

	    CERTIFICATE 2518.08 SAMM 825
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.A
Date/s Tested : 21-DEC-2022 - 08-JAN-2024 Report Issue Date : 11-MAR-2024 Manufacturer : MOTOROLA SOLUTIONS INC. (SCHAUMBURG) Manufacturer Address : 1301 E. ALGONQUIN ROAD, BLDG IL02 ROOM 3035, SCHAUMBURG, IL 60196 Requestor : ROLANDO HERNANDEZ Product Type : Hand-held Product Version (PMN) : APX NEXT Model Number (HVIN) : H55TGT9PW8AN Frequency Band : 762-776MHz, 792-806MHz Max RF Output Power : 2.99 Watts Applicant Name : Motorola Solutions Inc Applicant Address : Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia ISED Registrations : MY0001 FCC Registrations : 461337 Firmware Version (FVIN) : D05.75.54 The equipment was tested accordance to the requirement listed below: (LMR) FCC 47 CFR Part 2/ 22 / 74 / 80 / 90 ISED RSS- Gen Issue 5 / 119 Issue 12 / 182 Issue 6 PASS	
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Report Revision History

Revision History	Description	Date	Originator
Rev. A	Initial Report	11-MAR-2024	HAZIM

1.0 General Information

EUT Description:

Technologies	Land Mobile Radio (LMR)
Modulation Type	FM, C4FM, PHASE II

The EUT contains following accessory devices and data cable:

Item	Brand	Model or P/N
HI-CAP BATT, IMPRES GEN2, LIION, IP68, 5650T	MOTOROLA	NNTN9089A
PROGRAMMING, TEST & ALIGNMENT CABLE	MOTOROLA	PMKN4013D

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 C63.26-2015

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

Antenna gain disclaimer

Antenna gain information is provided by customer. The validity of the results is dependent upon this information. The lab will not be held accountable in the event the supplied information affects compliance.

Test configuration of EUT

All relevant configurations involving radio models and accessories (including chargers, batteries, and antennas) were assessed. Only worst case configurations will be included in this report.

2.0 Summary of Test Results

FCC General Rules Part (47CFR)	ISED General Rules Part	Test Item	Result	Remarks	Serial number tested
2.1046(a), 22.565(f), 74.461, 80.215	RSS-119	RF Power Output	Pass		437TZP0844
2.1055, 22.355, 74.464, 80.209	RSS-119	Frequency Stability	NA		SEE NOTE1
2.1047	-	Audio Frequency Response	NA		SEE NOTE1
2.1047	-	Audio Low Pass Filter Response	NA		SEE NOTE1
2.1047, 74.463, 80.213	-	Modulation limiting	NA		SEE NOTE1
2.1049, 22.359, 90.21, 74.462, 80.211(b), (c)	RSS-119	Occupied Bandwidth	NA		SEE NOTE1
2.1051, 22.359 (a), (b)	-	Band Edge Conducted Spurious Emission	NA		SEE NOTE1
90.214	RSS-119	Transient Frequency Behavior	NA		SEE NOTE1
90.543(a), (b)	RSS-119	Adjacent Channel Power	NA		SEE NOTE1
2.1051, 22.359, 90.210 74.462(c), 80.211(c)	RSS-119	Conducted Spurious Emissions	Pass	Worst case: -33.33dBm	437TZP0844
2.1051, 22.359, 74.462(c), 80.211(f)	RSS-119	Radiated Spurious Emission	Pass	Worst case: -40.5833dBm (margin: 27.5833dB) (noise floor)	437TYV1807
-	-	GNSS (EIRP for 1559 – 1610MHz)	NA		SEE NOTE1
-	-	Effective Radiated Power (ERP)	NA		SEE NOTE1

NA → Not Applicable

NOTE1: Selection of test parameters, the report contain a limited number of parameters deemed to be influenced by the relevant design changes, as agreed with the applicant.

3.0 Measurement Uncertainty

Measurement	Frequency	Expended Uncertainty (k=1.96) (±)
AC Power Line Conducted Spurious Emission	150KHz ~ 30MHz	3.48 dB
Radiated Emissions up to 1 GHz dB μ V/m (Field Strength)	30MHz ~ 1000MHz	5.88 dB
Radiated Emissions above 1 GHz dB μ V/m (Field Strength)	1GHz ~ 18GHz	5.84 dB
	18GHz ~ 40GHz	6.02 dB
Radiated Emissions dBm (ERP/EiRP)	30MHz ~ 18GHz	4.03 dB
Conducted Spurious Emissions	9kHz ~ 12.75GHz	2.82 dB
Frequency Stability	9kHz ~ 12.75GHz	0.0085 ppm
Audio Frequency Response / Low Pass Filter Response	300Hz – 20kHz	4.09 %
Modulation Limiting	300Hz – 3kHz	1.15 %
Occupied Bandwidth	9kHz ~ 12.75GHz	2.82 dB
Band Edge Conducted Spurious Emission	9kHz ~ 12.75GHz	2.82 dB
Transient Frequency Behavior	9kHz ~ 12.75GHz	5.4 ms
Adjacent Channel Power	9kHz ~ 12.75GHz	2.82 dB

4.0 Equipment List

FCC Analog ATE#1: (SW version: FCC_Analog_v2.5.0)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
CHAMBER	SH-641	92009188	09-Mar-23	09-Mar-24
POWER METER	E4416A	MY50000115	10-Feb-23	10-Feb-24
POWER SUPPLY	6032A	3232A08410	20-Jun-23	20-Jun-24
CXA SIGNAL ANALYZER	N9000B	MY60251574	20-May-23	20-May-24
AUDIO ANALYZER	U8903B	MY61070005	21-Jun-23	21-Jun-24
POWER SENSOR	E4412A	MY50000141	21-Aug-23	21-Aug-24
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_R1.2.1)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
SWITCH CONTROL UNIT	3488A	2719A36210	CNR	CNR
ATTENUATOR / SWITCH DRIVER	11713A	3748A09090	CNR	CNR
POWER SENSOR	E9301B	MY50180003	20-Jun-23	20-Jun-24
SIGNAL GENERATOR	8657A	3250A05137	22-Jun-23	22-Jun-24
AUDIO ANALYZER	8903B	3011A12671	16-Mar-23	16-Mar-24
POWER METER	E4416A	MY45101016	01-Mar-23	01-Mar-24
STEP ATTENUATOR	8494G	MY52300115	20-Aug-23	20-Aug-24
POWER SUPPLY	6031A	3313A02714	04-Oct-23	04-Oct-24
ANALYZER SPECTRUM	E4443A	MY46181974	01-Dec-23	01-Dec-24
ATTENUATOR/110DB	8496G	MY52300757	20-Jun-23	20-Jun-24
AUDIO ANALYZER	8903B	3729A17409	19-Jul-23	19-Jul-24
MODULATION ANALYZER	8901B	3749A05886	26-Sep-23	26-Sep-24
N to N RF Cable # 1	SF126/11N/11N	NA	NA	NA
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

FCC CONDUCTED SPUR EMISSION ATE # 1 (SW version: Conducted Spur ATE_rev 1.23.04)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
SWITCH CONTROL UNIT	3488A	2719A32735	CNR	CNR
ANALYZER SPECTRUM	E4445A	MY46181250	20-May-23	20-May-24
POWER SUPPLY	6031A	3506A03271	04-Oct-23	04-Oct-24
INTERFACE BOX - FILTER	CNR	CS001	CNR	CNR
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

EMC Chamber 1

DESCRIPTION	MODEL	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
DRG HORN FREQ.	SAS-571	720	06-Apr-21	06-Apr-23
DRG HORN FREQ.	SAS-571	1027	03-Jun-22	03-Jun-23
DC Power Supply	N7976A	MY53410110	30-Jun-22	30-Jun-23
SIGNAL GENERATOR	SMB 100A	182511	4-Jun-21	4-Jun-24
EMI TEST RECEIVER	ESW44	101751	24-Mar-22	24-Mar-23
5m SEMI-ANECHOIC CHAMBER	S800-HX	J2308	No Cal. Req'd	No Cal. Req'd
BILOG ANTENNA	CBL6112B	2863	22-Jun-22	22-Jun-23
BILOG ANTENNA	CBL6112D	55546	23-Jun-22	23-Jun-23
DATA LOGGER THERMOHYGROMETER	SDL500	A.016785	23-Jun-22	23-Jun-23
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	BBHA9170255	18-Feb-22	18-Feb-23
PREAMPLIFIER 18-40GHz	Miteq Hi Gain Sucoflex	002	No Cal. Req'd	No Cal. Req'd
PREAMPLIFIER	PAM-0118P	361	11-Sep-20	11-Sep-23
LOOP ANTENNA	6502	00203479	10-Feb-22	10-Feb-23
TEST SOFTWARE	EMC_FCC_IC_BLUETOOTH_RE_TEST			
VERSION	EMC_FCC_RE_v1.6.5			

5.0 Test Condition

5.1. Transmitter Test Conditions

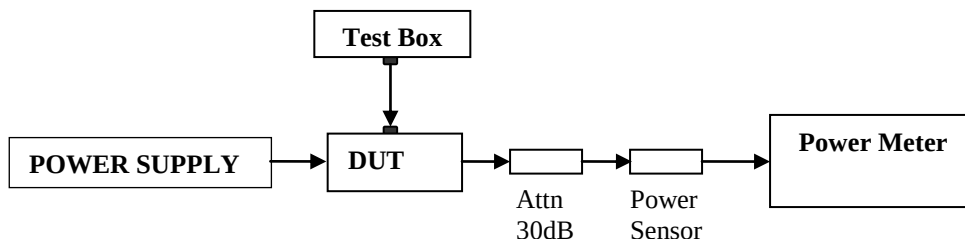
Test Item, (Channel Spacing)	Power (W)	Modulation	Test Frequency (MHz)	Tested By	Environmental conditions
RF Output Power	Low & Max	FM	762.0125, 764.0125, 768.0125, 769.0125, 769.0875, 774.8875, 774.9375, 775.9875, 792.0125, 798.0125, 799.0125, 799.0875, 804.9125, 804.9375, 805.9875	Hazim	23.4°C, 50%RH
Frequency Stability	Max	FM	NA		
Audio Frequency Response (12.5kHz / 25kHz)	Max	FM	NA		
Audio Low Pass Filter Response (12.5kHz / 25kHz)	Max	FM	NA		
Modulation limiting (12.5kHz / 25kHz)	Max	FM	NA		
Occupied Bandwidth (12.5kHz / 20kHz / 25kHz)	Max	FM/C4FM/Phase II	NA		
Band Edge Conducted Spurious Emissions (Part 22) (12.5kHz / 20kHz / 25kHz)	Max	FM/C4FM/Phase II	NA		
Transient Frequency Behavior (UHF & VHF Band) (12.5kHz / 25kHz)	Max	FM/C4FM	NA		
Adjacent Channel Power (700MHz Band) (12.5kHz / 25kHz)	Max	FM/C4FM/Phase II	NA		
Conducted Spurious Emissions- (12.5kHz / 25kHz)	Low / Max	FM/C4FM/Phase II	762.0125, 769.0125, 769.0875, 774.8875, 794.0125, 799.0875, 804.9125	Hazim	23.4°C, 50%RH
Radiated Spurious Emission (12.5kHz / 25kHz)	Low / Max	FM/C4FM/Phase II	762.0125, 769.0125, 769.0875, 774.8875, 794.0125, 799.0875, 804.9125	Qawiman & Nazrin	23.9°C, 70.3%RH
GNSS (EIRP for 1559 - 1610MHz) (12.5kHz / 25kHz)	Max	FM	NA		
Effective Radiated Power (ERP) (12.5kHz / 25kHz)	Max	FM	NA		

NA → Not Applicable

6.0 Transmitter Test Parameters

6.1. RF Output Power

6.1.1. Test Setup



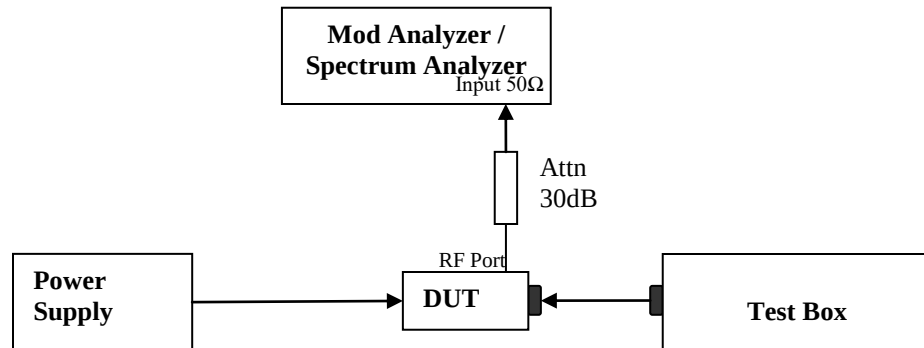
- 1) The DUT transmitter connected to Power Meter using the 30 dB attenuator and power sensor with above setup.
- 2) Path loss for the measurement included.
- 3) All the measurement was done at low, mid, high frequency for each band.
- 4) Record the power into the test report.

6.1.2. Test Result

Temperature	25°C				
Voltage (V)	7.5V				
Frequency (MHz)	Low Power (W)	Current (A)	Max Power (W)	Current (A)	Remarks
762.0125	1.00	1.24	2.99	1.88	Not for FCC Review
764.0125	1.02	1.20	2.92	1.75	Not for FCC Review
768.0125	0.99	1.23	2.99	1.86	Not for FCC Review
769.0125	1.20	1.22	2.20	1.64	Itinerant low power
769.0875	1.00	1.23	2.99	1.84	
774.8875	1.00	1.27	2.99	1.84	
774.9375	1.20	1.25	2.20	1.59	Itinerant low power
775.9875	1.00	1.28	2.99	1.86	Not for FCC Review
792.0125	0.99	1.05	2.95	1.68	Not for FCC Review
798.0125	1.00	1.04	2.97	1.64	Not for FCC Review
799.0125	1.20	1.19	2.20	1.56	Itinerant low power
799.0875	1.00	1.05	2.98	1.64	
804.9125	1.00	1.08	2.97	1.67	
804.9375	1.20	1.17	2.20	1.58	Itinerant low power
805.9875	1.00	1.09	2.98	1.71	Not for FCC Review

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

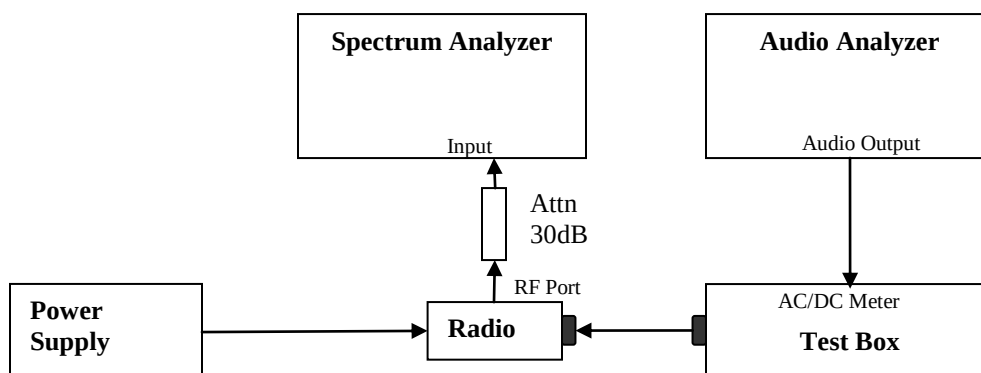
Not Applicable

6.2.3. Test Limit

As per manufacturer declared spec +/- #.##ppm

6.3. Modulation Characteristics

6.3.1. Test Setup



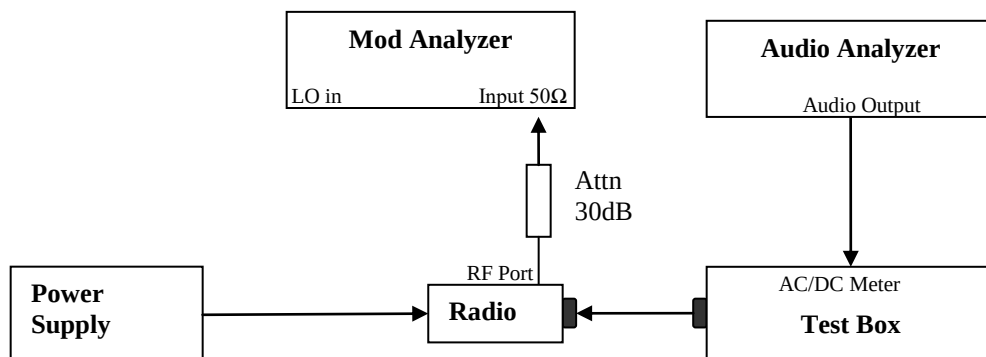
- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Path loss for the measurement included.
- 3) Set the audio bandwidth filter to 15 kHz and 50 kHz.
- 4) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 20% of the Full rated system deviation.
- 5) On audio analyzer, set the rated level as 0dB reference
- 6) Vary the audio frequency from 300 Hz to 20 kHz. Record the change in modulation in reference to step 5.

6.3.2. Test Result

Not Applicable

6.4. Modulation Limiting

6.4.1. 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.

6.4.2. Test Result

Not Applicable

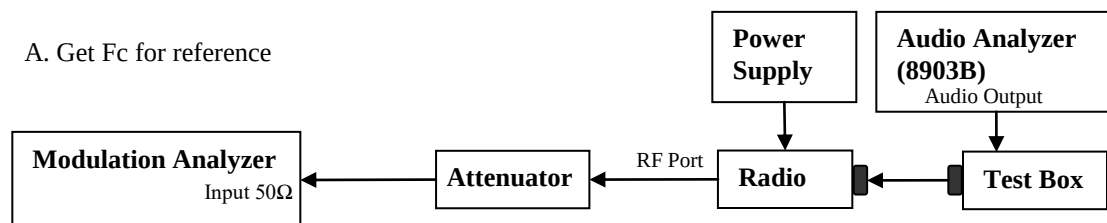
6.4.3. Test Limit

Modulation Limiting shall not exceed 100 percent.

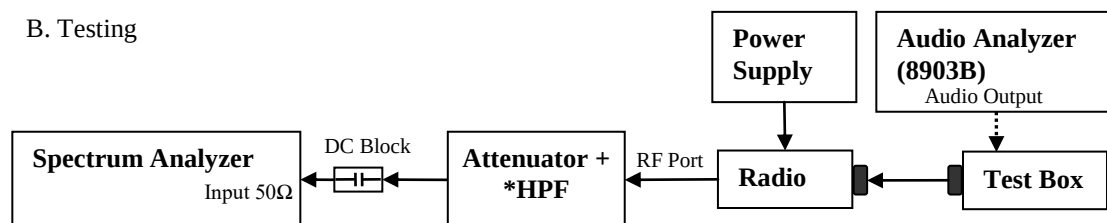
6.5. Occupied Bandwidth

6.5.1. Test Setup (Analog)

A. Get Fc for reference



B. Testing



- 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.

* 99% Bandwidth measurement is computed by the spectrum analyzer and is consistent with the C63.26 5.4.4 method.

6.5.2. Test Result (Analog)

Standard Audio Modulation (25 kHz Channelization, Analog Voice):
Emission Designator 16K0F3E

In this case, the maximum modulating frequency is 3 kHz with a 5 kHz deviation.

$BW = 2(M+D) = 2*(3 \text{ kHz} + 5 \text{ kHz}) = 16 \text{ kHz} = 16K0$
F3E portion of the designator indicates voice.

Therefore, the entire designator for 25 kHz channelization analog voice is 16K0F3E.

Standard Audio Modulation (12.5 kHz Channelization, Analog Voice):
Emission Designator 11K0F3E

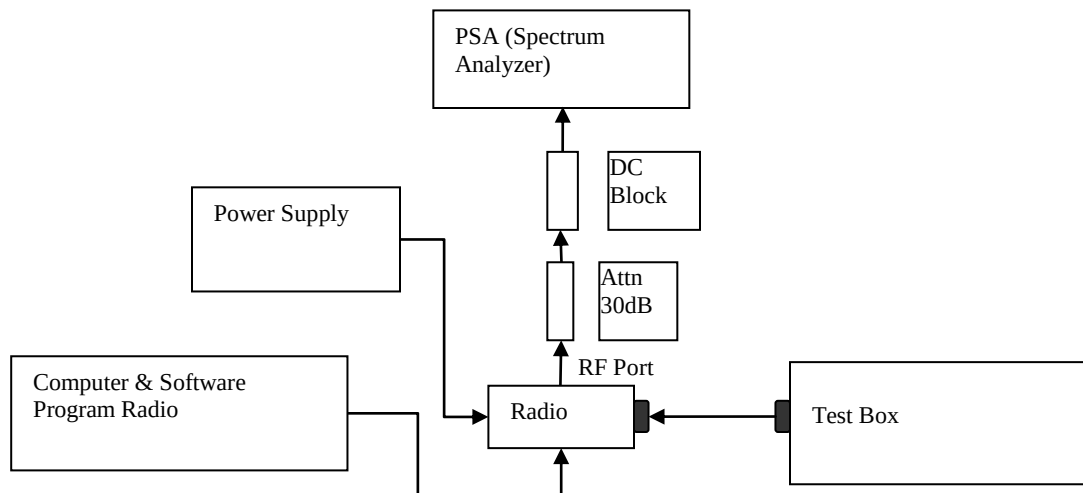
In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation.

$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} = 11K0$
F3E portion of the designator indicates voice.

Therefore, the entire designator for 12.5 kHz channelization analog voice is 11K0F3E.

Not Applicable

6.5.3. 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.

* 99% Bandwidth measurement is computed by the spectrum analyzer and is consistent with the C63.26 5.4.4 method.

*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.

6.5.4. Test Result (Digital)

Digital (12.5 kHz Channelization, Digital Voice/Data/Voice+Data):
Emission Designator 8K10F1E/D/W

The 99% energy rule (title 47CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It basically states that 99% of the modulation energy falls within X kHz, in this case, 7.60 kHz. Measurements were performed in accordance with TIA/EIA TSB102.CAAB Section 2.2.5.2. The emission mask was obtained from 47CFR 90.210(d).

F1E/D/W portion of the designator indicates digital voice/data/voice+data.

Therefore, the entire designator for 12.5 kHz channelization digital voice is 8K10F1E/D/W.

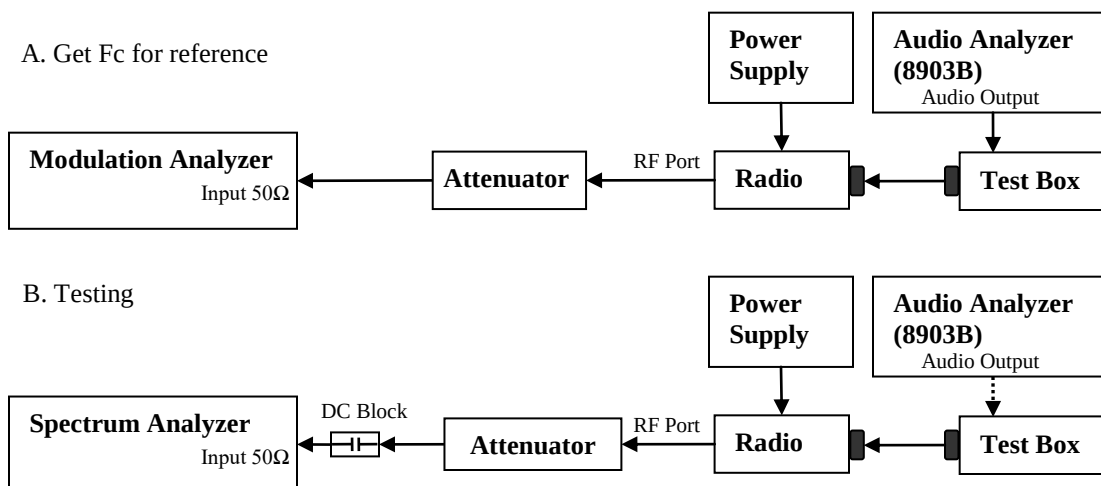
Not Applicable

6.5.5. 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.

6.6. Band Edge Conducted Spurious Emission (Part 22)

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% and 26dB Emissions Bandwidth Measurement.
- 6) Key in the Fc and Resolution Bandwidth.
- 7) Transmit the DUT and record the occupied Bandwidth frequencies.
- 8) Preset the spectrum analyzer for band edge measurement.
- 9) The band edges of lowest and highest channels were measured.
- 10) Key in the Lowest and highest channel frequency, span is 60 kHz and Resolution Bandwidth is at least 1% of Emission Bandwidth.
- 11) Save the screen shot as modulated signal.
- 12) Remove the audio tone from audio analyzer to capture unmodulated signal.

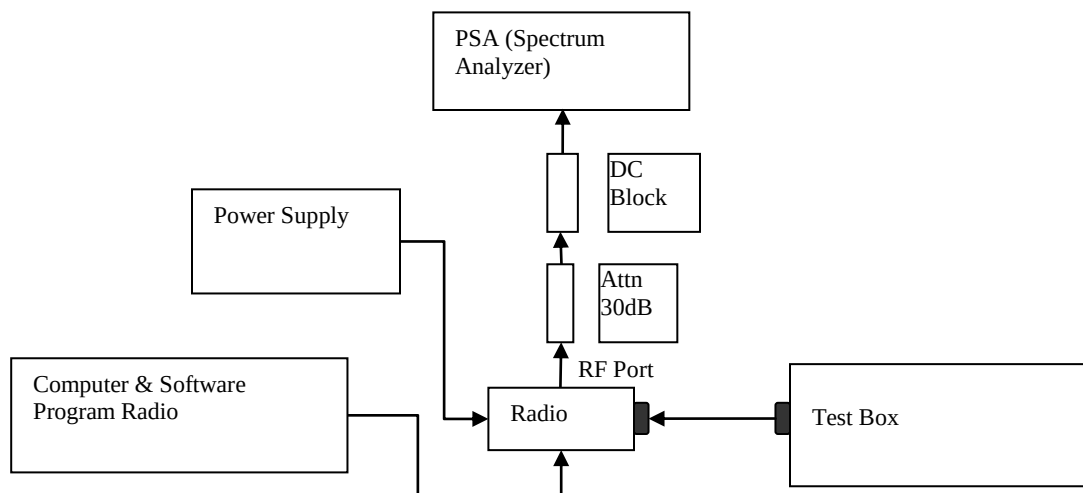
*Note:

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

6.6.2. Test Result (Analog)

Not Applicable

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% 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.

