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<table><tr><td>Date/s Tested</td><td>: 04-APRIL-2026 - 18-APRIL-2026</td></tr><tr><td>Report Issue Date</td><td>: 11-JUNE-2026</td></tr><tr><td>Test Site Location</td><td>: Motorola Penang Advanced Communication Laboratory (ACL)</td></tr><tr><td>Manufacturer</td><td>: Motorola Solutions Malaysia Sdn Bhd</td></tr><tr><td>Manufacturer Address</td><td>: Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia</td></tr><tr><td>Requestor</td><td>: SUBRAMANIAM VASU</td></tr><tr><td>Product Type</td><td>: Mobile</td></tr><tr><td>Product Version (PMN)</td><td>: MR7r</td></tr><tr><td>Model Number (HVIN)</td><td>: AAM29JNN9YA1AN</td></tr><tr><td>Frequency Band</td><td>: 136-174MHz</td></tr><tr><td>Max RF Output Power</td><td>: 30 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>CAB IB</td><td>: MY0001</td></tr><tr><td>FCC Registrations</td><td>: 461337</td></tr><tr><td>Firmware Version (FVIN)</td><td>: D02.26.02.0175</td></tr></table> The equipment was tested accordance to the requirement listed below: (LMR) FCC 47 CFR Part 2 / 22 / 74 / 80 / 90 ISED RSS-Gen (Issue 5), Amendment 1 (Mar 2019), Amendment 2 (Feb 2021) / ISED PASS RSS-119 Issue 12, Amendment 1 (April1, 2022), Amendment 2 (July 28, 2025) / ISED RSS-182 Issue 6, Amendment 1 (September 2023), Amendment 2 (August 2024)		Date/s Tested	: 04-APRIL-2026 - 18-APRIL-2026	Report Issue Date	: 11-JUNE-2026	Test Site Location	: Motorola Penang Advanced Communication Laboratory (ACL)	Manufacturer	: Motorola Solutions Malaysia Sdn Bhd	Manufacturer Address	: Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia	Requestor	: SUBRAMANIAM VASU	Product Type	: Mobile	Product Version (PMN)	: MR7r	Model Number (HVIN)	: AAM29JNN9YA1AN	Frequency Band	: 136-174MHz	Max RF Output Power	: 30 Watts	Applicant Name	: Motorola Solutions Inc	Applicant Address	: Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia.	CAB IB	: MY0001	FCC Registrations	: 461337	Firmware Version (FVIN)	: D02.26.02.0175
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Prepared By:  Farah Nur Arina 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	24 May 2026	Farah
Rev. B	Change spurious level (MHz) to spurious level (dBm)	1-Jul-2026	Farah
Rev. C	Change voltage to 13.6V in clause 6.1.2	4-Aug-2026	Farah
Rev. D	Update clause 6.11.3 ERP test limit	1-Sep-2026	Farah

1.0 General Information

EUT Description:

Technologies	Land Mobile Radio (LMR)
Modulation Type	Analog, 4FSK

The EUT contains following accessory devices and data cable:

Item	Brand	Model or P/N
POWER CORD, US	MOTOROLA	3087791G01
GENESEE COLOR DISPLAY CONTROL HEAD	MOTOROLA	PMLN8805A
LTD DESKTOP MOBILE MIC	MOTOROLA	RMN5050A
DESKTOP TRAY WITH SPEAKER	MOTOROLA	RSN4005A
POWER SUPPLY ADAPTOR, EXT 280W POWER SUPPLY, 100-240VAC, SAE	MOTOROLA	PS000280A02
ANTENNA 132-174 3DB GAIN	MOTOROLA	HAD4022A
MOBILE ANTENNA GNSS L1 & L5 MAGNET MOUNT	MOTOROLA	PMAN4013A

General Description of Applied Standards

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

ANSI C63.26-2015

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

Deviation from standard

Not applicable as no deviation from standard test method

Antenna gain disclaimer

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

Test configuration of EUT

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

2.0 Summary of Test Results

FCC General Rules Part (47CFR)	ISED General Rules Part	Test Item	Result	Remarks	Serial number tested
2.1046(a), 22.565(f), 74.461	RSS-119	RF Power Output	Pass		008TCF1520
2.1055, 22.355, 74.464	RSS-119	Frequency Stability	Pass		008TCF1507
2.1047	-	Audio Frequency Response	Pass		008TCF1520
2.1047	-	Audio Low Pass Filter Response	Pass		008TCF1520
2.1047, 74.463	-	Modulation limiting	Pass		008TCF1520
2.1049, 22.359, 90.21, 74.462	RSS-119	Occupied Bandwidth	Pass	16K0F3E: 15.0258 kHz 11K0F3E: 9.8833 kHz 7K60F1D/FXD: 7.8242 kHz 7K60F1E/FXE: 7.8533 kHz 7K60F1W: 8.2213 kHz	008TCF1520
2.1051, 22.359 (a), (b)	-	Band Edge Conducted Spurious Emission	Pass		008TCF1520
90.214	RSS-119	Transient Frequency Behavior	Pass		008TCF1520
90.543(a), (b)	RSS-119	Adjacent Channel Power	NA		
2.1051, 22.359, 90.210 74.462(c)	RSS-119	Conducted Spurious Emissions	Pass	Worst case: -48.46 dBm	008TCF1520
2.1051, 22.359, 74.462(c)	RSS-119	Radiated Spurious Emission	Pass	Worst case: -54.91 dBm (margin: 34.91 dB)	008TCF1523
-	-	GNSS (EIRP for 1559 – 1610MHz)	NA		
80.215(i)	-	Effective Radiated Power (ERP)	Pass		008TCF1523

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	26-Feb-26	26-Feb-27
AUDIO ANALYZER	U8903B	MY61070006	19-Jun-25	19-Jun-26
CXA SIGNAL ANALYZER	N9000B	MY60250471	19-Sep-25	19-Sep-26
POWER SENSOR	E4412A	MY50260020	25-Nov-25	25-Nov-26
POWER SUPPLY	6031A	3018A01914	23-Feb-26	23-Feb-27
POWER METER	E4416A	MY50000116	26-Aug-25	26-Aug-26
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_R1.2.3)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
SWITCH CONTROL UNIT	3488A	2719A36210	Not Required	Not Required
ATTENUATOR / SWITCH DRIVER	11713A	3748A09090	Not Required	Not Required
POWER SENSOR	E9301B	MY41495629	18-Jun-25	18-Jun-26
STEP ATTENUATOR	8494G	MY42145194	18-Jun-25	18-Jun-26
STEP ATTENUATOR	8496G	MY42140158	12-Sep-25	12-Sep-26
POWER SUPPLY	6033A	3004A05137	12-Aug-25	12-Aug-26
AUDIO ANALYZER	8903B	3729A17409	25-Jul-25	25-Jul-26
SPECTRUM ANALYZER	E4445A	MY46181262	21-May-25	21-May-26
CXA SIGNAL ANALYZER	N9000B	MY63210311	12-Dec-25	12-Dec-26
MODULATION ANALYZER	8901B	2920A02173	17-Nov-25	17-Nov-26
POWER METER	E4416A	GB41293747	10-Nov-25	10-Nov-26
MXG SIGNAL GENERATOR	N5181B	MY62220503	26-Nov-25	26-Nov-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 1.23.07)

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	6032A	2723A02219	27-Aug-25	27-Aug-26
SPECTRUM ANALYZER	E4445A	MY45301089	20-Sep-25	20-Sep-26
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

Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMI TEST RECEIVER	ESW26	103229	11-Aug-25	10-Aug-26
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-780208636	Not Required	Not Required
POWER SUPPLY	6032A	MY41001736	08-Aug-25	08-Aug-26
SIGNAL ANALYZER	FSV40	101432	07-Aug-25	06-Aug-26
DATA LOGGER	SDL500	A.016800	30-Jun-25	30-Jun-26
BILOG ANTENNA	CBL6112B	2950	09-Apr-25	09-Jul-26
BILOG ANTENNA	CBL6112D	55546	30-Jun-25	30-Jun-26
DRG HORN FREQ.	SAS-571	566	09-Feb-26	09-Feb-27
DRG HORN FREQ.	SAS-571	1027	21-Jul-25	21-Jul-26
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170143	30-Sep-25	30-Sep-26
PREAMPLIFIER	PAM-0118P	427	02-Dec-25	02-Dec-26
PREAMPLIFIER 1-18GHz	EMC0518A45SE	981066	23-Jan-25	22-Jul-26
PREAMPLIFIER 18-40GHz	JS44-18004000-33-8P	2034566	Not Required	Not Required
SIGNAL GENERATOR	SMB100A	181117	02-Sep-25	02-Sep-26
LOOP ANTENNA	6502	00208416	06-Nov-25	06-Nov-26
Test Software	EMC.FCC.IC.RE.v1.8.2			
Version	1.8.2			

5.0 Test Condition

5.1. Transmitter Test Conditions

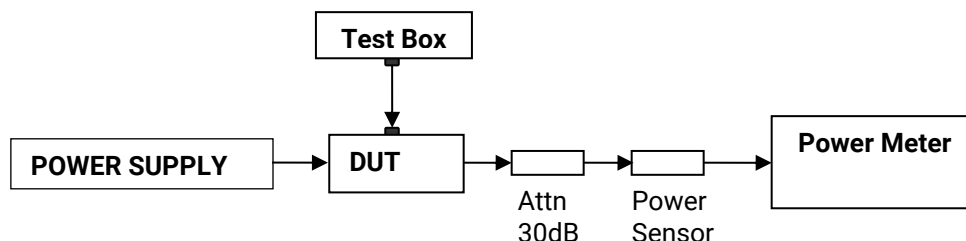
Test Item, (Channel Spacing)	Power (W)	Modulation	Test Frequency (MHz)	Tested By	Environmental conditions
RF Output Power	Low & Max	FM	138.0125, 158.5500, 161.7000, 173.9875	Farah	23.4°C, 50%RH
Frequency Stability	Max	FM	158.5500	Farah	25.1°C, 54.3%RH, 60.3°C, 50%RH, -30.1°C, 51.2%RH
Audio Frequency Response (12.5kHz / 25kHz)	Max	FM	158.5500	Farah	23.4°C, 50%RH
Audio Low Pass Filter Response (12.5kHz / 25kHz)	Max	FM	158.5500	Farah	23.4°C, 50%RH
Modulation limiting (12.5kHz / 25kHz)	Max	FM	158.5500	Farah	23.4°C, 50%RH
Occupied Bandwidth (12.5kHz / 20kHz / 25kHz)	Max	FM/4FSK	138.0125, 158.5500, 161.7000, 173.3875, 173.9875	Farah	23.4°C, 50%RH
Band Edge Conducted Spurious Emissions (Part 22) (12.5kHz / 25kHz)	Max	FM/4FSK	157.7700, 158.6700	Farah	23.4°C, 50%RH
Transient Frequency Behavior (UHF & VHF Band) (12.5kHz / 25kHz)	Max	FM	158.5500	Farah	23.4°C, 50%RH
Adjacent Channel Power (700MHz Band) (12.5kHz / 25kHz)	Max	FM/4FSK	NA		
Conducted Spurious Emissions- (12.5kHz / 25kHz)	Low / Max	FM/4FSK	138.0125, 158.5500, 161.7000, 173.3875, 173.9875	Farah	23.4°C, 50%RH
Radiated Spurious Emission (12.5kHz / 25kHz)	Low / Max	FM/4FSK	138.0125, 158.5500, 161.7000, 173.3875, 173.9875	Firdaus & Haniff	23.4°C, 50%RH
GNSS (EIRP for 1559 - 1610MHz) (12.5kHz / 25kHz)	Max	FM	NA		
Effective Radiated Power (ERP) (12.5kHz / 25kHz)	Max	FM	158.5500	Rezza & Fuad	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 average 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, with unmodulated carrier.
- 4) Record the power into the test report.

6.1.2. Test Result

Temperature	25°C				Remark
Voltage (V)	13.6V				
Frequency (MHz)	Low Power (W)	Current (A)	Max Power (W)	Current (A)	
138.01250	0.92	1.59	29.70	4.59	Not for FCC review
158.55000	0.93	1.59	28.50	4.65	Part 80/Not for ISED review
158.55000	0.93	1.59	24.80	4.60	
161.70000	0.92	1.59	28.90	4.68	
173.98750	0.91	1.65	29.30	5.37	

Remark:

Low Power is within ± 1 dB of the manufacturer's Rated Power 1W (0.79W - 1.26W)

Max Power is within ± 1 dB of the manufacturer's Rated Power 25W (19.86W - 31.47W)

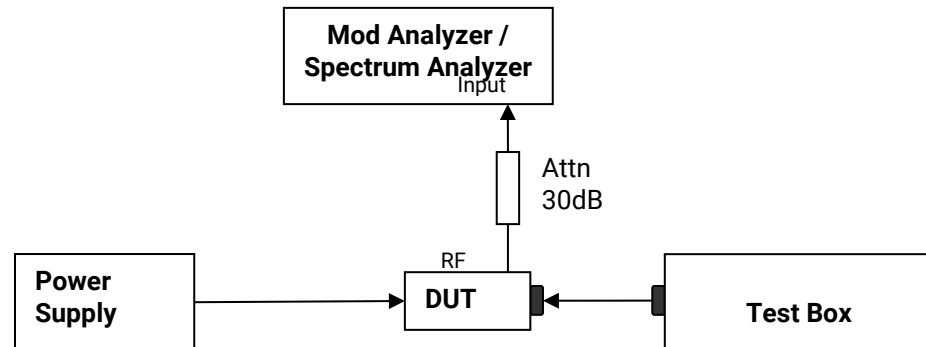
6.1.3. Test Limit

For RSS-119

Table 2 – Transmitter Output Power	
Frequency Bands (MHz)	Transmitter Output Power (W)
	Mobile Equipment
138-174	60
406.1-430 and 450-470	60
768-776 and 798-806	30
	3W ERP for portable equipment
806-821/851-866 and 821-824/866-869	30

6.2. Frequency Stability

6.2.1. Test Setup

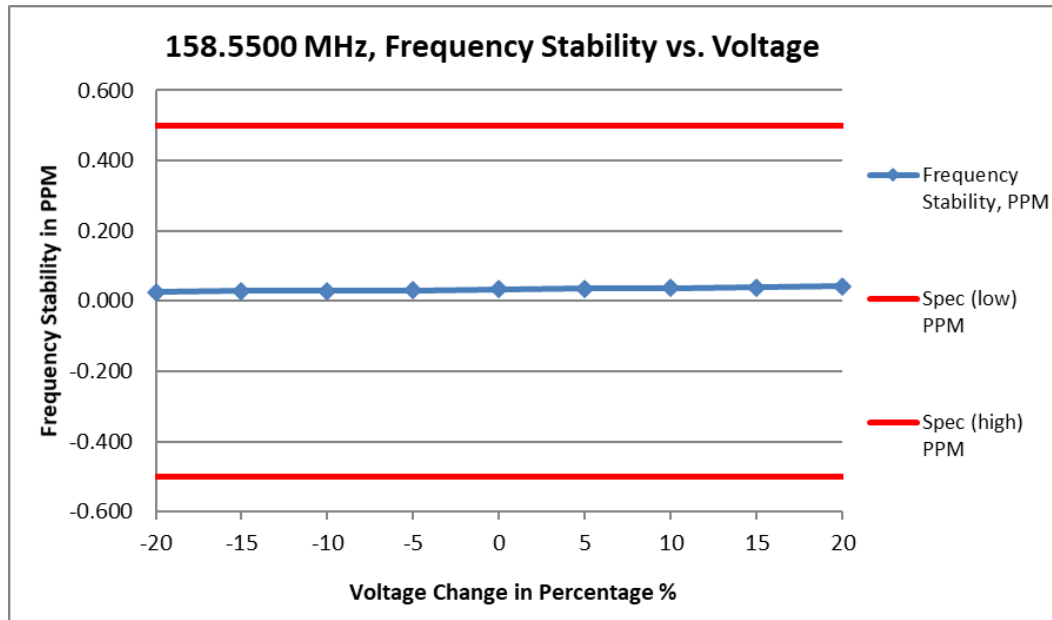


- 1) The DUT transmitter output port was connected to Modulation / Spectrum Analyzer.
- 2) Path loss for the measurement included.
- 3) Transmit the DUT and record the freq in MCF_{MHz} .
- 4) Test in 2 conditions:
 - Temperature: The frequency of the transmitter was measured from -30°C to 50°C.
 - Supply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

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

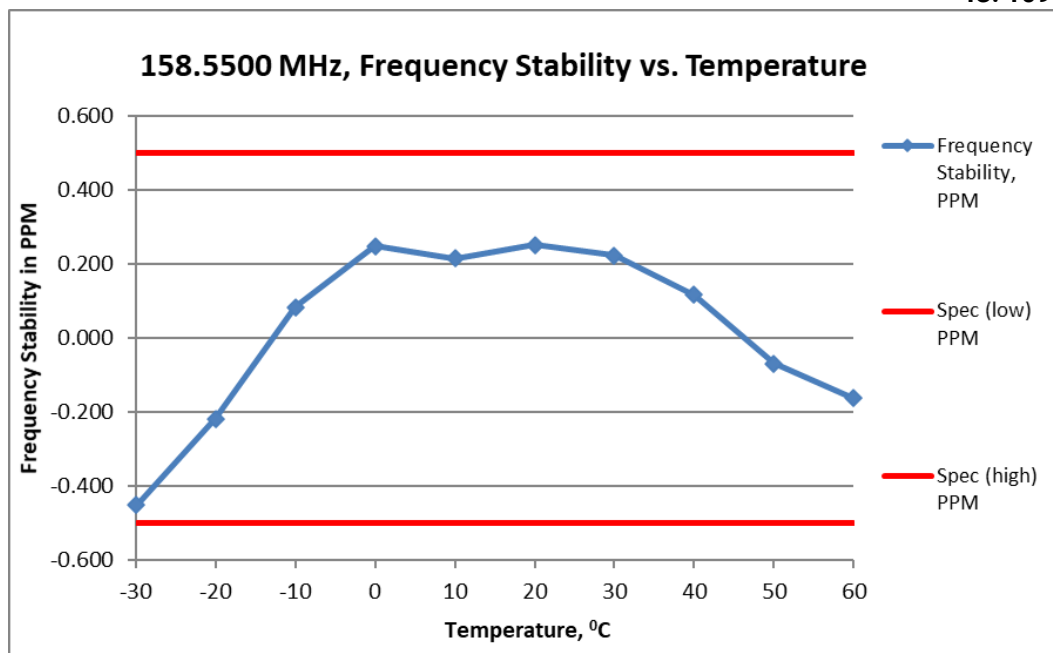
Where: MCF_{MHz} is the Measured Carrier Frequency in MHz
 ACF_{MHz} is the Assigned Carrier Frequency in MHz

6.2.2. Test Result



(i) Frequency Stability VS Voltage

Frequency / Channel Spacing	158.5500 MHz / 12.5 kHz				
Temperature, °C	25				
Voltage %	Voltage, V	Frequency, MHz	Frequency Stability, PPM	Spec (low) PPM	Spec (high) PPM
-20	10.880	158.550004	0.026	-0.500	0.500
-15	11.560	158.550004	0.028	-0.500	0.500
-10	12.240	158.550005	0.029	-0.500	0.500
-5	12.920	158.550005	0.031	-0.500	0.500
0	13.600	158.550005	0.034	-0.500	0.500
5	14.280	158.550006	0.035	-0.500	0.500
10	14.960	158.550006	0.038	-0.500	0.500
15	15.640	158.550006	0.038	-0.500	0.500
20	16.320	158.550007	0.043	-0.500	0.500



(ii) Frequency Stability VS temperature

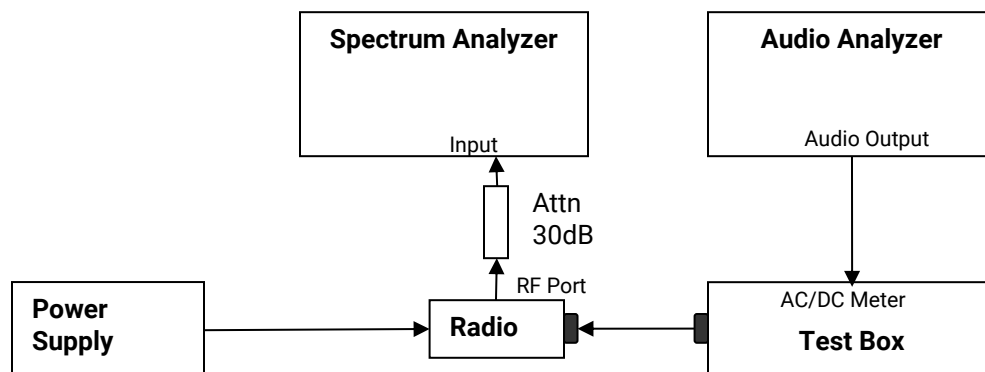
Frequency / Channel Spacing	158.5500 MHz / 12.5 kHz			
Voltage, V	13.6			
Temperature, °C	Frequency, MHz	Frequency Stability, PPM	Spec (low) PPM	Spec (high) PPM
-30	158.549928	-0.451	-0.500	0.500
-20	158.549965	-0.219	-0.500	0.500
-10	158.550013	0.083	-0.500	0.500
0	158.550039	0.248	-0.500	0.500
10	158.550034	0.214	-0.500	0.500
20	158.550040	0.250	-0.500	0.500
30	158.550035	0.221	-0.500	0.500
40	158.550018	0.115	-0.500	0.500
50	158.549989	-0.070	-0.500	0.500
60	158.549974	-0.163	-0.500	0.500

6.2.3. Test Limit

As per manufacturer declared spec +/- 0.5ppm

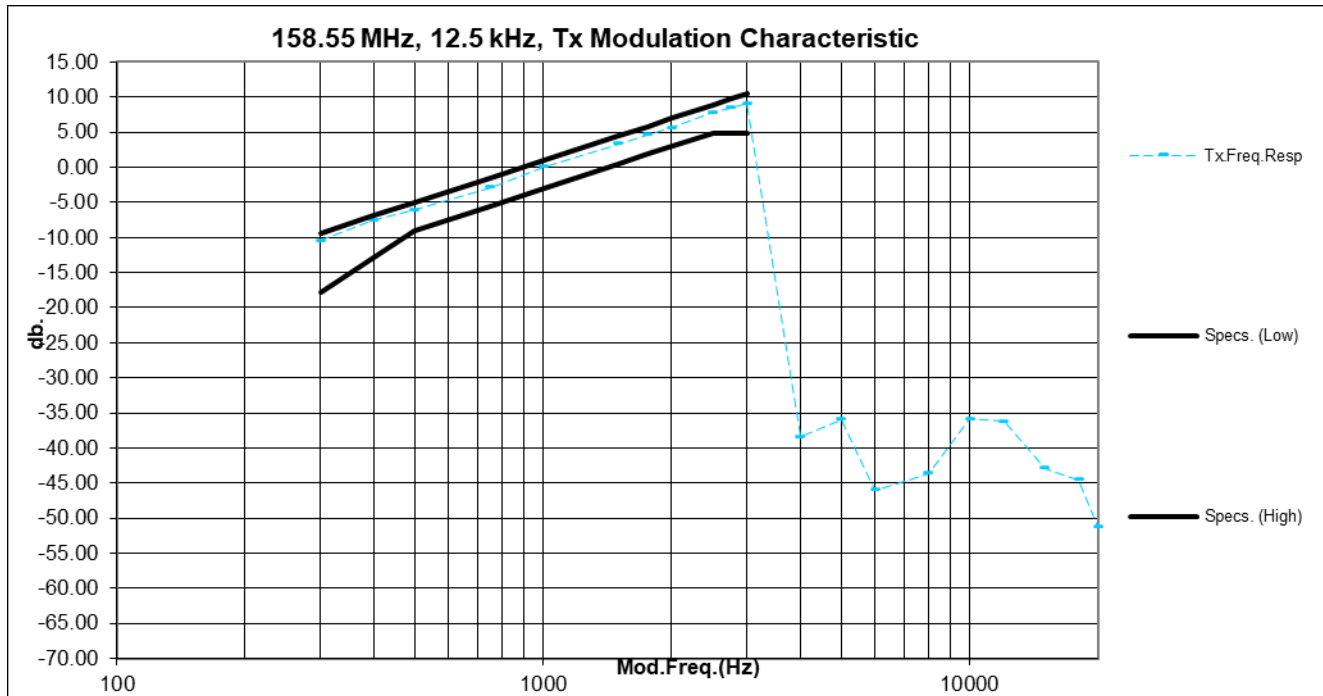
6.3. Modulation Characteristics

6.3.1. Test Setup

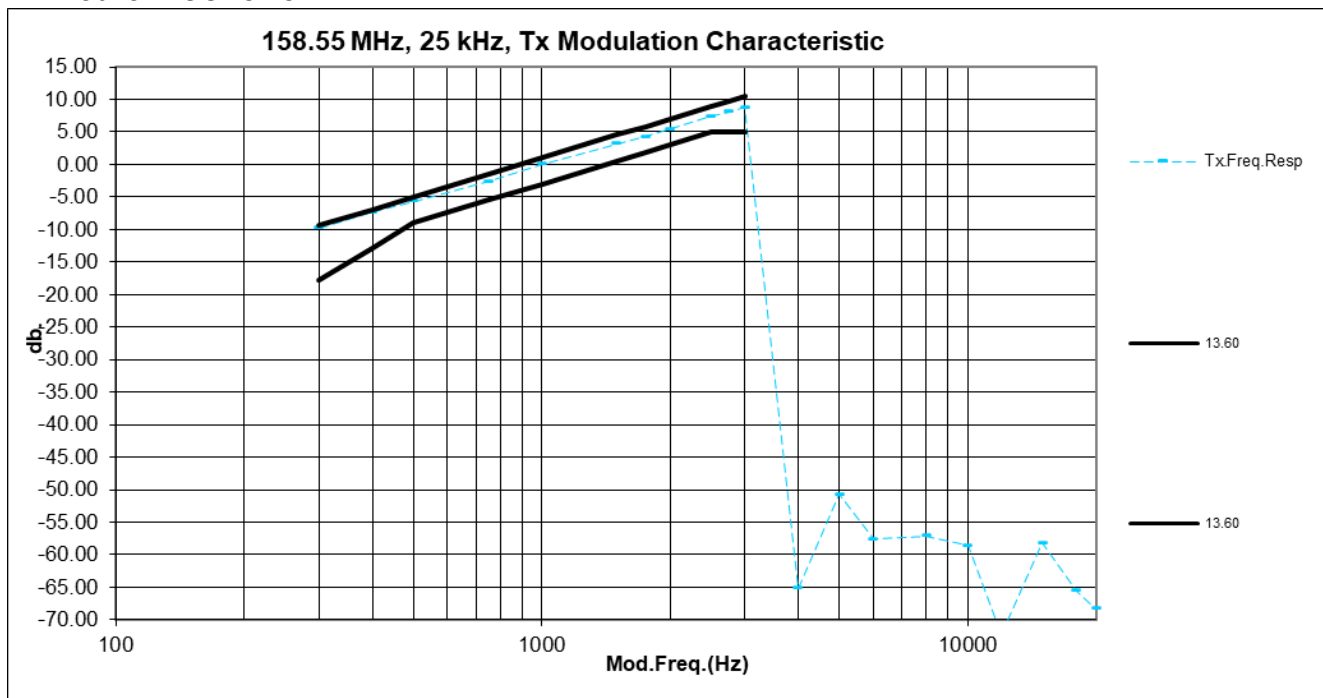


- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Path loss for the measurement included.
- 3) Set the audio bandwidth filter to 15 kHz and 50 kHz.
- 4) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 20% of the Full rated system deviation.
- 5)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

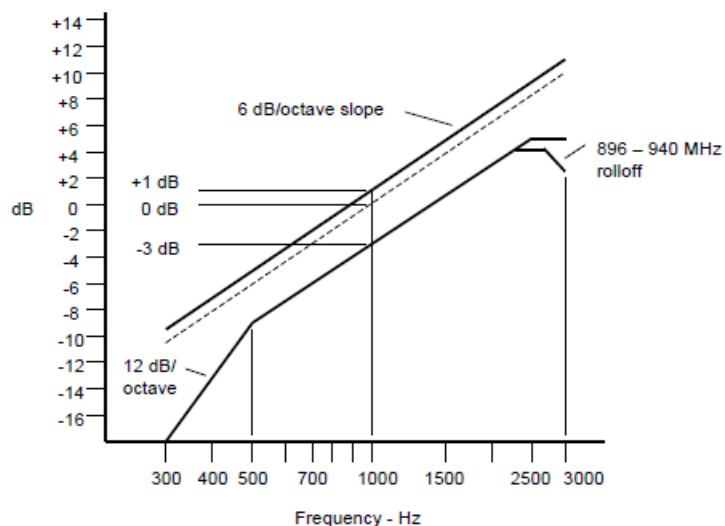
6.3.2. Test Result



Not for FCC review



6.3.3. Test Limit

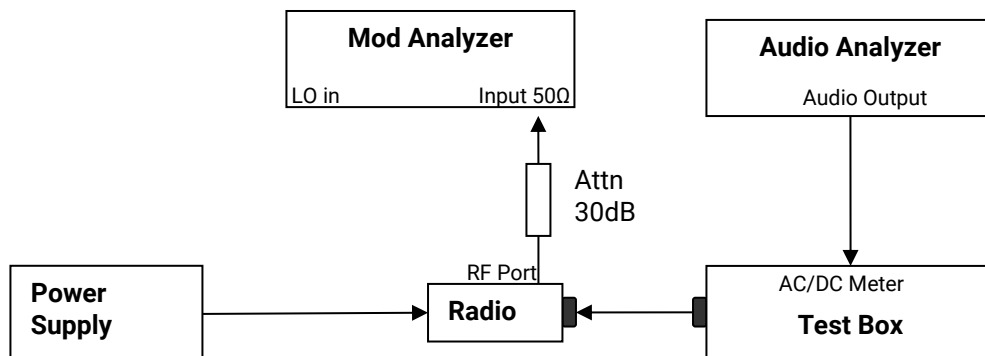


Note:

- 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.

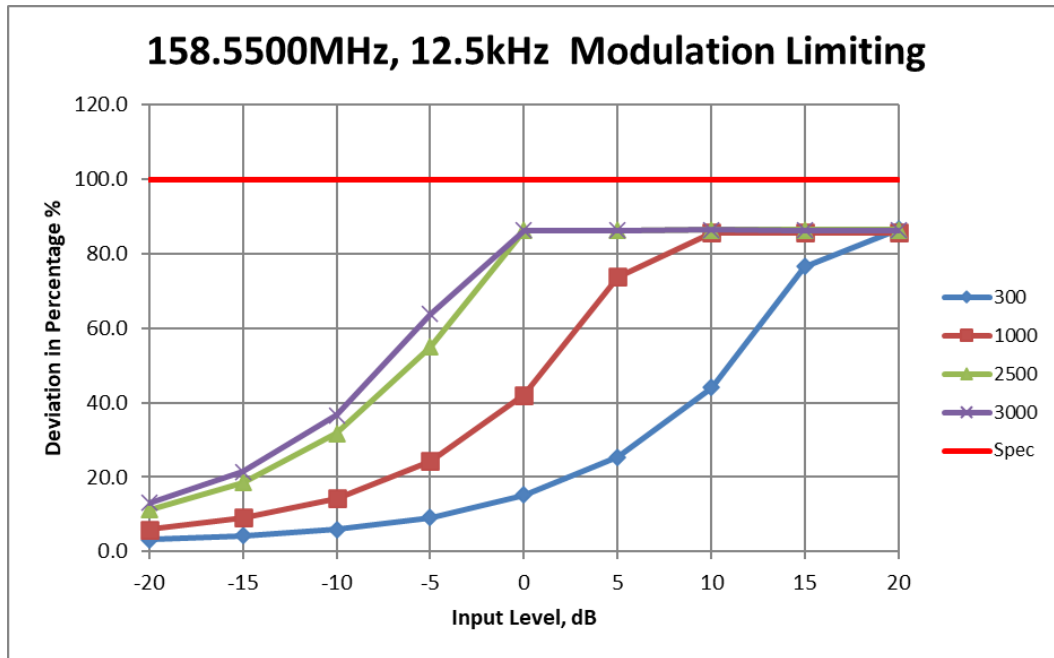
6.4. Modulation Limiting

6.4.1. Test Setup

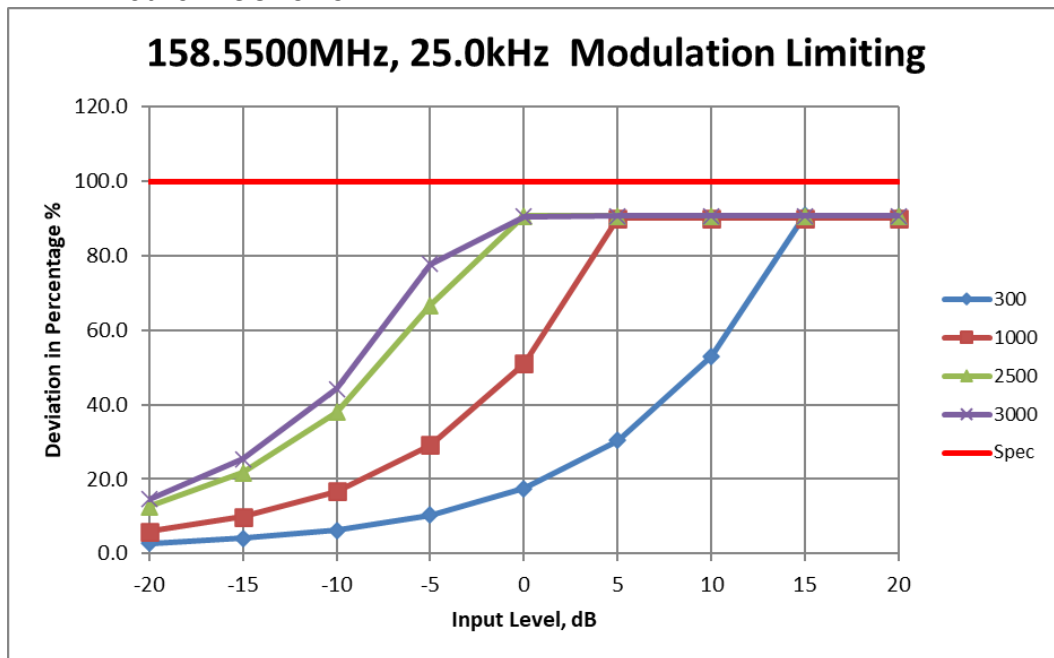


- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Path loss for the measurement included.
- 3) Set the audio bandwidth filter to 15 kHz.
- 4) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 60% of the Full rated system deviation.
- 5) Record the 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



Not for FCC review

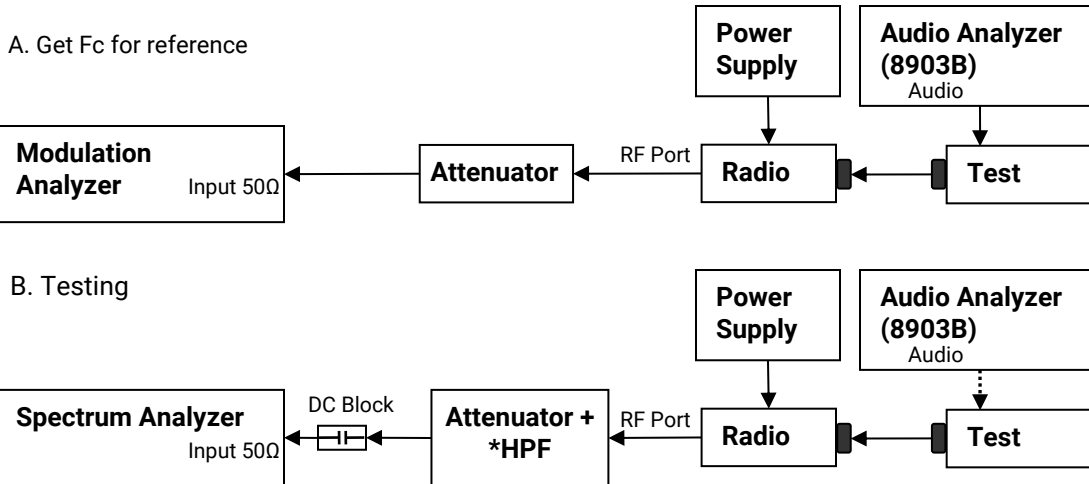


6.4.3. Test Limit

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 (RBW is 240Hz, within 1 ~ 5 % of emission designator).
- 7) Transmit the DUT and record the occupied Bandwidth frequency.
- 8) Preset the spectrum analyzer for sideband spectrum measurement.
- 9) Set the span and Resolution Bandwidth (according to FCC/ ISED standard).
- 10) Save the screen shot as modulated signal
- 11) Remove the audio tone from audio analyzer to capture unmodulated signal.

* Only HPF added for Mask 80.211 measurement with attenuator.

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

6.5.2. Test Result (Analog)

Standard Audio Modulation (25 kHz Channelization, Analog Voice):

Emission Designator 16K0F3E

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

$BW = 2(M+D) = 2*(3 \text{ kHz} + 5 \text{ kHz}) = 16 \text{ kHz} = 16K0F3E$ portion of the designator indicates voice.

