MOTOROLA SOLUTIONS

CERTIFICATE 2518.08

SAMM 825

MOTOROLA PENANG ADV. COMM. LABORATORY
Motorola Solutions Malaysia SDN BHD,
Plot 2A, Medan Bayan Lepas,
Mukim 12 S.W.D, 11900 Bayan Lepas,
Penang, Malaysia.

FCC/ISED TEST REPORT
Report Revision : Rev.A

Date/s Tested	:	07-JAN-2025 - 24-JAN-2025
Report Issue Date	:	24-MAR-2025
Manufacturer	:	MOTOROLA SOLUTIONS INC (SCHAUMBURG)
Manufacturer Address	:	1301 E. ALGONQUIN ROAD BLDG IL02 ROOM 3035 SCHAUMBURG, IL 60196
Requestor	:	BEDFORD PATRICE
Product Type	:	Vehicle Mounted
Product Marketing Version (PMN)	:	APX8500
Hardware Version Identification Number (HVIN)	:	M37TXS9PW1AN
Frequency Band	:	762-806 MHz
Max RF Output Power	:	36 Watts
Applicant Name	:	Motorola Solutions Inc
Applicant Address	:	Plot 2A, Medan Bayan Lepas, Mukim 12 SWD, 11900 Bayan Lepas, Penang, Malaysia
ISED Registrations	:	MY0001
FCC Registrations	:	461337
Firmware Version Identification Number (FVIN)	:	R33.04.00

The equipment was tested accordance to the requirement listed below:

(LMR) FCC 47 CFR Part 22 / 74 / 90 ISED RSS- Gen Issue 5 / 119 Issue 12	PASS

Prepared By:

Farah Nur Arina
Test Personnel

Approved Signatory:

Maheshvaran A/L Rajagopal
Responsible Engineer

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Report Revision History

Revision History	Description	Date	Originator
Rev. A	Initial Report	16-Feb-2025	Farah

1.0 General Information

EUT Description:

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

The EUT contains following accessory devices and data cable:

Item	Brand	Model or P/N
2.4/5 GHZ WI-FI/BT AND GNSS BT/WiFi/GPS Antenna	MOTOROLA	AN000163A01
KEYPAD MICROPHONE	MOTOROLA	HMN4079G-R1
DC POWER CABLE	MOTOROLA	HKN4192C
10 CAN CABLE REMOTE MOUNT	MOTOROLA	HKN6170B-C1
CABLE, CH POWER AND SPEAKER	MOTOROLA	HKN6188B-3
USB CABLE, MAP CONNECTOR (6 FT)	MOTOROLA	HKN6163C-CF1
O7 CONTROL HEAD	MOTOROLA	PMHN4194C-CF16
O2/O7 REMOTE CHIB (CONTROL HEAD INTERFACE BOARD)	MOTOROLA	PMUN1057B-CF4
TRANCEIVER INTERFACE BOARD	MOTOROLA	TIB AS000016A02

General Description of Applied Standards

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

ANSI C63.26-2015

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

Deviation from standard

Not applicable as no deviation from standard test method

Antenna gain disclaimer

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

Test configuration of EUT

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

2.0 Summary of Test Results

FCC General Rules Part (47CFR)	ISED General Rules Part	Test Item	Result	Remarks	Serial number tested
2.1046(a), 22.565(f), 74.461, 80.215	RSS-119	RF Power Output	Pass		681IAN3383
-	-	Frequency Stability	NA	See NOTE 1	NA
-	-	Audio Frequency Response	NA	See NOTE 1	NA
-	-	Audio Low Pass Filter Response	NA	See NOTE 1	NA
-	-	Modulation limiting	NA	See NOTE 1	NA
-	-	Occupied Bandwidth	NA	See NOTE 1	NA
-	-	Band Edge Conducted Spurious Emission	NA	See NOTE 1	NA
-	-	Transient Frequency Behavior	NA	See NOTE 1	NA
-	-	Adjacent Channel Power	NA	See NOTE 1	NA
2.1051, 22.359, 90.210 74.462(c), 80.211(c)	RSS-119	Conducted Spurious Emissions	Pass	Worst case: -27.22 dBm	681IAN3383
2.1051, 22.359, 74.462(c), 80.211(f)	RSS-119	Radiated Spurious Emission	Pass	Worst case: -37.11 dBm (margin: 24.11 dB)	681IAL4227
-	-	GNSS (EIRP for 1559 – 1610MHz)	NA	See NOTE 1	NA
-	-	Effective Radiated Power (ERP)	NA	See NOTE 1	NA

NA → Not Applicable

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

3.0 Measurement Uncertainty

Measurement	Frequency	Expended Uncertainty (k=1.96) (±)
AC Power Line Conducted Spurious Emission	150KHz ~ 30MHz	3.48 dB
Radiated Emissions up to 1 GHz 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	4-Mar-24	4-Mar-25
POWER SUPPLY	6031A	2729A00711	8-Jun-24	8-Jun-25
POWER SENSOR	E4412A	MY50000141	16-Aug-24	16-Aug-25
POWER METER	E4416A	MY45101448	23-Aug-24	23-Aug-25
CXA SIGNAL ANALYZER	N9000B	MY60250581	8-Jun-24	8-Jun-25
AUDIO ANALYZER	U8903B	MY61070007	17-Aug-24	17-Aug-25
N to N RF Cable # 1	M17/128-RG400	NA	NA	NA
BNC to N RF Cable # 1	RG 58	NA	NA	NA
BNC to BNC RF Cable # 1	RG 58	NA	NA	NA
BNC to BNC RF Cable # 2	RG 58	NA	NA	NA
BNC to BNC RF Cable # 3	RG 58	NA	NA	NA
BNC to BNC RF Cable # 4	RG 58	NA	NA	NA
BNC to BNC RF Cable # 5	RG 58	NA	NA	NA
BNC to BNC RF Cable # 6	RG 58	NA	NA	NA
BNC to BNC RF Cable # 7	RG 58	NA	NA	NA
N to SMA RF Cable # 1	RG 58	NA	NA	NA
N to SMA RF Cable # 2	RG 58	NA	NA	NA
N to SMA RF Cable # 3	RG 58	NA	NA	NA
Aeroflex Attenuator 30dB	49-30-34-LIM	NA	NA	NA

FCC Transient ATE #1: (SW version: FCC Transient ATE_R1.2.1)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
SWITCH CONTROL UNIT	3488A	2719A36210	Not Required	Not Required
SWITCH DRIVER	11713A	3748A09090	Not Required	Not Required
POWER METER	E4416A	GB41293866	31-Dec-24	31-Dec-25
AUDIO ANALYZER	8903B	2836A05866	9-Feb-24	9-Feb-25
POWER SENSOR	E9301B	MY50180003	19-Jul-24	19-Jul-25
SPECTRUM ANALYZER	E4445A	MY46181513	4-Jul-24	4-Jul-25
ATTENUATOR/11DB	8494G	MY52300223	15-Aug-24	15-Aug-25
ATTENUATOR/110DB	8496G	MY52300088	15-Aug-24	15-Aug-25
MODULATION ANALYZER	8901B	3403A04772	18-Sep-24	18-Sep-25
POWER SUPPLY	6031A	3506A03271	26-Sep-24	26-Sep-25
SIGNAL GENERATOR	8657A	3250A05137	16-Aug-24	16-Aug-25
CXA SIGNAL ANALYZER	N9000B	MY60250716	3-Dec-24	3-Dec-25
AUDIO ANALYZER	8903B	3729A17612	14-Feb-24	14-Feb-25
N to N RF Cable # 1	SF126/11N/11N	NA	NA	NA
N to N RF Cable # 1	SF126/11N/11N	NA	NA	NA
N to N RF Cable # 2	M17/128-RG400	NA	NA	NA
N to N RF Cable # 3	M17/128-RG400	NA	NA	NA
N to N RF Cable # 4	M17/128-RG400	NA	NA	NA
N to N RF Cable # 5	M17/128-RG400	NA	NA	NA
N to N RF Cable # 6	M17/128-RG400	NA	NA	NA
N to N RF Cable # 7	M17/128-RG400	NA	NA	NA
N to N RF Cable # 8	M17/128-RG400	NA	NA	NA
N to N RF Cable # 9	M17/128-RG400	NA	NA	NA
BNC to BNC RF Cable # 1	RG 58	NA	NA	NA
BNC to BNC RF Cable # 2	RG 58	NA	NA	NA
BNC to BNC RF Cable # 3	RG 58	NA	NA	NA
BNC to BNC RF Cable # 4	RG 58	NA	NA	NA
BNC to BNC RF Cable # 5	RG 58	NA	NA	NA
BNC to BNC RF Cable # 6	RG 58	NA	NA	NA
BNC to N RF Cable # 1	RG 58	NA	NA	NA
Aeroflex Attenuator 10dB	49-10-43-LIM	NA	NA	NA
Aeroflex Attenuator 10dB	33-10-34-LIM	NA	NA	NA

FCC CONDUCTED SPUR EMISSION ATE # 1 (SW version: Conducted Spur ATE_rev 1.23.06)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
SWITCH CONTROL UNIT	3488A	2719A32735	Not Required	Not Required
INTERFACE BOX - FILTER	NA	CS001	Not Required	Not Required
POWER SUPPLY	6031A	3416A02942	24-Sep-24	24-Sep-25
SPECTRUM ANALYZER	E4445A	MY46181732	21-Nov-24	21-Nov-25
N to N RF Cable # 1	SF126/11N/11N	NA	NA	NA
N to N RF Cable # 2	SF126/11N/11N	NA	NA	NA
BNC to BNC RF Cable # 1	RG 58	NA	NA	NA
Aeroflex Attenuator 30dB	49-30-43-LIM	NA	NA	NA
Aeroflex Attenuator 10dB	33-10-34-LIM	NA	NA	NA

RADIATED EMISSION (CHAMBER 1)

Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMI TEST RECEIVER	ESIB40	100307	23-Oct-24	23-Oct-25
3m Semi-anechoic Chamber	NA	888032	Not Required	Not Required
TURNTABLE FLUSH MOUNT 2M	T-200-S	N/A	Not Required	Not Required
PROGRAMMING CONTROLLER	MF-7802BS	N/A	Not Required	Not Required
POWER SUPPLY	6674A	3126A00133	13-Mar-24	13-Mar-25
SIGNAL ANALYZER	FSV40	101432	09-Aug-24	08-Aug-25
DATA LOGGER	SDL500	A.016800	26-Jun-24	26-Jun-25
BILOG ANTENNA	CBL6112D	55546	05-Jun-24	05-Jun-25
BILOG ANTENNA	CBL 6112B	2964	08-Oct-24	08-Oct-25
DRG HORN FREQ.	SAS-571	1027	01-Jul-24	01-Jul-25
DRG HORN FREQ.	SAS-571	720	18-Apr-23	18-Apr-25
PREAMPLIFIER	PAM-0118	427	15-Nov-24	15-Nov-25
SIGNAL GENERATOR	SMB100A	181117	06-Dec-21	06-Feb-25
LOOP ANTENNA	6502	00203479	06-Mac-24	06-Mac-25
BROAD-BAND HORN ANTENNA	BBHA9170	BBHA9170255	13-Mar-24	13-Mar-25
Test Software	EMC_FCC_IC_Bluetooth_RE_Test			
Version	EMC_FCC_RE_v1.6.5			

5.0 Test Condition

5.1. Transmitter Test Conditions

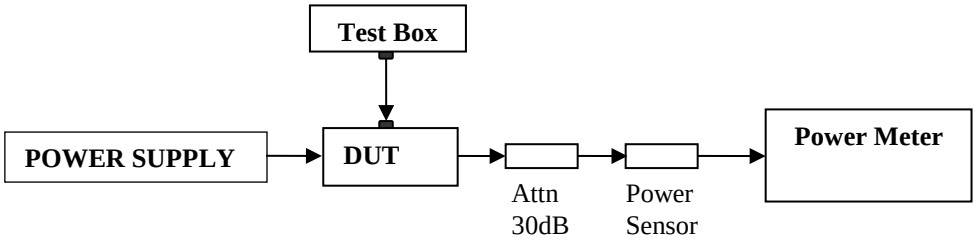
Test Item, (Channel Spacing)	Power (W)	Modulation	Test Frequency (MHz)	Tested By	Environmental conditions
RF Output Power	Low & Max	FM	762.0125, 768.0125, 769.0875, 774.8875, 775. 9875, 769.0125, 798.0125, 799.0125, 799.0875, 804.9125, 804.9875	Farah	23.4°C, 50%RH
Frequency Stability	Max	FM	NA	NA	NA
Audio Frequency Response (12.5kHz / 25kHz)	Max	FM	NA	NA	NA
Audio Low Pass Filter Response (12.5kHz / 25kHz)	Max	FM	NA	NA	NA
Modulation limiting (12.5kHz / 25kHz)	Max	FM	NA	NA	NA
Occupied Bandwidth (12.5kHz / 20kHz / 25kHz)	Max	FM/C4FM/Phase II	NA	NA	NA
Band Edge Conducted Spurious Emissions (Part 22) (12.5kHz / 20kHz / 25kHz)	Max	FM/C4FM/Phase II	NA	NA	NA
Transient Frequency Behavior *(UHF & VHF Band)* (12.5kHz / 25kHz)	Max	FM/C4FM	NA	NA	NA
Adjacent Channel Power *(700MHz Band)* (12.5kHz / 25kHz)	Max	FM/C4FM/Phase II	NA	NA	NA
Conducted Spurious Emissions- (12.5kHz / 25kHz)	Low / Max	FM/C4FM/Phase II	762.0125, 769.0125, 769.0875, 774.8875, 799.0125, 799.0875, 804.9125, 804.9875	Farah	23.4°C, 50%RH
Radiated Spurious Emission (12.5kHz / 25kHz)	Max	FM	799.0875	Aiman	23.4°C, 50%RH
GNSS (EIRP for 1559 - 1610MHz) (12.5kHz / 25kHz)	Max	FM/C4FM/Phase II	NA	NA	NA
Effective Radiated Power (ERP) (12.5kHz / 25kHz)	Max	FM/C4FM/Phase II	NA	NA	NA

NA → Not Applicable

6.0 Transmitter Test Parameters

6.1. RF Output Power

6.1.1. Test Setup



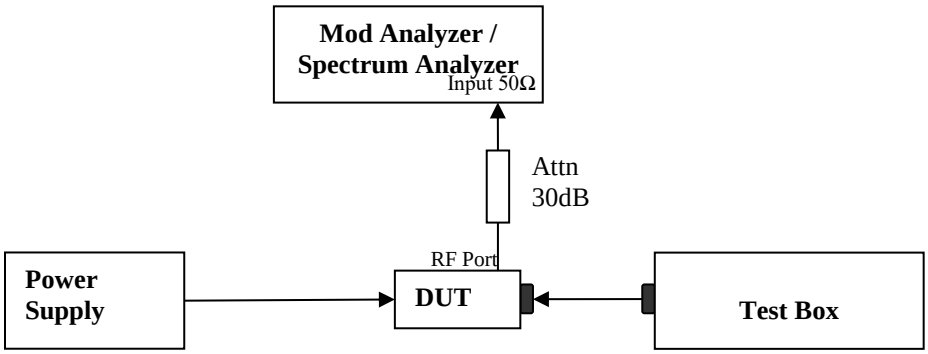
1) The DUT transmitter connected to Power Meter using the 30 dB attenuator and power sensor with above setup.
2) Path loss for the measurement included.
3) All the measurement was done at low, mid, high frequency for each band.
4) Record the power into the test report.

6.1.2. Test Result

Temperature	25˚C				Remark
Voltage (V)	7.5V				
Frequency (MHz)	Low Power (W)	Current (A)	Max Power (W)	Current (A)	
762.01250	0.99	2.91	35.40	10.74	Not for FCC review
768.01250	0.98	2.91	36.00	10.59	Not for FCC review
769.08750	0.97	2.91	35.90	10.56	
774.88750	0.93	2.91	34.40	10.35	
775.98750	0.90	1.08	34.40	10.50	Not for FCC review
769.01250	0.90	2.91	2.87	3.78	Itinerant (3W)
798.01250	0.98	2.88	36.00	10.92	Not for FCC review
799.01250	0.98	2.88	2.93	3.84	Itinerant (3W)
799.08750	0.97	2.88	35.90	10.89	
804.91250	0.99	2.88	35.90	10.89	
805.98750	0.99	1.08	36.00	10.98	Not for FCC review

6.2. Frequency Stability

6.2.1. Test Setup



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

5) Calculate the ppm frequency error by the following:

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

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

6.2.2. Test Result

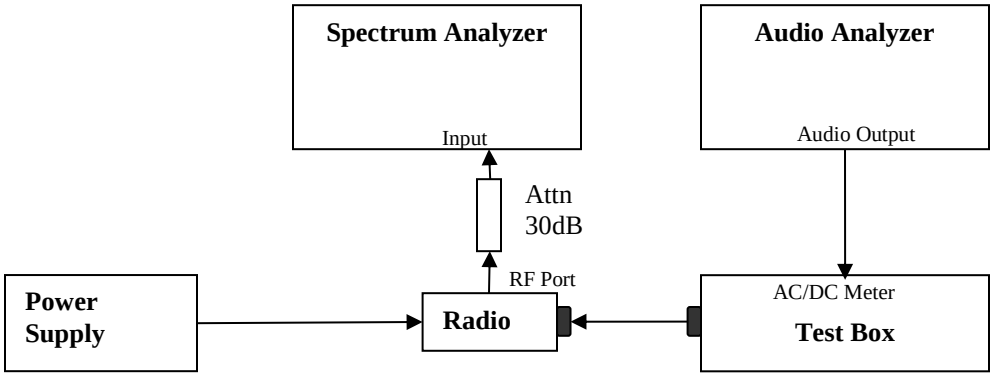
Not Applicable

6.2.3. Test Limit

The frequency stability limit is established as the most stringent value derived from the applicable regulatory requirements or the product-declared specifications.

6.3. Modulation Characteristics

6.3.1. Test Setup

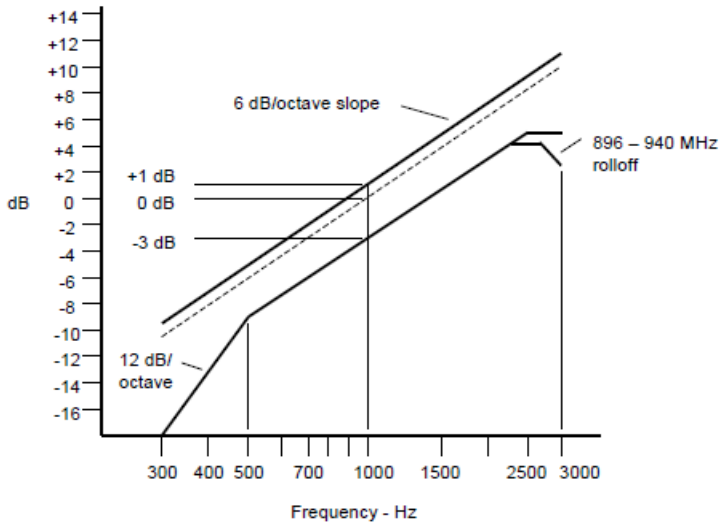


1) The DUT transmitter output port was connected to Modulation Analyzer.
2) Path loss for the measurement included.
3) Set the audio bandwidth filter to 15 kHz and 50 kHz.
4) Transmit the radio and set the audio analyzer to 1 kHz audio frequency and 20% of the Full rated system deviation.
5) On audio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

6.3.2. Test Result

Not Applicable

6.3.3. Test Limit

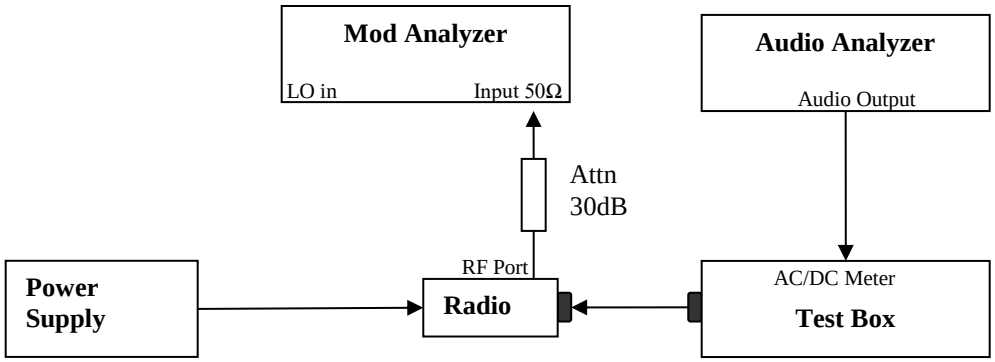


Note:

- *There are additional 6 dB per octave attenuation is allowed from 2.5KHz to 3KHz in equipment 25MHz to 869MHz radio.*
- *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 Applicable

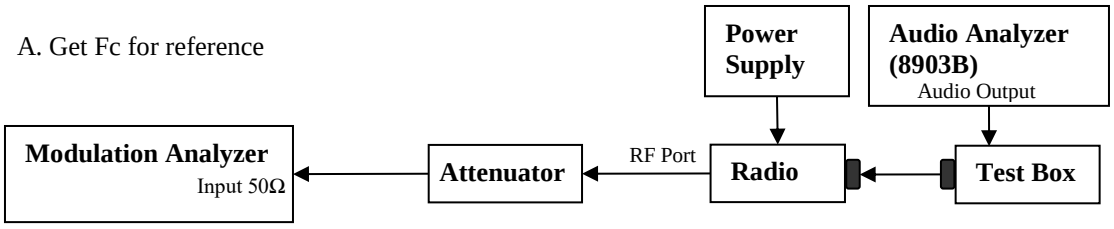
6.4.3. Test Limit

Modulation Limiting shall not exceed 100 percent.

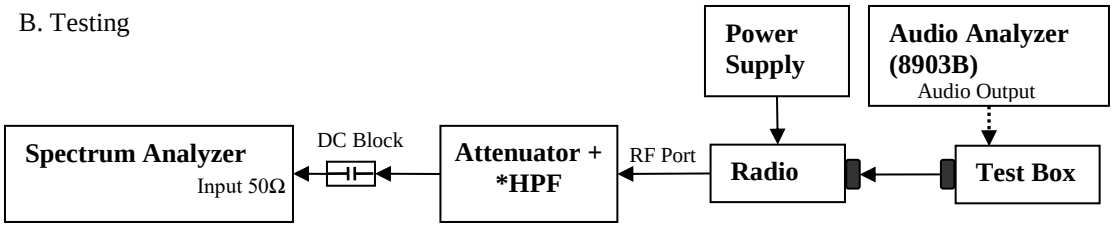
6.5. Occupied Bandwidth

6.5.1. Test Setup (Analog)

A. Get Fc for reference



B. Testing



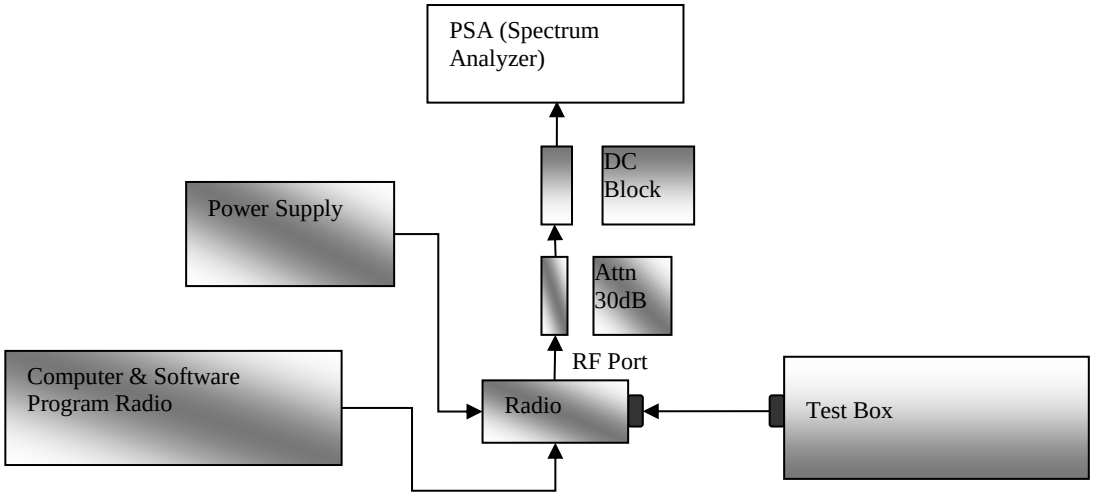
1) The DUT transmitter output port was connected to Modulation Analyzer.
2) Set the audio bandwidth filter to 15 kHz low pass filter and 50 kHz high pass filter.
3) Transmit the radio and set the audio analyzer to 2.5 kHz audio frequency and 50% of the rated deviation. Up the amplitude by 16 dB. Dekey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

* Only HPF added for Mask 80.211 measurement with attenuator.
* 99% Bandwidth measurement is computed by the spectrum analyzerand is consistent with the C63.26 5.4.4 method.

6.5.2. Test Result (Analog)

Not Applicable

6.5.3. Test Setup (Digital)



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

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

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

6.5.4. Test Result (Digital)

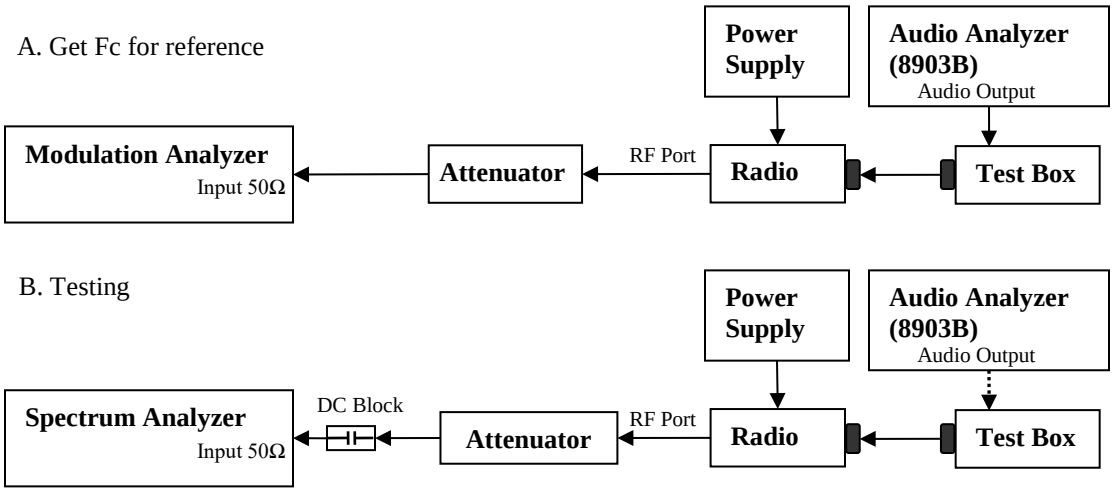
Not Applicable

6.5.5. Test Limit

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

6.6. Band Edge Conducted Spurious Emission (Part 22)

6.6.1. Test Setup (Analog)



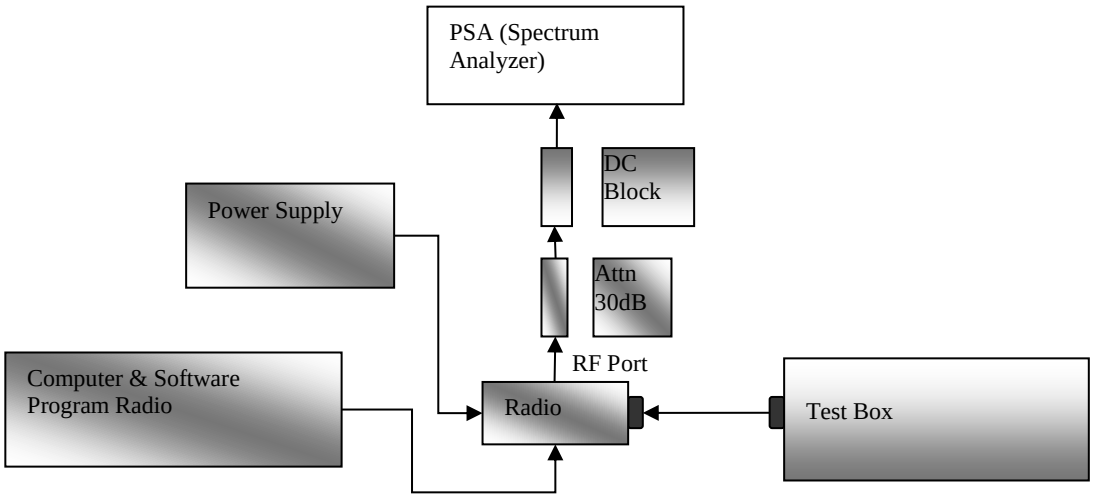
1) The DUT transmitter output port was connected to Modulation Analyzer.
2) Set the audio bandwidth filter to 15 kHz low pass filter and 50 kHz high pass filter.
3) Transmit the radio and set the audio analyzer to 2.5 kHz audio frequency and 50% of the rated deviation. Up the amplitude by 16 dB. Dekey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

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

6.6.2. Test Result (Analog)

Not Applicable

6.6.3. Test Setup (Digital)



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

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

6.6.4. Test Result (Digital)

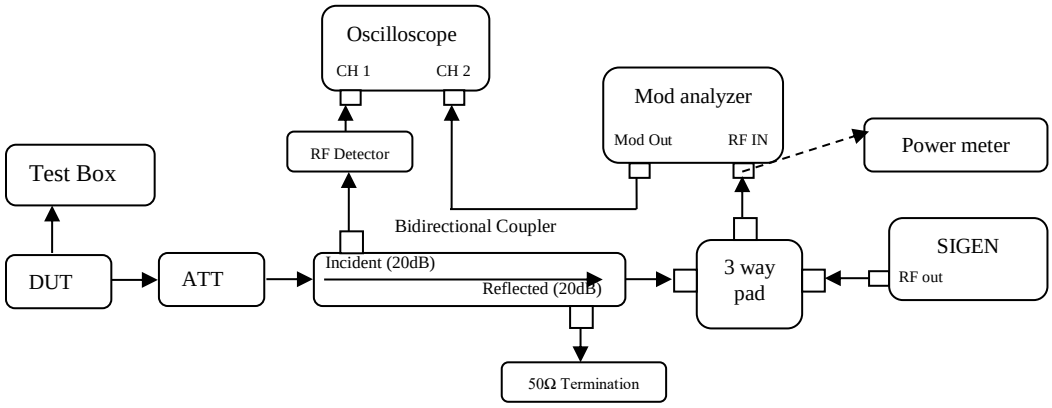
Not Applicable

6.6.5. Test Limit

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

6.7. Transient Frequency Behavior

6.7.1. Test Setup



1) Connect the setup as figure above.
2) Path loss for the measurement included.
3) Set on Sigen 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 ≤ -11dBm into power meter when DUT is keying up.
6) Note the power level on power meter and dekey the DUT.
7) Adjust the amplitude of the signal generator to the level power meter, maintained the amplitude throughout the rest of the measurement.
8) Connect the output to modulation analyzer.
9) Reduce 30dB attenuation and transmit the radio to get the trigger line.
10) Capture the screen shot for key-up (rising edge) and de-key (falling edge) mode.

6.7.2. Test Result

Not Applicable

6.7.3. Test Limit

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

Time intervals[1] [2]	Maximum frequency difference[3]	All equipment	
		150 to 174 MHz	421 to 512 MHz
Transient Frequency Behavior for Equipment Designed to Operate on 25 kHz Channels			
t_1[4]	±25.0 kHz	5.0 ms	10.0 ms
t_2	±12.5 kHz	20.0 ms	25.0 ms
t_3[4]	±25.0 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 12.5 kHz Channels			
t_1[4]	±12.5 kHz	5.0 ms	10.0 ms
t_2	±6.25 kHz	20.0 ms	25.0 ms
t_3[4]	±12.5 kHz	5.0 ms	10.0 ms
Transient Frequency Behavior for Equipment Designed to Operate on 6.25 kHz Channels			
t_1[4]	±6.25 kHz	5.0 ms	10.0 ms
t_2	±3.125 kHz	20.0 ms	25.0 ms
t_3[4]	±6.25 kHz	5.0 ms	10.0 ms

[1] t_{on} is the instant when a 1 kHz test signal is completely suppressed, including any capture time due to phasing.
t_1 is the time period immediately following t_{on}.
t_2 is the time period immediately following t_1.
t_3 is the time period from the instant when the transmitter is turned off until t_{off}.
t_{off} is the instant when the 1 kHz test signal starts to rise.

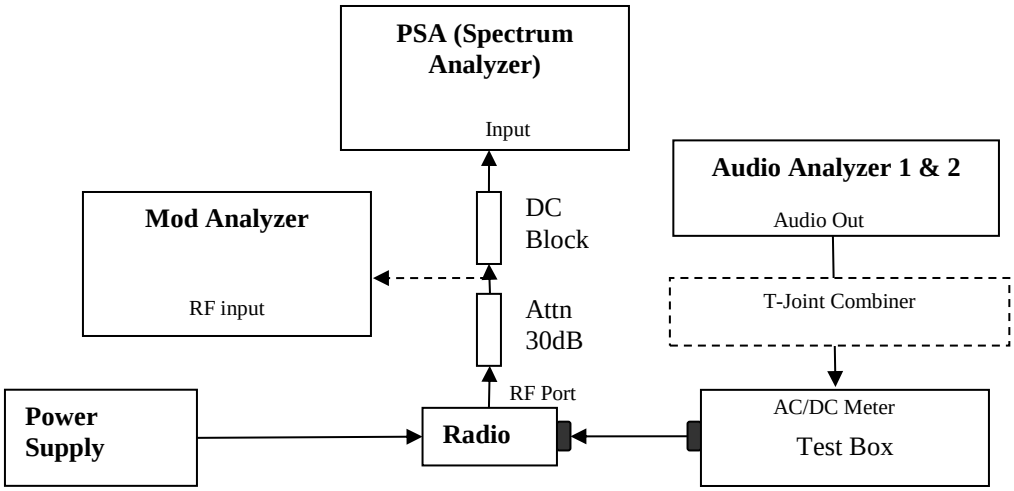
[2] During the time from the end of t_2 to the beginning of t_3, the frequency difference must not exceed the limits specified in §90.213.

