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<table><tr><td>Date/s Tested</td><td>: 05-May-2025 - 13-Jun-2025</td></tr><tr><td>Report Issue Date</td><td>: 22-Jun-2025</td></tr><tr><td>Test Site Location</td><td>: Motorola Penang Advanced Communication Laboratory (ACL)</td></tr><tr><td>Manufacturer</td><td>: Motorola Solutions INC. (Plantation)</td></tr><tr><td>Manufacturer Address</td><td>: Motorola Solutions INC. (Plantation), 8000 West Sunrise, Blv d MD 41-128, USA Plantation FL 333222-9947</td></tr><tr><td>Requestor</td><td>: STANKOVSKA DANIELA</td></tr><tr><td>Product Type</td><td>: Portable</td></tr><tr><td>Product Marketing Version (PMN)</td><td>: APX NEXT</td></tr><tr><td>Hardware Version Identification Number (HVIN)</td><td>: H55TGT9PW8BN</td></tr><tr><td>Frequency Band</td><td>: 762-776MHz, 792-806MHz</td></tr><tr><td>Max RF Output Power</td><td>: 2.99 Watts</td></tr><tr><td>Applicant Name</td><td>: Motorola Solutions Inc</td></tr><tr><td>Applicant Address</td><td>: Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia.</td></tr><tr><td>ISED Registrations</td><td>: MY0001</td></tr><tr><td>FCC Registrations</td><td>: 461337</td></tr><tr><td>Firmware Version Identification Number (FVIN)</td><td>: D37.00.17</td></tr></table> The equipment was tested accordance to the requirement listed below: <table><tr><td>(LMR) FCC 47 CFR Part 90 ISED RSS-Gen Issue 5, Amendment 1 (Mar 2019), Amendment 2 (Feb 2021) RSS-119 Issue 12, Amendment (April 1, 2022)</td><td>PASS</td></tr></table>		Date/s Tested	: 05-May-2025 - 13-Jun-2025	Report Issue Date	: 22-Jun-2025	Test Site Location	: Motorola Penang Advanced Communication Laboratory (ACL)	Manufacturer	: Motorola Solutions INC. (Plantation)	Manufacturer Address	: Motorola Solutions INC. (Plantation), 8000 West Sunrise, Blv d MD 41-128, USA Plantation FL 333222-9947	Requestor	: STANKOVSKA DANIELA	Product Type	: Portable	Product Marketing Version (PMN)	: APX NEXT	Hardware Version Identification Number (HVIN)	: H55TGT9PW8BN	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 Identification Number (FVIN)	: D37.00.17	(LMR) FCC 47 CFR Part 90 ISED RSS-Gen Issue 5, Amendment 1 (Mar 2019), Amendment 2 (Feb 2021) RSS-119 Issue 12, Amendment (April 1, 2022)	PASS
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Prepared By:  Putri Nur Sarah Sofia Test Personnel	Approved Signatory:  Ho Sze Khian Responsible Engineer																																		

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Report Revision History

Revision History	Description	Date	Originator
Rev. A	Initial Report	22-Jun-2025	Farah
Rev. B	Update antenna gain information at section 1.0, channel spacing in table frequency stability and Update ERP calculation at section 6.11.2.	15-August-2025	Putri

1.0 General Information

EUT Description:

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

The EUT contains following accessory devices and data cable:

Item	Brand	Model or P/N	Antenna Gain
BATTERY PACK, BATT IMPRES 2 LIION IP68 5800T	MOTOROLA	PMNN4895A	NA
Antenna, 65MM (760-870 MHZ)	MOTOROLA	AN000296A01	-0.8dBi

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)	RSS-119	RF Power Output	Pass		437ZBG0572
2.1055	RSS-119	Frequency Stability	Pass		437ZBG0572
2.1047	-	Audio Frequency Response	Pass		437ZBG0572
2.1047	-	Audio Low Pass Filter Response	Pass		437ZBG0572
2.1047,	-	Modulation limiting	Pass		437ZBG0572
2.1049, 90.21	RSS-119	Occupied Bandwidth	NA		
2.1051	-	Band Edge Conducted Spurious Emission	NA		
90.214	RSS-119	Transient Frequency Behavior	NA		
90.543(a), (b)	RSS-119	Adjacent Channel Power	Pass		437ZBG0572
2.1051, 90.210	RSS-119	Conducted Spurious Emissions	Pass	Worst case: -41.30 dBm	437ZBG0572
2.1051	RSS-119	Radiated Spurious Emission	Pass	Worst case: -38.462 dBm (margin: 25.462 dB)	437ZBG0577
90.543(f)	RSS-119	GNSS (EIRP for 1559 – 1610MHz)	Pass		437ZBG0577
90.541	RSS-119	Effective Radiated Power (ERP)	Pass		437ZBG0572

NA → Not Applicable

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 dBμV/m(Field Strength)	30MHz ~ 1000MHz	5.88 dB
Radiated Emissions above 1 GHz dBμV/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 FilterResponse	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	6-Mar-25	6-Mar-26
POWER SENSOR	E4412A	MY50000141	16-Aug-24	16-Aug-25
POWER METER	E4416A	MY45101448	23-Aug-24	23-Aug-25
AUDIO ANALYZER	U8903B	MY61070007	17-Aug-24	17-Aug-25
POWER SUPPLY	6031A	3325A02771	23-Apr-25	23-Apr-26
CXA SIGNAL ANALYZER	N9000B	MY60250694	16-Dec-24	16-Dec-25
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	Not Required	Not Required
SWITCH DRIVER	11713A	3748A09090	Not Required	Not Required
POWER METER	E4416A	GB41293866	31-Dec-24	31-Dec-25
POWER SENSOR	E9301B	MY50180003	19-Jul-24	19-Jul-25
SPECTRUM ANALYZER	E4445A	MY46181513	4-Jul-24	4-Jul-25
ATTENUATOR/11DB	8494G	MY52300223	15-Aug-24	15-Aug-25
ATTENUATOR/110DB	8496G	MY52300088	15-Aug-24	15-Aug-25
MODULATION ANALYZER	8901B	3403A04772	18-Sep-24	18-Sep-25
POWER SUPPLY	6031A	3506A03271	26-Sep-24	26-Sep-25
SIGNAL GENERATOR	8657A	3250A05137	16-Aug-24	16-Aug-25
CXA SIGNAL ANALYZER	N9000B	MY60250716	3-Dec-24	3-Dec-25
AUDIO ANALYZER	8903B	3011A12380	19-Mar-25	19-Mar-26
AUDIO ANALYZER	8903B	2836A05866	3-Apr-25	3-Apr-26
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 1.23.06)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
SWITCH CONTROL UNIT	3488A	2719A32735	Not Required	Not Required
INTERFACE BOX - FILTER	NA	CS001	Not Required	Not Required
POWER SUPPLY	6031A	3416A02942	24-Sep-24	24-Sep-25
SPECTRUM ANALYZER	E4445A	MY46181250	19-Oct-24	19-Oct-25
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 CHAMBER

Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMI TEST RECEIVER	ESW44	103229	09-Sep-24	09-Sep-25
3m Semi-anechoic Chamber	NA	888032	Not Required	Not Required
BORE SIGHT ANTENNA MAST	MBS-500	1010817	Not Required	Not Required
TURNTABLE FLUSH MOUNT 2M	T-200-S	T-200-S-001	Not Required	Not Required
POSITIONING CONTROLLER	MF-7802BS	MF-78028636	Not Required	Not Required
POWER SUPPLY (0-60V/0-50A, 1000W)	6032A	2615A01178	30-Jul-24	30-Jul-25
SIGNAL ANALYZER	FSV40	101432	09-Aug-24	08-Aug-25
DATA LOGGER	SDL500	A.016800	26-Jun-24	26-Jun-25
BILOG ANTENNA	CBL6112D	2950	09-Apr-25	09-Apr-26
BILOG ANTENNA	CBL 6112B	2964	08-Oct-24	08-Oct-25
DRG HORN FREQ.	SAS-571	1027	01-Jul-24	01-Jul-25
DRG HORN FREQ.	SAS-571	719	09-Oct-24	09-Oct-25
PREAMPLIFIER	PAM-0118	427	15-Nov-24	15-Nov-25
SIGNAL GENERATOR	SMB100A	181117	06-Dec-21	06-Aug-25
LOOP ANTENNA	6502	00208416	08-Oct-24	08-Oct-25
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170143	30-Sep-24	30-Sep-25
Test Software	EMC_FCC_IC_Bluetooth_RE_Test			
Version	EMC_FCC_RE_v1.6.5			

5.0 Test Condition

5.1. Transmitter Test Conditions

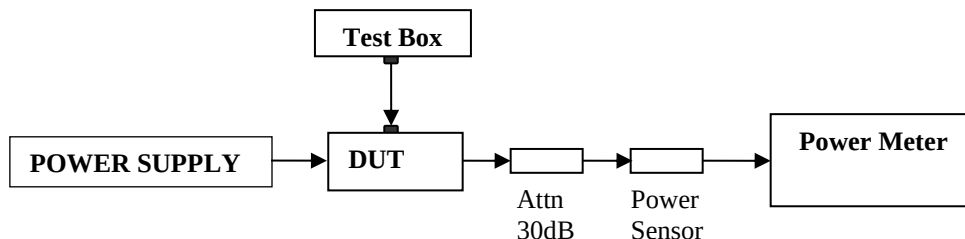
Test Item, (Channel Spacing)	Power (W)	Modulation	Test Frequency (MHz)	Tested By	Environmental conditions
RF Output Power	Low & Max	FM	762.0125, 768.0125, 769.0875, 774.8875, 775.9875, 792.0125, 798.0125, 799.0875, 804.9125, 805.9875	Farah	23.4°C, 50%RH
Frequency Stability	Max	FM	769.0875	Farah	25.1°C, 54.3%RH, 60.3°C, 50%RH, -30.1°C, 51.2%RH
Audio Frequency Response (12.5kHz / 25kHz)	Max	FM	769.0875	Farah	23.4°C, 50%RH
Audio Low Pass Filter Response (12.5kHz / 25kHz)	Max	FM	769.0875	Farah	23.4°C, 50%RH
Modulation limiting (12.5kHz / 25kHz)	Max	FM	769.0875	Farah	23.4°C, 50%RH
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	769.0875, 774.8875, 799.0875, 804.9125	Farah	23.4°C, 50%RH
Conducted Spurious Emissions- (12.5kHz / 25kHz)	Low / Max	FM/C4FM/Phase II	762.0125, 769.0125, 769.0875, 774.8875, 792.0125, 799.0875, 804.9125	Farah	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, 792.0125, 799.0875, 804.9125	Firdaus & Qawiman	23.4°C, 50%RH
GNSS (EIRP for 1559 - 1610MHz) (12.5kHz / 25kHz)	Max	FM	799.0875, 804.9125	Firdaus & Qawiman	23.4°C, 50%RH
Effective Radiated Power (ERP) (12.5kHz / 25kHz)	Max	FM	764.0125, 769.0125, 769.0875, 774.9375, 794.0125, 799.0125, 804.9125, 804.9375	Farah	23.4°C, 50%RH

NA → Not Applicable

6.0 Transmitter Test Parameters

6.1. RF Output Power

6.1.1. Test Setup



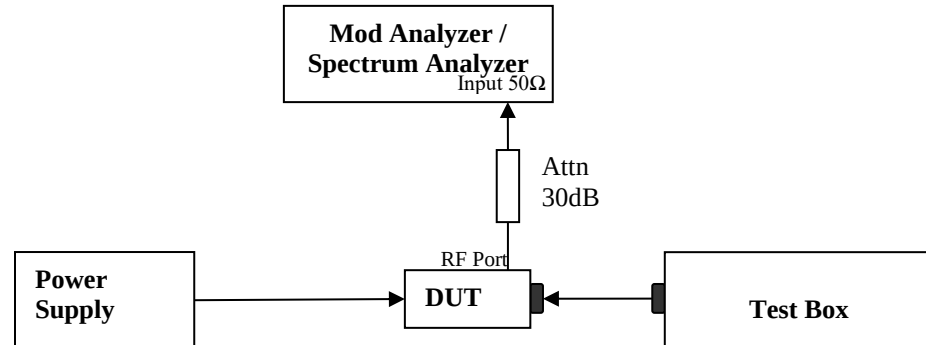
- 1) The DUT transmitter connected to Power Meter using the 30 dB attenuator and power sensor with above setup.
- 2) Path loss for the measurement included.
- 3) All the measurement was done at low, mid, high frequency for each band.
- 4) Record the power into the test report.

6.1.2. Test Result

Temperature	25°C				Remark
Voltage (V)	7.5V				
Frequency (MHz)	Low Power (W)	Current (A)	Max Power (W)	Current (A)	
762.01250	0.99	1.32	2.93	1.92	Not for FCC review
768.01250	0.99	1.29	2.94	1.86	Not for FCC review
769.08750	0.99	1.20	2.94	1.86	
774.88750	1.00	1.17	2.89	1.74	
775.98750	0.99	1.17	2.88	1.71	Not for FCC review
792.01250	0.99	1.14	2.92	1.70	Not for FCC review
798.01250	0.99	1.17	2.92	1.71	Not for FCC review
799.08750	0.99	1.14	2.87	1.65	
804.91250	0.99	1.17	2.91	1.71	
805.98750	0.98	1.11	2.90	1.65	Not for FCC review

6.2. Frequency Stability

6.2.1. Test Setup

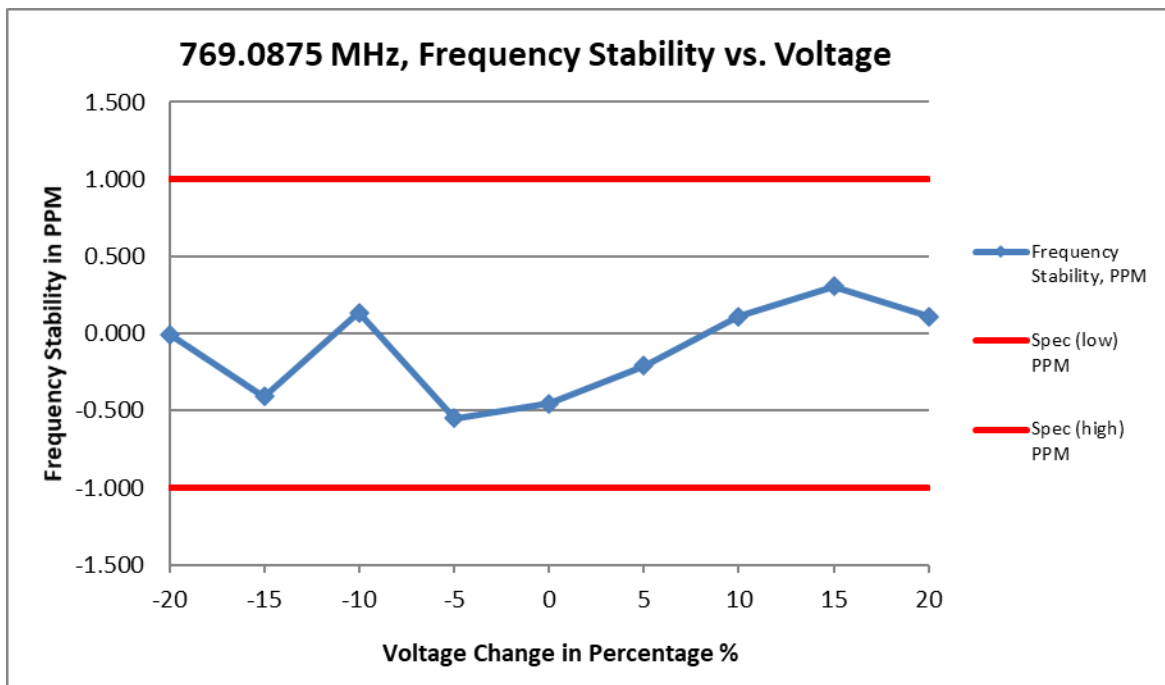


- 1) The DUT transmitter output port was connected to Modulation / Spectrum Analyzer.
- 2) Path loss for the measurement included.
- 3) Transmit the DUT and record the freq in MCF_{MHz} .
- 4) Test in 2 conditions:
 - Temperature: The frequency of the transmitter was measured from -30°C to 50°C.
 - Supply 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:

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

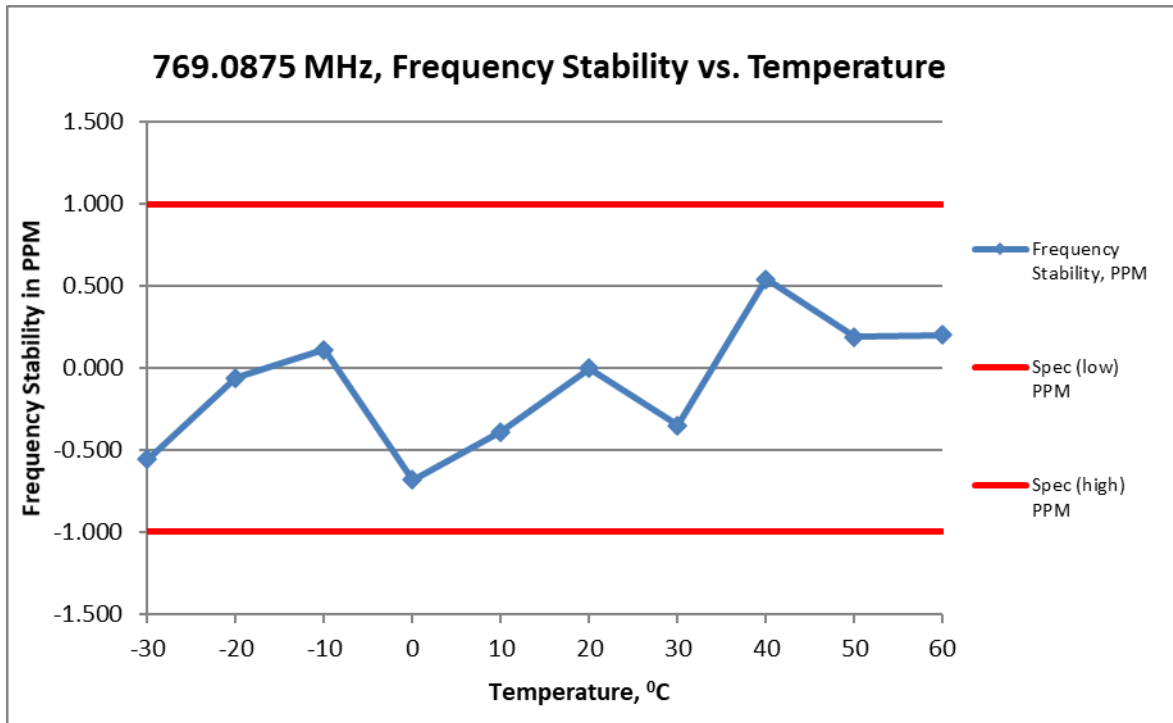
Where: MCF_{MHz} is the Measured Carrier Frequency in MHz
 ACF_{MHz} is the Assigned Carrier Frequency in MHz

6.2.2. Test Result



(i) Frequency Stability VS Voltage

Frequency / Channel Spacing	769.0875 MHz / 12.5 kHz				
Temperature, °C	25				
Voltage %	Voltage, V	Frequency, MHz	Frequency Stability, PPM	Spec (low) PPM	Spec (high) PPM
-20	6.000	769.087497	-0.004	-1.000	1.000
-15	6.370	769.087187	-0.407	-1.000	1.000
-10	6.750	769.087603	0.134	-1.000	1.000
-5	7.120	769.087078	-0.549	-1.000	1.000
0	7.500	769.087149	-0.456	-1.000	1.000
5	7.870	769.087339	-0.209	-1.000	1.000
10	8.250	769.087583	0.108	-1.000	1.000
15	8.620	769.087734	0.304	-1.000	1.000
20	9.000	769.087584	0.109	-1.000	1.000



(ii) Frequency Stability VS temperature

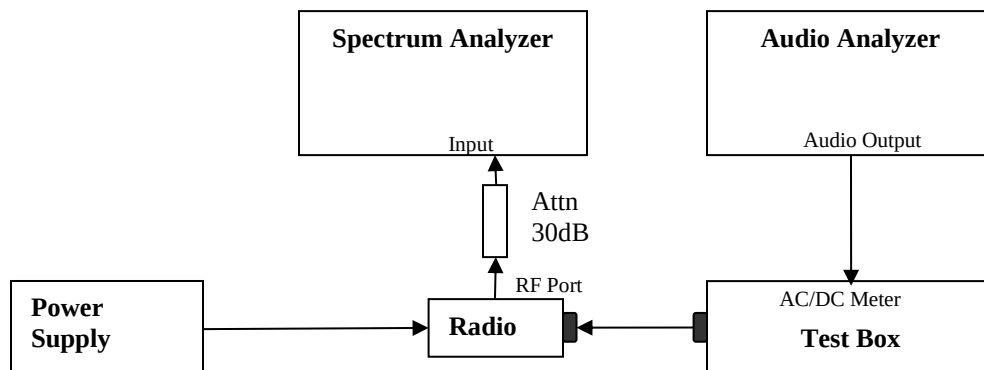
Frequency / Channel Spacing	769.0875 MHz / 12.5 kHz			
Voltage, V	7.5			
Temperature, °C	Frequency, MHz	Frequency Stability, PPM	Spec (low) PPM	Spec (high) PPM
-30	769.087073	-0.555	-1.000	1.000
-20	769.087455	-0.058	-1.000	1.000
-10	769.087586	0.112	-1.000	1.000
0	769.086976	-0.681	-1.000	1.000
10	769.087202	-0.387	-1.000	1.000
20	769.087498	-0.003	-1.000	1.000
30	769.087232	-0.348	-1.000	1.000
40	769.087917	0.542	-1.000	1.000
50	769.087647	0.192	-1.000	1.000
60	769.087656	0.202	-1.000	1.000

6.2.3. Test Limit

As per manufacturer declared spec +/- 1.0ppm

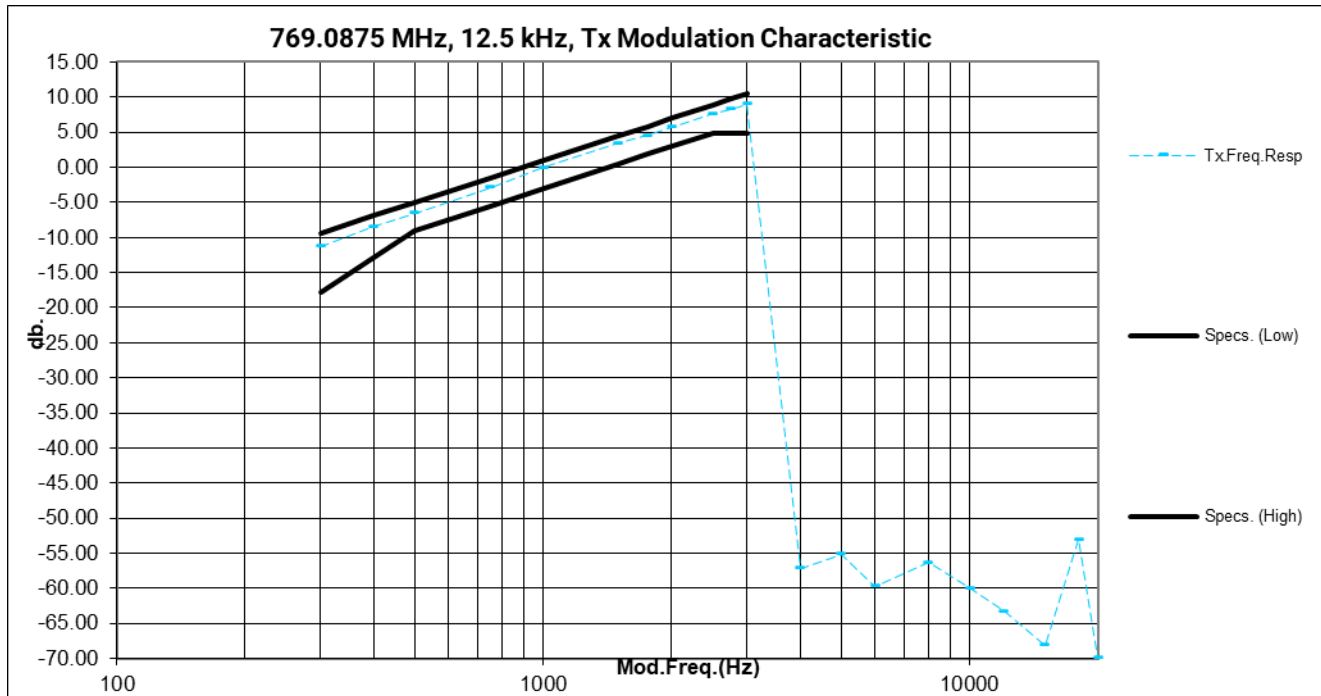
6.3. Modulation Characteristics

6.3.1. Test Setup

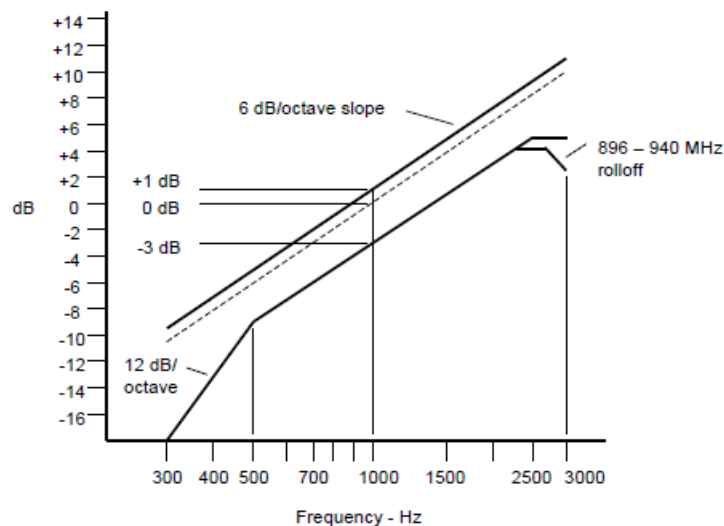


- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Path loss for the measurement included.
- 3) Set the audio bandwidth filter to 15 kHz and 50 kHz.
- 4) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 20% of the Full rated system deviation.
- 5) 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



6.3.3. Test Limit

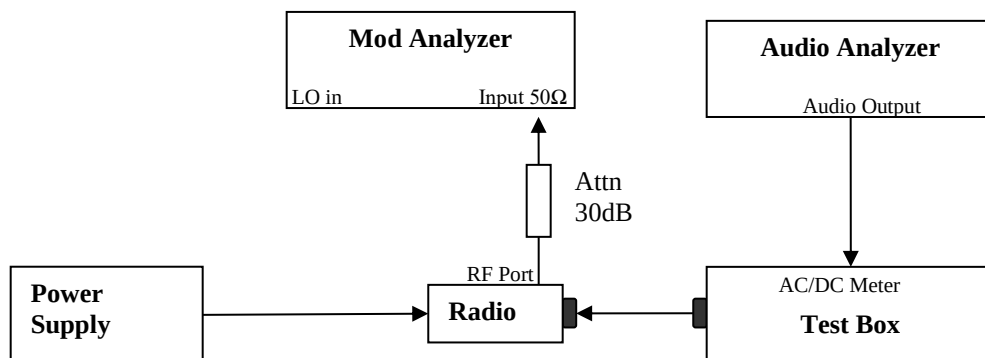


Note:

- 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.