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

Standard Audio Modulation (12.5 kHz Channelization, Analog Voice):

Emission Designator 11K0F3E

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

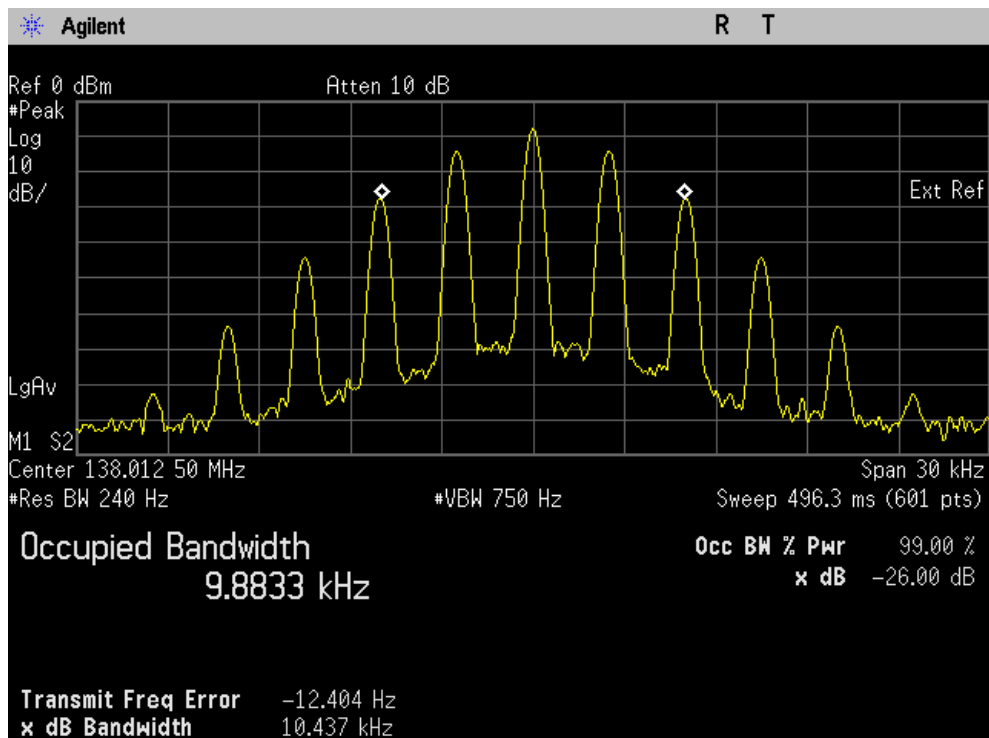
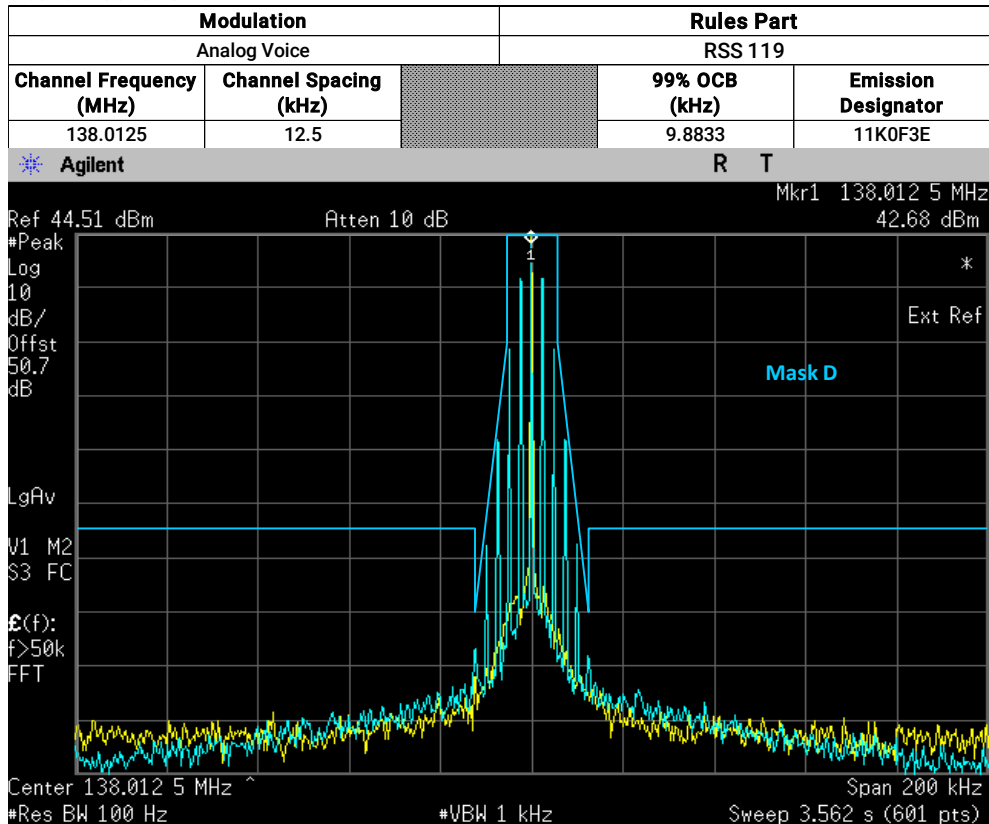
$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} = 11K0F3E$ portion of the designator indicates voice.

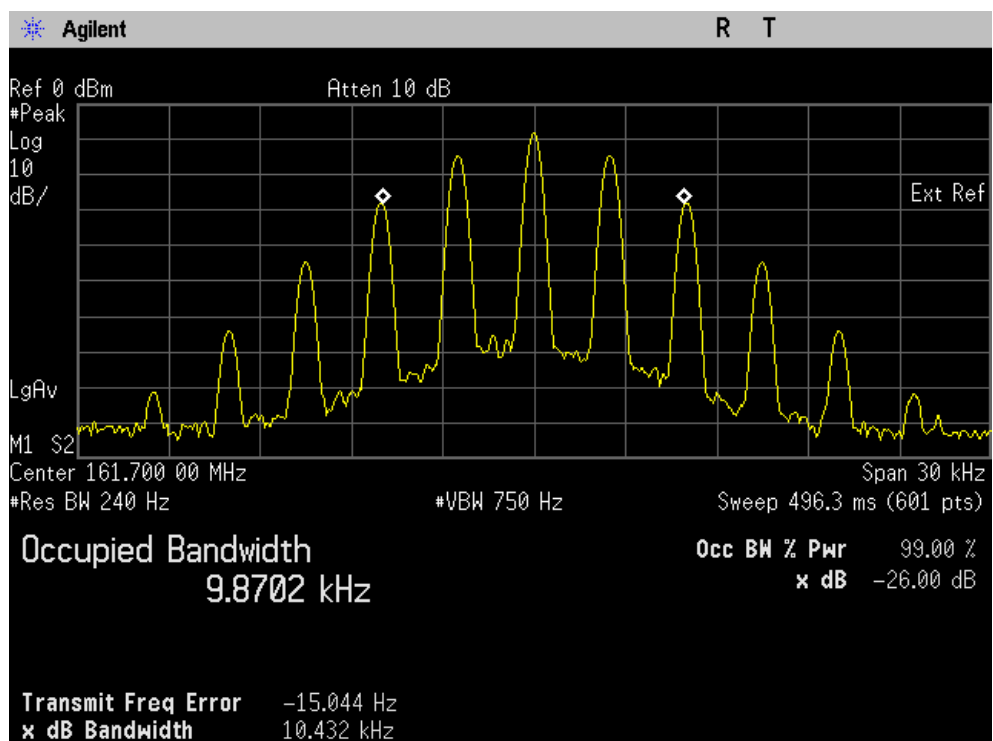
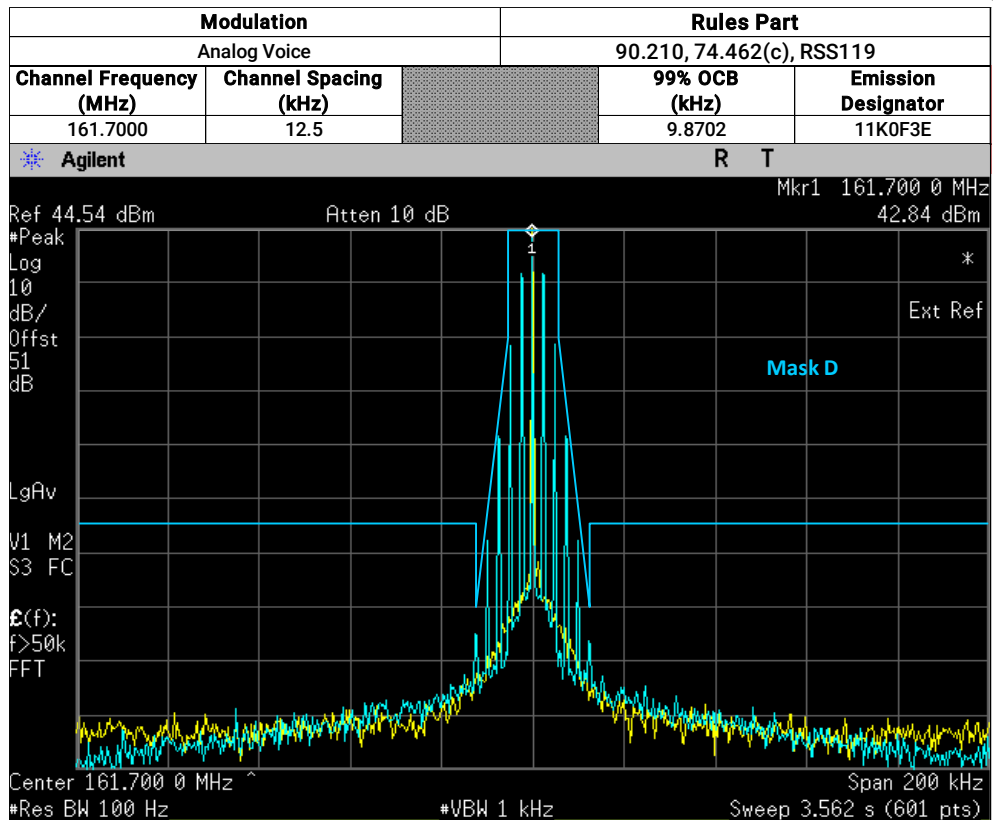
Therefore, the entire designator for 12.5 kHz channelization analog voice is 11K0F3E.

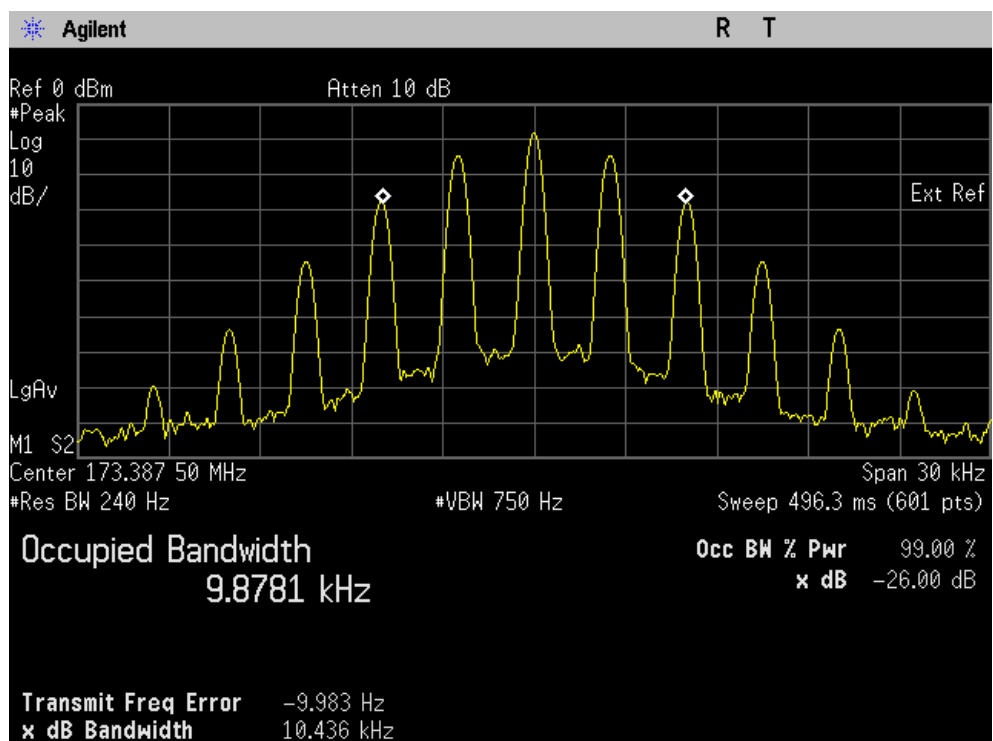
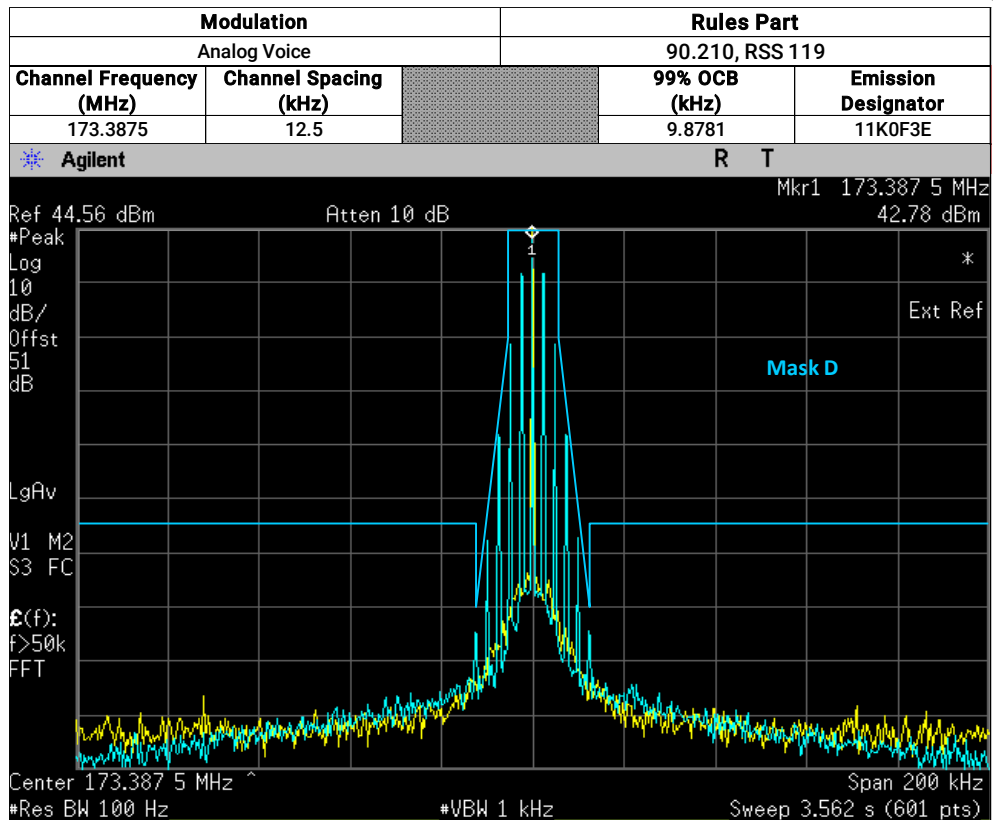
Justification for only testing at high power:

The occupied bandwidth of a signal is largely determined by the device's Power Amplifier (PA). As a transmitter's power approaches its maximum limit (the compression point), the PA operates in its most non-linear region. Non-linearity in the PA creates intermodulation products and spectral regrowth (spatter). This results in a less clean transmitted signal spectrum. Therefore, the scenario has a higher probability to violate regulatory limits and cause interference will occur when the device is operating at its maximum rated output power. Testing at lower power levels would not demonstrate the true worst-case spectral performance.

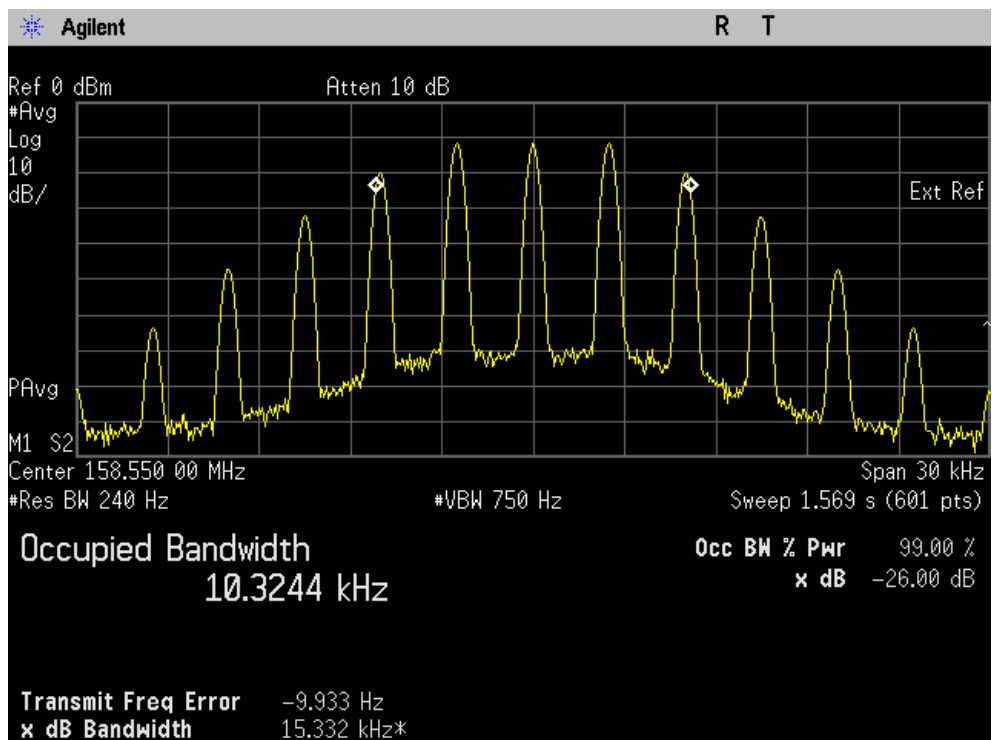
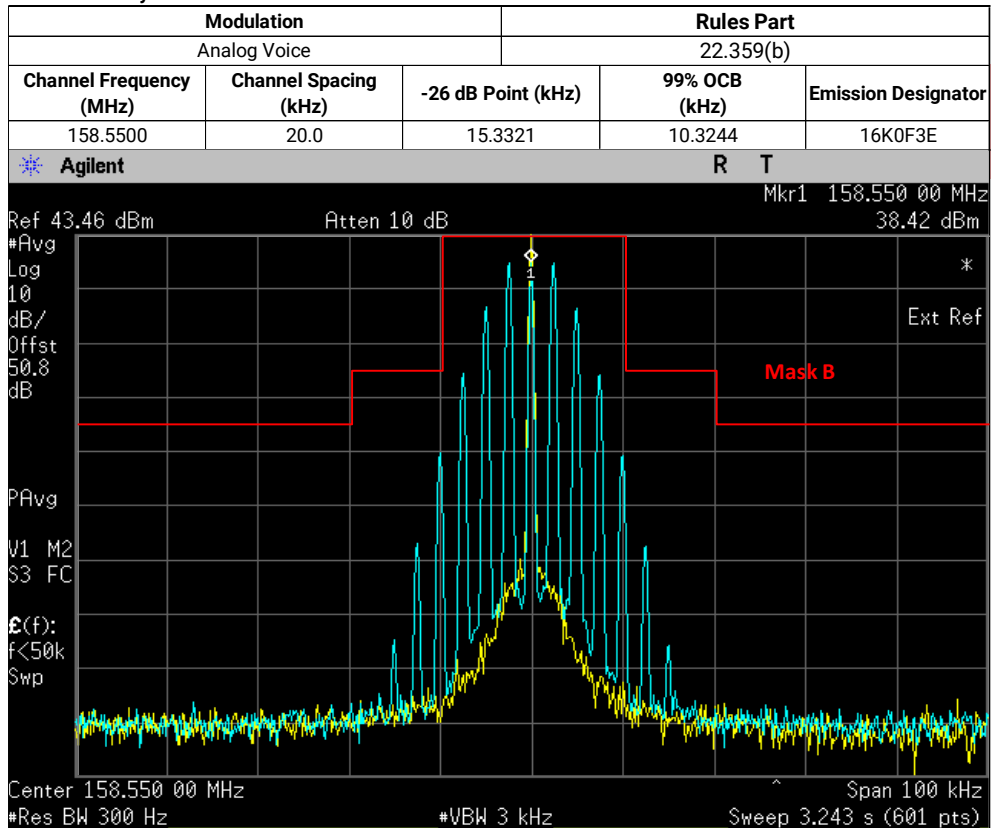
Not For FCC review



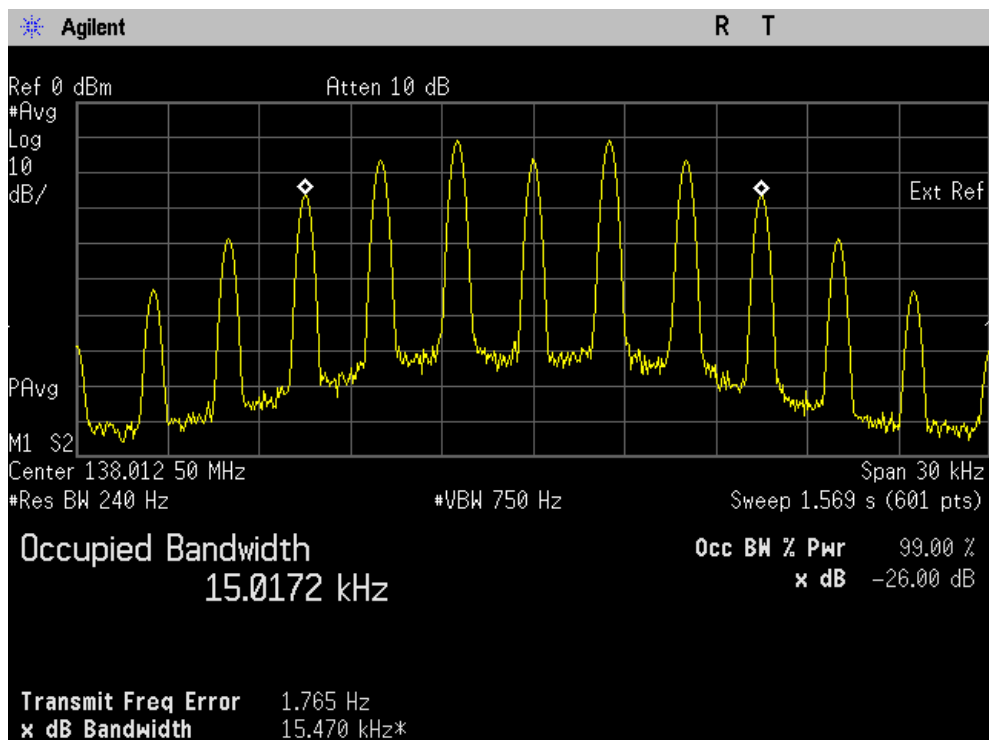
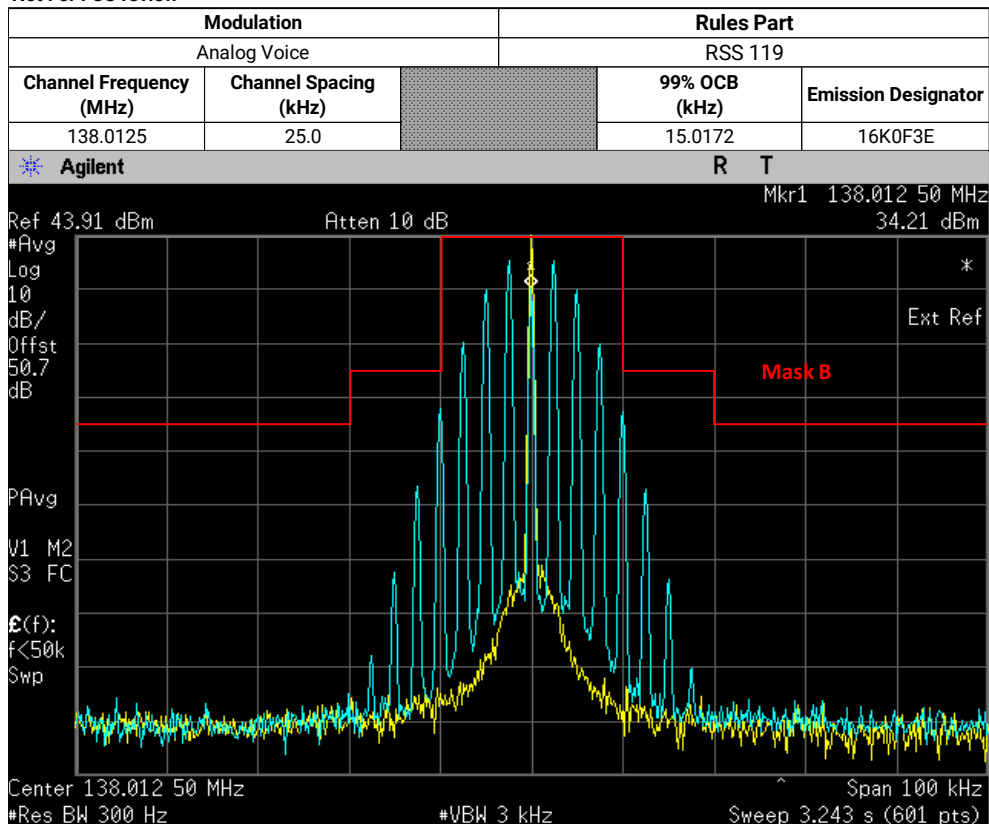




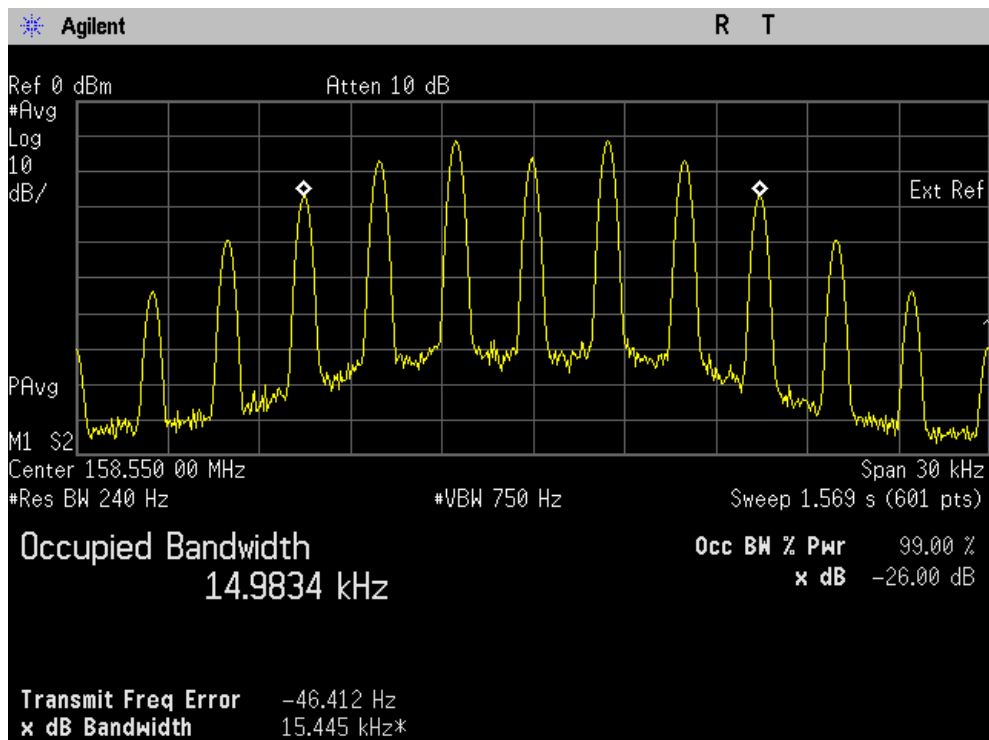
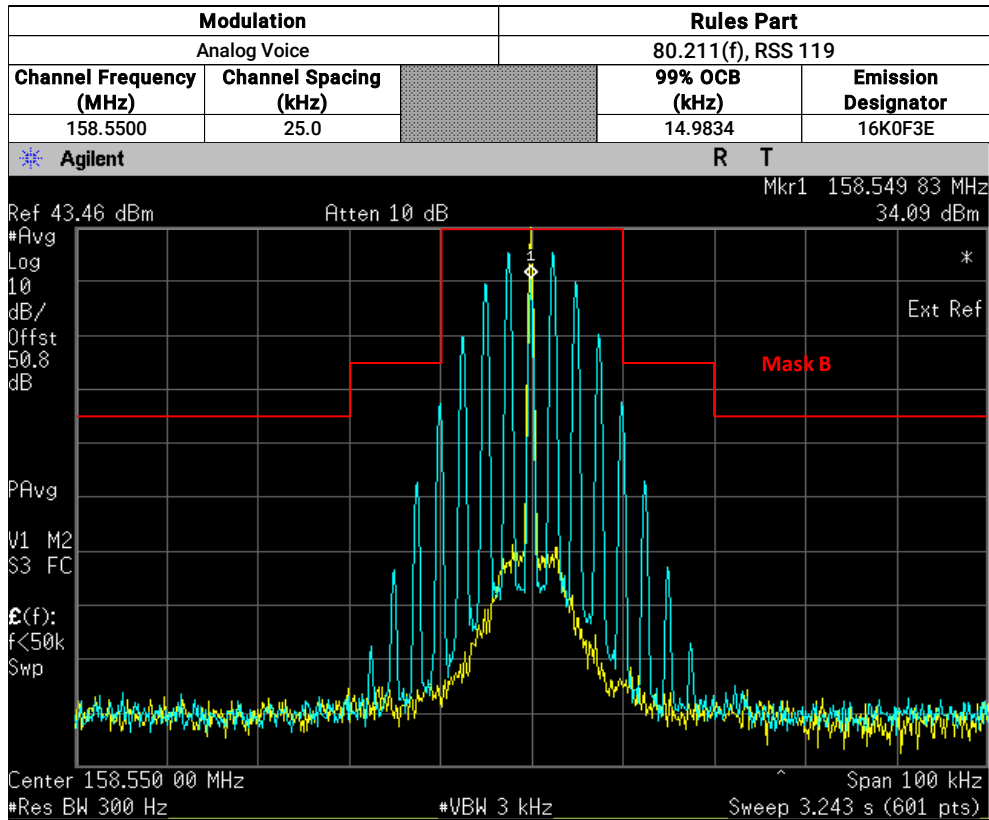
For Part 22 only



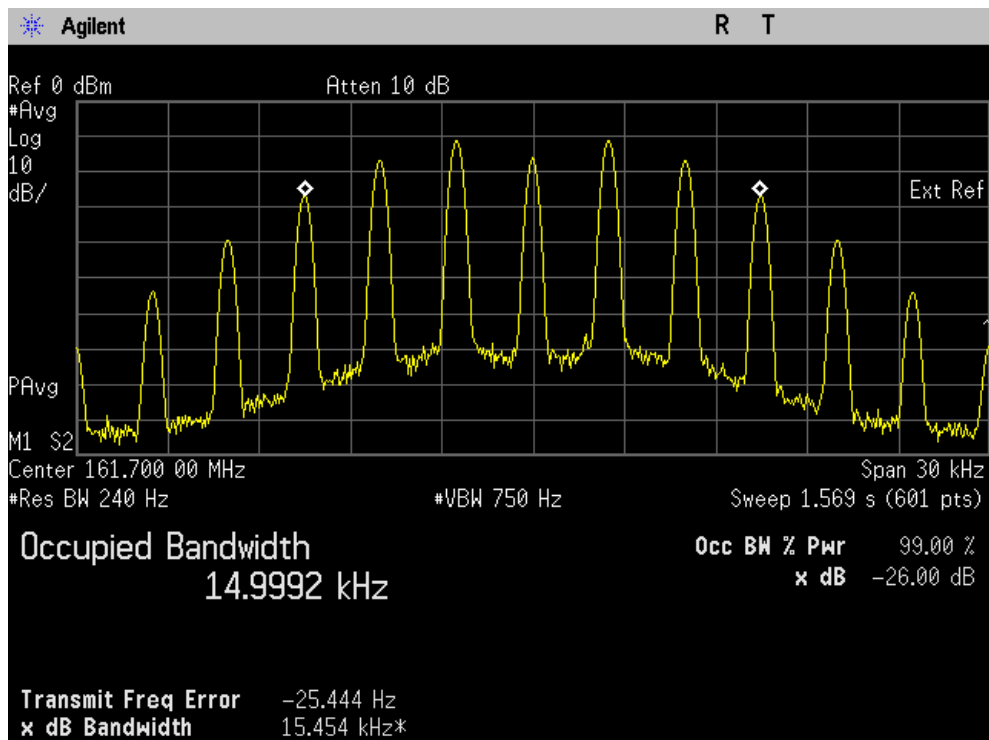
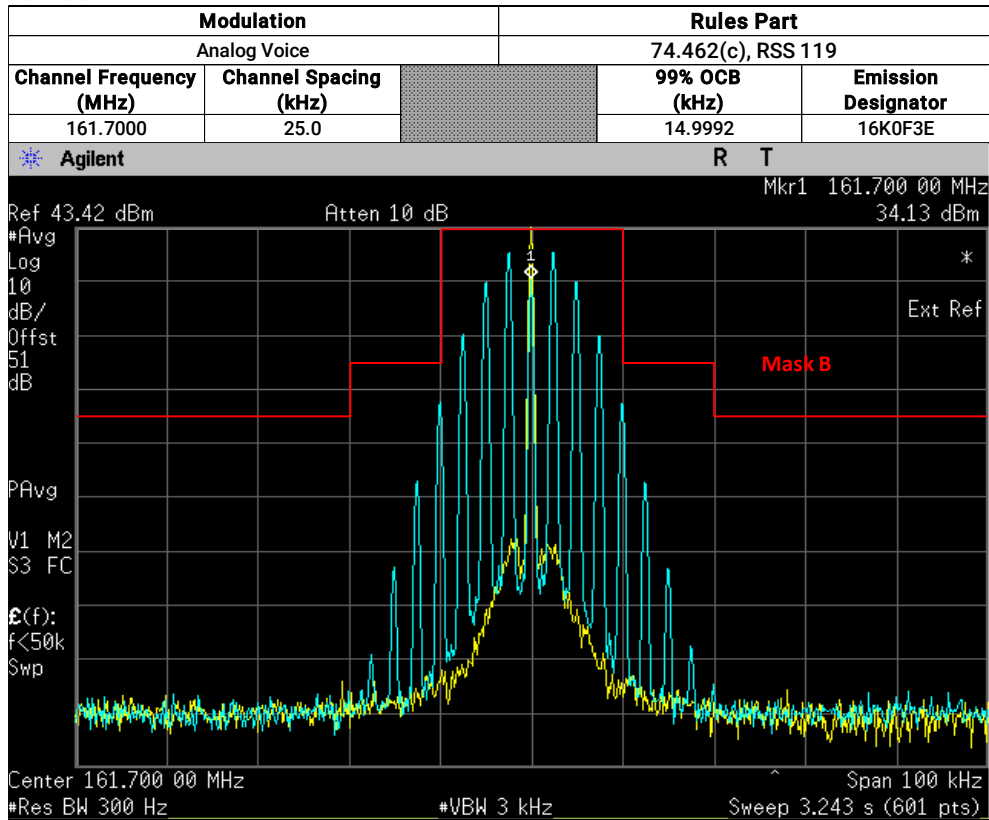
Not For FCC review



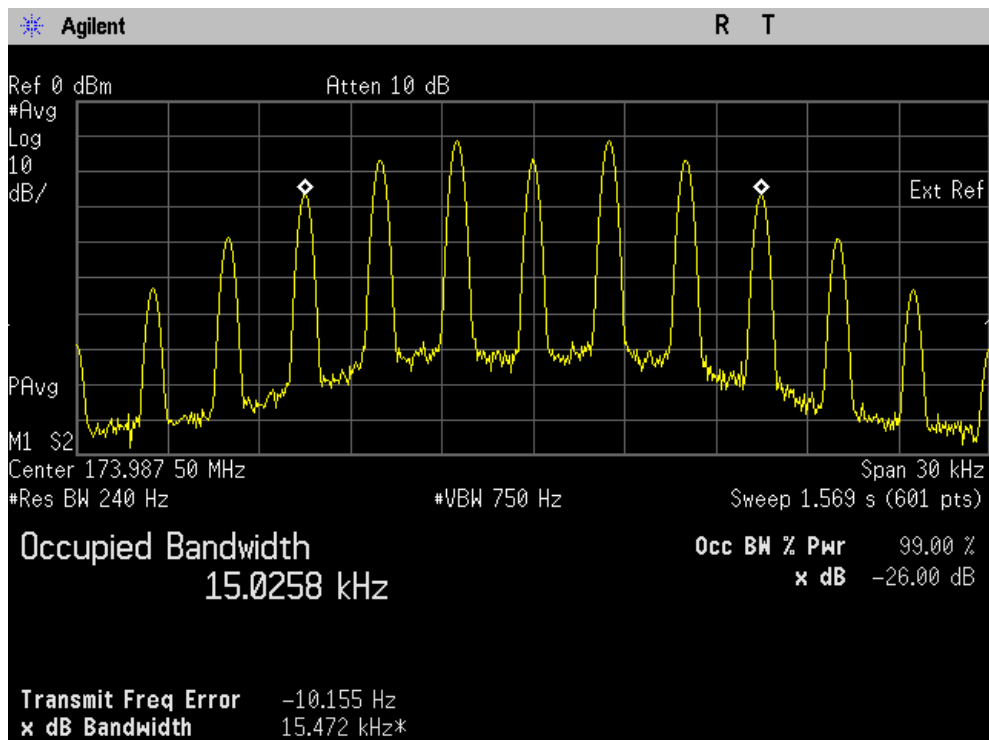
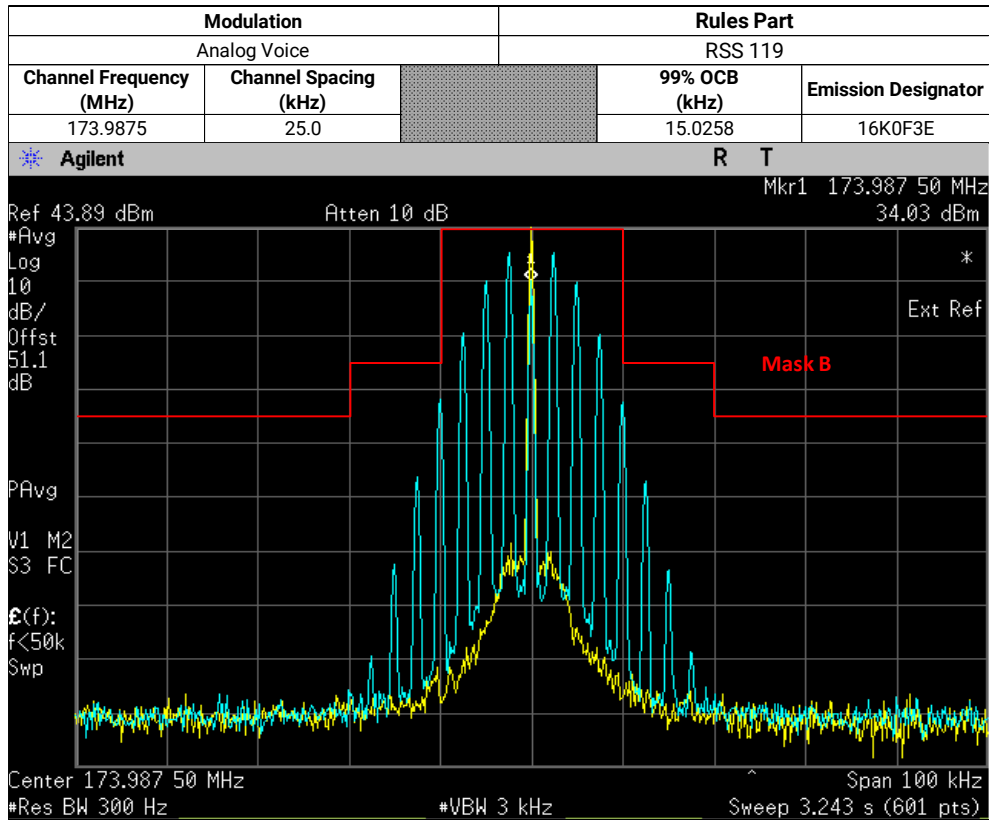
For Part 80



