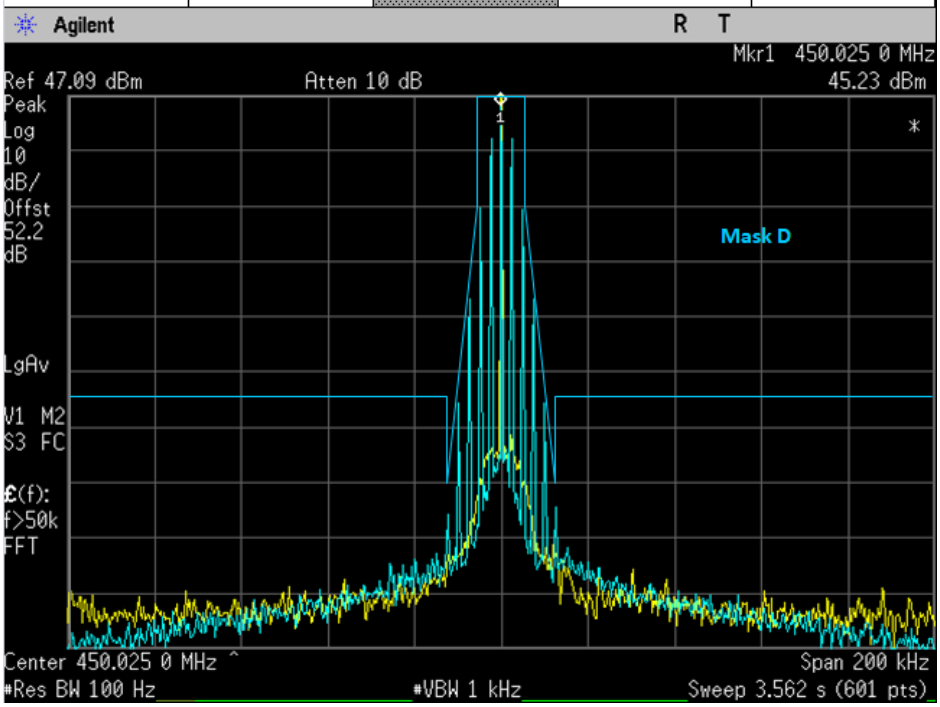
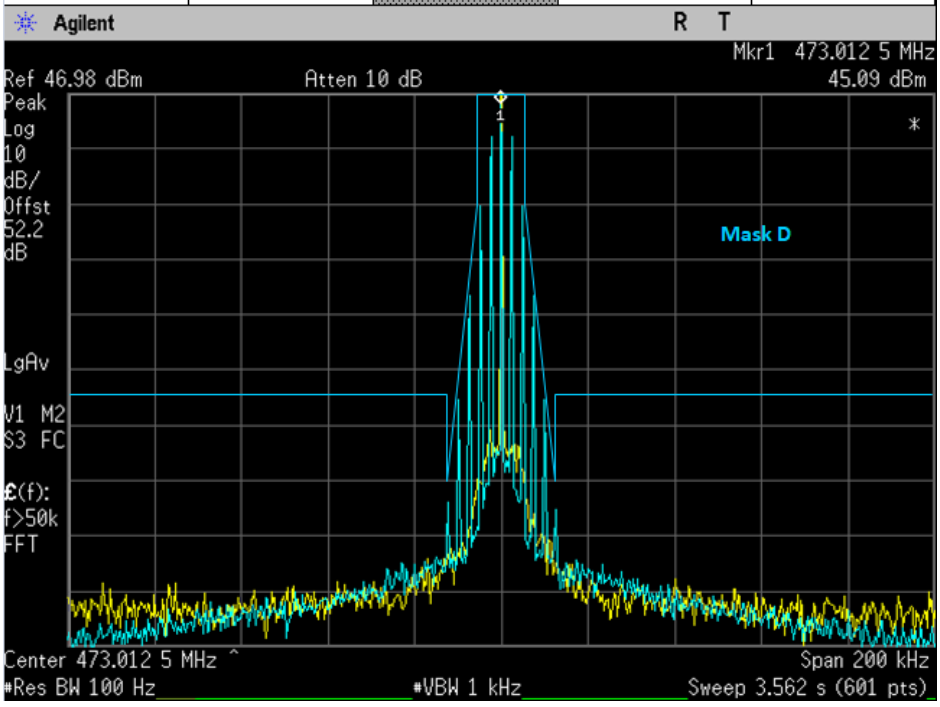
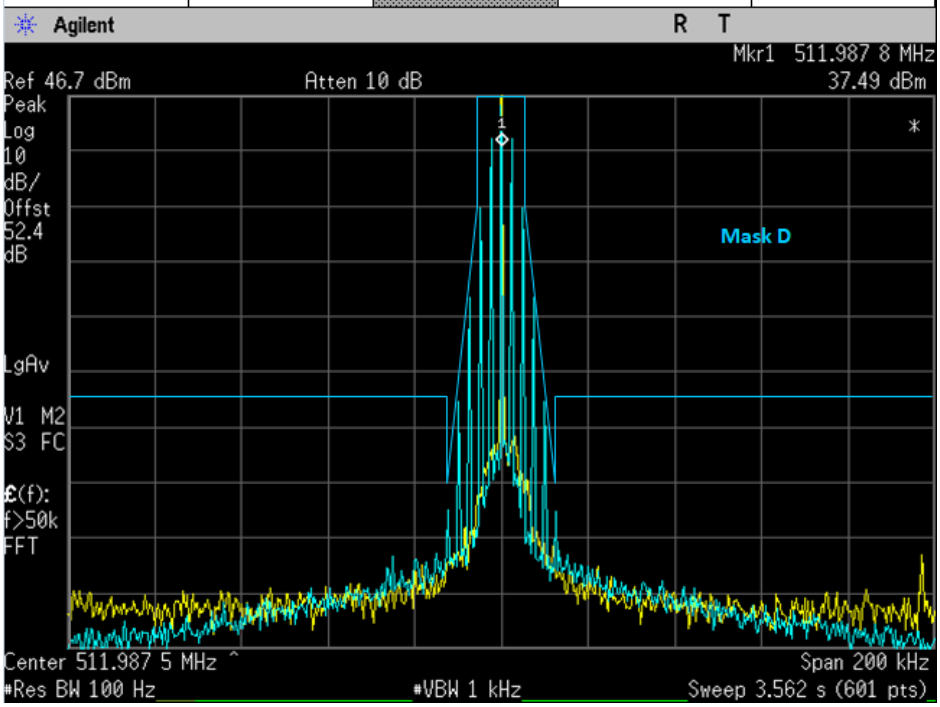
Modulation			Rules Part	
Analog Voice			90.210, 74.462(c),RSS 119	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
450.0250	12.5		9.9692	11K0F3E



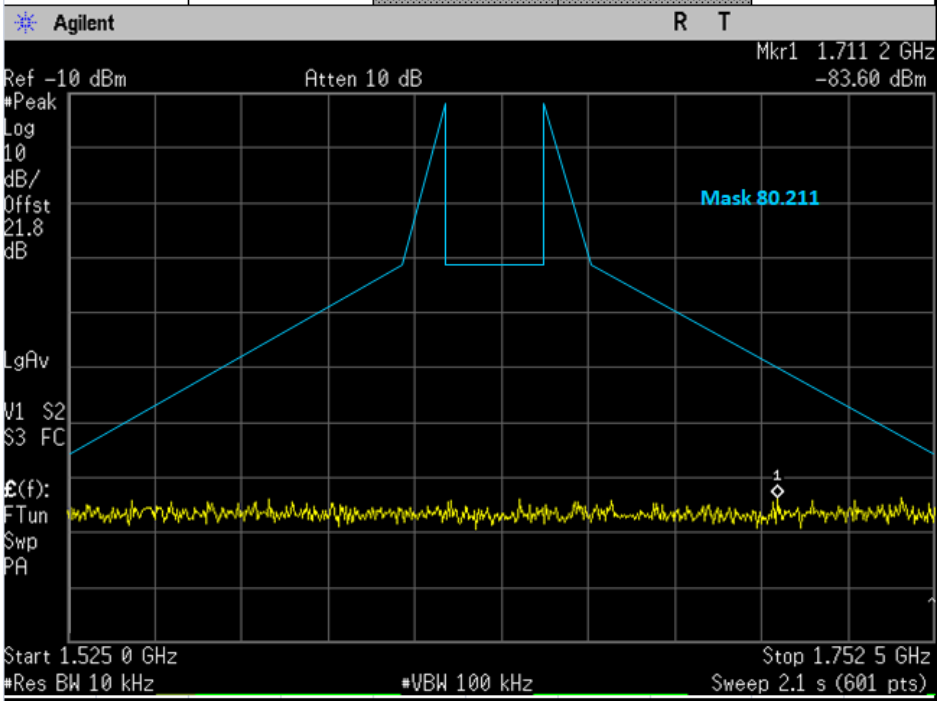
Modulation			Rules Part	
Analog Voice			90.210	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
473.0125	12.5		9.9825	11K0F3E



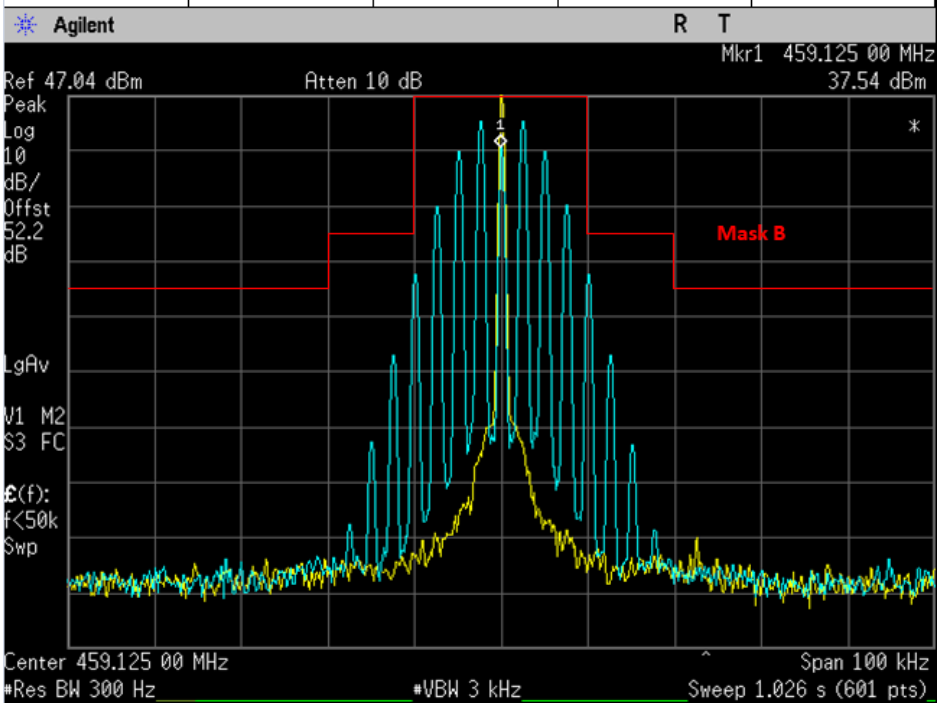
Modulation	Rules Part			
Analog Voice	90.210			
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
511.9875	12.5		9.9826	11K0F3E



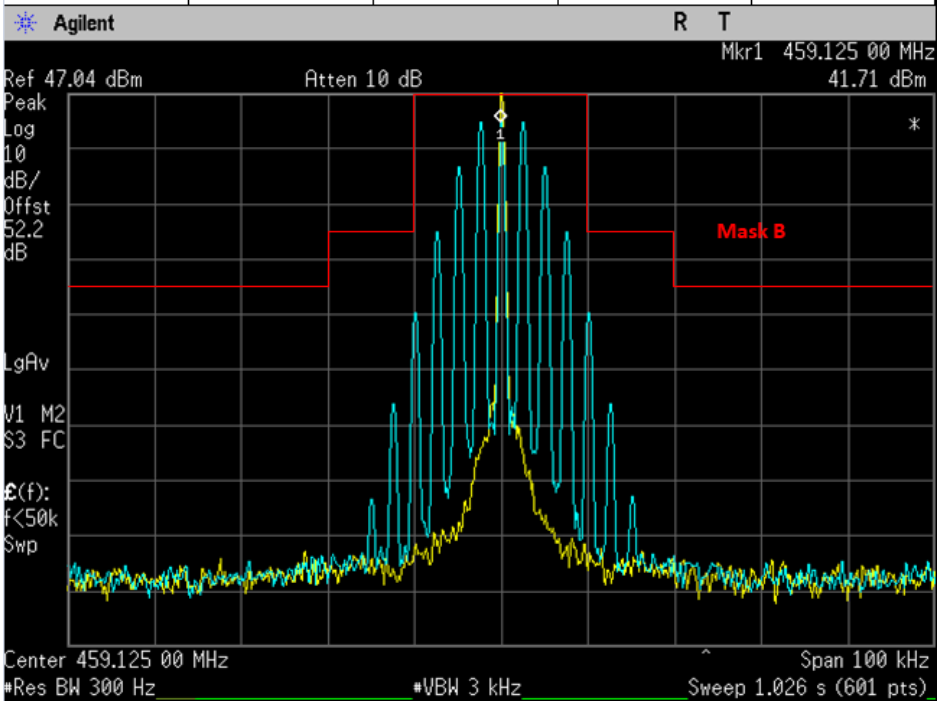
Modulation	Rules Part			
Analog Voice	80.211(c), RSS 182			
Channel Frequency (MHz)	**Channel Spacing (kHz)**			**Emission Designator**
467.7750	25.0			16K0F3E



Modulation	Rules Part			
Analog Voice	22.359(b)			
Channel Frequency (MHz)	**Channel Spacing (kHz)**	**-26 dB Point (kHz)**	**99% OCB (kHz)**	**Emission Designator**
459.1250	25.0	15.5637	15.0284	16K0F3E

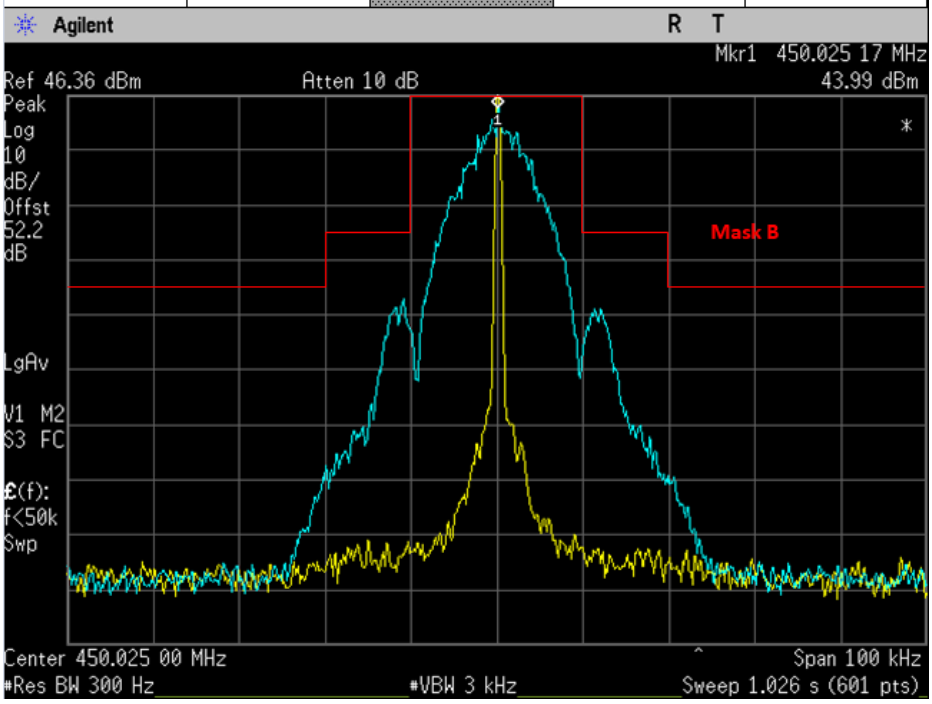


Modulation	Rules Part			
Analog Voice	22.359(b)			
Channel Frequency (MHz)	**Channel Spacing (kHz)**	**-26 dB Point (kHz)**	**99% OCB (kHz)**	**Emission Designator**
459.1250	20.0	15.4385	10.4244	16K0F3E

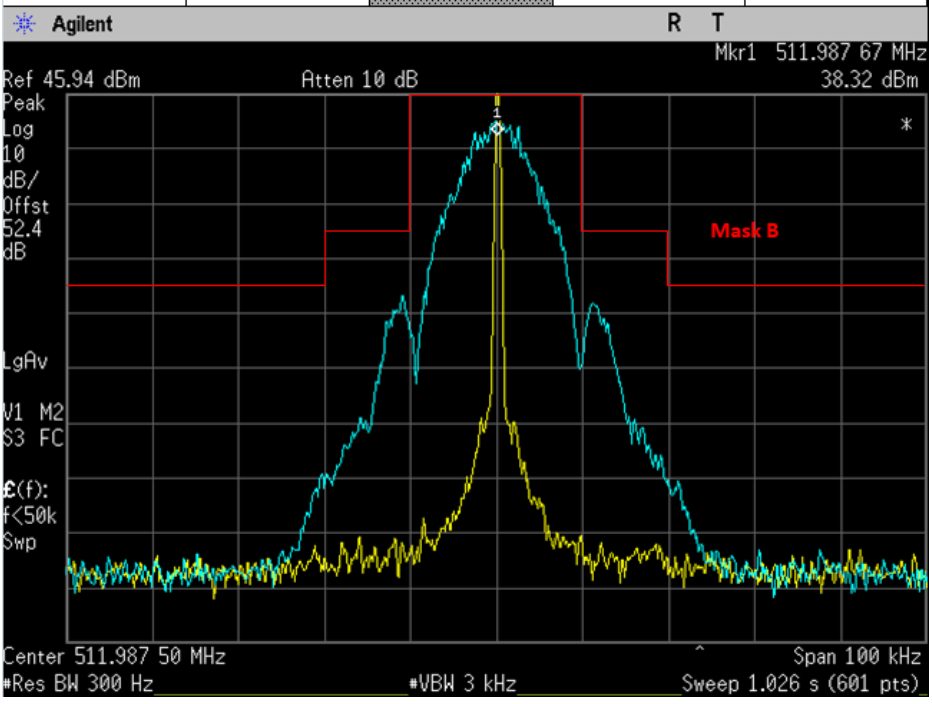


For Part 74 only

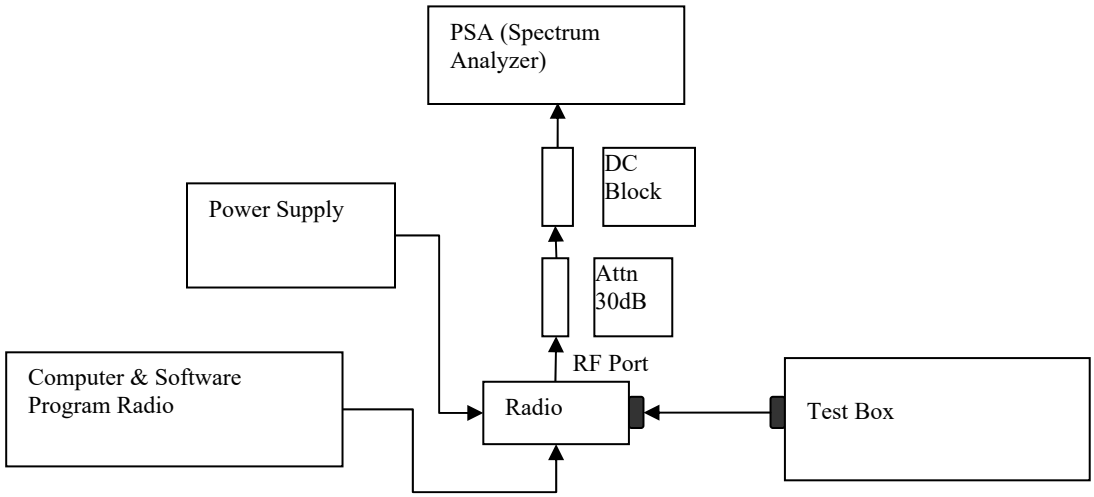
Modulation			Rules Part	
Analog Voice Encryption			74.462(c)	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
450.0250	20.0		11.9790	20K0F1E



Modulation			Rules Part	
Analog Voice Encryption			90.210 (T-band)	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
511.9875	20.0		11.9882	20K0F1E



6.6.3. Test Setup (Digital)



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

* 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.

6.6.4. Test Result (Digital)

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

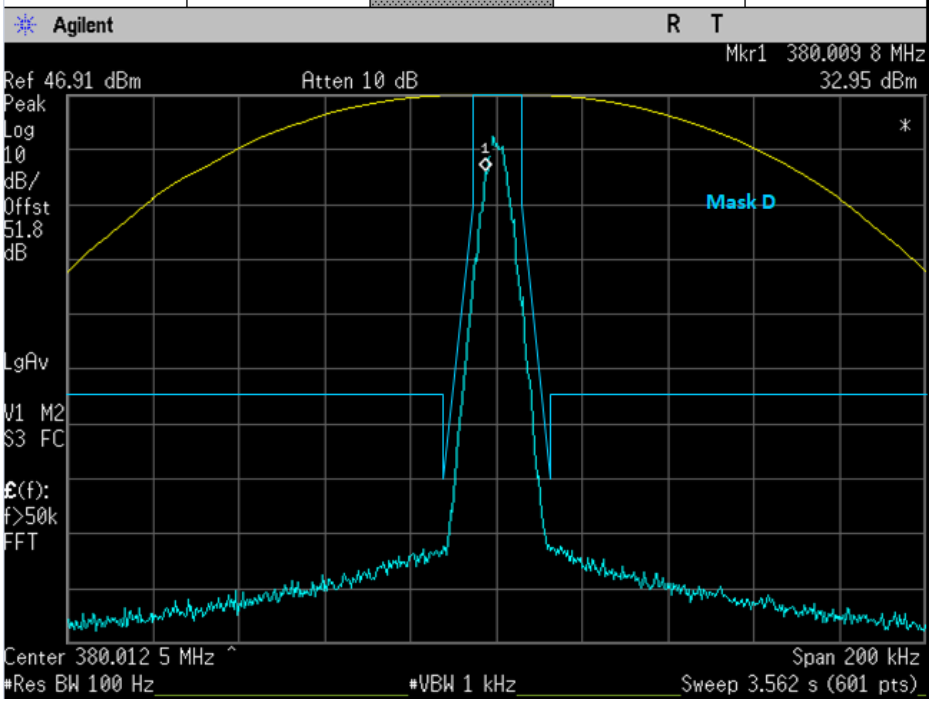
The 99% energy rule (title 47CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It basically states that 99% of the modulation energy falls within X kHz, in this case, 8.10 kHz. Measurements were performed in accordance with TIA/EIA TSB102.CAAB Section 2.2.5.2. The emission mask was obtained from 47CFR 90.210(d).

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

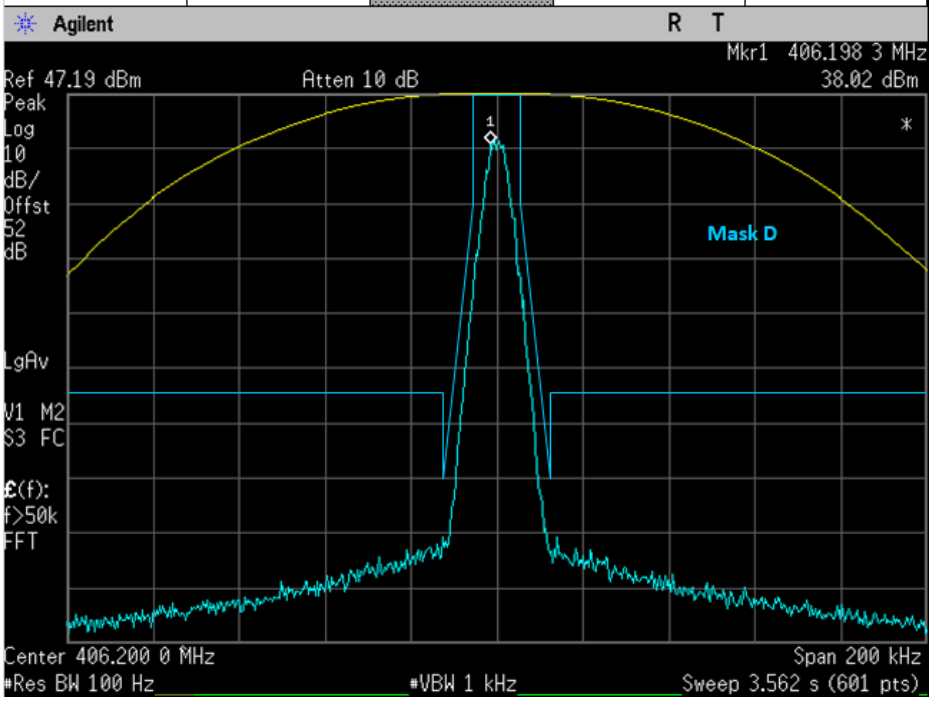
Therefore, the entire designator for 12.5 kHz channelization digital voice is 8K10F1E /D/W.

Not for FCC review

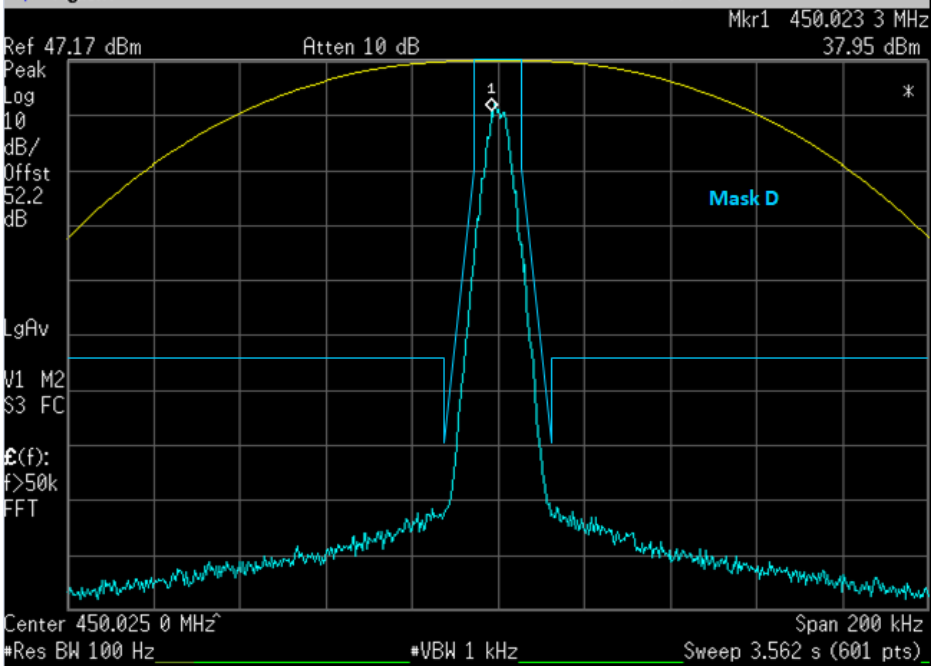
Modulation	Rules Part			
C4FM Data	RSS 119			
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
380.0125	12.5		7.8111	8K10F1D



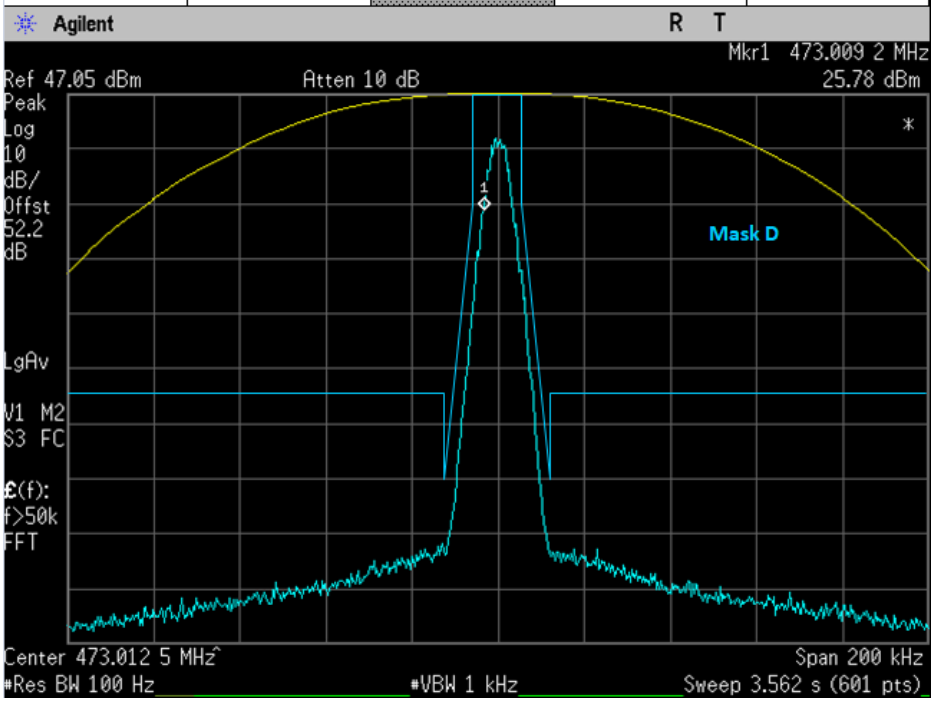
Modulation	Rules Part			
C4FM Data	90.210/ RSS 119			
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
406.2000	12.5		7.9136	8K10F1D



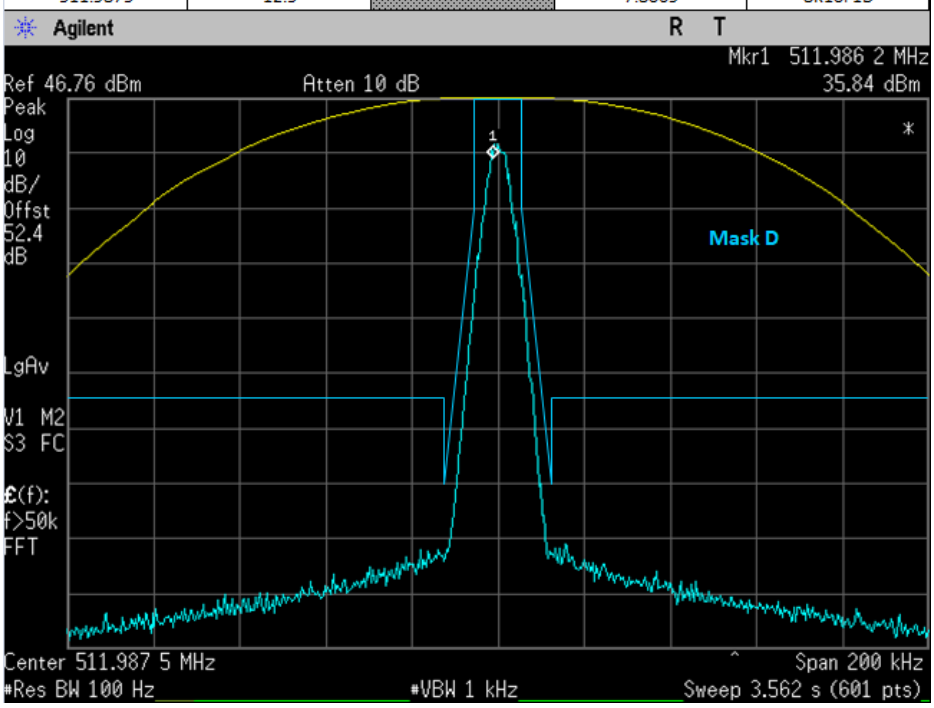
Modulation			Rules Part	
C4FM Data			90.210/ 74.462(c)/ RSS 119	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
450.0250	12.5		7.9556	8K10F1D



Modulation			Rules Part	
C4FM Data			90.210	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
473.0125	12.5		8.0144	8K10F1D

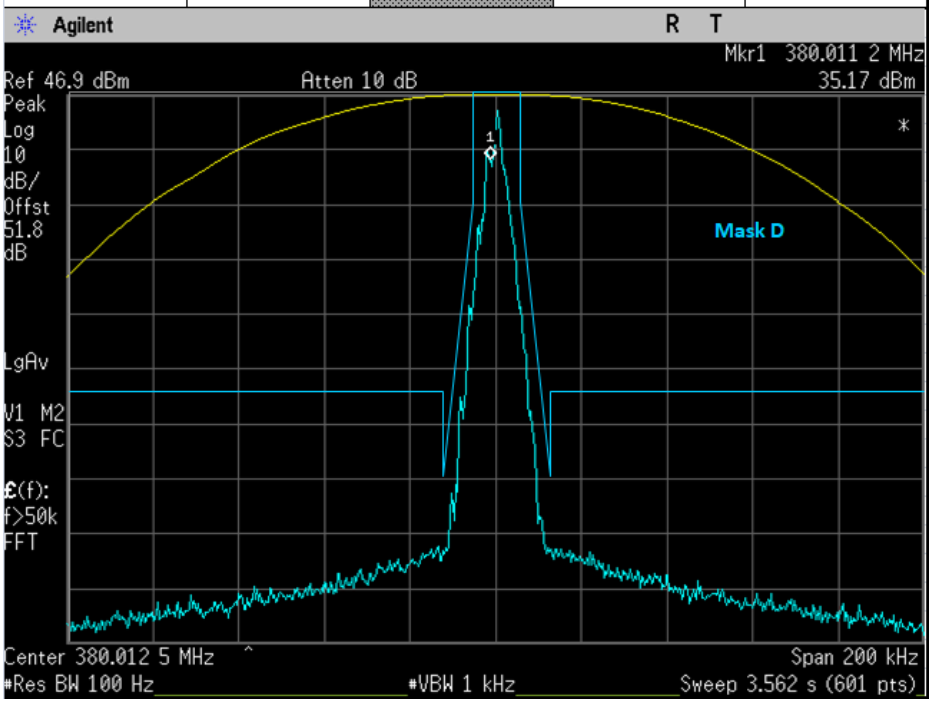


Modulation			Rules Part	
C4FM Data			90.210	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
511.9875	12.5		7.8069	8K10F1D

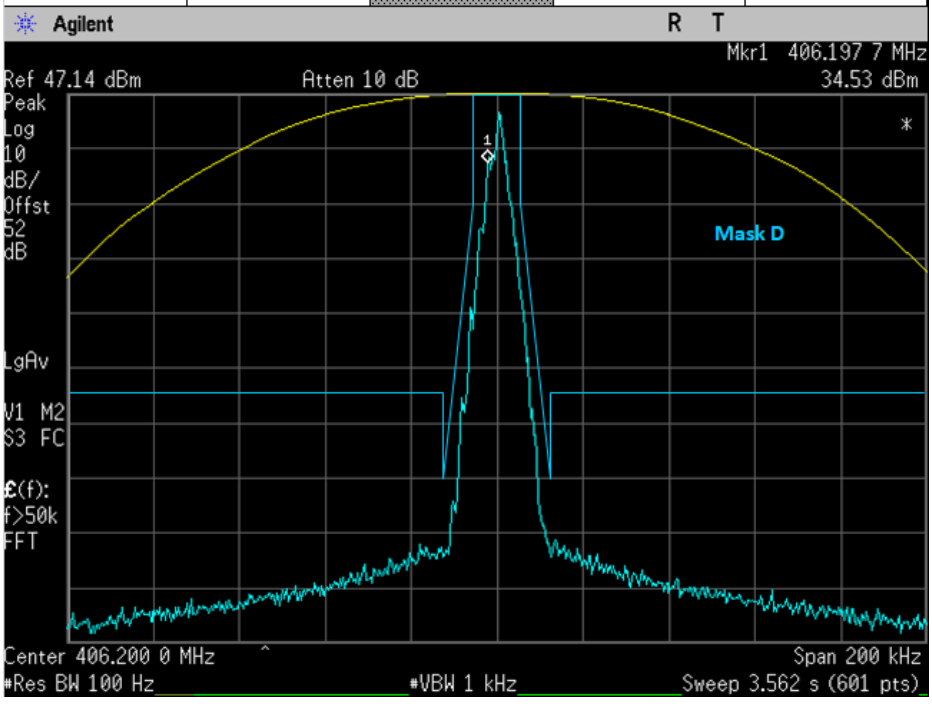


Not for FCC review

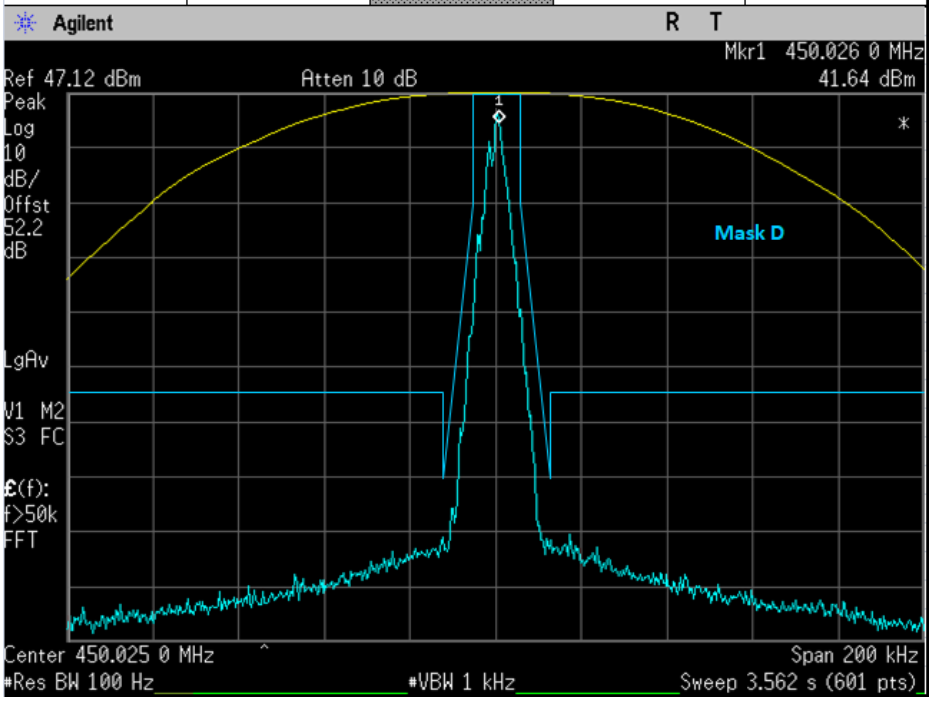
Modulation			Rules Part	
C4FM Voice			RSS 119	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
380.0125	12.5		6.1644	8K10F1E



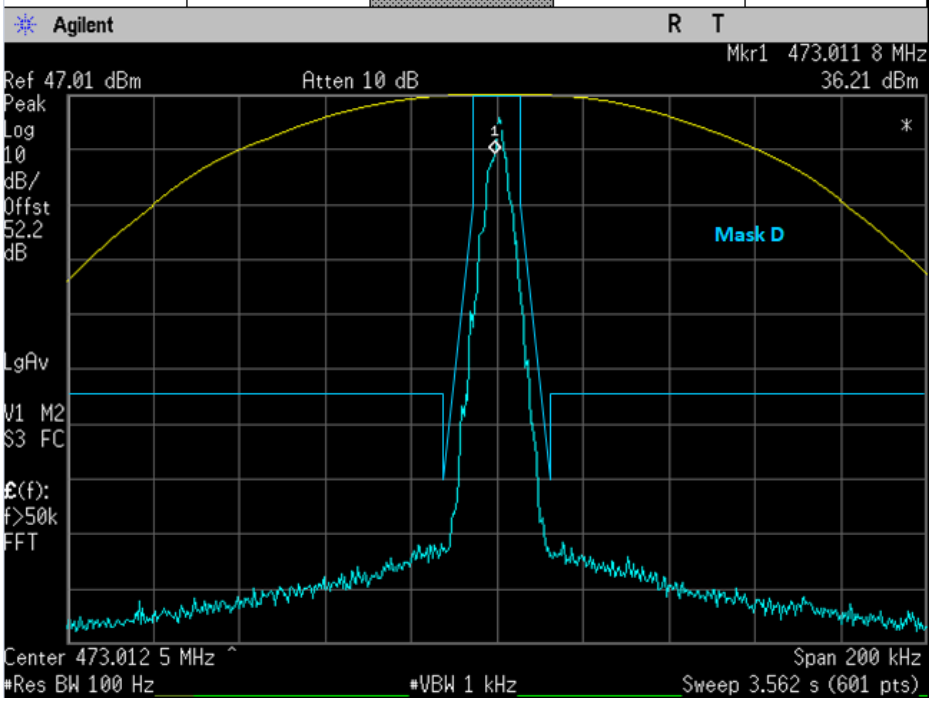
Modulation			Rules Part	
C4FM Voice			90.210/ RSS 119	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
406.2000	12.5		7.2347	8K10F1E