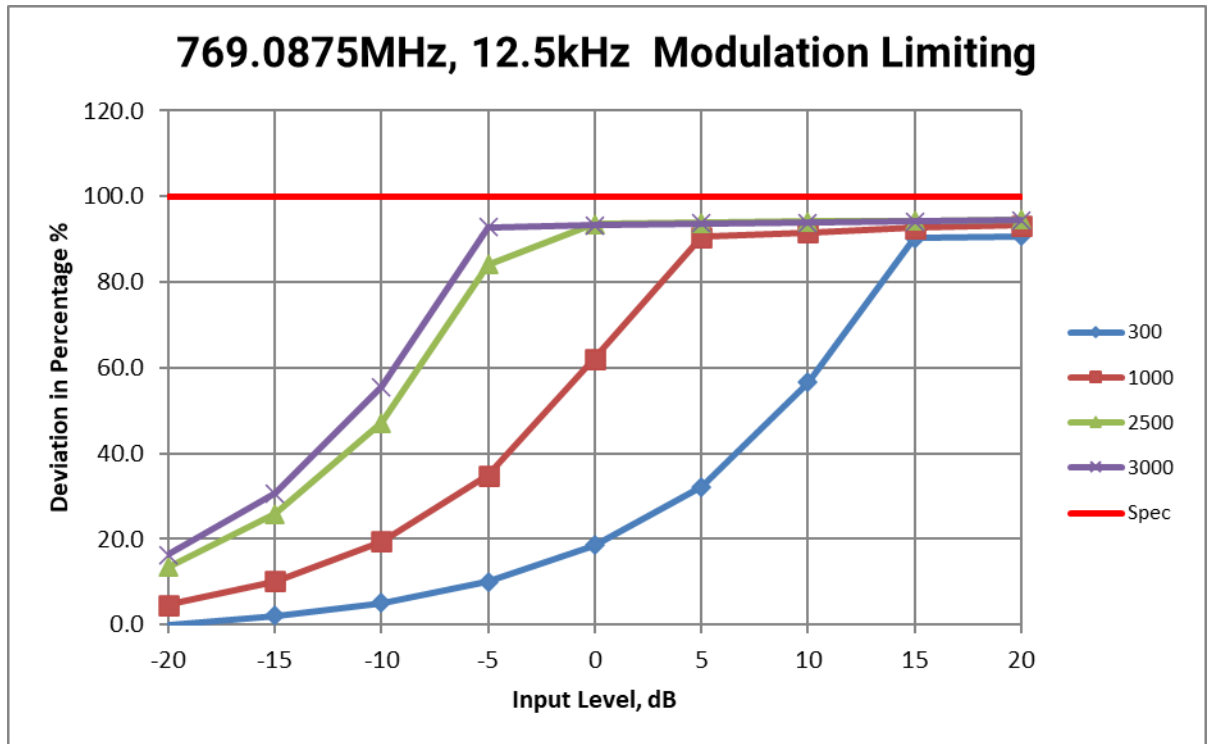
6.4. Modulation Limiting

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

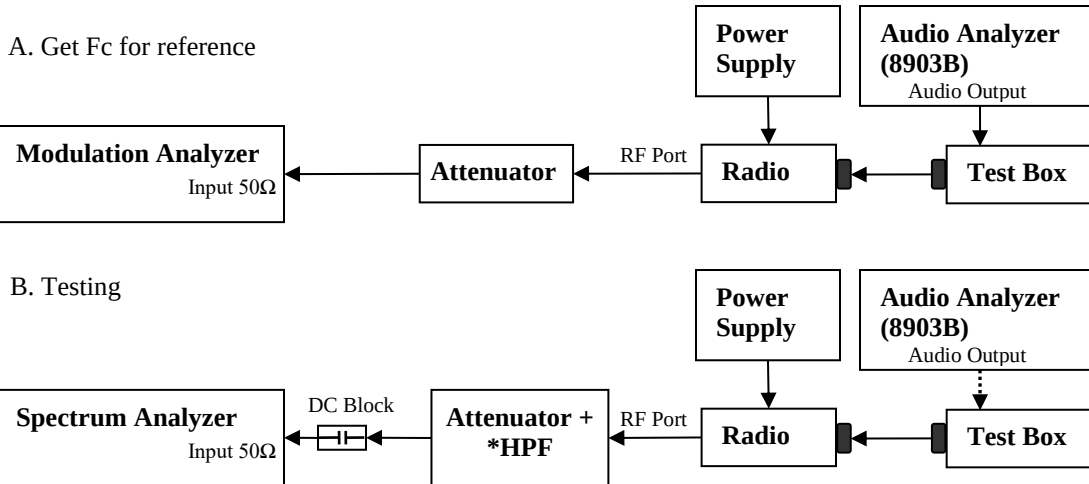


6.4.3. Test Limit

Modulation Limiting shall not exceed 100 percent.

6.5. Occupied Bandwidth

6.5.1. Test Setup (Analog)



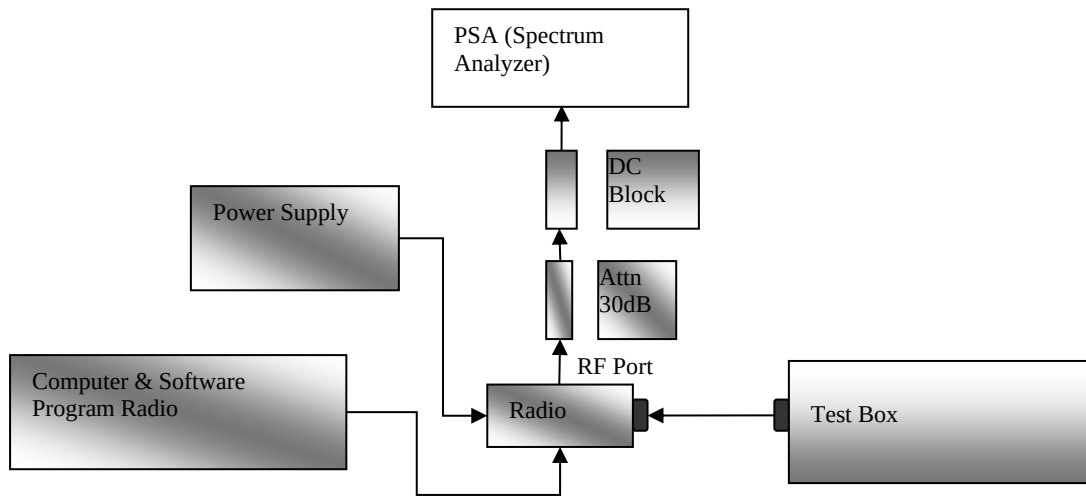
- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Set the audio bandwidth filter to 15 kHz low pass filter and 50 kHz high pass filter.
- 3) Transmit the radio and set the audio analyzer to 2.5 kHz audio frequency and 50% of the rated deviation. Up the amplitude by 16 dB. 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.

* 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) **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)

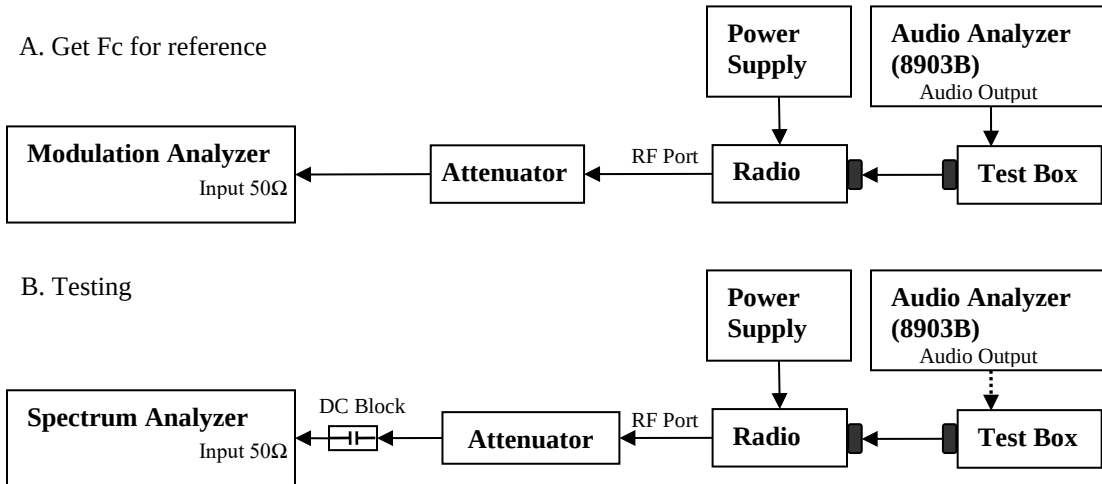
Not Applicable

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)



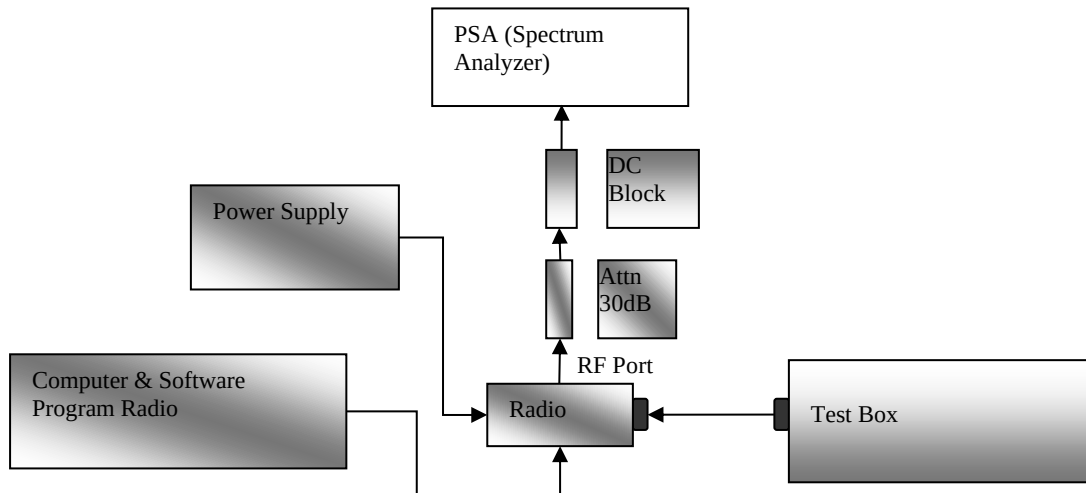
- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Set the audio bandwidth filter to 15 kHz low pass filter and 50 kHz high pass filter.
- 3) Transmit the radio and set the audio analyzer to 2.5 kHz audio frequency and 50% of the rated deviation. Up the amplitude by 16 dB. 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.

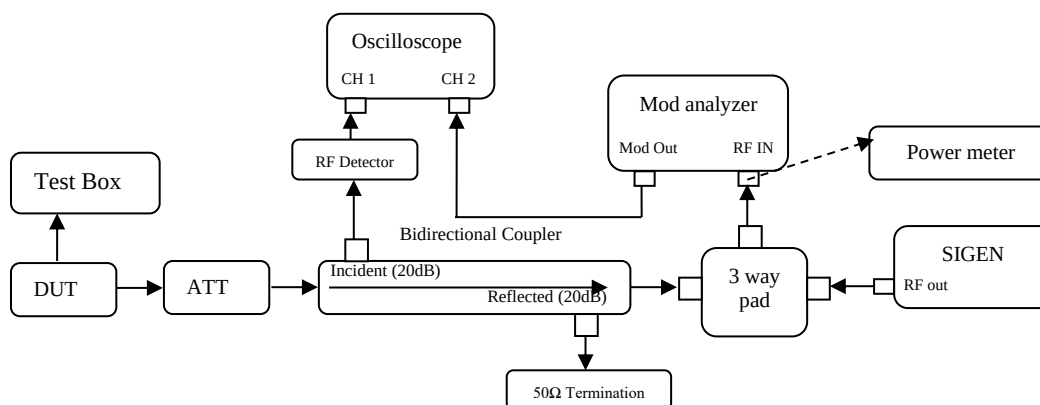
6.6.4. Test Result (Digital) **Not Applicable**

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.

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.

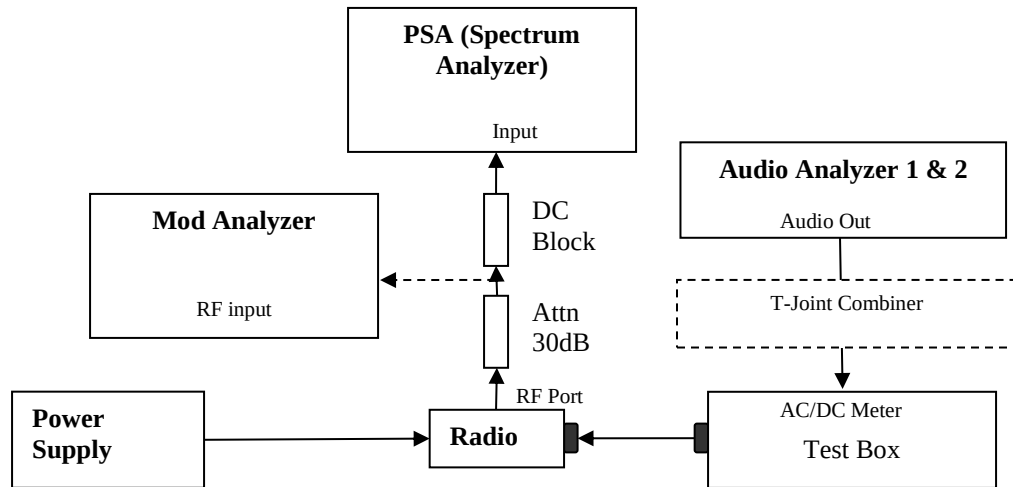
² During the time from the end of t_2 to the beginning of t_3 , the frequency difference must not exceed the limits specified in §90.213.

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.

6.8. 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

Mode	Analog Voice			
Frequency, MHz	769.0875			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-48.672	-48.129	-40
15.625	6.25	-76.599	-75.862	-60
21.875	6.25	-77.497	-77.181	-60
37.500	25	-73.418	-73.524	-60
62.500	25	-75.152	-75.511	-65
87.500	25	-77.936	-77.795	-65
150.000	100	-75.532	-75.822	-65
250.000	100	-80.201	-80.244	-65
350.000	100	-82.562	-82.444	-65
400k	30	-89.023	-87.947	-75
12M	30	-89.285	-89.633	-75

Mode	Analog Voice			
Frequency, MHz	774.8875			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-48.941	-48.470	-40
15.625	6.25	-76.258	-76.249	-60
21.875	6.25	-77.889	-77.270	-60
37.500	25	-73.651	-73.584	-60
62.500	25	-75.025	-75.209	-65
87.500	25	-77.917	-77.870	-65
150.000	100	-75.700	-75.632	-65
250.000	100	-80.408	-80.131	-65
350.000	100	-82.538	-82.503	-65
400k	30	-88.460	-88.138	-75
12M	30	-88.977	-89.589	-75

Mode	Analog Voice			
Frequency, MHz	799.0875			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-47.704	-47.201	-40
15.625	6.25	-75.699	-75.601	-60
21.875	6.25	-76.822	-77.100	-60
37.500	25	-73.535	-73.444	-60
62.500	25	-75.317	-75.403	-65
87.500	25	-77.921	-77.928	-65
150.000	100	-75.826	-75.794	-65
250.000	100	-80.459	-80.309	-65
350.000	100	-82.569	-82.506	-65
400k	30	-87.832	-88.524	-75
12M	30	-89.489	-89.436	-75

Mode	Analog Voice			
Frequency, MHz	804.9125			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-48.446	-47.708	-40
15.625	6.25	-76.004	-75.526	-60
21.875	6.25	-77.013	-76.923	-60
37.500	25	-73.189	-73.549	-60
62.500	25	-75.008	-75.367	-65
87.500	25	-77.969	-77.738	-65
150.000	100	-75.553	-75.714	-65
250.000	100	-80.287	-80.148	-65
350.000	100	-82.664	-82.619	-65
400k	30	-88.302	-87.986	-75
12M	30	-88.867	-89.098	-75

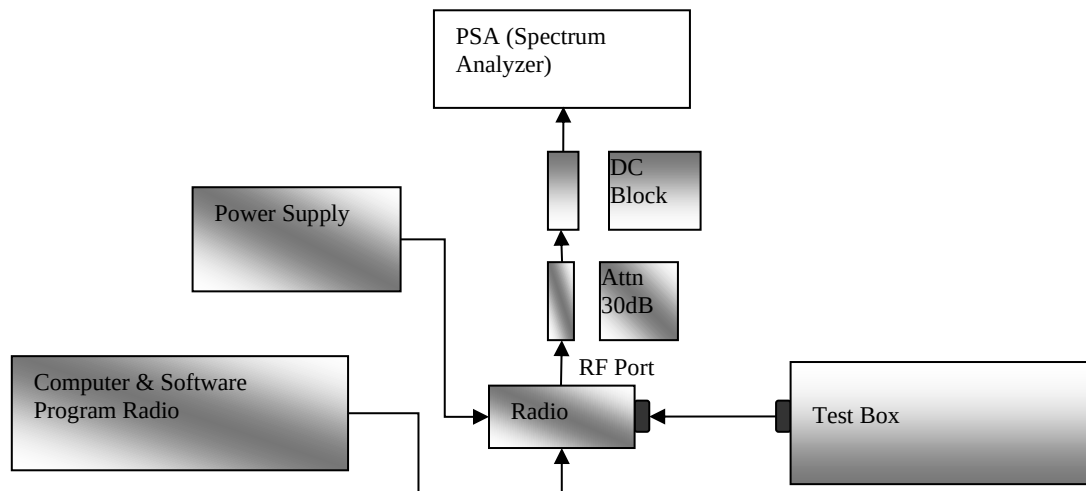
Mode	Analog Voice Encryption			
Frequency, MHz	769.0875			
Channel Spacing, kHz	20			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
15.625	6.25	-45.490	-43.640	-40
21.875	6.25	-66.540	-66.150	-60
37.500	25	-73.580	-73.160	-60
62.500	25	-75.510	-75.050	-65
87.500	25	-77.880	-77.830	-65
150.000	100	-75.660	-75.780	-65
250.000	100	-80.030	-80.170	-65
350.000	100	-82.510	-82.290	-65
400k	30	-88.730	-88.280	-75
12M	30	-89.040	-89.550	-75

Mode	Analog Voice Encryption			
Frequency, MHz	774.8875			
Channel Spacing, kHz	20			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
15.625	6.25	-45.330	-43.420	-40
21.875	6.25	-67.820	-66.270	-60
37.500	25	-73.700	-73.640	-60
62.500	25	-75.260	-75.320	-65
87.500	25	-77.910	-77.760	-65
150.000	100	-75.880	-75.670	-65
250.000	100	-80.270	-80.330	-65
350.000	100	-82.500	-82.490	-65
400k	30	-88.110	-87.860	-75
12M	30	-89.390	-89.270	-75

Mode	Analog Voice Encryption			
Frequency, MHz	799.0875			
Channel Spacing, kHz	20			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
15.625	6.25	-45.000	-42.960	-40
21.875	6.25	-65.290	-65.250	-60
37.500	25	-73.450	-73.510	-60
62.500	25	-75.310	-75.350	-65
87.500	25	-77.900	-77.970	-65
150.000	100	-75.720	-75.910	-65
250.000	100	-80.460	-80.420	-65
350.000	100	-82.240	-82.510	-65
400k	30	-87.810	-88.150	-75
12M	30	-89.160	-89.010	-75

Mode	Analog Voice Encryption			
Frequency, MHz	804.9125			
Channel Spacing, kHz	20			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
15.625	6.25	-44.760	-43.910	-40
21.875	6.25	-65.720	-65.450	-60
37.500	25	-73.340	-73.380	-60
62.500	25	-75.320	-75.220	-65
87.500	25	-77.960	-78.070	-65
150.000	100	-75.640	-75.780	-65
250.000	100	-80.070	-80.180	-65
350.000	100	-82.370	-82.320	-65
400k	30	-88.380	-87.850	-75
12M	30	-88.900	-88.520	-75

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

Mode	Digital Data			
Frequency, MHz	769.0875			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-42.190	-40.340	-40
15.625	6.25	-76.028	-76.083	-60
21.875	6.25	-77.408	-76.952	-60
37.500	25	-73.602	-73.313	-60
62.500	25	-75.234	-75.155	-65
87.500	25	-77.843	-77.825	-65
150.000	100	-75.855	-75.518	-65
250.000	100	-80.209	-80.100	-65
350.000	100	-82.717	-82.754	-65
400k	30	-88.213	-88.577	-75
12M	30	-89.827	-89.939	-75

Mode	Digital Data			
Frequency, MHz	774.8875			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-43.400	-41.940	-40
15.625	6.25	-76.436	-76.150	-60
21.875	6.25	-77.300	-77.932	-60
37.500	25	-73.964	-73.748	-60
62.500	25	-75.094	-75.352	-65
87.500	25	-77.823	-77.857	-65
150.000	100	-75.672	-75.620	-65
250.000	100	-80.391	-80.236	-65
350.000	100	-82.508	-82.695	-65
400k	30	-88.296	-88.400	-75
12M	30	-90.154	-89.230	-75

Mode	Digital Data			
Frequency, MHz	799.0875			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-42.060	-40.950	-40
15.625	6.25	-75.674	-75.886	-60
21.875	6.25	-77.670	-76.936	-60
37.500	25	-73.440	-73.504	-60
62.500	25	-75.124	-75.354	-65
87.500	25	-78.008	-78.049	-65
150.000	100	-75.953	-76.017	-65
250.000	100	-80.461	-80.292	-65
350.000	100	-82.491	-82.621	-65
400k	30	-88.136	-87.808	-75
12M	30	-89.105	-89.483	-75

Mode	Digital Data			
Frequency, MHz	804.9125			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-41.490	-40.420	-40
15.625	6.25	-76.120	-75.580	-60
21.875	6.25	-77.248	-77.195	-60
37.500	25	-73.411	-73.542	-60
62.500	25	-75.108	-75.347	-65
87.500	25	-77.690	-77.764	-65
150.000	100	-75.851	-75.734	-65
250.000	100	-80.254	-80.179	-65
350.000	100	-82.551	-82.677	-65
400k	30	-87.518	-88.572	-75
12M	30	-89.068	-89.595	-75

Mode	Digital Voice			
Frequency, MHz	769.0875			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-47.231	-44.894	-40
15.625	6.25	-75.838	-75.444	-60
21.875	6.25	-77.366	-76.472	-60
37.500	25	-73.375	-73.168	-60
62.500	25	-75.467	-75.369	-65
87.500	25	-77.877	-77.703	-65
150.000	100	-75.707	-75.784	-65
250.000	100	-80.320	-79.990	-65
350.000	100	-82.586	-82.498	-65
400k	30	-88.029	-88.500	-75
12M	30	-89.277	-89.593	-75

Mode	Digital Voice			
Frequency, MHz	774.8875			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-47.666	-46.470	-40
15.625	6.25	-76.079	-75.953	-60
21.875	6.25	-77.598	-76.795	-60
37.500	25	-73.620	-73.455	-60
62.500	25	-75.051	-75.494	-65
87.500	25	-78.040	-77.927	-65
150.000	100	-75.699	-75.638	-65
250.000	100	-80.085	-80.195	-65
350.000	100	-82.524	-82.586	-65
400k	30	-87.755	-88.498	-75
12M	30	-89.654	-89.733	-75

Mode	Digital Voice			
Frequency, MHz	799.0875			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-56.105	-47.052	-40
15.625	6.25	-75.517	-75.222	-60
21.875	6.25	-76.504	-76.417	-60
37.500	25	-73.647	-73.318	-60
62.500	25	-75.340	-75.204	-65
87.500	25	-78.018	-77.901	-65
150.000	100	-75.853	-75.786	-65
250.000	100	-80.283	-80.537	-65
350.000	100	-82.605	-82.401	-65
400k	30	-88.218	-87.684	-75
12M	30	-89.481	-89.280	-75

Mode	Digital Voice			
Frequency, MHz	804.9125			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-50.583	-44.746	-40
15.625	6.25	-75.869	-75.933	-60
21.875	6.25	-76.726	-76.772	-60
37.500	25	-73.440	-73.110	-60
62.500	25	-75.067	-74.975	-65
87.500	25	-77.695	-77.828	-65
150.000	100	-75.831	-75.827	-65
250.000	100	-80.127	-80.341	-65
350.000	100	-82.499	-82.560	-65
400k	30	-87.944	-88.188	-75
12M	30	-89.272	-89.253	-75

Mode	Digital Voice Encryption			
Frequency, MHz	769.0875			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-43.827	-41.207	-40
15.625	6.25	-76.805	-76.587	-60
21.875	6.25	-78.068	-77.901	-60
37.500	25	-74.101	-74.148	-60
62.500	25	-75.942	-75.827	-65
87.500	25	-78.565	-78.644	-65
150.000	100	-76.438	-76.157	-65
250.000	100	-80.808	-80.717	-65
350.000	100	-83.232	-83.222	-65
400k	30	-88.776	-88.727	-75
12M	30	-89.912	-90.623	-75

Mode	Digital Voice Encryption			
Frequency, MHz	774.8875			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-44.650	-43.500	-40
15.625	6.25	-76.846	-76.712	-60
21.875	6.25	-77.920	-78.321	-60
37.500	25	-74.024	-74.274	-60
62.500	25	-75.729	-75.498	-65
87.500	25	-78.398	-78.095	-65
150.000	100	-76.216	-76.197	-65
250.000	100	-80.705	-80.511	-65
350.000	100	-82.666	-83.077	-65
400k	30	-88.798	-88.695	-75
12M	30	-89.632	-89.779	-75

Mode	Digital Voice Encryption			
Frequency, MHz	799.0875			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-47.520	-43.070	-40
15.625	6.25	-75.659	-75.248	-60
21.875	6.25	-76.819	-77.154	-60
37.500	25	-73.005	-72.934	-60
62.500	25	-74.932	-74.969	-65
87.500	25	-77.257	-77.769	-65
150.000	100	-75.270	-75.433	-65
250.000	100	-79.705	-79.750	-65
350.000	100	-81.885	-81.923	-65
400k	30	-87.293	-87.592	-75
12M	30	-88.035	-88.387	-75

Mode	Digital Voice Encryption			
Frequency, MHz	804.9125			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-45.410	-42.550	-40
15.625	6.25	-75.616	-75.474	-60
21.875	6.25	-76.898	-76.888	-60
37.500	25	-73.428	-73.641	-60
62.500	25	-75.343	-75.277	-65
87.500	25	-77.975	-78.045	-65
150.000	100	-75.733	-75.839	-65
250.000	100	-80.075	-80.260	-65
350.000	100	-82.288	-82.432	-65
400k	30	-88.037	-87.980	-75
12M	30	-88.883	-88.516	-75

Mode	Phase II			
Frequency, MHz	769.0875			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-45.820	-42.510	-40
15.625	6.25	-80.029	-77.914	-60
21.875	6.25	-81.043	-78.107	-60
37.500	25	-76.346	-76.488	-60
62.500	25	-78.696	-77.960	-65
87.500	25	-80.852	-80.402	-65
150.000	100	-78.065	-77.920	-65
250.000	100	-82.157	-82.028	-65
350.000	100	-83.892	-84.007	-65
400k	30	-89.816	-89.397	-75
12M	30	-89.527	-89.859	-75

Mode	Phase II			
Frequency, MHz	774.8875			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-46.490	-42.750	-40
15.625	6.25	-82.349	-77.613	-60
21.875	6.25	-80.994	-78.351	-60
37.500	25	-76.378	-76.491	-60
62.500	25	-78.099	-77.780	-65
87.500	25	-80.561	-80.824	-65
150.000	100	-78.242	-78.334	-65
250.000	100	-81.856	-81.925	-65
350.000	100	-83.861	-83.974	-65
400k	30	-89.373	-89.295	-75
12M	30	-89.268	-89.336	-75

Mode	Phase II			
Frequency, MHz	799.0875			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-51.440	-49.310	-40
15.625	6.25	-77.969	-77.247	-60
21.875	6.25	-79.277	-84.449	-60
37.500	25	-76.279	-76.345	-60
62.500	25	-78.235	-78.135	-65
87.500	25	-81.245	-80.486	-65
150.000	100	-78.096	-78.389	-65
250.000	100	-82.160	-82.237	-65
350.000	100	-83.835	-84.000	-65
400k	30	-89.043	-89.304	-75
12M	30	-89.273	-89.635	-75