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

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

6.8. Adjacent Channel Power

6.8.1. Test Setup (Analog)

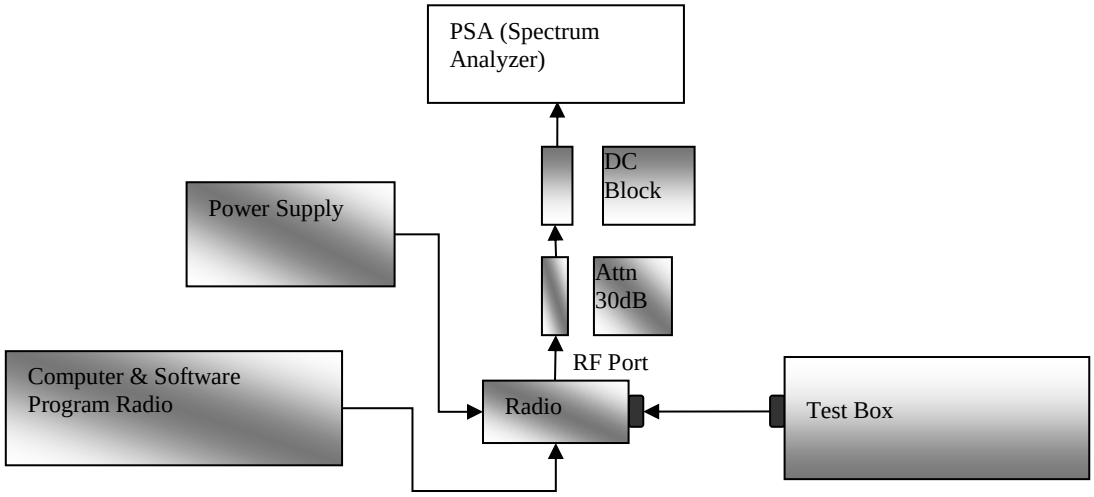


1) The DUT transmitter output port was connected to modulation analyzer.
2) Transmit the radio and turn on 1st audio analyzer with audio frequency 650Hz, 50% rated deviation, and record the amplitude value as AmpT1.
3) Turn off Audio analyzer 1 and turn on audio analyzer 2, set the audio frequency to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

6.8.2. Test Result

Not Applicable

6.8.3. Test Setup (Digital)



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

6.8.4. Test Result

Not Applicable

6.8.5. Test Limit

12.5 kHz Mobile Transmitter ACP Requirements

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

25 kHz Mobile Transmitter ACP Requirements

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

12.5 kHz Base Transmitter ACP Requirements

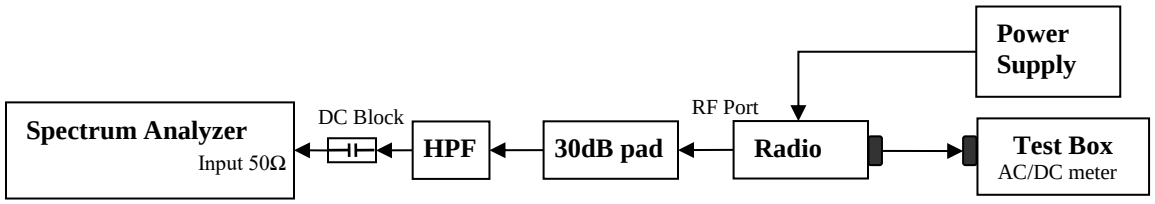
Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP (dBc)
9.375	6.25	−40
15.625	6.25	−60
21.875	6.25	−60
37.5	25	−60
62.5	25	−65
87.5	25	−65
150	100	−65
250	100	−65
350.00	100	−65
>400 kHz to 12 MHz	30 (s)	−80
12 MHz to paired receive band	30 (s)	−80
In the paired receive band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

25 kHz Base Transmitter ACP Requirements

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

6.9. Conducted Spurious Emission

6.9.1. Test Setup

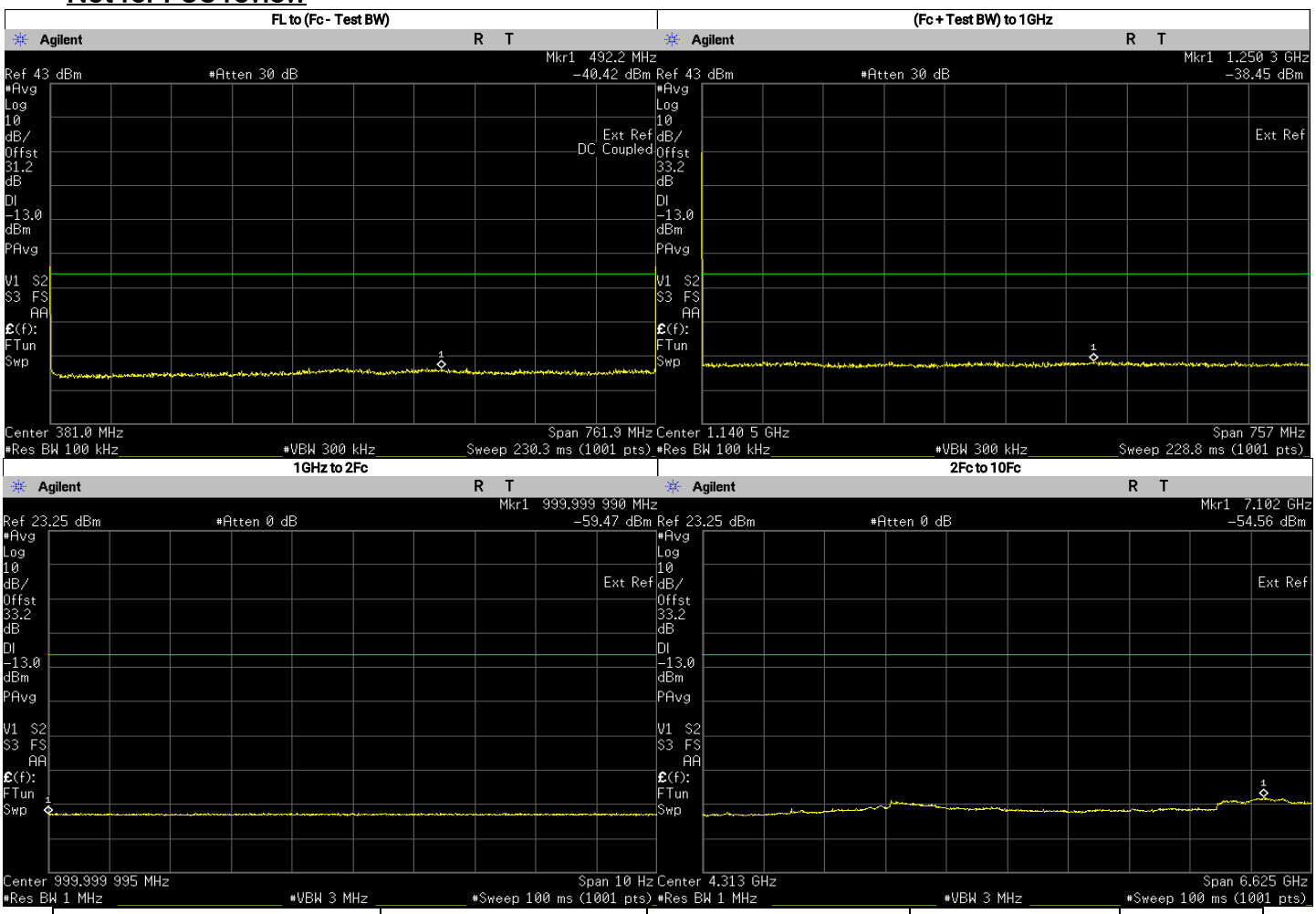


1) The DUT transmitter output port was connected to Spectrum Analyzer with above setup.
2) Program and set radio to operate in desire test frequency and mode. (Analog / digital modulation form).
3) Path loss for the measurement included.
4) Set the PSA Resolution Bandwidth as per rules part.
5) Set the Ref offset from the pathloss offset calibration file.
6) Adjust the center frequency of the spectrum analyzer for incremental coverage of the range from:
    a. 9 KHz to Fc – Test Bandwidth
    b. Fc + Test Bandwidth to 2Fc – 5MHz.
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 2Fc to 10Fc
11) Key up the DUT and record the highest spur levels of spurious emissions.

6.9.2. Test Result (Analog)

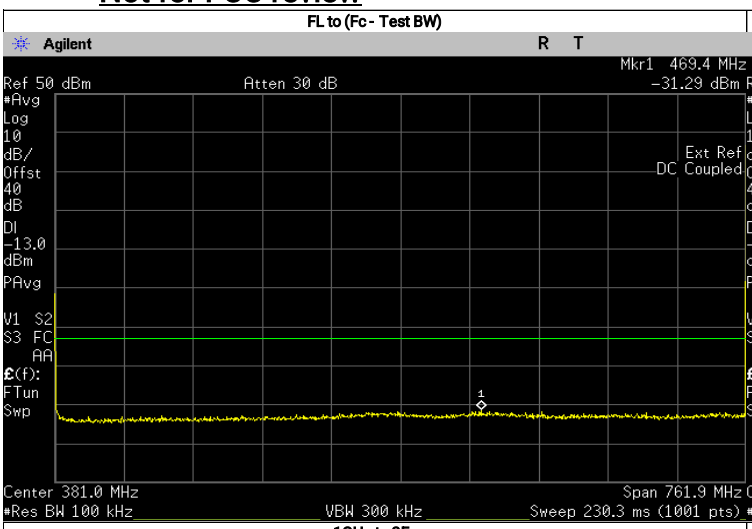
Analog: 762.0125 MHz, 12.5 kHz Channel Spacing, Low Power

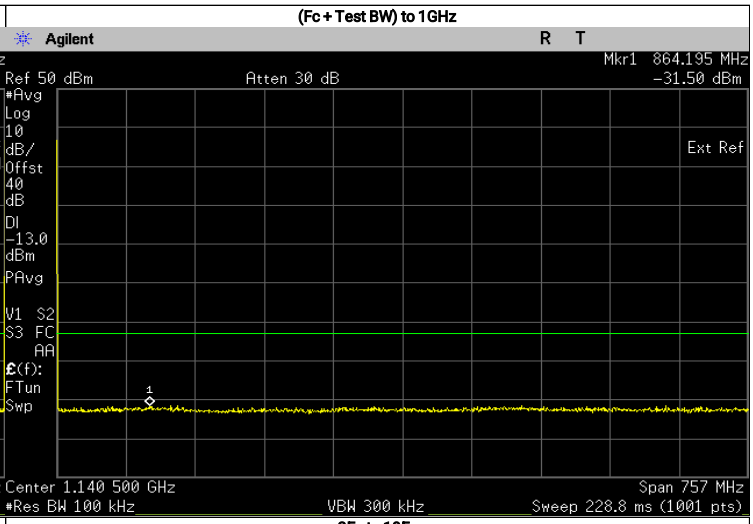
Not for FCC review

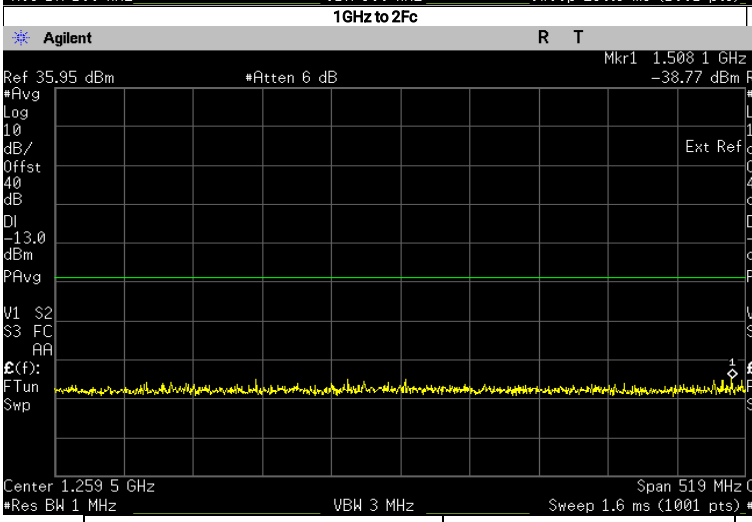


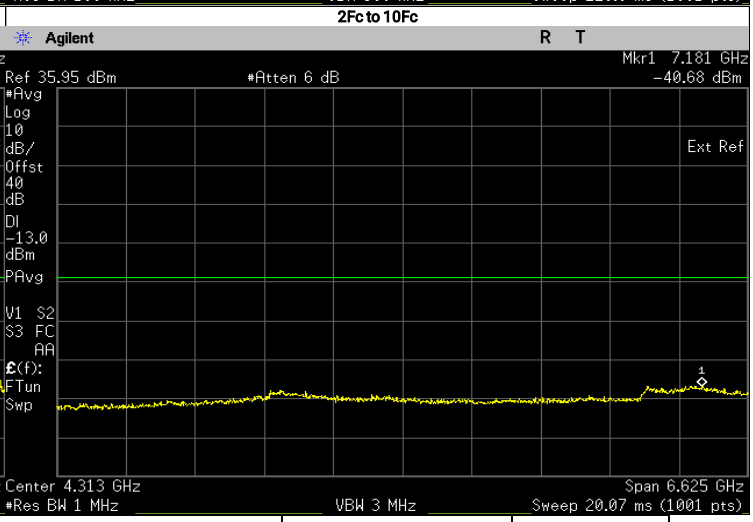
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	492.2000	-40.4210	-13	PASS
(Fc + Test BW) to <2Fc	1250.3050	-38.4500	-13	PASS
2Fc to 1GHz	999.9999	-59.4700	-13	PASS
1GHz to 10Fc	7101.7400	-54.5600	-13	PASS
	1524.0250	-59.6133	-13	PASS
	2286.0370	-59.1006	-13	PASS
	3048.0500	-55.7560	-13	PASS
	3810.0620	-57.8867	-13	PASS
	4572.0750	-58.6136	-13	PASS
	5334.0870	-58.4879	-13	PASS
	6096.1000	-58.1496	-13	PASS
	6858.1130	-56.2529	-13	PASS
	7620.1250	-56.3583	-13	PASS

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



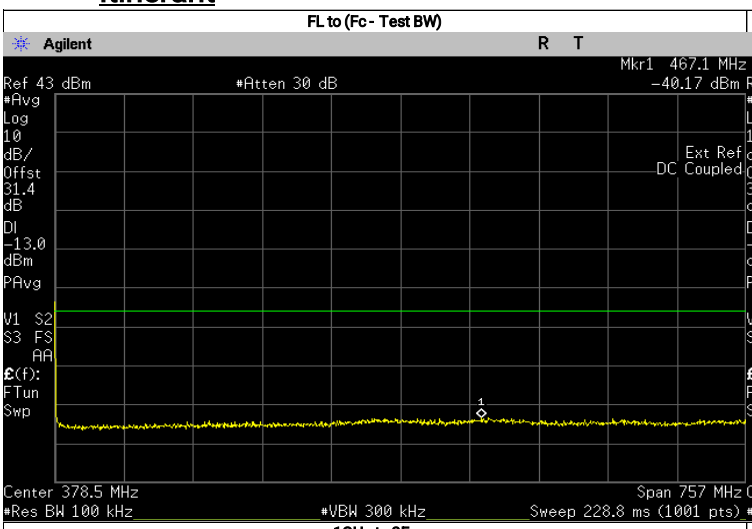


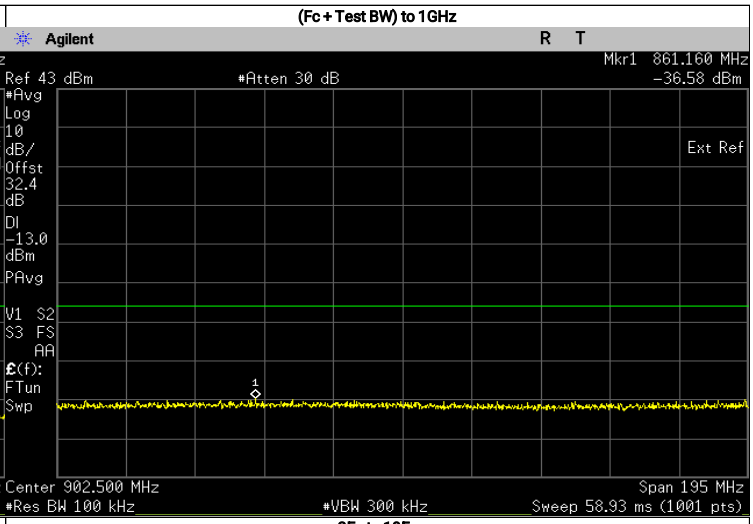


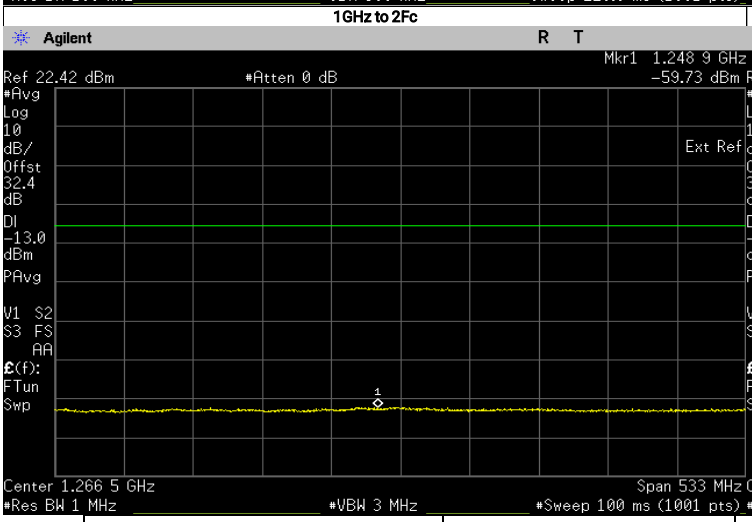


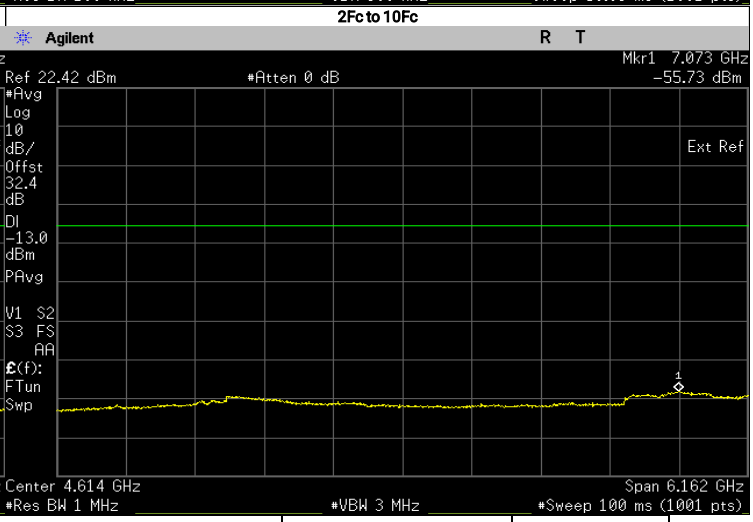
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	469.4000	-31.2900	-13	PASS
(Fc + Test BW) to <2Fc	864.1950	-31.5000	-13	PASS
2Fc to 1GHz	1508.1000	-38.7700	-13	PASS
1GHz to 10Fc	7181.0131	-40.6800	-13	PASS
	1524.0250	-45.2200	-13	PASS
	2286.0370	-45.6200	-13	PASS
	3048.0500	-41.8300	-13	PASS
	3810.0620	-44.0000	-13	PASS
	4572.0750	-45.1500	-13	PASS
	5334.0870	-44.8500	-13	PASS
	6096.1000	-44.2800	-13	PASS
	6858.1130	-42.5900	-13	PASS
	7620.1250	-42.2500	-13	PASS

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



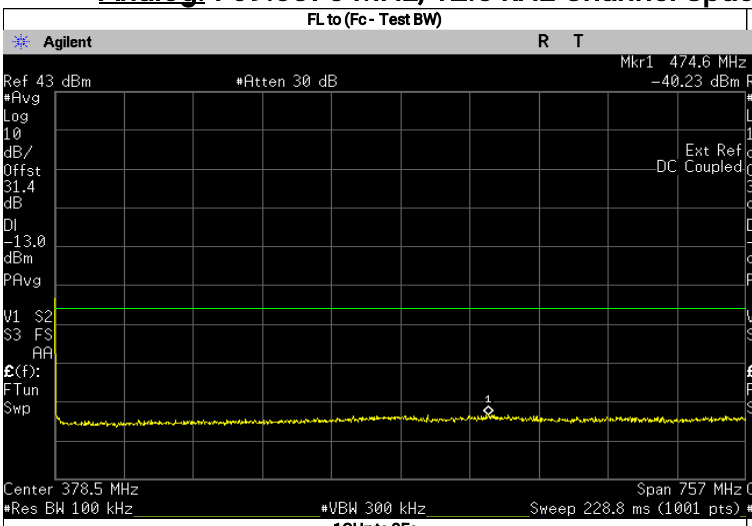


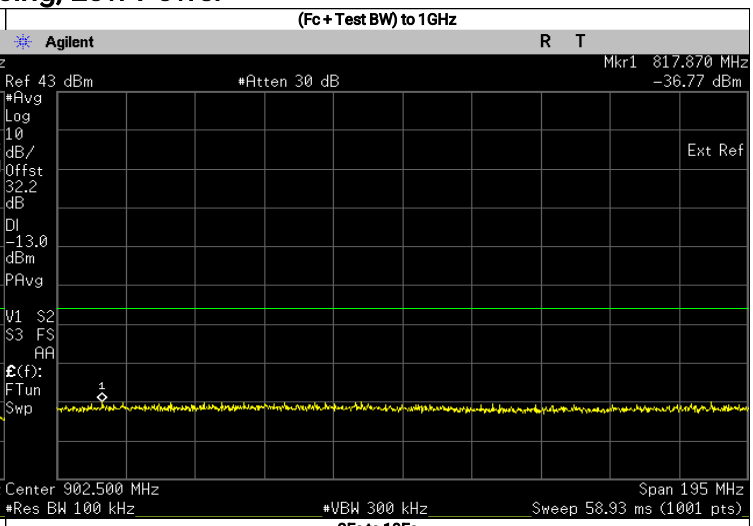


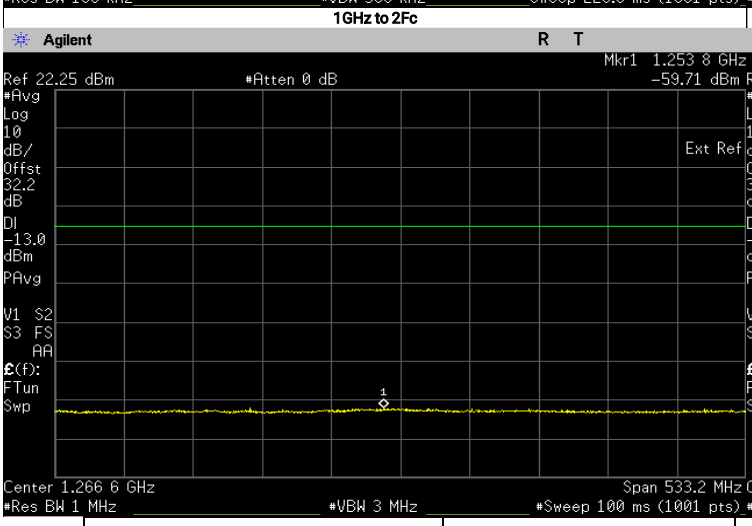


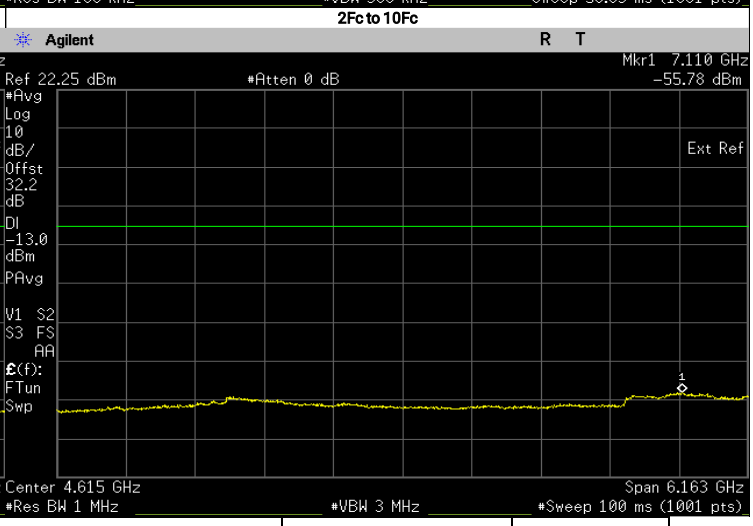
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	467.1000	-40.1720	-13	PASS
(Fc + Test BW) to <2Fc	861.1600	-36.5800	-13	PASS
2Fc to 1GHz	1248.9230	-59.7300	-13	PASS
1GHz to 10Fc	7072.7530	-55.7300	-13	PASS
	1538.0250	-60.4238	-13	PASS
	2307.0370	-59.6677	-13	PASS
	3076.0500	-56.8487	-13	PASS
	3845.0620	-58.9117	-13	PASS
	4614.0750	-59.4000	-13	PASS
	5383.0870	-59.3995	-13	PASS
	6152.1000	-58.9951	-13	PASS
	6921.1130	-56.6163	-13	PASS
	7690.1250	-56.7156	-13	PASS

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



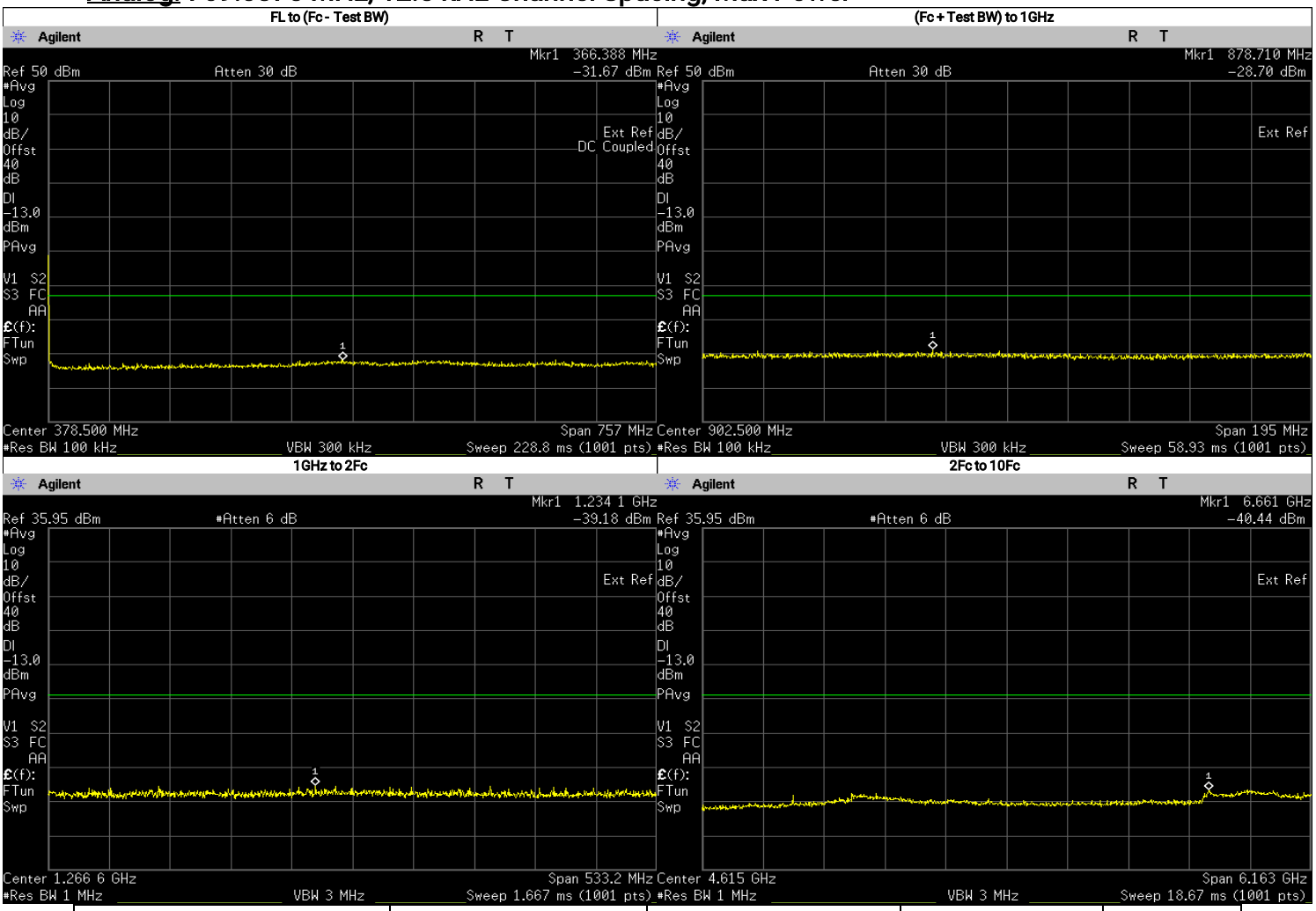






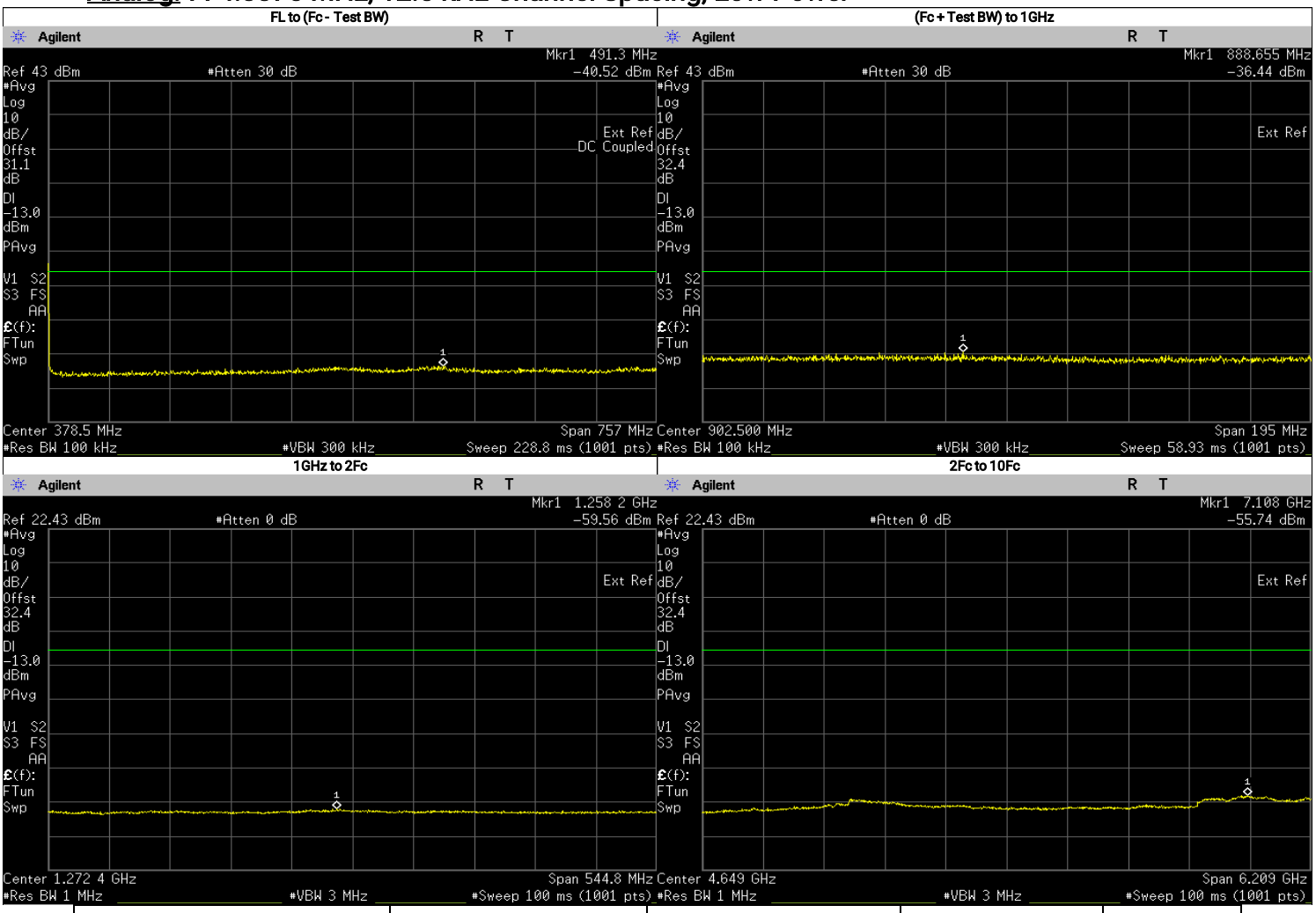
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	474.6000	-40.2300	-13	PASS
(Fc + Test BW) to <2Fc	817.8700	-36.7700	-13	PASS
2Fc to 1GHz	1253.7910	-59.7100	-13	PASS
1GHz to 10Fc	7110.4180	-55.7800	-13	PASS
	1538.1750	-60.5149	-13	PASS
	2307.2620	-59.9430	-13	PASS
	3076.3500	-57.1266	-13	PASS
	3845.4370	-59.1379	-13	PASS
	4614.5250	-59.6320	-13	PASS
	5383.6130	-59.2809	-13	PASS
	6152.7000	-59.1601	-13	PASS
	6921.7880	-57.0883	-13	PASS
	7690.8750	-56.6901	-13	PASS