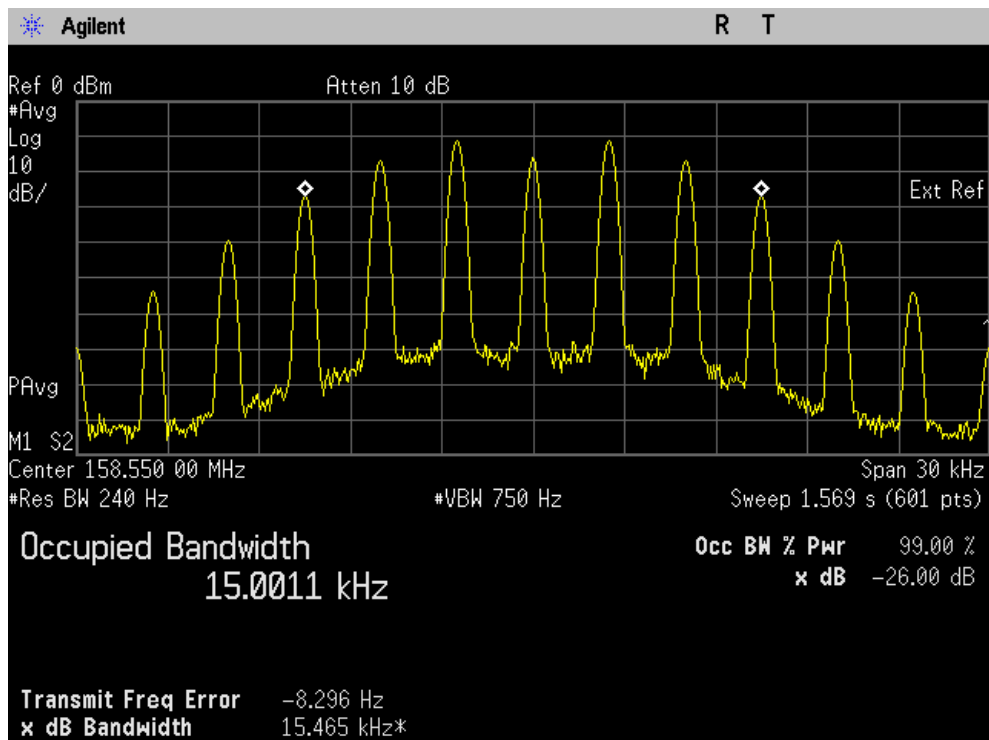
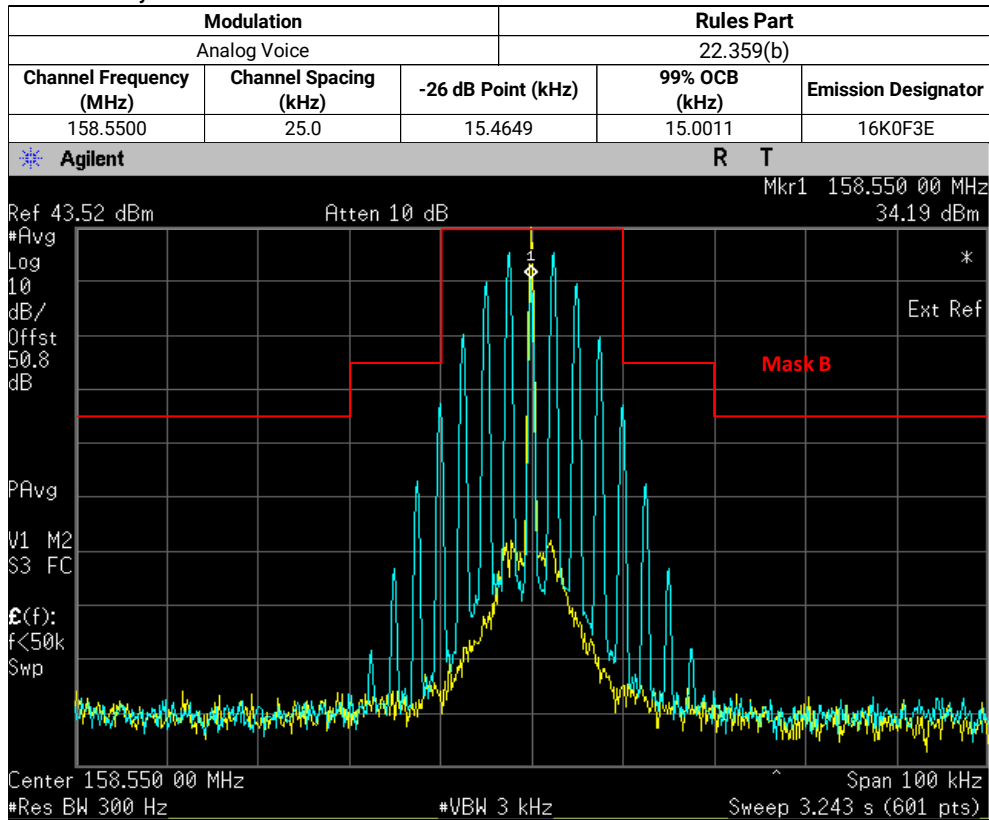
For Part 74



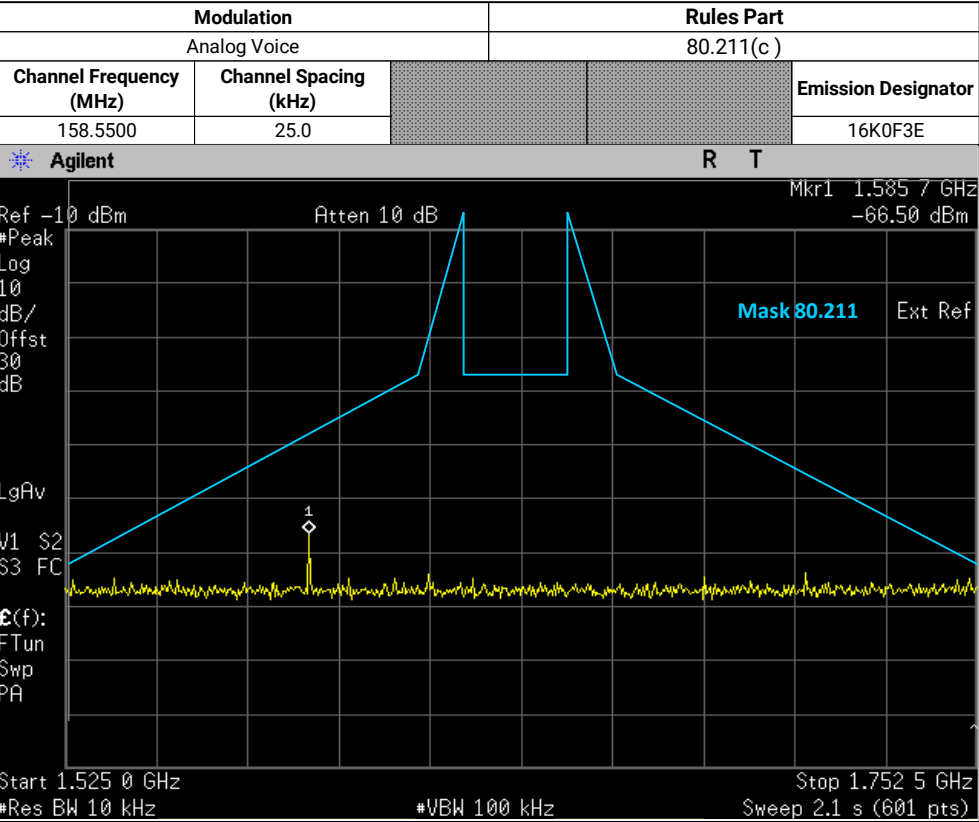
Not For FCC review



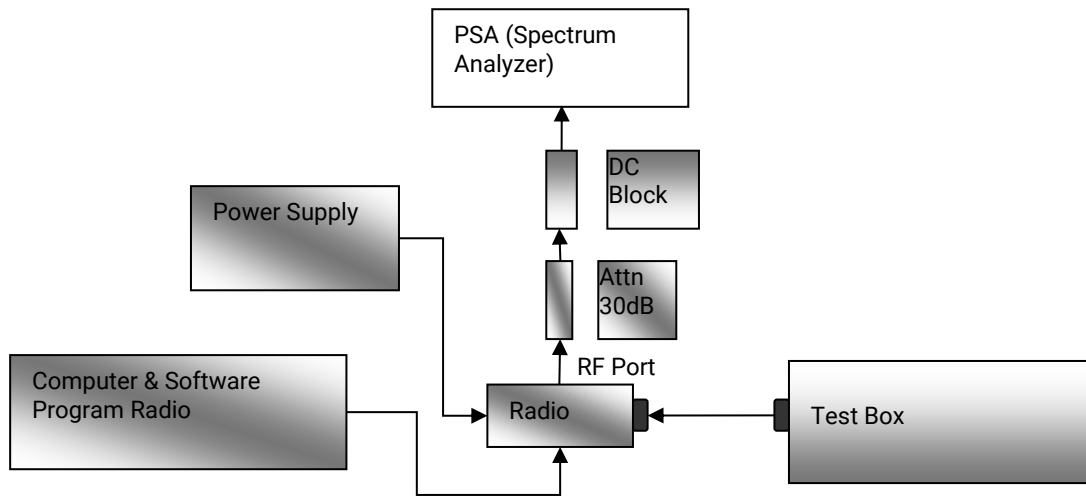
For Part 22 only



For Part 80 only (Maritime)



6.5.3. Test Setup (Digital)



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

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

***Note:**

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

6.5.4. Test Result (Digital)

Digital (12.5 kHz Channelization, Digital Voice/Data/Voice+Data):
Emission Designator 7K60F1E/D/W

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

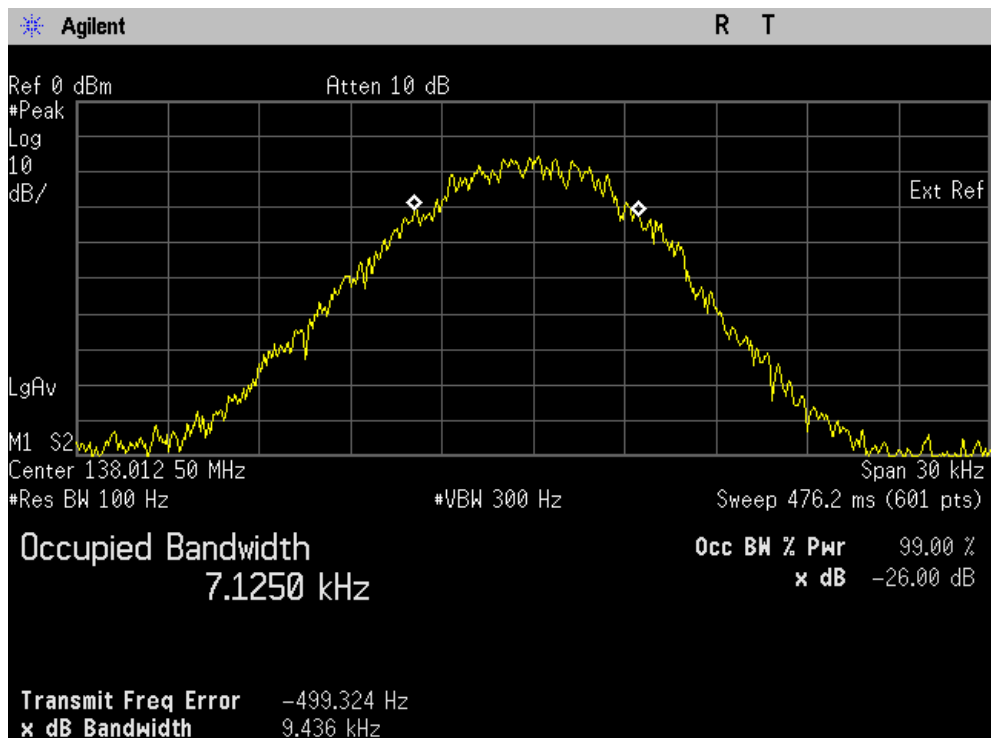
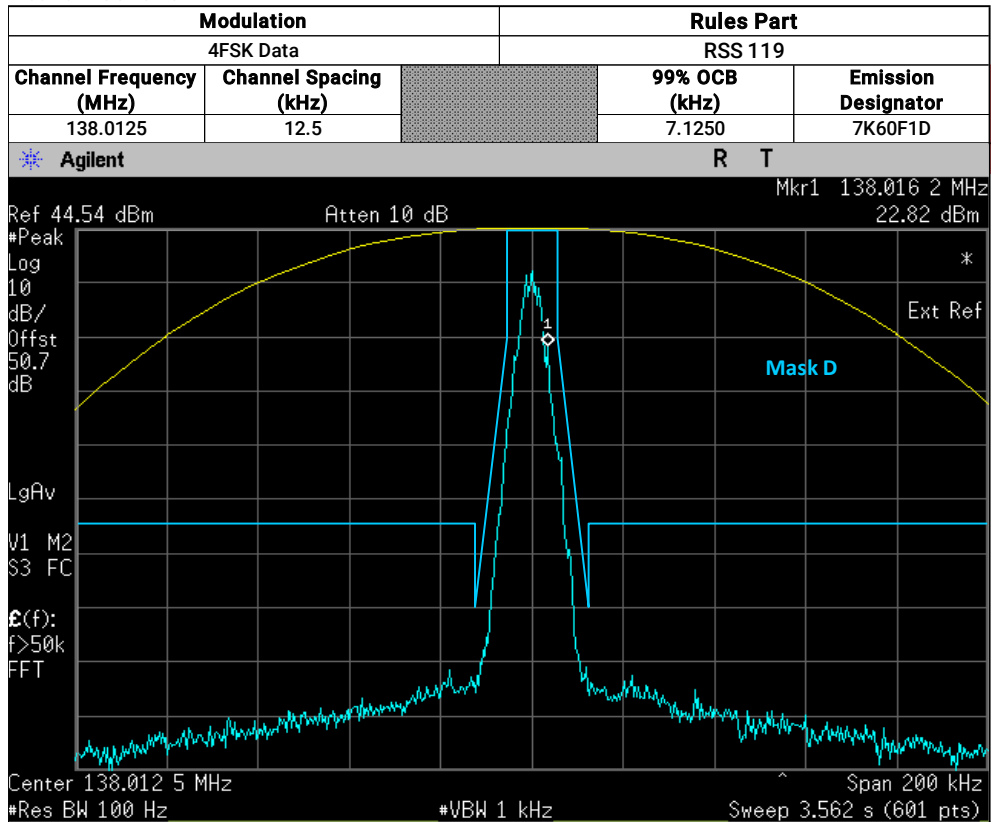
F1E/D/W portion of the designator indicates digital voice/data/voice+data.

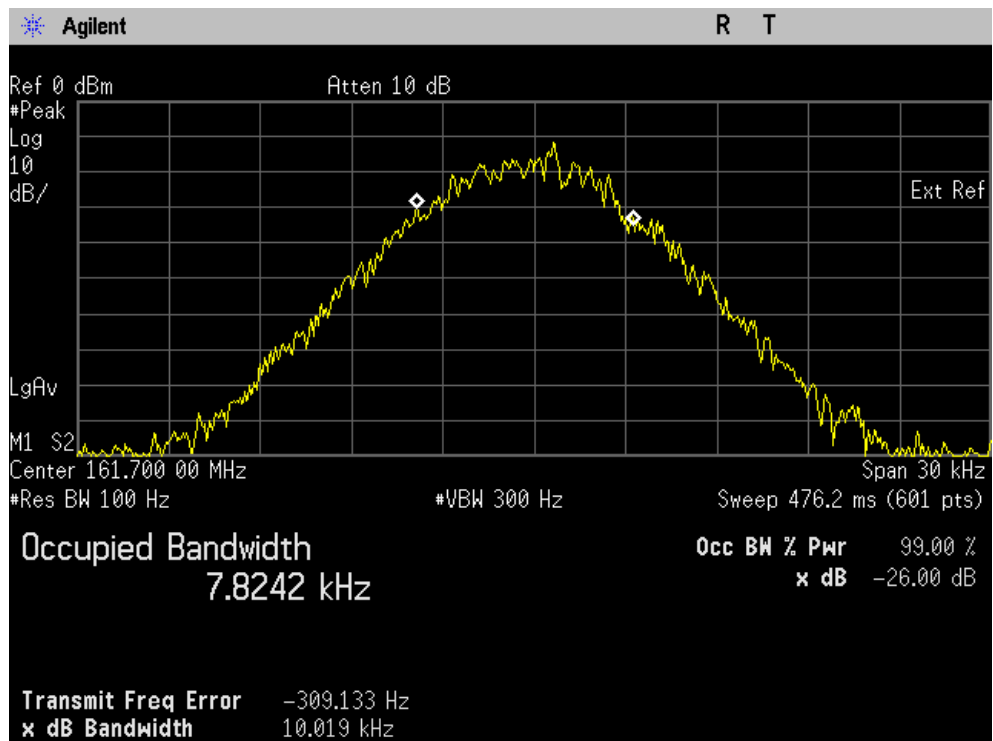
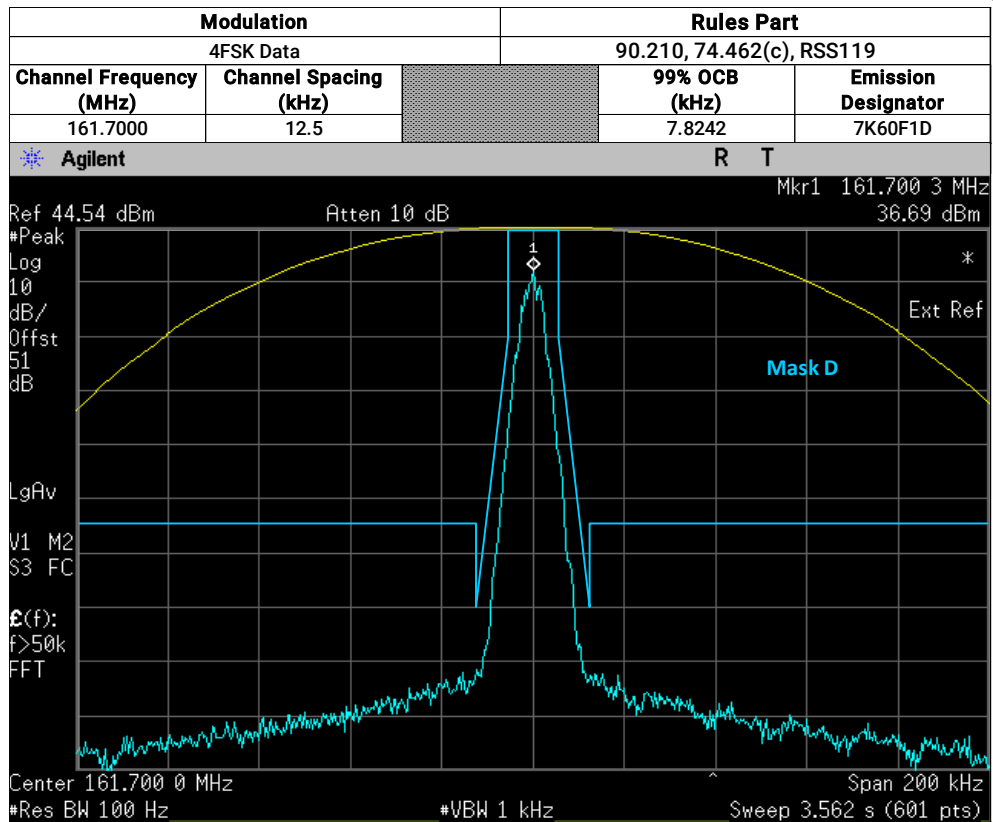
Therefore, the entire designator for 12.5 kHz channelization digital voice is 7K60F1E/D/W.

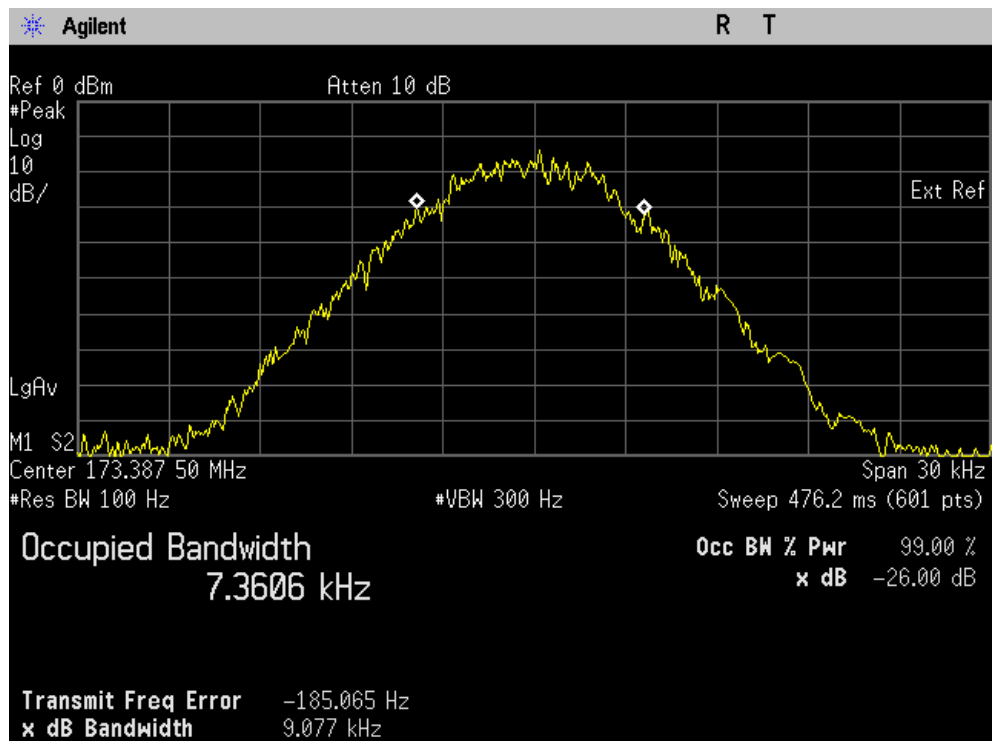
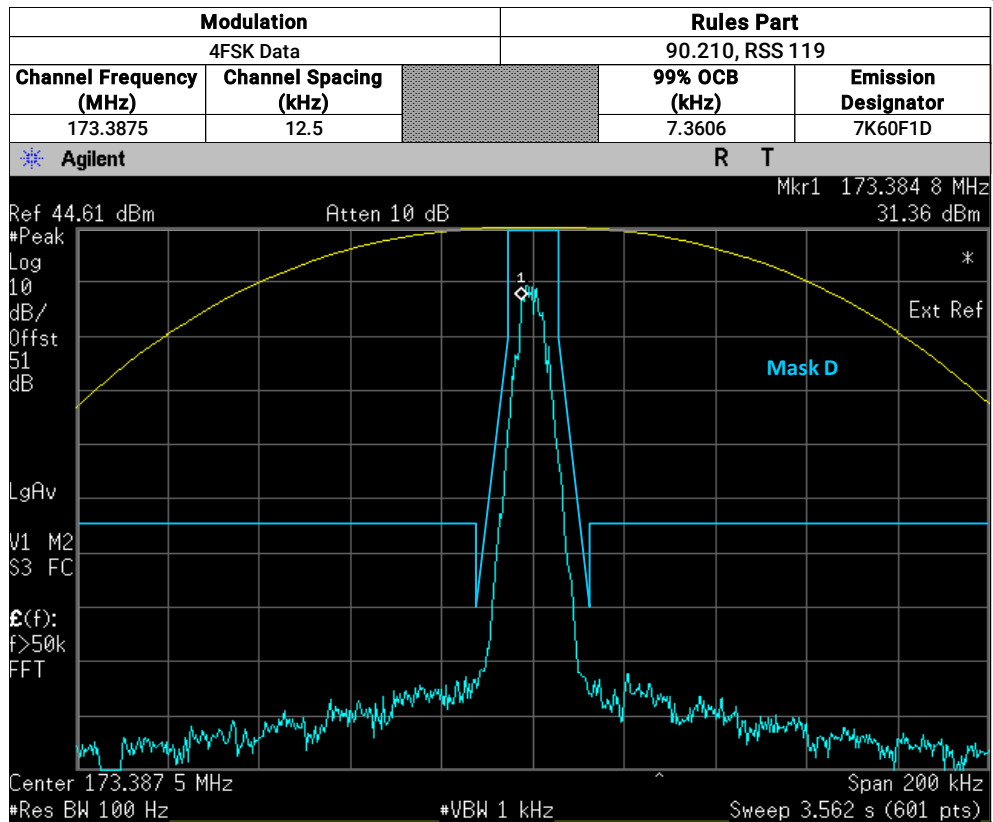
Justification for only testing at high power:

The occupied bandwidth of a signal is largely determined by the device's Power Amplifier (PA). As a transmitter's power approaches its maximum limit (the compression point), the PA operates in its most non-linear region. Non-linearity in the PA creates intermodulation products and spectral regrowth (spatter). This results in a less clean transmitted signal spectrum. Therefore, the scenario has a higher probability to violate regulatory limits and cause interference will occur when the device is operating at its maximum rated output power. Testing at lower power levels would not demonstrate the true worst-case spectral performance.

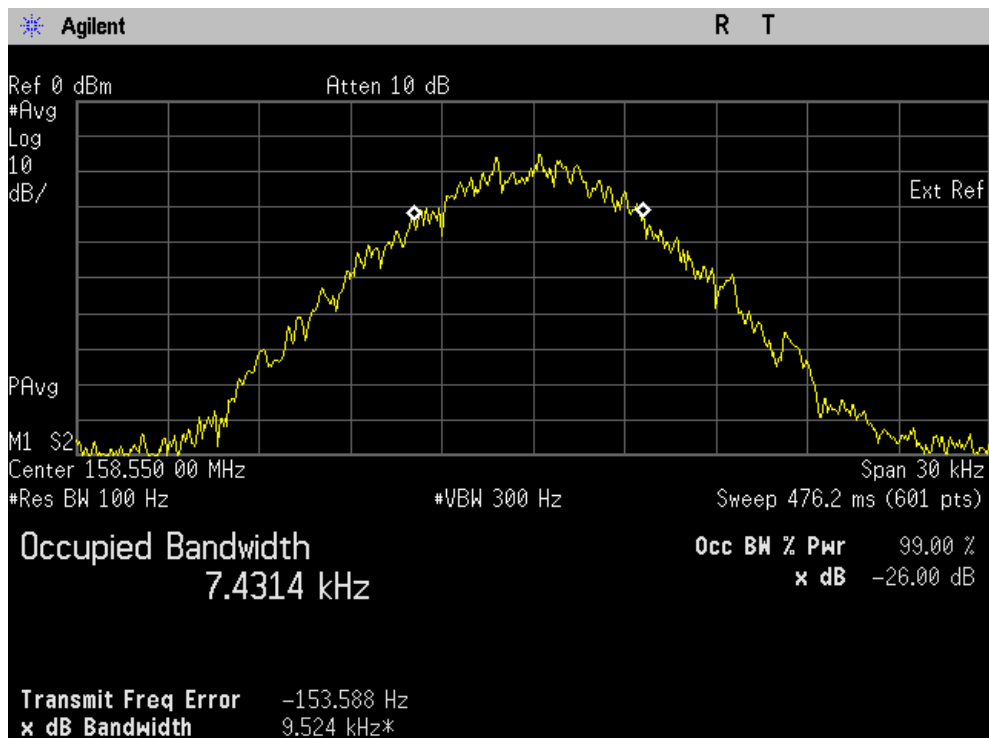
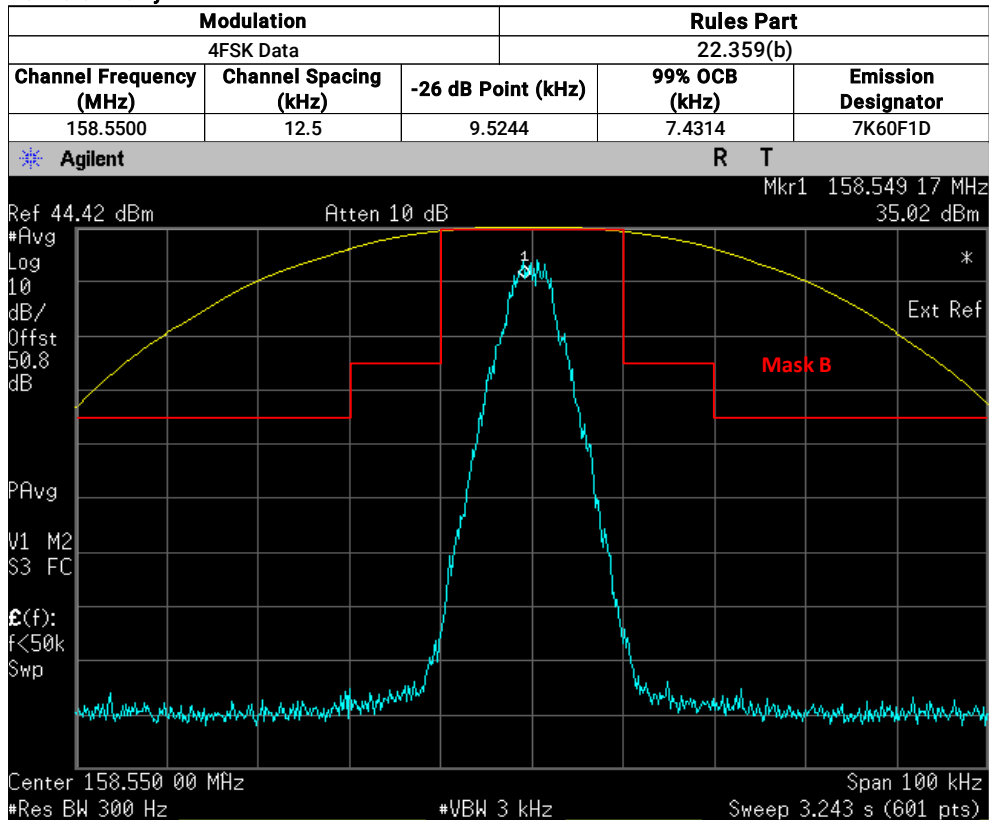
Not For FCC review



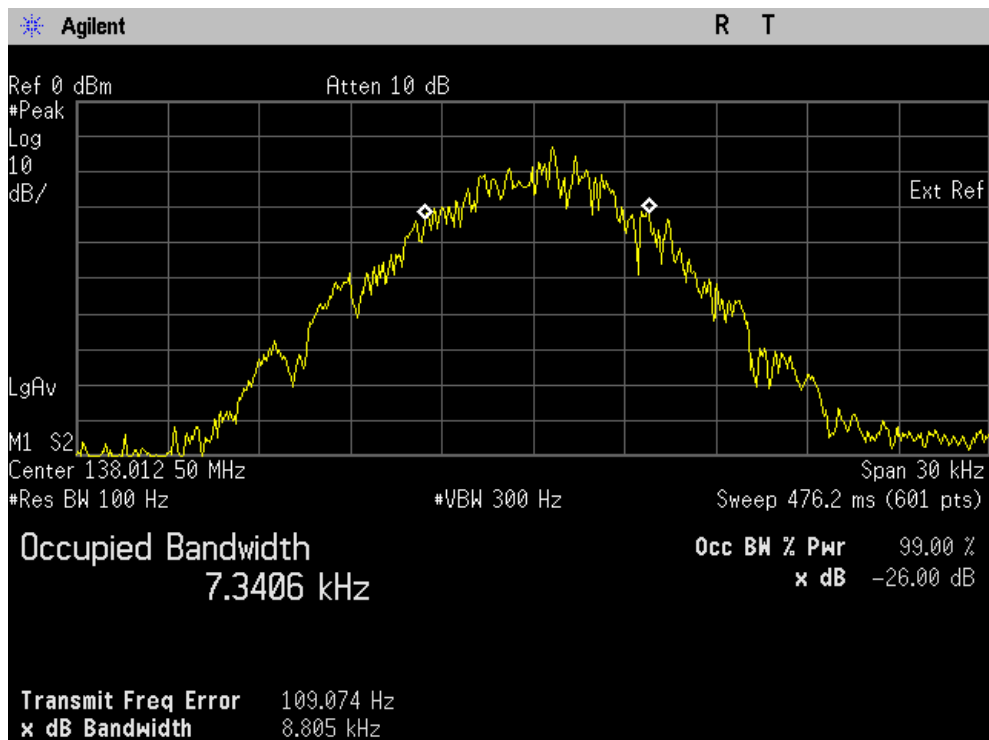
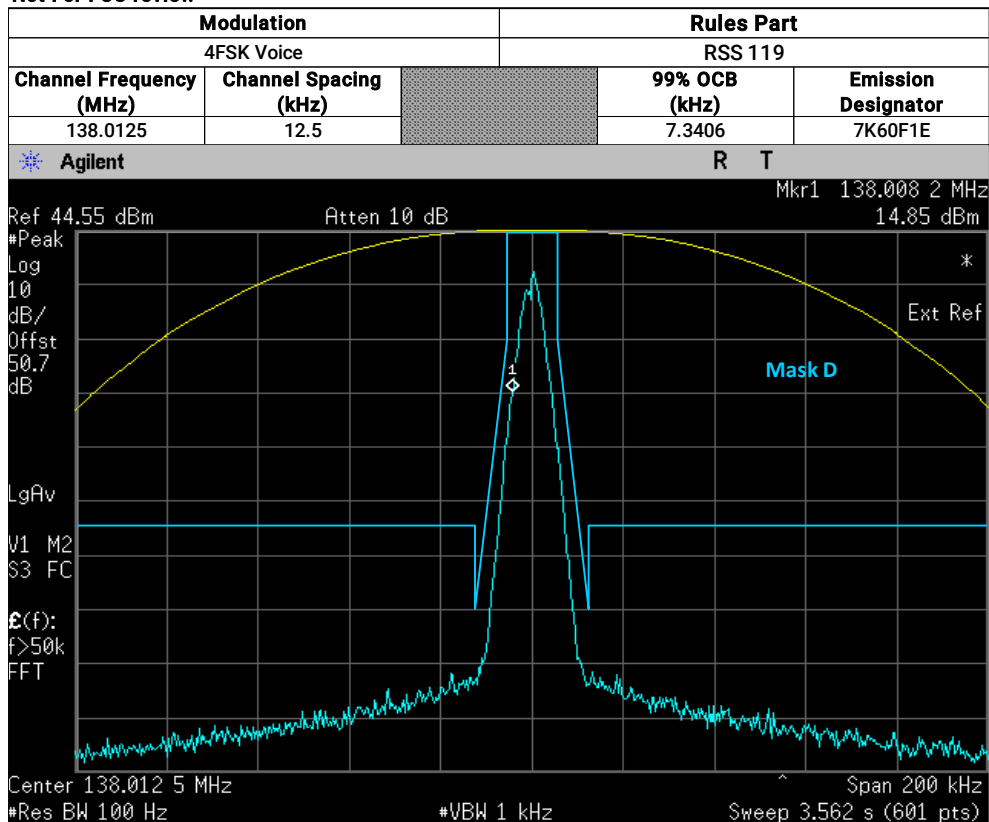


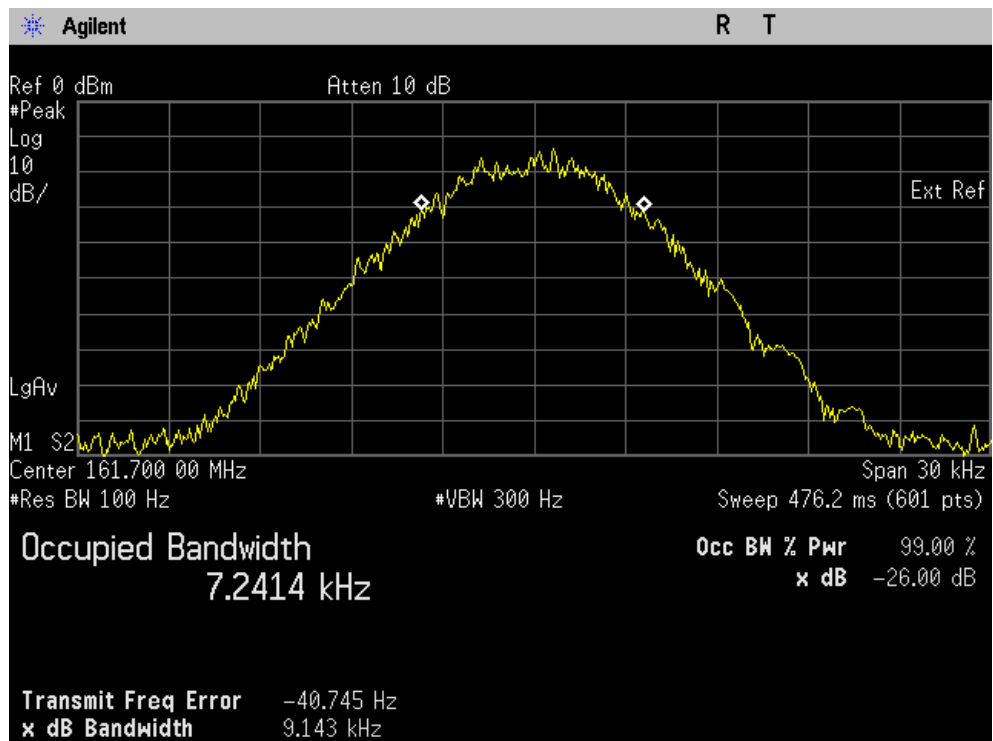
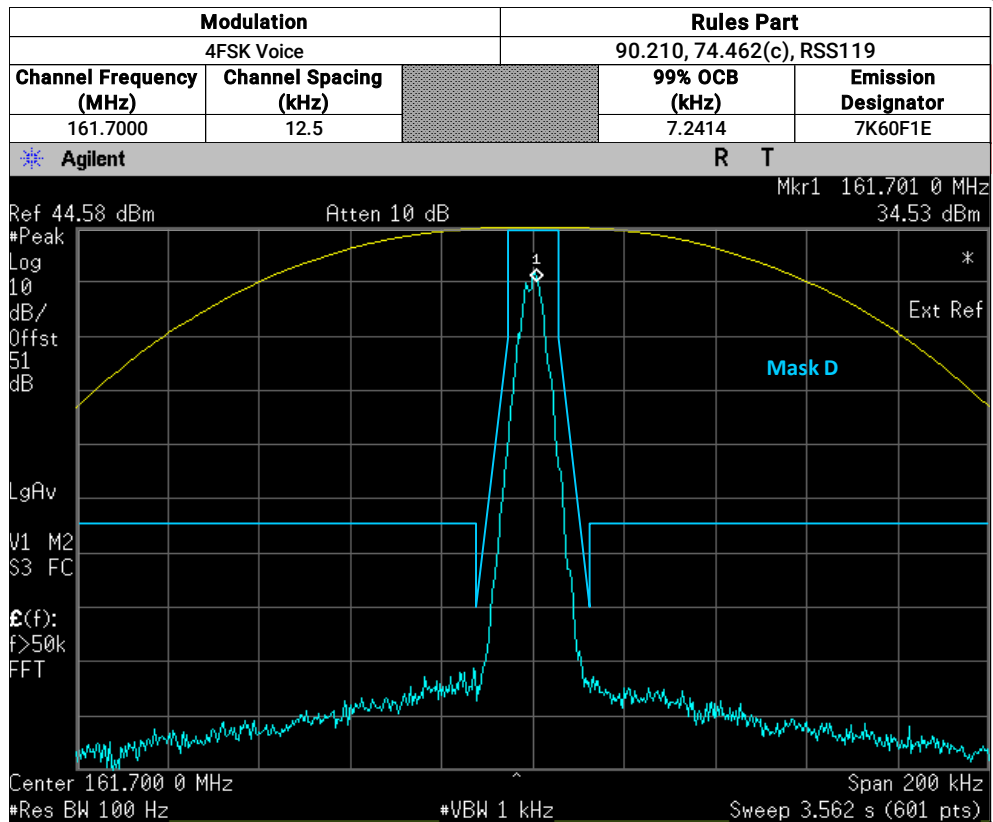