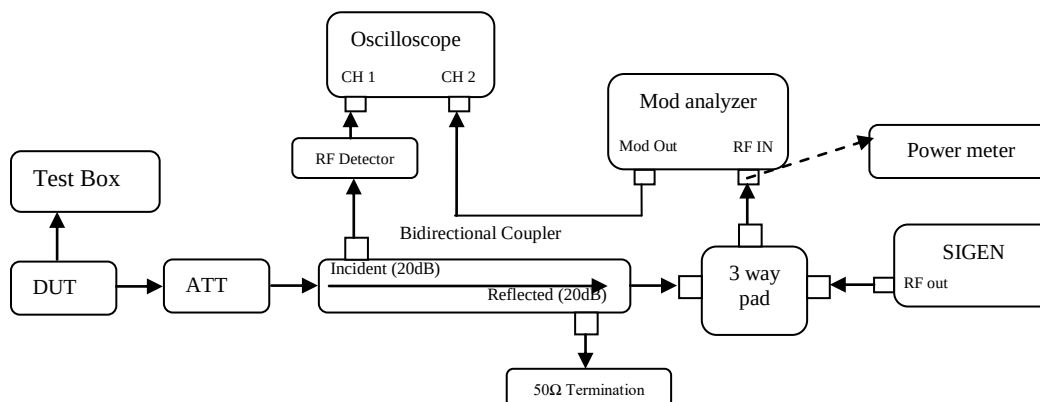
6.6.4. Test Result (Digital)
Not Applicable

6.6.5. 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.

6.7. Transient Frequency Behavior

6.7.1. 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.

6.7.2. Test Result

Not Applicable

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

t₁ is the time period immediately following t_{on}.

t₂ is the time period immediately following t₁.

t₃ 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.

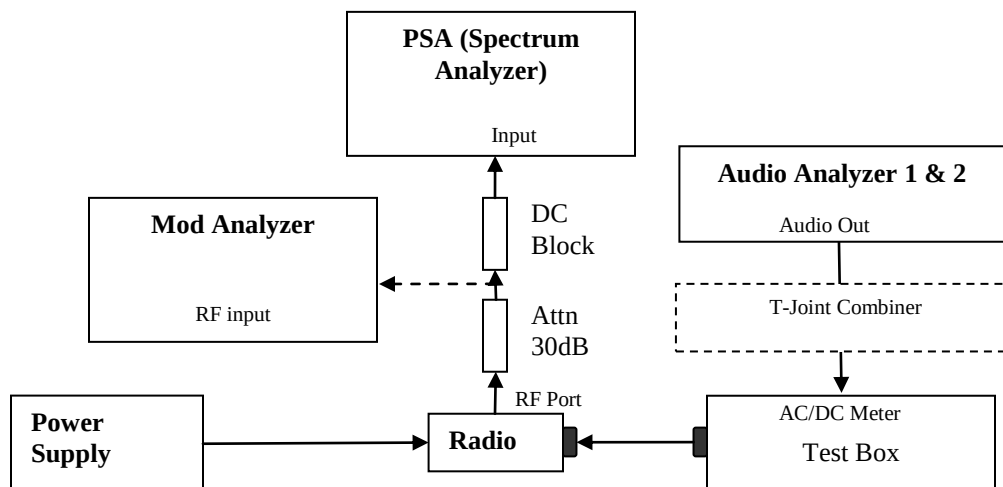
² During the time from the end of t₂ to the beginning of t₃, the frequency difference must not exceed the limits specified in §90.213.

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.

6.8. Adjacent Channel Power

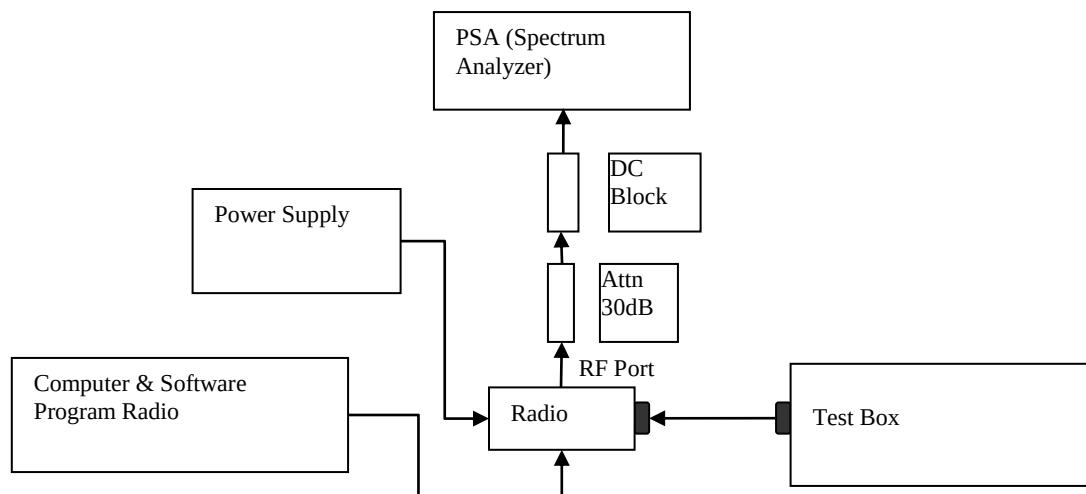
6.8.1. Test Setup (Analog)



- 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.

6.8.2. Test Result Not Applicable

6.8.3. 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.

6.8.4. Test Result

Not Applicable

6.8.5. 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

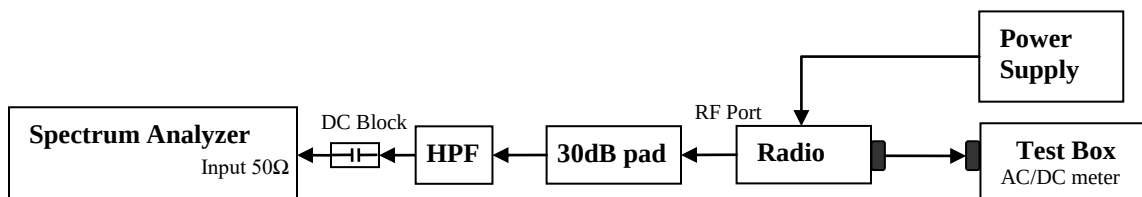
Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP (dBc)
9.375	6.25	-40
15.625	6.25	-60
21.875	6.25	-60
37.5	25	-60
62.5	25	-65
87.5	25	-65
150	100	-65
250	100	-65
350.00	100	-65
>400 kHz to 12 MHz	30 (s)	-80
12 MHz to paired receive band	30 (s)	-80
In the paired receive band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

6.9. Conducted Spurious Emission

6.9.1. Test Setup

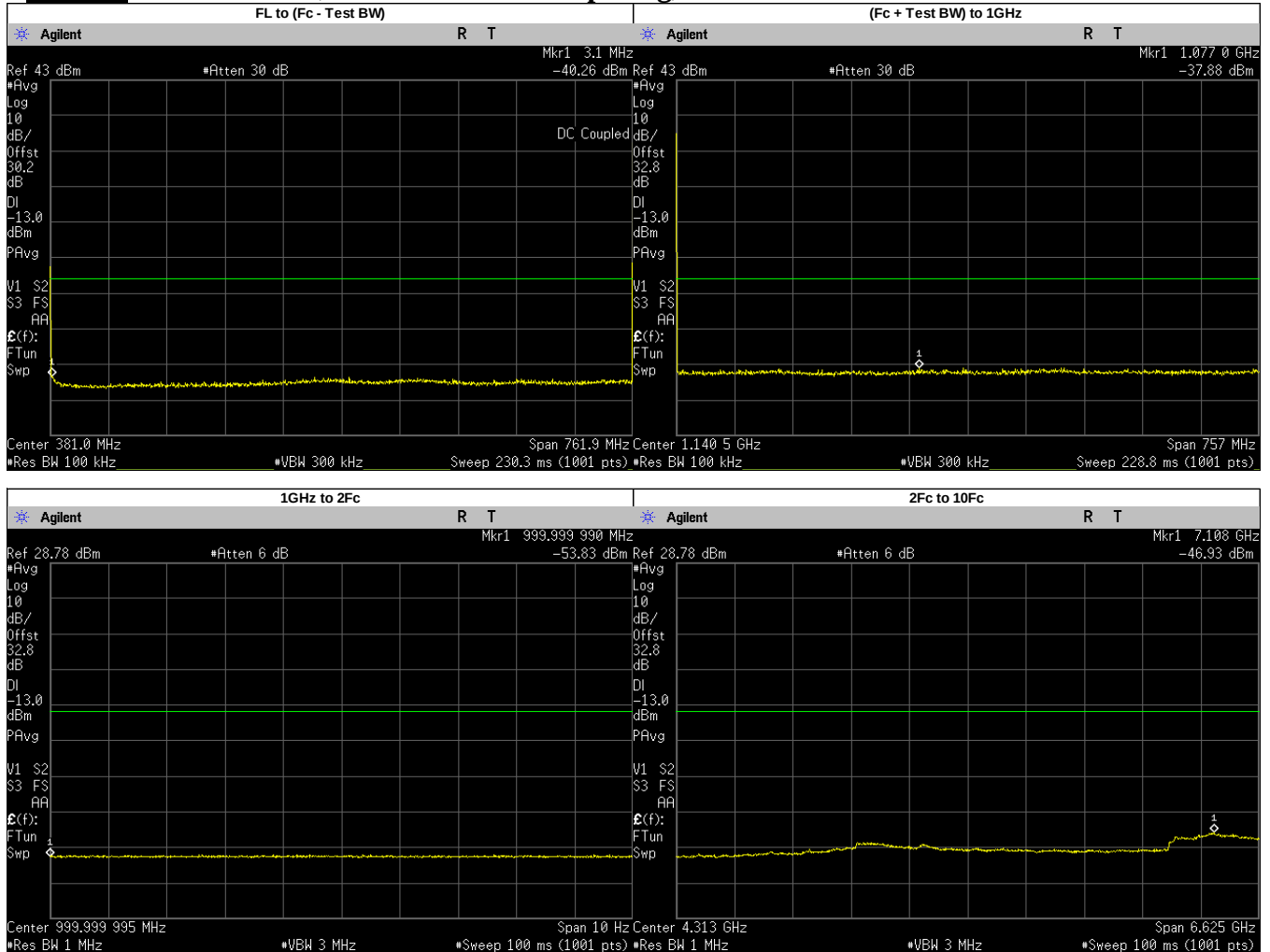


- 1) The DUT transmitter output port was connected to Spectrum Analyzer with above setup.
- 2) Program and set radio to operate in desire test frequency and mode. (Analog / digital modulation form).
- 3) Path loss for the measurement included.
- 4) Set the PSA Resolution Bandwidth as per rules part.
- 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.

6.9.2. Test Result (Analog)

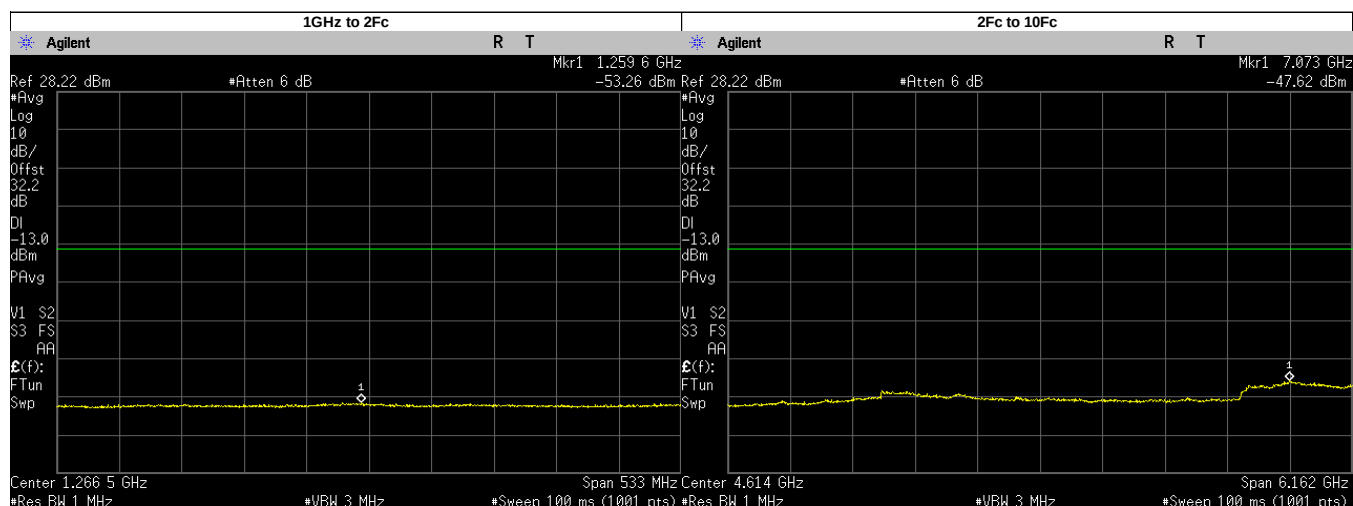
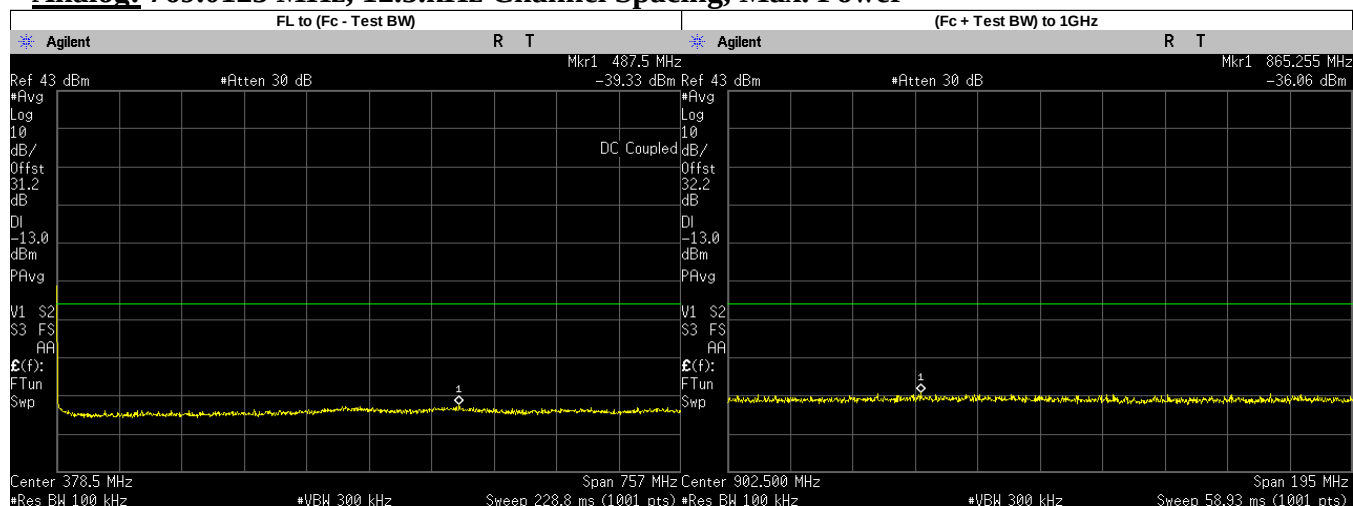
Not For FCC Review

Analog: 762.0125 MHz, 12.5.kHz Channel Spacing, Max. Power



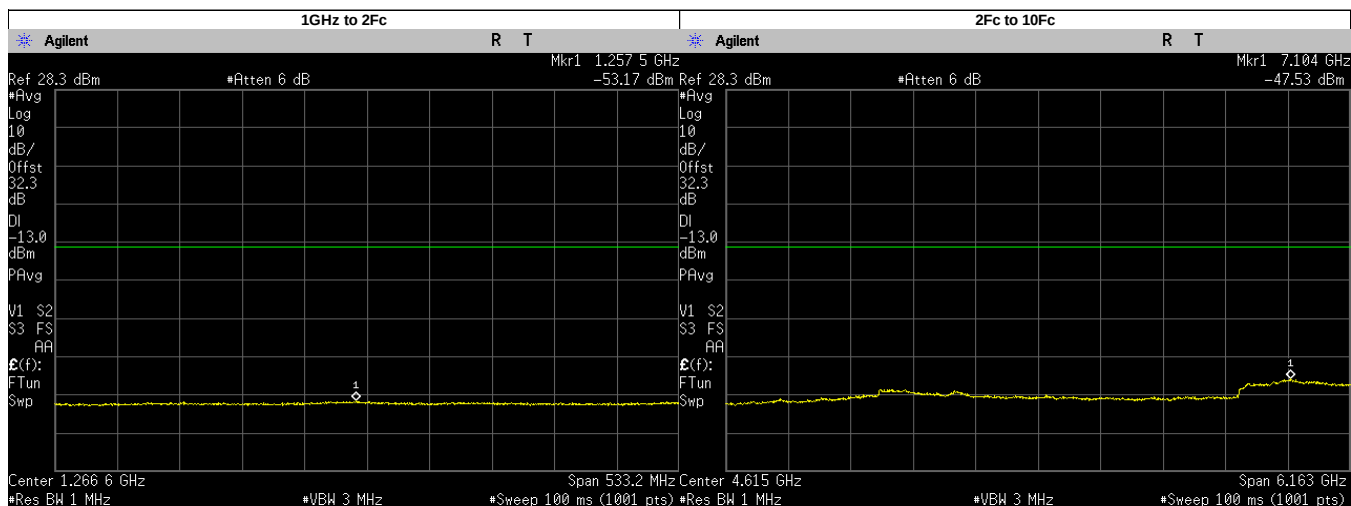
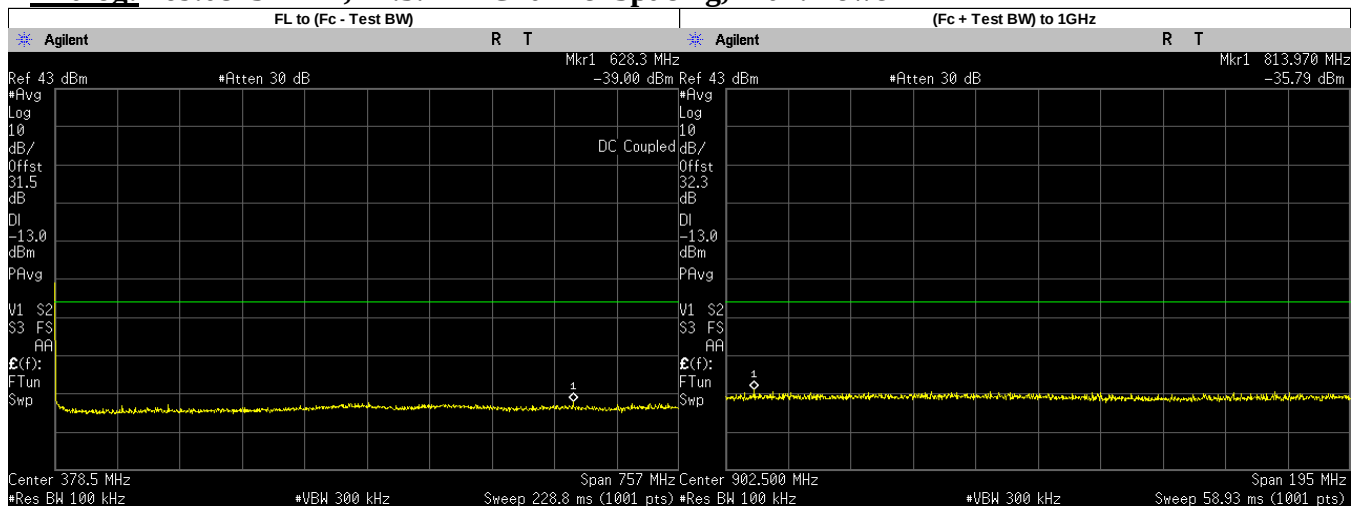
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	3.1000	-40.26	-13	PASS
(Fc + Test BW) to <2Fc	1076.9620	-37.88	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	999.9999	-53.83	-13	PASS
	7108.3650	-46.93	-13	PASS
	1524.0250	-53.46	-13	PASS
	2286.0370	-53.04	-13	PASS
	3048.0500	-50.01	-13	PASS
	3810.0620	-50.45	-13	PASS
	4572.0750	-52.05	-13	PASS
	5334.0870	-52.14	-13	PASS
	6096.1000	-52.05	-13	PASS
	6858.1130	-48.67	-13	PASS
	7620.1250	-48.75	-13	PASS

Analog: 769.0125 MHz, 12.5.kHz Channel Spacing, Max. Power



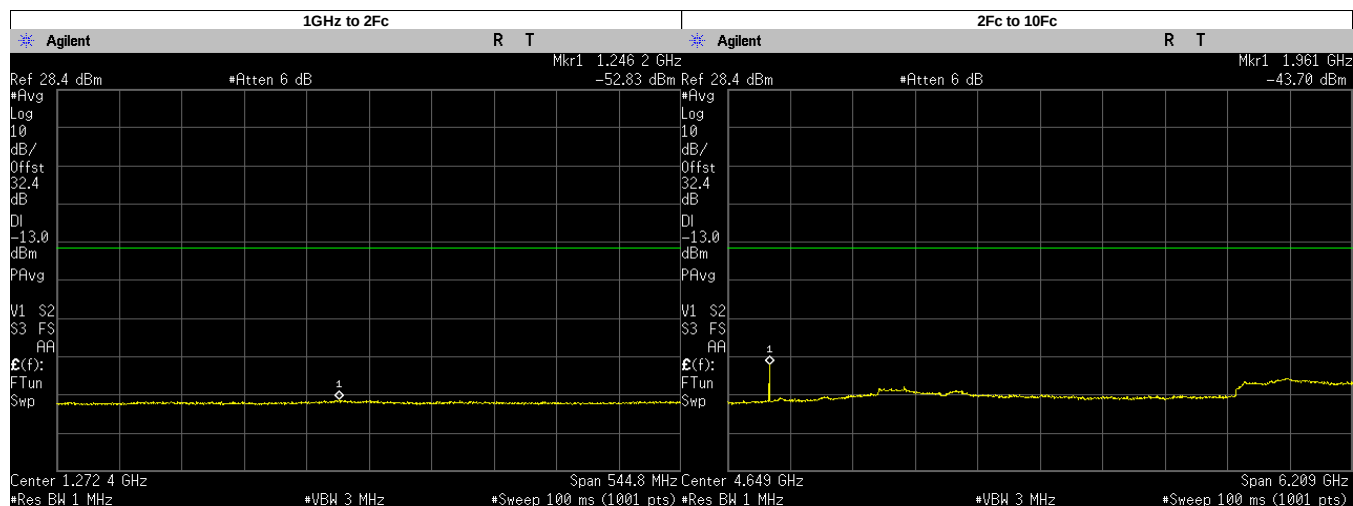
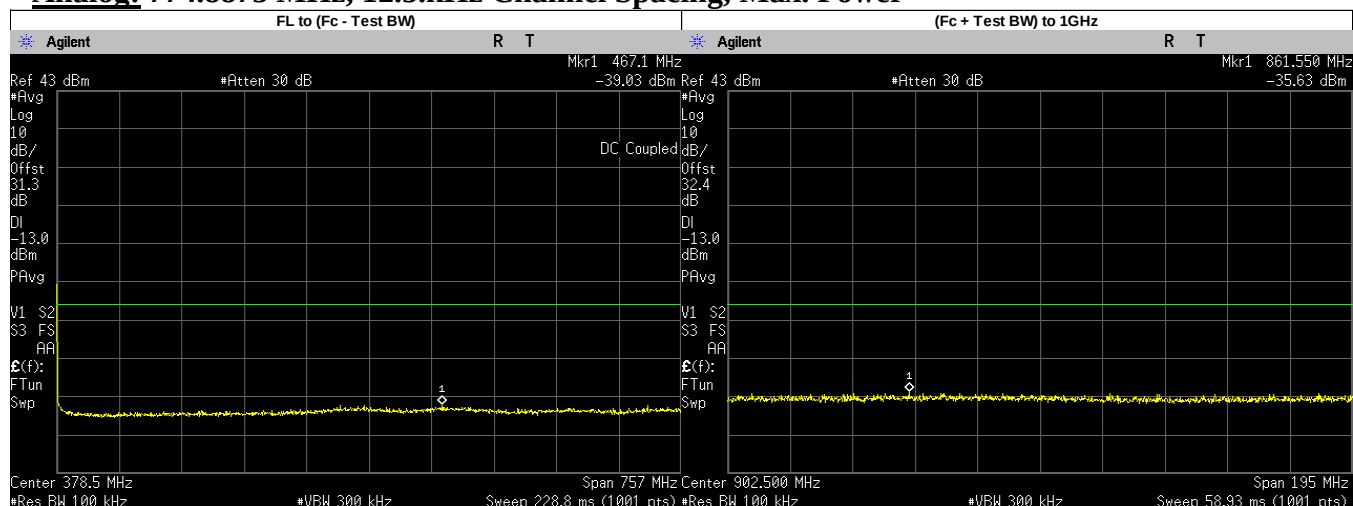
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	487.5000	-39.33	-13	PASS
(Fc + Test BW) to <2Fc	865.2550	-36.06	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1259.5830	-53.26	-13	PASS
	7072.7530	-47.62	-13	PASS
	1538.0250	-53.97	-13	PASS
	2307.0370	-53.61	-13	PASS
	3076.0500	-50.76	-13	PASS
	3845.0620	-51.33	-13	PASS
	4614.0750	-52.63	-13	PASS
	5383.0870	-52.79	-13	PASS
	6152.1000	-52.50	-13	PASS
	6921.1130	-48.80	-13	PASS
	7690.1250	-49.07	-13	PASS

Analog: 769.0875 MHz, 12.5.kHz Channel Spacing, Max. Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	628.3000	-39.00	-13	PASS
(Fc + Test BW) to <2Fc	813.9700	-35.79	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1257.5240	-53.17	-13	PASS
	7104.2560	-47.53	-13	PASS
	1538.1750	-54.02	-13	PASS
	2307.2620	-53.39	-13	PASS
	3076.3500	-50.59	-13	PASS
	3845.4370	-51.14	-13	PASS
	4614.5250	-52.47	-13	PASS
	5383.6130	-52.86	-13	PASS
	6152.7000	-52.49	-13	PASS
	6921.7880	-48.69	-13	PASS
	7690.8750	-48.96	-13	PASS