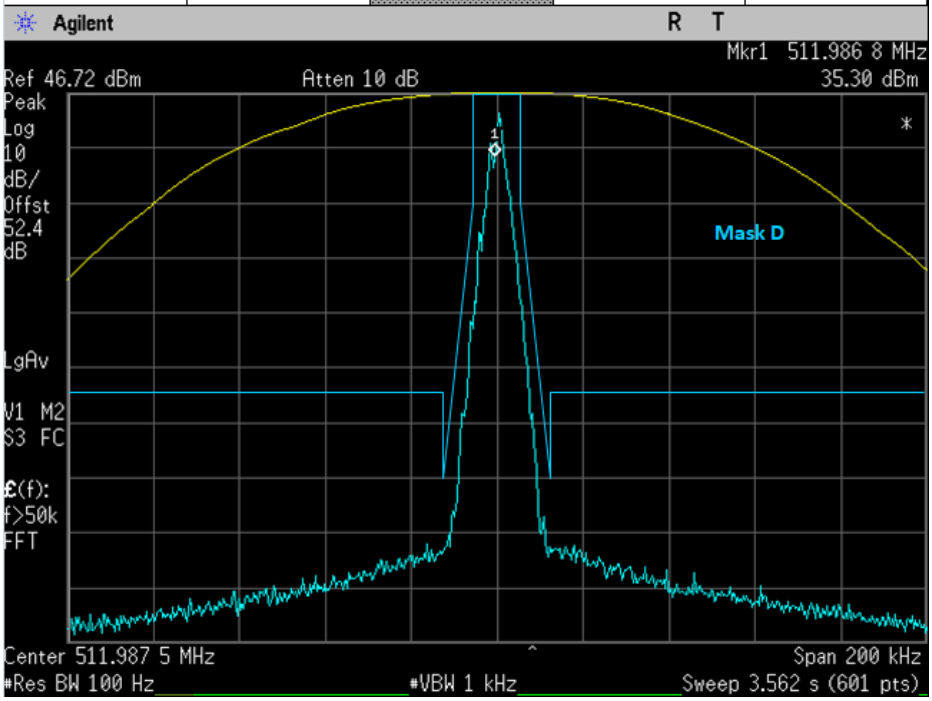
Modulation			Rules Part	
C4FM Voice			90.210/ 74.462(c)/ RSS 119	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
450.0250	12.5		6.7566	8K10F1E



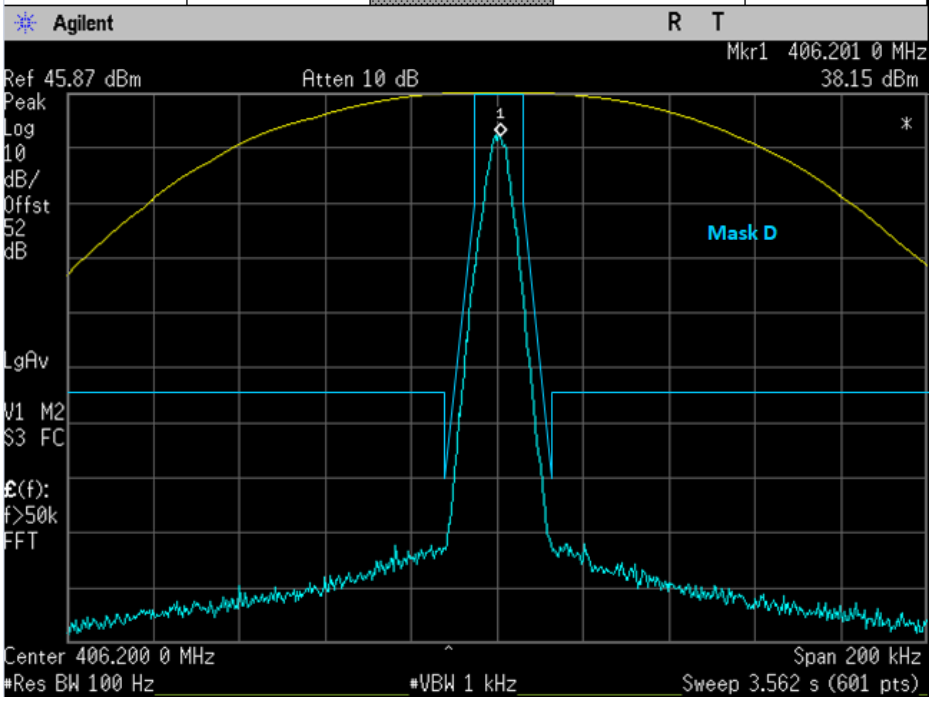
Modulation			Rules Part	
C4FM Voice			90.210	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
473.0125	12.5		7.0457	8K10F1E



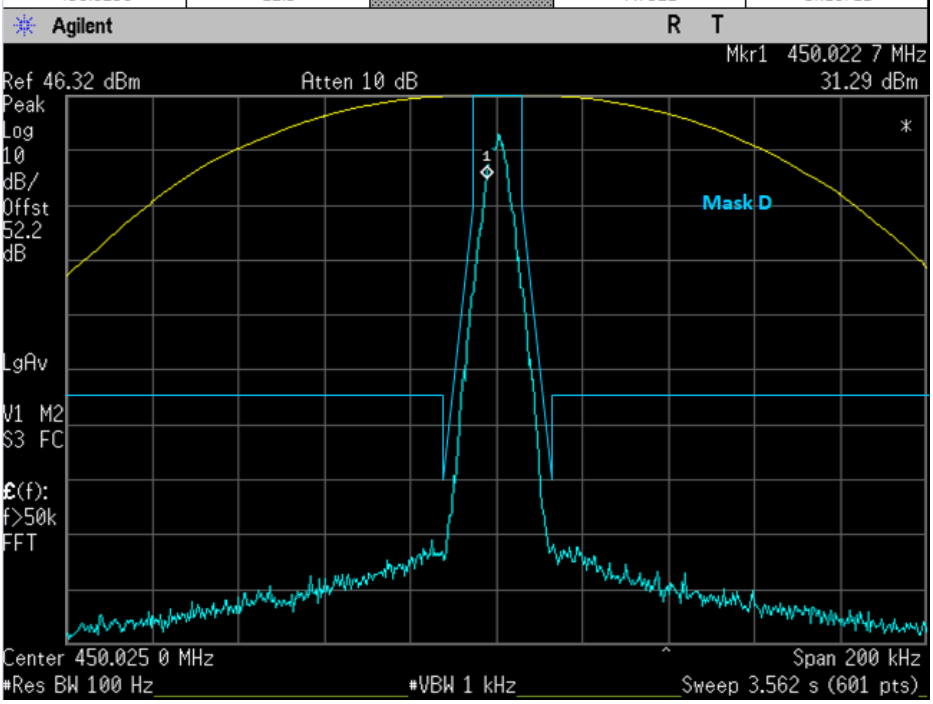
Modulation			Rules Part	
C4FM Voice			90.210	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
511.9875	12.5		6.4894	8K10F1E



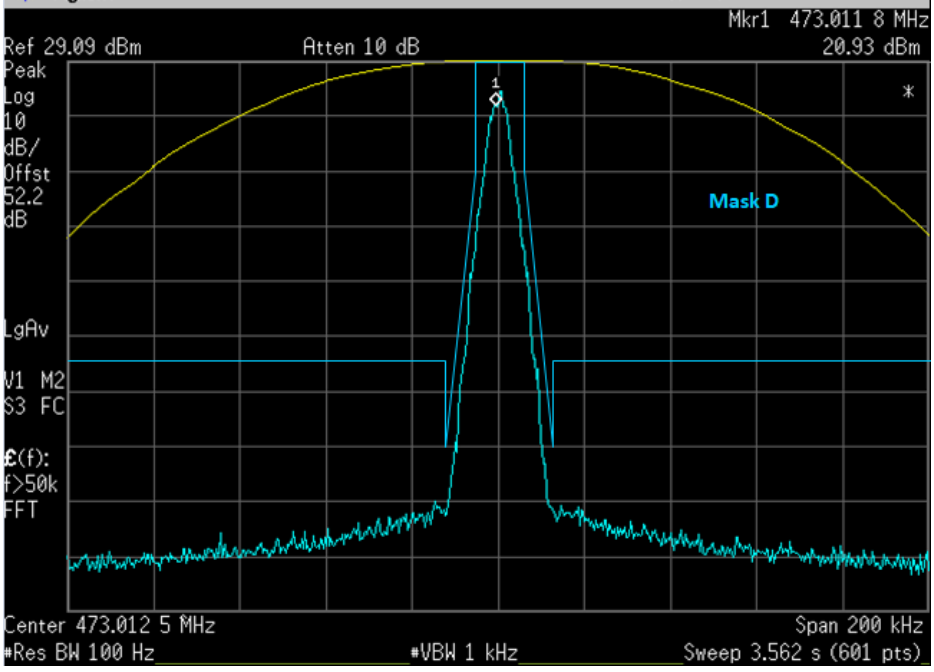
Modulation	Rules Part			
C4FM Voice Encryption	90.210/ RSS 119			
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
406.2000	12.5		7.9982	8K10F1E



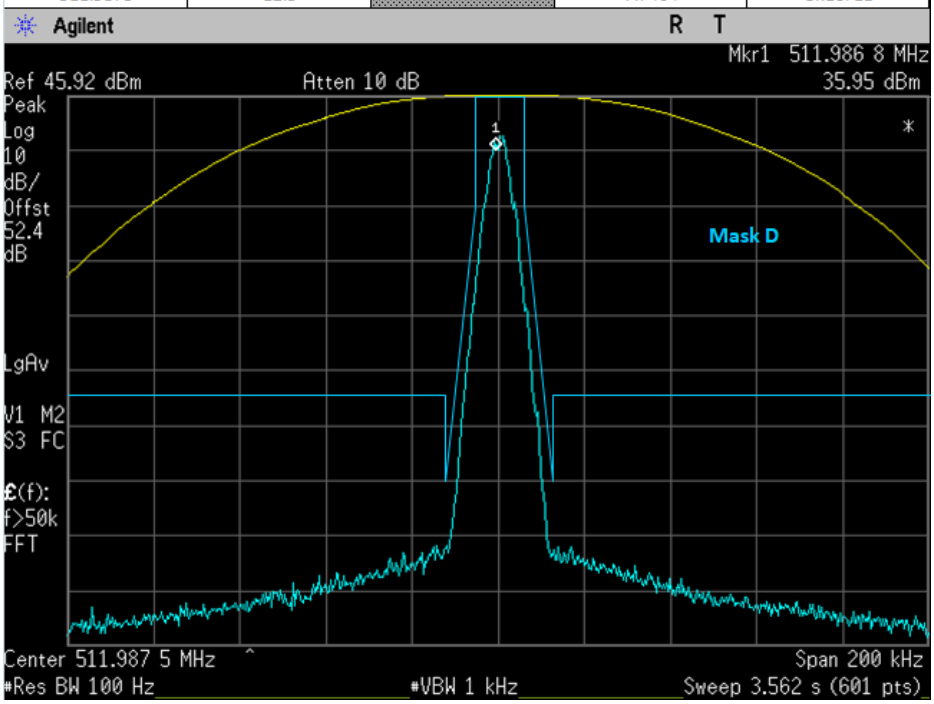
Modulation	Rules Part			
C4FM Voice Encryption	90.210/ 74.462(c)/ RSS 119			
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
450.0250	12.5		7.7522	8K10F1E



Modulation			Rules Part	
C4FM Voice Encryption			90.210	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
473.0125	12.5		7.7106	8K10F1E

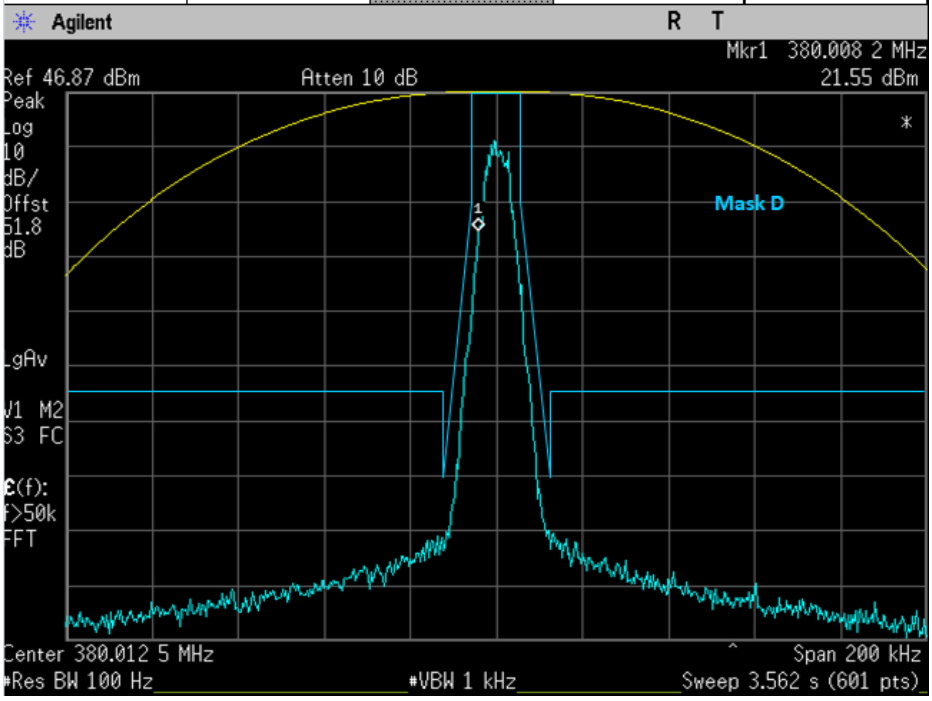


Modulation			Rules Part	
C4FM Voice Encryption			90.210	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
511.9875	12.5		7.7464	8K10F1E

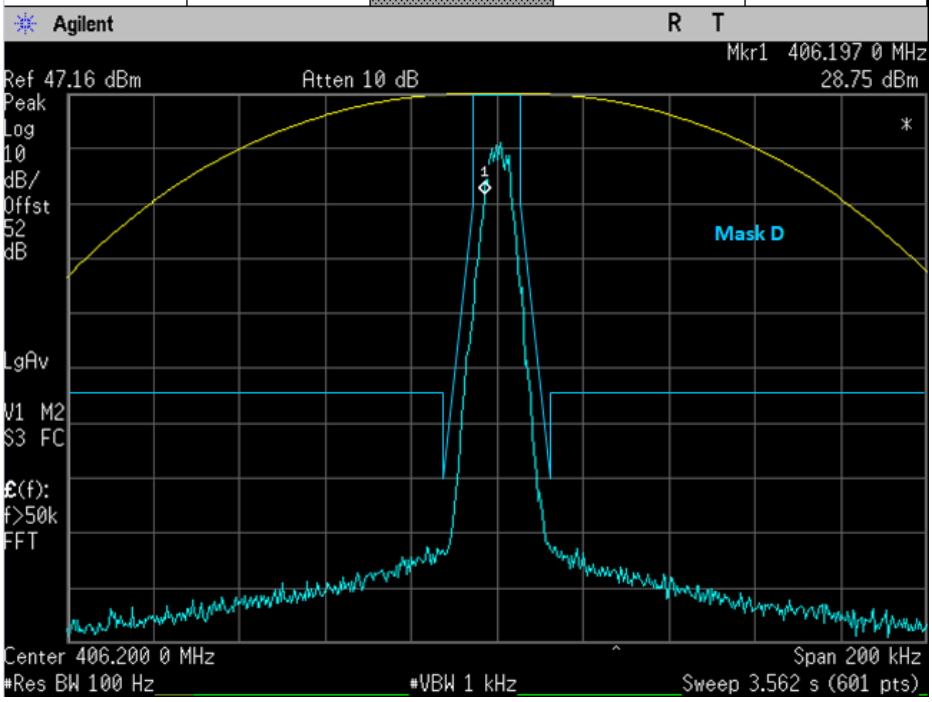


Not for FCC review

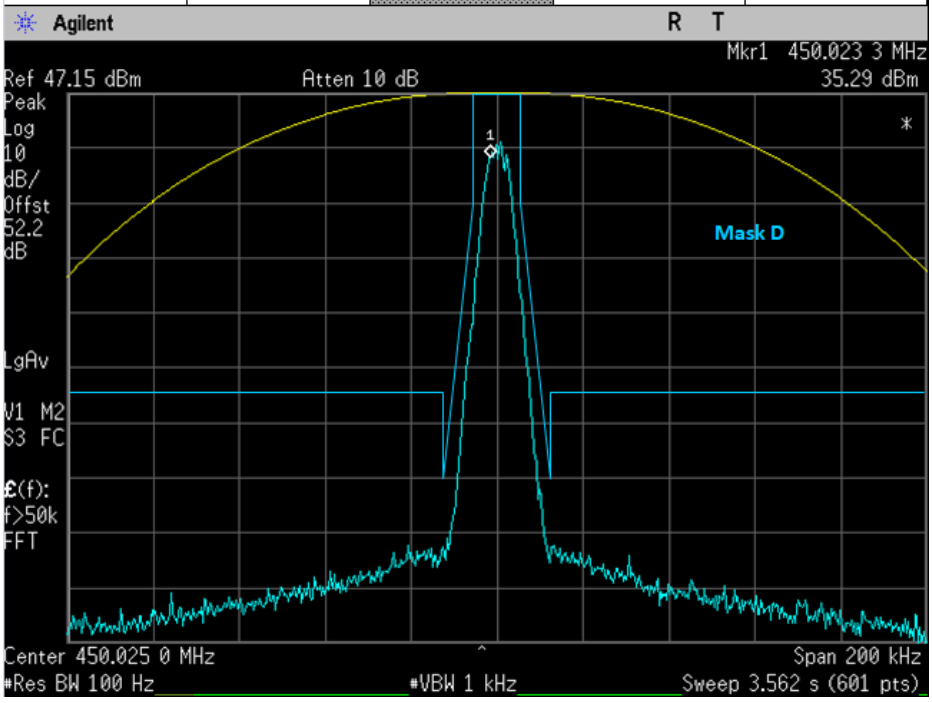
Modulation			Rules Part	
Phase II			RSS 119	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
380.0125	12.5		8.0661	8K10F1W



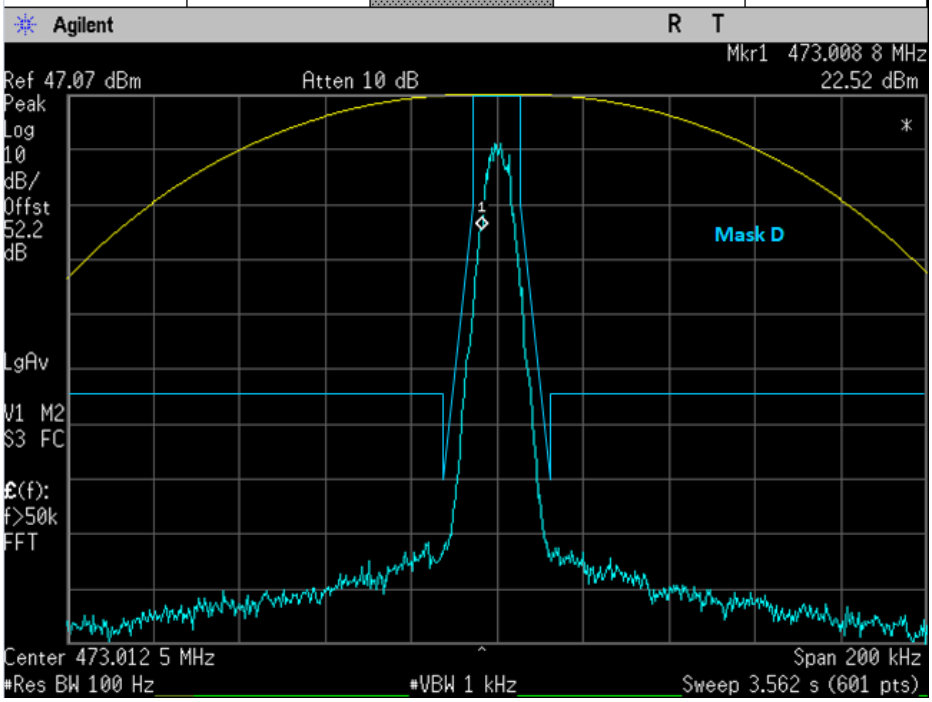
Modulation			Rules Part	
Phase II			90.210/ RSS 119	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
406.2000	12.5		7.7824	8K10F1W



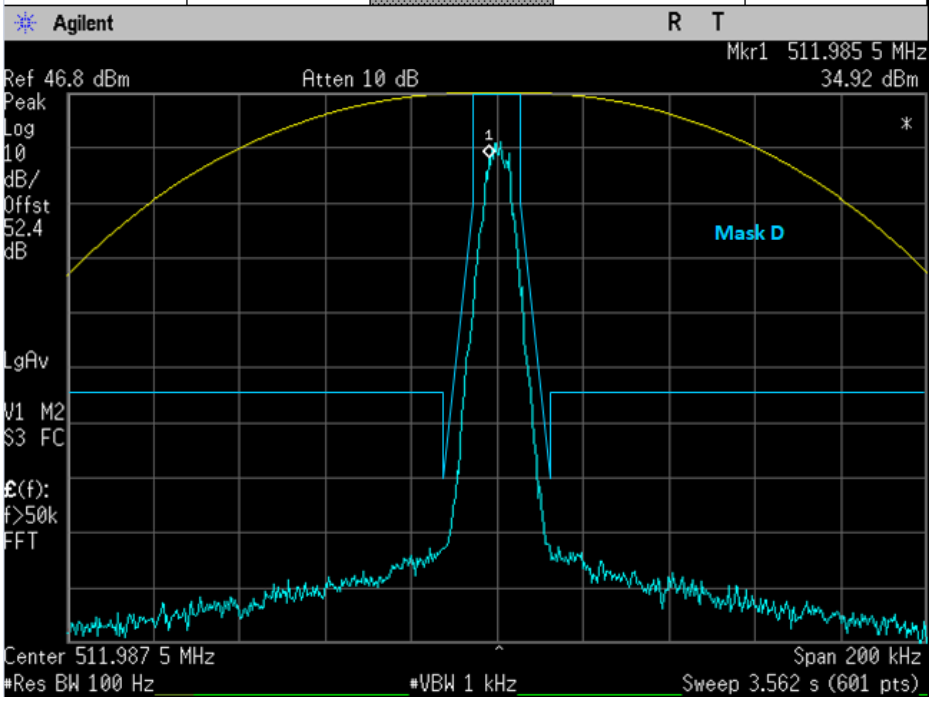
Modulation			Rules Part	
Phase II			90.210/ RSS 119	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
450.0250	12.5		8.0559	8K10F1W



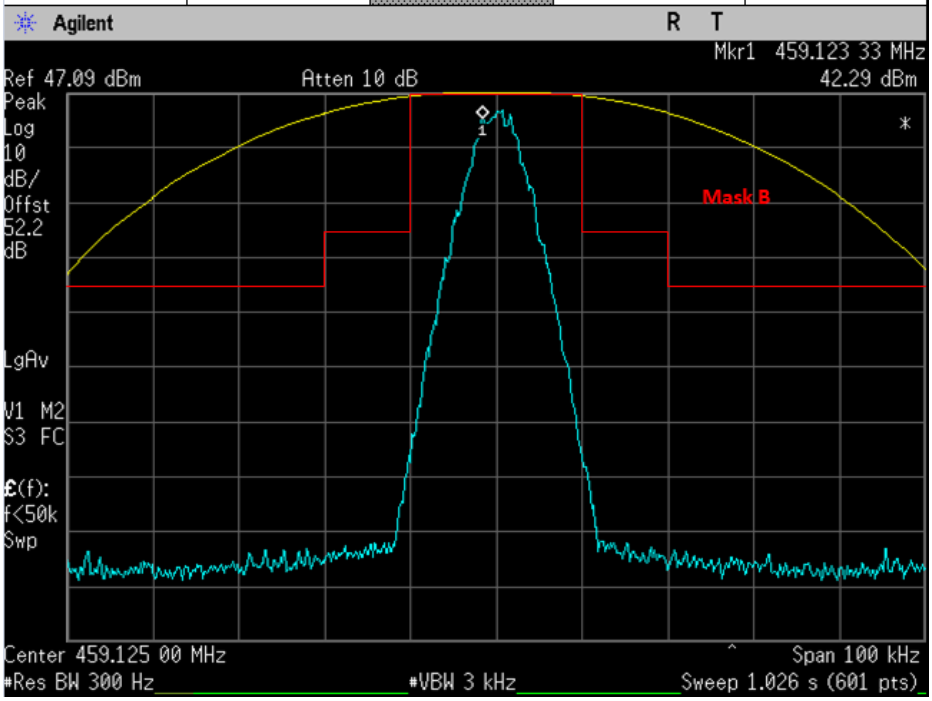
Modulation			Rules Part	
Phase II			90.210	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
473.0125	12.5		7.9669	8K10F1W



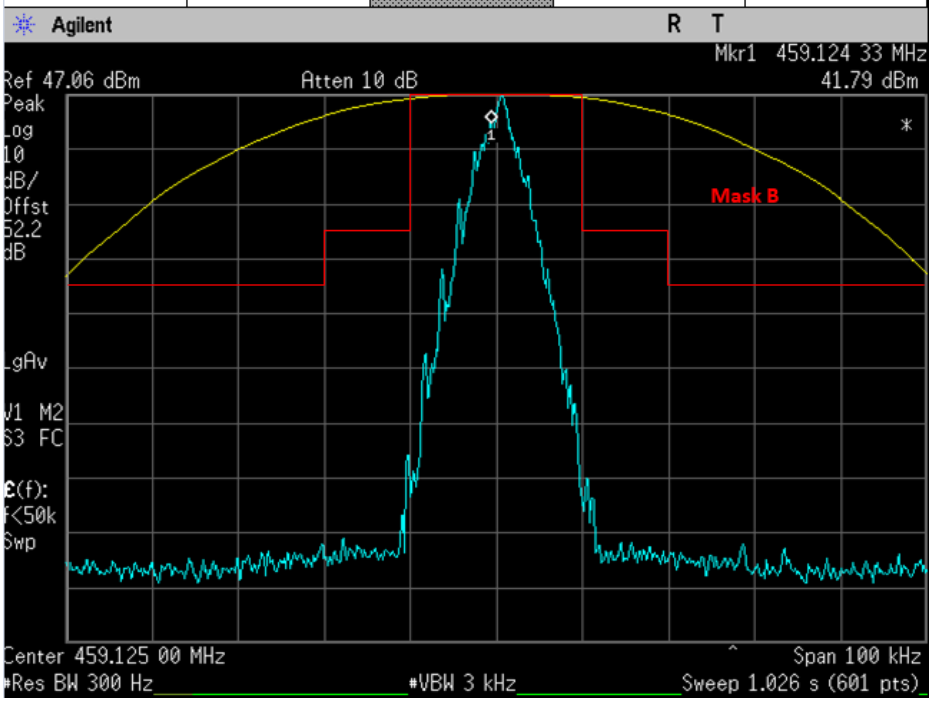
Modulation			Rules Part	
Phase II			90.210	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
511.9875	12.5		8.0721	8K10F1W



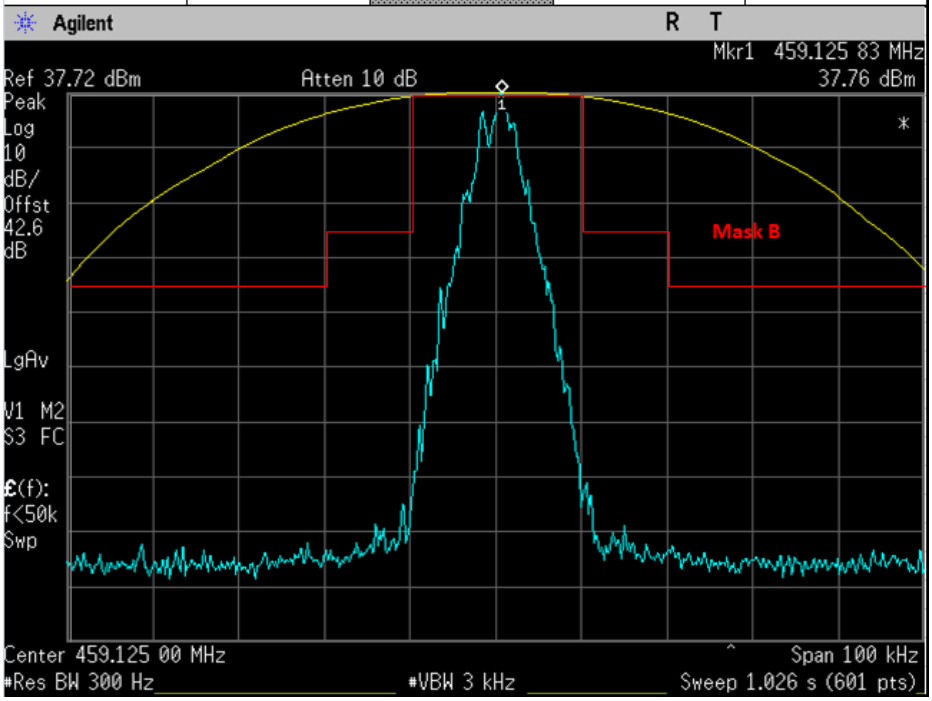
Modulation			Rules Part	
C4FM Data			22.359(b)	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
459.1250	12.5		7.8186	8K10F1D



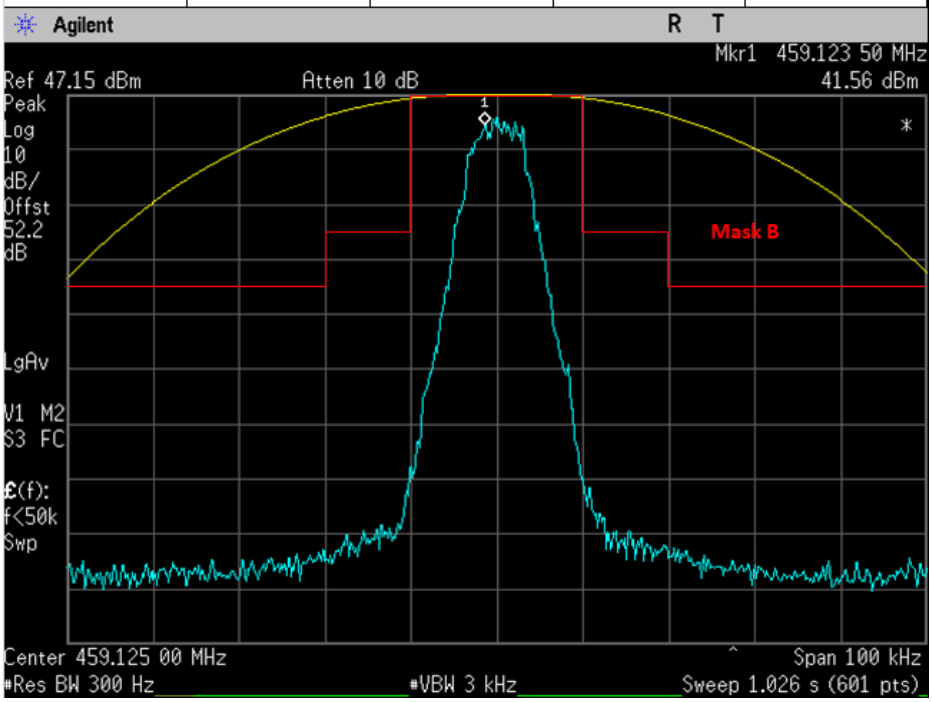
Modulation			Rules Part	
C4FM Voice			22.359(b)	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
459.1250	12.5		7.1837	8K10F1E



Modulation			Rules Part	
C4FM Voice Encryption			22.359(b)	
Channel Frequency (MHz)	**Channel Spacing (kHz)**		**99% OCB (kHz)**	**Emission Designator**
459.1250	12.5		7.5011	8K10F1E



Modulation			Rules Part	
Phase II			22.359(b)	
Channel Frequency (MHz)	**Channel Spacing (kHz)**	**-26 dB Point (kHz)**	**99% OCB (kHz)**	**Emission Designator**
459.1250	12.5	10.2580	7.9743	8K10F1W



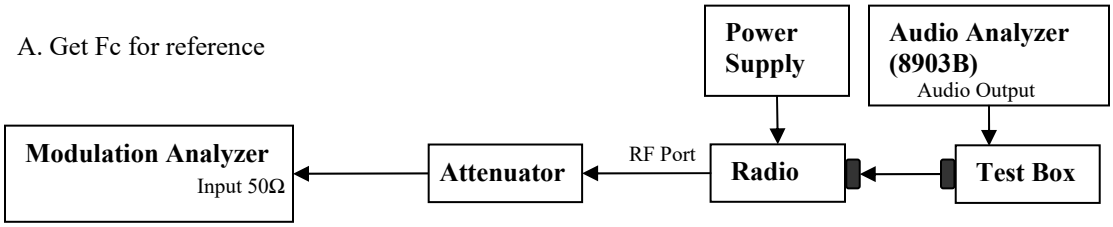
6.6.5. Test Limit

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

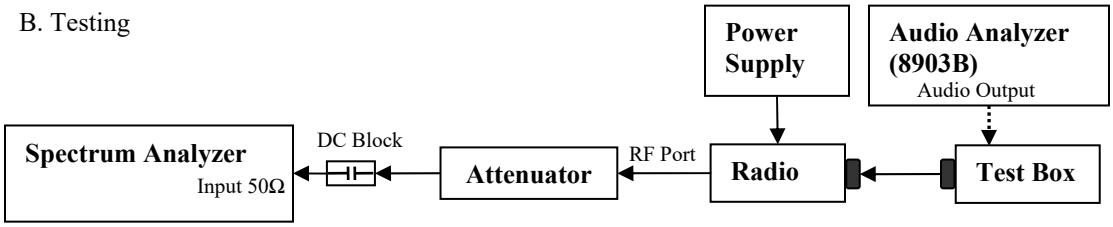
6.7. Band Edge Conducted Spurious Emission (Part 22)

6.7.1. Test Setup (Analog)

A. Get Fc for reference



B. Testing



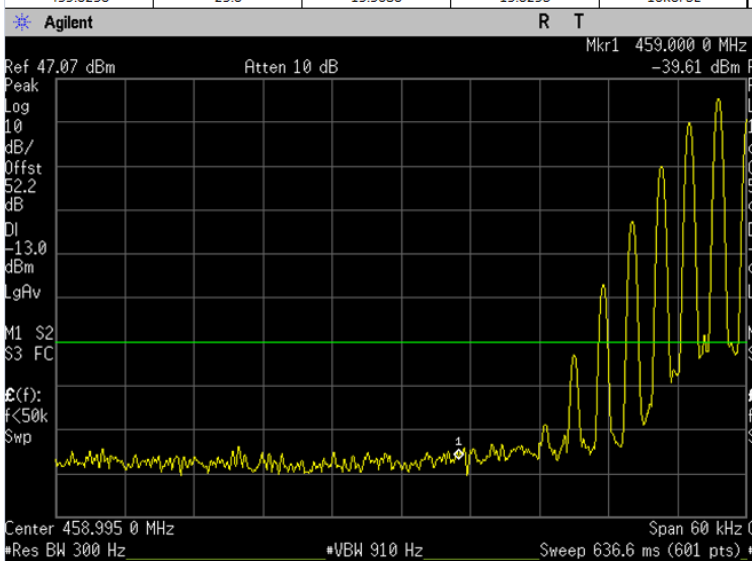
1) The DUT transmitter output port was connected to Modulation Analyzer.
2) Set the audio bandwidth filter to 15 kHz low pass filter and 50 kHz high pass filter.
3) Transmit the radio and set the audio analyzer to 2.5 kHz audio frequency and 50% of the rated deviation. Up the amplitude by 16 dB. Dekey the DUT.
4) Path loss for the measurement included.
5) Select the Occupied Bandwidth measurement for 99% 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.