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



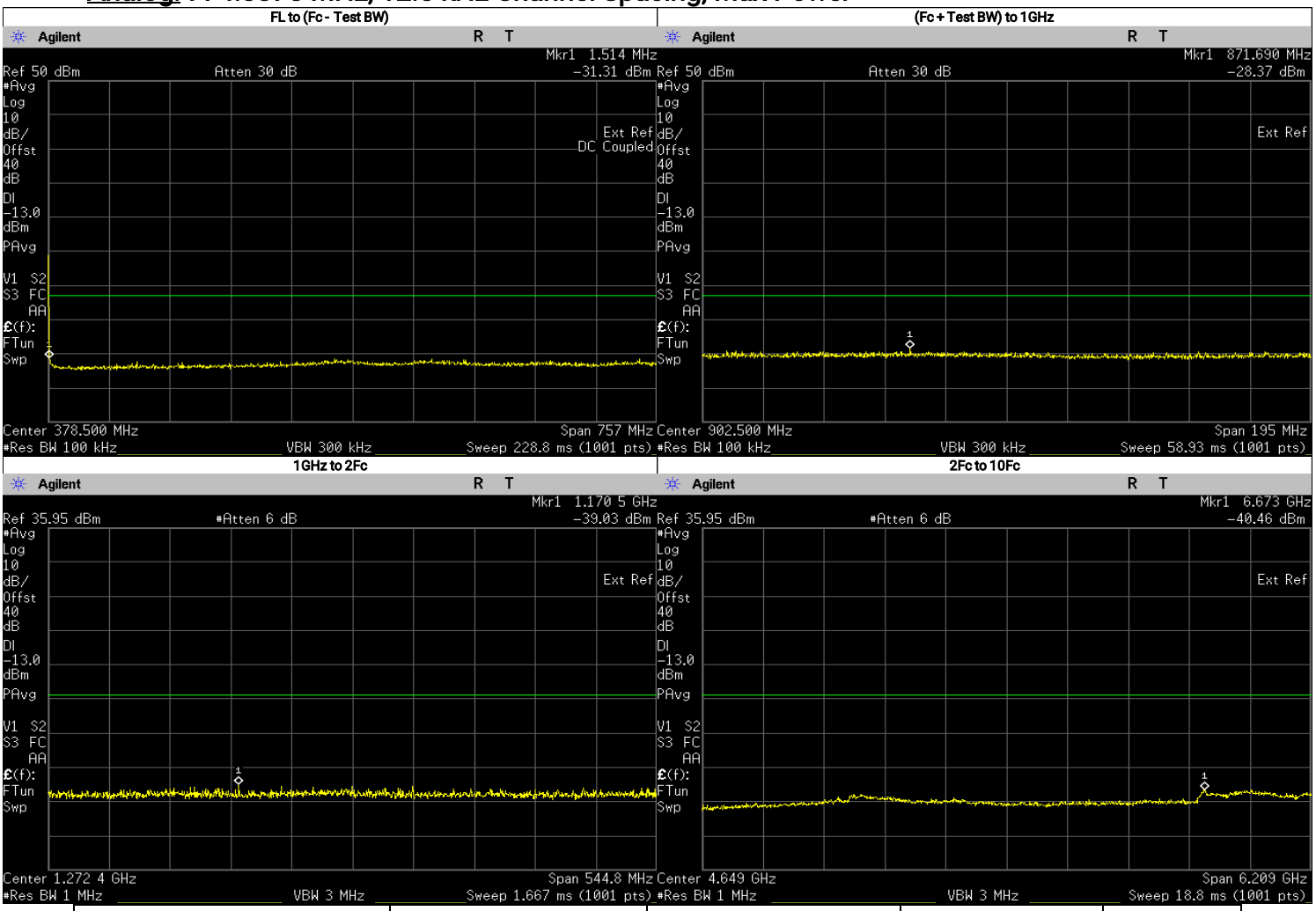
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	366.3880	-31.6700	-13	PASS
(Fc + Test BW) to <2Fc	878.7100	-28.7000	-13	PASS
2Fc to 1GHz	1234.1000	-39.1800	-13	PASS
1GHz to 10Fc	6661.0000	-40.4400	-13	PASS
	1538.1750	-46.2490	-13	PASS
	2307.2620	-45.7800	-13	PASS
	3076.3500	-42.0900	-13	PASS
	3845.4370	-43.9660	-13	PASS
	4614.5250	-44.1990	-13	PASS
	5383.6130	-44.0920	-13	PASS
	6152.7000	-44.5800	-13	PASS
	6921.7880	-42.2720	-13	PASS
	7690.8750	-42.4250	-13	PASS

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



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	491.3000	-40.5170	-13	PASS
(Fc + Test BW) to <2Fc	888.6550	-36.4400	-13	PASS
2Fc to 1GHz	1258.2230	-59.5600	-13	PASS
1GHz to 10Fc	7108.1290	-55.7400	-13	PASS
	1549.7750	-60.4666	-13	PASS
	2324.6620	-59.7010	-13	PASS
	3099.5500	-56.9734	-13	PASS
	3874.4370	-58.8738	-13	PASS
	4649.3250	-59.4630	-13	PASS
	5424.2120	-59.1865	-13	PASS
	6199.1000	-59.1529	-13	PASS
	6973.9880	-56.4388	-13	PASS
	7748.8750	-56.8204	-13	PASS

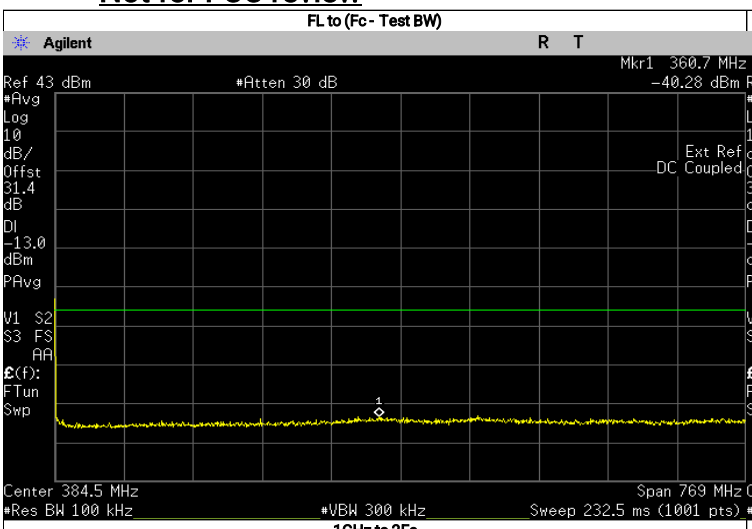
Analog: 774.8875 MHz, 12.5 kHz Channel Spacing, Max Power

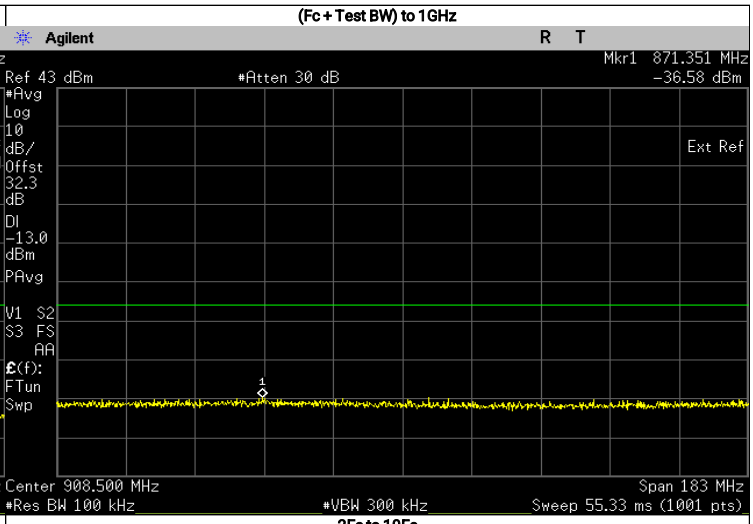


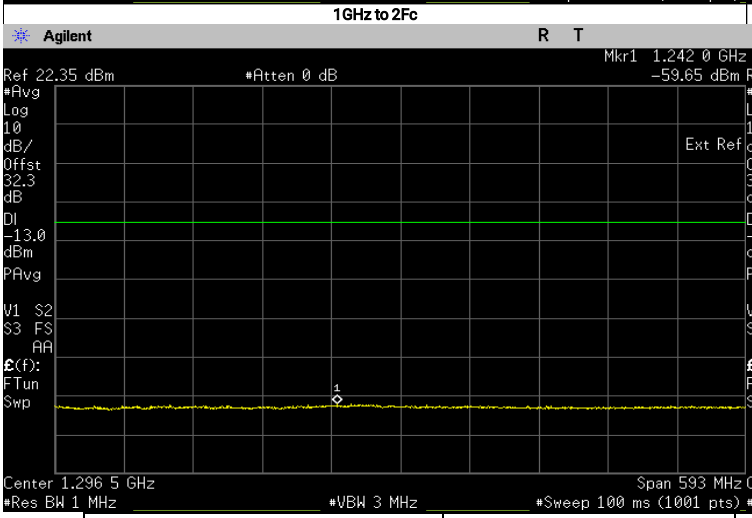
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	151.4000	-31.3100	-13	PASS
(Fc + Test BW) to <2Fc	871.6900	-28.3700	-13	PASS
2Fc to 1GHz	1170.5000	-39.0300	-13	PASS
1GHz to 10Fc	6673.0000	-40.4600	-13	PASS
	1549.7750	-46.4350	-13	PASS
	2324.6620	-45.5680	-13	PASS
	3099.5500	-42.0070	-13	PASS
	3874.4370	-44.2570	-13	PASS
	4649.3250	-44.6670	-13	PASS
	5424.2120	-44.4950	-13	PASS
	6199.1000	-43.9660	-13	PASS
	6973.9880	-41.3910	-13	PASS
	7748.8750	-41.6790	-13	PASS

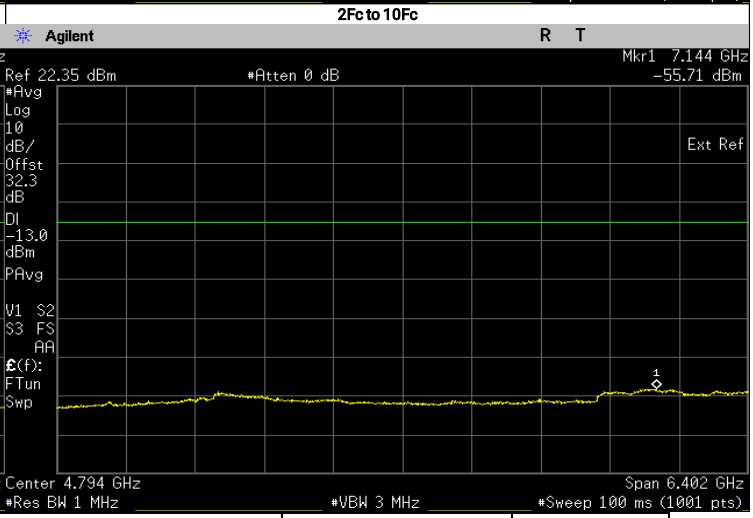
Analog: 799.0125 MHz, 12.5 kHz Channel Spacing, Low Power

Not for FCC review





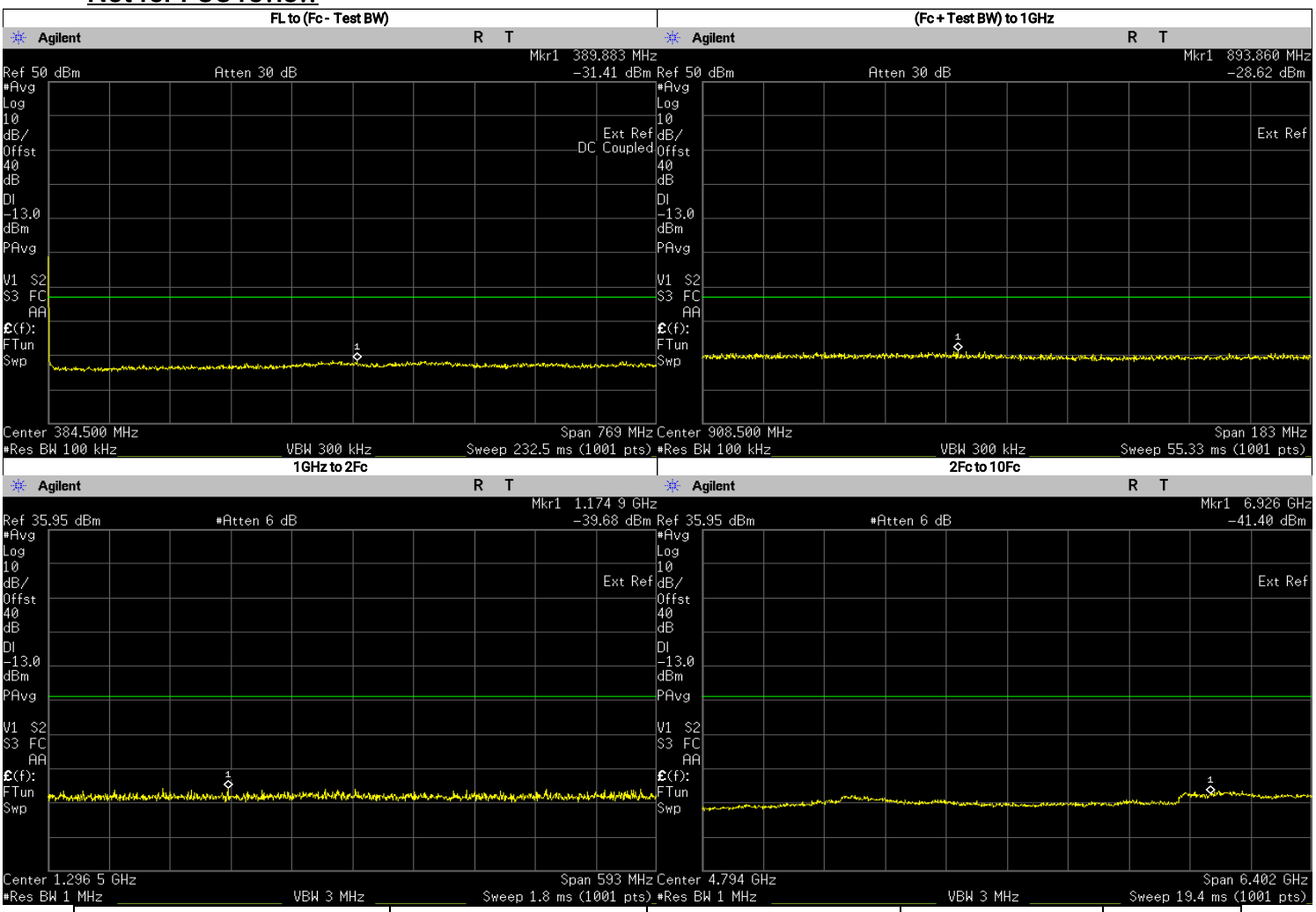




Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	360.7000	-40.2840	-13	PASS
(Fc + Test BW) to <2Fc	871.3510	-36.5900	-13	PASS
2Fc to 1GHz	1241.9540	-59.6500	-13	PASS
1GHz to 10Fc	7143.6460	-55.7100	-13	PASS
	1598.0250	-60.6421	-13	PASS
	2397.0370	-59.6711	-13	PASS
	3196.0500	-57.2304	-13	PASS
	3995.0620	-58.8041	-13	PASS
	4794.0750	-59.7130	-13	PASS
	5593.0870	-59.3357	-13	PASS
	6392.1000	-59.0434	-13	PASS
	7191.1130	-56.5647	-13	PASS
	7990.1250	-56.5765	-13	PASS

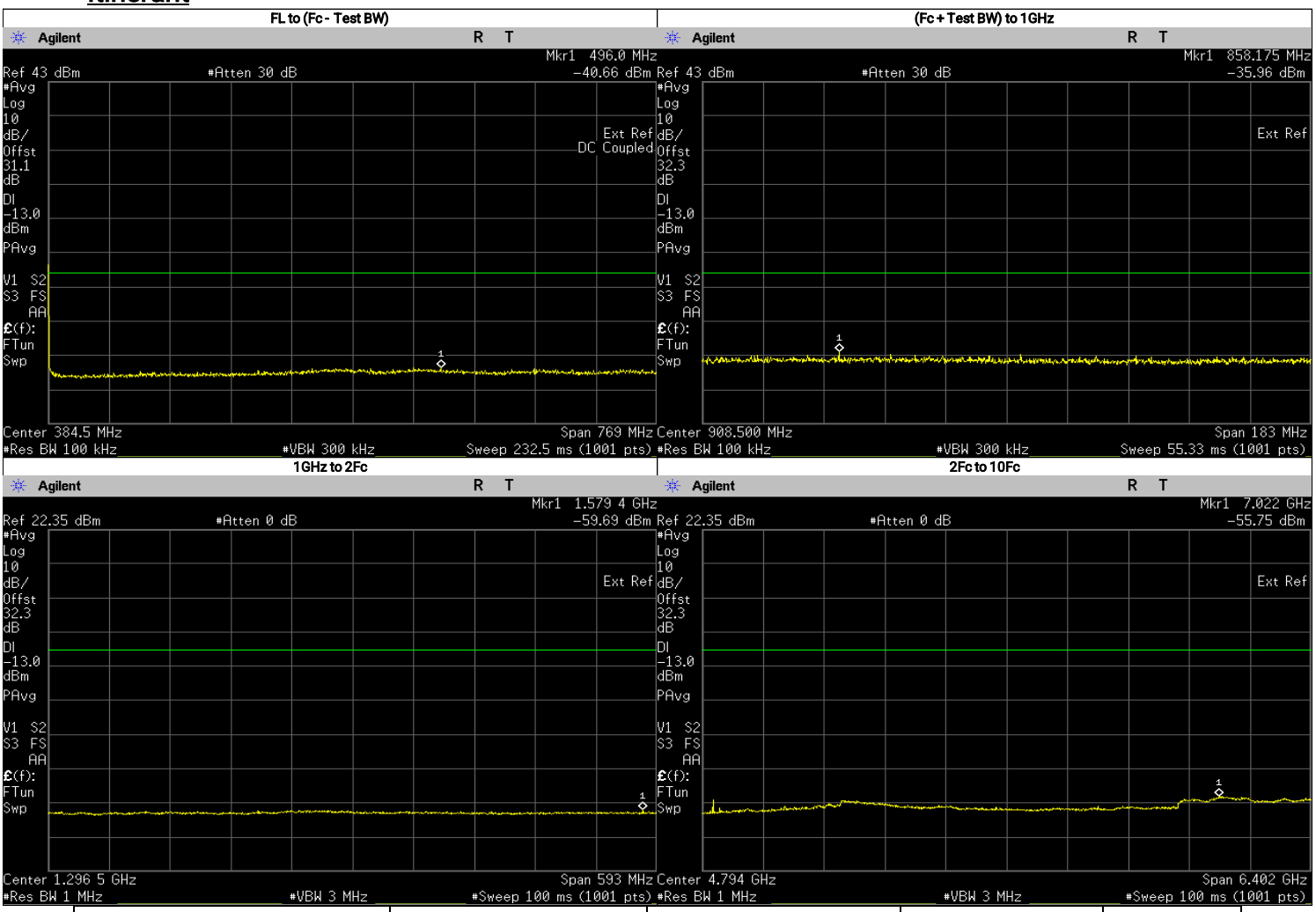
Analog: 799.0125 MHz, 12.5 kHz Channel Spacing, Max Power

Not for FCC review



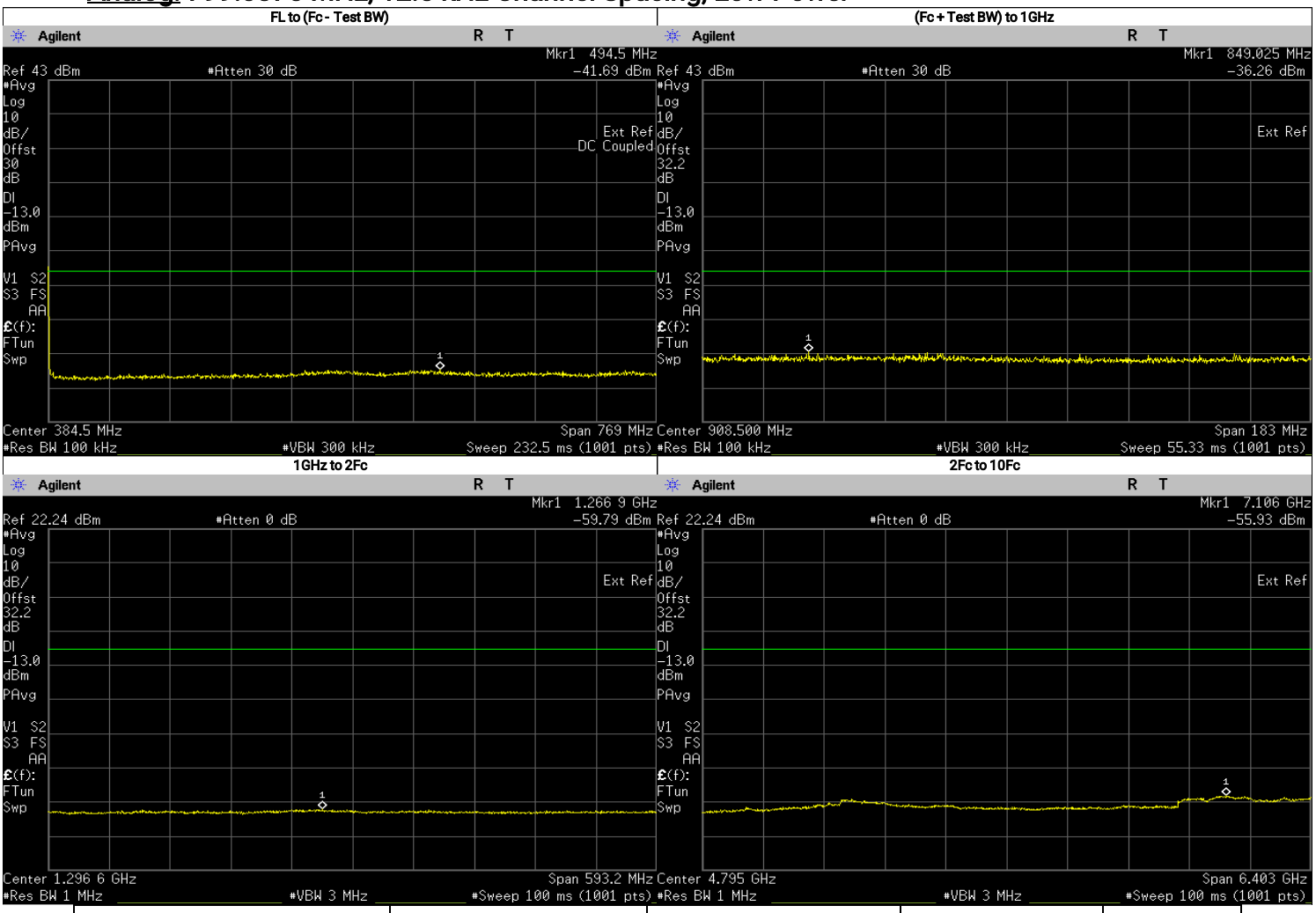
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	389.8830	-31.4100	-13	PASS
(Fc + Test BW) to <2Fc	893.8600	-28.6200	-13	PASS
2Fc to 1GHz	1174.9000	-39.6800	-13	PASS
1GHz to 10Fc	6926.0000	-41.4000	-13	PASS
	1598.0250	-45.8250	-13	PASS
	2397.0370	-44.9390	-13	PASS
	3196.0500	-42.6220	-13	PASS
	3995.0620	-44.0140	-13	PASS
	4794.0750	-44.2930	-13	PASS
	5593.0870	-44.2050	-13	PASS
	6392.1000	-44.4990	-13	PASS
	7191.1130	-41.0550	-13	PASS
	7990.1250	-41.8640	-13	PASS

Analog: 799.0125 MHz, 12.5 kHz Channel Spacing, Max Power Itinerant



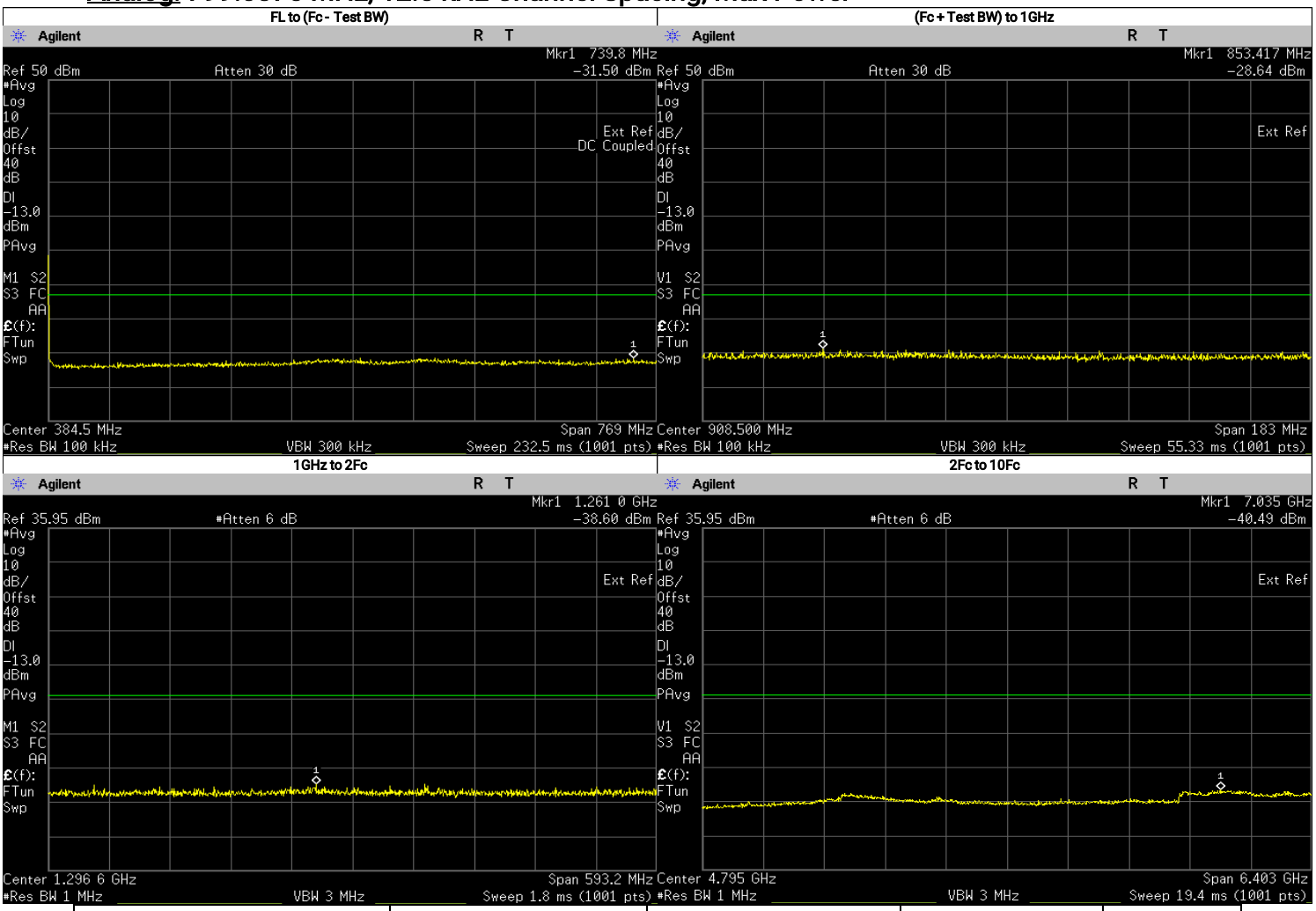
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	496.0000	-40.6580	-13	PASS
(Fc + Test BW) to <2Fc	858.1750	-35.9600	-13	PASS
2Fc to 1GHz	1579.3850	-59.6900	-13	PASS
1GHz to 10Fc	7022.0060	-55.7500	-13	PASS
	1598.0250	-60.5874	-13	PASS
	2397.0370	-59.5876	-13	PASS
	3196.0500	-57.2960	-13	PASS
	3995.0620	-58.8952	-13	PASS
	4794.0750	-59.7380	-13	PASS
	5593.0870	-59.5104	-13	PASS
	6392.1000	-59.1207	-13	PASS
	7191.1130	-56.3442	-13	PASS
	7990.1250	-56.6368	-13	PASS

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



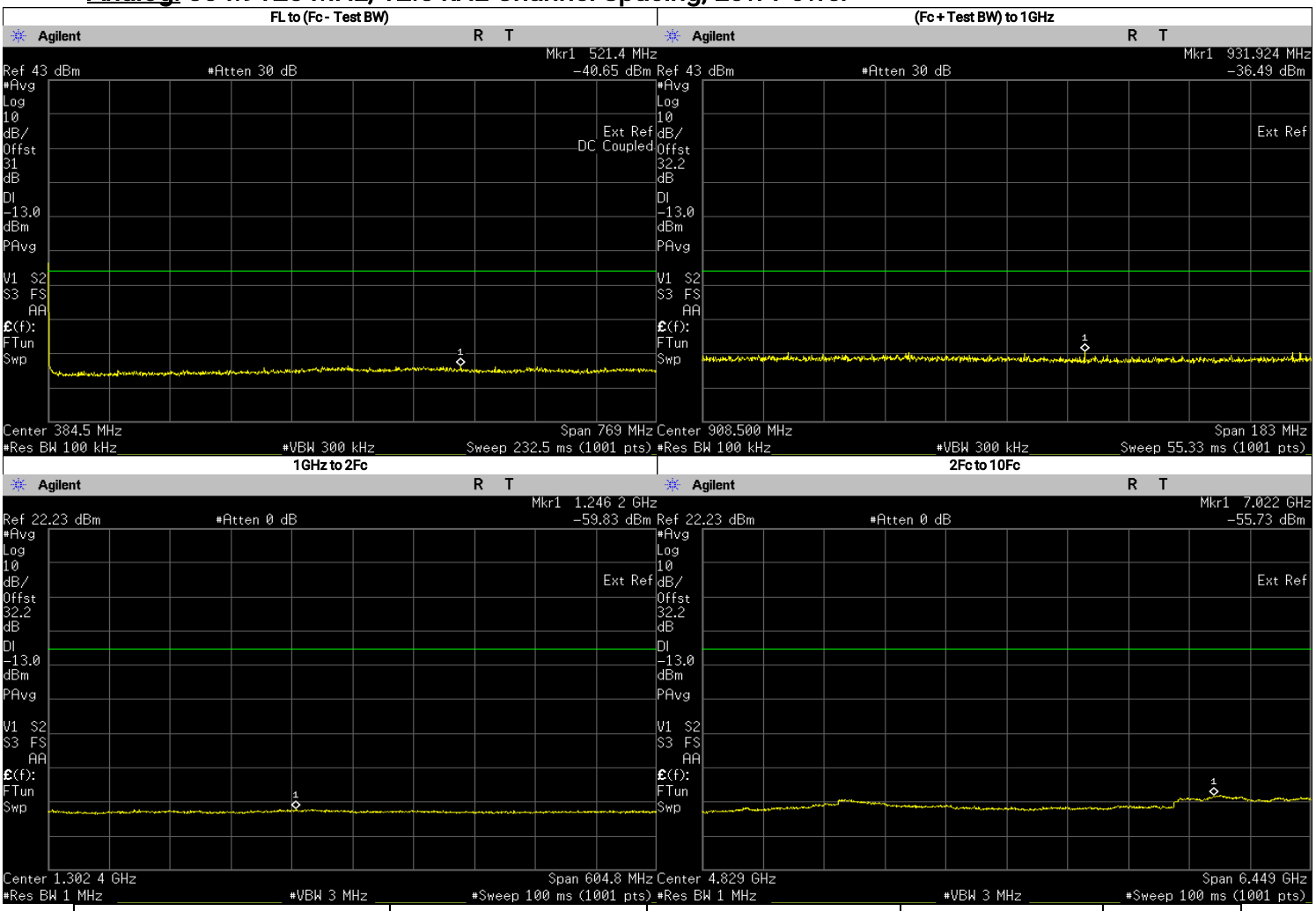
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	494.5000	-41.6930	-13	PASS
(Fc + Test BW) to <2Fc	849.0250	-36.2617	-13	PASS
2Fc to 1GHz	1266.9290	-59.7900	-13	PASS
1GHz to 10Fc	7105.9000	-55.9300	-13	PASS
	1598.1750	-60.6718	-13	PASS
	2397.2620	-59.6959	-13	PASS
	3196.3500	-57.6143	-13	PASS
	3995.4370	-59.1736	-13	PASS
	4794.5250	-59.7570	-13	PASS
	5593.6130	-59.6493	-13	PASS
	6392.7000	-59.2837	-13	PASS
	7191.7880	-56.7020	-13	PASS
	7990.8750	-56.5814	-13	PASS

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



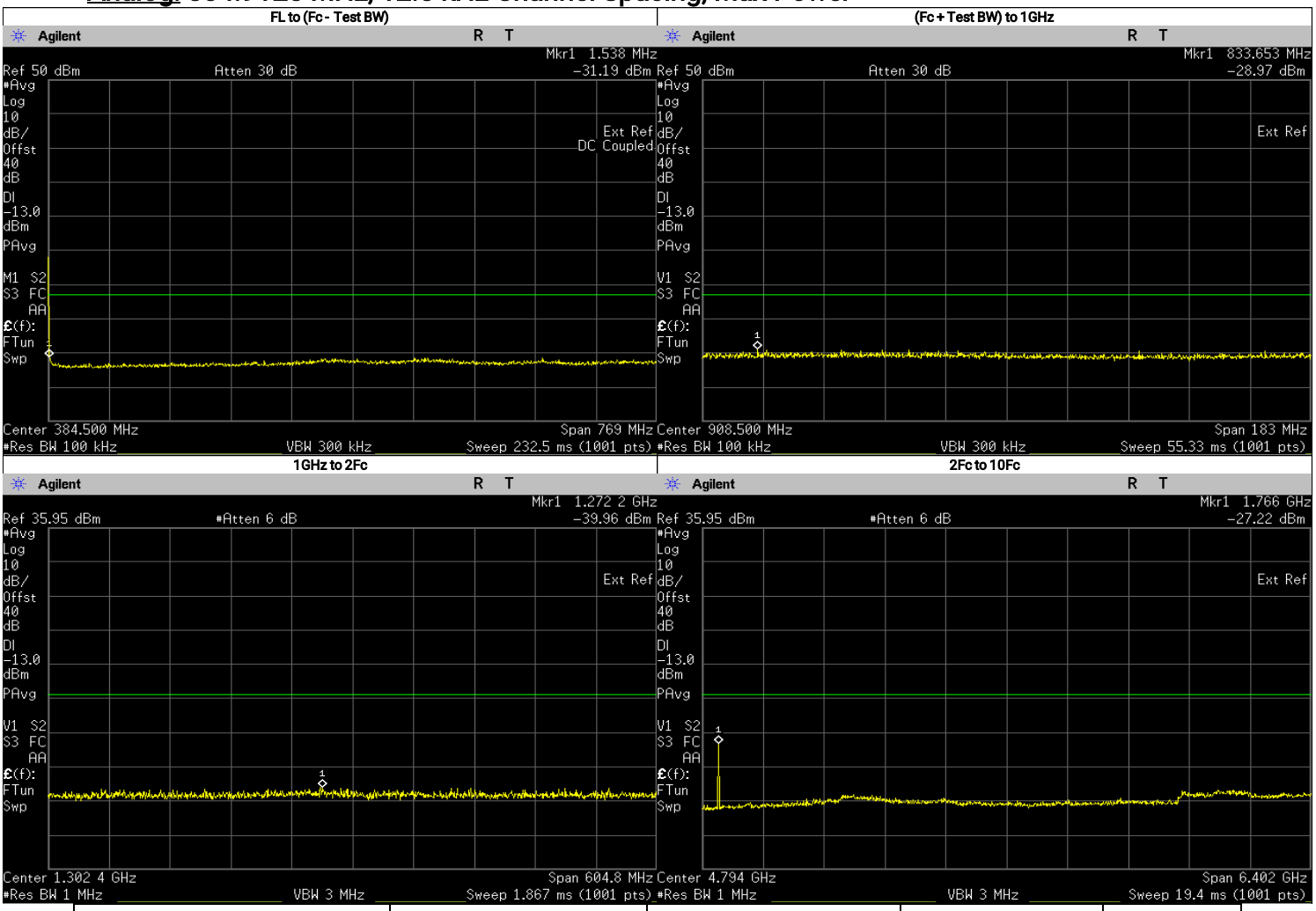
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	739.8000	-31.5000	-13	PASS
(Fc + Test BW) to <2Fc	853.4170	-28.6400	-13	PASS
2Fc to 1GHz	1260.9290	-38.6000	-13	PASS
1GHz to 10Fc	7034.9290	-40.4900	-13	PASS
	1598.1750	-45.8110	-13	PASS
	2397.2620	-44.8760	-13	PASS
	3196.3500	-42.2930	-13	PASS
	3995.4370	-44.0890	-13	PASS
	4794.5250	-44.1590	-13	PASS
	5593.6130	-44.4730	-13	PASS
	6392.7000	-44.1460	-13	PASS
	7191.7880	-41.4840	-13	PASS
	7990.8750	-41.7930	-13	PASS