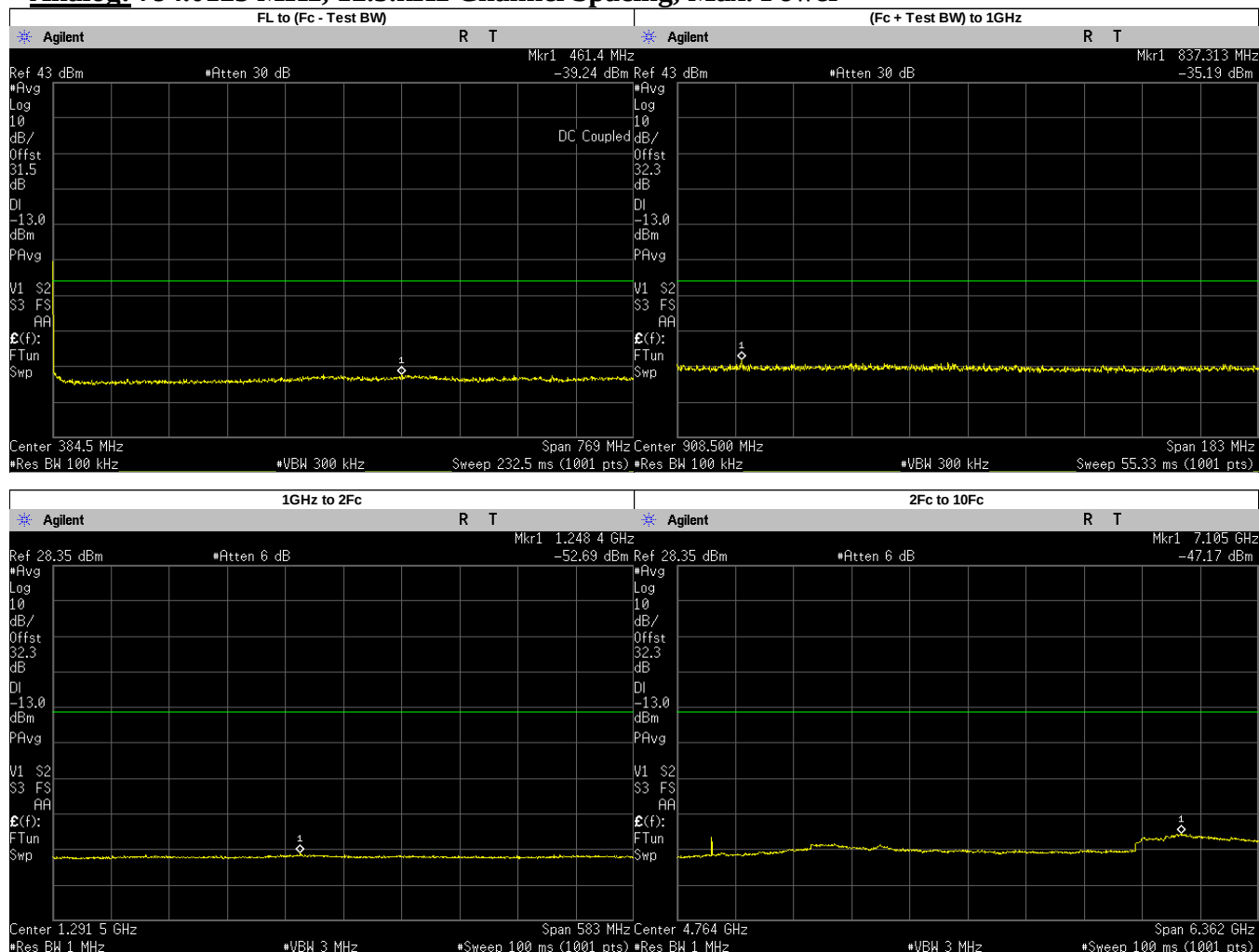
Analog: 774.8875 MHz, 12.5.kHz Channel Spacing, Max. Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	467.1000	-39.03	-13	PASS
(Fc + Test BW) to <2Fc	861.5500	-35.63	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1246.2380	-52.83	-13	PASS
	1960.7850	-43.70	-13	PASS
	1549.7750	-53.69	-13	PASS
	2324.6620	-52.89	-13	PASS
	3099.5500	-50.08	-13	PASS
	3874.4370	-50.59	-13	PASS
	4649.3250	-51.98	-13	PASS
	5424.2120	-52.29	-13	PASS
	6199.1000	-52.46	-13	PASS
	6973.9880	-48.17	-13	PASS
	7748.8750	-48.30	-13	PASS

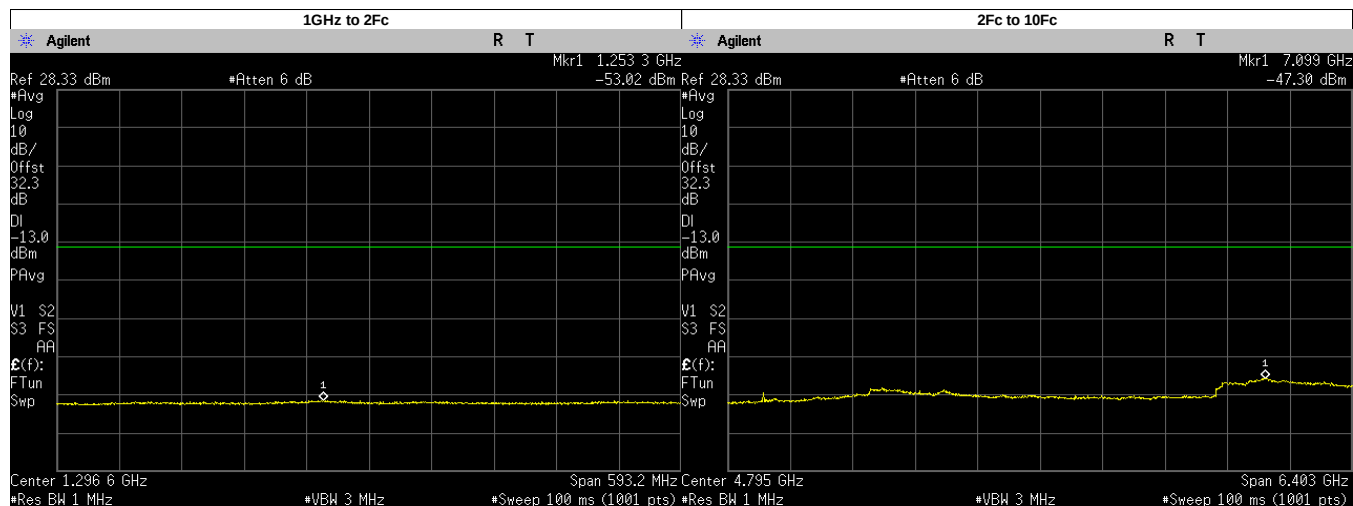
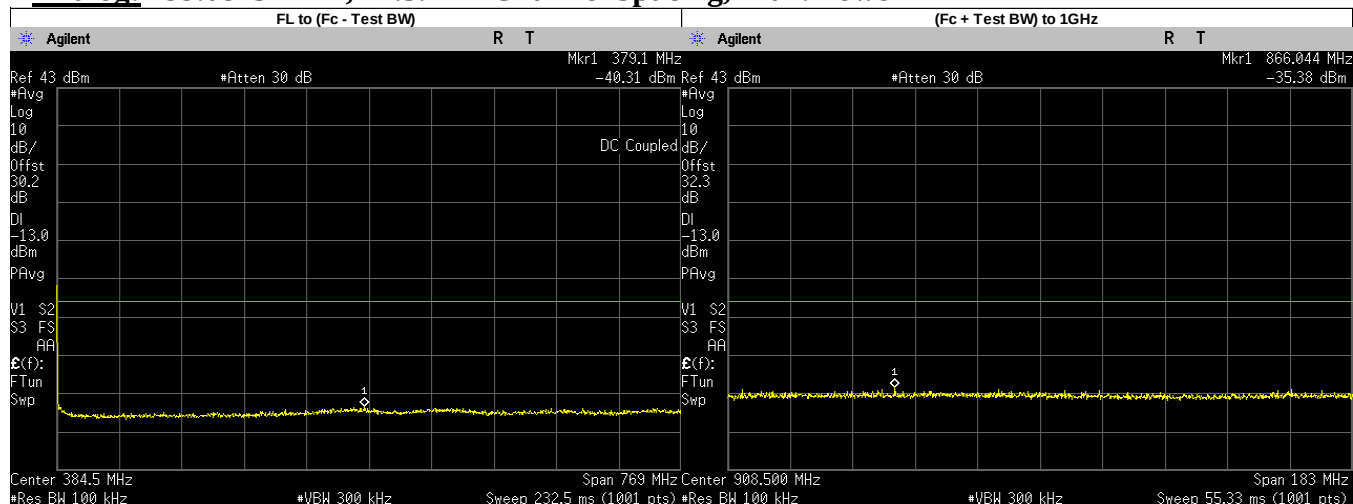
Not For FCC Review

Analog: 794.0125 MHz, 12.5.kHz Channel Spacing, Max. Power



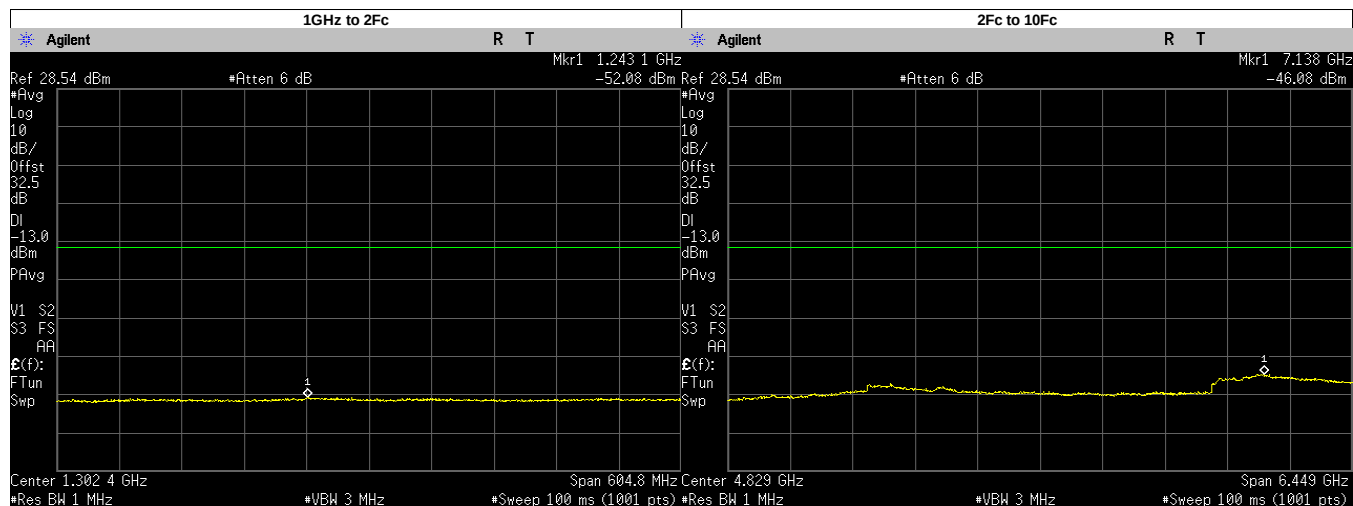
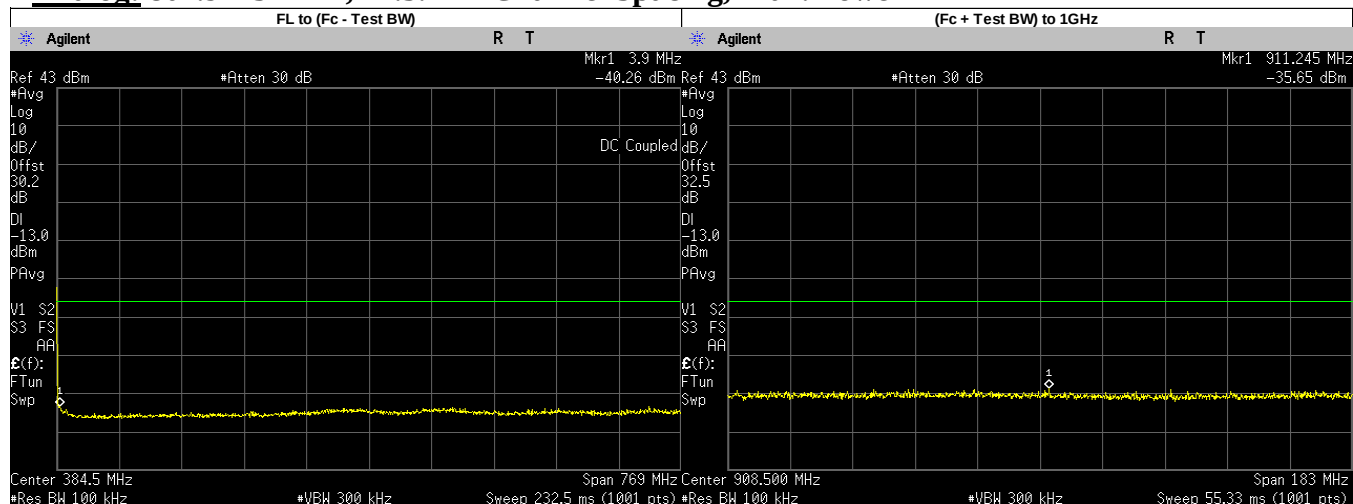
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	461.4000	-39.24	-13	PASS
(Fc + Test BW) to <2Fc	837.3130	-35.19	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1248.3690	-52.69	-13	PASS
	7105.3280	-47.17	-13	PASS
	1588.0250	-53.76	-13	PASS
	2382.0370	-53.07	-13	PASS
	3176.0500	-50.18	-13	PASS
	3970.0620	-51.58	-13	PASS
	4764.0750	-51.94	-13	PASS
	5558.0870	-52.68	-13	PASS
	6352.1000	-52.22	-13	PASS
	7146.1130	-47.49	-13	PASS
	7940.1250	-49.37	-13	PASS

Analog: 799.0875 MHz, 12.5.kHz Channel Spacing, Max. Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	379.1000	-40.31	-13	PASS
(Fc + Test BW) to <2Fc	866.0440	-35.38	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1253.2860	-53.02	-13	PASS
	7099.4970	-47.30	-13	PASS
	1598.1750	-53.92	-13	PASS
	2397.2620	-53.01	-13	PASS
	3196.3500	-50.27	-13	PASS
	3995.4370	-51.91	-13	PASS
	4794.5250	-52.08	-13	PASS
	5593.6130	-52.74	-13	PASS
	6392.7000	-52.20	-13	PASS
	7191.7880	-47.88	-13	PASS
	7990.8750	-49.15	-13	PASS

Analog: 804.9125 MHz, 12.5.kHz Channel Spacing, Max. Power

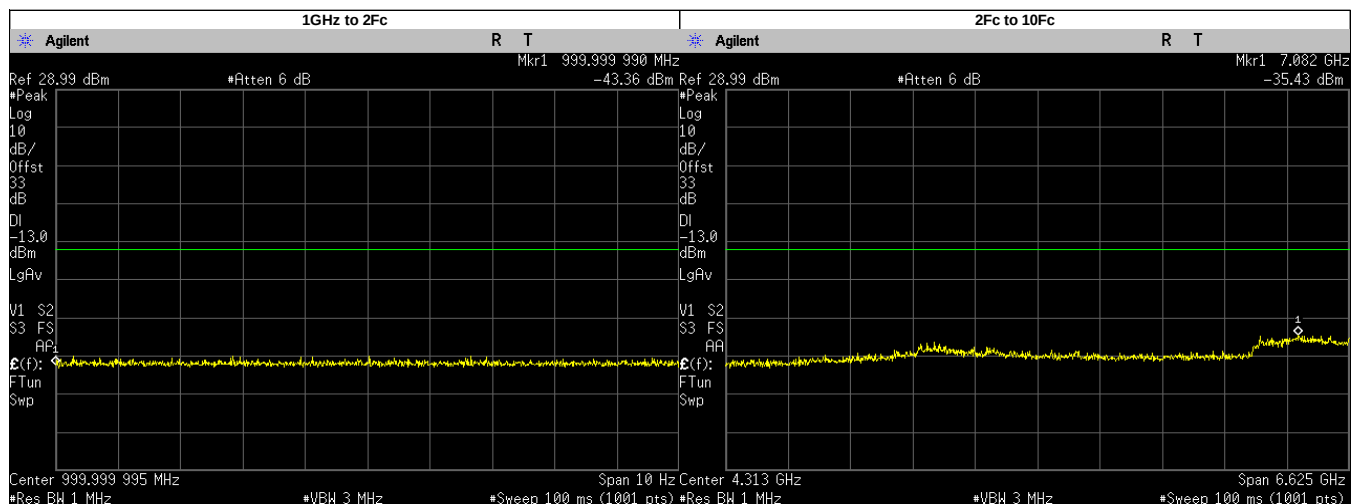
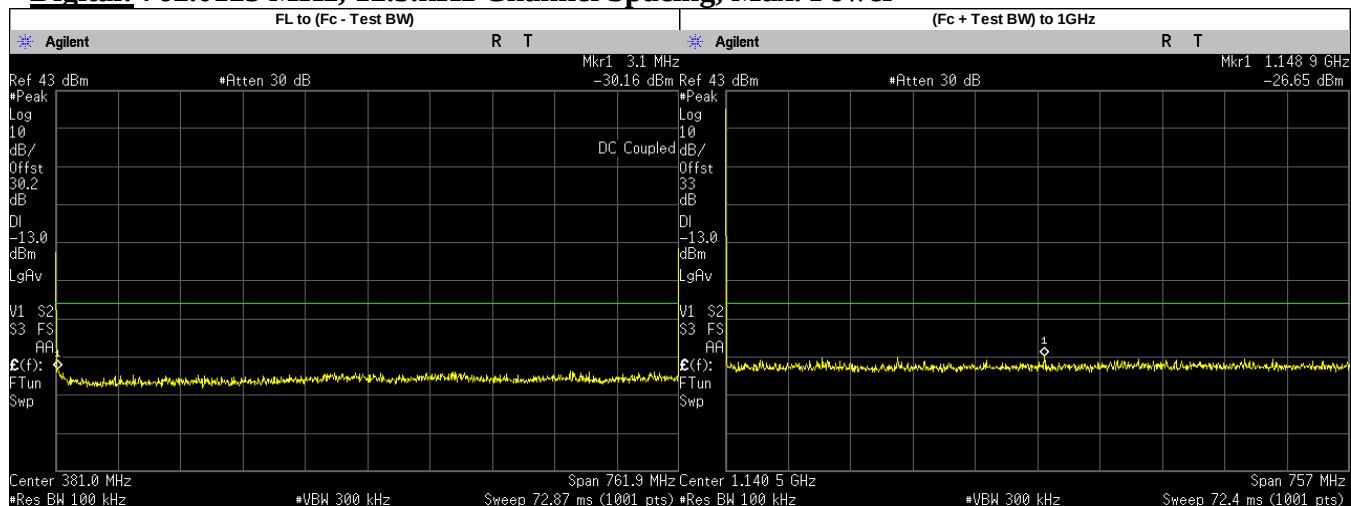


Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	3.9000	-40.26	-13	PASS
(Fc + Test BW) to <2Fc	911.2450	-35.65	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1243.1400	-52.08	-13	PASS
	7138.3240	-46.08	-13	PASS
	1609.8250	-52.99	-13	PASS
	2414.7380	-51.87	-13	PASS
	3219.6500	-49.19	-13	PASS
	4024.5620	-50.51	-13	PASS
	4829.4750	-51.17	-13	PASS
	5634.3870	-51.33	-13	PASS
	6439.3000	-51.11	-13	PASS
	7244.2120	-46.89	-13	PASS
	8049.1250	-48.29	-13	PASS

6.9.3. Test Result (Digital)

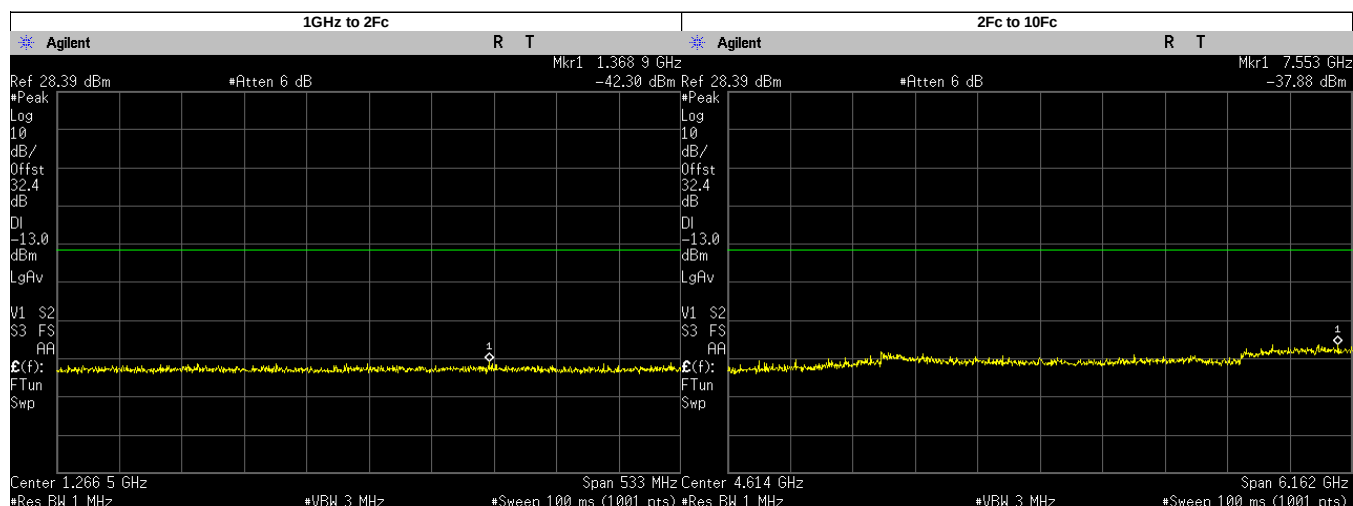
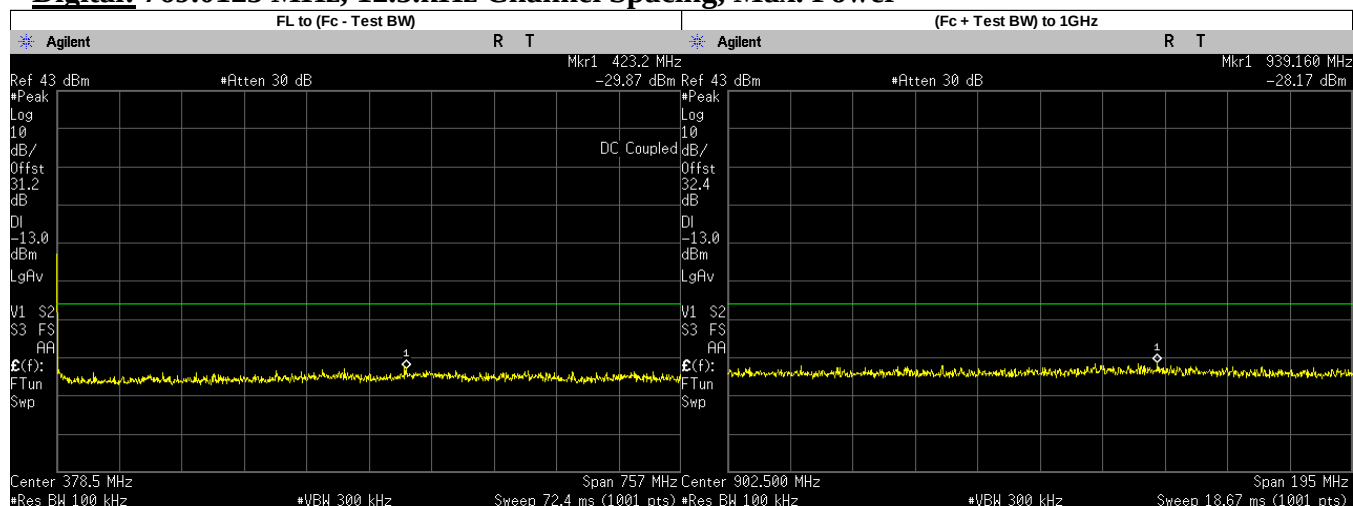
Not For FCC Review