Mode	Phase II			
Frequency, MHz	804.9125			
Channel Spacing, kHz	12.5			
Offset (kHz)	Meas BW (kHz)	Lower	Upper	Spec (dB)
9.375	6.25	-47.900	-40.230	-40
15.625	6.25	-77.086	-76.484	-60
21.875	6.25	-77.706	-84.983	-60
37.500	25	-76.245	-76.310	-60
62.500	25	-77.956	-78.218	-65
87.500	25	-80.510	-80.315	-65
150.000	100	-78.215	-78.410	-65
250.000	100	-81.948	-81.835	-65
350.000	100	-83.805	-83.773	-65
400k	30	-89.221	-88.950	-75
12M	30	-89.183	-89.107	-75

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

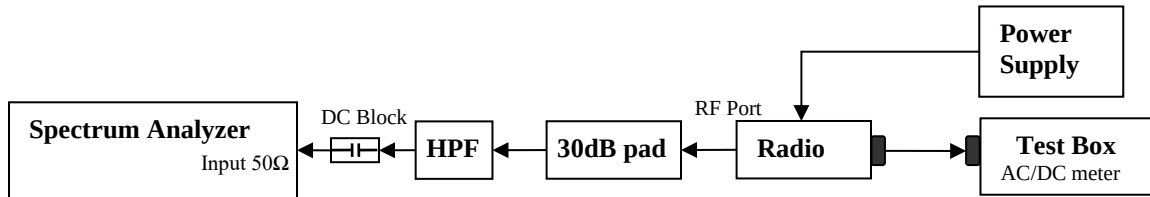
Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP (dBc)
9.375	6.25	-40
15.625	6.25	-60
21.875	6.25	-60
37.5	25	-60
62.5	25	-65
87.5	25	-65
150	100	-65
250	100	-65
350.00	100	-65
>400 kHz to 12 MHz	30 (s)	-80
12 MHz to paired receive band	30 (s)	-80
In the paired receive band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

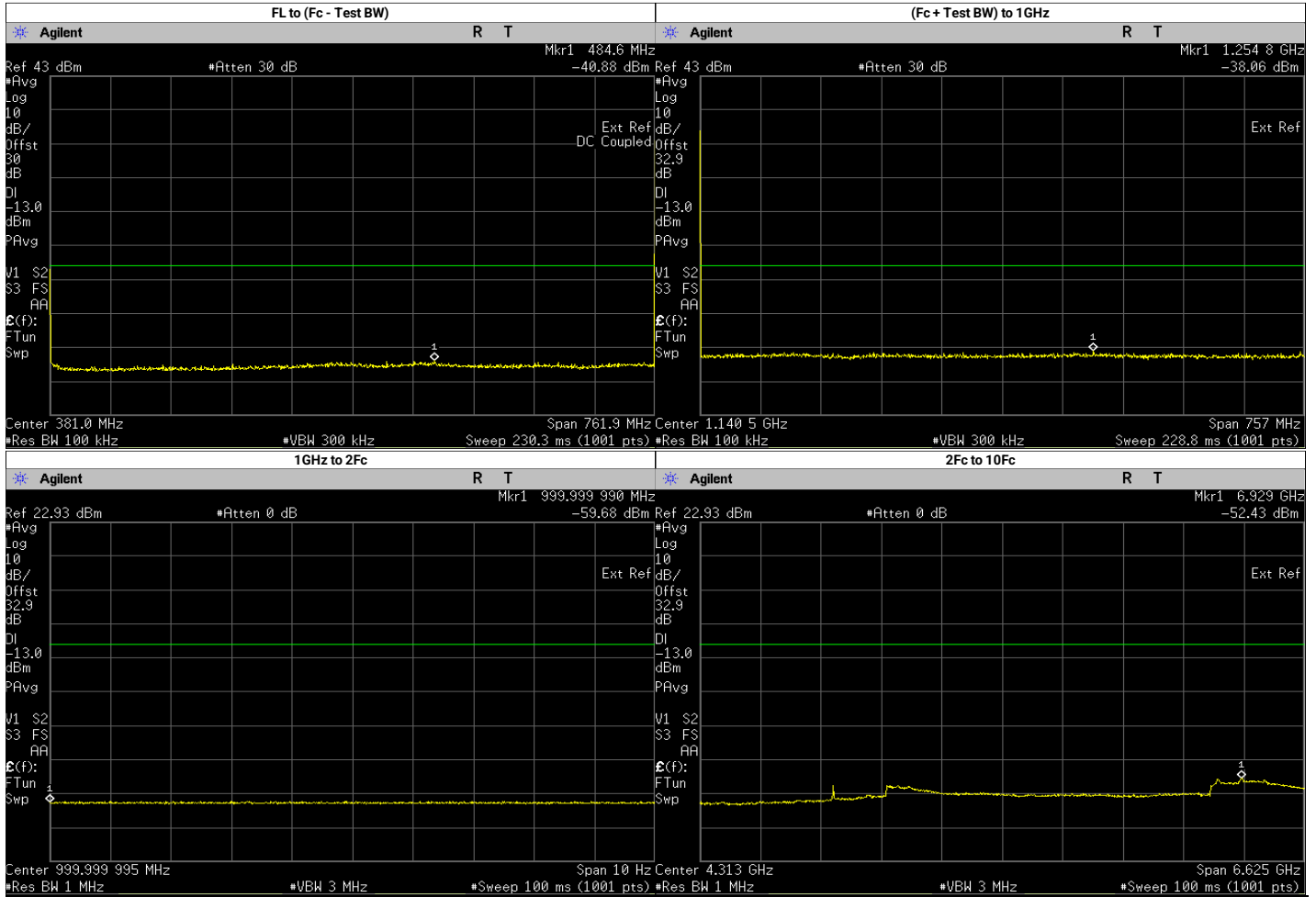
6.9.1. Test Setup



- 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.

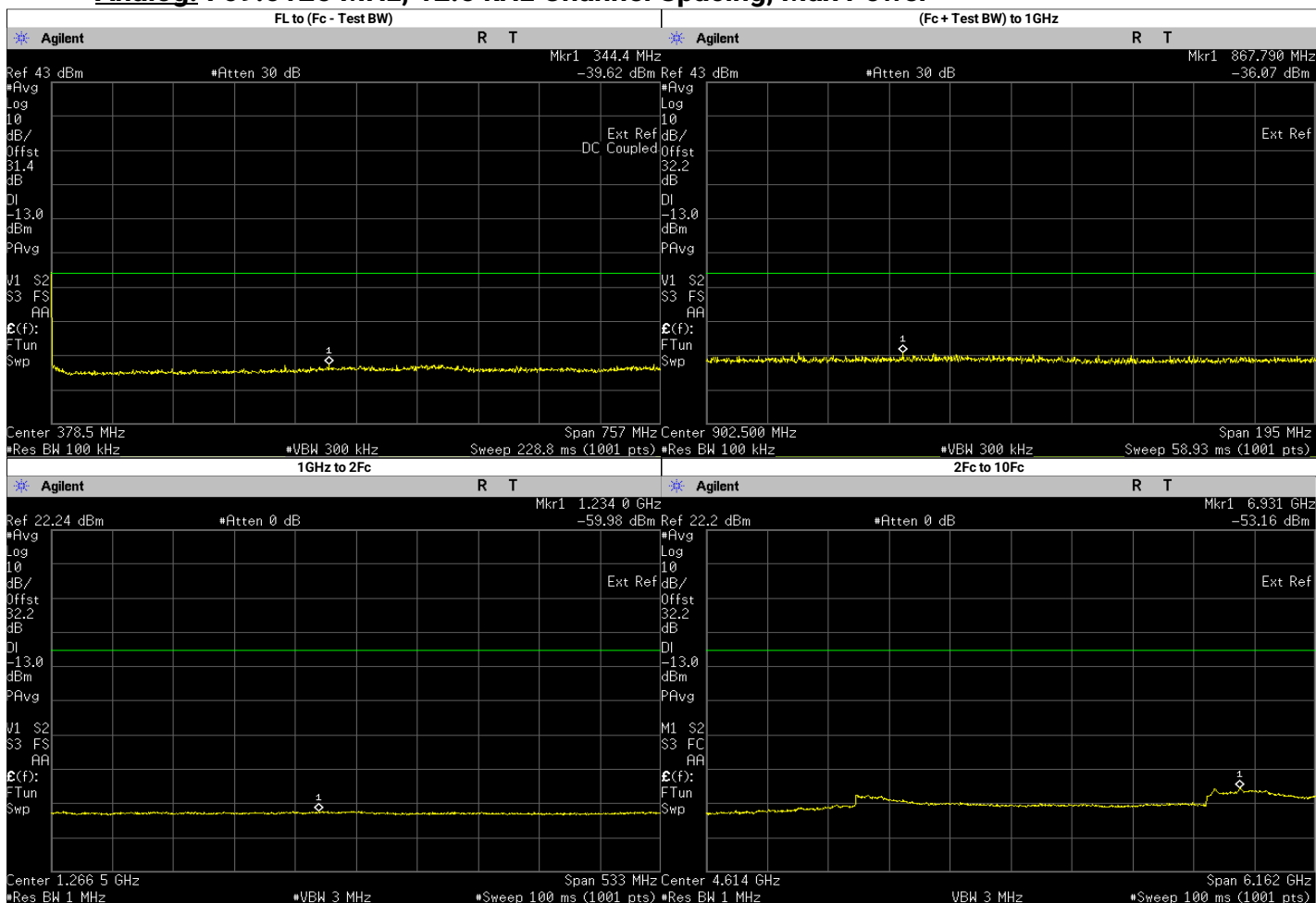
6.9.2. Test Result (Analog)

Analog: 762.0125 MHz, 12.5 kHz Channel Spacing, Max Power
Not for FCC review



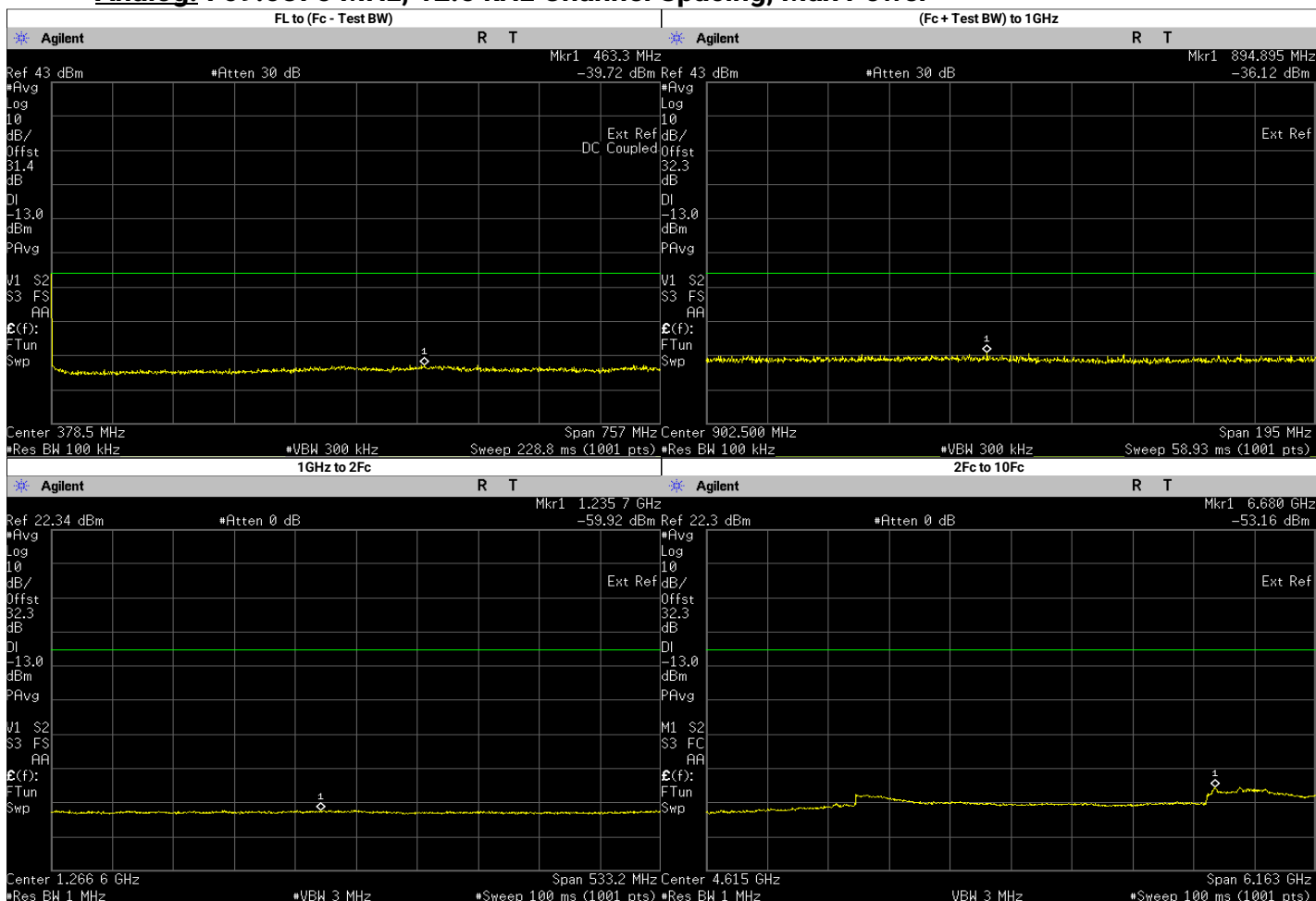
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	484.6000	-40.8810	-13	PASS
(Fc + Test BW) to 1GHz	1254.8470	-38.0600	-13	PASS
1GHz to 2Fc	999.9999	-59.6800	-13	PASS
2Fc to 10Fc	6929.4870	-52.4300	-13	PASS
	1524.0250	-59.5641	-13	PASS
	2286.0370	-59.1332	-13	PASS
	3048.0500	-54.7082	-13	PASS
	3810.0620	-56.8963	-13	PASS
	4572.0750	-57.4303	-13	PASS
	5334.0870	-57.5250	-13	PASS
	6096.1000	-57.1564	-13	PASS
	6858.1130	-53.7721	-13	PASS
	7620.1250	-55.5528	-13	PASS

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



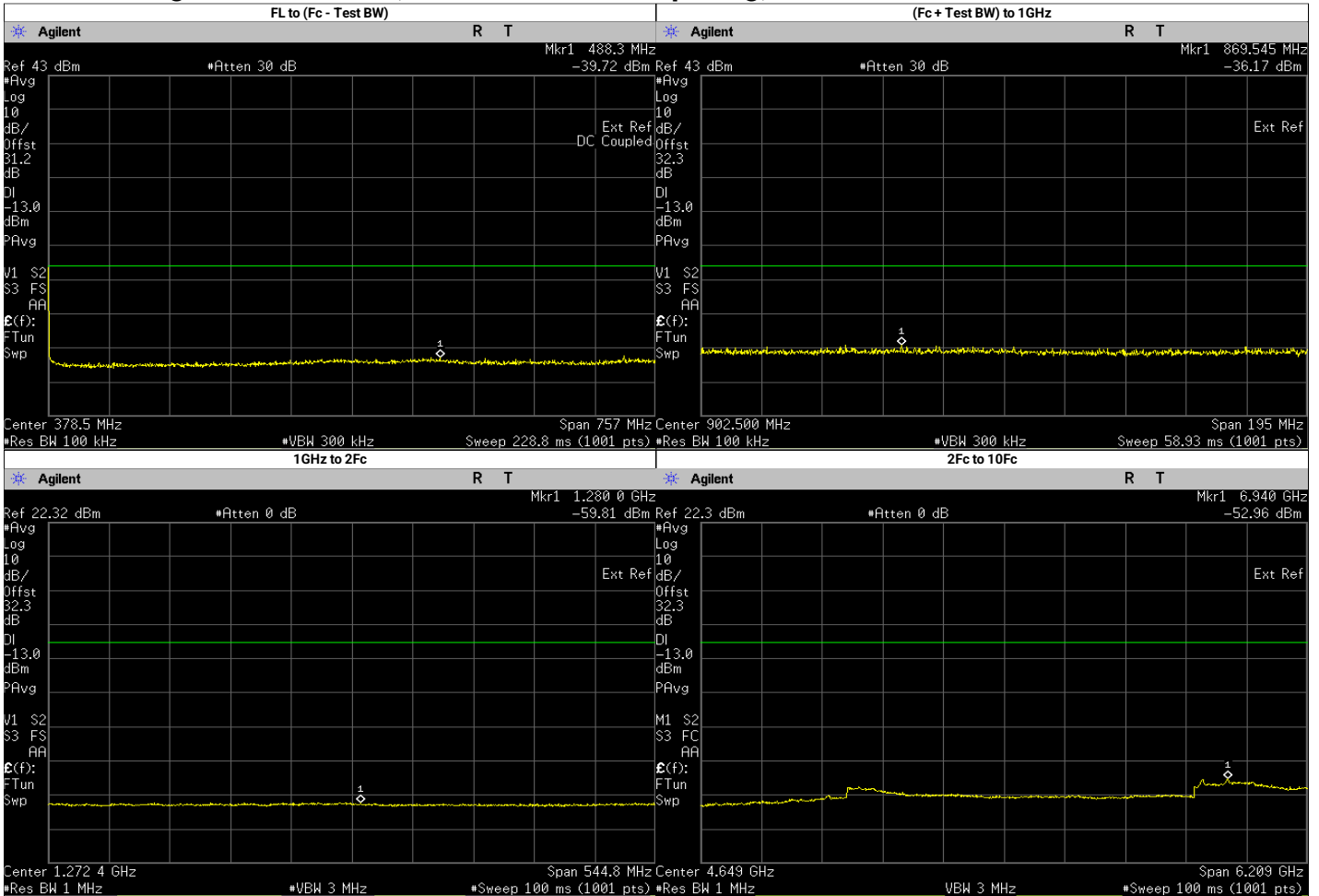
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	344.4000	-39.6250	-13	PASS
(Fc + Test BW) to 1GHz	867.7900	-36.0700	-13	PASS
1GHz to 2Fc	1233.9980	-59.9800	-13	PASS
2Fc to 10Fc	6931.0012	-53.1600	-13	PASS
	1538.0250	-60.2982	-13	PASS
	2307.0370	-59.8095	-13	PASS
	3076.0500	-55.7132	-13	PASS
	3845.0620	-57.7762	-13	PASS
	4614.0750	-57.4700	-13	PASS
	5383.0870	-58.1178	-13	PASS
	6152.1000	-58.0620	-13	PASS
	6921.1130	-53.6098	-13	PASS
	7690.1250	-55.4842	-13	PASS

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



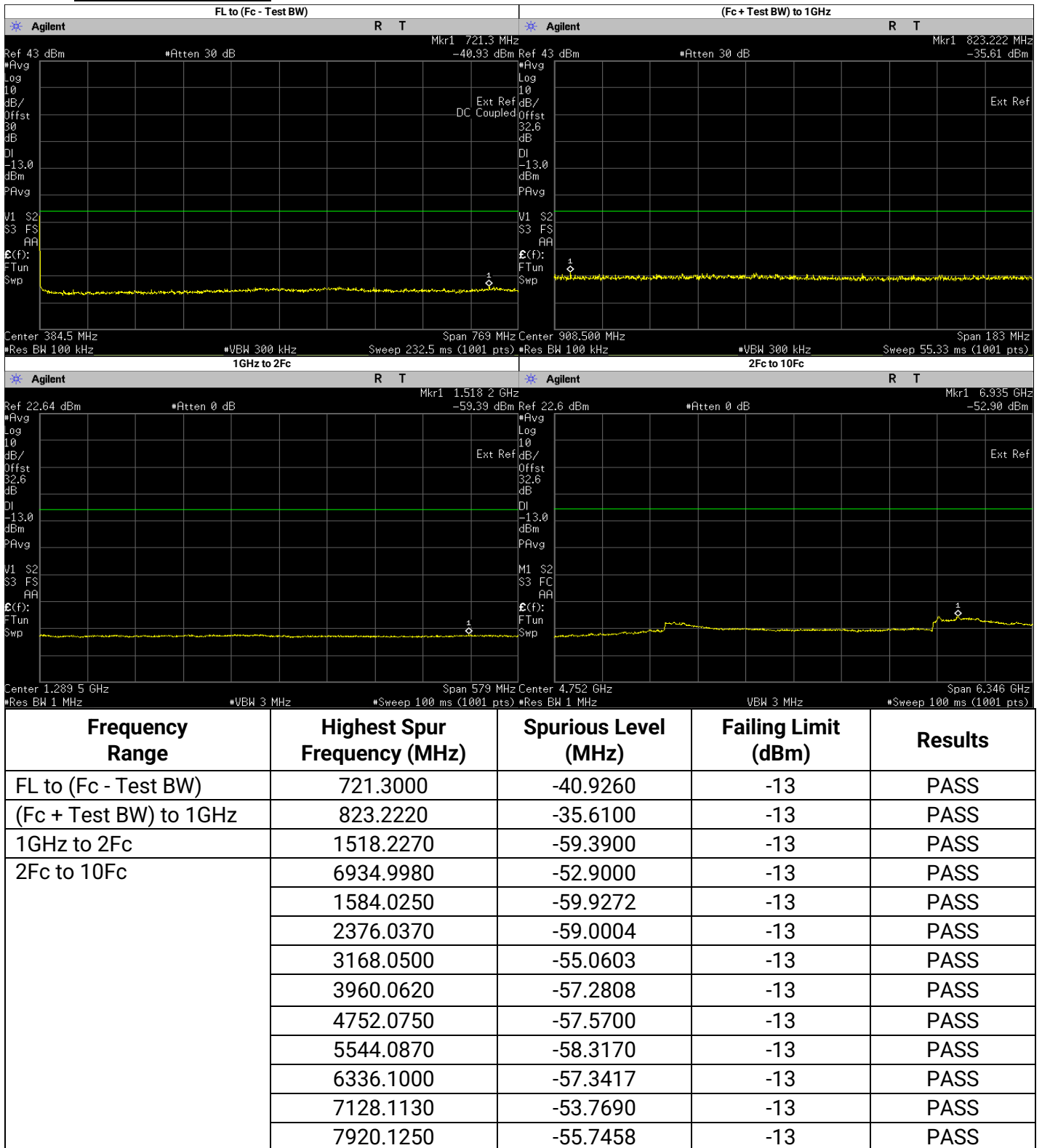
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	463.3000	-39.7210	-13	PASS
(Fc + Test BW) to 1GHz	894.8950	-36.1200	-13	PASS
1GHz to 2Fc	1235.6630	-59.9200	-13	PASS
2Fc to 10Fc	6680.0302	-53.1600	-13	PASS
	1538.1750	-60.1152	-13	PASS
	2307.2620	-59.7327	-13	PASS
	3076.3500	-55.5360	-13	PASS
	3845.4370	-57.8638	-13	PASS
	4614.5250	-58.2400	-13	PASS
	5383.6130	-58.2730	-13	PASS
	6152.7000	-57.9471	-13	PASS
	6921.7880	-53.4242	-13	PASS
	7690.8750	-55.4510	-13	PASS

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

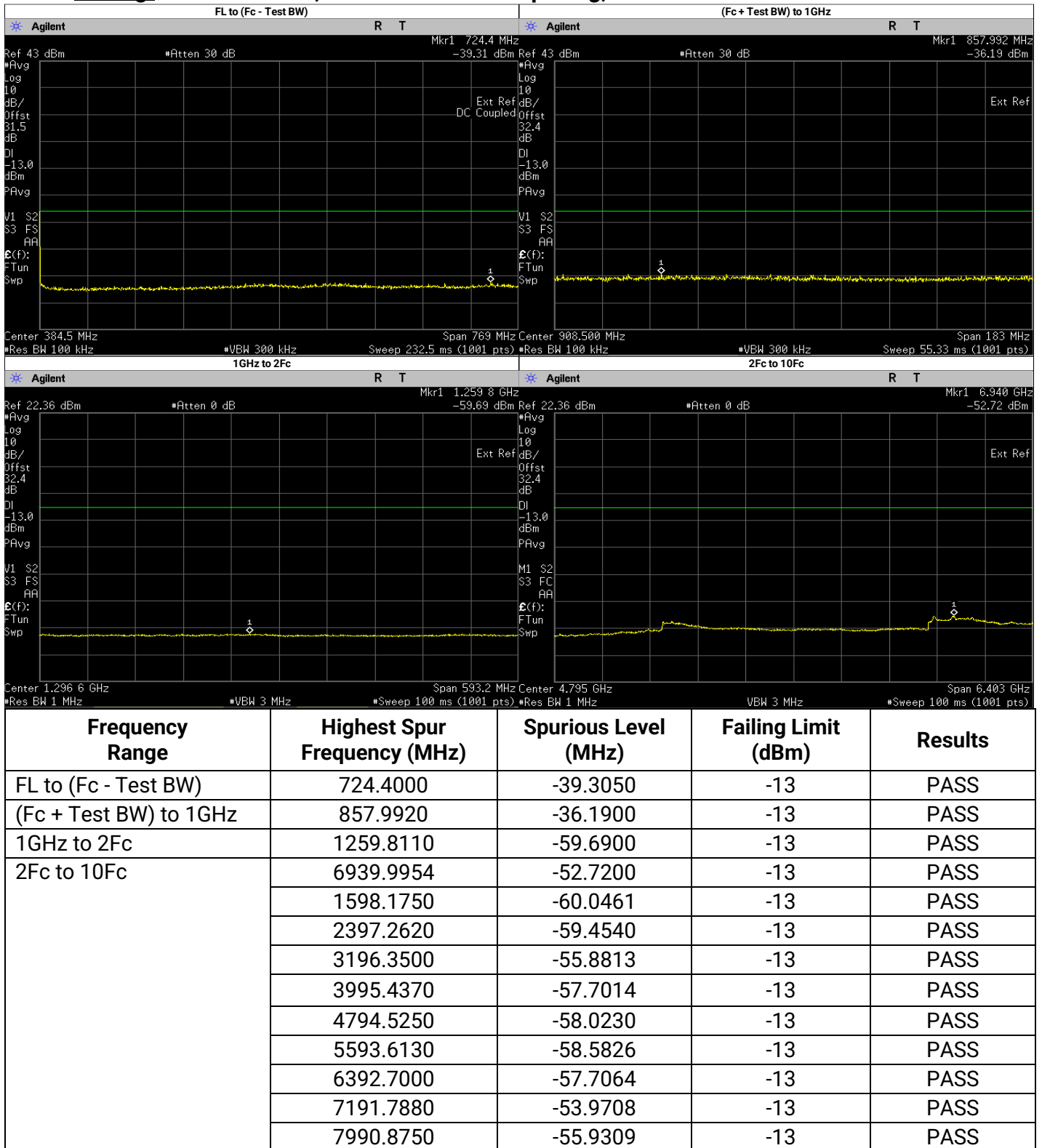


Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	488.3000	-39.7160	-13	PASS
(Fc + Test BW) to 1GHz	869.5450	-36.1700	-13	PASS
1GHz to 2Fc	1280.0140	-59.8100	-13	PASS
2Fc to 10Fc	6939.9630	-52.9600	-13	PASS
	1549.7750	-60.0634	-13	PASS
	2324.6620	-59.6433	-13	PASS
	3099.5500	-55.6737	-13	PASS
	3874.4370	-57.7049	-13	PASS
	4649.3250	-58.1940	-13	PASS
	5424.2120	-58.0784	-13	PASS
	6199.1000	-58.0631	-13	PASS
	6973.9880	-54.2022	-13	PASS
	7748.8750	-55.4974	-13	PASS

