7.2.4.1 Measurement Record:

No emissions were detected within 20dB below the limit for the Downlink direction.

Downlink 758MHz to 775MHz:

Lowest Channel					
Frequency	Spurious Emission Level			Limit	Over limit
(MHz)	(Deg)	Polaxis	(dBm)	dBm	(dB)
188.993333	134.0	H	-55.70	-13.0	-42.70
349.993333	41.0	H	-56.53	-13.0	-43.53
450.000000	253.0	H	-62.56	-13.0	-49.56
549.962500	130.0	H	-64.73	-13.0	-51.73
825.191667	195.0	H	-49.48	-13.0	-36.48
3670.800000	346.0	H	-51.48	-13.0	-38.48
4177.150000	346.0	H	-45.72	-13.0	-32.72
5704.975000	334.0	H	-51.30	-13.0	-38.30
7884.750000	218.0	H	-48.87	-13.0	-35.87
9398.925000	346.0	H	-45.26	-13.0	-32.26

Lowest Channel					
Frequency	Spurious Emission Level			Limit	Over limit
(MHz)	(Deg)	Polaxis	(dBm)	dBm	(dB)
149.980000	86.0	V	-65.02	-13.0	-52.02
188.666667	133.0	V	-55.66	-13.0	-42.66
249.986667	252.0	V	-66.86	-13.0	-53.86
349.993333	133.0	V	-58.21	-13.0	-45.21
549.962500	46.0	V	-63.07	-13.0	-50.07
3671.125000	323.0	V	-50.02	-13.0	-37.02
4177.150000	0.0	V	-43.63	-13.0	-30.63
6265.925000	359.0	V	-47.09	-13.0	-34.09
7884.750000	301.0	V	-47.05	-13.0	-34.05
8557.500000	335.0	V	-47.68	-13.0	-34.68

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Middle Channel					
Frequency	Spurious Emission Level			Limit	Over limit
(MHz)	(Deg)	Polaxis	(dBm)	dBm	(dB)
191.373333	151.0	H	-56.54	-13.0	-43.54
249.986667	252.0	H	-65.30	-13.0	-52.30
349.993333	40.0	H	-56.48	-13.0	-43.48
450.000000	252.0	H	-62.18	-13.0	-49.18
549.962500	149.0	H	-64.48	-13.0	-51.48
3670.800000	345.0	H	-51.74	-13.0	-38.74
4176.825000	345.0	H	-45.72	-13.0	-32.72
5704.975000	334.0	H	-51.88	-13.0	-38.88
7885.075000	219.0	H	-49.51	-13.0	-36.51
9398.925000	345.0	H	-45.05	-13.0	-32.05

Middle Channel					
Frequency	Spurious Emission Level			Limit	Over limit
(MHz)	(Deg)	Polaxis	(dBm)	dBm	(dB)
149.980000	78.0	V	-65.46	-13.0	-52.46
189.226667	134.0	V	-55.91	-13.0	-42.91
349.993333	134.0	V	-58.75	-13.0	-45.75
450.000000	84.0	V	-65.95	-13.0	-52.95
549.962500	56.0	V	-64.36	-13.0	-51.36
3670.800000	345.0	V	-49.13	-13.0	-36.13
4177.150000	0.0	V	-44.01	-13.0	-31.01
6265.925000	358.0	V	-47.24	-13.0	-34.24
7884.750000	309.0	V	-46.81	-13.0	-33.81
8557.500000	334.0	V	-49.64	-13.0	-36.64

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Highest Channel					
Frequency	Spurious Emission Level			Limit	Over limit
(MHz)	(Deg)	Polaxis	(dBm)	dBm	(dB)
149.980000	271.0	H	-66.04	-13.0	-53.04
189.413333	161.0	H	-55.40	-13.0	-42.40
349.993333	41.0	H	-56.78	-13.0	-43.78
450.000000	114.0	H	-62.15	-13.0	-49.15
549.962500	142.0	H	-65.53	-13.0	-52.53
3670.800000	345.0	H	-51.74	-13.0	-38.74
4177.150000	345.0	H	-44.95	-13.0	-31.95
5704.650000	333.0	H	-52.33	-13.0	-39.33
7885.075000	218.0	H	-48.80	-13.0	-35.80
9398.925000	345.0	H	-45.25	-13.0	-32.25

Highest Channel					
Frequency	Spurious Emission Level			Limit	Over limit
(MHz)	(Deg)	Polaxis	(dBm)	dBm	(dB)
149.980000	79.0	V	-66.31	-13.0	-53.31
189.553333	88.0	V	-54.76	-13.0	-41.76
349.993333	142.0	V	-59.04	-13.0	-46.04
450.000000	113.0	V	-66.36	-13.0	-53.36
550.008333	56.0	V	-63.95	-13.0	-50.95
3670.800000	348.0	V	-51.11	-13.0	-38.11
4177.150000	0.0	V	-43.93	-13.0	-30.93
6265.600000	359.0	V	-47.32	-13.0	-34.32
7884.750000	312.0	V	-47.23	-13.0	-34.23
8557.175000	335.0	V	-48.06	-13.0	-35.06

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Downlink 851MHz to 869MHz:

Lowest Channel					
Frequency	Spurious Emission Level			Limit	Over limit
(MHz)	(Deg)	Polaxis	(dBm)	dBm	(dB)
188.806667	152.0	H	-54.70	-13.0	-41.70
349.993333	31.0	H	-56.91	-13.0	-43.91
450.000000	245.0	H	-62.29	-13.0	-49.29
549.962500	151.0	H	-65.02	-13.0	-52.02
1702.000000	309.0	H	-48.21	-13.0	-35.21
3670.800000	345.0	H	-51.99	-13.0	-38.99
4177.150000	345.0	H	-45.19	-13.0	-32.19
5704.975000	333.0	H	-52.28	-13.0	-39.28
7884.425000	252.0	H	-48.70	-13.0	-35.70
9398.925000	345.0	H	-45.07	-13.0	-32.07

Lowest Channel					
Frequency	Spurious Emission Level			Limit	Over limit
(MHz)	(Deg)	Polaxis	(dBm)	dBm	(dB)
149.980000	105.0	V	-65.86	-13.0	-52.86
188.480000	114.0	V	-55.53	-13.0	-42.53
349.993333	143.0	V	-59.56	-13.0	-46.56
549.962500	63.0	V	-63.97	-13.0	-50.97
1702.000000	349.0	V	-48.24	-13.0	-35.24
3671.125000	334.0	V	-50.02	-13.0	-37.02
4177.150000	0.0	V	-44.30	-13.0	-31.30
6265.925000	0.0	V	-48.16	-13.0	-35.16
7884.750000	334.0	V	-47.19	-13.0	-34.19
8557.500000	334.0	V	-47.98	-13.0	-34.98

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Middle Channel					
Frequency	Spurious Emission Level			Limit	Over limit
(MHz)	(Deg)	Polaxis	(dBm)	dBm	(dB)
190.206667	134.0	H	-54.22	-13.0	-41.22
250.033333	252.0	H	-65.33	-13.0	-52.33
349.993333	31.0	H	-57.14	-13.0	-44.14
450.000000	233.0	H	-62.90	-13.0	-49.90
1720.000000	325.0	H	-47.12	-13.0	-34.12
3671.125000	347.0	H	-51.87	-13.0	-38.87
4177.150000	347.0	H	-45.39	-13.0	-32.39
5704.650000	335.0	H	-52.17	-13.0	-39.17
7884.750000	243.0	H	-49.25	-13.0	-36.25
9398.925000	347.0	H	-47.18	-13.0	-34.18

Middle Channel					
Frequency	Spurious Emission Level			Limit	Over limit
(MHz)	(Deg)	Polaxis	(dBm)	dBm	(dB)
149.980000	96.0	V	-65.23	-13.0	-52.23
188.946667	141.0	V	-54.58	-13.0	-41.58
349.993333	132.0	V	-59.63	-13.0	-46.63
550.008333	64.0	V	-65.13	-13.0	-52.13
1720.000000	343.0	V	-45.26	-13.0	-32.26
3670.800000	345.0	V	-50.57	-13.0	-37.57
4177.150000	0.0	V	-44.46	-13.0	-31.46
6265.600000	359.0	V	-48.37	-13.0	-35.37
7884.750000	310.0	V	-47.61	-13.0	-34.61
8557.500000	333.0	V	-49.59	-13.0	-36.59

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Highest Channel					
Frequency	Spurious Emission Level			Limit	Over limit
(MHz)	(Deg)	Polaxis	(dBm)	dBm	(dB)
189.086667	139.0	H	-55.28	-13.0	-42.28
249.986667	260.0	H	-65.42	-13.0	-52.42
349.993333	29.0	H	-57.08	-13.0	-44.08
450.000000	242.0	H	-63.55	-13.0	-50.55
1738.000000	324.0	H	-44.46	-13.0	-31.46
3670.800000	345.0	H	-51.80	-13.0	-38.80
4177.150000	345.0	H	-45.71	-13.0	-32.71
5704.650000	334.0	H	-52.91	-13.0	-39.91
7884.425000	252.0	H	-49.17	-13.0	-36.17
9398.925000	345.0	H	-45.92	-13.0	-32.92

Highest Channel					
Frequency	Spurious Emission Level			Limit	Over limit
(MHz)	(Deg)	Polaxis	(dBm)	dBm	(dB)
189.180000	123.0	V	-56.29	-13.0	-43.29
249.986667	251.0	V	-66.70	-13.0	-53.70
349.993333	141.0	V	-59.47	-13.0	-46.47
549.962500	65.0	V	-65.04	-13.0	-52.04
1738.000000	0.0	V	-43.56	-13.0	-30.56
3671.125000	28.0	V	-50.73	-13.0	-37.73
4177.150000	359.0	V	-44.81	-13.0	-31.81
6265.925000	359.0	V	-47.57	-13.0	-34.57
7884.750000	311.0	V	-46.73	-13.0	-33.73
8557.175000	335.0	V	-48.74	-13.0	-35.74

Remark:

The cabinet radiation was measured with the equipment transmitting a CW signal into a non-radiating 50 Ohm load at maximum output power on a signal frequency.

Measured were performed in the lowest, middle and highest frequency for the Downlink.

The spectrum was searched from 30MHz to 12.75GHz (10th Harmonic) for downlink.