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



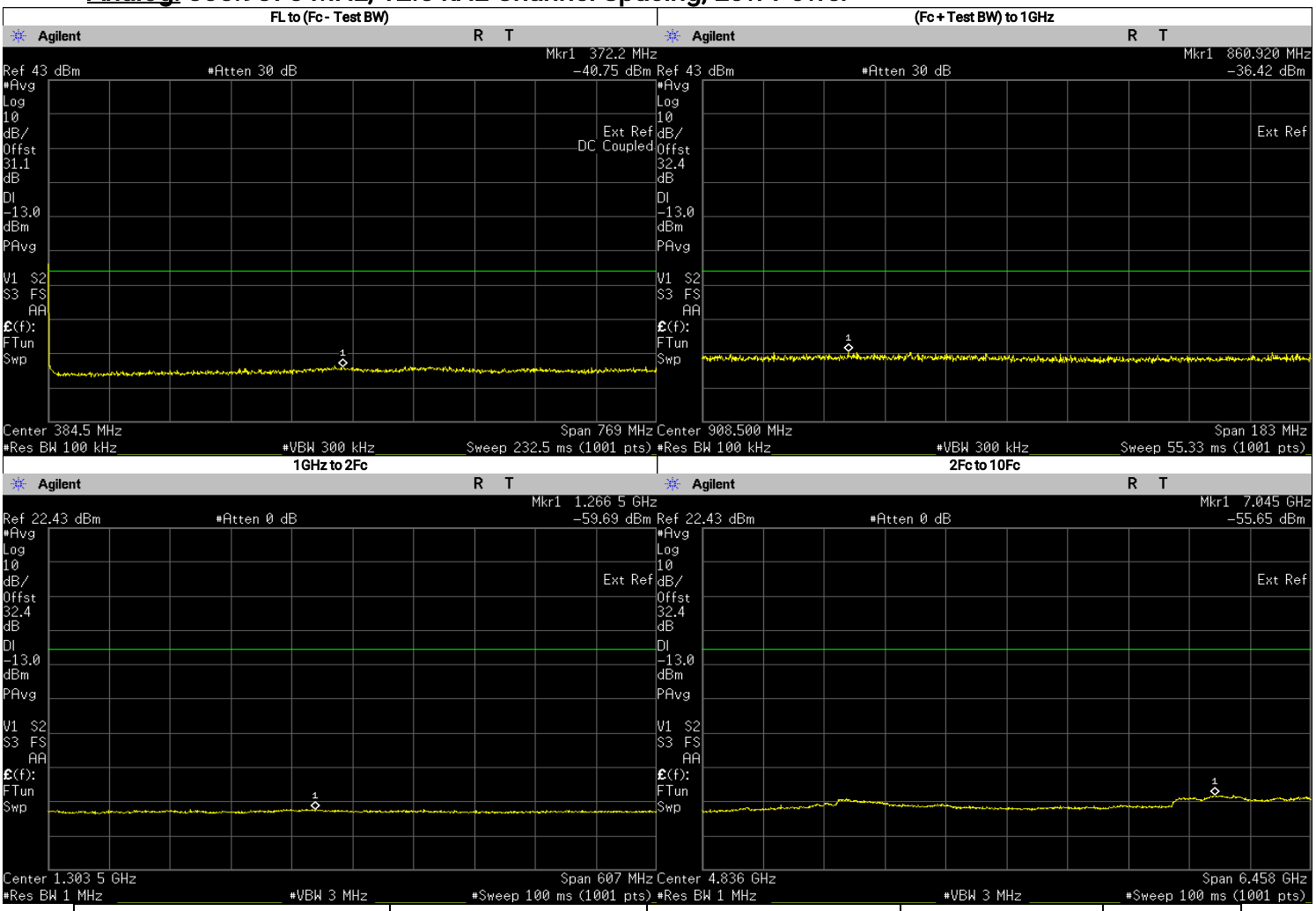
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	521.4000	-40.6470	-13	PASS
(Fc + Test BW) to <2Fc	931.9240	-36.4900	-13	PASS
2Fc to 1GHz	1246.1640	-59.8340	-13	PASS
1GHz to 10Fc	7022.2370	-55.7300	-13	PASS
	1609.8250	-60.5281	-13	PASS
	2414.7380	-59.6099	-13	PASS
	3219.6500	-57.6091	-13	PASS
	4024.5620	-59.1316	-13	PASS
	4829.4750	-59.8700	-13	PASS
	5634.3870	-59.7850	-13	PASS
	6439.3000	-59.4821	-13	PASS
	7244.2120	-56.5924	-13	PASS
	8049.1250	-57.0379	-13	PASS

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



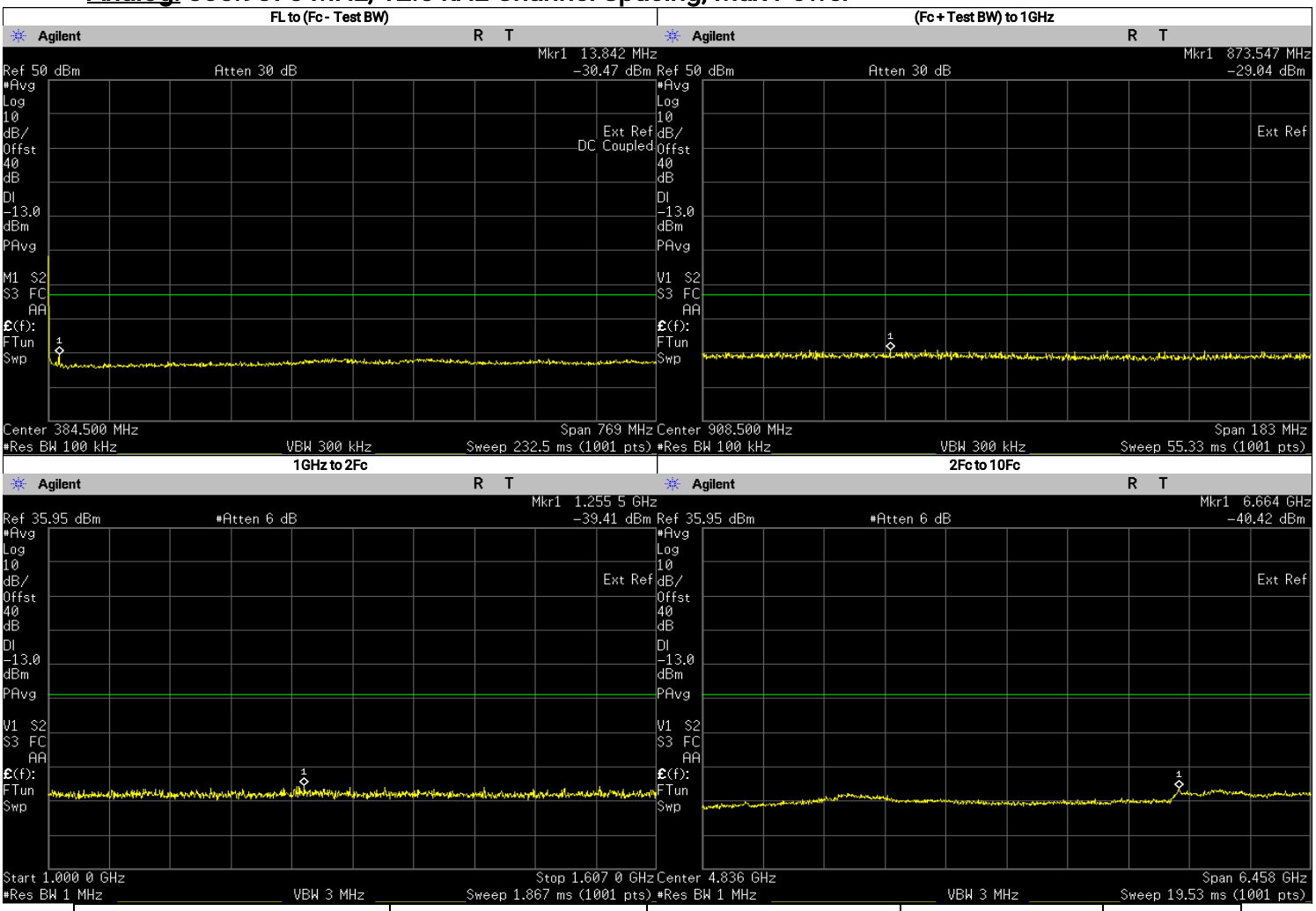
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	1.5380	-31.1900	-13	PASS
(Fc + Test BW) to <2Fc	833.6530	-28.9700	-13	PASS
2Fc to 1GHz	1272.2000	-39.9600	-13	PASS
1GHz to 10Fc	1765.9881	-27.2200	-13	PASS
	1609.8250	-46.1440	-13	PASS
	2414.7380	-45.3280	-13	PASS
	3219.6500	-42.8050	-13	PASS
	4024.5620	-44.1050	-13	PASS
	4829.4750	-44.8880	-13	PASS
	5634.3870	-44.5490	-13	PASS
	6439.3000	-44.7500	-13	PASS
	7244.2120	-41.1250	-13	PASS
	8049.1250	-41.9500	-13	PASS

Analog: 805.9875 MHz, 12.5 kHz Channel Spacing, Low Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	372.2000	-40.7510	-13	PASS
(Fc + Test BW) to <2Fc	860.9200	-36.4200	-13	PASS
2Fc to 1GHz	1266.4620	-59.6900	-13	PASS
1GHz to 10Fc	7044.5270	-55.6600	-13	PASS
	1611.9750	-60.5358	-13	PASS
	2417.9630	-59.3807	-13	PASS
	3223.9500	-57.3908	-13	PASS
	4029.9370	-58.7156	-13	PASS
	4835.9250	-59.7260	-13	PASS
	5641.9130	-59.4151	-13	PASS
	6447.9000	-59.0139	-13	PASS
	7253.8870	-56.0979	-13	PASS
	8059.8750	-56.8940	-13	PASS

Analog: 805.9875 MHz, 12.5 kHz Channel Spacing, Max Power

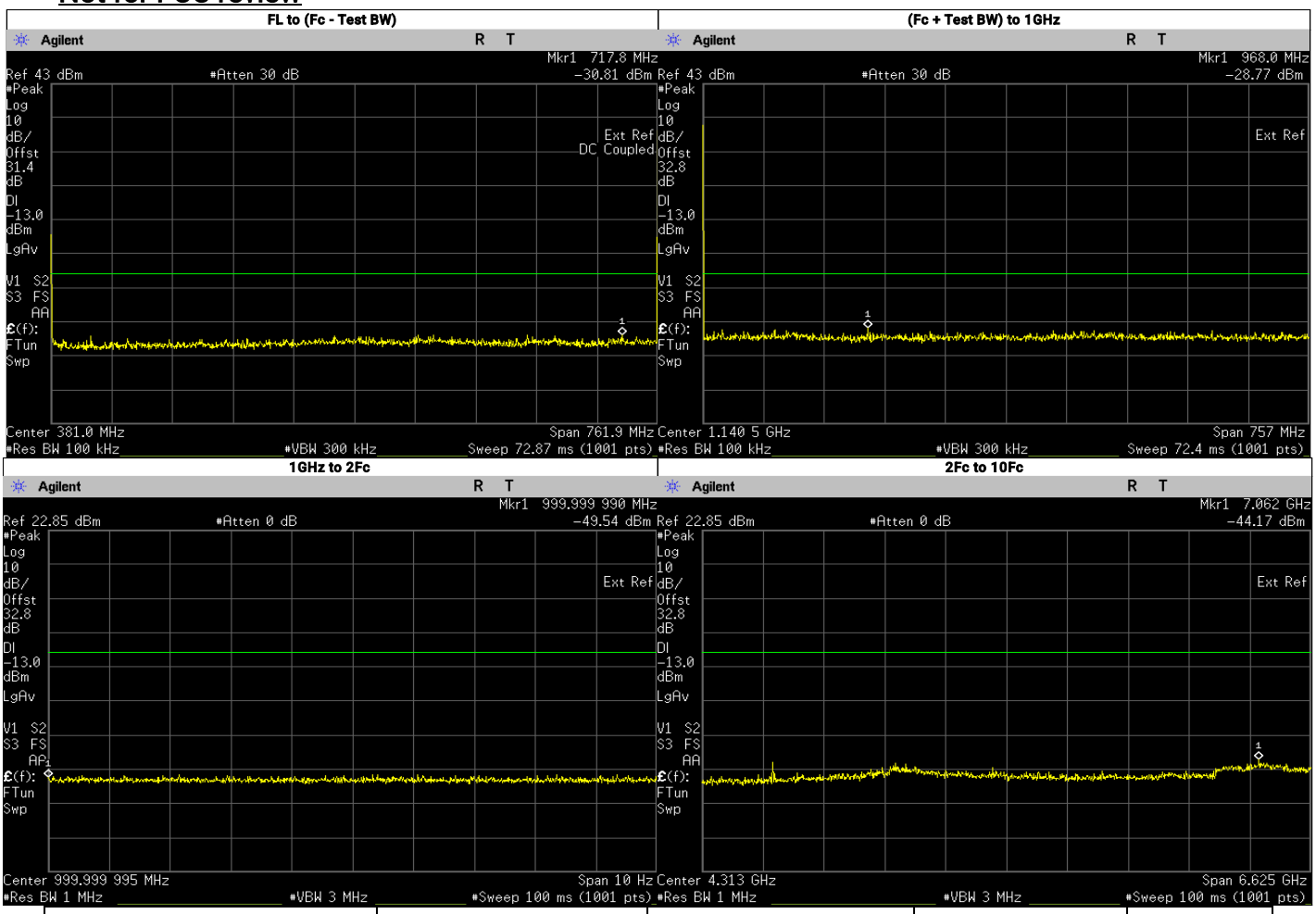


Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	13.8420	-30.4700	-13	PASS
(Fc + Test BW) to <2Fc	873.5470	-29.0400	-13	PASS
2Fc to 1GHz	1255.5000	-39.4100	-13	PASS
1GHz to 10Fc	6663.9553	-40.4200	-13	PASS
	1611.9750	-45.6790	-13	PASS
	2417.9630	-44.7960	-13	PASS
	3223.9500	-42.8170	-13	PASS
	4029.9370	-43.8930	-13	PASS
	4835.9250	-44.7960	-13	PASS
	5641.9130	-44.2960	-13	PASS
	6447.9000	-44.5610	-13	PASS
	7253.8870	-41.8840	-13	PASS
	8059.8750	-42.3690	-13	PASS

6.9.3. Test Result (Digital)

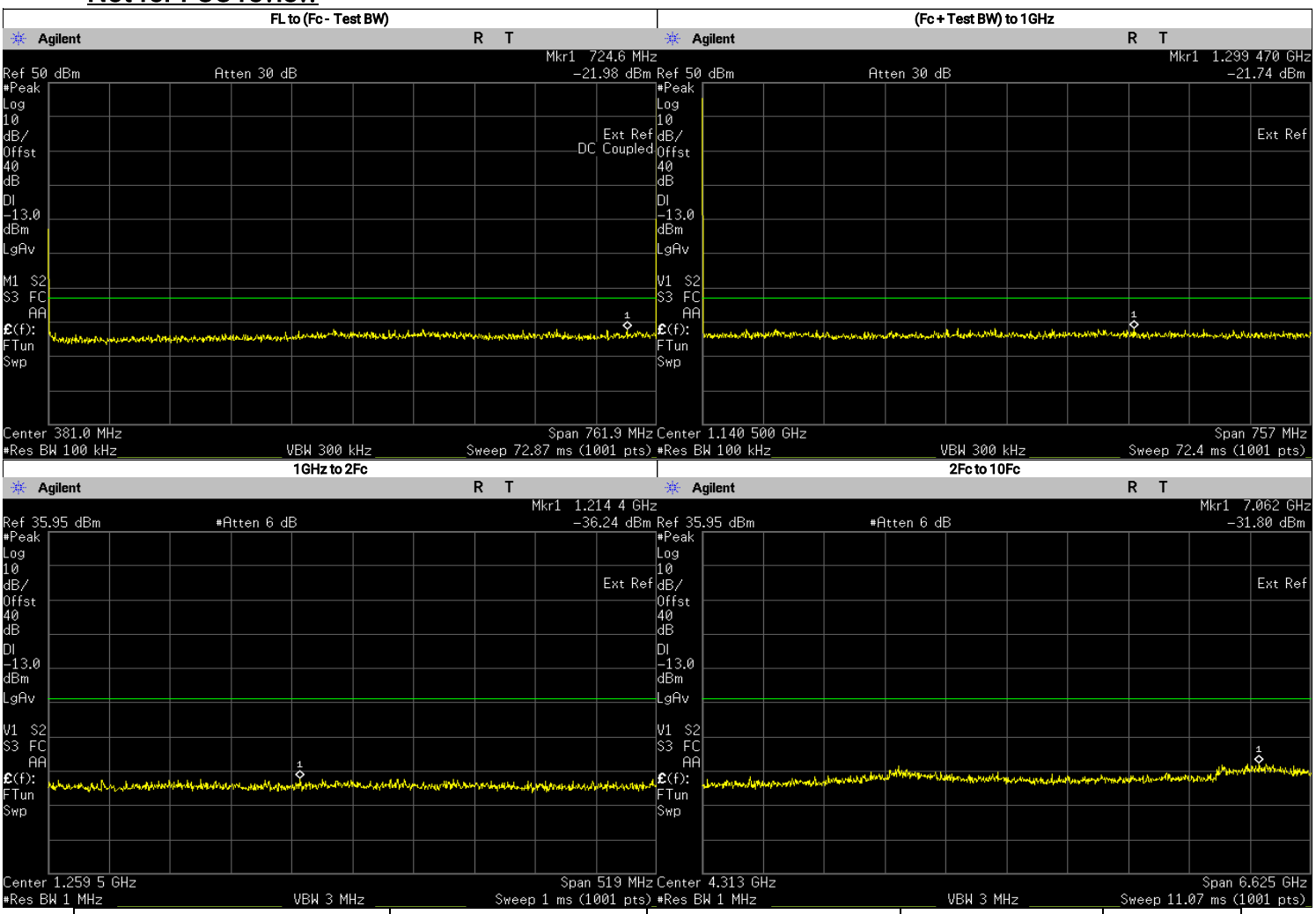
Digital: 762.0125 MHz, 12.5 kHz Channel Spacing, Low Power

Not for FCC review



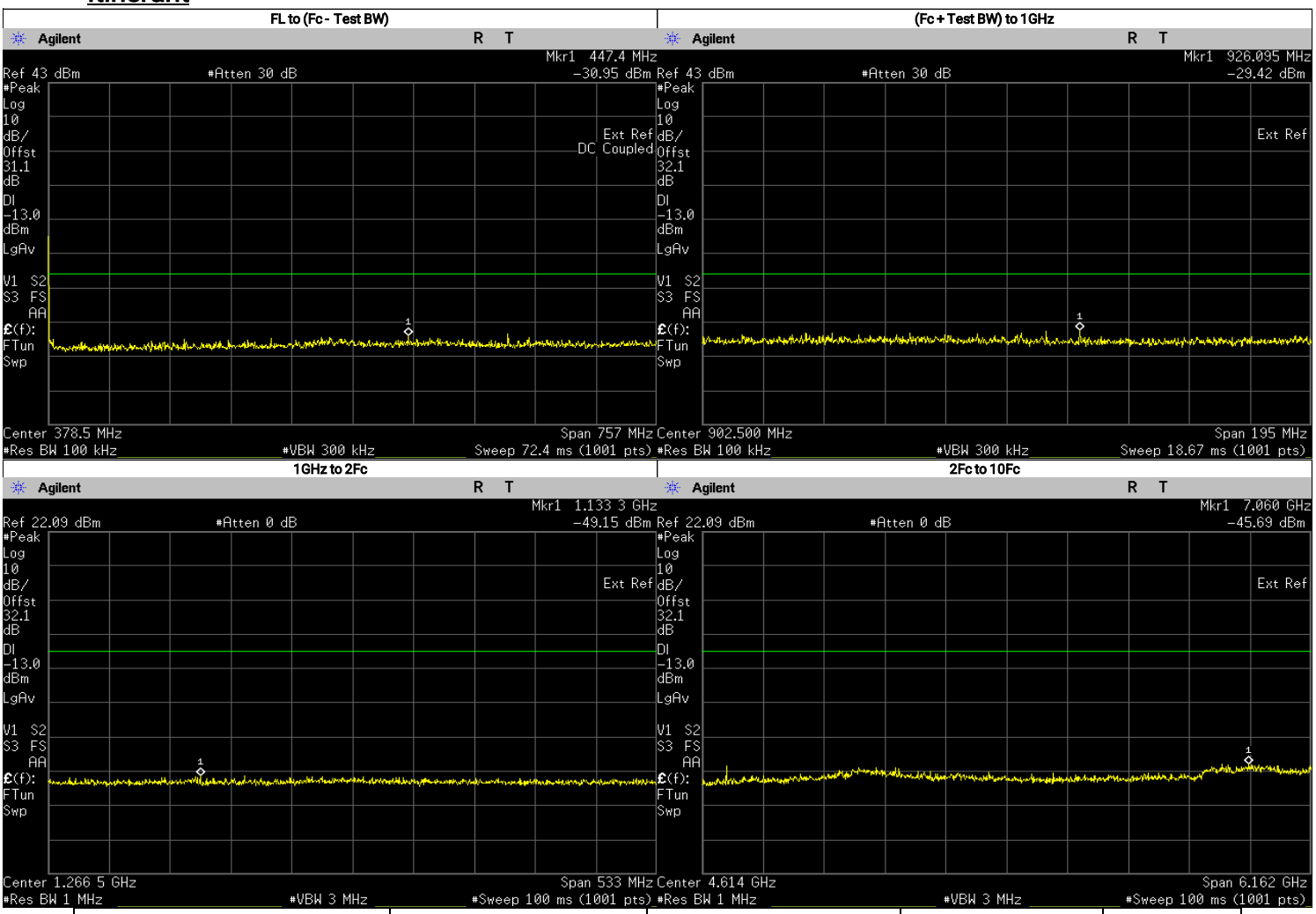
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	717.8000	-30.8120	-13	PASS
(Fc + Test BW) to <2Fc	967.9604	-28.7700	-13	PASS
2Fc to 1GHz	999.9999	-49.5400	-13	PASS
1GHz to 10Fc	7061.9890	-44.1700	-13	PASS
	1524.0250	-50.6918	-13	PASS
	2286.0370	-48.9875	-13	PASS
	3048.0500	-46.5827	-13	PASS
	3810.0620	-49.0136	-13	PASS
	4572.0750	-48.8667	-13	PASS
	5334.0870	-49.7558	-13	PASS
	6096.1000	-48.9844	-13	PASS
	6858.1130	-46.4909	-13	PASS
	7620.1250	-46.9703	-13	PASS

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



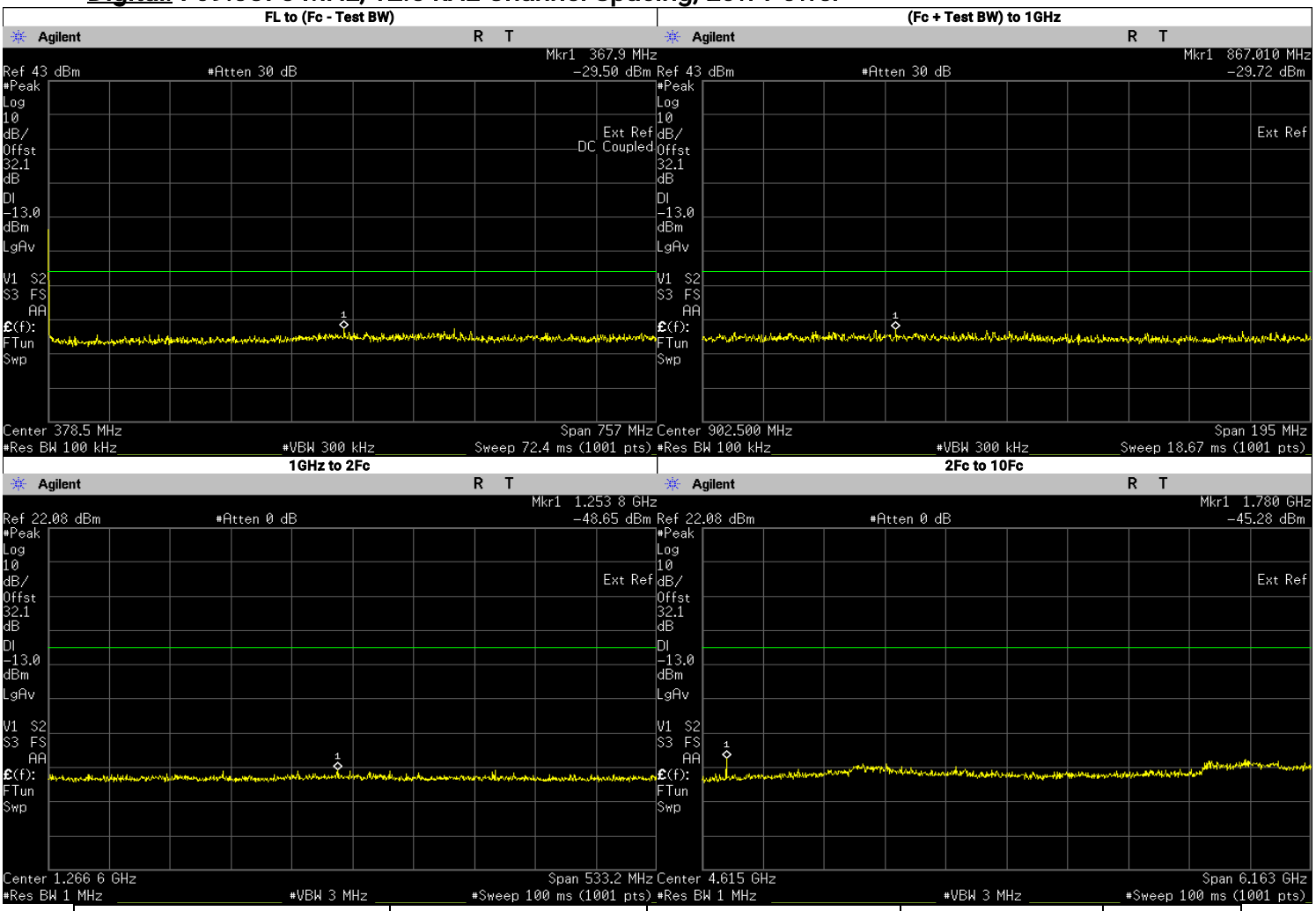
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	724.6000	-21.9800	-13	PASS
(Fc + Test BW) to <2Fc	1299.4700	-21.7400	-13	PASS
2Fc to 1GHz	1214.4000	-36.2400	-13	PASS
1GHz to 10Fc	7061.9890	-31.8000	-13	PASS
	1524.0250	-35.6400	-13	PASS
	2286.0370	-38.0500	-13	PASS
	3048.0500	-35.2100	-13	PASS
	3810.0620	-35.8500	-13	PASS
	4572.0750	-37.3700	-13	PASS
	5334.0870	-36.3600	-13	PASS
	6096.1000	-36.8100	-13	PASS
	6858.1130	-34.4400	-13	PASS
	7620.1250	-35.2800	-13	PASS

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



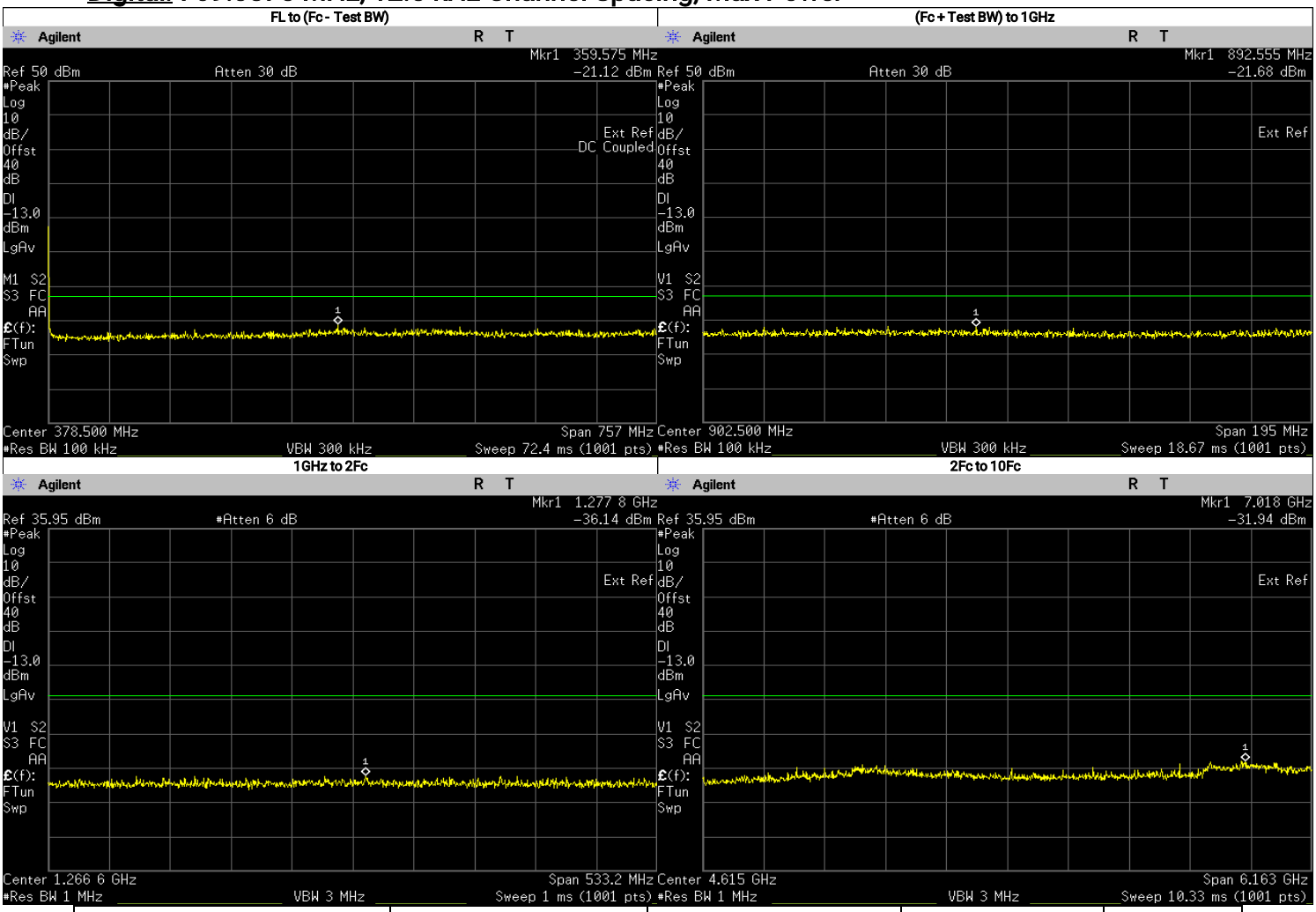
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	447.4000	-30.9480	-13	PASS
(Fc + Test BW) to <2Fc	926.0950	-29.4200	-13	PASS
2Fc to 1GHz	1133.2560	-49.1500	-13	PASS
1GHz to 10Fc	7060.4290	-45.6900	-13	PASS
	1538.0250	-51.5198	-13	PASS
	2307.0370	-51.0540	-13	PASS
	3076.0500	-48.0233	-13	PASS
	3845.0620	-49.4543	-13	PASS
	4614.0750	-50.3770	-13	PASS
	5383.0870	-50.3630	-13	PASS
	6152.1000	-49.4332	-13	PASS
	6921.1130	-48.3667	-13	PASS
	7690.1250	-46.5659	-13	PASS

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



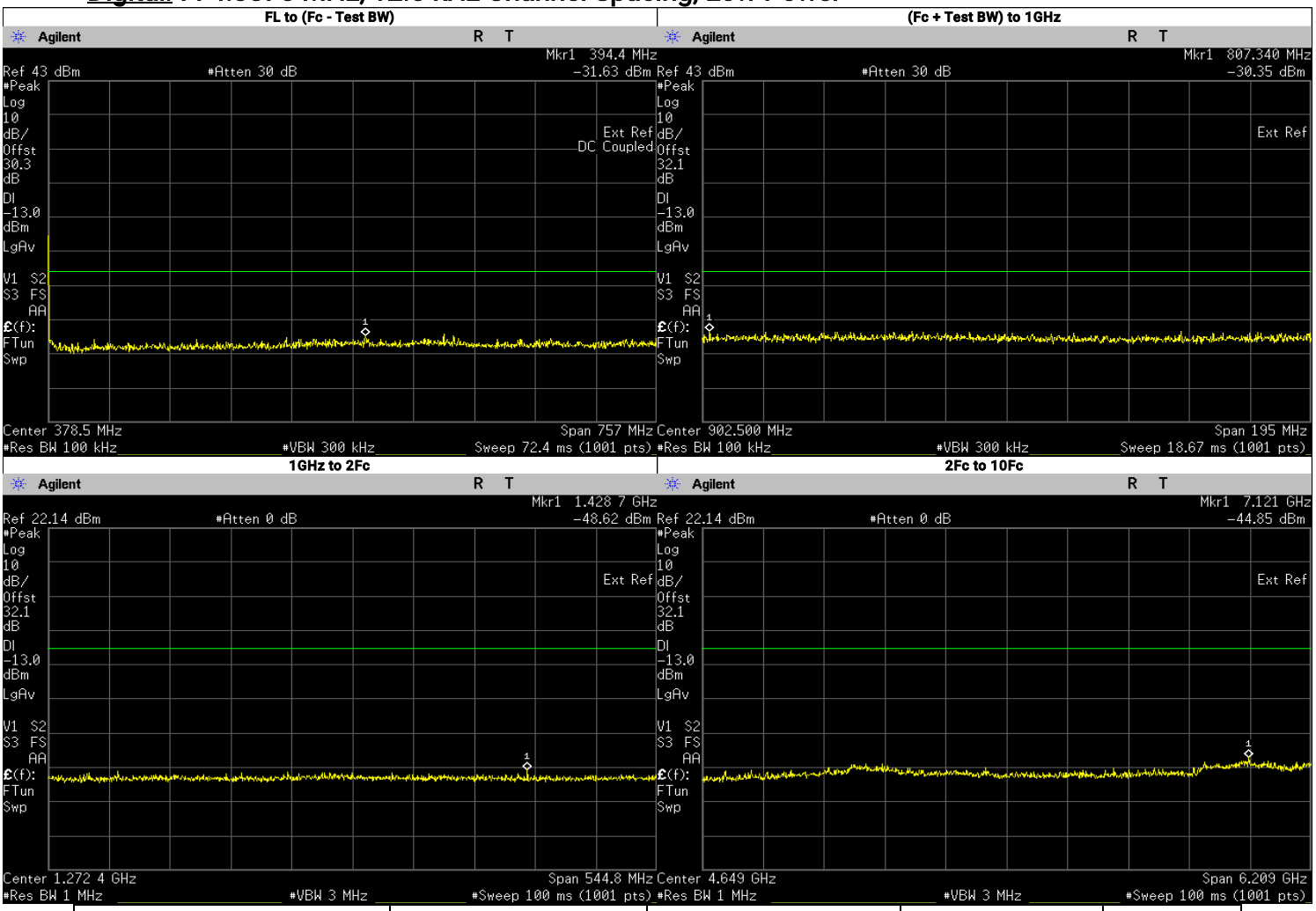
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	367.9000	-29.4980	-13	PASS
(Fc + Test BW) to <2Fc	867.0100	-29.7200	-13	PASS
2Fc to 1GHz	1253.7910	-48.6500	-13	PASS
1GHz to 10Fc	1779.6830	-45.2800	-13	PASS
	1538.1750	-50.8112	-13	PASS
	2307.2620	-50.6243	-13	PASS
	3076.3500	-47.9547	-13	PASS
	3845.4370	-49.5338	-13	PASS
	4614.5250	-49.9620	-13	PASS
	5383.6130	-49.5066	-13	PASS
	6152.7000	-49.0697	-13	PASS
	6921.7880	-47.5173	-13	PASS
	7690.8750	-48.3050	-13	PASS