Digital: 762.0125 MHz, 12.5.kHz Channel Spacing, Max. Power



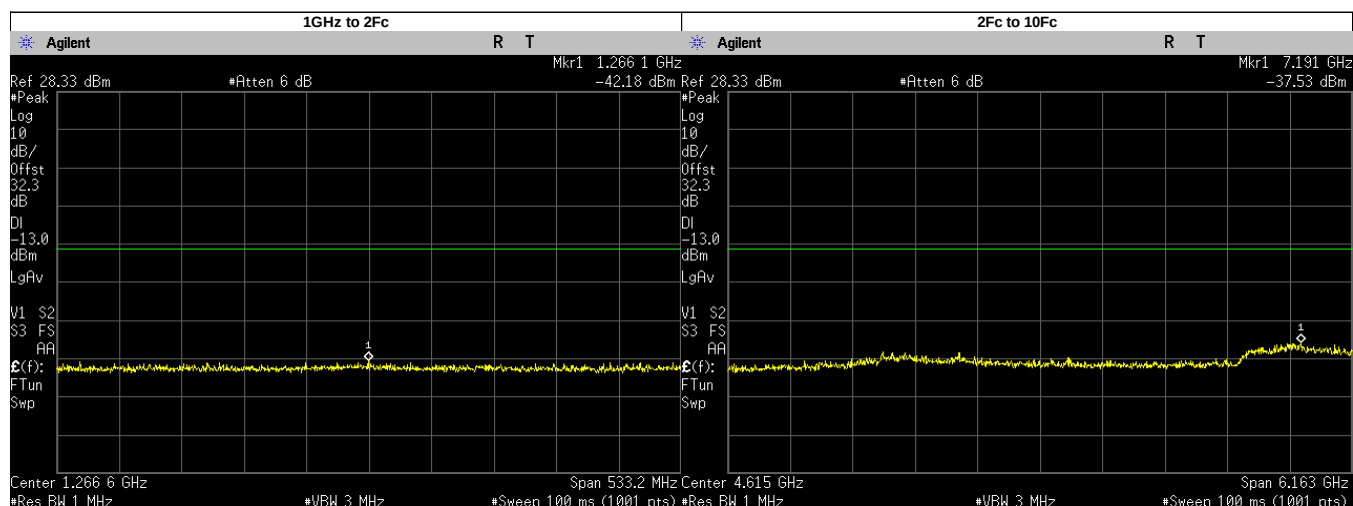
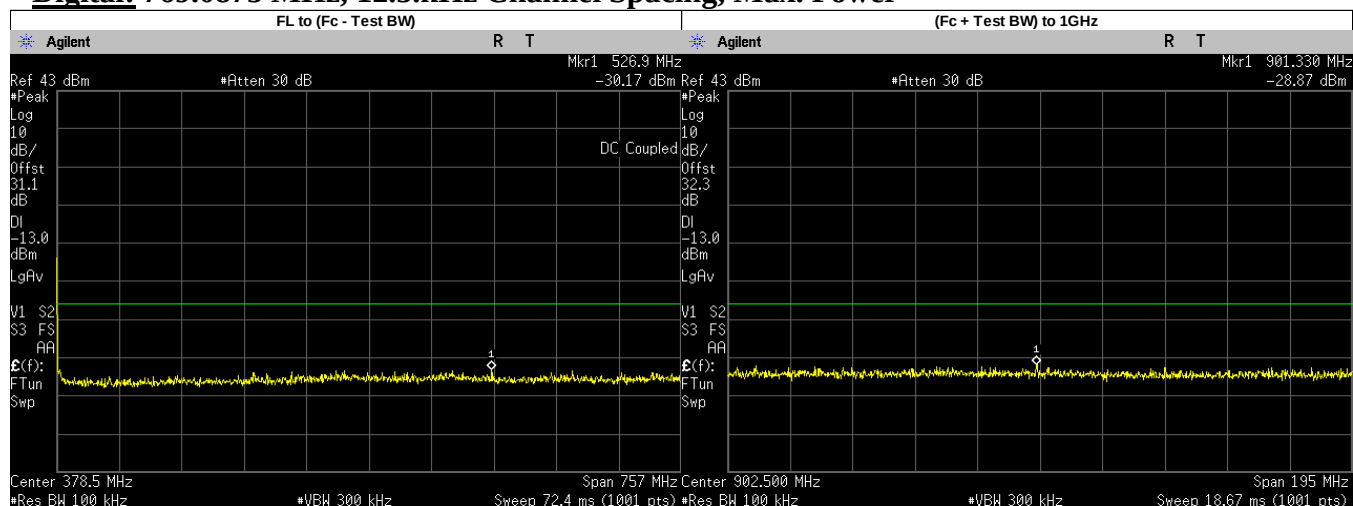
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	3.1000	-30.16	-13	PASS
(Fc + Test BW) to <2Fc	1148.8730	-26.64	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	999.9999	-43.36	-13	PASS
	7081.8650	-35.43	-13	PASS
	1524.0250	-43.22	-13	PASS
	2286.0370	-42.15	-13	PASS
	3048.0500	-38.71	-13	PASS
	3810.0620	-39.99	-13	PASS
	4572.0750	-40.98	-13	PASS
	5334.0870	-40.94	-13	PASS
	6096.1000	-40.68	-13	PASS
	6858.1130	-37.64	-13	PASS
	7620.1250	-36.43	-13	PASS

Digital: 769.0125 MHz, 12.5.kHz Channel Spacing, Max. Power



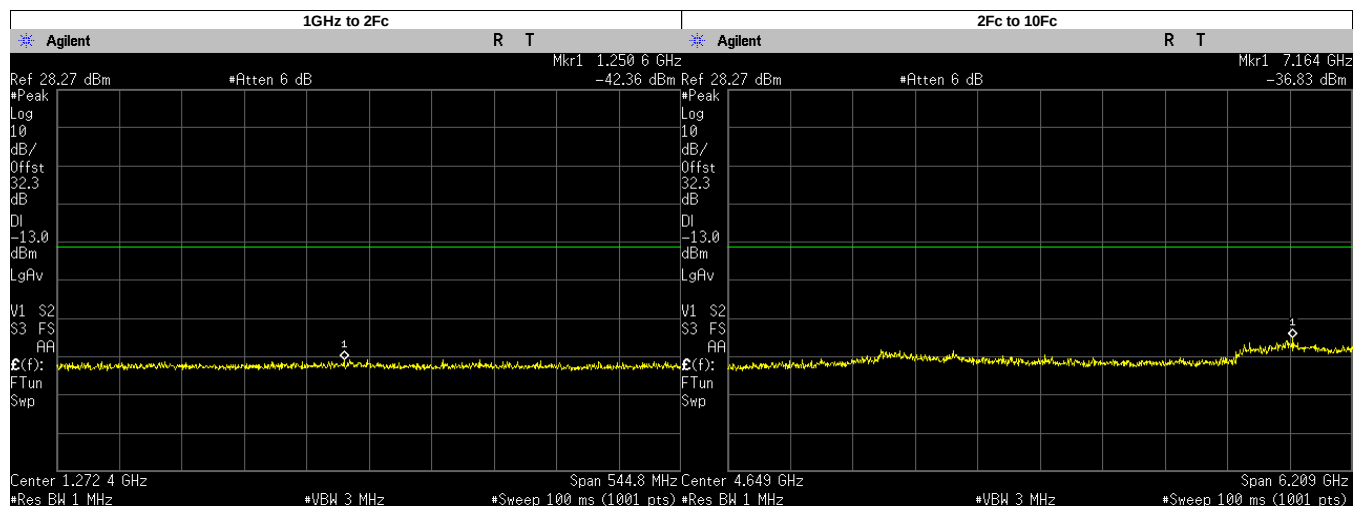
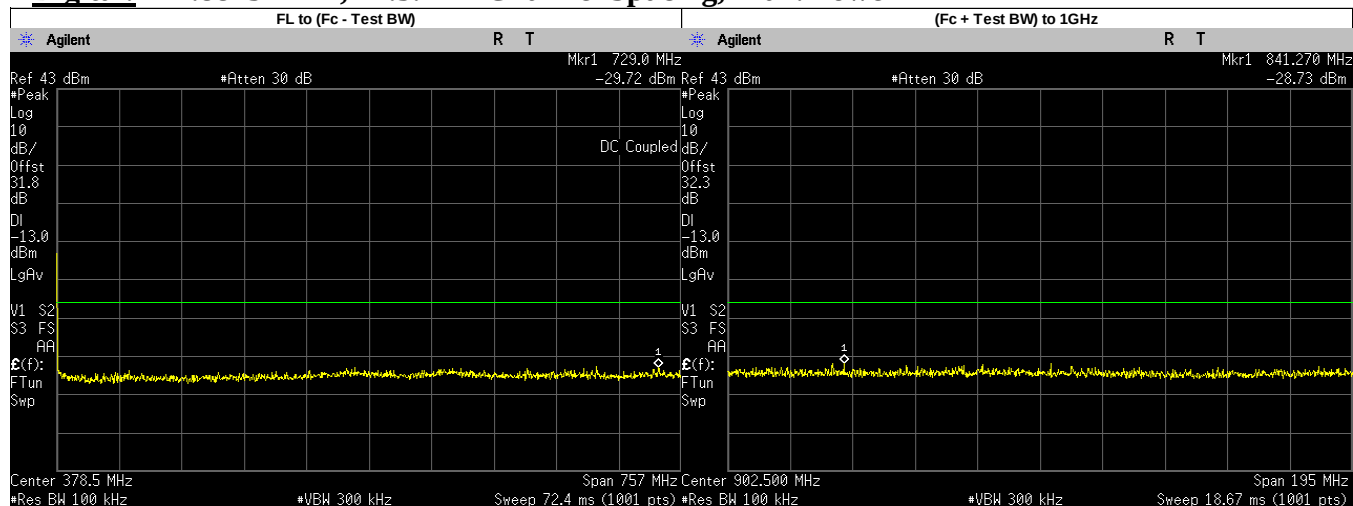
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	423.2000	-29.87	-13	PASS
(Fc + Test BW) to <2Fc	939.1600	-28.17	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1368.8530	-42.30	-13	PASS
	7553.3970	-37.88	-13	PASS
	1538.0250	-44.67	-13	PASS
	2307.0370	-44.08	-13	PASS
	3076.0500	-41.00	-13	PASS
	3845.0620	-42.82	-13	PASS
	4614.0750	-41.65	-13	PASS
	5383.0870	-42.45	-13	PASS
	6152.1000	-41.97	-13	PASS
	6921.1130	-39.39	-13	PASS
	7690.1250	-39.26	-13	PASS

Digital: 769.0875 MHz, 12.5.kHz Channel Spacing, Max. Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	526.9000	-30.17	-13	PASS
(Fc + Test BW) to <2Fc	901.3300	-28.87	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1266.0540	-42.18	-13	PASS
	7190.5340	-37.53	-13	PASS
	1538.1750	-44.53	-13	PASS
	2307.2620	-44.03	-13	PASS
	3076.3500	-41.44	-13	PASS
	3845.4370	-42.08	-13	PASS
	4614.5250	-42.78	-13	PASS
	5383.6130	-43.10	-13	PASS
	6152.7000	-43.31	-13	PASS
	6921.7880	-38.82	-13	PASS
	7690.8750	-39.87	-13	PASS

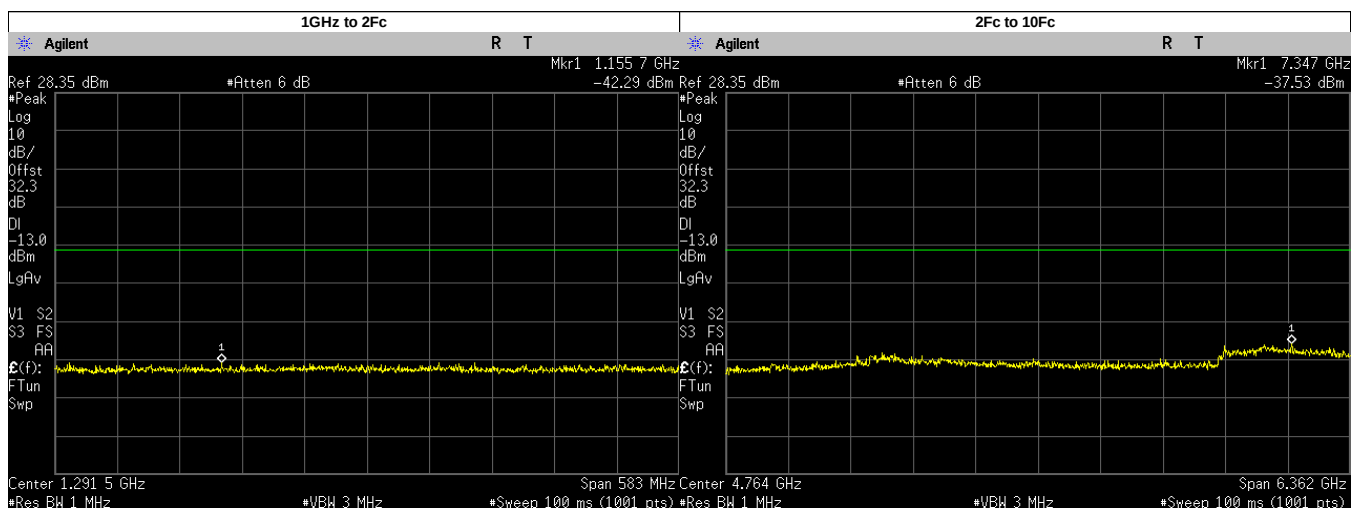
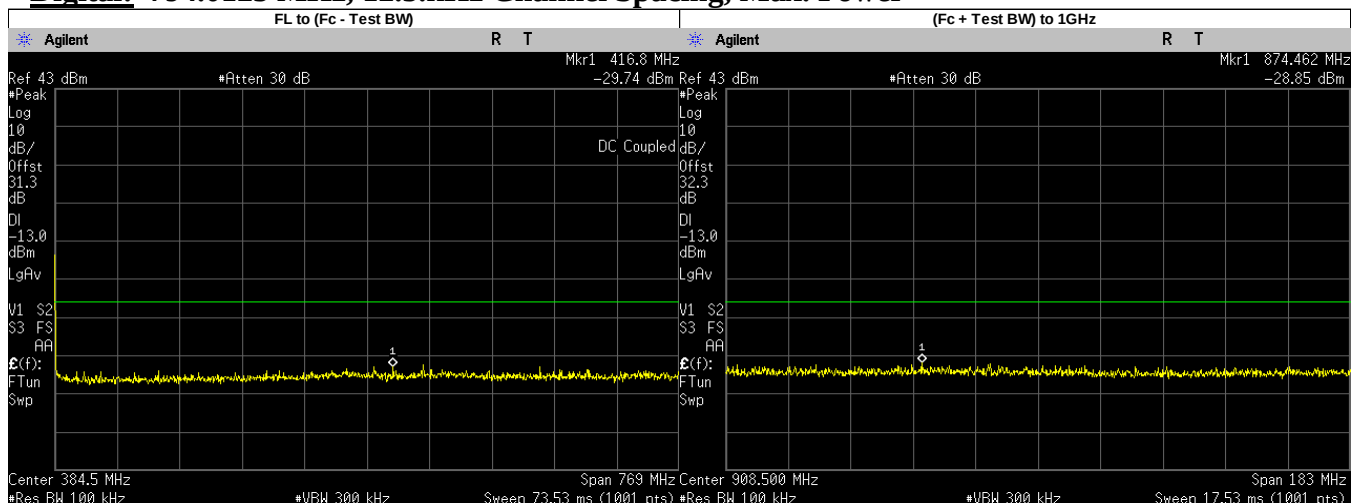
Digital: 774.8875 MHz, 12.5.kHz Channel Spacing, Max. Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	729.0000	-29.72	-13	PASS
(Fc + Test BW) to <2Fc	841.2700	-28.73	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1250.5970	-42.36	-13	PASS
	7164.0110	-36.84	-13	PASS
	1549.7750	-44.80	-13	PASS
	2324.6620	-44.09	-13	PASS
	3099.5500	-41.59	-13	PASS
	3874.4370	-42.77	-13	PASS
	4649.3250	-43.61	-13	PASS
	5424.2120	-43.54	-13	PASS
	6199.1000	-43.88	-13	PASS
	6973.9880	-39.48	-13	PASS
	7748.8750	-40.15	-13	PASS

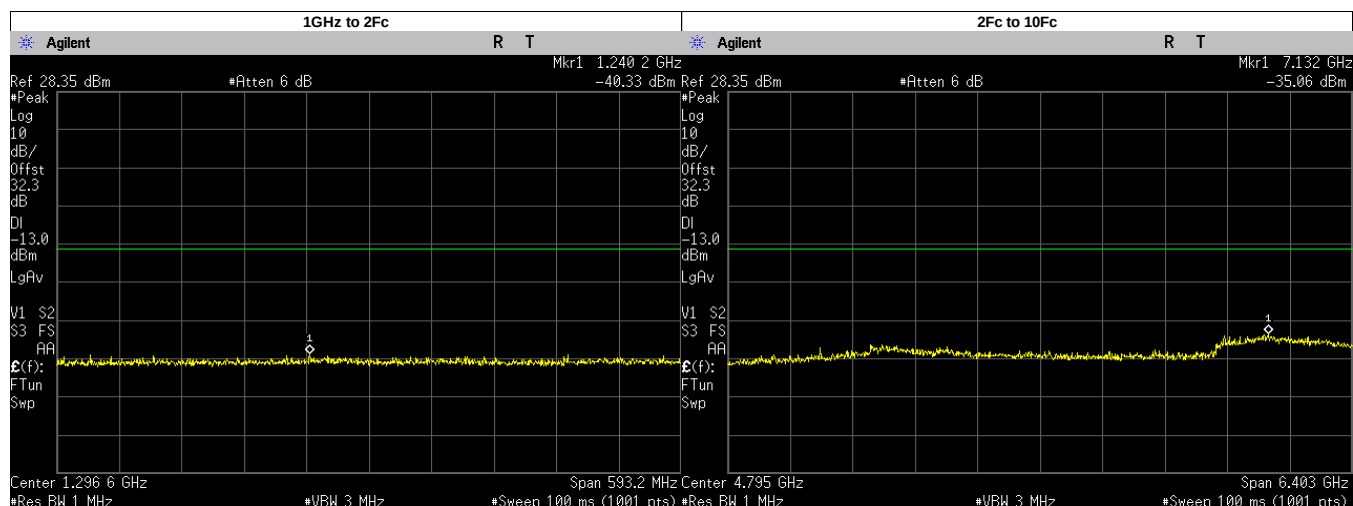
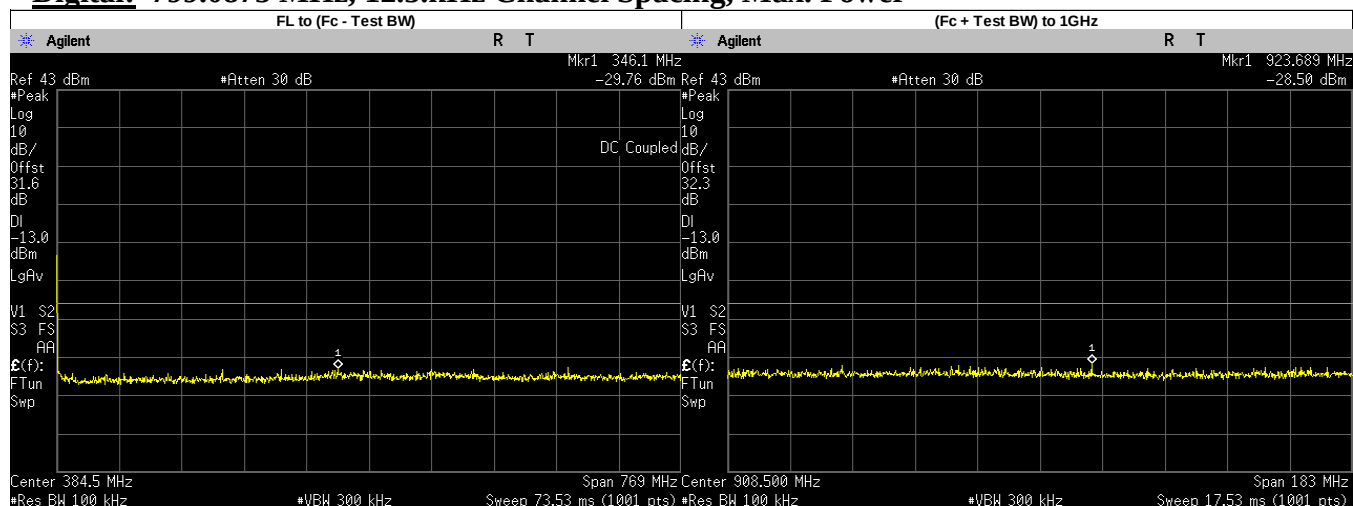
Not For FCC Review

Digital: 794.0125 MHz, 12.5.kHz Channel Spacing, Max. Power



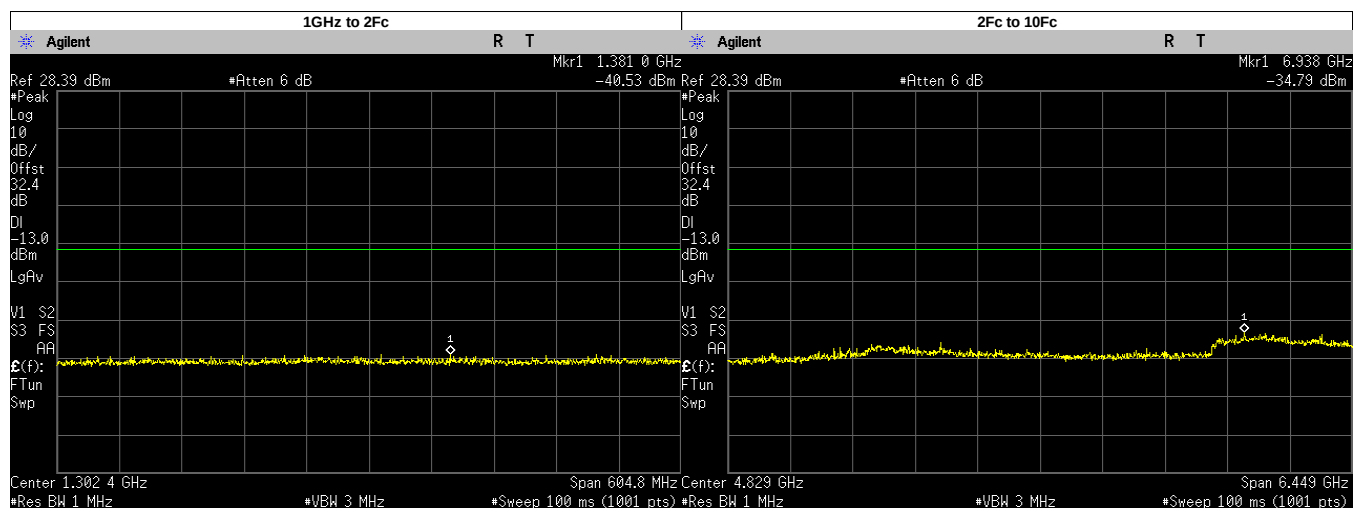
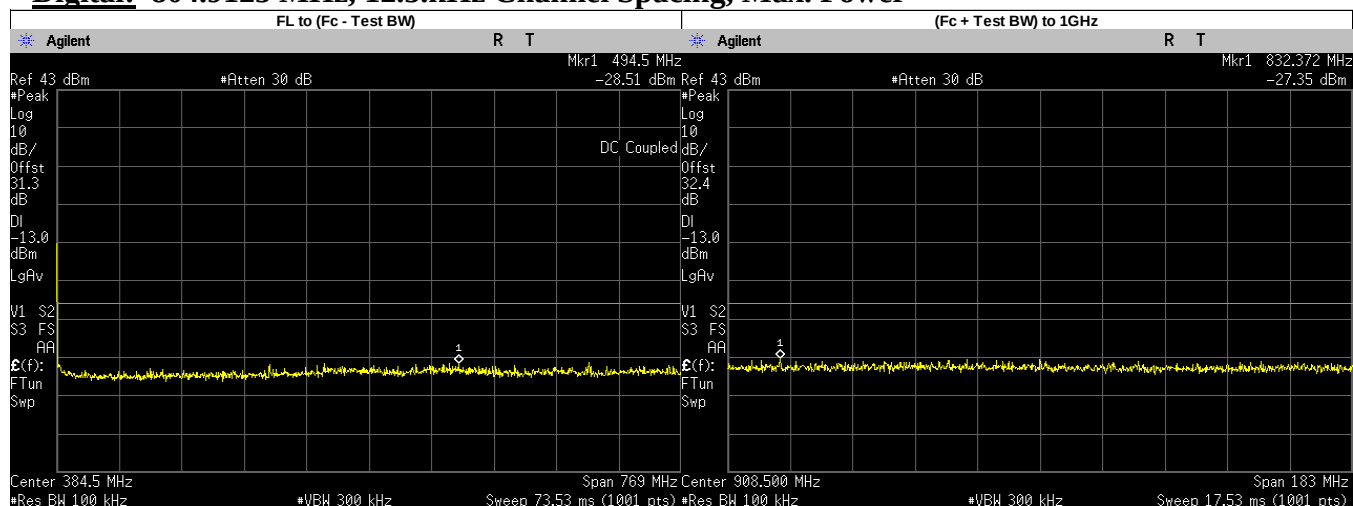
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	416.8000	-29.74	-13	PASS
(Fc + Test BW) to <2Fc	874.4620	-28.85	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1155.6680	-42.29	-13	PASS
	7347.0880	-37.53	-13	PASS
	1588.0250	-45.33	-13	PASS
	2382.0370	-43.20	-13	PASS
	3176.0500	-40.86	-13	PASS
	3970.0620	-42.50	-13	PASS
	4764.0750	-42.98	-13	PASS
	5558.0870	-43.58	-13	PASS
	6352.1000	-42.67	-13	PASS
	7146.1130	-38.50	-13	PASS
	7940.1250	-40.69	-13	PASS

Digital: 799.0875 MHz, 12.5.kHz Channel Spacing, Max. Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	346.1000	-29.76	-13	PASS
(Fc + Test BW) to <2Fc	923.6890	-28.50	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1240.2360	-40.33	-13	PASS
	7131.5110	-35.06	-13	PASS
	1598.1750	-43.19	-13	PASS
	2397.2620	-41.69	-13	PASS
	3196.3500	-39.35	-13	PASS
	3995.4370	-40.14	-13	PASS
	4794.5250	-40.47	-13	PASS
	5593.6130	-40.83	-13	PASS
	6392.7000	-40.71	-13	PASS
	7191.7880	-36.12	-13	PASS
	7990.8750	-38.10	-13	PASS