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7.2.5 Input-versus-output signal comparison

Test Requirement: For 758-775MHz: 47 CFR Part 90.210, 47 CFR Part 90.219(e)(4)
For 851-869MHz: 47 CFR Part 2.1049

Test Method: KDB 935210 D05 Indus Booster Basic Meas v01r04

Limit: Shall within the passband

EUT Operation:

Status: Drive the EUT to maximum output power. .

Conditions: Normal conditions

Application: RF output ports

Test Configuration:

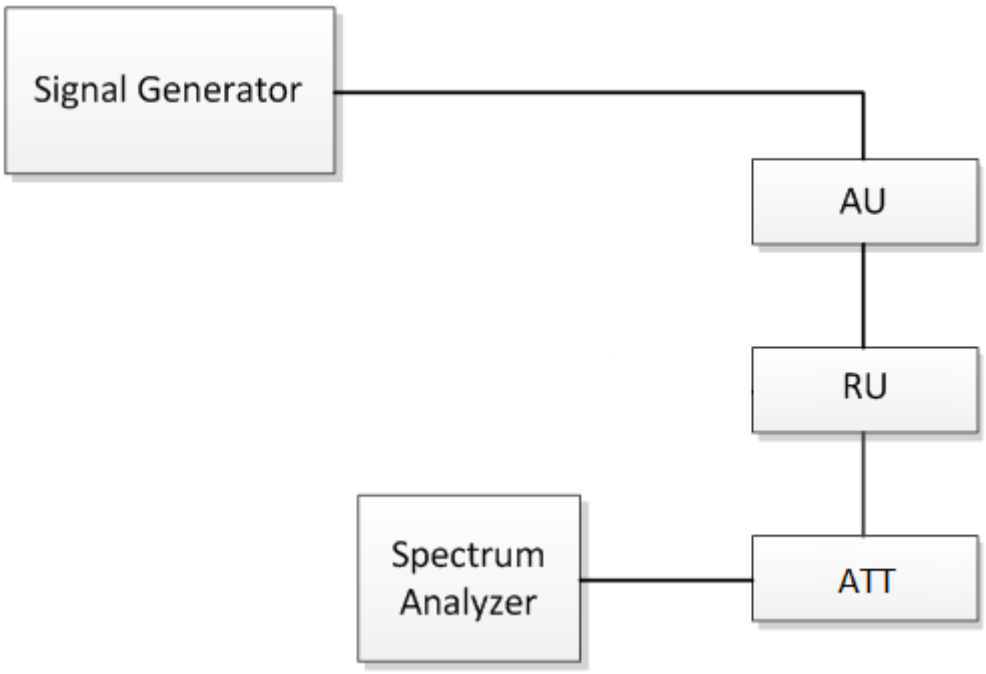

Fig.4. Input-versus-output signal comparison test configuration

Test Procedure:

a) Connect a signal generator to the input of the EUT.

b) Configure the signal generator to transmit the appropriate test signal associated with the public safety emission designation (see Table 1).

c) Configure the signal level to be just below the AGC threshold (see results from 4.2).

d) Connect a spectrum analyzer to the output of the EUT using appropriate attenuation as necessary.

e) Set the spectrum analyzer center frequency to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between 2 × to 5 × the EBW (or OBW).

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f) The nominal RBW shall be 300 Hz for 16K0F3E, and 100 Hz for all other emissions types.

g) Set the reference level of the spectrum analyzer to accommodate the maximum input amplitude level, i.e., the level at f0 per 4.3.

h) Set spectrum analyzer detection mode to peak, and trace mode to max hold.

i) Allow the trace to fully stabilize.

j) Confirm that the signal is contained within the appropriate emissions mask.

k) Use the marker function to determine the maximum emission level and record the associated frequency.

l) Capture the emissions mask plot for inclusion in the test report (output signal spectra).

m) Measure the EUT input signal power (signal generator output signal) directly from the signal generator using power measurement guidance provided in KDB Publication 971168 [R8] (input signal spectra).

n) Compare the spectral plot of the output signal (determined in step k), to the input signal (determined in step l) to affirm they are similar (in passband and rolloff characteristic features and relative spectral locations).

o) Repeat steps d) to n) with the input signal amplitude set 3 dB above the AGC threshold.

p) Repeat steps b) to o) for all authorized operational bands and emissions types (see applicable regulatory specifications, e.g., Section 90.210).

q) Include all accumulated spectral plots depicting EUT input signal and EUT output signal in the test report, and note any observed dissimilarities.

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7.2.5.1 Measurement Record:

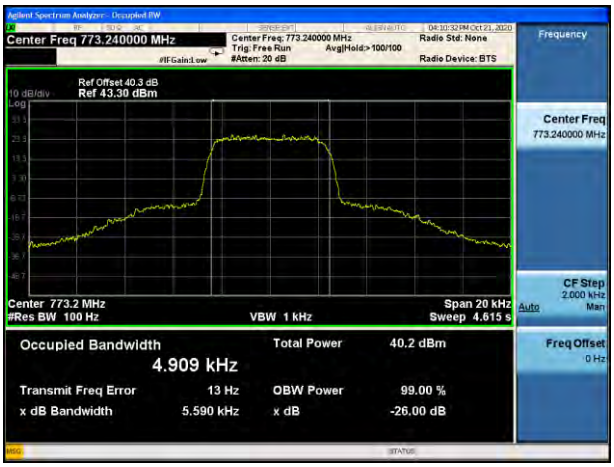
1.Downlink: 758MHz to 775MHz

1.1 Occupied Bandwidth

1.1.1 6.25kHz CQPSK Pre-AGC

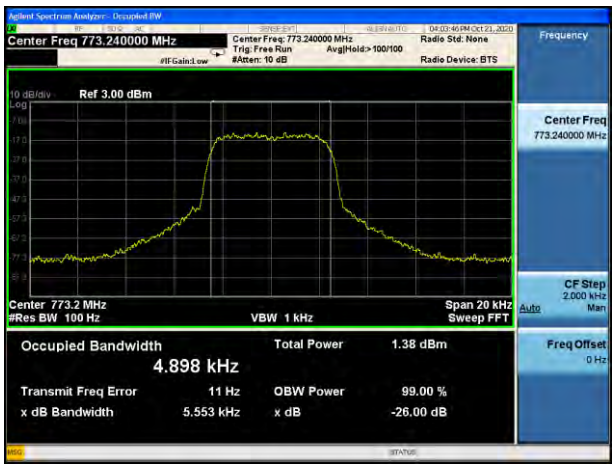
Input

Output



1.1.2 6.25kHz CQPSK 3dB above AGC

Input



Output

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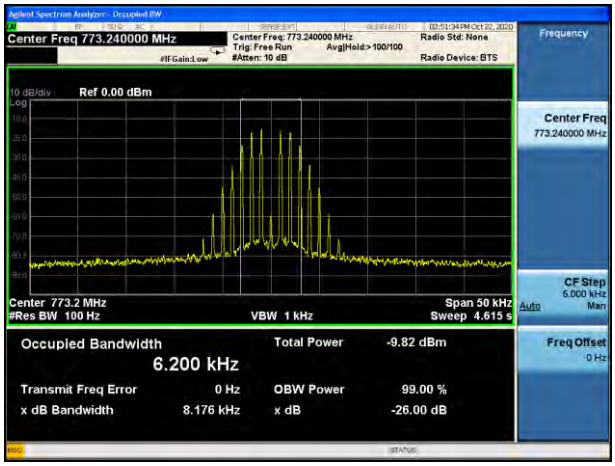
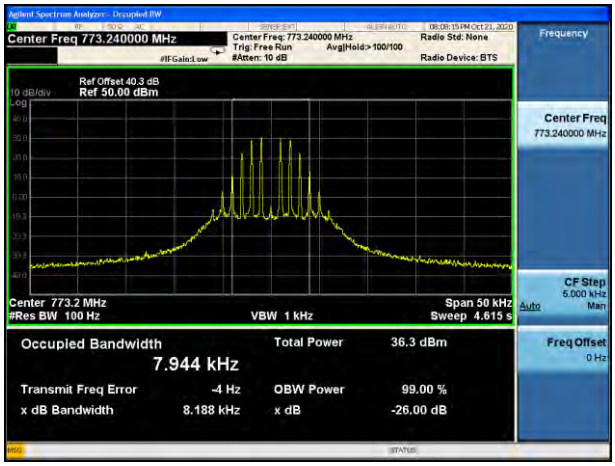
1.1.2 12.5kHz FM Pre-AGC

Input

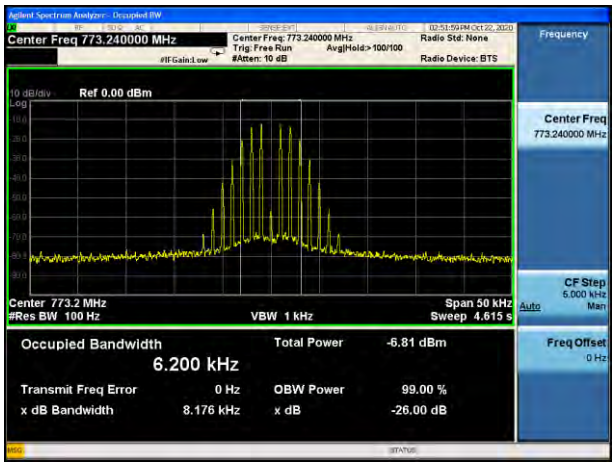


Output

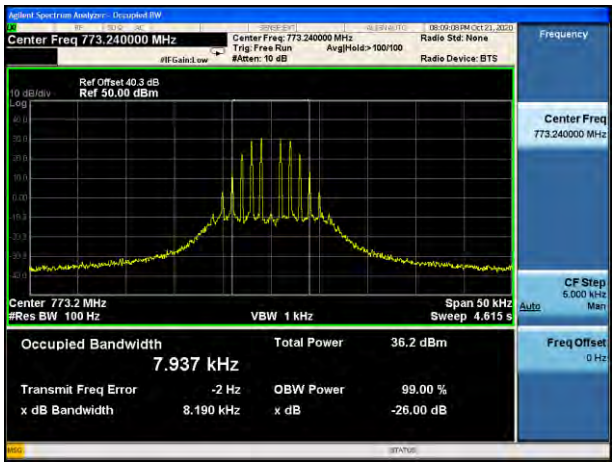


1.1.2 12.5kHz FM 3dB above AGC

Input



Output



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Inspection & Testing Services
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch China Technical Services CSTC Laboratory