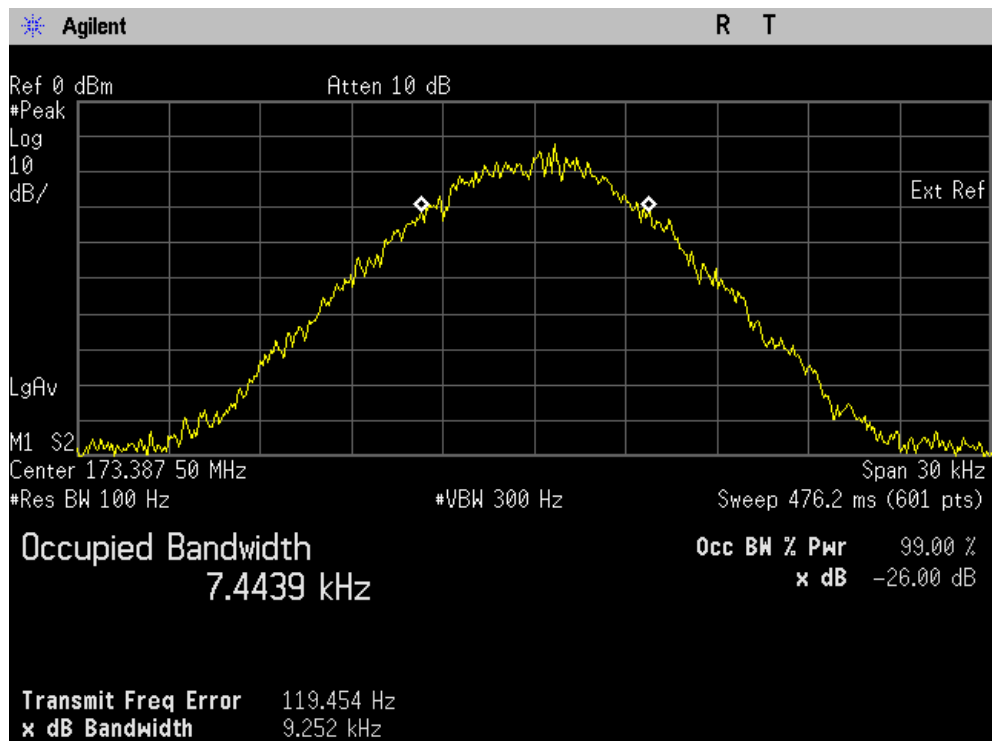
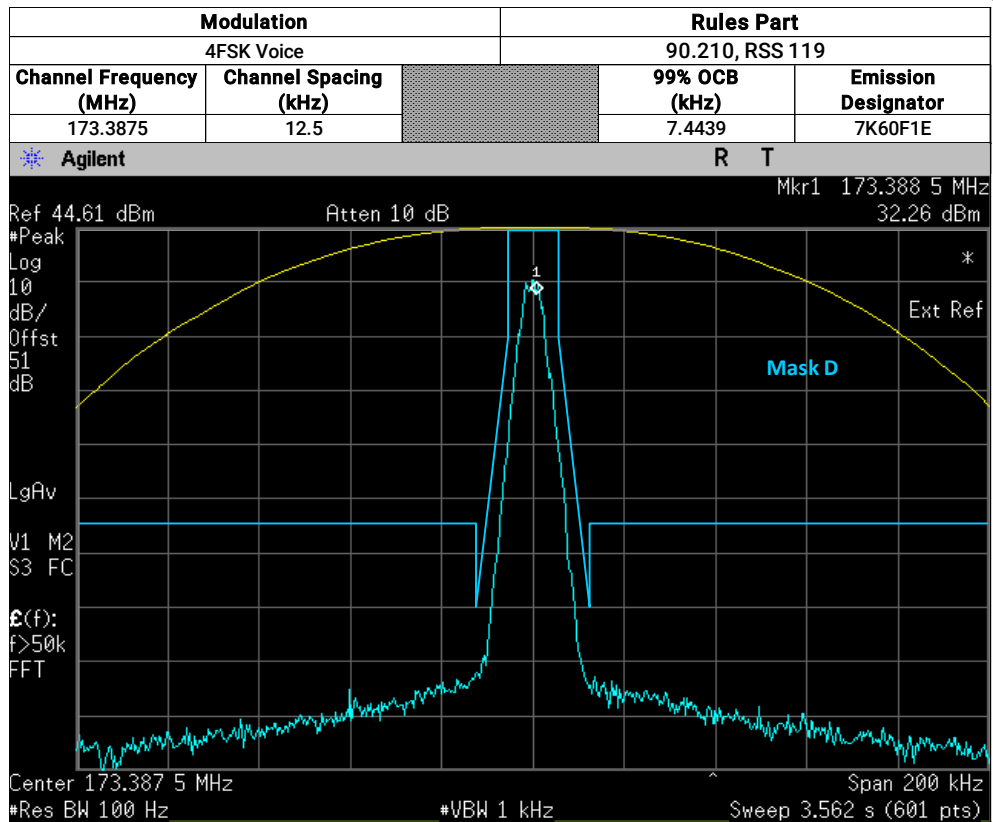
For Part 22 only



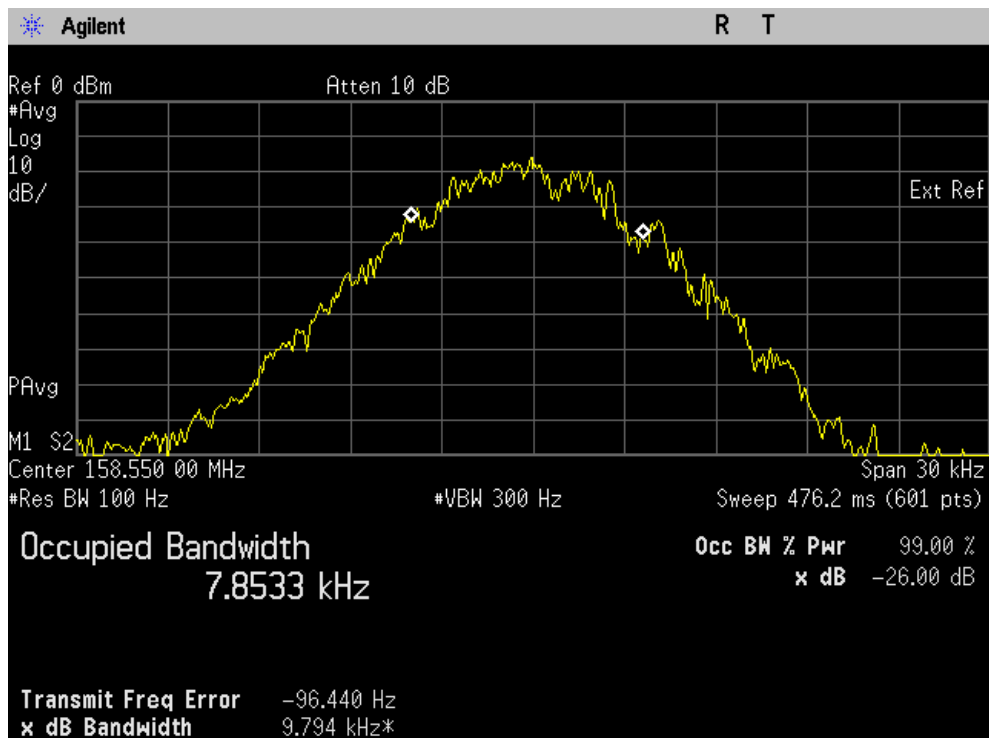
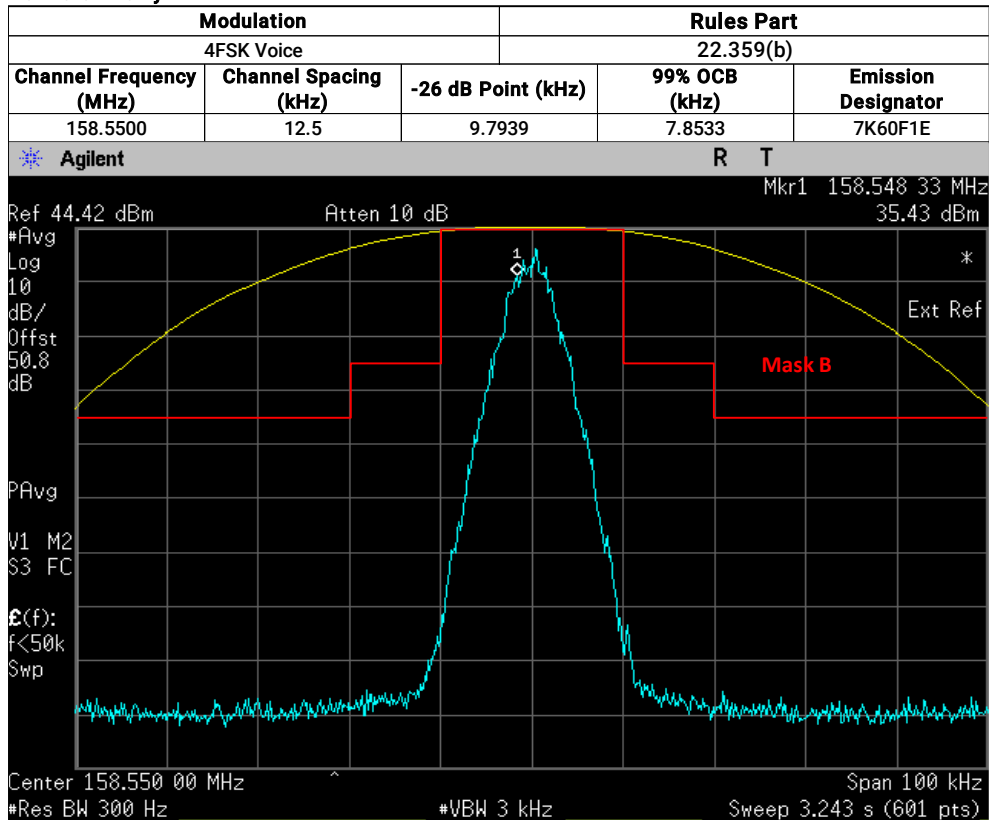
Not For FCC review



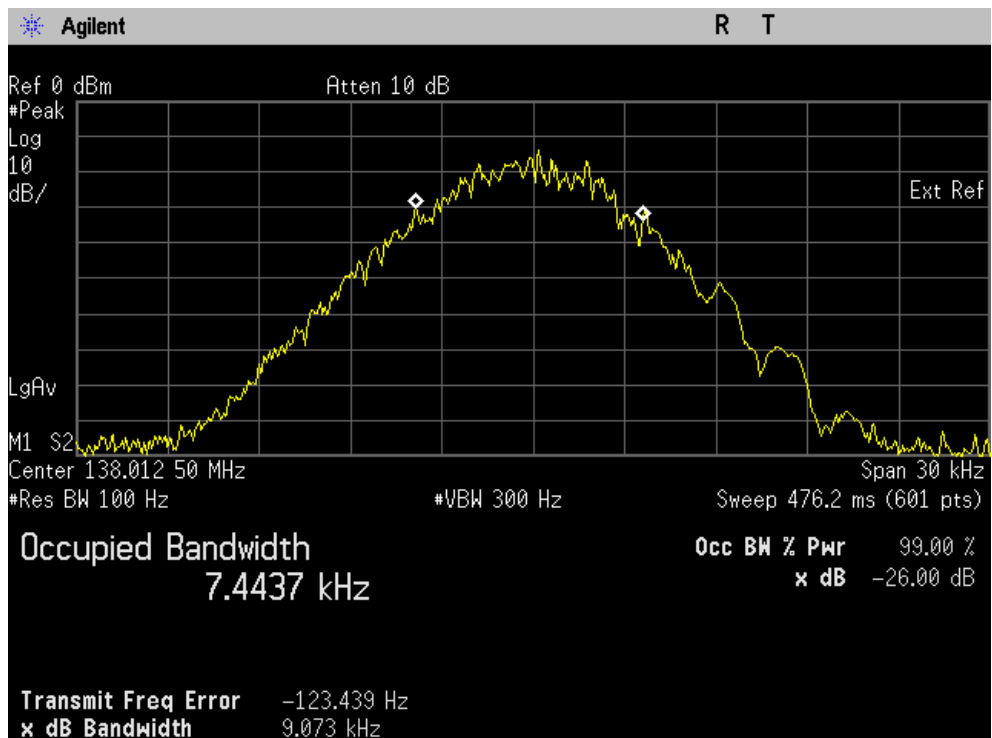
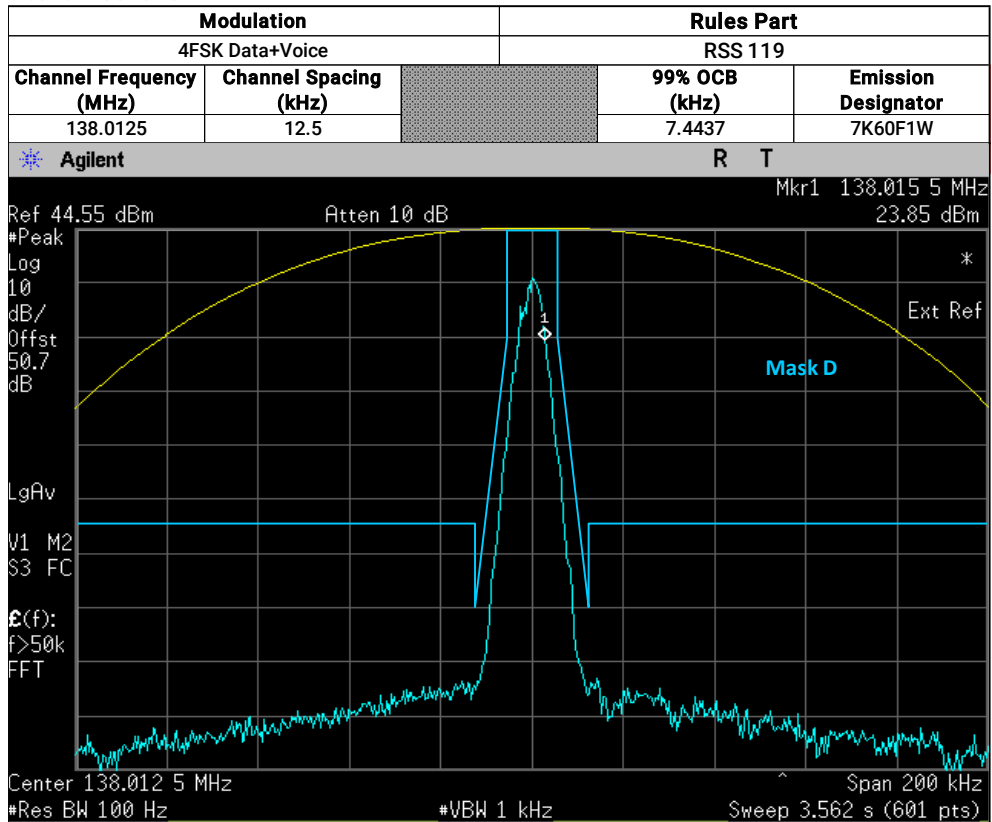


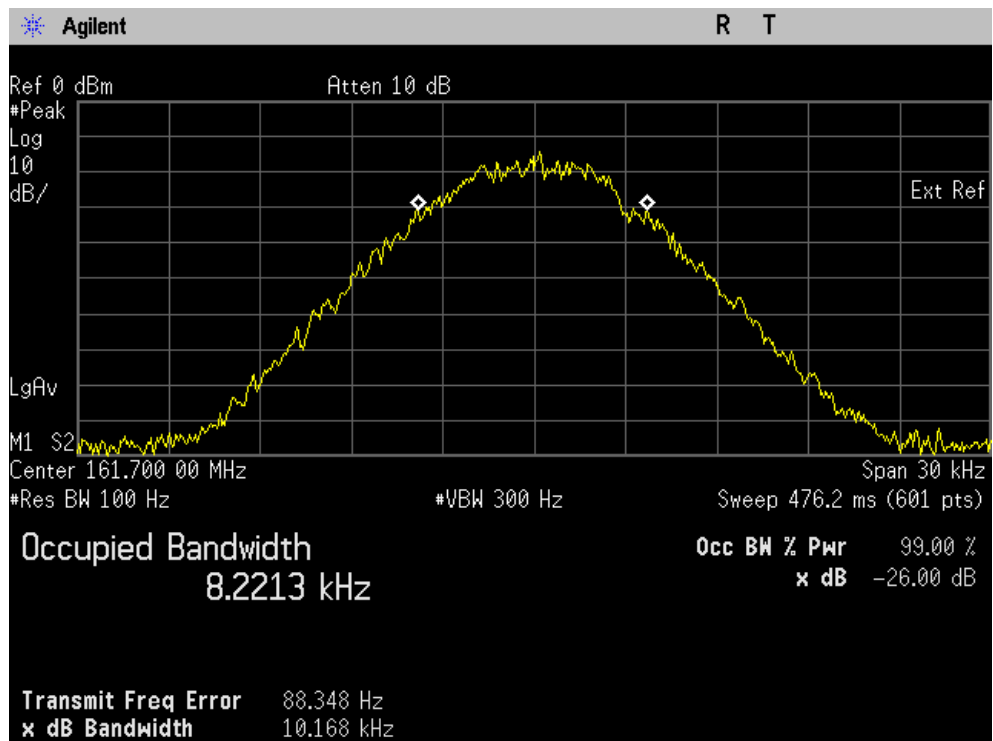
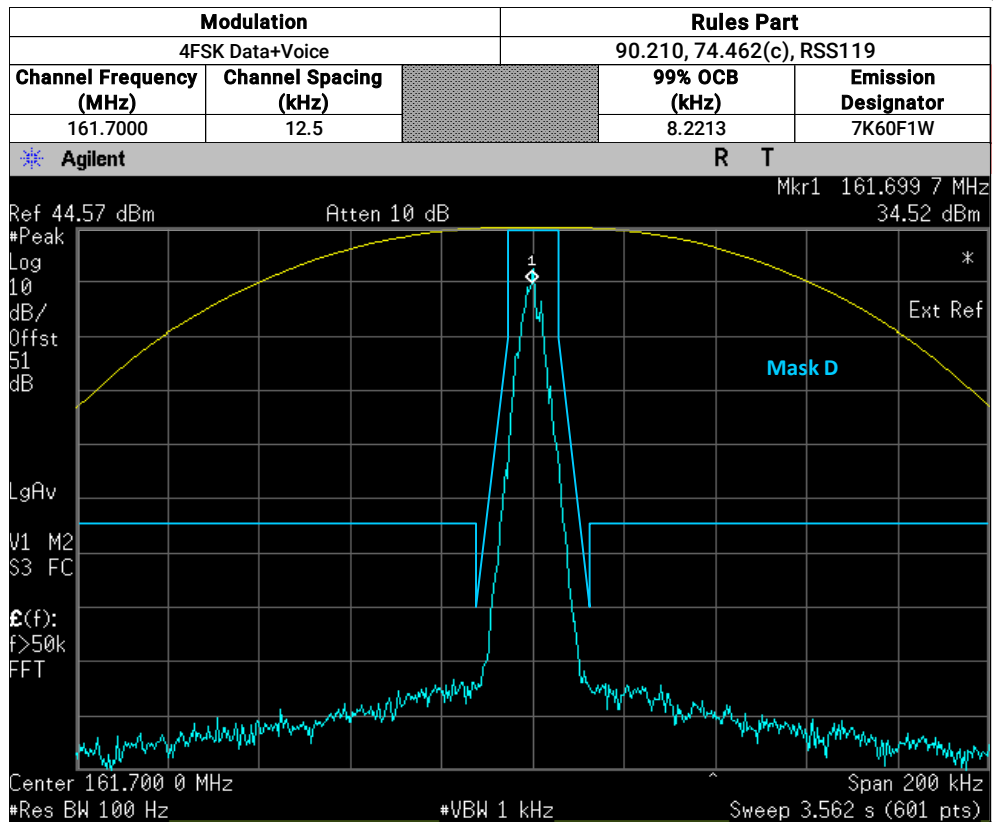


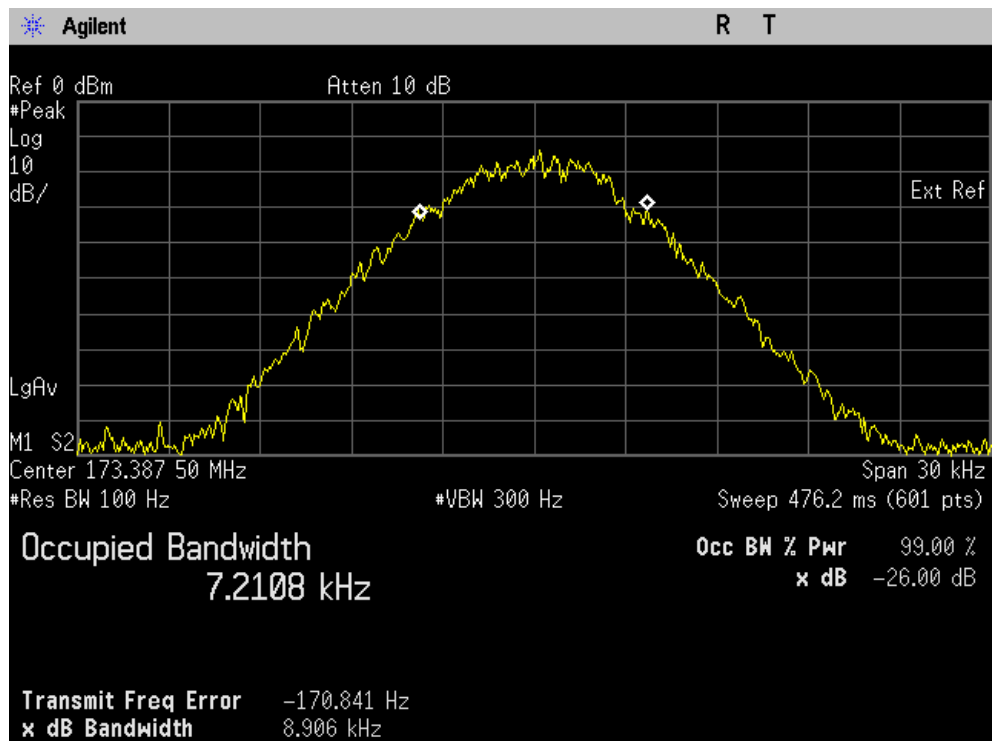
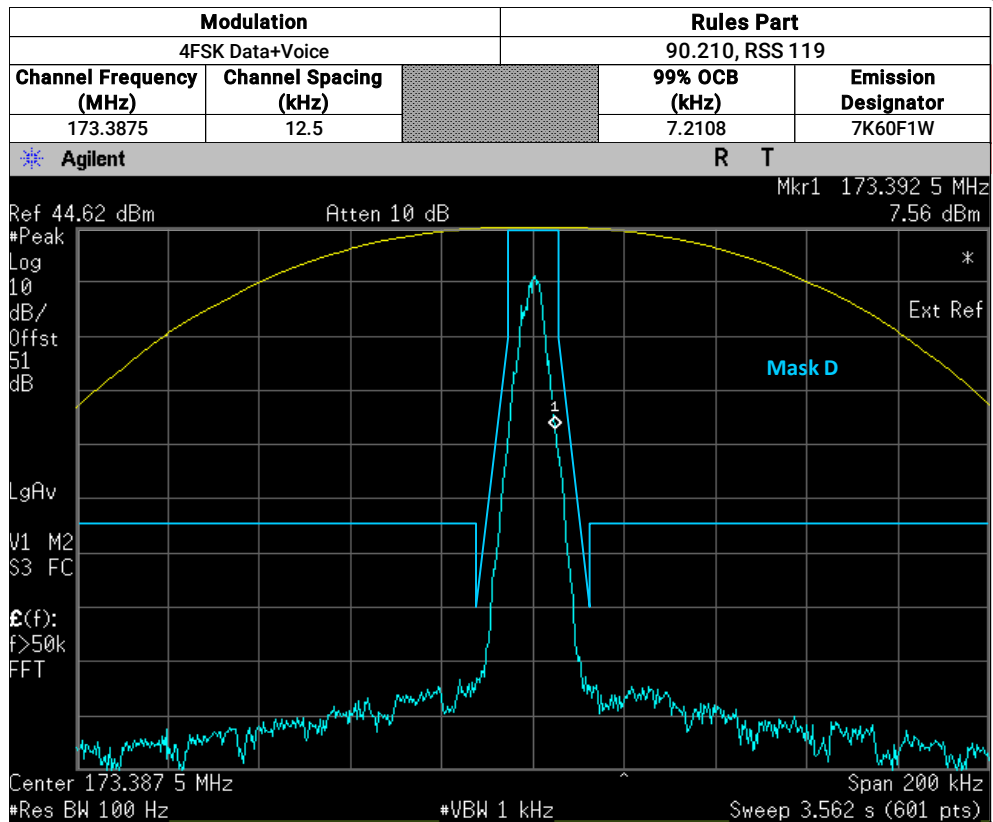
For Part 22 only



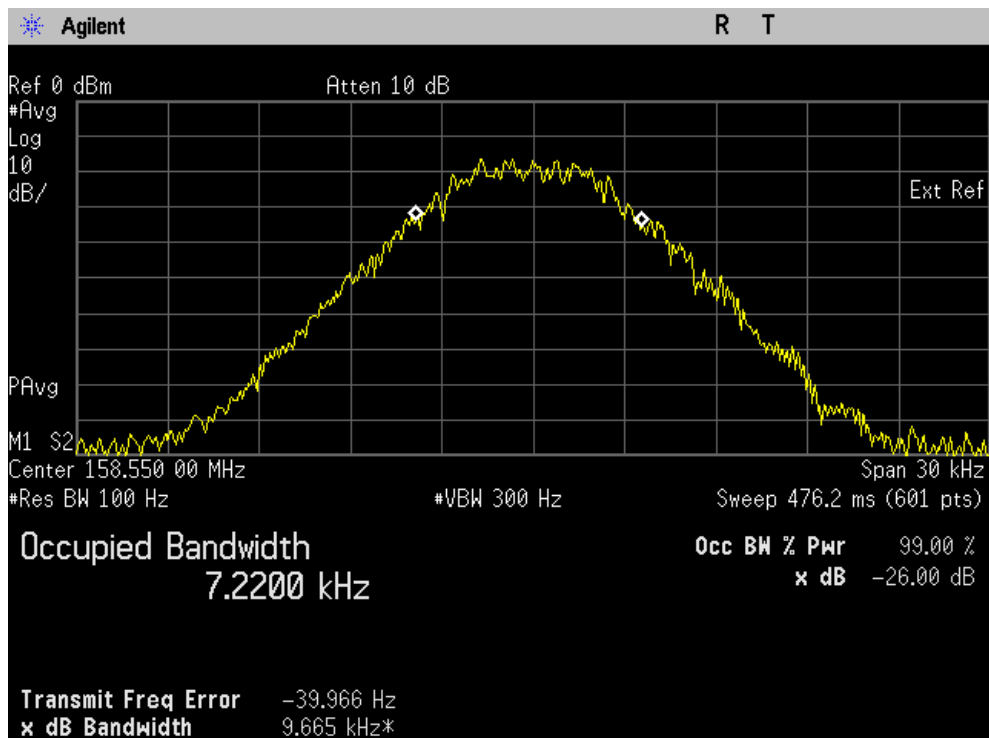
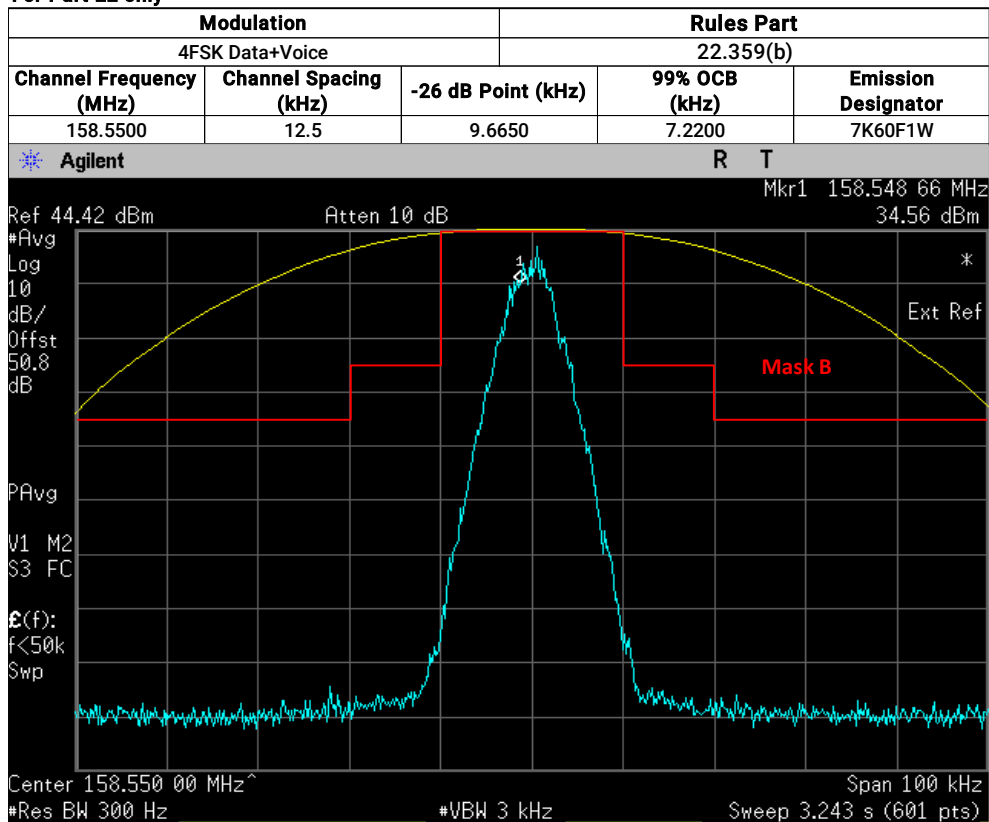
Not For FCC review







For Part 22 only

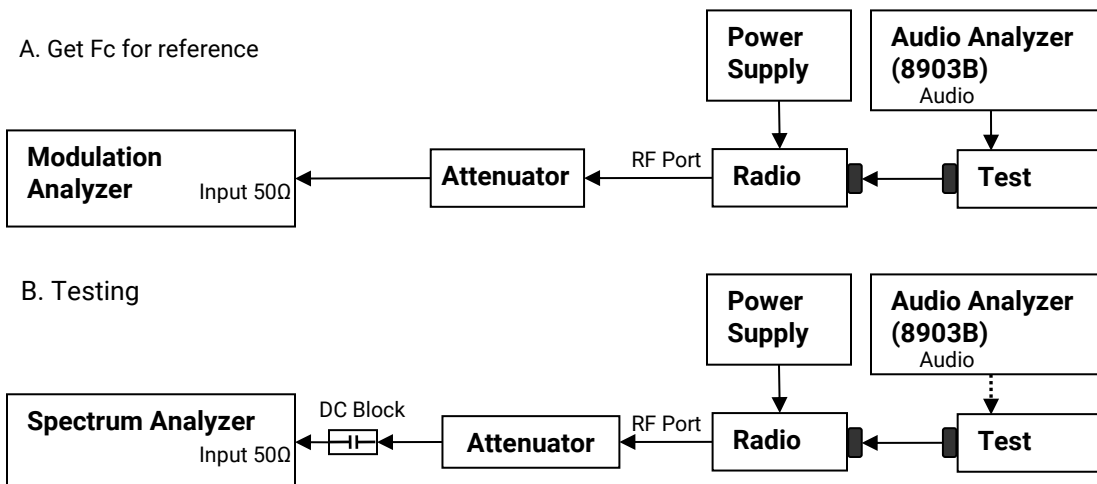


6.5.5. Test Limit

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)



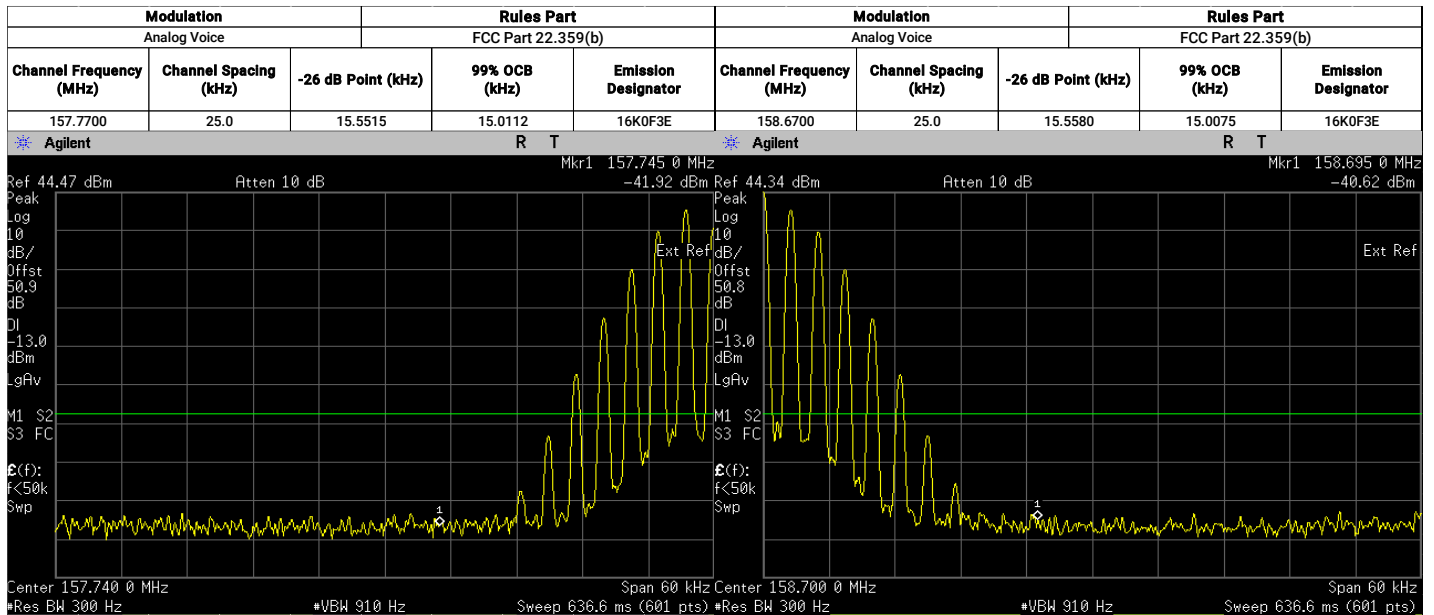
- 1) The DUT transmitter output port was connected to Modulation Analyzer.
- 2) Set the audio bandwidth filter to 15 kHz low pass filter and 50 kHz high pass filter.
- 3) Transmit the radio and set the audio analyzer to 2.5 kHz audio frequency and 50% of the rated deviation. Up the amplitude by 16 dB.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

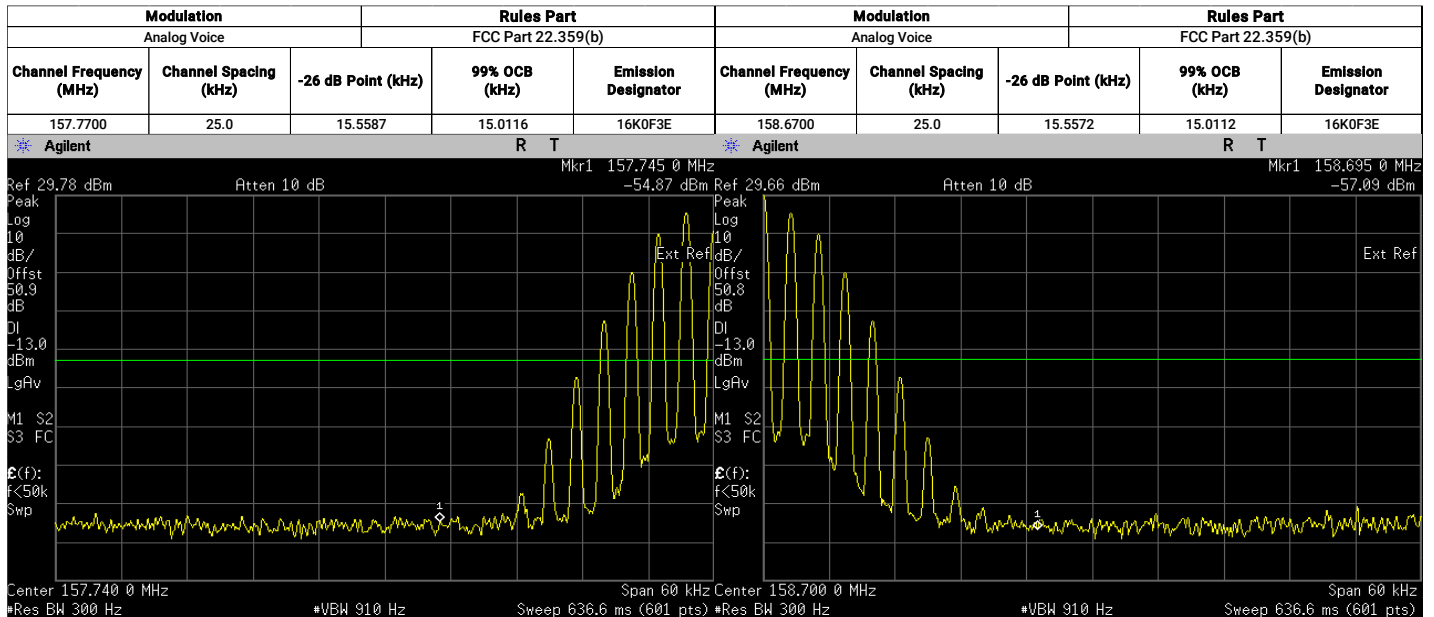
- For emission designator ending with F3E, 16K0F3E is the worst case and therefore only 16K0F3E will be shown.