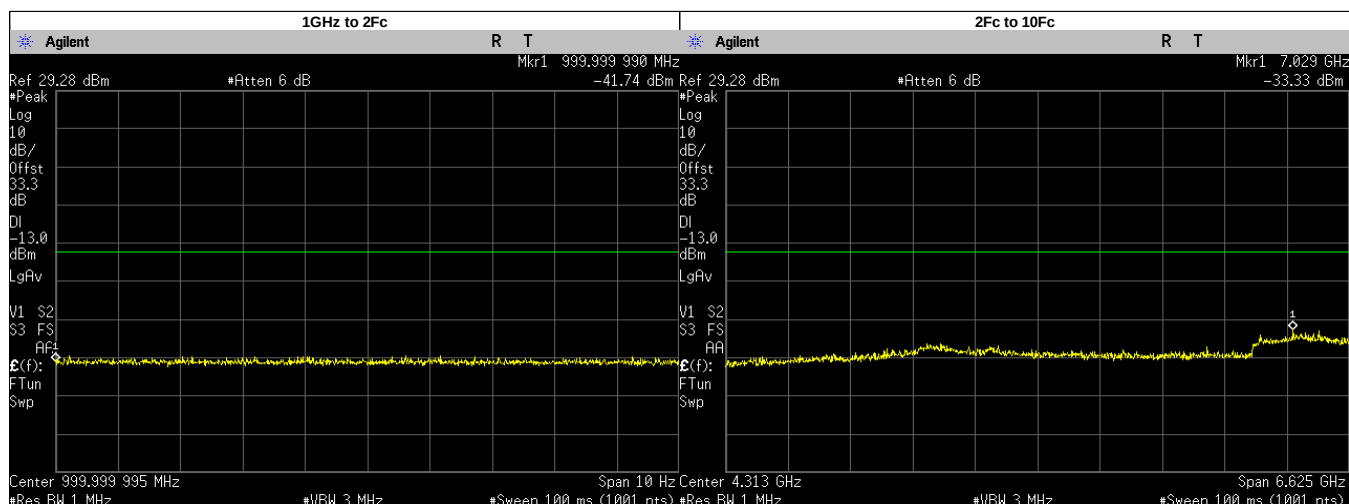
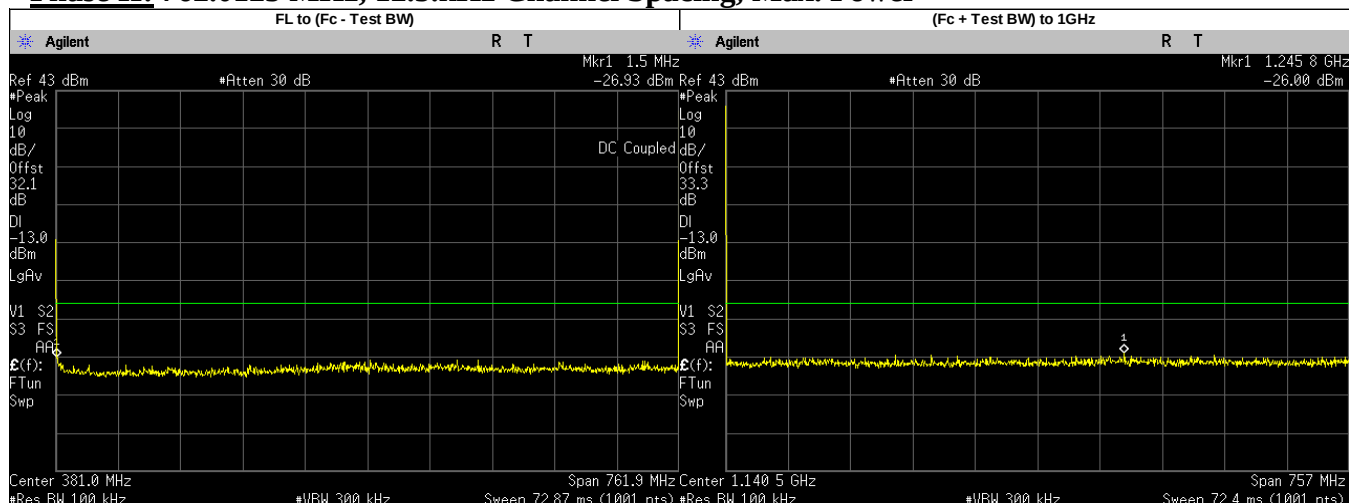
Digital: 804.9125 MHz, 12.5.kHz Channel Spacing, Max. Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	494.5000	-28.52	-13	PASS
(Fc + Test BW) to <2Fc	832.3720	-27.35	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1381.0400	-40.53	-13	PASS
	6938.3960	-34.79	-13	PASS
	1609.8250	-42.06	-13	PASS
	2414.7380	-42.11	-13	PASS
	3219.6500	-39.18	-13	PASS
	4024.5620	-40.17	-13	PASS
	4829.4750	-40.14	-13	PASS
	5634.3870	-40.48	-13	PASS
	6439.3000	-40.65	-13	PASS
	7244.2120	-36.22	-13	PASS
	8049.1250	-38.22	-13	PASS

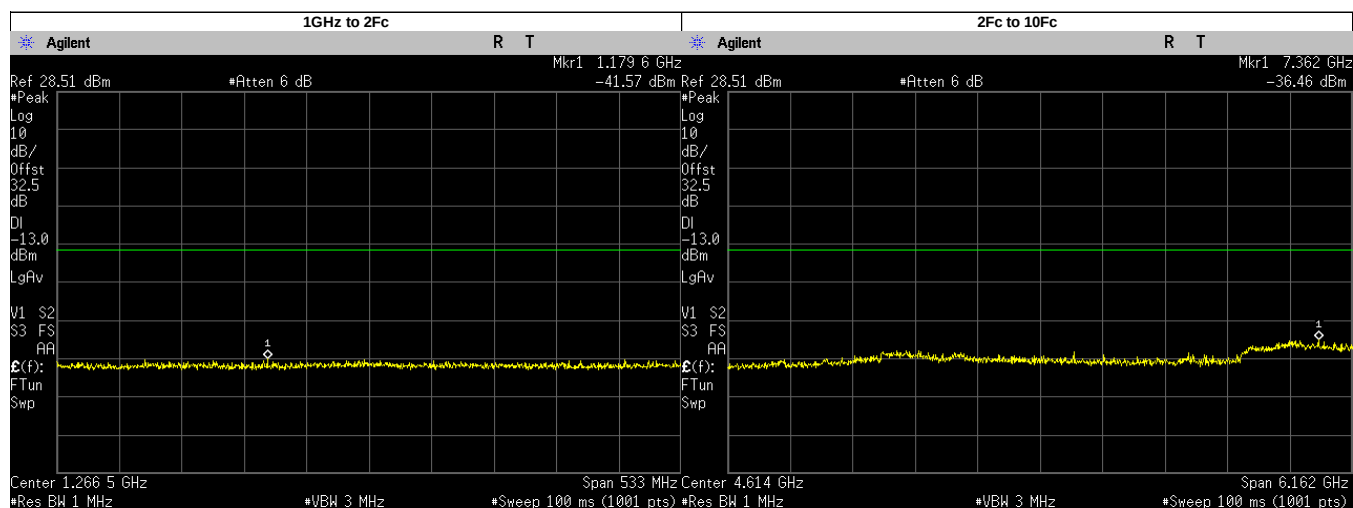
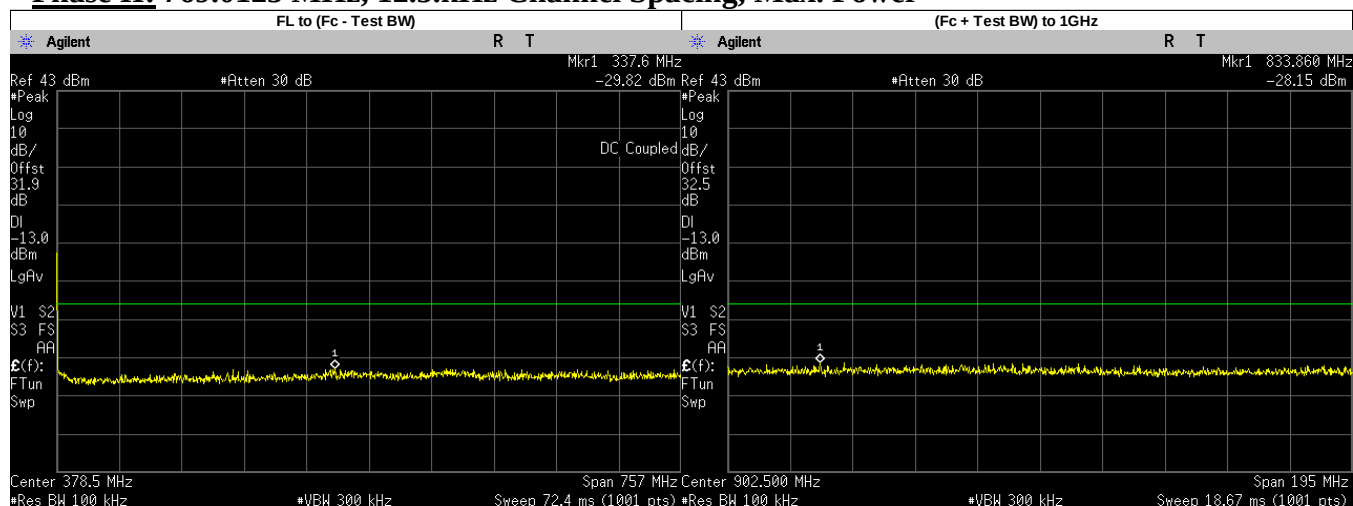
Not For FCC Review

Phase II: 762.0125 MHz, 12.5.kHz Channel Spacing, Max. Power



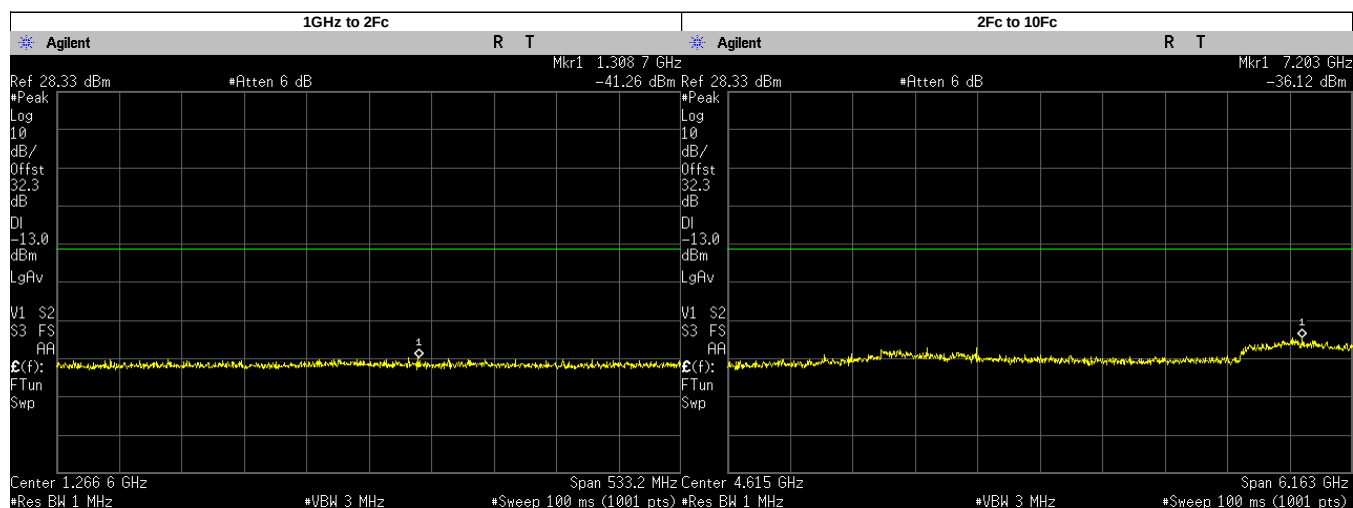
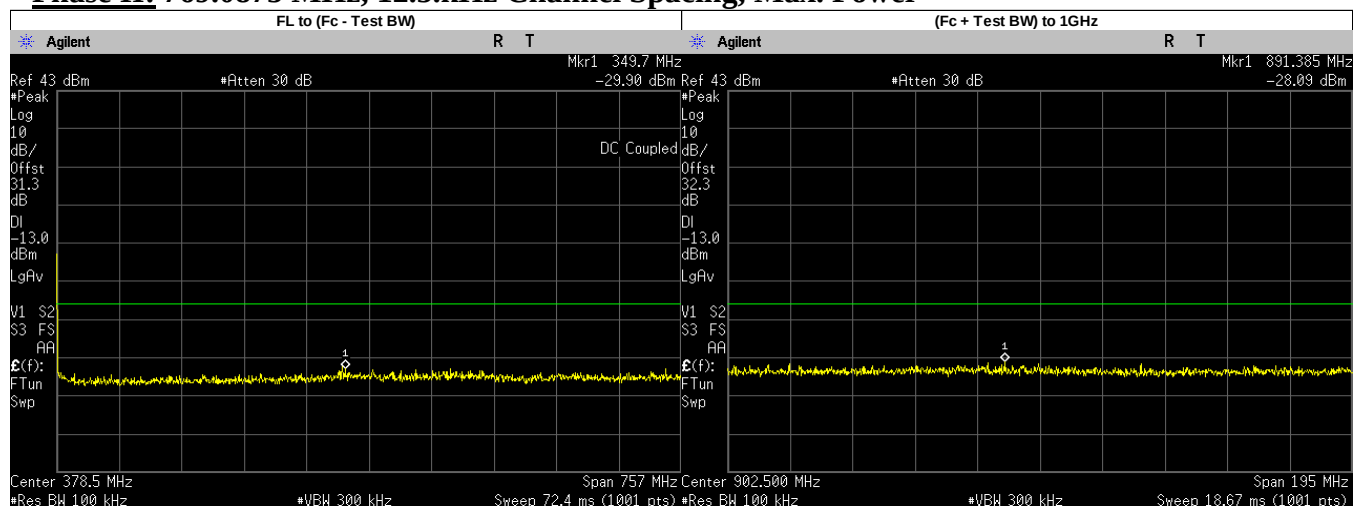
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	1.5000	-26.93	-13	PASS
(Fc + Test BW) to <2Fc	1245.7640	-26.00	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	999.9999	-27.07	-13	PASS
	7028.8640	-33.33	-13	PASS
	1524.0250	-41.32	-13	PASS
	2286.0370	-41.39	-13	PASS
	3048.0500	-38.45	-13	PASS
	3810.0620	-37.81	-13	PASS
	4572.0750	-40.03	-13	PASS
	5334.0870	-40.69	-13	PASS
	6096.1000	-40.03	-13	PASS
	6858.1130	-36.34	-13	PASS
	7620.1250	-36.75	-13	PASS

Phase II: 769.0125 MHz, 12.5.kHz Channel Spacing, Max. Power



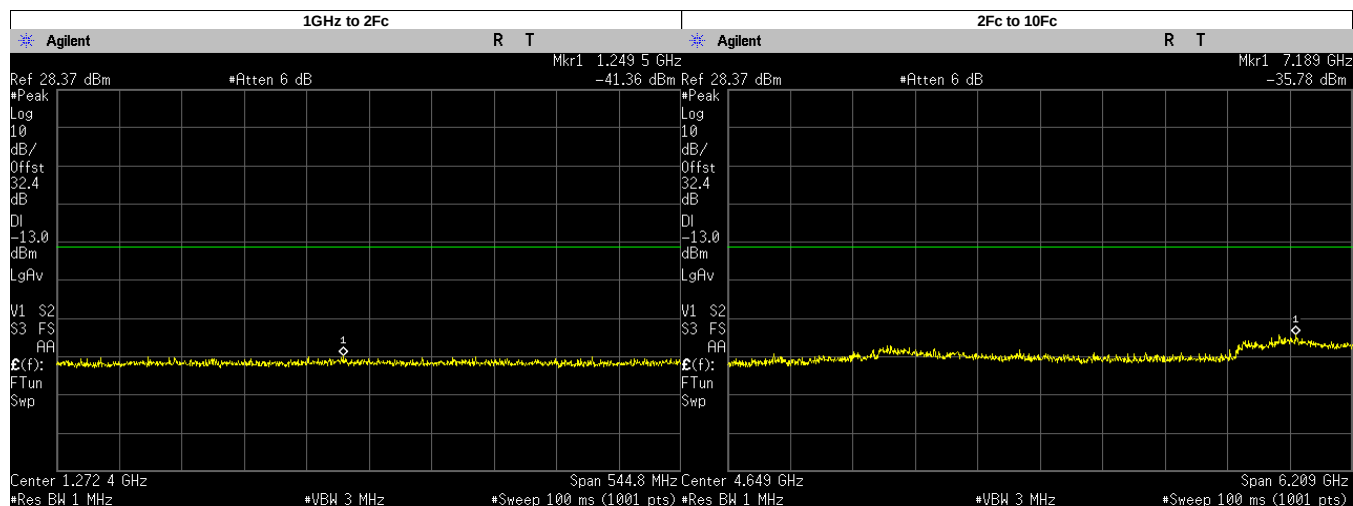
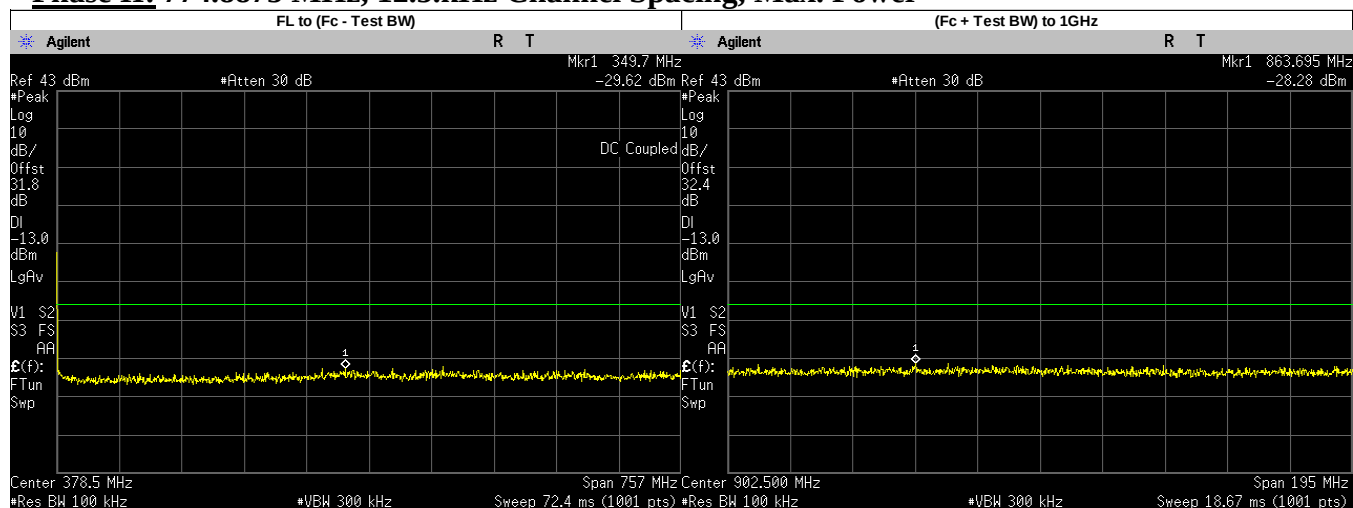
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	337.6000	-29.82	-13	PASS
(Fc + Test BW) to <2Fc	833.8600	-28.15	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1179.6290	-41.57	-13	PASS
	7362.3720	-36.46	-13	PASS
	1538.0250	-43.75	-13	PASS
	2307.0370	-43.01	-13	PASS
	3076.0500	-40.21	-13	PASS
	3845.0620	-40.63	-13	PASS
	4614.0750	-41.58	-13	PASS
	5383.0870	-42.58	-13	PASS
	6152.1000	-42.37	-13	PASS
	6921.1130	-38.65	-13	PASS
	7690.1250	-38.12	-13	PASS

Phase II: 769.0875 MHz, 12.5.kHz Channel Spacing, Max. Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	349.7000	-29.90	-13	PASS
(Fc + Test BW) to <2Fc	891.3850	-28.09	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1308.7080	-41.26	-13	PASS
	7202.8590	-36.12	-13	PASS
	1538.1750	-43.24	-13	PASS
	2307.2620	-43.38	-13	PASS
	3076.3500	-40.06	-13	PASS
	3845.4370	-41.08	-13	PASS
	4614.5250	-42.58	-13	PASS
	5383.6130	-42.33	-13	PASS
	6152.7000	-42.56	-13	PASS
	6921.7880	-38.42	-13	PASS
	7690.8750	-38.10	-13	PASS

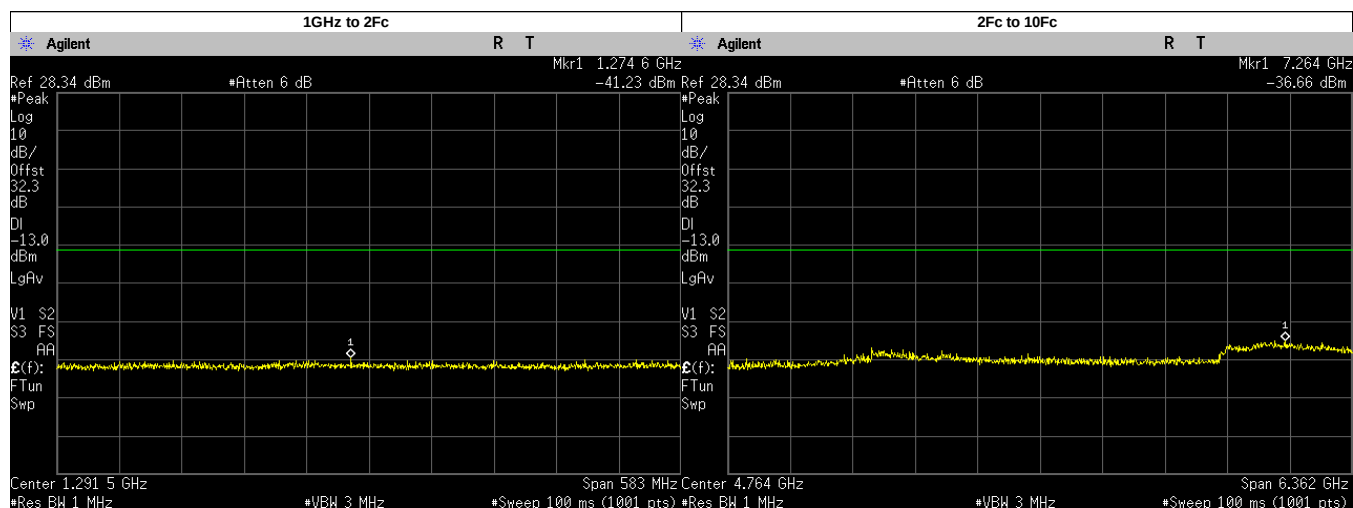
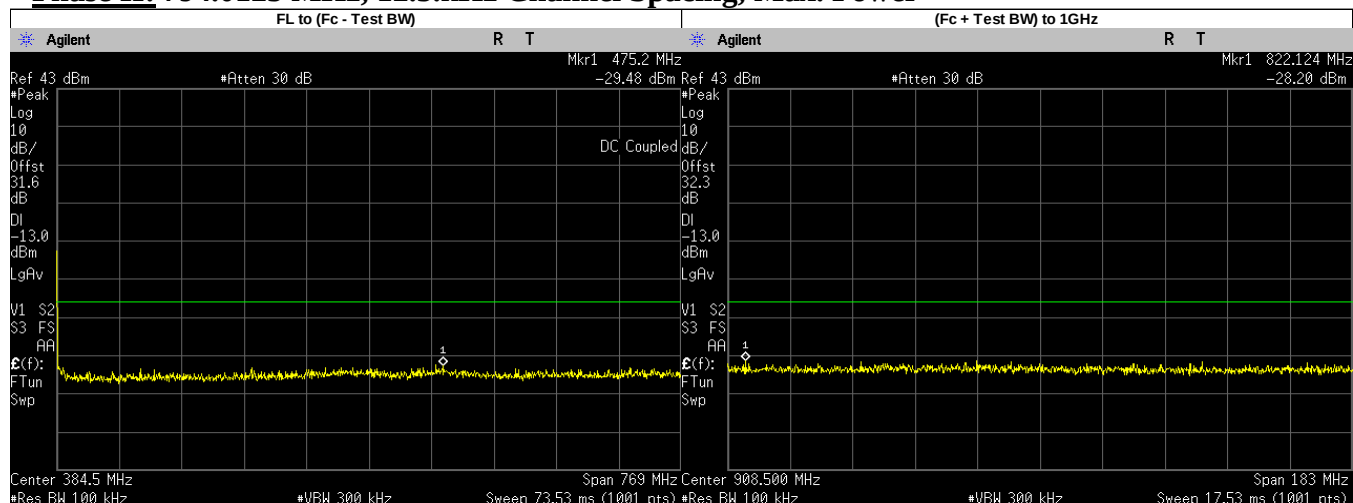
Phase II: 774.8875 MHz, 12.5.kHz Channel Spacing, Max. Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	349.7000	-29.62	-13	PASS
(Fc + Test BW) to <2Fc	863.6950	-28.28	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1249.5070	-41.36	-13	PASS
	7188.8470	-35.78	-13	PASS
	1549.7750	-43.48	-13	PASS
	2324.6620	-43.36	-13	PASS
	3099.5500	-40.59	-13	PASS
	3874.4370	-41.26	-13	PASS
	4649.3250	-41.88	-13	PASS
	5424.2120	-42.50	-13	PASS
	6199.1000	-42.58	-13	PASS
	6973.9880	-38.71	-13	PASS
	7748.8750	-39.09	-13	PASS