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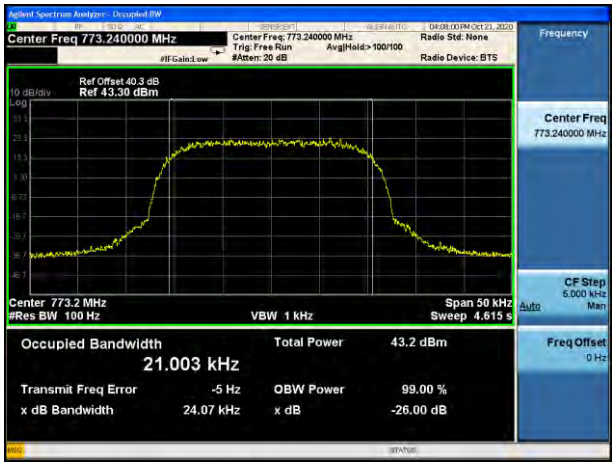
1.1.3 25kHz TETRA Pre-AGC

Input

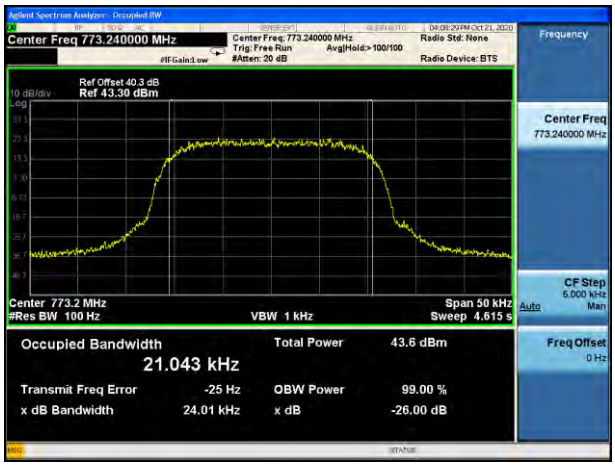
Output



1.1.3 25kHz TETRA 3dB above AGC

Input

Output



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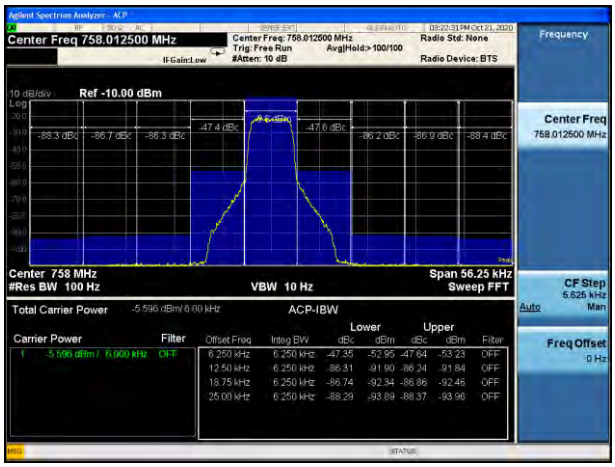
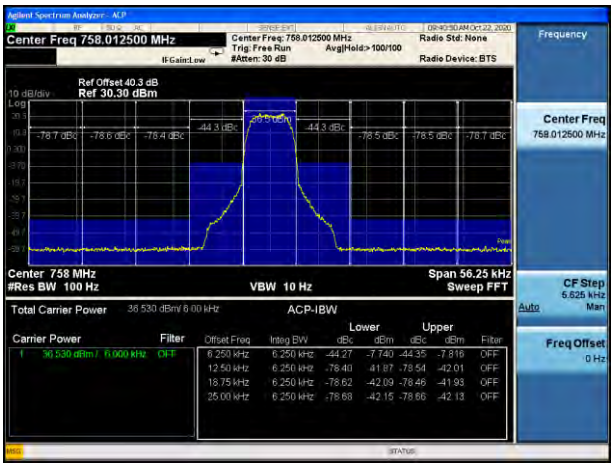
1.2 Adjacent Channel Power (6.25kHz CQPSK)

1.2.1 Pre-AGC_ Lowest frequency

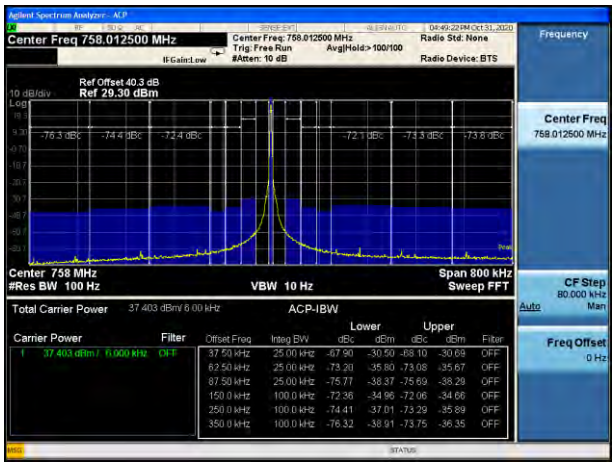
Input



Output



Output



Output

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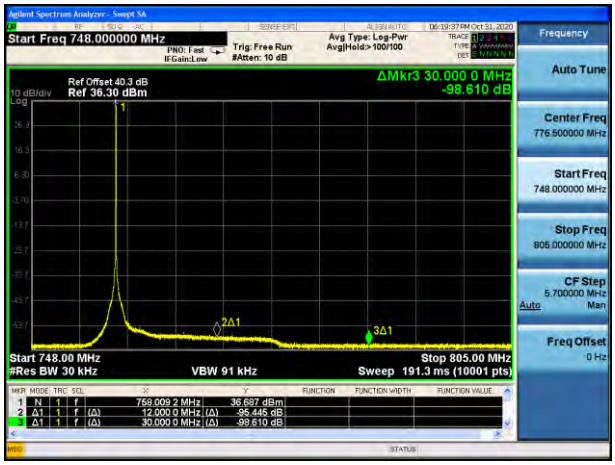
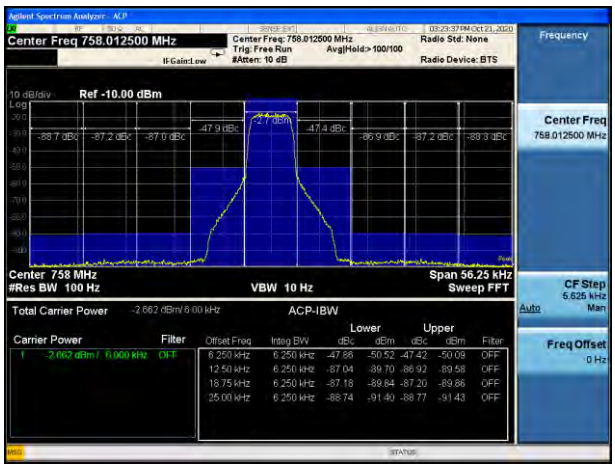
Output

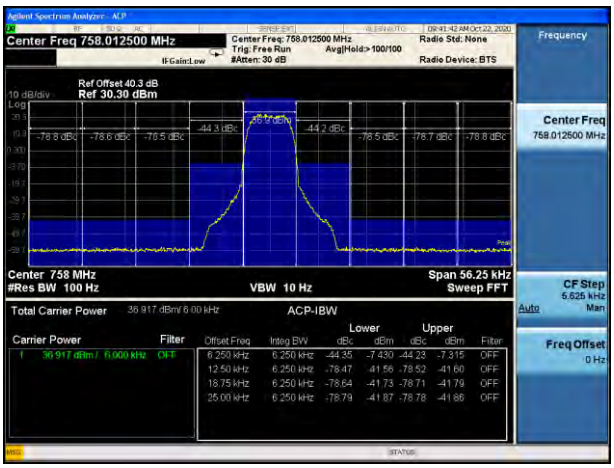


1.2.2 3dB above AGC_ Lowest frequency

Input



Output



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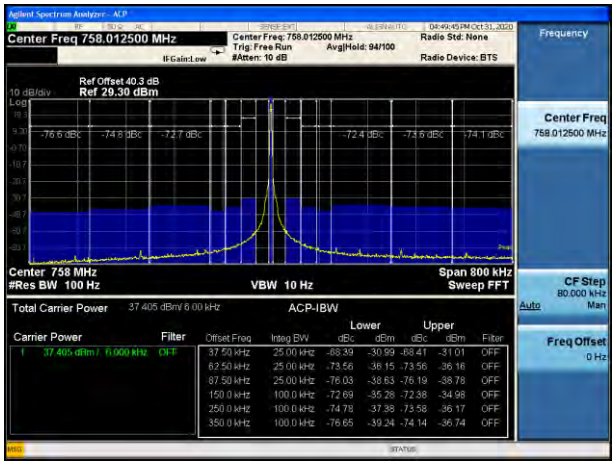
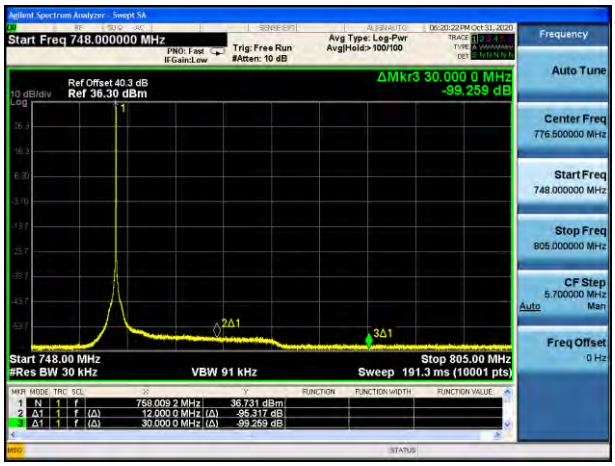
Output



Output

Output



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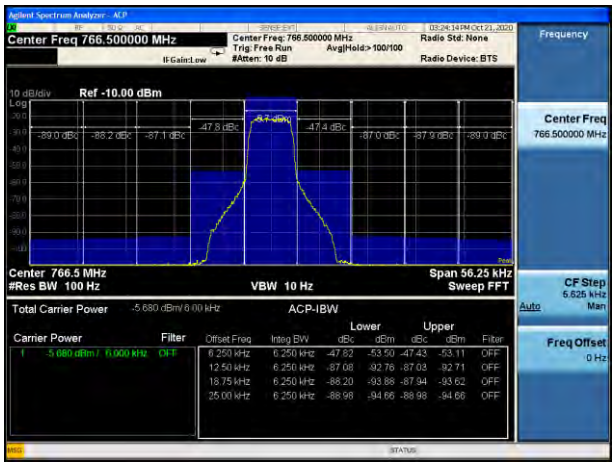
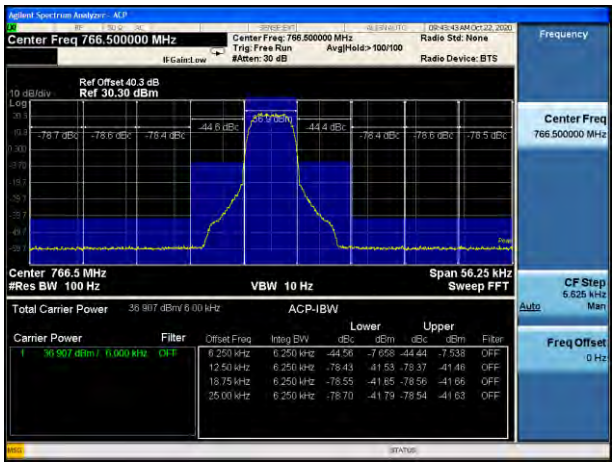
1.2.3 Pre-AGC_ Middle frequency

