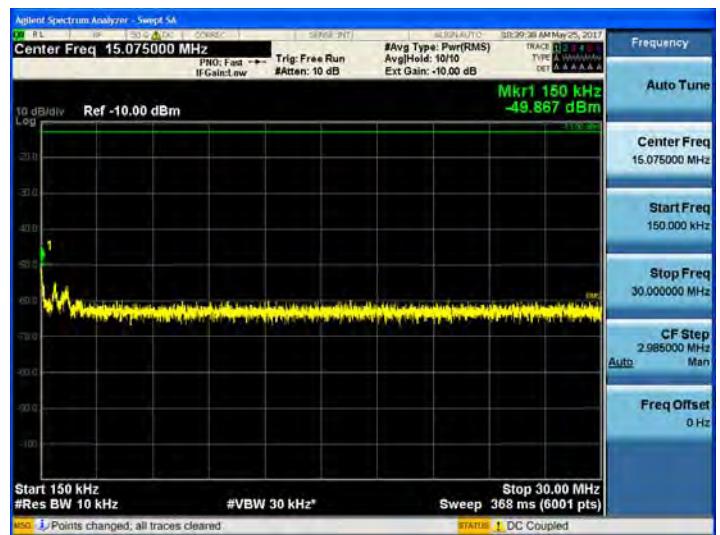
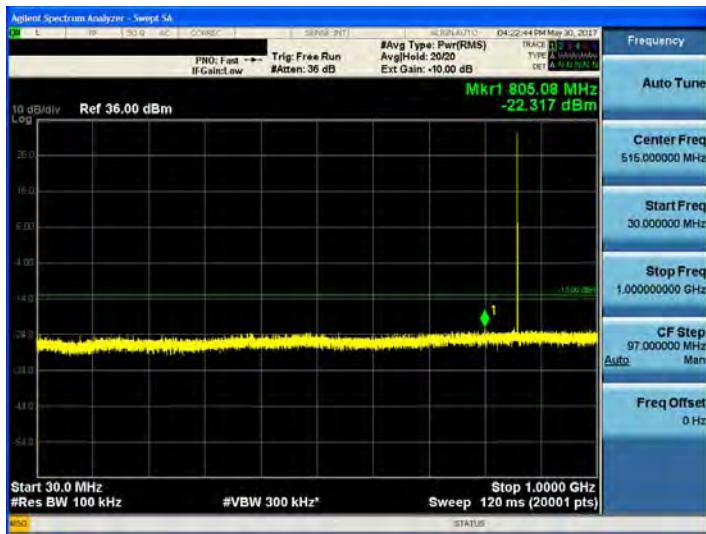
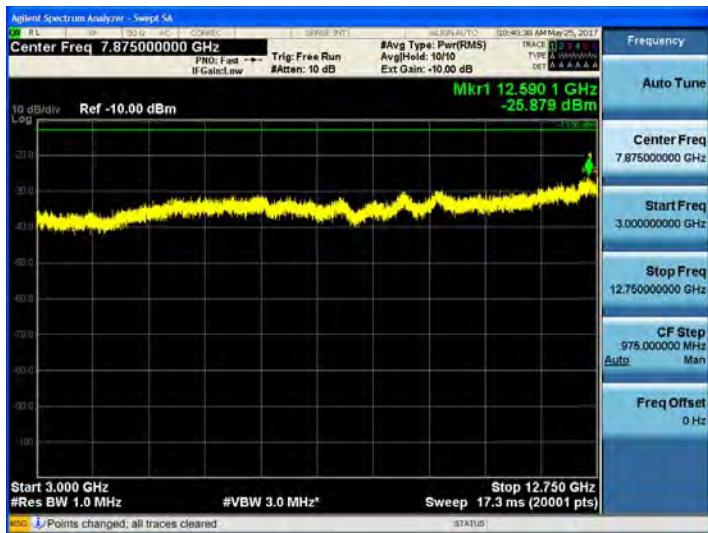
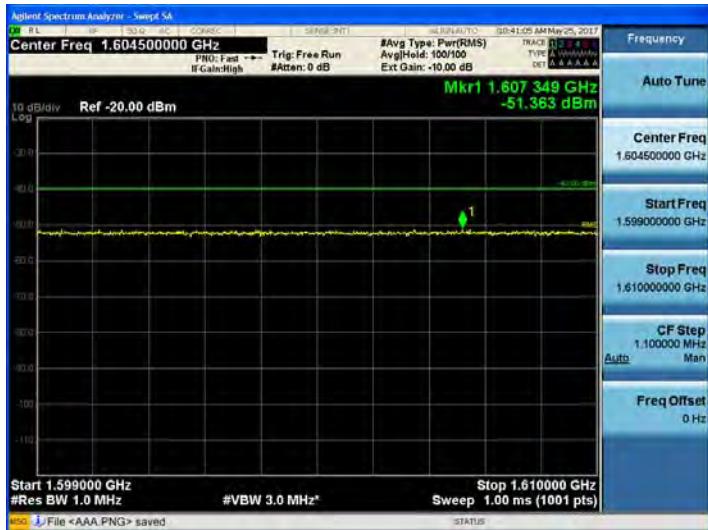


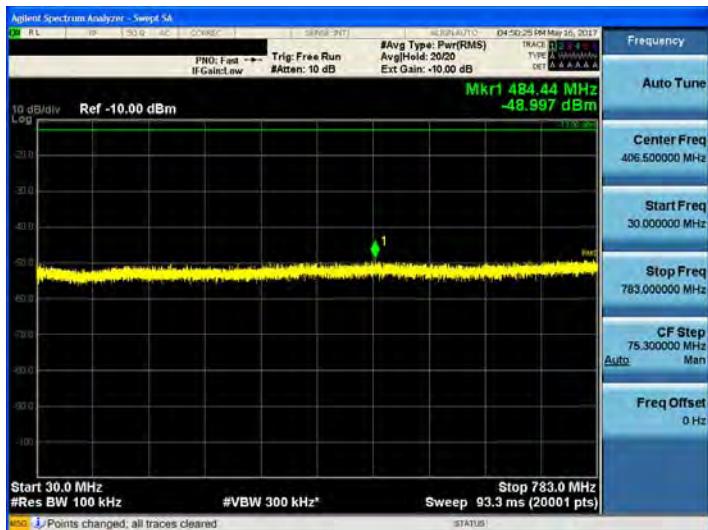
**[Downlink\_High]**
**9 kHz ~ 150 kHz****150 kHz ~ 30 MHz****30 MHz ~ 1 GHz****1 GHz ~ 3 GHz**

**3 GHz ~ 12.75 GHz****1599 MHz ~ 1610 MHz (1)****1599 MHz ~ 1610 MHz (2)**

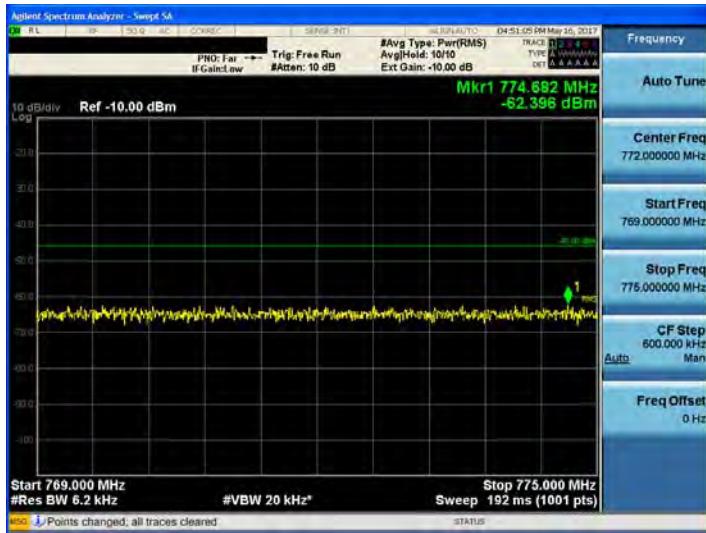
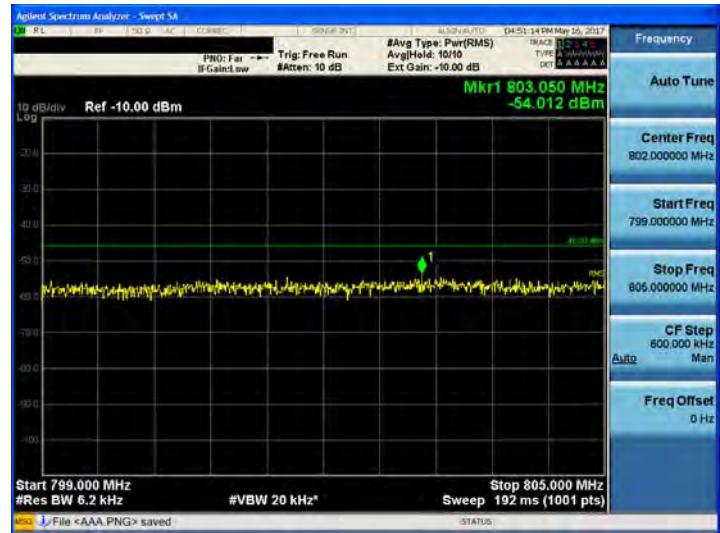
## FirstNet LTE 10 MHz (788 – 798 MHz)\_UL

### [Uplink\_Middle]

**9 kHz ~ 150 kHz**
**150 kHz ~ 30 MHz**

**30 MHz ~ 783 MHz**
**783 MHz ~ 787.9 MHz**


**798.1 MHz ~ 803 MHz****803 MHz ~ 1 GHz****1 GHz ~ 3 GHz****3 GHz ~ 12.75 GHz**

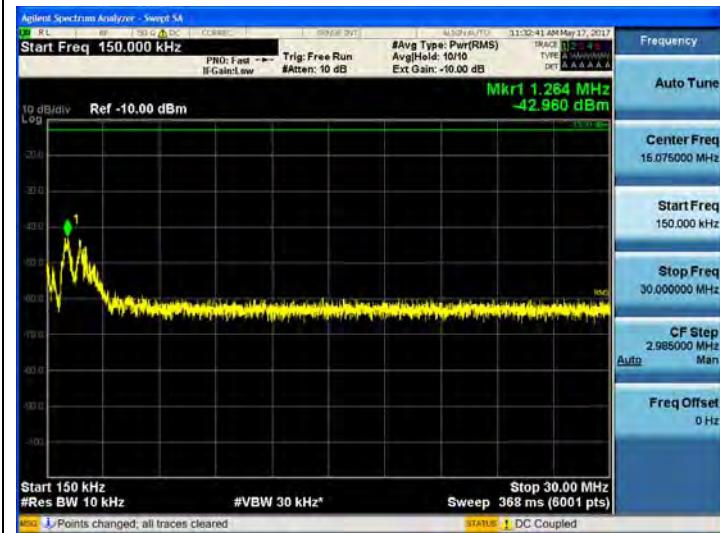
**769 MHz ~ 775 MHz****799 MHz ~ 805 MHz****1599 MHz ~ 1610 MHz (1)****1599 MHz ~ 1610 MHz (2)**

## PS 700 APCO 25\_12.5 kHz (799 – 805 MHz)\_UL

[Uplink\_Low]

9 kHz ~ 150 kHz

150 kHz ~ 30 MHz



30 MHz ~ 1 GHz

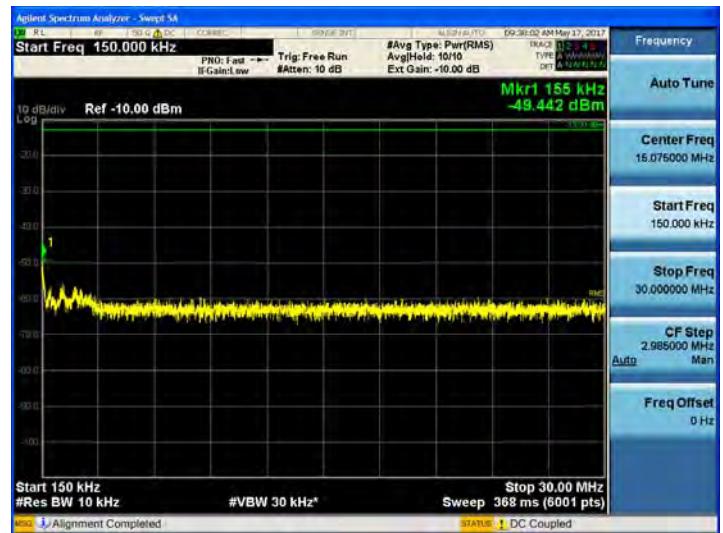
1 GHz ~ 3 GHz



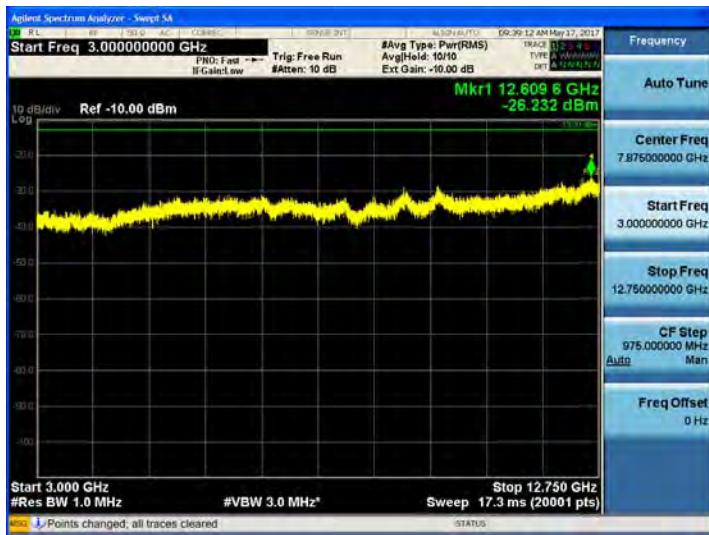
**3 GHz ~ 12.75 GHz****1599 MHz ~ 1610 MHz (1)****1599 MHz ~ 1610 MHz (2)**

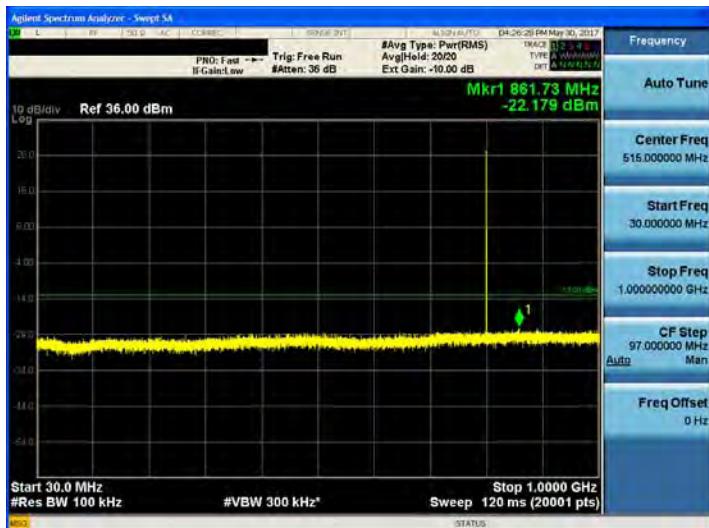
### [Uplink\_Middle]

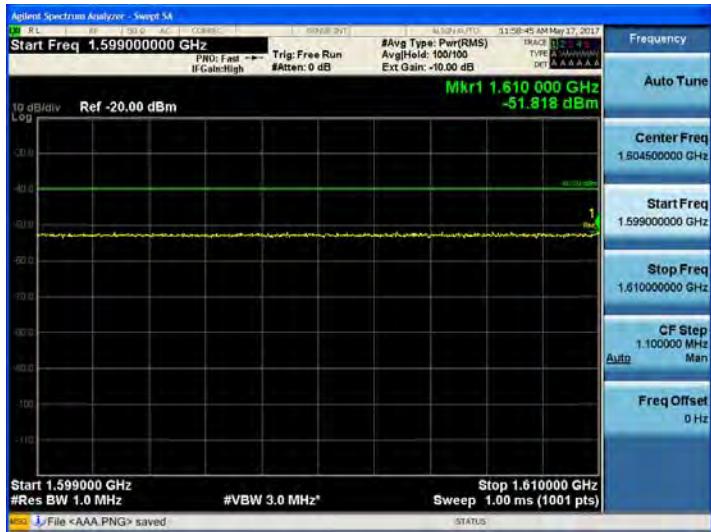
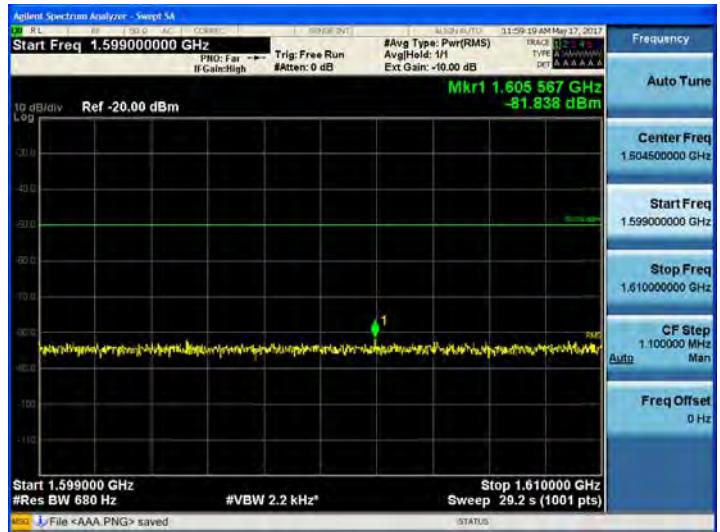
**9 kHz ~ 150 kHz**

**150 kHz ~ 30 MHz**

**30 MHz ~ 1 GHz**

**1 GHz ~ 3 GHz**


**3 GHz ~ 12.75 GHz****1599 MHz ~ 1610 MHz (1)****1599 MHz ~ 1610 MHz (2)**

**[Uplink\_High]**
**9 kHz ~ 150 kHz****150 kHz ~ 30 MHz****30 MHz ~ 1 GHz****1 GHz ~ 3 GHz**

**3 GHz ~ 12.75 GHz****1599 MHz ~ 1610 MHz (1)****1599 MHz ~ 1610 MHz (2)**

## PS 700 Analog FM\_25 kHz (799 – 805 MHz)\_UL

[Uplink\_Low]

9 kHz ~ 150 kHz

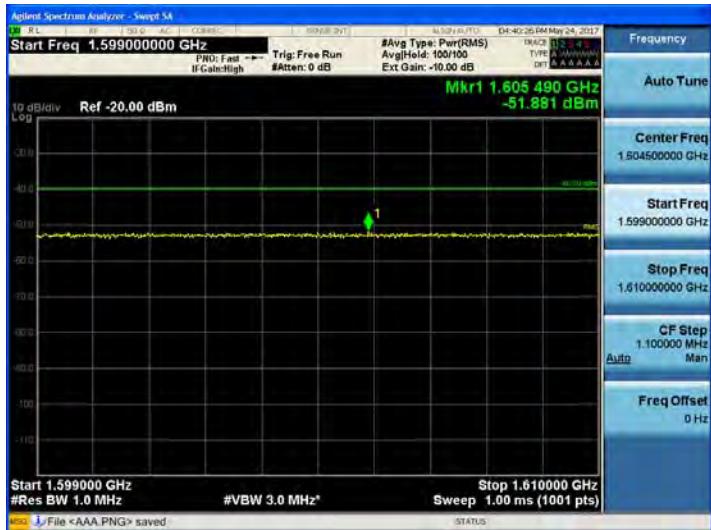
150 kHz ~ 30 MHz



30 MHz ~ 1 GHz

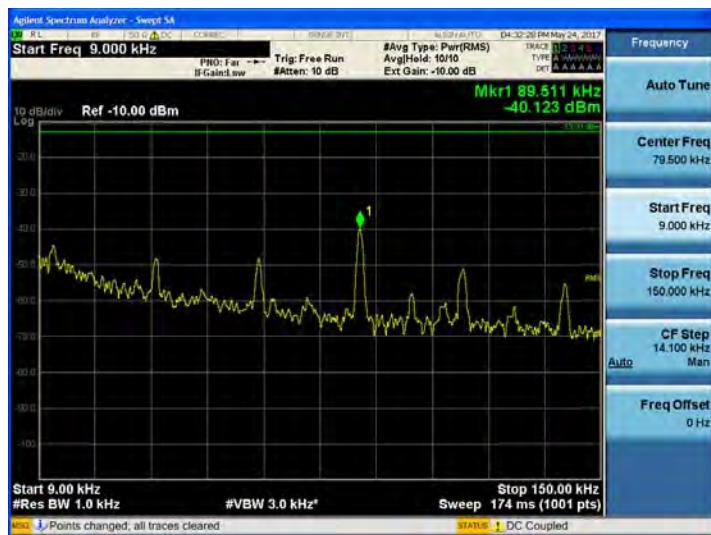
1 GHz ~ 3 GHz



**3 GHz ~ 12.75 GHz****1599 MHz ~ 1610 MHz (1)****1599 MHz ~ 1610 MHz (2)**

### [Uplink\_Middle]

9 kHz ~ 150 kHz



150 kHz ~ 30 MHz

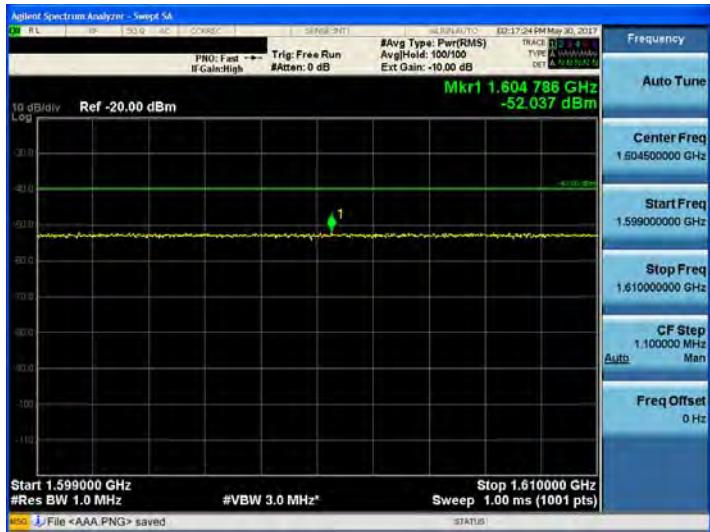


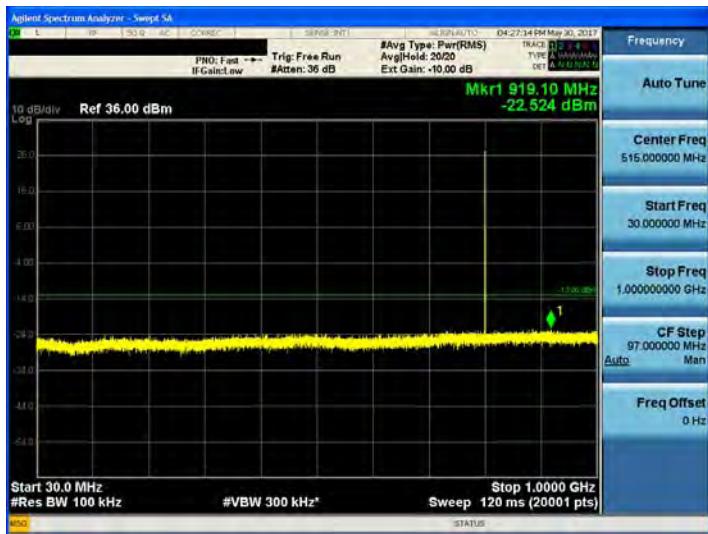
30 MHz ~ 1 GHz

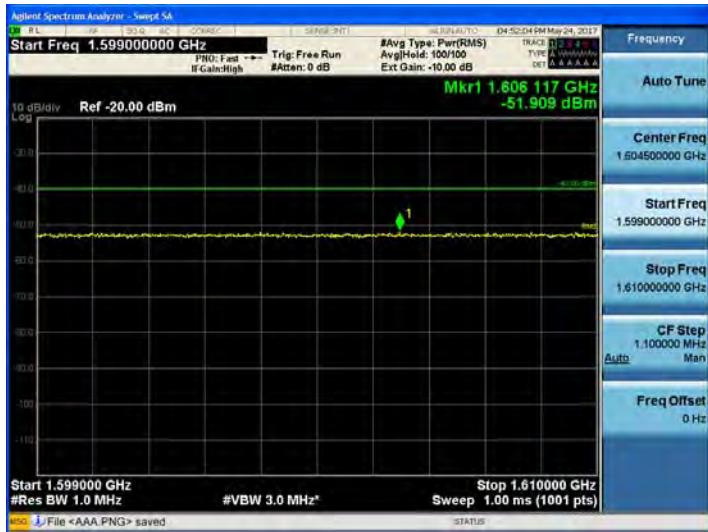


1 GHz ~ 3 GHz



**3 GHz ~ 12.75 GHz****1599 MHz ~ 1610 MHz (1)****1599 MHz ~ 1610 MHz (2)**

**[Uplink\_High]**
**9 kHz ~ 150 kHz****150 kHz ~ 30 MHz****30 MHz ~ 1 GHz****1 GHz ~ 3 GHz**

**3 GHz ~ 12.75 GHz****1599 MHz ~ 1610 MHz (1)****1599 MHz ~ 1610 MHz (2)**

## PS 800 APCO 25\_12.5 kHz (806 – 816 MHz)\_UL

[Uplink\_Low]

