53.1017 **	-53.7120 **
3439.9000	-20.0000	-52.8208 **	-52.5231 **
3869.8875	-20.0000	-52.0768 **	-52.1848 **
4299.8750	-20.0000	-50.3329 **	-51.5259 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Jan 19, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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[illegible]

The chart displays the emission level in dBm across various frequencies in MHz. The y-axis ranges from -100 to 0 dBm, and the x-axis shows frequencies from 859.975 to 4299.875 MHz. A red dashed line is positioned at -20 dBm. The legend indicates that grey bars represent 'Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)' and yellow bars represent 'Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)'.

Frequency (MHz)	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
859.975	-87	-86
1289.9625	-41	-41
1719.95	-59	-55
2149.9375	-58	-57
2579.925	-55	-55
3009.9125	-53	-53
3439.9	-53	-53
3869.8875	-51	-52
4299.875	-51	-51

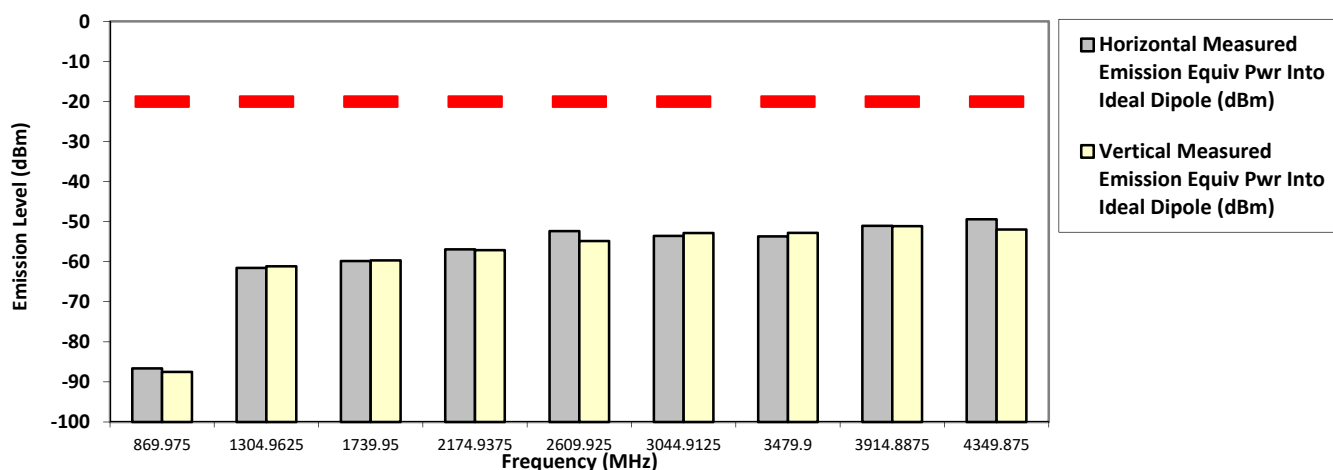
Remarks:	Passed Results	Marginal Results	Failed Results

SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00009**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX FSK
434.987500 MHz **12.5 kHz** **2.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
869.9750	-20.0000	-86.6427 **	-87.5288 **
1304.9625	-20.0000	-61.5671 **	-61.1543 **
1739.9500	-20.0000	-59.8234 **	-59.6585 **
2174.9375	-20.0000	-56.9012 **	-57.1059 **
2609.9250	-20.0000	-52.3668 **	-54.8540 **
3044.9125	-20.0000	-53.5478 **	-52.8587 **
3479.9000	-20.0000	-53.7014 **	-52.7957 **
3914.8875	-20.0000	-51.0636 **	-51.1194 **
4349.8750	-20.0000	-49.4062 **	-51.9496 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sun, Jan 19, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.4 Hum(%RH): 69.8