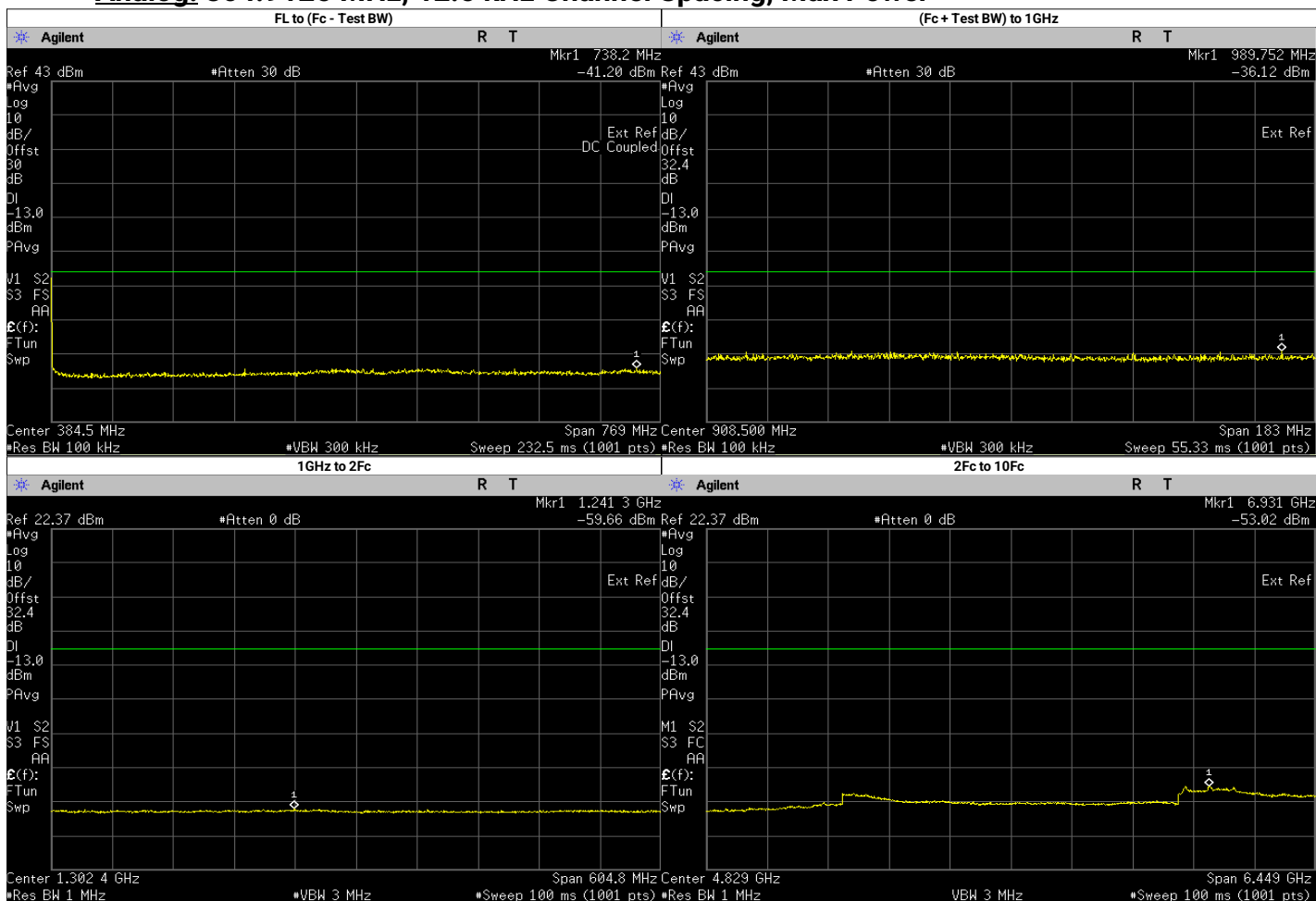
Analog: 792.0125 MHz, 12.5 kHz Channel Spacing, Max Power
Not for FCC review



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



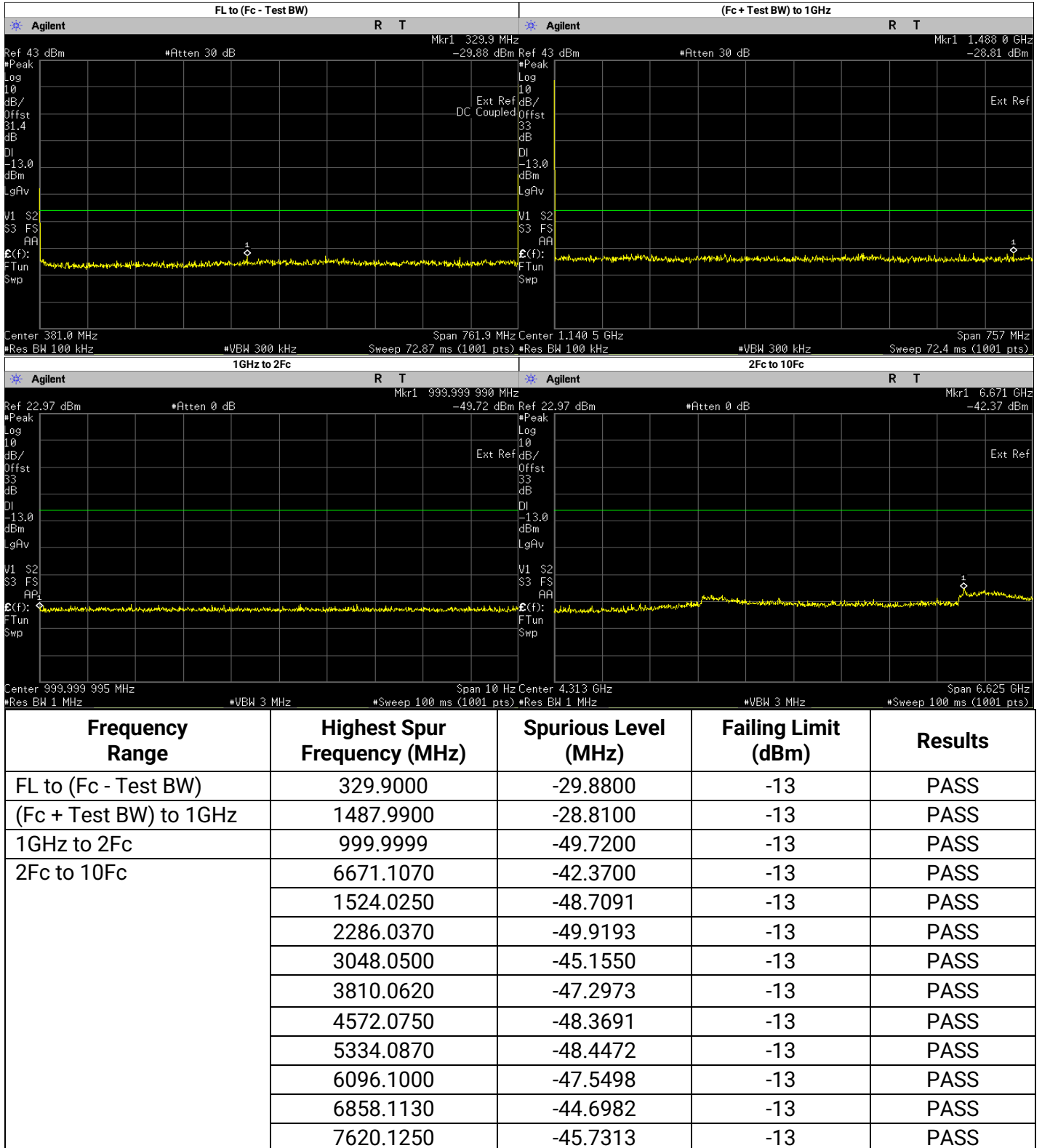
Analog: 804.9125 MHz, 12.5 kHz Channel Spacing, Max Power



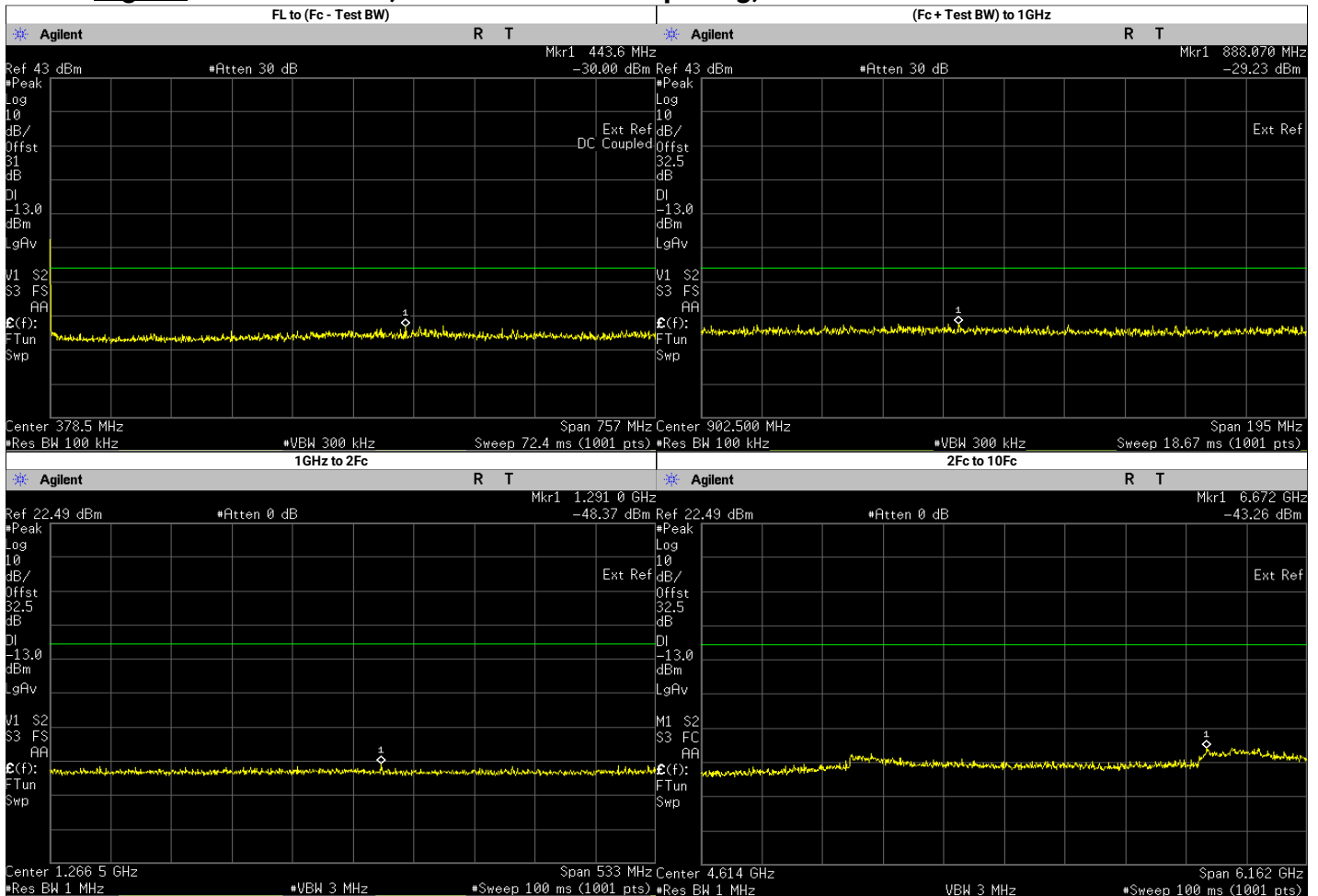
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	738.2000	-41.2000	-13	PASS
(Fc + Test BW) to 1GHz	989.7520	-36.1200	-13	PASS
1GHz to 2Fc	1241.3250	-59.6600	-13	PASS
2Fc to 10Fc	6931.0001	-53.0200	-13	PASS
	1609.8250	-60.2201	-13	PASS
	2414.7380	-59.4197	-13	PASS
	3219.6500	-55.8925	-13	PASS
	4024.5620	-57.7449	-13	PASS
	4829.4750	-58.2980	-13	PASS
	5634.3870	-58.3244	-13	PASS
	6439.3000	-57.6822	-13	PASS
	7244.2120	-54.7924	-13	PASS
	8049.1250	-55.9030	-13	PASS

6.9.3. Test Result (Digital)

Digital: 762.0125 MHz, 12.5 kHz Channel Spacing, Max Power Not for FCC review

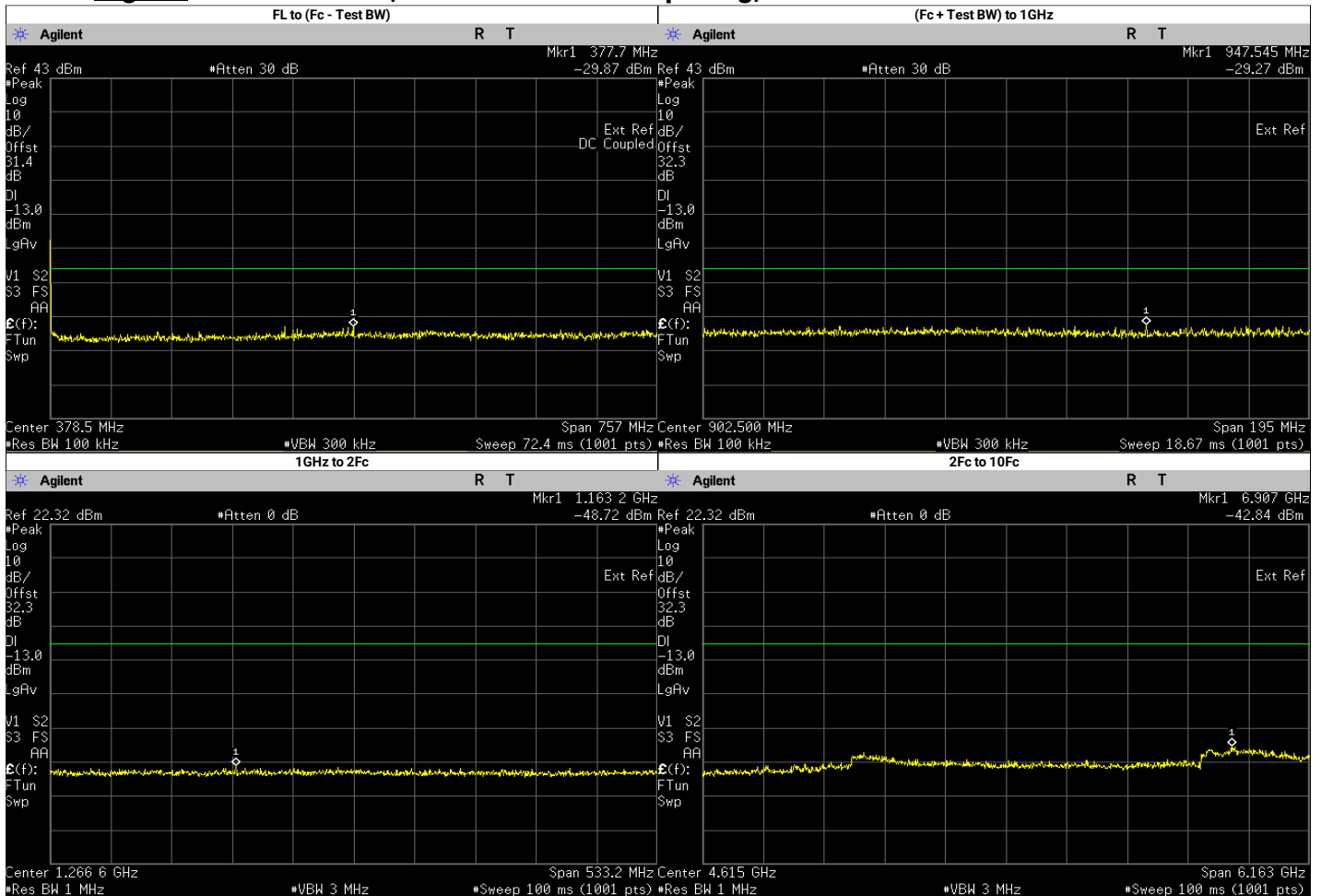


Digital: 769.0125 MHz, 12.5 kHz Channel Spacing, Max Power



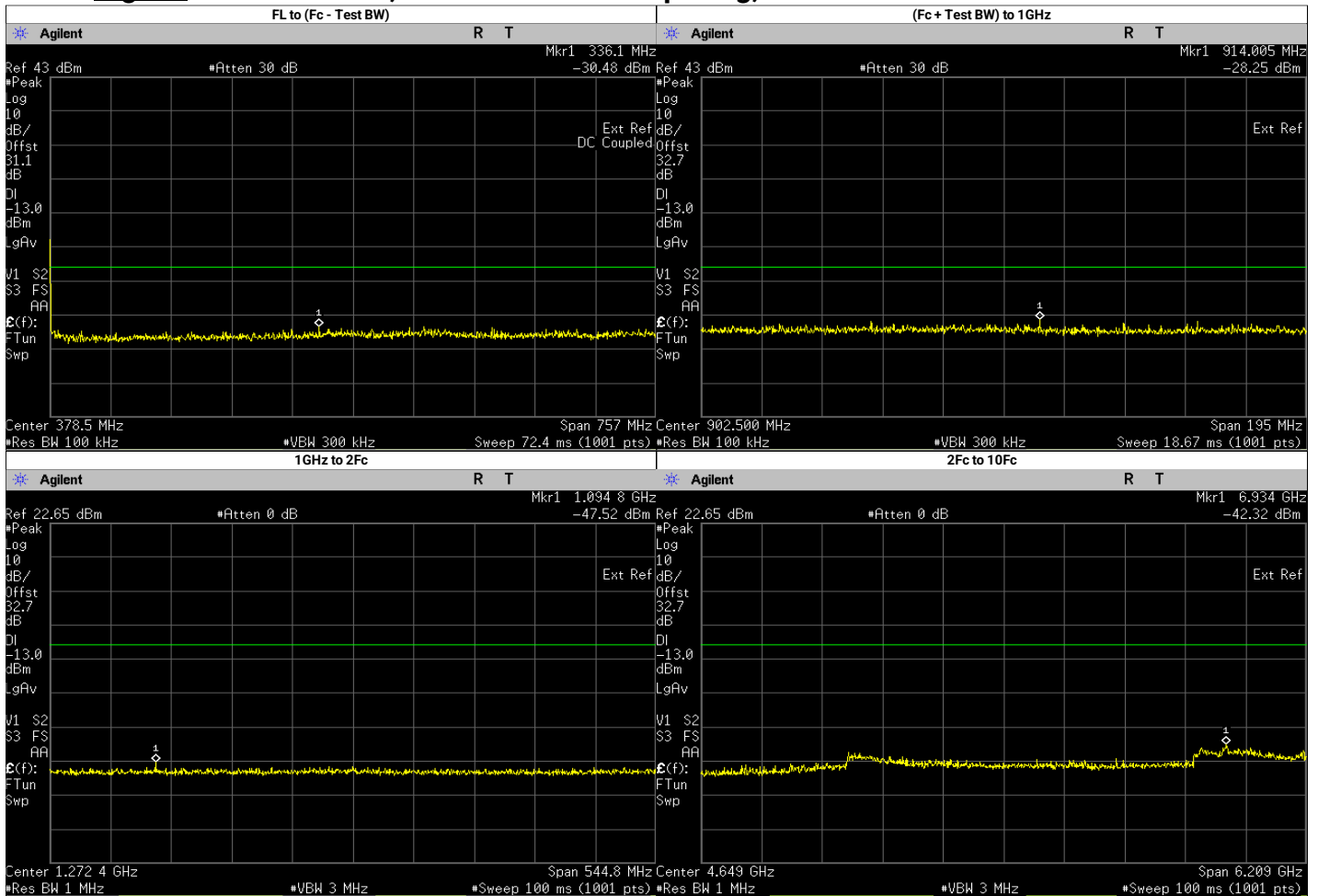
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	443.6000	-29.9960	-13	PASS
(Fc + Test BW) to 1GHz	888.0700	-29.2300	-13	PASS
1GHz to 2Fc	1291.0320	-48.3700	-13	PASS
2Fc to 10Fc	6672.0015	-43.2600	-13	PASS
	1538.0250	-51.0151	-13	PASS
	2307.0370	-49.8873	-13	PASS
	3076.0500	-46.3858	-13	PASS
	3845.0620	-48.1908	-13	PASS
	4614.0750	-48.1230	-13	PASS
	5383.0870	-48.4281	-13	PASS
	6152.1000	-48.2132	-13	PASS
	6921.1130	-43.9276	-13	PASS
	7690.1250	-46.6648	-13	PASS

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



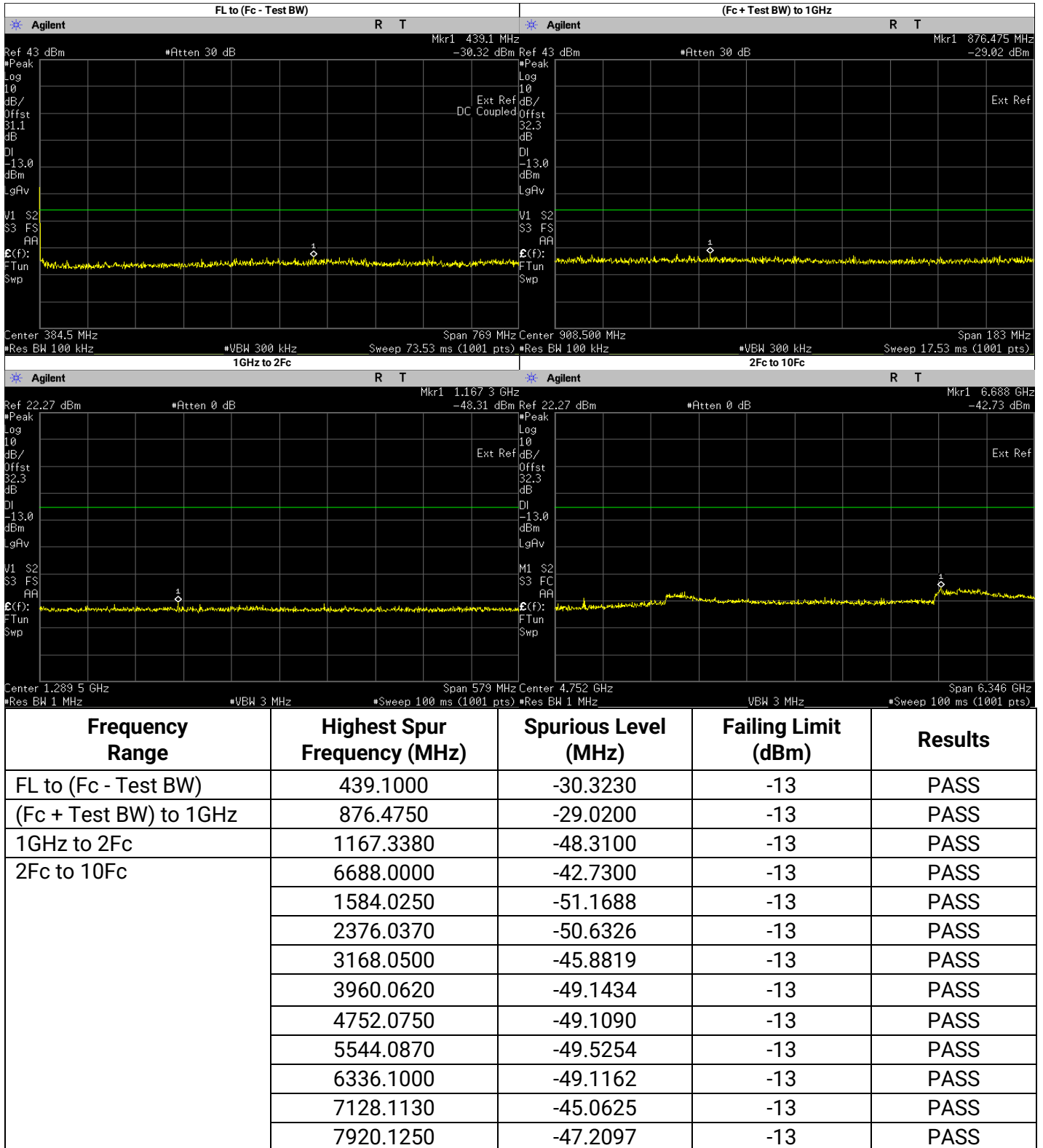
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	377.7000	-29.8740	-13	PASS
(Fc + Test BW) to 1GHz	947.5450	-29.2700	-13	PASS
1GHz to 2Fc	1163.1520	-48.7200	-13	PASS
2Fc to 10Fc	6907.0490	-42.8400	-13	PASS
	1538.1750	-50.9679	-13	PASS
	2307.2620	-50.6127	-13	PASS
	3076.3500	-46.2000	-13	PASS
	3845.4370	-48.6574	-13	PASS
	4614.5250	-48.1330	-13	PASS
	5383.6130	-48.7512	-13	PASS
	6152.7000	-48.0393	-13	PASS
	6921.7880	-43.5518	-13	PASS
	7690.8750	-45.7021	-13	PASS

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

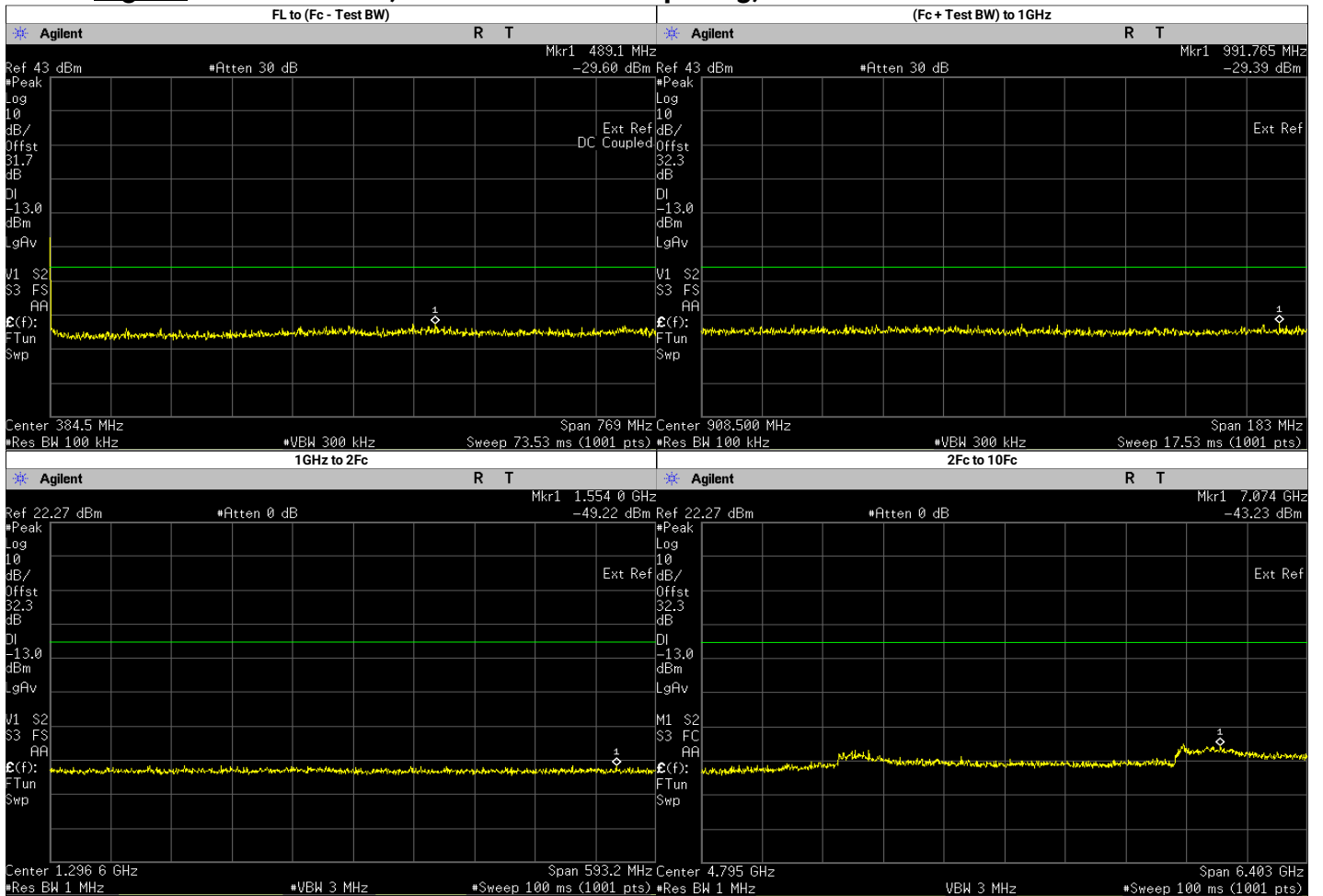


Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	336.1000	-30.4800	-13	PASS
(Fc + Test BW) to 1GHz	914.0050	-28.2500	-13	PASS
1GHz to 2Fc	1094.7910	-47.5200	-13	PASS
2Fc to 10Fc	6934.2740	-42.3200	-13	PASS
	1549.7750	-50.3115	-13	PASS
	2324.6620	-50.4948	-13	PASS
	3099.5500	-46.4977	-13	PASS
	3874.4370	-48.1767	-13	PASS
	4649.3250	-47.7760	-13	PASS
	5424.2120	-48.4428	-13	PASS
	6199.1000	-48.7383	-13	PASS
	6973.9880	-44.5709	-13	PASS
	7748.8750	-46.0288	-13	PASS