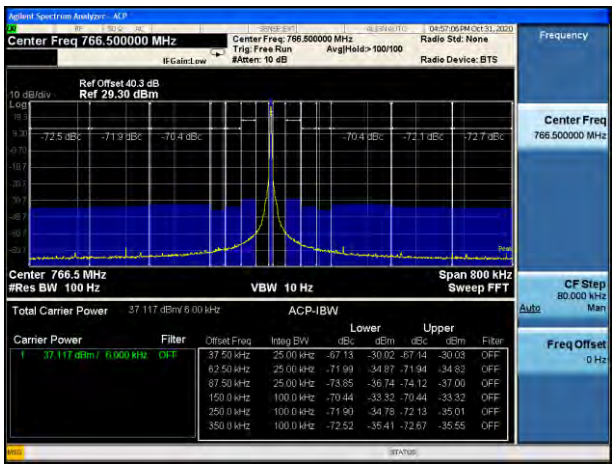
Input



Output



Output



Output

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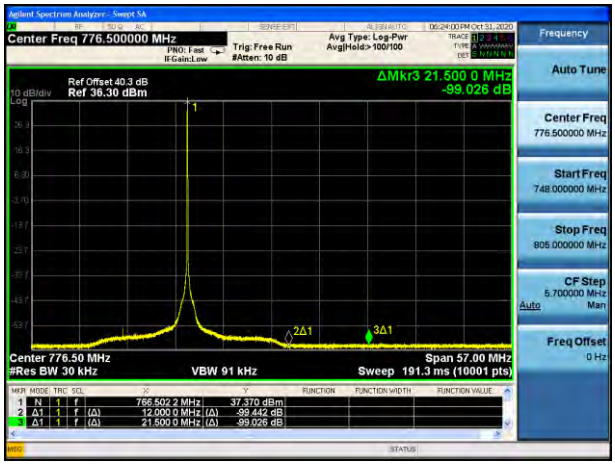
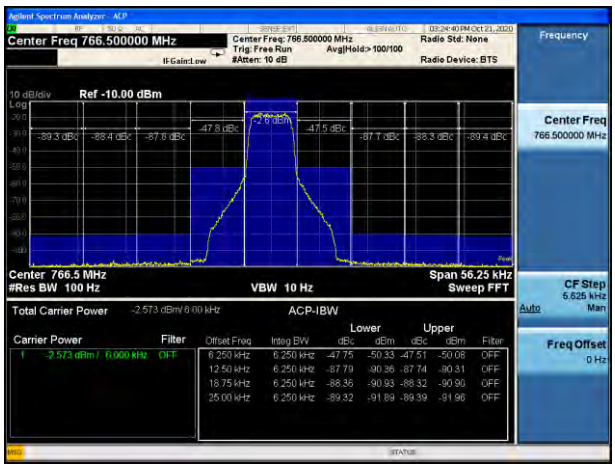
Output

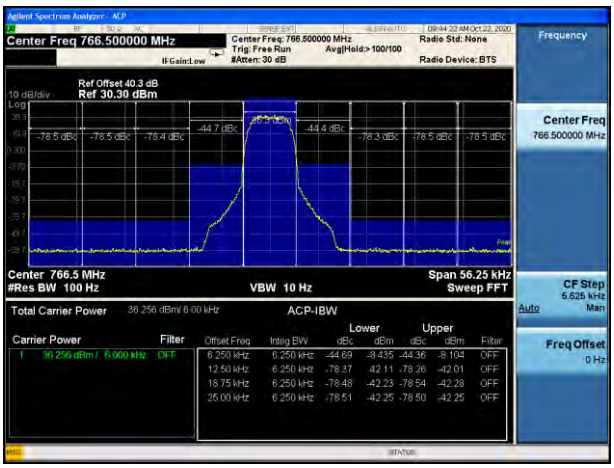


1.2.4 3dB above AGC_ Middle frequency

Input



Output



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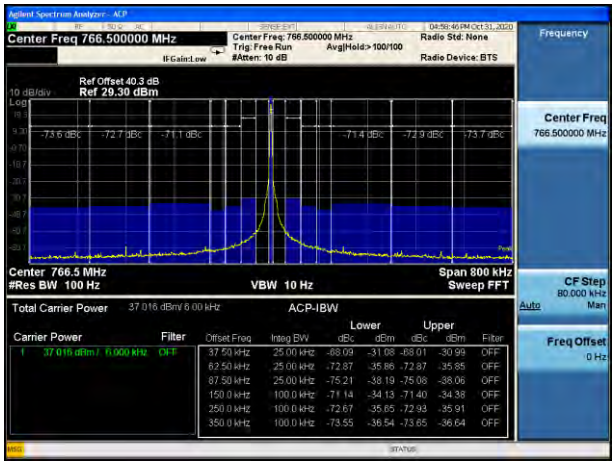
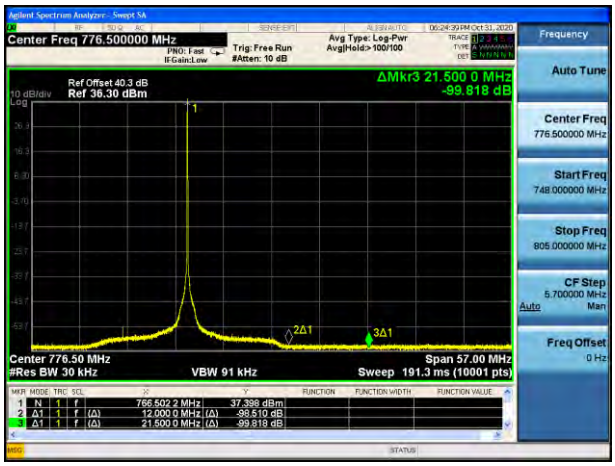
Output



Output

Output



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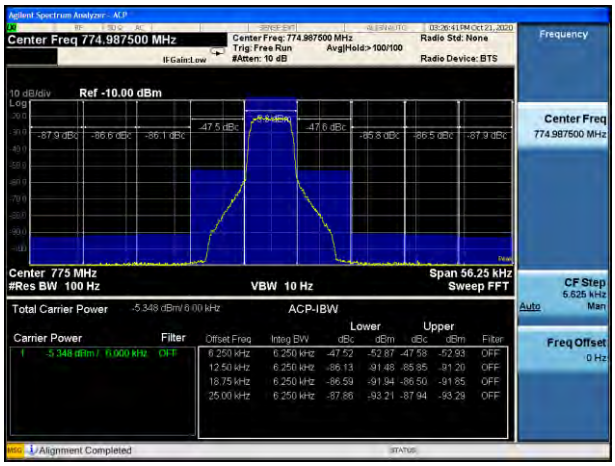
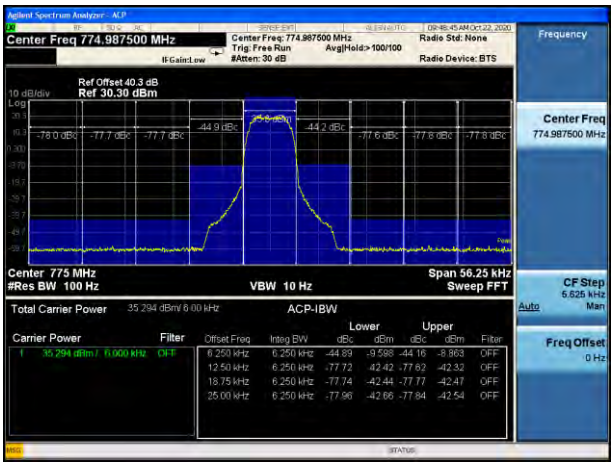
1.2.5 Pre-AGC_ Highest frequency

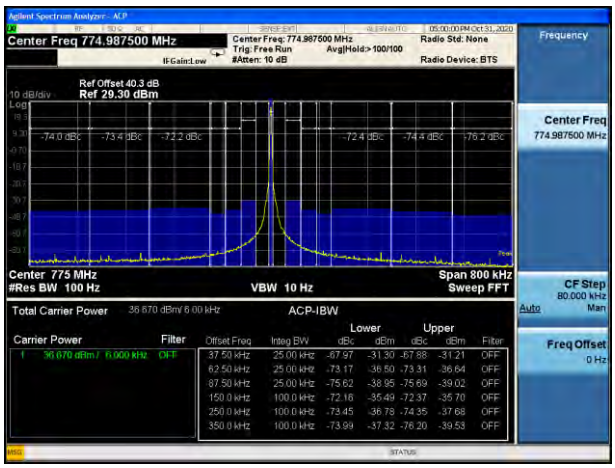
Input



Output



Output



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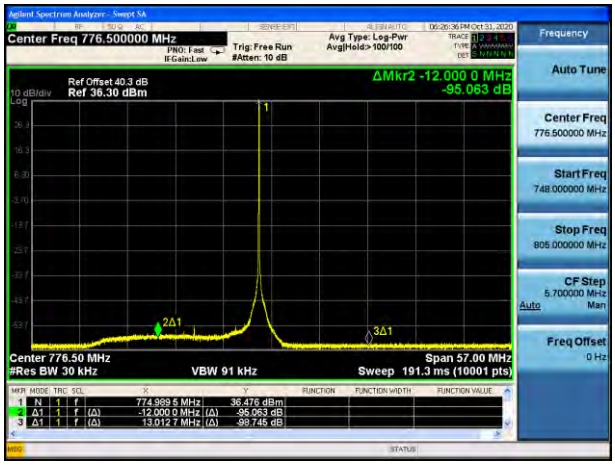
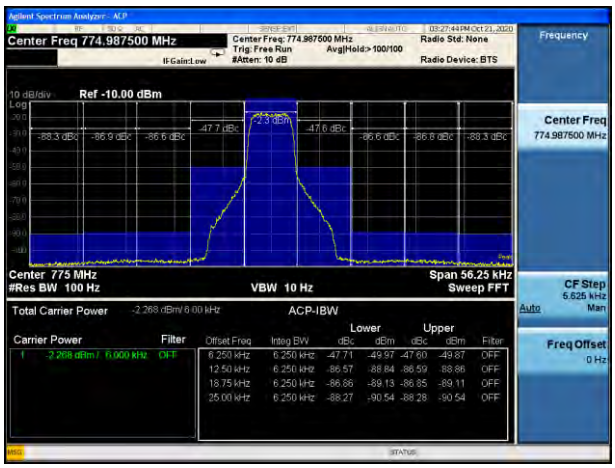
Output