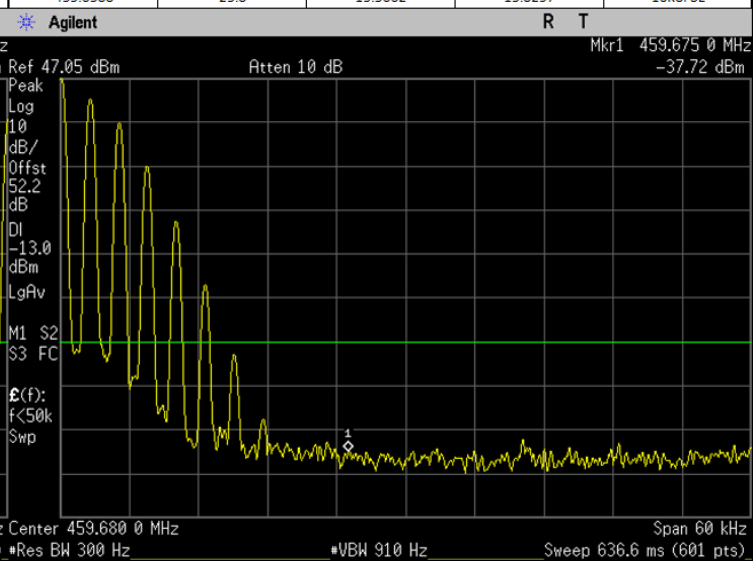
6.7.2. Test Result (Analog)

MAX POWER

Modulation	Rules Part			
Analog Voice	22.359(b)			
Channel Frequency	**Channel Spacing**	**-26 dB Point (kHz)**	**99% OCB**	**Emission Designator**
459.0250	25.0	15.5680	15.0293	16K0F3E

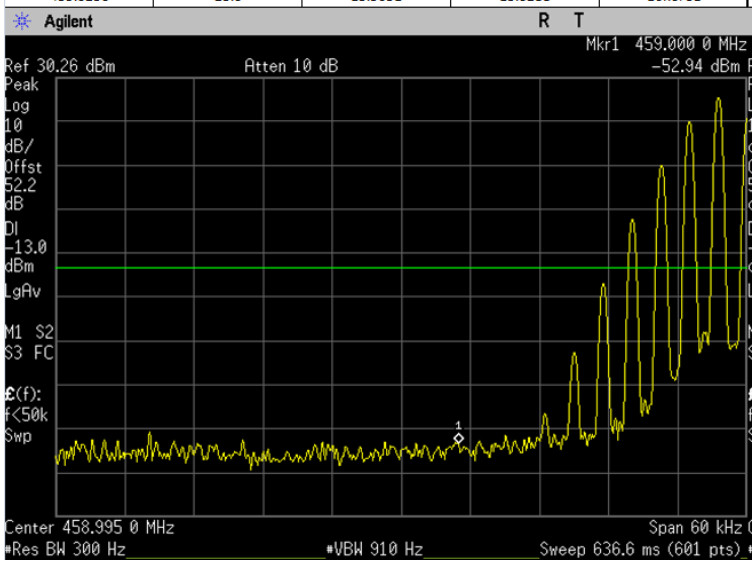


Modulation	Rules Part			
Analog Voice	22.359(b)			
Channel Frequency	**Channel Spacing**	**-26 dB Point (kHz)**	**99% OCB**	**Emission Designator**
459.6500	25.0	15.5662	15.0297	16K0F3E

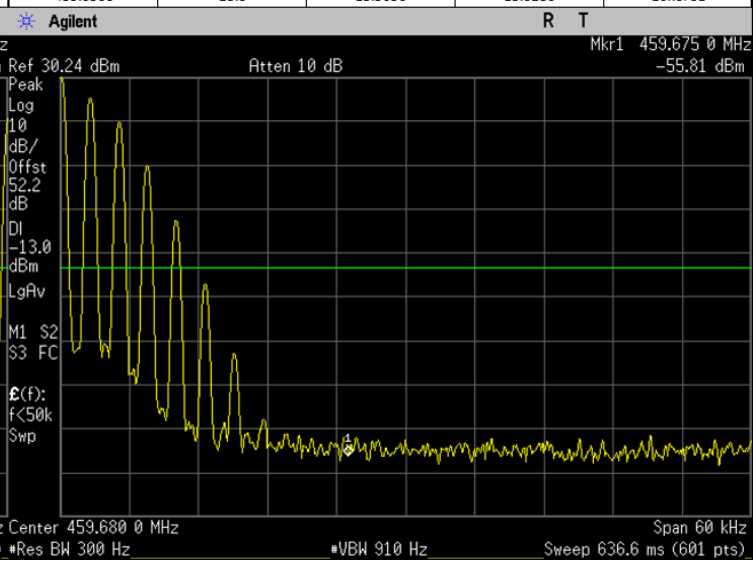


LOW POWER

Modulation	Rules Part			
Analog Voice	22.359(b)			
Channel Frequency	**Channel Spacing**	**-26 dB Point (kHz)**	**99% OCB**	**Emission Designator**
459.0250	25.0	15.5651	15.0288	16K0F3E



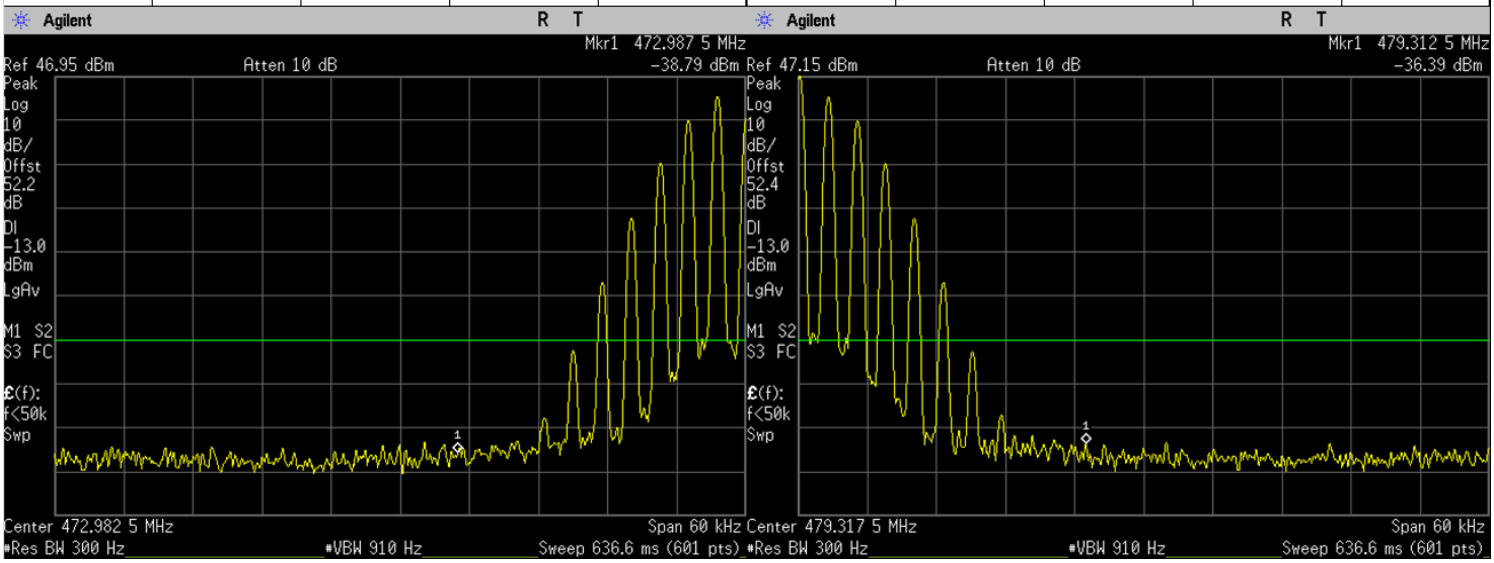
Modulation	Rules Part			
Analog Voice	22.359(b)			
Channel Frequency	**Channel Spacing**	**-26 dB Point (kHz)**	**99% OCB**	**Emission Designator**
459.6500	25.0	15.5656	15.0286	16K0F3E



MAX POWER

Modulation		Rules Part		
Analog Voice		22.359(b)		
Channel Frequency	**Channel Spacing**	**-26 dB Point (kHz)**	**99% OCB**	**Emission Designator**
473.0125	25.0	15.5664	15.0349	16K0F3E

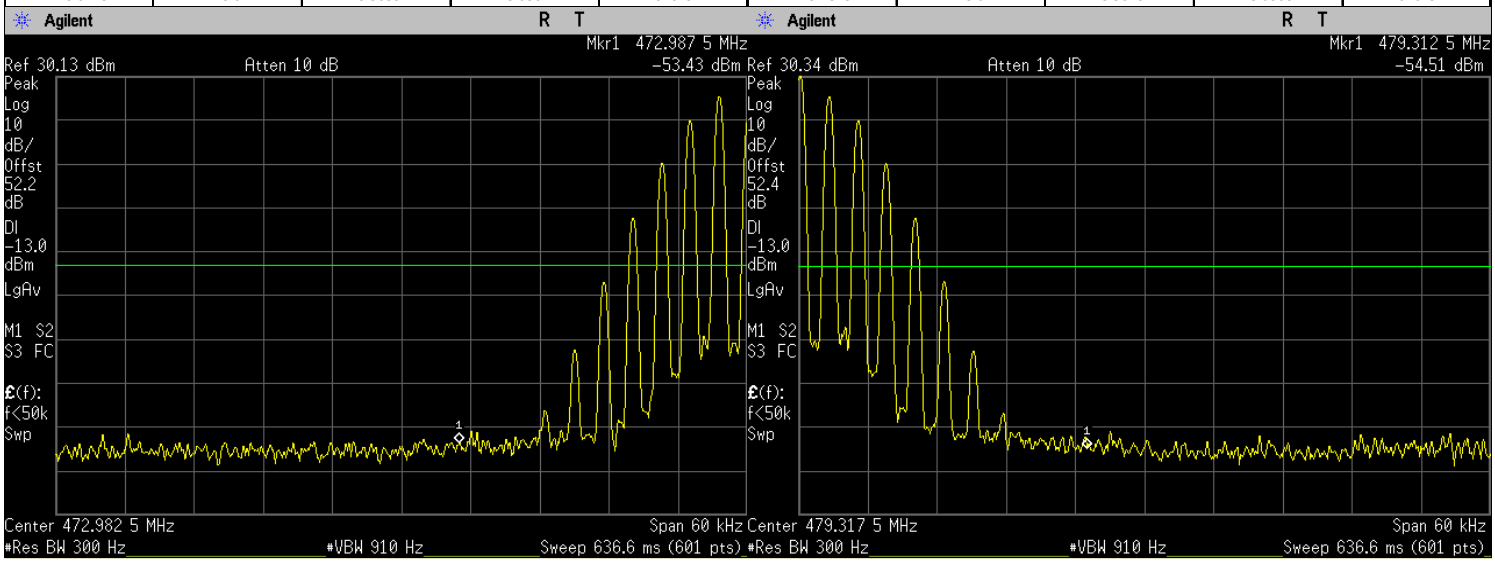
Modulation		Rules Part		
Analog Voice		22.359(b)		
Channel Frequency	**Channel Spacing**	**-26 dB Point (kHz)**	**99% OCB**	**Emission Designator**
479.2875	25.0	15.5645	15.0367	16K0F3E



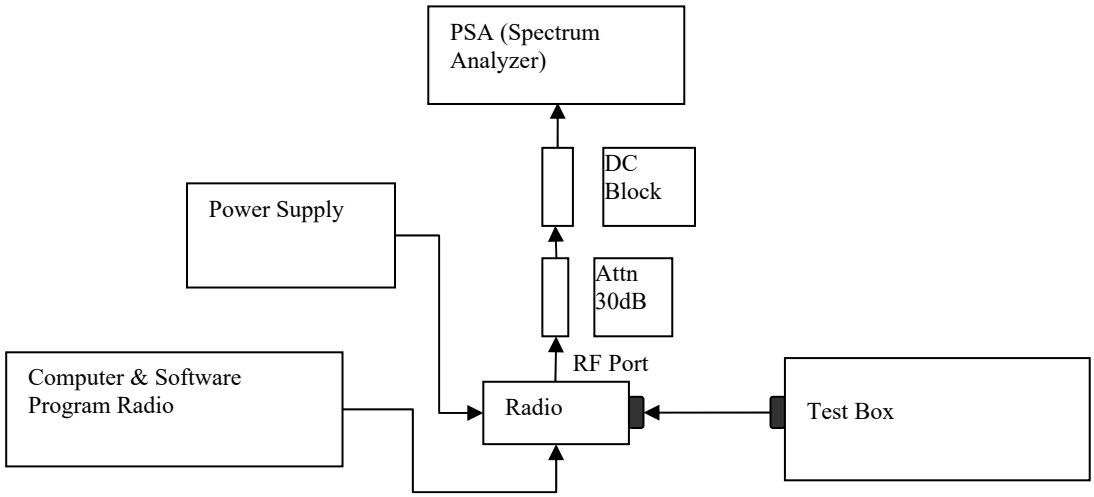
LOW POWER

Modulation		Rules Part		
Analog Voice		22.359(b)		
Channel Frequency	**Channel Spacing**	**-26 dB Point (kHz)**	**99% OCB**	**Emission Designator**
473.0125	25.0	15.5659	15.0367	16K0F3E

Modulation		Rules Part		
Analog Voice		22.359(b)		
Channel Frequency	**Channel Spacing**	**-26 dB Point (kHz)**	**99% OCB**	**Emission Designator**
479.2875	25.0	15.5673	15.0368	16K0F3E



6.7.3. Test Setup (Digital)



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

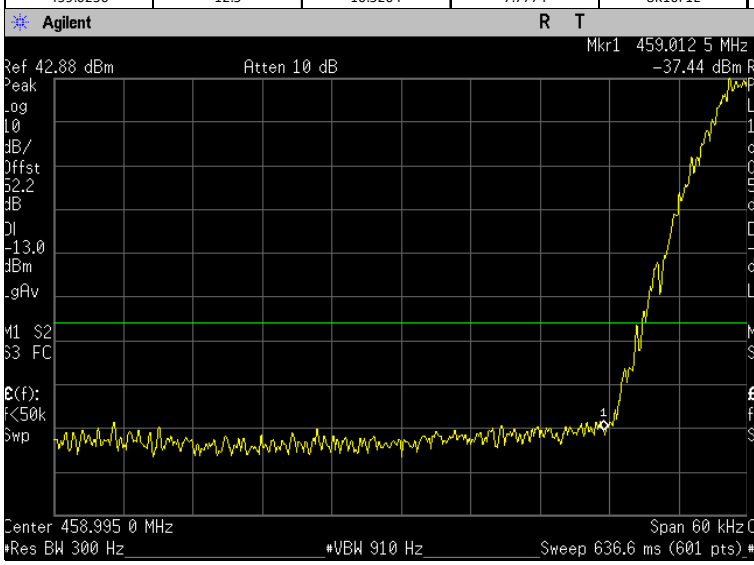
*Note:

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

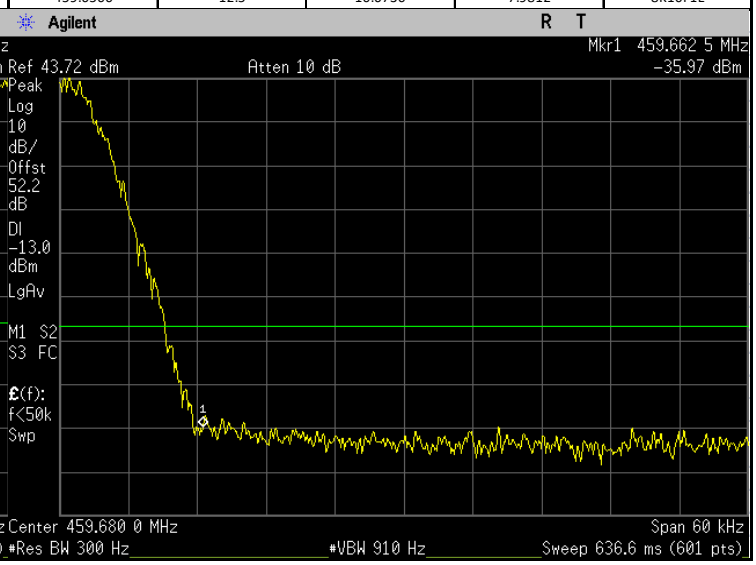
6.7.4. Test Result (Digital)

MAX POWER

Modulation	Rules Part			
C4FM Data	22.359(b)			
Channel Frequency	**Channel Spacing**	**-26 dB Point (kHz)**	**99% OCB**	**Emission Designator**
459.0250	12.5	10.5204	7.7774	8K10F1E

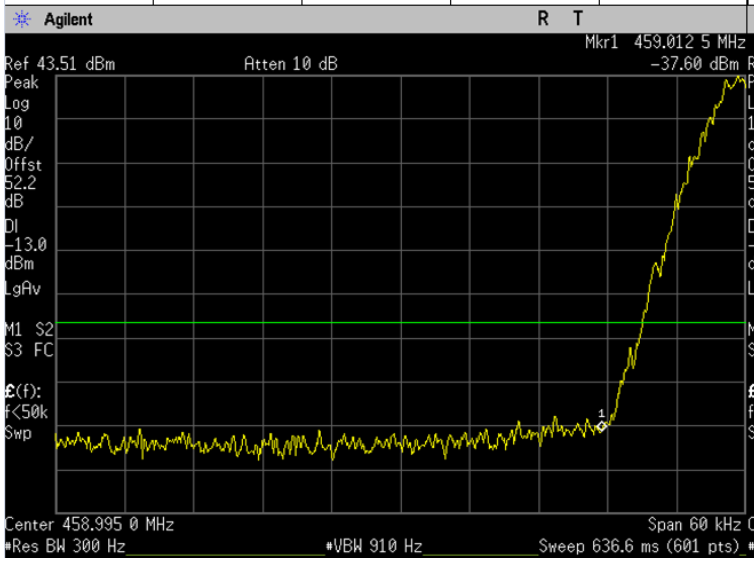


Modulation	Rules Part			
C4FM Data	22.359(b)			
Channel Frequency	**Channel Spacing**	**-26 dB Point (kHz)**	**99% OCB**	**Emission Designator**
459.6500	12.5	10.6730	7.9812	8K10F1E

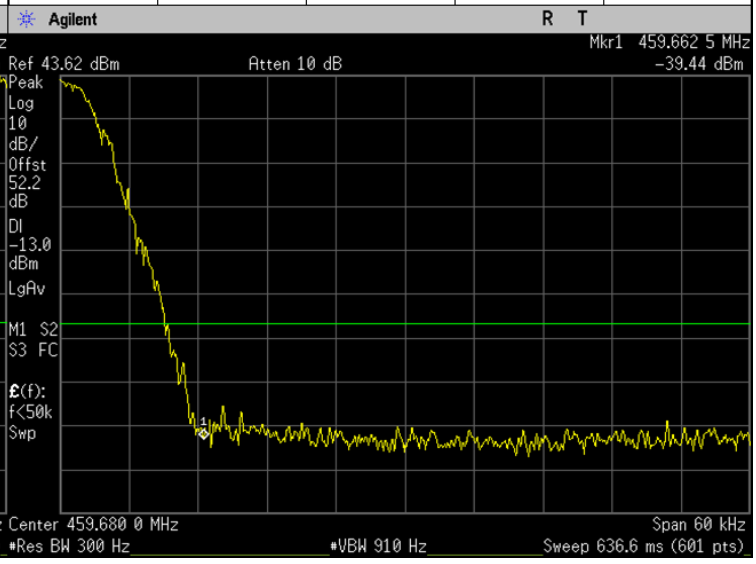


LOW POWER

Modulation	Rules Part			
C4FM Data	22.359(b)			
Channel Frequency	**Channel Spacing**	**-26 dB Point (kHz)**	**99% OCB**	**Emission Designator**
459.0250	12.5	10.6854	7.8363	8K10F1E



Modulation	Rules Part			
C4FM Data	22.359(b)			
Channel Frequency	**Channel Spacing**	**-26 dB Point (kHz)**	**99% OCB**	**Emission Designator**
459.6500	12.5	10.5178	7.9954	8K10F1E



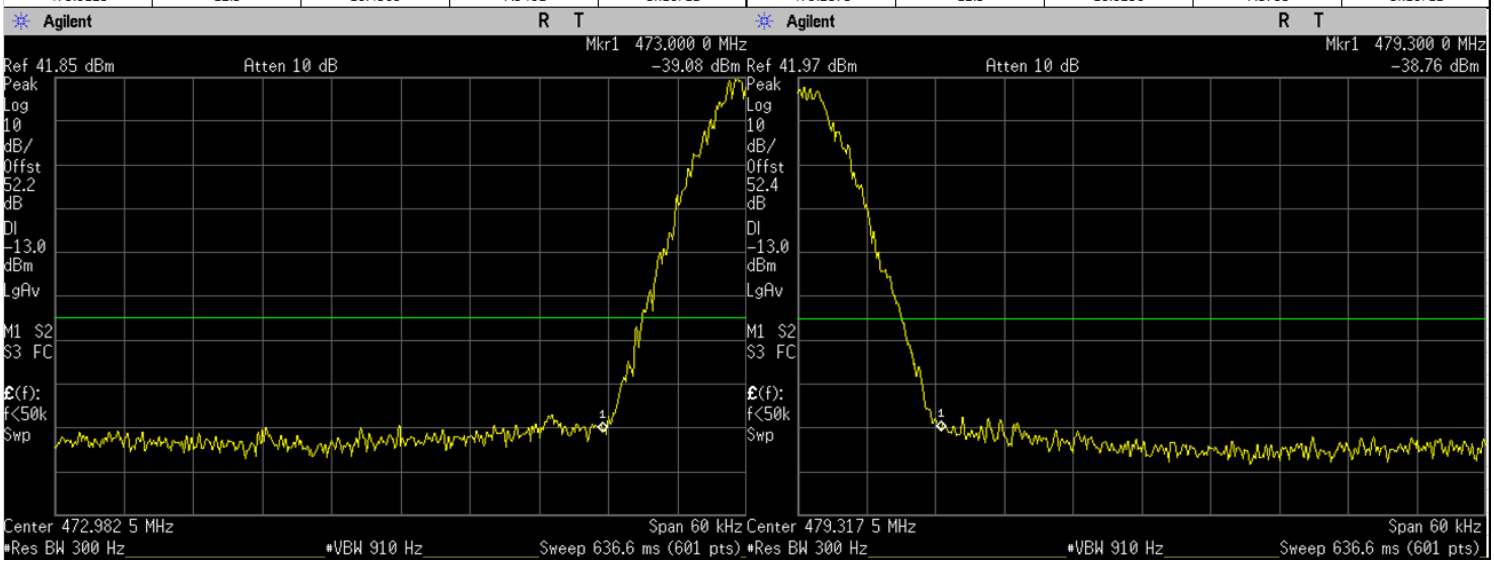
MAX POWER

Modulation	Rules Part
C4FM Data	22.359(b)

Channel Frequency	Channel Spacing	-26 dB Point (kHz)	99% OCB	Emission Designator
473.0125	12.5	10.4563	7.9461	8K10F1E

Modulation	Rules Part
C4FM Data	22.359(b)

Channel Frequency	Channel Spacing	-26 dB Point (kHz)	99% OCB	Emission Designator
479.2875	12.5	10.6256	7.8735	8K10F1E



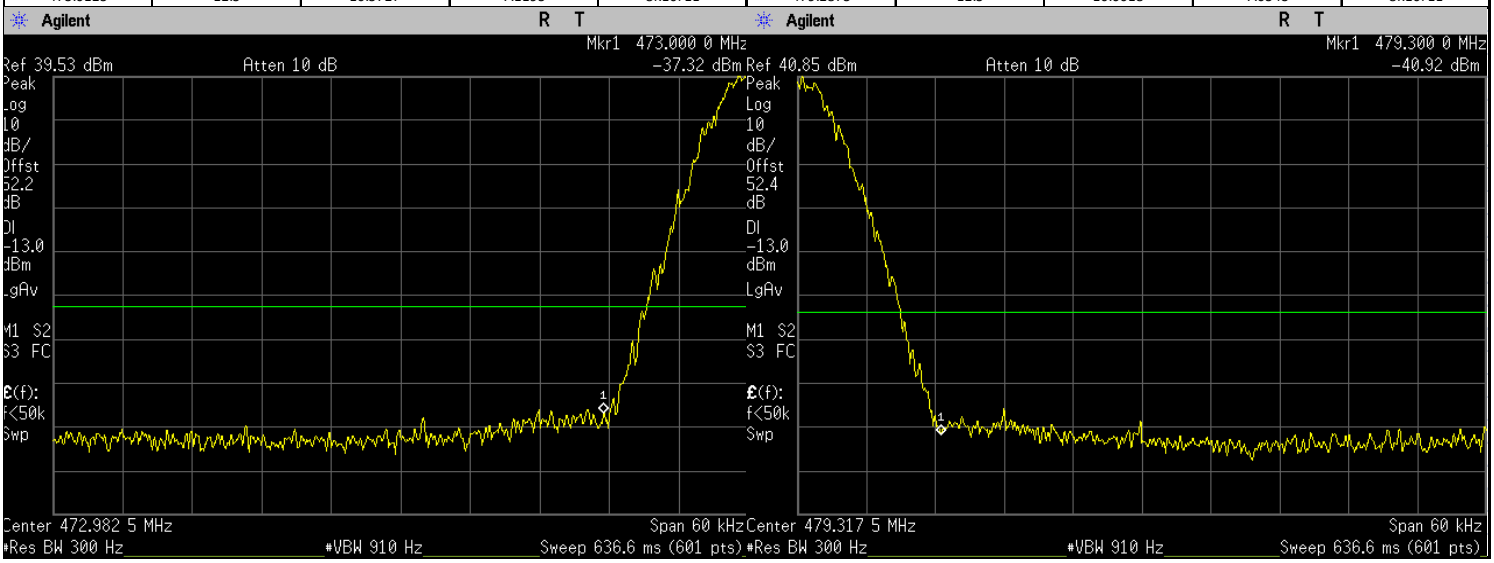
LOW POWER

Modulation	Rules Part
C4FM Data	22.359(b)

Channel Frequency	Channel Spacing	-26 dB Point (kHz)	99% OCB	Emission Designator
473.0125	12.5	10.5727	7.1195	8K10F1E

Modulation	Rules Part
C4FM Data	22.359(b)

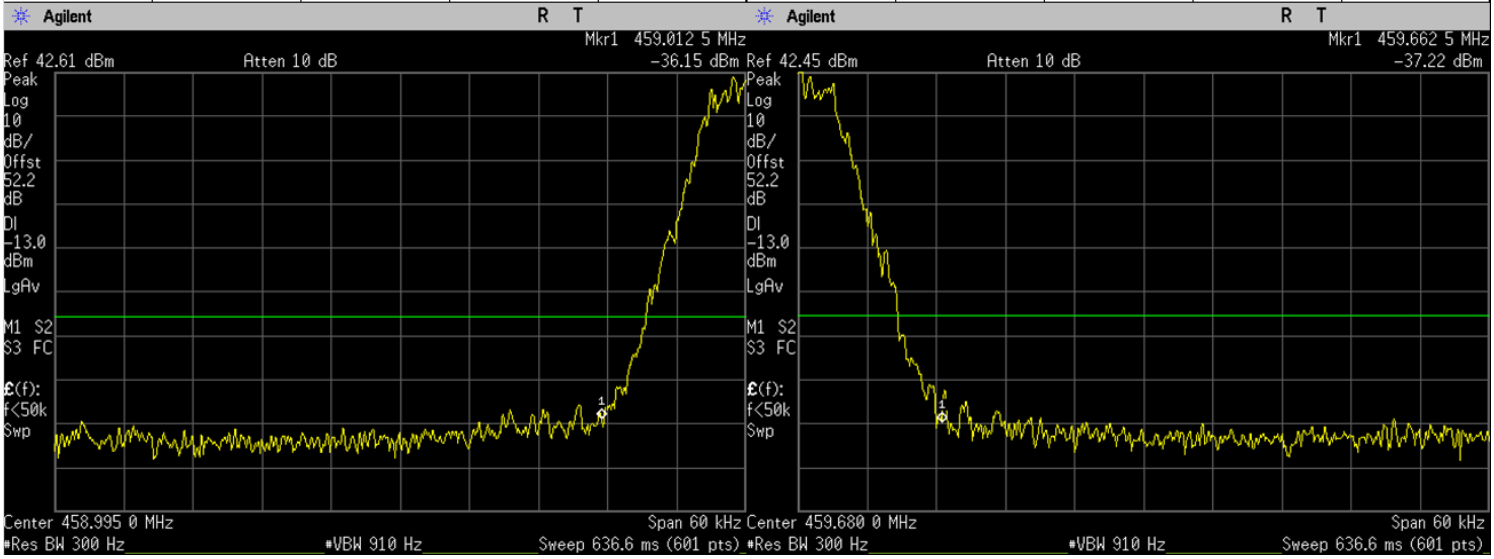
Channel Frequency	Channel Spacing	-26 dB Point (kHz)	99% OCB	Emission Designator
479.2875	12.5	10.6018	7.0543	8K10F1E



MAX POWER

Modulation	Rules Part			
Phase II	22.359(b)			
Channel Frequency	**Channel Spacing**	**-26 dB Point (kHz)**	**99% OCB**	**Emission Designator**
459.0250	12.5	10.6688	7.9808	8K10F1W

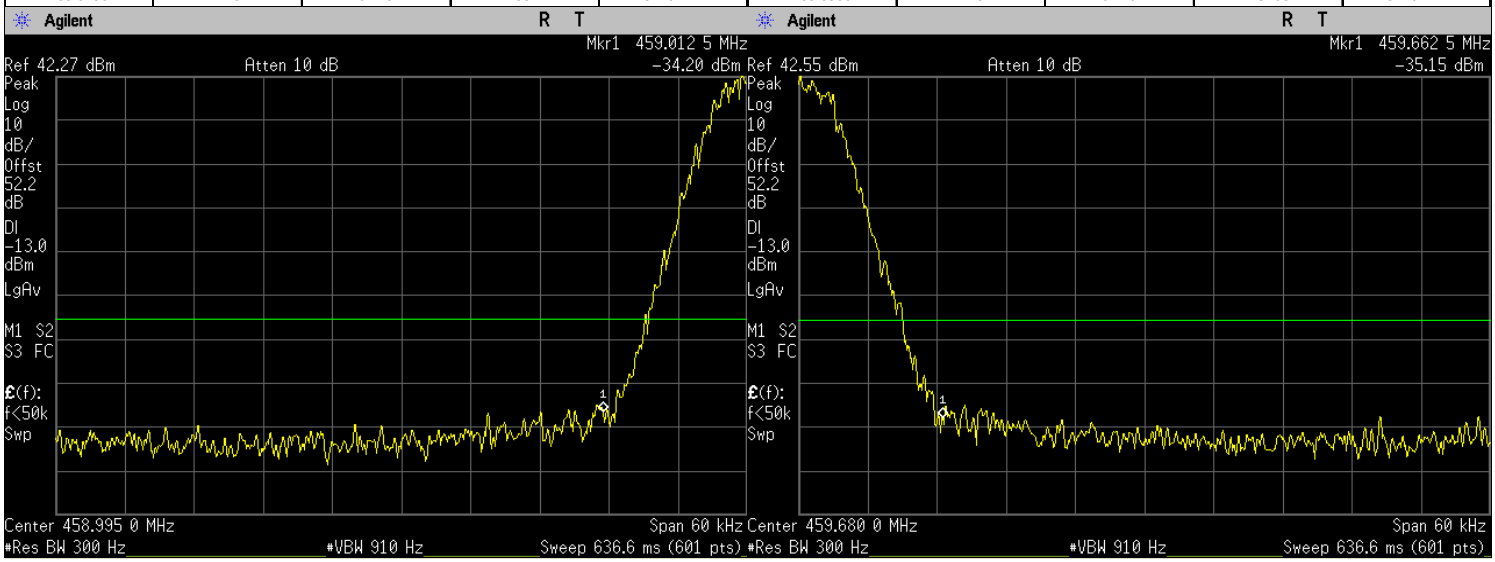
Modulation	Rules Part			
Phase II	22.359(b)			
Channel Frequency	**Channel Spacing**	**-26 dB Point (kHz)**	**99% OCB**	**Emission Designator**
459.6500	12.5	9.6548	7.7421	8K10F1W



LOW POWER

Modulation	Rules Part			
Phase II	22.359(b)			
Channel Frequency	**Channel Spacing**	**-26 dB Point (kHz)**	**99% OCB**	**Emission Designator**
459.0250	12.5	10.2282	7.8821	8K10F1W

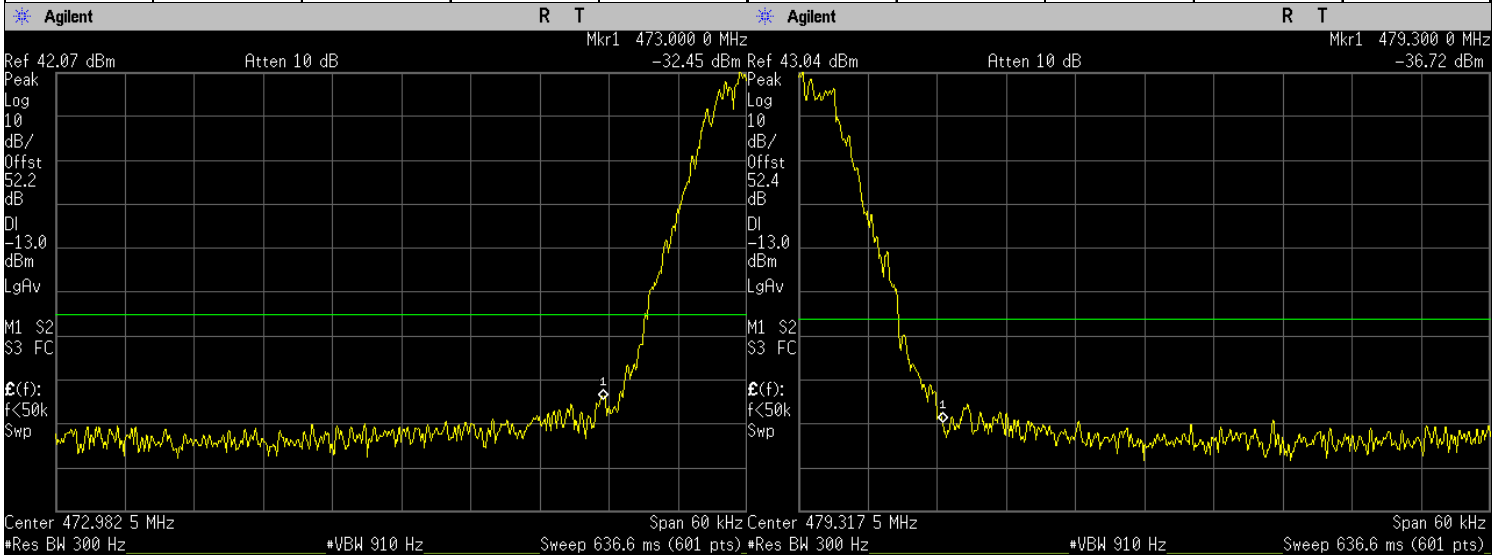
Modulation	Rules Part			
Phase II	22.359(b)			
Channel Frequency	**Channel Spacing**	**-26 dB Point (kHz)**	**99% OCB**	**Emission Designator**
459.6500	12.5	10.1162	7.9208	8K10F1W



MAX POWER

Modulation		Rules Part		
Phase II		22.359(b)		
Channel Frequency	Channel Spacing	-26 dB Point (kHz)	99% OCB	Emission Designator
473.0125	12.5	9.6122	7.4178	8K10F1W

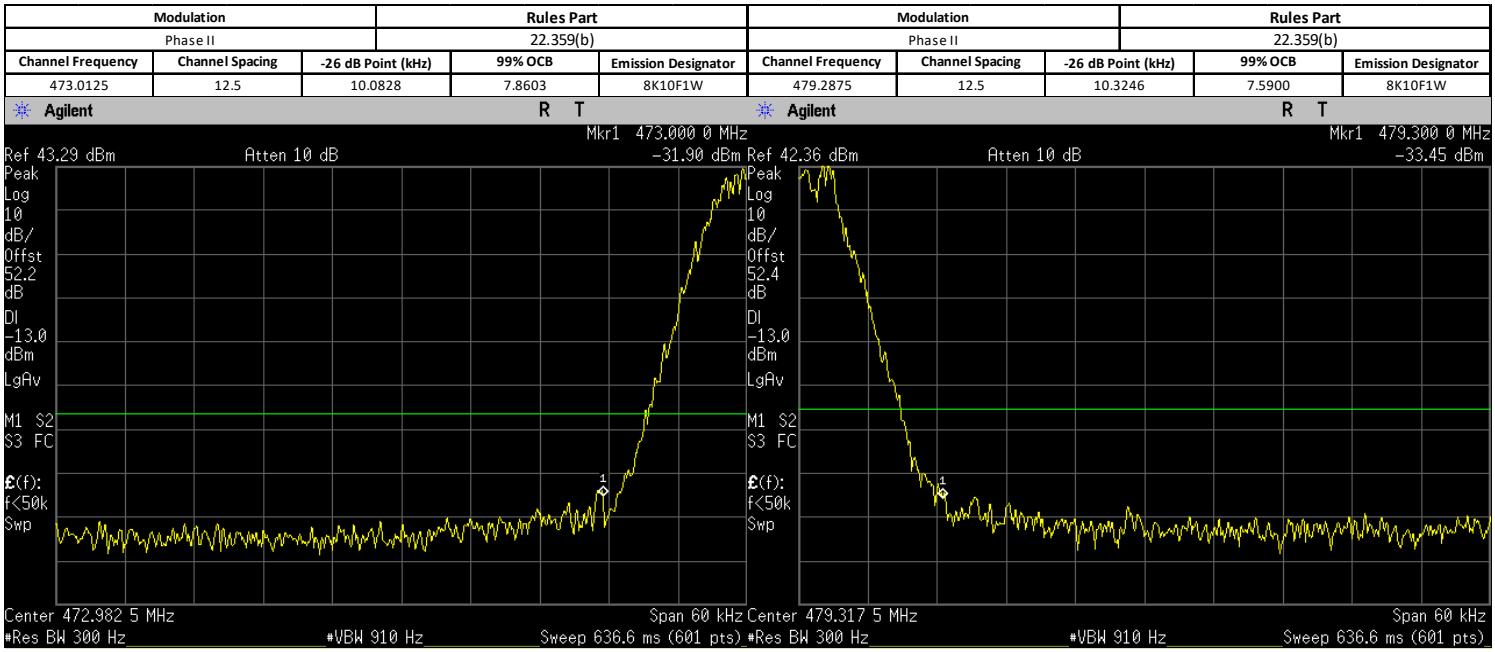
Modulation		Rules Part		
Phase II		22.359(b)		
Channel Frequency	Channel Spacing	-26 dB Point (kHz)	99% OCB	Emission Designator
479.2875	12.5	9.8051	7.6812	8K10F1W



LOW POWER

Modulation		Rules Part		
Phase II		22.359(b)		
Channel Frequency	Channel Spacing	-26 dB Point (kHz)	99% OCB	Emission Designator
473.0125	12.5	10.0828	7.8603	8K10F1W

Modulation		Rules Part		
Phase II		22.359(b)		
Channel Frequency	Channel Spacing	-26 dB Point (kHz)	99% OCB	Emission Designator
479.2875	12.5	10.3246	7.5900	8K10F1W

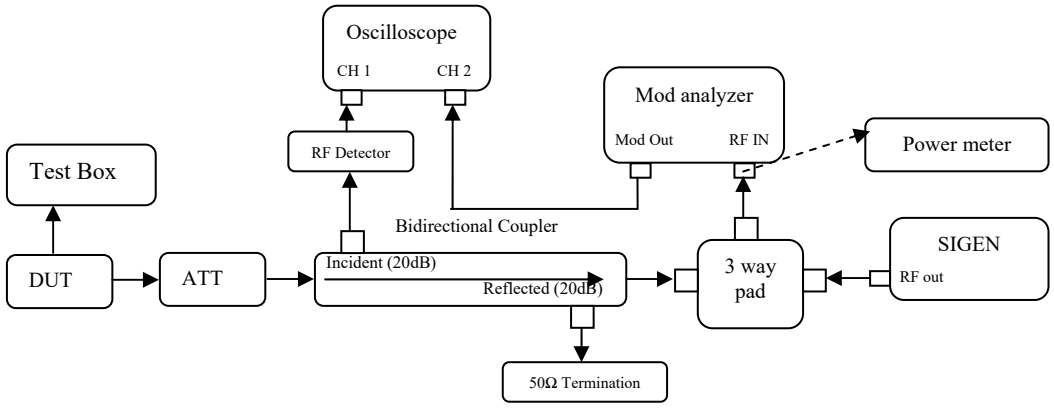


6.7.5. Test Limit

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

6.8. Transient Frequency Behavior

6.8.1. Test Setup

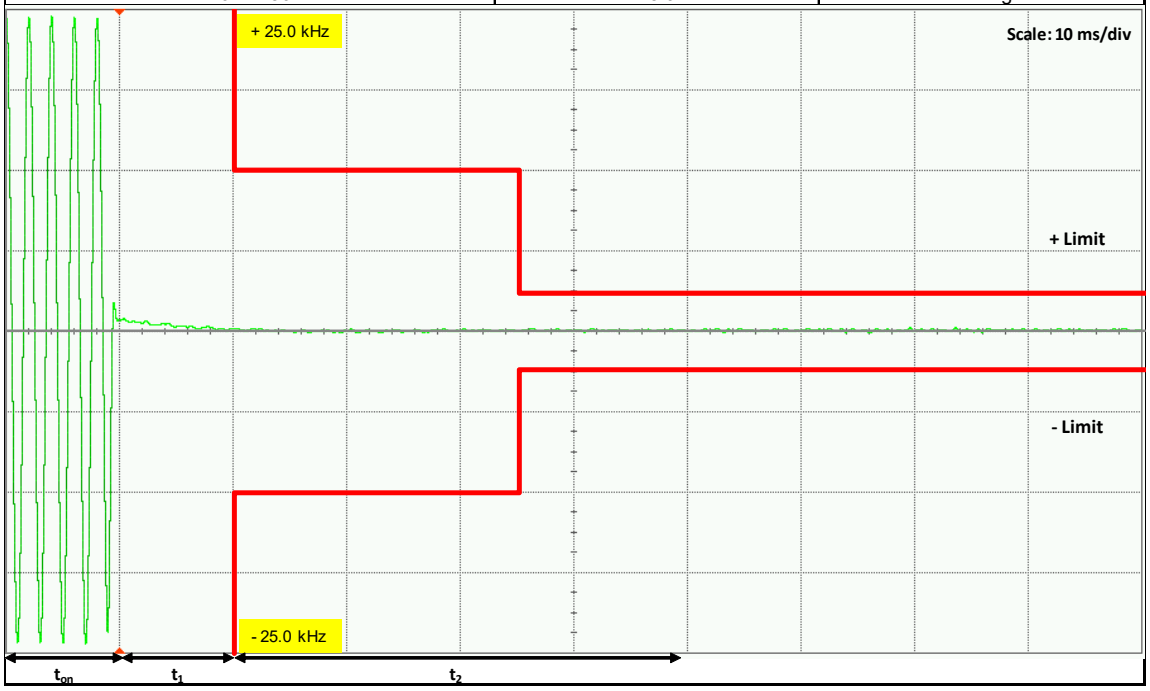


1) Connect the setup as figure above.
2) Path loss for the measurement included.
3) Set on Sigen with the assigned center frequency, internal 1 kHz FM tone.
   FM Deviation: Analog 25kHz Channel Spacing = 25 kHz
   Analog 12.5 kHz Channel Spacing = 12.5 kHz
   C4FM = 12.5 kHz
4) Turn on 50 kHz high pass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