Digital: 792.0125 MHz, 12.5 kHz Channel Spacing, Max Power
Not for FCC review

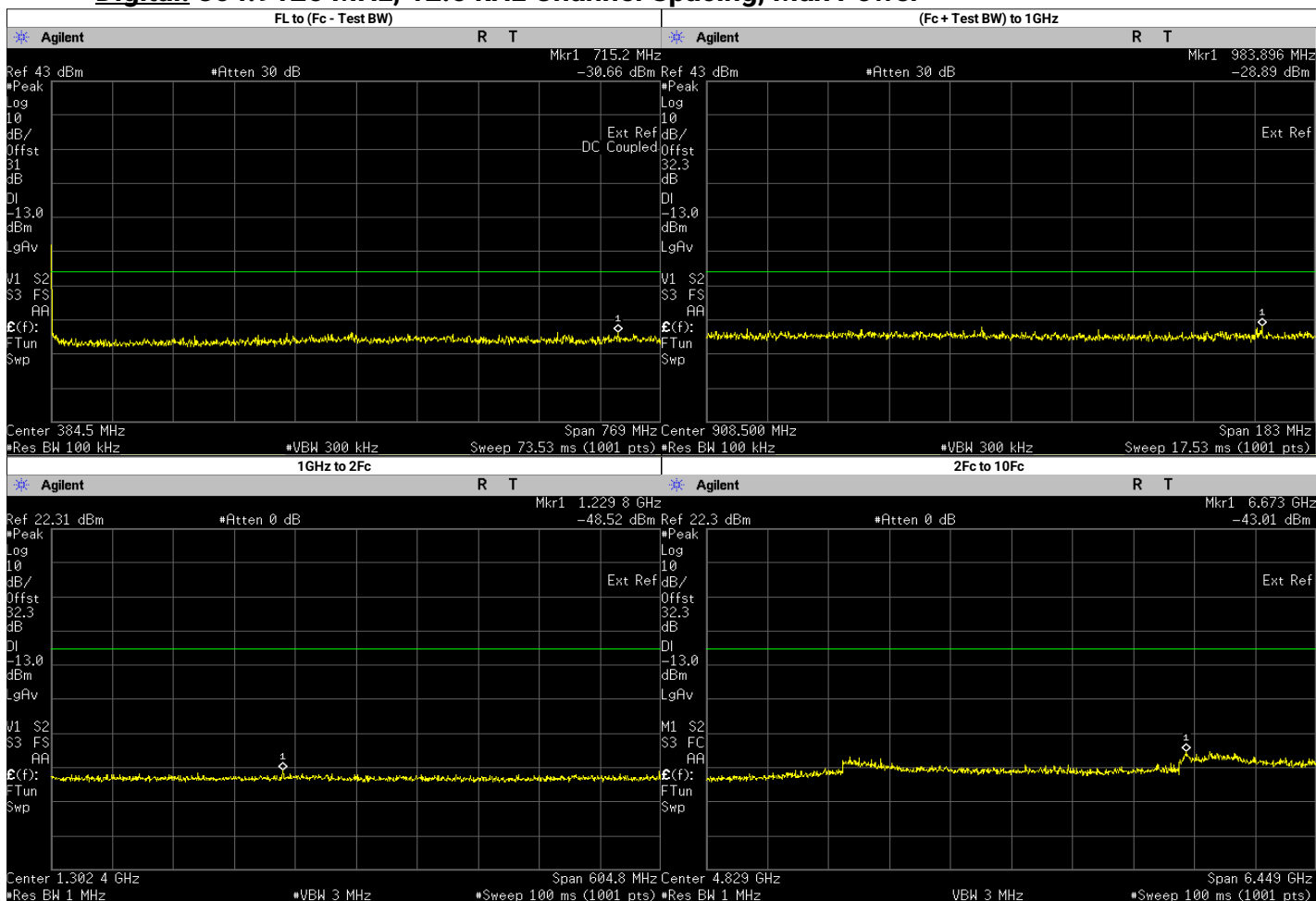


Digital: 799.8875 MHz, 12.5 kHz Channel Spacing, Max Power



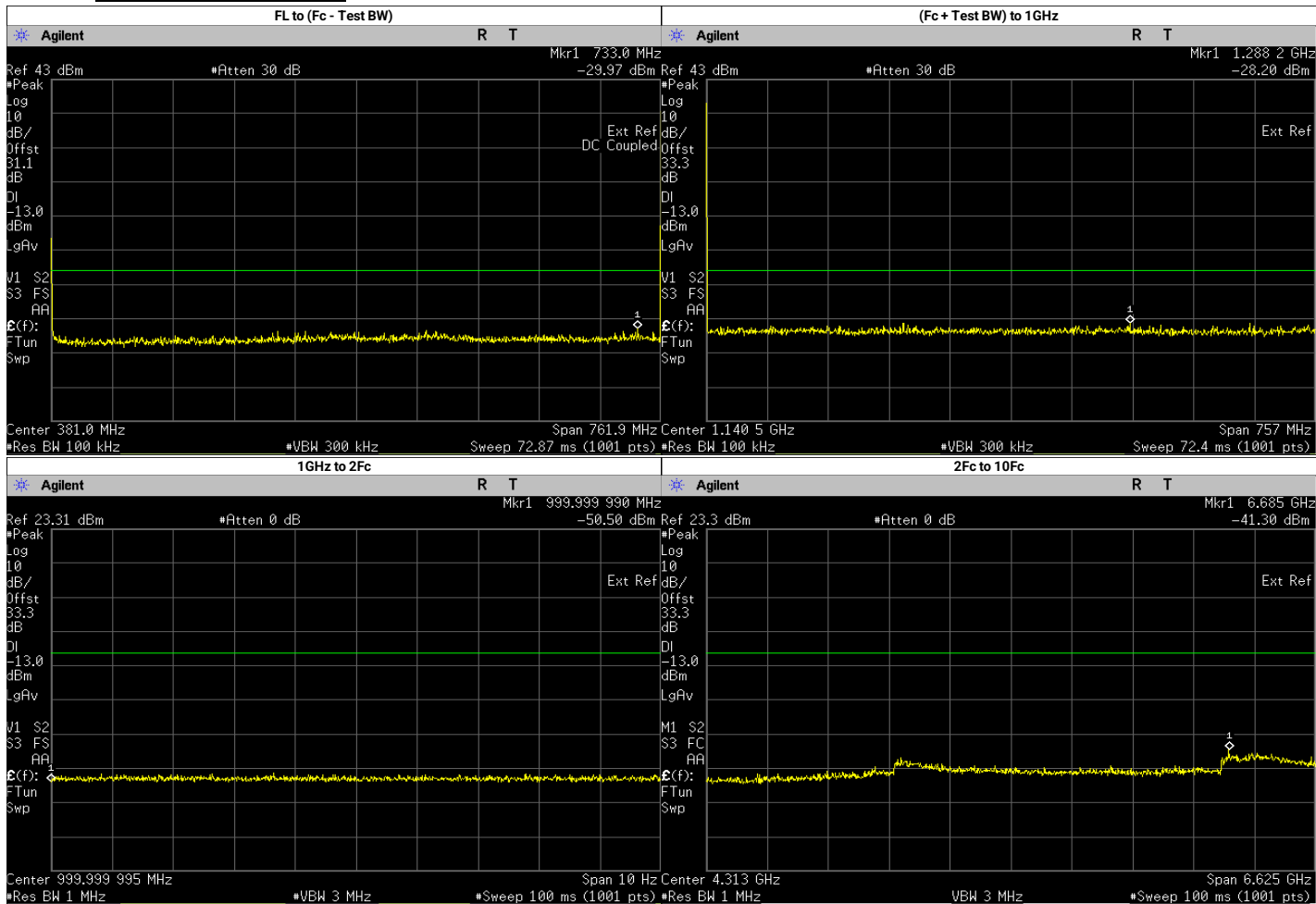
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	489.1000	-29.6000	-13	PASS
(Fc + Test BW) to 1GHz	991.7650	-29.3900	-13	PASS
1GHz to 2Fc	1554.0250	-49.2200	-13	PASS
2Fc to 10Fc	7074.0000	-43.2300	-13	PASS
	1598.1750	-50.7091	-13	PASS
	2397.2620	-50.4154	-13	PASS
	3196.3500	-46.7634	-13	PASS
	3995.4370	-48.7174	-13	PASS
	4794.5250	-48.7620	-13	PASS
	5593.6130	-49.7129	-13	PASS
	6392.7000	-48.2729	-13	PASS
	7191.7880	-44.7420	-13	PASS
	7990.8750	-46.3057	-13	PASS

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



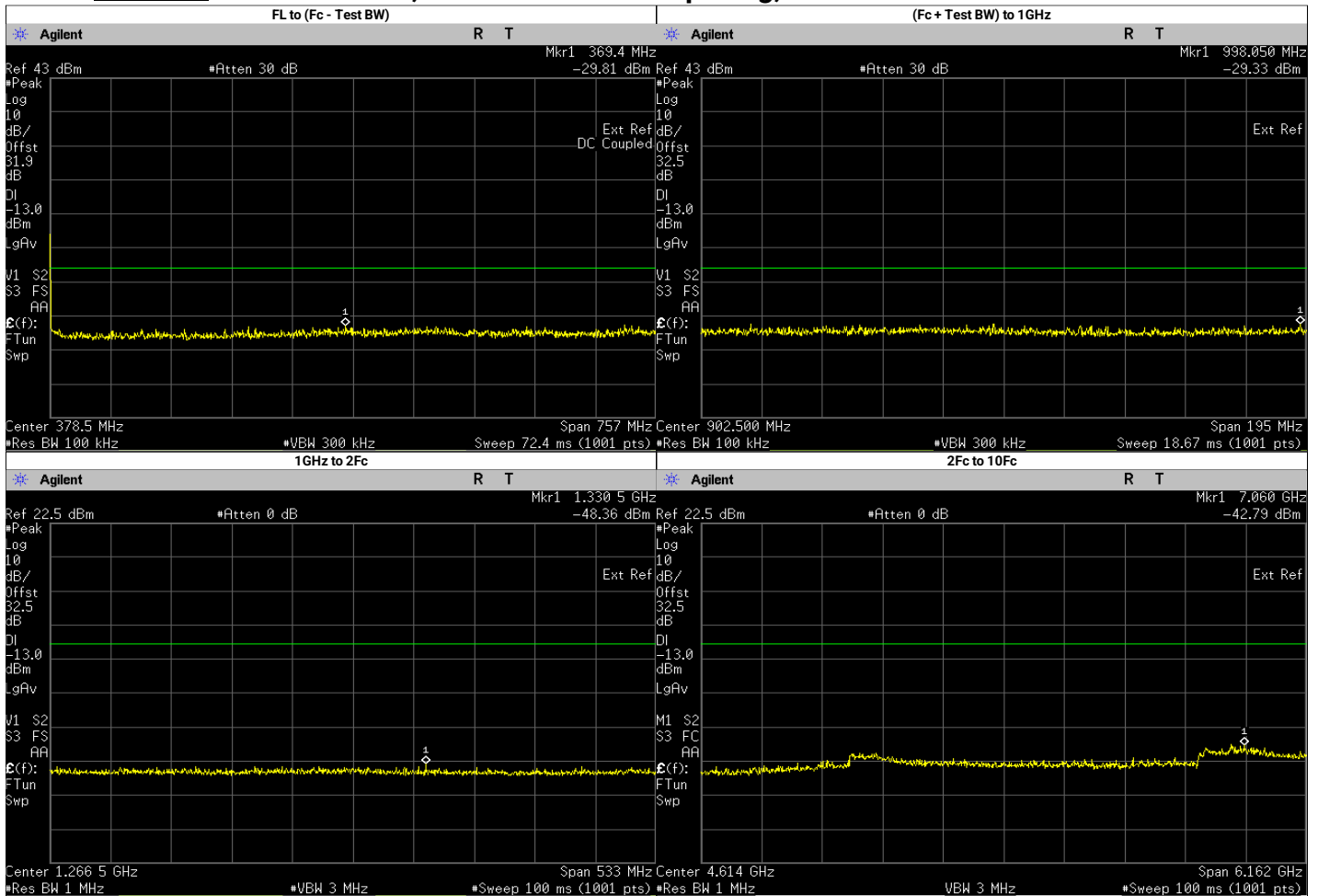
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	715.2000	-30.6550	-13	PASS
(Fc + Test BW) to 1GHz	983.8960	-28.8900	-13	PASS
1GHz to 2Fc	1229.8330	-48.5200	-13	PASS
2Fc to 10Fc	6673.0030	-43.0100	-13	PASS
	1609.8250	-50.5596	-13	PASS
	2414.7380	-49.8177	-13	PASS
	3219.6500	-46.9014	-13	PASS
	4024.5620	-48.4499	-13	PASS
	4829.4750	-48.6530	-13	PASS
	5634.3870	-49.4569	-13	PASS
	6439.3000	-48.7927	-13	PASS
	7244.2120	-45.7606	-13	PASS
	8049.1250	-46.5757	-13	PASS

Phase II: 762.0125 MHz, 12.5 kHz Channel Spacing, Max Power
Not for FCC review



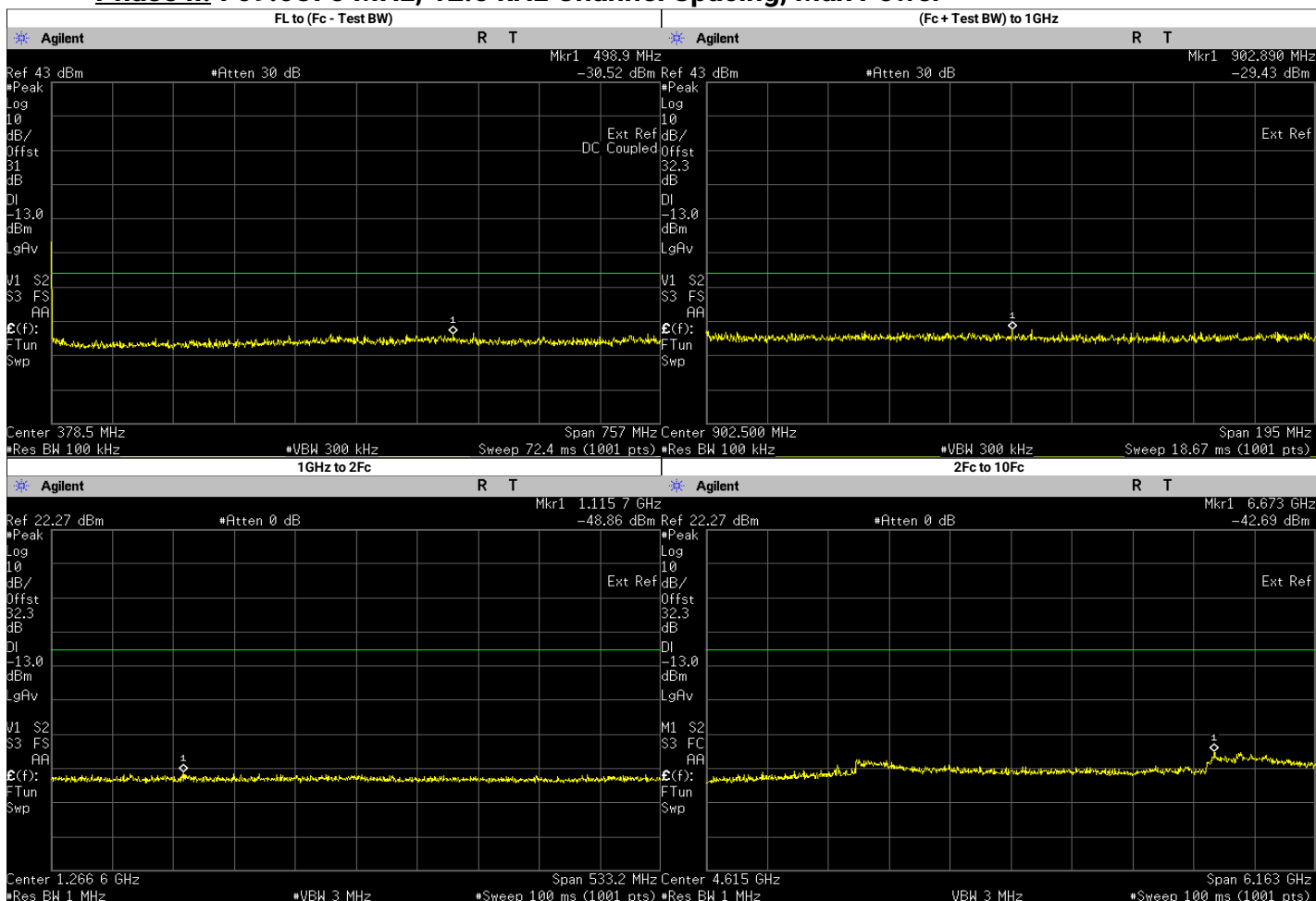
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	733.0000	-29.9740	-13	PASS
(Fc + Test BW) to 1GHz	1288.1530	-28.2000	-13	PASS
1GHz to 2Fc	999.9999	-50.5000	-13	PASS
2Fc to 10Fc	6685.0000	-41.3000	-13	PASS
	1524.0250	-49.8250	-13	PASS
	2286.0370	-48.6258	-13	PASS
	3048.0500	-44.6835	-13	PASS
	3810.0620	-47.2819	-13	PASS
	4572.0750	-47.6130	-13	PASS
	5334.0870	-47.6421	-13	PASS
	6096.1000	-47.2946	-13	PASS
	6858.1130	-44.5447	-13	PASS
	7620.1250	-46.1784	-13	PASS

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



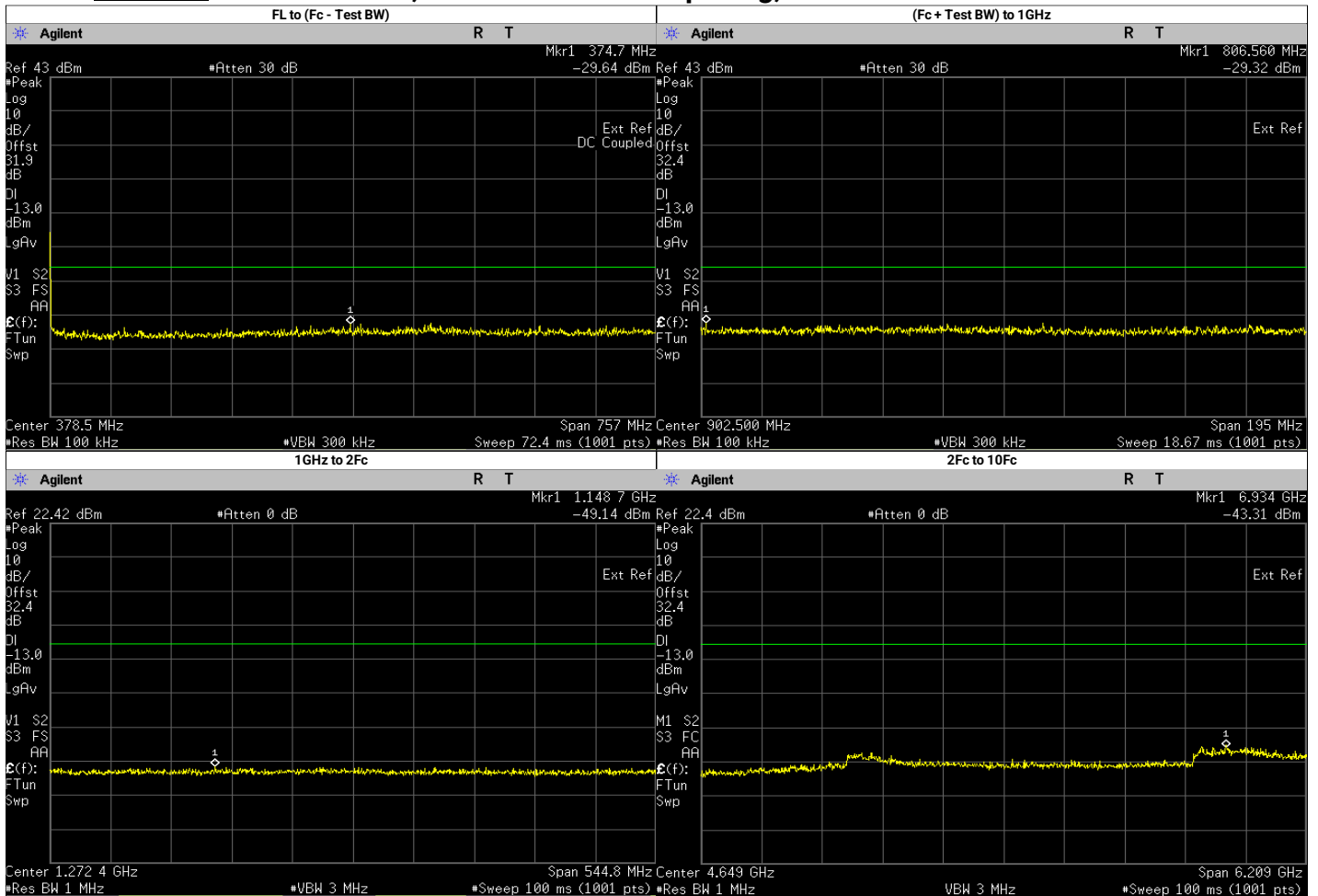
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	369.4000	-29.8110	-13	PASS
(Fc + Test BW) to 1GHz	998.0500	-29.3300	-13	PASS
1GHz to 2Fc	1330.4760	-48.3600	-13	PASS
2Fc to 10Fc	7059.9790	-42.7900	-13	PASS
	1538.0250	-50.7948	-13	PASS
	2307.0370	-49.9798	-13	PASS
	3076.0500	-46.6292	-13	PASS
	3845.0620	-48.9021	-13	PASS
	4614.0750	-48.3320	-13	PASS
	5383.0870	-48.6859	-13	PASS
	6152.1000	-48.5493	-13	PASS
	6921.1130	-43.4312	-13	PASS
	7690.1250	-45.5860	-13	PASS

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



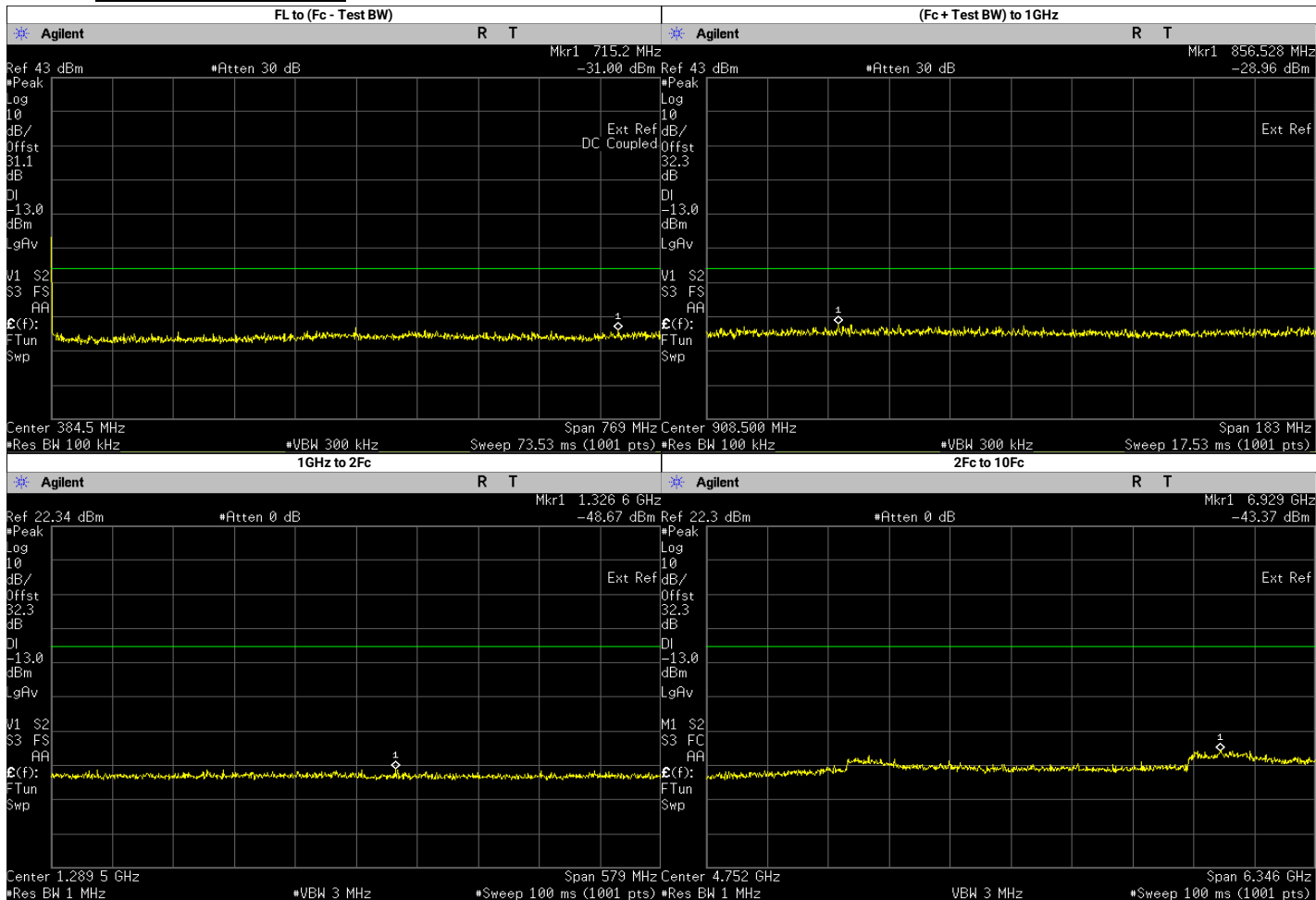
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	498.9000	-30.5220	-13	PASS
(Fc + Test BW) to 1GHz	902.8900	-29.4300	-13	PASS
1GHz to 2Fc	1115.6990	-48.8600	-13	PASS
2Fc to 10Fc	6673.0300	-42.6900	-13	PASS
	1538.1750	-51.2111	-13	PASS
	2307.2620	-50.2788	-13	PASS
	3076.3500	-45.7902	-13	PASS
	3845.4370	-48.3963	-13	PASS
	4614.5250	-48.4070	-13	PASS
	5383.6130	-49.1430	-13	PASS
	6152.7000	-48.2004	-13	PASS
	6921.7880	-43.8329	-13	PASS
	7690.8750	-45.8591	-13	PASS