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

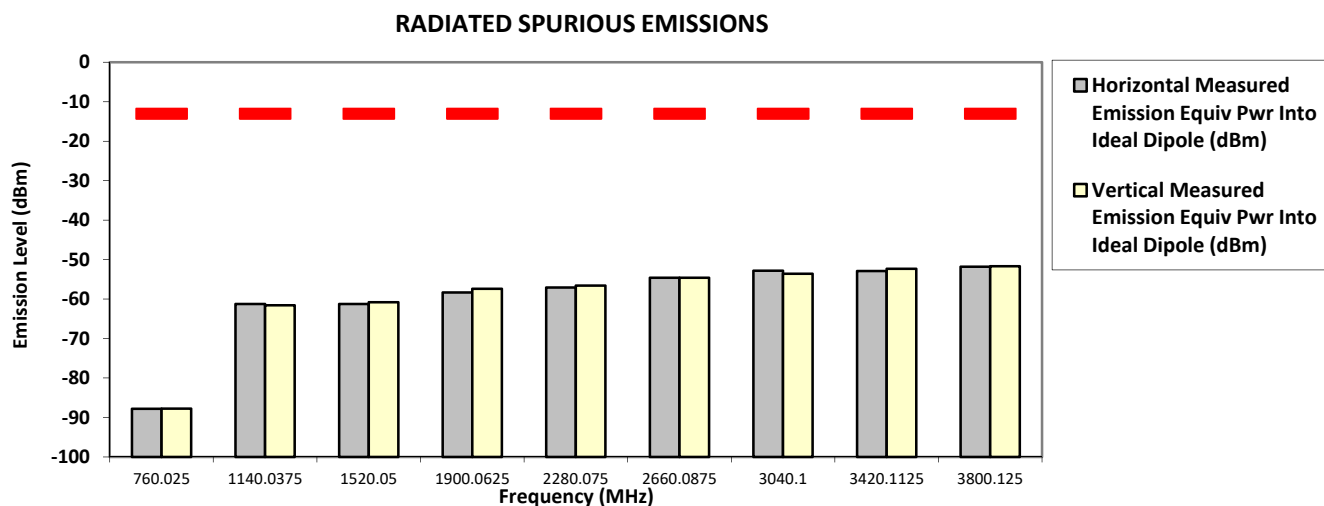
[illegible]

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00019**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
Test Mode: TX FSK
380.012500 MHz **25 kHz** **2.000 Watt(s) /Low Power**

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
760.0250	-13.0000	-87.8227 **	-87.7865 **
1140.0375	-13.0000	-61.2719 **	-61.5634 **
1520.0500	-13.0000	-61.2674 **	-60.7972 **
1900.0625	-13.0000	-58.3258 **	-57.3997 **
2280.0750	-13.0000	-57.0839 **	-56.5927 **
2660.0875	-13.0000	-54.5875 **	-54.6097 **
3040.1000	-13.0000	-52.7994 **	-53.5832 **
3420.1125	-13.0000	-52.8900 **	-52.3360 **
3800.1250	-13.0000	-51.8157 **	-51.6970 **



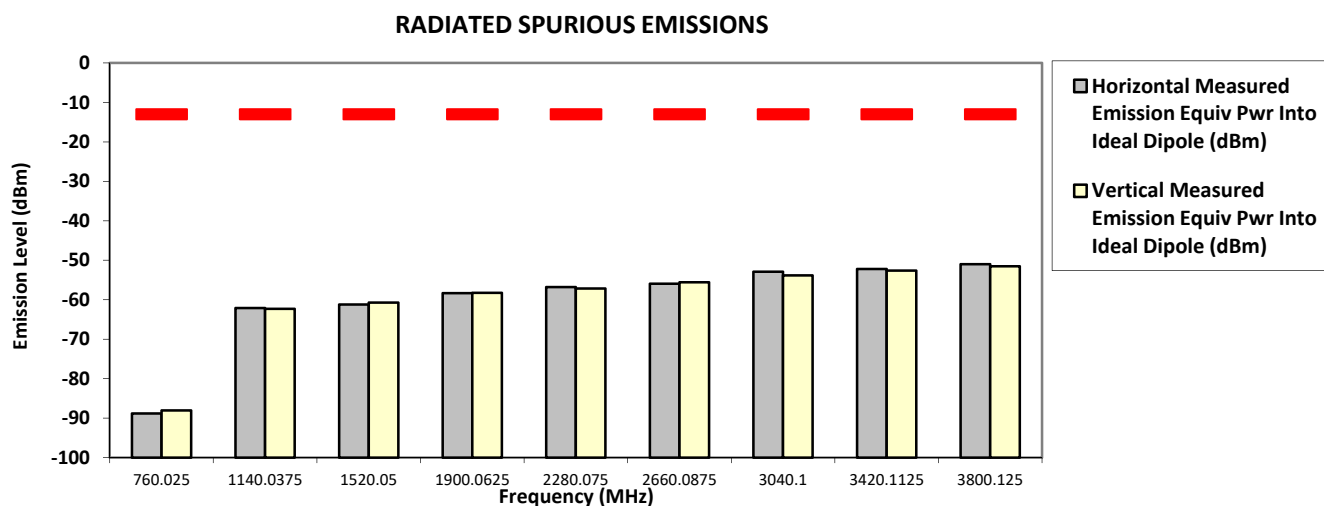
The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sat, Jan 25, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
 *Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.6 Hum(%RH): 69.7