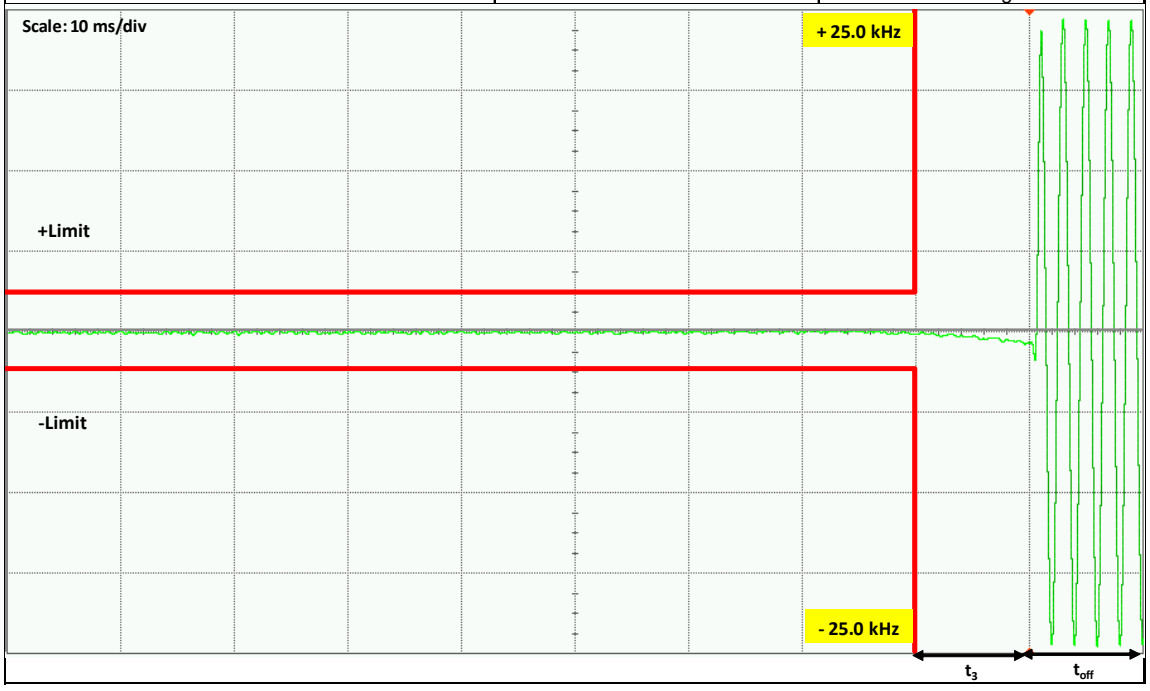
6.8.2. Test Result

Not for FCC review

Switch On Condition t_{on}, t_1 and t_2		
Channel Frequency (MHz)	**Channel Spacing (kHz)**	**Mode**
467.7750	25.0	Analog

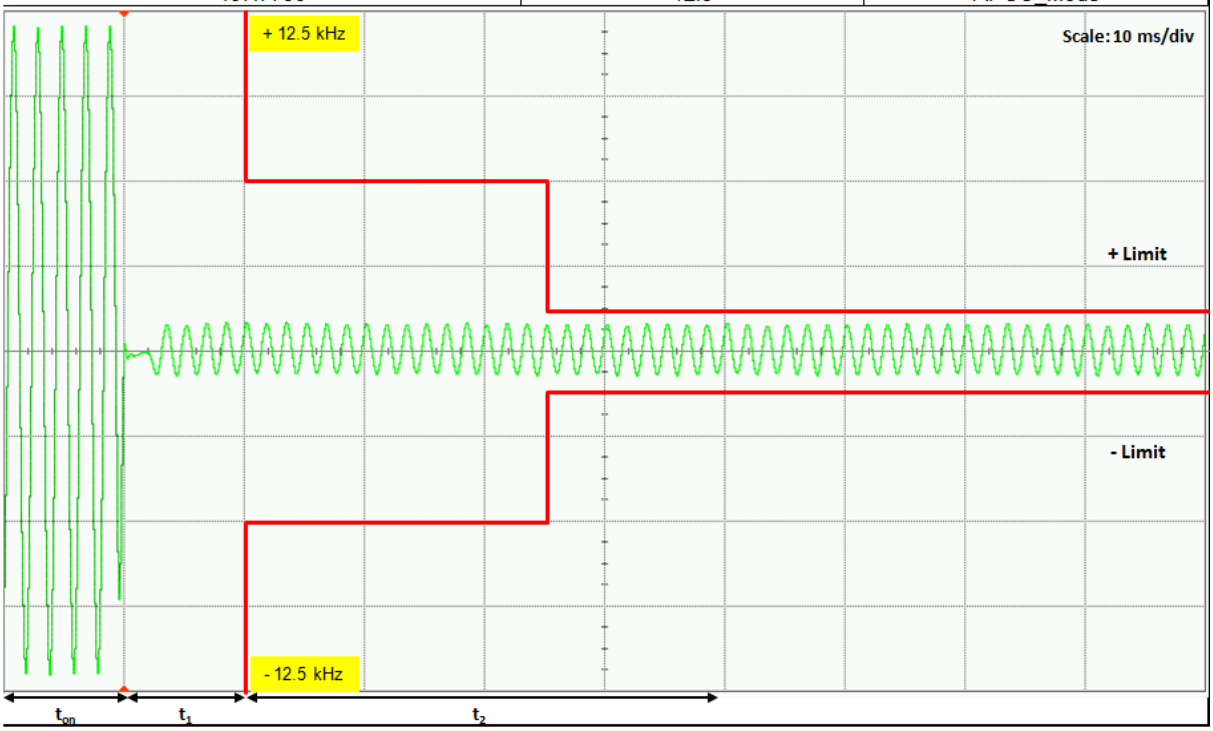


Switch Off Condition t_3 t_{off}		
Channel Frequency (MHz)	**Channel Spacing (kHz)**	**Mode**
467.7750	25.0	Analog



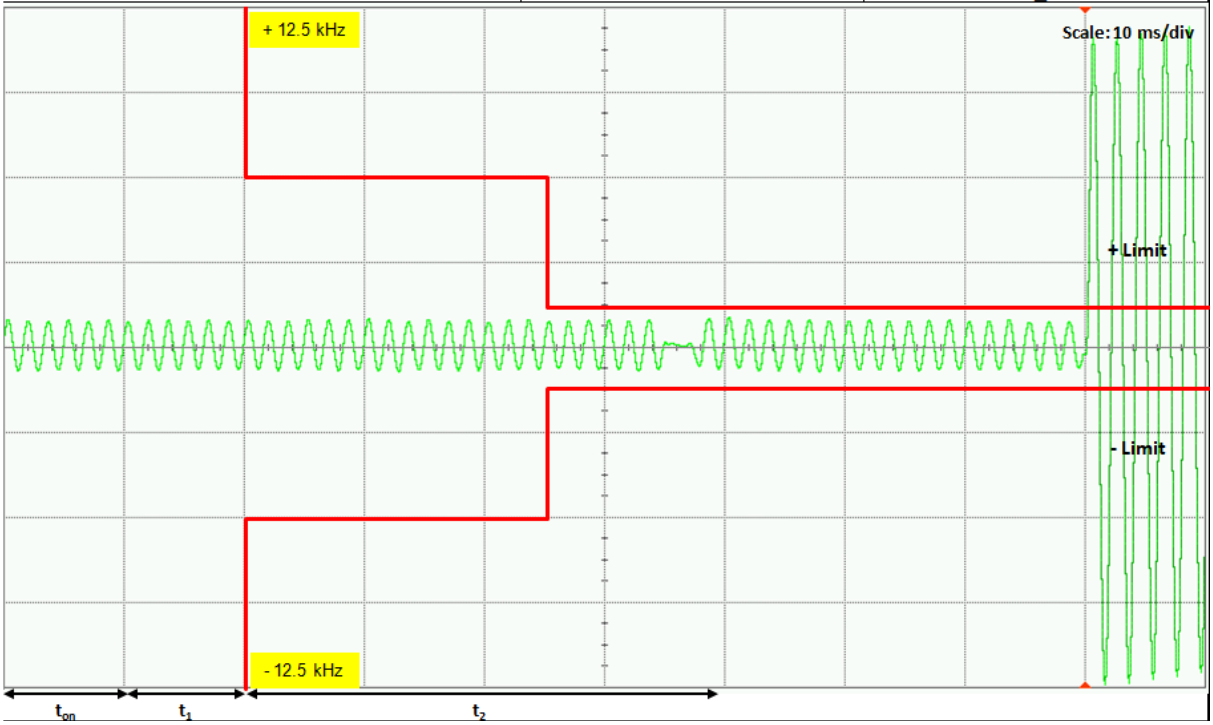
Switch On Condition t_{on}, t_1 and t_2

Channel Frequency (MHz)	Channel Spacing (kHz)	Mode
467.7750	12.5	APCO_Mode



Switch Off Condition t_3 t_{off}

Channel Frequency (MHz)	Channel Spacing (kHz)	Mode
467.7750	12.5	APCO_Mode



6.8.3. Test Limit

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

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

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

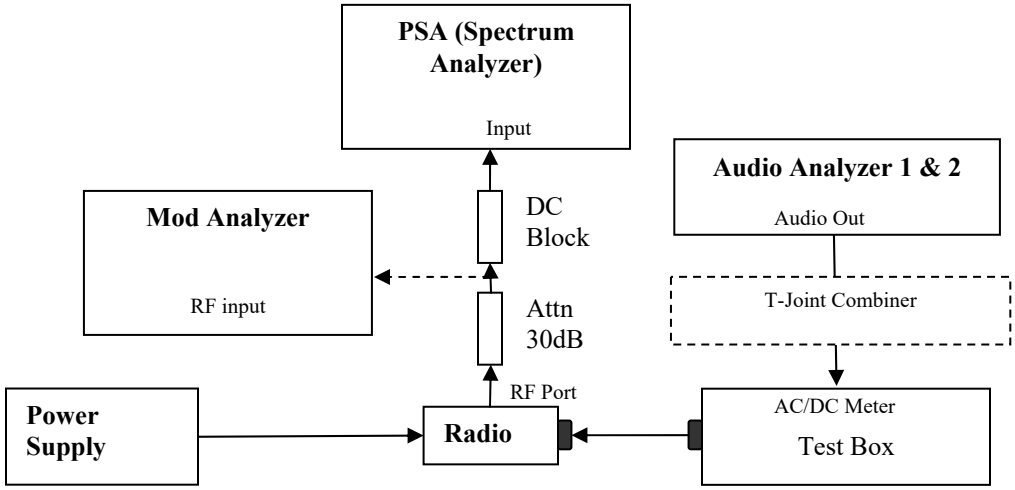
[2] During the time from the end of t_2 to the beginning of t_3, the frequency difference must not exceed the limits specified in §90.213.

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

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

6.9. Adjacent Channel Power

6.9.1. Test Setup (Analog)

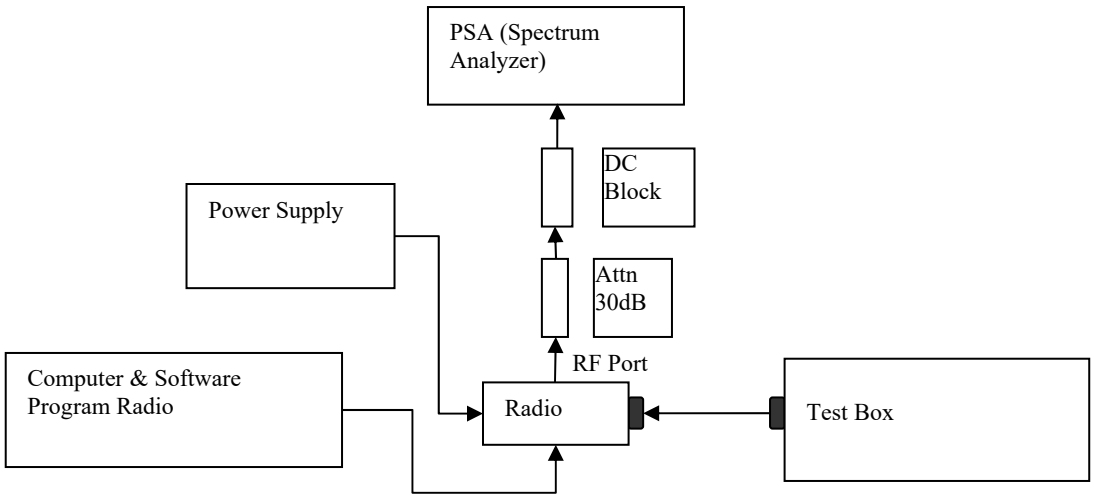


1) The DUT transmitter output port was connected to modulation analyzer.
2) Transmit the radio and turn on 1st audio analyzer with audio frequency 650Hz, 50% rated deviation, and record the amplitude value as AmpT1.
3) Turn off Audio analyzer 1 and turn on audio analyzer 2, set the audio frequency to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

6.9.2. Test Result

Not Applicable

6.9.3. Test Setup (Digital)



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

6.9.4. Test Result

Not Applicable

6.9.5. Test Limit

12.5 kHz Mobile Transmitter ACP Requirements

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

25 kHz Mobile Transmitter ACP Requirements

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

12.5 kHz Base Transmitter ACP Requirements

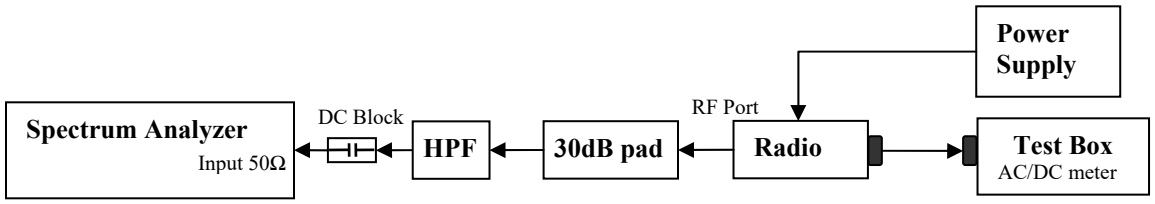
Offset from center frequency (kHz)	Measurement bandwidth (kHz)	Maximum ACP (dBc)
9.375	6.25	−40
15.625	6.25	−60
21.875	6.25	−60
37.5	25	−60
62.5	25	−65
87.5	25	−65
150	100	−65
250	100	−65
350.00	100	−65
>400 kHz to 12 MHz	30 (s)	−80
12 MHz to paired receive band	30 (s)	−80
In the paired receive band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

25 kHz Base Transmitter ACP Requirements

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

6.10. Conducted Spurious Emission

6.10.1. Test Setup

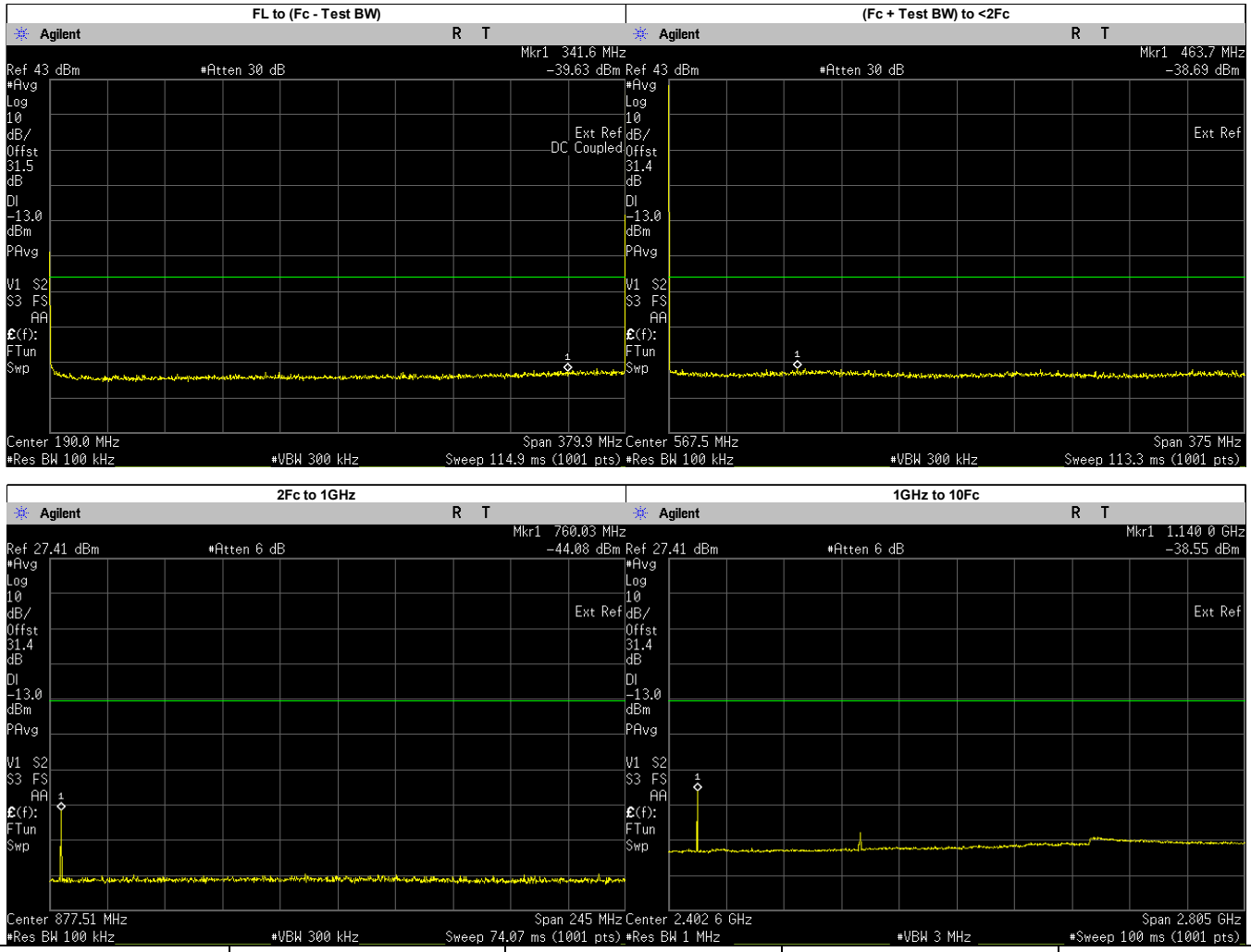


1) The DUT transmitter output port was connected to Spectrum Analyzer with above setup.
2) Program and set radio to operate in desire test frequency and mode. (Analog / digital modulation form).
3) Path loss for the measurement included.
4) Set the PSA Resolution Bandwidth as per rules part.
5) Set the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

6.10.2. Test Result (Analog)

Analog: 380.0125. MHz, 25.kHz Channel Spacing, Max. Power

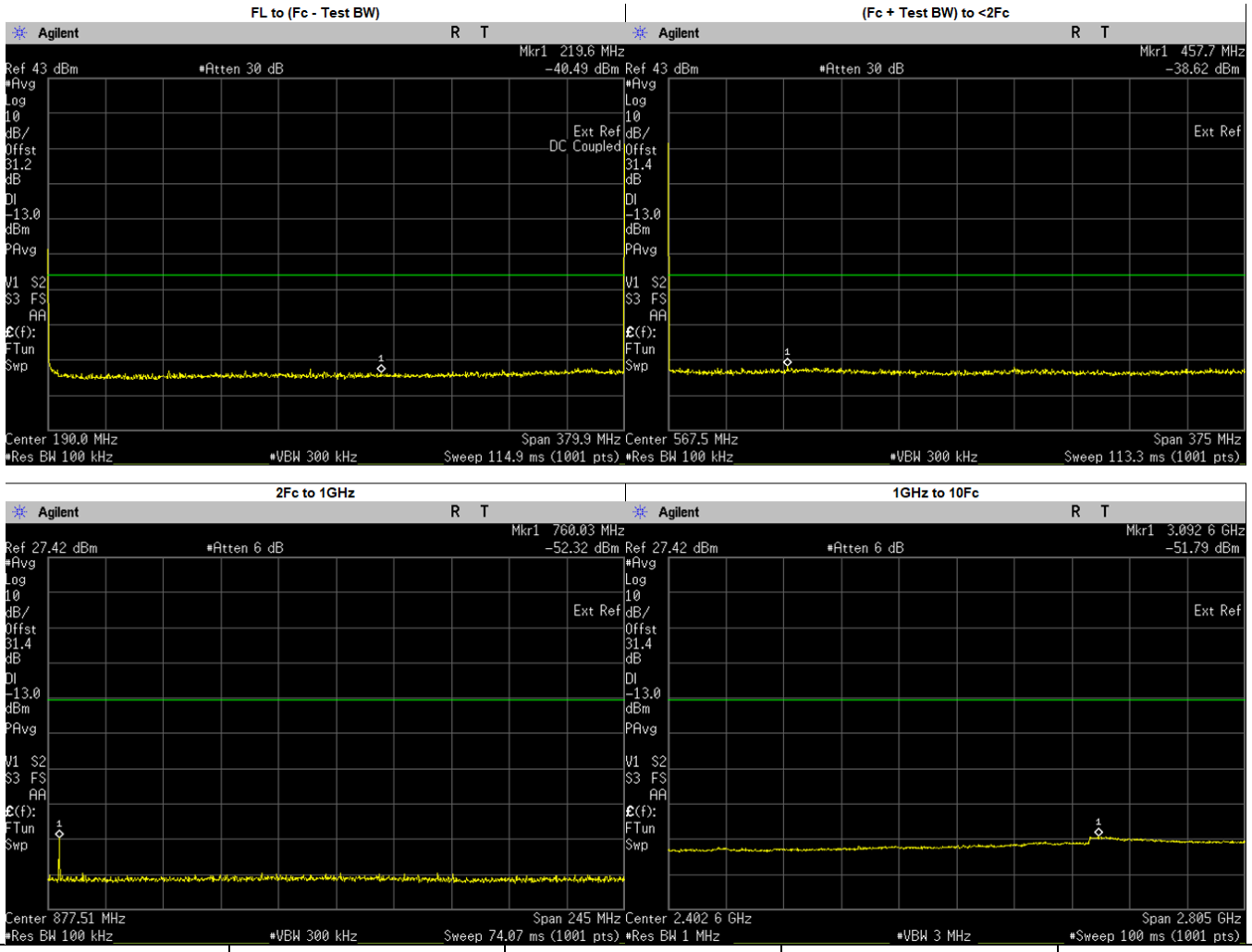
Not for FCC review



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	341.6000	-39.6310	-13.00	PASS
(Fc + Test BW) to <2Fc	463.6835	-38.6900	-13.00	PASS
2Fc to 1GHz	760.0250	-44.0800	-13.00	PASS
1GHz to 10Fc	1140.0370	-38.5500	-13.00	PASS
	1520.0500	-55.4476	-13.00	PASS
	1900.0620	-55.0977	-13.00	PASS
	2280.0750	-54.9663	-13.00	PASS
	2660.0880	-54.0810	-13.00	PASS
	3040.1000	-53.7563	-13.00	PASS
	3420.1130	-53.0855	-13.00	PASS
	3800.1250	-53.2811	-13.00	PASS

<u>Analog:</u> 380.0125. MHz, 25.kHz Channel Spacing, Low. Power

Not for FCC review

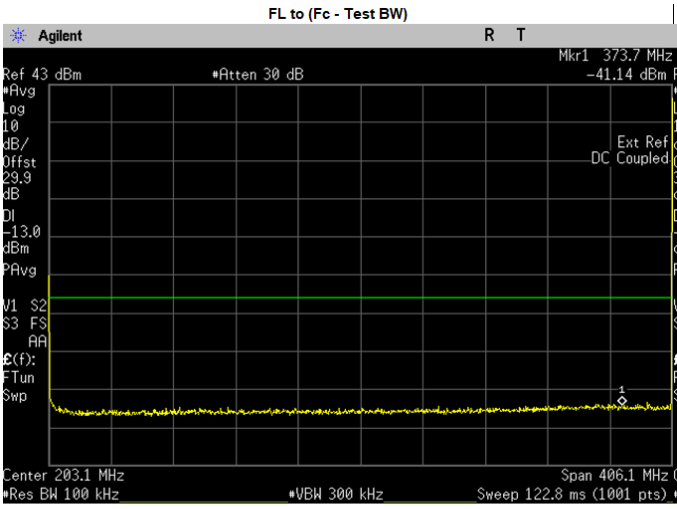


Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	219.6000	-40.4930	-13.00	PASS
(Fc + Test BW) to <2Fc	457.6842	-38.6200	-13.00	PASS
2Fc to 1GHz	760.0250	-54.3200	-13.00	PASS
1GHz to 10Fc	3092.6230	-51.7900	-13.00	PASS
	1140.0370	-55.6142	-13.00	PASS
	1520.0500	-55.3330	-13.00	PASS
	1900.0620	-55.2864	-13.00	PASS
	2280.0750	-55.0550	-13.00	PASS
	2660.0880	-54.2960	-13.00	PASS
	3040.1000	-53.5739	-13.00	PASS
	3420.1130	-52.9860	-13.00	PASS
	3800.1250	-53.1376	-13.00	PASS

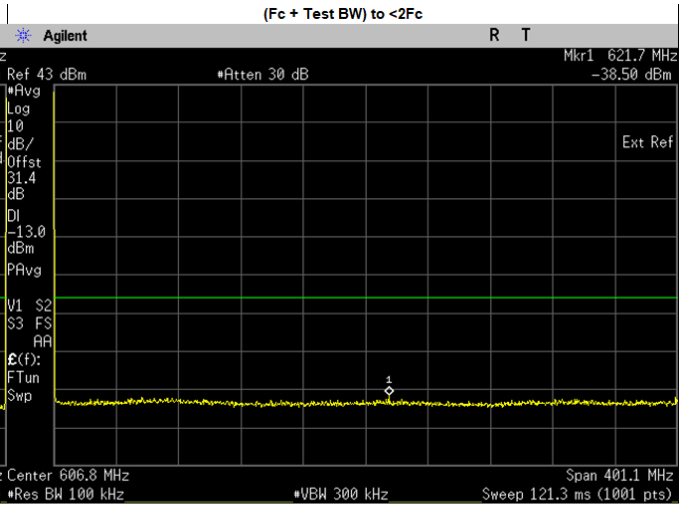
Analog: 406.2. MHz, 25.kHz Channel Spacing, Max. Power

Not for FCC review

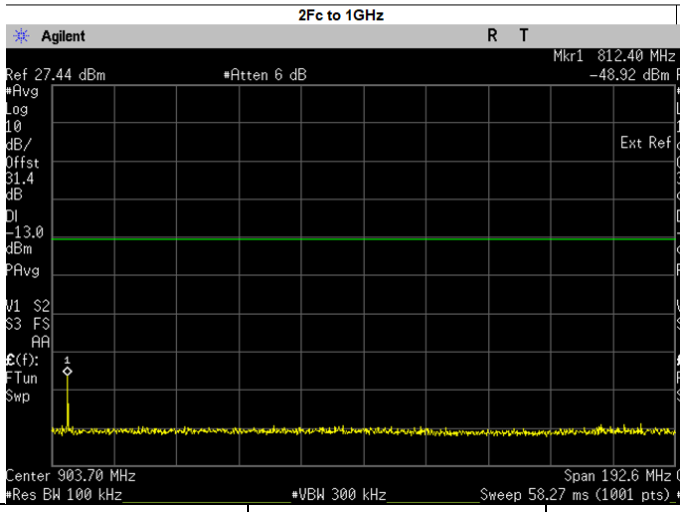
FL to (Fc - Test BW)



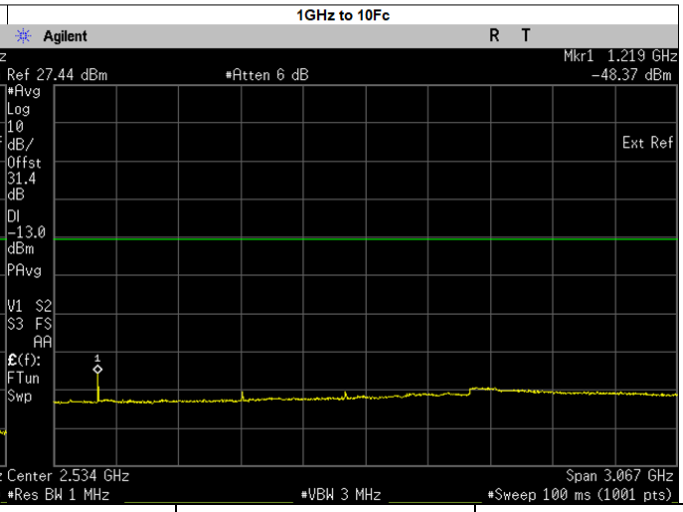
(Fc + Test BW) to <2Fc



2Fc to 1GHz



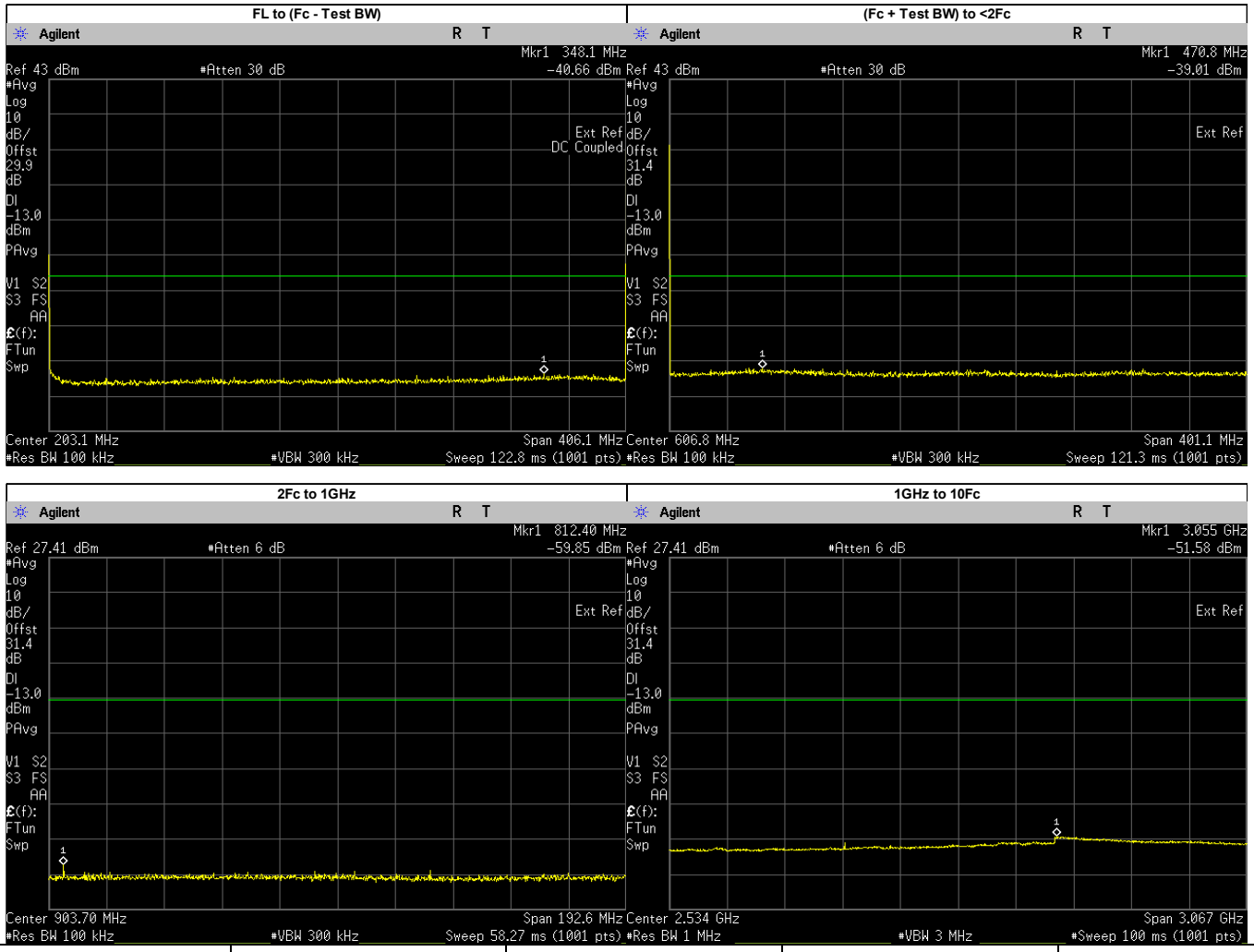
1GHz to 10Fc



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	373.7000	-41.1400	-13.00	PASS
(Fc + Test BW) to <2Fc	621.6702	-38.5000	-13.00	PASS
2Fc to 1GHz	812.4000	-48.9200	-13.00	PASS
1GHz to 10Fc	1218.6000	-48.3700	-13.00	PASS
	1624.8000	-55.3296	-13.00	PASS
	2031.0000	-54.9845	-13.00	PASS
	2437.2000	-53.4527	-13.00	PASS
	2843.4000	-53.6585	-13.00	PASS
	3249.6000	-52.7871	-13.00	PASS
	3655.8000	-53.4154	-13.00	PASS
	4062.0000	-53.9365	-13.00	PASS

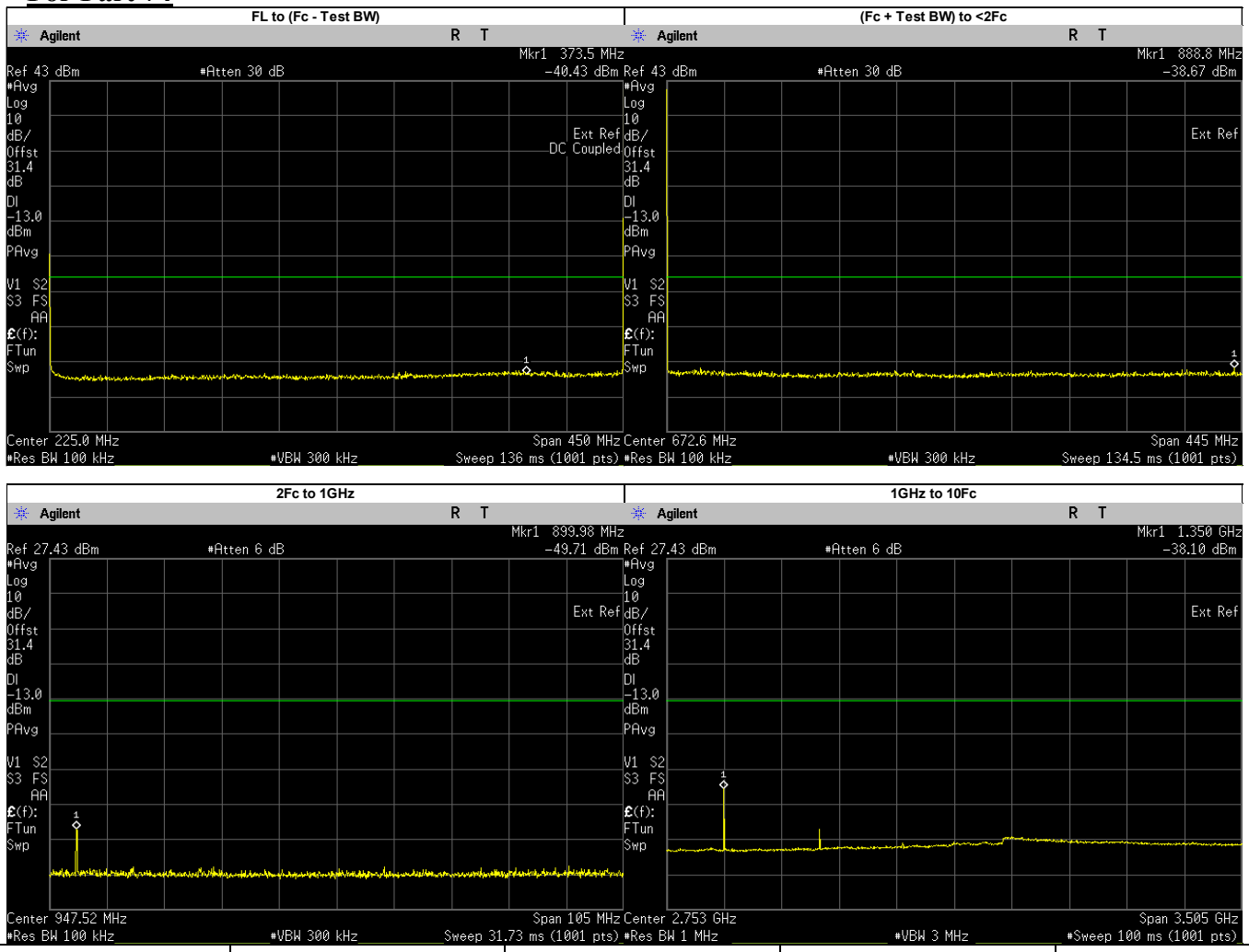
Analog: 406.2. MHz, 25.kHz Channel Spacing, Low. Power

Not for FCC review



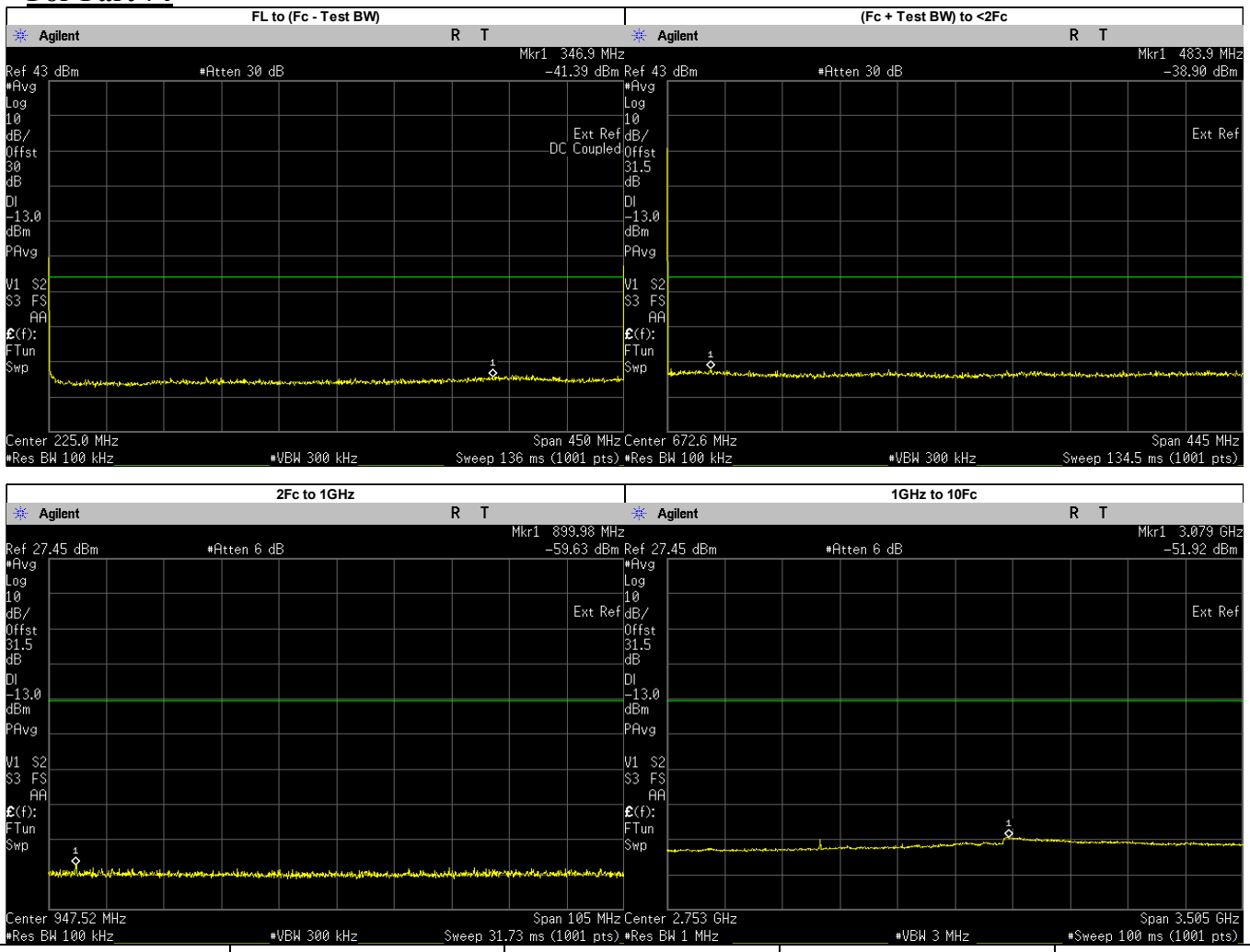
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	348.1000	-40.6610	-13.00	PASS
(Fc + Test BW) to <2Fc	470.8399	-39.0100	-13.00	PASS
2Fc to 1GHz	812.4000	-59.8500	-13.00	PASS
1GHz to 10Fc	3054.8900	-51.5800	-13.00	PASS
	1218.6000	-55.6572	-13.00	PASS
	1624.8000	-55.6570	-13.00	PASS
	2031.0000	-54.8688	-13.00	PASS
	2437.2000	-54.8004	-13.00	PASS
	2843.4000	-53.5434	-13.00	PASS
	3249.6000	-52.6485	-13.00	PASS
	3655.8000	-53.4591	-13.00	PASS
	4062.0000	-53.8405	-13.00	PASS