9 kHz ~ 150 kHz

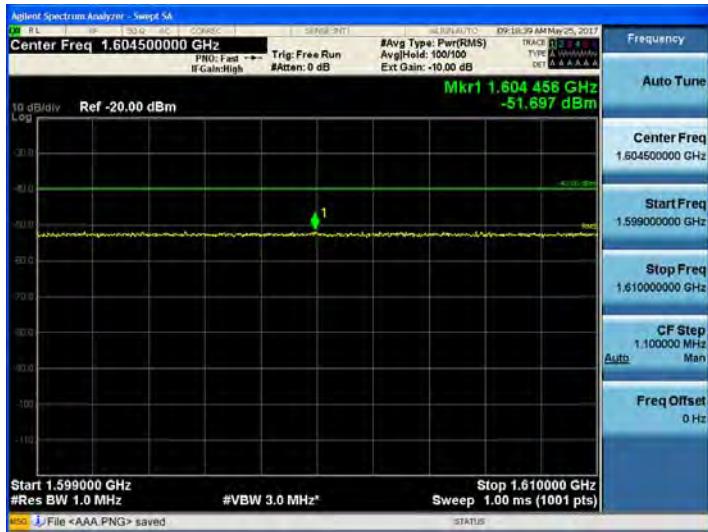
150 kHz ~ 30 MHz



30 MHz ~ 1 GHz

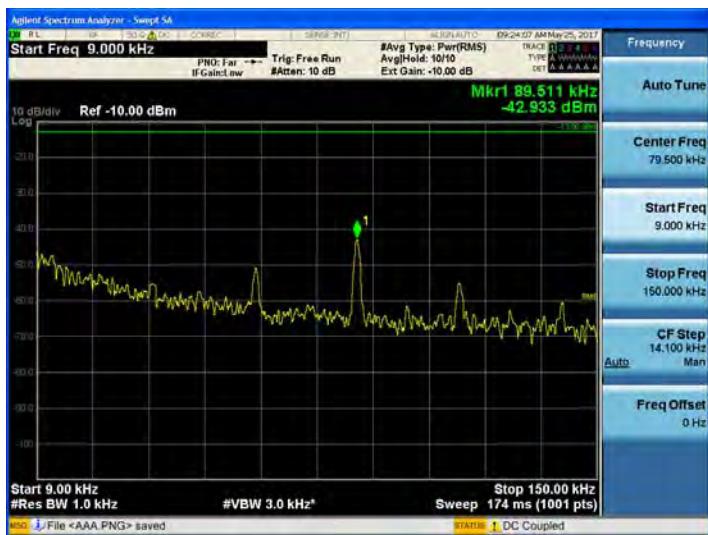
1 GHz ~ 3 GHz



**3 GHz ~ 12.75 GHz****1599 MHz ~ 1610 MHz (1)****1599 MHz ~ 1610 MHz (2)**

### [Uplink\_Middle]

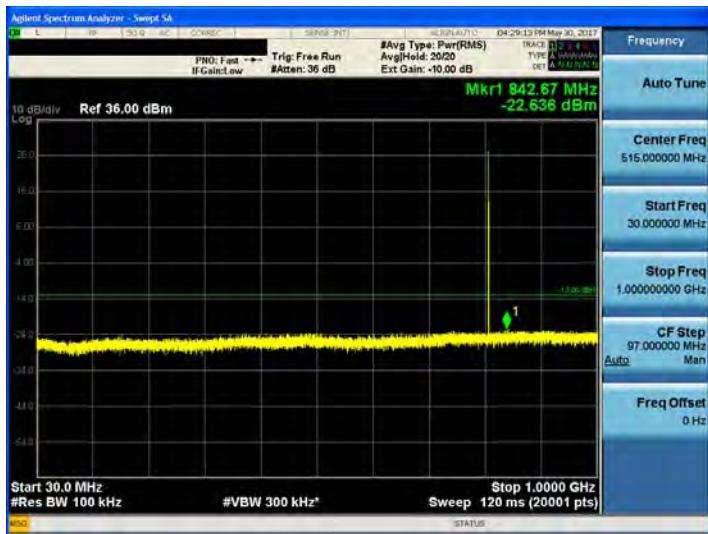
9 kHz ~ 150 kHz



150 kHz ~ 30 MHz

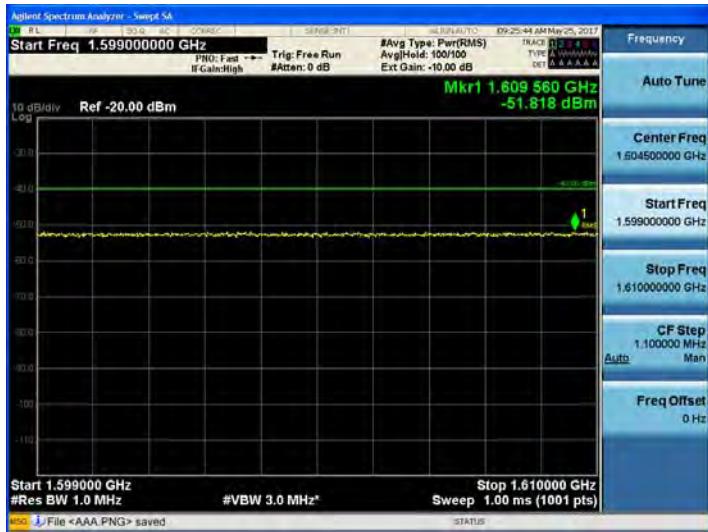


30 MHz ~ 1 GHz



1 GHz ~ 3 GHz



**3 GHz ~ 12.75 GHz****1599 MHz ~ 1610 MHz (1)****1599 MHz ~ 1610 MHz (2)**

**[Uplink\_High]**
**9 kHz ~ 150 kHz****150 kHz ~ 30 MHz****30 MHz ~ 1 GHz****1 GHz ~ 3 GHz**

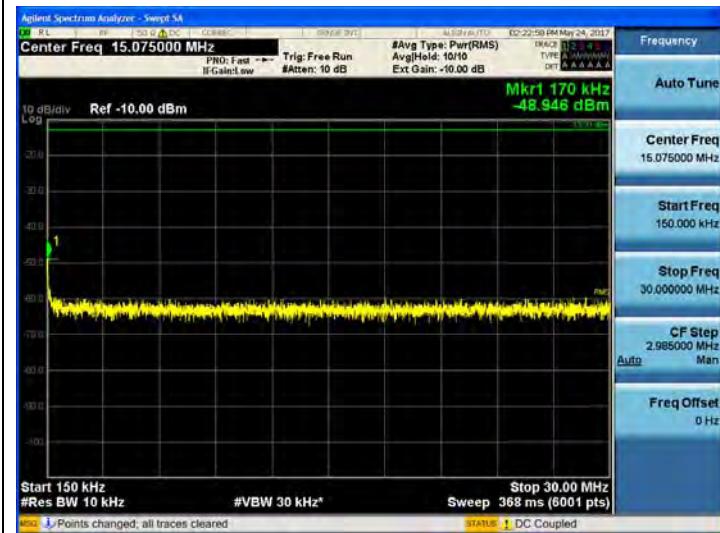
**3 GHz ~ 12.75 GHz****1599 MHz ~ 1610 MHz (1)****1599 MHz ~ 1610 MHz (2)**

## PS 800 Analog FM\_25 kHz (806 – 816 MHz)\_UL

[Uplink\_Low]

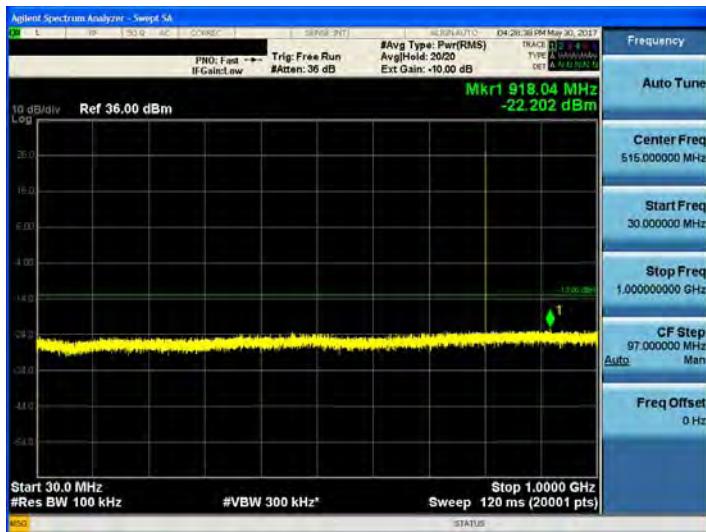
9 kHz ~ 150 kHz

150 kHz ~ 30 MHz



30 MHz ~ 1 GHz

1 GHz ~ 3 GHz



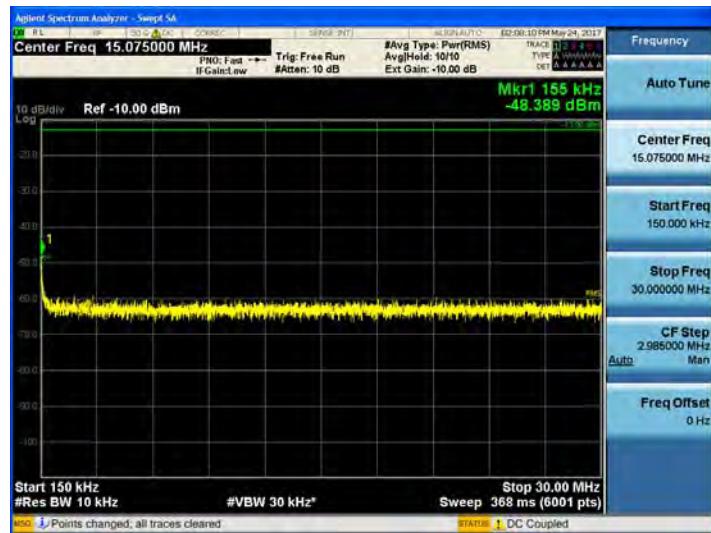
**3 GHz ~ 12.75 GHz****1599 MHz ~ 1610 MHz (1)****1599 MHz ~ 1610 MHz (2)**

### [Uplink\_Middle]

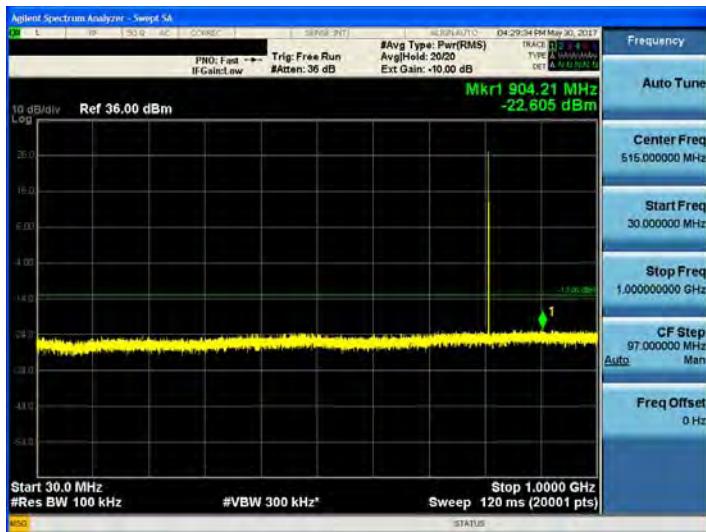
9 kHz ~ 150 kHz



150 kHz ~ 30 MHz

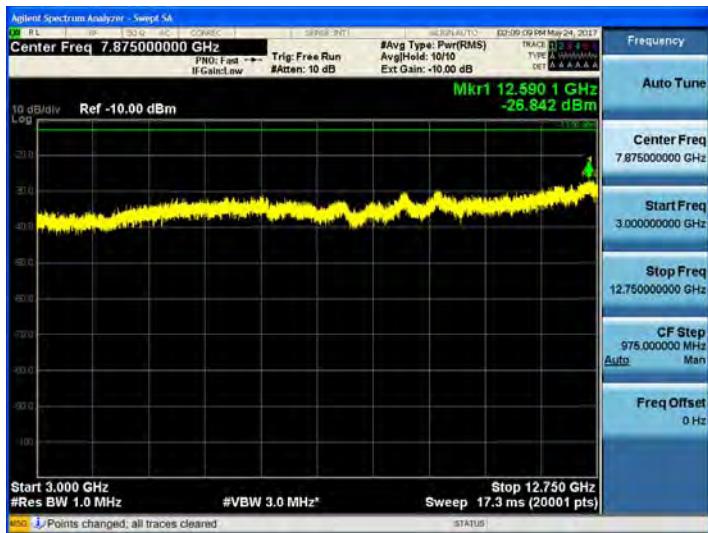
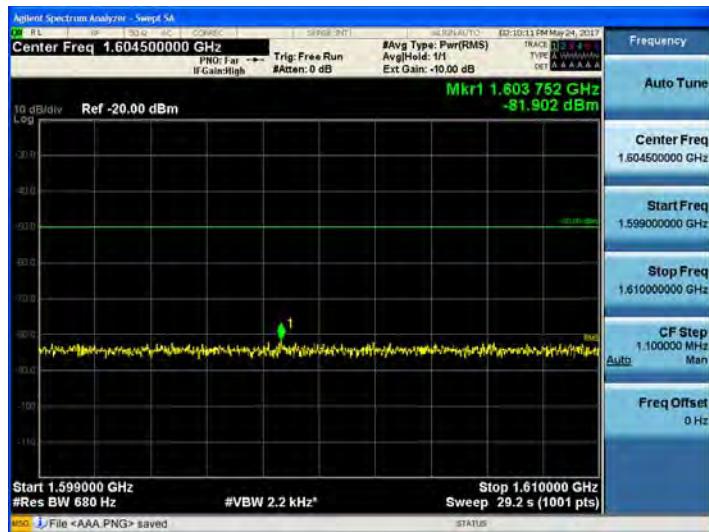


30 MHz ~ 1 GHz



1 GHz ~ 3 GHz



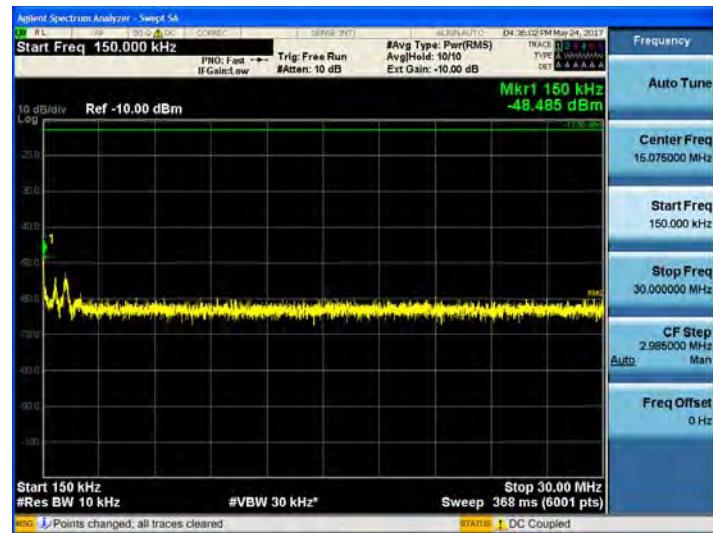
**3 GHz ~ 12.75 GHz****1599 MHz ~ 1610 MHz (1)****1599 MHz ~ 1610 MHz (2)**

### [Uplink \_High]

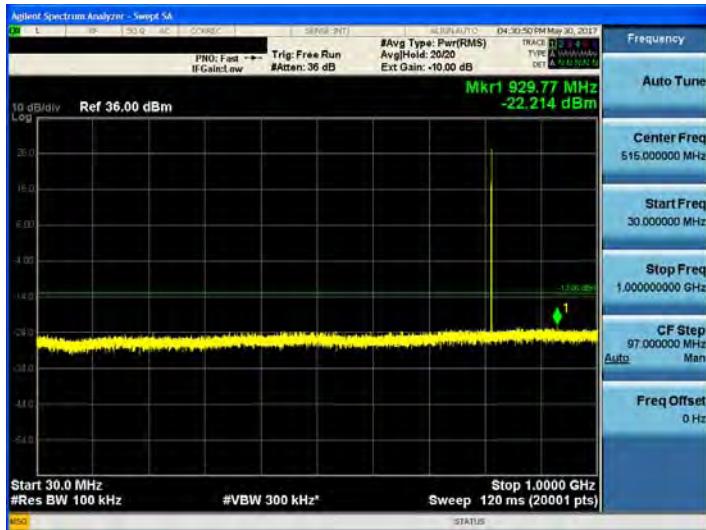
9 kHz ~ 150 kHz



150 kHz ~ 30 MHz

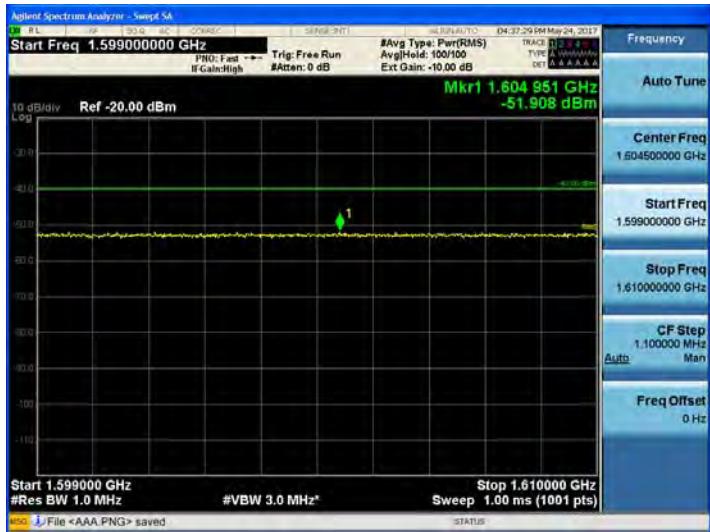


30 MHz ~ 1 GHz



1 GHz ~ 3 GHz



**3 GHz ~ 12.75 GHz****1599 MHz ~ 1610 MHz (1)****1599 MHz ~ 1610 MHz (2)**

## Intermodulation Spurious Emissions

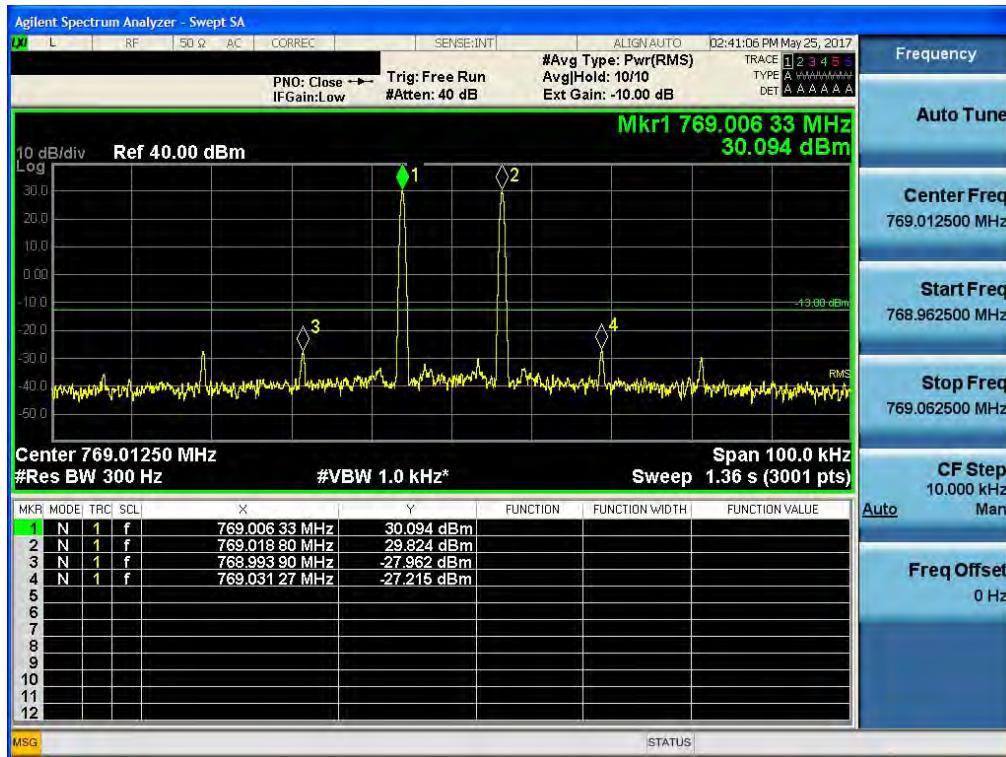
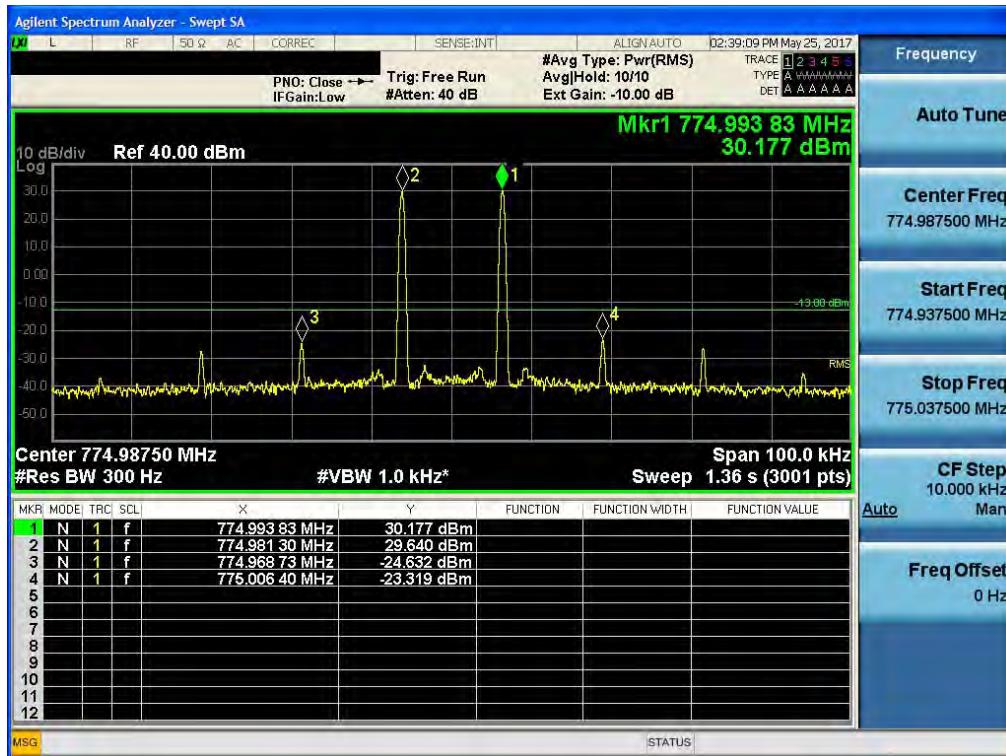
### FirstNet LTE 10 MHz (758 – 768 MHz)\_DL