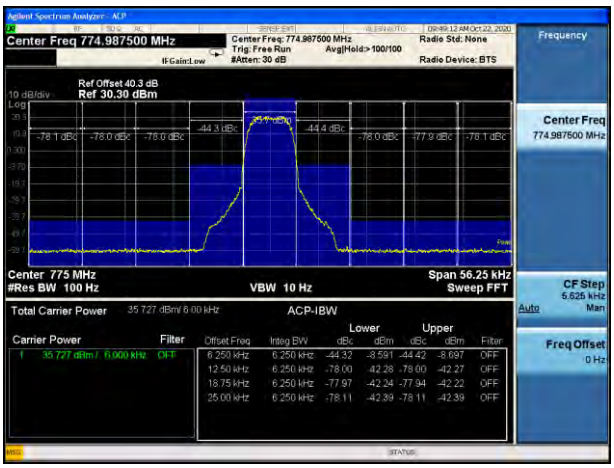


1.2.6 3dB above AGC_ Highest frequency

Input



Output



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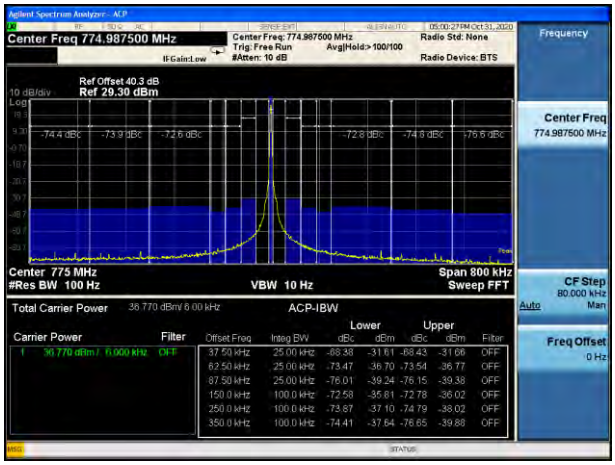
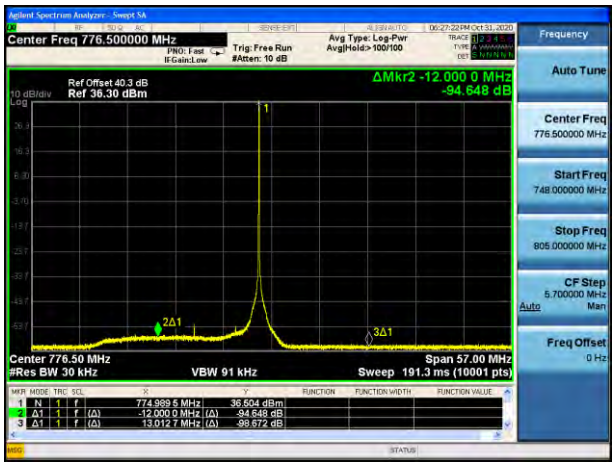
Output



Output

Output



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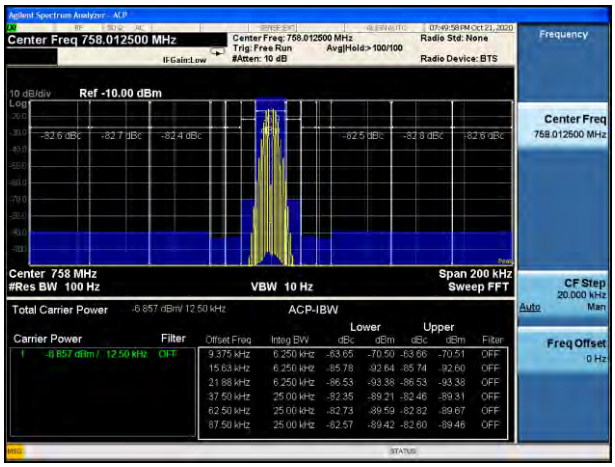
1.3 Adjacent Channel Power (12.5kHz FM)

1.3.1 Pre-AGC_ Lowest frequency

Input



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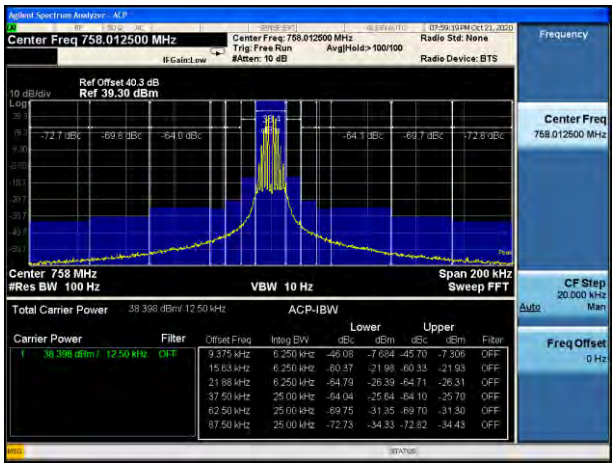

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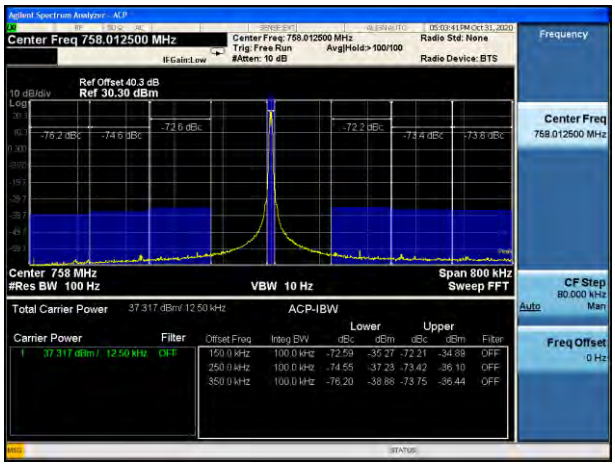

Output

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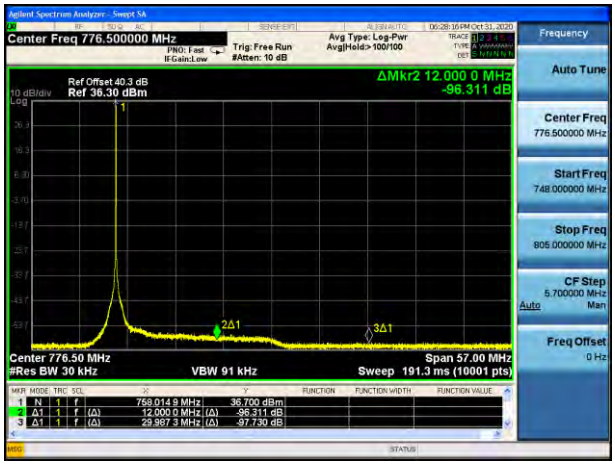
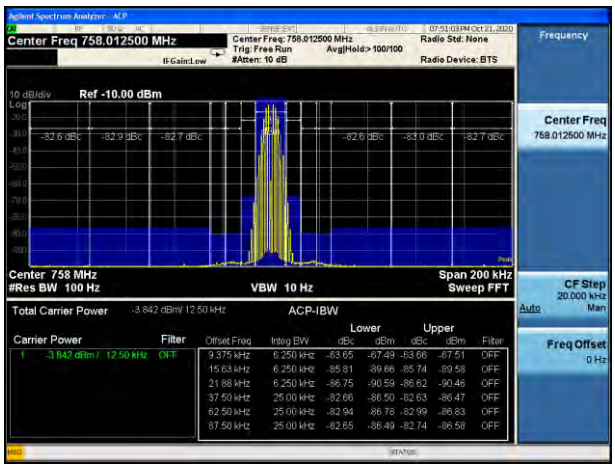
Output

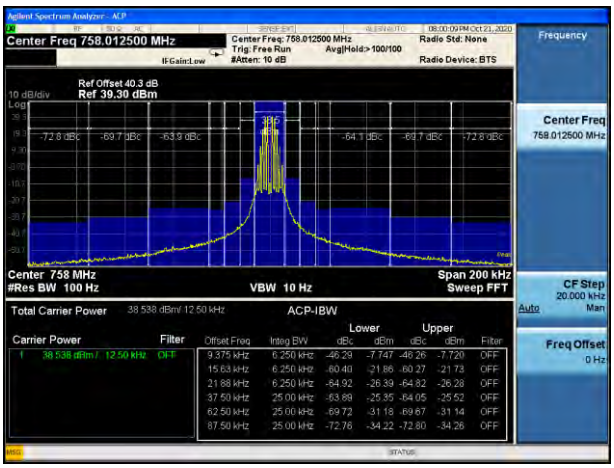


1.3.2 3dB above AGC_ Lowest frequency

Input



Output



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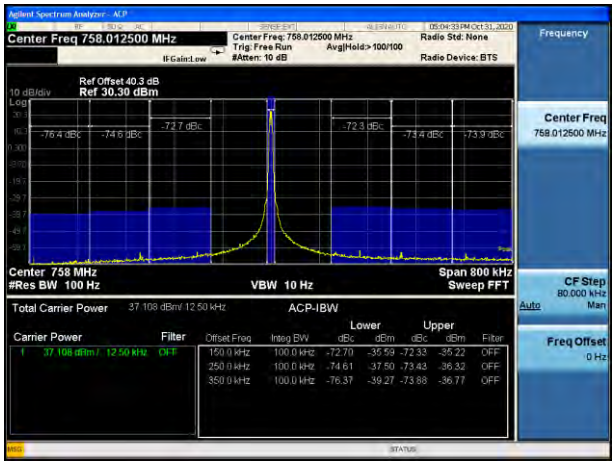
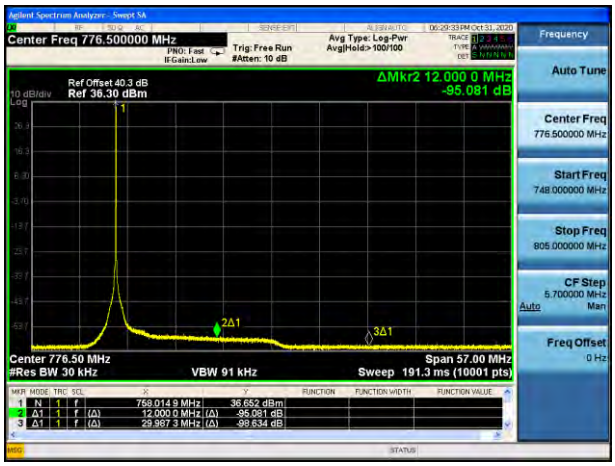
Output