6.6.2. Test Result (Analog)

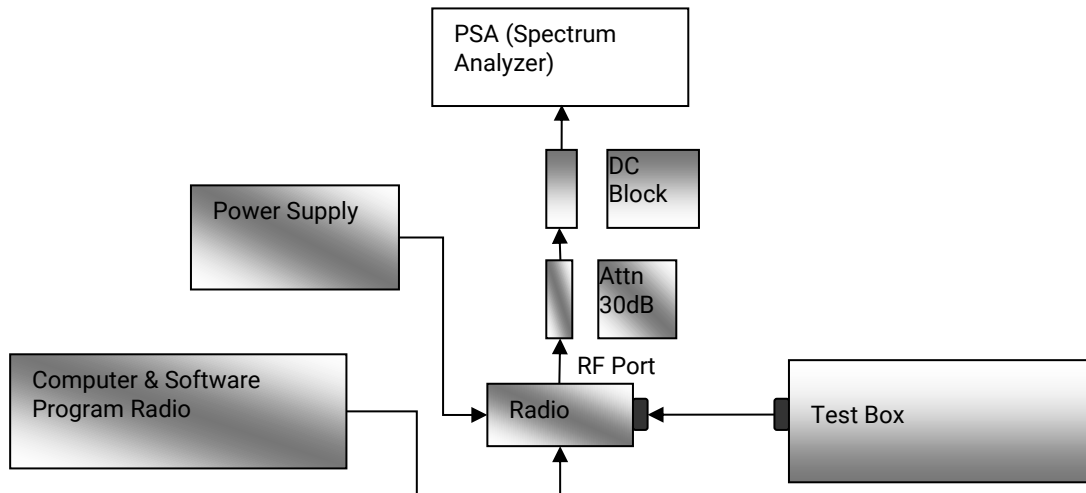
Max Power



Low Power



6.6.3. Test Setup (Digital)



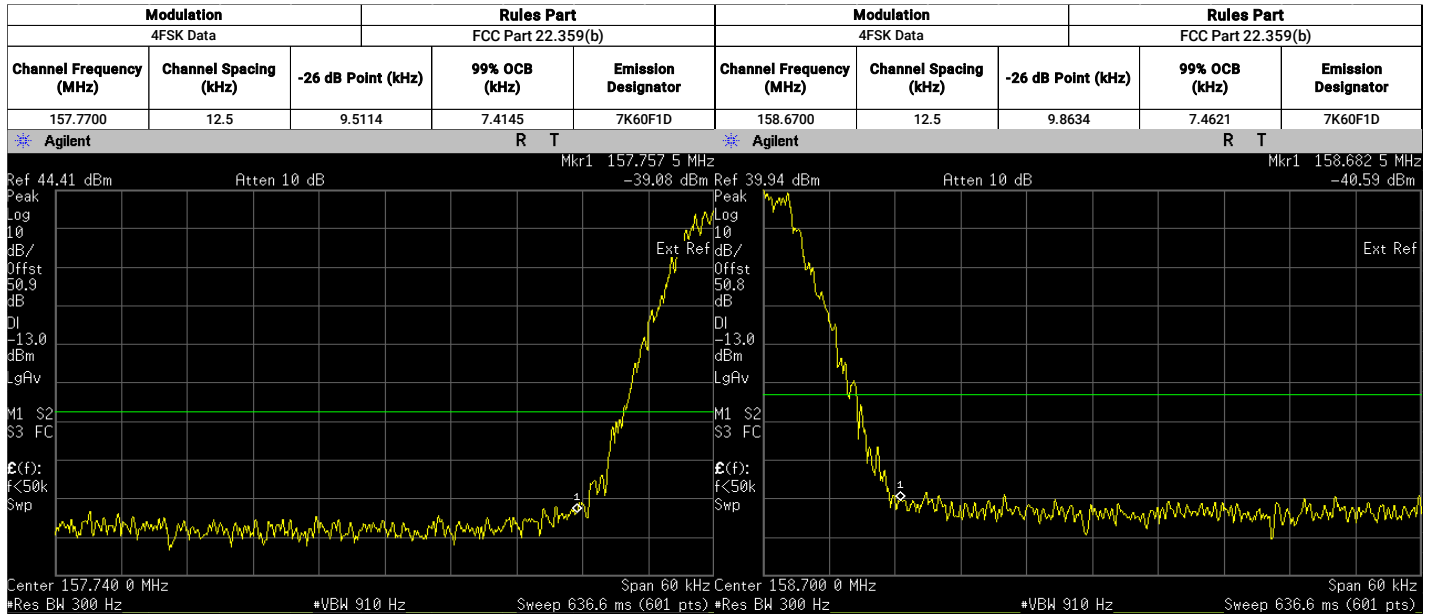
- 1) Program and set radio to operate in desire test frequency and digital mode with modulation. (*4FSK, C4FM or other digital modulation form).
- 2) Path loss for the measurement included.
- 3) Select the Occupied Bandwidth measurement for 99% and 26dB Emissions Bandwidth Measurement.
- 4) Key in the 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:**

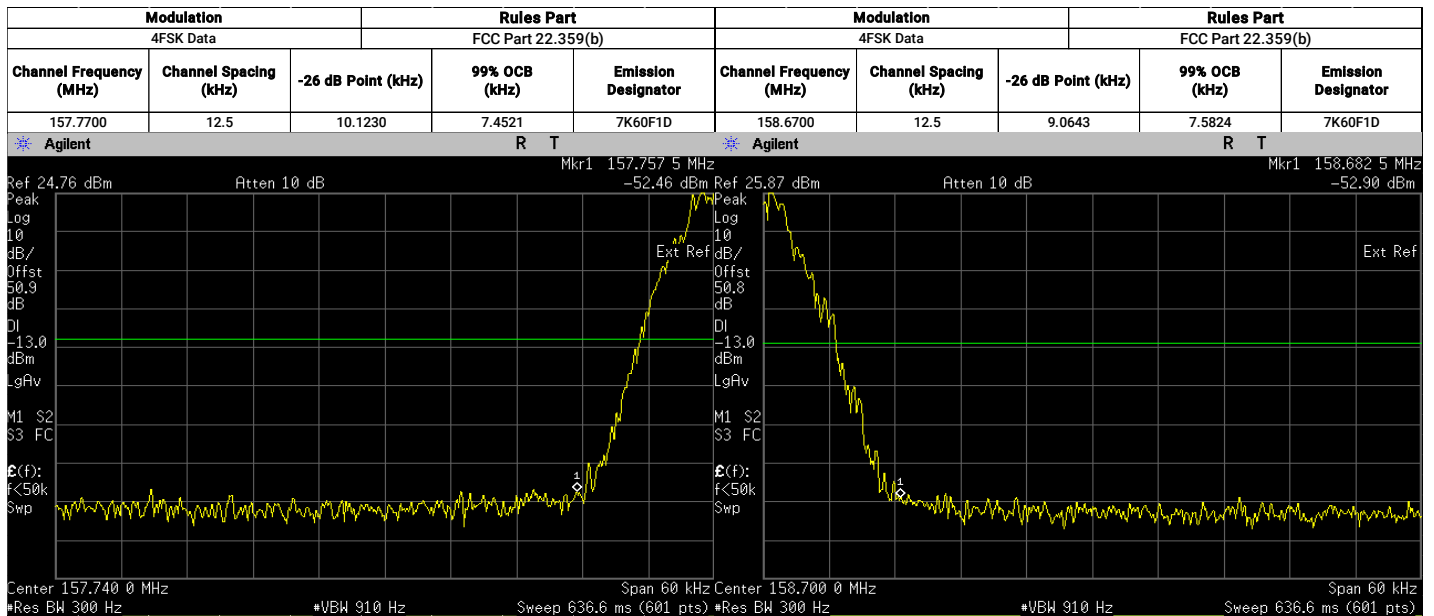
- For Digital Modulation, 12.5 kHz Data F1D & FXD would be the same. Therefore only measurements with F1D modulation shown below.
- For Digital Modulation, 12.5 kHz Data F1E & FXE would be the same. Therefore only measurements with F1E modulation shown below.

6.6.4. Test Result (Digital)

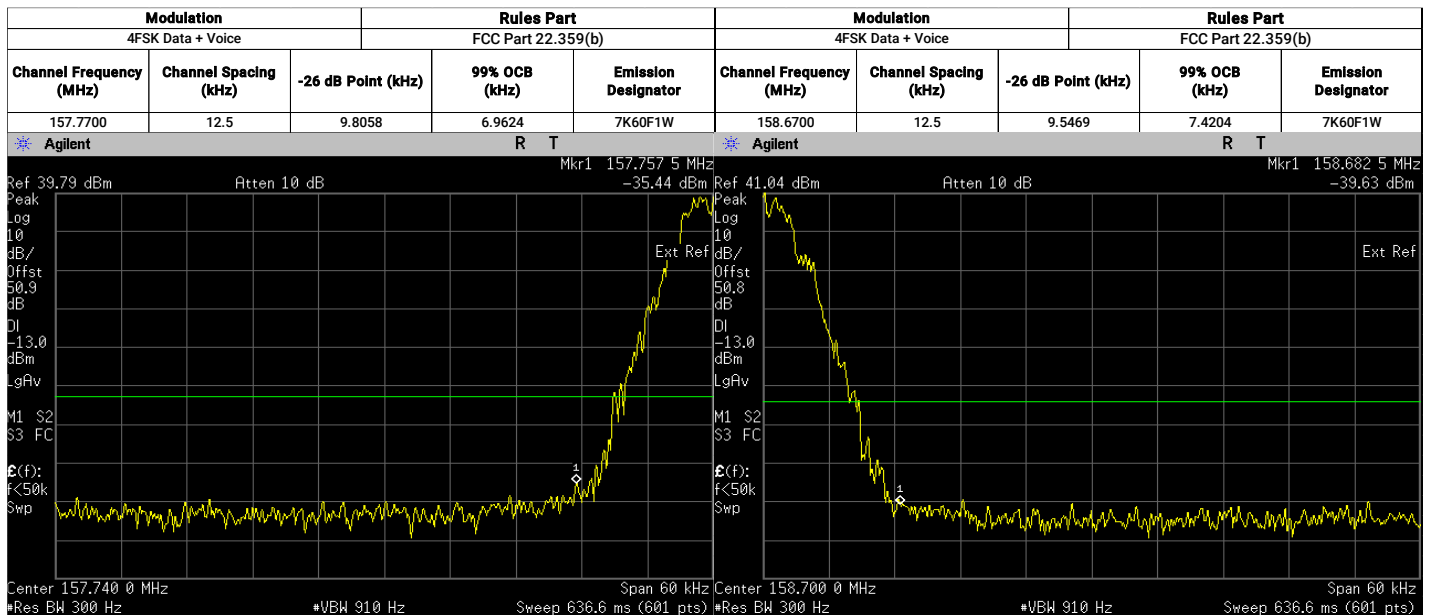
Max Power



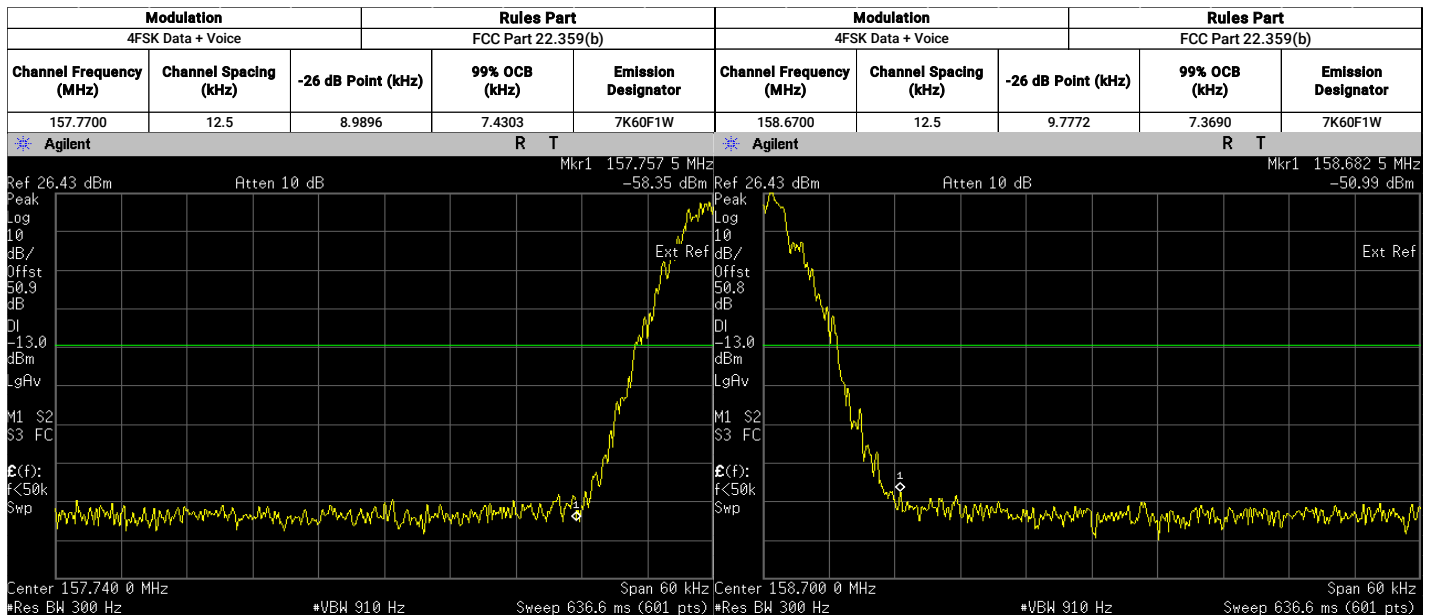
Low Power



Max Power



Low Power

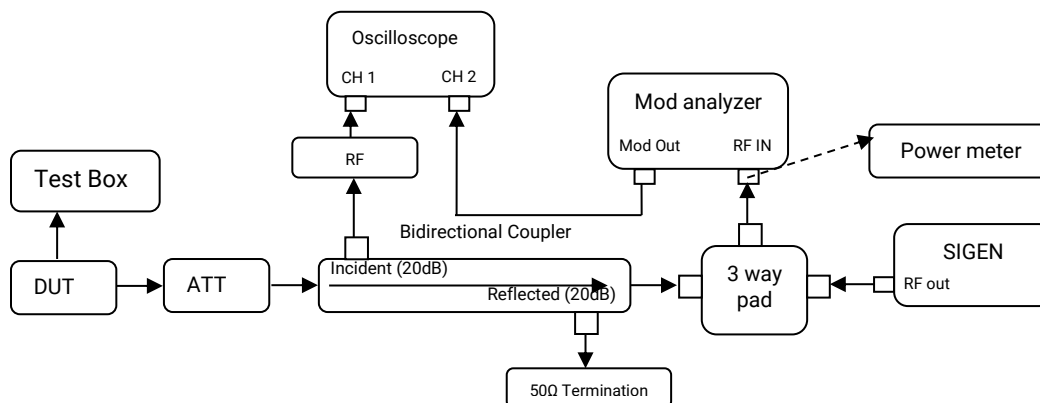


6.6.5. Test Limit

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

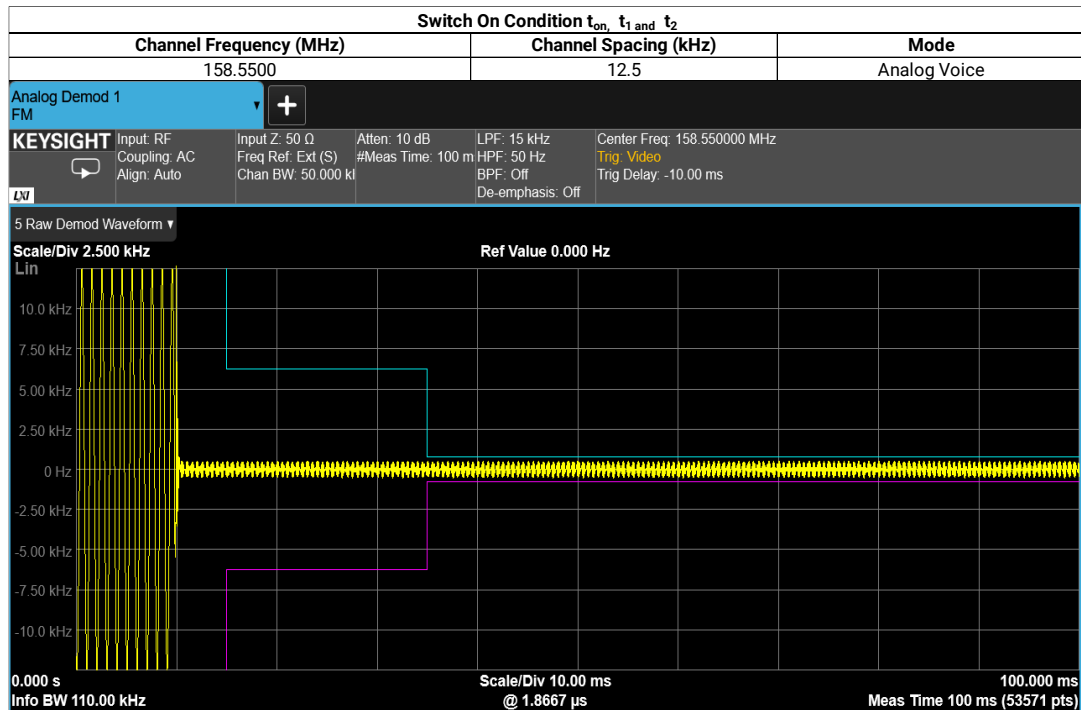
6.7.1. Test Setup



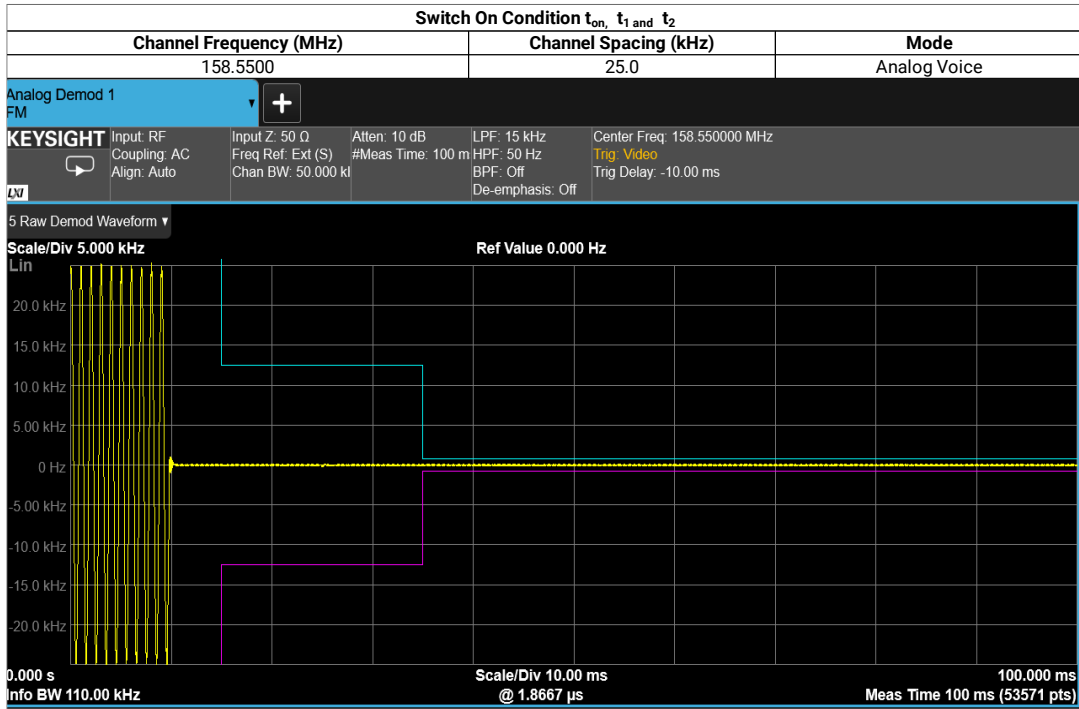
- 1) Connect the setup as figure above.
- 2) Path loss for the measurement included.
- 3) Set on Siggen with the assigned center frequency, internal 1 kHz FM tone.
FM Deviation: Analog 25kHz Channel Spacing = 25 kHz
 Analog 12.5 kHz Channel Spacing = 12.5 kHz
 C4FM = 12.5 kHz
- 4) Turn on 50 kHz high 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

Max Power



Not for FCC review
Max Power



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.

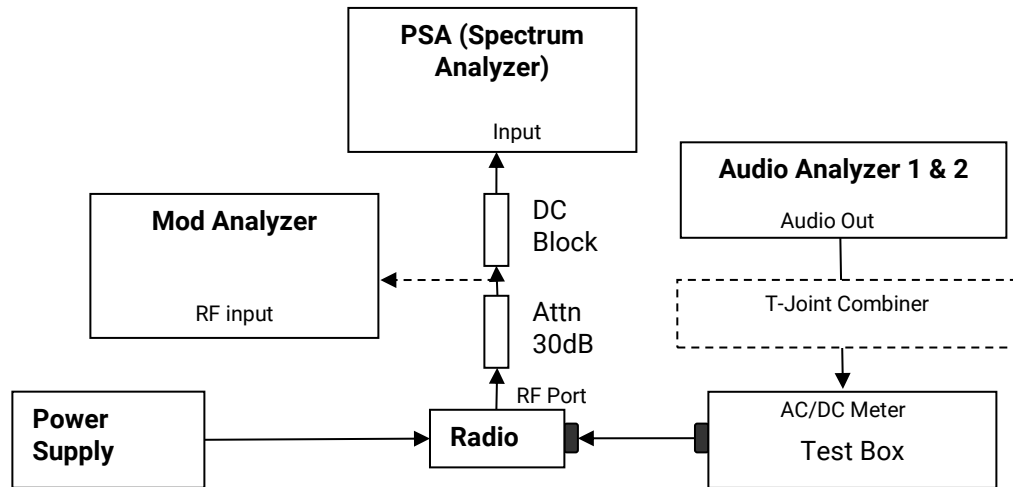
² During the time from the end of t_2 to the beginning of t_3 , the frequency difference must not exceed the limits specified in §90.213.

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

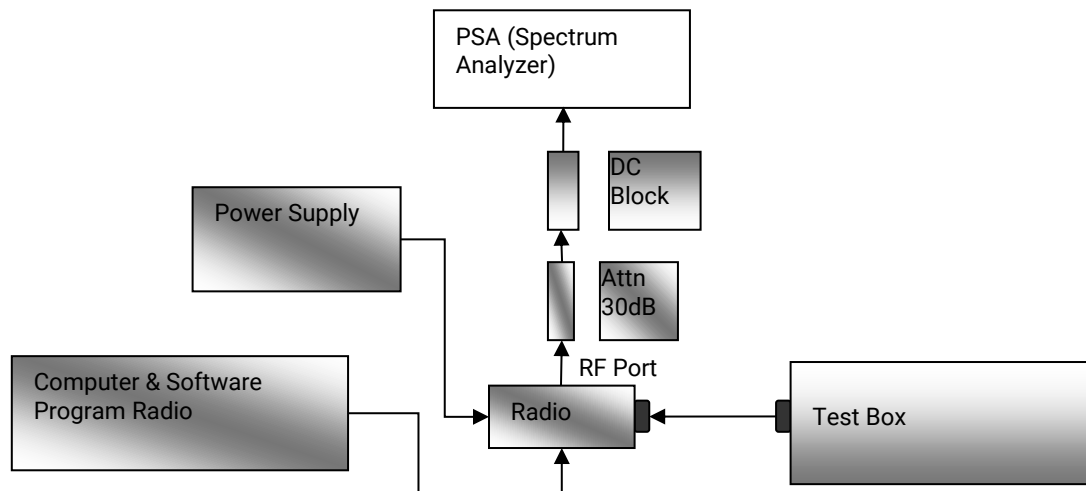
6.8.1. Test Setup (Analog)



- 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 Not Applicable

6.8.3. Test Setup (Digital)



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

6.8.4. Test Result Not Applicable

6.8.5. Test Limit

12.5 kHz MOBILE TRANSMITTER ACP REQUIREMENTS

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

25 kHz MOBILE TRANSMITTER ACP REQUIREMENTS

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

12.5 kHz BASE TRANSMITTER ACP REQUIREMENTS

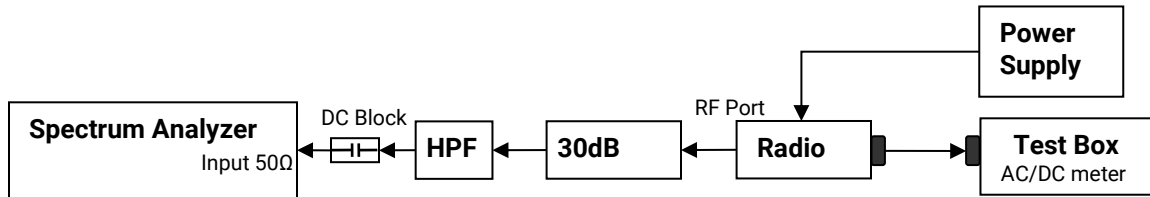
Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP (dBc)
9.375	6.25	-40
15.625	6.25	-60
21.875	6.25	-60
37.5	25	-60
62.5	25	-65
87.5	25	-65
150	100	-65
250	100	-65
350.00	100	-65
>400 kHz to 12 MHz	30 (s)	-80
12 MHz to paired receive band	30 (s)	-80
In the paired receive band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

25 kHz BASE TRANSMITTER ACP REQUIREMENTS

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

6.9. Conducted Spurious Emission

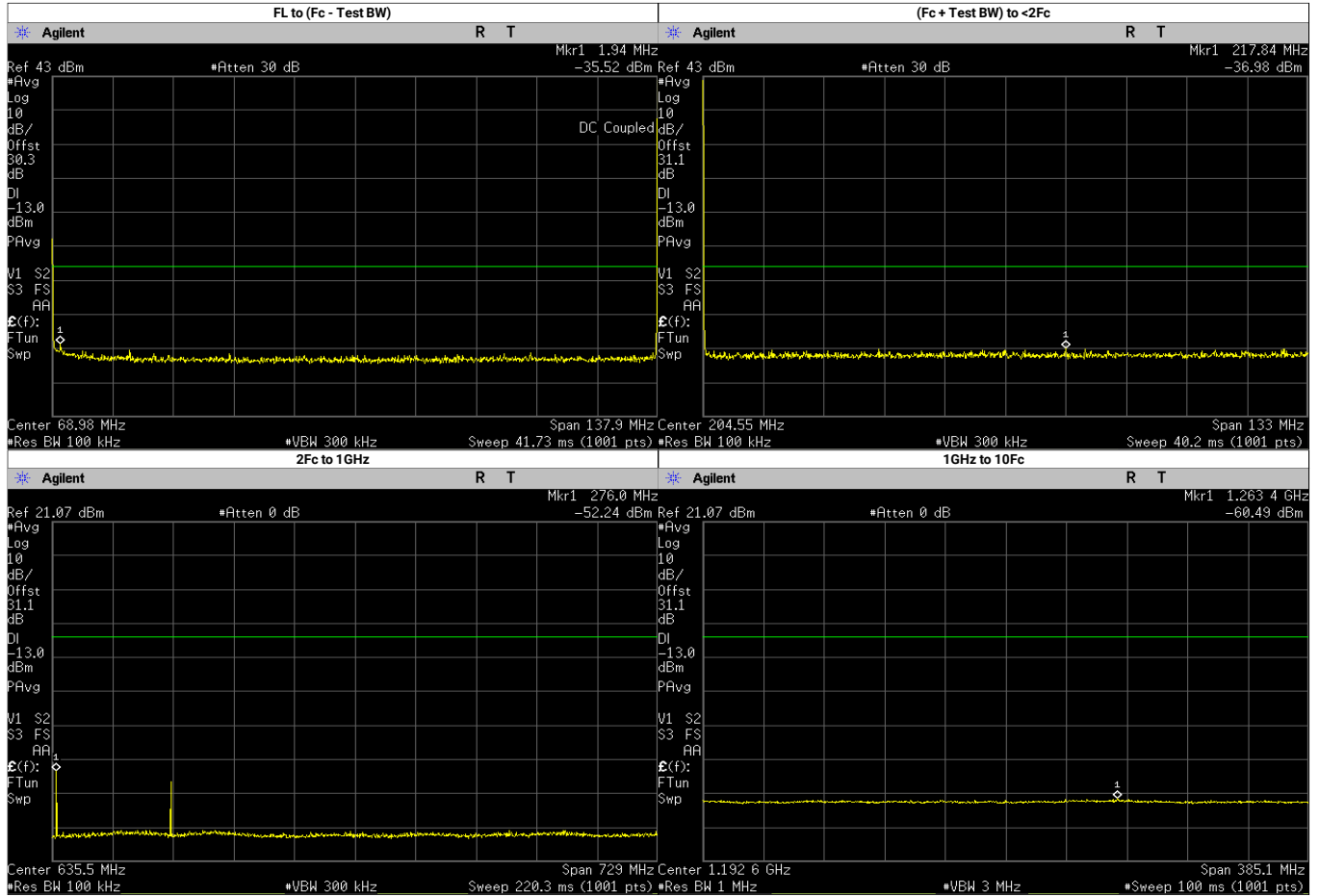
6.9.1. Test Setup



- 1) The DUT transmitter output port was connected to Spectrum Analyzer with above setup.
- 2) Program and set radio to operate in desire test frequency and mode. (Analog / digital modulation form).
- 3) Path loss for the measurement included.
- 4) Set the PSA Resolution Bandwidth as per rules part.
- 5) Set the Ref offset from the pathloss offset calibration file.
- 6) Adjust the center frequency of the spectrum analyzer for incremental coverage of the range from:
 - a. $9 \text{ KHz to } F_c - \text{Test Bandwidth}$
 - 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.

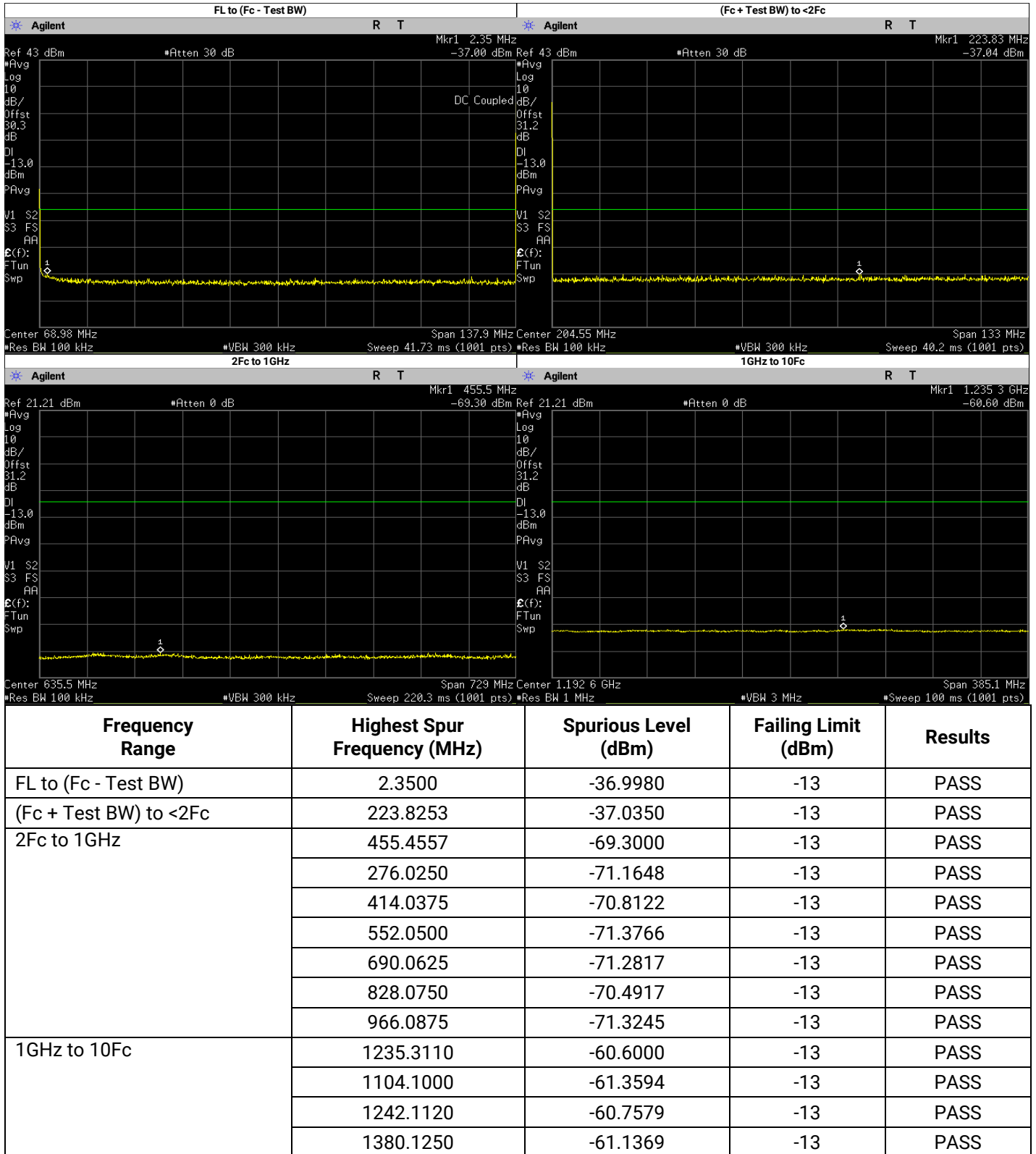
6.9.2. Test Result (Analog)

Analog: 138.0125 MHz, 25 kHz Channel Spacing, Max Power
Not for FCC review

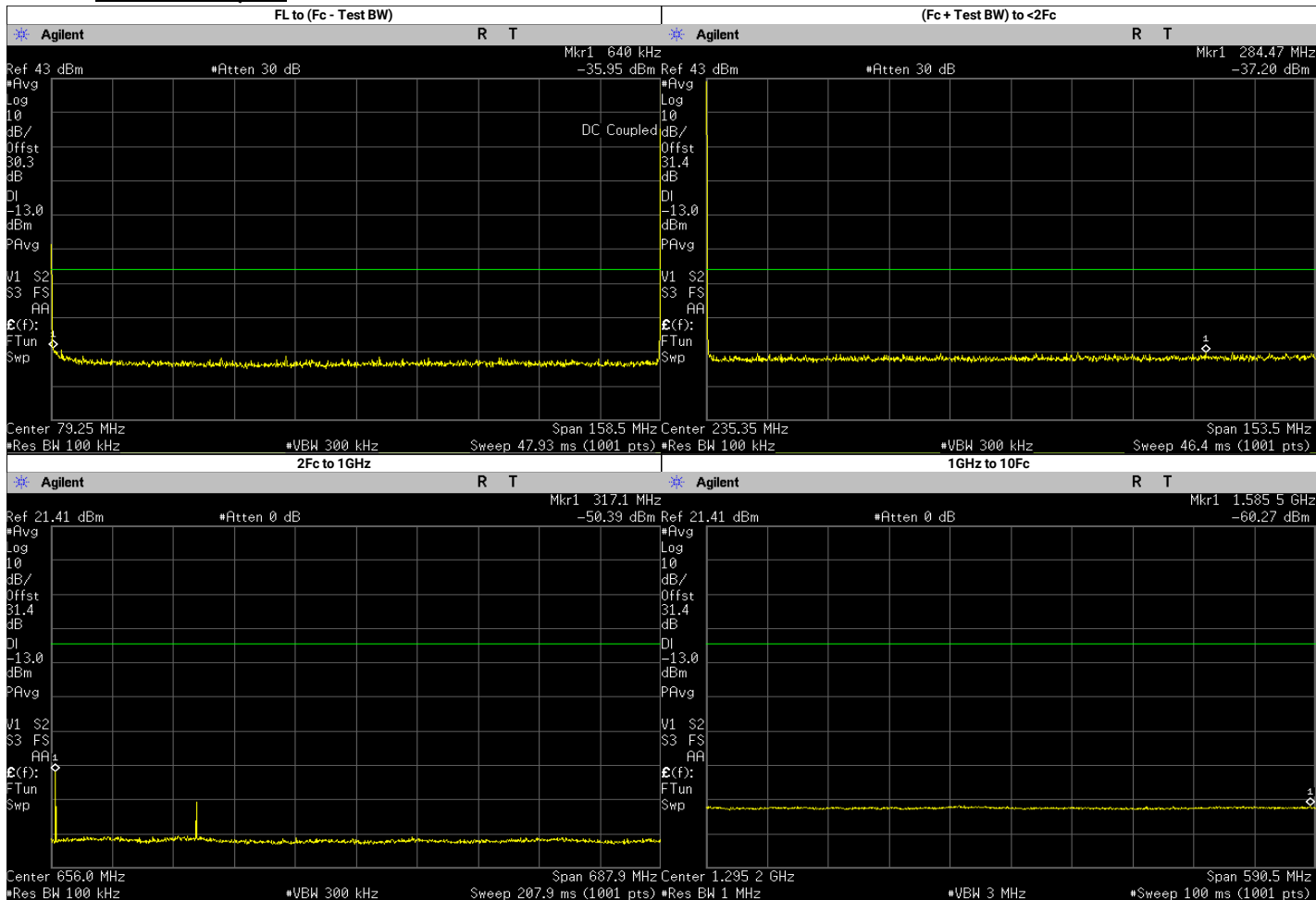


Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	1.9400	-35.5200	-13	PASS
(Fc + Test BW) to <2Fc	217.8423	-36.9800	-13	PASS
2Fc to 1GHz	276.0250	-52.2400	-13	PASS
	414.0375	-58.4101	-13	PASS
	552.0500	-71.1860	-13	PASS
	690.0625	-70.9263	-13	PASS
	828.0750	-71.1487	-13	PASS
	966.0875	-71.5002	-13	PASS
1GHz to 10Fc	1263.4260	-60.4900	-13	PASS
	1104.1000	-61.4470	-13	PASS
	1242.1120	-61.1036	-13	PASS
	1380.1250	-61.5032	-13	PASS

Analog: 138.0125 MHz, 25 kHz Channel Spacing, Low Power
Not for FCC review

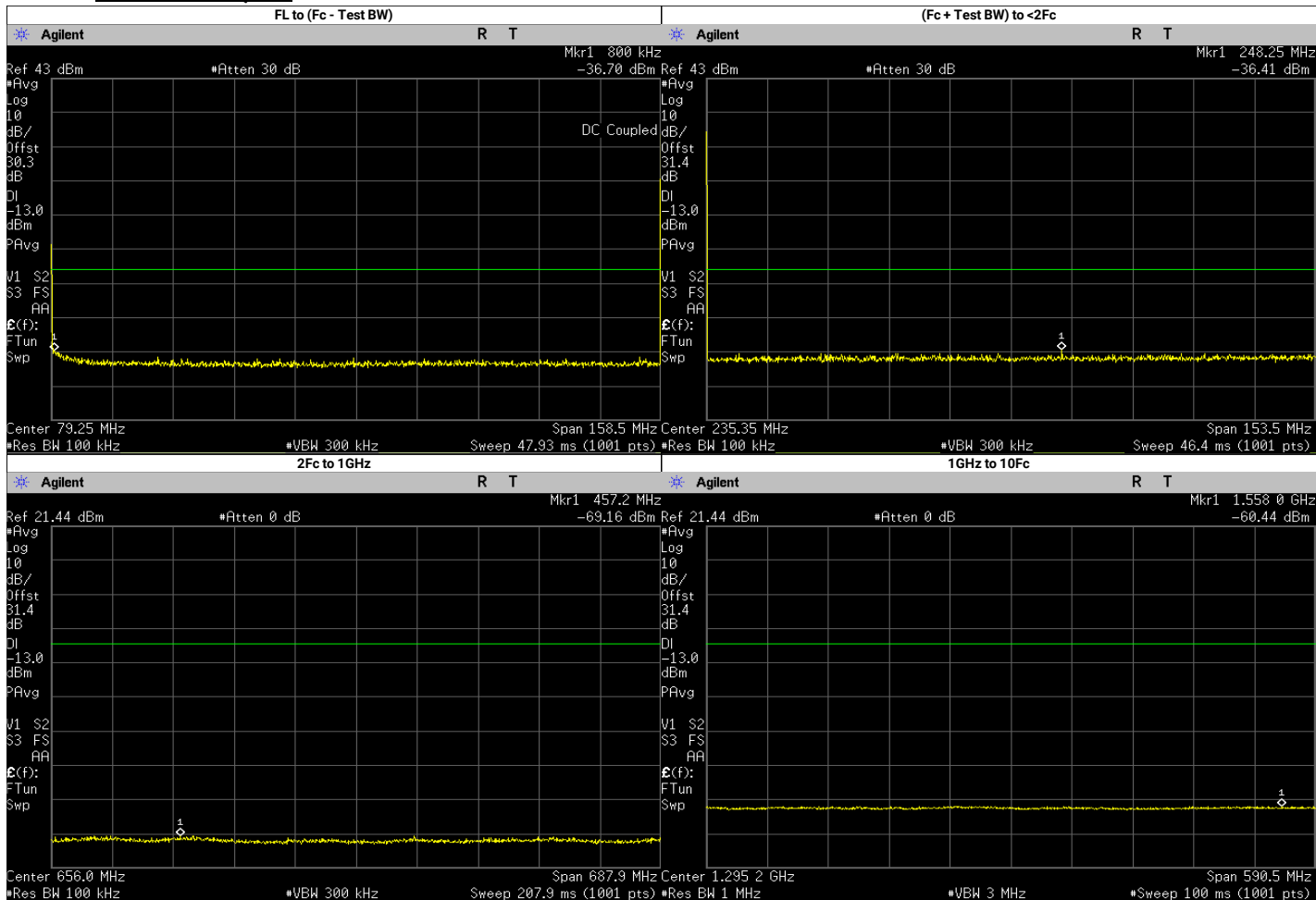


Analog: 158.5500 MHz, 25 kHz Channel Spacing, Max Power for Part 22, 80



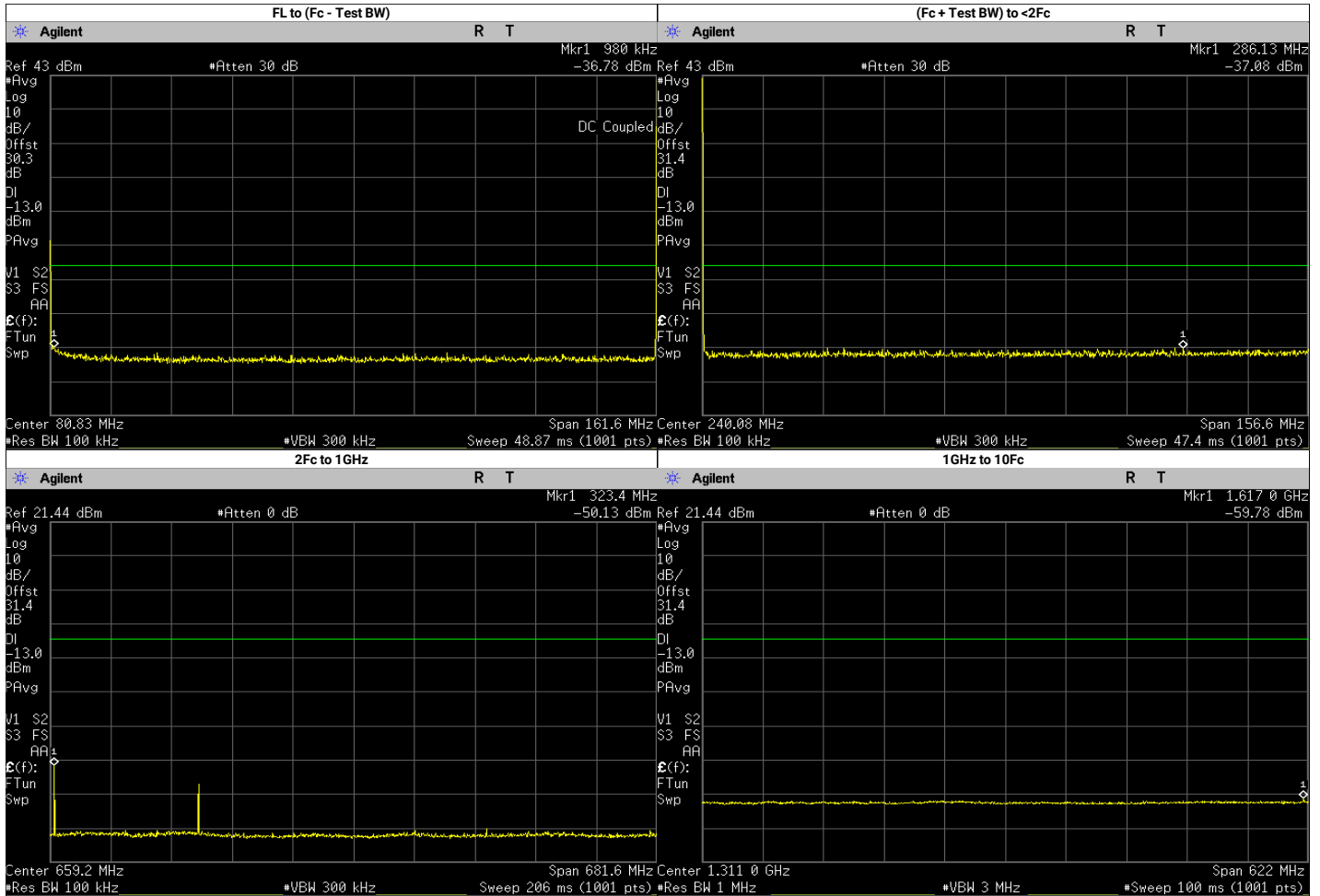
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.6400	-35.9460	-13	PASS
(Fc + Test BW) to <2Fc	284.4710	-37.2000	-13	PASS
2Fc to 1GHz	317.1000	-50.3900	-13	PASS
	475.6500	-61.8518	-13	PASS
	634.2000	-70.3482	-13	PASS
	792.7500	-70.6017	-13	PASS
	951.3000	-71.2678	-13	PASS
1GHz to 10Fc	1585.5000	-60.2700	-13	PASS
	1109.8500	-61.0706	-13	PASS
	1268.4000	-60.7864	-13	PASS
	1426.9500	-60.6840	-13	PASS