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: T7039A (T7039-UHFR1C) **S/N:** 112CVX1806 **SR:**19587-EMC-00019
Battery Part No: NA **Accy Part No:** 3082933N20-C3
Test Mode: TX FSK
380.012500 MHz **25 kHz** **110.000 Watt(s) /Max Power**

[illegible]

The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.6 Hum(%RH): 69.7

System MU: 4.03 dB

Remarks:

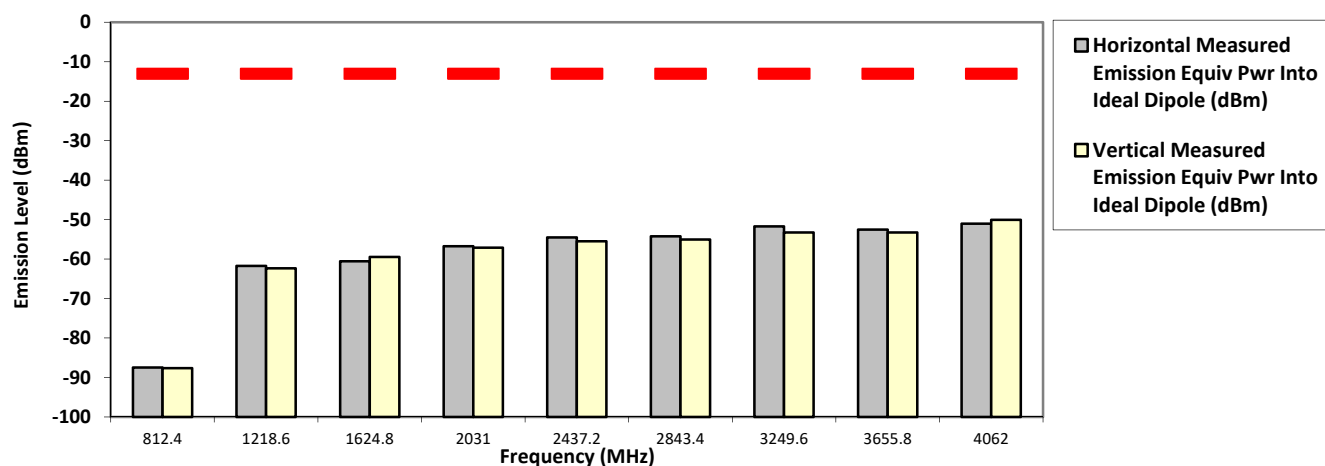
Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00019**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
406.200000 MHz **Test Mode: TX FSK** **2.000 Watt(s) /Low Power**
25 kHz

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
812.4000	-13.0000	-87.5051 **	-87.6345 **
1218.6000	-13.0000	-61.7474 **	-62.3493 **
1624.8000	-13.0000	-60.5533 **	-59.4687 **
2031.0000	-13.0000	-56.7633 **	-57.1147 **
2437.2000	-13.0000	-54.5269 **	-55.4860 **
2843.4000	-13.0000	-54.2535 **	-55.0462 **
3249.6000	-13.0000	-51.7362 **	-53.2593 **
3655.8000	-13.0000	-52.5339 **	-53.2616 **
4062.0000	-13.0000	-51.0476 **	-50.0776 **

RADIATED SPURIOUS EMISSIONS



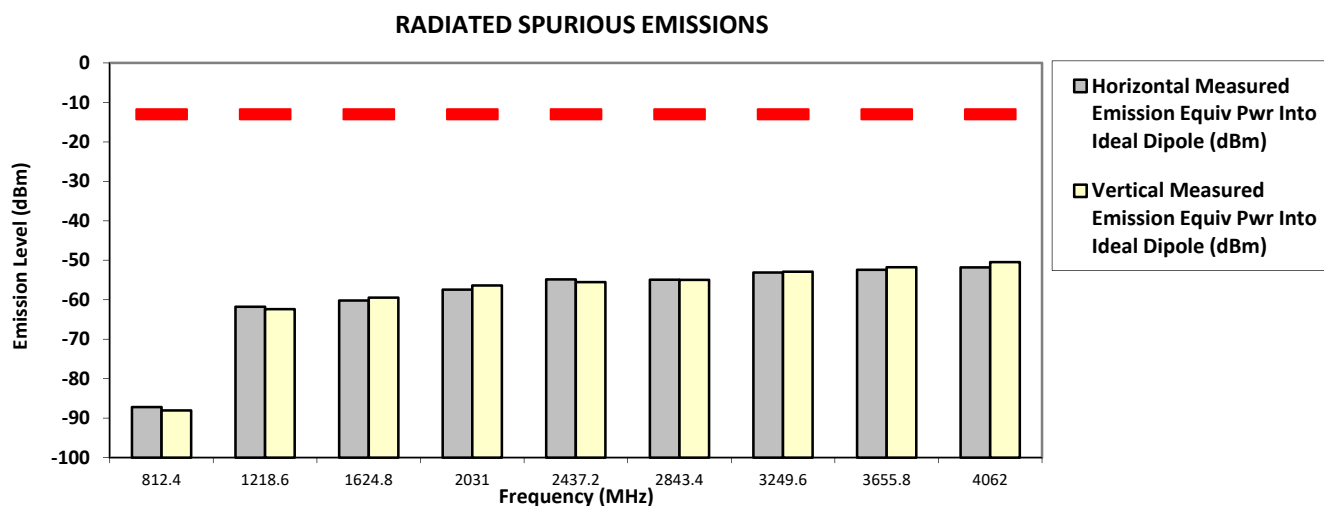
The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sat, Jan 25, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
 *Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.6 Hum(%RH): 69.7