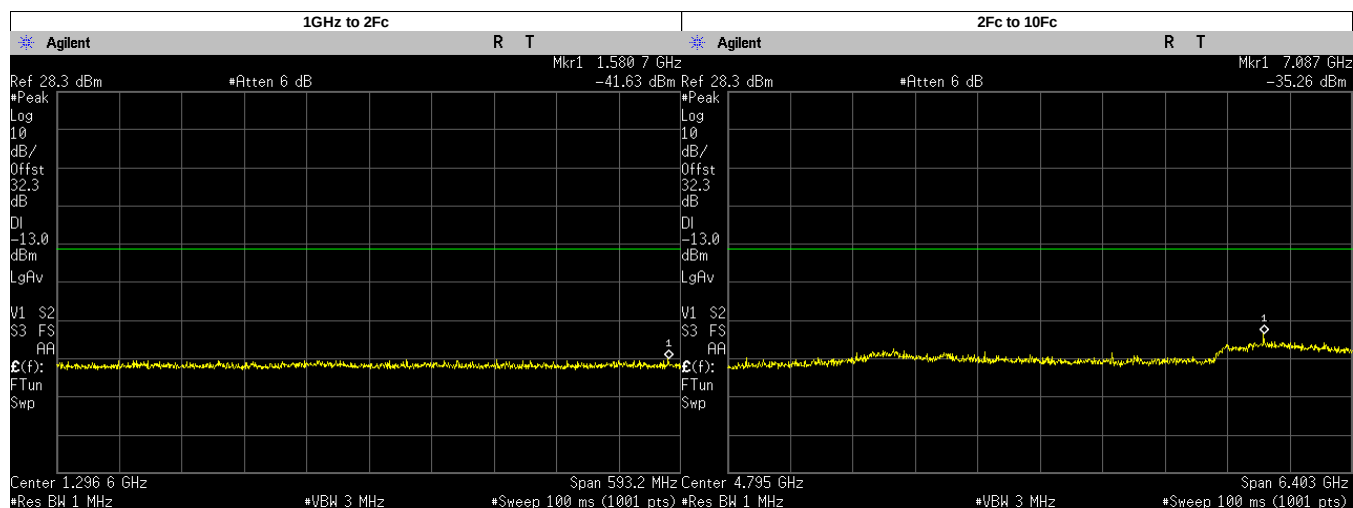
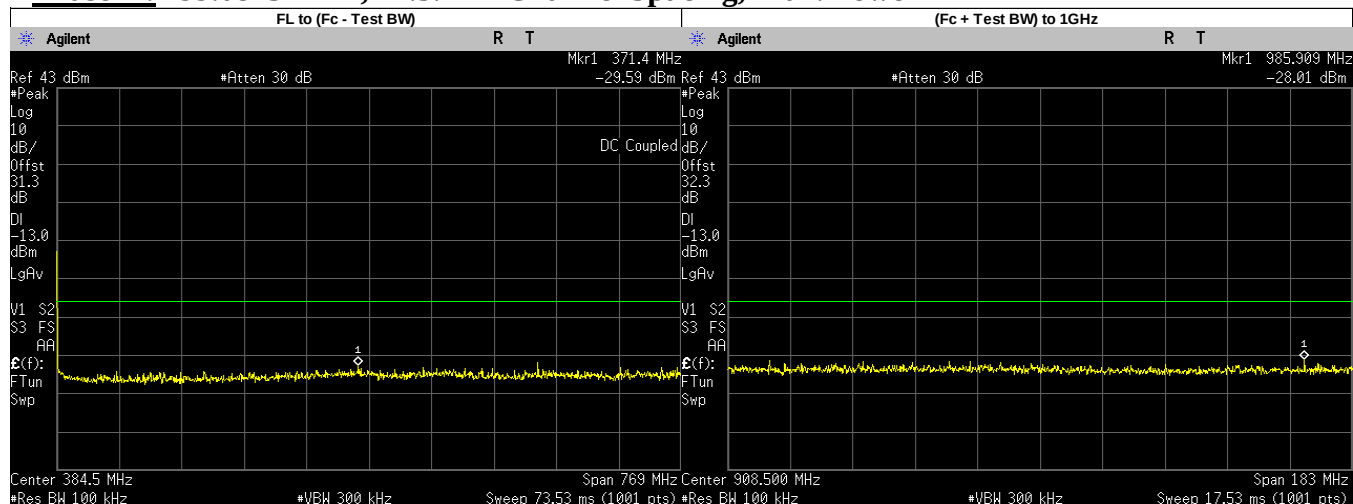
Not For FCC Review

Phase II: 794.0125 MHz, 12.5.kHz Channel Spacing, Max. Power



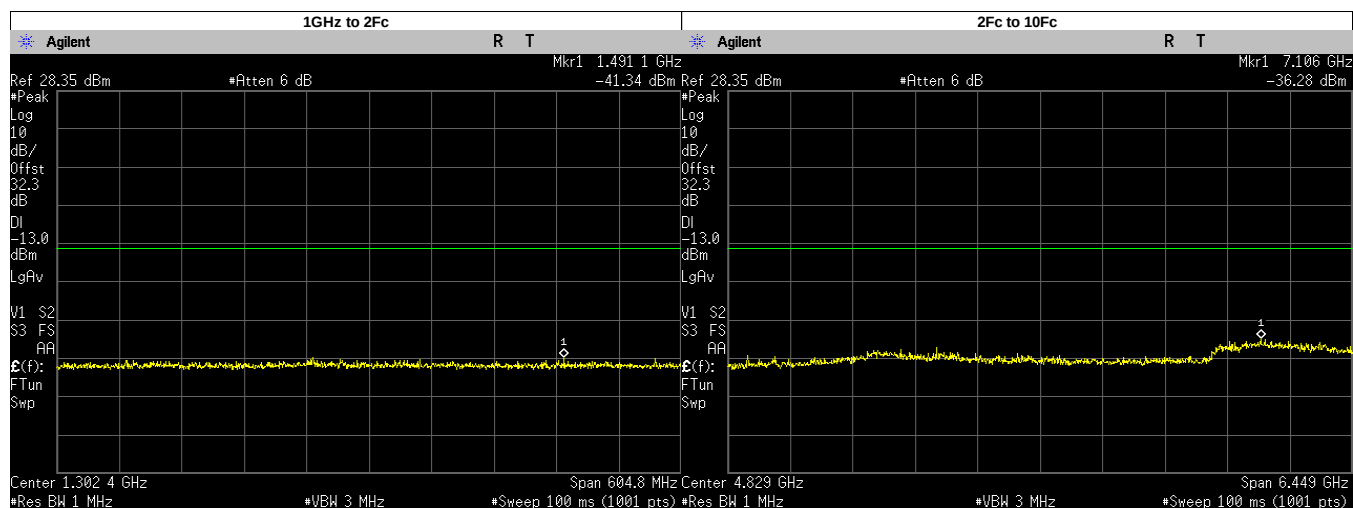
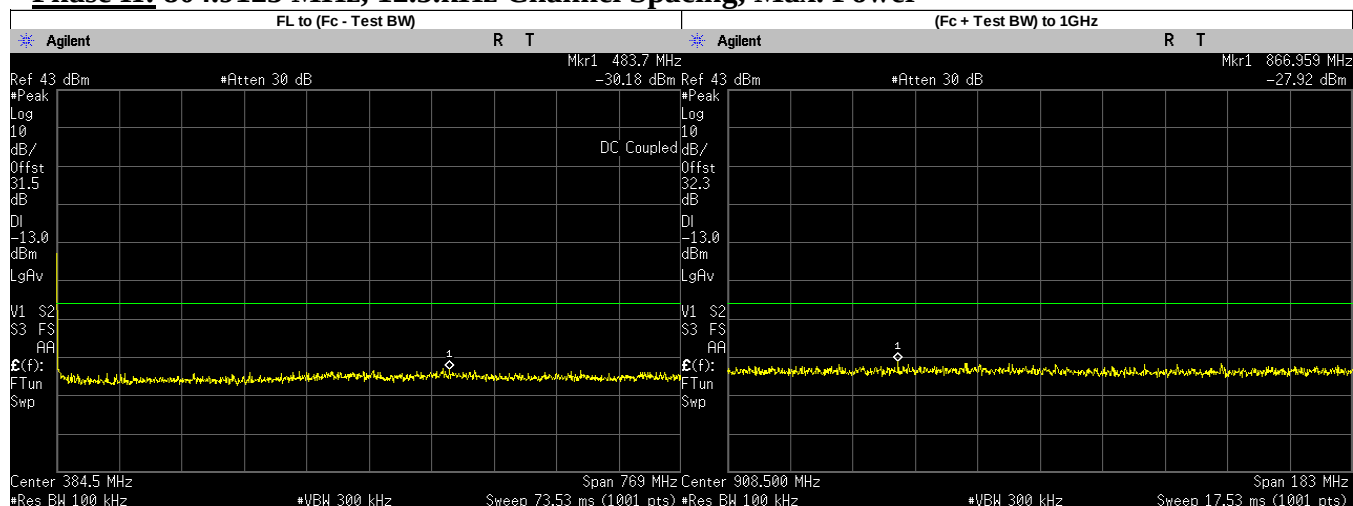
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	475.2000	-29.48	-13	PASS
(Fc + Test BW) to <2Fc	822.1240	-28.20	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1274.6050	-41.23	-13	PASS
	7264.3800	-36.66	-13	PASS
	1588.0250	-43.75	-13	PASS
	2382.0370	-43.11	-13	PASS
	3176.0500	-39.64	-13	PASS
	3970.0620	-41.13	-13	PASS
	4764.0750	-40.87	-13	PASS
	5558.0870	-41.99	-13	PASS
	6352.1000	-42.50	-13	PASS
	7146.1130	-38.27	-13	PASS
	7940.1250	-39.83	-13	PASS

Phase II: 799.0875 MHz, 12.5.kHz Channel Spacing, Max. Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	371.4000	-29.59	-13	PASS
(Fc + Test BW) to <2Fc	985.9090	-28.01	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1580.7180	-41.63	-13	PASS
	7086.6920	-35.26	-13	PASS
	1598.1750	-44.06	-13	PASS
	2397.2620	-43.13	-13	PASS
	3196.3500	-40.73	-13	PASS
	3995.4370	-42.02	-13	PASS
	4794.5250	-42.23	-13	PASS
	5593.6130	-42.34	-13	PASS
	6392.7000	-42.34	-13	PASS
	7191.7880	-38.54	-13	PASS
	7990.8750	-39.75	-13	PASS

Phase II: 804.9125 MHz, 12.5.kHz Channel Spacing, Max. Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	483.7000	-30.18	-13	PASS
(Fc + Test BW) to <2Fc	866.9590	-27.92	-13	PASS
2Fc to 1GHz 1GHz to 10Fc	1491.1180	-41.34	-13	PASS
	7106.0780	-36.28	-13	PASS
	1609.8250	-43.27	-13	PASS
	2414.7380	-43.10	-13	PASS
	3219.6500	-40.40	-13	PASS
	4024.5620	-41.29	-13	PASS
	4829.4750	-42.57	-13	PASS
	5634.3870	-42.22	-13	PASS
	6439.3000	-42.03	-13	PASS
	7244.2120	-38.48	-13	PASS
	8049.1250	-39.61	-13	PASS

6.9.4. Test Limit

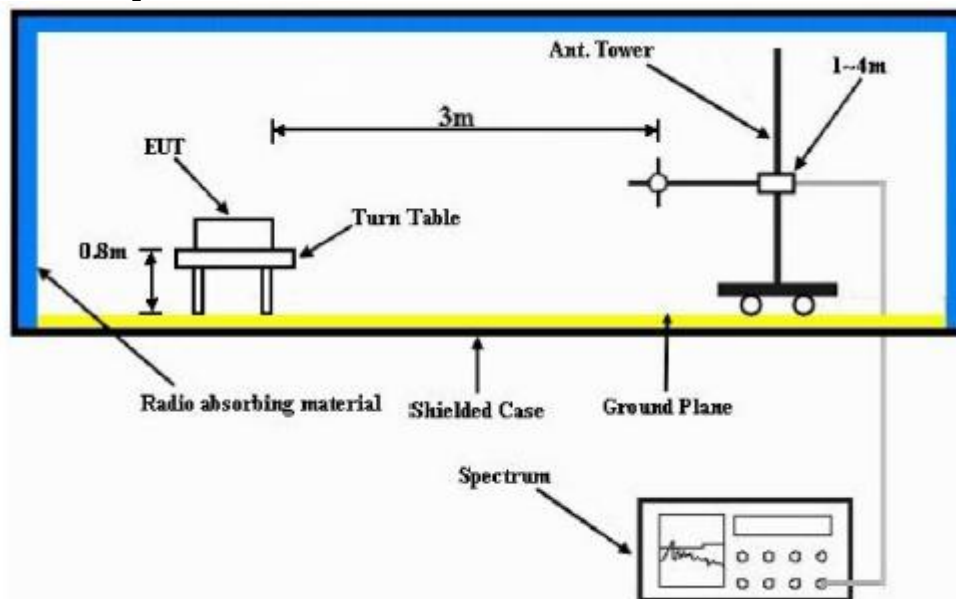
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

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)

6.10. Radiated Spurious Emission

6.10.1. Test Setup

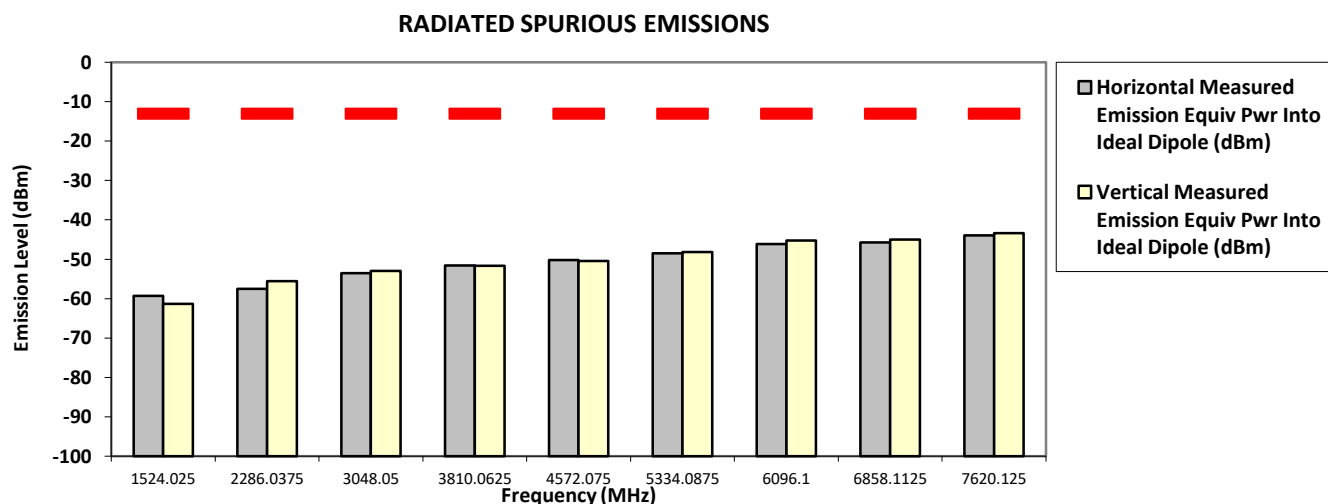


- 1) The Resolution Bandwidth for scanning Radiated Emission below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector mode is positive peak.
- 2) In the semi- anechoic chamber, setup as illustrated above the DUT placed 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.

6.10.2. Test Result (Analog)

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX Analog
762.012500 MHz 12.5 kHz 2.990 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)
1524.0250	-13.0000	-59.2986 **	-61.2922 **
2286.0375	-13.0000	-57.4761 **	-55.5731 **
3048.0500	-13.0000	-53.5154 **	-52.9404 **
3810.0625	-13.0000	-51.5481 **	-51.6930 **
4572.0750	-13.0000	-50.2138 **	-50.4700 **
5334.0875	-13.0000	-48.4687 **	-48.1589 **
6096.1000	-13.0000	-46.1253 **	-45.2446 **
6858.1125	-13.0000	-45.7128 **	-45.0334 **
7620.1250	-13.0000	-43.9500 **	-43.3579 **



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: Qawiman&Nazrin Sat, 24 Dec, 2022

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): 23.9 Hum(%RH): 70.3

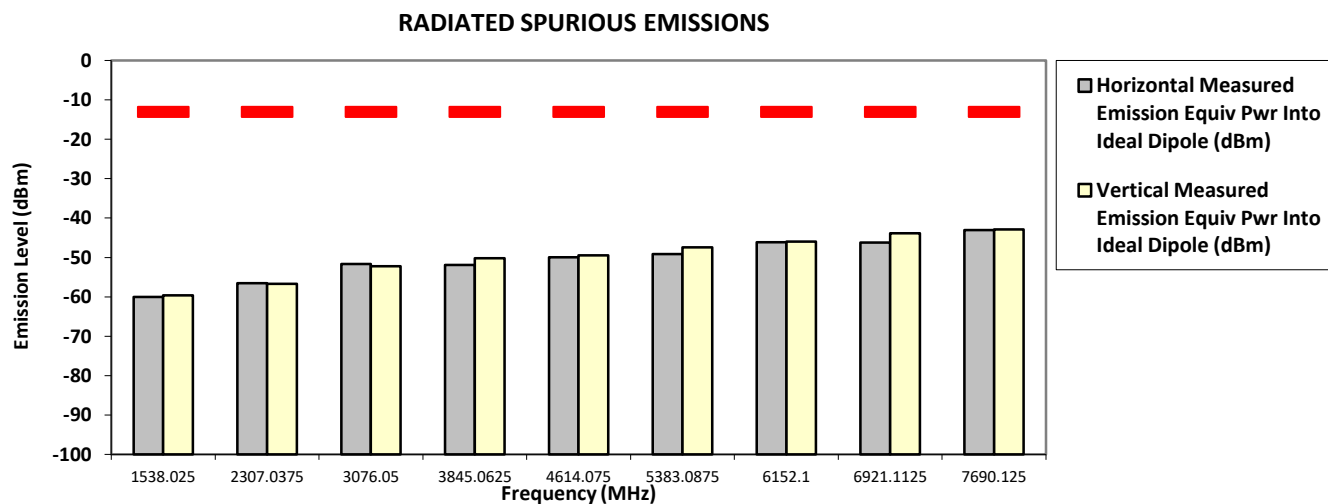
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Test Mode: TX Analog Accy Part No: NA
769.012500 MHz 12.5 kHz 2.200 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)
1538.0250	-13.0000	-60.0030 **	-59.6449 **
2307.0375	-13.0000	-56.5347 **	-56.7049 **
3076.0500	-13.0000	-51.6715 **	-52.2503 **
3845.0625	-13.0000	-51.9123 **	-50.1999 **
4614.0750	-13.0000	-49.9201 **	-49.4542 **
5383.0875	-13.0000	-49.1167 **	-47.4679 **
6152.1000	-13.0000	-46.1466 **	-45.9831 **
6921.1125	-13.0000	-46.1985 **	-43.8794 **
7690.1250	-13.0000	-43.0535 **	-42.8572 **



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: Qawiman&Nazrin Sat, 24 Dec, 2022

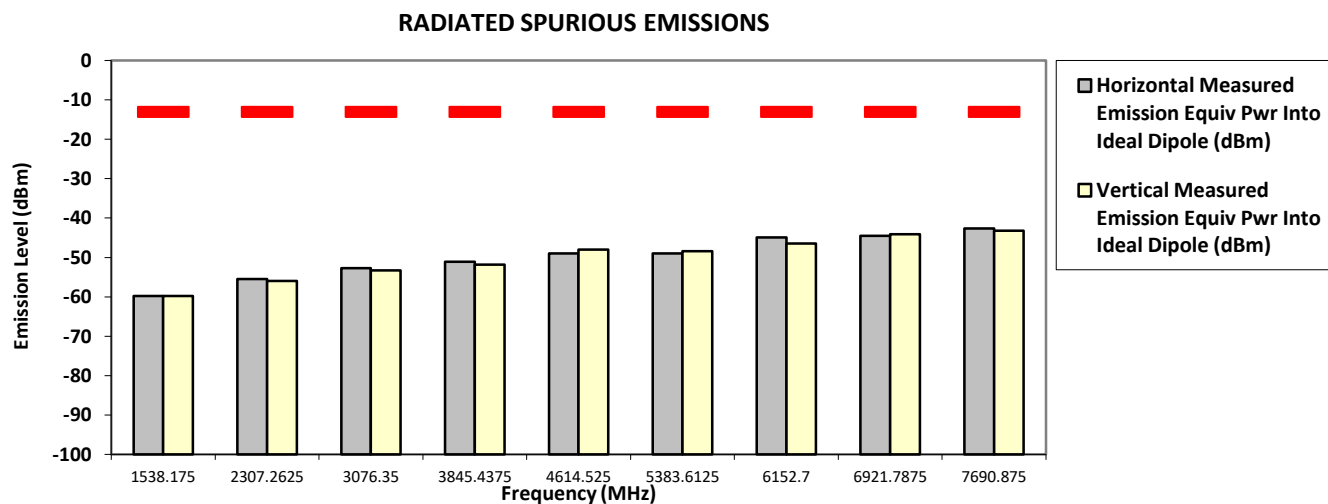
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.9 Hum(%RH): 70.3

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Test Mode: TX Analog Accy Part No: NA
769.087500 MHz 12.5 kHz 2.990 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)
1538.1750	-13.0000	-59.7505 **	-59.7845 **
2307.2625	-13.0000	-55.5116 **	-55.9713 **
3076.3500	-13.0000	-52.6845 **	-53.3204 **
3845.4375	-13.0000	-51.0635 **	-51.8353 **
4614.5250	-13.0000	-48.9462 **	-48.0121 **
5383.6125	-13.0000	-48.9886 **	-48.4217 **
6152.7000	-13.0000	-44.8818 **	-46.4951 **
6921.7875	-13.0000	-44.5222 **	-44.1085 **
7690.8750	-13.0000	-42.6740 **	-43.2221 **



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: Qawiman&Nazrin Sat, 24 Dec, 2022

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): 23.9 Hum(%RH): 70.3

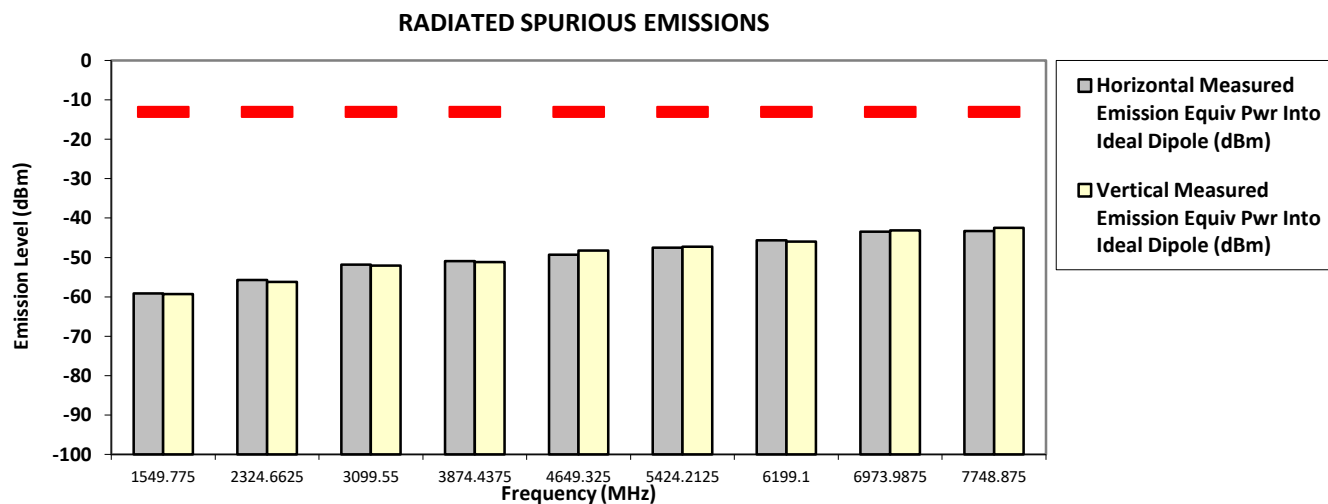
Remarks:

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

SAC Transmitter Radiated Emission:

Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Test Mode: TX Analog Accy Part No: NA
774.887500 MHz 12.5 kHz 2.990 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)
1549.7750	-13.0000	-59.1135 **	-59.2660 **
2324.6625	-13.0000	-55.7188 **	-56.1872 **
3099.5500	-13.0000	-51.8115 **	-52.0965 **
3874.4375	-13.0000	-50.9071 **	-51.1446 **
4649.3250	-13.0000	-49.2841 **	-48.2379 **
5424.2125	-13.0000	-47.5241 **	-47.2791 **
6199.1000	-13.0000	-45.6326 **	-45.9543 **
6973.9875	-13.0000	-43.4166 **	-43.1280 **
7748.8750	-13.0000	-43.2708 **	-42.4972 **



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: Qawiman&Nazrin Sat, 24 Dec, 2022

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): 23.9 Hum(%RH): 70.3

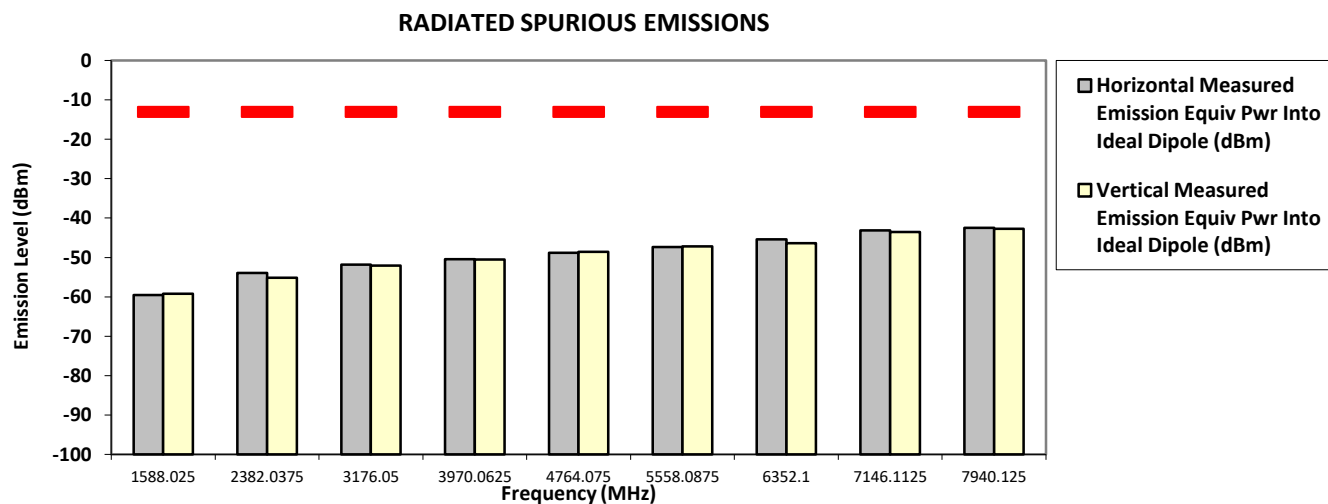
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Test Mode: TX Analog Accy Part No: NA
794.012500 MHz 12.5 kHz 2.990 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)
1588.0250	-13.0000	-59.5662 **	-59.1977 **
2382.0375	-13.0000	-53.9152 **	-55.1529 **
3176.0500	-13.0000	-51.7890 **	-52.0402 **
3970.0625	-13.0000	-50.4313 **	-50.5116 **
4764.0750	-13.0000	-48.8008 **	-48.5930 **
5558.0875	-13.0000	-47.3658 **	-47.2303 **
6352.1000	-13.0000	-45.4070 **	-46.4169 **
7146.1125	-13.0000	-43.1157 **	-43.5088 **
7940.1250	-13.0000	-42.4771 **	-42.7413 **



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: Qawiman&Nazrin Sat, 24 Dec, 2022