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



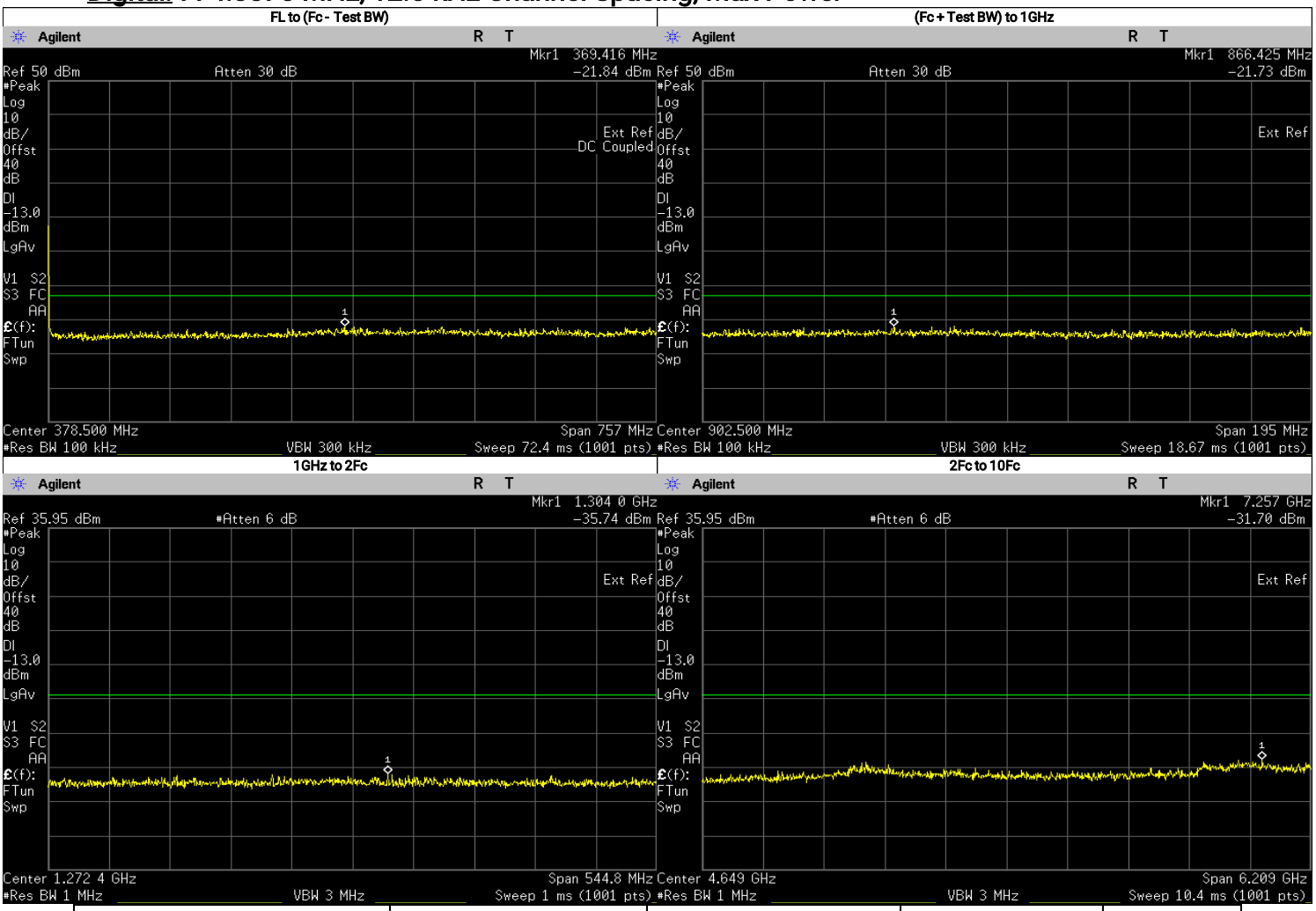
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	359.5750	-21.1200	-13	PASS
(Fc + Test BW) to <2Fc	892.5550	-21.6800	-13	PASS
2Fc to 1GHz	1277.8000	-36.1400	-13	PASS
1GHz to 10Fc	7017.9790	-31.9400	-13	PASS
	1538.1750	-37.0120	-13	PASS
	2307.2620	-37.6430	-13	PASS
	3076.3500	-34.6980	-13	PASS
	3845.4370	-35.2490	-13	PASS
	4614.5250	-37.0140	-13	PASS
	5383.6130	-36.5590	-13	PASS
	6152.7000	-36.6310	-13	PASS
	6921.7880	-33.9690	-13	PASS
	7690.8750	-34.7620	-13	PASS

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



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	394.4000	-31.6280	-13	PASS
(Fc + Test BW) to <2Fc	807.3400	-30.3500	-13	PASS
2Fc to 1GHz	1428.7380	-48.6200	-13	PASS
1GHz to 10Fc	7120.5470	-44.8500	-13	PASS
	1549.7750	-51.5003	-13	PASS
	2324.6620	-50.3088	-13	PASS
	3099.5500	-47.3106	-13	PASS
	3874.4370	-49.9996	-13	PASS
	4649.3250	-50.6620	-13	PASS
	5424.2120	-48.7901	-13	PASS
	6199.1000	-48.5660	-13	PASS
	6973.9880	-47.2651	-13	PASS
	7748.8750	-47.2737	-13	PASS

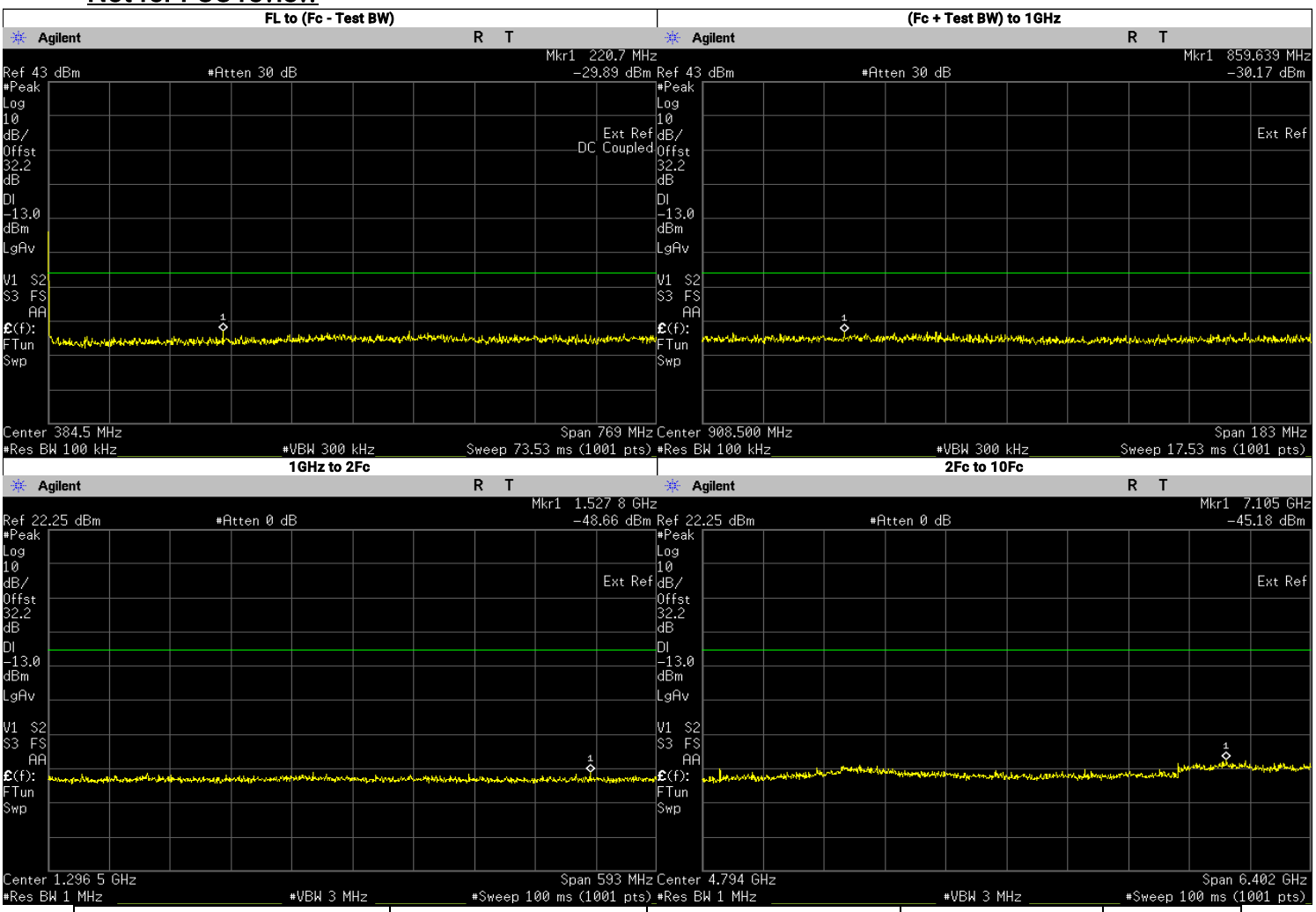
Digital: 774.8875 MHz, 12.5 kHz Channel Spacing, Max Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	369.4160	-21.8400	-13	PASS
(Fc + Test BW) to <2Fc	866.4250	-21.7300	-13	PASS
2Fc to 1GHz	1304.0012	-35.7400	-13	PASS
1GHz to 10Fc	7257.0000	-31.7000	-13	PASS
	1549.7750	-38.2510	-13	PASS
	2324.6620	-35.0260	-13	PASS
	3099.5500	-33.4160	-13	PASS
	3874.4370	-35.1920	-13	PASS
	4649.3250	-37.5120	-13	PASS
	5424.2120	-35.6580	-13	PASS
	6199.1000	-34.9940	-13	PASS
	6973.9880	-34.2640	-13	PASS
	7748.8750	-33.6570	-13	PASS

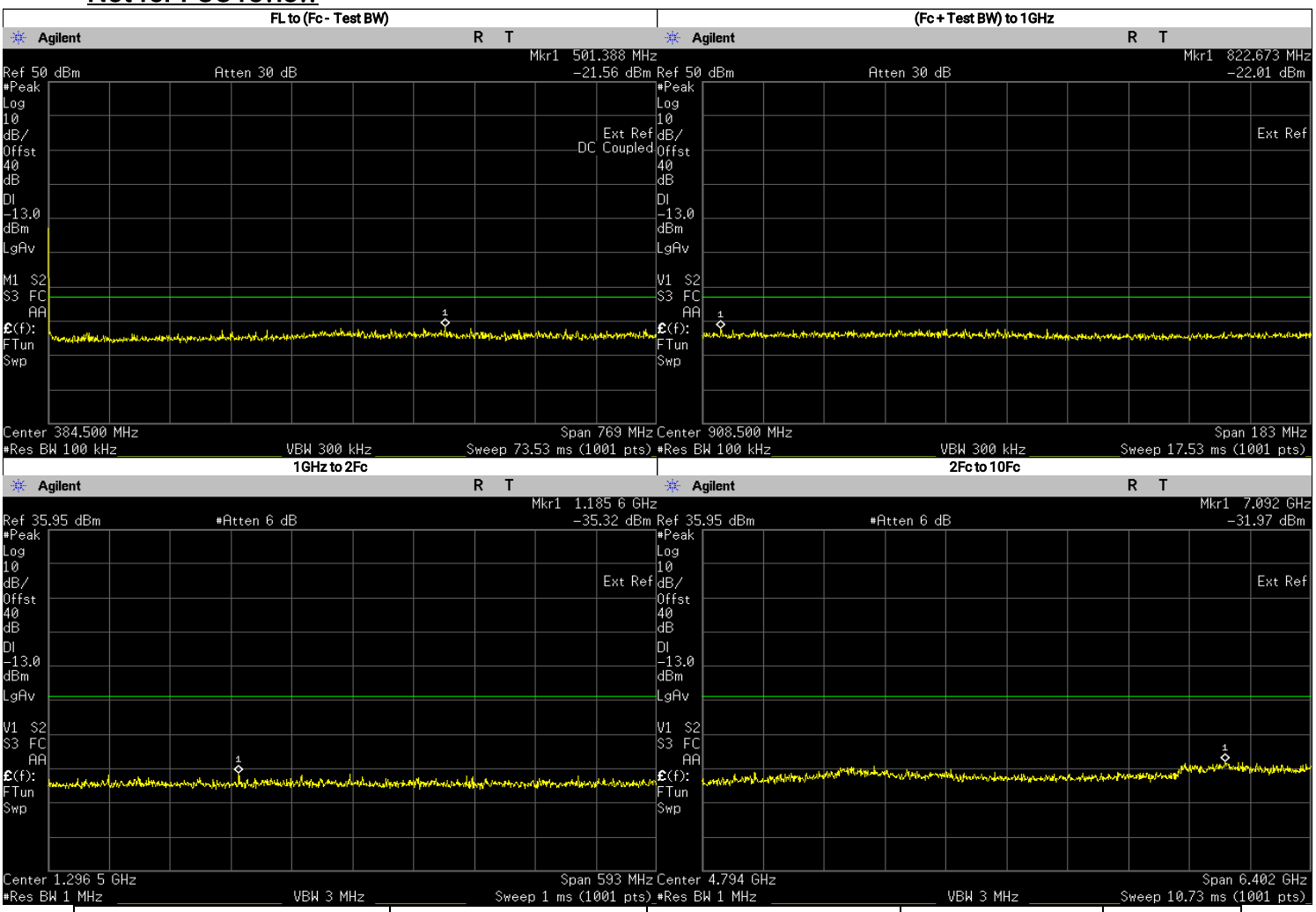
Digital: 799.0125 MHz, 12.5 kHz Channel Spacing, Low Power

Not for FCC review



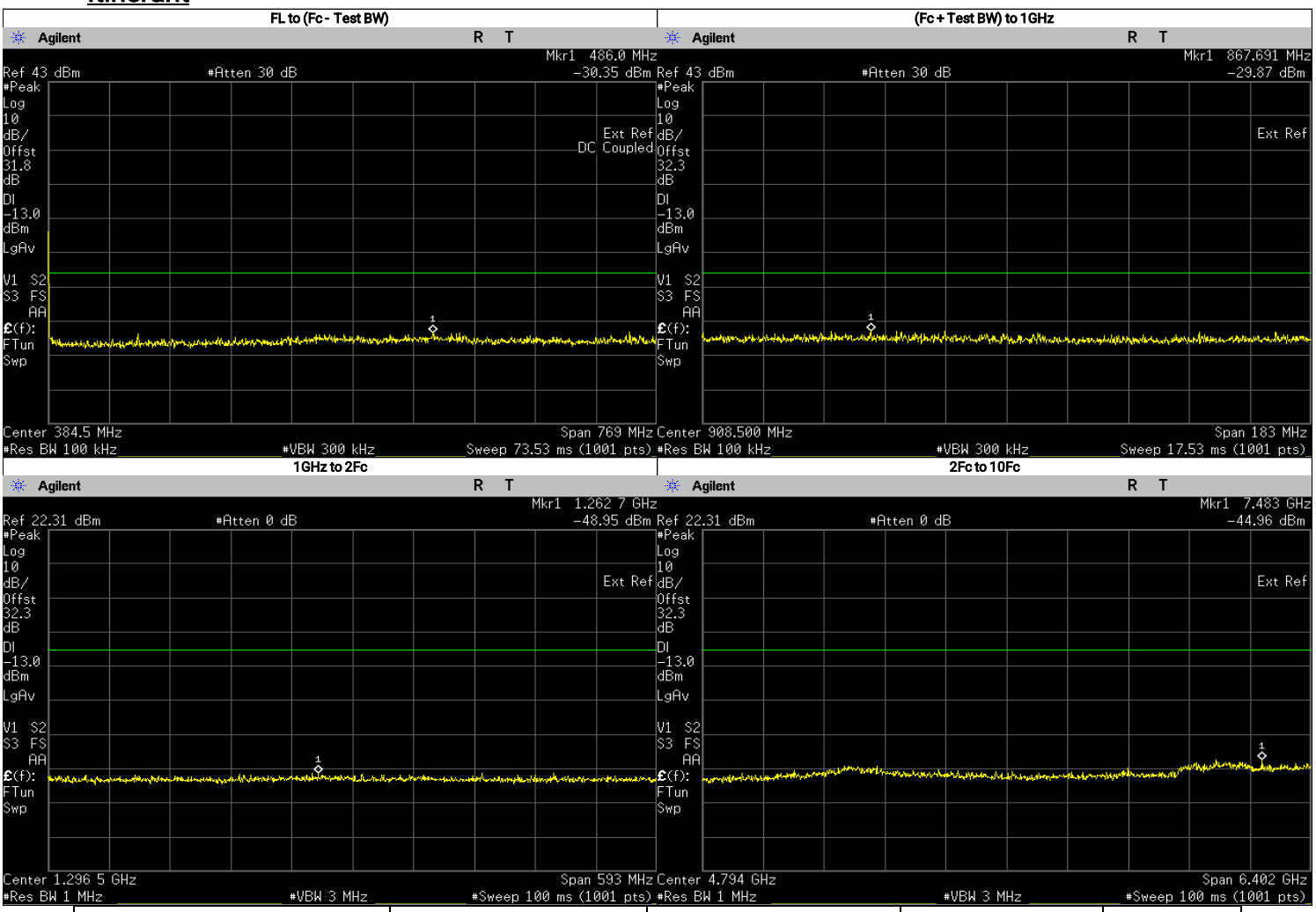
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	220.7000	-29.8910	-13	PASS
(Fc + Test BW) to <2Fc	859.6390	-30.1700	-13	PASS
2Fc to 1GHz	1527.7920	-48.6600	-13	PASS
1GHz to 10Fc	7105.2330	-45.1800	-13	PASS
	1598.0250	-51.2195	-13	PASS
	2397.0370	-50.1368	-13	PASS
	3196.0500	-47.7089	-13	PASS
	3995.0620	-49.4864	-13	PASS
	4794.0750	-50.1480	-13	PASS
	5593.0870	-50.1588	-13	PASS
	6392.1000	-49.5930	-13	PASS
	7191.1130	-46.7971	-13	PASS
	7990.1250	-47.2579	-13	PASS

Digital: 799.0125 MHz, 12.5 kHz Channel Spacing, Max Power
Not for FCC review



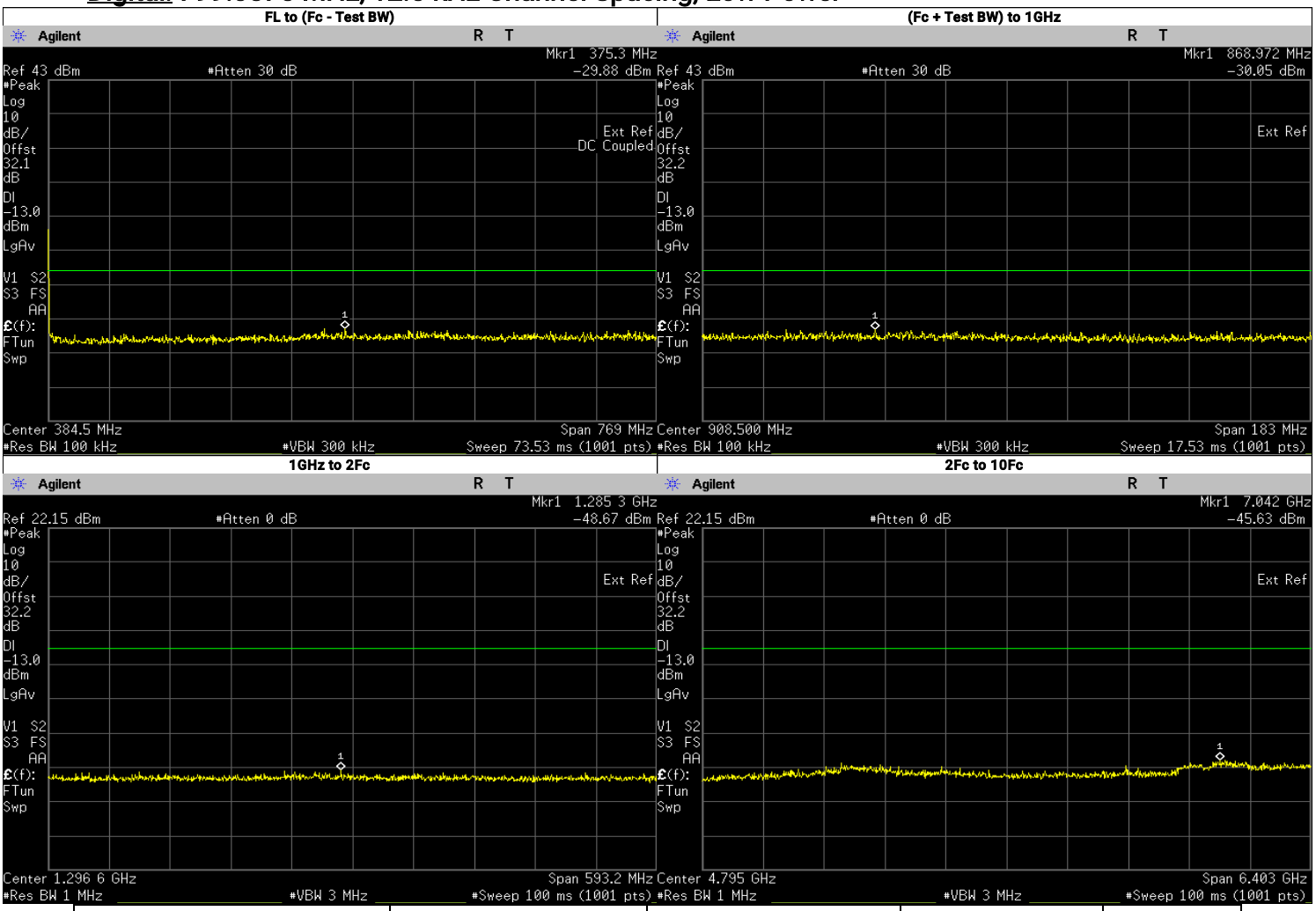
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	501.3880	-21.5600	-13	PASS
(Fc + Test BW) to <2Fc	822.6730	-22.0100	-13	PASS
2Fc to 1GHz	1185.6000	-35.3200	-13	PASS
1GHz to 10Fc	7092.0000	-31.9700	-13	PASS
	1598.0250	-37.5500	-13	PASS
	2397.0370	-36.4830	-13	PASS
	3196.0500	-35.8920	-13	PASS
	3995.0620	-35.1640	-13	PASS
	4794.0750	-36.2850	-13	PASS
	5593.0870	-36.3780	-13	PASS
	6392.1000	-36.0140	-13	PASS
	7191.1130	-34.0570	-13	PASS
	7990.1250	-33.7650	-13	PASS

Digital: 799.0125 MHz, 12.5 kHz Channel Spacing, Max Power Itinerant



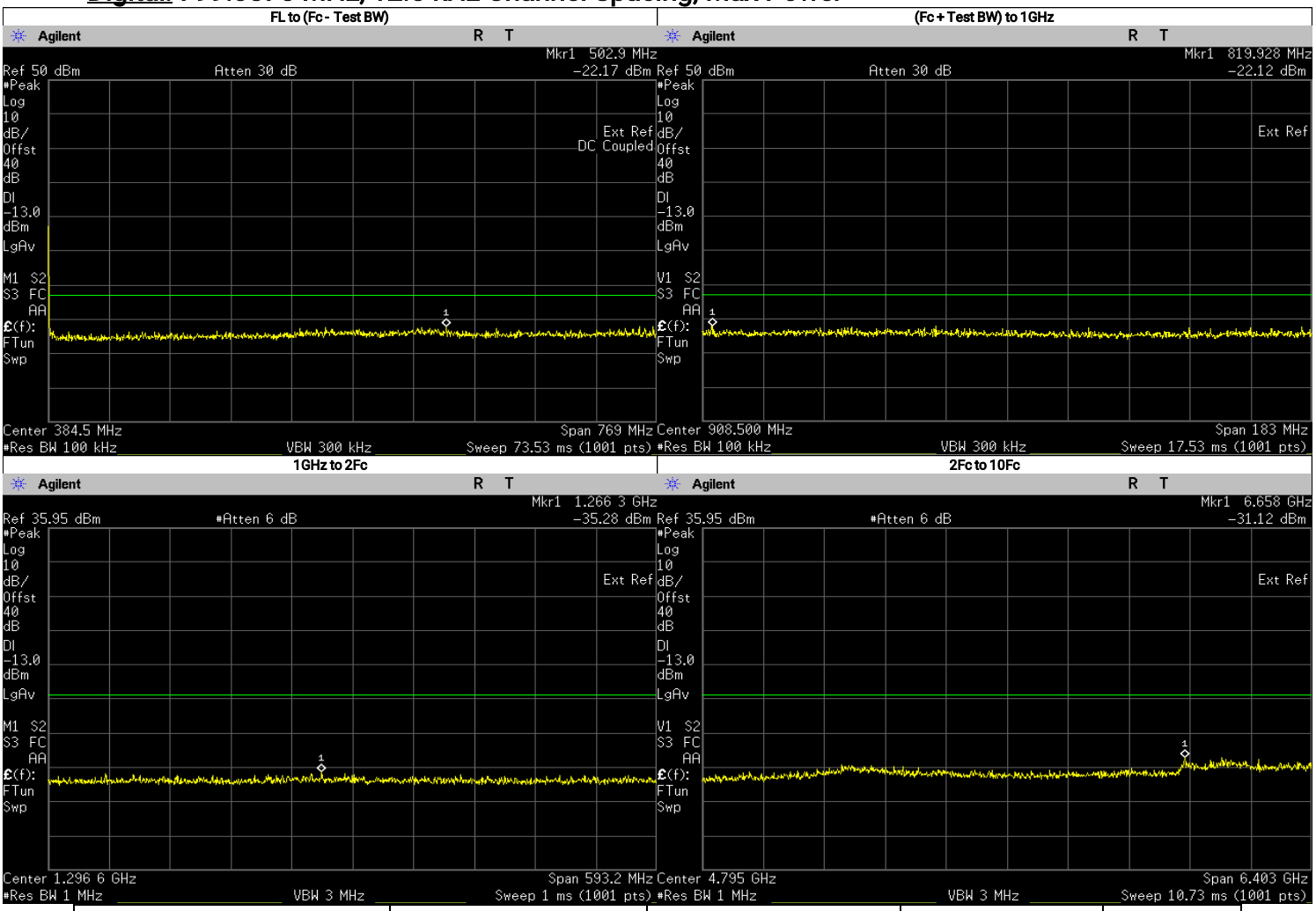
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	486.0000	-30.3500	-13	PASS
(Fc + Test BW) to <2Fc	867.6910	-29.8700	-13	PASS
2Fc to 1GHz	1262.7100	-48.9500	-13	PASS
1GHz to 10Fc	7482.9570	-44.9600	-13	PASS
	1598.0250	-50.6106	-13	PASS
	2397.0370	-49.6833	-13	PASS
	3196.0500	-47.7194	-13	PASS
	3995.0620	-50.0962	-13	PASS
	4794.0750	-50.6520	-13	PASS
	5593.0870	-50.4904	-13	PASS
	6392.1000	-49.6895	-13	PASS
	7191.1130	-46.4955	-13	PASS
	7990.1250	-47.0002	-13	PASS

Digital: 799.0875 MHz, 12.5 kHz Channel Spacing, Low Power



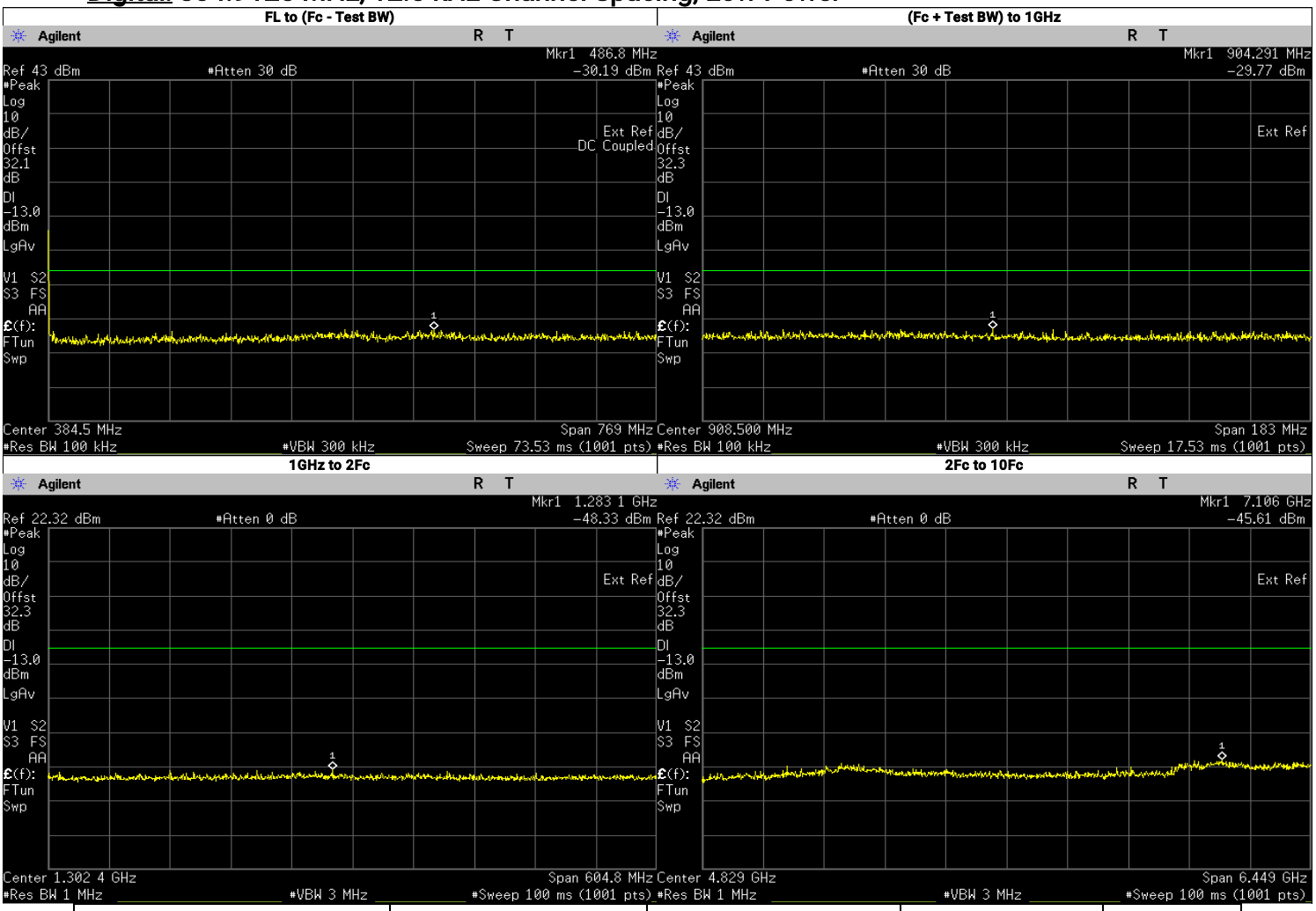
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	375.3000	-29.8780	-13	PASS
(Fc + Test BW) to <2Fc	868.9720	-30.0500	-13	PASS
2Fc to 1GHz	1285.3170	-48.6700	-13	PASS
1GHz to 10Fc	7041.8730	-45.6300	-13	PASS
	1598.1750	-51.4871	-13	PASS
	2397.2620	-50.8295	-13	PASS
	3196.3500	-47.7759	-13	PASS
	3995.4370	-49.3123	-13	PASS
	4794.5250	-50.1630	-13	PASS
	5593.6130	-50.2419	-13	PASS
	6392.7000	-49.5896	-13	PASS
	7191.7880	-46.7654	-13	PASS
	7990.8750	-47.4508	-13	PASS