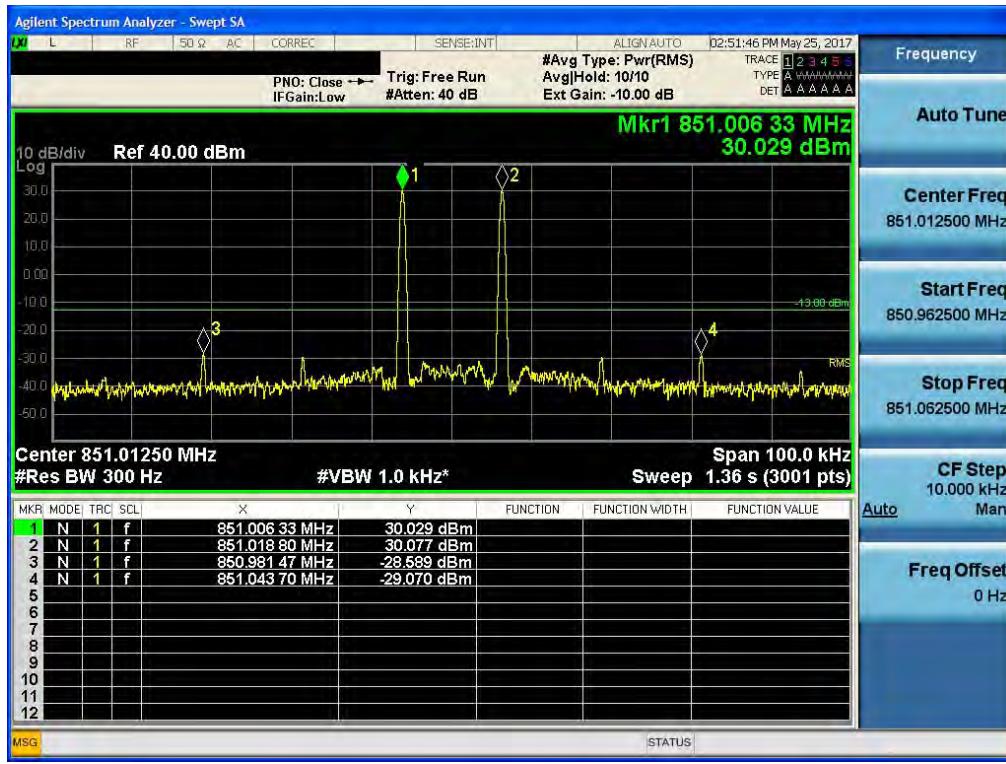
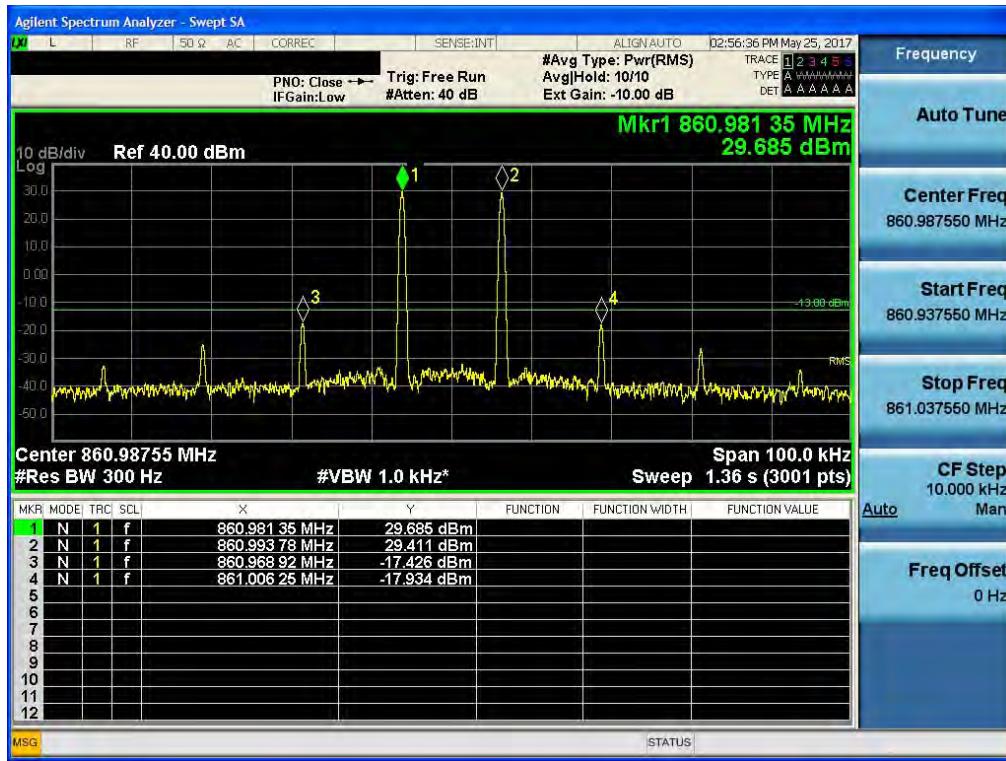
#### [Downlink - Low]



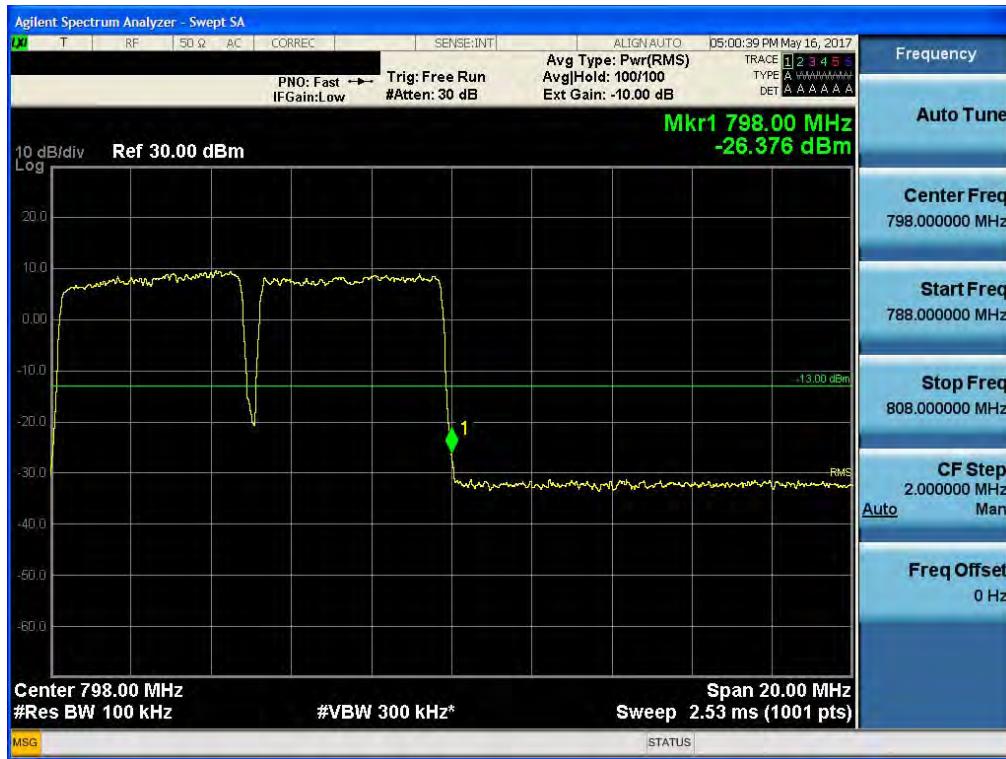
#### [Downlink - High]

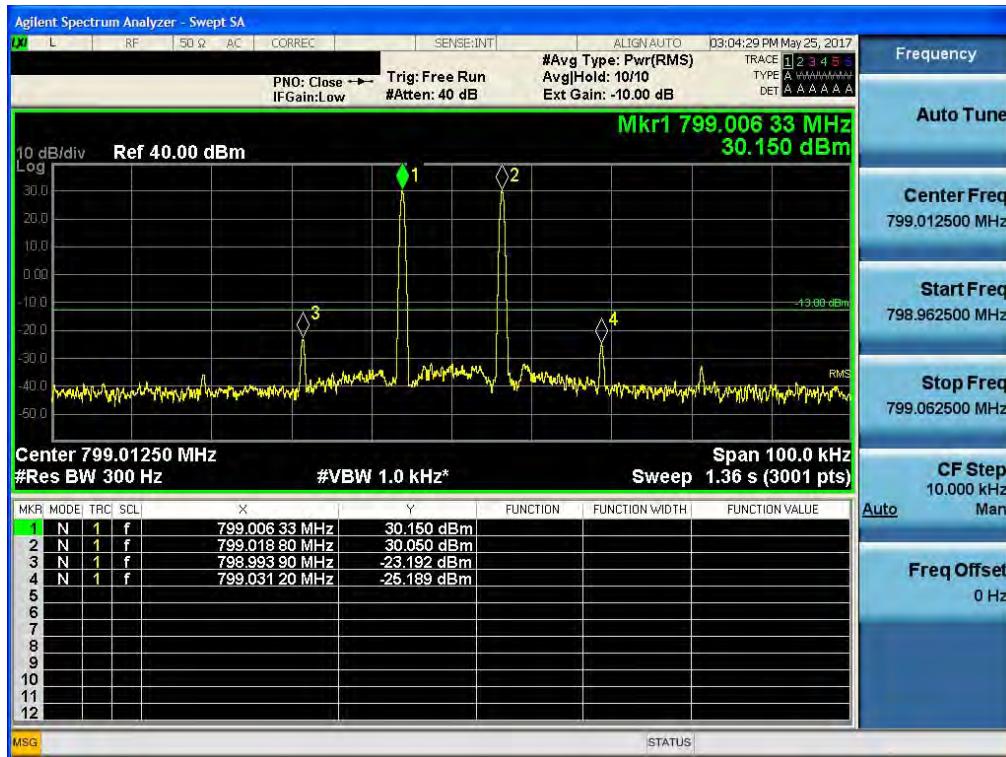
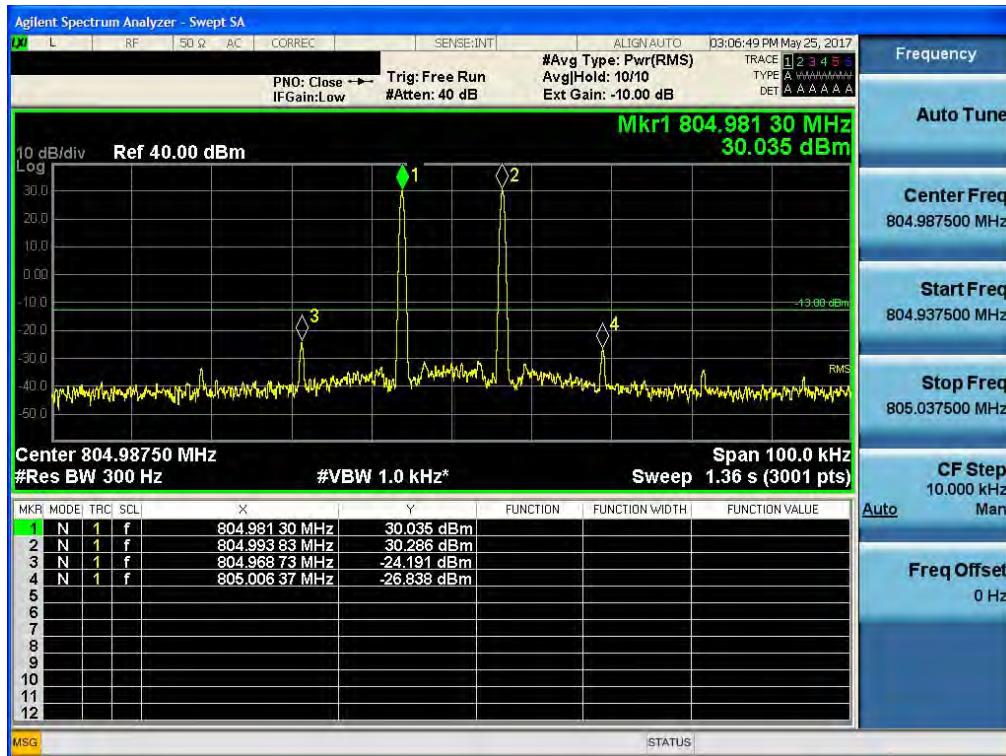


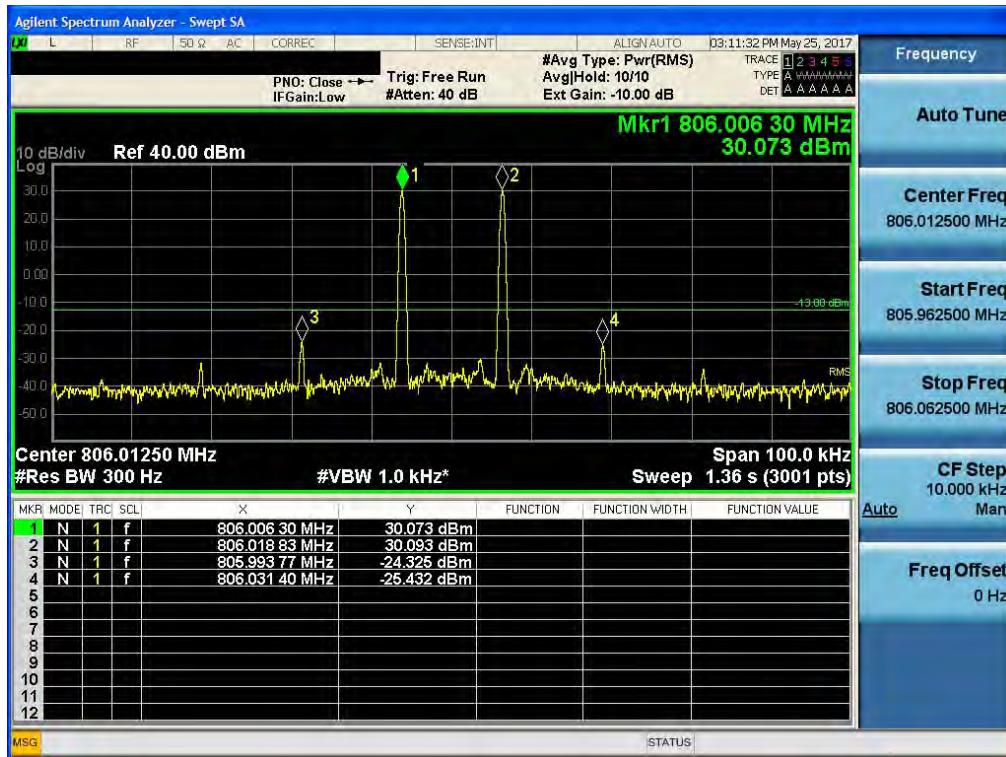
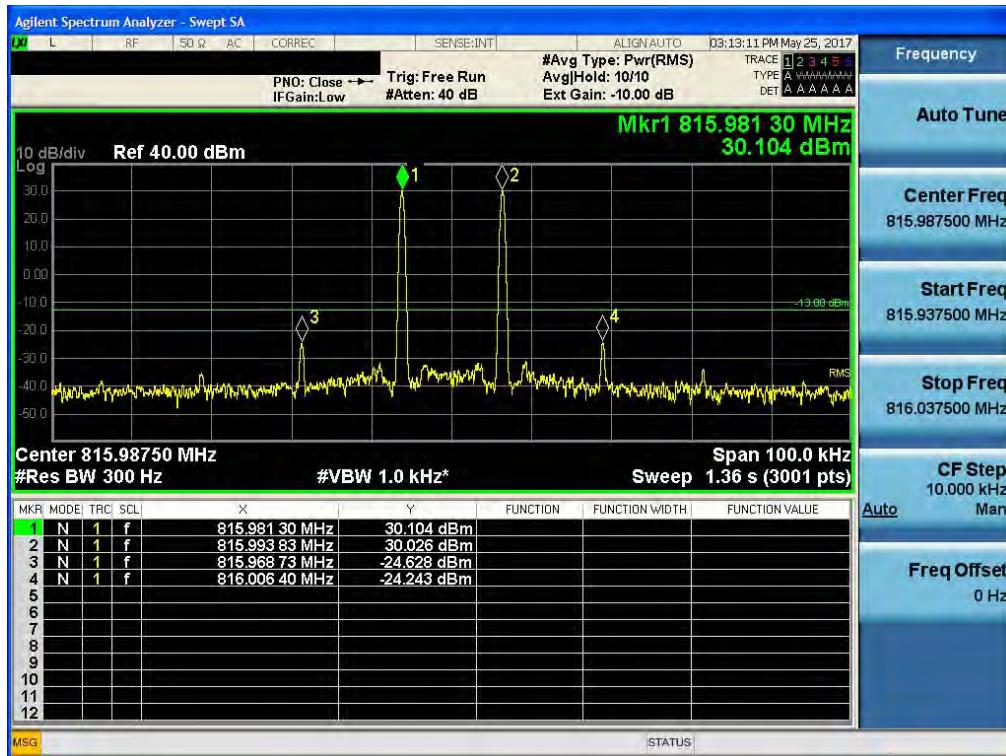
**PS 700 (769 – 775 MHz)\_DL****[Downlink - Low]****[Downlink - High]**

**PS 800 (851 – 861 MHz)\_DL****[Downlink - Low]****[Downlink - High]**

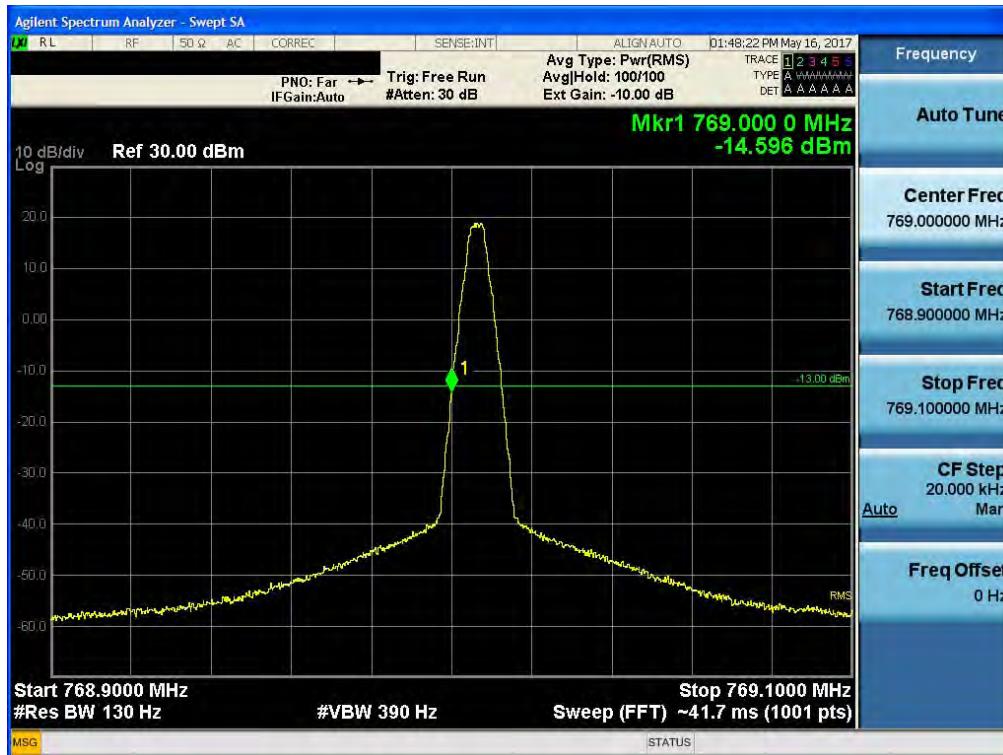
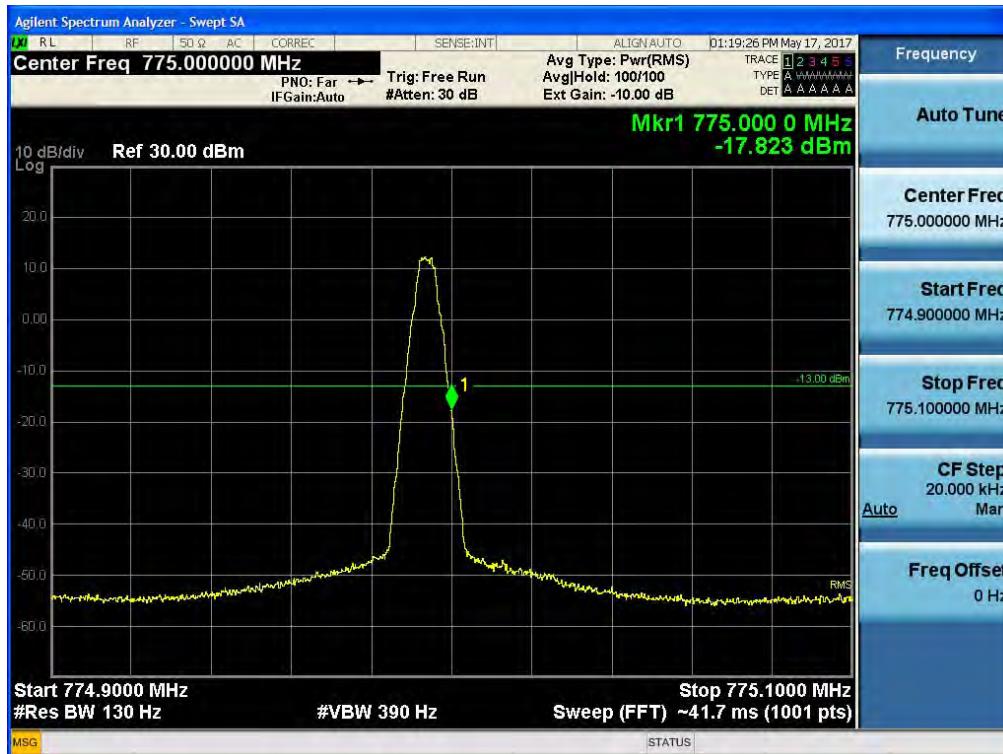
**FirstNet LTE 10 MHz (788 – 798 MHz)\_UL**
**[Uplink - Low]**