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): 23.9 Hum(%RH): 70.3

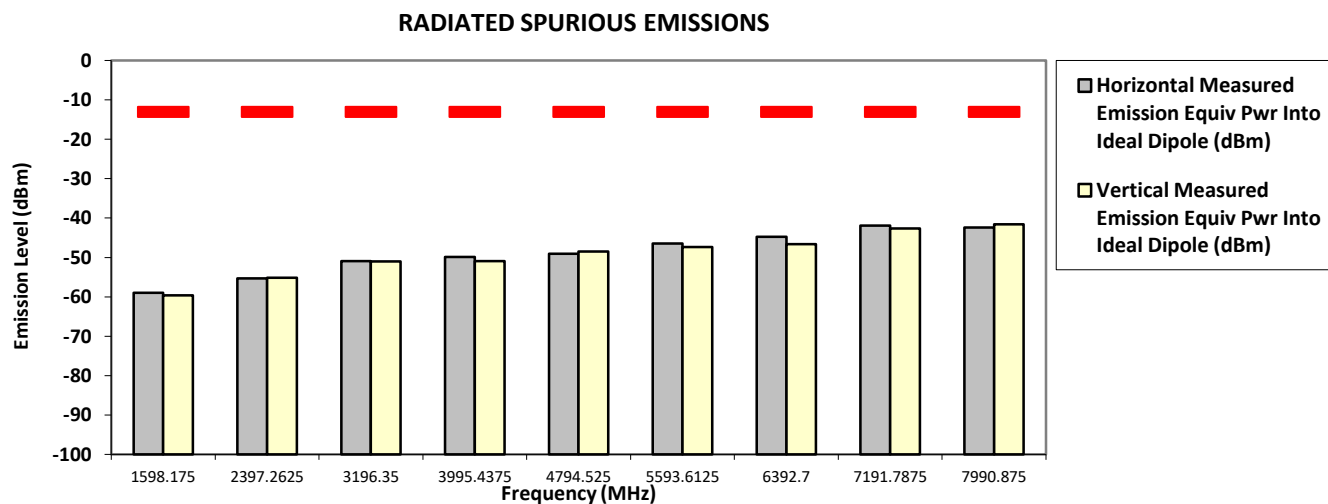
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Test Mode: TX Analog Accy Part No: NA
799.087500 MHz 12.5 kHz 2.990 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)
1598.1750	-13.0000	-58.9588 **	-59.5978 **
2397.2625	-13.0000	-55.3354 **	-55.1473 **
3196.3500	-13.0000	-50.9223 **	-51.0299 **
3995.4375	-13.0000	-49.8869 **	-50.9099 **
4794.5250	-13.0000	-49.1019 **	-48.4598 **
5593.6125	-13.0000	-46.4572 **	-47.3356 **
6392.7000	-13.0000	-44.7748 **	-46.6333 **
7191.7875	-13.0000	-41.9489 **	-42.6602 **
7990.8750	-13.0000	-42.3852 **	-41.5587 **



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: Qawiman&Nazrin Sat, 24 Dec, 2022

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): 23.9 Hum(%RH): 70.3

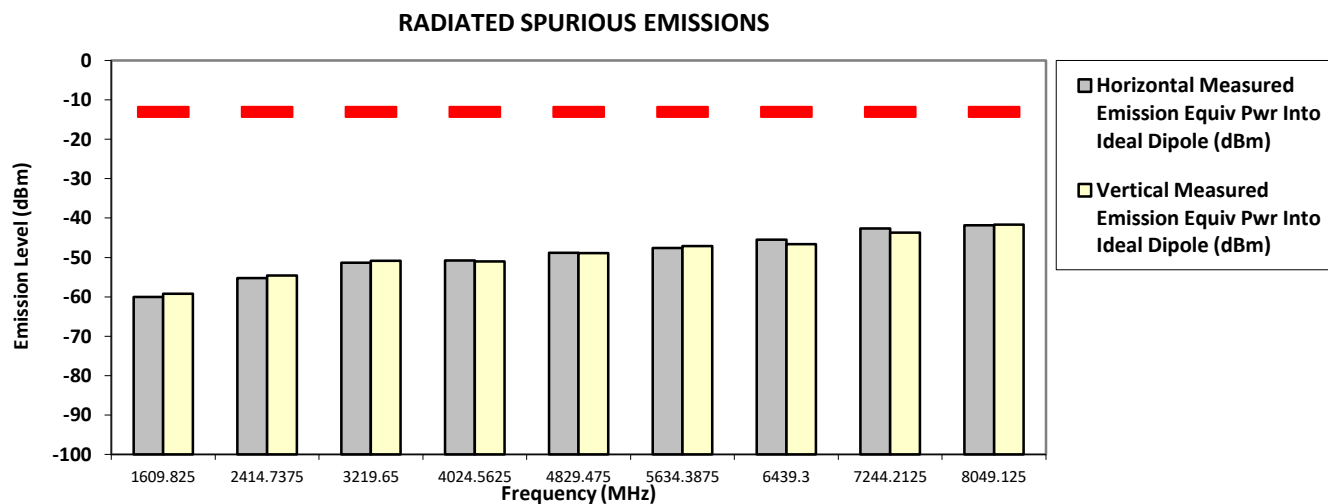
Remarks:

Passed Results	Marginal Results	Failed Results
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SAC Transmitter Radiated Emission:

Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Test Mode: TX Analog Accy Part No: NA
804.912500 MHz 12.5 kHz 2.990 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)
1609.8250	-13.0000	-60.0257 **	-59.2562 **
2414.7375	-13.0000	-55.2516 **	-54.6012 **
3219.6500	-13.0000	-51.3650 **	-50.8826 **
4024.5625	-13.0000	-50.7727 **	-50.9771 **
4829.4750	-13.0000	-48.8469 **	-48.9023 **
5634.3875	-13.0000	-47.6161 **	-47.1076 **
6439.3000	-13.0000	-45.5218 **	-46.6231 **
7244.2125	-13.0000	-42.6570 **	-43.6767 **
8049.1250	-13.0000	-41.8241 **	-41.6820 **



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: Qawiman&Nazrin Sat, 24 Dec, 2022

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): 23.9 Hum(%RH): 70.3

Remarks:

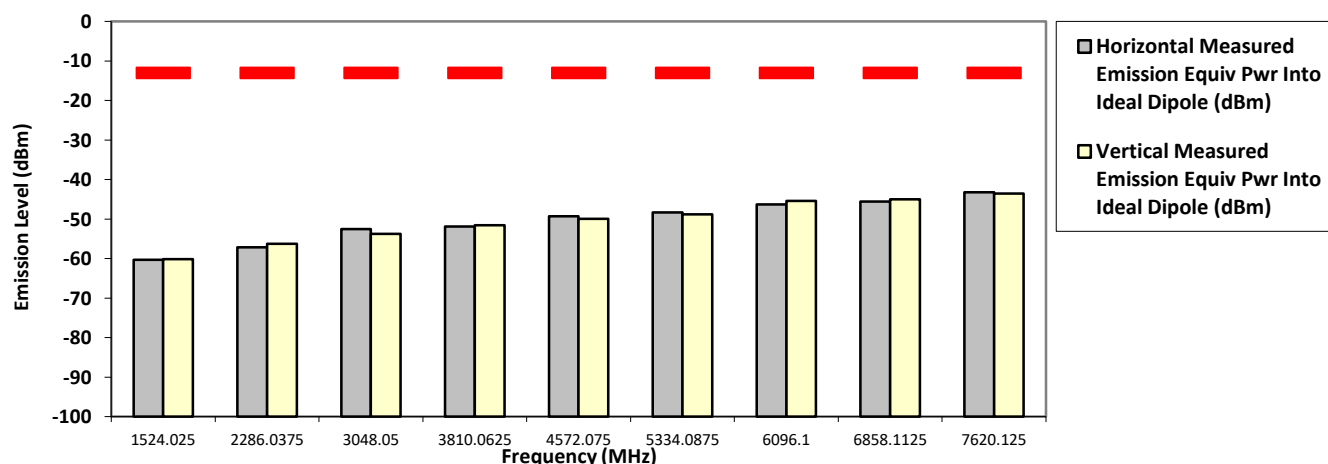
Passed Results	Marginal Results	Failed Results
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6.10.3. Test Result (Digital)

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX APCO Digital C4FM
762.012500 MHz 12.5 kHz 2.990 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)
1524.0250	-13.0000	-60.2837 **	-60.2024 **
2286.0375	-13.0000	-57.1459 **	-56.2980 **
3048.0500	-13.0000	-52.5640 **	-53.7783 **
3810.0625	-13.0000	-51.9129 **	-51.5577 **
4572.0750	-13.0000	-49.2835 **	-49.9736 **
5334.0875	-13.0000	-48.3530 **	-48.8210 **
6096.1000	-13.0000	-46.3408 **	-45.3984 **
6858.1125	-13.0000	-45.5757 **	-45.0401 **
7620.1250	-13.0000	-43.2403 **	-43.5382 **

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: Qawiman&Nazrin Sat, 24 Dec, 2022

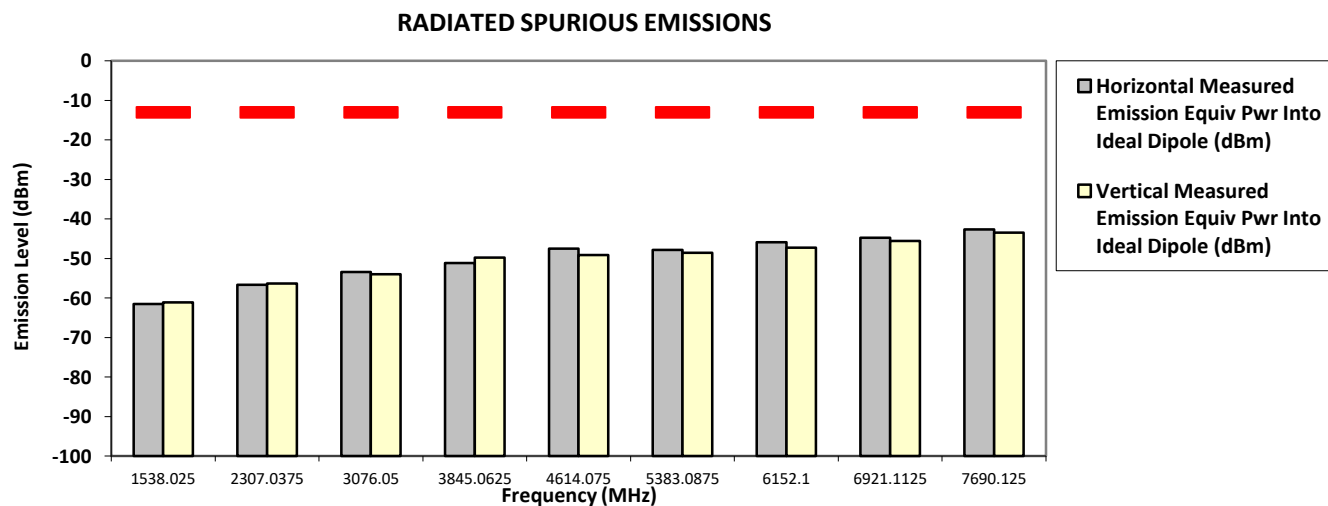
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.9 Hum(%RH): 70.3

Remarks:

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

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX APCO Digital C4FM
769.012500 MHz 12.5 kHz 2.200 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)
1538.0250	-13.0000	-61.4987 **	-61.1488 **
2307.0375	-13.0000	-56.7102 **	-56.3505 **
3076.0500	-13.0000	-53.4263 **	-53.9814 **
3845.0625	-13.0000	-51.1945 **	-49.8305 **
4614.0750	-13.0000	-47.5450 **	-49.1764 **
5383.0875	-13.0000	-47.8638 **	-48.5993 **
6152.1000	-13.0000	-45.9491 **	-47.3258 **
6921.1125	-13.0000	-44.7417 **	-45.5792 **
7690.1250	-13.0000	-42.6639 **	-43.4915 **



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: Qawiman&Nazrin Sat, 24 Dec, 2022

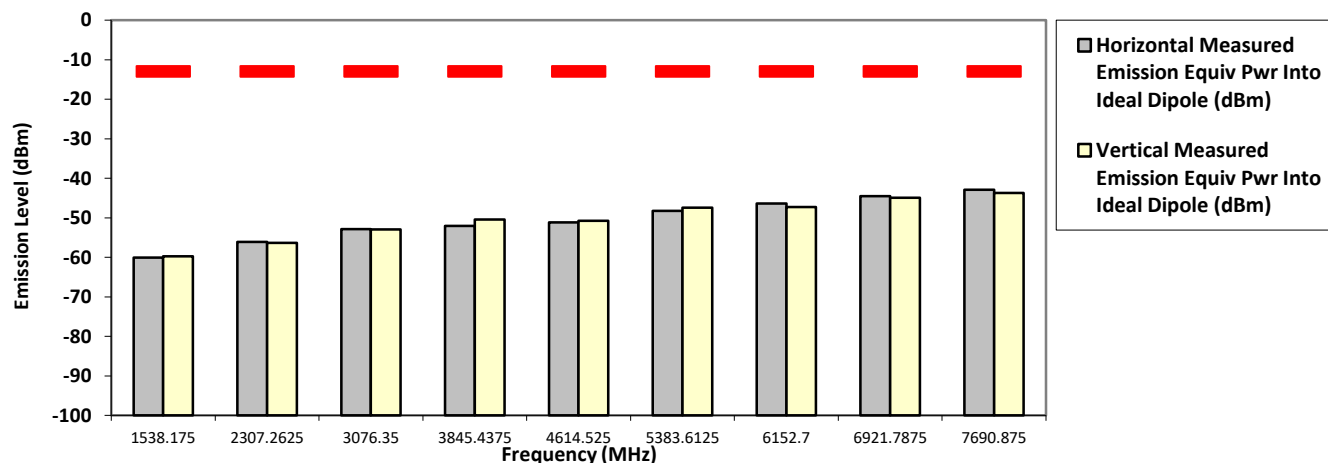
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.9 Hum(%RH): 70.3

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX APCO Digital C4FM
769.087500 MHz 12.5 kHz 2.990 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)
1538.1750	-13.0000	-60.0418 **	-59.7642 **
2307.2625	-13.0000	-56.0912 **	-56.3752 **
3076.3500	-13.0000	-52.8580 **	-52.9153 **
3845.4375	-13.0000	-52.0519 **	-50.4695 **
4614.5250	-13.0000	-51.1672 **	-50.7326 **
5383.6125	-13.0000	-48.2693 **	-47.4447 **
6152.7000	-13.0000	-46.3996 **	-47.3211 **
6921.7875	-13.0000	-44.5422 **	-44.9076 **
7690.8750	-13.0000	-42.8891 **	-43.7468 **

RADIATED SPURIOUS EMISSIONS



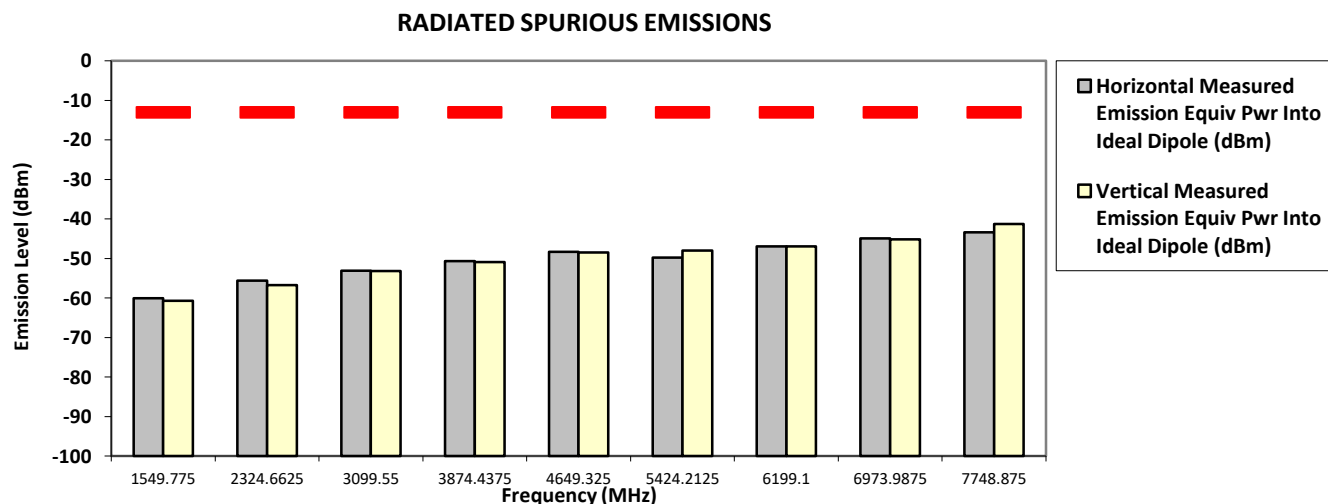
The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Qawiman&Nazrin Sat, 24 Dec, 2022

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): 23.9 Hum(%RH): 70.3

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX APCO Digital C4FM
774.887500 MHz 12.5 kHz 2.990 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)
1549.7750	-13.0000	-60.0534 **	-60.7486 **
2324.6625	-13.0000	-55.5937 **	-56.7733 **
3099.5500	-13.0000	-53.1349 **	-53.1874 **
3874.4375	-13.0000	-50.6674 **	-50.9370 **
4649.3250	-13.0000	-48.3647 **	-48.5369 **
5424.2125	-13.0000	-49.7887 **	-48.0434 **
6199.1000	-13.0000	-46.9713 **	-47.0001 **
6973.9875	-13.0000	-44.9030 **	-45.1781 **
7748.8750	-13.0000	-43.3784 **	-41.2707 **



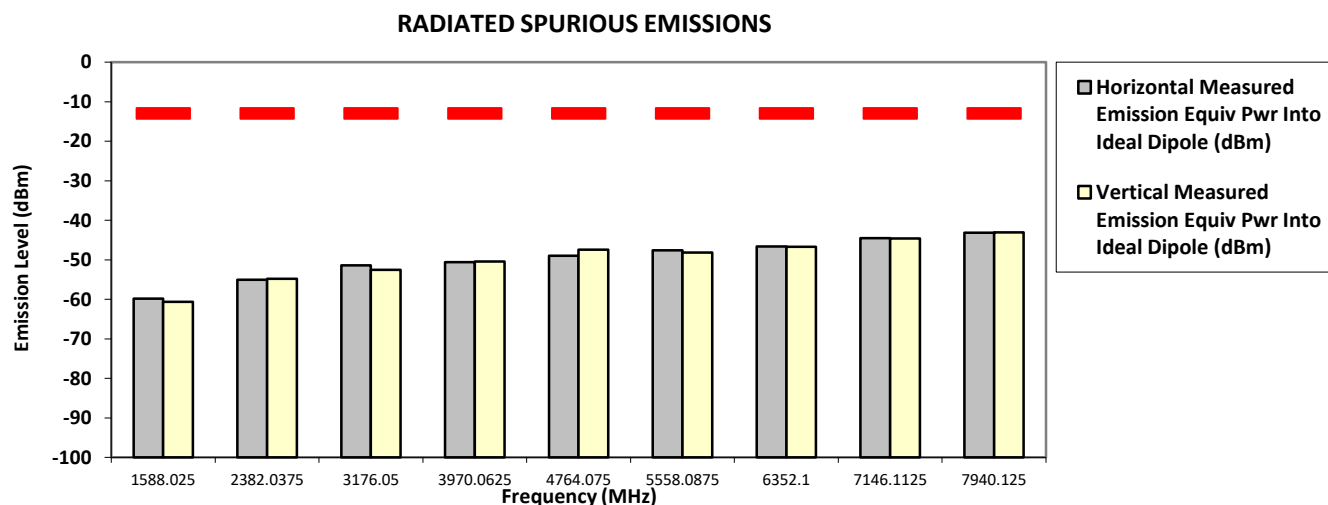
The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Qawiman&Nazrin Sat, 24 Dec, 2022

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): 23.9 Hum(%RH): 70.3

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX APCO Digital C4FM
794.012500 MHz 12.5 kHz 2.990 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)
1588.0250	-13.0000	-59.8561 **	-60.6388 **
2382.0375	-13.0000	-55.0779 **	-54.8381 **
3176.0500	-13.0000	-51.3773 **	-52.5418 **
3970.0625	-13.0000	-50.5931 **	-50.4548 **
4764.0750	-13.0000	-48.9820 **	-47.4529 **
5558.0875	-13.0000	-47.6134 **	-48.1550 **
6352.1000	-13.0000	-46.6192 **	-46.7462 **
7146.1125	-13.0000	-44.5690 **	-44.6355 **
7940.1250	-13.0000	-43.1552 **	-43.0843 **



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: Qawiman&Nazrin Sat, 24 Dec, 2022

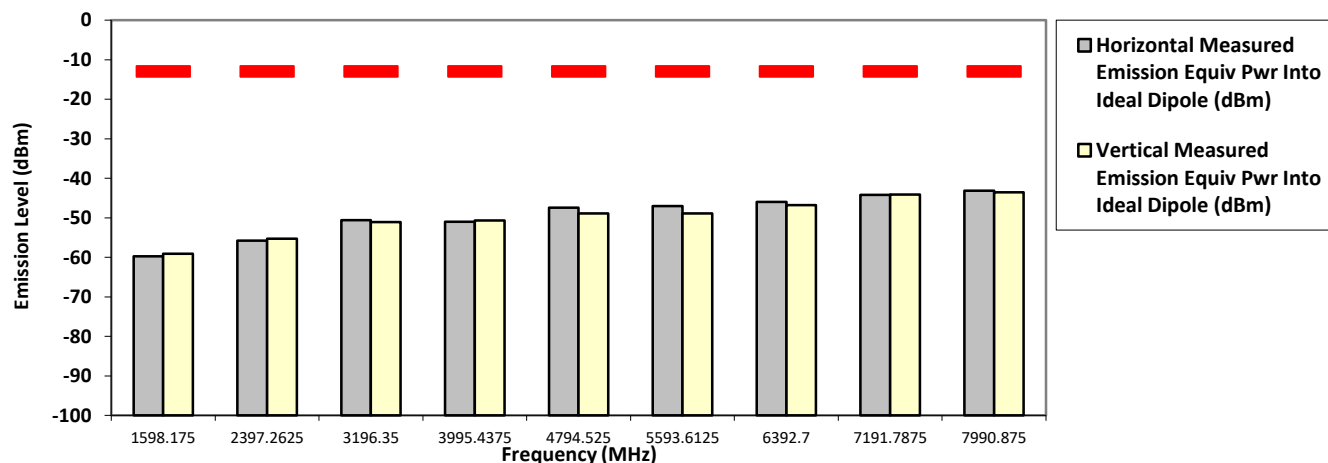
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.9 Hum(%RH): 70.3

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX APCO Digital C4FM
799.087500 MHz 12.5 kHz 2.990 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)
1598.1750	-13.0000	-59.7339 **	-59.1402 **
2397.2625	-13.0000	-55.7926 **	-55.3034 **
3196.3500	-13.0000	-50.5678 **	-51.0783 **
3995.4375	-13.0000	-50.9994 **	-50.7233 **
4794.5250	-13.0000	-47.4694 **	-48.9202 **
5593.6125	-13.0000	-47.0260 **	-48.9025 **
6392.7000	-13.0000	-45.9912 **	-46.7973 **
7191.7875	-13.0000	-44.1871 **	-44.1418 **
7990.8750	-13.0000	-43.1919 **	-43.5305 **

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: Qawiman&Nazrin Sat, 24 Dec, 2022

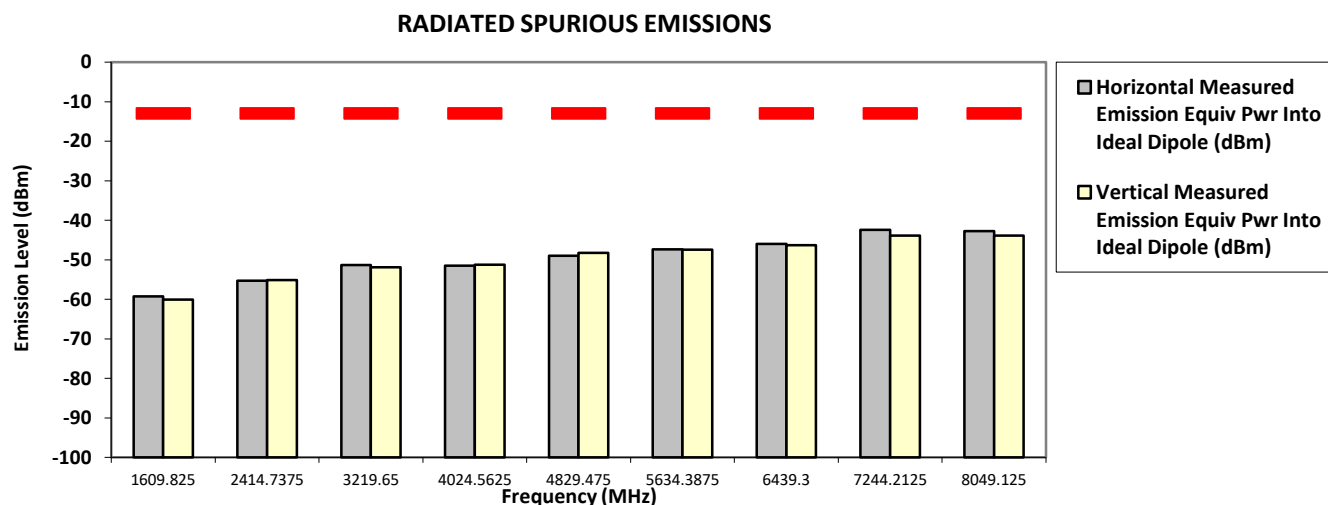
Remarks: ** Indicates the spurious emission could not be detected due to noise limitations or ambient.
*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported
Temp(Deg): 23.9 Hum(%RH): 70.3

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:

Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX APCO Digital C4FM
804.912500 MHz 12.5 kHz 2.990 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)
1609.8250	-13.0000	-59.2375 **	-60.0610 **
2414.7375	-13.0000	-55.3161 **	-55.1075 **
3219.6500	-13.0000	-51.3314 **	-51.9260 **
4024.5625	-13.0000	-51.4643 **	-51.2456 **
4829.4750	-13.0000	-49.0053 **	-48.2915 **
5634.3875	-13.0000	-47.4075 **	-47.4846 **
6439.3000	-13.0000	-45.9541 **	-46.2844 **
7244.2125	-13.0000	-42.4668 **	-43.8861 **
8049.1250	-13.0000	-42.7763 **	-43.9112 **