Output

Output



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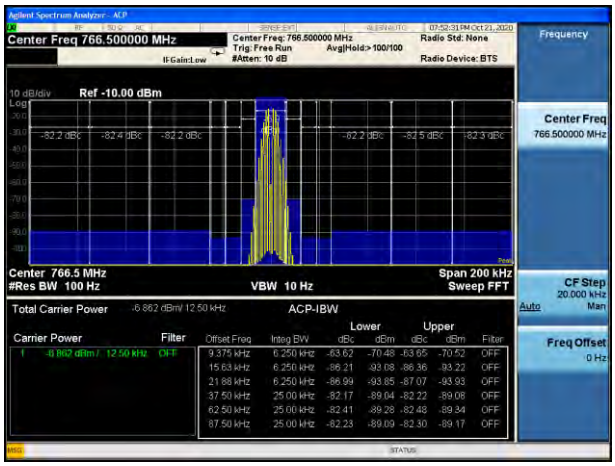
1.3.3 Pre-AGC_ Middle frequency

Input



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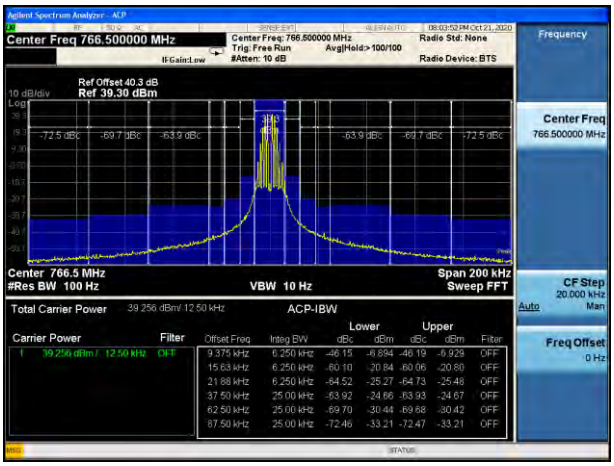

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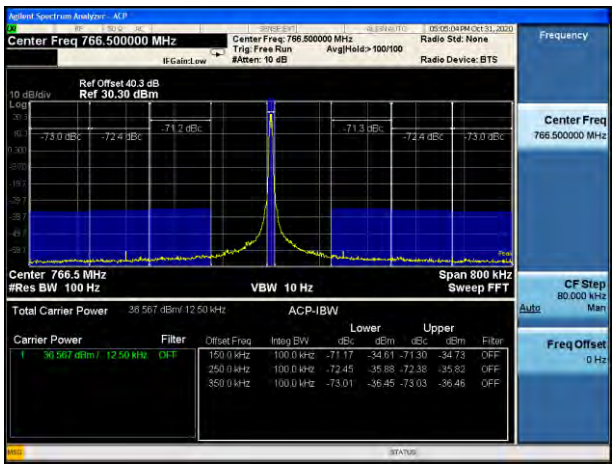

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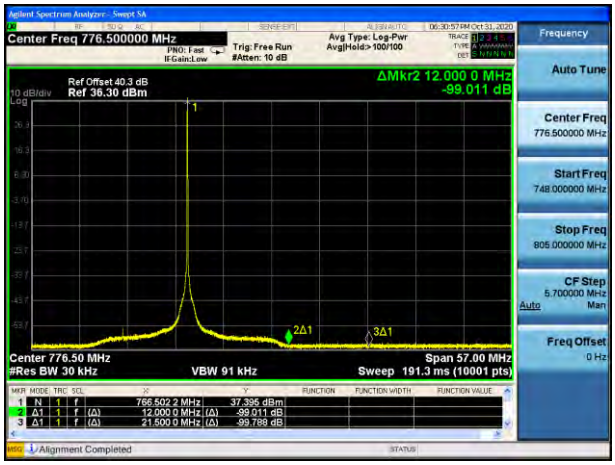
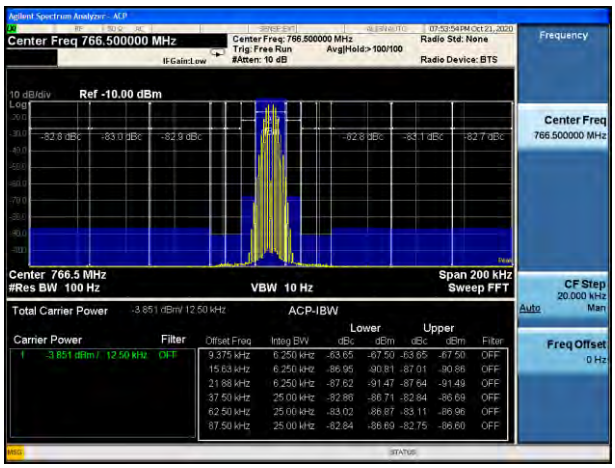
Output



1.3.4 3dB above AGC_ Middle frequency

Input



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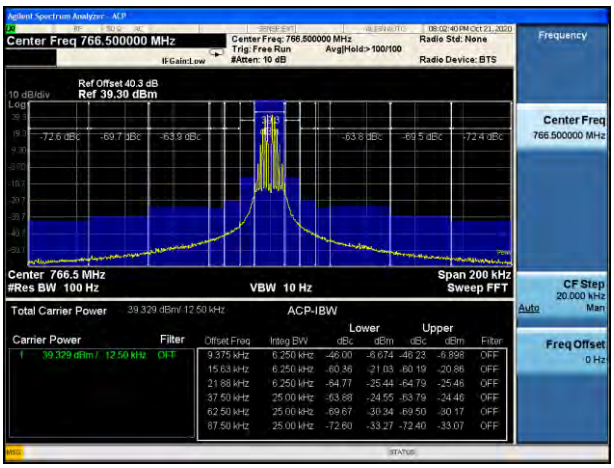

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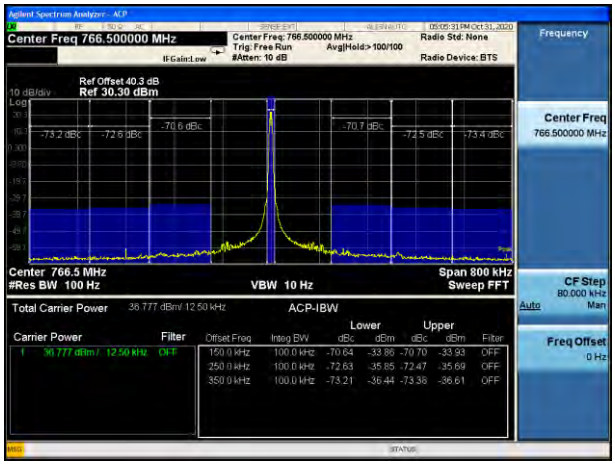
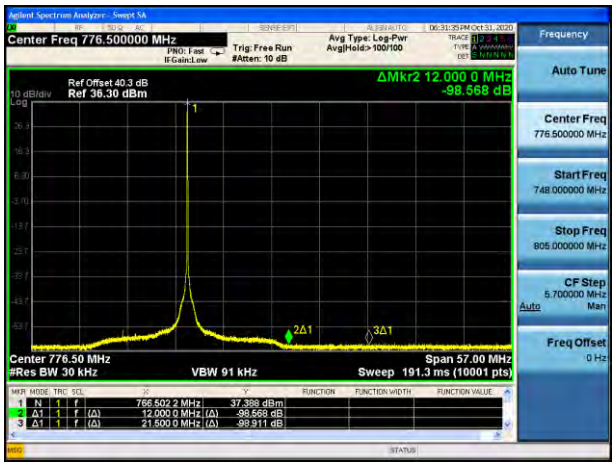
Output



Output

Output



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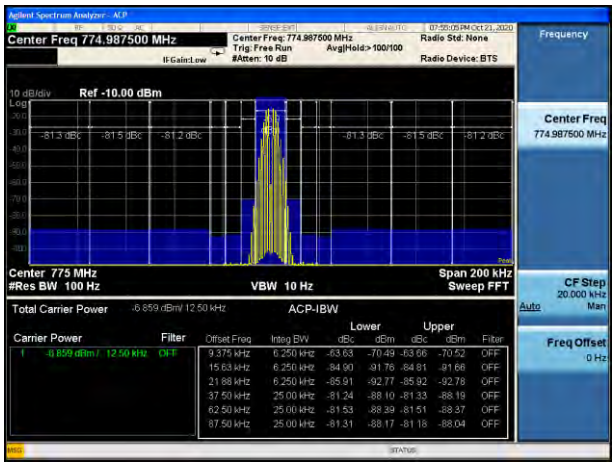
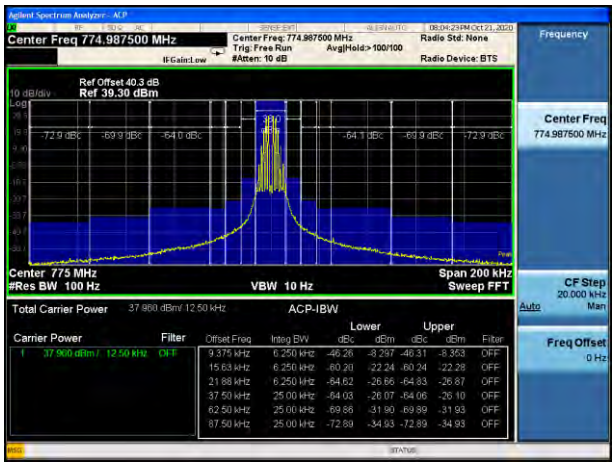
1.3.5 Pre-AGC_ Highest frequency