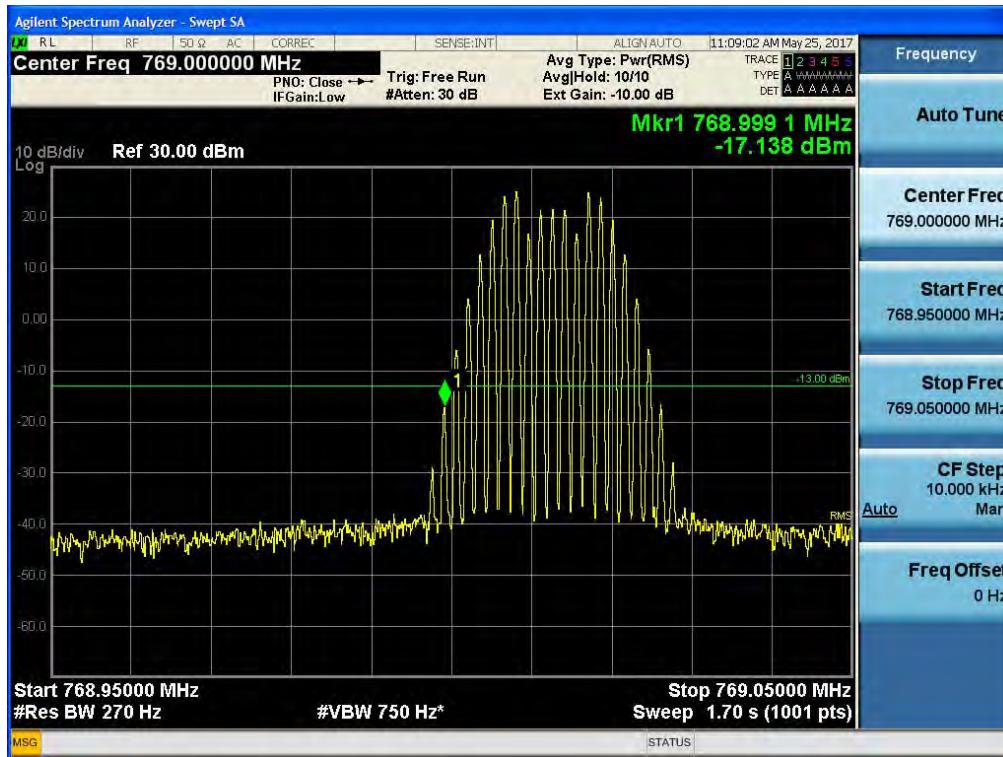
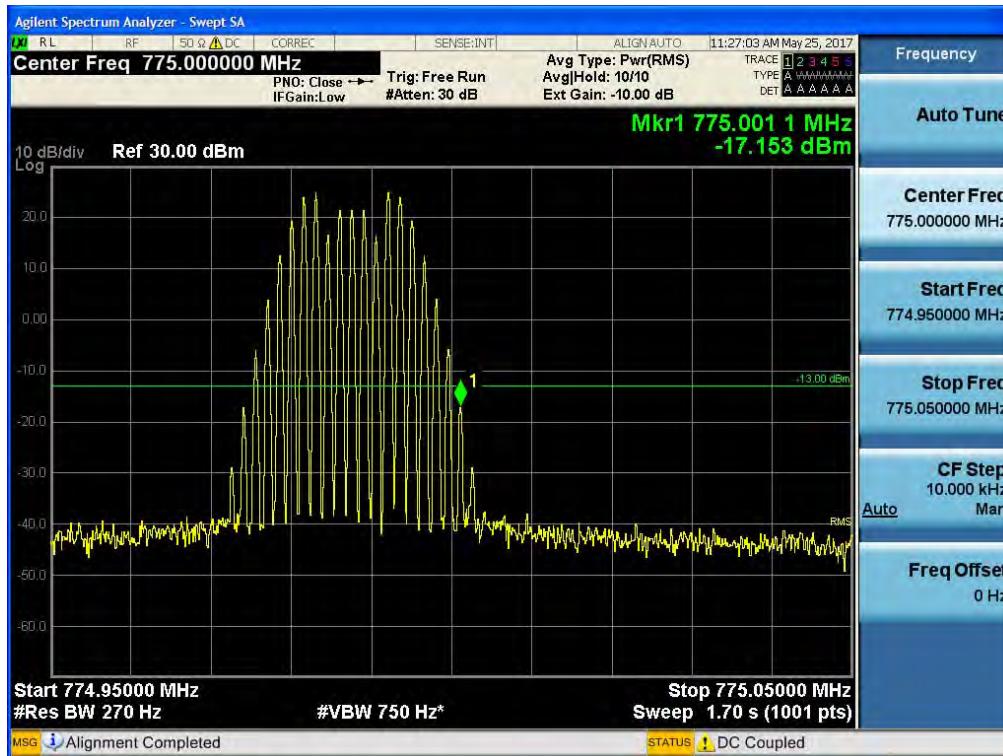
**[Uplink - High]**


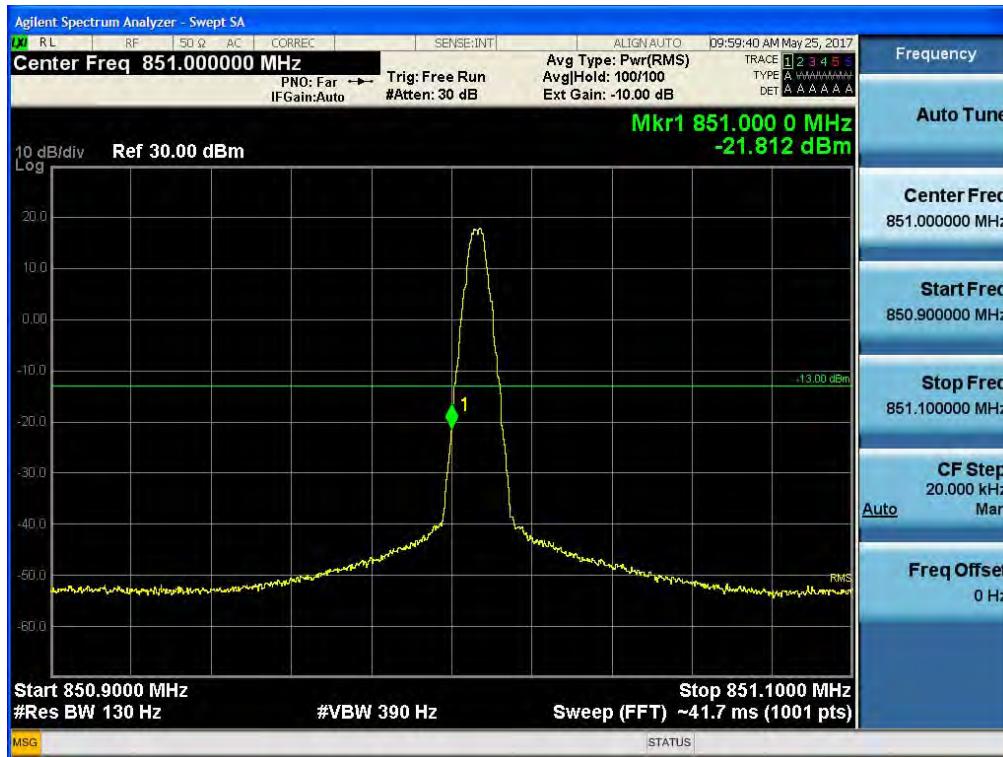
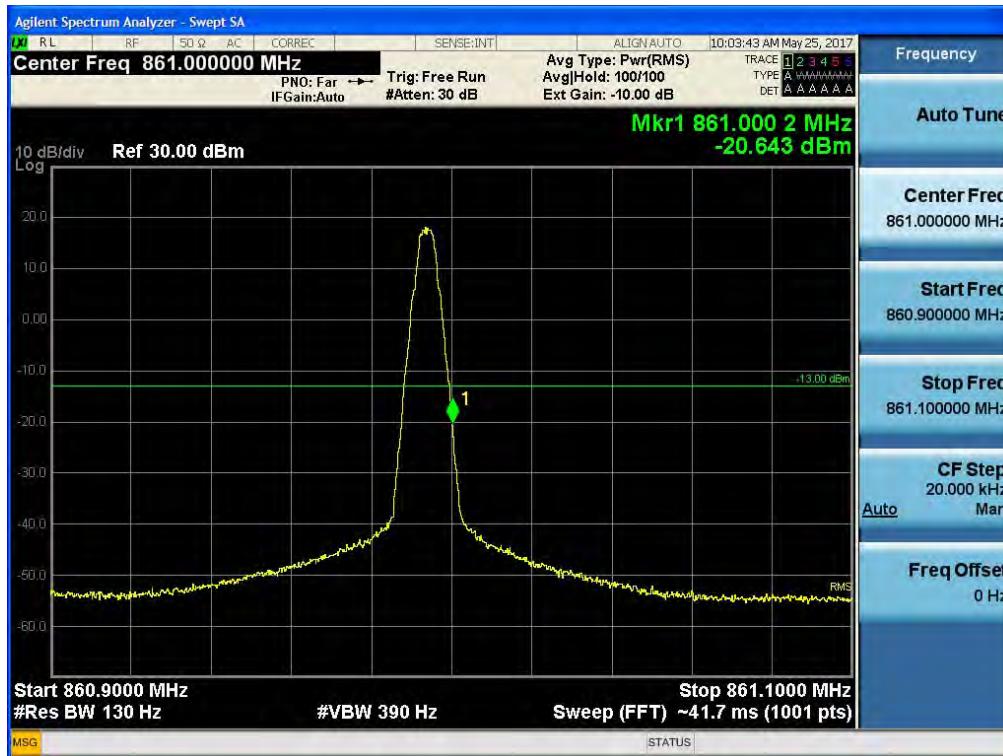
**PS 700 (799 – 805 MHz)\_UL****[Uplink - Low]****[Uplink - High]**

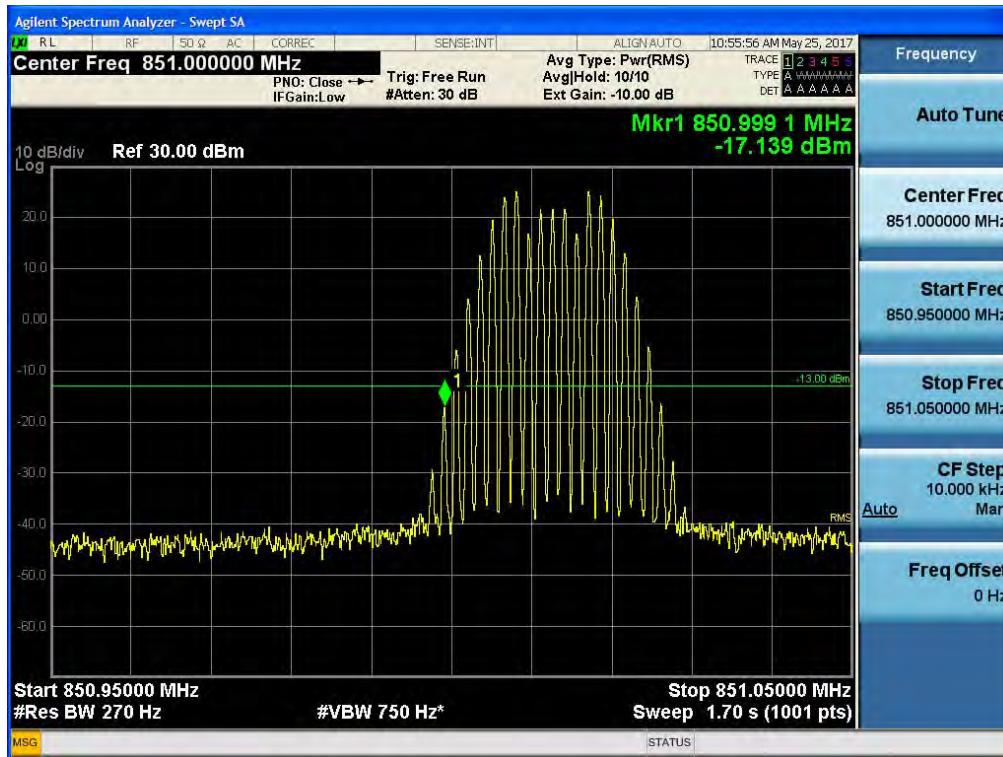
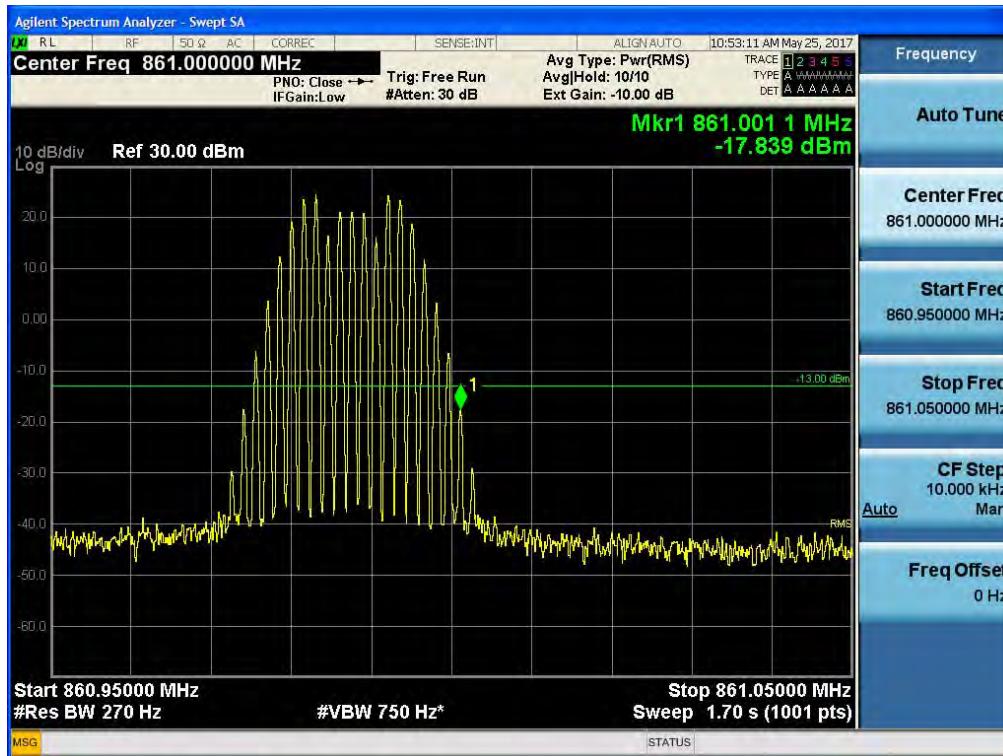
**PS 800 (806 – 816 MHz)\_UL****[Uplink - Low]****[Uplink - High]**

**BAND EDGE****FirstNet LTE 10 MHz (758 – 768 MHz)\_DL****[Downlink - Low]****[Downlink - High]**

**PS 700 APCO 25\_12.5 kHz (769 – 775 MHz)\_DL**
**[Downlink - Low]**

**[Downlink - High]**


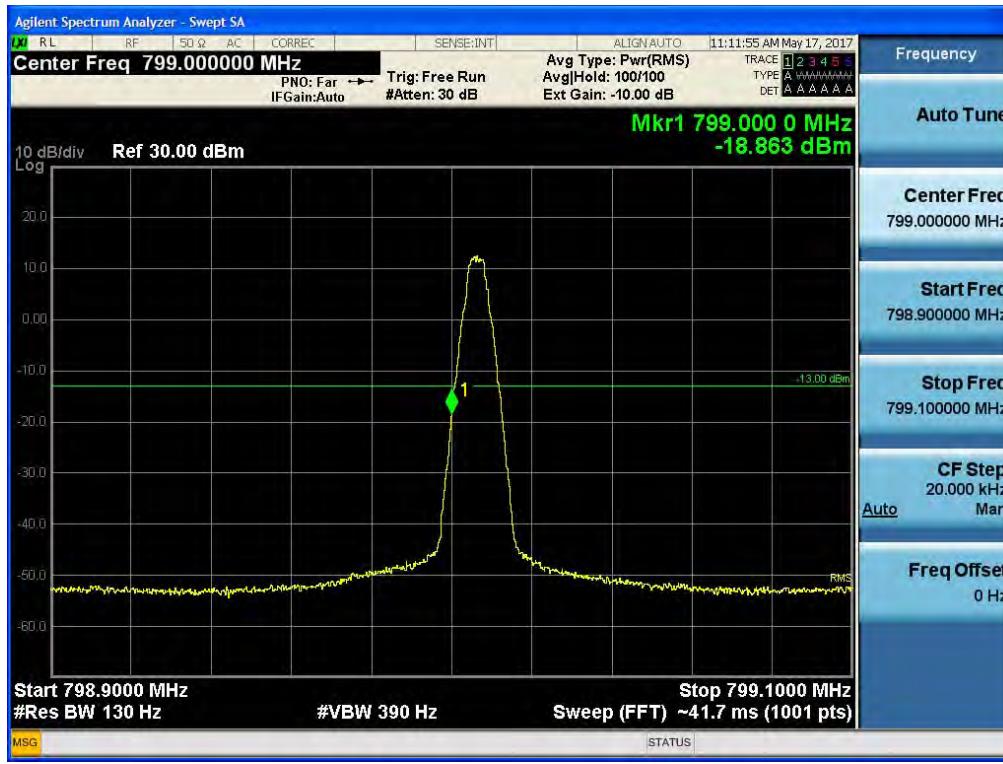
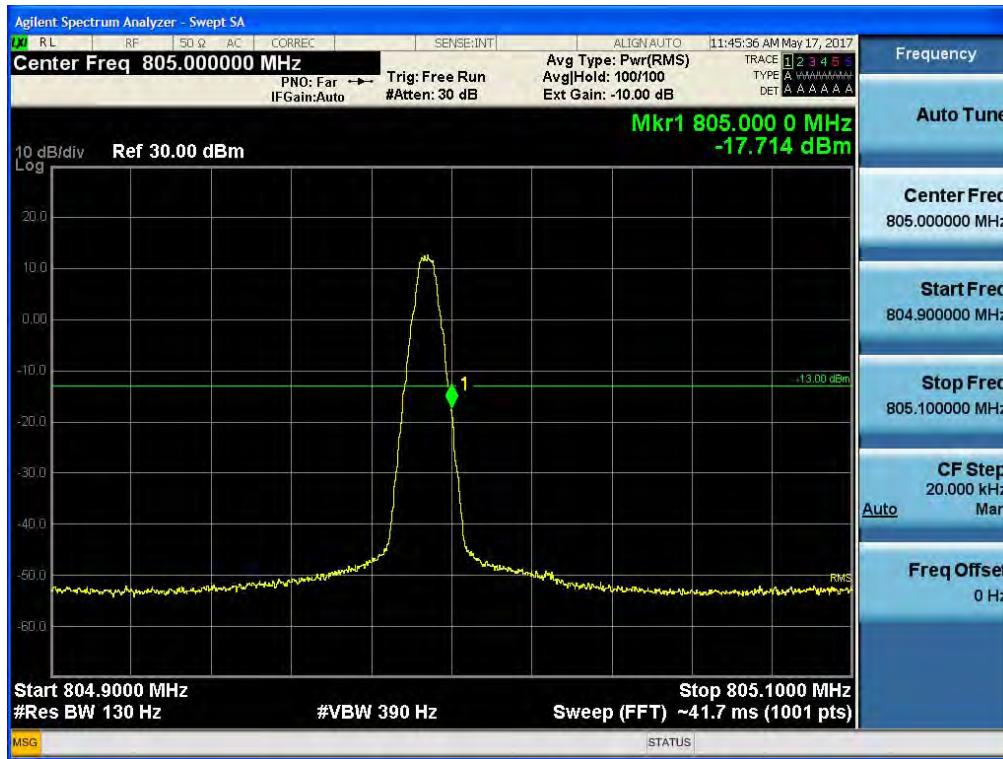
**PS 700 Analog FM\_25 kHz (769 – 775 MHz)\_DL**
**[Downlink - Low]**

**[Downlink - High]**


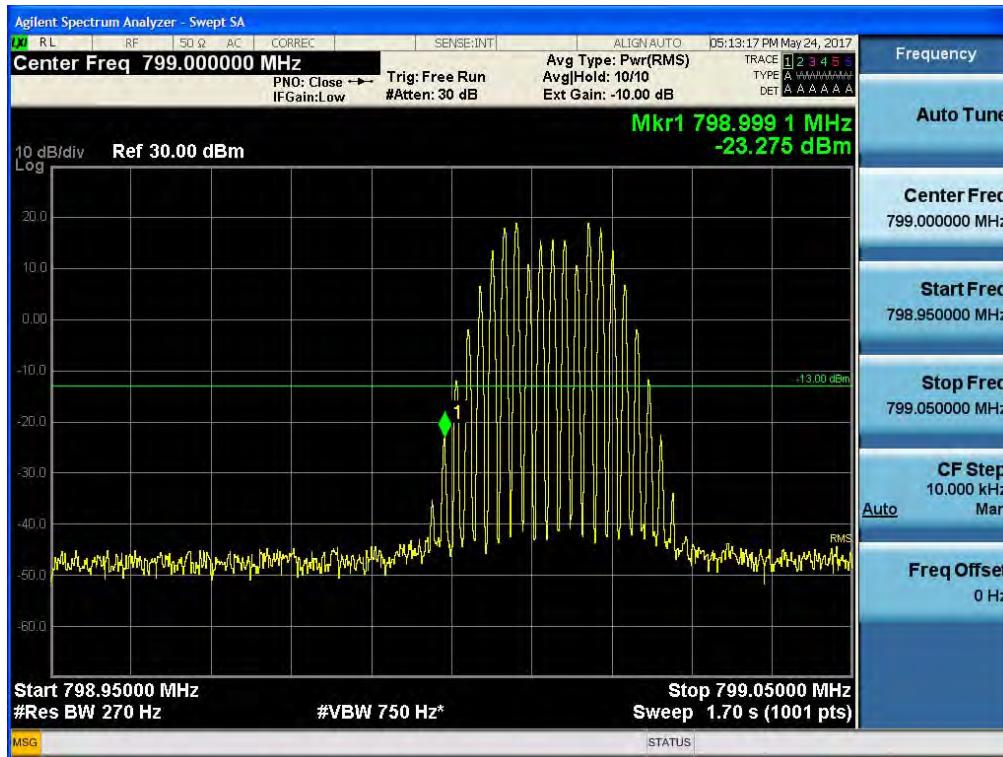
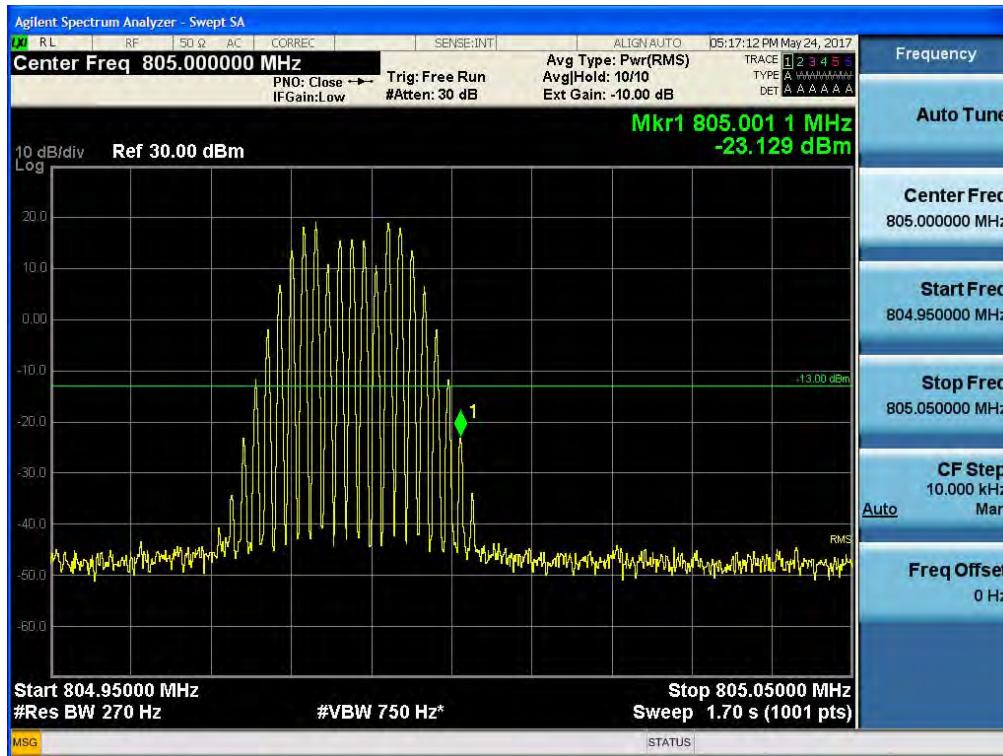
**PS 800 APCO 25\_12.5 kHz (851 – 861 MHz)\_DL**
**[Downlink - Low]**