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



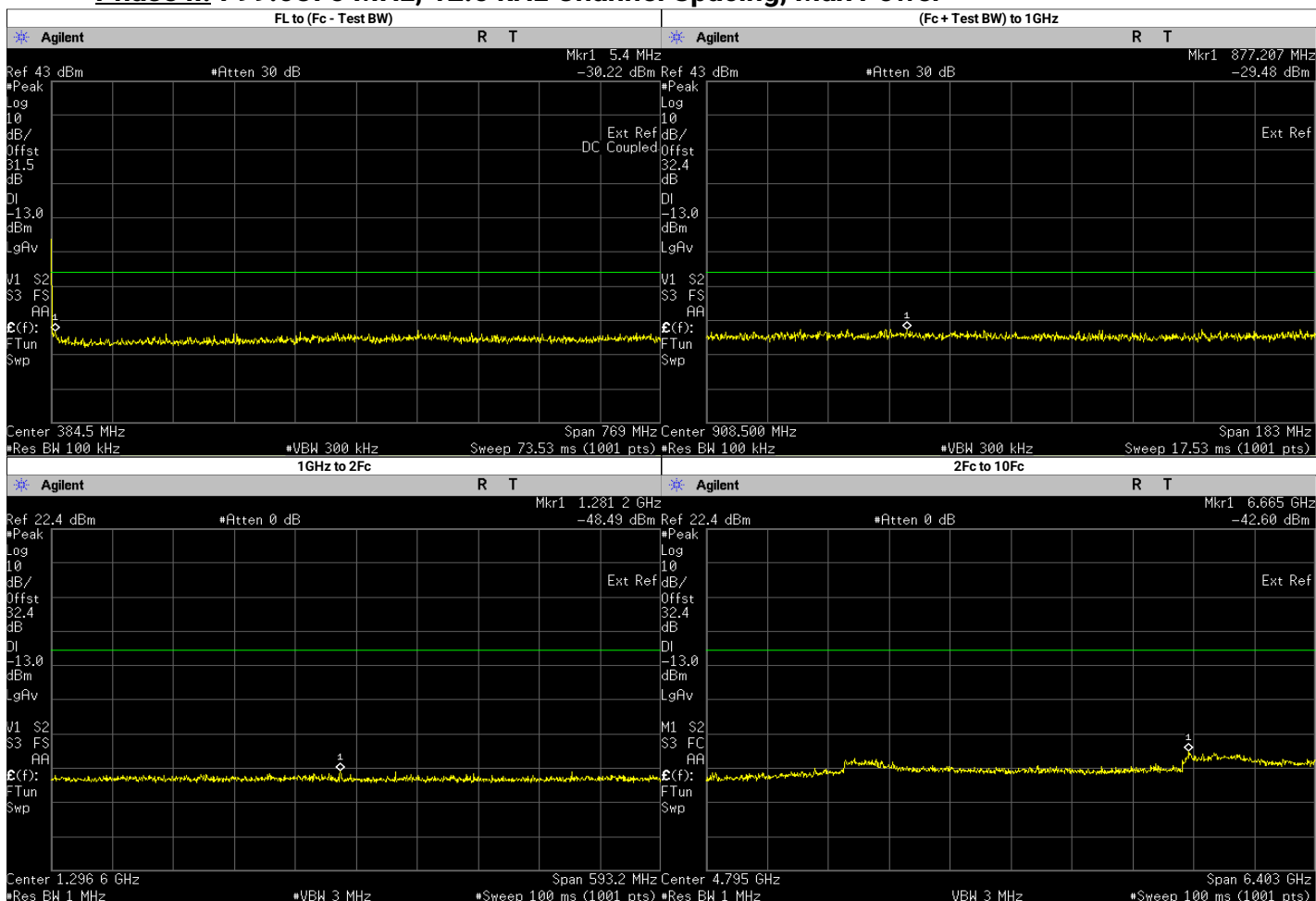
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	374.7000	-29.6400	-13	PASS
(Fc + Test BW) to 1GHz	806.5600	-29.3200	-13	PASS
1GHz to 2Fc	1148.7240	-49.1400	-13	PASS
2Fc to 10Fc	6934.1000	-43.3100	-13	PASS
	1549.7750	-50.5281	-13	PASS
	2324.6620	-50.3200	-13	PASS
	3099.5500	-46.7486	-13	PASS
	3874.4370	-48.3163	-13	PASS
	4649.3250	-47.2470	-13	PASS
	5424.2120	-48.6161	-13	PASS
	6199.1000	-49.0227	-13	PASS
	6973.9880	-44.6551	-13	PASS
	7748.8750	-45.6486	-13	PASS

Phase II: 792.0125 MHz, 12.5 kHz Channel Spacing, Max Power
Not for FCC review



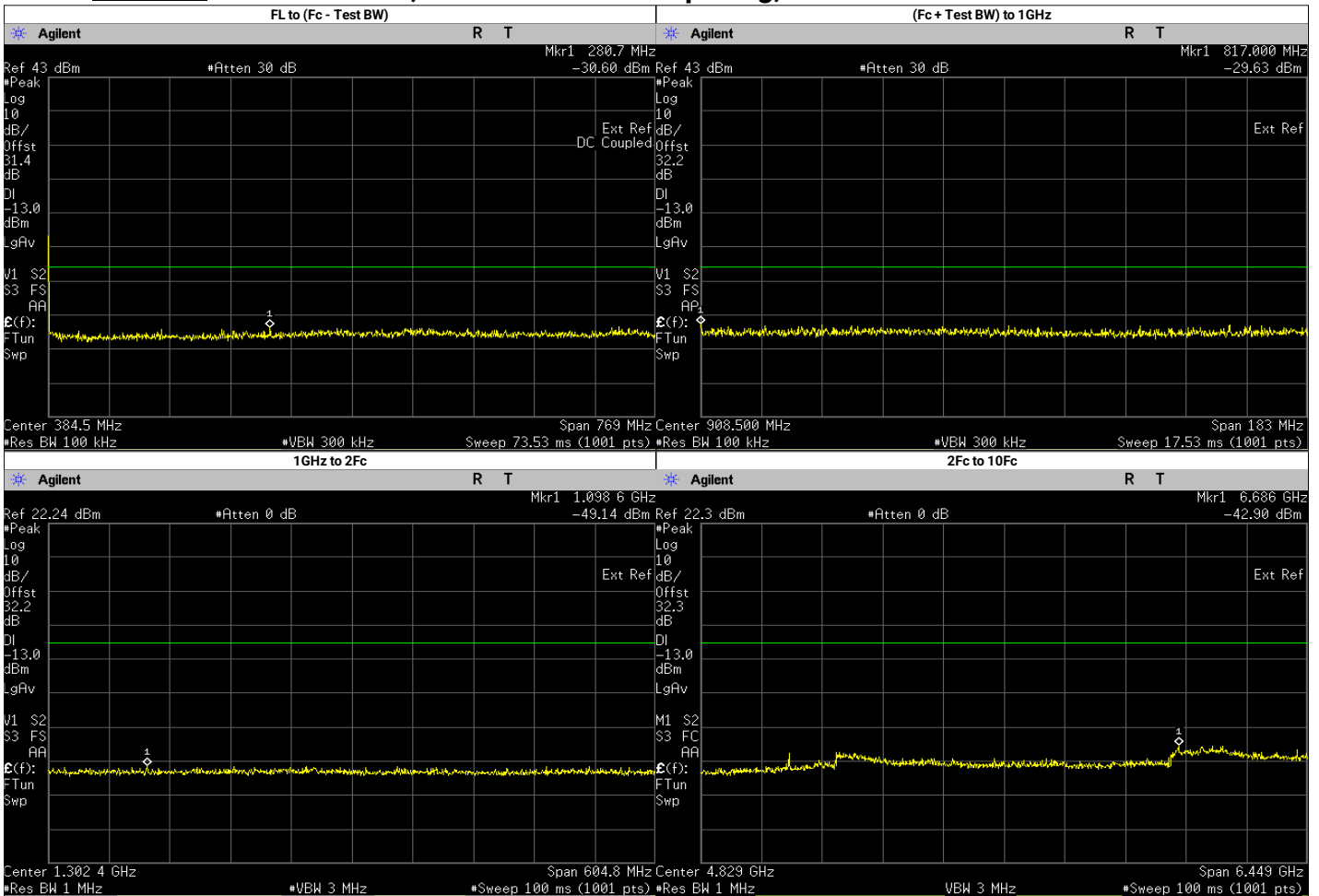
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	715.2000	-30.9950	-13	PASS
(Fc + Test BW) to 1GHz	856.5280	-28.9600	-13	PASS
1GHz to 2Fc	1326.5700	-48.6700	-13	PASS
2Fc to 10Fc	6929.3100	-43.3700	-13	PASS
	1584.0250	-50.5021	-13	PASS
	2376.0370	-49.5966	-13	PASS
	3168.0500	-45.8270	-13	PASS
	3960.0620	-48.2496	-13	PASS
	4752.0750	-48.6450	-13	PASS
	5544.0870	-48.1627	-13	PASS
	6336.1000	-48.1585	-13	PASS
	7128.1130	-44.7891	-13	PASS
	7920.1250	-45.9900	-13	PASS

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



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	5.4000	-30.2180	-13	PASS
(Fc + Test BW) to 1GHz	877.2070	-29.4800	-13	PASS
1GHz to 2Fc	1281.1650	-48.4890	-13	PASS
2Fc to 10Fc	6665.0000	-42.6000	-13	PASS
	1598.1750	-50.2356	-13	PASS
	2397.2620	-49.3295	-13	PASS
	3196.3500	-46.5039	-13	PASS
	3995.4370	-48.4259	-13	PASS
	4794.5250	-49.6920	-13	PASS
	5593.6130	-48.5984	-13	PASS
	6392.7000	-47.8265	-13	PASS
	7191.7880	-44.3211	-13	PASS
	7990.8750	-45.3095	-13	PASS

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



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	280.7000	-30.5990	-13	PASS
(Fc + Test BW) to 1GHz	817.0000	-29.6300	-13	PASS
1GHz to 2Fc	1098.5860	-49.1400	-13	PASS
2Fc to 10Fc	6686.0000	-42.9000	-13	PASS
	1609.8250	-51.0968	-13	PASS
	2414.7380	-50.1495	-13	PASS
	3219.6500	-46.7463	-13	PASS
	4024.5620	-48.3152	-13	PASS
	4829.4750	-48.8550	-13	PASS
	5634.3870	-49.3406	-13	PASS
	6439.3000	-48.3985	-13	PASS
	7244.2120	-44.8746	-13	PASS
	8049.1250	-46.5570	-13	PASS

6.9.4. Test Limit

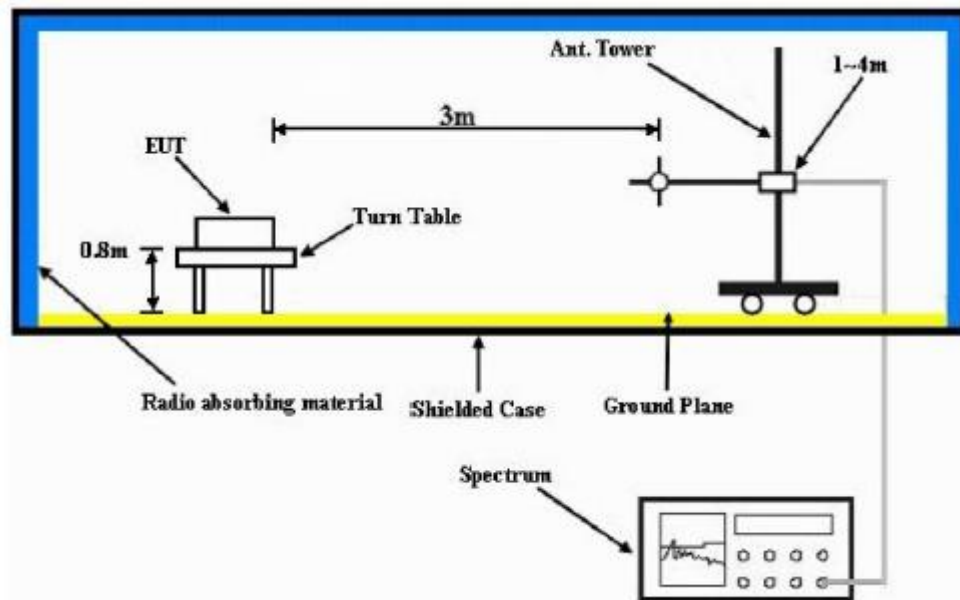
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

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

6.10. 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)

Not for FCC review

Test: SAC Transmitter Radiated Emission

Model Number: H55TGT9PW8BN

S/N: 437ZBG0577

EMC SR ID#: 0875N00-EMC-00072

Battery: PMNN4895A

Accessory: NA

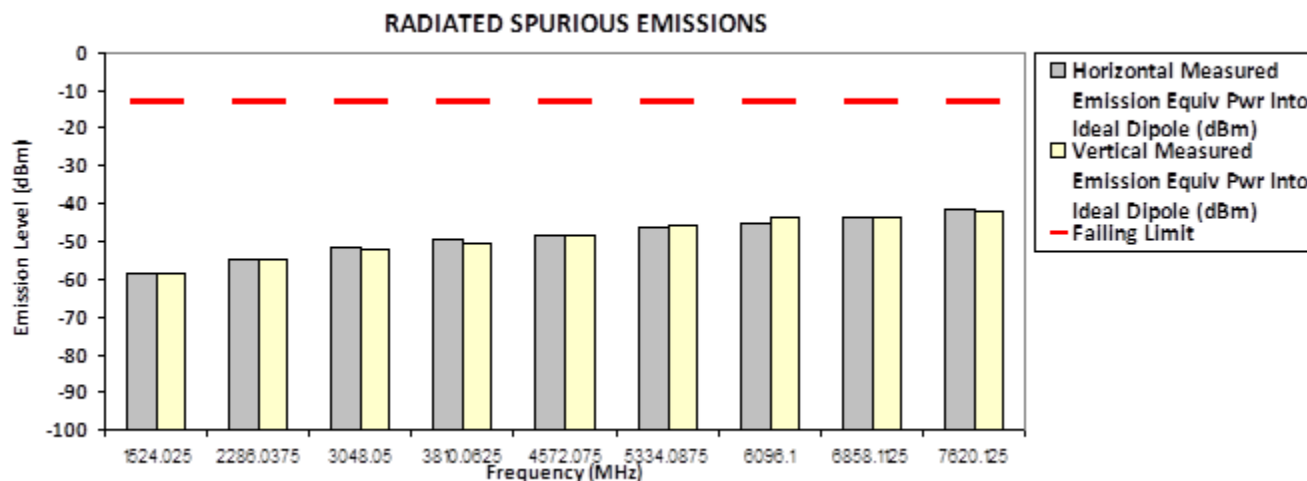
Test Mode: TX Analog

Test Frequency: 762.012500 MHz

Channel Spacing: 12.5 kHz

Power : 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	-58.5549 **	-58.1588 **
2286.0375	-13.0000	-54.6659 **	-54.5031 **
3048.0500	-13.0000	-51.7503 **	-52.0337 **
3810.0625	-13.0000	-49.5327 **	-50.5659 **
4572.0750	-13.0000	-48.5265 **	-48.4349 **
5334.0875	-13.0000	-46.1539 **	-45.9669 **
6096.1000	-13.0000	-45.0327 **	-43.9032 **
6858.1125	-13.0000	-43.6296 **	-43.4927 **
7620.1250	-13.0000	-41.3390 **	-41.8842 **



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&Firdaus

Sat, 10 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

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

Test: SAC Transmitter Radiated Emission

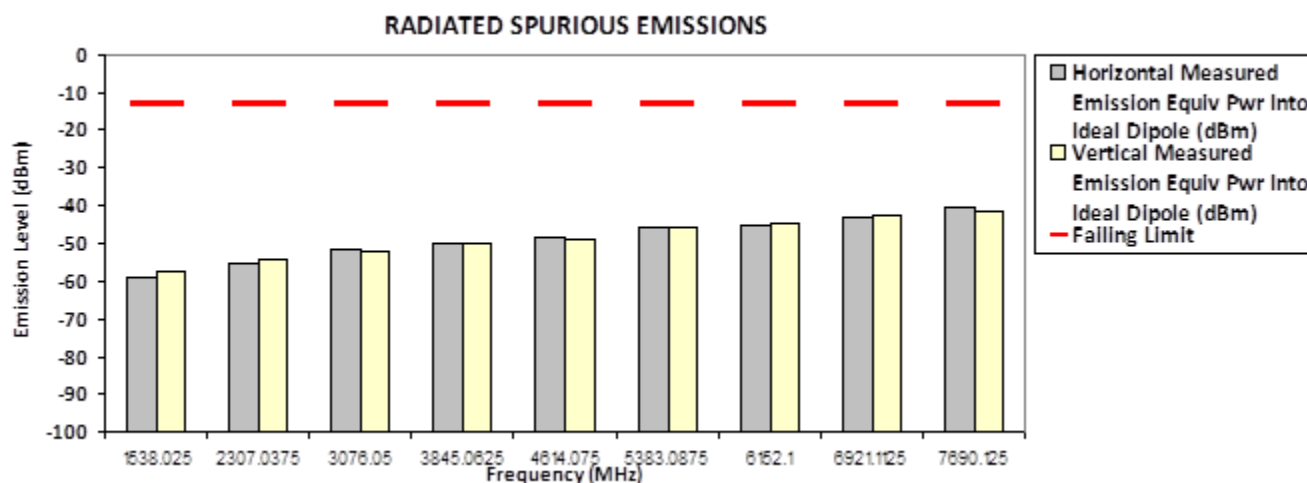
Model Number: H55TGT9PW8BN
Battery: PMNN4895A

S/N: 437ZBG0577

EMC SR ID#: 0875N00-EMC-00072
Accessory: NA

Test Mode: TX Analog
Test Frequency: 769.012500 MHz
Channel Spacing: 12.5 kHz
Power : 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)
1538.0250	-13.0000	-58.7011 **	-57.4148 **
2307.0375	-13.0000	-55.3174 **	-54.2223 **
3076.0500	-13.0000	-51.6077 **	-51.9780 **
3845.0625	-13.0000	-50.1645 **	-49.9926 **
4614.0750	-13.0000	-48.6074 **	-49.1143 **
5383.0875	-13.0000	-45.7508 **	-45.9688 **
6152.1000	-13.0000	-45.0425 **	-44.5366 **
6921.1125	-13.0000	-42.9682 **	-42.5173 **
7690.1250	-13.0000	-40.5957 **	-41.3447 **



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&Firdaus

Sat, 10 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

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

Test: SAC Transmitter Radiated Emission

Model Number: H55TGT9PW8BN
Battery: PMNN4895A

S/N: 437ZBG0577

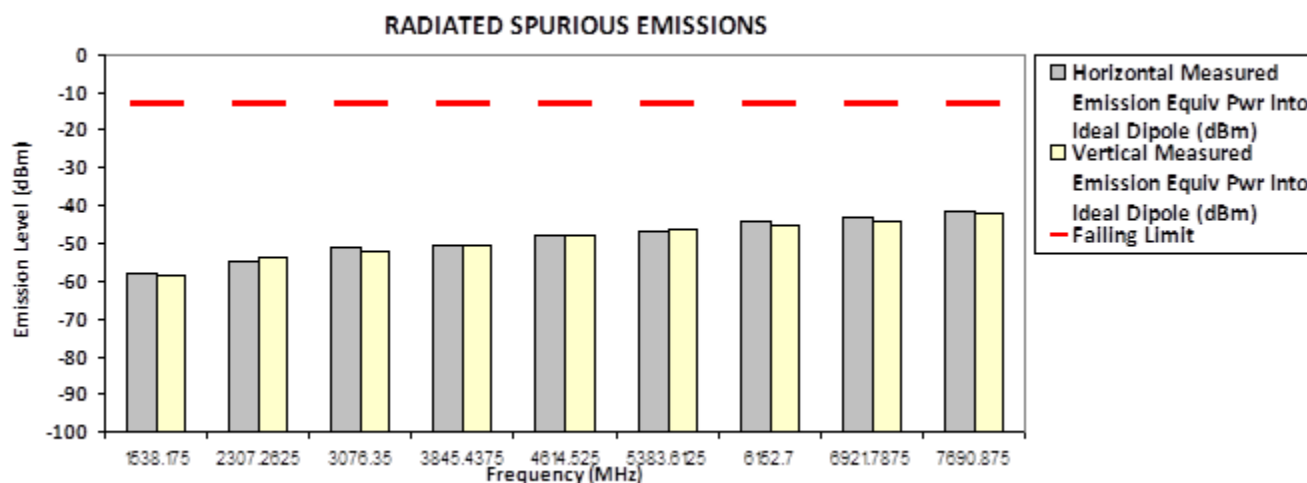
EMC SR ID#: 0875N00-EMC-00072
Accessory: NA

Test Frequency: 769.087500 MHz

Test Mode: TX Analog
Channel Spacing: 12.5 kHz

Power : 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	-57.9021 **	-58.2856 **
2307.2625	-13.0000	-54.9602 **	-53.7243 **
3076.3500	-13.0000	-50.9036 **	-52.1571 **
3845.4375	-13.0000	-50.5968 **	-50.7784 **
4614.5250	-13.0000	-47.7638 **	-48.0157 **
5383.6125	-13.0000	-46.6287 **	-46.5179 **
6152.7000	-13.0000	-44.4178 **	-45.3102 **
6921.7875	-13.0000	-43.1960 **	-44.1693 **
7690.8750	-13.0000	-41.3281 **	-41.9789 **



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&Firdaus

Sat, 10 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

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

Test: SAC Transmitter Radiated Emission

Model Number: H55TGT9PW8BN
Battery: PMNN4895A

S/N: 437ZBG0577

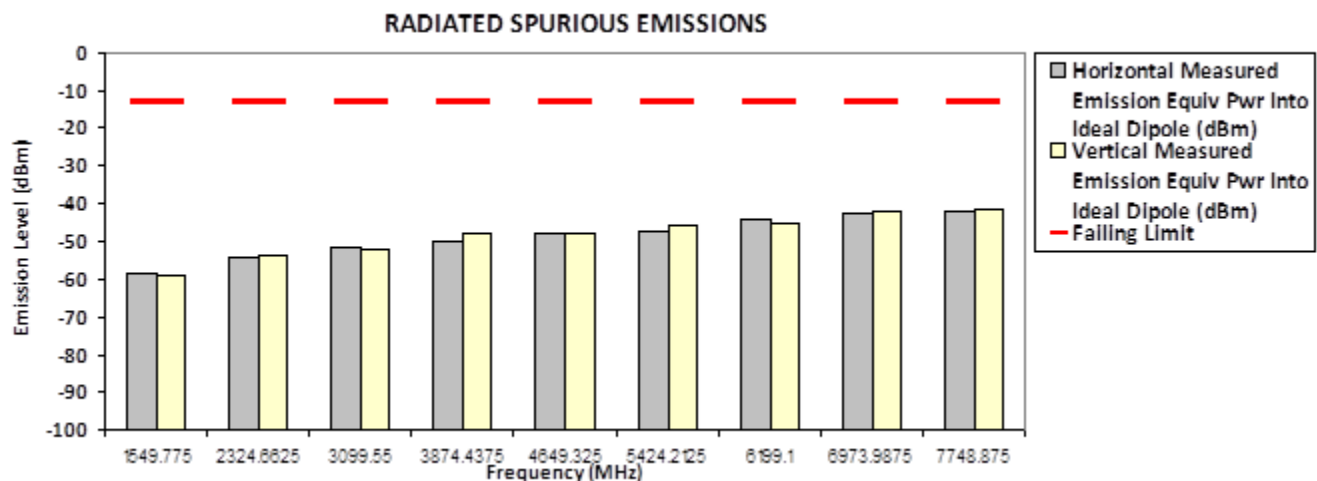
EMC SR ID#: 0875N00-EMC-00072
Accessory: NA

Test Frequency: 774.887500 MHz

Test Mode: TX Analog
Channel Spacing: 12.5 kHz

Power : 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	-58.3099 **	-58.6930 **
2324.6625	-13.0000	-54.3942 **	-53.4379 **
3099.5500	-13.0000	-51.7291 **	-52.2320 **
3874.4375	-13.0000	-50.0126 **	-47.9756 **
4649.3250	-13.0000	-47.6498 **	-47.9197 **
5424.2125	-13.0000	-47.4847 **	-45.8395 **
6199.1000	-13.0000	-44.0056 **	-45.4142 **
6973.9875	-13.0000	-42.3687 **	-42.2116 **
7748.8750	-13.0000	-42.0658 **	-41.4286 **



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&Firdaus

Sat, 10 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

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

Not for FCC review

Test: SAC Transmitter Radiated Emission

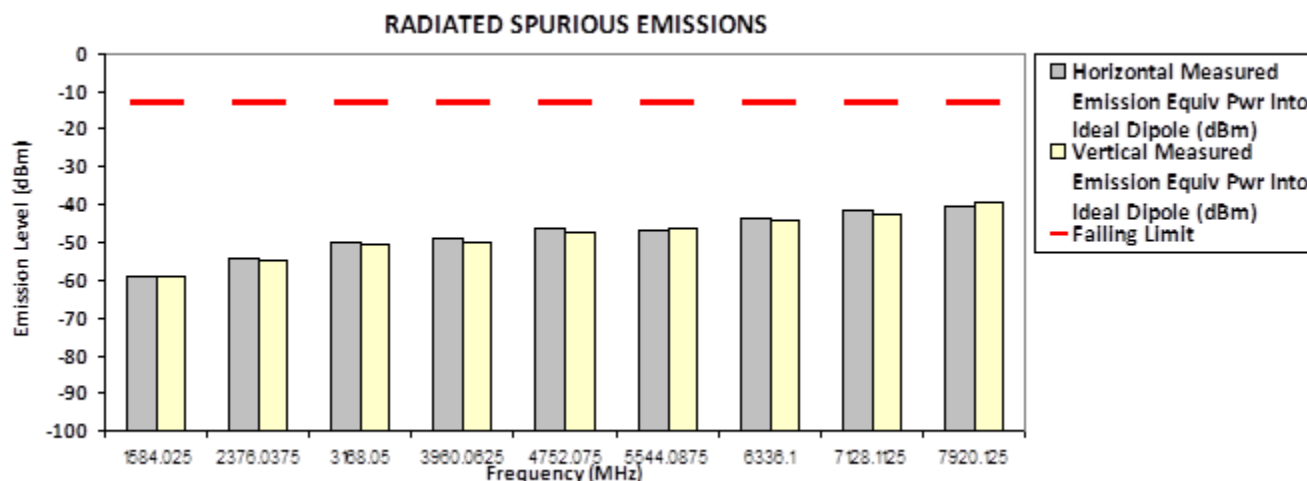
Model Number: H55TGT9PW8BN
 Battery: PMNN4895A

S/N: 437ZBG0577

EMC SR ID#: 0875N00-EMC-00072
 Accessory: NA

Test Mode: TX Analog
 Test Frequency: 792.012500 MHz
 Channel Spacing: 12.5 kHz
 Power : 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)
1584.0250	-13.0000	-59.1689 **	-58.6916 **
2376.0375	-13.0000	-54.1868 **	-54.8289 **
3168.0500	-13.0000	-49.9906 **	-50.7089 **
3960.0625	-13.0000	-48.9316 **	-49.9864 **
4752.0750	-13.0000	-46.5549 **	-47.4117 **
5544.0875	-13.0000	-46.9388 **	-46.3683 **
6336.1000	-13.0000	-43.6934 **	-44.1594 **
7128.1125	-13.0000	-41.5333 **	-42.5846 **
7920.1250	-13.0000	-40.3940 **	-39.5657 **