Input



Output



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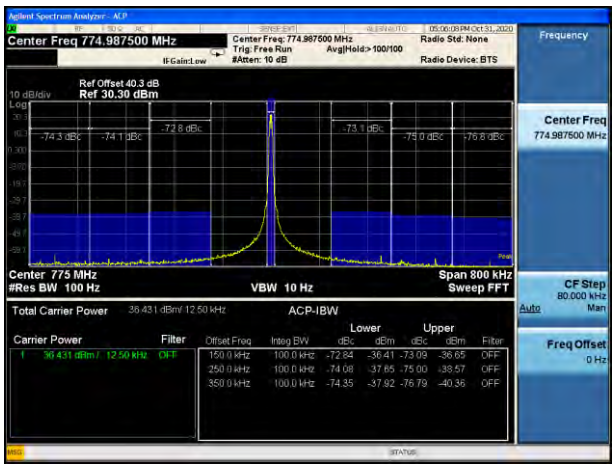

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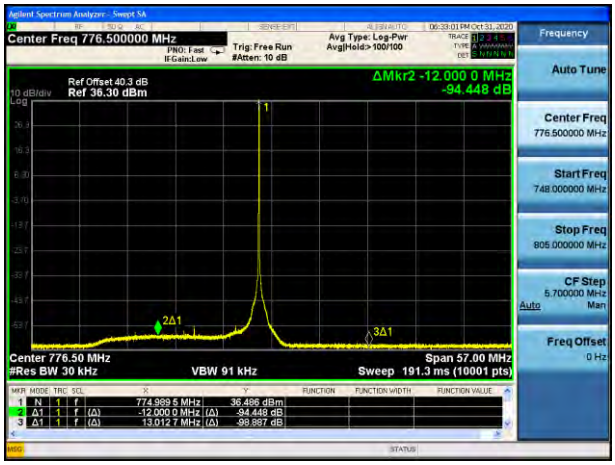
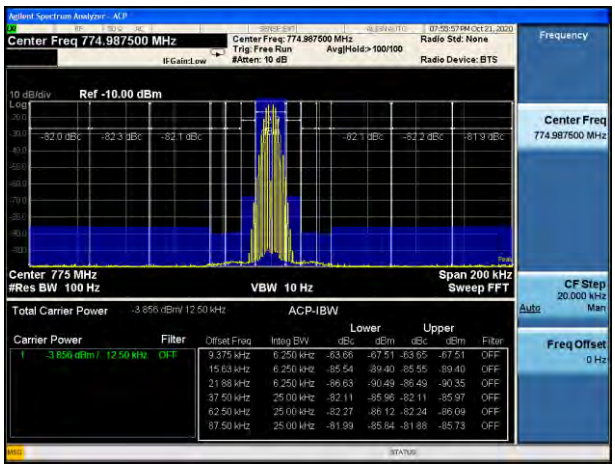
Output

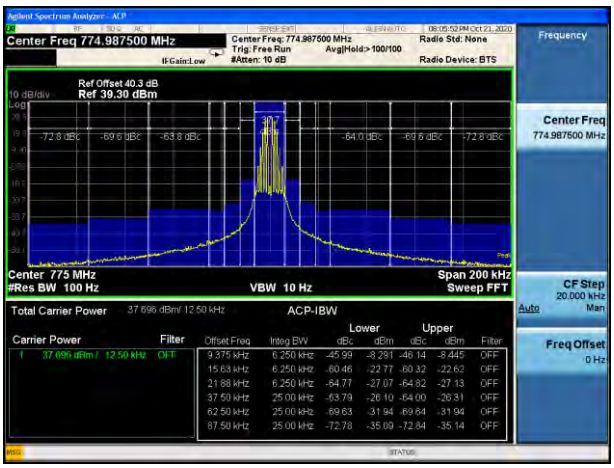


1.3.6 3dB above AGC_ Highest frequency

Input



Output



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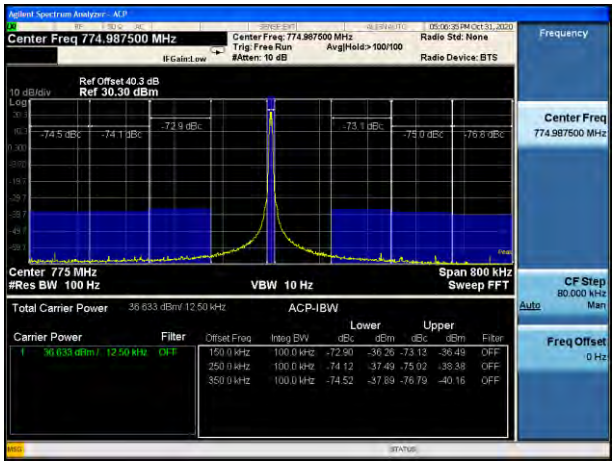
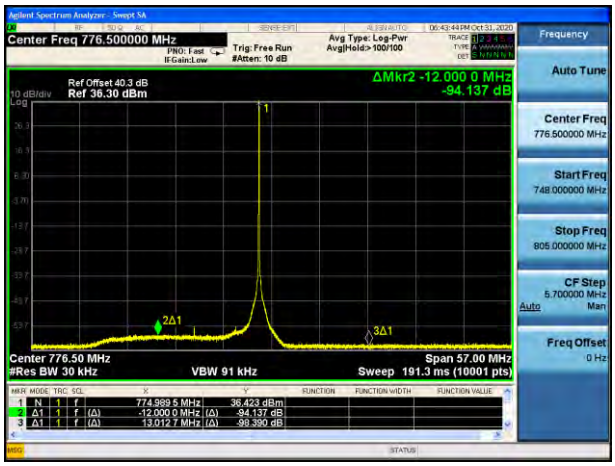
Output



Output

Output



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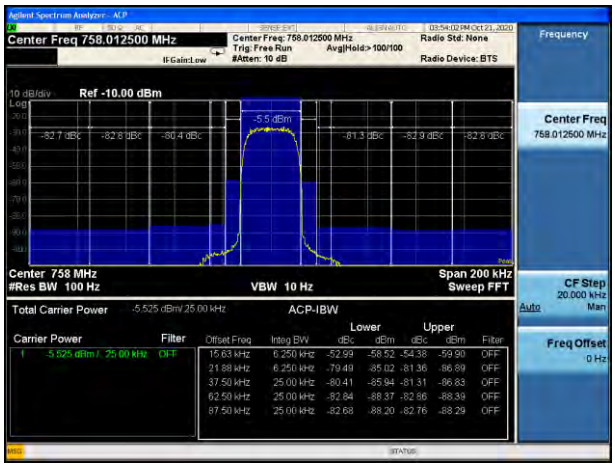
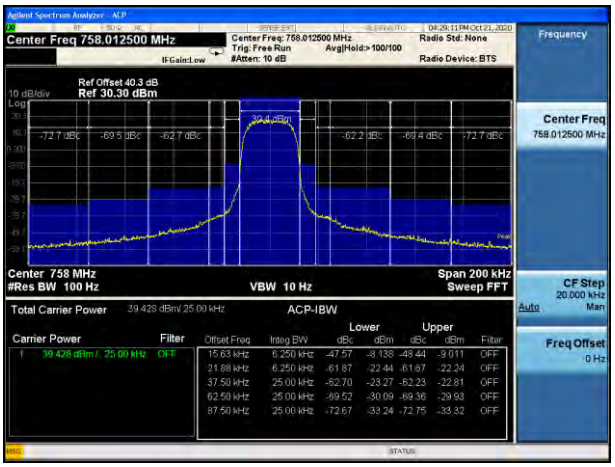
1.3 Adjacent Channel Power (25kHz TETRA)

1.3.1 Pre-AGC_ Lowest frequency

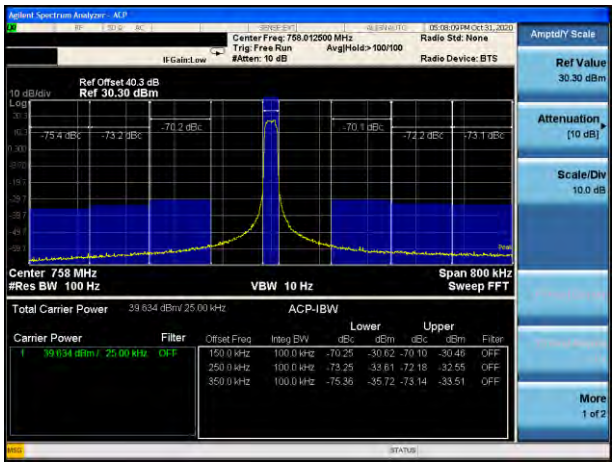
Input



Output



Output



Output

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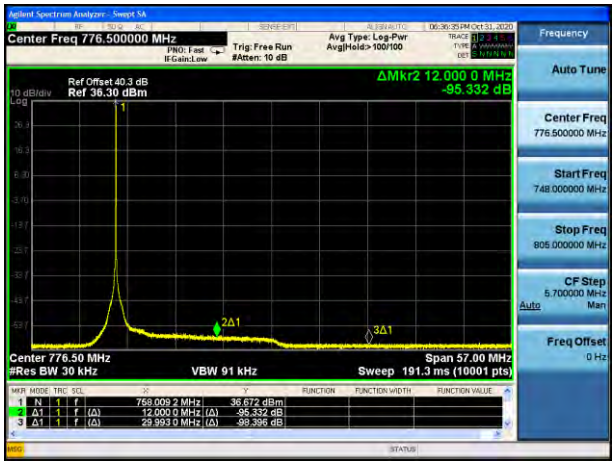
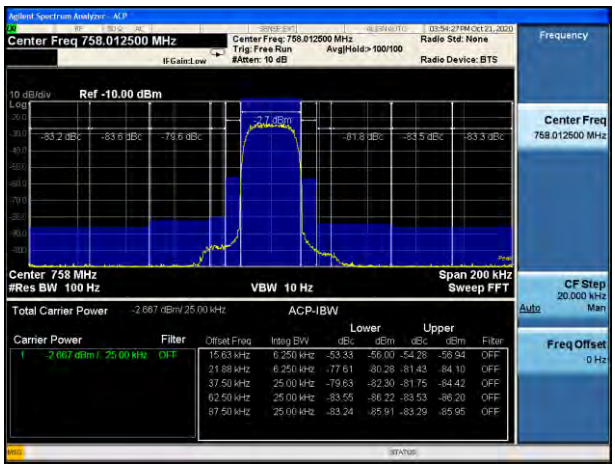
Output