**[Downlink - High]**


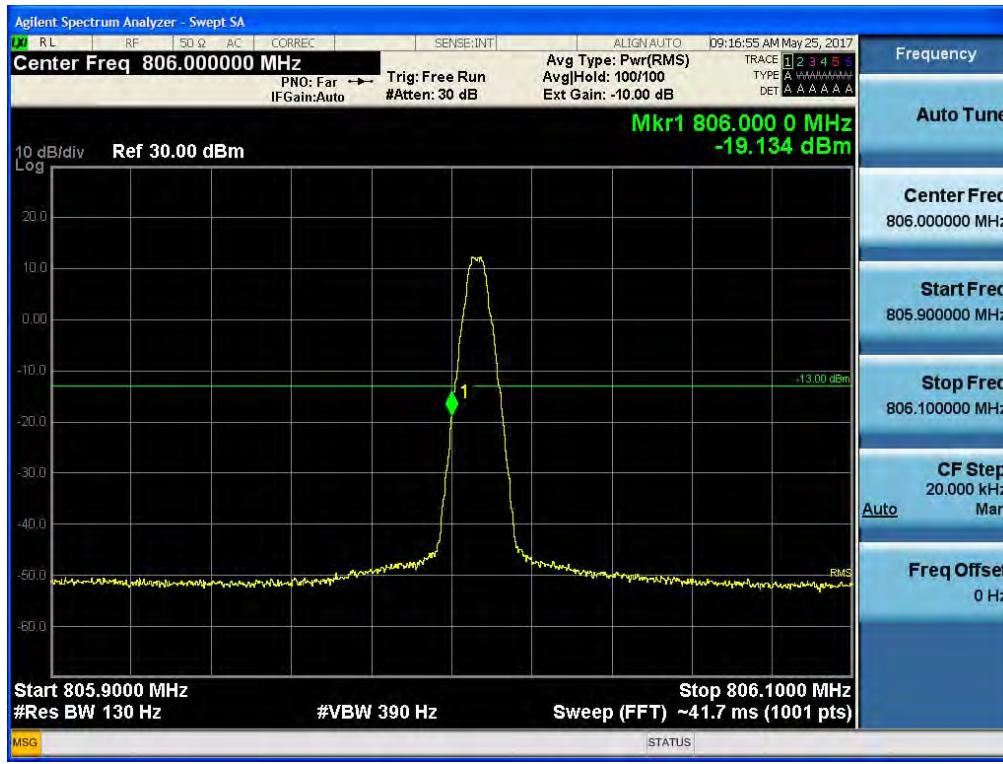
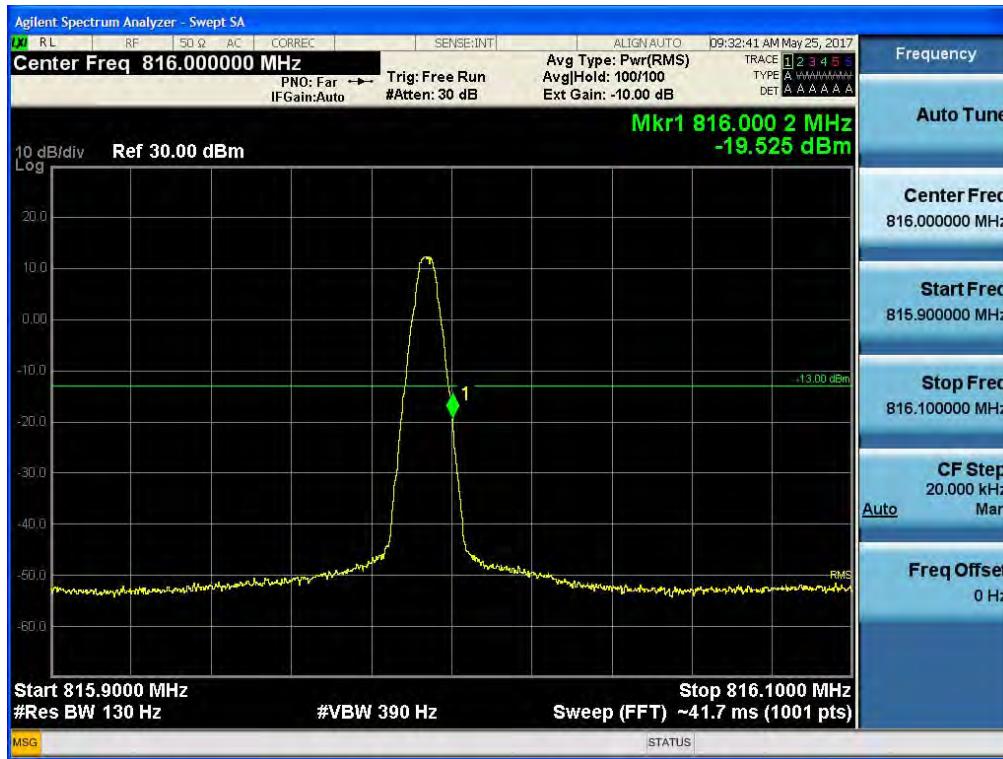
**PS 800 Analog FM\_25 kHz (851 – 861 MHz)\_DL**
**[Downlink - Low]**

**[Downlink - High]**


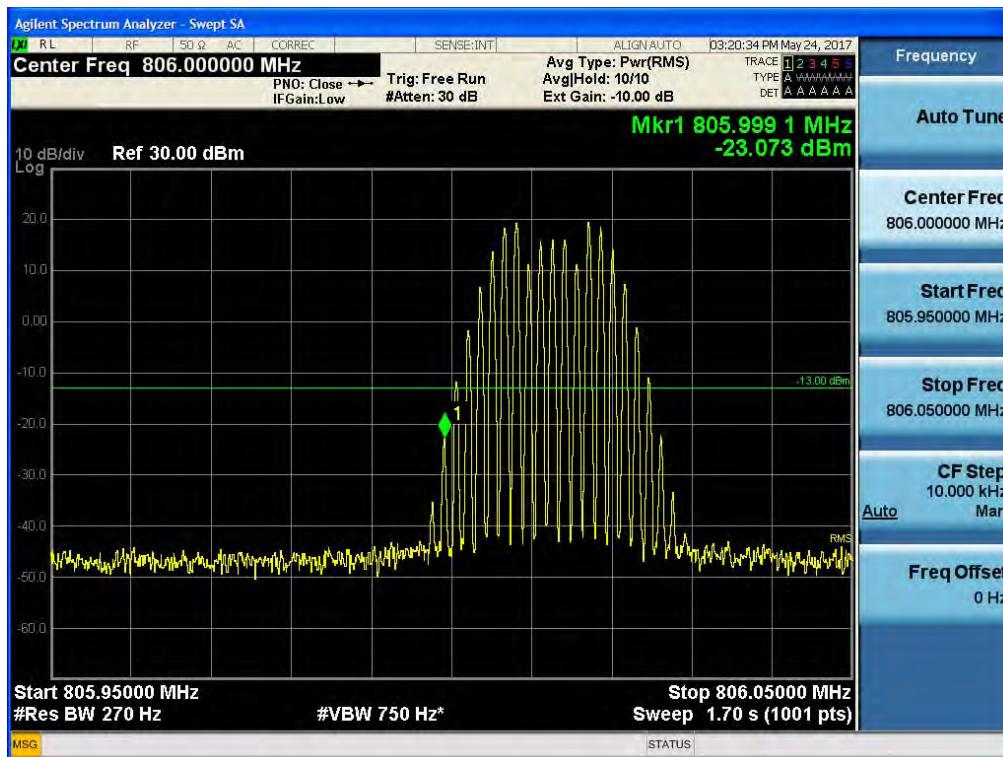
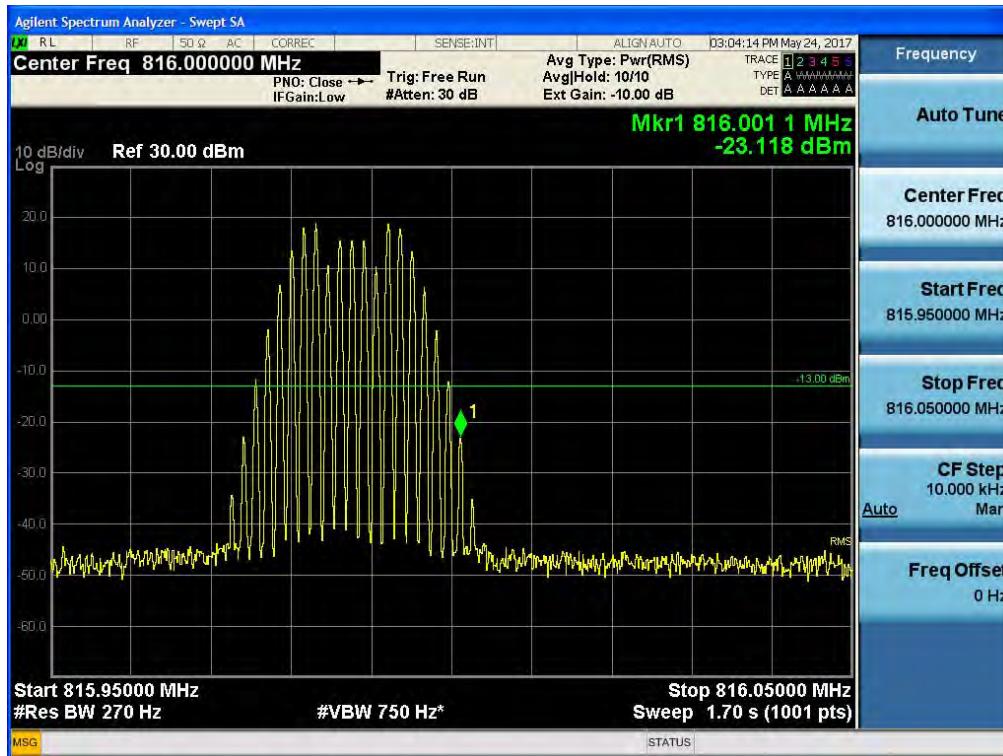
**FirstNet LTE 10 MHz (788 – 798 MHz)\_UL**
**[Uplink - Low]**

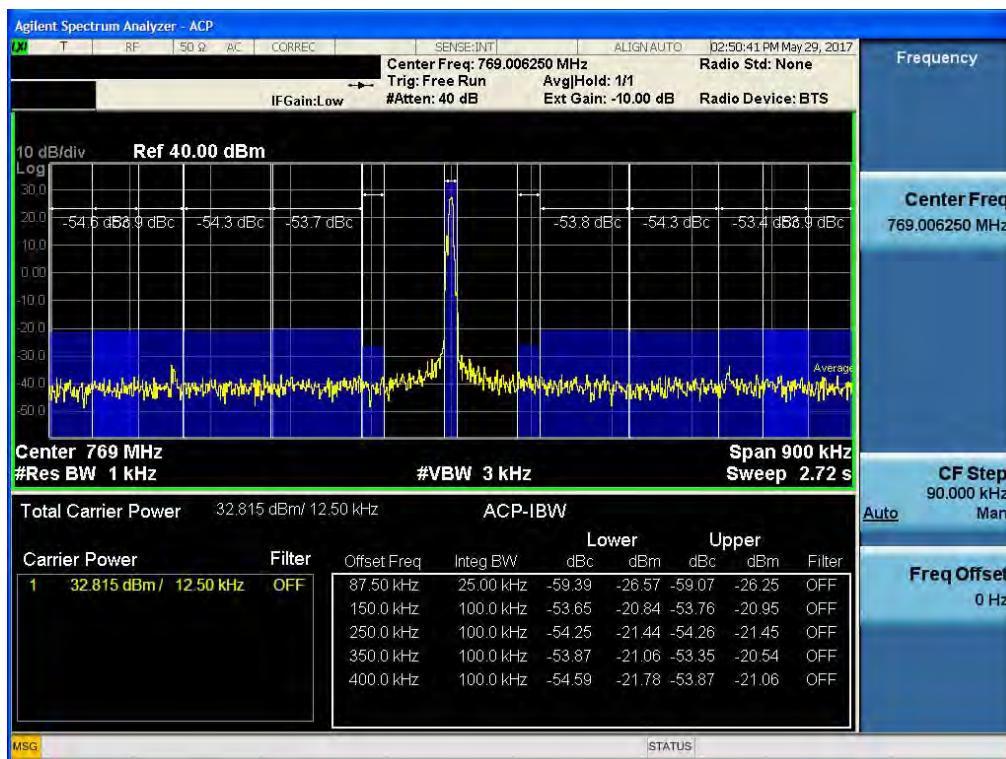
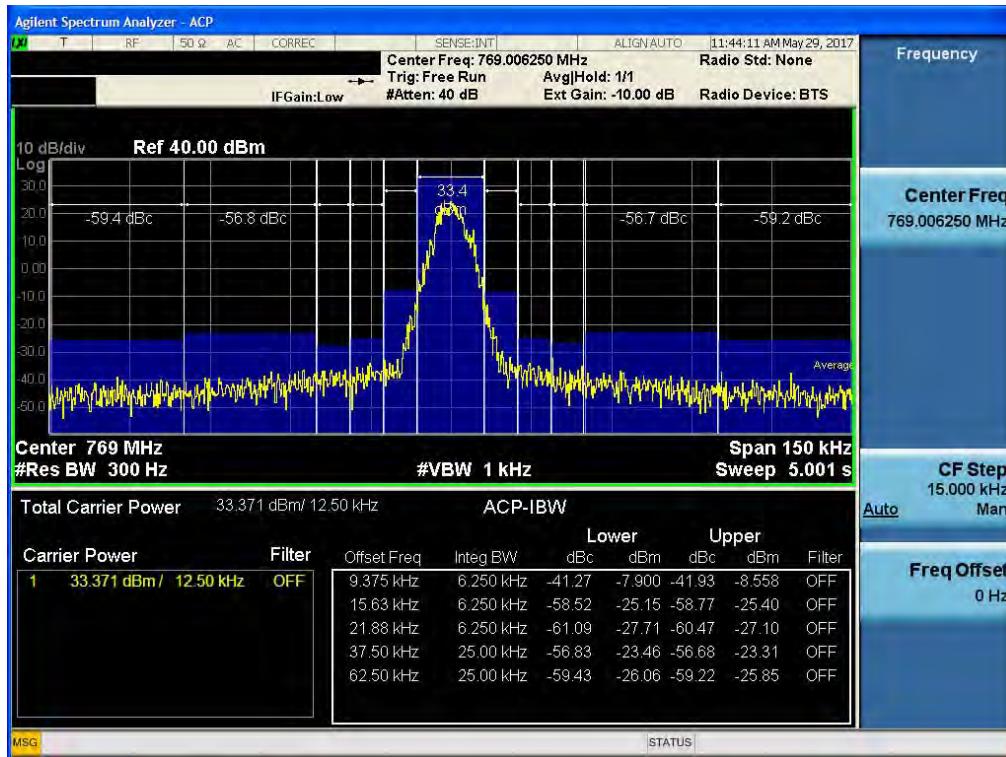
**[Uplink - High]**


**PS 700 APCO 25\_12.5 kHz (799 – 805 MHz)\_UL**
**[Uplink - Low]**

**[Uplink - High]**


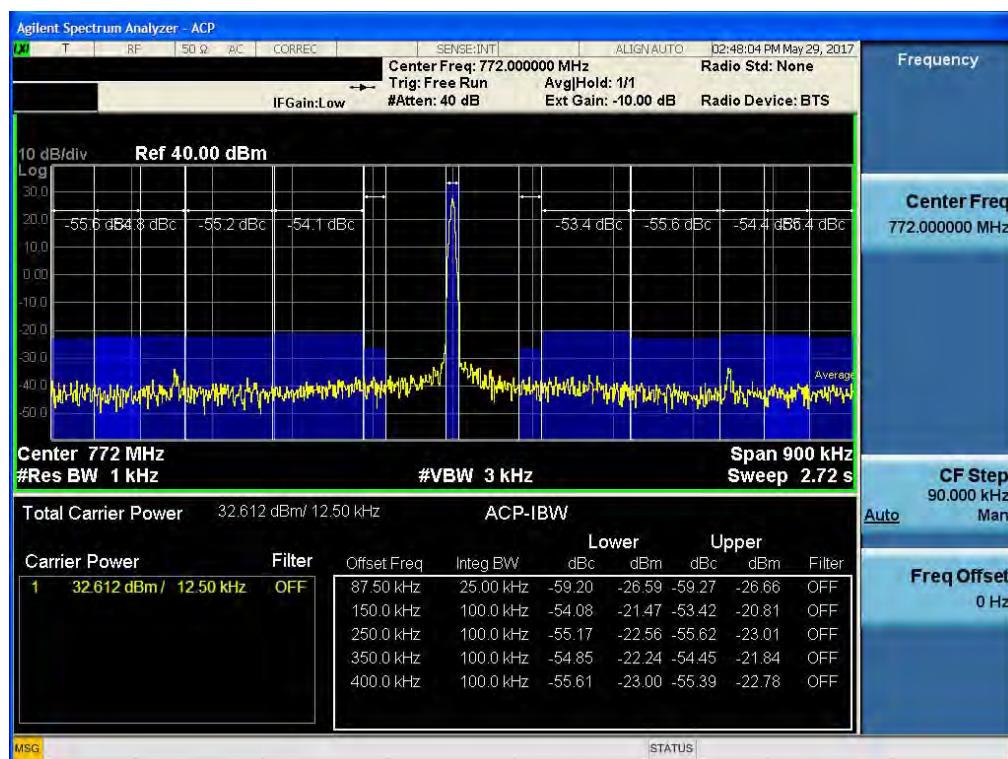
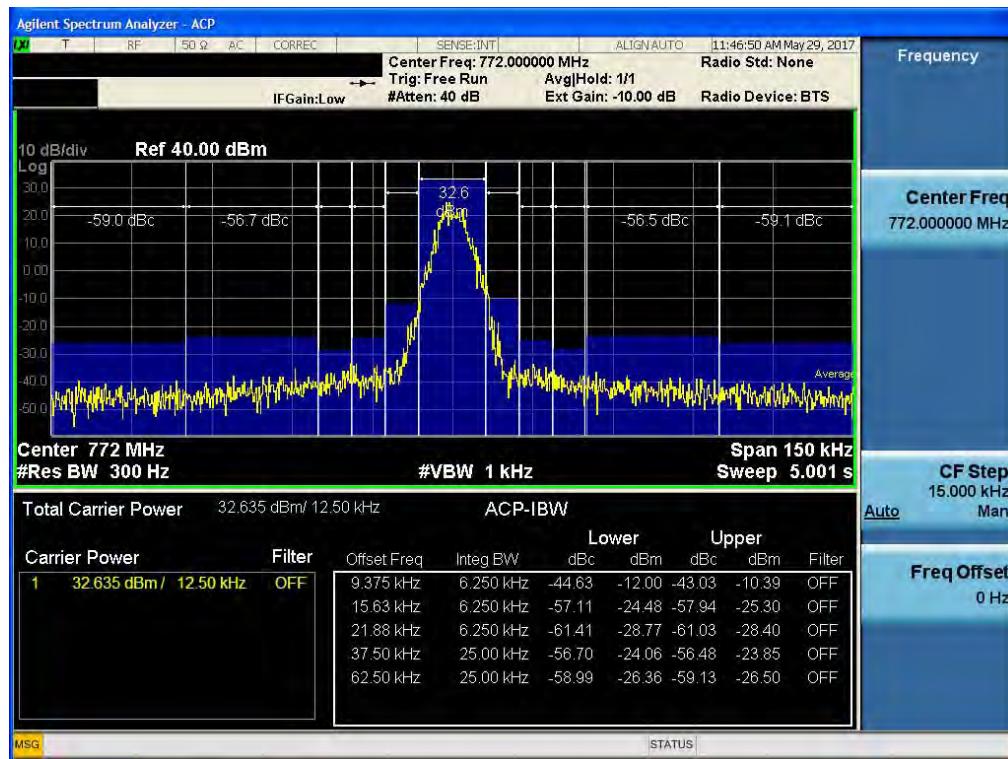
**PS 700 Analog FM\_25 kHz (799 – 805 MHz)\_UL**
**[Uplink - Low]**