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&Firdaus

Sat, 10 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

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

Test: SAC Transmitter Radiated Emission

Model Number: H55TGT9PW8BN
Battery: PMNN4895A

S/N: 437ZBG0577

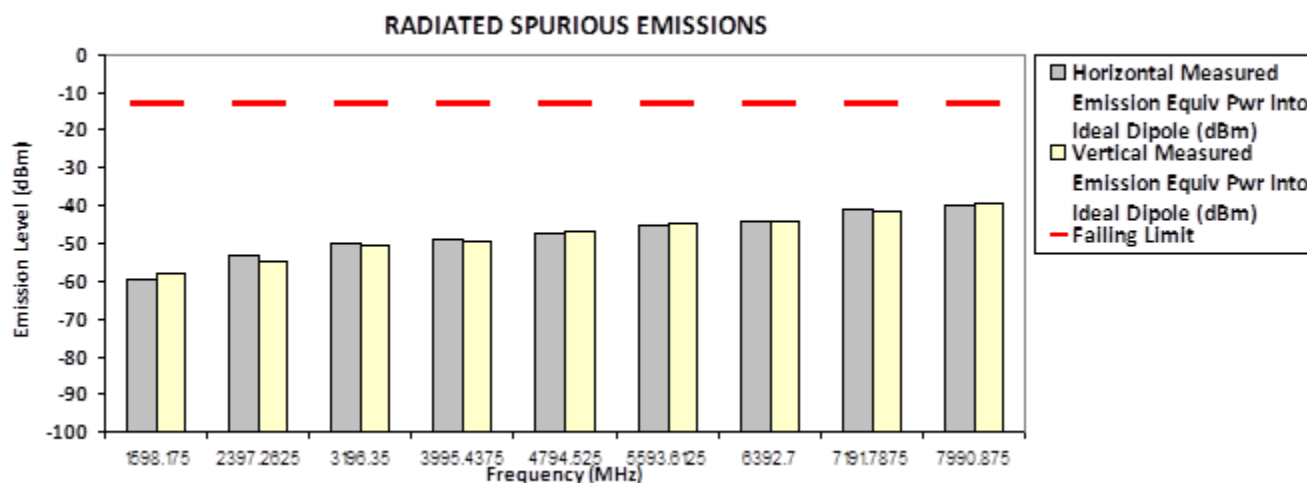
EMC SR ID#: 0875N00-EMC-00072
Accessory: NA

Test Frequency: 799.087500 MHz

Test Mode: TX Analog
Channel Spacing: 12.5 kHz

Power : 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	-59.2545 **	-58.0200 **
2397.2625	-13.0000	-53.1119 **	-54.7374 **
3196.3500	-13.0000	-50.2294 **	-50.3205 **
3995.4375	-13.0000	-48.9930 **	-49.7193 **
4794.5250	-13.0000	-47.5682 **	-46.7605 **
5593.6125	-13.0000	-45.4976 **	-44.8730 **
6392.7000	-13.0000	-44.3055 **	-44.3410 **
7191.7875	-13.0000	-41.2488 **	-41.8274 **
7990.8750	-13.0000	-40.0077 **	-39.6215 **



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&Firdaus

Sat, 10 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

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

Test: SAC Transmitter Radiated Emission

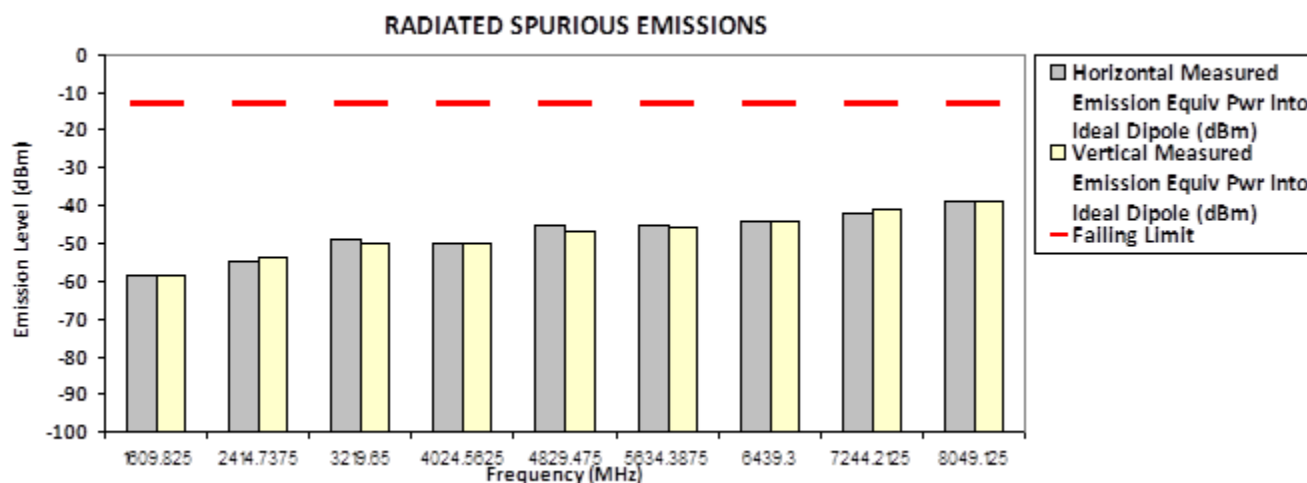
Model Number: H55TGT9PW8BN
Battery: PMNN4895A

S/N: 437ZBG0577

EMC SR ID#: 0875N00-EMC-00072
Accessory: NA

Test Mode: TX Analog
Test Frequency: 804.912500 MHz
Channel Spacing: 12.5 kHz
Power : 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	-58.2369 **	-58.4146 **
2414.7375	-13.0000	-54.7639 **	-53.7836 **
3219.6500	-13.0000	-48.8421 **	-49.7925 **
4024.5625	-13.0000	-50.2156 **	-50.0428 **
4829.4750	-13.0000	-45.1355 **	-46.6704 **
5634.3875	-13.0000	-45.1544 **	-45.5958 **
6439.3000	-13.0000	-44.1978 **	-44.0857 **
7244.2125	-13.0000	-41.9416 **	-41.0496 **
8049.1250	-13.0000	-39.0440 **	-39.0311 **



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&Firdaus

Sun, 11 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

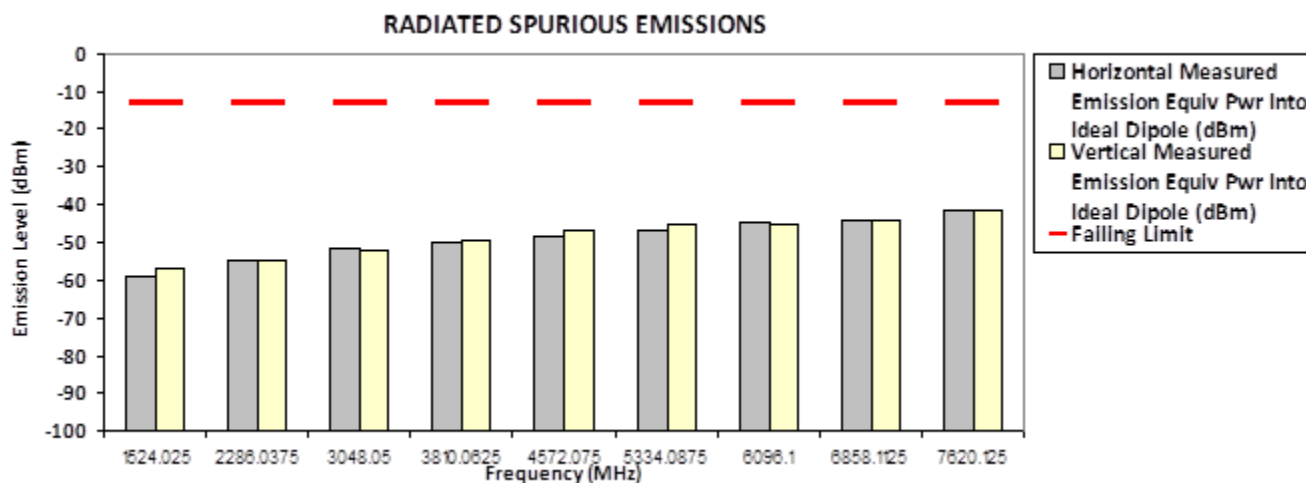
Passed Results	Marginal Results	Failed Results
----------------	------------------	----------------

6.10.3. Test Result (Digital)

Not for FCC review

Test: SAC Transmitter Radiated Emission
 Model Number: H55TGT9PW8BN S/N: 437ZBG0577 EMC SR ID#: 0875N00-EMC-00072
 Battery: PMNN4895A Accessory: NA
 Test Mode: TX APCO Digital C4FM
 Test Frequency: 762.012500 MHz Channel Spacing: 12.5 kHz Power : 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	-58.9278 **	-56.9028 **
2286.0375	-13.0000	-54.9543 **	-54.5533 **
3048.0500	-13.0000	-51.3642 **	-51.9372 **
3810.0625	-13.0000	-50.0009 **	-49.7159 **
4572.0750	-13.0000	-48.5889 **	-46.9631 **
5334.0875	-13.0000	-47.0705 **	-45.1251 **
6096.1000	-13.0000	-44.9428 **	-45.4101 **
6858.1125	-13.0000	-44.2844 **	-44.4112 **
7620.1250	-13.0000	-41.6441 **	-41.3994 **



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&Firdaus

Sun, 11 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

Passed Results	Marginal Results	Failed Results
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Test: SAC Transmitter Radiated Emission

Model Number: H55TGT9PW8BN
Battery: PMNN4895A

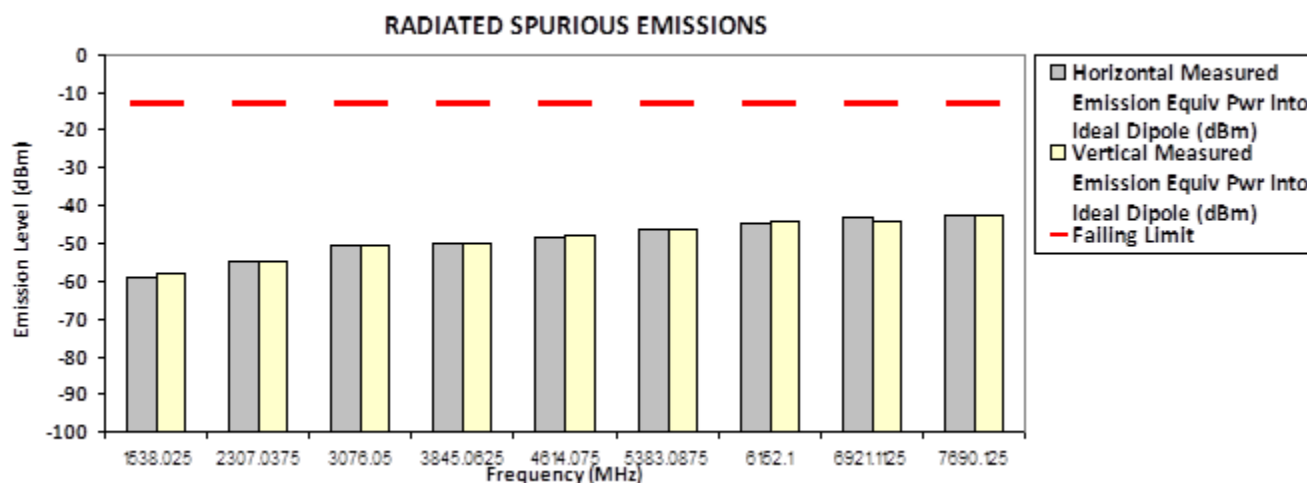
S/N: 437ZBG0577

EMC SR ID#: 0875N00-EMC-00072
Accessory: NA

Test Mode: TX APCO Digital C4FM
Test Frequency: 769.012500 MHz
Channel Spacing: 12.5 kHz

Power : 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)
1538.0250	-13.0000	-58.8072 **	-57.7179 **
2307.0375	-13.0000	-54.9730 **	-54.7359 **
3076.0500	-13.0000	-50.4270 **	-50.5931 **
3845.0625	-13.0000	-49.8612 **	-50.1657 **
4614.0750	-13.0000	-48.6101 **	-47.9952 **
5383.0875	-13.0000	-46.4985 **	-46.0682 **
6152.1000	-13.0000	-44.9318 **	-44.1308 **
6921.1125	-13.0000	-43.0178 **	-44.2304 **
7690.1250	-13.0000	-42.4062 **	-42.4552 **



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&Firdaus

Sun, 11 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

Passed Results	Marginal Results	Failed Results
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Test: SAC Transmitter Radiated Emission

Model Number: H55TGT9PW8BN
Battery: PMNN4895A

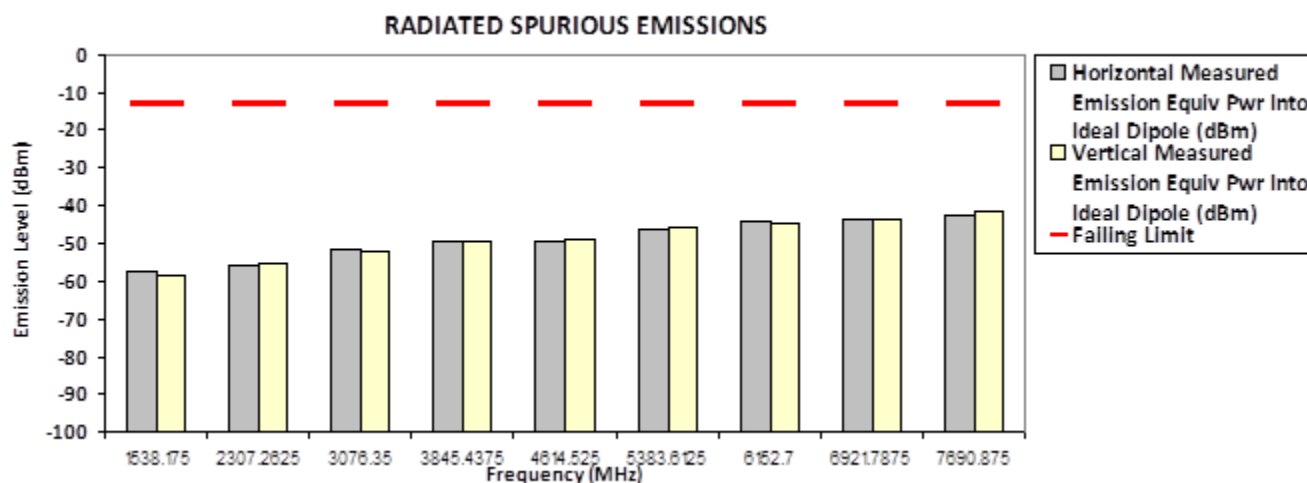
S/N: 437ZBG0577

EMC SR ID#: 0875N00-EMC-00072
Accessory: NA

Test Mode: TX APCO Digital C4FM
Test Frequency: 769.087500 MHz
Channel Spacing: 12.5 kHz

Power : 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	-57.3934 **	-58.4673 **
2307.2625	-13.0000	-55.5413 **	-55.0486 **
3076.3500	-13.0000	-51.5411 **	-51.9212 **
3845.4375	-13.0000	-49.7058 **	-49.6912 **
4614.5250	-13.0000	-49.2326 **	-48.7333 **
5383.6125	-13.0000	-46.0578 **	-45.7809 **
6152.7000	-13.0000	-44.4032 **	-44.8145 **
6921.7875	-13.0000	-43.7322 **	-43.7478 **
7690.8750	-13.0000	-42.8340 **	-41.7163 **



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&Firdaus

Sun, 11 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

Passed Results	Marginal Results	Failed Results
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Test: SAC Transmitter Radiated Emission

Model Number: H55TGT9PW8BN
Battery: PMNN4895A

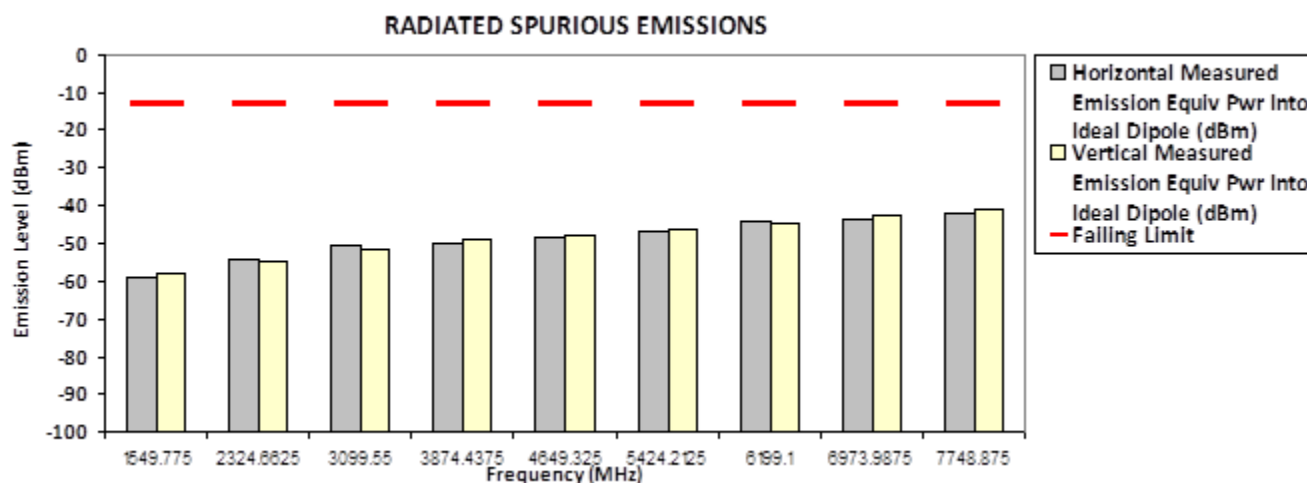
S/N: 437ZBG0577

EMC SR ID#: 0875N00-EMC-00072
Accessory: NA

Test Mode: TX APCO Digital C4FM
Test Frequency: 774.887500 MHz
Channel Spacing: 12.5 kHz

Power : 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	-58.8214 **	-57.9546 **
2324.6625	-13.0000	-54.4532 **	-54.8757 **
3099.5500	-13.0000	-50.6389 **	-51.4011 **
3874.4375	-13.0000	-49.9266 **	-49.1641 **
4649.3250	-13.0000	-48.2450 **	-47.9685 **
5424.2125	-13.0000	-47.0055 **	-46.3121 **
6199.1000	-13.0000	-44.1616 **	-44.5442 **
6973.9875	-13.0000	-43.4668 **	-42.4396 **
7748.8750	-13.0000	-42.2253 **	-41.0756 **



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&Firdaus

Sun, 11 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

Passed Results	Marginal Results	Failed Results
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Not for FCC review

Test: SAC Transmitter Radiated Emission

Model Number: H55TGT9PW8BN

S/N: 437ZBG0577

EMC SR ID#: 0875N00-EMC-00072

Battery: PMNN4895A

Accessory: NA

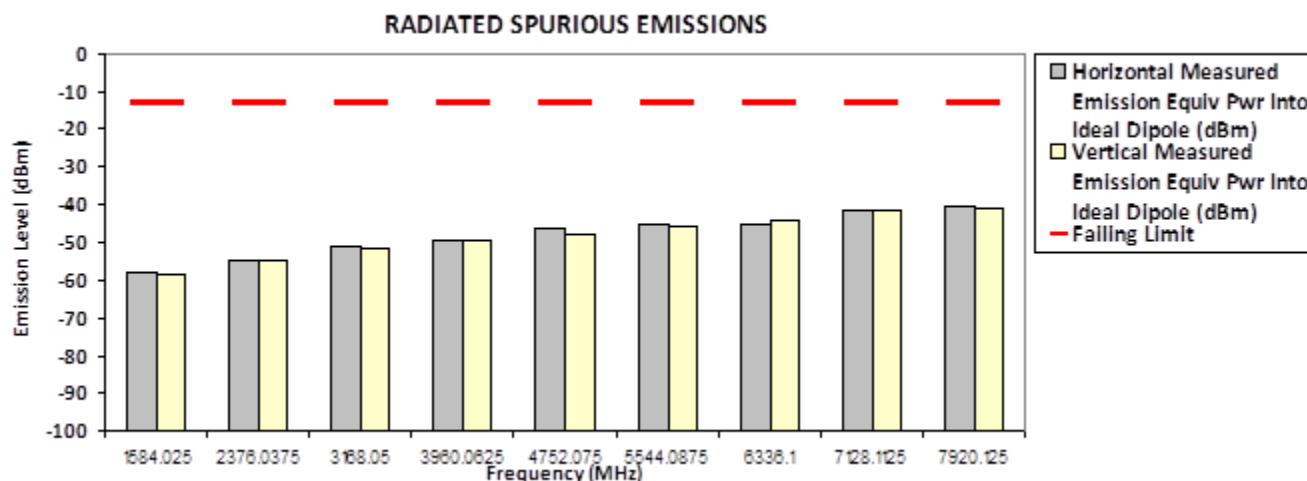
Test Mode: TX APCO Digital C4FM

Test Frequency: 792.012500 MHz

Channel Spacing: 12.5 kHz

Power : 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)
1584.0250	-13.0000	-57.9775 **	-58.4632 **
2376.0375	-13.0000	-54.6118 **	-54.6582 **
3168.0500	-13.0000	-50.8388 **	-51.7345 **
3960.0625	-13.0000	-49.5956 **	-49.5840 **
4752.0750	-13.0000	-46.1961 **	-47.6404 **
5544.0875	-13.0000	-45.4189 **	-45.6527 **
6336.1000	-13.0000	-45.0047 **	-44.1383 **
7128.1125	-13.0000	-41.7119 **	-41.5154 **
7920.1250	-13.0000	-40.4156 **	-41.2543 **



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&Firdaus

Sun, 11 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

Passed Results	Marginal Results	Failed Results
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Test: SAC Transmitter Radiated Emission

Model Number: H55TGT9PW8BN
Battery: PMNN4895A

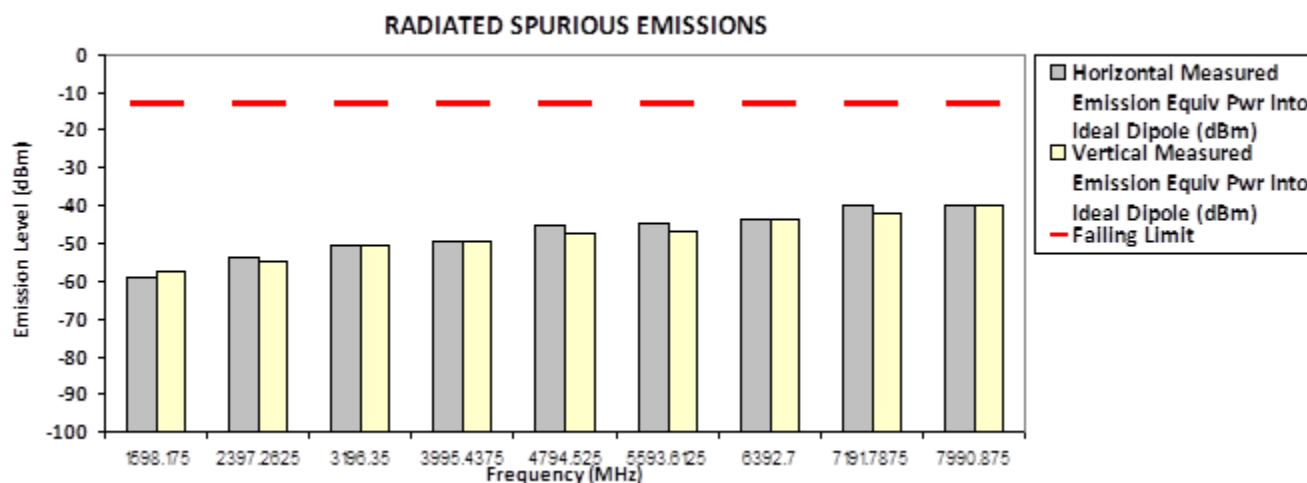
S/N: 437ZBG0577

EMC SR ID#: 0875N00-EMC-00072
Accessory: NA

Test Mode: TX APCO Digital C4FM
Test Frequency: 799.087500 MHz
Channel Spacing: 12.5 kHz

Power : 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	-58.9668 **	-57.3940 **
2397.2625	-13.0000	-53.7549 **	-54.5000 **
3196.3500	-13.0000	-50.5579 **	-50.5553 **
3995.4375	-13.0000	-49.7116 **	-49.5652 **
4794.5250	-13.0000	-45.4617 **	-47.4180 **
5593.6125	-13.0000	-44.7550 **	-46.6578 **
6392.7000	-13.0000	-43.9252 **	-43.9211 **
7191.7875	-13.0000	-40.1969 **	-42.0150 **
7990.8750	-13.0000	-40.0659 **	-40.2056 **



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&Firdaus

Sun, 11 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

Passed Results	Marginal Results	Failed Results
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Test: SAC Transmitter Radiated Emission

Model Number: H55TGT9PW8BN
Battery: PMNN4895A

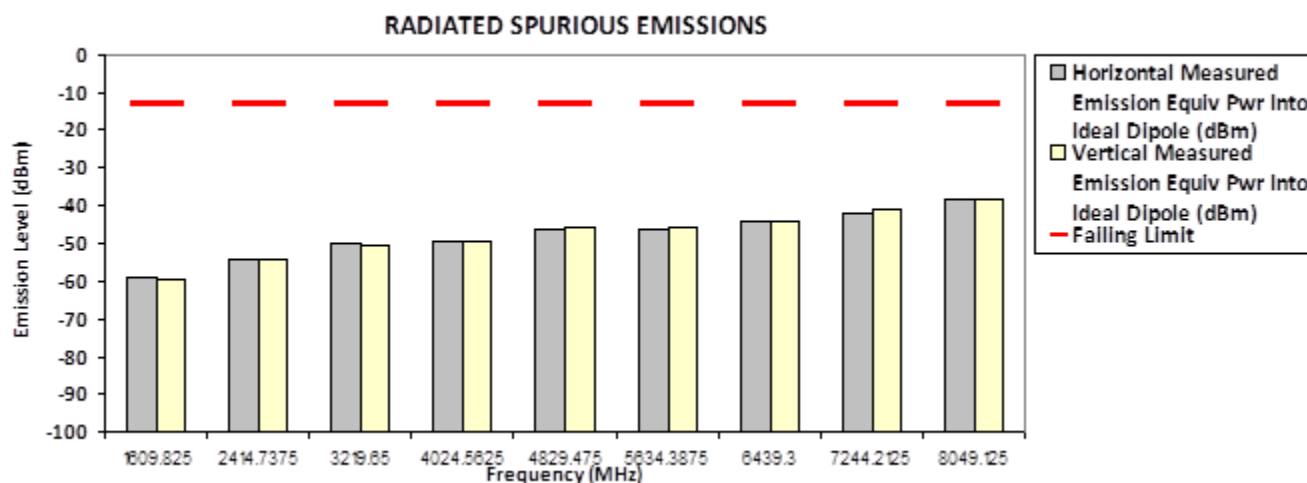
S/N: 437ZBG0577

EMC SR ID#: 0875N00-EMC-00072
Accessory: NA

Test Mode: TX APCO Digital C4FM
Test Frequency: 804.912500 MHz
Channel Spacing: 12.5 kHz

Power : 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	-59.1588 **	-59.3152 **
2414.7375	-13.0000	-54.4161 **	-54.3466 **
3219.6500	-13.0000	-49.8871 **	-50.3366 **
4024.5625	-13.0000	-49.4828 **	-49.6513 **
4829.4750	-13.0000	-46.4056 **	-45.9457 **
5634.3875	-13.0000	-46.1587 **	-45.9457 **
6439.3000	-13.0000	-43.9748 **	-44.4409 **
7244.2125	-13.0000	-42.3329 **	-40.9047 **
8049.1250	-13.0000	-38.4620 **	-38.4943 **



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&Firdaus

Sun, 11 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

Passed Results	Marginal Results	Failed Results
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Not for FCC review