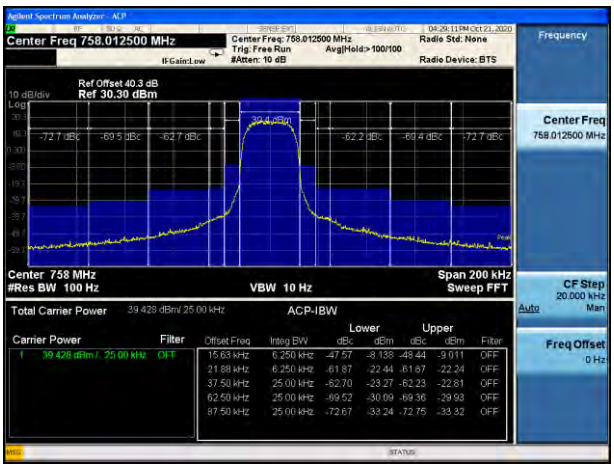


1.3.2 3dB above AGC_ Lowest frequency

Input



Output



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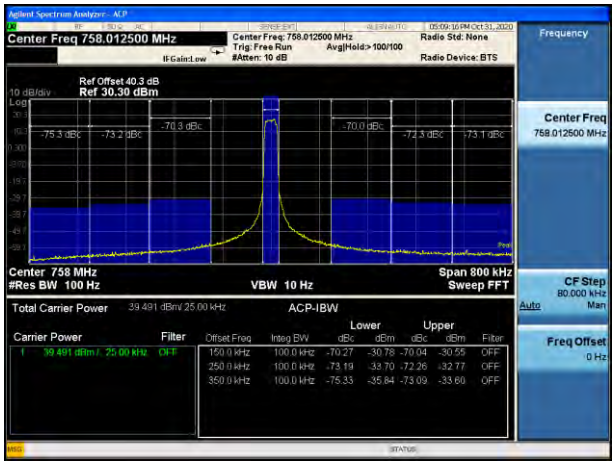
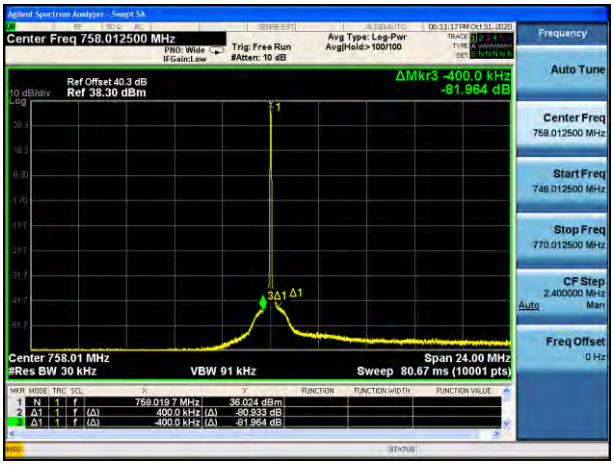
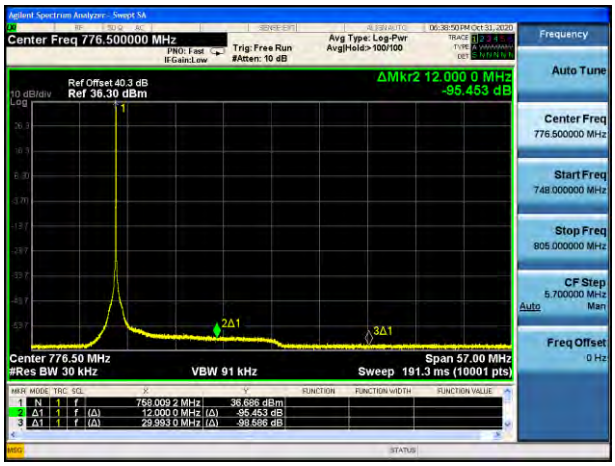
Output



Output



Output



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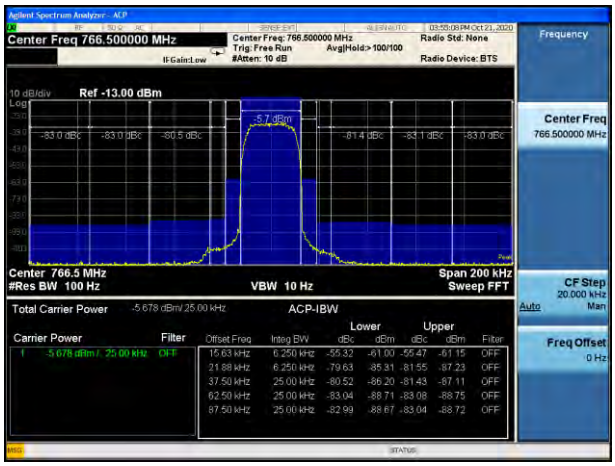
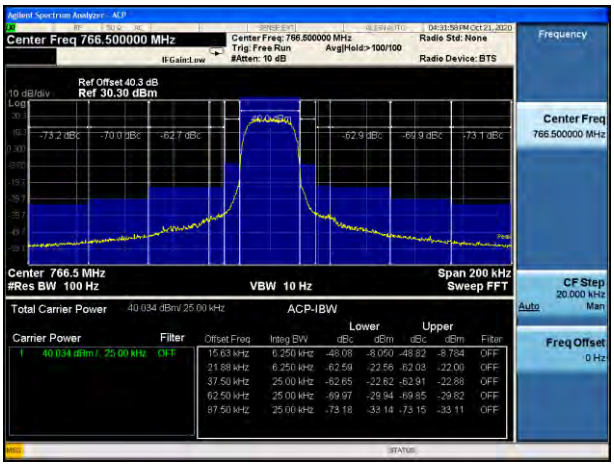
1.3.3 Pre-AGC_ Middle frequency

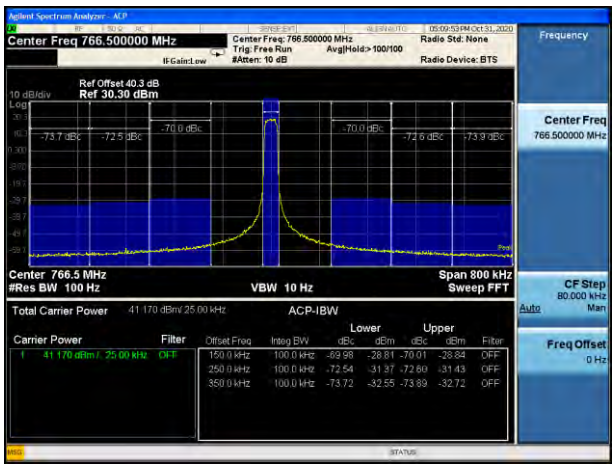
Input



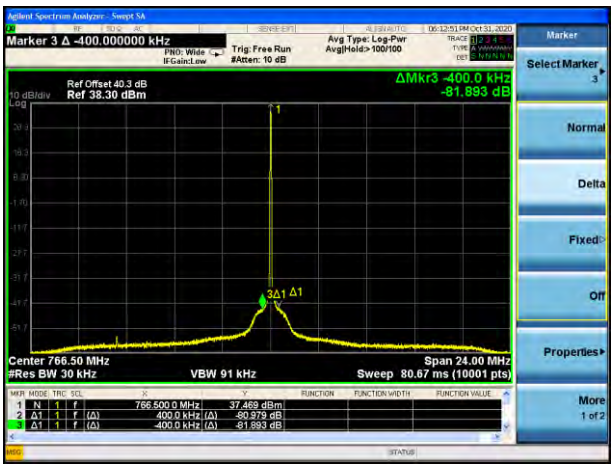
Output



Output



Output



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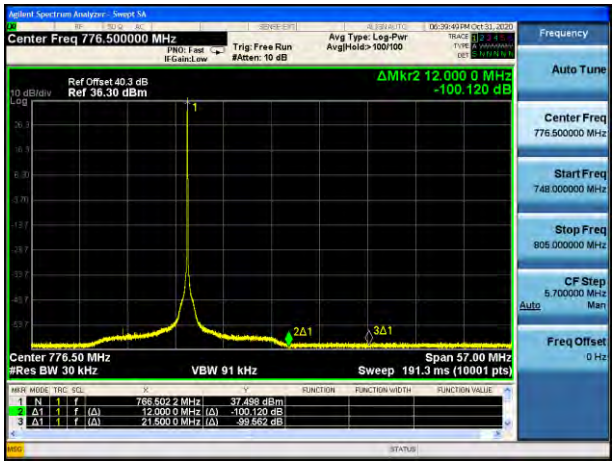
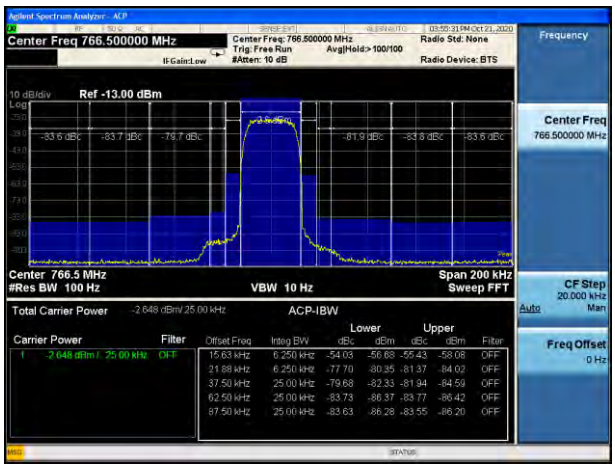
Output

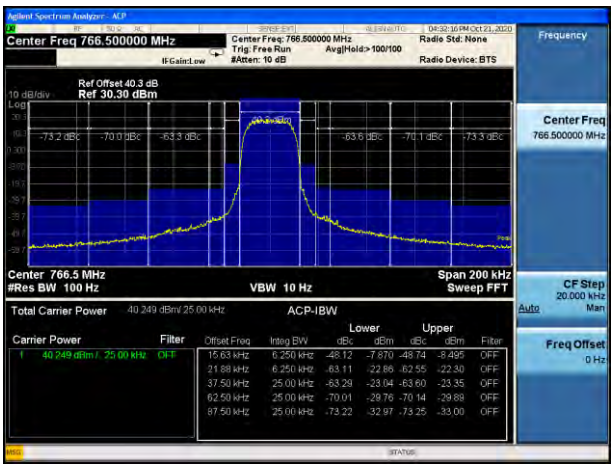


1.3.4 3dB above AGC_ Middle frequency

Input



Output



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