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: T7039A (T7039-UHFR1C) **S/N:** 112CVX1806 **SR:**19587-EMC-00019
Battery Part No: NA **Accy Part No:** 3082933N20-C3
Test Mode: TX FSK
406.200000 MHz **25 kHz** **110.000 Watt(s) /Max Power**

[illegible]

The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.6 Hum(%RH): 69.7

System MU: 4.03 dB

Remarks:

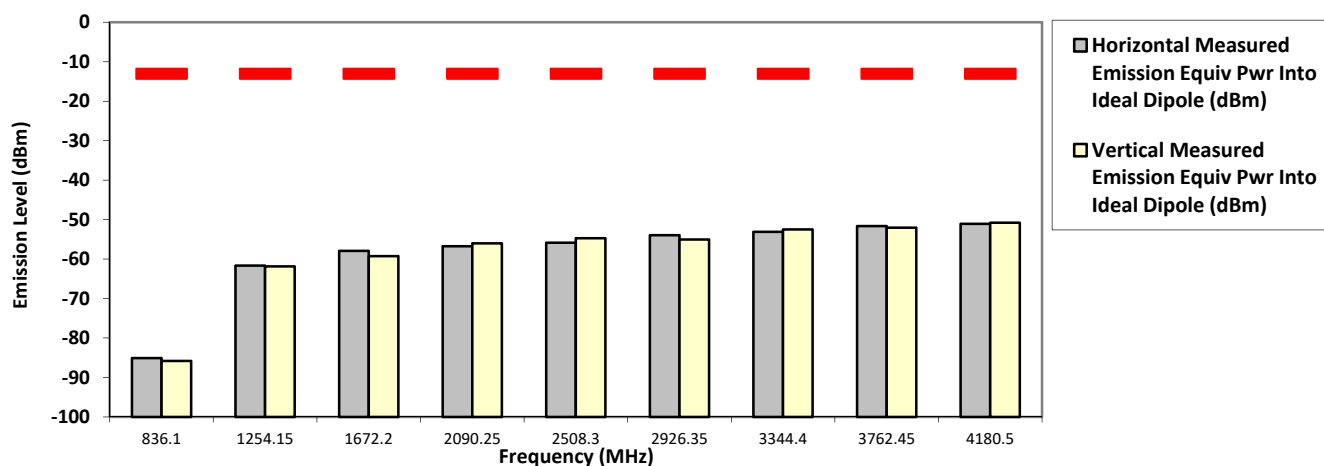
Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00019**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
418.050000 MHz **Test Mode: TX FSK** **2.000 Watt(s) /Low Power**
25 kHz

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
836.1000	-13.0000	-85.0990 **	-85.8068 **
1254.1500	-13.0000	-61.6516 **	-61.8536 **
1672.2000	-13.0000	-57.9242 **	-59.2541 **
2090.2500	-13.0000	-56.7667 **	-56.0165 **
2508.3000	-13.0000	-55.8711 **	-54.7208 **
2926.3500	-13.0000	-53.9622 **	-55.0440 **
3344.4000	-13.0000	-53.1163 **	-52.4995 **
3762.4500	-13.0000	-51.6462 **	-52.0409 **
4180.5000	-13.0000	-51.0901 **	-50.8113 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sat, Jan 25, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
 *Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.6 Hum(%RH): 69.7

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SR:19587-EMC-00019

Accy Part No: 3082933N20-C3

110.000 Watt(s) /Max Power

[illegible]

Frequency (MHz)	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
836.1	-87	-87
1254.15	-62	-61
1672.2	-60	-59
2090.25	-58	-57
2508.3	-55	-55
2926.35	-55	-54
3344.4	-53	-52
3762.45	-53	-53
4180.5	-51	-52