**[Uplink - High]**


**PS 800 APCO 25\_12.5 kHz (806 – 816 MHz)\_UL**
**[Uplink - Low]**

**[Uplink - High]**


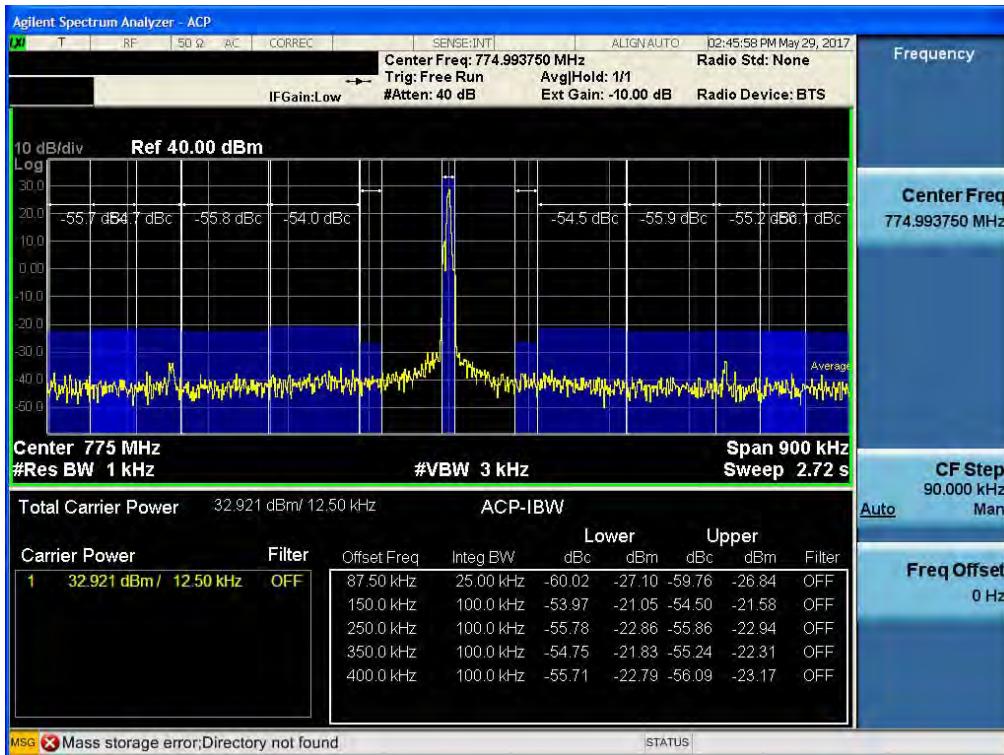
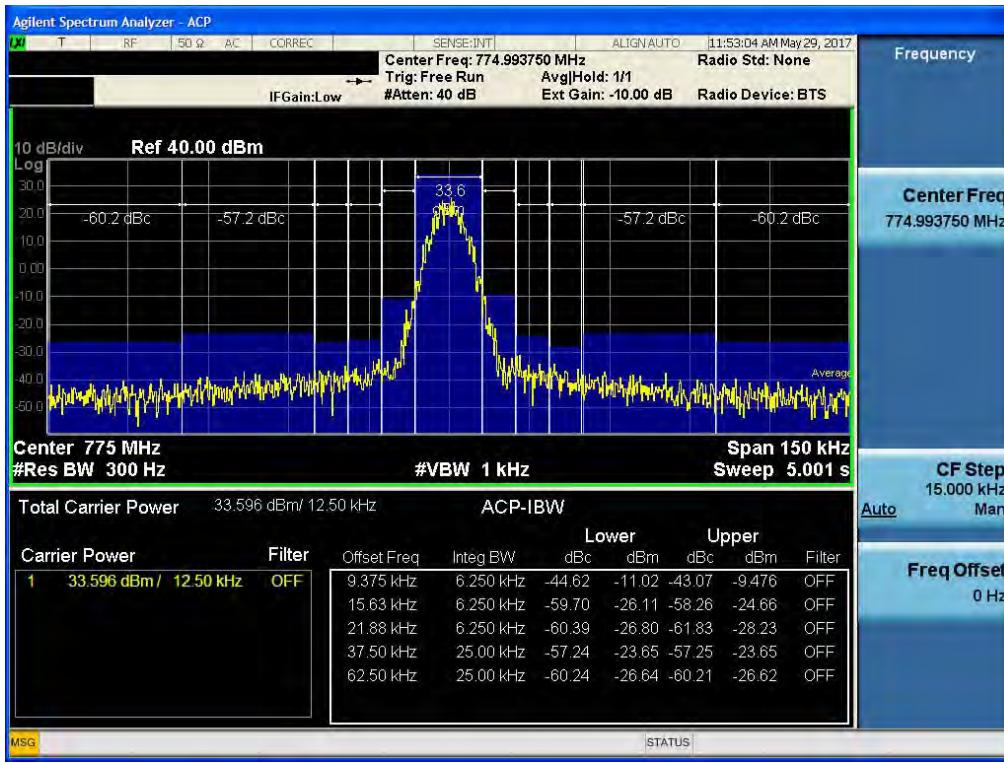
**PS 800 Analog FM\_25 kHz (806 – 816 MHz)\_UL**
**[Uplink - Low]**

**[Uplink - High]**


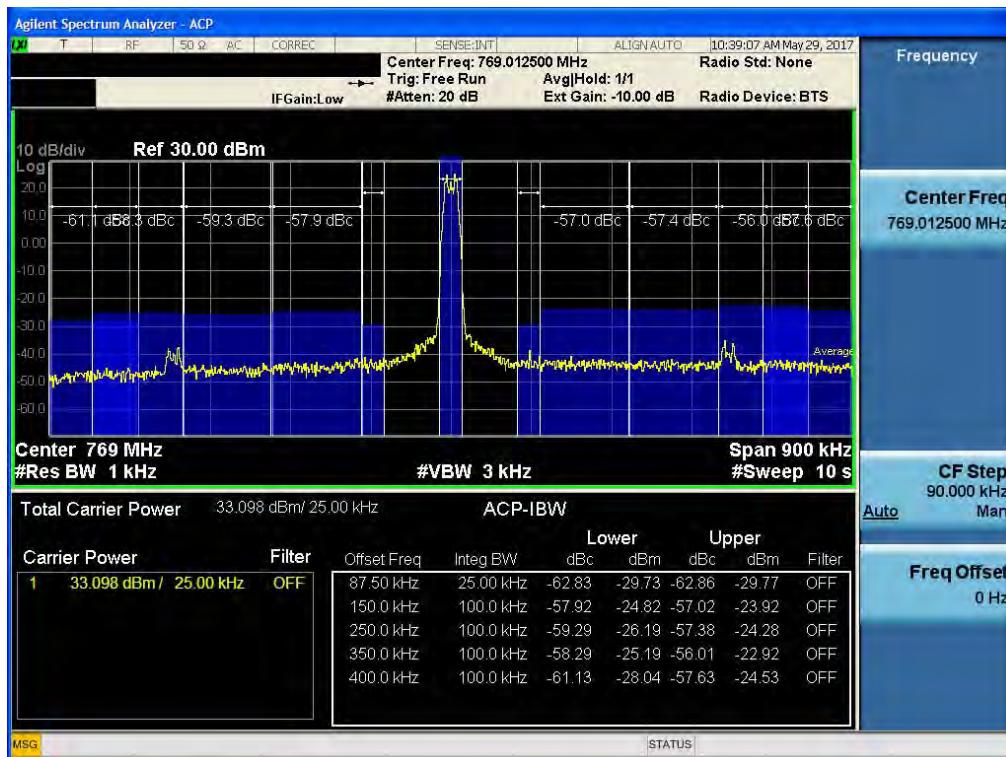
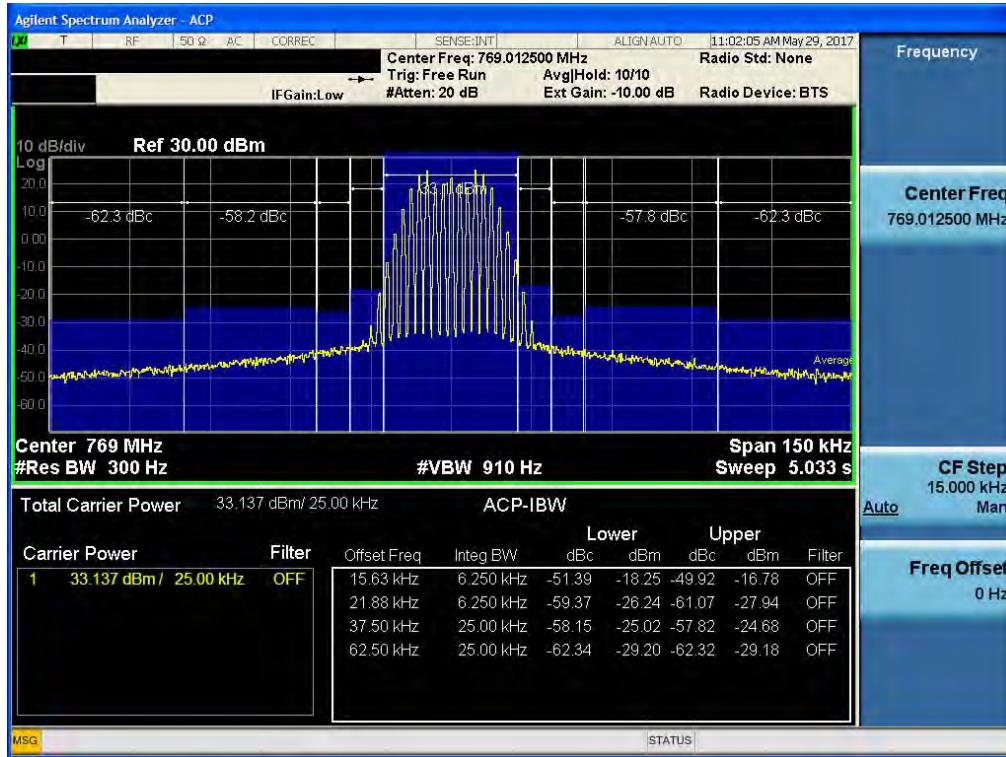
**ACP****PS 700 APCO 25\_12.5 kHz (769 – 775 MHz)\_DL****[Downlink - Low]**

### [Downlink - Middle]

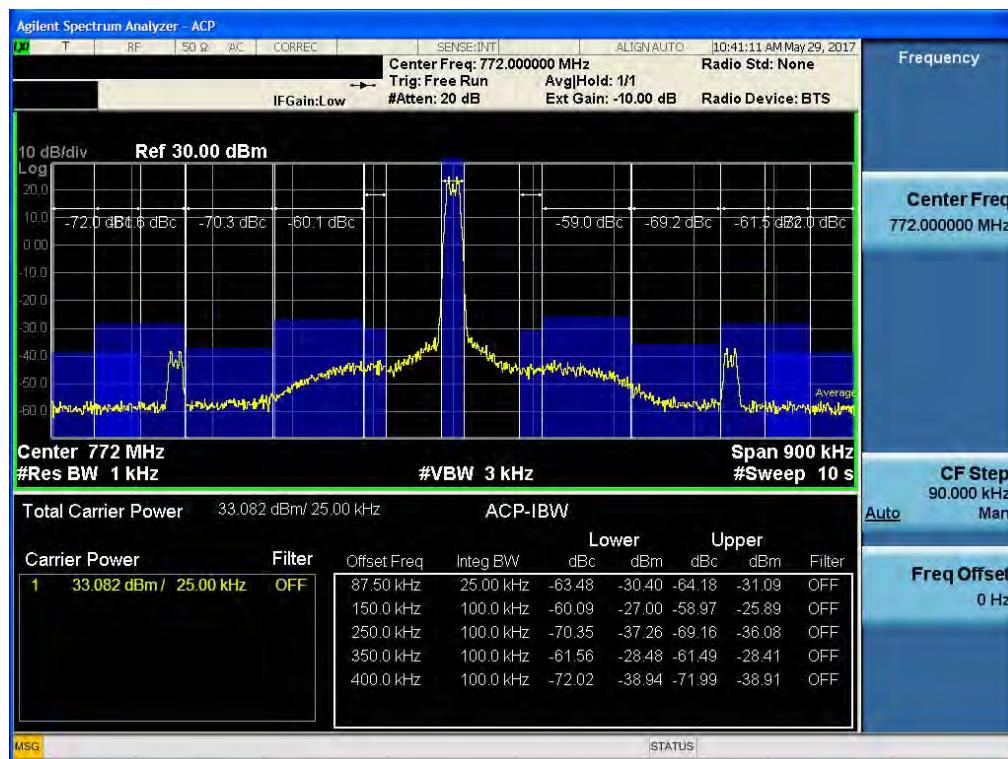
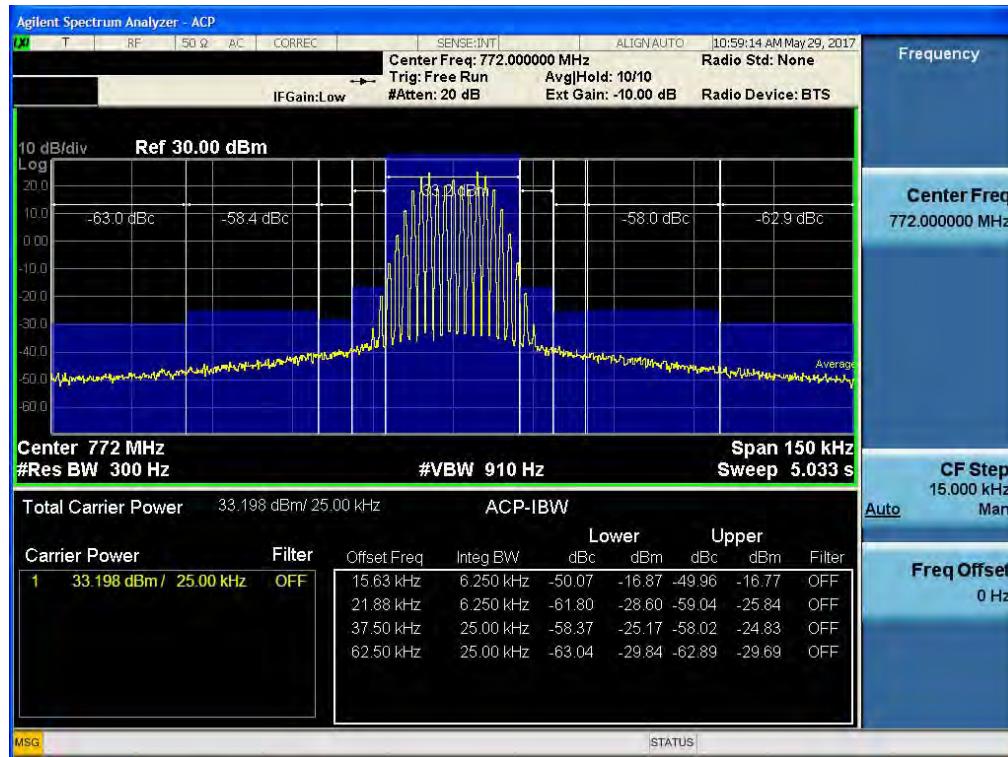


### [Downlink - High]

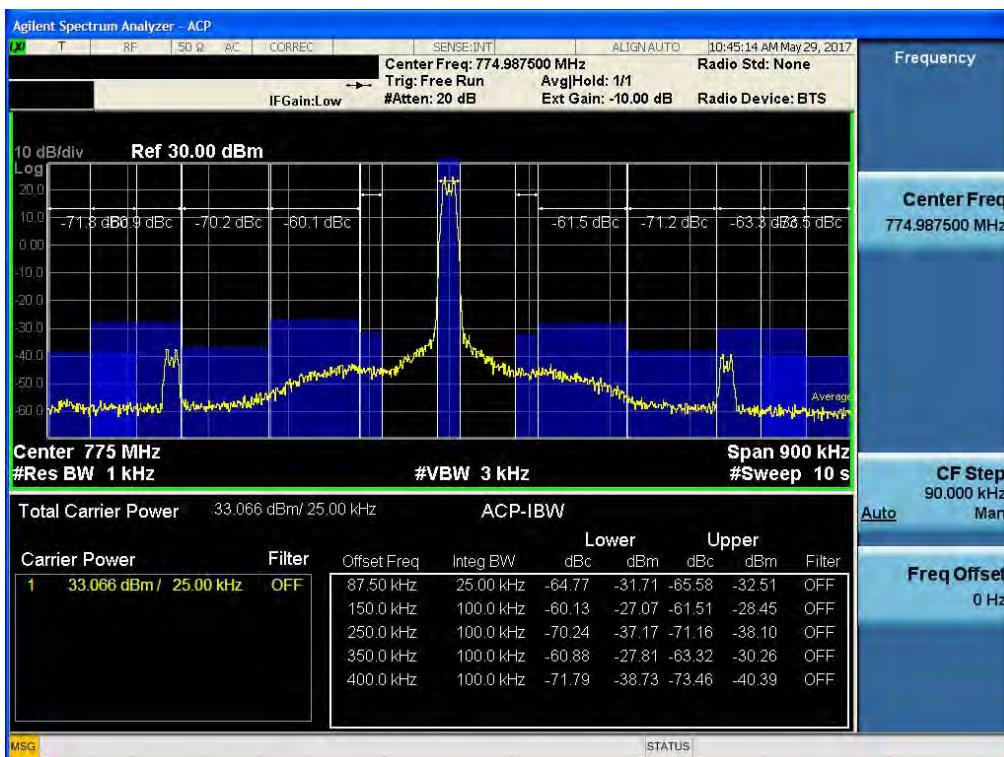
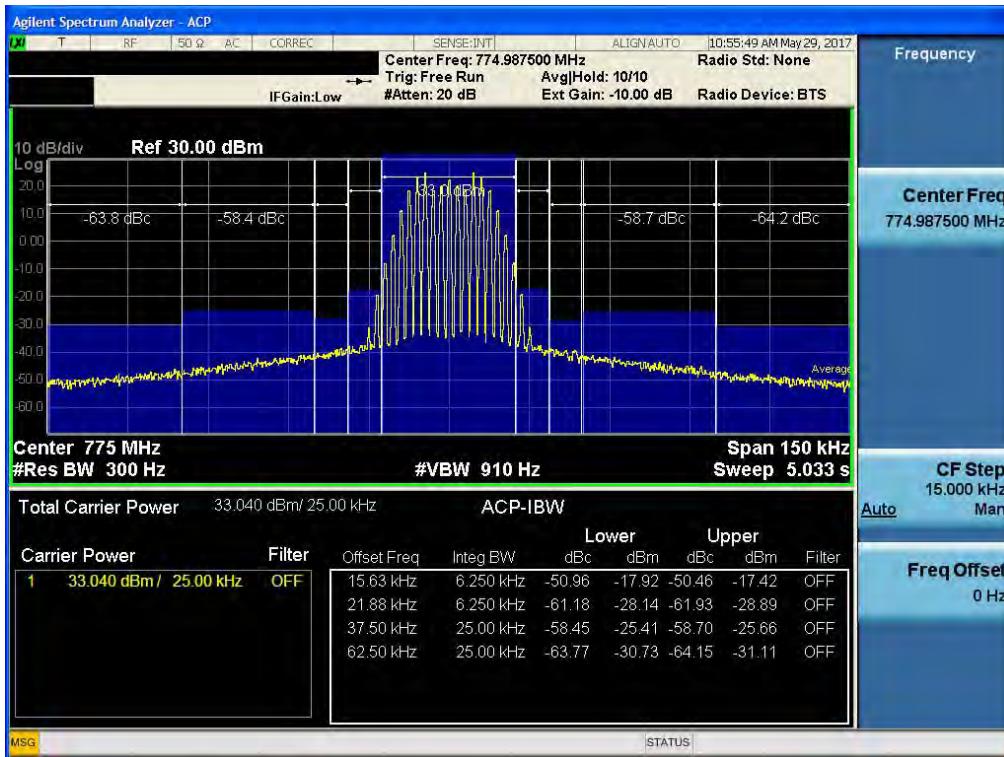


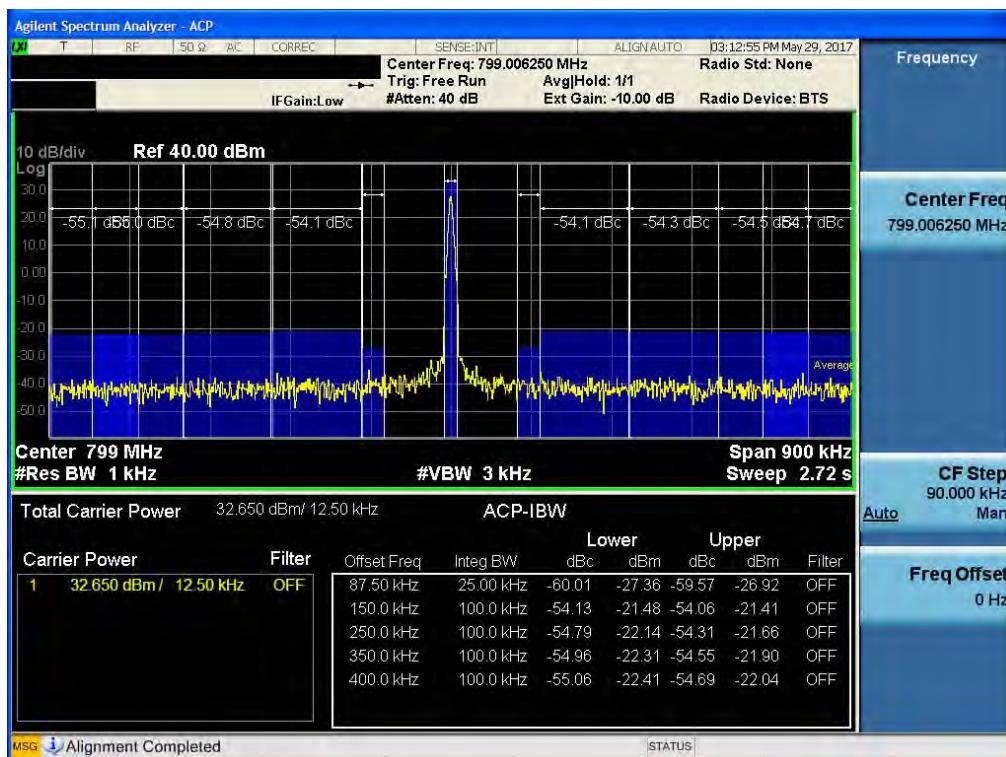
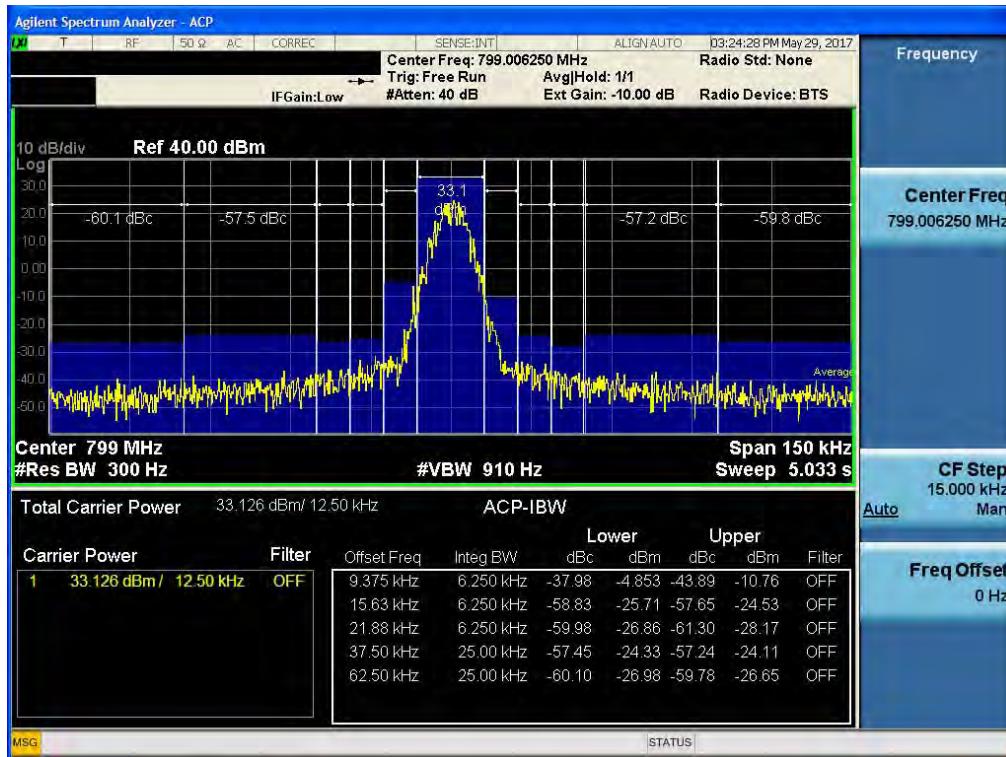
**PS 700 Analog FM\_25 kHz (769 – 775 MHz)\_DL**
**[Downlink - Low]**