Test: SAC Transmitter Radiated Emission

Model Number: H55TGT9PW8BN

S/N: 437ZBG0577

EMC SR ID#: 0875N00-EMC-00072

Battery: PMNN4895A

Accessory: NA

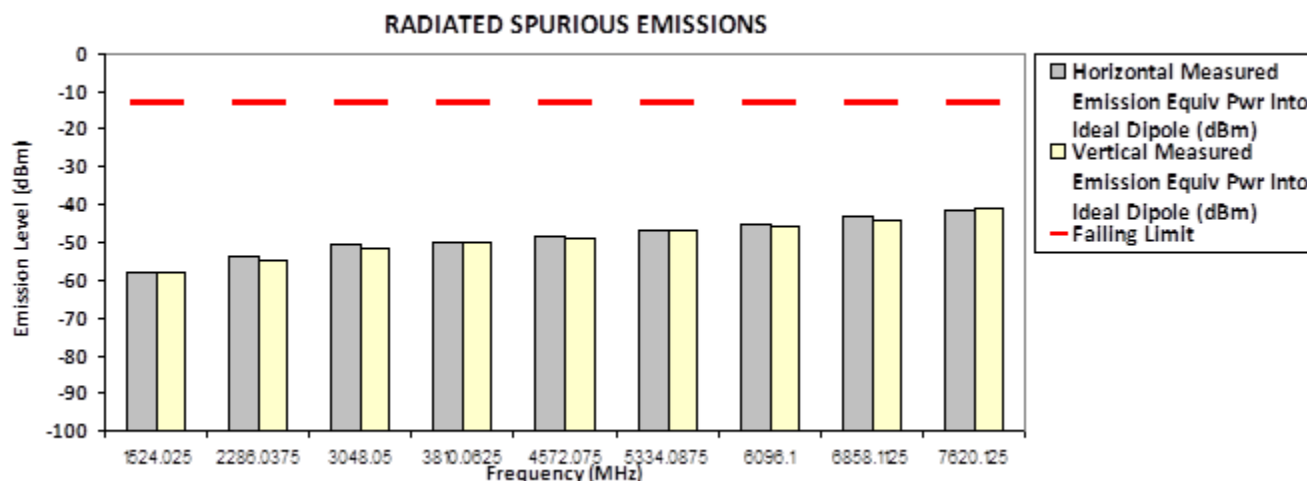
Test Mode: TX APCO Digital Phase II

Test Frequency: 762.012500 MHz

Channel Spacing: 12.5 kHz

Power : 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	-58.0712 **	-57.7983 **
2286.0375	-13.0000	-53.9044 **	-54.8198 **
3048.0500	-13.0000	-50.7170 **	-51.8073 **
3810.0625	-13.0000	-49.8241 **	-50.0729 **
4572.0750	-13.0000	-48.5584 **	-49.2014 **
5334.0875	-13.0000	-47.1048 **	-46.7309 **
6096.1000	-13.0000	-45.4987 **	-45.8559 **
6858.1125	-13.0000	-43.2520 **	-43.9486 **
7620.1250	-13.0000	-41.7745 **	-40.9911 **



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&Firdaus

Sun, 11 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

Passed Results	Marginal Results	Failed Results
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Test: SAC Transmitter Radiated Emission

Model Number: H55TGT9PW8BN
Battery: PMNN4895A

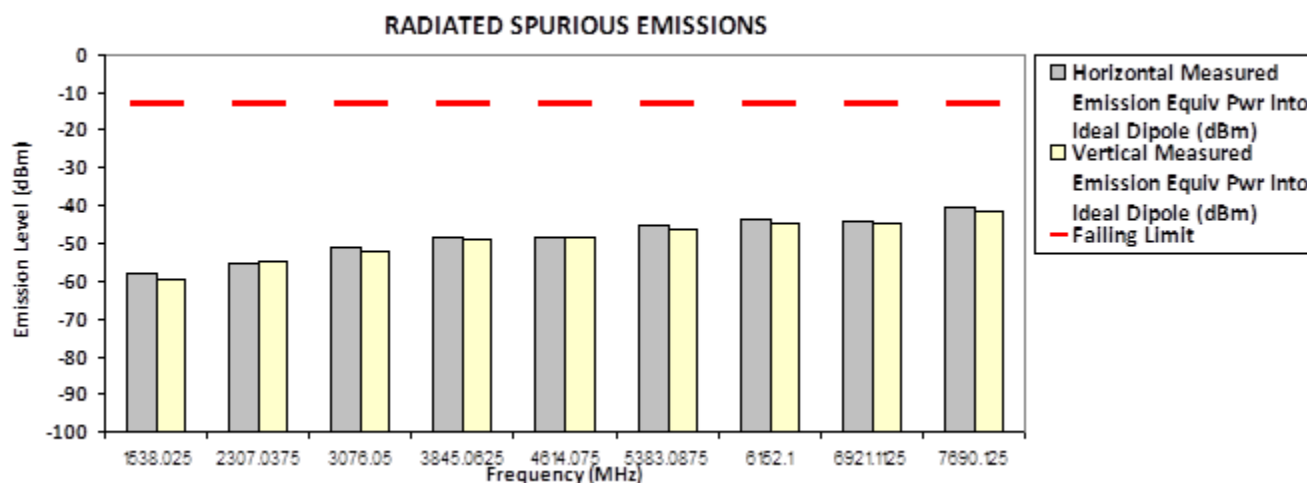
S/N: 437ZBG0577

EMC SR ID#: 0875N00-EMC-00072
Accessory: NA

Test Mode: TX APCO Digital Phase II
Test Frequency: 769.012500 MHz
Channel Spacing: 12.5 kHz

Power : 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)
1538.0250	-13.0000	-57.9731 **	-59.3806 **
2307.0375	-13.0000	-55.3733 **	-54.9502 **
3076.0500	-13.0000	-51.0189 **	-52.1478 **
3845.0625	-13.0000	-48.3591 **	-49.1238 **
4614.0750	-13.0000	-48.3354 **	-48.5387 **
5383.0875	-13.0000	-45.3337 **	-46.3206 **
6152.1000	-13.0000	-43.4397 **	-44.7671 **
6921.1125	-13.0000	-44.0362 **	-44.7980 **
7690.1250	-13.0000	-40.7739 **	-41.5530 **



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: Aiman&Firdaus

Sun, 11 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

Passed Results	Marginal Results	Failed Results
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Test: SAC Transmitter Radiated Emission

Model Number: H55TGT9PW8BN
Battery: PMNN4895A

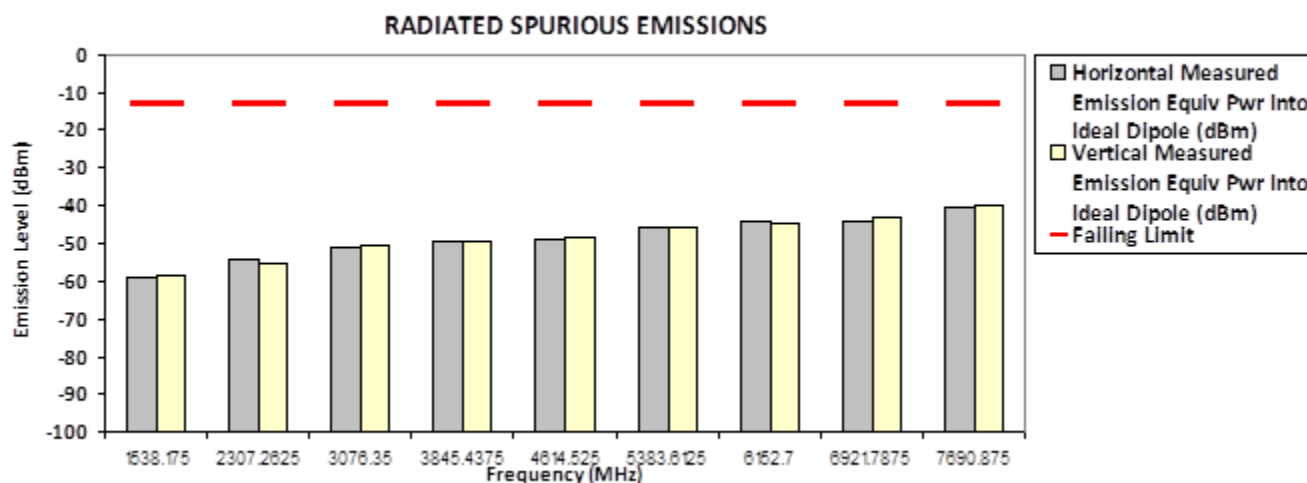
S/N: 437ZBG0577

EMC SR ID#: 0875N00-EMC-00072
Accessory: NA

Test Mode: TX APCO Digital Phase II
Test Frequency: 769.087500 MHz
Channel Spacing: 12.5 kHz

Power : 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	-58.9174 **	-58.2672 **
2307.2625	-13.0000	-54.3559 **	-55.3925 **
3076.3500	-13.0000	-50.9410 **	-50.4905 **
3845.4375	-13.0000	-49.6095 **	-49.3038 **
4614.5250	-13.0000	-48.7341 **	-48.3287 **
5383.6125	-13.0000	-45.7204 **	-45.9844 **
6152.7000	-13.0000	-44.3235 **	-44.8361 **
6921.7875	-13.0000	-44.2430 **	-43.3556 **
7690.8750	-13.0000	-40.6932 **	-39.9337 **



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: Aiman&Firdaus

Sun, 11 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

Passed Results	Marginal Results	Failed Results
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Test: SAC Transmitter Radiated Emission

Model Number: H55TGT9PW8BN
Battery: PMNN4895A

S/N: 437ZBG0577

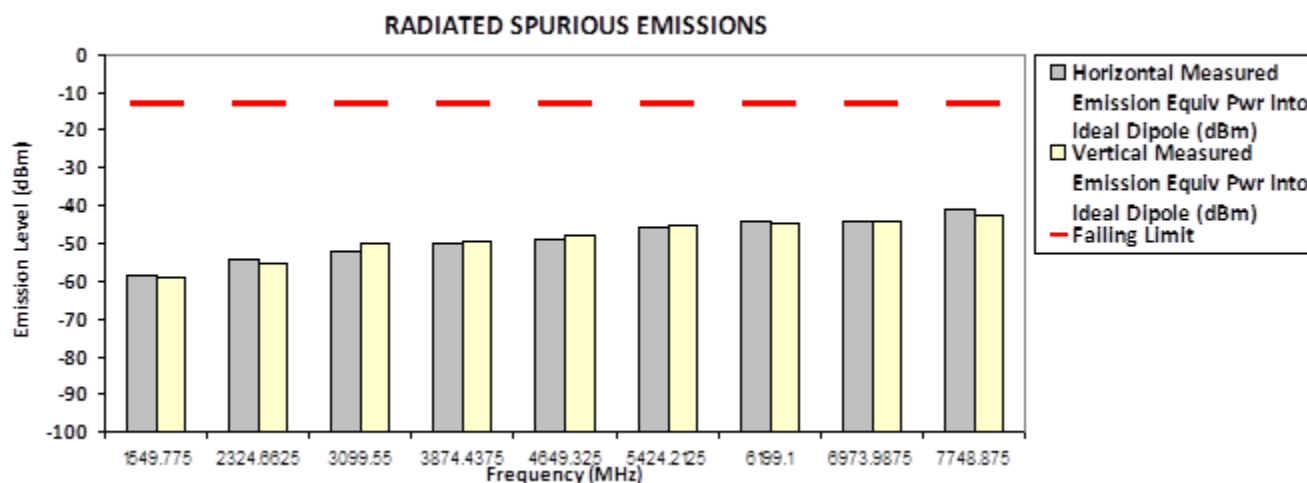
EMC SR ID#: 0875N00-EMC-00072
Accessory: NA

Test Mode: TX APCO Digital Phase II
Channel Spacing: 12.5 kHz

Test Frequency: 774.887500 MHz

Power : 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	-58.6739 **	-58.9154 **
2324.6625	-13.0000	-54.2161 **	-55.4212 **
3099.5500	-13.0000	-52.3235 **	-49.8924 **
3874.4375	-13.0000	-50.1265 **	-49.2556 **
4649.3250	-13.0000	-48.8334 **	-47.6620 **
5424.2125	-13.0000	-45.7039 **	-45.2255 **
6199.1000	-13.0000	-44.3051 **	-44.5862 **
6973.9875	-13.0000	-44.0227 **	-44.0597 **
7748.8750	-13.0000	-41.2632 **	-42.3741 **



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: Aiman&Firdaus

Sun, 11 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

Passed Results	Marginal Results	Failed Results
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Not for FCC review

Test: SAC Transmitter Radiated Emission

Model Number: H55TGT9PW8BN
 Battery: PMNN4895A

S/N: 437ZBG0577

EMC SR ID#: 0875N00-EMC-00072
 Accessory: NA

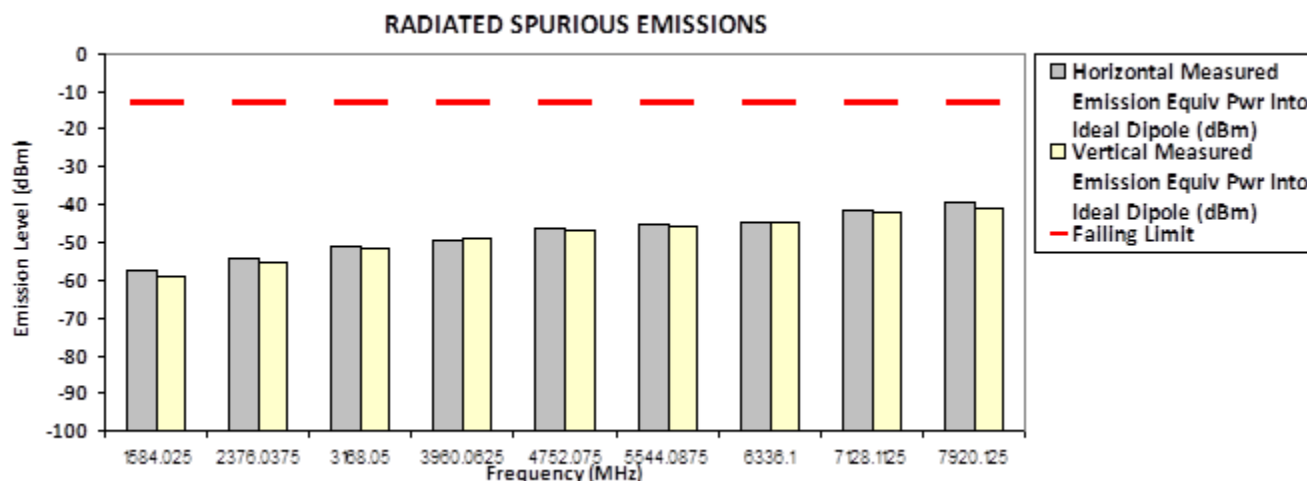
Test Mode: TX APCO Digital Phase II

Test Frequency: 792.012500 MHz

Channel Spacing: 12.5 kHz

Power : 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)
1584.0250	-13.0000	-57.3256 **	-59.0878 **
2376.0375	-13.0000	-54.4197 **	-55.3039 **
3168.0500	-13.0000	-51.0418 **	-51.4972 **
3960.0625	-13.0000	-49.4908 **	-49.1406 **
4752.0750	-13.0000	-46.2784 **	-46.9006 **
5544.0875	-13.0000	-45.4131 **	-45.6751 **
6336.1000	-13.0000	-44.9411 **	-44.5246 **
7128.1125	-13.0000	-41.7581 **	-42.0635 **
7920.1250	-13.0000	-39.3004 **	-40.8684 **



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: Aiman&Firdaus

Sun, 11 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

Passed Results	Marginal Results	Failed Results
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Test: SAC Transmitter Radiated Emission

Model Number: H55TGT9PW8BN
Battery: PMNN4895A

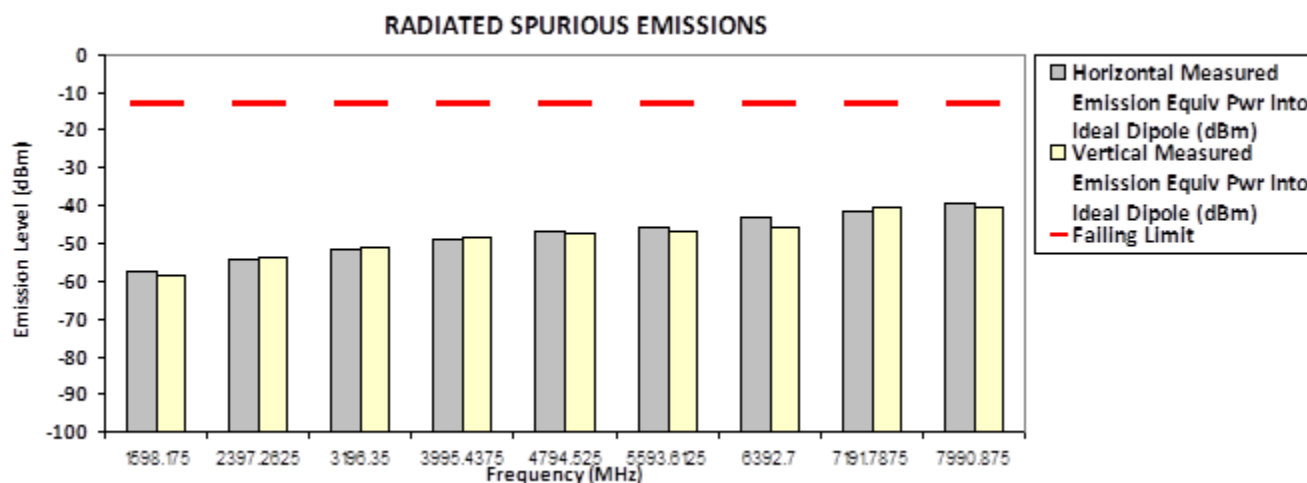
S/N: 437ZBG0577

EMC SR ID#: 0875N00-EMC-00072
Accessory: NA

Test Mode: TX APCO Digital Phase II
Test Frequency: 799.087500 MHz
Channel Spacing: 12.5 kHz

Power : 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	-57.6311 **	-58.1966 **
2397.2625	-13.0000	-54.3926 **	-53.7767 **
3196.3500	-13.0000	-51.6743 **	-50.9813 **
3995.4375	-13.0000	-48.9748 **	-48.4895 **
4794.5250	-13.0000	-46.6064 **	-47.1277 **
5593.6125	-13.0000	-45.6445 **	-46.6370 **
6392.7000	-13.0000	-43.0910 **	-45.6841 **
7191.7875	-13.0000	-41.5551 **	-40.5384 **
7990.8750	-13.0000	-39.5219 **	-40.3889 **



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: Aiman&Firdaus

Sun, 11 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

Passed Results	Marginal Results	Failed Results
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Test: SAC Transmitter Radiated Emission

Model Number: H55TGT9PW8BN
Battery: PMNN4895A

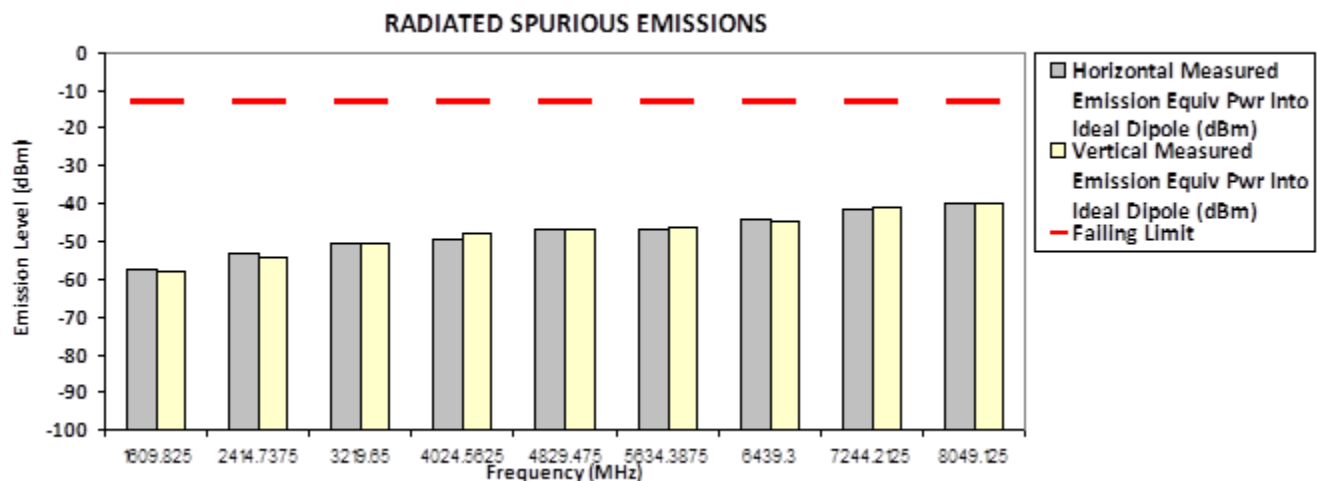
S/N: 437ZBG0577

EMC SR ID#: 0875N00-EMC-00072
Accessory: NA

Test Mode: TX APCO Digital Phase II
Test Frequency: 804.912500 MHz
Channel Spacing: 12.5 kHz

Power : 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	-57.5913 **	-58.1317 **
2414.7375	-13.0000	-53.2043 **	-54.0805 **
3219.6500	-13.0000	-50.5727 **	-50.5155 **
4024.5625	-13.0000	-49.5662 **	-48.1515 **
4829.4750	-13.0000	-46.7118 **	-46.7192 **
5634.3875	-13.0000	-46.9370 **	-46.3220 **
6439.3000	-13.0000	-44.1637 **	-44.9954 **
7244.2125	-13.0000	-41.4270 **	-41.2086 **
8049.1250	-13.0000	-40.1494 **	-39.8115 **



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: Aiman&Firdaus

Sun, 11 May, 2025

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

System MU: 4.03 dB

Temp(Deg): 23.4 Hum(%RH): 64.4

Remarks:

Passed Results	Marginal Results	Failed Results
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6.10.4. Test Limit

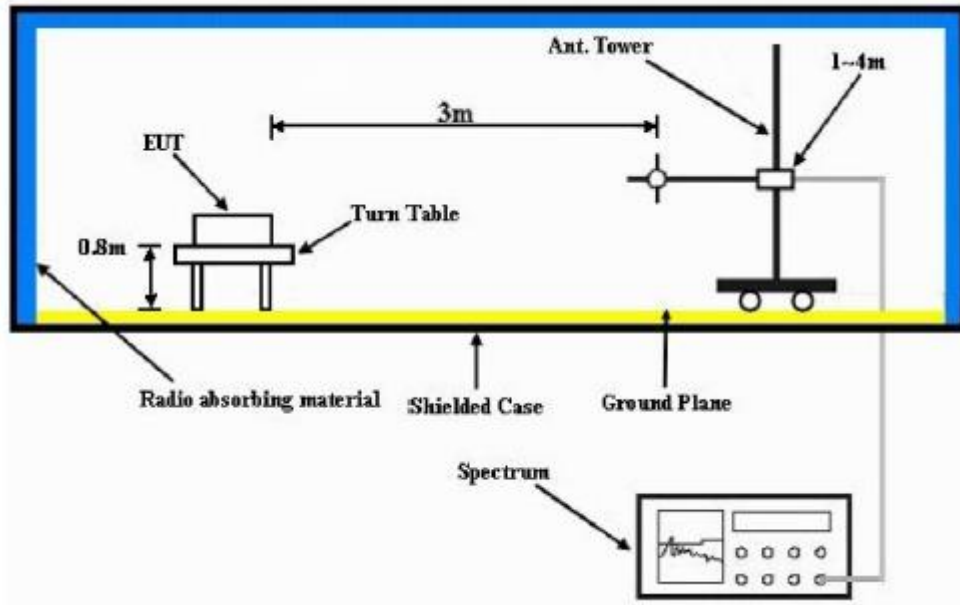
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

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

Ant gain (dBi) = -0.8 dBi
 Ant gain (dBd) = -0.8 dBi - 2.15 dB
 = -2.95 dBd

Temperature	25°C				
Voltage (V)	7.5V				
Frequency (MHz)	Cond Power (W)	Cond Power (dBm)	Antenna Gain (dBd)	ERP (dBm)	ERP (W)
764.01250	2.96	34.71	-2.95	31.76	1.50
769.01250	2.24	33.50	-2.95	30.57	1.14
769.08750	2.95	34.70	-2.95	31.73	1.49
774.93750	2.24	33.50	-2.95	30.57	1.14
794.01250	2.94	34.68	-2.95	31.75	1.49
799.01250	2.23	33.48	-2.95	30.53	1.13
804.91250	2.93	34.67	-2.95	31.70	1.48
804.93750	2.22	33.46	-2.95	30.53	1.13

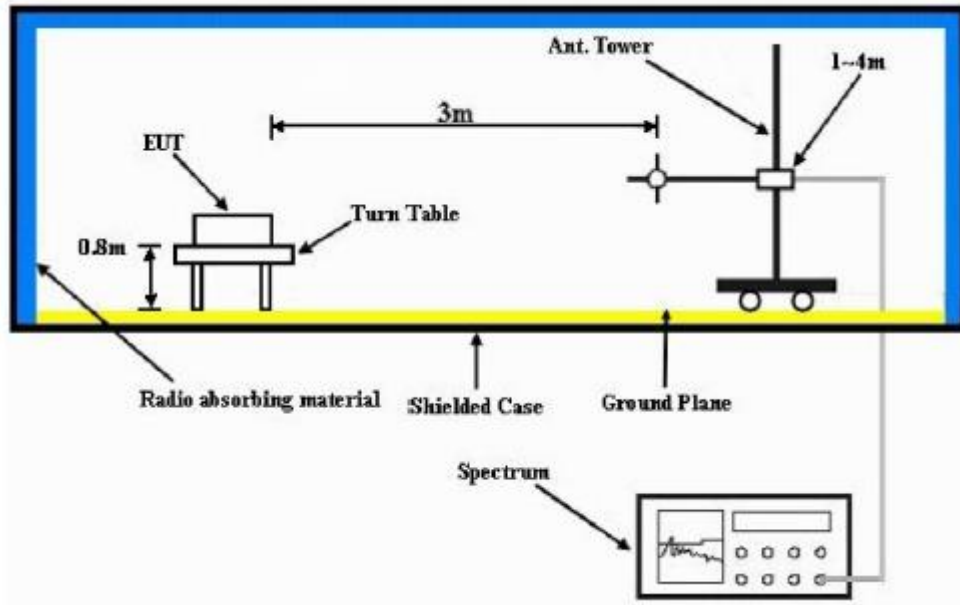
6.11.3. Test Limit

FCC CFR 47 Part 90.541 The transmitting power and antenna height of base, mobile, portable and control stations operating in the 769-775 MHz and 799-805 MHz frequency bands must not exceed the maximum limits in this section. Power limits are listed in effective radiated power (ERP).

- (a) The transmitting power and antenna height of base stations must not exceed the limits given in paragraph (a) of § 90.635.
- (b) The transmitting power of a control station must not exceed 200 watts ERP.
- (c) The transmitting power of a mobile unit must not exceed 100 watts ERP.
- (d) The transmitting power of a portable (hand-held) unit must not exceed 3 watts ERP.
- (e) Transmitters operating on the narrowband low power channels listed in § 90.531(b)(3) and (4), must not exceed 2 watts 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

S/N: 437ZBG0577

Channel Spacing: 12.5 kHz

Accessory: AN000297A01

Battery: PMNN4895A

TX Power: 2.99 Watts

Modulation: FM

Frequency Channel: 799.0875 MHz

Antenna Polarization	2Fc (MHz)	EIRP (dBm)	Limit (dBm)
Horizontal	1598.1750	-56.91	-40
Vertical	1598.1750	-57.25	-40

Frequency Channel: 804.9125 MHz

Antenna Polarization	2Fc (MHz)	EIRP (dBm)	Limit (dBm)
Horizontal	1609.8250	-56.85	-40
Vertical	1609.8250	-56.87	-40

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 ~