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



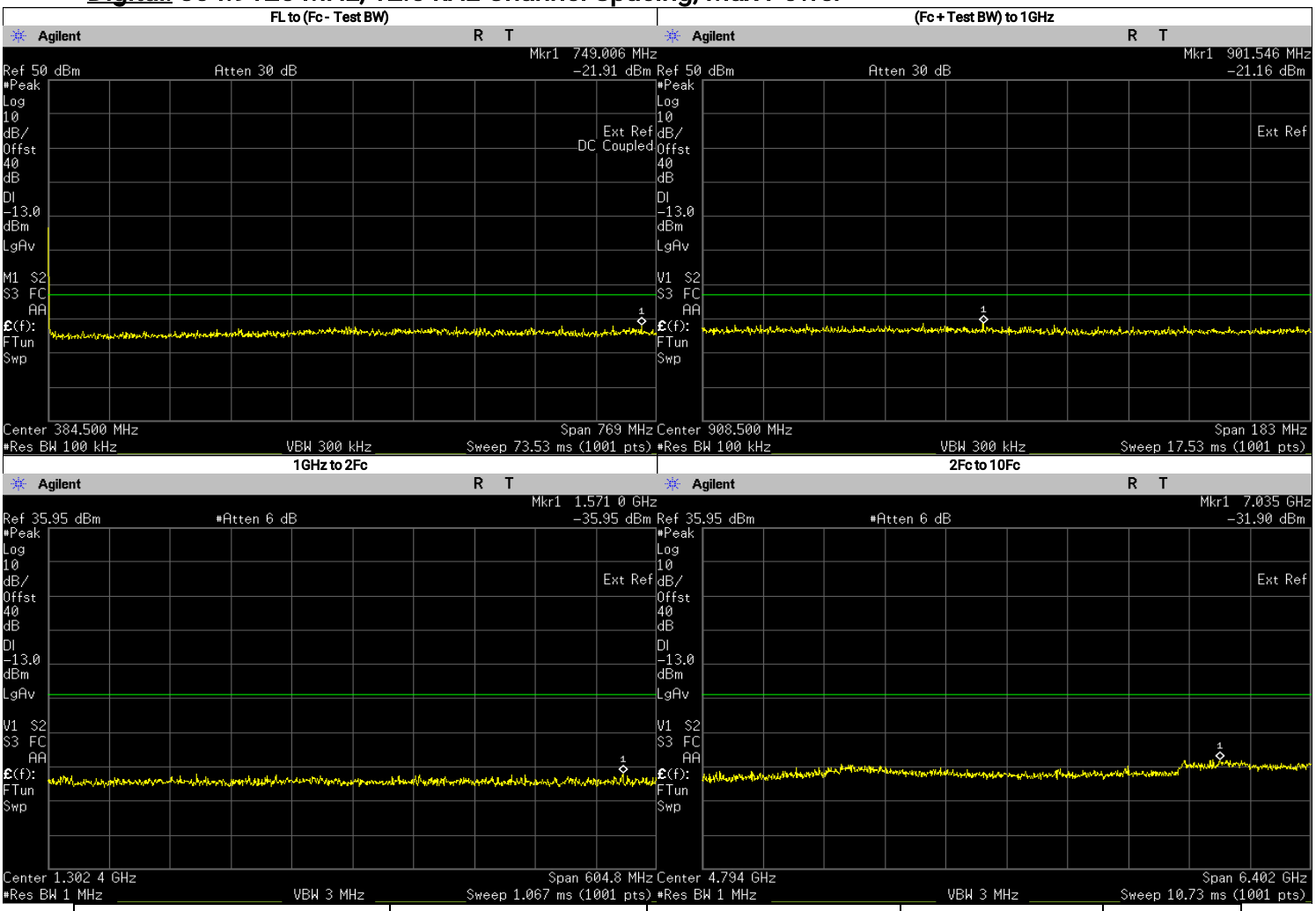
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	502.9000	-22.1700	-13	PASS
(Fc + Test BW) to <2Fc	819.9280	-22.1200	-13	PASS
2Fc to 1GHz	1266.3000	-35.2800	-13	PASS
1GHz to 10Fc	6658.0000	-31.1200	-13	PASS
	1598.1750	-37.9940	-13	PASS
	2397.2620	-36.4330	-13	PASS
	3196.3500	-35.0080	-13	PASS
	3995.4370	-35.6070	-13	PASS
	4794.5250	-36.3510	-13	PASS
	5593.6130	-36.5980	-13	PASS
	6392.7000	-35.2460	-13	PASS
	7191.7880	-32.7340	-13	PASS
	7990.8750	-32.8090	-13	PASS

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



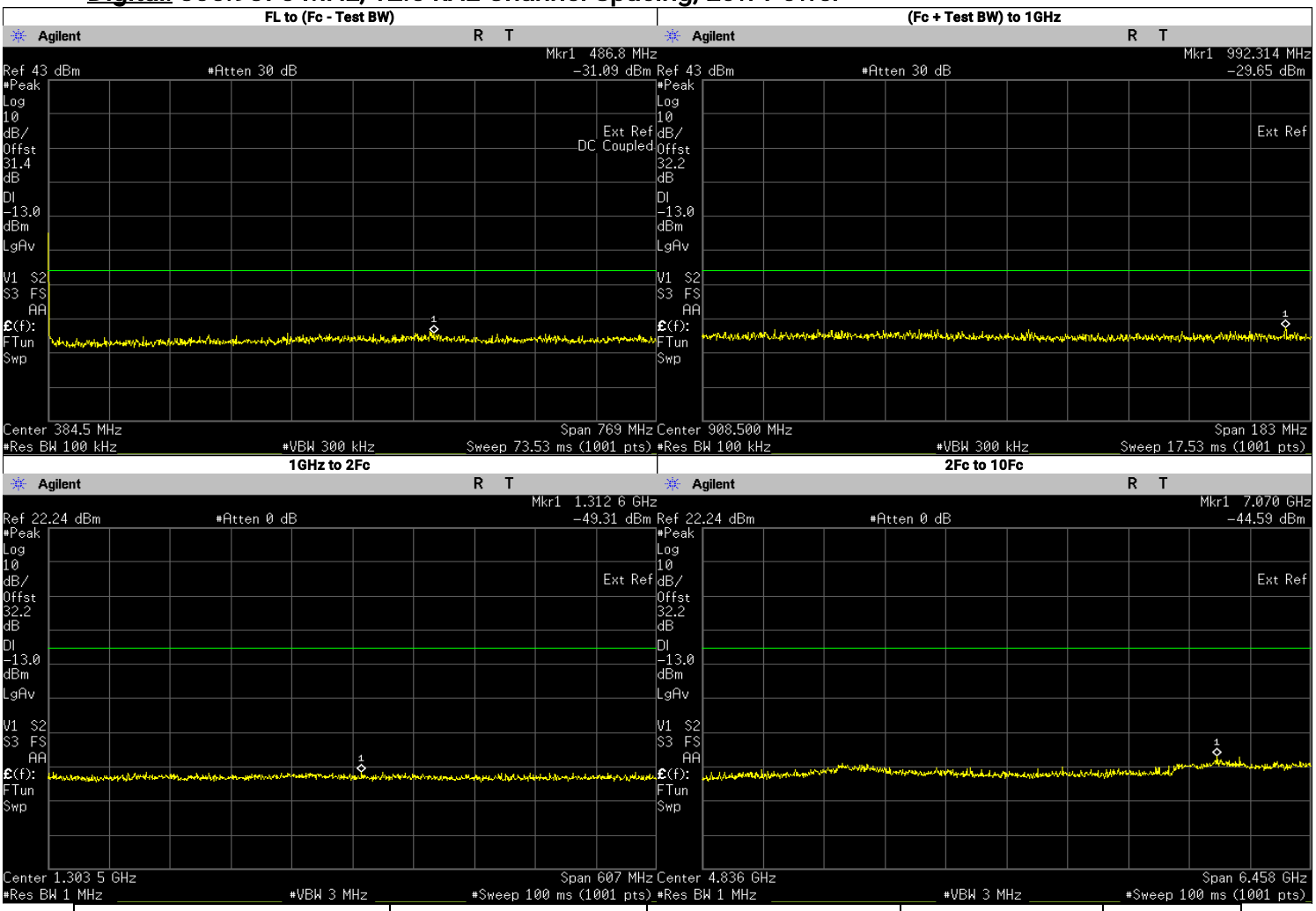
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	486.8000	-30.1860	-13	PASS
(Fc + Test BW) to <2Fc	904.2910	-29.7700	-13	PASS
2Fc to 1GHz	904.2910	-29.7700	-13	PASS
1GHz to 10Fc	7106.0780	-45.6100	-13	PASS
	1609.8250	-50.8481	-13	PASS
	2414.7380	-50.3314	-13	PASS
	3219.6500	-48.5462	-13	PASS
	4024.5620	-49.3564	-13	PASS
	4829.4750	-49.7450	-13	PASS
	5634.3870	-50.2562	-13	PASS
	6439.3000	-49.6002	-13	PASS
	7244.2120	-47.2999	-13	PASS
	8049.1250	-47.2176	-13	PASS

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



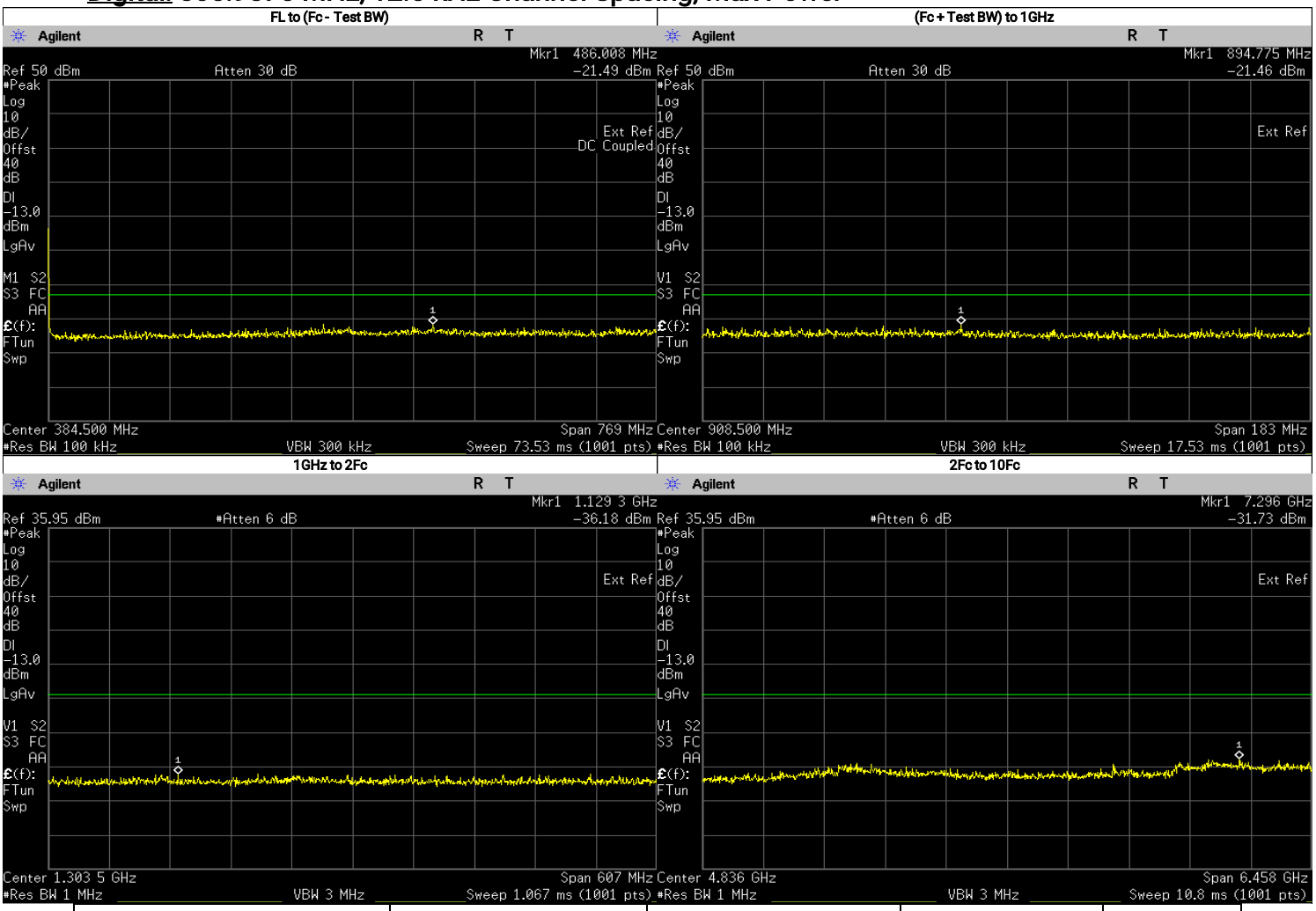
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	749.0061	-21.9100	-13	PASS
(Fc + Test BW) to <2Fc	901.5460	-21.1600	-13	PASS
2Fc to 1GHz	1571.0250	-35.9500	-13	PASS
1GHz to 10Fc	7035.0000	-31.9000	-13	PASS
	1609.8250	-38.2590	-13	PASS
	2414.7380	-37.0110	-13	PASS
	3219.6500	-34.6820	-13	PASS
	4024.5620	-35.4870	-13	PASS
	4829.4750	-35.8830	-13	PASS
	5634.3870	-36.9850	-13	PASS
	6439.3000	-35.6200	-13	PASS
	7244.2120	-33.3960	-13	PASS
	8049.1250	-33.3510	-13	PASS

Digital: 805.9875 MHz, 12.5 kHz Channel Spacing, Low Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	486.8000	-31.0930	-13	PASS
(Fc + Test BW) to <2Fc	992.3140	-29.6500	-13	PASS
2Fc to 1GHz	1312.5920	-49.3100	-13	PASS
1GHz to 10Fc	7070.3580	-44.5900	-13	PASS
	1611.9750	-51.4765	-13	PASS
	2417.9630	-50.0116	-13	PASS
	3223.9500	-47.8525	-13	PASS
	4029.9370	-49.1451	-13	PASS
	4835.9250	-49.4310	-13	PASS
	5641.9130	-50.1627	-13	PASS
	6447.9000	-48.9324	-13	PASS
	7253.8870	-47.5078	-13	PASS
	8059.8750	-47.4418	-13	PASS

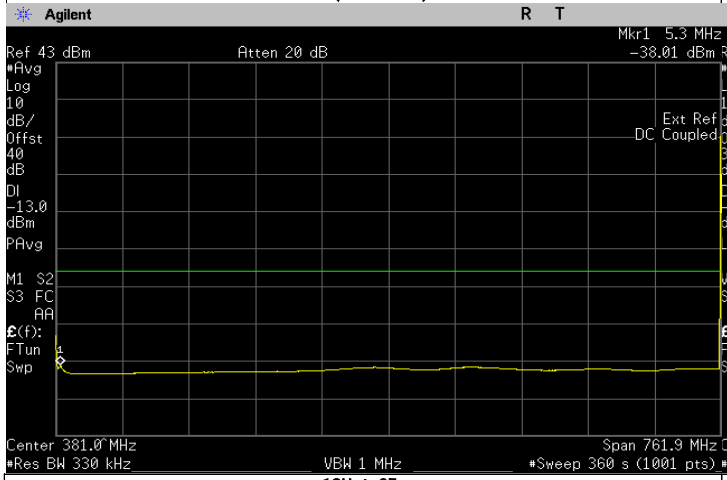
Digital: 805.9875 MHz, 12.5 kHz Channel Spacing, Max Power



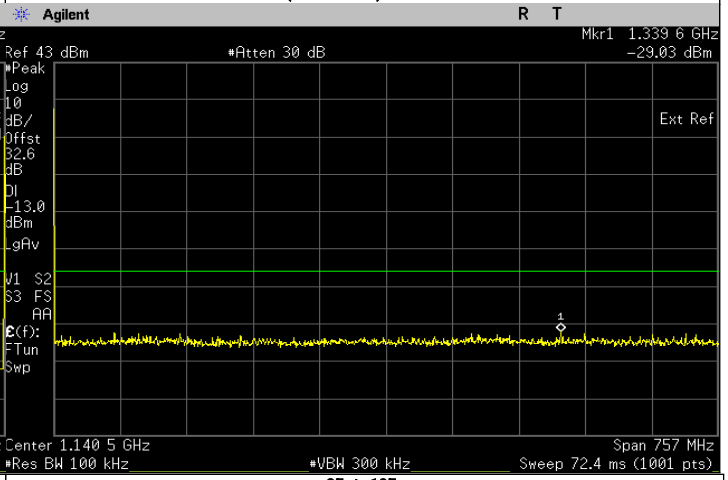
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	486.0080	-21.4900	-13	PASS
(Fc + Test BW) to <2Fc	894.7750	-21.4600	-13	PASS
2Fc to 1GHz	1129.3000	-36.1800	-13	PASS
1GHz to 10Fc	7295.9770	-31.7300	-13	PASS
	1611.9750	-38.1900	-13	PASS
	2417.9630	-36.7060	-13	PASS
	3223.9500	-34.8790	-13	PASS
	4029.9370	-35.5020	-13	PASS
	4835.9250	-36.1230	-13	PASS
	5641.9130	-36.5390	-13	PASS
	6447.9000	-36.0540	-13	PASS
	7253.8870	-33.7940	-13	PASS
	8059.8750	-35.2340	-13	PASS

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

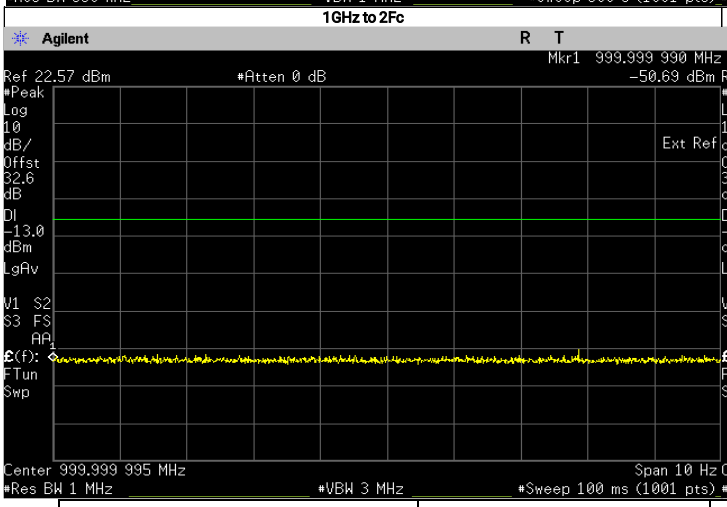
FL to (Fc - Test BW)



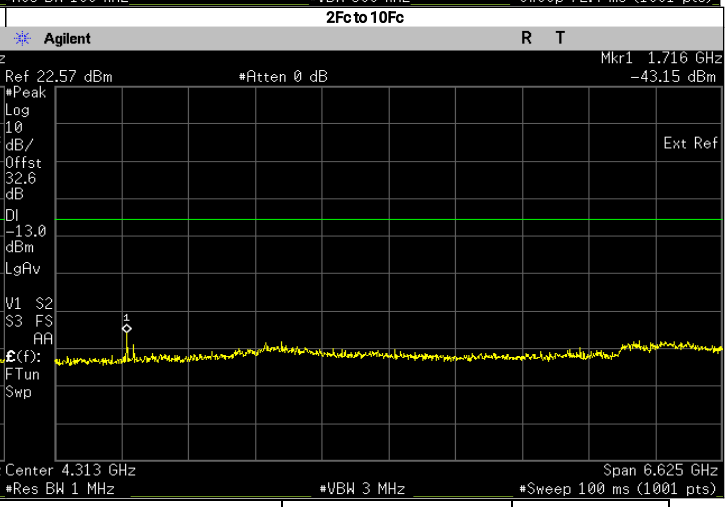
(Fc + Test BW) to 1GHz



1GHz to 2Fc

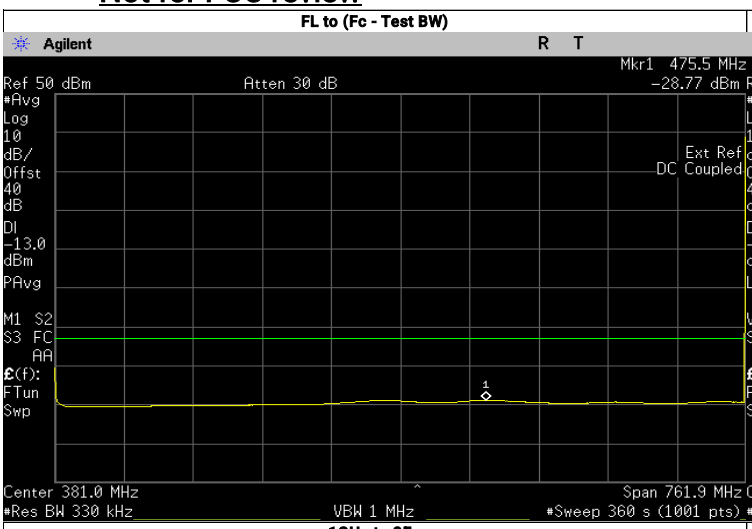


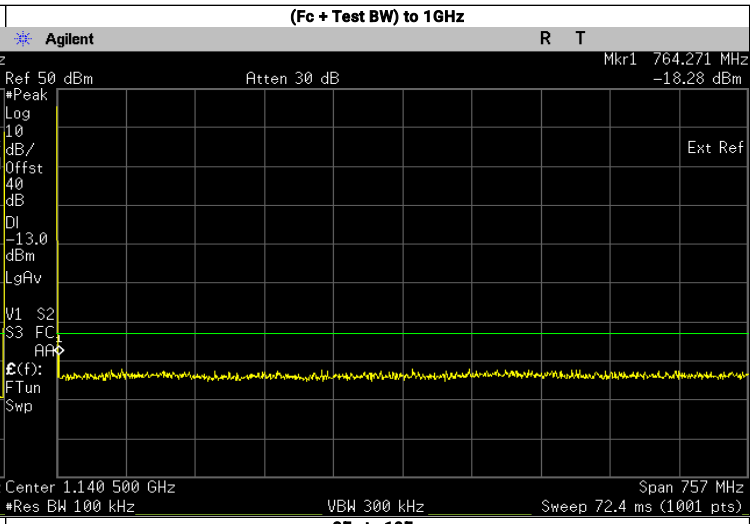
2Fc to 10Fc

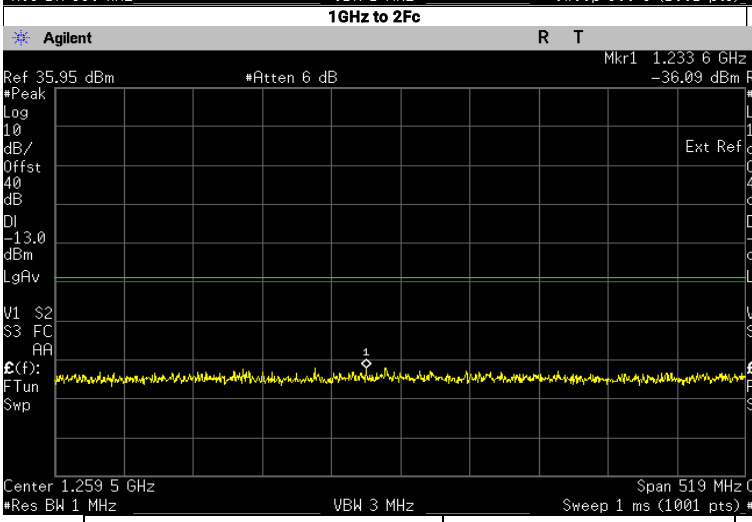


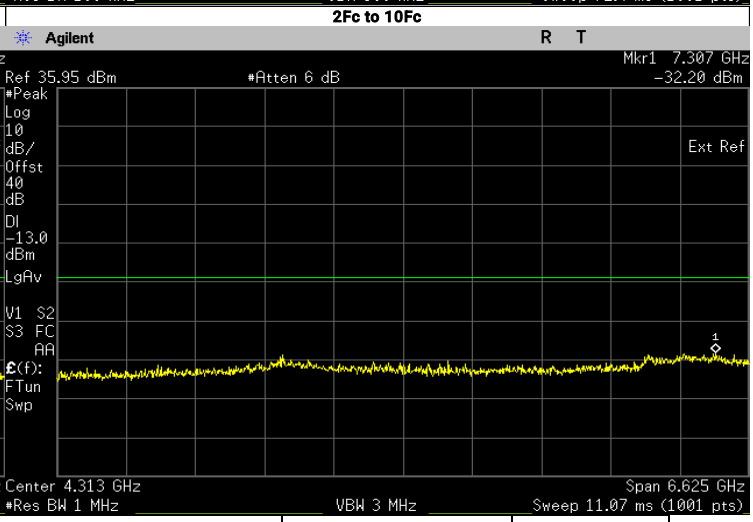
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	5.3000	-38.0100	-13	PASS
(Fc + Test BW) to <2Fc	1339.6260	-29.0300	-13	PASS
2Fc to 1GHz	999.9999	-50.6900	-13	PASS
1GHz to 10Fc	1715.5140	-43.1500	-13	PASS
	1524.0250	-50.5758	-13	PASS
	2286.0370	-50.7286	-13	PASS
	3048.0500	-47.7010	-13	PASS
	3810.0620	-48.9545	-13	PASS
	4572.0750	-48.7537	-13	PASS
	5334.0870	-49.7600	-13	PASS
	6096.1000	-49.2831	-13	PASS
	6858.1130	-47.6920	-13	PASS
	7620.1250	-47.0383	-13	PASS

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



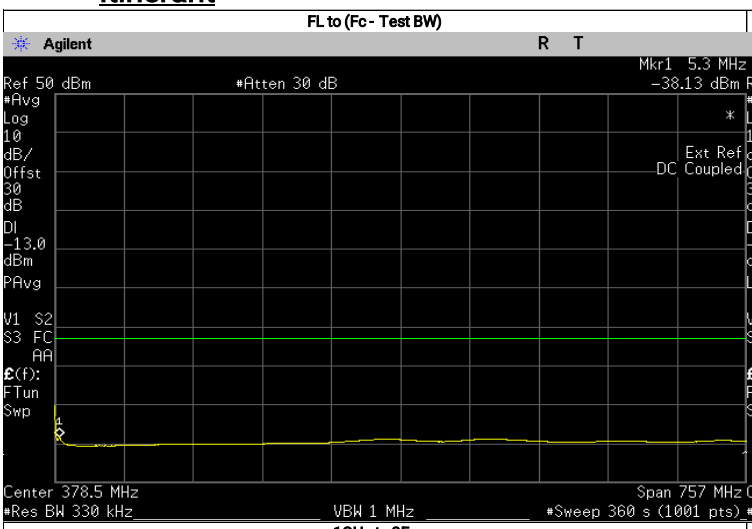


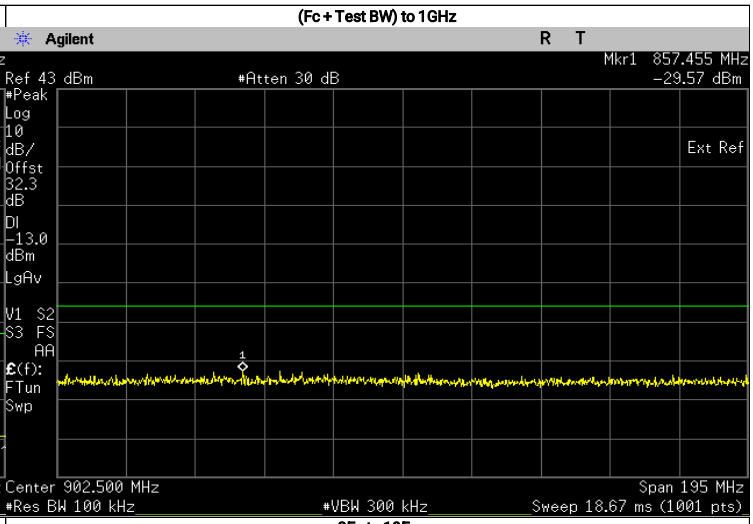


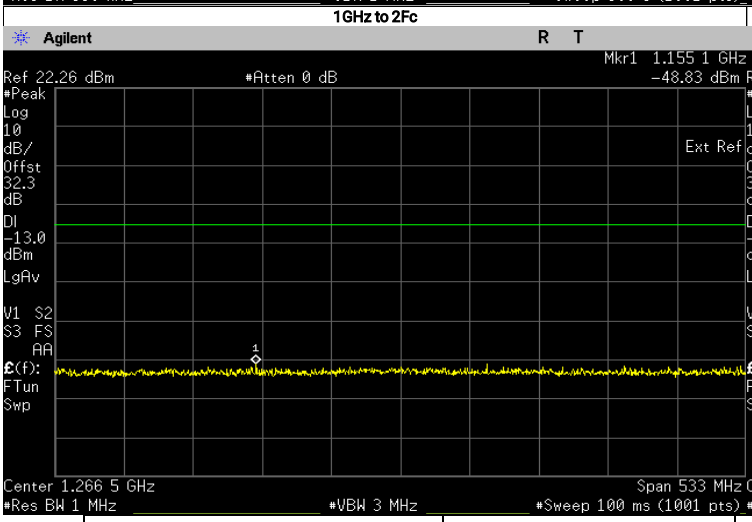


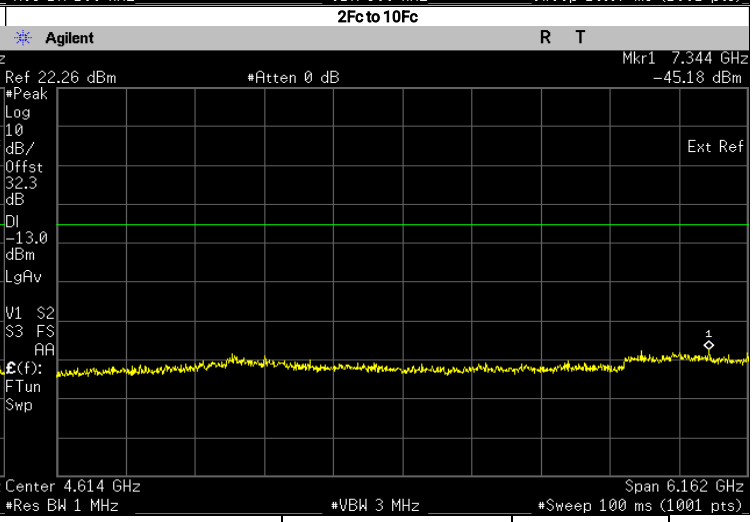
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	475.5000	-28.7700	-13	PASS
(Fc + Test BW) to <2Fc	764.2710	-18.2800	-13	PASS
2Fc to 1GHz	1233.6000	-36.0900	-13	PASS
1GHz to 10Fc	7306.9880	-32.2000	-13	PASS
	1524.0250	-36.6400	-13	PASS
	2286.0370	-37.7500	-13	PASS
	3048.0500	-34.4600	-13	PASS
	3810.0620	-36.8800	-13	PASS
	4572.0750	-37.1900	-13	PASS
	5334.0870	-37.2200	-13	PASS
	6096.1000	-35.8900	-13	PASS
	6858.1130	-34.4200	-13	PASS
	7620.1250	-34.9400	-13	PASS

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



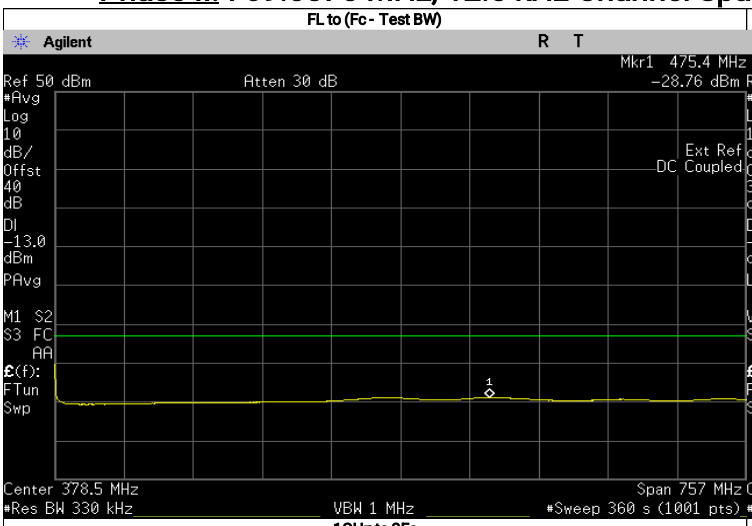


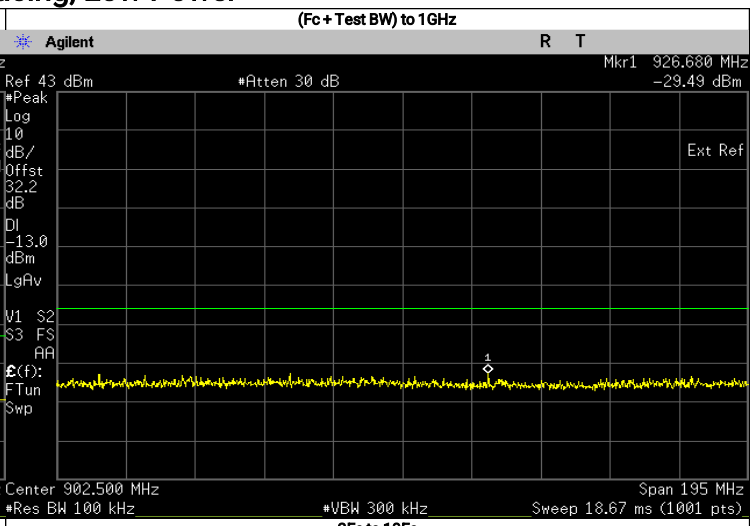


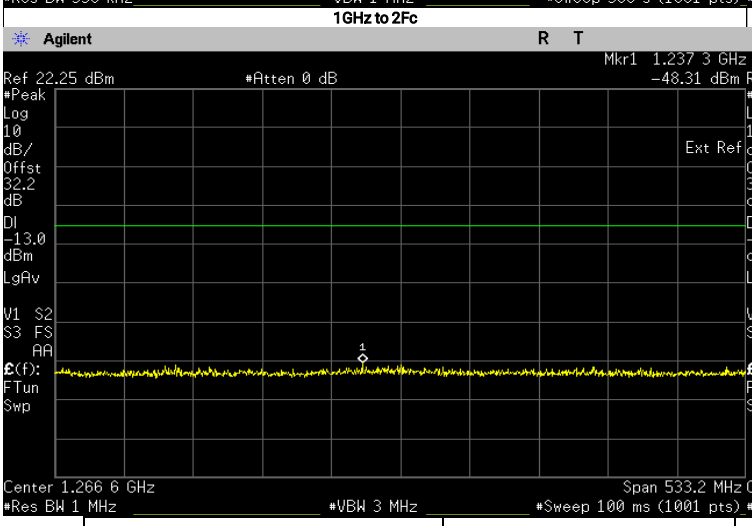


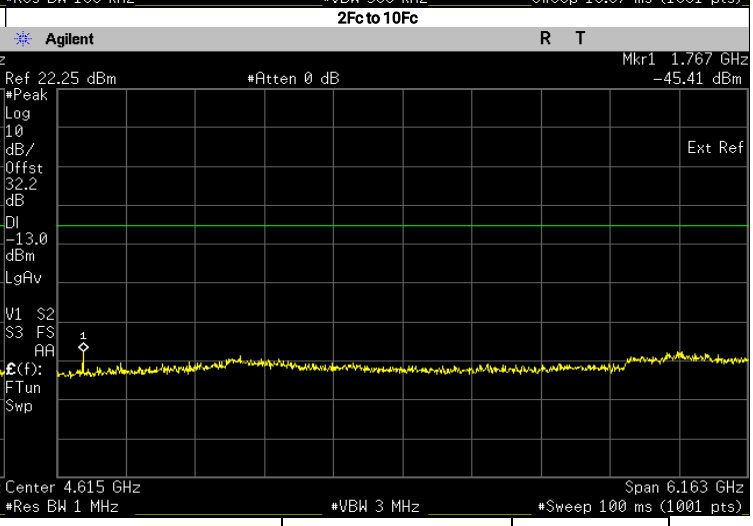
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	5.3000	-38.1300	-13	PASS
(Fc + Test BW) to <2Fc	857.4550	-29.5700	-13	PASS
2Fc to 1GHz	1155.1100	-48.8300	-13	PASS
1GHz to 10Fc	7343.8850	-45.1800	-13	PASS
	1538.0250	-51.0673	-13	PASS
	2307.0370	-50.7338	-13	PASS
	3076.0500	-47.4034	-13	PASS
	3845.0620	-49.6096	-13	PASS
	4614.0750	-50.7860	-13	PASS
	5383.0870	-50.2325	-13	PASS
	6152.1000	-49.4946	-13	PASS
	6921.1130	-47.8730	-13	PASS
	7690.1250	-46.3489	-13	PASS