### [Downlink - Middle]

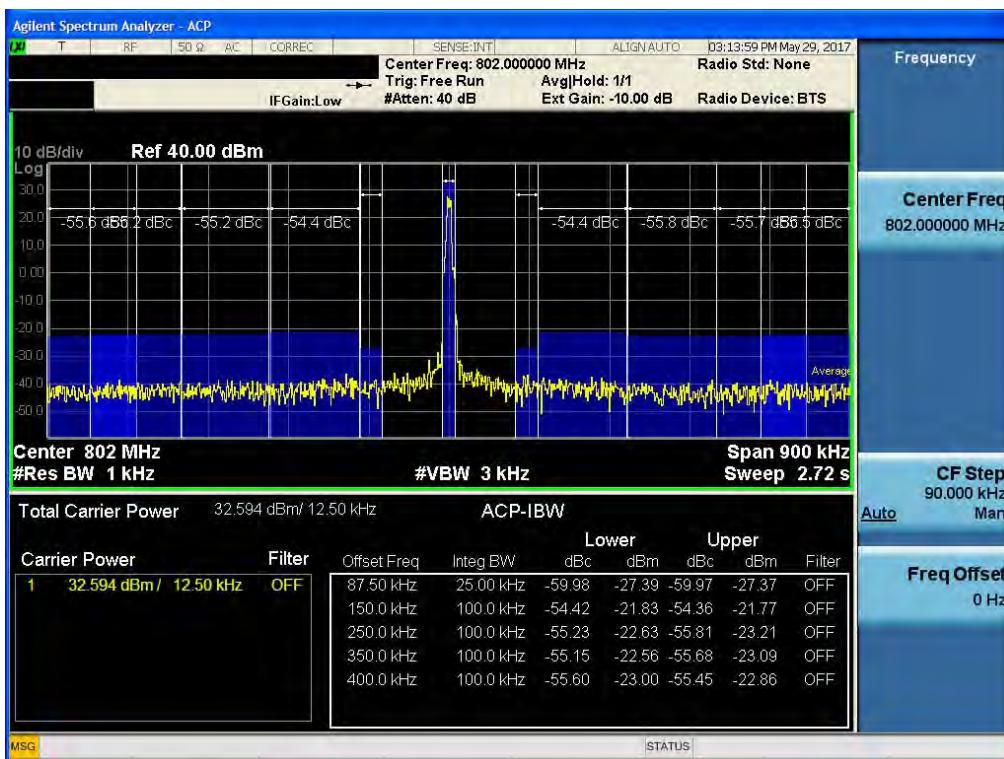
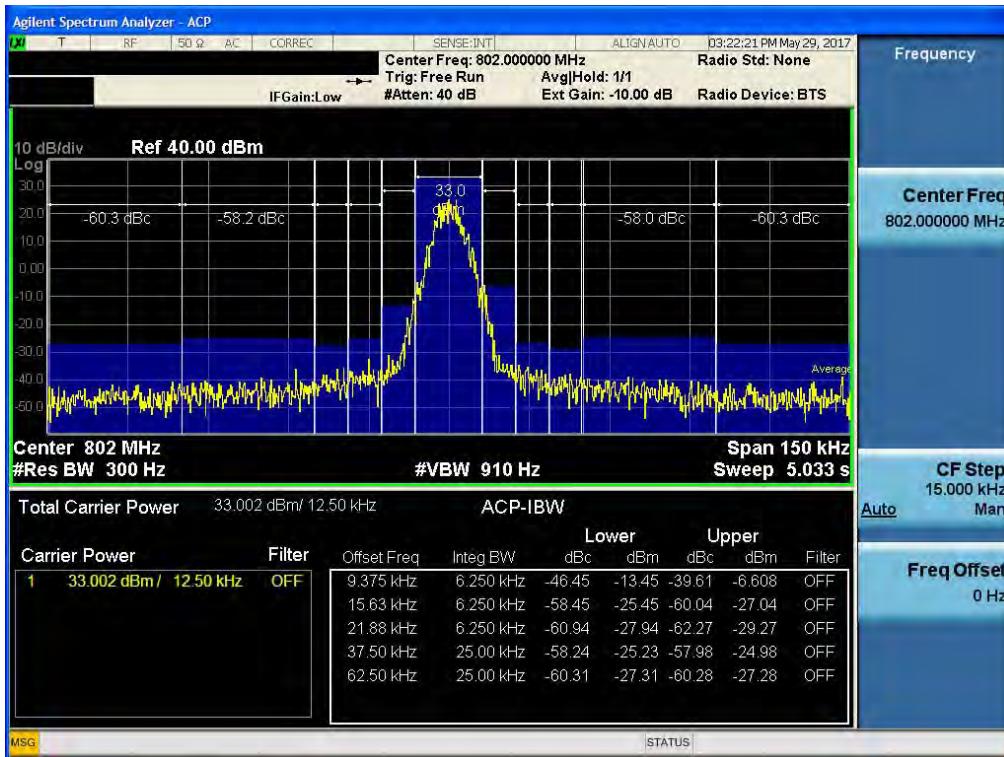


### [Downlink - High]

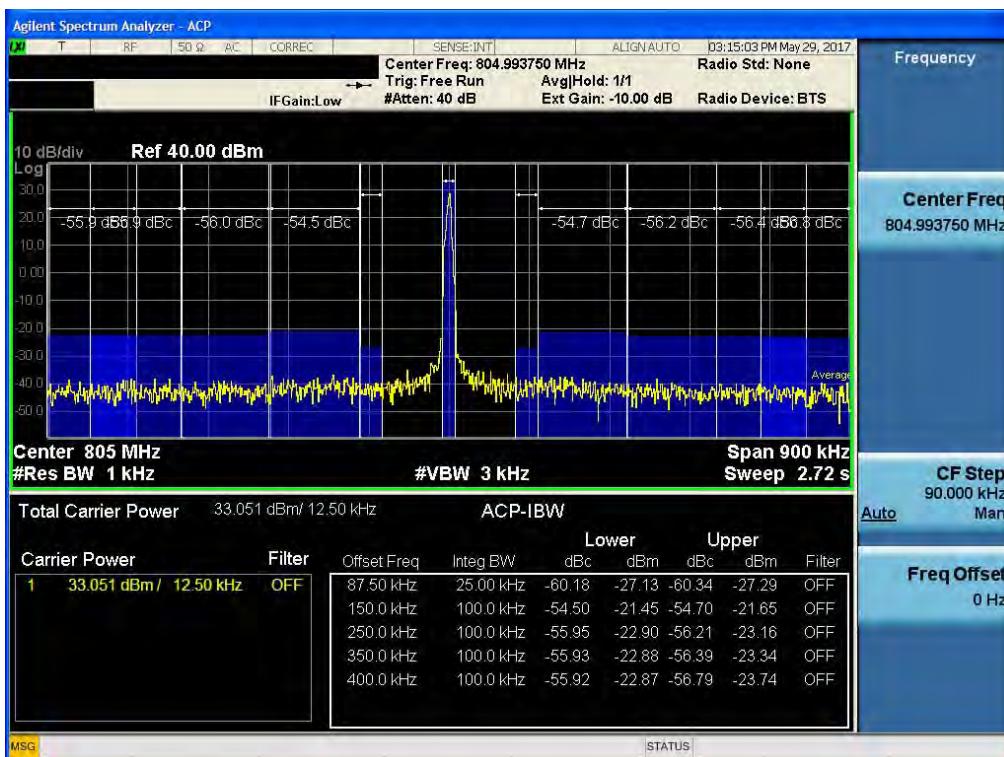
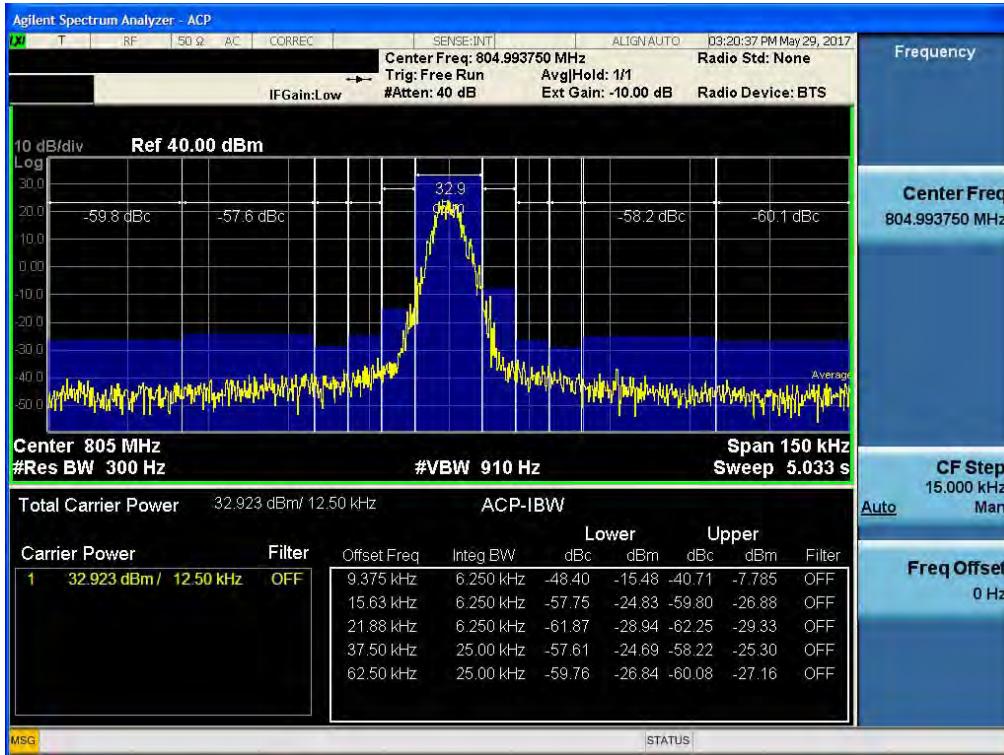


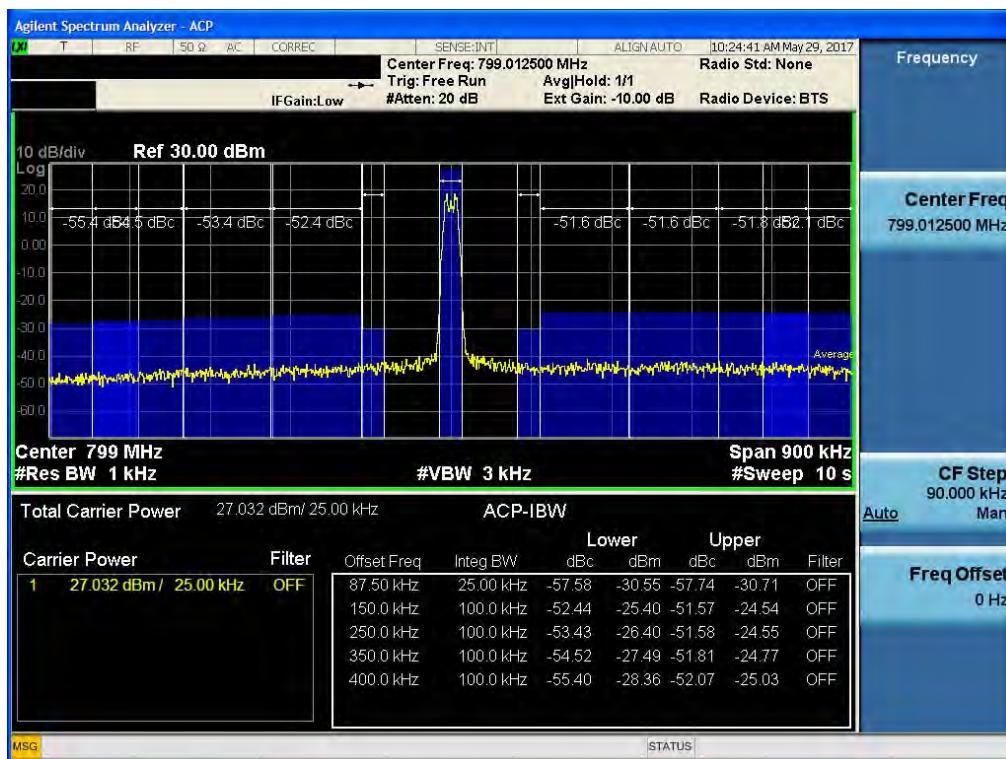
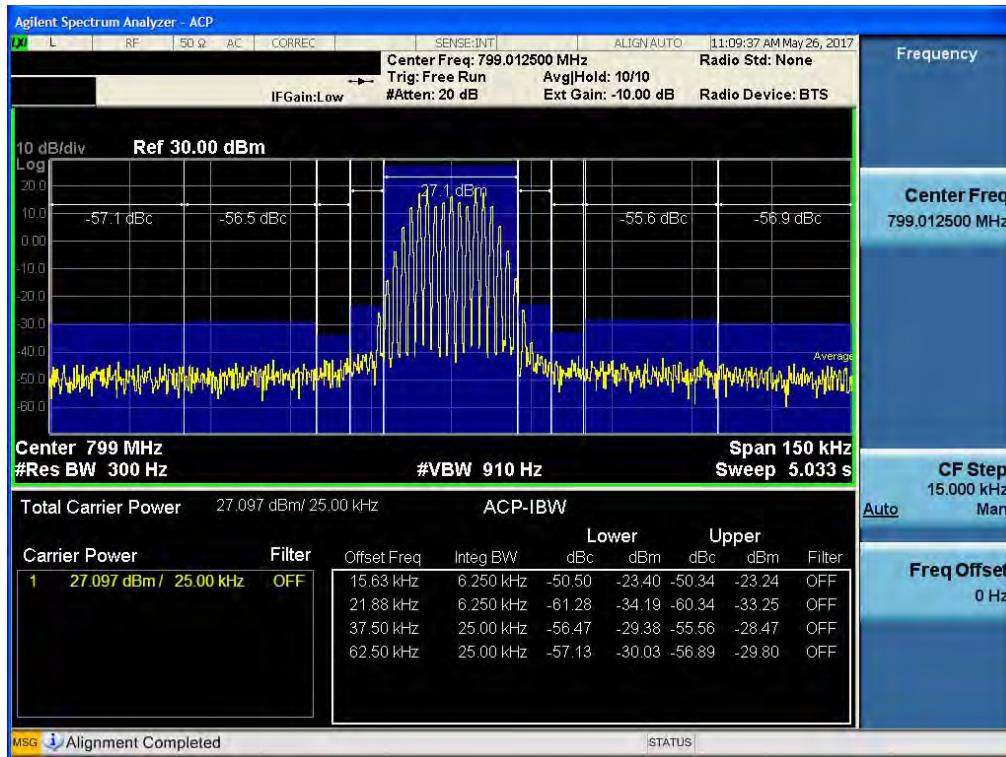
**PS 700 APCO 25\_12.5 kHz (799 – 805 MHz)\_UL**
**[Uplink - Low]**


### [Uplink - Middle]

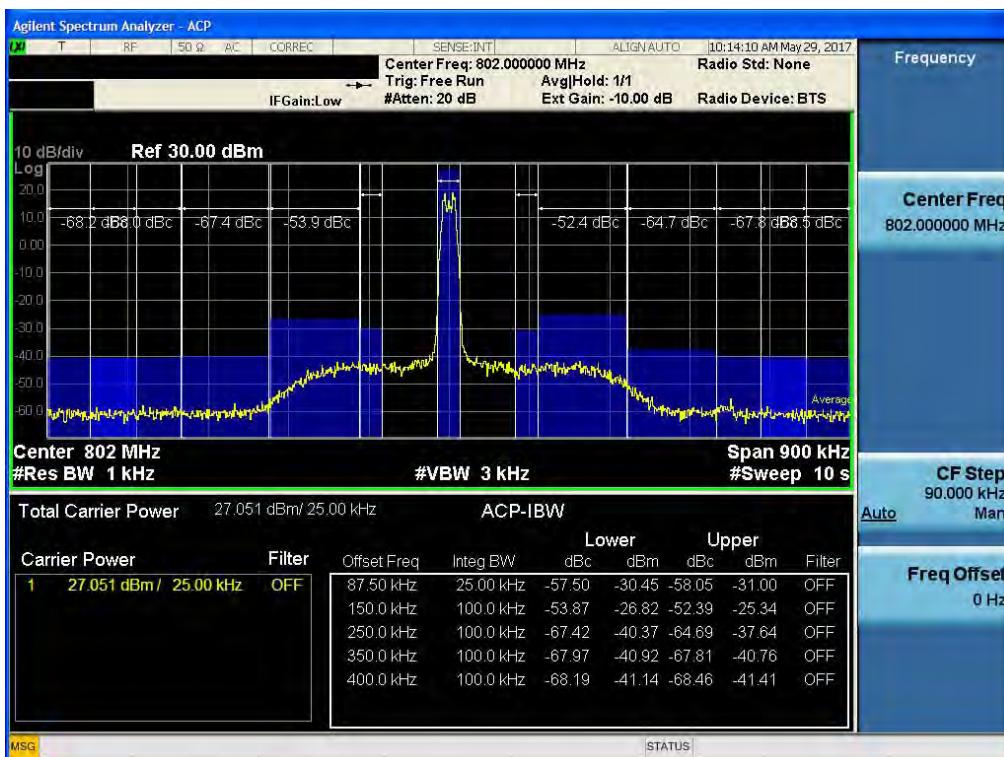
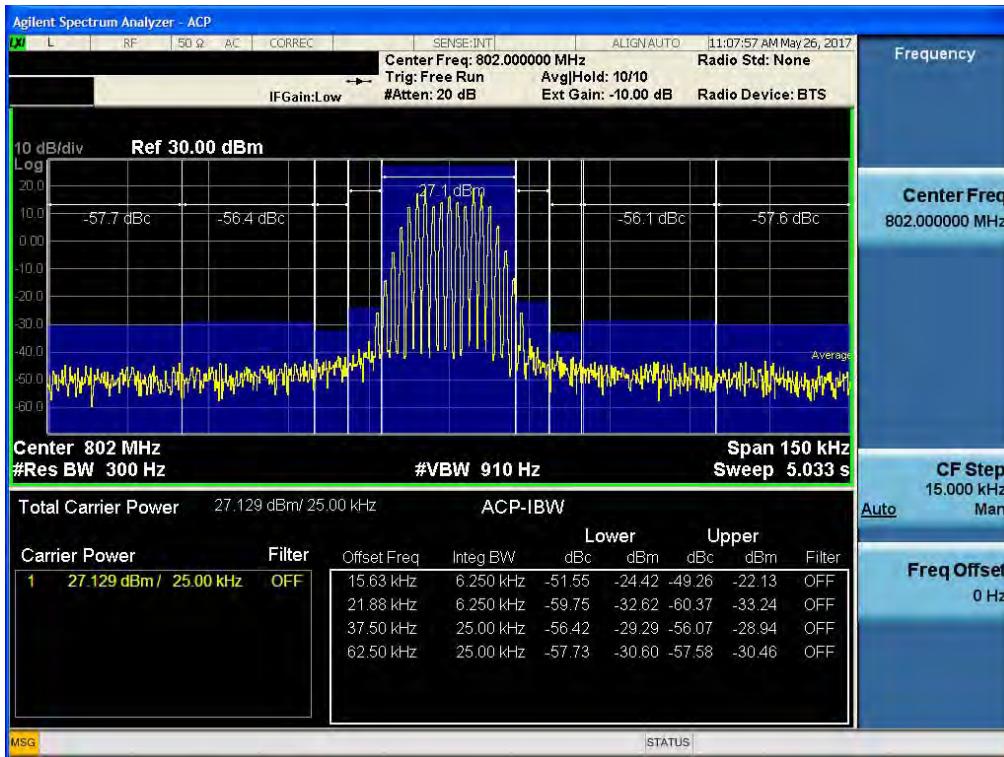


### [Uplink - High]

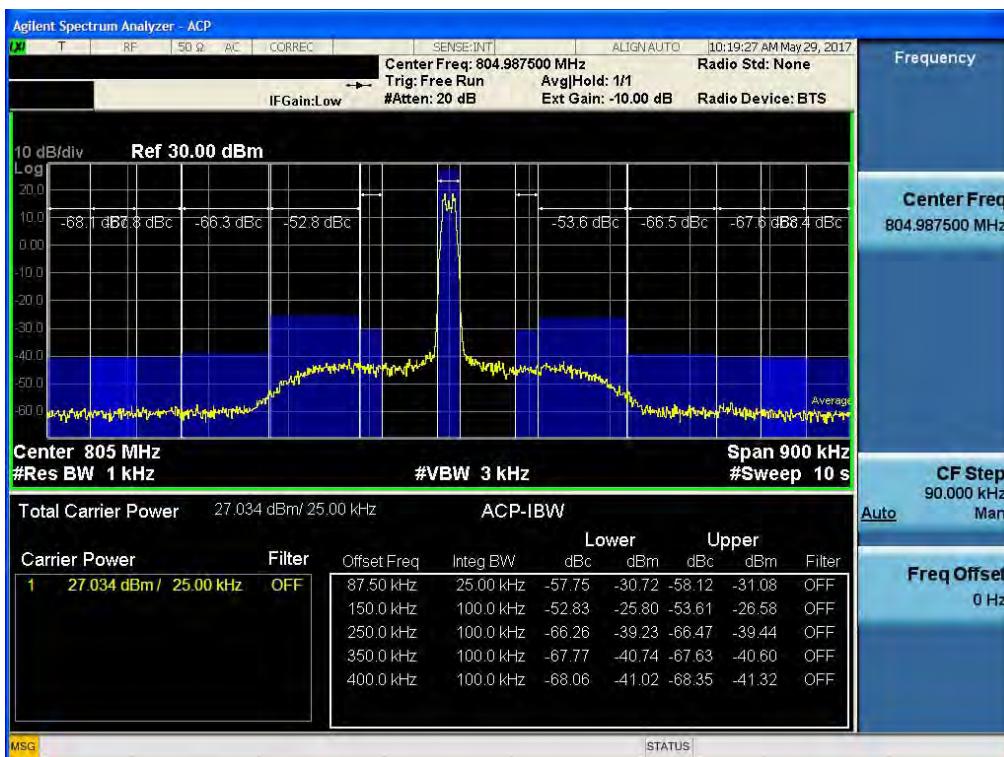
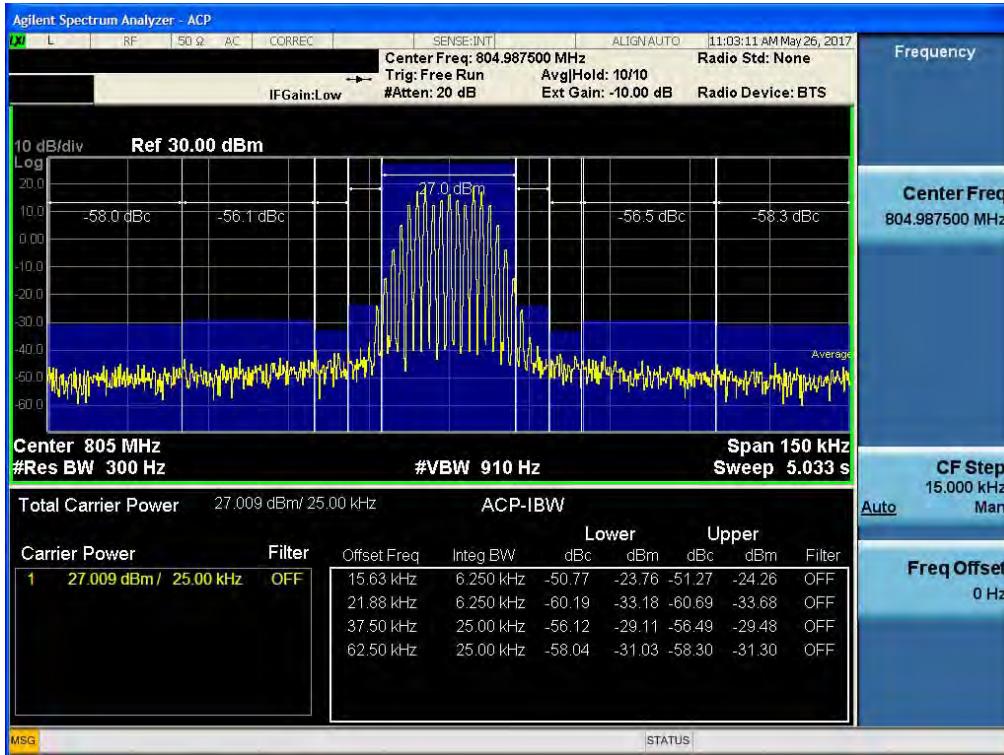


**PS 700 Analog FM\_25 kHz (799 – 805 MHz)\_UL**
**[Uplink - Low]**


### [Uplink - Middle]



### [Uplink - High]



## 12. RADIATED SPURIOUS EMISSIONS

### FCC Rules

#### Test Requirements:

##### **§ 2.1053 Measurements required: Field strength of spurious radiation.**

(a) Measurements shall be made to detect spurious emissions that may be radiated directly from the cabinet, control circuits, power leads, or intermediate circuit elements under normal conditions of installation and operation. Curves or equivalent data shall be supplied showing the magnitude of each harmonic and other spurious emission. For this test, single sideband, independent sideband, and controlled carrier transmitters shall be modulated under the conditions specified in paragraph (c) of §2.1049, as appropriate. For equipment operating on frequencies below 890 MHz, an open field test is normally required, with the measuring instrument antenna located in the far-field at all test frequencies. In the event it is either impractical or impossible to make open field measurements (e.g. a broadcast transmitter installed in a building) measurements will be accepted of the equipment as installed. Such measurements must be accompanied by a description of the site where the measurements were made showing the location of any possible source of reflections which might distort the field strength measurements. Information submitted shall include the relative radiated power of each spurious emission with reference to the rated power output of the transmitter, assuming all emissions are radiated from halfwave dipole antennas.