Sat, Jan 25, 2020

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.6 Hum(%RH): 69.7

Remarks:

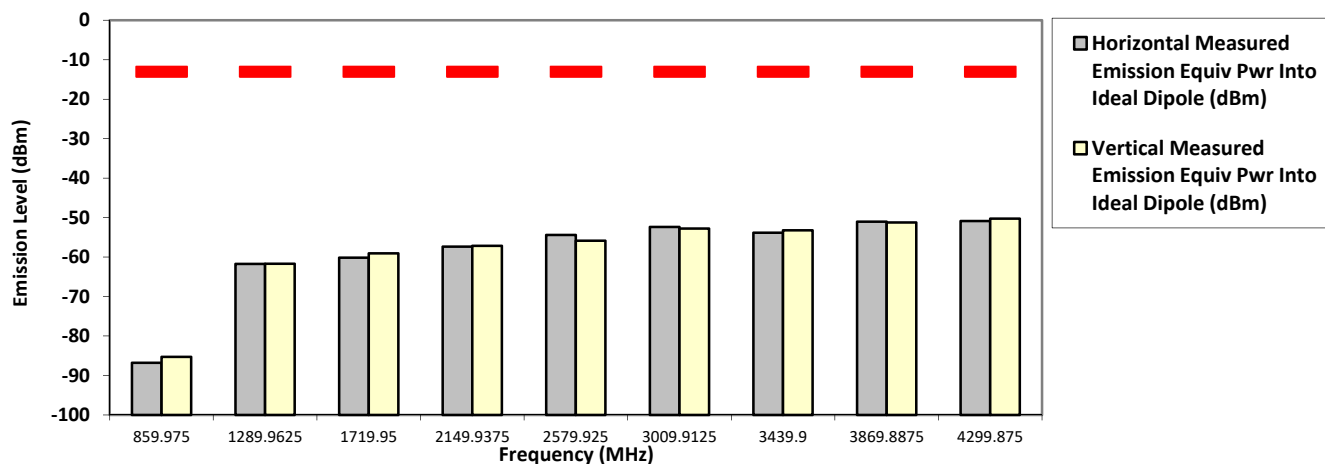
Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00019**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
429.987500 MHz **Test Mode: TX FSK** **2.000 Watt(s) /Low Power**
25 kHz

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
859.9750	-13.0000	-86.7943 **	-85.2844 **
1289.9625	-13.0000	-61.7276 **	-61.6844 **
1719.9500	-13.0000	-60.1641 **	-59.0810 **
2149.9375	-13.0000	-57.3712 **	-57.1379 **
2579.9250	-13.0000	-54.3953 **	-55.8405 **
3009.9125	-13.0000	-52.3638 **	-52.7895 **
3439.9000	-13.0000	-53.8302 **	-53.2365 **
3869.8875	-13.0000	-51.0310 **	-51.2292 **
4299.8750	-13.0000	-50.8802 **	-50.2544 **

RADIATED SPURIOUS EMISSIONS



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sat, Jan 25, 2020

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
 *Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
 Temp(Deg): 23.6 Hum(%RH): 69.7

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

SR:19587-EMC-00019

Accy Part No: 3082933N20-C3

110.000 Watt(s) /Max Power

[illegible]

Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)

Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)

Frequency (MHz)	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
859.975	-85	-88
1289.9625	-61	-62
1719.95	-60	-60
2149.9375	-57	-58
2579.925	-56	-55
3009.9125	-53	-53
3439.9	-52	-51
3869.8875	-51	-51
4299.875	-51	-50