Analog: 158.5500 MHz, 25 kHz Channel Spacing, Low Power For Part 22, 80



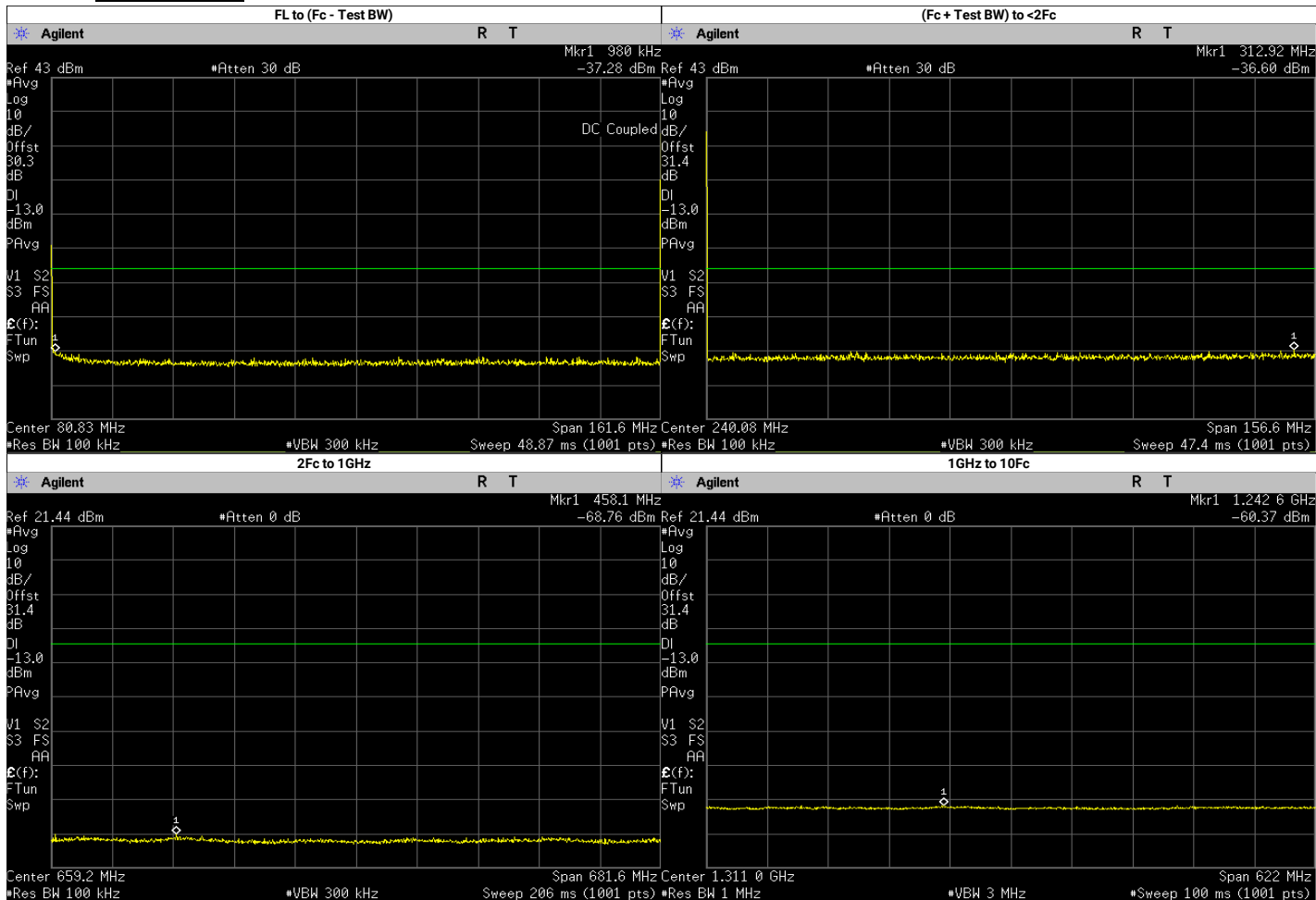
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.8000	-36.6960	-13	PASS
(Fc + Test BW) to <2Fc	248.2463	-36.4100	-13	PASS
2Fc to 1GHz	457.2469	-69.1600	-13	PASS
	317.1000	-69.7634	-13	PASS
	475.6500	-70.2132	-13	PASS
	634.2000	-70.4281	-13	PASS
	792.7500	-70.6029	-13	PASS
	951.3000	-71.0184	-13	PASS
1GHz to 10Fc	1558.0230	-60.4400	-13	PASS
	1109.8500	-61.2032	-13	PASS
	1268.4000	-60.7735	-13	PASS
	1426.9500	-61.3296	-13	PASS
	1585.5000	-60.9184	-13	PASS

Analog: 161.7000 MHz, 25 kHz Channel Spacing, Max Power For Part 74



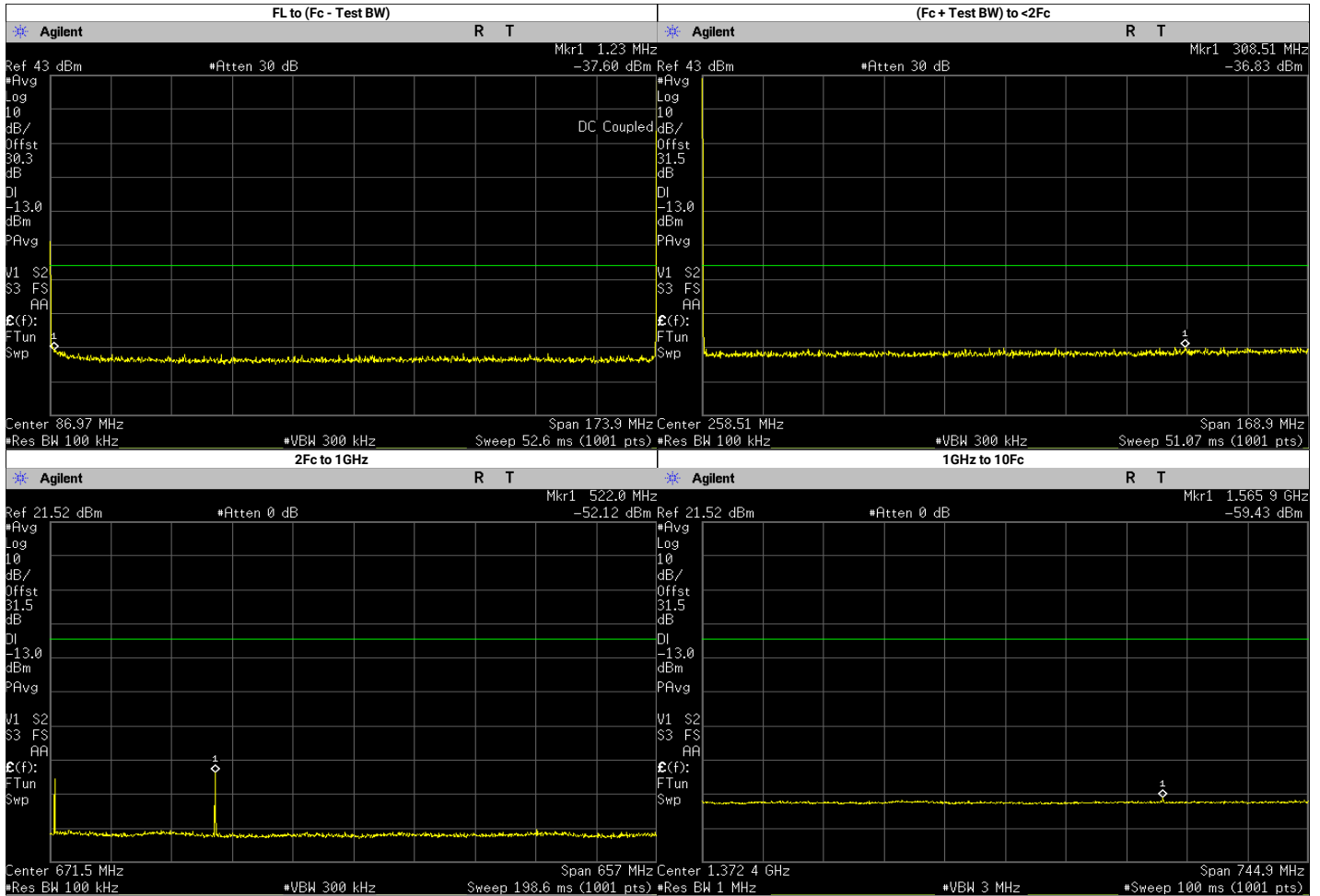
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.9800	-36.7790	-13	PASS
(Fc + Test BW) to <2Fc	286.1313	-37.0800	-13	PASS
2Fc to 1GHz	323.4000	-50.1300	-13	PASS
	485.1000	-57.9958	-13	PASS
	646.8000	-70.6128	-13	PASS
	808.5000	-68.8037	-13	PASS
	970.2000	-70.5879	-13	PASS
1GHz to 10Fc	1617.0000	-59.7800	-13	PASS
	1131.9000	-60.9356	-13	PASS
	1293.6000	-60.9974	-13	PASS
	1455.3000	-60.5438	-13	PASS

Analog: 161.7000 MHz, 25 kHz Channel Spacing, Low Power For Part 74



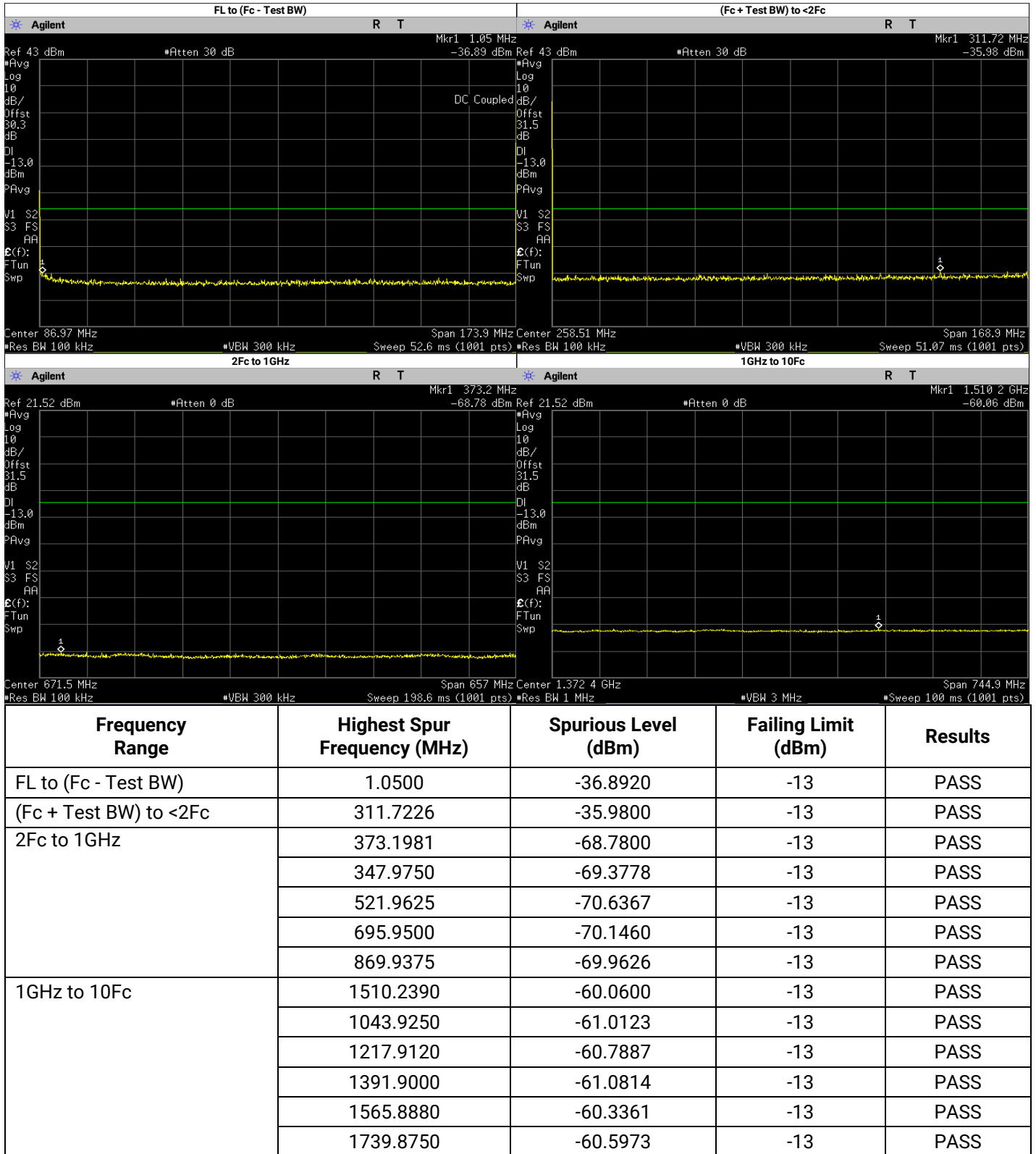
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.9800	-37.2840	-13	PASS
(Fc + Test BW) to <2Fc	312.9174	-36.6000	-13	PASS
2Fc to 1GHz	458.1000	-68.7600	-13	PASS
	323.4000	-69.2738	-13	PASS
	646.8000	-70.7992	-13	PASS
	808.5000	-70.6864	-13	PASS
	970.2000	-70.6038	-13	PASS
1GHz to 10Fc	1242.5800	-60.3700	-13	PASS
	1131.9000	-61.0880	-13	PASS
	1293.6000	-61.1374	-13	PASS
	1455.3000	-60.8909	-13	PASS
	1617.0000	-60.6162	-13	PASS

Analog: 173.9875 MHz, 25 kHz Channel Spacing, Max Power
Not for FCC review



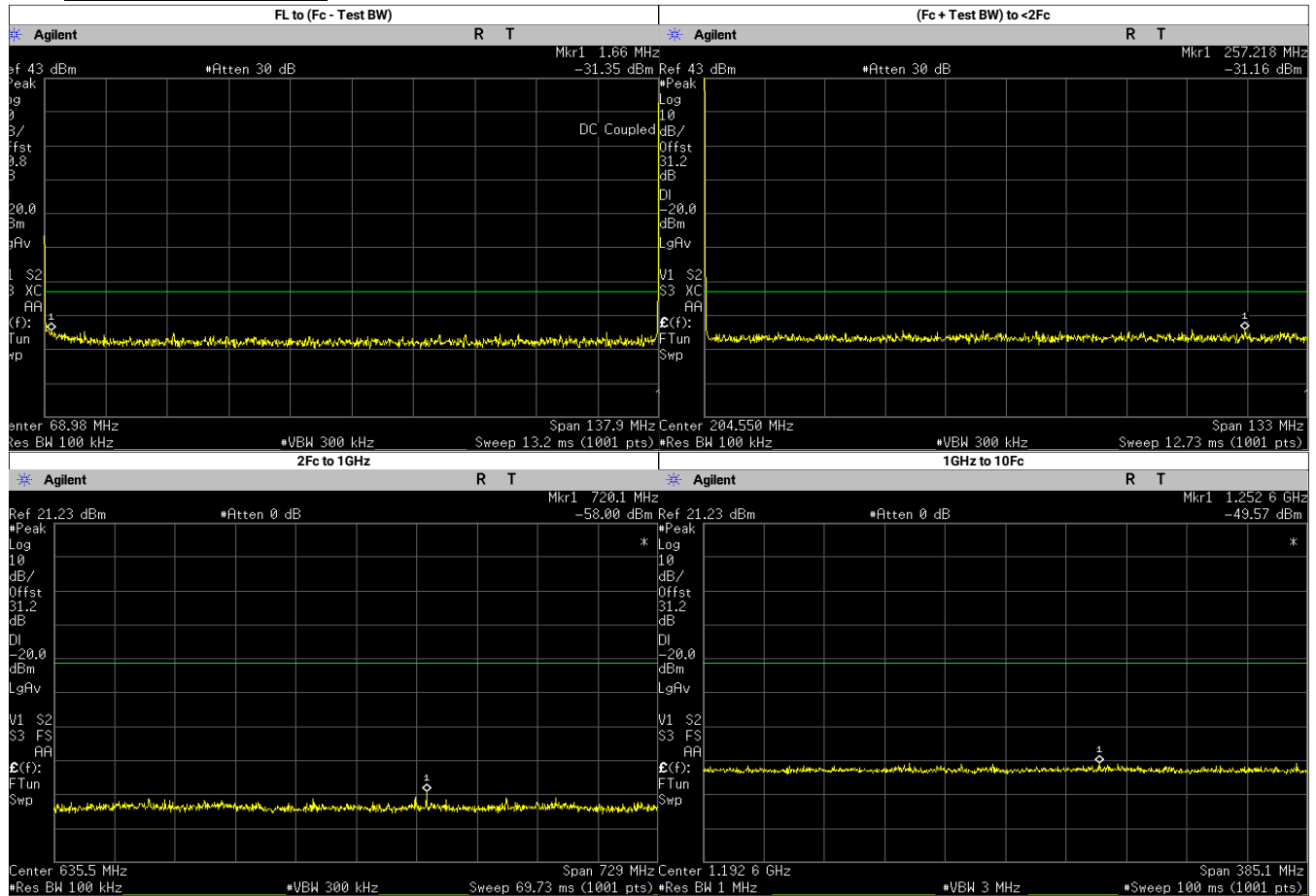
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	1.2300	-37.6030	-13	PASS
(Fc + Test BW) to <2Fc	308.5129	-36.8300	-13	PASS
2Fc to 1GHz	521.9625	-52.1200	-13	PASS
	347.9750	-57.4077	-13	PASS
	695.9500	-70.4913	-13	PASS
	869.9375	-68.7755	-13	PASS
1GHz to 10Fc	1565.8880	-59.4300	-13	PASS
	1043.9250	-61.0854	-13	PASS
	1217.9120	-60.9683	-13	PASS
	1391.9000	-60.8658	-13	PASS
	1739.8750	-60.2429	-13	PASS

Analog: 173.9875 MHz, 25 kHz Channel Spacing, Low Power
Not for FCC review



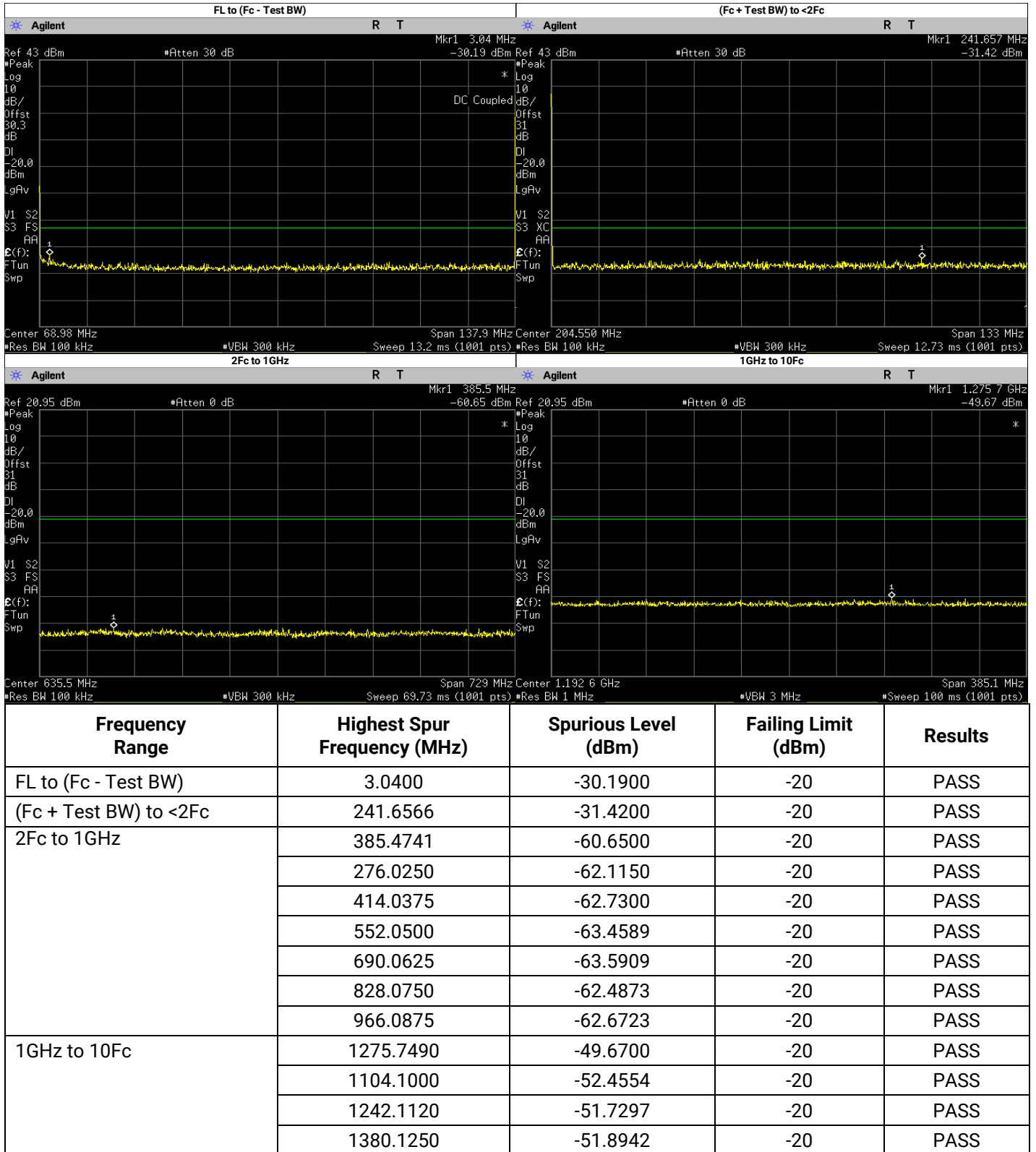
6.9.3. Test Result (Digital)

Digital: 138.0125 MHz, 12.5 kHz Channel Spacing, Max Power Not for FCC review

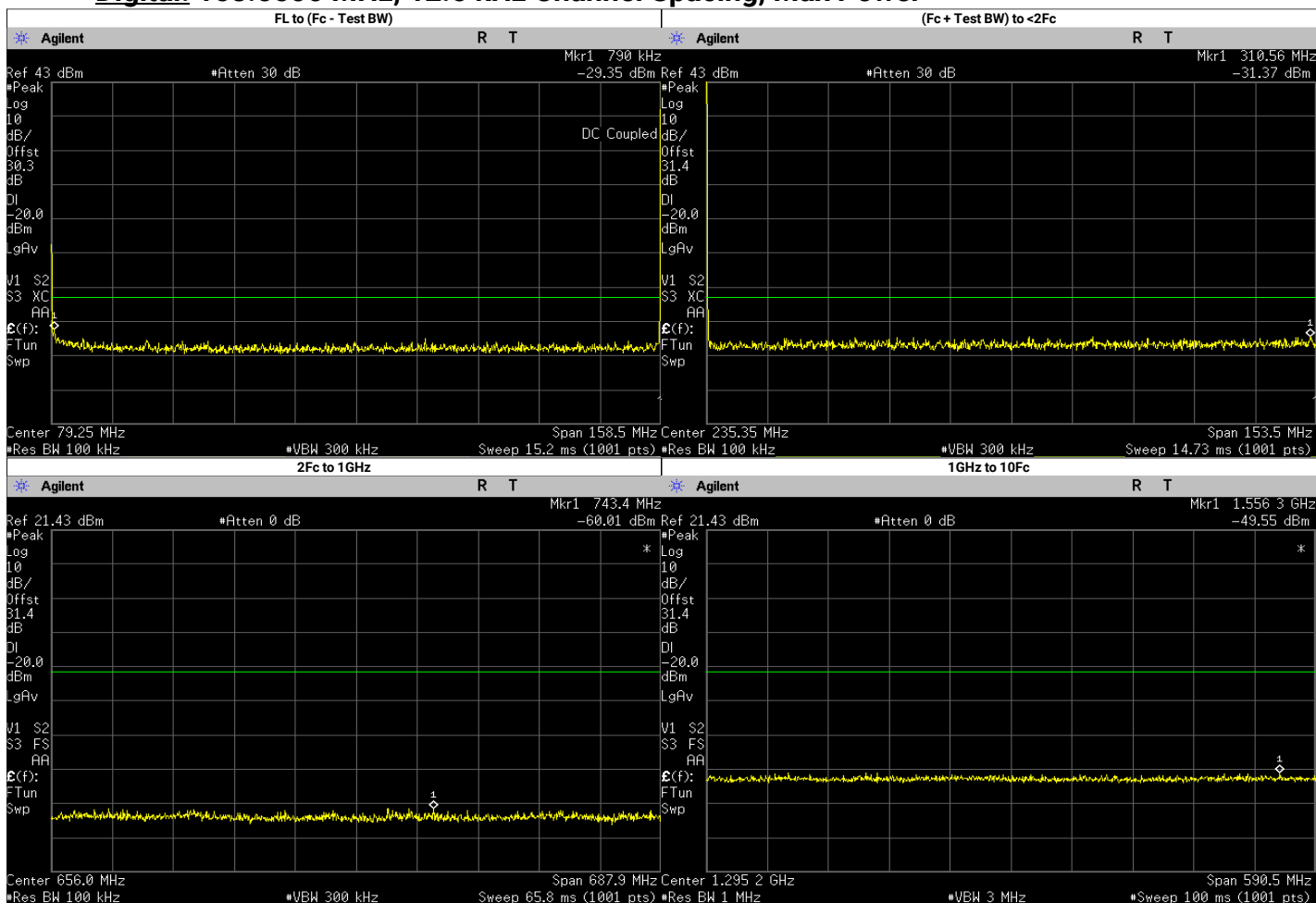


Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	1.6600	-31.3500	-20	PASS
(Fc + Test BW) to <2Fc	257.2183	-31.1600	-20	PASS
2Fc to 1GHz	720.0736	-58.0000	-20	PASS
	276.0250	-62.3573	-20	PASS
	414.0375	-61.3593	-20	PASS
	552.0500	-63.1316	-20	PASS
	690.0625	-63.0776	-20	PASS
	828.0750	-62.8389	-20	PASS
	966.0875	-62.4704	-20	PASS
1GHz to 10Fc	1252.6420	-49.5700	-20	PASS
	1104.1000	-51.9372	-20	PASS
	1242.1120	-50.6726	-20	PASS
	1380.1250	-51.8020	-20	PASS

Digital: 138.0125 MHz, 12.5 kHz Channel Spacing, Low Power
Not for FCC review

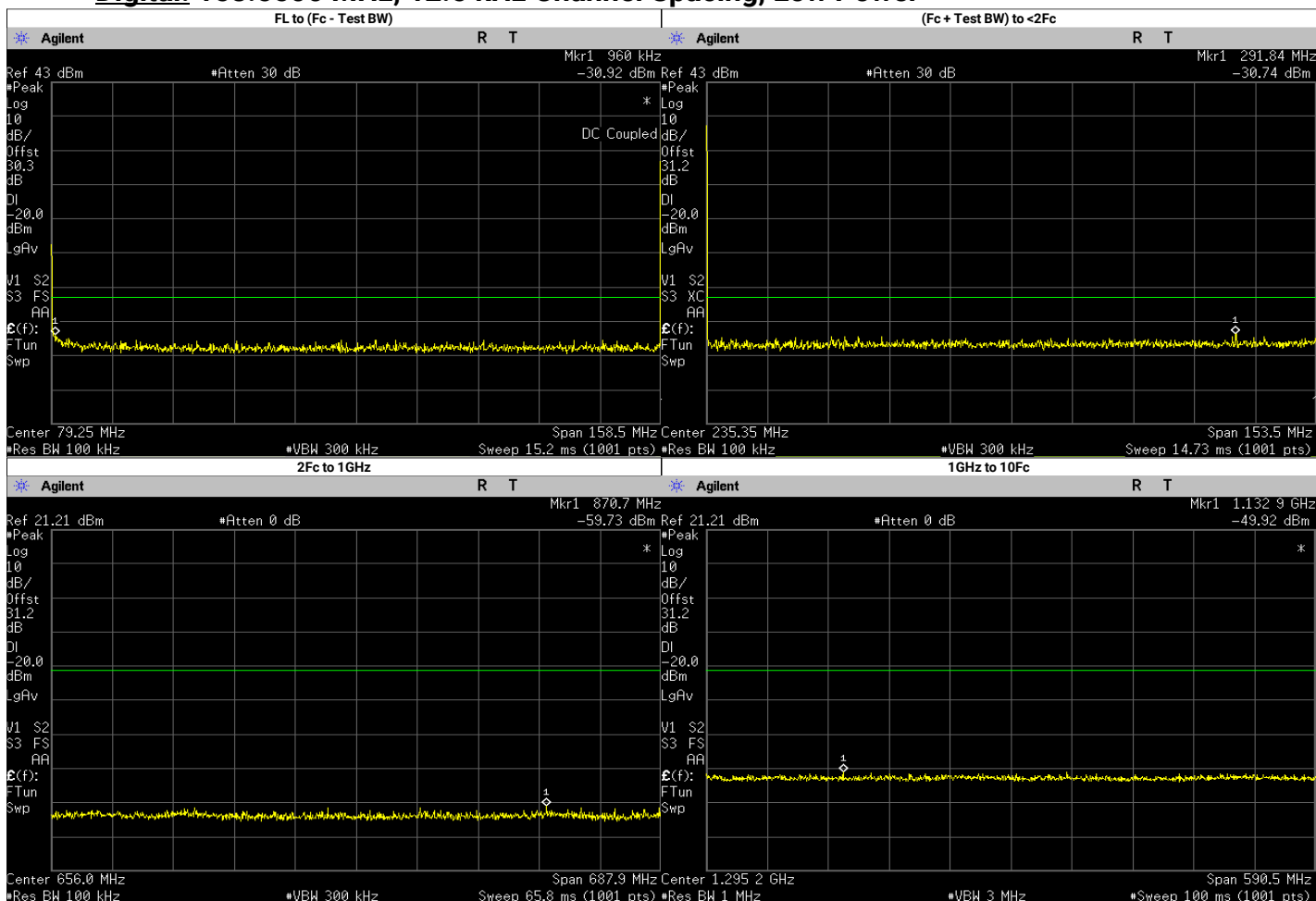


Digital: 158.5500 MHz, 12.5 kHz Channel Spacing, Max Power



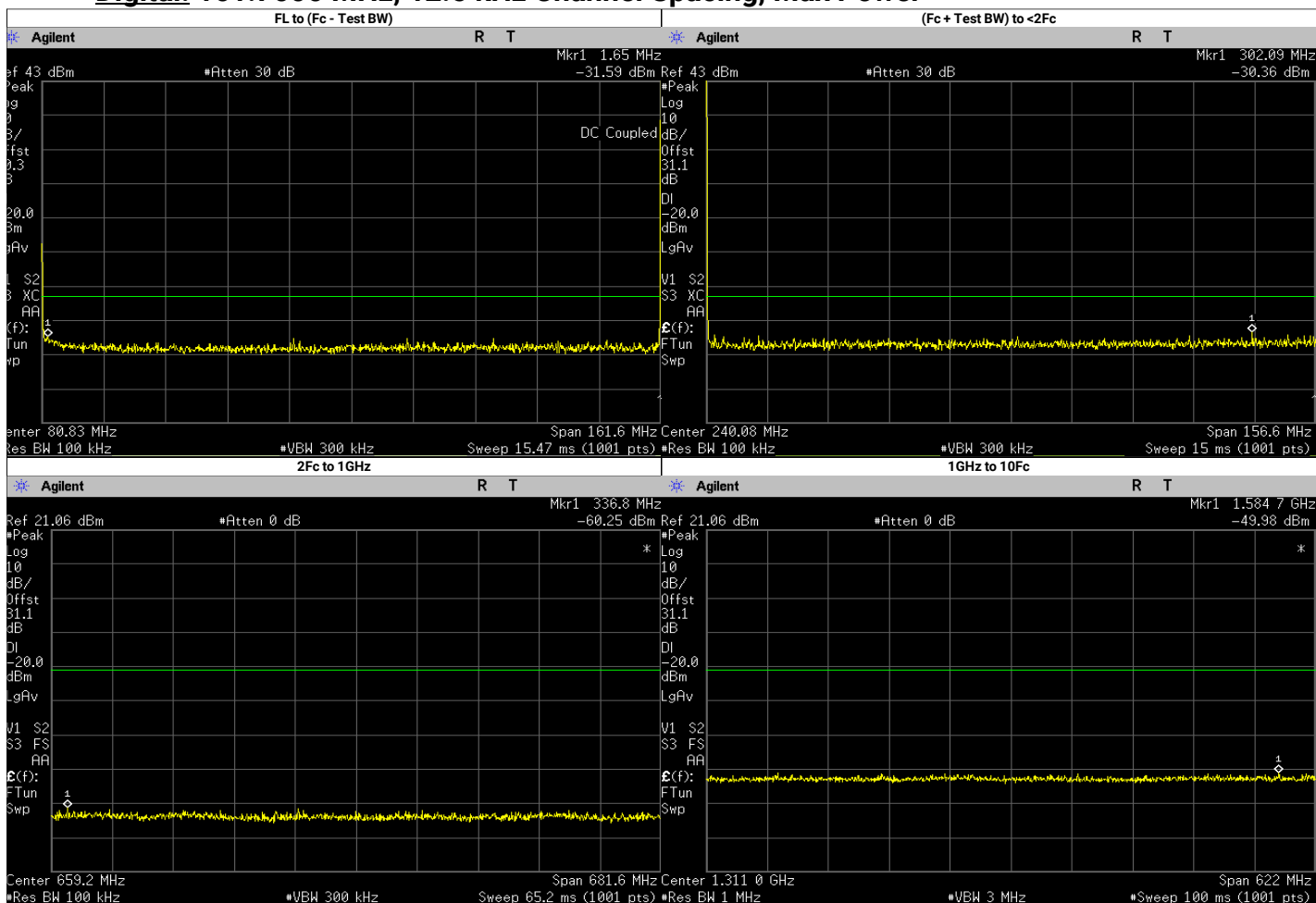
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.7900	-29.3500	-20	PASS
(Fc + Test BW) to <2Fc	310.5600	-31.3700	-20	PASS
2Fc to 1GHz	743.4133	-60.0100	-20	PASS
	317.1000	-62.5759	-20	PASS
	475.6500	-61.9121	-20	PASS
	634.2000	-62.4363	-20	PASS
	792.7500	-63.3740	-20	PASS
	951.3000	-62.6393	-20	PASS
1GHz to 10Fc	1556.2510	-49.5500	-20	PASS
	1109.8500	-51.1360	-20	PASS
	1268.4000	-51.5945	-20	PASS
	1426.9500	-51.6639	-20	PASS
	1585.5000	-51.4472	-20	PASS