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



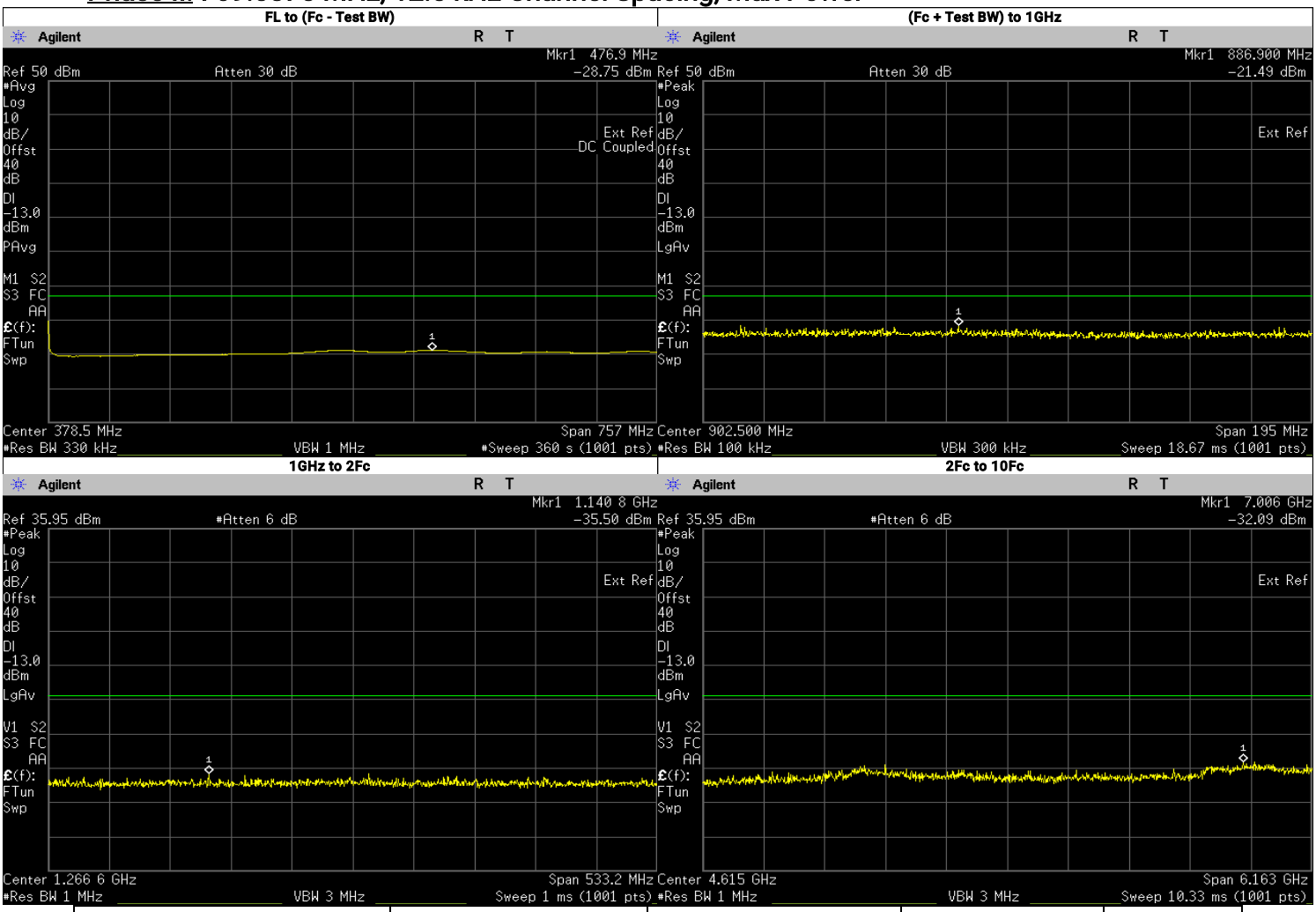






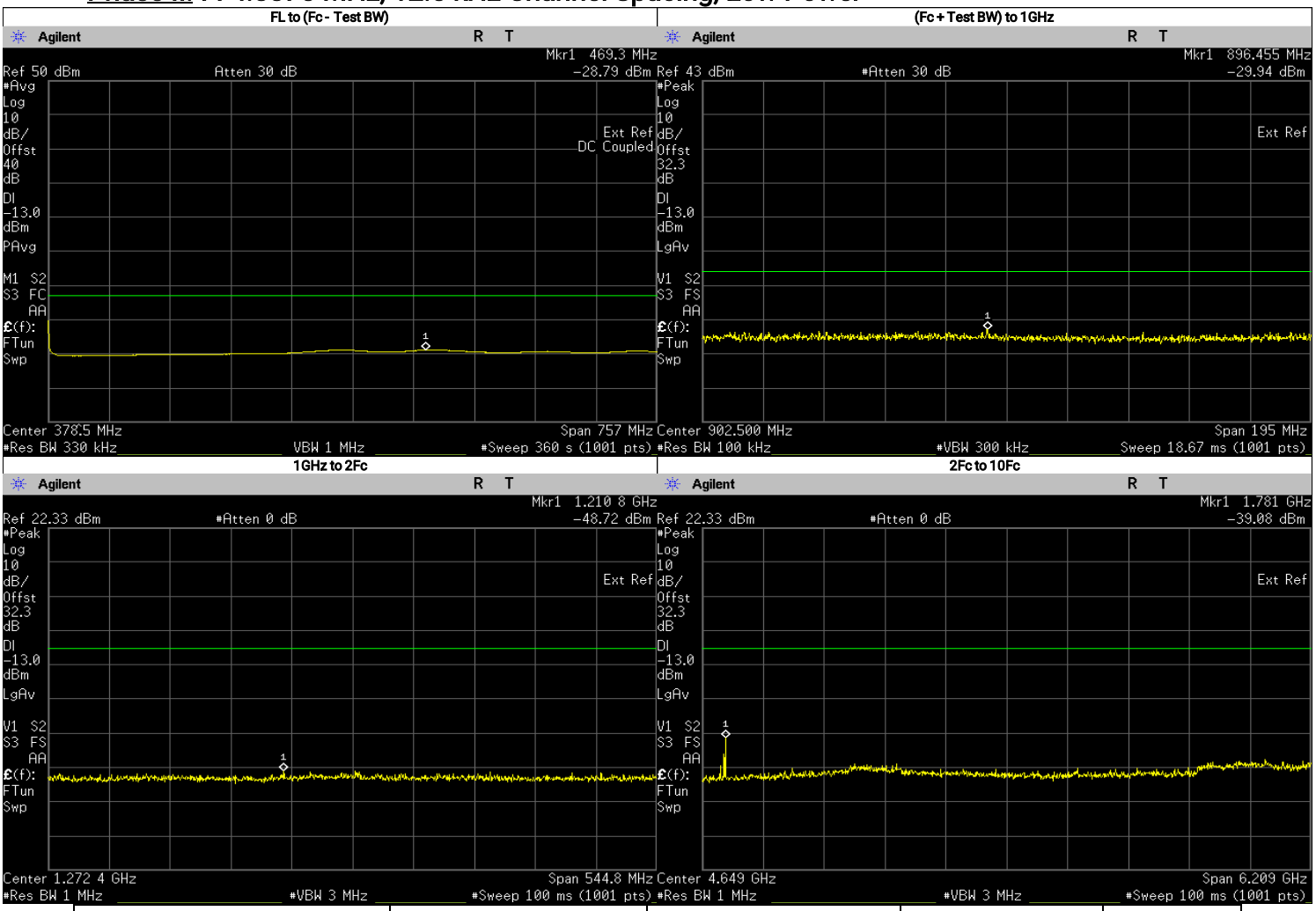
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	475.4000	-28.7600	-13	PASS
(Fc + Test BW) to <2Fc	926.6800	-29.4890	-13	PASS
2Fc to 1GHz	1237.2630	-48.3100	-13	PASS
1GHz to 10Fc	1767.3580	-45.4100	-13	PASS
	1538.1750	-50.6337	-13	PASS
	2307.2620	-51.0367	-13	PASS
	3076.3500	-47.8207	-13	PASS
	3845.4370	-49.0091	-13	PASS
	4614.5250	-49.8970	-13	PASS
	5383.6130	-50.0502	-13	PASS
	6152.7000	-49.2989	-13	PASS
	6921.7880	-47.1990	-13	PASS
	7690.8750	-47.5113	-13	PASS

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



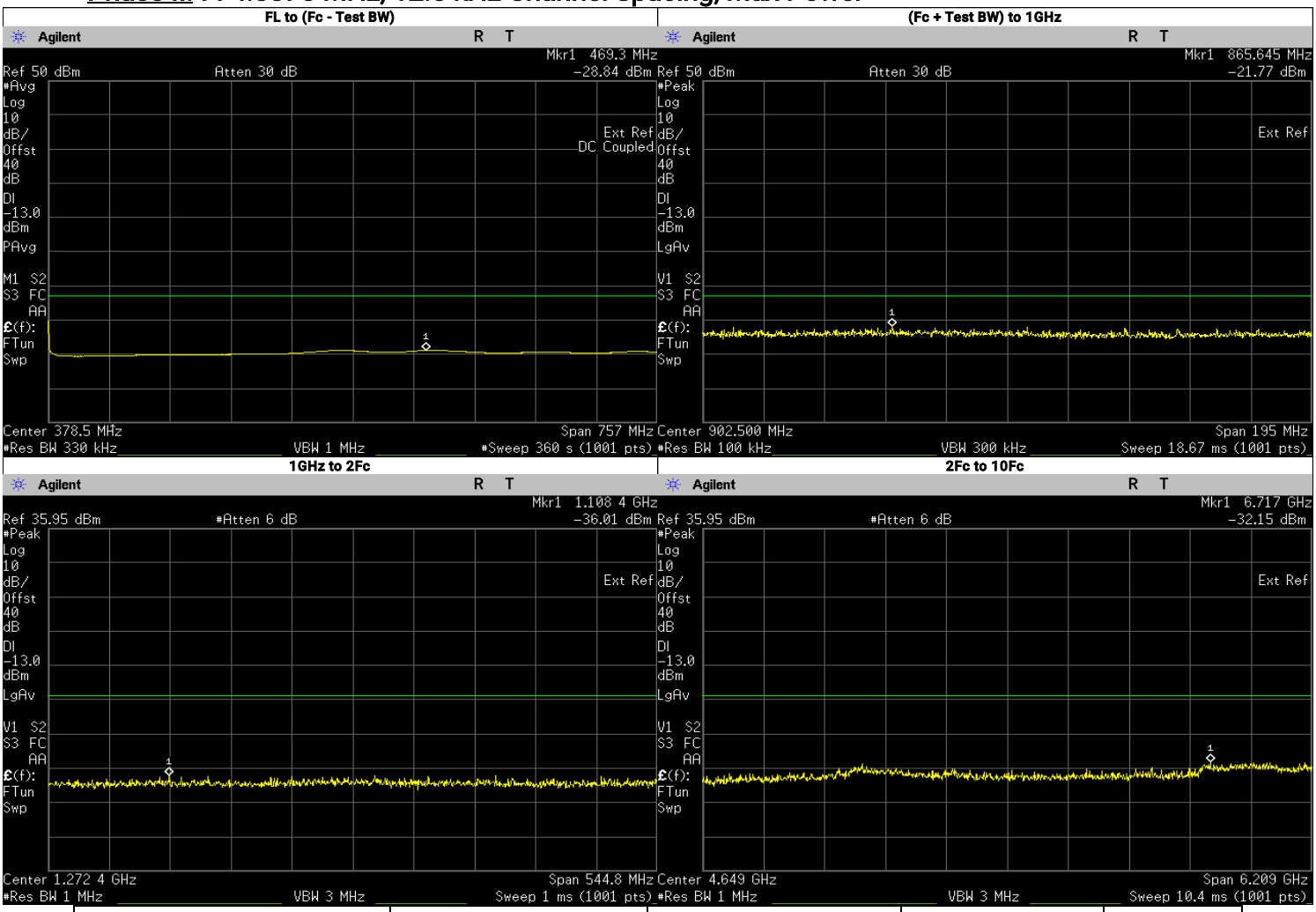
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	476.9000	-28.7500	-13	PASS
(Fc + Test BW) to <2Fc	886.9000	-21.4900	-13	PASS
2Fc to 1GHz	1140.8000	-35.5000	-13	PASS
1GHz to 10Fc	7006.0112	-32.0900	-13	PASS
	1538.1750	-38.2930	-13	PASS
	2307.2620	-37.8670	-13	PASS
	3076.3500	-34.6770	-13	PASS
	3845.4370	-36.4750	-13	PASS
	4614.5250	-36.4960	-13	PASS
	5383.6130	-35.9120	-13	PASS
	6152.7000	-35.7360	-13	PASS
	6921.7880	-33.7610	-13	PASS
	7690.8750	-35.0840	-13	PASS

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



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	469.3000	-28.7900	-13	PASS
(Fc + Test BW) to <2Fc	896.4550	-29.9400	-13	PASS
2Fc to 1GHz	1210.8280	-48.7200	-13	PASS
1GHz to 10Fc	1780.7210	-39.0800	-13	PASS
	1549.7750	-51.1611	-13	PASS
	2324.6620	-50.4889	-13	PASS
	3099.5500	-47.3444	-13	PASS
	3874.4370	-49.3489	-13	PASS
	4649.3250	-49.8310	-13	PASS
	5424.2120	-50.1125	-13	PASS
	6199.1000	-49.2804	-13	PASS
	6973.9880	-46.7206	-13	PASS
	7748.8750	-46.9766	-13	PASS

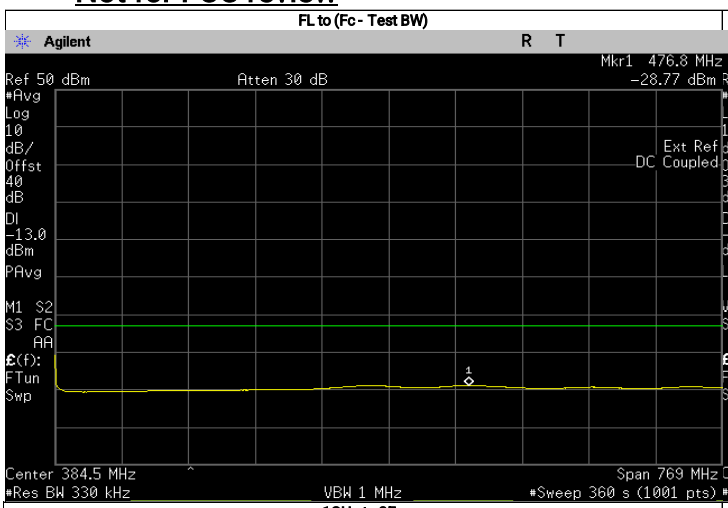
Phase II: 774.8875 MHz, 12.5 kHz Channel Spacing, Max Power

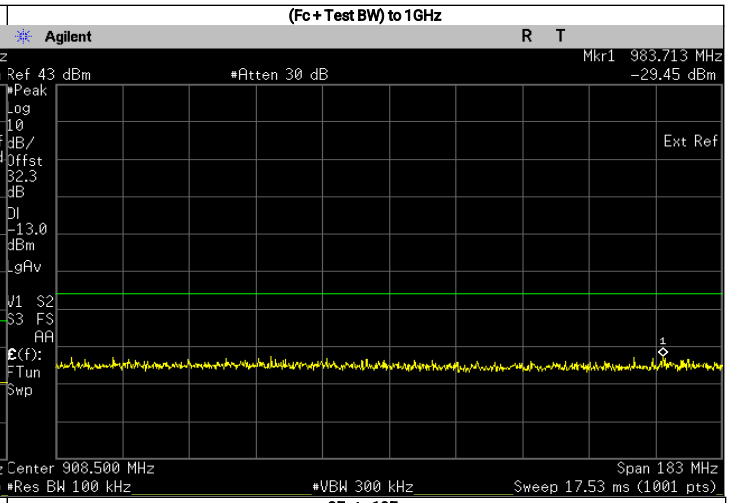


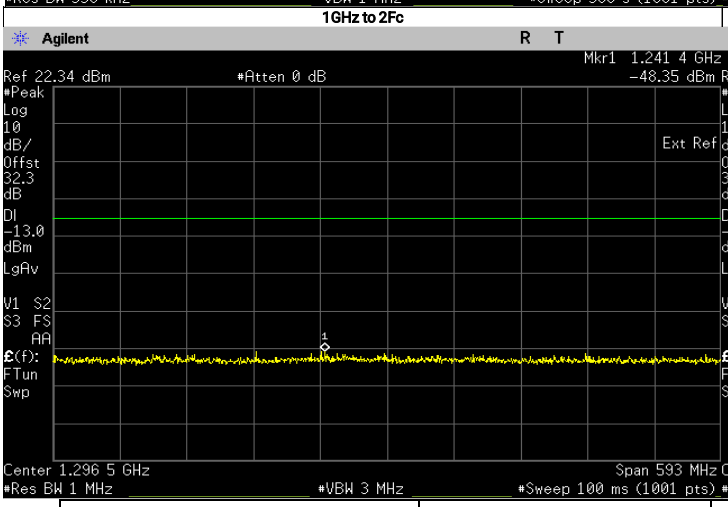
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	469.3000	-28.8400	-13	PASS
(Fc + Test BW) to <2Fc	865.6450	-21.7700	-13	PASS
2Fc to 1GHz	1108.4000	-36.0100	-13	PASS
1GHz to 10Fc	6716.9600	-32.1500	-13	PASS
	1549.7750	-37.8350	-13	PASS
	2324.6620	-36.2620	-13	PASS
	3099.5500	-33.8530	-13	PASS
	3874.4370	-36.4520	-13	PASS
	4649.3250	-35.7190	-13	PASS
	5424.2120	-36.8940	-13	PASS
	6199.1000	-36.4390	-13	PASS
	6973.9880	-33.0530	-13	PASS
	7748.8750	-33.4490	-13	PASS

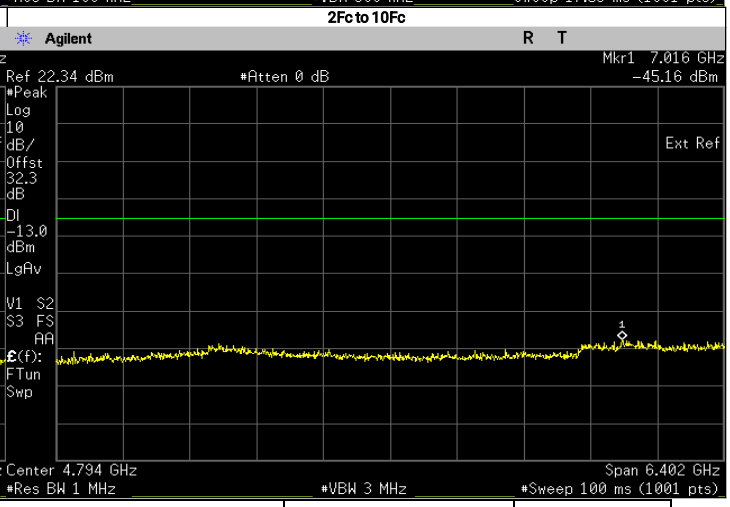
Phase II: 799.0125 MHz, 12.5 kHz Channel Spacing, Low Power

Not for FCC review



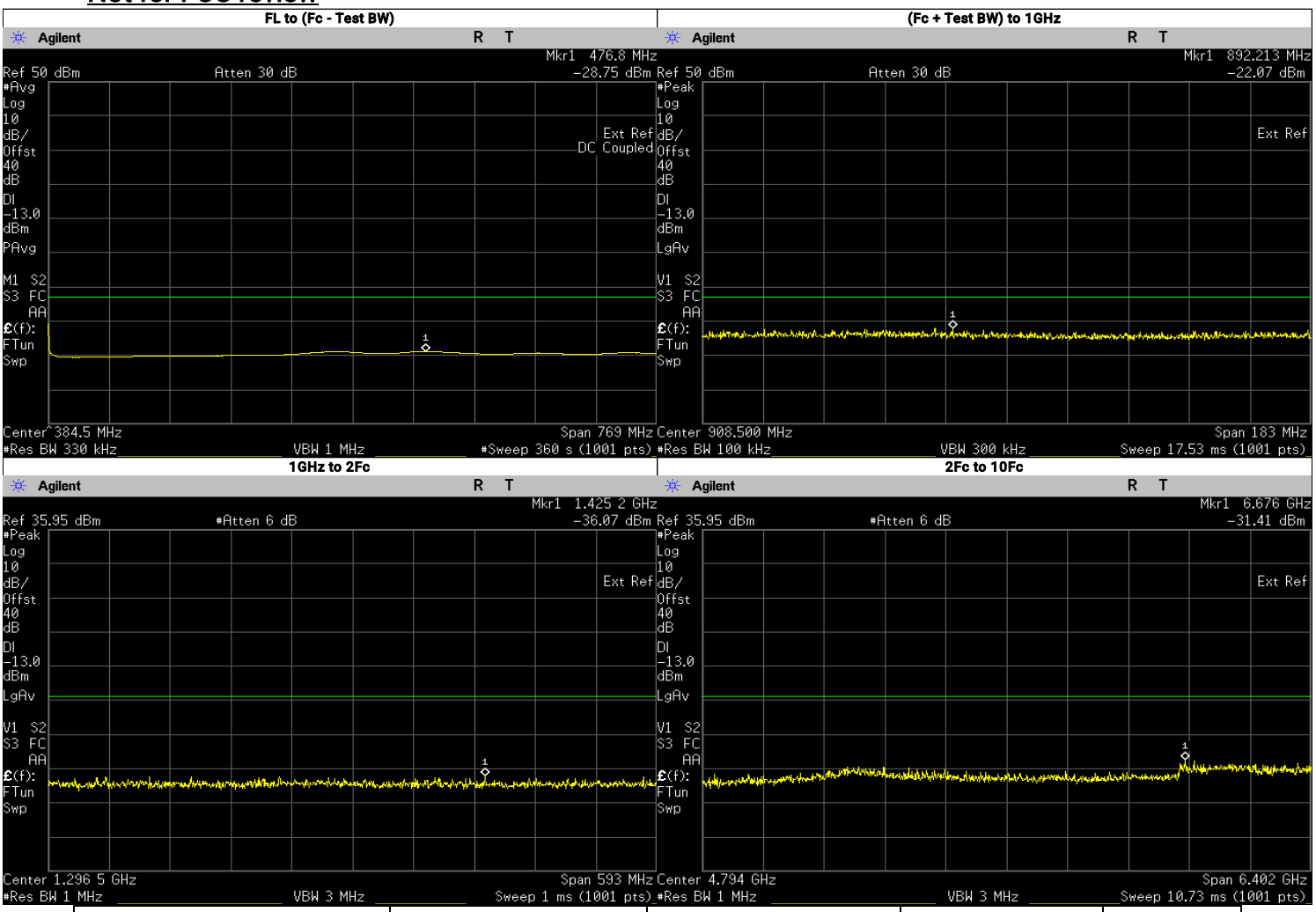






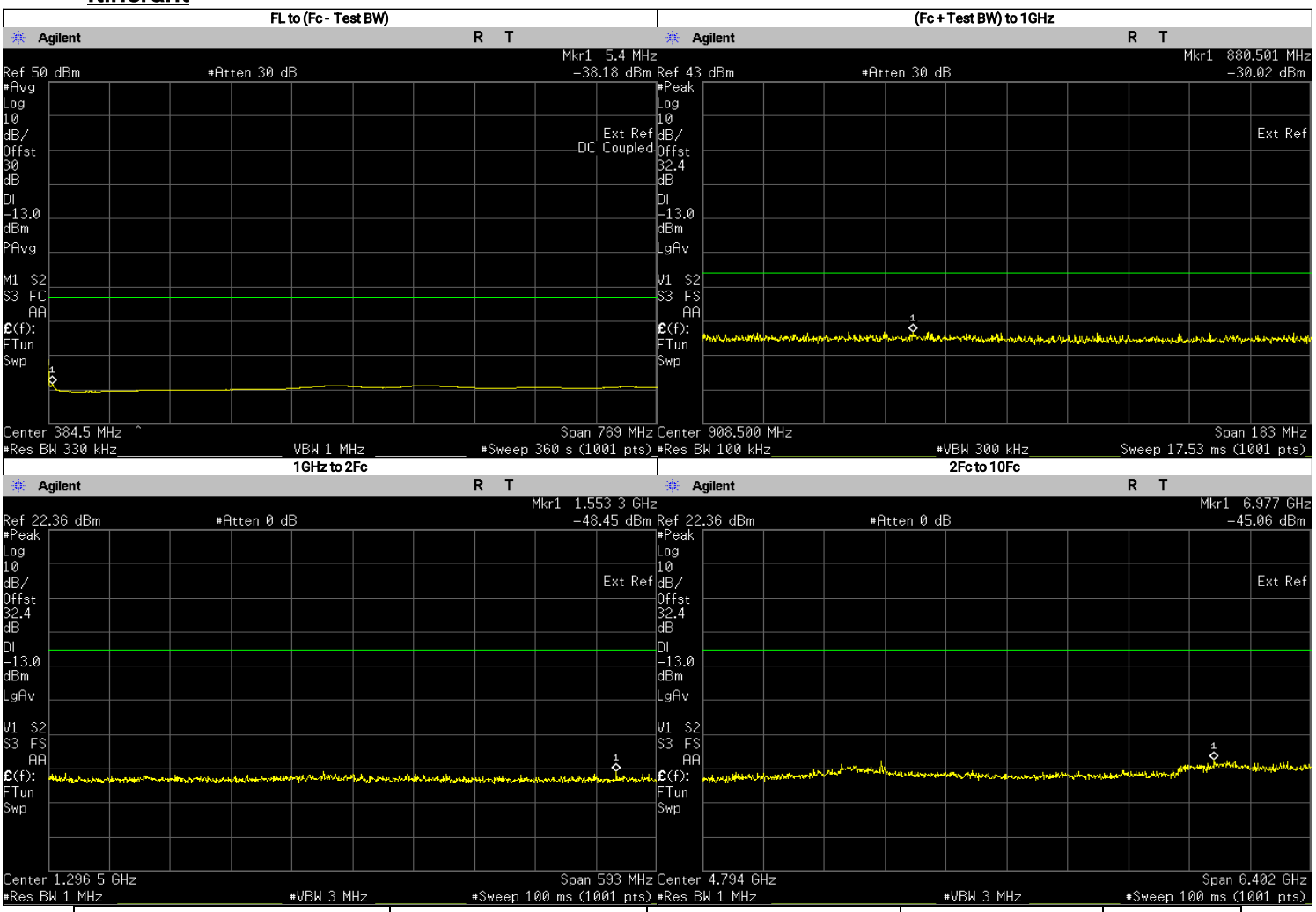
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	476.8000	-28.7700	-13	PASS
(Fc + Test BW) to <2Fc	983.7130	-29.4500	-13	PASS
2Fc to 1GHz	1241.3610	-48.3500	-13	PASS
1GHz to 10Fc	7015.6040	-45.1600	-13	PASS
	1598.0250	-51.3166	-13	PASS
	2397.0370	-50.7510	-13	PASS
	3196.0500	-47.7794	-13	PASS
	3995.0620	-49.4724	-13	PASS
	4794.0750	-50.4210	-13	PASS
	5593.0870	-49.9233	-13	PASS
	6392.1000	-49.5016	-13	PASS
	7191.1130	-47.1123	-13	PASS
	7990.1250	-46.9251	-13	PASS

Phase II: 799.0125 MHz, 12.5 kHz Channel Spacing, Max Power
Not for FCC review



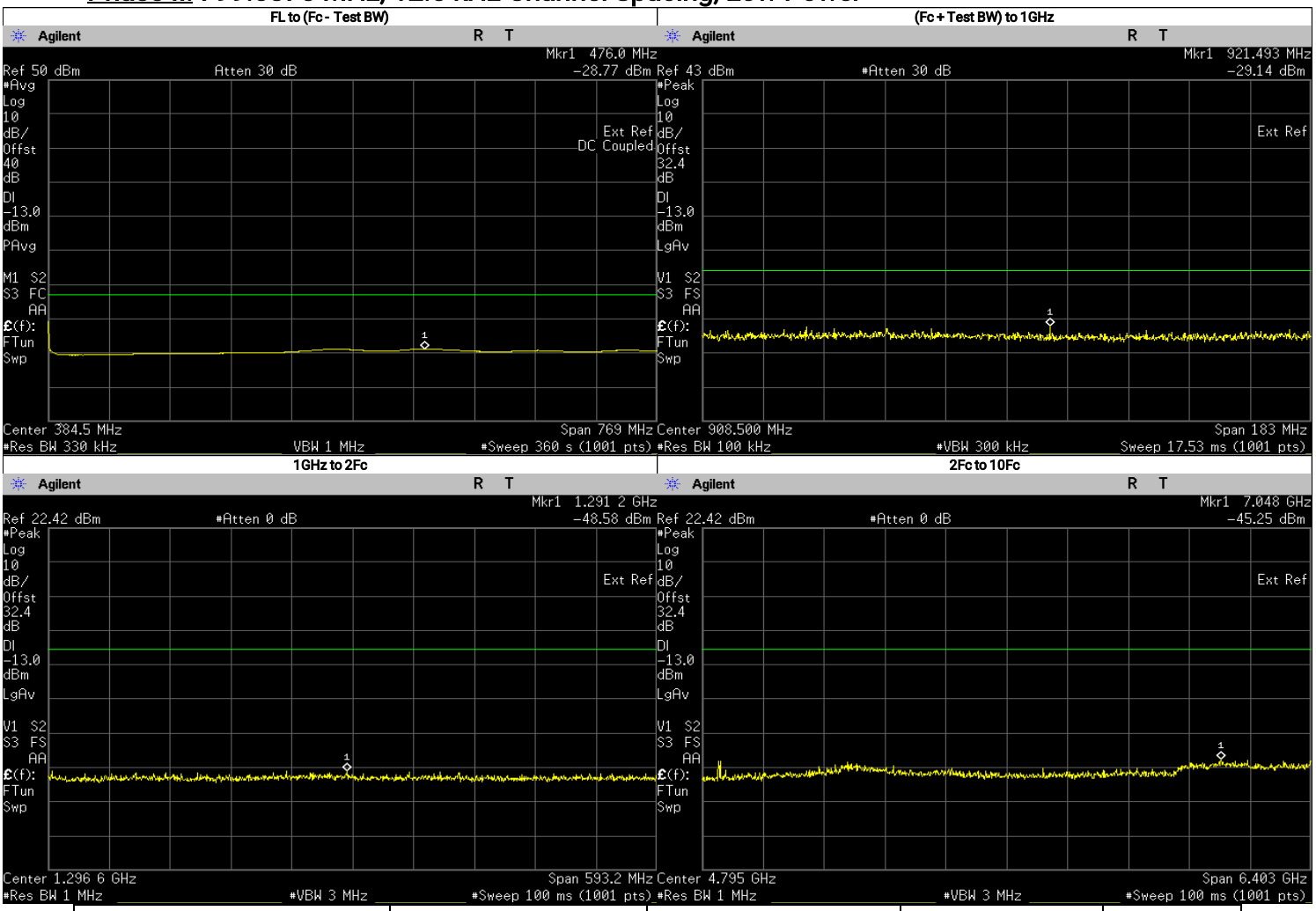
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	476.8000	-28.7500	-13	PASS
(Fc + Test BW) to <2Fc	892.2130	-22.0700	-13	PASS
2Fc to 1GHz	1425.2000	-36.0700	-13	PASS
1GHz to 10Fc	6675.9900	-31.4100	-13	PASS
	1598.0250	-37.4510	-13	PASS
	2397.0370	-37.8830	-13	PASS
	3196.0500	-34.4740	-13	PASS
	3995.0620	-36.5270	-13	PASS
	4794.0750	-36.2150	-13	PASS
	5593.0870	-36.7870	-13	PASS
	6392.1000	-36.7060	-13	PASS
	7191.1130	-33.0300	-13	PASS
	7990.1250	-34.9420	-13	PASS