Sat, Jan 25, 2020

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.6 Hum(%RH): 69.7

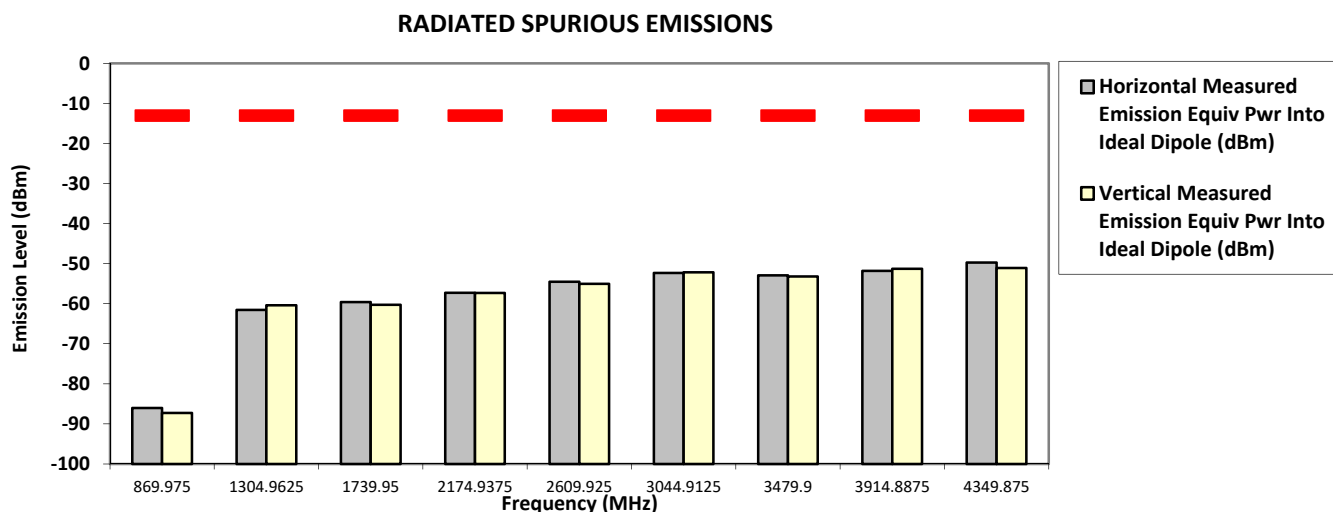
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: T7039A (T7039-UHFR1C) **S/N: 112CVX1806** **SR:19587-EMC-00019**
Battery Part No: NA **Accy Part No: 3082933N20-C3**
434.987500 MHz **Test Mode: TX FSK** **2.000 Watt(s) /Low Power**
25 kHz

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
869.9750	-13.0000	-86.0392 **	-87.2729 **
1304.9625	-13.0000	-61.5453 **	-60.3778 **
1739.9500	-13.0000	-59.5863 **	-60.2692 **
2174.9375	-13.0000	-57.2790 **	-57.3178 **
2609.9250	-13.0000	-54.5211 **	-55.0470 **
3044.9125	-13.0000	-52.3433 **	-52.1502 **
3479.9000	-13.0000	-52.9439 **	-53.2239 **
3914.8875	-13.0000	-51.8117 **	-51.3073 **
4349.8750	-13.0000	-49.7434 **	-51.0839 **



The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman Sat, Jan 25, 2020

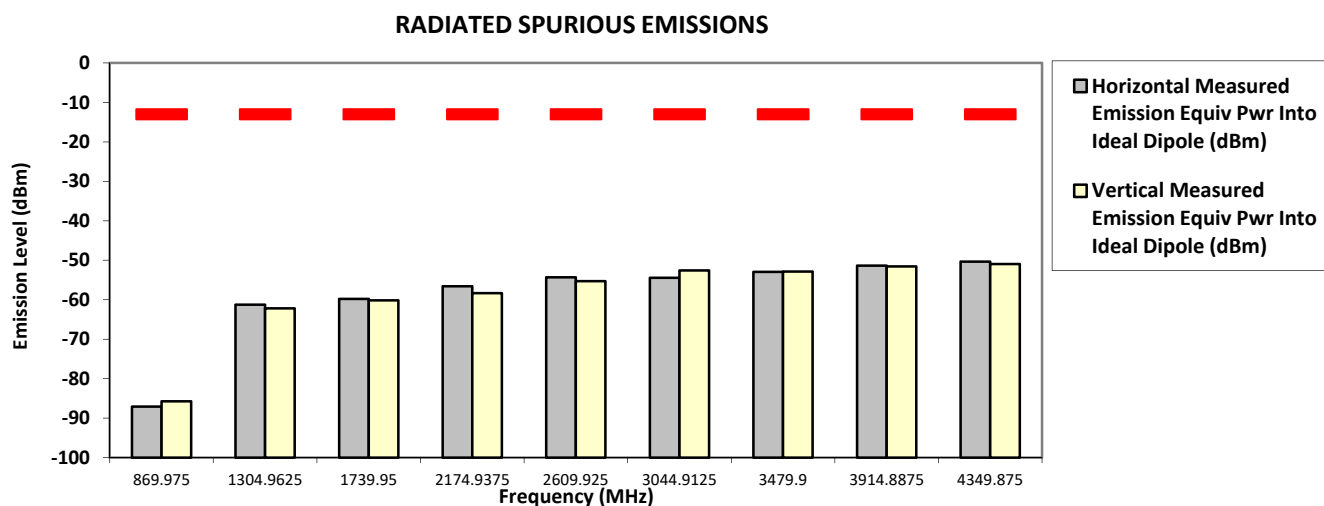
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.6 Hum(%RH): 69.7