Digital: 158.5500 MHz, 12.5 kHz Channel Spacing, Low Power



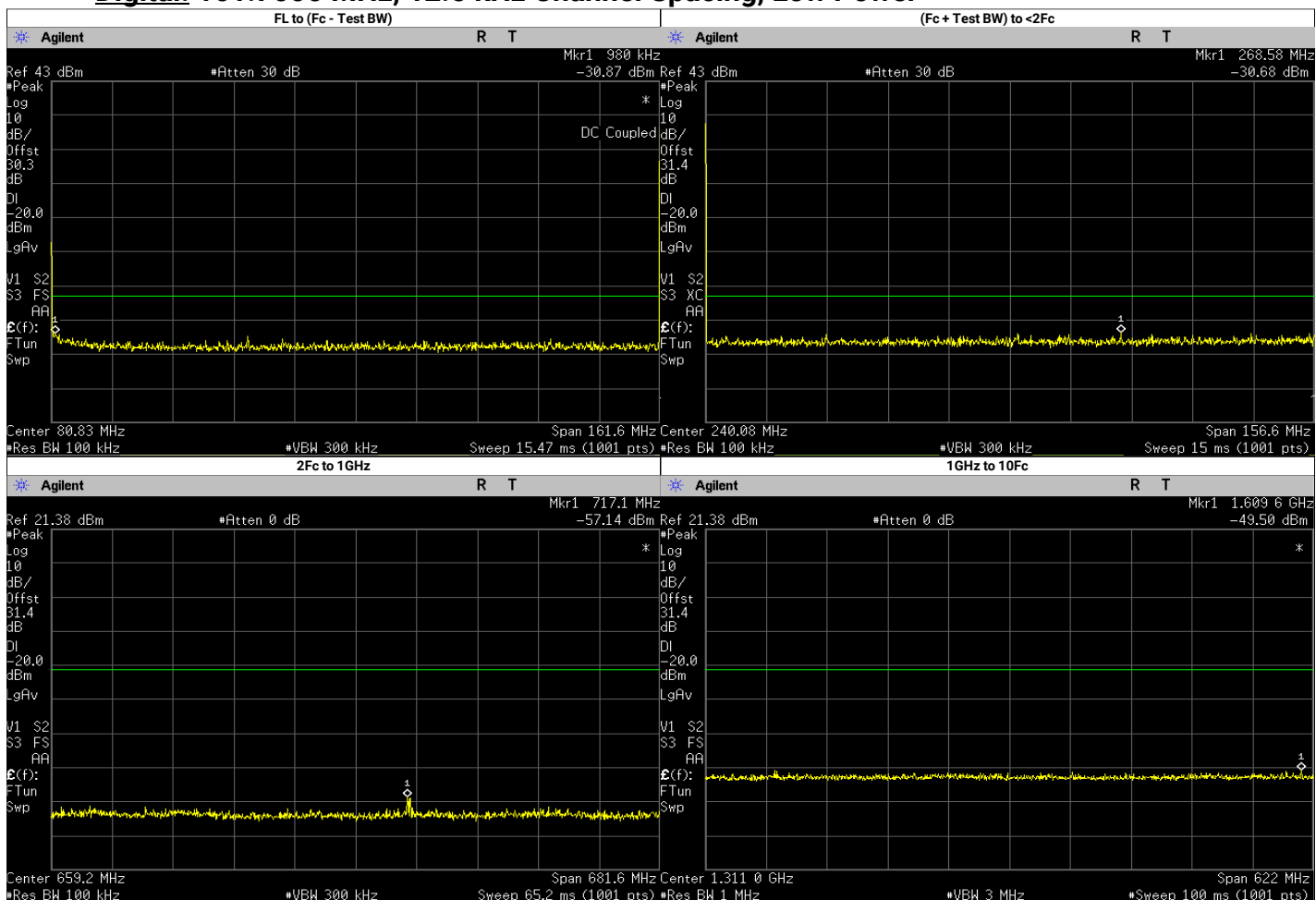
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.9600	-30.9230	-20	PASS
(Fc + Test BW) to <2Fc	291.8431	-30.7400	-20	PASS
2Fc to 1GHz	870.6748	-59.7300	-20	PASS
	317.1000	-62.3431	-20	PASS
	475.6500	-61.1889	-20	PASS
	634.2000	-62.6502	-20	PASS
	792.7500	-63.2007	-20	PASS
	951.3000	-62.5763	-20	PASS
1GHz to 10Fc	1132.8620	-49.9200	-20	PASS
	1109.8500	-52.1959	-20	PASS
	1268.4000	-51.3333	-20	PASS
	1426.9500	-51.7918	-20	PASS
	1585.5000	-51.6660	-20	PASS

Digital: 161.7000 MHz, 12.5 kHz Channel Spacing, Max Power



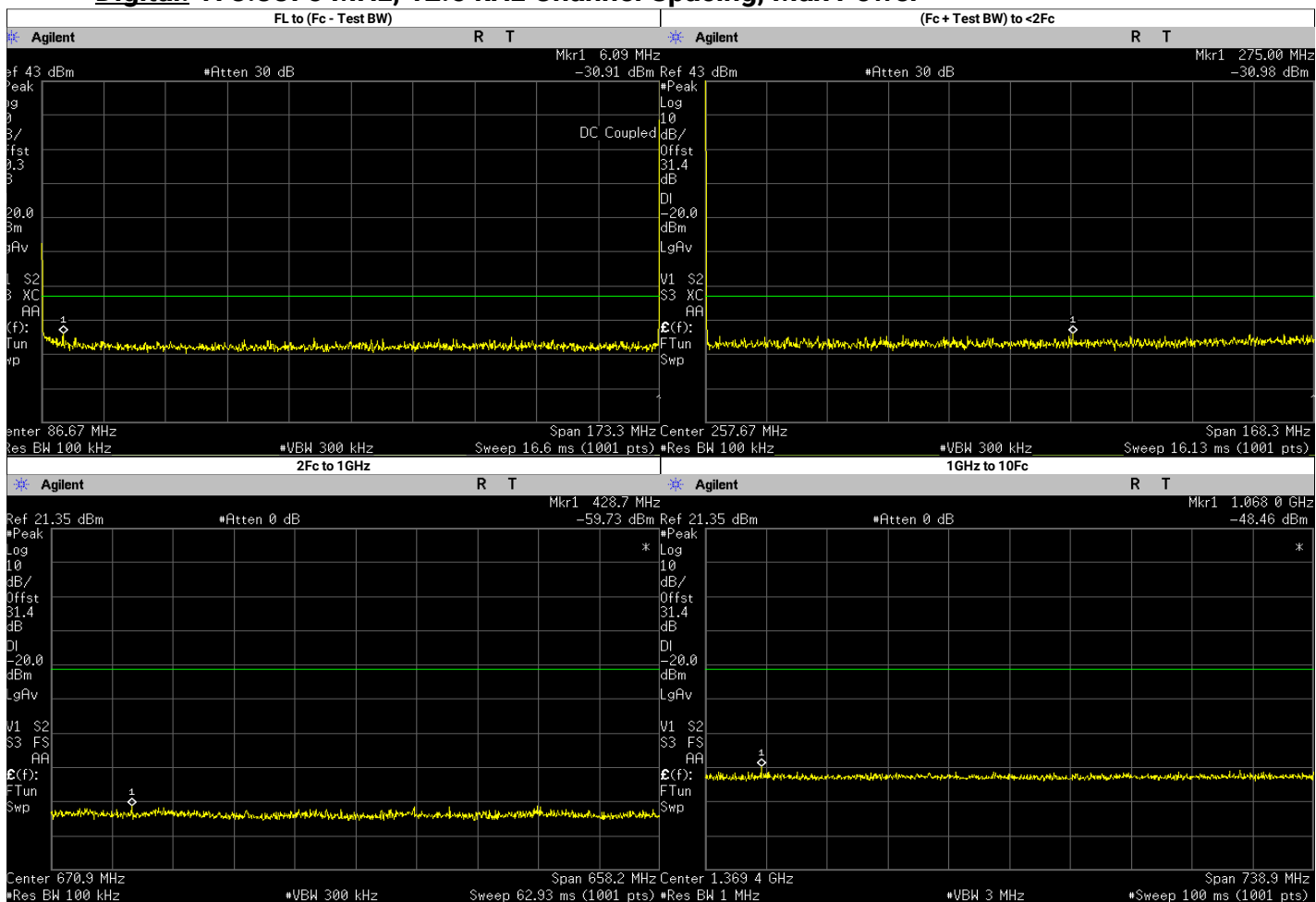
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	1.6500	-31.5900	-20	PASS
(Fc + Test BW) to <2Fc	302.0909	-30.3600	-20	PASS
2Fc to 1GHz	336.8032	-60.2500	-20	PASS
	323.4000	-62.3730	-20	PASS
	485.1000	-62.8115	-20	PASS
	646.8000	-63.4289	-20	PASS
	808.5000	-63.3134	-20	PASS
	970.2000	-63.0373	-20	PASS
1GHz to 10Fc	1584.6800	-49.9800	-20	PASS
	1131.9000	-52.4348	-20	PASS
	1293.6000	-52.1325	-20	PASS
	1455.3000	-51.5585	-20	PASS
	1617.0000	-51.6393	-20	PASS

Digital: 161.7000 MHz, 12.5 kHz Channel Spacing, Low Power



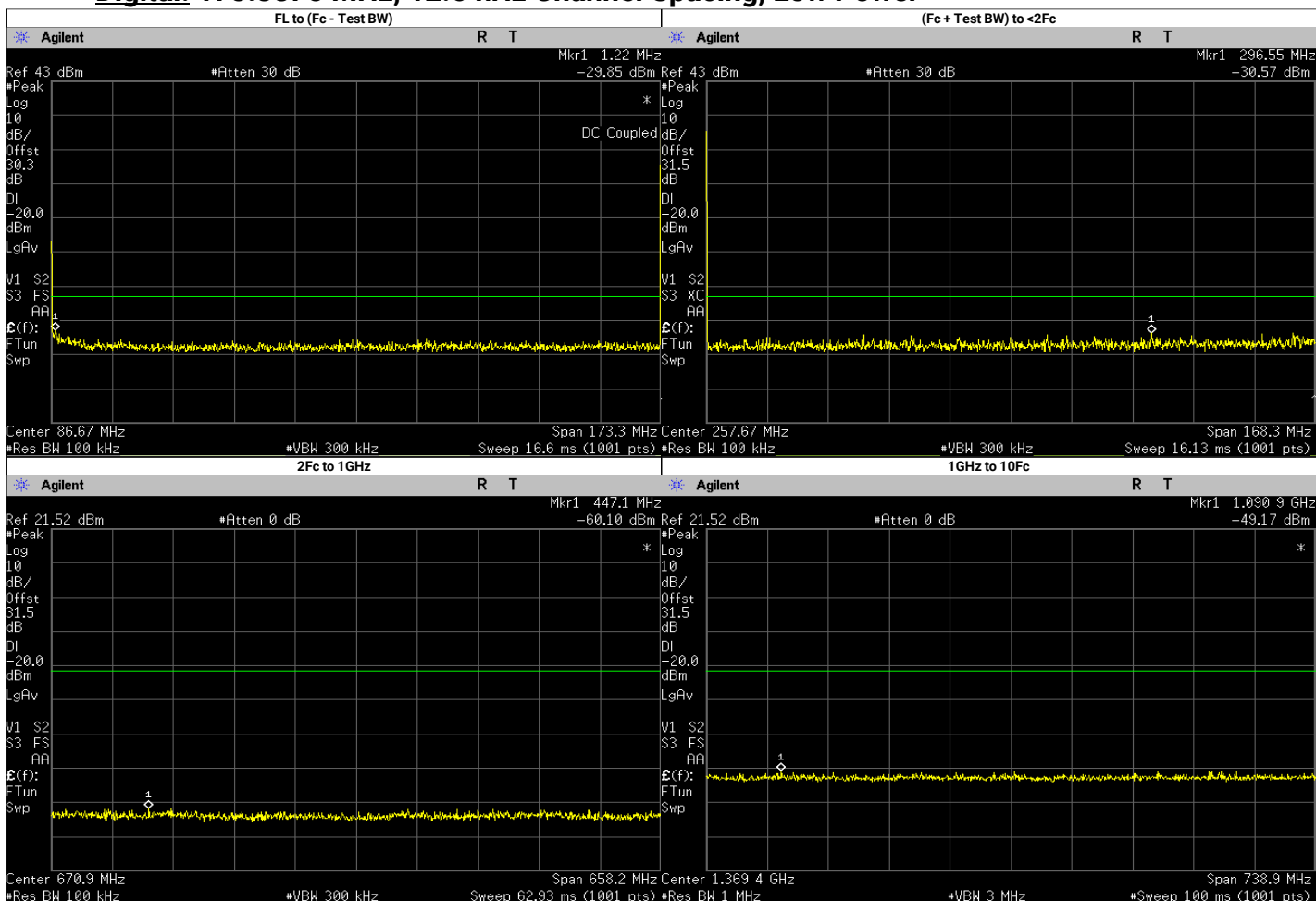
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	0.9800	-30.8740	-20	PASS
(Fc + Test BW) to <2Fc	268.5800	-30.6800	-20	PASS
2Fc to 1GHz	717.1360	-57.1400	-20	PASS
	323.4000	-62.3684	-20	PASS
	485.1000	-62.4449	-20	PASS
	646.8000	-62.5378	-20	PASS
	808.5000	-62.3694	-20	PASS
	970.2000	-63.4471	-20	PASS
1GHz to 10Fc	1609.5600	-49.5000	-20	PASS
	1131.9000	-51.6819	-20	PASS
	1293.6000	-51.9250	-20	PASS
	1455.3000	-51.5409	-20	PASS
	1617.0000	-51.1550	-20	PASS

Digital: 173.3875 MHz, 12.5 kHz Channel Spacing, Max Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	6.0900	-30.9100	-20	PASS
(Fc + Test BW) to <2Fc	275.0039	-30.9800	-20	PASS
2Fc to 1GHz	428.6607	-59.7300	-20	PASS
	346.7750	-61.7142	-20	PASS
	520.1625	-62.7878	-20	PASS
	693.5500	-63.0651	-20	PASS
	866.9375	-60.2006	-20	PASS
1GHz to 10Fc	1067.9760	-48.4600	-20	PASS
	1040.3250	-51.8635	-20	PASS
	1213.7130	-51.8001	-20	PASS
	1387.1000	-51.1608	-20	PASS
	1560.4870	-51.4550	-20	PASS
	1733.8750	-51.1493	-20	PASS

Digital: 173.3875 MHz, 12.5 kHz Channel Spacing, Low Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	1.2200	-29.8480	-20	PASS
(Fc + Test BW) to <2Fc	296.5500	-30.5700	-20	PASS
2Fc to 1GHz	447.0910	-60.1000	-20	PASS
	346.7750	-61.5264	-20	PASS
	520.1625	-62.4219	-20	PASS
	693.5500	-62.5798	-20	PASS
	866.9375	-62.1148	-20	PASS
1GHz to 10Fc	1090.8820	-49.1700	-20	PASS
	1040.3250	-51.0549	-20	PASS
	1213.7130	-50.7549	-20	PASS
	1387.1000	-51.2043	-20	PASS
	1560.4870	-51.4893	-20	PASS
	1733.8750	-50.9404	-20	PASS

6.9.4. Test Limit

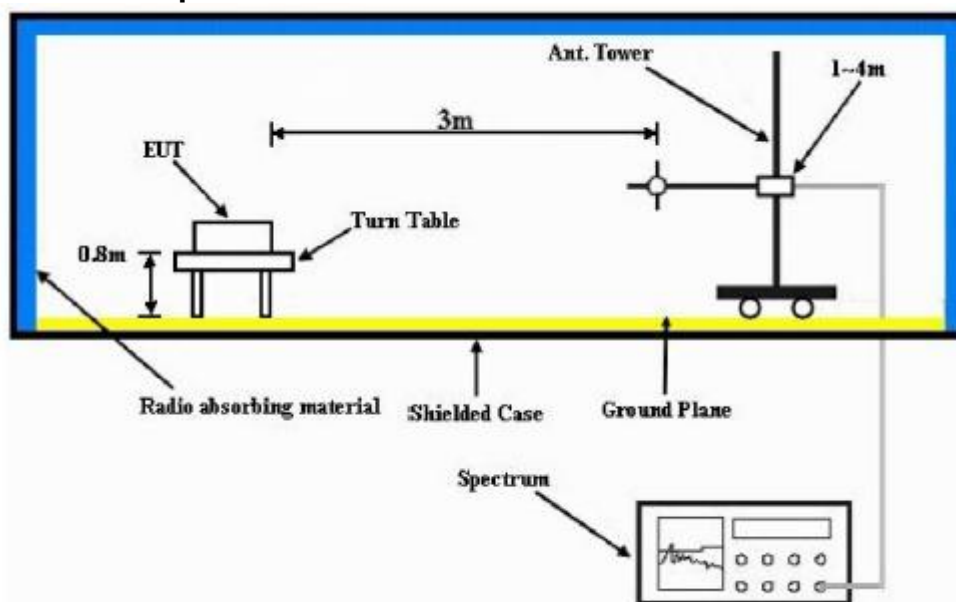
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

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

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

6.10. Radiated Spurious Emission

6.10.1. Test Setup



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

6.10.2. Test Result (Analog)

Motorola Solutions

SAC TX Radiated Emission : 1467N00-EMC-00037

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1523
Battery :	-	Charger :	-
Accessory :	RMN5050A,RSN4005A,PS000280A02,PMLN8805A, 3087791G01		
Test Mode :	LMR Analog - FM	Channel SP/Bandwidth (kHz) :	25.0000
Test Frequency (MHz) :	138.0125	Power :	1.00 Watt/LOW
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	276.0250	-63.08 **	-13.00	50.08
Horizontal	Peak	276.0250	-63.73 **	-13.00	50.73
Vertical	Peak	414.0375	-59.06 **	-13.00	46.06
Horizontal	Peak	414.0375	-57.73 **	-13.00	44.73
Vertical	Peak	552.0500	-53.19 **	-13.00	40.19
Horizontal	Peak	552.0500	-52.33 **	-13.00	39.33
Vertical	Peak	690.0625	-54.09 **	-13.00	41.09
Horizontal	Peak	690.0625	-52.95 **	-13.00	39.95
Vertical	Peak	828.0750	-51.90 **	-13.00	38.90
Horizontal	Peak	828.0750	-52.53 **	-13.00	39.53
Vertical	Peak	966.0875	-52.04 **	-13.00	39.04
Horizontal	Peak	966.0875	-52.21 **	-13.00	39.21
Vertical	Peak	1104.1000	-65.65 **	-13.00	52.65
Horizontal	Peak	1104.1000	-65.76 **	-13.00	52.76
Vertical	Peak	1242.1130	-65.45 **	-13.00	52.45
Horizontal	Peak	1242.1130	-65.25 **	-13.00	52.25
Vertical	Peak	1380.1250	-64.53 **	-13.00	51.53
Horizontal	Peak	1380.1250	-63.53 **	-13.00	50.53

Temperature (°C) :	22.9	Humidity (%) :	64.2
Test Performed by :	Firdaus & Haniff	Test Date :	Sat, 4 Apr, 2026
System MU :	4.03 dB		

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

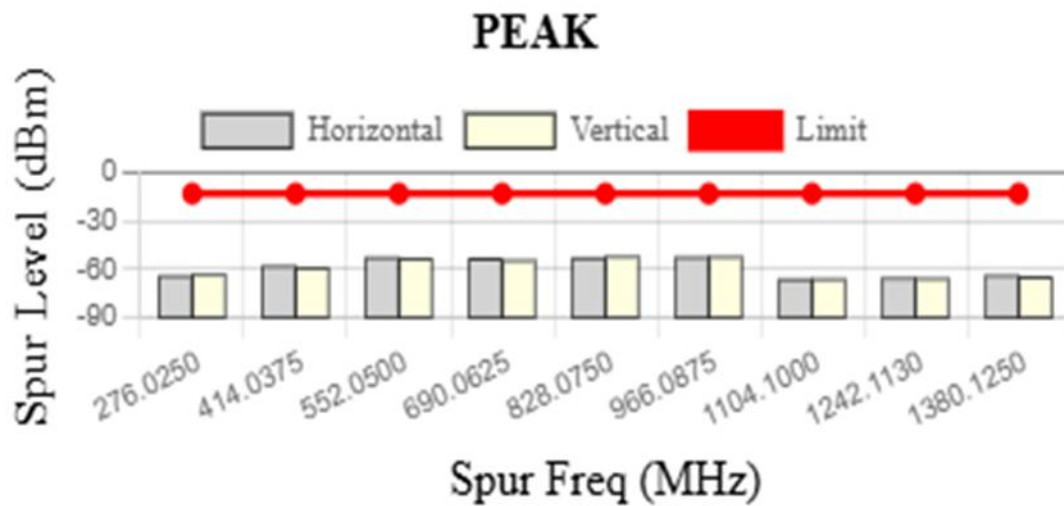
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1467N00-EMC-00037

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1523
Battery :	-	Charger :	-
Accessory :	RMN5050A,RSN4005A,PS000280A02,PMLN8805A, 3087791G01		
Test Mode :	LMR Analog - FM	Channel SP/Bandwidth (kHz) :	25.0000
Test Frequency (MHz) :	138.0125	Power :	30.00 Watt/MAX
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	276.0250	-59.88 **	-13.00	46.88
Horizontal	Peak	276.0250	-59.88 **	-13.00	46.88
Vertical	Peak	414.0375	-58.01 **	-13.00	45.01
Horizontal	Peak	414.0375	-58.05 **	-13.00	45.05
Vertical	Peak	552.0500	-52.41 **	-13.00	39.41
Horizontal	Peak	552.0500	-53.10 **	-13.00	40.10
Vertical	Peak	690.0625	-53.37 **	-13.00	40.37
Horizontal	Peak	690.0625	-54.16 **	-13.00	41.16
Vertical	Peak	828.0750	-53.11 **	-13.00	40.11
Horizontal	Peak	828.0750	-52.87 **	-13.00	39.87
Vertical	Peak	966.0875	-52.23 **	-13.00	39.23
Horizontal	Peak	966.0875	-51.57 **	-13.00	38.57
Vertical	Peak	1104.1000	-67.00 **	-13.00	54.00
Horizontal	Peak	1104.1000	-66.23 **	-13.00	53.23
Vertical	Peak	1242.1130	-64.63 **	-13.00	51.63
Horizontal	Peak	1242.1130	-65.41 **	-13.00	52.41
Vertical	Peak	1380.1250	-64.47 **	-13.00	51.47
Horizontal	Peak	1380.1250	-64.41 **	-13.00	51.41

Temperature (°C) :	22.9	Humidity (%) :	64.2
Test Performed by :	Firdaus & Haniff	Test Date :	Sat, 4 Apr, 2026
System MU :	4.03 dB		

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

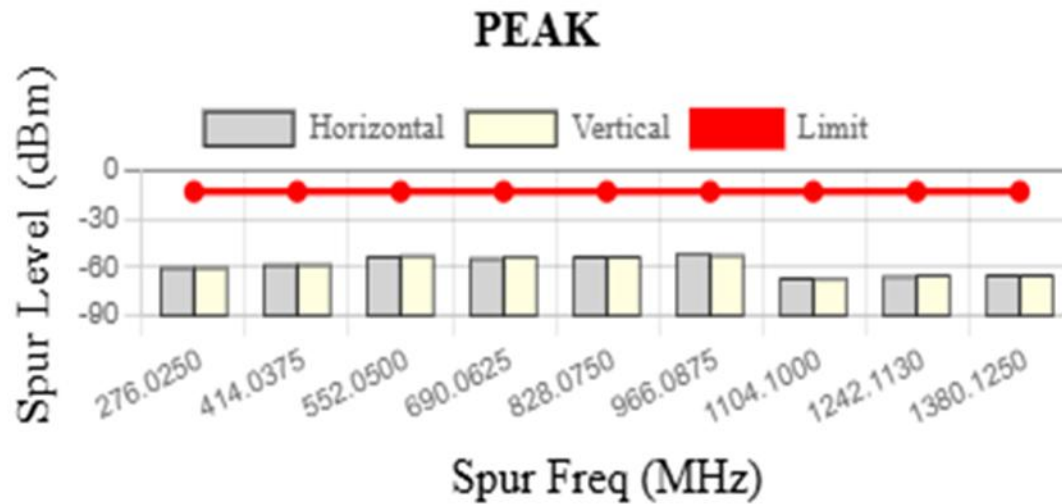
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1467N00-EMC-00037

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1523
Battery :	-	Charger :	-
Accessory :	RMN5050A,RSN4005A,PS000280A02,PMLN8805A, 3087791G01		
Test Mode :	LMR Analog - FM	Channel SP/Bandwidth (kHz) :	25.0000
Test Frequency (MHz) :	158.5500	Power :	1.00 Watt/LOW
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	91.4720	-56.18 *	-13.00	43.18
Horizontal	Peak	91.4720	-55.25 *	-13.00	42.25
Vertical	Peak	317.1000	-62.12 **	-13.00	49.12
Horizontal	Peak	317.1000	-62.62 **	-13.00	49.62
Vertical	Peak	475.6500	-56.97 **	-13.00	43.97
Horizontal	Peak	475.6500	-56.94 **	-13.00	43.94
Vertical	Peak	634.2000	-53.68 **	-13.00	40.68
Horizontal	Peak	634.2000	-54.47 **	-13.00	41.47
Vertical	Peak	792.7500	-53.18 **	-13.00	40.18
Horizontal	Peak	792.7500	-51.95 **	-13.00	38.95
Vertical	Peak	951.3000	-51.76 **	-13.00	38.76
Horizontal	Peak	951.3000	-51.71 **	-13.00	38.71
Vertical	Peak	1109.8500	-65.68 **	-13.00	52.68
Horizontal	Peak	1109.8500	-65.97 **	-13.00	52.97
Vertical	Peak	1268.4000	-64.41 **	-13.00	51.41
Horizontal	Peak	1268.4000	-63.94 **	-13.00	50.94
Vertical	Peak	1426.9500	-63.72 **	-13.00	50.72
Horizontal	Peak	1426.9500	-64.57 **	-13.00	51.57
Vertical	Peak	1585.5000	-63.67 **	-13.00	50.67
Horizontal	Peak	1585.5000	-63.94 **	-13.00	50.94

Temperature (°C) :	22.9	Humidity (%) :	64.2
Test Performed by :	Firdaus & Haniff	Test Date :	Sat, 4 Apr, 2026
System MU :	4.03 dB		

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

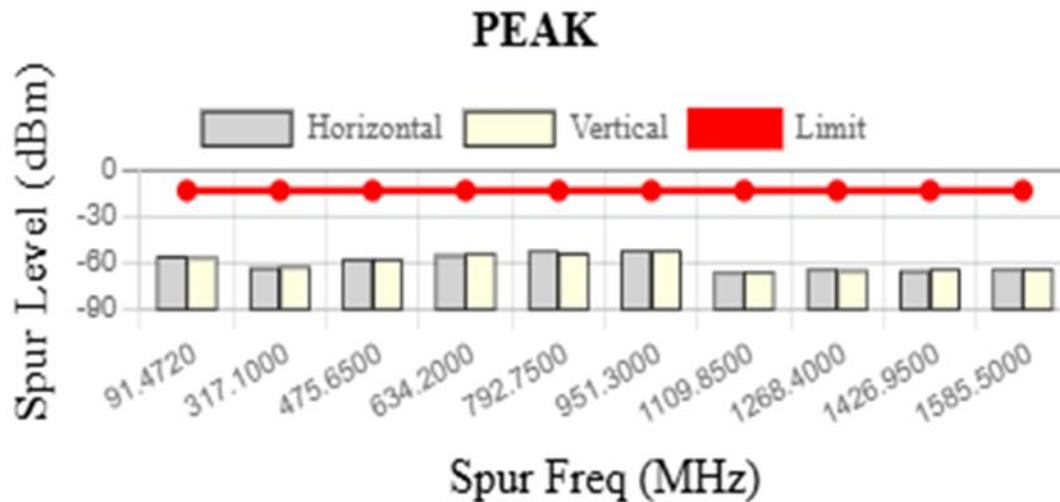
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1467N00-EMC-00037

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1523
Battery :	-	Charger :	-
Accessory :	RMN5050A,RSN4005A,PS000280A02,PMLN8805A, 3087791G01		
Test Mode :	LMR Analog - FM	Channel SP/Bandwidth (kHz) :	25.0000
Test Frequency (MHz) :	158.5500	Power :	30.00 Watt/MAX
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	91.9220	-55.52 *	-13.00	42.52
Horizontal	Peak	91.9220	-55.11 *	-13.00	42.11
Vertical	Peak	317.1000	-61.18 **	-13.00	48.18
Horizontal	Peak	317.1000	-60.99 **	-13.00	47.99
Vertical	Peak	475.6500	-56.76 **	-13.00	43.76
Horizontal	Peak	475.6500	-56.51 **	-13.00	43.51
Vertical	Peak	634.2000	-53.07 **	-13.00	40.07
Horizontal	Peak	634.2000	-53.85 **	-13.00	40.85
Vertical	Peak	792.7500	-52.39 **	-13.00	39.39
Horizontal	Peak	792.7500	-53.11 **	-13.00	40.11
Vertical	Peak	951.3000	-52.31 **	-13.00	39.31
Horizontal	Peak	951.3000	-52.12 **	-13.00	39.12
Vertical	Peak	1109.8500	-66.24 **	-13.00	53.24
Horizontal	Peak	1109.8500	-66.47 **	-13.00	53.47
Vertical	Peak	1268.4000	-64.89 **	-13.00	51.89
Horizontal	Peak	1268.4000	-64.49 **	-13.00	51.49
Vertical	Peak	1426.9500	-63.95 **	-13.00	50.95
Horizontal	Peak	1426.9500	-64.29 **	-13.00	51.29
Vertical	Peak	1585.5000	-63.09 **	-13.00	50.09
Horizontal	Peak	1585.5000	-63.44 **	-13.00	50.44

Temperature (°C) :	22.9	Humidity (%) :	64.2
Test Performed by :	Firdaus & Haniff	Test Date :	Sat, 4 Apr, 2026
System MU :	4.03 dB		

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

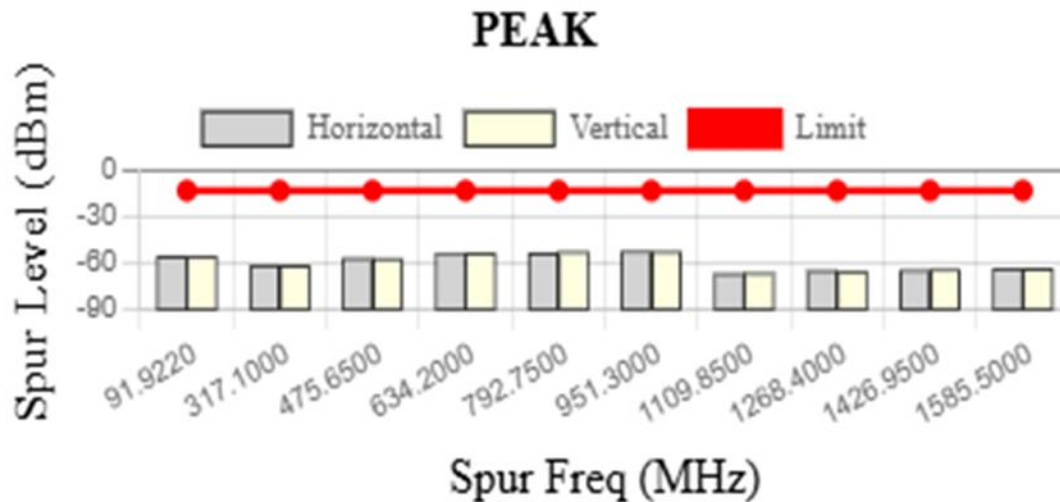
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1467N00-EMC-00037

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1523
Battery :	-	Charger :	-
Accessory :	RMN5050A,RSN4005A,PS000280A02,PMLN8805A, 3087791G01		
Test Mode :	LMR Analog - FM	Channel SP/Bandwidth (kHz) :	25.0000
Test Frequency (MHz) :	161.7000	Power :	1.00 Watt/LOW
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	93.2220	-54.95 *	-13.00	41.95
Horizontal	Peak	93.2220	-55.04 *	-13.00	42.04
Vertical	Peak	323.4000	-61.04 **	-13.00	48.04
Horizontal	Peak	323.4000	-61.59 **	-13.00	48.59
Vertical	Peak	485.1000	-55.64 **	-13.00	42.64
Horizontal	Peak	485.1000	-56.34 **	-13.00	43.34
Vertical	Peak	646.8000	-53.18 **	-13.00	40.18
Horizontal	Peak	646.8000	-53.75 **	-13.00	40.75
Vertical	Peak	808.5000	-51.94 **	-13.00	38.94
Horizontal	Peak	808.5000	-52.90 **	-13.00	39.90
Vertical	Peak	970.2000	-51.71 **	-13.00	38.71
Horizontal	Peak	970.2000	-52.25 **	-13.00	39.25
Vertical	Peak	1131.9000	-66.03 **	-13.00	53.03
Horizontal	Peak	1131.9000	-65.01 **	-13.00	52.01
Vertical	Peak	1293.6000	-64.68 **	-13.00	51.68
Horizontal	Peak	1293.6000	-64.45 **	-13.00	51.45
Vertical	Peak	1455.3000	-64.02 **	-13.00	51.02
Horizontal	Peak	1455.3000	-63.63 **	-13.00	50.63
Vertical	Peak	1617.0000	-63.67 **	-13.00	50.67
Horizontal	Peak	1617.0000	-62.76 **	-13.00	49.76

Temperature (°C) :	22.9	Humidity (%) :	64.2
Test Performed by :	Firdaus & Haniff	Test Date :	Sat, 4 Apr, 2026
System MU :	4.03 dB		

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

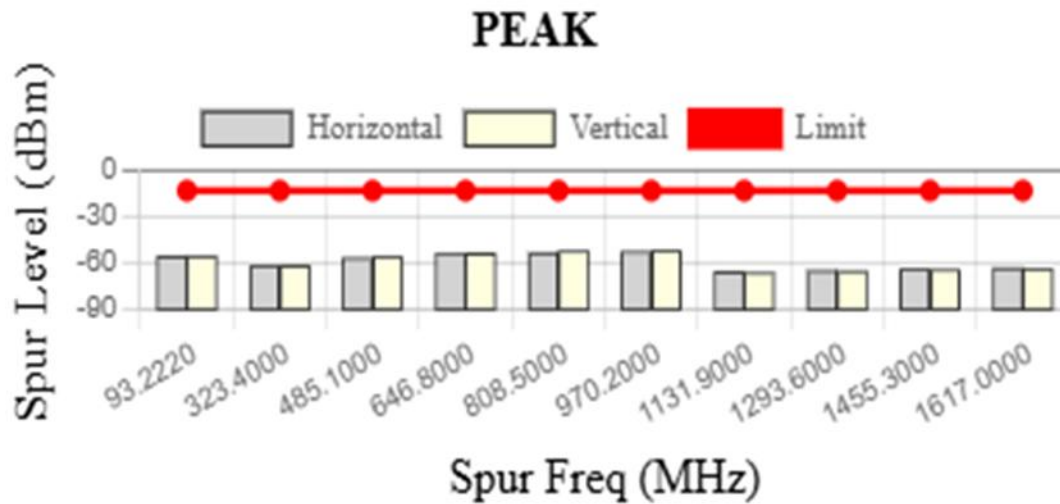
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1467N00-EMC-00037

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1523
Battery :	-	Charger :	-
Accessory :	RMN5050A,RSN4005A,PS000280A02,PMLN8805A, 3087791G01		
Test Mode :	LMR Analog - FM	Channel SP/Bandwidth (kHz) :	25.0000
Test Frequency (MHz) :	161.7000	Power :	30.00 Watt/MAX
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	91.0720	-55.70 *	-13.00	42.70
Horizontal	Peak	91.0720	-54.58 *	-13.00	41.58
Vertical	Peak	323.4000	-61.56 **	-13.00	48.56
Horizontal	Peak	323.4000	-61.63 **	-13.00	48.63
Vertical	Peak	485.1000	-56.34 **	-13.00	43.34
Horizontal	Peak	485.1000	-57.28 **	-13.00	44.28
Vertical	Peak	646.8000	-53.43 **	-13.00	40.43
Horizontal	Peak	646.8000	-53.48 **	-13.00	40.48
Vertical	Peak	808.5000	-53.35 **	-13.00	40.35
Horizontal	Peak	808.5000	-53.58 **	-13.00	40.58
Vertical	Peak	970.2000	-51.67 **	-13.00	38.67
Horizontal	Peak	970.2000	-51.38 **	-13.00	38.38
Vertical	Peak	1131.9000	-65.53 **	-13.00	52.53
Horizontal	Peak	1131.9000	-65.88 **	-13.00	52.88
Vertical	Peak	1293.6000	-65.19 **	-13.00	52.19
Horizontal	Peak	1293.6000	-64.83 **	-13.00	51.83
Vertical	Peak	1455.3000	-63.70 **	-13.00	50.70
Horizontal	Peak	1455.3000	-64.28 **	-13.00	51.28
Vertical	Peak	1617.0000	-62.99 **	-13.00	49.99
Horizontal	Peak	1617.0000	-62.63 **	-13.00	49.63

Temperature (°C) :	22.9	Humidity (%) :	64.2
Test Performed by :	Firdaus & Haniff	Test Date :	Sat, 4 Apr, 2026
System MU :	4.03 dB		

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

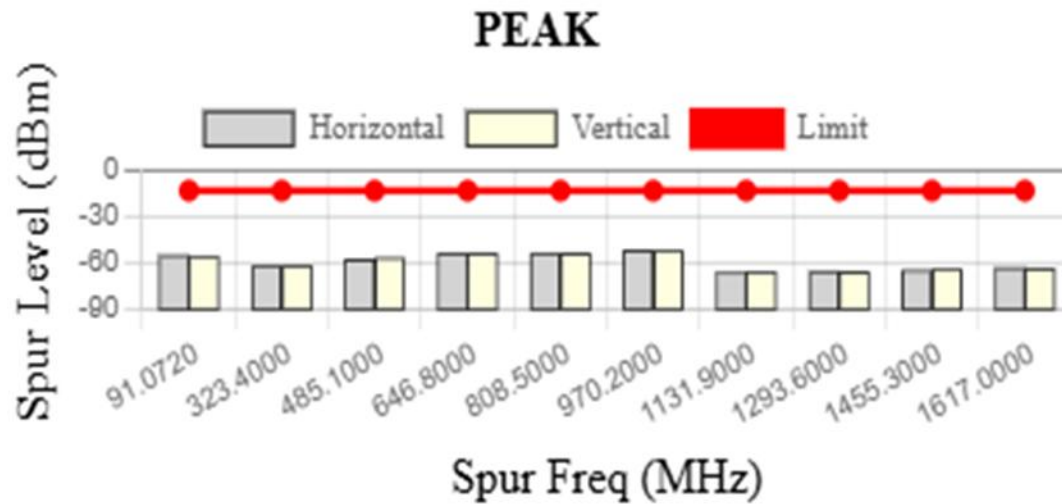
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1467N00-EMC-00037

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1523
Battery :	-	Charger :	-
Accessory :	RMN5050A,RSN4005A,PS000280A02,PMLN8805A, 3087791G01		
Test Mode :	LMR Analog - FM	Channel SP/Bandwidth (kHz) :	25.0000
Test Frequency (MHz) :	173.9875	Power :	1.00 Watt/LOW
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	90.2220	-55.41 *	-13.00	42.41
Horizontal	Peak	90.2220	-55.21 *	-13.00	42.21
Vertical	Peak	347.9750	-61.38 **	-13.00	48.38
Horizontal	Peak	347.9750	-61.85 **	-13.00	48.85
Vertical	Peak	521.9625	-56.73 **	-13.00	43.73
Horizontal	Peak	521.9625	-56.04 **	-13.00	43.04
Vertical	Peak	695.9500	-53.62 **	-13.00	40.62
Horizontal	Peak	695.9500	-53.81 **	-13.00	40.81
Vertical	Peak	869.9375	-53.39 **	-13.00	40.39
Horizontal	Peak	869.9375	-51.98 **	-13.00	38.98
Vertical	Peak	1043.9250	-65.72 **	-13.00	52.72
Horizontal	Peak	1043.9250	-66.29 **	-13.00	53.29
Vertical	Peak	1217.9120	-64.41 **	-13.00	51.41
Horizontal	Peak	1217.9120	-64.58 **	-13.00	51.58
Vertical	Peak	1391.9000	-63.84 **	-13.00	50.84
Horizontal	Peak	1391.9000	-64.02 **	-13.00	51.02
Vertical	Peak	1565.8870	-62.61 **	-13.00	49.61
Horizontal	Peak	1565.8870	-63.61 **	-13.00	50.61
Vertical	Peak	1739.8750	-62.17 **	-13.00	49.17
Horizontal	Peak	1739.8750	-62.50 **	-13.00	49.50

Temperature (°C) :	22.9	Humidity (%) :	64.2
Test Performed by :	Firdaus & Haniff	Test Date :	Sat, 4 Apr, 2026
System MU :	4.03 dB		