Phase II: 799.0125 MHz, 12.5 kHz Channel Spacing, Max Power Itinerant



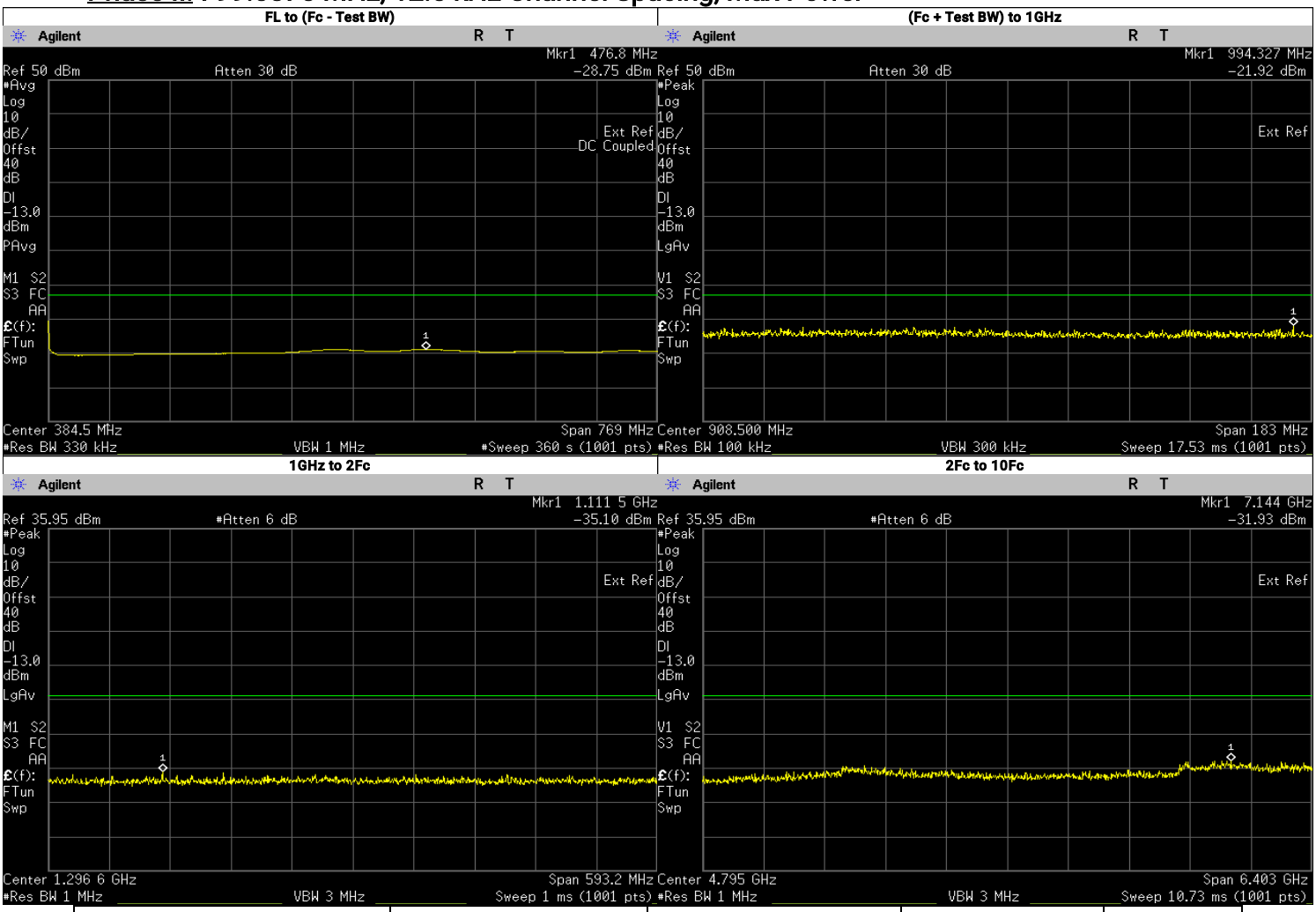
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	5.4000	-38.1800	-13	PASS
(Fc + Test BW) to <2Fc	880.5010	-30.0200	-13	PASS
2Fc to 1GHz	1553.2920	-48.4500	-13	PASS
1GHz to 10Fc	6977.1910	-45.0600	-13	PASS
	1598.0250	-51.1269	-13	PASS
	2397.0370	-49.5279	-13	PASS
	3196.0500	-47.2559	-13	PASS
	3995.0620	-49.8545	-13	PASS
	4794.0750	-50.4100	-13	PASS
	5593.0870	-49.7804	-13	PASS
	6392.1000	-49.7966	-13	PASS
	7191.1130	-45.7151	-13	PASS
	7990.1250	-47.1344	-13	PASS

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



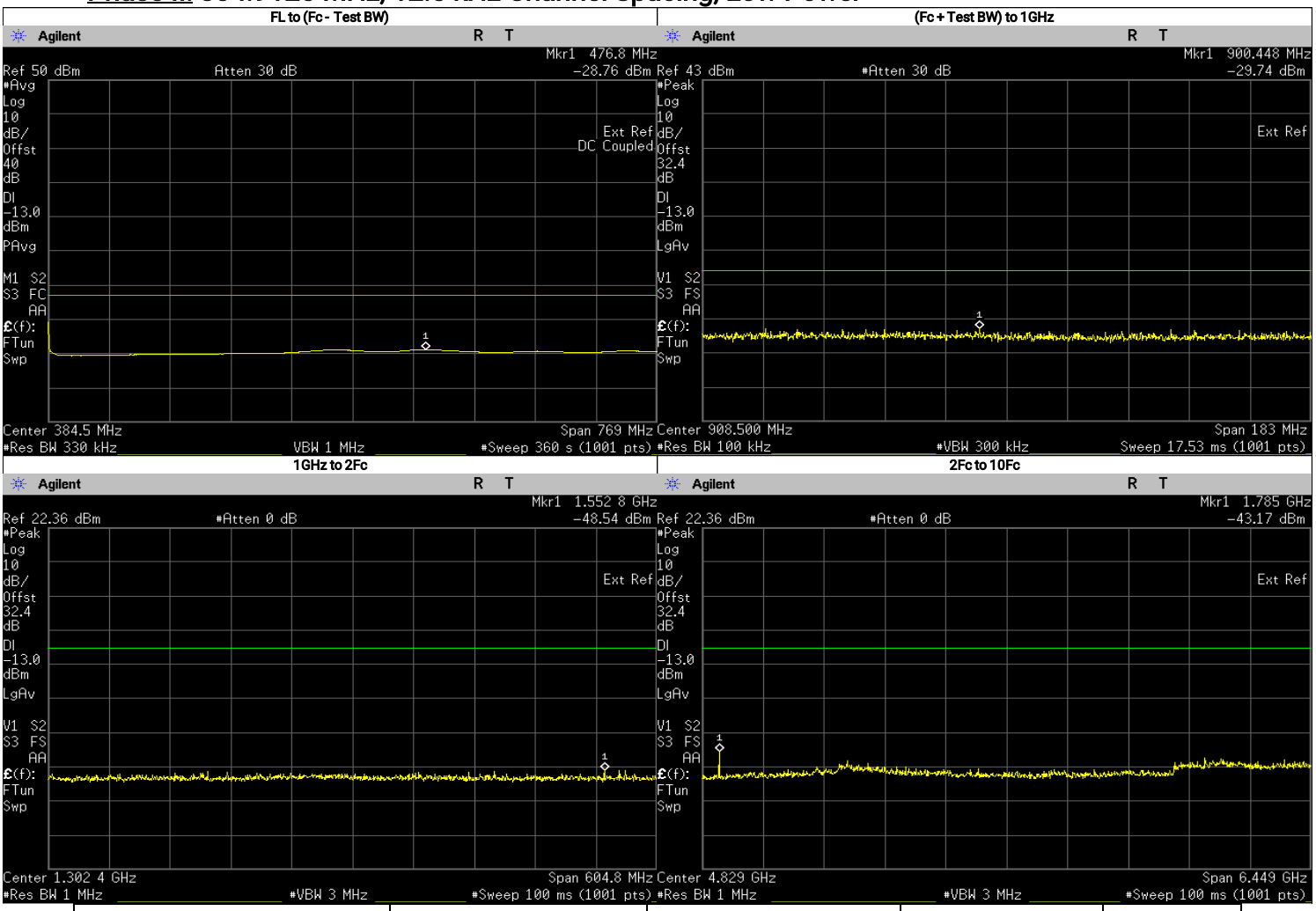
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	476.0120	-28.7700	-13	PASS
(Fc + Test BW) to <2Fc	921.4930	-29.1400	-13	PASS
2Fc to 1GHz	1291.2490	-48.5800	-13	PASS
1GHz to 10Fc	7048.2750	-45.2500	-13	PASS
	1598.1750	-51.0898	-13	PASS
	2397.2620	-49.5899	-13	PASS
	3196.3500	-47.4928	-13	PASS
	3995.4370	-48.9372	-13	PASS
	4794.5250	-49.9080	-13	PASS
	5593.6130	-48.8931	-13	PASS
	6392.7000	-49.1816	-13	PASS
	7191.7880	-46.5728	-13	PASS
	7990.8750	-45.7587	-13	PASS

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



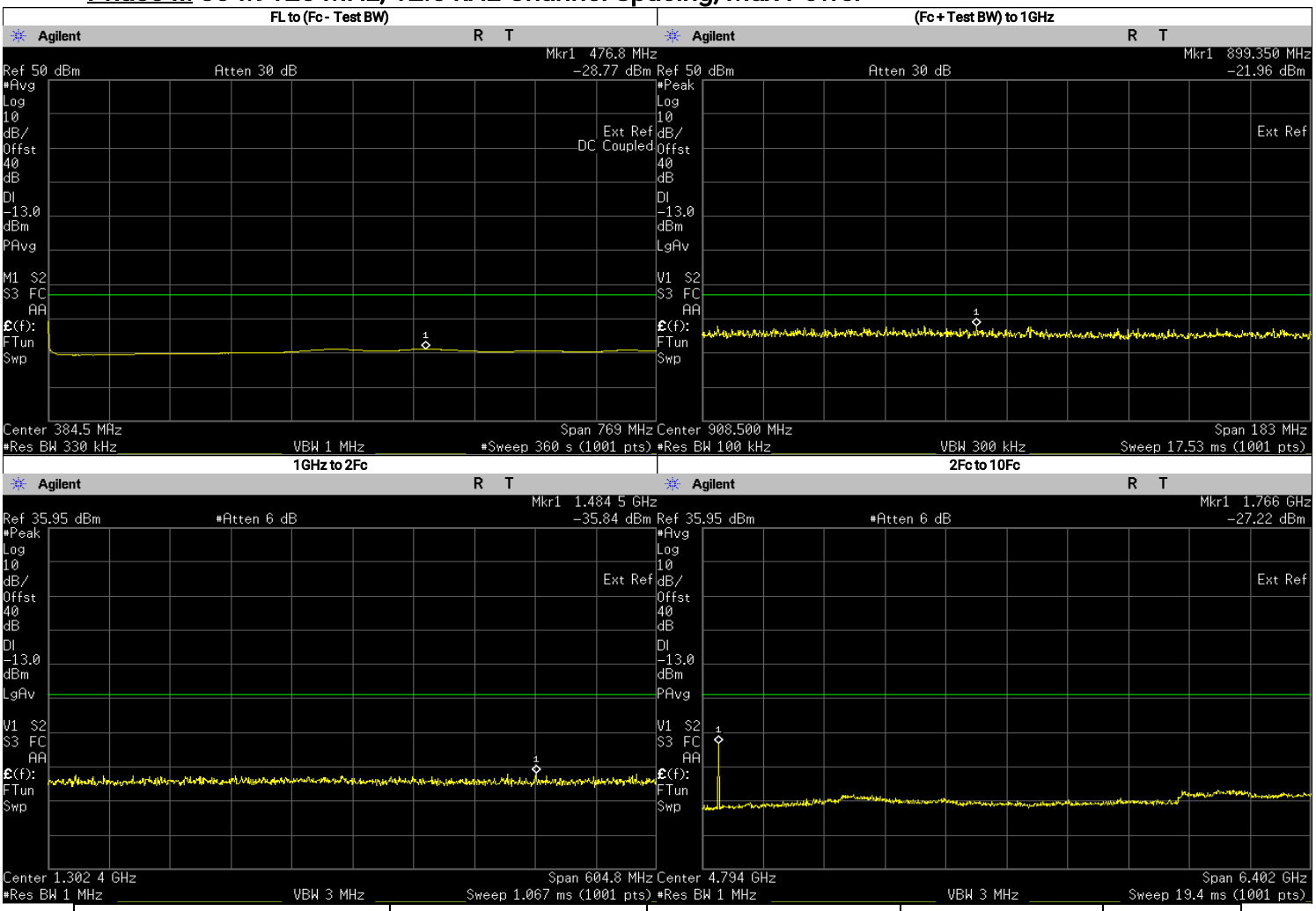
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	476.8000	-28.7500	-13	PASS
(Fc + Test BW) to <2Fc	921.3270	-21.9200	-13	PASS
2Fc to 1GHz	111.5000	-35.1000	-13	PASS
1GHz to 10Fc	7144.0000	-31.9300	-13	PASS
	1598.1750	-37.8910	-13	PASS
	2397.2620	-37.3200	-13	PASS
	3196.3500	-35.0130	-13	PASS
	3995.4370	-36.8360	-13	PASS
	4794.5250	-36.7370	-13	PASS
	5593.6130	-35.1430	-13	PASS
	6392.7000	-34.7700	-13	PASS
	7191.7880	-33.3260	-13	PASS
	7990.8750	-33.5400	-13	PASS

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



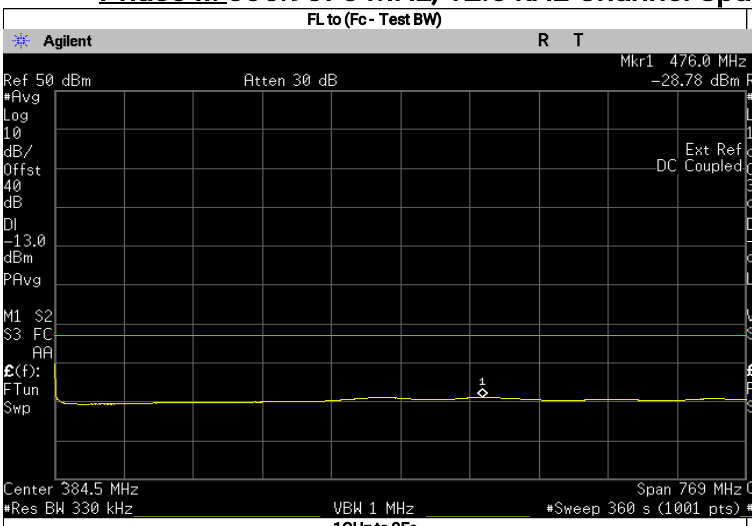
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	476.8000	-28.7600	-13	PASS
(Fc + Test BW) to <2Fc	900.4480	-29.7400	-13	PASS
2Fc to 1GHz	1552.8100	-48.5400	-13	PASS
1GHz to 10Fc	1785.4050	-43.1700	-13	PASS
	1609.8250	-51.1296	-13	PASS
	2414.7380	-50.1099	-13	PASS
	3219.6500	-48.4051	-13	PASS
	4024.5620	-49.4240	-13	PASS
	4829.4750	-50.1460	-13	PASS
	5634.3870	-50.7753	-13	PASS
	6439.3000	-49.3911	-13	PASS
	7244.2120	-46.7901	-13	PASS
	8049.1250	-47.6573	-13	PASS

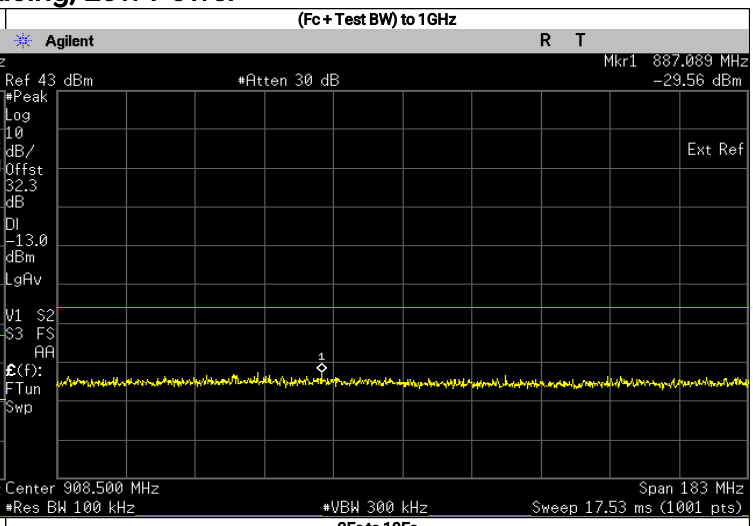
Phase II: 804.9125 MHz, 12.5 kHz Channel Spacing, Max Power

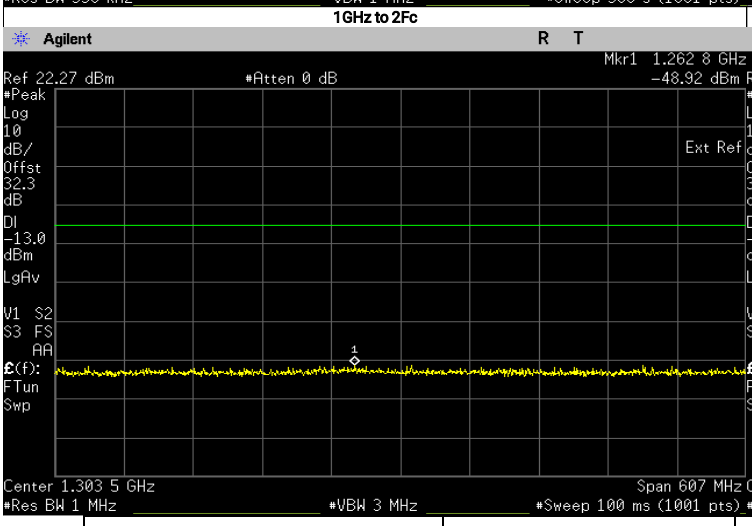


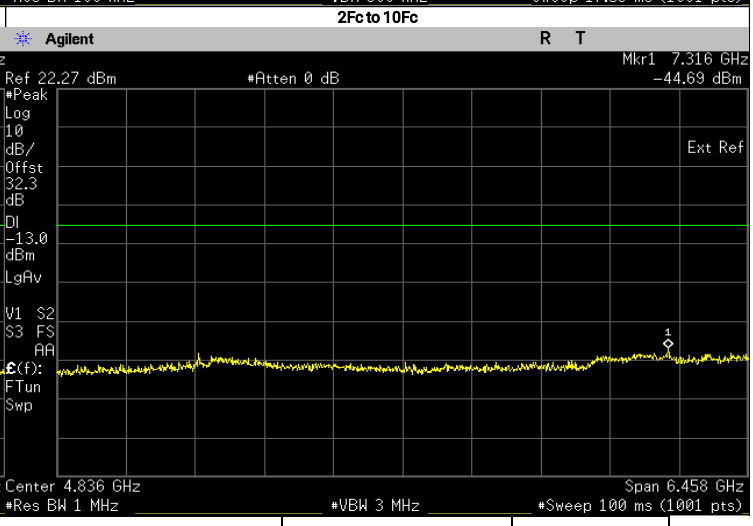
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	476.8000	-28.7700	-13	PASS
(Fc + Test BW) to <2Fc	899.3500	-21.9600	-13	PASS
2Fc to 1GHz	1484.5000	-35.8400	-13	PASS
1GHz to 10Fc	1766.0000	-27.2200	-13	PASS
	1609.8250	-38.6270	-13	PASS
	2414.7380	-37.7100	-13	PASS
	3219.6500	-36.2650	-13	PASS
	4024.5620	-37.4090	-13	PASS
	4829.4750	-36.8790	-13	PASS
	5634.3870	-35.4620	-13	PASS
	6439.3000	-36.6090	-13	PASS
	7244.2120	-33.2790	-13	PASS
	8049.1250	-33.7810	-13	PASS

Phase II: 805.9875 MHz, 12.5 kHz Channel Spacing, Low Power



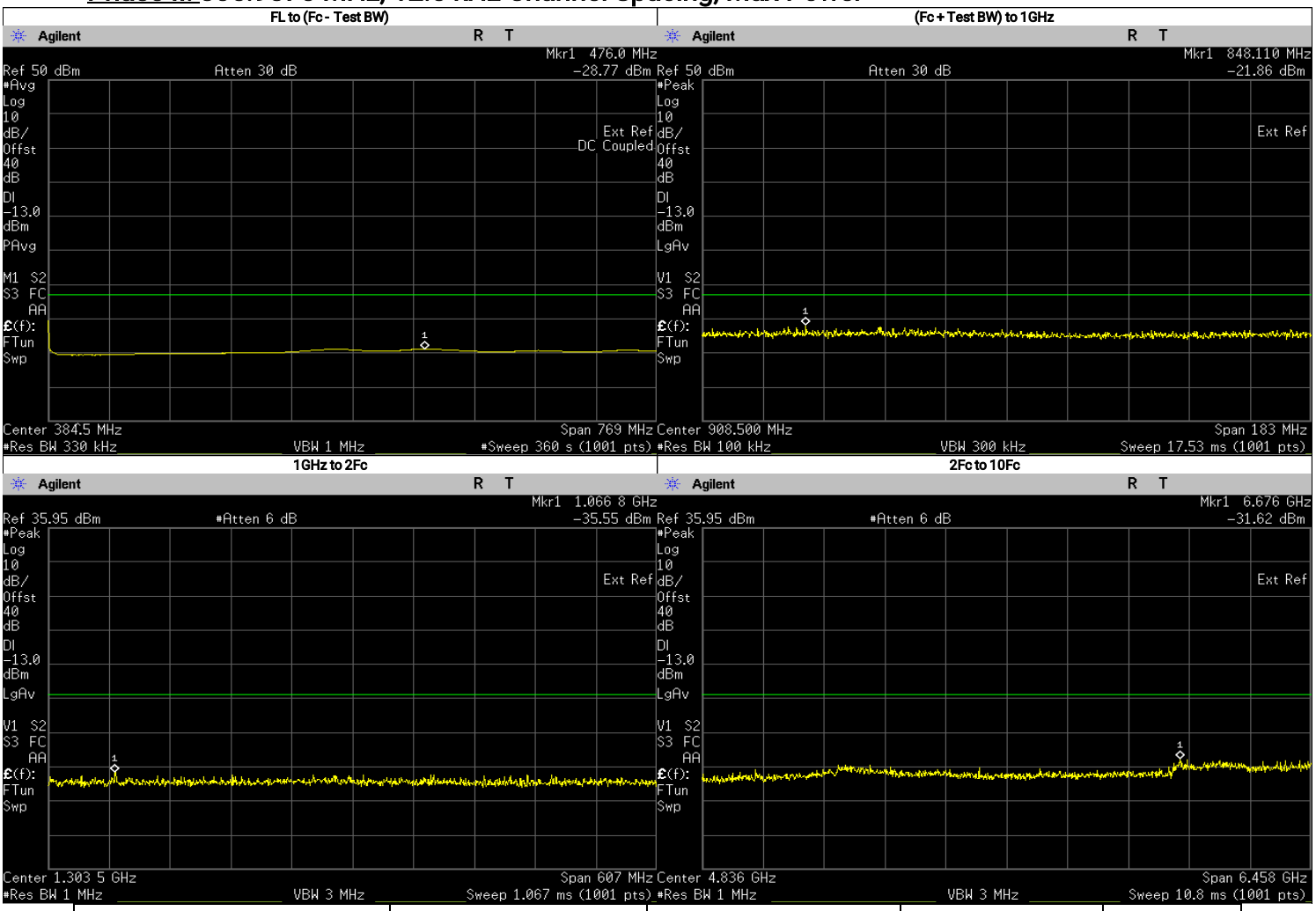






Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	476.0000	-28.7800	-13	PASS
(Fc + Test BW) to <2Fc	887.0890	-29.5600	-13	PASS
2Fc to 1GHz	1262.8200	-48.9200	-13	PASS
1GHz to 10Fc	7315.7590	-44.6900	-13	PASS
	1611.9750	-50.6848	-13	PASS
	2417.9630	-50.5508	-13	PASS
	3223.9500	-47.2303	-13	PASS
	4029.9370	-49.4695	-13	PASS
	4835.9250	-50.8360	-13	PASS
	5641.9130	-49.7447	-13	PASS
	6447.9000	-48.9259	-13	PASS
	7253.8870	-47.2669	-13	PASS
	8059.8750	-47.6770	-13	PASS

Phase II: 805.9875 MHz, 12.5 kHz Channel Spacing, Max Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (MHz)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	476.0000	-28.7700	-13	PASS
(Fc + Test BW) to <2Fc	848.1100	-21.8600	-13	PASS
2Fc to 1GHz	1066.8000	-35.5500	-13	PASS
1GHz to 10Fc	6676.0000	-31.6200	-13	PASS
	1611.9750	-37.7320	-13	PASS
	2417.9630	-37.4870	-13	PASS
	3223.9500	-34.5390	-13	PASS
	4029.9370	-35.4250	-13	PASS
	4835.9250	-36.2110	-13	PASS
	5641.9130	-36.5250	-13	PASS
	6447.9000	-36.2160	-13	PASS
	7253.8870	-34.0620	-13	PASS
	8059.8750	-33.7880	-13	PASS

6.9.4. Test Limit

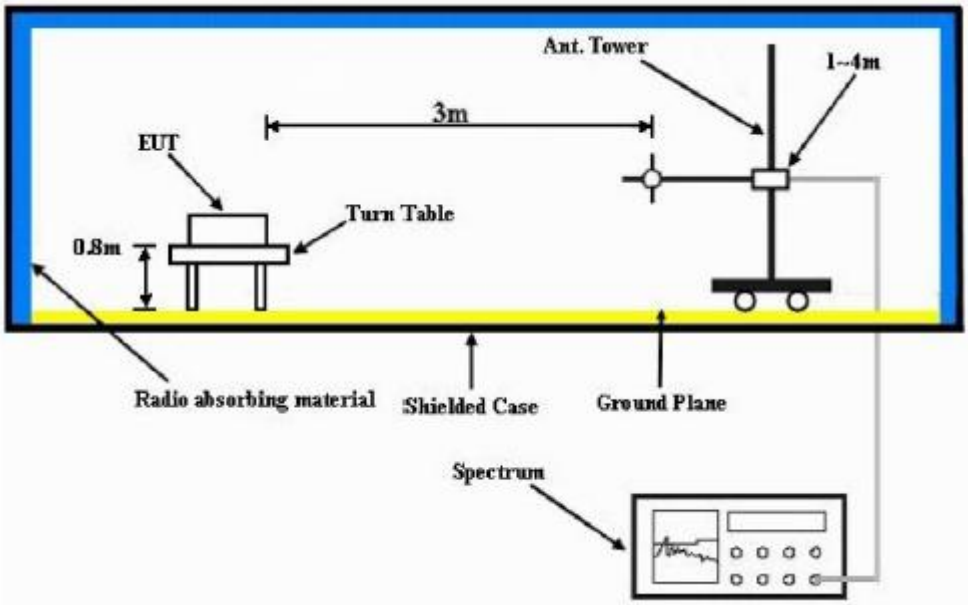
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

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

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

6.10. Radiated Spurious Emission

6.10.1. Test Setup



1) The Resolution Bandwidth for scanning Radiated Emission below 1 GHz is 100 kHz with Video Bandwidth = 300 kHz and Resolution Bandwidth for above 1 GHz is 1 MHz with Video Bandwidth = 3 MHz. Detector mode is positive peak.
2) In the semi- anechoic chamber, setup as illustrated above the DUT placed on the 0.8m height (for Fc < 1GHz) or 1.5m height (for Fc > 1GHz) 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)

Test: SAC Transmitter Radiated Emission

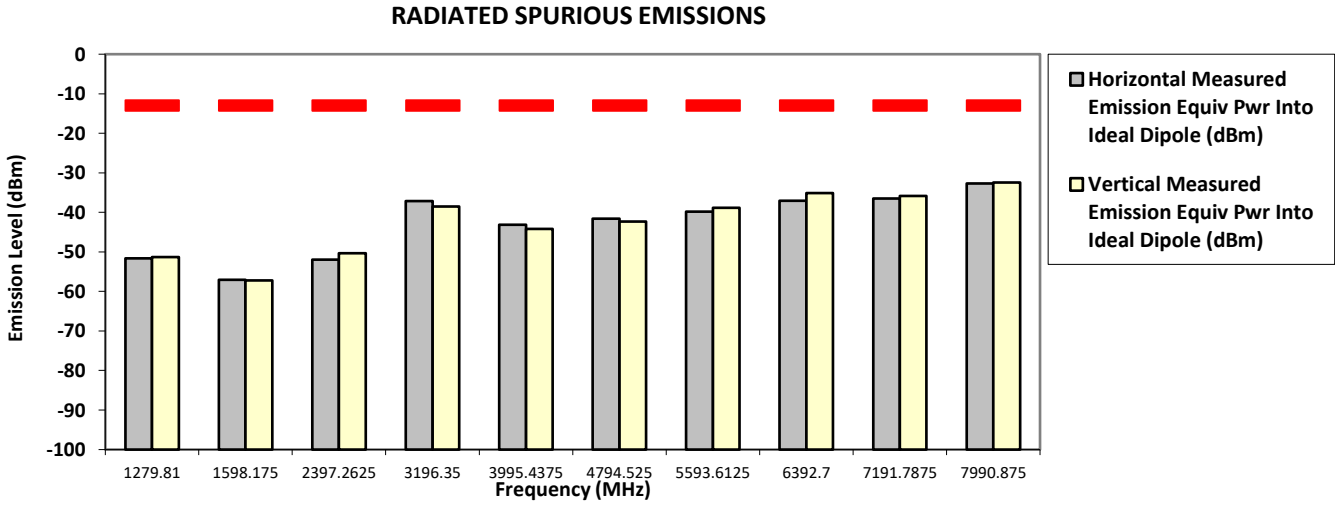
Model Number: M37TXS9PW1AN S/N: 681IAL4227 EMC SR ID#: 34807-EMC-00011

Battery: NA Accessory: AN000163A01, HMN4079G-R1, HKN6170B-C1, HKN6188B-3, HKN6163C-CF1, HKN4192C, PMHN4194C-CF16, PMUN1057B-CF4, TIB AS000016A02

Test Mode: TX Analog

Test Frequency: 799.087500 MHz Channel Spacing: 12.5kHz Power: 36.000 Watt(s)/Max Power

Frequency (MHz)	Limit	Horizontal Measured Emission Equiv Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into ideal Dipole (dBm)
1279.8100	-13.0000	-51.6200 *	-51.3400 *
1598.1750	-13.0000	-57.0699 **	-57.2223 **
2397.2625	-13.0000	-51.9910 **	-50.3244 **
3196.3500	-13.0000	-37.1100 *	-38.5000 *
3995.4375	-13.0000	-43.1711 **	-44.2198 **
4794.5250	-13.0000	-41.5954 **	-42.3505 **
5593.6125	-13.0000	-39.8110 **	-38.8335 **
6392.7000	-13.0000	-37.0750 **	-35.1212 **
7191.7875	-13.0000	-36.5364 **	-35.8251 **
7990.8750	-13.0000	-32.6834 **	-32.4499 **



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

Motorola Penang EMC Lab - Test Performed by: Aiman Tue, 7 Jan, 2025

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

*Pursuant to CFR 47 Part 2.1057 (c), emissions attenuated more than 20 dB below the permissible limit are not reported

Temp(Deg): 22.6 Hum(%RH): 63.2

System MU: 4.03 dB

Remarks: Passed Results | Marginal Results | Failed Results

6.10.3. Test Result (Digital)

Not Applicable

6.10.4. Test Limit

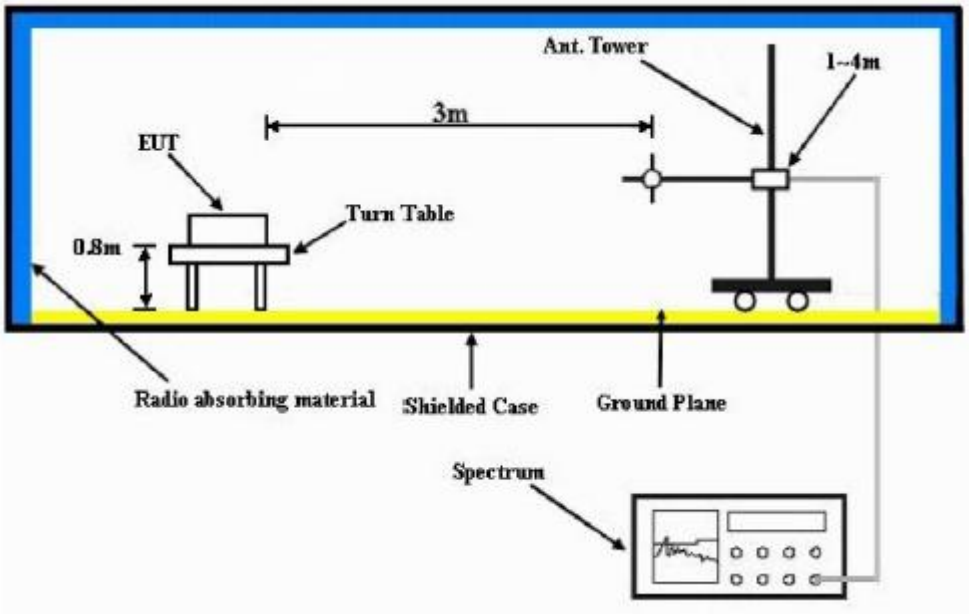
Table below summarized the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least

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

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

6.11. 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 Fc < 1GHz) or 1.5m (for Fc > 1GHz) of Turn Table, rotated the table 45 degree each interval to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power for each degree interval. The “Read Value” is the spectrum reading of maximum power value.
3) The substitution antenna is substituted for DUT at the same position and signals generator (S.G) export the CW signal to the substitution antenna via a TX cable. The receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum radiation power. Record the power level of maximum radiation power from spectrum. So, the Measured substitution value = Ref level of S.G + TX cables loss – Substituted Antenna Gain.

6.11.2. Test Result

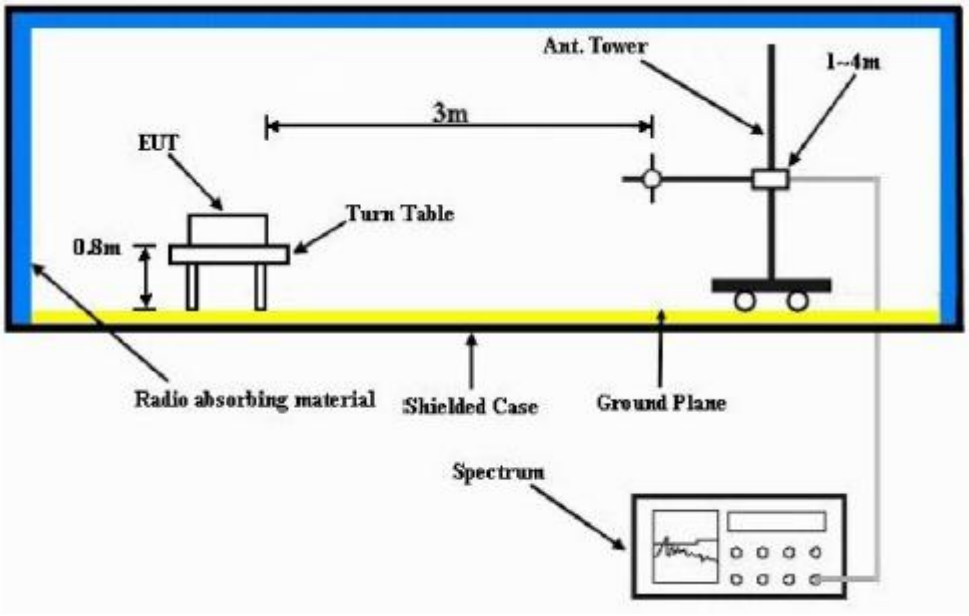
Not Applicable

6.11.3. Test Limit

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

6.12. GNSS (EIRP for 1559 - 1610MHz)

6.12.1. Test Setup



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