Analog: 450.025. MHz, 25.kHz Channel Spacing, Max. Power For Part 74



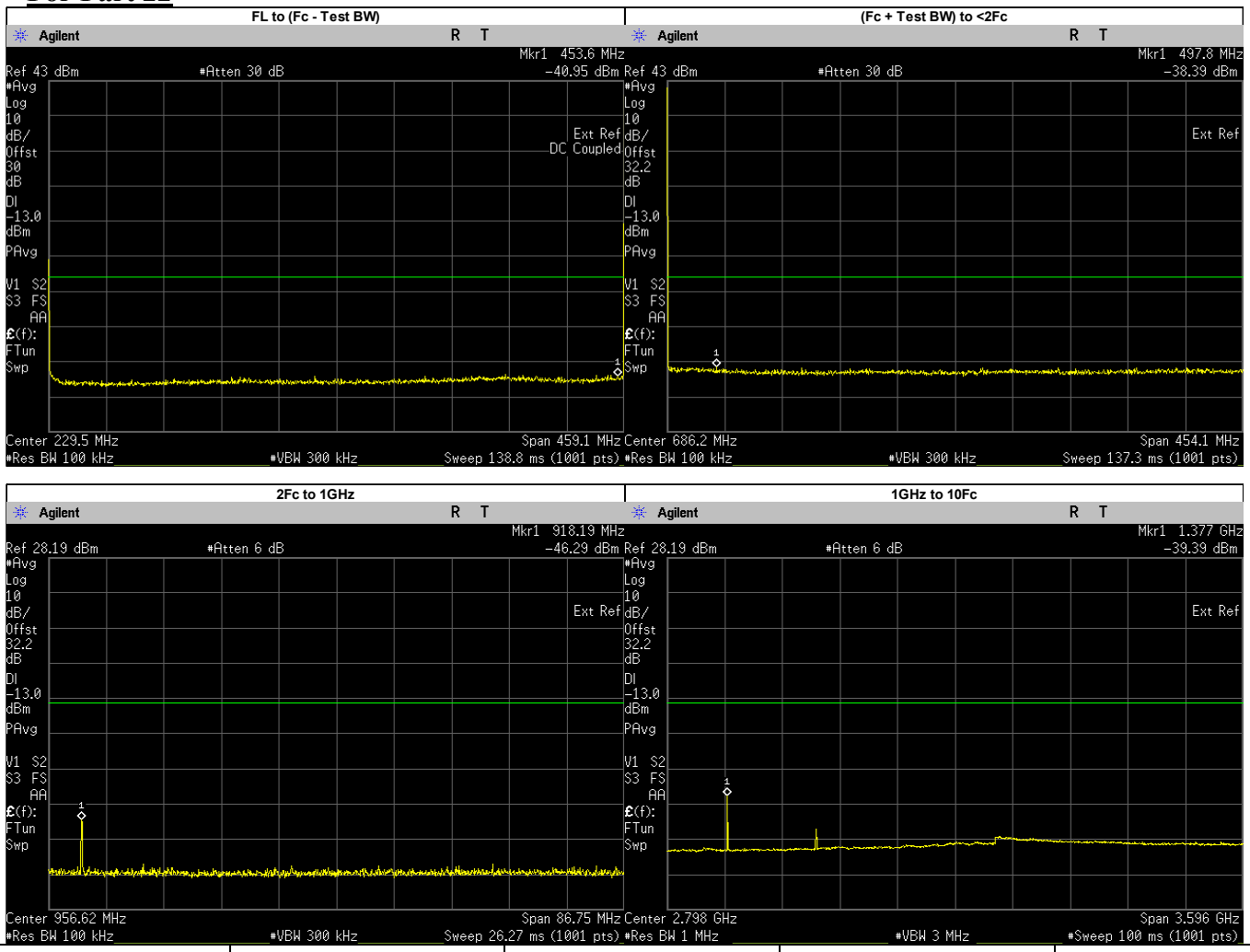
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	373.5000	-40.4300	-13.00	PASS
(Fc + Test BW) to <2Fc	888.8204	-38.6700	-13.00	PASS
2Fc to 1GHz	899.9827	-49.7100	-13.00	PASS
	900.0500	-49.9533	-13.00	PASS
1GHz to 10Fc	1932.3970	-49.5400	-13.00	PASS
	1350.0750	-40.3501	-13.00	PASS
	1800.1000	-55.2669	-13.00	PASS
	2250.1250	-54.7976	-13.00	PASS
	2700.1500	-54.1366	-13.00	PASS
	3150.1750	-52.3613	-13.00	PASS
	3600.2000	-53.4398	-13.00	PASS
	4050.2250	-53.7513	-13.00	PASS
	4500.2500	-53.8740	-13.00	PASS

Analog: 450.025. MHz, 25.kHz Channel Spacing, Low. Power For Part 74



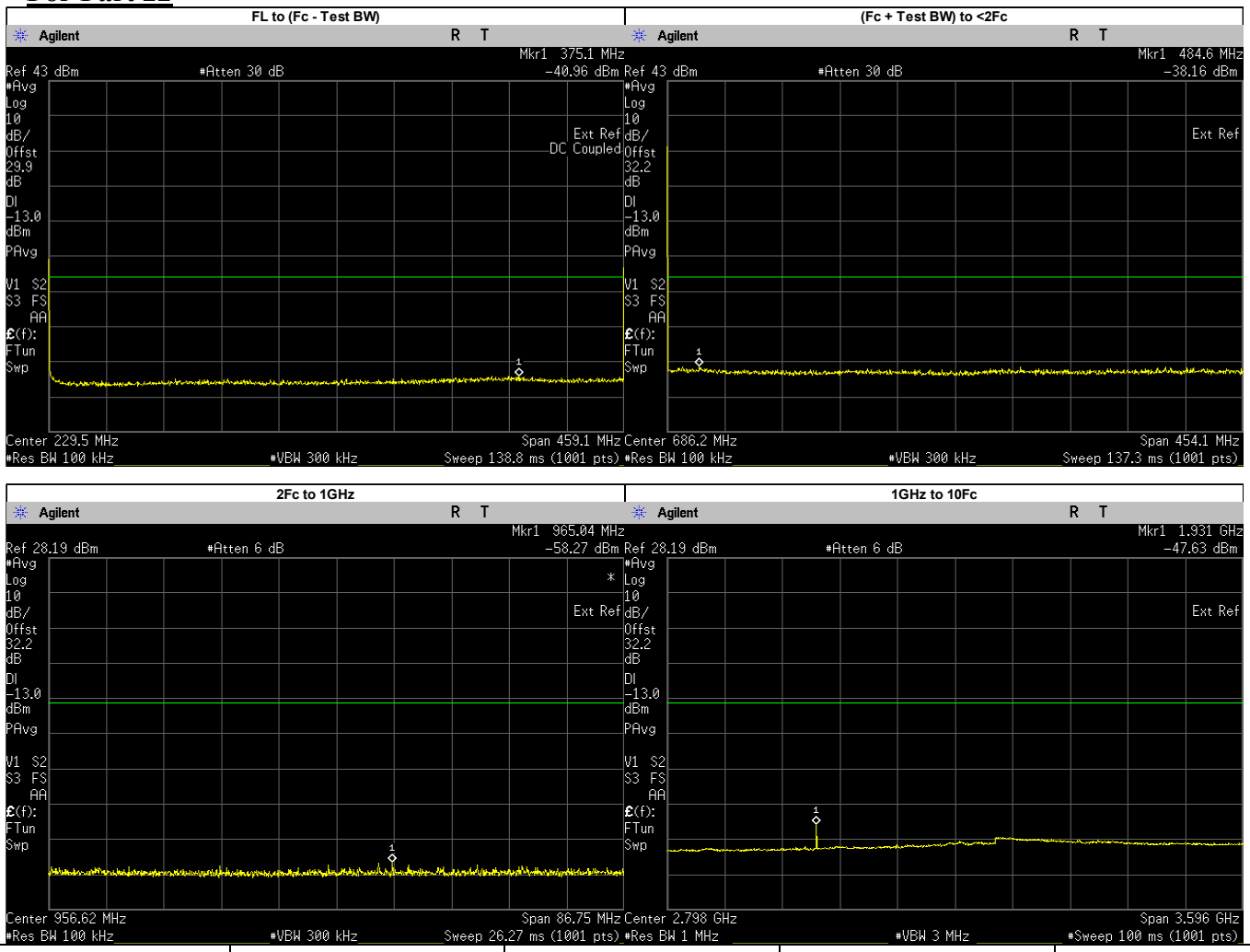
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	346.9000	-41.3900	-13.00	PASS
(Fc + Test BW) to <2Fc	483.8994	-38.9000	-13.00	PASS
2Fc to 1GHz	899.9827	-59.6300	-13.00	PASS
	900.0500	-59.7039	-13.00	PASS
1GHz to 10Fc	3078.6130	-51.9200	-13.00	PASS
	1350.0750	-55.5588	-13.00	PASS
	1800.1000	-55.3268	-13.00	PASS
	2250.1250	-54.7501	-13.00	PASS
	2700.1500	-54.2190	-13.00	PASS
	3150.1750	-52.2328	-13.00	PASS
	3600.2000	-53.4051	-13.00	PASS
	4050.2250	-53.5554	-13.00	PASS
	4500.2500	-53.9708	-13.00	PASS

Analog: 459.125. MHz, 25.kHz Channel Spacing, Max. Power For Part 22



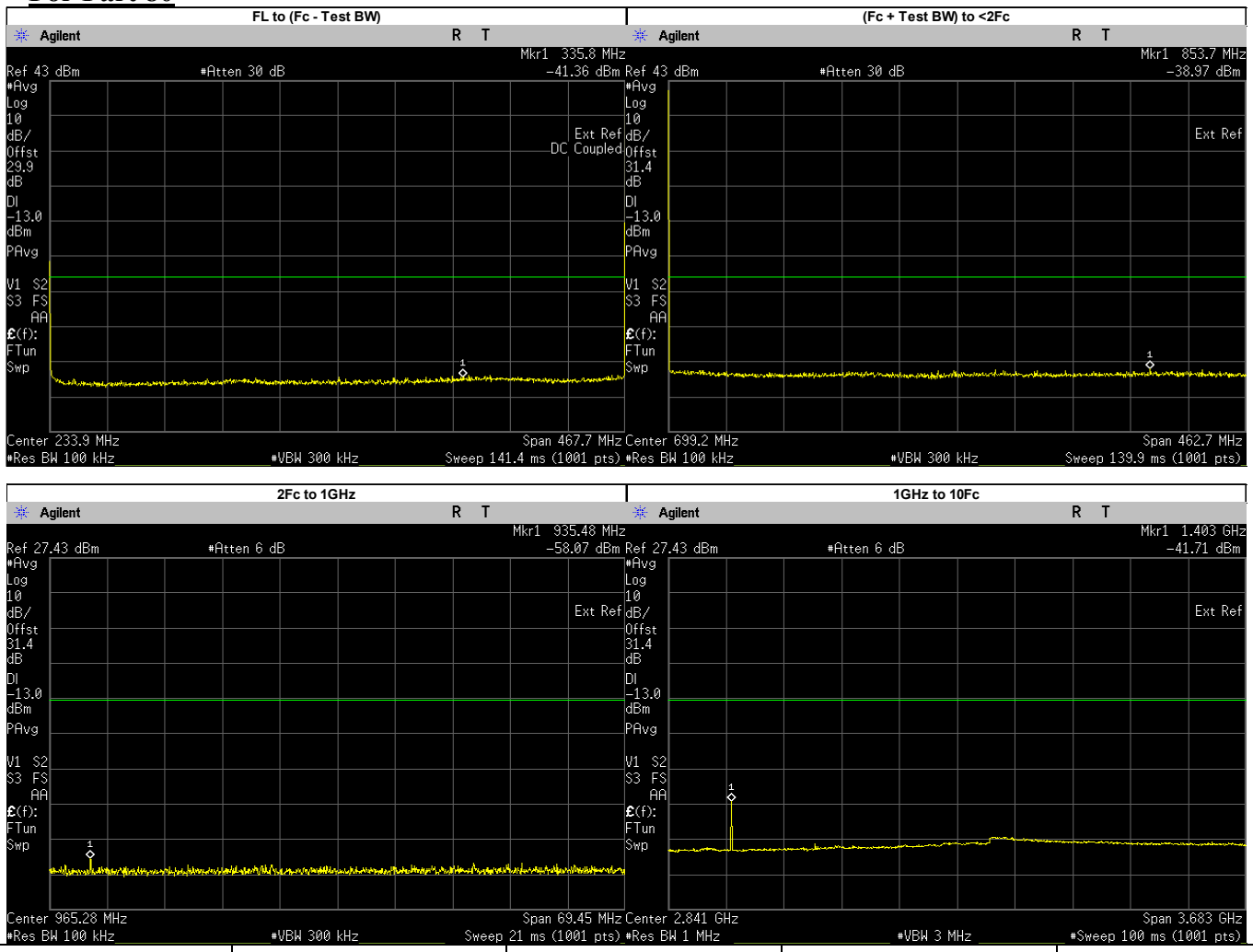
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	453.6000	-40.9490	-13.00	PASS
(Fc + Test BW) to <2Fc	497.7776	-38.3900	-13.00	PASS
2Fc to 1GHz	918.1947	-46.2900	-13.00	PASS
	918.2500	-46.7892	-13.00	PASS
1GHz to 10Fc	1377.3750	-39.3900	-13.00	PASS
	1836.5000	-54.4481	-13.00	PASS
	2295.6250	-53.8589	-13.00	PASS
	2754.7500	-53.2058	-13.00	PASS
	3213.8750	-52.0206	-13.00	PASS
	3673.0000	-52.3961	-13.00	PASS
	4132.1250	-52.9997	-13.00	PASS
	4591.2500	-53.1726	-13.00	PASS

Analog: 459.125. MHz, 25.kHz Channel Spacing, Low. Power For Part 22



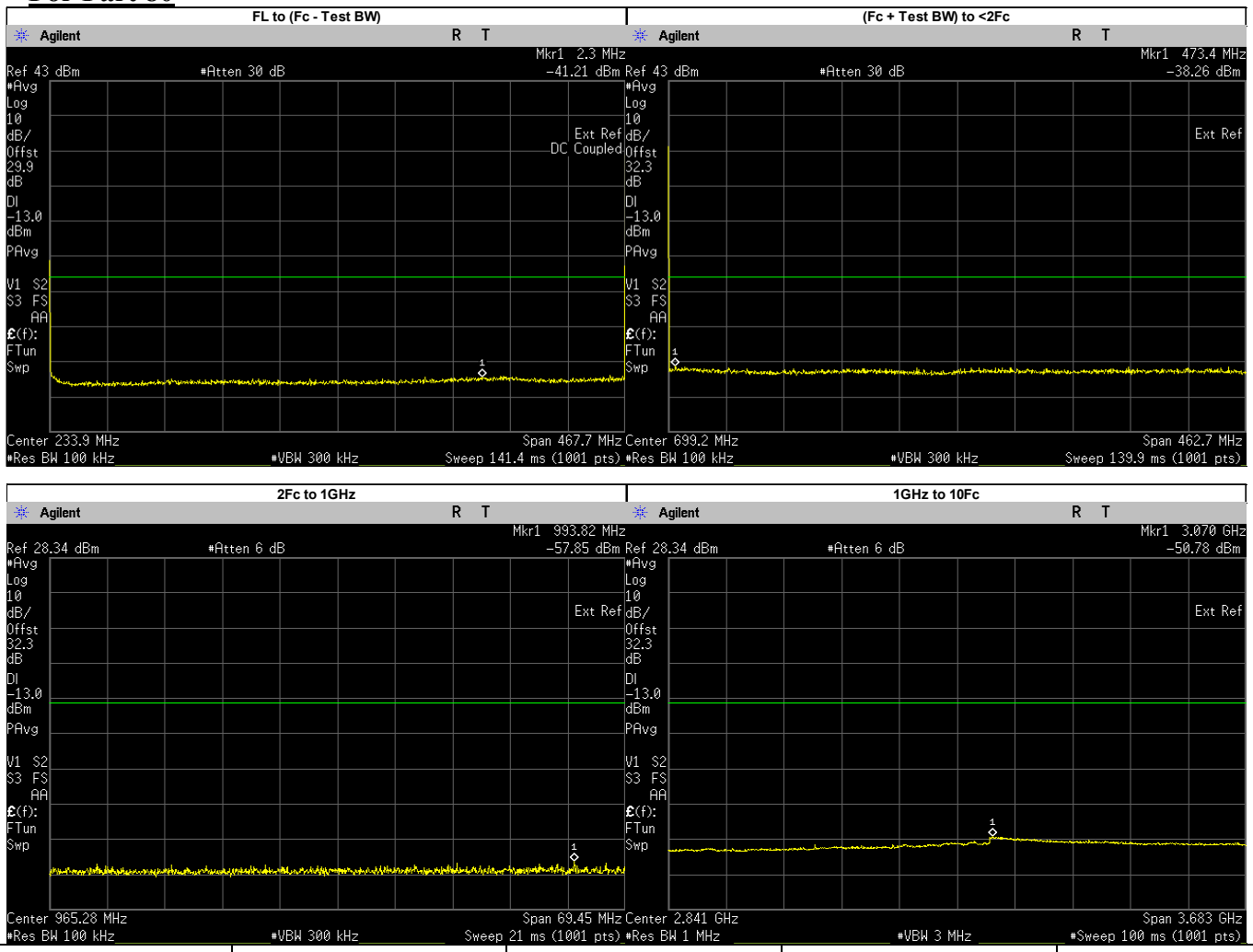
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	375.1000	-40.9570	-13.00	PASS
(Fc + Test BW) to <2Fc	484.6096	-38.1600	-13.00	PASS
2Fc to 1GHz	965.0398	-58.2700	-13.00	PASS
	918.2500	-60.9266	-13.00	PASS
1GHz to 10Fc	1931.4290	-47.6300	-13.00	PASS
	1377.3750	-54.8090	-13.00	PASS
	1836.5000	-54.5743	-13.00	PASS
	2295.6250	-54.0523	-13.00	PASS
	2754.7500	-53.0023	-13.00	PASS
	3213.8750	-51.9334	-13.00	PASS
	3673.0000	-52.5421	-13.00	PASS
	4132.1250	-53.1795	-13.00	PASS
	4591.2500	-53.1521	-13.00	PASS

Analog: 467.775. MHz, 25.kHz Channel Spacing, Max. Power For Part 80



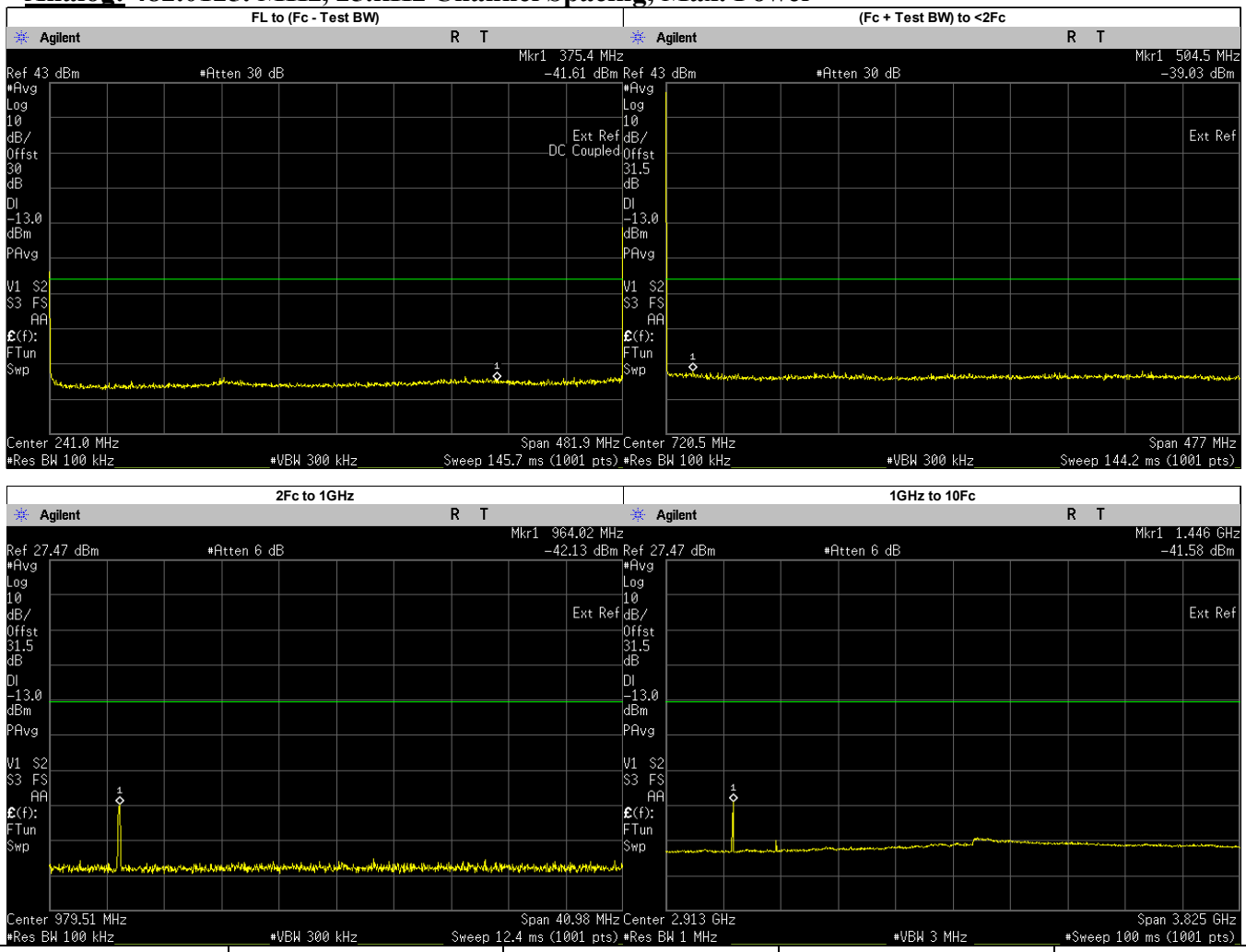
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	335.8000	-41.3620	-13.00	PASS
(Fc + Test BW) to <2Fc	853.7388	-38.9700	-13.00	PASS
2Fc to 1GHz	935.4810	-58.0700	-13.00	PASS
	935.5500	-58.2072	-13.00	PASS
1GHz to 10Fc	1403.3250	-41.7100	-13.00	PASS
	1871.1000	-55.4851	-13.00	PASS
	2338.8750	-54.6785	-13.00	PASS
	2806.6500	-53.8510	-13.00	PASS
	3274.4250	-52.6518	-13.00	PASS
	3742.2000	-53.3236	-13.00	PASS
	4209.9750	-53.6970	-13.00	PASS
	4677.7500	-54.1529	-13.00	PASS

Analog: 467.775. MHz, 25.kHz Channel Spacing, Low. Power For Part 80



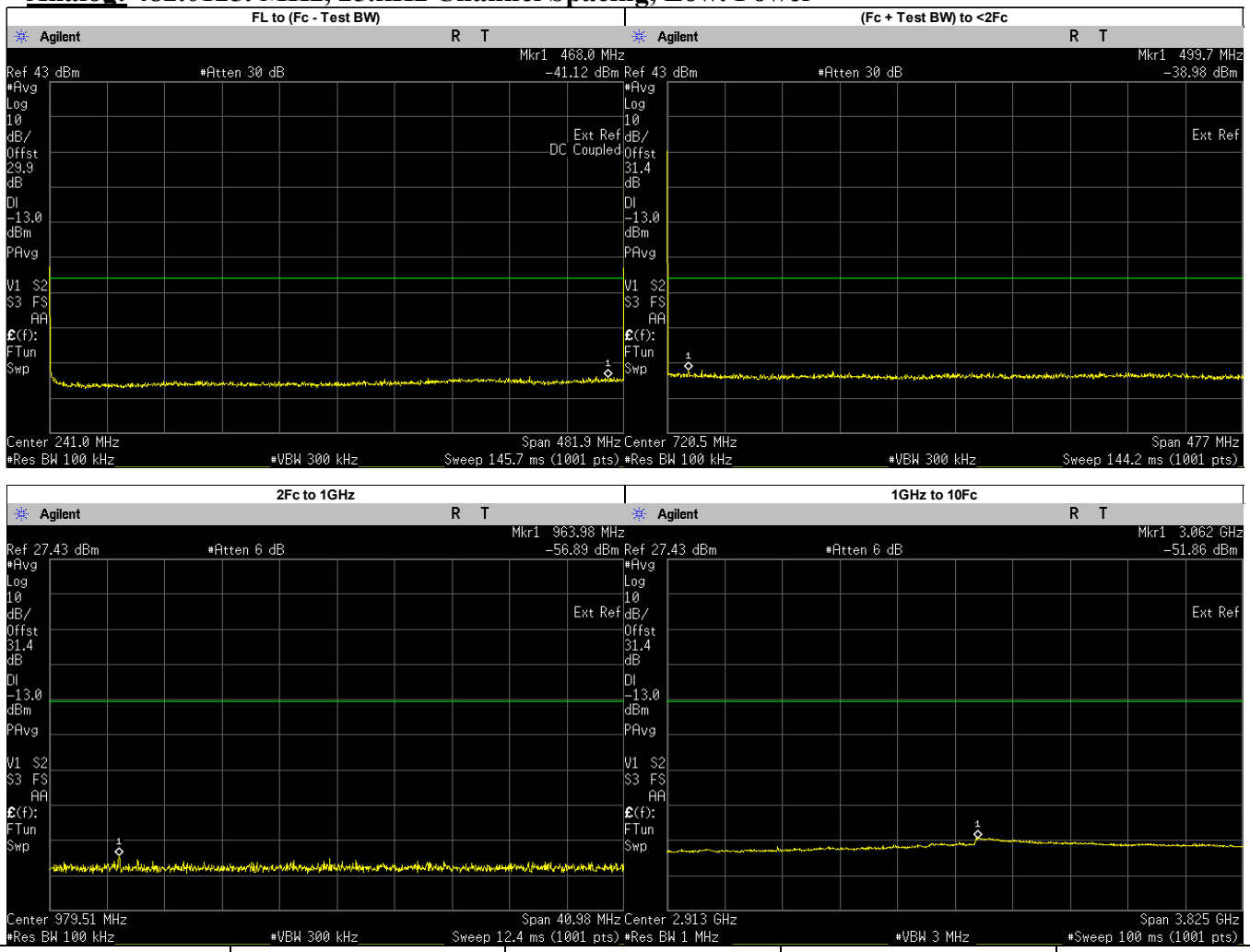
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	351.7000	-41.2120	-13.00	PASS
(Fc + Test BW) to <2Fc	473.3844	-38.2600	-13.00	PASS
2Fc to 1GHz	993.8189	-57.8500	-13.00	PASS
	935.5500	-60.2135	-13.00	PASS
1GHz to 10Fc	3069.7060	-50.7800	-13.00	PASS
	1403.3250	-54.8866	-13.00	PASS
	1871.1000	-54.4042	-13.00	PASS
	2338.8750	-53.8811	-13.00	PASS
	2806.6500	-52.7046	-13.00	PASS
	3274.4250	-51.7606	-13.00	PASS
	3742.2000	-52.5105	-13.00	PASS
	4209.9750	-52.7215	-13.00	PASS
	4677.7500	-53.1002	-13.00	PASS

Analog: 482.0125. MHz, 25.kHz Channel Spacing, Max. Power



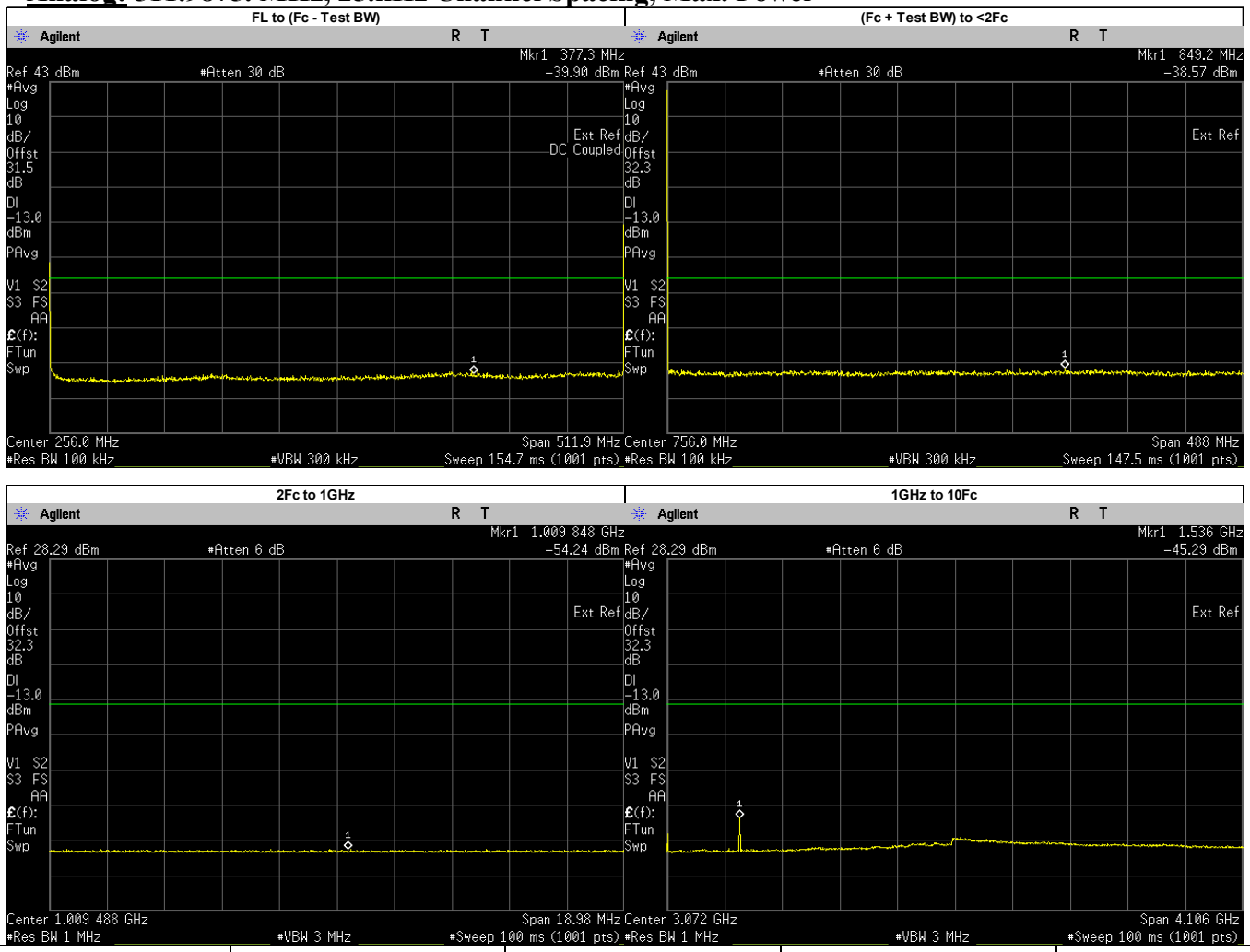
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	375.4000	-41.6140	-13.00	PASS
(Fc + Test BW) to <2Fc	504.4862	-39.0300	-13.00	PASS
2Fc to 1GHz	964.0250	-42.1300	-13.00	PASS
1GHz to 10Fc	1446.0000	-41.5800	-13.00	PASS
	1446.0370	-43.8517	-13.00	PASS
	1928.0500	-55.2111	-13.00	PASS
	2410.0620	-54.6578	-13.00	PASS
	2892.0750	-53.9617	-13.00	PASS
	3374.0880	-52.9732	-13.00	PASS
	3856.1000	-53.4600	-13.00	PASS
	4338.1130	-53.7259	-13.00	PASS
	4820.1250	-54.3197	-13.00	PASS

Analog: 482.0125. MHz, 25.kHz Channel Spacing, Low. Power



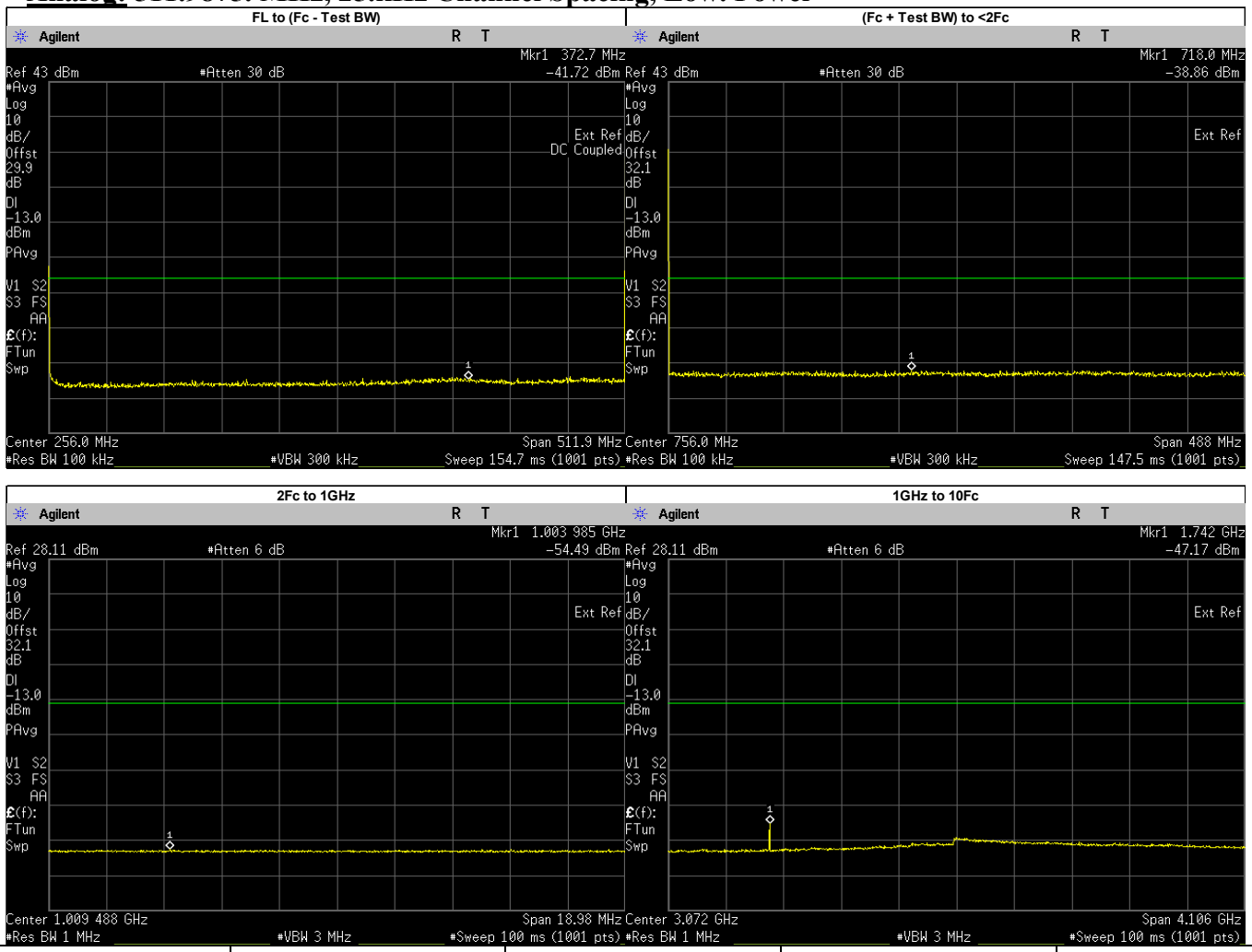
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	468.0000	-41.1210	-13.00	PASS
(Fc + Test BW) to <2Fc	499.7167	-38.9800	-13.00	PASS
2Fc to 1GHz	963.9830	-56.8900	-13.00	PASS
	964.0250	-58.2250	-13.00	PASS
1GHz to 10Fc	3061.7420	-51.8600	-13.00	PASS
	1446.0370	-55.5614	-13.00	PASS
	1928.0500	-55.2600	-13.00	PASS
	2410.0620	-54.8821	-13.00	PASS
	2892.0750	-54.0058	-13.00	PASS
	3374.0880	-52.8874	-13.00	PASS
	3856.1000	-53.4989	-13.00	PASS
	4338.1130	-54.0036	-13.00	PASS
	4820.1250	-54.2622	-13.00	PASS

Analog: 511.9875. MHz, 25.kHz Channel Spacing, Max. Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	377.3000	-39.9020	-13.00	PASS
(Fc + Test BW) to <2Fc	849.2217	-38.5700	-13.00	PASS
2Fc to 1GHz	1009.8480	-54.2400	-13.00	PASS
1GHz to 10Fc	1535.9630	-45.2900	-13.00	PASS
	1023.9750	-50.7257	-13.00	PASS
	2047.9500	-54.0473	-13.00	PASS
	2559.9370	-53.6657	-13.00	PASS
	3071.9250	-50.9780	-13.00	PASS
	3583.9120	-52.3750	-13.00	PASS
	4095.9000	-52.9998	-13.00	PASS
	4607.8870	-53.0688	-13.00	PASS
	5119.8750	-53.5312	-13.00	PASS

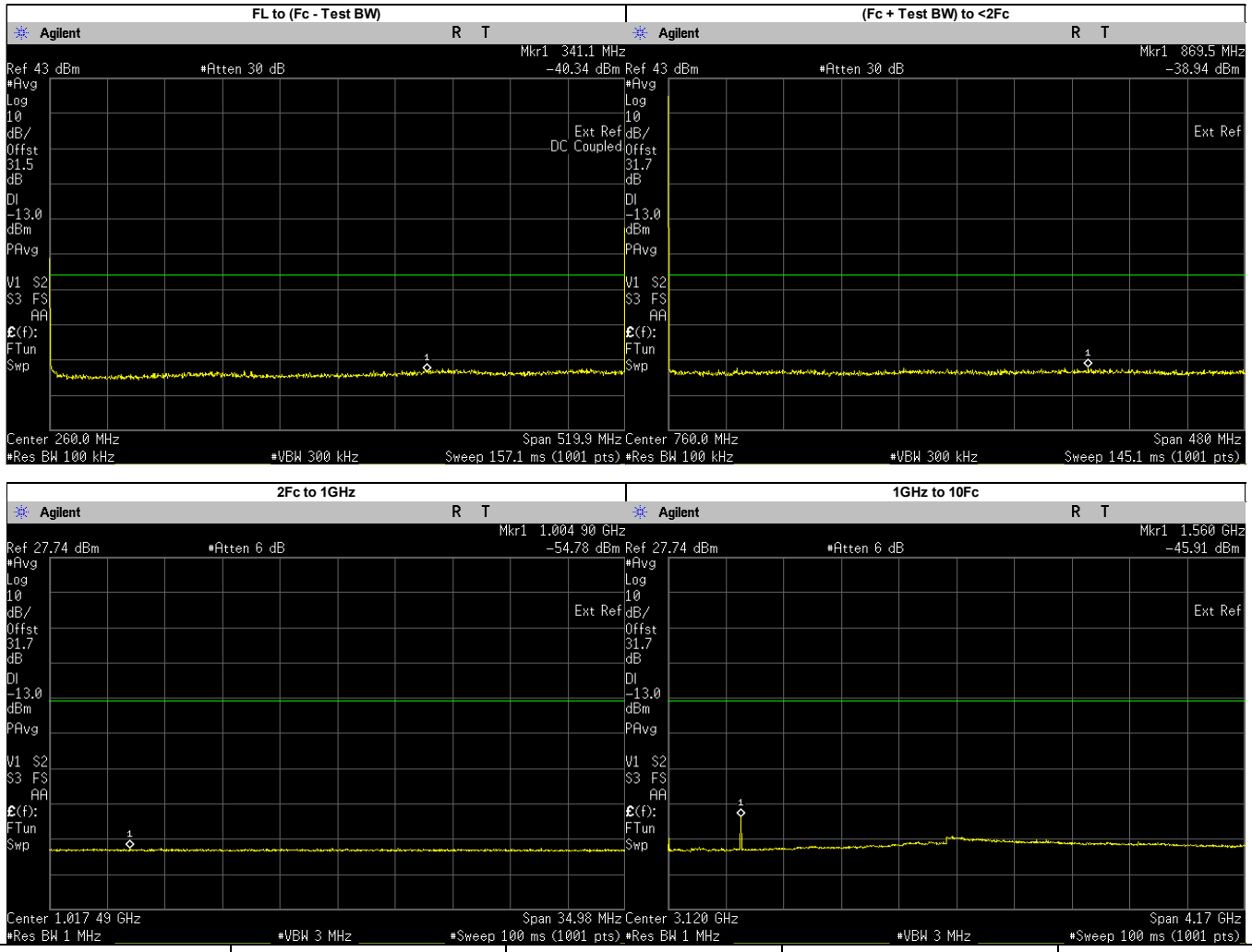
Analog: 511.9875. MHz, 25.kHz Channel Spacing, Low. Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	372.7000	-41.7190	-13.00	PASS
(Fc + Test BW) to <2Fc	717.9616	-38.8600	-13.00	PASS
2Fc to 1GHz	1003.9850	-54.4900	-13.00	PASS
1GHz to 10Fc	1741.6130	-47.1700	-13.00	PASS
	1023.9750	-55.0184	-13.00	PASS
	1535.9630	-54.8556	-13.00	PASS
	2047.9500	-54.1485	-13.00	PASS
	2559.9370	-53.9388	-13.00	PASS
	3071.9250	-50.9230	-13.00	PASS
	3583.9120	-52.6532	-13.00	PASS
	4095.9000	-53.2370	-13.00	PASS
	4607.8870	-53.1441	-13.00	PASS
	5119.8750	-53.5834	-13.00	PASS