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

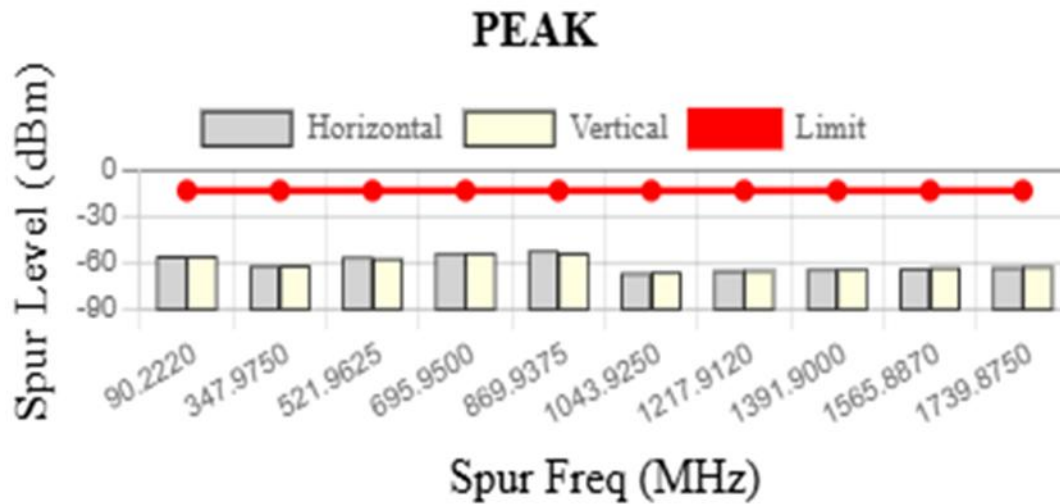
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1467N00-EMC-00037

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1523
Battery :	-	Charger :	-
Accessory :	RMN5050A,RSN4005A,PS000280A02,PMLN8805A, 3087791G01		
Test Mode :	LMR Analog - FM	Channel SP/Bandwidth (kHz) :	25.0000
Test Frequency (MHz) :	173.9875	Power :	30.00 Watt/MAX
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	94.2720	-55.57 *	-13.00	42.57
Horizontal	Peak	94.2720	-55.16 *	-13.00	42.16
Vertical	Peak	347.9750	-61.63 **	-13.00	48.63
Horizontal	Peak	347.9750	-60.61 **	-13.00	47.61
Vertical	Peak	521.9625	-55.26 **	-13.00	42.26
Horizontal	Peak	521.9625	-56.55 **	-13.00	43.55
Vertical	Peak	695.9500	-53.63 **	-13.00	40.63
Horizontal	Peak	695.9500	-54.07 **	-13.00	41.07
Vertical	Peak	869.9375	-53.07 **	-13.00	40.07
Horizontal	Peak	869.9375	-52.88 **	-13.00	39.88
Vertical	Peak	1043.9250	-65.73 **	-13.00	52.73
Horizontal	Peak	1043.9250	-66.26 **	-13.00	53.26
Vertical	Peak	1217.9120	-65.37 **	-13.00	52.37
Horizontal	Peak	1217.9120	-65.45 **	-13.00	52.45
Vertical	Peak	1391.9000	-64.36 **	-13.00	51.36
Horizontal	Peak	1391.9000	-63.90 **	-13.00	50.90
Vertical	Peak	1565.8870	-63.58 **	-13.00	50.58
Horizontal	Peak	1565.8870	-62.33 **	-13.00	49.33
Vertical	Peak	1739.8750	-60.60 **	-13.00	47.60
Horizontal	Peak	1739.8750	-61.31 **	-13.00	48.31

Temperature (°C) :	22.9	Humidity (%) :	64.2
Test Performed by :	Firdaus & Haniff	Test Date :	Sat, 4 Apr, 2026
System MU :	4.03 dB		

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

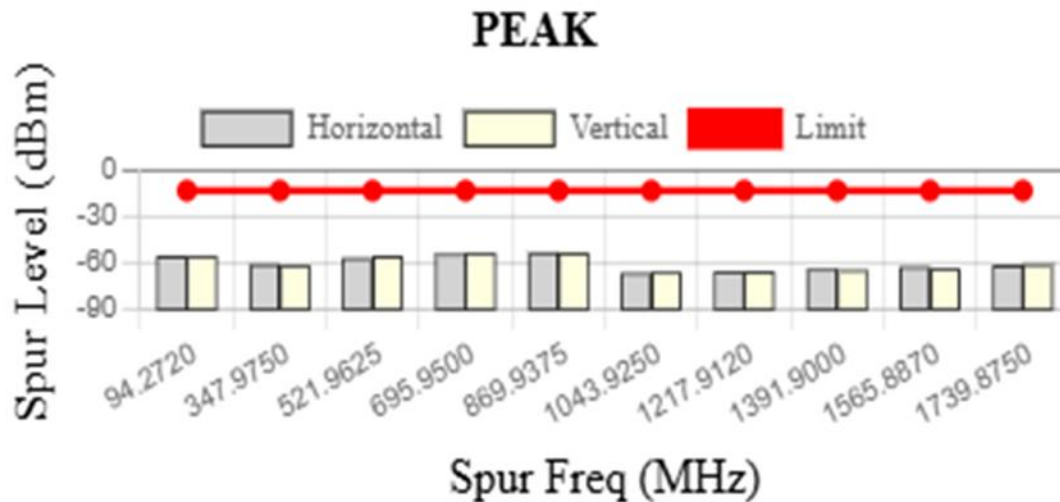
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



6.10.3. Test Result (Digital)

Motorola Solutions

SAC TX Radiated Emission : 1467N00-EMC-00037

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1523
Battery :	-	Charger :	-
Accessory :	RMN5050A,RSN4005A,PS000280A02,PMLN8805A, 3087791G01		
Test Mode :	LMR Digital - 4FSK	Channel SP/Bandwidth (kHz) :	12.5000
Test Frequency (MHz) :	138.0125	Power :	1.00 Watt/LOW
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	276.0250	-63.31 **	-20.00	43.31
Horizontal	Peak	276.0250	-63.22 **	-20.00	43.22
Vertical	Peak	414.0375	-58.90 **	-20.00	38.90
Horizontal	Peak	414.0375	-58.33 **	-20.00	38.33
Vertical	Peak	552.0500	-52.81 **	-20.00	32.81
Horizontal	Peak	552.0500	-52.38 **	-20.00	32.38
Vertical	Peak	690.0625	-53.33 **	-20.00	33.33
Horizontal	Peak	690.0625	-52.73 **	-20.00	32.73
Vertical	Peak	828.0750	-51.68 **	-20.00	31.68
Horizontal	Peak	828.0750	-53.53 **	-20.00	33.53
Vertical	Peak	966.0875	-51.63 **	-20.00	31.63
Horizontal	Peak	966.0875	-51.95 **	-20.00	31.95
Vertical	Peak	1104.1000	-66.09 **	-20.00	46.09
Horizontal	Peak	1104.1000	-66.60 **	-20.00	46.60
Vertical	Peak	1242.1130	-65.52 **	-20.00	45.52
Horizontal	Peak	1242.1130	-64.92 **	-20.00	44.92
Vertical	Peak	1380.1250	-64.44 **	-20.00	44.44
Horizontal	Peak	1380.1250	-64.44 **	-20.00	44.44

Temperature (°C) :	22.9	Humidity (%) :	64.2
Test Performed by :	Firdaus & Haniff	Test Date :	Sat, 4 Apr, 2026
System MU :	4.03 dB		

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

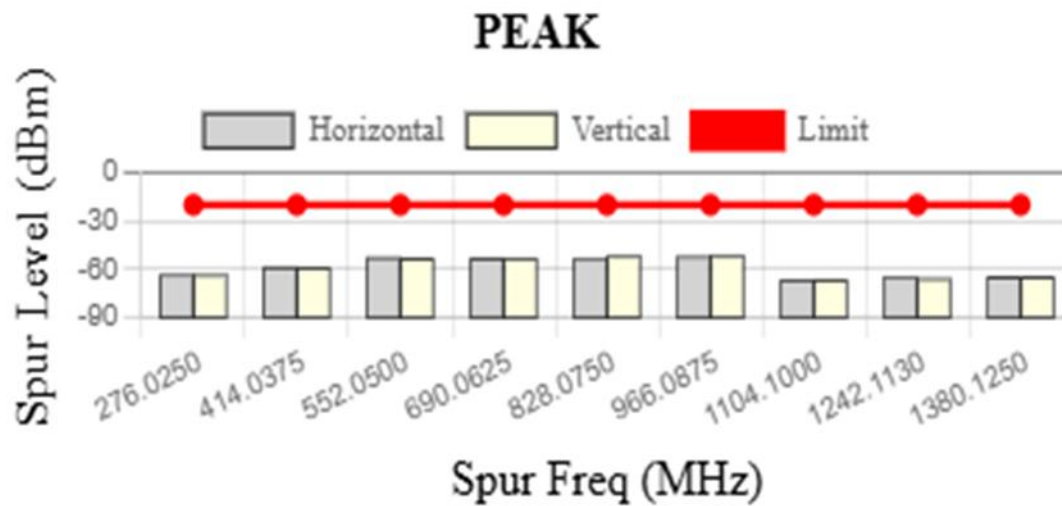
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1467N00-EMC-00037

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1523
Battery :	-	Charger :	-
Accessory :	RMN5050A,RSN4005A,PS000280A02,PMLN8805A, 3087791G01		
Test Mode :	LMR Digital - 4FSK	Channel SP/Bandwidth (kHz) :	12.5000
Test Frequency (MHz) :	138.0125	Power :	30.00 Watt/MAX
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	276.0250	-60.65 **	-20.00	40.65
Horizontal	Peak	276.0250	-60.43 **	-20.00	40.43
Vertical	Peak	414.0375	-58.22 **	-20.00	38.22
Horizontal	Peak	414.0375	-57.36 **	-20.00	37.36
Vertical	Peak	552.0500	-52.32 **	-20.00	32.32
Horizontal	Peak	552.0500	-53.19 **	-20.00	33.19
Vertical	Peak	690.0625	-52.80 **	-20.00	32.80
Horizontal	Peak	690.0625	-54.07 **	-20.00	34.07
Vertical	Peak	828.0750	-53.22 **	-20.00	33.22
Horizontal	Peak	828.0750	-53.17 **	-20.00	33.17
Vertical	Peak	966.0875	-51.24 **	-20.00	31.24
Horizontal	Peak	966.0875	-51.87 **	-20.00	31.87
Vertical	Peak	1104.1000	-66.28 **	-20.00	46.28
Horizontal	Peak	1104.1000	-65.72 **	-20.00	45.72
Vertical	Peak	1242.1130	-66.05 **	-20.00	46.05
Horizontal	Peak	1242.1130	-65.55 **	-20.00	45.55
Vertical	Peak	1380.1250	-65.13 **	-20.00	45.13
Horizontal	Peak	1380.1250	-64.16 **	-20.00	44.16

Temperature (°C) :	22.9	Humidity (%) :	64.2
Test Performed by :	Firdaus & Haniff	Test Date :	Sat, 4 Apr, 2026
System MU :	4.03 dB		

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

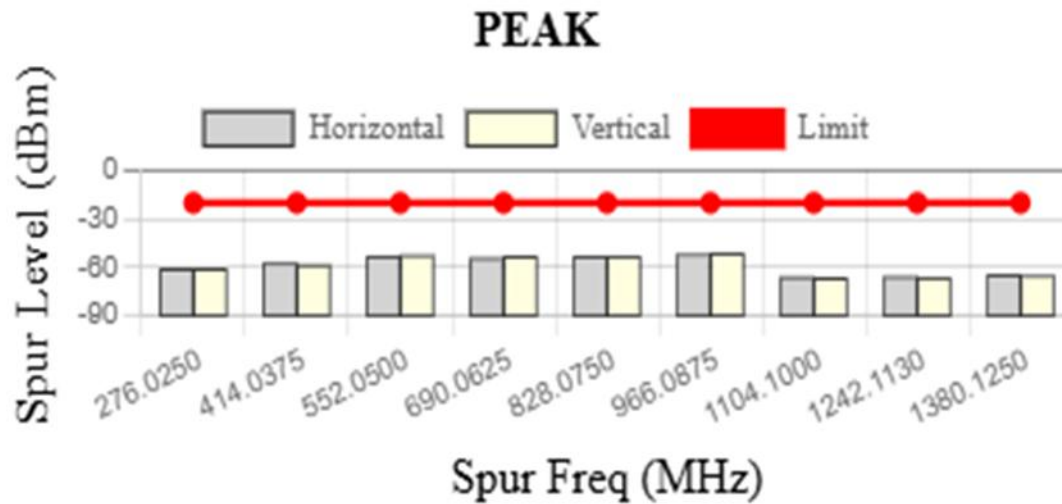
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1467N00-EMC-00037

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1523
Battery :	-	Charger :	-
Accessory :	RMN5050A,RSN4005A,PS000280A02,PMLN8805A, 3087791G01		
Test Mode :	LMR Digital - 4FSK	Channel SP/Bandwidth (kHz) :	12.5000
Test Frequency (MHz) :	158.5500	Power :	1.00 Watt/LOW
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	317.1000	-61.65 **	-20.00	41.65
Horizontal	Peak	317.1000	-60.75 **	-20.00	40.75
Vertical	Peak	475.6500	-56.03 **	-20.00	36.03
Horizontal	Peak	475.6500	-57.29 **	-20.00	37.29
Vertical	Peak	634.2000	-53.95 **	-20.00	33.95
Horizontal	Peak	634.2000	-53.24 **	-20.00	33.24
Vertical	Peak	792.7500	-53.05 **	-20.00	33.05
Horizontal	Peak	792.7500	-52.63 **	-20.00	32.63
Vertical	Peak	951.3000	-51.77 **	-20.00	31.77
Horizontal	Peak	951.3000	-52.59 **	-20.00	32.59
Vertical	Peak	1109.8500	-65.77 **	-20.00	45.77
Horizontal	Peak	1109.8500	-66.41 **	-20.00	46.41
Vertical	Peak	1268.4000	-64.60 **	-20.00	44.60
Horizontal	Peak	1268.4000	-63.94 **	-20.00	43.94
Vertical	Peak	1426.9500	-64.22 **	-20.00	44.22
Horizontal	Peak	1426.9500	-63.92 **	-20.00	43.92
Vertical	Peak	1585.5000	-62.92 **	-20.00	42.92
Horizontal	Peak	1585.5000	-62.23 **	-20.00	42.23

Temperature (°C) :	22.9	Humidity (%) :	64.2
Test Performed by :	Firdaus & Haniff	Test Date :	Sat, 4 Apr, 2026
System MU :	4.03 dB		

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

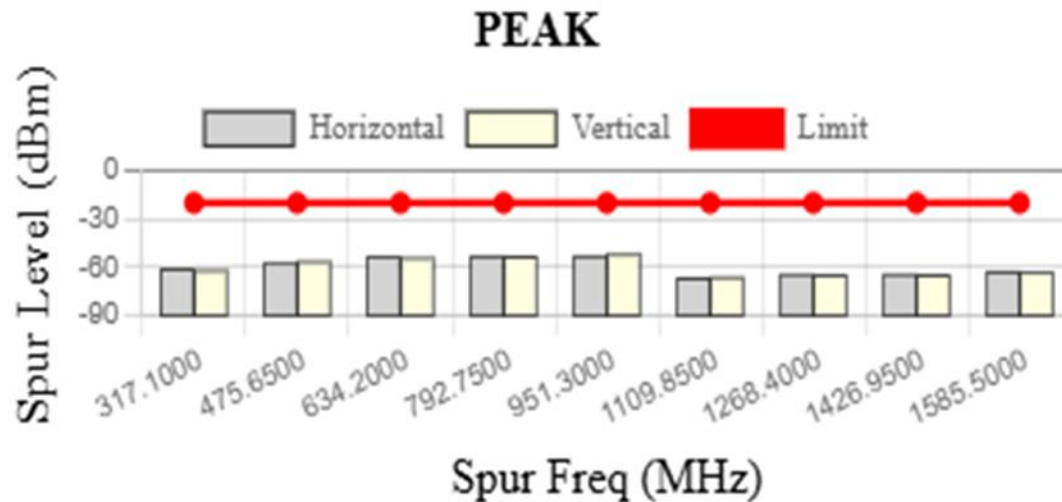
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1467N00-EMC-00037

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1523
Battery :	-	Charger :	-
Accessory :	RMN5050A,RSN4005A,PS000280A02,PMLN8805A, 3087791G01		
Test Mode :	LMR Digital - 4FSK	Channel SP/Bandwidth (kHz) :	12.5000
Test Frequency (MHz) :	158.5500	Power :	30.00 Watt/MAX
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	317.1000	-60.64 **	-20.00	40.64
Horizontal	Peak	317.1000	-60.55 **	-20.00	40.55
Vertical	Peak	475.6500	-56.46 **	-20.00	36.46
Horizontal	Peak	475.6500	-56.24 **	-20.00	36.24
Vertical	Peak	634.2000	-53.61 **	-20.00	33.61
Horizontal	Peak	634.2000	-53.09 **	-20.00	33.09
Vertical	Peak	792.7500	-52.71 **	-20.00	32.71
Horizontal	Peak	792.7500	-51.40 **	-20.00	31.40
Vertical	Peak	951.3000	-50.72 **	-20.00	30.72
Horizontal	Peak	951.3000	-52.06 **	-20.00	32.06
Vertical	Peak	1109.8500	-65.44 **	-20.00	45.44
Horizontal	Peak	1109.8500	-66.06 **	-20.00	46.06
Vertical	Peak	1268.4000	-64.57 **	-20.00	44.57
Horizontal	Peak	1268.4000	-64.41 **	-20.00	44.41
Vertical	Peak	1426.9500	-63.86 **	-20.00	43.86
Horizontal	Peak	1426.9500	-63.82 **	-20.00	43.82
Vertical	Peak	1585.5000	-63.20 **	-20.00	43.20
Horizontal	Peak	1585.5000	-63.29 **	-20.00	43.29

Temperature (°C) :	22.9	Humidity (%) :	64.2
Test Performed by :	Firdaus & Haniff	Test Date :	Sat, 4 Apr, 2026
System MU :	4.03 dB		

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

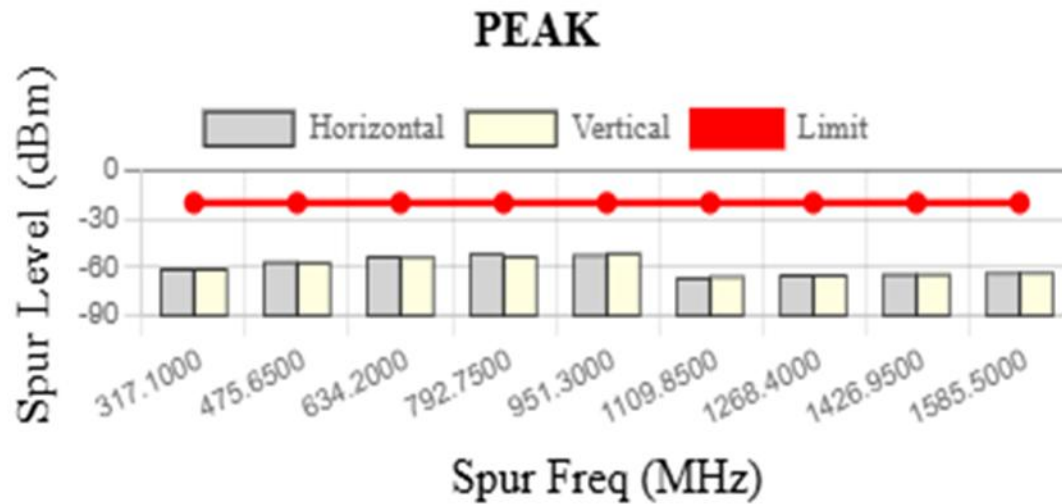
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1467N00-EMC-00037

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1523
Battery :	-	Charger :	-
Accessory :	RMN5050A,RSN4005A,PS000280A02,PMLN8805A, 3087791G01		
Test Mode :	LMR Digital - 4FSK	Channel SP/Bandwidth (kHz) :	12.5000
Test Frequency (MHz) :	161.7000	Power :	1.00 Watt/LOW
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	90.9220	-55.75 *	-20.00	35.75
Horizontal	Peak	90.9220	-55.10 *	-20.00	35.10
Vertical	Peak	323.4000	-62.07 **	-20.00	42.07
Horizontal	Peak	323.4000	-62.15 **	-20.00	42.15
Vertical	Peak	485.1000	-56.68 **	-20.00	36.68
Horizontal	Peak	485.1000	-56.74 **	-20.00	36.74
Vertical	Peak	646.8000	-51.50 **	-20.00	31.50
Horizontal	Peak	646.8000	-51.78 **	-20.00	31.78
Vertical	Peak	808.5000	-53.52 **	-20.00	33.52
Horizontal	Peak	808.5000	-53.32 **	-20.00	33.32
Vertical	Peak	970.2000	-52.21 **	-20.00	32.21
Horizontal	Peak	970.2000	-48.88 **	-20.00	28.88
Vertical	Peak	1131.9000	-65.67 **	-20.00	45.67
Horizontal	Peak	1131.9000	-65.75 **	-20.00	45.75
Vertical	Peak	1293.6000	-64.91 **	-20.00	44.91
Horizontal	Peak	1293.6000	-64.93 **	-20.00	44.93
Vertical	Peak	1455.3000	-63.22 **	-20.00	43.22
Horizontal	Peak	1455.3000	-64.10 **	-20.00	44.10
Vertical	Peak	1617.0000	-63.81 **	-20.00	43.81
Horizontal	Peak	1617.0000	-63.88 **	-20.00	43.88

Temperature (°C) :	22.9	Humidity (%) :	64.2
Test Performed by :	Firdaus & Haniff	Test Date :	Sat, 4 Apr, 2026
System MU :	4.03 dB		

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

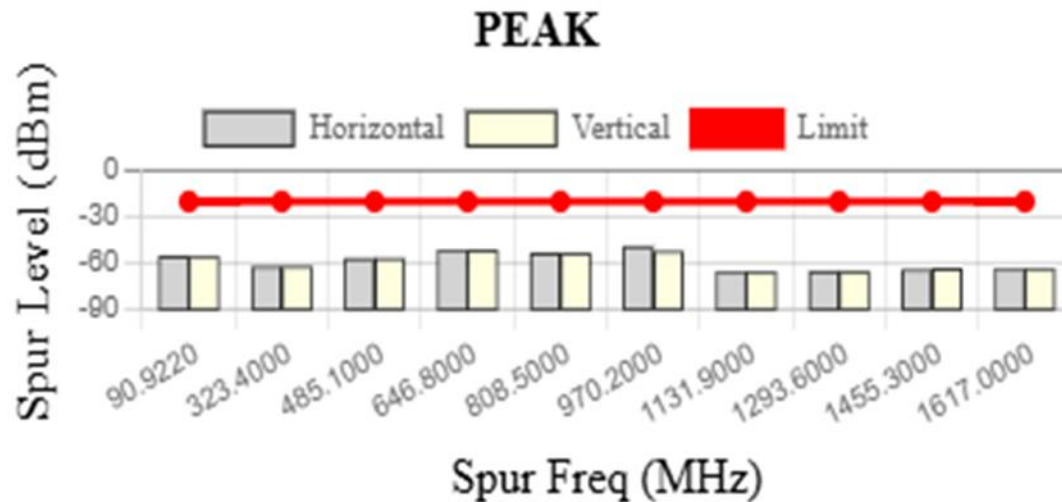
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1467N00-EMC-00037

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1523
Battery :	-	Charger :	-
Accessory :	RMN5050A,RSN4005A,PS000280A02,PMLN8805A, 3087791G01		
Test Mode :	LMR Digital - 4FSK	Channel SP/Bandwidth (kHz) :	12.5000
Test Frequency (MHz) :	161.7000	Power :	30.00 Watt/MAX
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	323.4000	-62.31 **	-20.00	42.31
Horizontal	Peak	323.4000	-61.04 **	-20.00	41.04
Vertical	Peak	485.1000	-56.02 **	-20.00	36.02
Horizontal	Peak	485.1000	-56.01 **	-20.00	36.01
Vertical	Peak	646.8000	-52.43 **	-20.00	32.43
Horizontal	Peak	646.8000	-52.98 **	-20.00	32.98
Vertical	Peak	808.5000	-52.60 **	-20.00	32.60
Horizontal	Peak	808.5000	-54.04 **	-20.00	34.04
Vertical	Peak	970.2000	-51.66 **	-20.00	31.66
Horizontal	Peak	970.2000	-51.86 **	-20.00	31.86
Vertical	Peak	1131.9000	-64.76 **	-20.00	44.76
Horizontal	Peak	1131.9000	-65.97 **	-20.00	45.97
Vertical	Peak	1293.6000	-64.27 **	-20.00	44.27
Horizontal	Peak	1293.6000	-65.00 **	-20.00	45.00
Vertical	Peak	1455.3000	-62.84 **	-20.00	42.84
Horizontal	Peak	1455.3000	-64.00 **	-20.00	44.00
Vertical	Peak	1617.0000	-63.16 **	-20.00	43.16
Horizontal	Peak	1617.0000	-63.12 **	-20.00	43.12

Temperature (°C) :	22.9	Humidity (%) :	64.2
Test Performed by :	Firdaus & Haniff	Test Date :	Sat, 4 Apr, 2026
System MU :	4.03 dB		

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

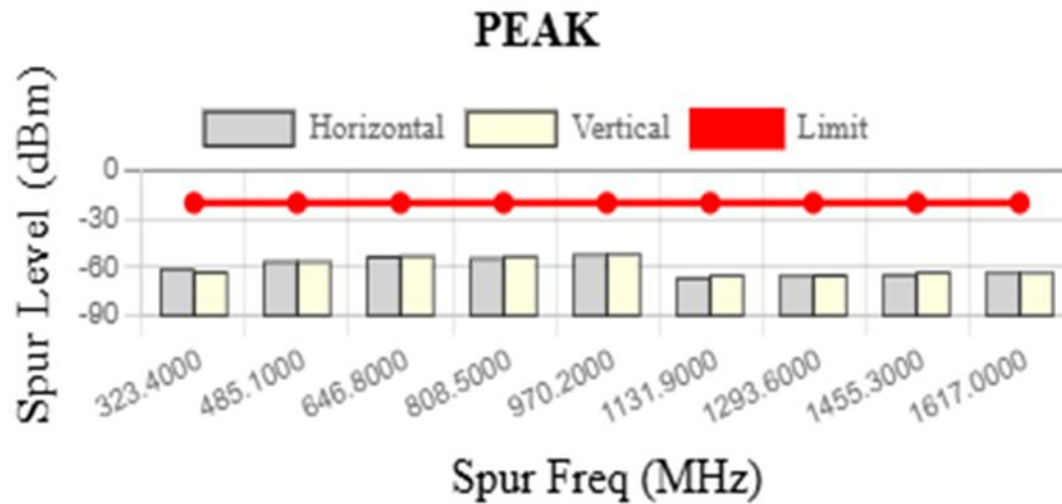
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1467N00-EMC-00037

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1523
Battery :	-	Charger :	-
Accessory :	RMN5050A,RSN4005A,PS000280A02,PMLN8805A, 3087791G01		
Test Mode :	LMR Digital - 4FSK	Channel SP/Bandwidth (kHz) :	12.5000
Test Frequency (MHz) :	173.3875	Power :	1.00 Watt/LOW
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	91.6720	-55.99 *	-20.00	35.99
Horizontal	Peak	91.6720	-55.17 *	-20.00	35.17
Vertical	Peak	346.7750	-62.26 **	-20.00	42.26
Horizontal	Peak	346.7750	-59.86 **	-20.00	39.86
Vertical	Peak	520.1625	-55.96 **	-20.00	35.96
Horizontal	Peak	520.1625	-55.21 **	-20.00	35.21
Vertical	Peak	693.5500	-53.83 **	-20.00	33.83
Horizontal	Peak	693.5500	-54.58 **	-20.00	34.58
Vertical	Peak	866.9375	-51.64 **	-20.00	31.64
Horizontal	Peak	866.9375	-52.03 **	-20.00	32.03
Vertical	Peak	1040.3250	-66.36 **	-20.00	46.36
Horizontal	Peak	1040.3250	-66.00 **	-20.00	46.00
Vertical	Peak	1213.7130	-65.57 **	-20.00	45.57
Horizontal	Peak	1213.7130	-65.30 **	-20.00	45.30
Vertical	Peak	1387.1000	-64.02 **	-20.00	44.02
Horizontal	Peak	1387.1000	-63.37 **	-20.00	43.37
Vertical	Peak	1560.4880	-62.44 **	-20.00	42.44
Horizontal	Peak	1560.4880	-63.28 **	-20.00	43.28
Vertical	Peak	1733.8750	-60.87 **	-20.00	40.87
Horizontal	Peak	1733.8750	-62.12 **	-20.00	42.12

Temperature (°C) :	22.9	Humidity (%) :	64.2
Test Performed by :	Firdaus & Haniff	Test Date :	Sat, 4 Apr, 2026
System MU :	4.03 dB		

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

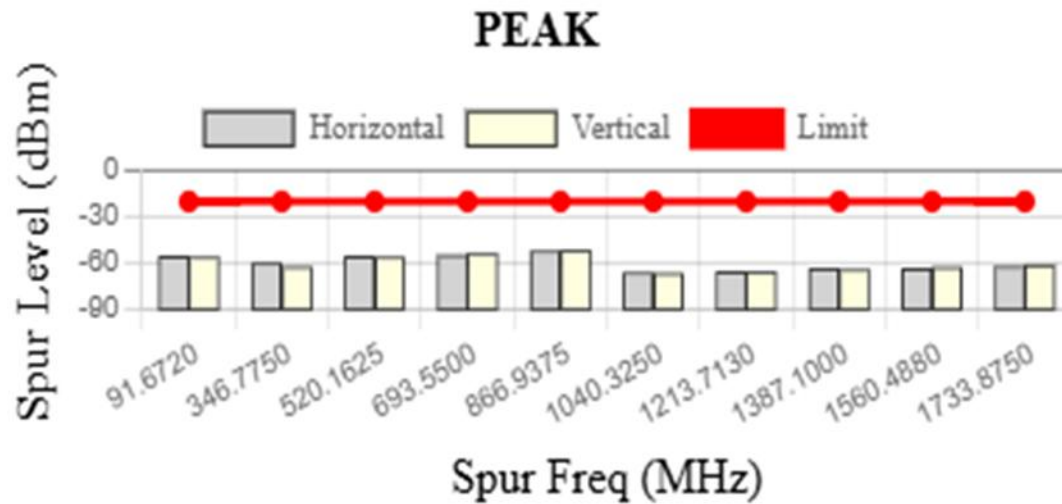
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



Motorola Solutions

SAC TX Radiated Emission : 1467N00-EMC-00037

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1523
Battery :	-	Charger :	-
Accessory :	RMN5050A,RSN4005A,PS000280A02,PMLN8805A, 3087791G01		
Test Mode :	LMR Digital - 4FSK	Channel SP/Bandwidth (kHz) :	12.5000
Test Frequency (MHz) :	173.3875	Power :	30.00 Watt/MAX
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015		

Antenna Polarization	Detector	Spur Freq (MHz)	Spur Level (dBm)	Limit (dBm)	Margin (dB)
Vertical	Peak	92.4720	-56.16 *	-20.00	36.16
Horizontal	Peak	92.4720	-54.91 *	-20.00	34.91
Vertical	Peak	346.7750	-60.85 **	-20.00	40.85
Horizontal	Peak	346.7750	-60.02 **	-20.00	40.02
Vertical	Peak	520.1625	-55.51 **	-20.00	35.51
Horizontal	Peak	520.1625	-56.49 **	-20.00	36.49
Vertical	Peak	693.5500	-53.98 **	-20.00	33.98
Horizontal	Peak	693.5500	-53.24 **	-20.00	33.24
Vertical	Peak	866.9375	-53.34 **	-20.00	33.34
Horizontal	Peak	866.9375	-51.26 **	-20.00	31.26
Vertical	Peak	1040.3250	-65.88 **	-20.00	45.88
Horizontal	Peak	1040.3250	-66.26 **	-20.00	46.26
Vertical	Peak	1213.7130	-64.30 **	-20.00	44.30
Horizontal	Peak	1213.7130	-65.05 **	-20.00	45.05
Vertical	Peak	1387.1000	-64.15 **	-20.00	44.15
Horizontal	Peak	1387.1000	-63.26 **	-20.00	43.26
Vertical	Peak	1560.4880	-64.27 **	-20.00	44.27
Horizontal	Peak	1560.4880	-62.95 **	-20.00	42.95
Vertical	Peak	1733.8750	-62.30 **	-20.00	42.30
Horizontal	Peak	1733.8750	-62.24 **	-20.00	42.24

Temperature (°C) :	22.9	Humidity (%) :	64.2
Test Performed by :	Firdaus & Haniff	Test Date :	Sat, 4 Apr, 2026
System MU :	4.03 dB		

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

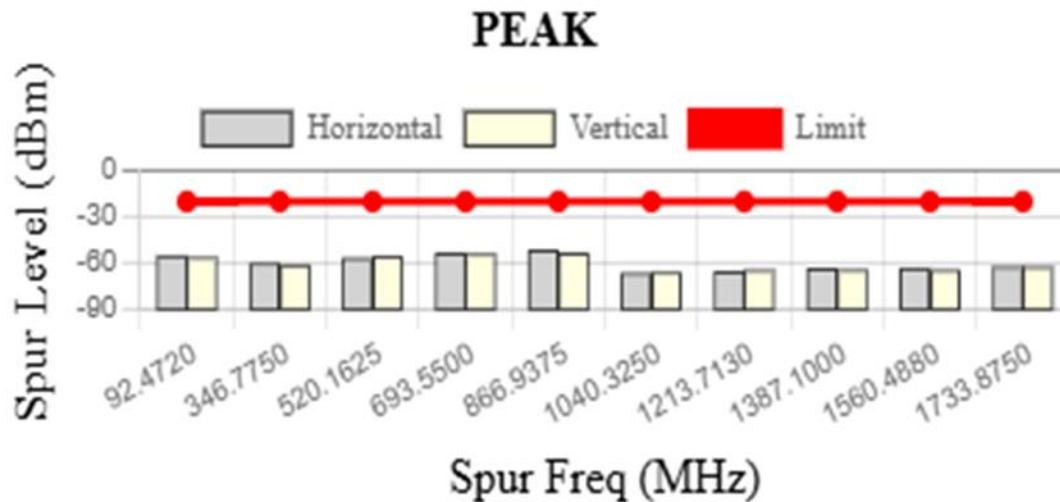
Remarks:

** 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.

NOTE :

- 1) If the peak values is less than the QP limit, the QP result deemed to comply with QP limit.
- 2) If the peak values is less than the AV limit, the average result deemed to comply with AV limit.



6.10.4. Test Limit

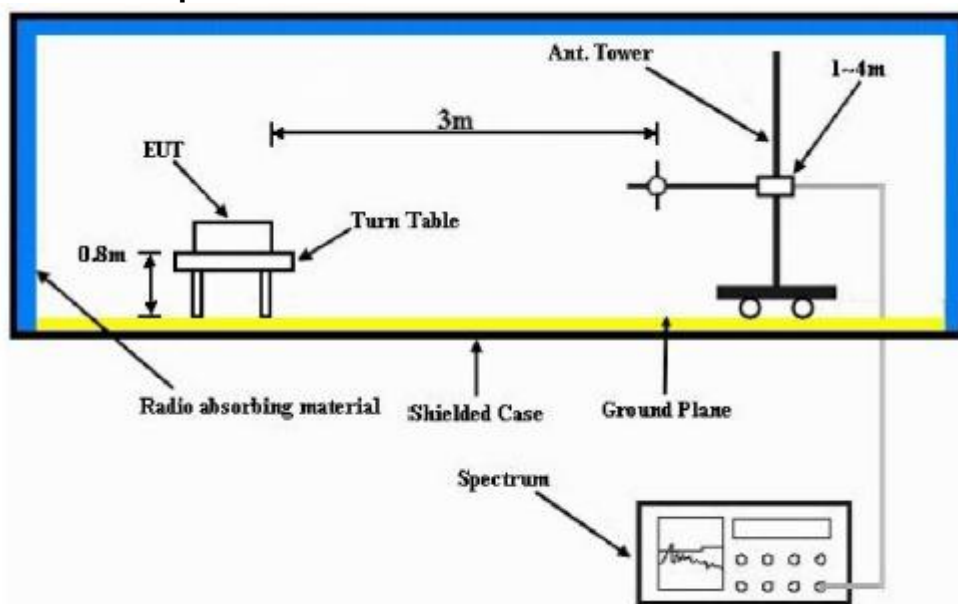
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

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

Motorola Solutions

SAC TX EIRP/ERP Measurement : 1467N00-EMC-00061

FCC ID :	AZ492FT7189	IC :	109U-92FT7189
Model No :	AAM29JNN9YA1AN	Serial No :	008TCF1523
Battery :	-	Charger :	PS000280A02-CF1
Accessory :	HAD4022A, RMN5050A-C4, PMLN8805A, RSN4005A-CF1, 3087791G01		
Test Mode :	LMR Analog - FM	Channel SP/Bandwidth (kHz) :	25.0000
Test Frequency (MHz) :	158.5500	TX Conducted Power :	18.00 Watt
Plane :	Y-Plane	Band :	-
Test Standard :	ANSI C63.26-2015	Voltage (V) :	120.00

Antenna Polarization	EIRP (dBm)	ERP (dBm)	ERP (Watts)	Limit (Watt)
Horizontal	29.6600	27.51	0.56	18.00
Vertical	43.7700	41.62	14.52	18.00

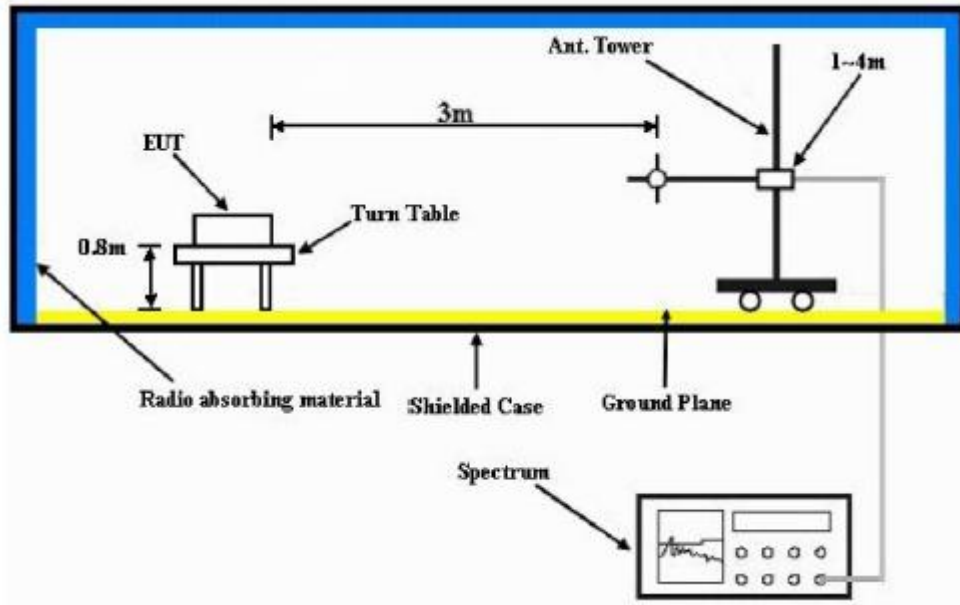
Temperature (°C) :	23.4	Humidity (%) :	68.5
Test Performed by :	Rezza & Fuad	Test Date :	Sat, 18 Apr, 2026

6.11.3. Test Limit

18W ERP limit for Part 80 Maritime [For Ship Station]

6.12. GNSS (EIRP for 1559 - 1610MHz)

6.12.1. Test Setup



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

6.12.1. Test Result
Not Applicable

6.12.2. Test Limit
For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

~ End of Test Report ~