System MU: 4.03 dB

Remarks: Passed Results Marginal Results Failed Results

434.987500 MHz

110.000 Watt(s) /Max Power

[illegible]

Motorola Penang EMC Lab - Test Performed by: Nazrin&Qawiman

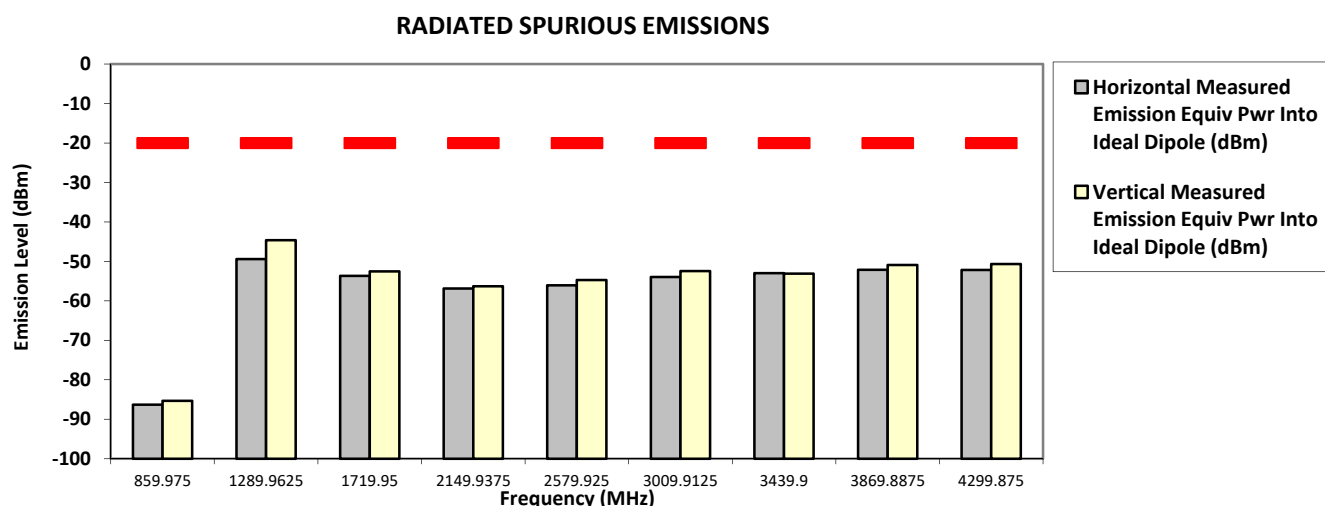
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.6 Hum(%RH): 69.7

System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:
Model Number: T7039A (T7039-UHFR1C) **S/N:** 112CVX1806 **SR:**19587-EMC-00008
Battery Part No: NA **Accy Part No:** 1948691-1-C1
Test Mode: TX Phase II (HDQPSK)
429.987500 MHz **12.5 kHz** **110.000 Watt(s) /Max Power**

[illegible]

The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.

Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.6 Hum(%RH): 69.7

System MU: 4.03 dB

Remarks:

Passed Results	Marginal Results	Failed Results
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6.11.4. Test Limit

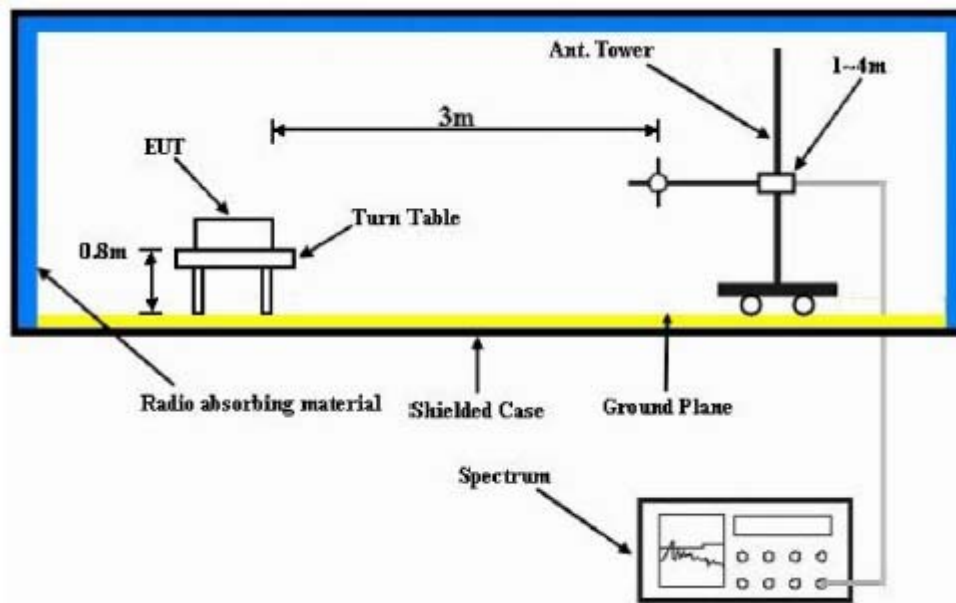
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