Analog: 519.9875. MHz, 25.kHz Channel Spacing, Max. Power

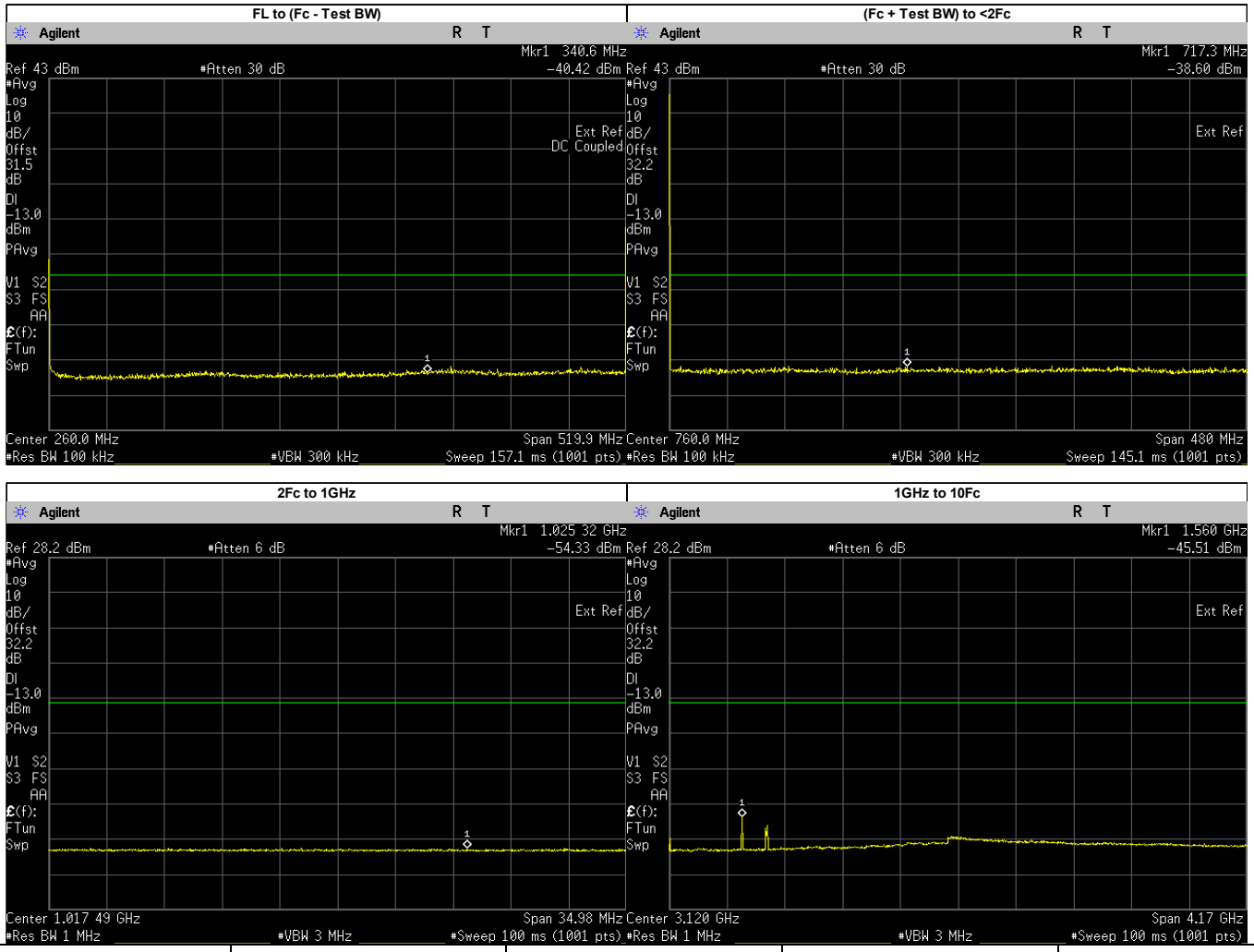
Not for FCC review



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	341.1000	-40.3420	-13.00	PASS
(Fc + Test BW) to <2Fc	869.4520	-38.9400	-13.00	PASS
2Fc to 1GHz	1004.8960	-54.7800	-13.00	PASS
1GHz to 10Fc	1560.0000	-45.9100	-13.00	PASS
	1039.9750	-52.5476	-13.00	PASS
	1559.9630	-46.8354	-13.00	PASS
	2079.9500	-54.4209	-13.00	PASS
	2599.9370	-54.3119	-13.00	PASS
	3119.9250	-51.9970	-13.00	PASS
	3639.9120	-53.1963	-13.00	PASS
	4159.9000	-53.4672	-13.00	PASS
	4679.8870	-53.8056	-13.00	PASS
	5199.8750	-54.0035	-13.00	PASS

Analog: 519.9875. MHz, 25.kHz Channel Spacing, Low. Power

Not for FCC review

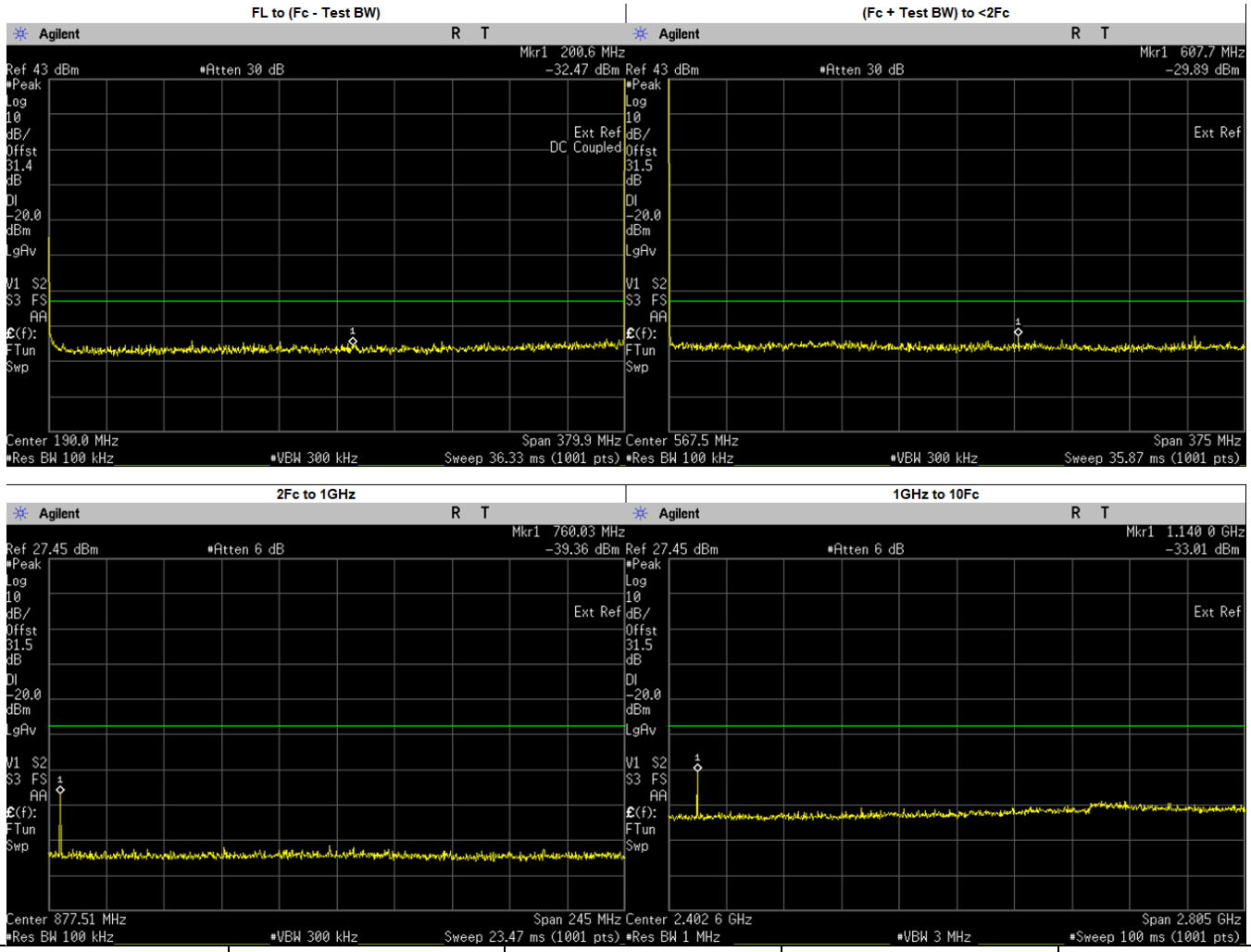


Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	340.6000	-40.4230	-13.00	PASS
(Fc + Test BW) to <2Fc	717.3061	-38.6000	-13.00	PASS
2Fc to 1GHz	1025.3220	-54.3300	-13.00	PASS
1GHz to 10Fc	1559.9630	-45.5100	-13.00	PASS
	1039.9750	-52.1329	-13.00	PASS
	2079.9500	-53.9766	-13.00	PASS
	2599.9370	-53.7465	-13.00	PASS
	3119.9250	-51.4860	-13.00	PASS
	3639.9120	-52.4816	-13.00	PASS
	4159.9000	-53.0583	-13.00	PASS
	4679.8870	-53.3710	-13.00	PASS
	5199.8750	-53.6038	-13.00	PASS

6.10.3. Test Result (Digital)

Digital.: 380.0125. MHz, 12.5 kHz Channel Spacing, Max. Power

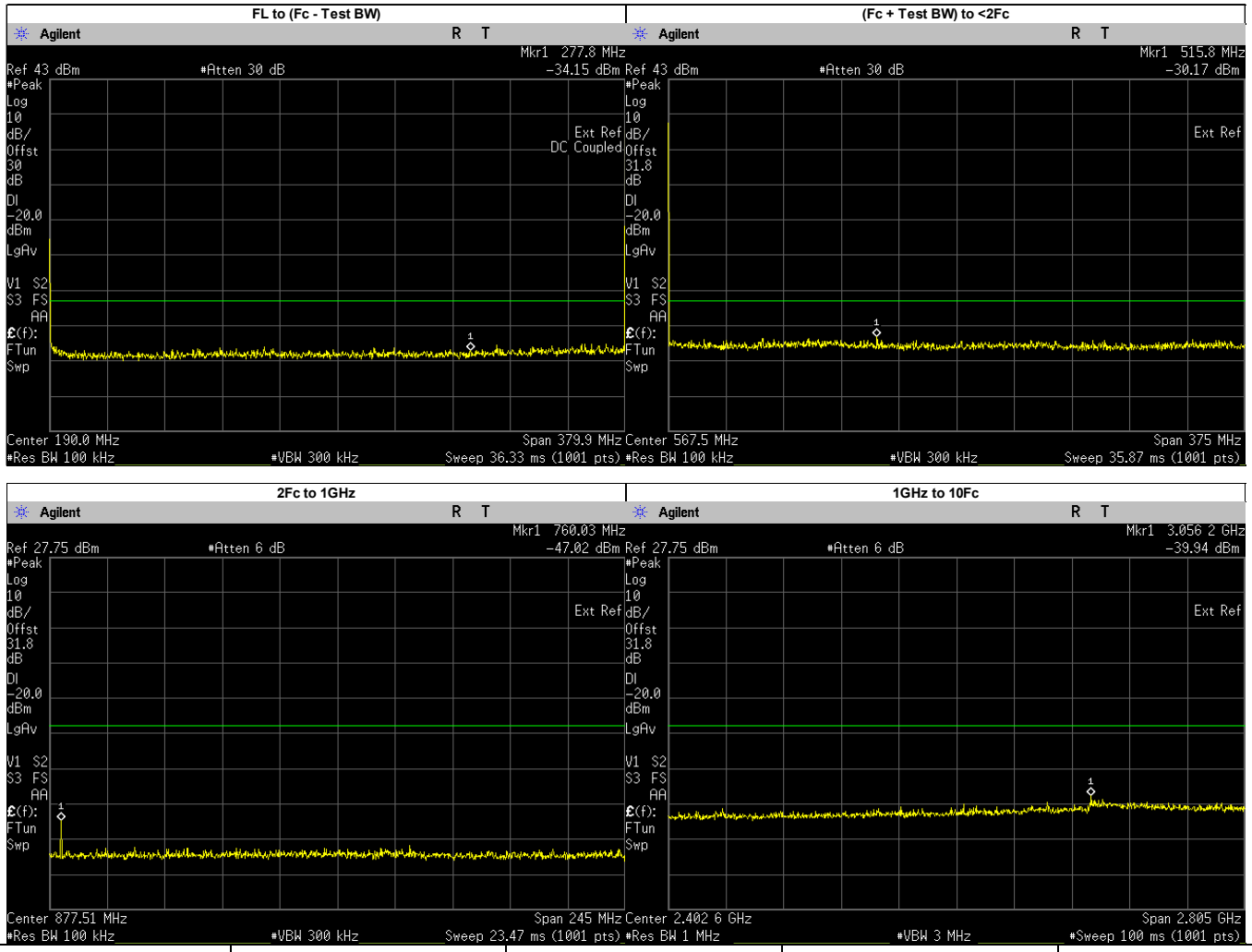
Not for FCC review



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	200.6000	-32.4670	-20.00	PASS
(Fc + Test BW) to <2Fc	607.6669	-29.8900	-20.00	PASS
2Fc to 1GHz	760.0250	-39.3600	-20.00	PASS
1GHz to 10Fc	3109.4540	-41.3900	-20.00	PASS
	1520.0500	-46.4974	-20.00	PASS
	1900.0620	-45.5070	-20.00	PASS
	2280.0750	-45.4725	-20.00	PASS
	2660.0880	-44.7736	-20.00	PASS
	3040.1000	-44.0421	-20.00	PASS
	3420.1130	-43.4401	-20.00	PASS
	3800.1250	-44.1598	-20.00	PASS
	1140.0370	-33.9931	-20.00	PASS

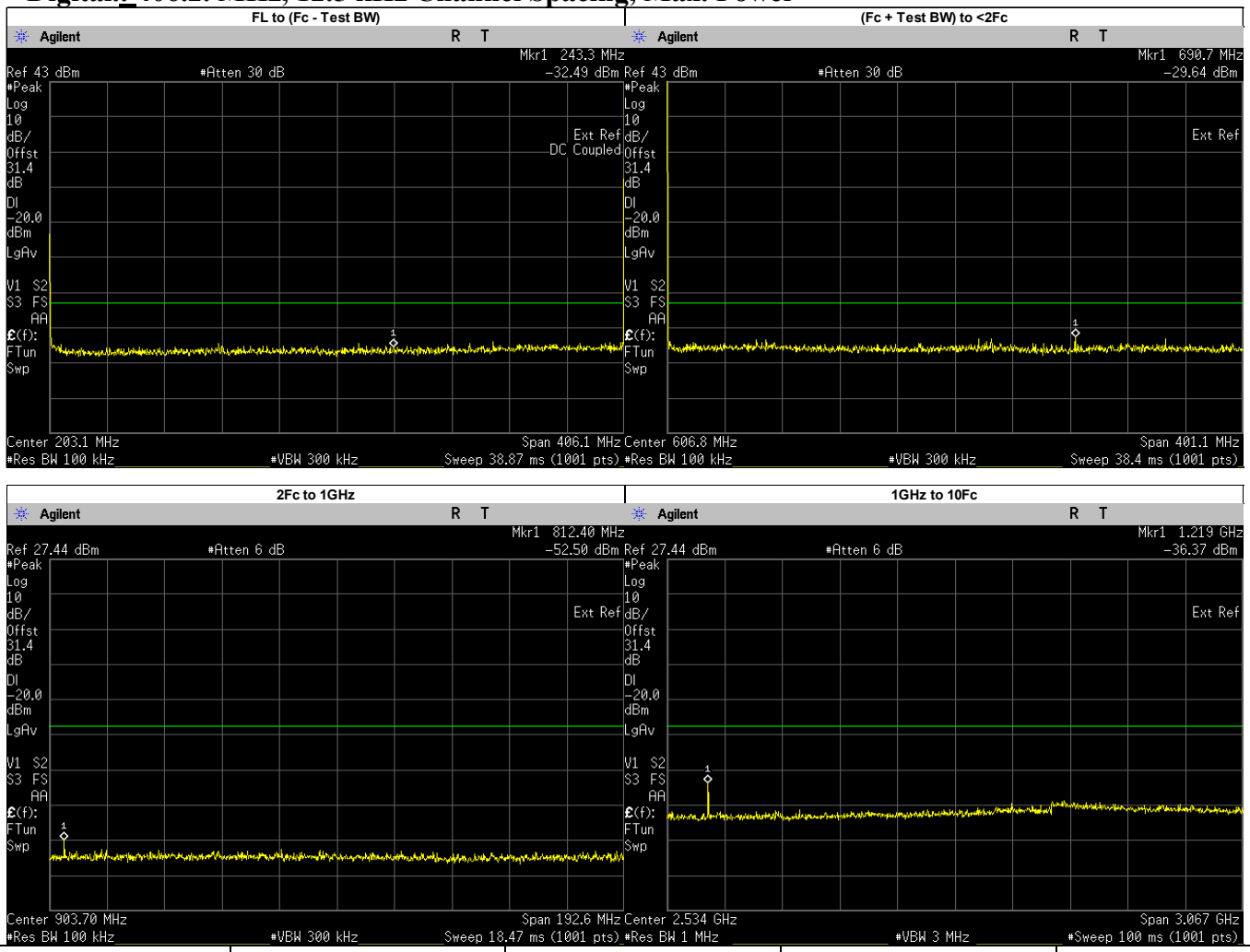
Digital.: 380.0125. MHz, 12.5 kHz Channel Spacing, Low. Power

Not for FCC review



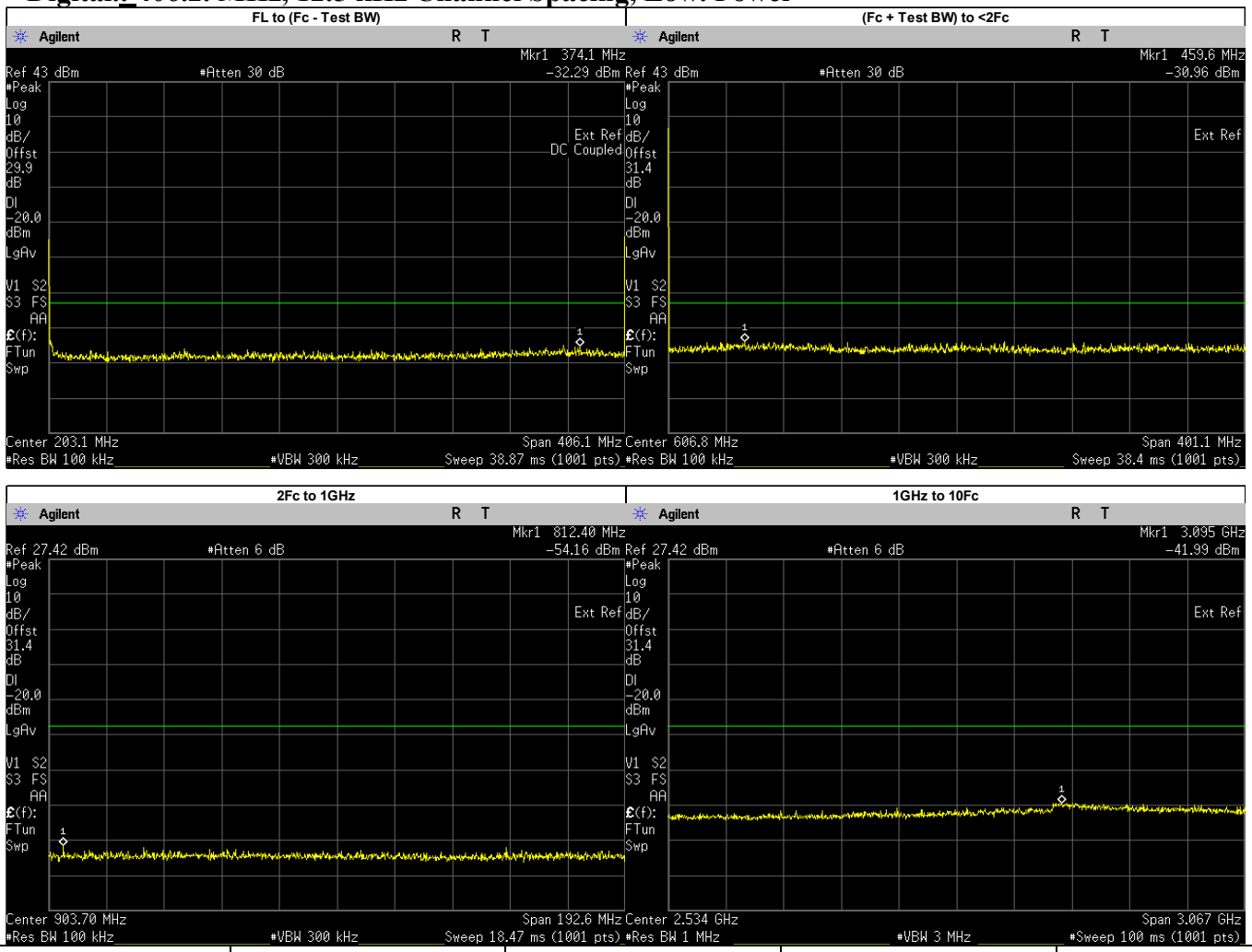
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	277.8000	-34.1450	-20.00	PASS
(Fc + Test BW) to <2Fc	515.8025	-30.1700	-20.00	PASS
2Fc to 1GHz	760.0250	-47.0200	-20.00	PASS
1GHz to 10Fc	3056.1570	-39.9400	-20.00	PASS
	1140.0370	-45.7912	-20.00	PASS
	1520.0500	-45.1238	-20.00	PASS
	1900.0620	-45.1788	-20.00	PASS
	2280.0750	-44.6638	-20.00	PASS
	2660.0880	-44.6949	-20.00	PASS
	3040.1000	-43.4376	-20.00	PASS
	3420.1130	-43.4646	-20.00	PASS
	3800.1250	-43.0188	-20.00	PASS

Digital.: 406.2. MHz, 12.5 kHz Channel Spacing, Max. Power



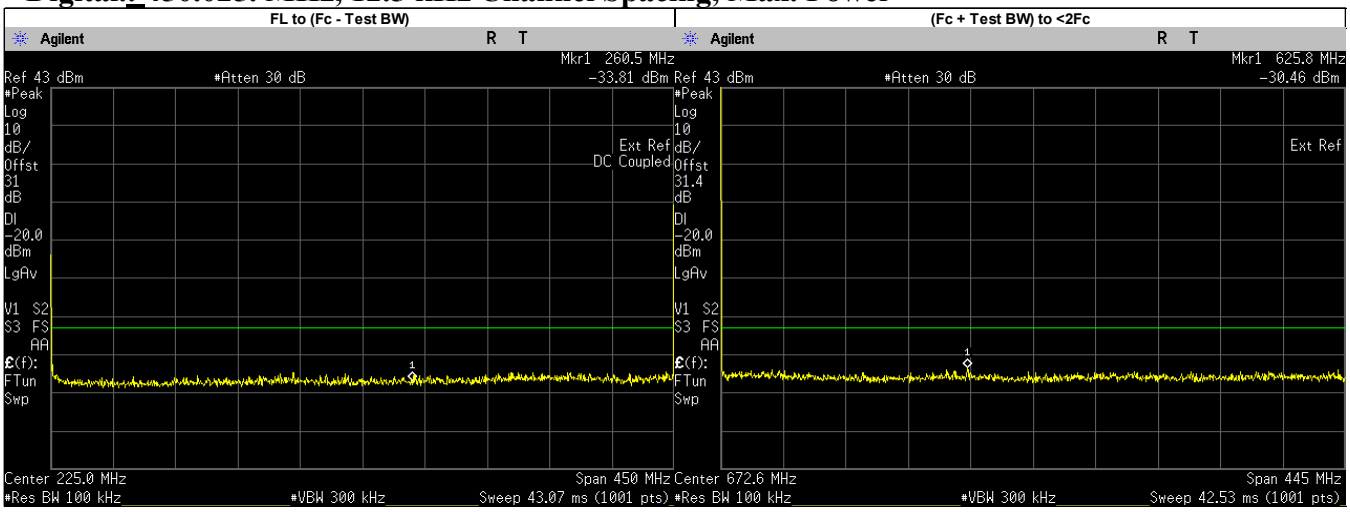
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	243.3000	-32.4870	-20.00	PASS
(Fc + Test BW) to <2Fc	690.6670	-29.6400	-20.00	PASS
2Fc to 1GHz	812.4000	-52.5000	-20.00	PASS
1GHz to 10Fc	1218.6000	-36.3700	-20.00	PASS
	3113.1630	-41.1100	-20.00	PASS
	1624.8000	-45.8863	-20.00	PASS
	2031.0000	-45.9629	-20.00	PASS
	2437.2000	-45.1354	-20.00	PASS
	2843.4000	-44.2505	-20.00	PASS
	3249.6000	-42.8520	-20.00	PASS
	3655.8000	-44.0828	-20.00	PASS
	4062.0000	-43.8120	-20.00	PASS

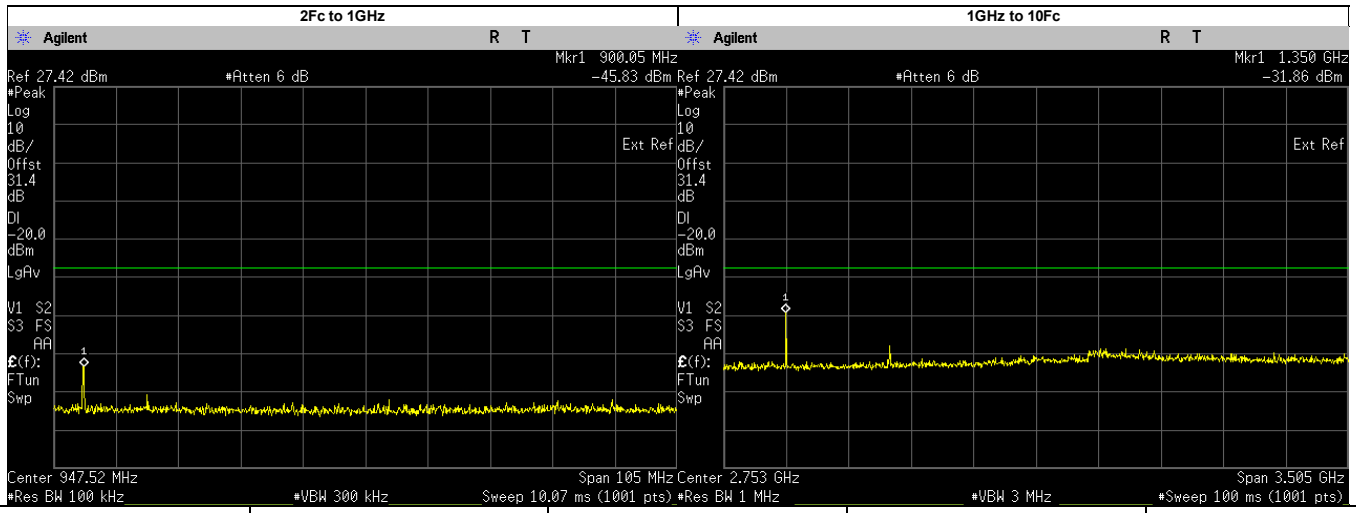
Digital.: 406.2. MHz, 12.5 kHz Channel Spacing, Low. Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	374.1000	-32.2890	-20.00	PASS
(Fc + Test BW) to <2Fc	459.6078	-30.9600	-20.00	PASS
2Fc to 1GHz	812.4000	-54.1600	-20.00	PASS
1GHz to 10Fc	3094.7610	-41.9900	-20.00	PASS
	1218.6000	-46.2591	-20.00	PASS
	1624.8000	-45.8985	-20.00	PASS
	2031.0000	-45.2936	-20.00	PASS
	2437.2000	-44.9642	-20.00	PASS
	2843.4000	-44.3059	-20.00	PASS
	3249.6000	-43.0761	-20.00	PASS
	3655.8000	-43.5916	-20.00	PASS
	4062.0000	-44.2853	-20.00	PASS

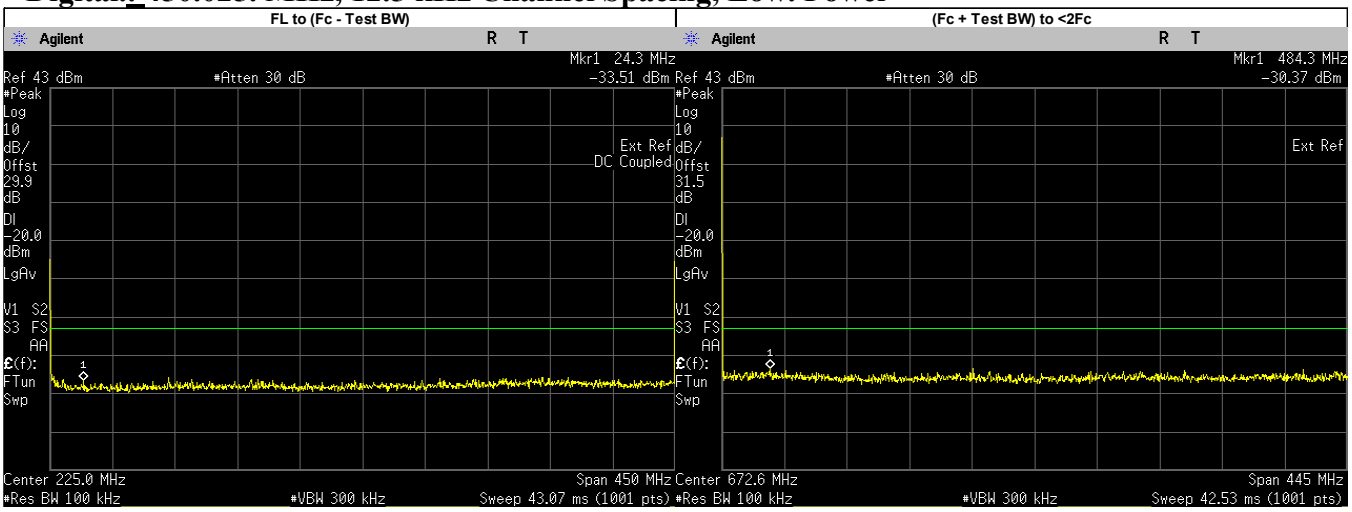
Digital.; 450.025. MHz, 12.5 kHz Channel Spacing, Max. Power

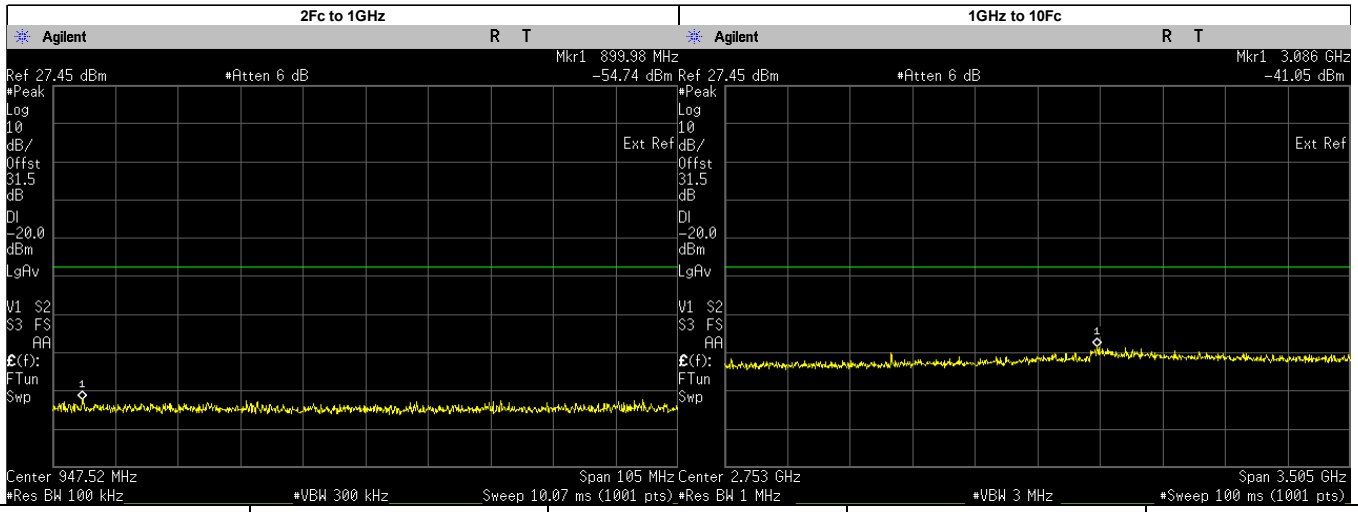




Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	260.5000	-33.8130	-20.00	PASS
(Fc + Test BW) to <2Fc	625.8442	-30.4600	-20.00	PASS
2Fc to 1GHz	900.0500	-45.8300	-20.00	PASS
1GHz to 10Fc	1350.0750	-31.8600	-20.00	PASS
	1932.3970	-40.3800	-20.00	PASS
	1800.1000	-45.6952	-20.00	PASS
	2250.1250	-45.5483	-20.00	PASS
	2700.1500	-44.3785	-20.00	PASS
	3150.1750	-42.7639	-20.00	PASS
	3600.2000	-43.3703	-20.00	PASS
	4050.2250	-44.5910	-20.00	PASS
	4500.2500	-43.6338	-20.00	PASS

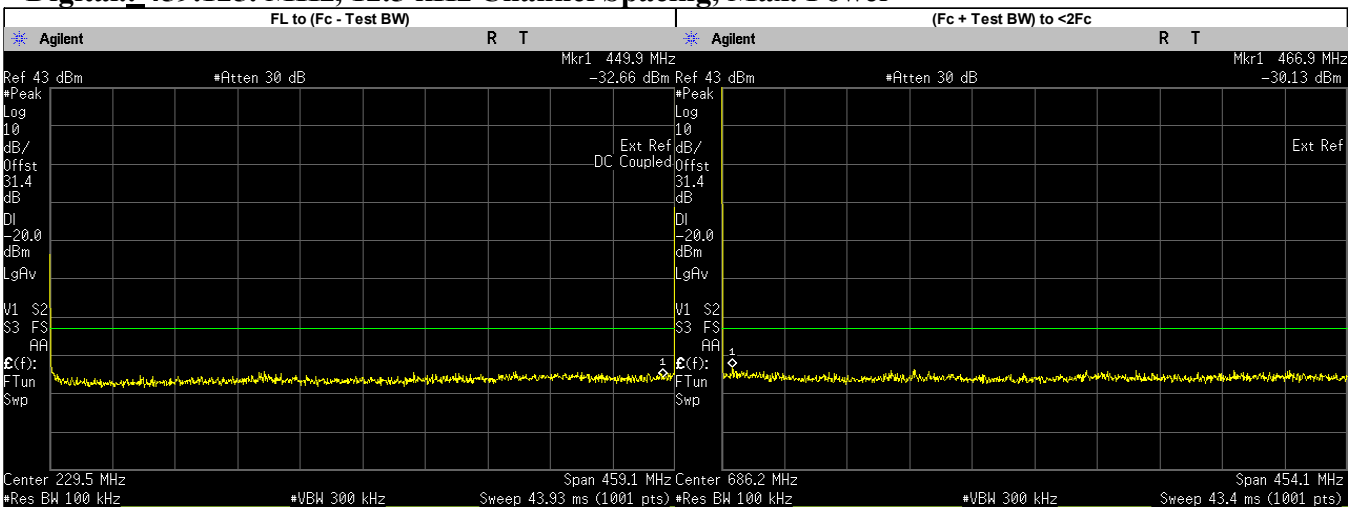
Digital.; 450.025. MHz, 12.5 kHz Channel Spacing, Low. Power

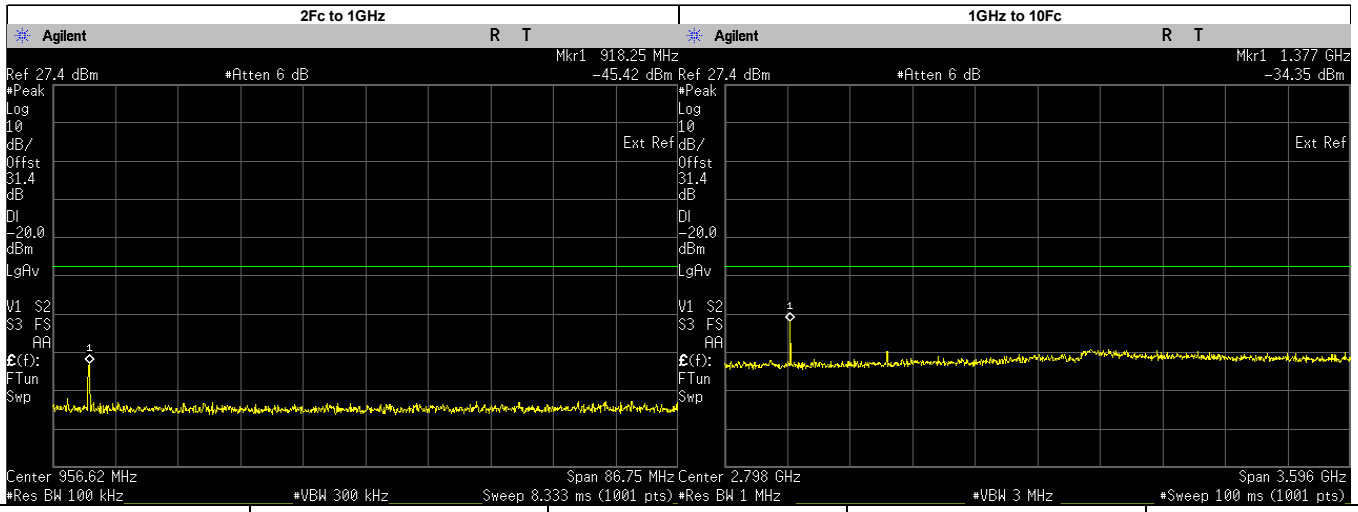




Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	24.3000	-33.5110	-20.00	PASS
(Fc + Test BW) to <2Fc	484.3444	-30.3700	-20.00	PASS
2Fc to 1GHz	899.9827	-54.7400	-20.00	PASS
	900.0500	-54.8085	-20.00	PASS
1GHz to 10Fc	3085.6240	-41.0500	-20.00	PASS
	1350.0750	-45.6136	-20.00	PASS
	1800.1000	-45.7681	-20.00	PASS
	2250.1250	-44.9607	-20.00	PASS
	2700.1500	-45.0507	-20.00	PASS
	3150.1750	-42.5279	-20.00	PASS
	3600.2000	-43.6586	-20.00	PASS
	4050.2250	-44.3092	-20.00	PASS
	4500.2500	-43.8507	-20.00	PASS