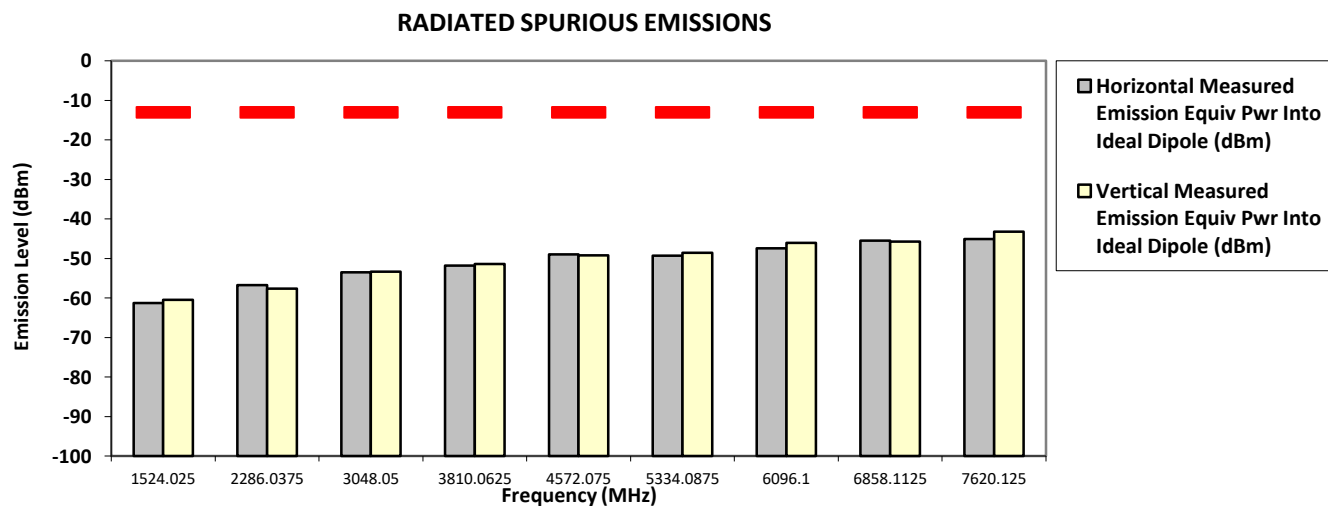
The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Qawiman&Nazrin Sat, 24 Dec, 2022

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): 23.9 Hum(%RH): 70.3

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX APCO Digital Phase II
762.012500 MHz 12.5 kHz 2.990 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)
1524.0250	-13.0000	-61.2754 **	-60.4501 **
2286.0375	-13.0000	-56.7813 **	-57.6597 **
3048.0500	-13.0000	-53.5042 **	-53.3489 **
3810.0625	-13.0000	-51.8261 **	-51.4115 **
4572.0750	-13.0000	-48.9531 **	-49.2138 **
5334.0875	-13.0000	-49.3022 **	-48.5939 **
6096.1000	-13.0000	-47.4829 **	-46.0996 **
6858.1125	-13.0000	-45.5096 **	-45.7629 **
7620.1250	-13.0000	-45.0752 **	-43.2581 **



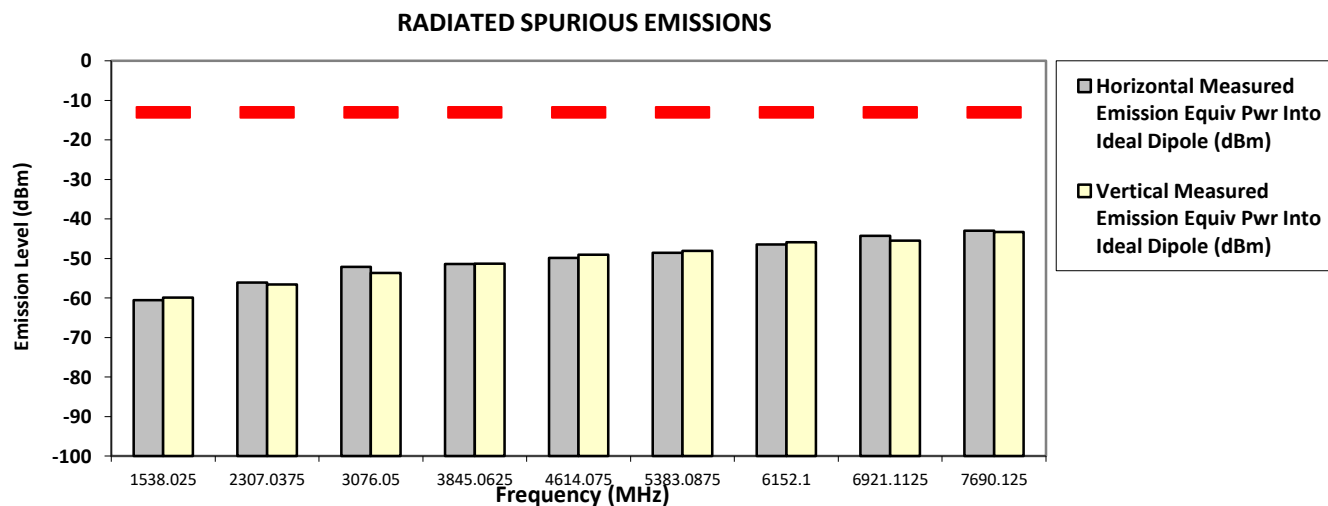
The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Qawiman&Nazrin Sat, 24 Dec, 2022

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): 23.9 Hum(%RH): 70.3

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX APCO Digital Phase II
769.012500 MHz 25 kHz 2.200 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)
1538.0250	-13.0000	-60.5445 **	-59.8874 **
2307.0375	-13.0000	-56.1344 **	-56.5670 **
3076.0500	-13.0000	-52.1696 **	-53.6986 **
3845.0625	-13.0000	-51.3813 **	-51.3641 **
4614.0750	-13.0000	-49.8761 **	-49.0573 **
5383.0875	-13.0000	-48.5529 **	-48.1224 **
6152.1000	-13.0000	-46.4721 **	-45.9209 **
6921.1125	-13.0000	-44.3142 **	-45.4778 **
7690.1250	-13.0000	-42.9700 **	-43.3597 **



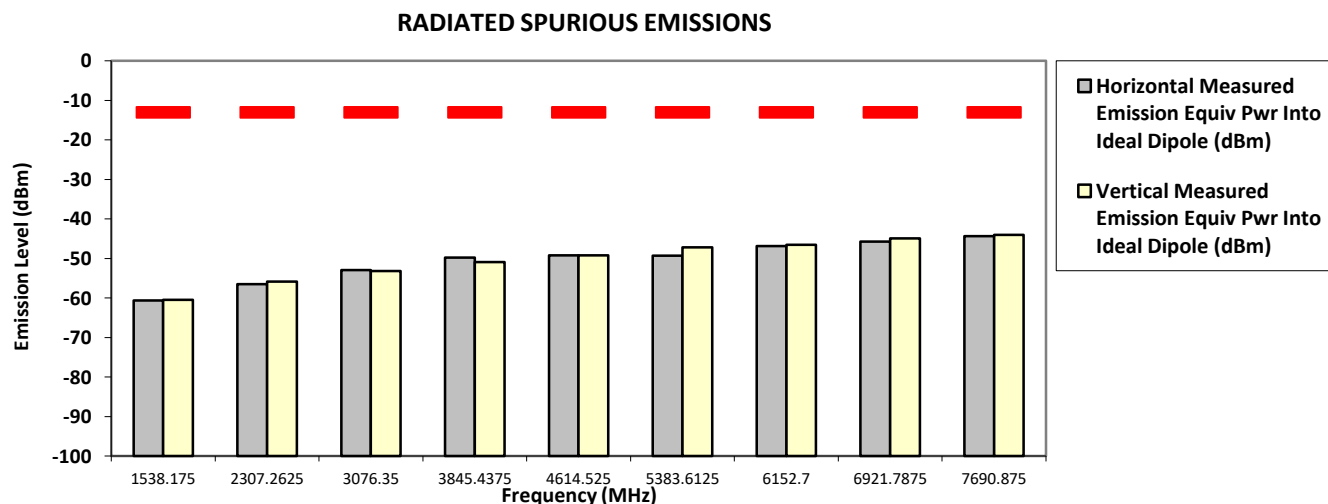
The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Qawiman&Nazrin Sat, 24 Dec, 2022

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): 23.9 Hum(%RH): 70.3

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX APCO Digital Phase II
769.087500 MHz 12.5 kHz 2.990 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)
1538.1750	-13.0000	-60.6333 **	-60.4927 **
2307.2625	-13.0000	-56.5187 **	-55.8362 **
3076.3500	-13.0000	-52.9296 **	-53.2124 **
3845.4375	-13.0000	-49.7573 **	-50.9446 **
4614.5250	-13.0000	-49.2697 **	-49.2136 **
5383.6125	-13.0000	-49.3106 **	-47.2364 **
6152.7000	-13.0000	-46.8725 **	-46.5489 **
6921.7875	-13.0000	-45.7156 **	-44.9417 **
7690.8750	-13.0000	-44.3363 **	-44.0657 **



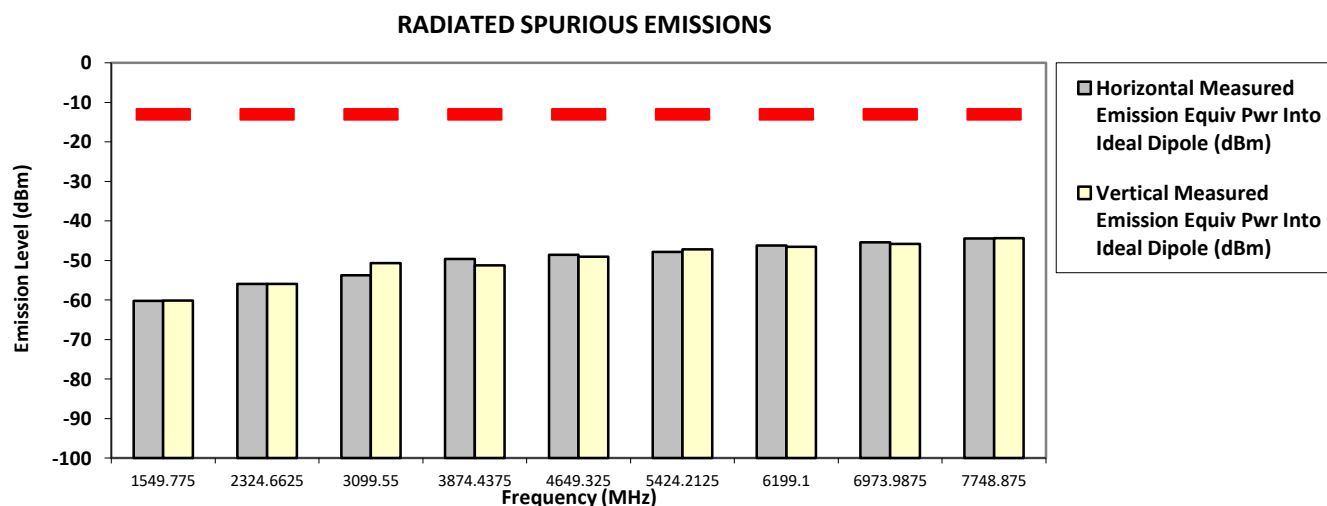
The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Qawiman&Nazrin Sat, 24 Dec, 2022

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): 23.9 Hum(%RH): 70.3

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX APCO Digital Phase II
774.887500 MHz 12.5 kHz 2.990 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)
1549.7750	-13.0000	-60.2739 **	-60.1852 **
2324.6625	-13.0000	-55.9487 **	-55.9372 **
3099.5500	-13.0000	-53.7966 **	-50.6613 **
3874.4375	-13.0000	-49.6609 **	-51.2676 **
4649.3250	-13.0000	-48.5450 **	-49.0690 **
5424.2125	-13.0000	-47.8155 **	-47.2368 **
6199.1000	-13.0000	-46.2106 **	-46.5239 **
6973.9875	-13.0000	-45.4478 **	-45.8094 **
7748.8750	-13.0000	-44.4582 **	-44.3858 **



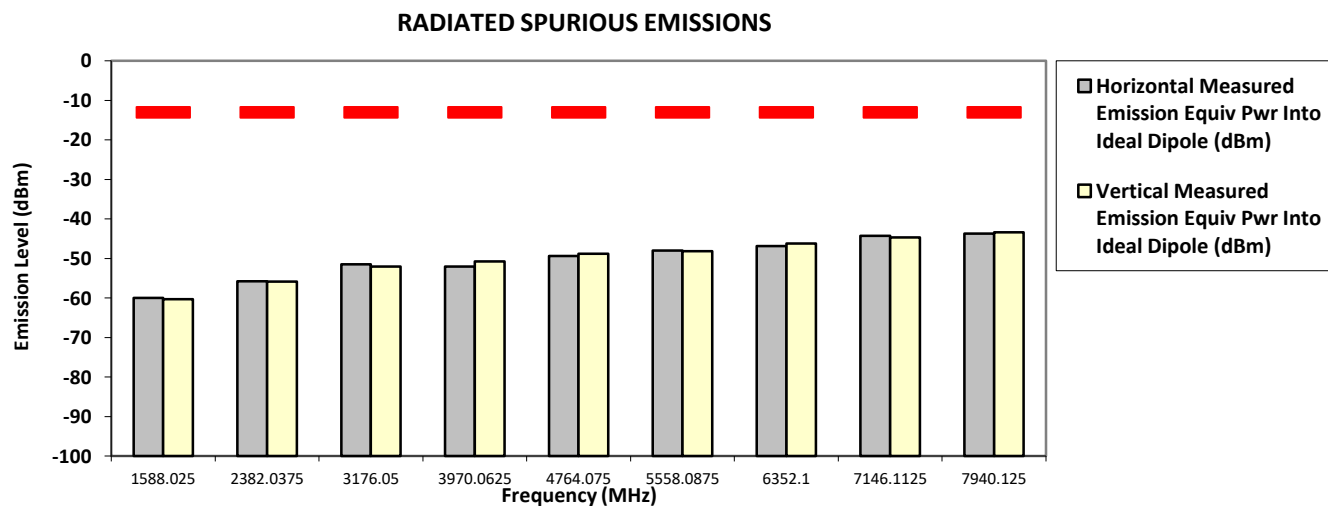
The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Qawiman&Nazrin Sat, 24 Dec, 2022

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): 23.9 Hum(%RH): 70.3

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX APCO Digital Phase II
794.012500 MHz 12.5 kHz 2.990 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)
1588.0250	-13.0000	-59.9599 **	-60.3097 **
2382.0375	-13.0000	-55.7584 **	-55.9099 **
3176.0500	-13.0000	-51.5176 **	-52.0923 **
3970.0625	-13.0000	-52.0560 **	-50.7358 **
4764.0750	-13.0000	-49.4202 **	-48.8232 **
5558.0875	-13.0000	-48.0411 **	-48.1635 **
6352.1000	-13.0000	-46.8941 **	-46.2248 **
7146.1125	-13.0000	-44.2642 **	-44.7216 **
7940.1250	-13.0000	-43.7616 **	-43.3882 **



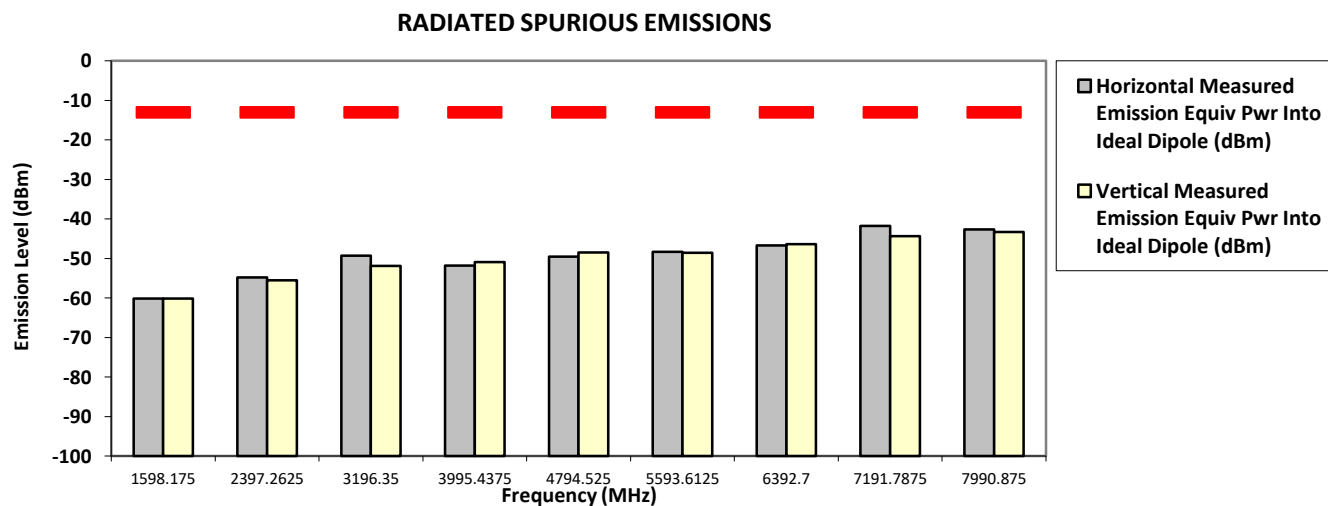
The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Qawiman&Nazrin Sat, 24 Dec, 2022

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): 23.9 Hum(%RH): 70.3

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX APCO Digital Phase II
799.087500 MHz 12.5 kHz 2.990 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)
1598.1750	-13.0000	-60.1558 **	-60.1682 **
2397.2625	-13.0000	-54.7857 **	-55.5772 **
3196.3500	-13.0000	-49.3091 **	-51.8957 **
3995.4375	-13.0000	-51.8329 **	-50.9078 **
4794.5250	-13.0000	-49.5317 **	-48.5408 **
5593.6125	-13.0000	-48.3295 **	-48.5564 **
6392.7000	-13.0000	-46.7311 **	-46.4062 **
7191.7875	-13.0000	-41.7456 **	-44.3818 **
7990.8750	-13.0000	-42.6495 **	-43.3067 **



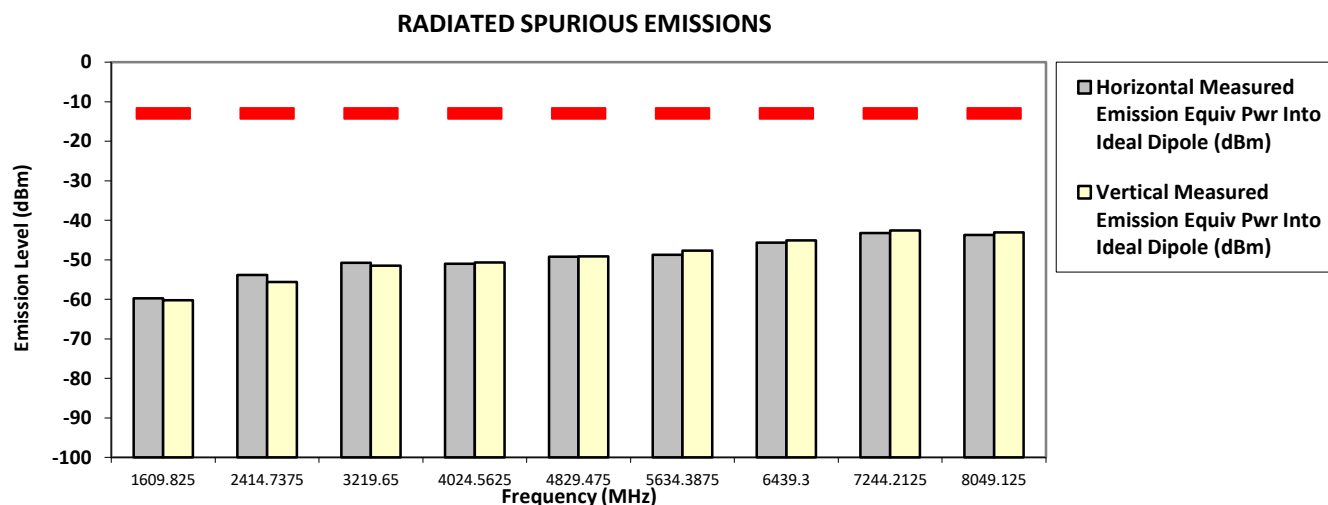
The data presented here was taken using the substitution method as found in the ANSI C63.26-2015 document.
Motorola Penang EMC Lab - Test Performed by: Qawiman&Nazrin Sat, 24 Dec, 2022

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): 23.9 Hum(%RH): 70.3

Remarks: Passed Results Marginal Results Failed Results

SAC Transmitter Radiated Emission:
Model Number: H55TGT9PW8AN S/N: 437TYV1807 SR:12464-EMC-00238
Battery Part No: NNTN9089A Accy Part No: NA
Test Mode: TX APCO Digital Phase II
804.912500 MHz 12.5 kHz 2.990 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)
1609.8250	-13.0000	-59.7361 **	-60.2275 **
2414.7375	-13.0000	-53.8390 **	-55.6006 **
3219.6500	-13.0000	-50.7763 **	-51.5221 **
4024.5625	-13.0000	-51.0040 **	-50.6935 **
4829.4750	-13.0000	-49.2703 **	-49.1268 **
5634.3875	-13.0000	-48.7514 **	-47.7082 **
6439.3000	-13.0000	-45.6519 **	-45.1271 **
7244.2125	-13.0000	-43.2707 **	-42.6208 **
8049.1250	-13.0000	-43.7348 **	-43.1166 **



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: Qawiman&Nazrin Sat, 24 Dec, 2022

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): 23.9 Hum(%RH): 70.3

Remarks:

Passed Results	Marginal Results	Failed Results
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6.10.4. Test Limit

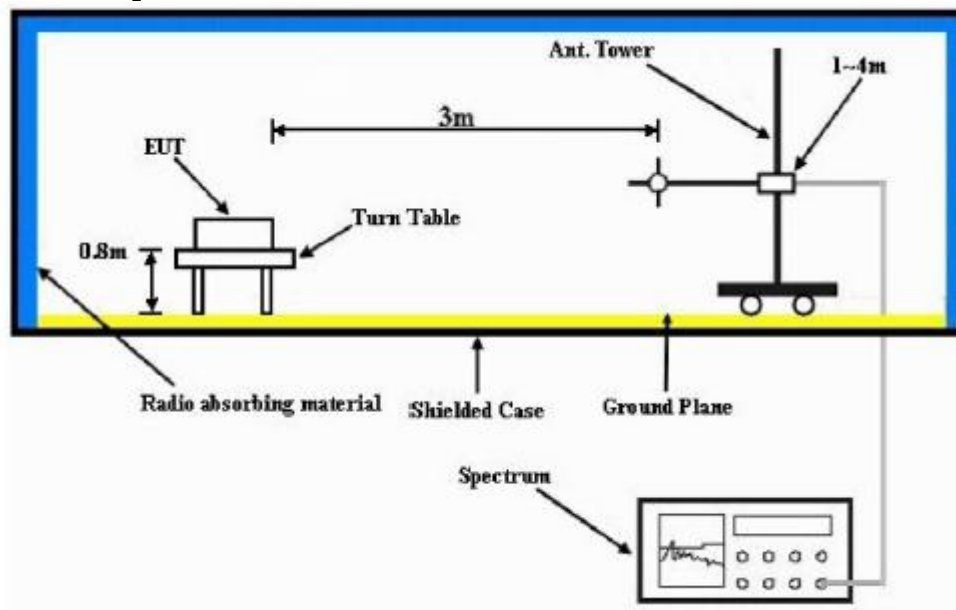
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

Channel Spacing	Part 22	Part 24D	Part 74	Part 80	Part 90 (UHF, VHF, 800, 900)	Part 90 (700)
12.5kHz	43 + 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)

6.11. Effective Radiated Power (ERP)

6.11.1. 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.

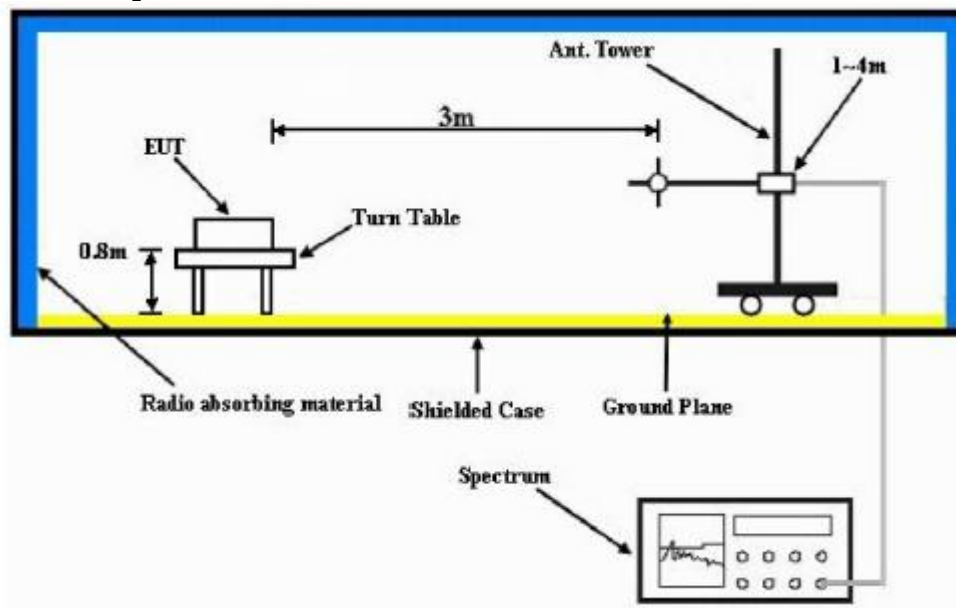
6.11.2. Test Result Not Applicable

6.11.3. 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).

6.12. GNSS (EIRP for 1559 - 1610MHz)

6.12.1. 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) $EIRP = \text{“Read Value”} + \text{Measured substitution value} + 2.15$.

6.12.1. Test Result **Not Applicable**

6.12.2. 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 ~