(b) The measurements specified in paragraph (a) of this section shall be made for the following equipment:

- (1) Those in which the spurious emissions are required to be 60 dB or more below the mean power of the transmitter.
- (2) All equipment operating on frequencies higher than 25 MHz.
- (3) All equipment where the antenna is an integral part of, and attached directly to the transmitter.
- (4) Other types of equipment as required, when deemed necessary by the Commission.

### IC Rules

#### Test Requirements:

##### RSS-Gen

## 7. Receiver Limits

### 7.1 Receiver Emission Limits

#### 7.1.2 Receiver Radiated Limits

Radiated emission measurements shall be performed with the receiver antenna connected to the receiver antenna terminals. The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least 5x the highest tunable or local

oscillator frequency, whichever is higher, without exceeding 40 GHz.

Spurious emissions from receivers shall not exceed the radiated limits shown in Table 2 below:

<b>Table 2 – Receiver Radiated Limits</b>	
<b>Frequency (MHz)</b>	<b>Field Strength (<math>\mu\text{V/m}</math> at 3 metres)*</b>
30-88	100
88-216	150
216-960	200
Above 960	500

**Footnote \***

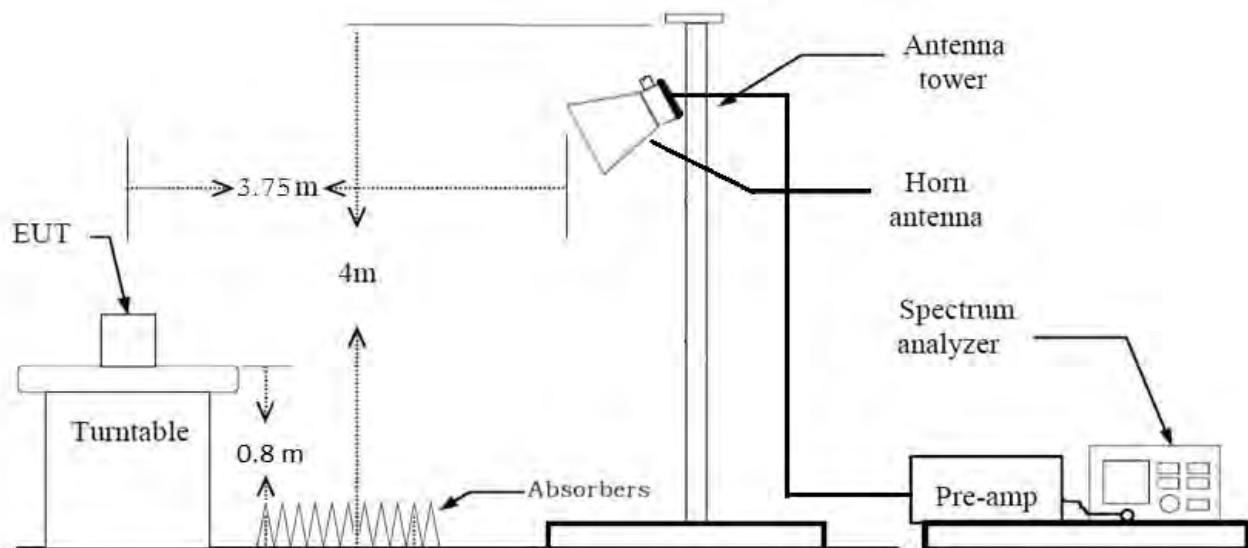
Measurements for compliance with limits in the above table may be performed at distances other than 3 meters, in accordance with Section 6.5.

**Test Procedures:**

As required by 47 CFR 2.1053, *field strength of radiated spurious measurements* were made in accordance with the procedures of ANSI/TIA-603-C-2004 "Land Mobile FM or PM Communications Equipment Measurement and Performance Standards".

Radiated emission measurements were performed inside a 3 meter semi-anechoic chamber.

The EUT was set at a distance of 3m from the receiving antenna. The EUT's RF ports were terminated to 50ohm load. The EUT was set to transmit at the low, mid and high channels of the transmitter frequency range at its maximum power level. The EUT was rotated about 360and the receiving antenna scanned from 1-3m in order to capture the maximum emission. A calibrated antenna source was positioned in place of the EUT and the previously recorded signal was duplicated. The maximum EIRP of the emission was calculated by adding the forward power to the calibrated source plus its appropriate gain value. These steps were carried. out with the receiving antenna in both vertical and horizontal polarization. Harmonic emissions up to the 10th or 40GHz, whichever was the lesser, were investigated.

**Radiated Spurious Emissions Test Setup****Note :**

1. According to SVSWR requirement in ANSI 63.4-2014, We performed the radiated test at 3.75 m distance from center of turn table. So, we applied the distance factor( reference distance : 3 m).
2. Distance extrapolation factor =  $20 \log (\text{test distance} / \text{specific distance})$  (dB)

**Receiver Spurious Emissions Test Result:**

**ISED Rule(s):** RSS-Gen  
**Test Requirements:** Blow the table  
**Operating conditions:** Under normal test conditions  
**Method of testing:** Radiated

F < 1 GHz: RBW: 120 kHz, VBW: 300 kHz (Quasi Peak)

**S/A. Settings:**  
F > 1 GHz: RBW: 1 MHz, VBW: 1 MHz (Peak)  
**Mode of operation:** Receive

Frequency (MHz)	Field Strength (microvolts/m at 3 meters)
30 – 88	100
88 - 216	150
216 – 960	200
Above 960	500

**Operation Mode: Receive:**

30 MHz ~ 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB $\mu$ N	dB /m	dB	(H/V)	dB $\mu$ N/m	dB $\mu$ N/m	dB
No critical peaks found							

Above 1 GHz

Frequency	Reading	Ant. factor	Cable loss	Ant. POL	Total	Limit	Margin
MHz	dB $\mu$ N	dB /m	dB	(H/V)	dB $\mu$ N/m	dB $\mu$ N/m	dB
No critical peaks found							

**Radiated Spurious Emissions Test Result:**

Harmonics were not found.

**FirstNet****[Downlink]**

Ch.	Freq.(MHz)	Measured Level [dBuV/m]	Measured Power [dBm]	Ant. Factor [dB/m]	C.L. [dB]	A.G. [dB]	H.P.F.. [dB]	D.F. [dB]	Pol.	Result [dBm]
No Critical Peaks Found										

\* C.L.: Cable Loss / A.G.: Ant. Gain / H.P.F.: High Pass Filter / D.F.: Distance Factor (3.75 m)

**[Uplink]**

Ch.	Freq.(MHz)	Measured Level [dBuV/m]	Measured Power [dBm]	Ant. Factor [dB/m]	C.L. [dB]	A.G. [dB]	H.P.F.. [dB]	D.F. [dB]	Pol.	Result [dBm]
No Critical Peaks Found										

\* C.L.: Cable Loss / A.G.: Ant. Gain / H.P.F.: High Pass Filter / D.F.: Distance Factor (3.75 m)

**Notes:**

We have done horizontal and vertical polarization in detecting antenna.

**PS 700****[Downlink]**

Ch.	Freq.(MHz)	Measured Level [dBuV/m]	Measured Power [dBm]	Ant. Factor [dB/m]	C.L. [dB]	A.G. [dB]	H.P.F.. [dB]	D.F. [dB]	Pol.	Result [dBm]
No Critical Peaks Found										

\* C.L.: Cable Loss / A.G.: Ant. Gain / H.P.F.: High Pass Filter / D.F.: Distance Factor (3.75 m)

**[Uplink]**

Ch.	Freq.(MHz)	Measured Level [dBuV/m]	Measured Power [dBm]	Ant. Factor [dB/m]	C.L. [dB]	A.G. [dB]	H.P.F.. [dB]	D.F. [dB]	Pol.	Result [dBm]
No Critical Peaks Found										

\* C.L.: Cable Loss / A.G.: Ant. Gain / H.P.F.: High Pass Filter / D.F.: Distance Factor (3.75 m)

**Notes:**

We have done horizontal and vertical polarization in detecting antenna.

**PS 800****[Downlink]**

Ch.	Freq.(MHz)	Measured Level [dBuV/m]	Measured Power [dBm]	Ant. Factor [dB/m]	C.L. [dB]	A.G. [dB]	H.P.F.. [dB]	D.F. [dB]	Pol.	Result [dBm]
No Critical Peaks Found										

\* C.L.: Cable Loss / A.G.: Ant. Gain / H.P.F.: High Pass Filter / D.F.: Distance Factor (3.75 m)

**[Uplink]**

Ch.	Freq.(MHz)	Measured Level [dBuV/m]	Measured Power [dBm]	Ant. Factor [dB/m]	C.L. [dB]	A.G. [dB]	H.P.F.. [dB]	D.F. [dB]	Pol.	Result [dBm]
No Critical Peaks Found										

\* C.L.: Cable Loss / A.G.: Ant. Gain / H.P.F.: High Pass Filter / D.F.: Distance Factor (3.75 m)

**Notes:**

We have done horizontal and vertical polarization in detecting antenna.

## 13. FREQUENCY STABILITY OVER TEMPERATURE AND VOLTAGE VARIATIONS

### FCC Rules

#### Test Requirements:

##### § 2.1055 Measurements required: Frequency stability.

(a) The frequency stability shall be measured with variation of ambient temperature as follows:

- (1) From -30° to + 50° centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.

##### § 90.213 Frequency stability.

(a) Unless noted elsewhere, transmitters used in the services governed by this part must have a minimum frequency stability as specified in the following table.

Frequency range (MHz)	Fixed and base stations	Minimum Frequency Stability		[Parts per million (ppm)]
		Over 2 watts output	2 watts or less output	
Below 25	100	100	200	
25-50	20	20	50	
72-76	5		50	
150-174	5	5	450	
216-220	1.0		1.0	
220-222 <sup>12</sup>	0.1	1.5	1.5	
421-512	2.5	5	5	
806-809	1.0	1.5	1.5	
809-824	1.5	2.5	2.5	
851-854	1.0	1.5	1.5	
854-869	1.5	2.5	2.5	
896-901	0.1	1.5	1.5	
902-928	2.5	2.5	2.5	
902-928 <sup>13</sup>	2.5	2.5	2.5	
929-930	1.5			
935-940	0.1	1.5	1.5	
1427-1435	300	300	300	
Above 2450				

(b) For the purpose of determining the frequency stability limits, the power of a transmitter is considered to be the maximum rated output power as specified by the manufacturer.

**§ 90.539 Frequency stability.**

Transmitters designed to operate in 769-775 MHz and 799-805 MHz frequency bands must meet the frequency stability requirements in this section.

- (a) Mobile, portable and control transmitters must normally use automatic frequency control (AFC) to lock on to the base station signal.
- (b) The frequency stability of base transmitters operating in the narrowband segment must be 100 parts per billion or better.
- (c) The frequency stability of mobile, portable, and control transmitters operating in the narrowband segment must be 400 parts per billion or better when AFC is locked to the base station. When AFC is not locked to the base station, the frequency stability must be at least 1.0 ppm for 6.25 kHz, 1.5 ppm for 12.5 kHz (2 channel aggregate), and 2.5 ppm for 25 kHz (4 channel aggregate).
- (d) The frequency stability of base transmitters operating in the wideband segment must be 1 part per million or better.
- (e) The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 parts per million or better when AFC is locked to a base station, and 5 parts per million or better when AFC is not locked.

**IC Rules****Test Requirements:****RSS-119****5. Transmitter and Receiver Specifications****5.3 Transmitter Frequency Stability**

The carrier frequency shall not depart from the reference frequency in excess of the values given in Table 1. For transmitters that have an output power of less than 120 mW, the frequency stability shall comply with the limits listed in Table 1 or, alternatively, with the conditions in Section 5.10.

For fixed and base station equipment, in lieu of meeting the frequency stability limit specified in Table 1, the test report can show that the frequency stability is met by demonstrating that the unwanted emission limits, related to the equipment's nominal carrier frequency measured under normal operation, are met when the equipment is tested at the temperature and supply voltage variations specified for the frequency stability measurement in RSS-Gen.

**Table 1 — Transmitter Frequency Stability**

<b>Frequency Band (MHz)</b>	<b>Channel Bandwidth (kHz)</b>	<b>Frequency Stability (ppm)</b>		
		<b>Base/Fixed</b>		<b>Mobile Station</b>
		<b>Output</b>	<b>Output</b>	

			<b>Power &gt;2 W</b>	<b>Power ≤2 W</b>
27.41-28 and 29.7-50	20	20	20	50
72-76	20	5	20	50
138-174	30	5	5	5
	15	2.5	5	5
	7.5	1	2	5
217-218 and 219-220	12.5	1	5	5
220-222	5	0.1	1.5	1.5
406.1-430 and 450-470	25	0.5	1	1
	25	2.5	5	5
	12.5	1.5	2.5	2.5
	6.25	0.5	1	1
768-776 and 798-806	25	0.1	0.4	0.4
	12.5			
	6.25			
	50	1	1.25	1.25
806-821/851-866 and 821-824/866- 869	25	0.1	0.1	0.1
	25	1.5	2.5	2.5
	12.5	1	1.5	1.5
	6.25	0.1	0.4	0.4
896-901/935-940	12.5	0.1	1.5	1.5
929-930/931-932	25	1.5	N/A	N/A
928-929/952-953 and 932-932.5/941- 941.5	25	1.5	N/A	N/A
	12.5	1	3 (for remote station)	N/A
932.5-935/941.5-944	25	2.5	N/A	N/A
	12.5	2.5	N/A	N/A

**Test Procedures:**

As required by 47 CFR 2.1055, *Frequency Stability measurements* were made at the RF output terminals using a Spectrum Analyzer.

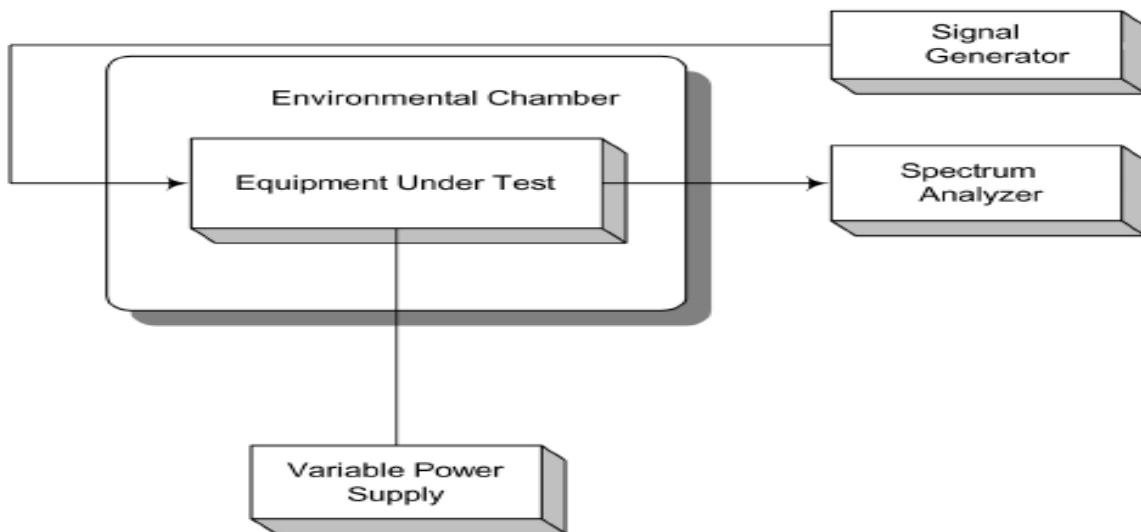
The EUT was placed in the Environmental Chamber.

A CW signal was injected into the EUT at the appropriate RF level. The frequency counter option on the Spectrum Analyzer was used to measure frequency deviations.

The frequency drift was investigated for every 10 °C increment until the unit is stabilized then recorded the reading in tabular format with the temperature range of -30 to 50 °C.

Voltage supplied to EUT is 110 Vac reference temperature was done at 20°C.

The voltage was varied by  $\pm 15\%$  of nominal

**Test Setup:**

\* Note: This EUT is supported power supply both of AC and DC. Test results are only attached worst cases.

### Frequency Stability and Voltage Test Results

**FirstNet**

**[Downlink]**

**Reference:** 120 Vac at 20°C    **Freq.** = 763.0 MHz

Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (Hz)	ppm
100%	+20(Ref)	763 000 000	-0.023	0.000	0.00000
	-30	762 999 999	-0.694	-0.671	-0.00088
	-20	762 999 999	-0.541	-0.518	-0.00068
	-10	763 000 000	-0.332	-0.309	-0.00040
	0	763 000 000	-0.110	-0.087	-0.00011
	+10	763 000 000	-0.500	-0.477	-0.00063
	+30	763 000 001	0.600	0.623	0.00082
	+40	763 000 000	0.230	0.253	0.00033
	+50	763 000 000	0.223	0.246	0.00032
	High	763 000 000	-0.150	-0.127	-0.00017
Low	+20	763 000 000	-0.003	0.020	0.00003

**[Uplink]**

**Reference:** 120 Vac at 20°C    **Freq.** = 793 MHz

Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (Hz)	ppm
100%	+20(Ref)	792 999 999	-0.650	0.000	0.00000
	-30	792 999 999	-1.233	-0.583	-0.00076
	-20	792 999 999	-0.569	0.081	0.00011
	-10	792 999 999	-0.548	0.102	0.00013
	0	792 999 999	-0.597	0.053	0.00007
	+10	792 999 999	-0.982	-0.332	-0.00044
	+30	793 000 001	0.800	1.450	0.00190
	+40	793 000 001	1.300	1.950	0.00256
	+50	793 000 000	0.397	1.047	0.00137
	High	792 999 999	-0.690	-0.040	-0.00005
Low	+20	793 000 000	-0.040	0.610	0.00080

**PS 700****[Downlink]**
**Reference:** 120 Vac at 20°C    **Freq.** = 772.0 MHz

Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (Hz)	ppm
100%	+20(Ref)	772 000 000	-0.113	0.000	0.00000
	-30	771 999 999	-1.350	-1.237	-0.00162
	-20	772 000 001	0.523	0.636	0.00083
	-10	772 000 001	0.997	1.110	0.00145
	0	772 000 000	0.230	0.343	0.00045
	+10	772 000 000	-0.136	-0.023	-0.00003
	+30	772 000 000	0.006	0.119	0.00016
	+40	772 000 001	0.930	1.043	0.00137
	+50	772 000 000	0.321	0.434	0.00057
	High	771 999 999	-1.320	-1.207	-0.00158
	Low	771 999 999	-0.743	-0.630	-0.00083

**[Uplink]**
**Reference:** 120 Vac at 20°C    **Freq.** = 802.0 MHz

Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (Hz)	ppm
100%	+20(Ref)	801 999 999	-0.663	0.000	0.00000
	-30	802 000 000	-0.155	0.508	0.00067
	-20	802 000 000	0.239	0.902	0.00118
	-10	802 000 001	0.883	1.546	0.00203
	0	802 000 000	0.199	0.862	0.00113
	+10	802 000 000	-0.335	0.328	0.00043
	+30	802 000 000	0.099	0.762	0.00100
	+40	801 999 999	-1.233	-0.570	-0.00075
	+50	802 000 001	1.029	1.692	0.00222
	High	801 999 999	-0.991	-0.328	-0.00043
	Low	802 000 000	-0.364	0.299	0.00039

**PS 800****[Downlink]**
**Reference:** 110 Vac at 20°C    **Freq.** = 856.0 MHz

Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (Hz)	ppm
100%	+20(Ref)	856 000 000	-0.023	0.000	0.00000
	-30	856 000 000	-0.216	-0.193	-0.00025
	-20	856 000 000	-0.226	-0.203	-0.00027
	-10	856 000 001	0.795	0.818	0.00107
	0	856 000 000	0.126	0.149	0.00020
	+10	855 999 999	-0.854	-0.831	-0.00109
	+30	856 000 000	-0.156	-0.133	-0.00017
	+40	856 000 000	-0.123	-0.100	-0.00013
	+50	856 000 002	1.569	1.592	0.00209
	High	856 000 001	0.885	0.908	0.00119
Low	+20	856 000 000	-0.216	-0.193	-0.00025

**[Uplink]**
**Reference:** 110 Vac at 20°C    **Freq.** = 811.0 MHz

Voltage (%)	Temp. (°C)	Frequency (Hz)	Frequency Error (Hz)	Deviation (Hz)	ppm
100%	+20(Ref)	810 999 999	-0.663	0.000	0.00000
	-30	810 999 999	-0.900	-0.237	-0.00031
	-20	811 000 001	0.590	1.253	0.00164
	-10	811 000 001	0.921	1.584	0.00208
	0	811 000 000	0.364	1.027	0.00135
	+10	811 000 000	-0.219	0.444	0.00058
	+30	810 999 999	-0.843	-0.180	-0.00024
	+40	810 999 999	-0.622	0.041	0.00005
	+50	811 000 001	1.312	1.975	0.00259
	High	811 000 001	0.953	1.616	0.00212
Low	+20	811 000 000	-0.186	0.477	0.00063