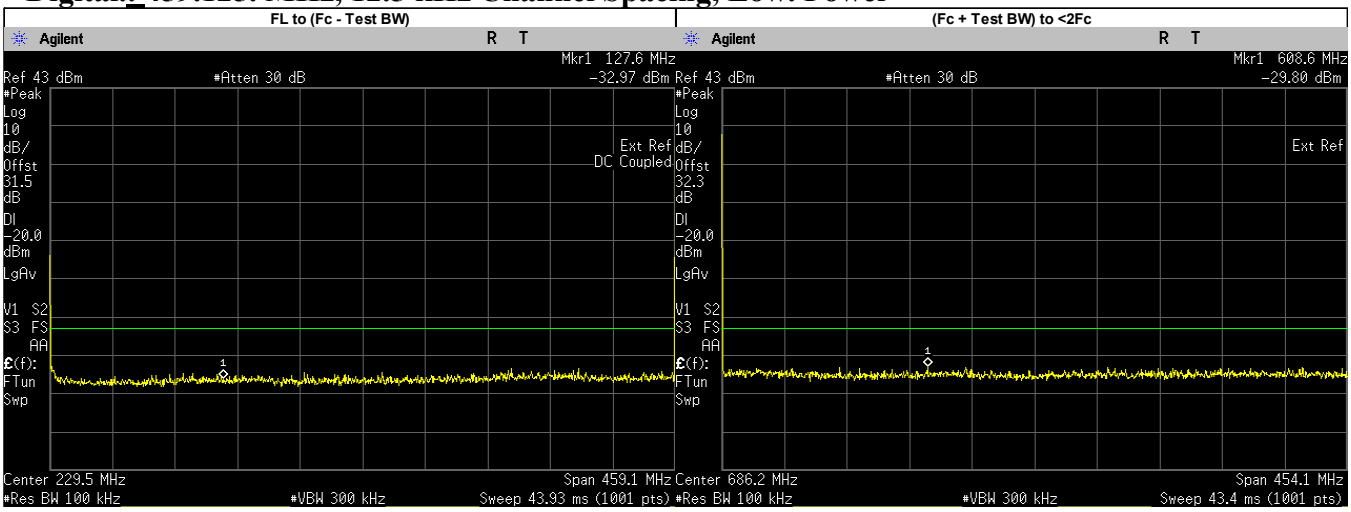
Digital.: 459.125. MHz, 12.5 kHz Channel Spacing, Max. Power

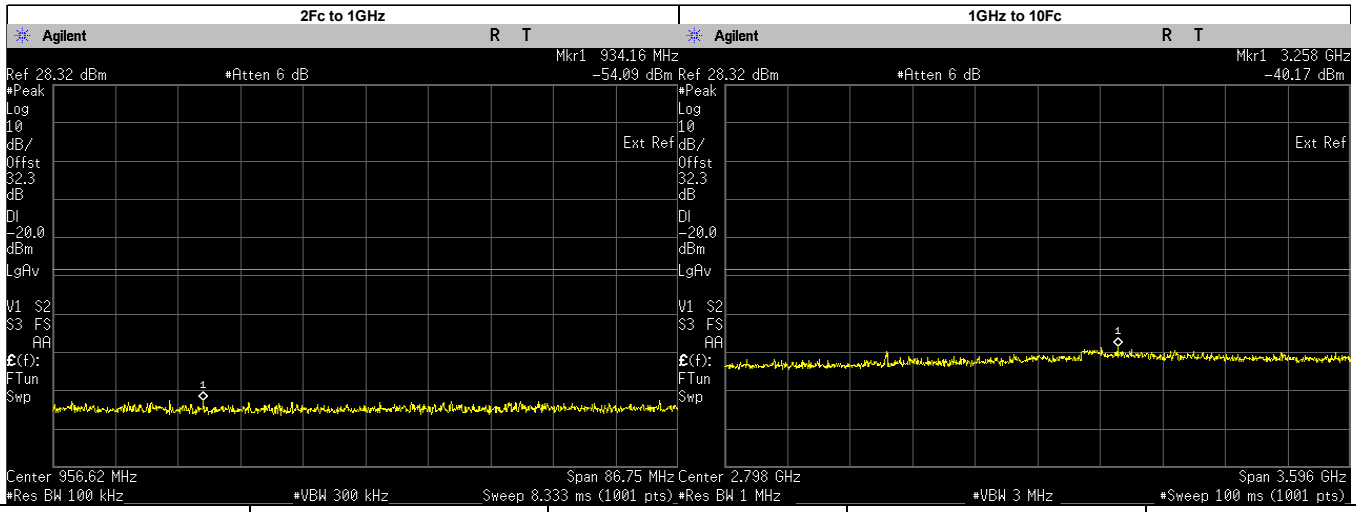




Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	449.9000	-32.6610	-20.00	PASS
(Fc + Test BW) to <2Fc	466.9010	-30.1300	-20.00	PASS
2Fc to 1GHz	918.2500	-45.4200	-20.00	PASS
1GHz to 10Fc	1377.3750	-34.3500	-20.00	PASS
	3208.0970	-41.8500	-20.00	PASS
	1836.5000	-45.3712	-20.00	PASS
	2295.6250	-45.0680	-20.00	PASS
	2754.7500	-43.8953	-20.00	PASS
	3213.8750	-42.5901	-20.00	PASS
	3673.0000	-43.7514	-20.00	PASS
	4132.1250	-44.8997	-20.00	PASS
	4591.2500	-44.4798	-20.00	PASS

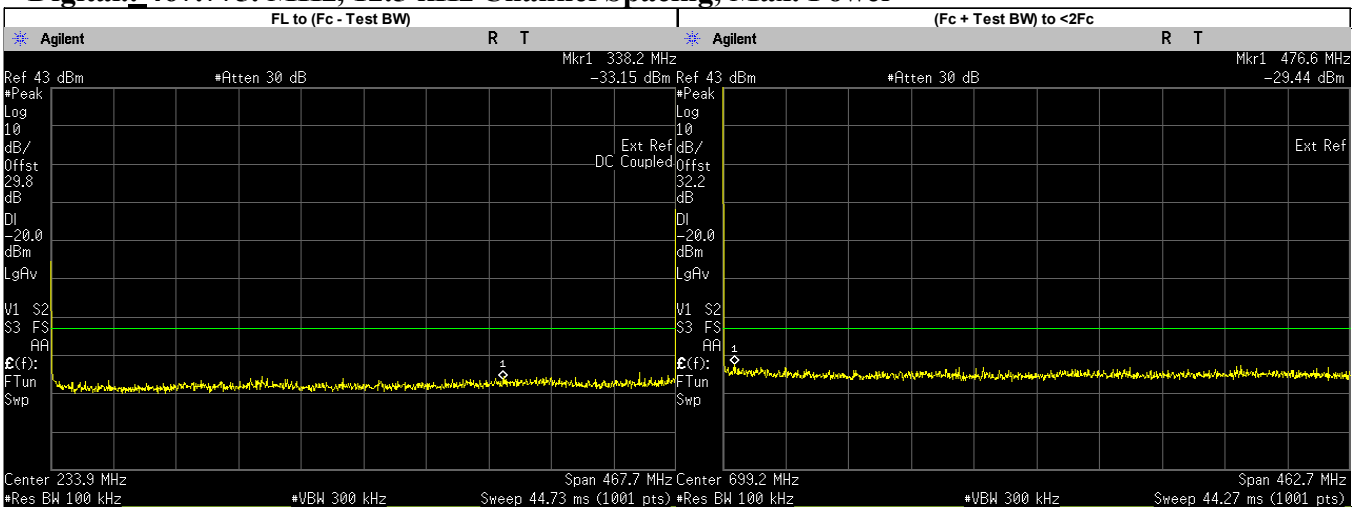
Digital.; 459.125. MHz, 12.5 kHz Channel Spacing, Low. Power

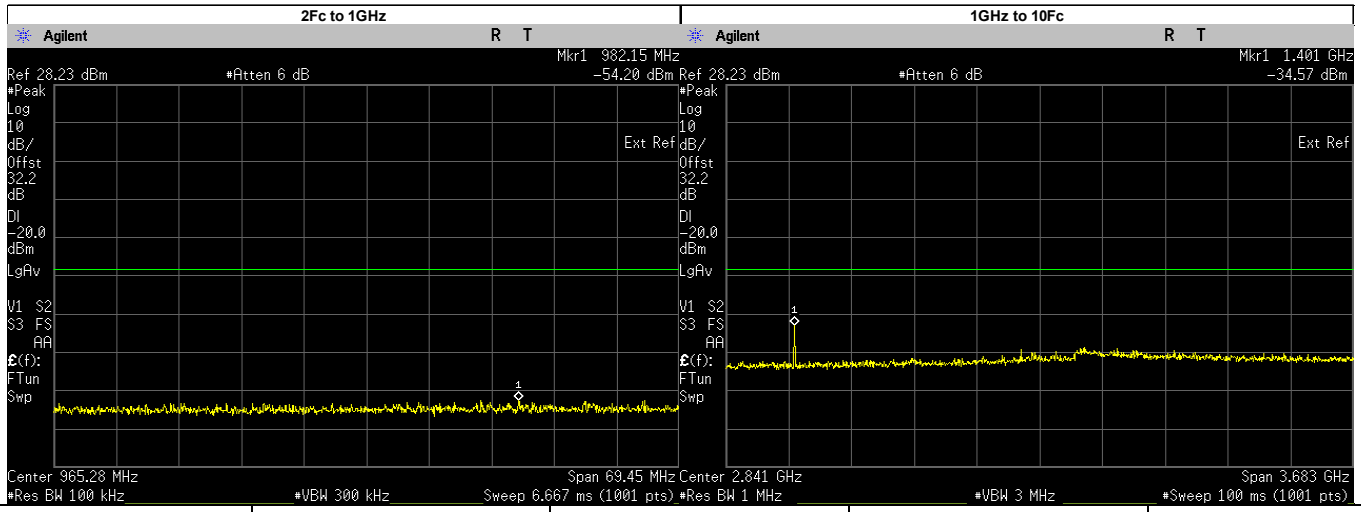




Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	127.6000	-32.9660	-20.00	PASS
(Fc + Test BW) to <2Fc	608.5702	-29.8000	-20.00	PASS
2Fc to 1GHz	934.1567	-54.0900	-20.00	PASS
	918.2500	-56.2317	-20.00	PASS
1GHz to 10Fc	3258.4450	-40.1700	-20.00	PASS
	1377.3750	-45.4411	-20.00	PASS
	1836.5000	-44.1349	-20.00	PASS
	2295.6250	-44.8991	-20.00	PASS
	2754.7500	-43.0126	-20.00	PASS
	3213.8750	-42.4929	-20.00	PASS
	3673.0000	-42.4927	-20.00	PASS
	4132.1250	-43.0275	-20.00	PASS
	4591.2500	-43.2641	-20.00	PASS

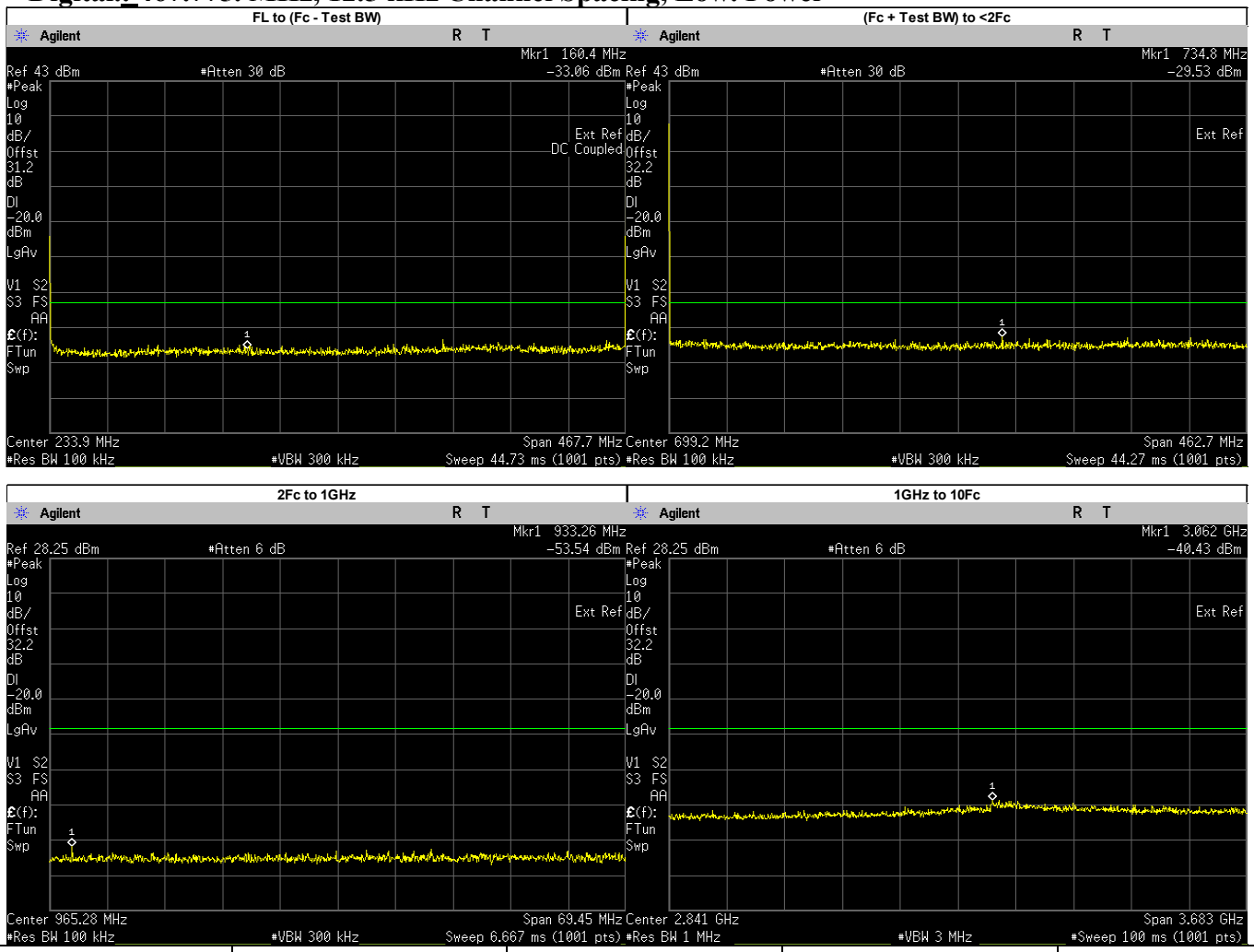
Digital.: 467.775. MHz, 12.5 kHz Channel Spacing, Max. Power





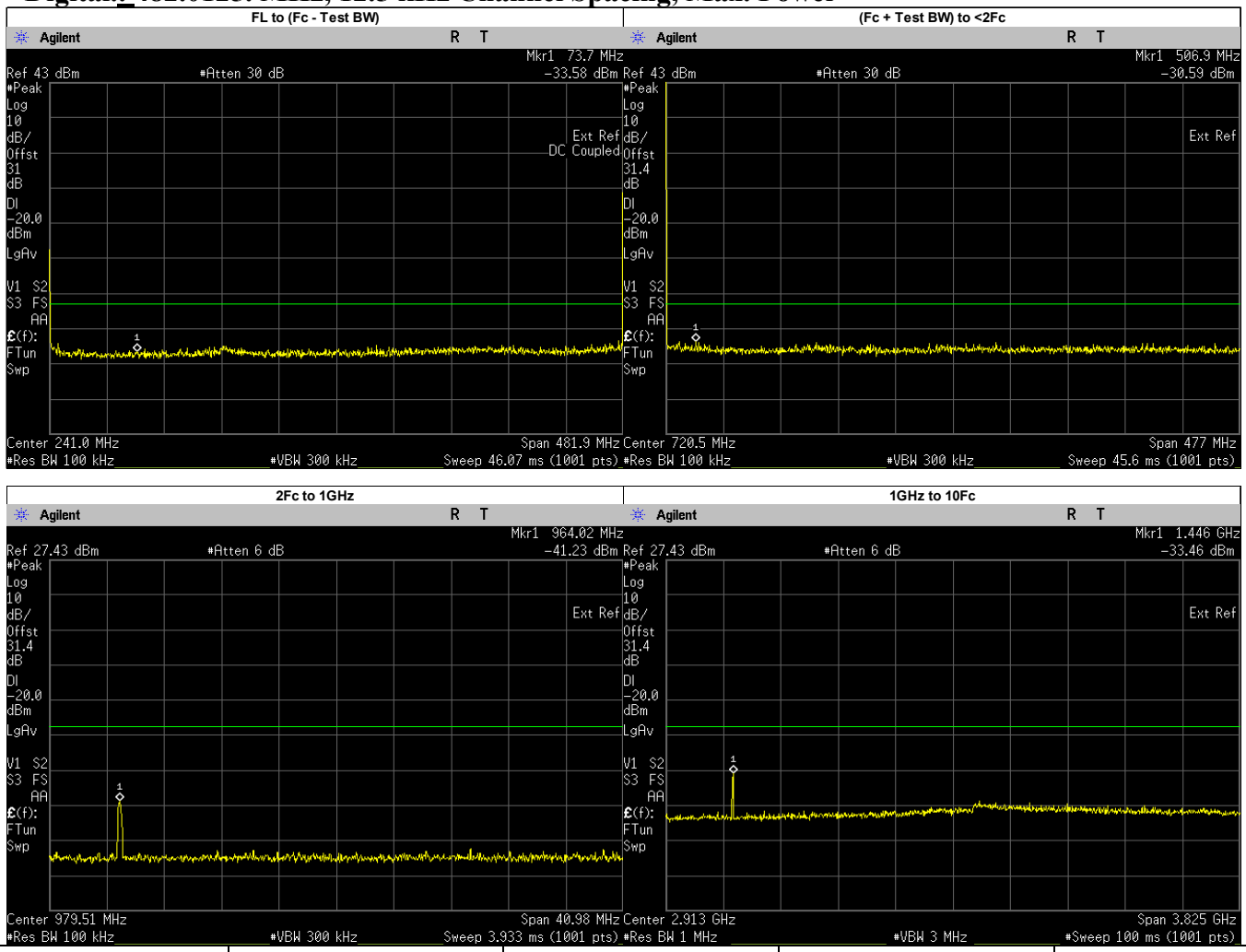
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	338.2000	-33.1490	-20.00	PASS
(Fc + Test BW) to <2Fc	476.6234	-29.4400	-20.00	PASS
2Fc to 1GHz	982.1513	-54.2000	-20.00	PASS
	935.5500	-56.0086	-20.00	PASS
1GHz to 10Fc	1401.4200	-34.5700	-20.00	PASS
	1871.1000	-44.3594	-20.00	PASS
	2338.8750	-43.7769	-20.00	PASS
	2806.6500	-43.4602	-20.00	PASS
	3274.4250	-42.4727	-20.00	PASS
	3742.2000	-42.5416	-20.00	PASS
	4209.9750	-42.8316	-20.00	PASS
	4677.7500	-43.5260	-20.00	PASS
	1403.3250	-34.5999	-20.00	PASS

Digital.: 467.775. MHz, 12.5 kHz Channel Spacing, Low. Power



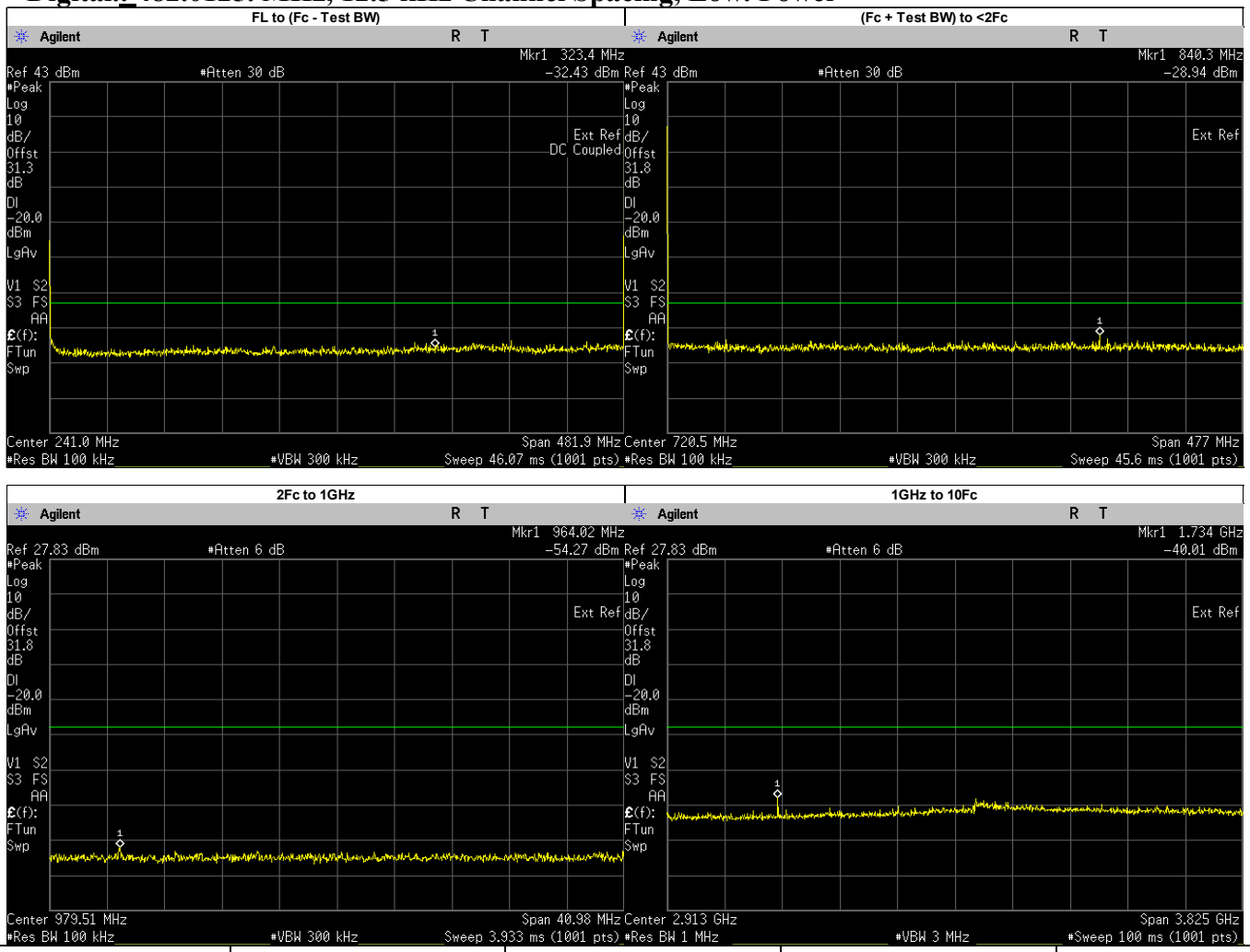
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	160.4000	-33.0600	-20.00	PASS
(Fc + Test BW) to <2Fc	734.8202	-29.5300	-20.00	PASS
2Fc to 1GHz	933.2586	-53.5400	-20.00	PASS
	935.5500	-55.6548	-20.00	PASS
1GHz to 10Fc	3062.3400	-40.4300	-20.00	PASS
	1403.3250	-45.3296	-20.00	PASS
	1871.1000	-44.9895	-20.00	PASS
	2338.8750	-44.7890	-20.00	PASS
	2806.6500	-43.0301	-20.00	PASS
	3274.4250	-41.7474	-20.00	PASS
	3742.2000	-43.3473	-20.00	PASS
	4209.9750	-43.6755	-20.00	PASS
	4677.7500	-44.1614	-20.00	PASS

Digital.; 482.0125. MHz, 12.5 kHz Channel Spacing, Max. Power



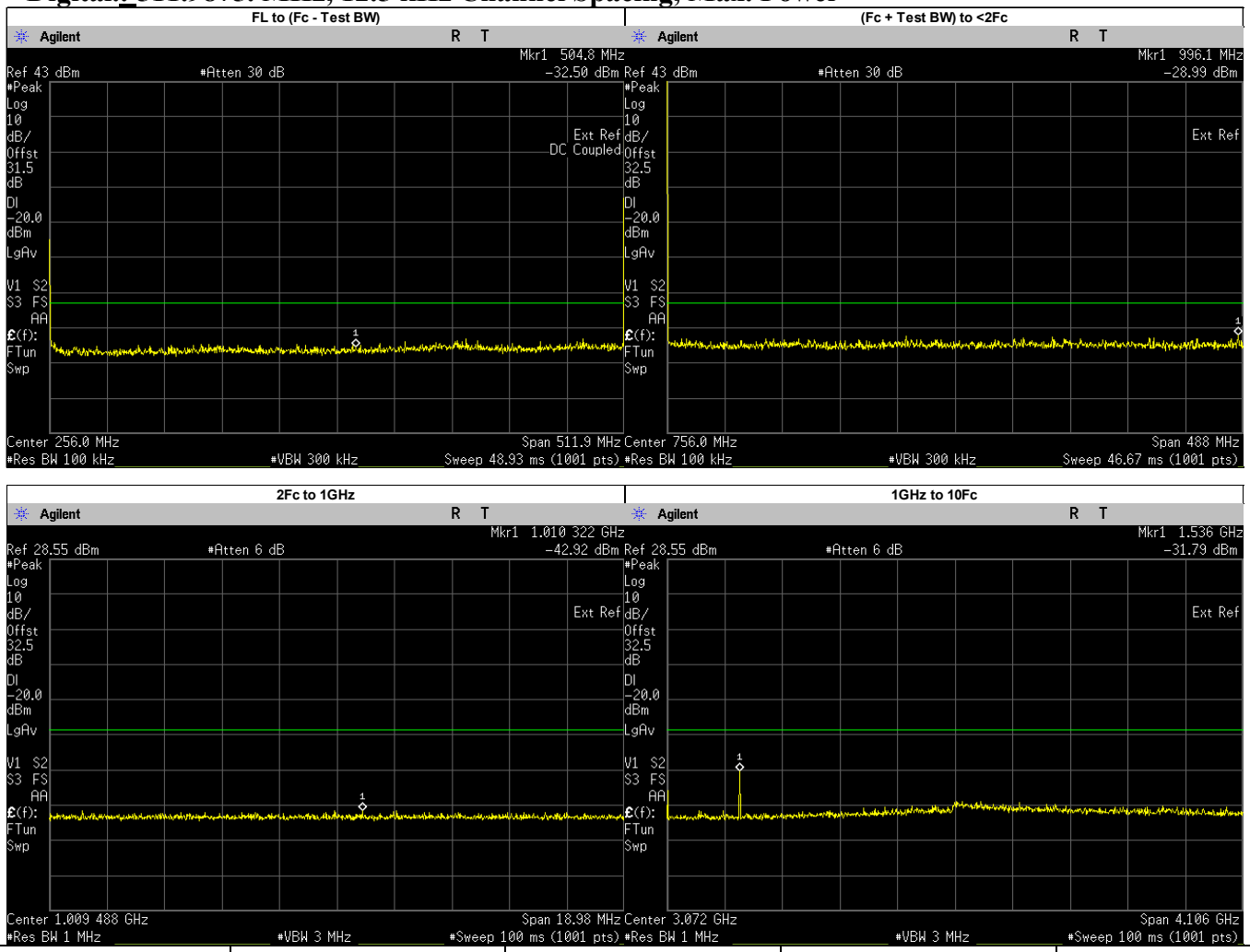
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	73.7000	-33.5800	-20.00	PASS
(Fc + Test BW) to <2Fc	506.8710	-30.5900	-20.00	PASS
2Fc to 1GHz	964.0250	-41.2300	-20.00	PASS
1GHz to 10Fc	1446.0370	-33.4600	-20.00	PASS
	1928.0500	-45.5761	-20.00	PASS
	2410.0620	-45.5360	-20.00	PASS
	2892.0750	-44.4164	-20.00	PASS
	3374.0880	-43.6184	-20.00	PASS
	3856.1000	-43.6313	-20.00	PASS
	4338.1130	-44.4036	-20.00	PASS
	4820.1250	-44.9923	-20.00	PASS
	1443.7150	-35.3000	-20.00	PASS

Digital.; 482.0125. MHz, 12.5 kHz Channel Spacing, Low. Power



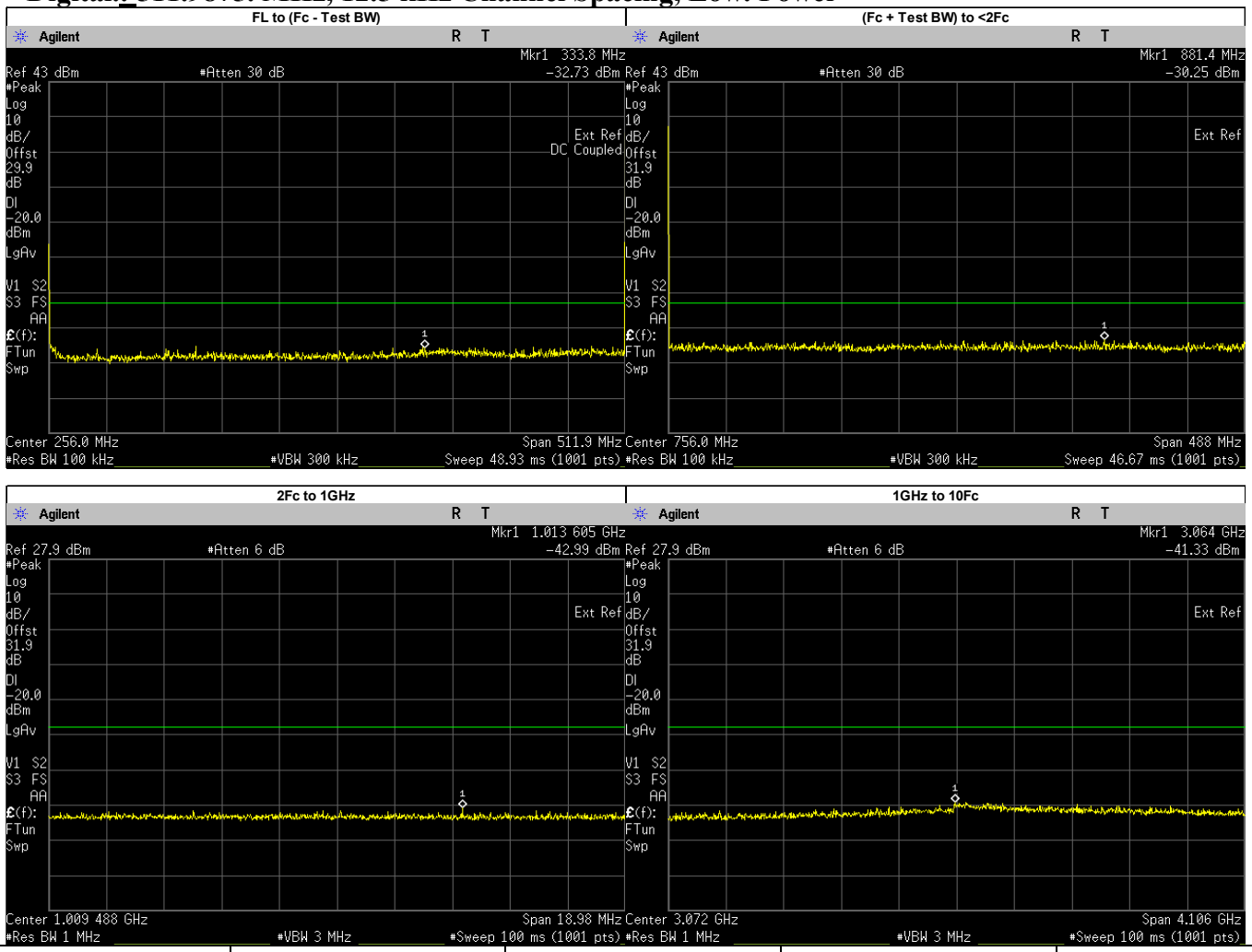
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	323.4000	-32.4280	-20.00	PASS
(Fc + Test BW) to <2Fc	840.2630	-28.9400	-20.00	PASS
2Fc to 1GHz	964.0250	-54.2700	-20.00	PASS
1GHz to 10Fc	1734.4240	-40.0100	-20.00	PASS
	1446.0370	-46.0403	-20.00	PASS
	1928.0500	-45.1580	-20.00	PASS
	2410.0620	-44.0371	-20.00	PASS
	2892.0750	-43.8452	-20.00	PASS
	3374.0880	-43.3529	-20.00	PASS
	3856.1000	-43.0749	-20.00	PASS
	4338.1130	-44.3174	-20.00	PASS
	4820.1250	-44.7813	-20.00	PASS

Digital.; 511.9875. 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)	272.4000	-32.5000	-20.00	PASS
(Fc + Test BW) to <2Fc	996.0964	-28.9900	-20.00	PASS
2Fc to 1GHz	1010.3220	-42.9100	-20.00	PASS
1GHz to 10Fc	1535.9630	-31.7900	-20.00	PASS
	3084.2430	-40.3700	-20.00	PASS
	2047.9500	-44.3727	-20.00	PASS
	2559.9370	-43.3389	-20.00	PASS
	3071.9250	-40.7270	-20.00	PASS
	3583.9120	-41.8757	-20.00	PASS
	4095.9000	-42.7732	-20.00	PASS
	4607.8870	-42.9019	-20.00	PASS
	5119.8750	-43.7569	-20.00	PASS
	1023.9750	-39.0379	-20.00	PASS

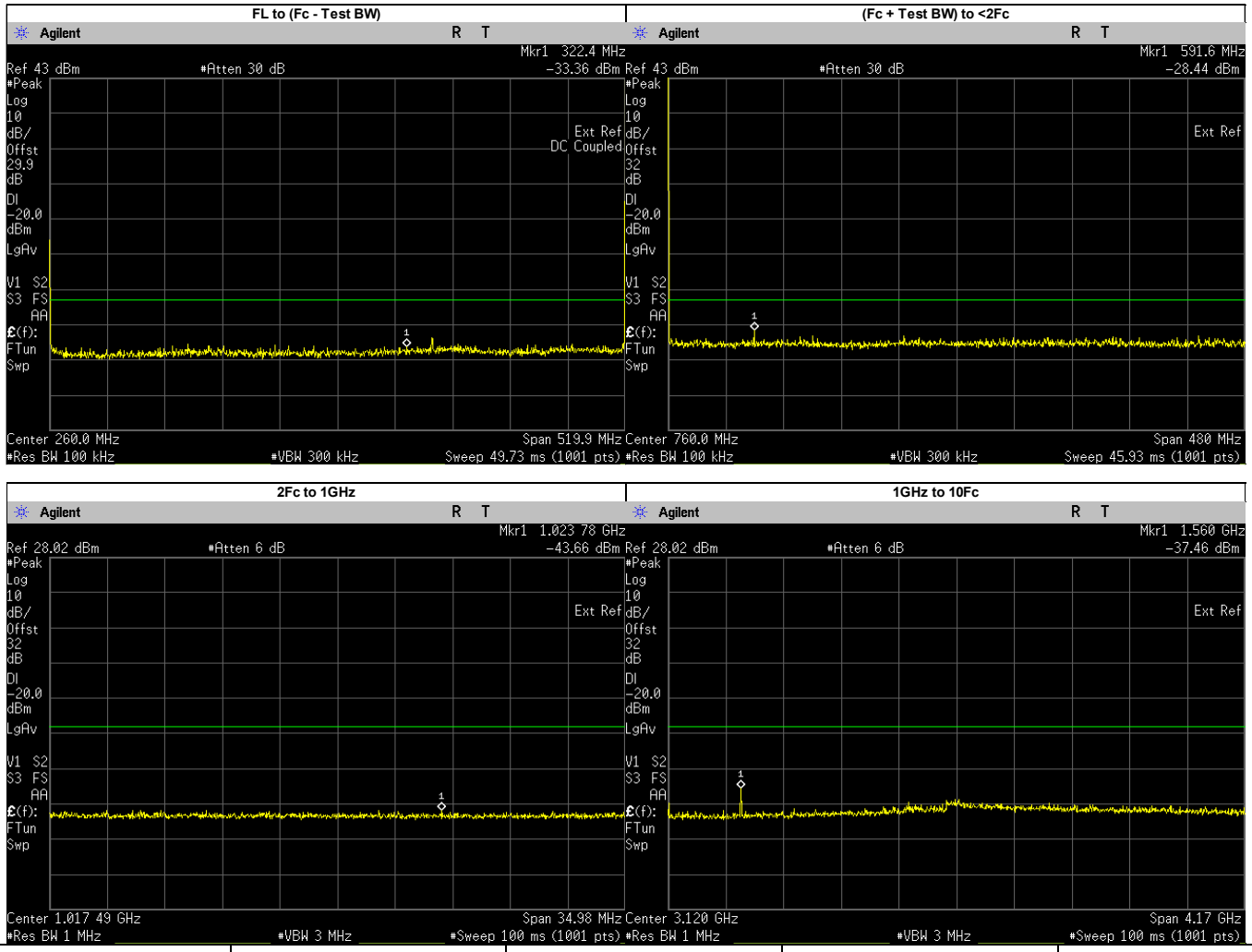
Digital.; 511.9875. MHz, 12.5 kHz Channel Spacing, Low. Power



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	333.8000	-32.7270	-20.00	PASS
(Fc + Test BW) to <2Fc	881.4268	-30.2500	-20.00	PASS
2Fc to 1GHz	1013.6050	-42.9800	-20.00	PASS
1GHz to 10Fc	3063.7130	-41.3300	-20.00	PASS
	1023.9750	-45.9281	-20.00	PASS
	1535.9630	-44.8610	-20.00	PASS
	2047.9500	-45.0341	-20.00	PASS
	2559.9370	-44.6167	-20.00	PASS
	3071.9250	-42.0930	-20.00	PASS
	3583.9120	-43.3914	-20.00	PASS
	4095.9000	-44.2622	-20.00	PASS
	4607.8870	-43.8588	-20.00	PASS
	5119.8750	-44.6666	-20.00	PASS