Channel Spacing	Part 22	Part 24D	Part 74	Part 80	Part 90 (UHF, VHF, 800, 900)	Part 90 (700)
12.5kHz	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	Not Applicable	50 + log ₁₀ (P) (-20 dBm)	43 + log ₁₀ (P) (-13 dBm)
25kHz		Not Applicable		43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)

Channel Spacing	RSS 134	RSS 182	RSS 119 (UHF, VHF, 800, 900)	RSS 119 (700)
12.5kHz	43 + log ₁₀ (P) (-13 dBm)	Not Applicable	50 + log ₁₀ (P) (-20 dBm)	43 + log ₁₀ (P) (-13 dBm)
25kHz	Not Applicable	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)	43 + log ₁₀ (P) (-13 dBm)

6.12. Effective Radiated Power (ERP)

6.12.1. Test Setup



- 1) The Resolution Bandwidth for Equivalent Radiated Power (ERP) below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for EIRP above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector Mode is RMS.
- 2) In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height (for $F_c < 1\text{GHz}$) or 1.5m (for $F_c > 1\text{GHz}$) of Turn Table, rotated the table 45 degree each interval to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power for each degree interval. The “Read Value” is the spectrum reading of maximum power value.
- 3) The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.

6.12.2. Test Result

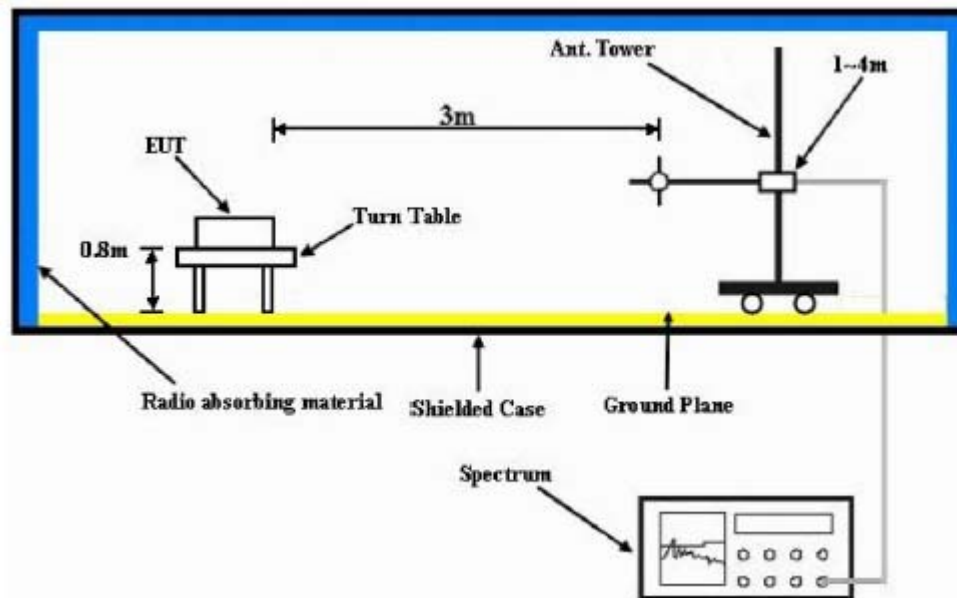
Not Applicable

6.12.3. Test Limit

The maximum output power of the transmitter for mobile stations is 100 watts (20 dB). Power is given in terms of effective radiated power (ERP).

6.13. GNSS (EIRP for 1559 - 1610MHz)

6.13.1. Test Setup



- 4) The Resolution Bandwidth for Equivalent Isotropically Radiated Power (EIRP) below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for EIRP above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector Mode is RMS.
- 5) In the semi-anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height of Turn Table, rotated the table 45 degree each interval to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power for each degree interval. The “Read Value” is the spectrum reading of maximum power value.
- 6) The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.
- 7) $EIRP = \text{“Read Value”} + \text{Measured substitution value} + 2.15$.

6.13.1. Test Result

Not Applicable

6.13.2. Test Limit

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent

isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

~ End of Test Report ~