Digital.: 519.9875. MHz, 12.5 kHz Channel Spacing, Max. Power

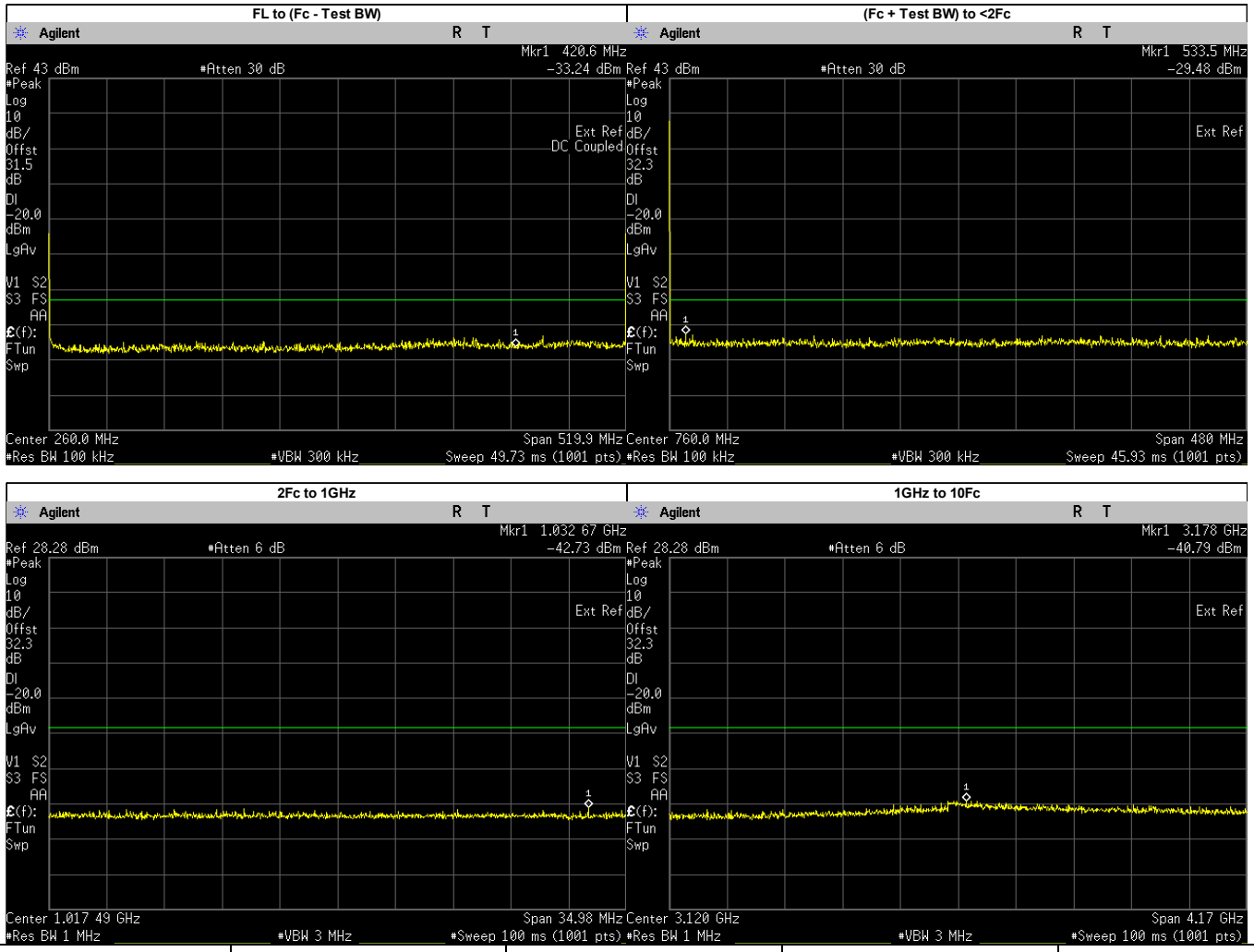
Not for FCC review



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	322.4000	-33.3620	-20.00	PASS
(Fc + Test BW) to <2Fc	591.5577	-28.4400	-20.00	PASS
2Fc to 1GHz	1023.7830	-43.6600	-20.00	PASS
1GHz to 10Fc	1559.9630	-37.4600	-20.00	PASS
	3136.6050	-40.6500	-20.00	PASS
	1039.9750	-42.5626	-20.00	PASS
	2079.9500	-44.7907	-20.00	PASS
	2599.9370	-44.1967	-20.00	PASS
	3119.9250	-41.7450	-20.00	PASS
	3639.9120	-43.4985	-20.00	PASS
	4159.9000	-43.6849	-20.00	PASS
	4679.8870	-44.1549	-20.00	PASS
	5199.8750	-43.7425	-20.00	PASS

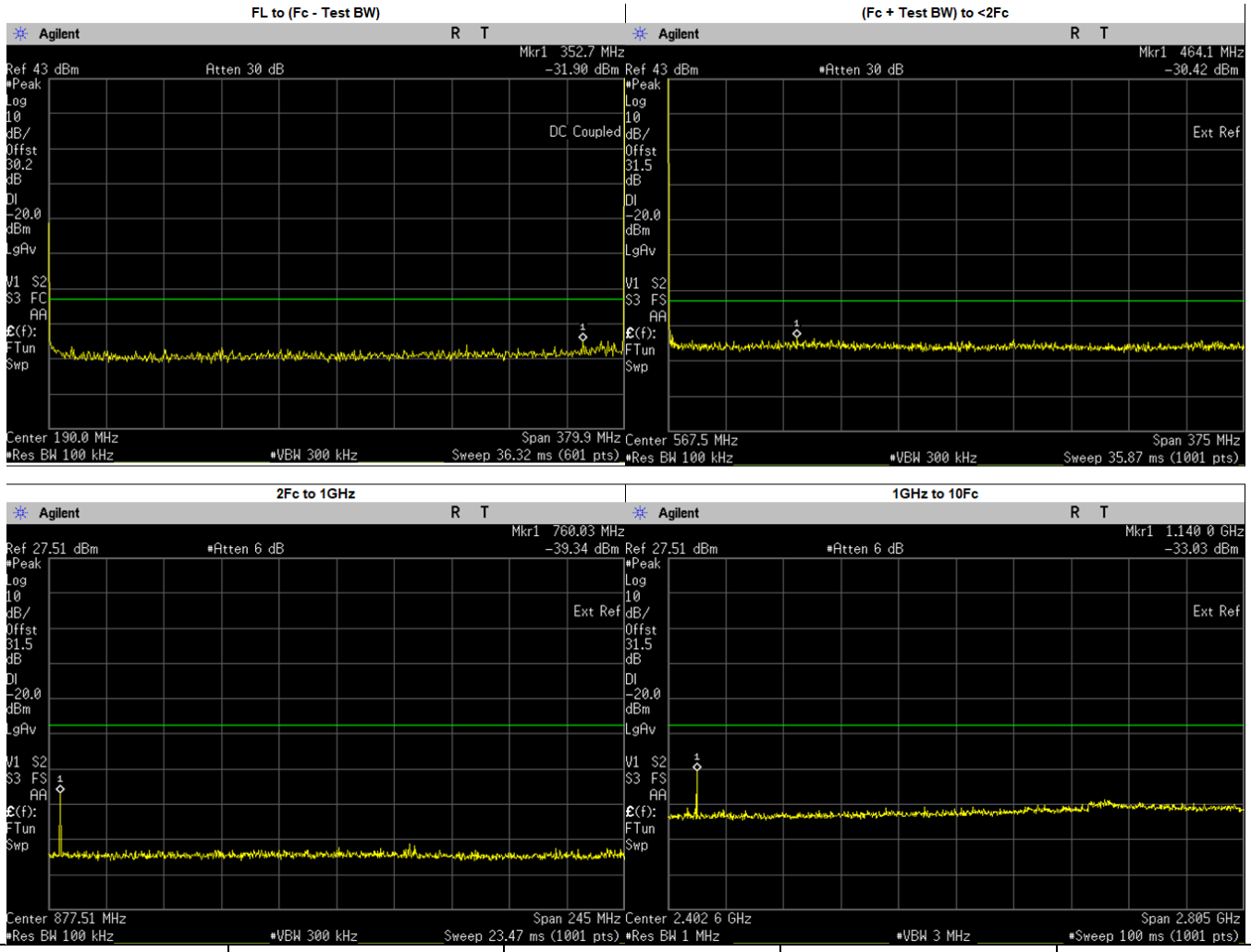
Digital.: 519.9875. MHz, 12.5 kHz Channel Spacing, Low. Power

Not for FCC review



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	420.6000	-33.2410	-20.00	PASS
(Fc + Test BW) to <2Fc	533.4831	-29.4800	-20.00	PASS
2Fc to 1GHz	1032.6670	-42.7300	-20.00	PASS
1GHz to 10Fc	3178.3040	-40.7900	-20.00	PASS
	1039.9750	-45.3496	-20.00	PASS
	1559.9630	-44.8416	-20.00	PASS
	2079.9500	-44.3890	-20.00	PASS
	2599.9370	-44.4086	-20.00	PASS
	3119.9250	-41.5760	-20.00	PASS
	3639.9120	-42.7476	-20.00	PASS
	4159.9000	-43.2903	-20.00	PASS
	4679.8870	-43.4781	-20.00	PASS
	5199.8750	-44.0655	-20.00	PASS

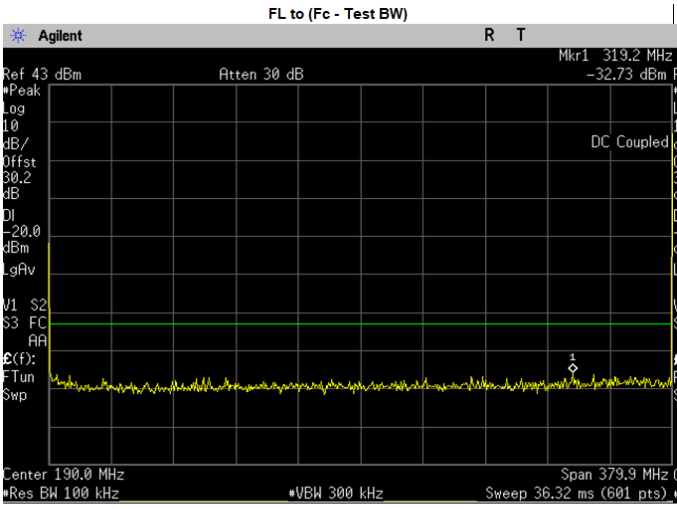
Phase II.: 380.0125. MHz, 12.5 kHz Channel Spacing, Max. Power
Not for FCC review



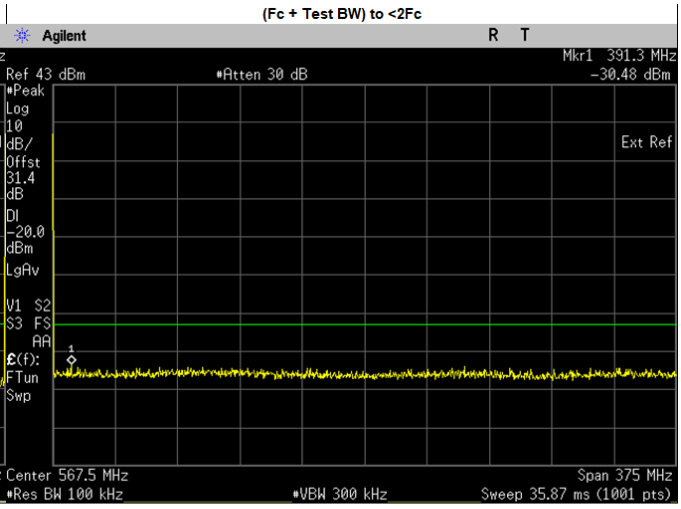
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	352.7000	-31.9000	-20.00	PASS
(Fc + Test BW) to <2Fc	464.0585	-30.4200	-20.00	PASS
2Fc to 1GHz	760.0300	-39.3400	-20.00	PASS
1GHz to 10Fc	3126.2850	-41.2000	-20.00	PASS
	1520.0500	-45.5652	-20.00	PASS
	1900.0620	-45.0671	-20.00	PASS
	2280.0750	-45.0819	-20.00	PASS
	2660.0880	-44.7135	-20.00	PASS
	3040.1000	-44.1840	-20.00	PASS
	3420.1130	-42.9533	-20.00	PASS
	3800.1250	-44.1109	-20.00	PASS
	1140.0370	-34.0220	-20.00	PASS

Phase II.: 380.0125. MHz, 12.5 kHz Channel Spacing, Low. Power
Not for FCC review

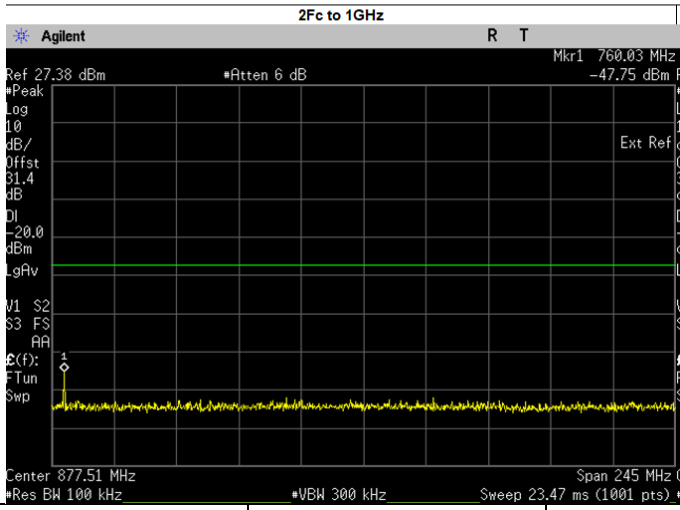
FL to (Fc - Test BW)



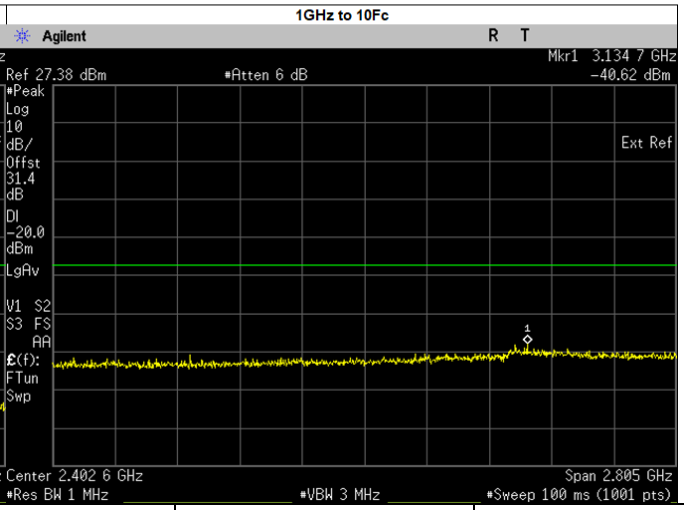
(Fc + Test BW) to <2Fc



2Fc to 1GHz



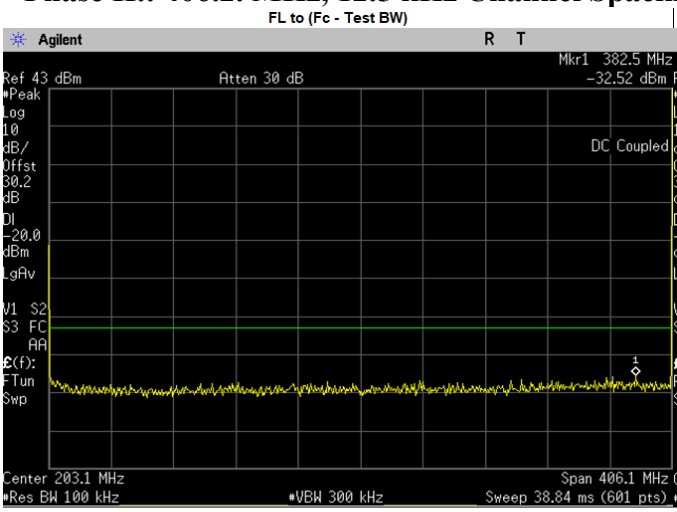
1GHz to 10Fc



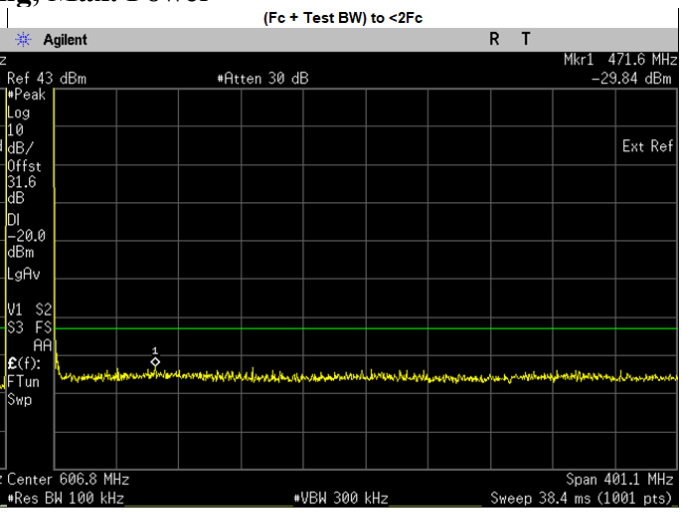
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	319.2000	-32.7300	-20.00	PASS
(Fc + Test BW) to <2Fc	391.3168	-30.4800	-20.00	PASS
2Fc to 1GHz	760.1695	-48.0200	-20.00	PASS
	760.0250	-47.8632	-20.00	PASS
1GHz to 10Fc	3134.7000	-40.6200	-20.00	PASS
	1140.0370	-46.3249	-20.00	PASS
	1520.0500	-45.3135	-20.00	PASS
	1900.0620	-44.6431	-20.00	PASS
	2280.0750	-45.1913	-20.00	PASS
	2660.0880	-44.4183	-20.00	PASS
	3040.1000	-43.9191	-20.00	PASS
	3420.1130	-43.9475	-20.00	PASS
	3800.1250	-43.1399	-20.00	PASS

Phase II.: 406.2. MHz, 12.5 kHz Channel Spacing, Max. Power

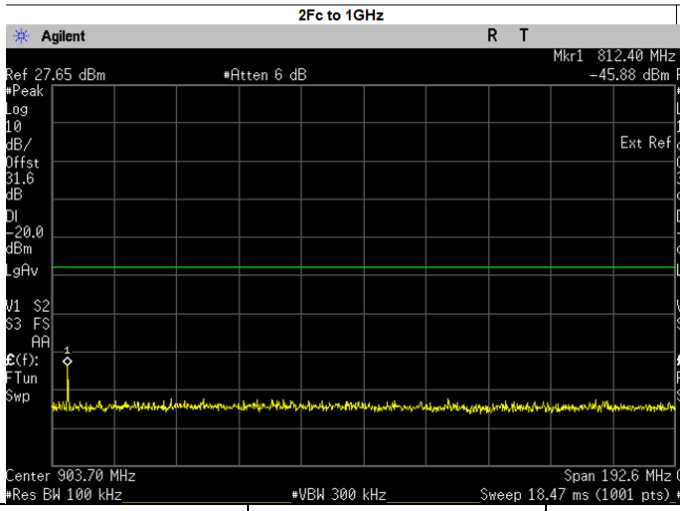
FL to (Fc - Test BW)



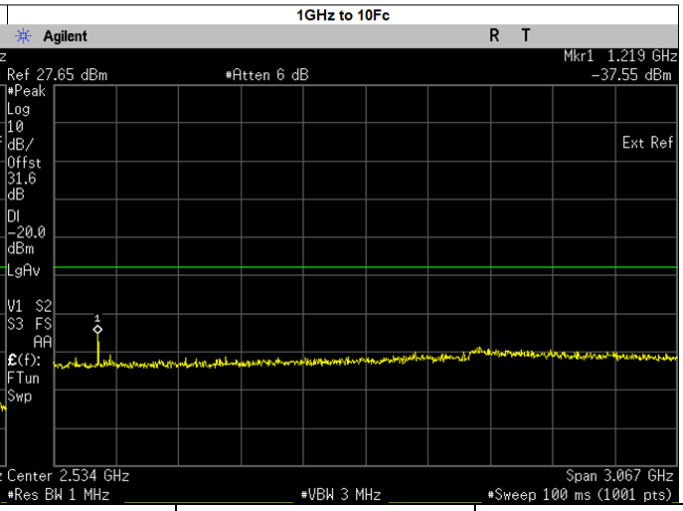
(Fc + Test BW) to <2Fc



2Fc to 1GHz

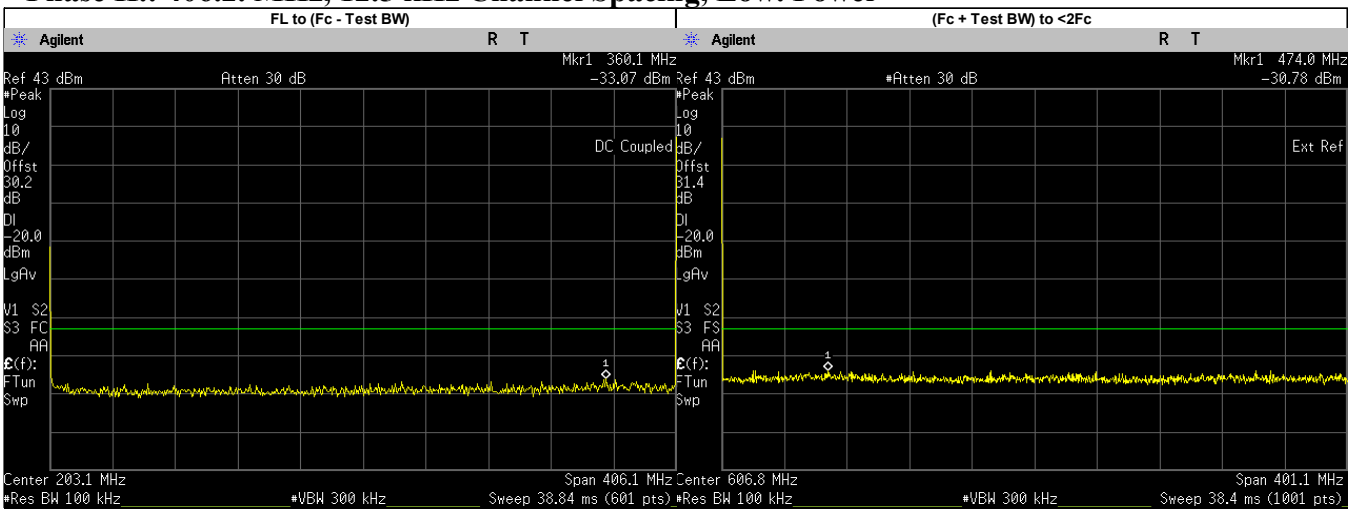


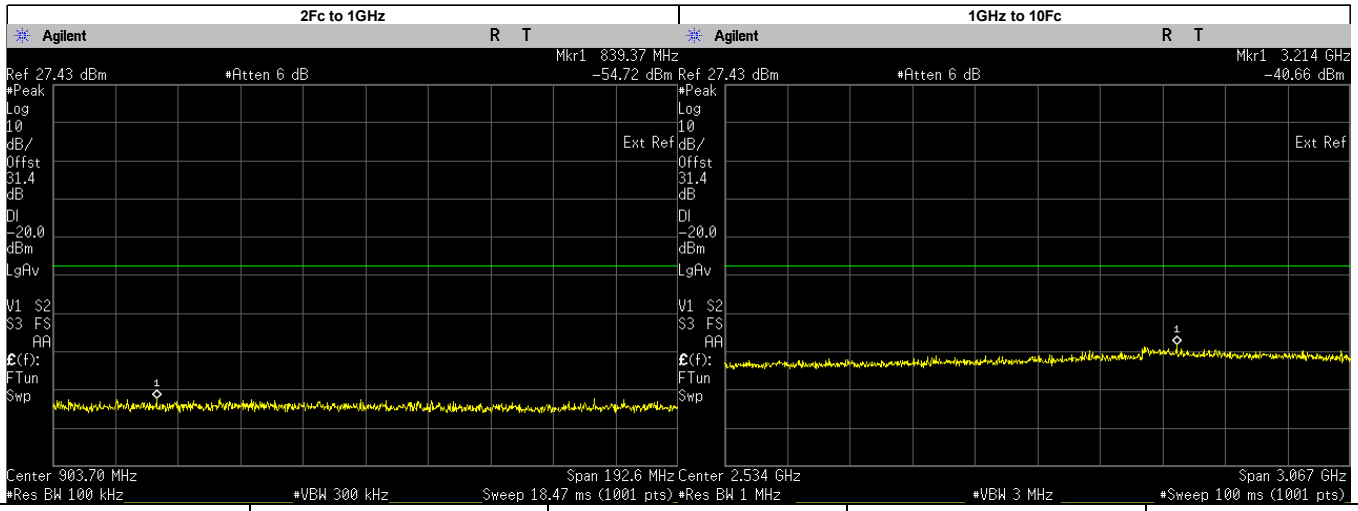
1GHz to 10Fc



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	382.5000	-32.5200	-20.00	PASS
(Fc + Test BW) to <2Fc	471.6422	-29.8400	-20.00	PASS
2Fc to 1GHz	812.2150	-52.5300	-20.00	PASS
	812.4000	-46.1425	-20.00	PASS
1GHz to 10Fc	3094.7610	-40.9800	-20.00	PASS
	1624.8000	-45.3894	-20.00	PASS
	2031.0000	-44.4587	-20.00	PASS
	2437.2000	-44.3464	-20.00	PASS
	2843.4000	-44.2434	-20.00	PASS
	3249.6000	-42.6134	-20.00	PASS
	3655.8000	-43.1010	-20.00	PASS
	4062.0000	-43.7549	-20.00	PASS
	1218.6000	-38.6641	-20.00	PASS

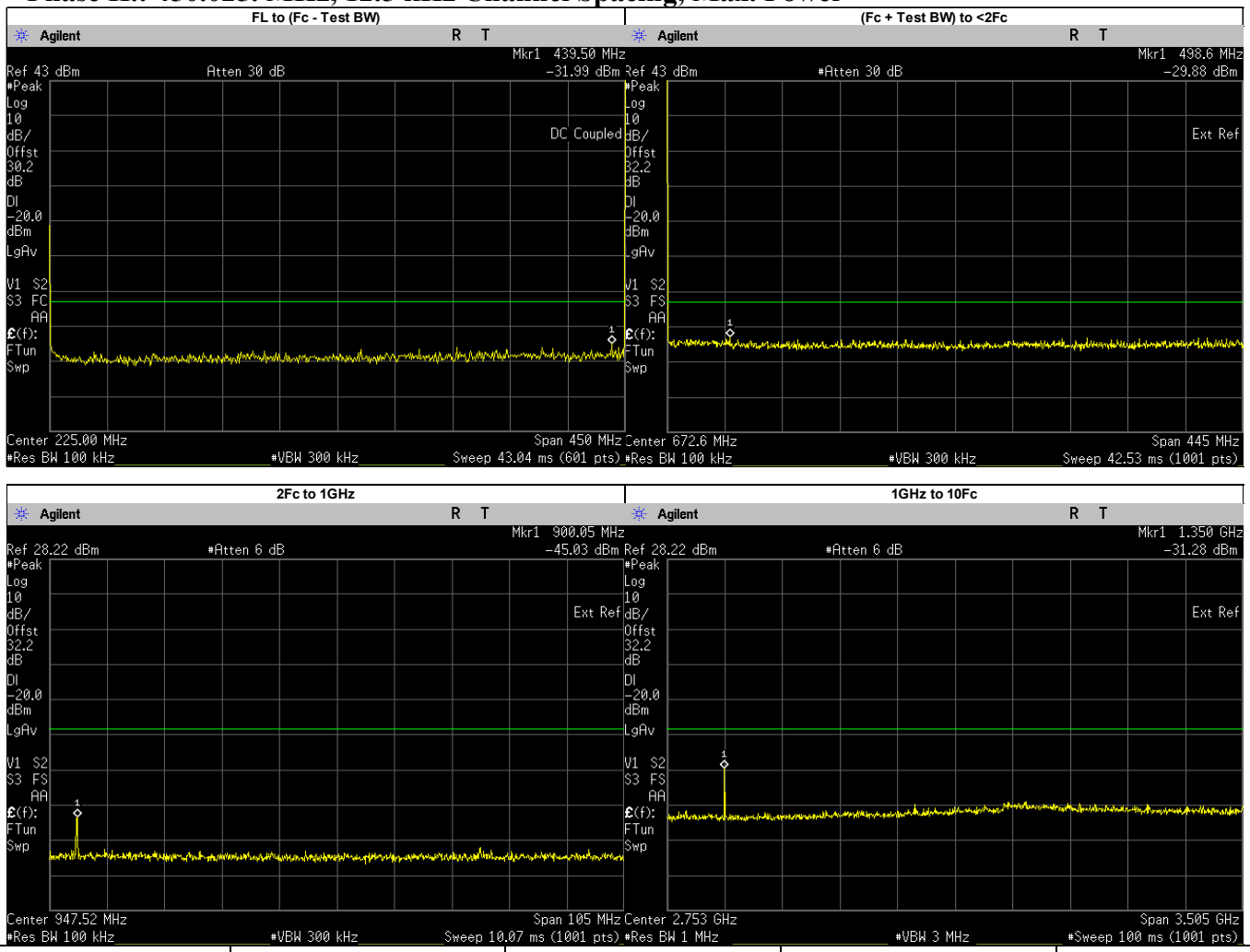
Phase II.: 406.2. MHz, 12.5 kHz Channel Spacing, Low. Power





Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	360.1000	-33.0700	-20.00	PASS
(Fc + Test BW) to <2Fc	474.0490	-30.7800	-20.00	PASS
2Fc to 1GHz	839.3716	-54.7200	-20.00	PASS
	812.4000	-55.2947	-20.00	PASS
1GHz to 10Fc	3214.3740	-40.6600	-20.00	PASS
	1218.6000	-46.1380	-20.00	PASS
	1624.8000	-45.2591	-20.00	PASS
	2031.0000	-45.4357	-20.00	PASS
	2437.2000	-44.9963	-20.00	PASS
	2843.4000	-44.6313	-20.00	PASS
	3249.6000	-43.4911	-20.00	PASS
	3655.8000	-43.5787	-20.00	PASS
	4062.0000	-44.6602	-20.00	PASS

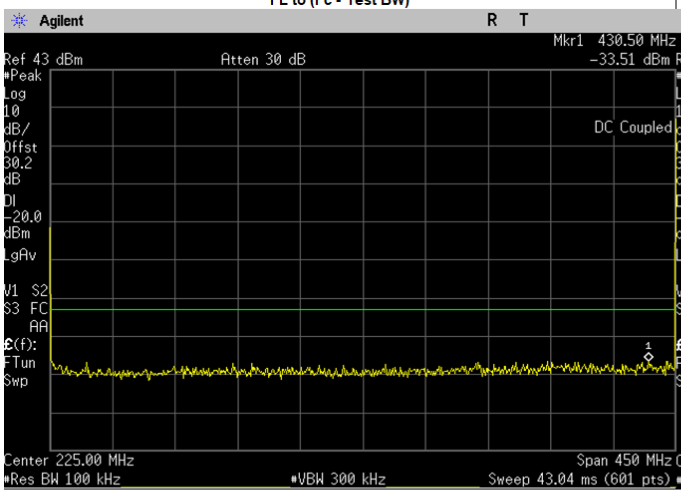
Phase II.: 450.025. MHz, 12.5 kHz Channel Spacing, Max. Power



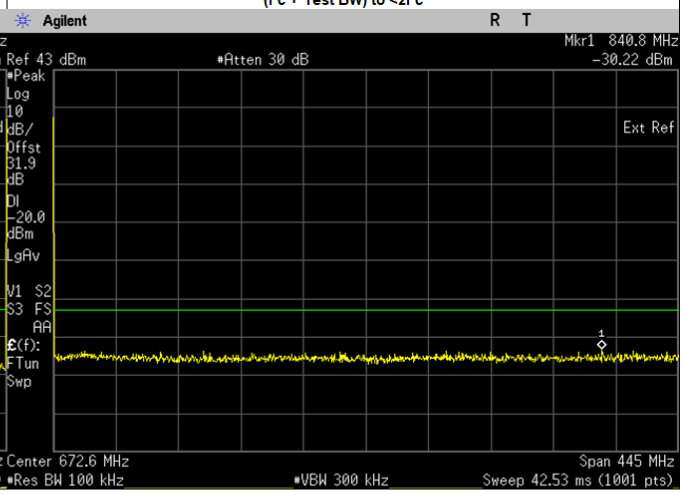
Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	439.5000	-33.3350	-20.00	PASS
(Fc + Test BW) to <2Fc	498.5833	-29.8800	-20.00	PASS
2Fc to 1GHz	899.9827	-45.3500	-20.00	PASS
	900.0500	-45.1439	-20.00	PASS
1GHz to 10Fc	3187.2760	-40.8400	-20.00	PASS
	1800.1000	-44.8176	-20.00	PASS
	2250.1250	-44.8543	-20.00	PASS
	2700.1500	-43.6737	-20.00	PASS
	3150.1750	-42.2812	-20.00	PASS
	3600.2000	-43.1943	-20.00	PASS
	4050.2250	-43.3517	-20.00	PASS
	4500.2500	-42.8615	-20.00	PASS
	1350.0750	-31.2800	-20.00	PASS

Phase II.: 450.025. MHz, 12.5 kHz Channel Spacing, Low. Power

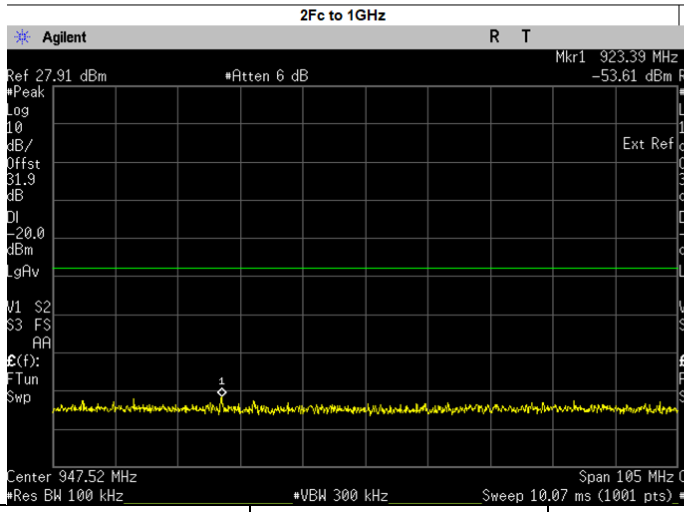
FL to (Fc - Test BW)



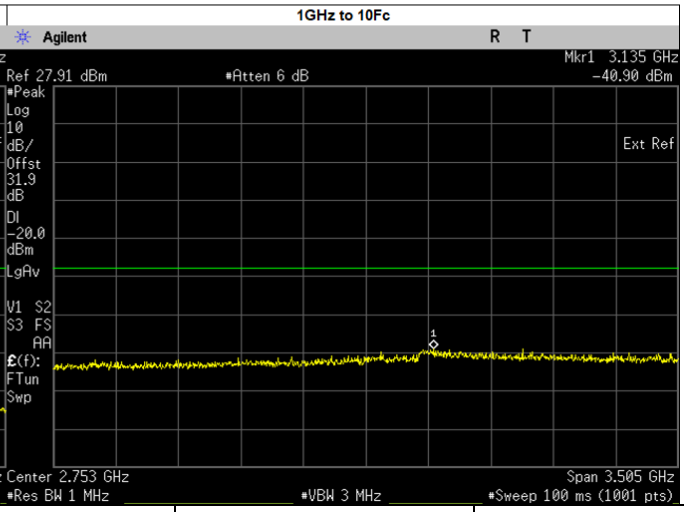
(Fc + Test BW) to <2Fc



2Fc to 1GHz

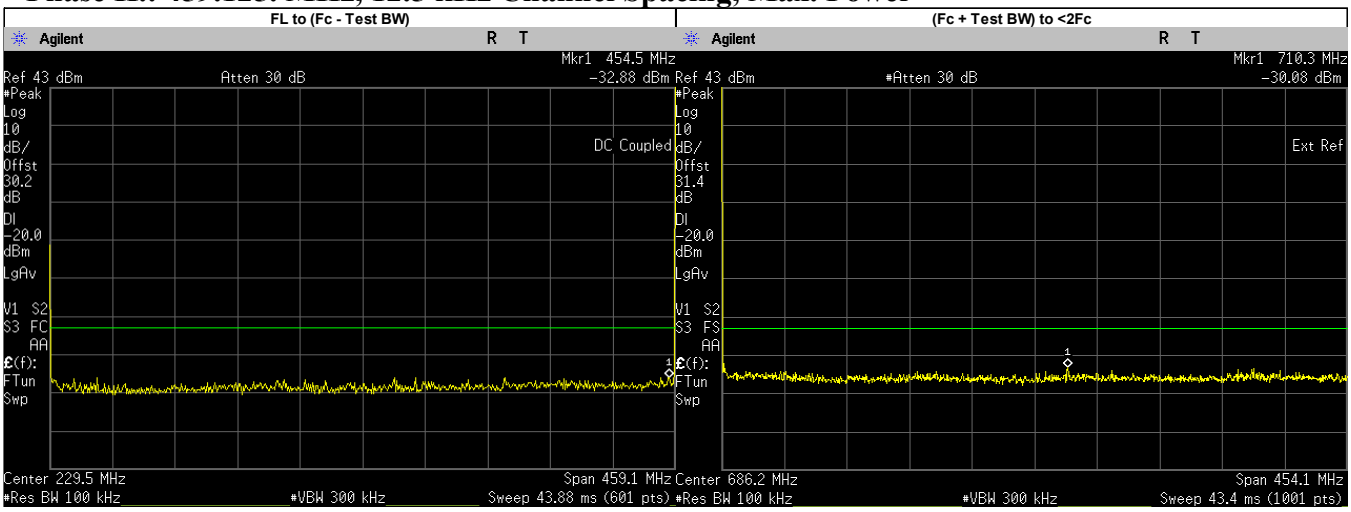


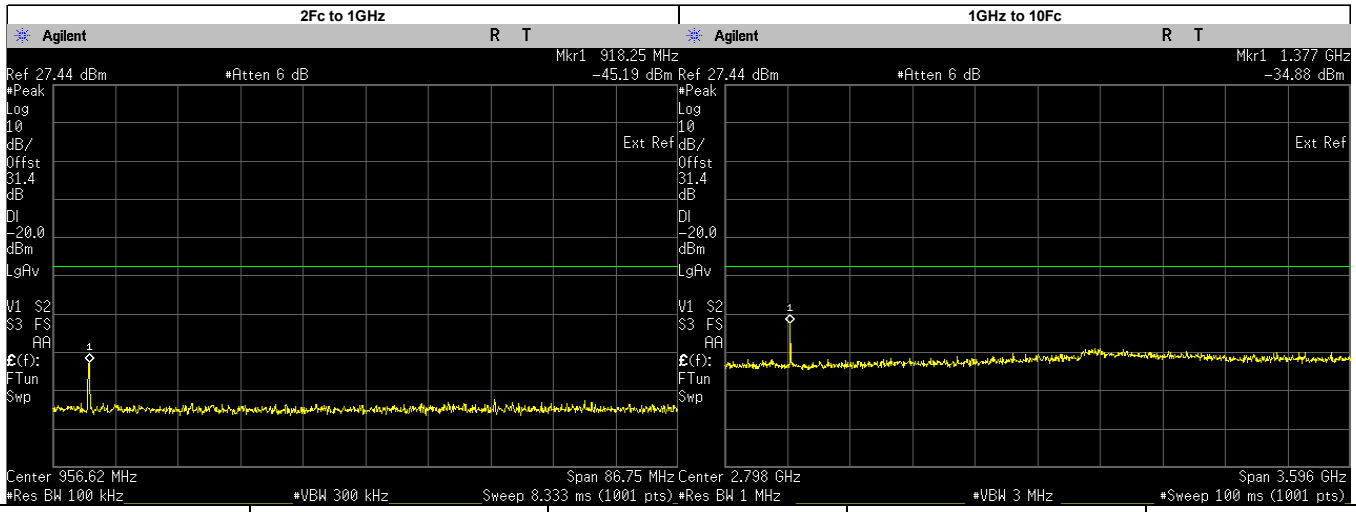
1GHz to 10Fc



Frequency Range	Highest Spur Frequency (MHz)	Spurious Level (dBm)	Failing Limit (dBm)	Results
FL to (Fc - Test BW)	430.5000	-33.5100	-20.00	PASS
(Fc + Test BW) to <2Fc	840.7639	-30.2200	-20.00	PASS
2Fc to 1GHz	923.3865	-53.6100	-20.00	PASS
	900.0500	-54.5633	-20.00	PASS
1GHz to 10Fc	3134.6970	-40.9000	-20.00	PASS
	1350.0750	-44.8909	-20.00	PASS
	1800.1000	-45.3647	-20.00	PASS
	2250.1250	-44.4225	-20.00	PASS
	2700.1500	-43.5961	-20.00	PASS
	3150.1750	-42.7614	-20.00	PASS
	3600.2000	-43.4952	-20.00	PASS
	4050.2250	-43.9139	-20.00	PASS
	4500.2500	-44.0169	-20.00	PASS

Phase II.: 459.125. 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)	454.5000	-32.8800	-20.00	PASS
(Fc + Test BW) to <2Fc	710.2815	-30.0900	-20.00	PASS
2Fc to 1GHz	918.2500	-45.1900	-20.00	PASS
1GHz to 10Fc	3128.9800	-41.3600	-20.00	PASS
	1836.5000	-45.6042	-20.00	PASS
	2295.6250	-45.6490	-20.00	PASS
	2754.7500	-44.0162	-20.00	PASS
	3213.8750	-43.0922	-20.00	PASS
	3673.0000	-43.7814	-20.00	PASS
	4132.1250	-44.1930	-20.00	PASS
	4591.2500	-43.7432	-20.00	PASS
	1377.3750	-34.8800	-20.00	PASS