

Agilent Spectrum Analyzer - Swept SA

RF 50 Ω DC SENSE:INT ALIGN: AUTO

Ref Value 37.00 dBm

PNO: Close IFGain:Auto Trig: Free Run Avg Type: Log-Pwr Avg/Hold:>100/100

TRACE 1 2 3 4 5 6
TYPE M P S N N N N
DET

Trace/Detector

Select Trace 1

Clear Write

Trace Average

Max Hold

Min Hold

View Blank Trace On

More 1 of 3

10 dB/div Log

Ref Offset 30 dB
Ref 37.00 dBm

Center 151.85000 MHz
#Res BW 100 Hz #VBW 300 Hz Sweep (FFT) ~20.00 ms (20000 pts)

MSG STATUS

Agilent Spectrum Analyzer - Swept SA

Center Freq 161.610000 MHz

PNO: Close IFGain: Auto Trig: Free Run #Atten: 20 dB

Avg Type: Log-Pwr Avg/Hold: >100/100

TRACE 1 2 3 4 5 6
TYPE M W W W W W W W
DET P S N N N N

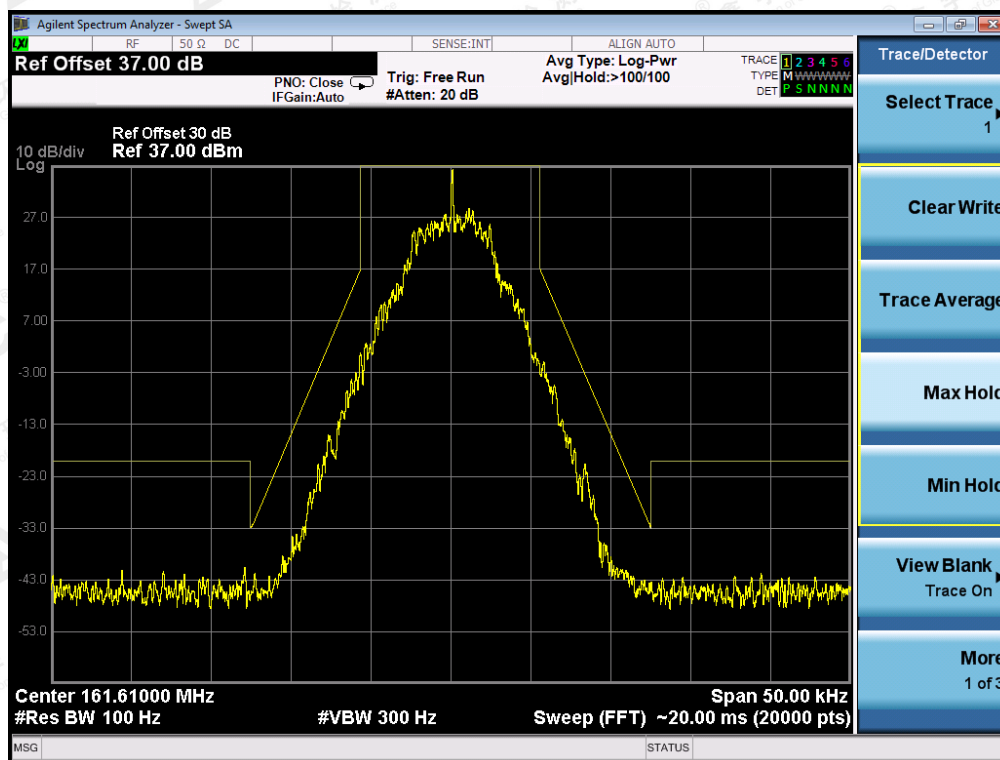
Ref Offset 30 dB
Ref 30.00 dBm

10 dB/div
Log

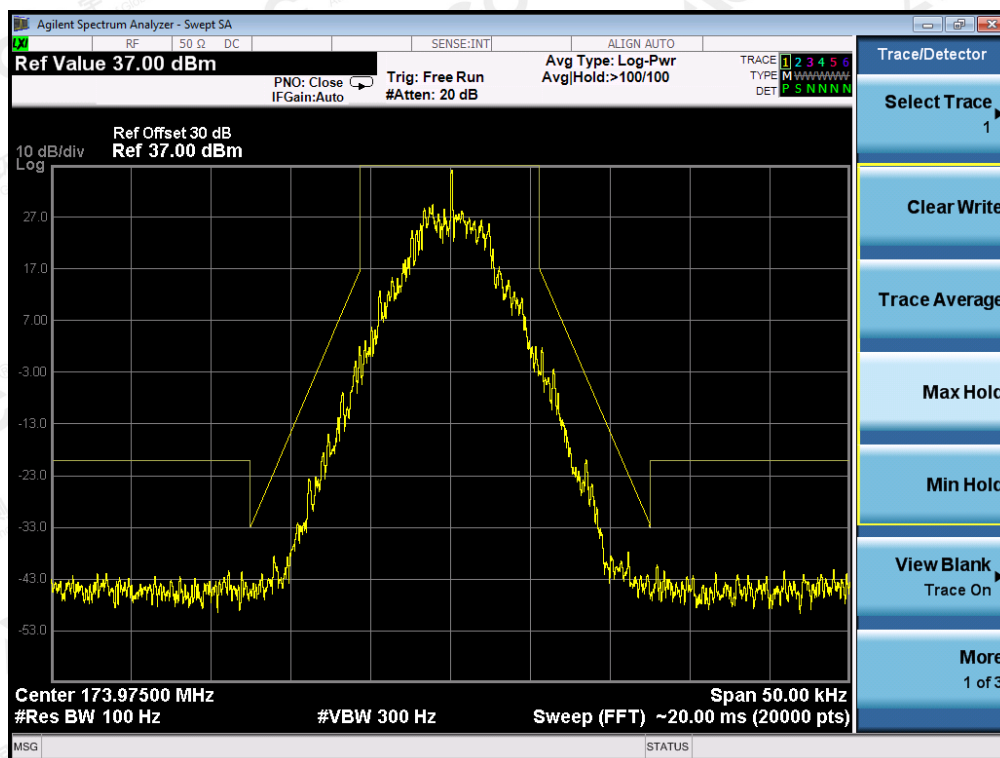
Center 161.61000 MHz Span 50.00 kHz
#Res BW 100 Hz #VBW 300 Hz Sweep (FFT) ~20.00 ms (20000 pts)

Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com 400 089 2118
Add: 2/F., Building 2, No. 1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China

The Worst Emission Mask D for (161.61MHz) of 12.5 KHz channel Separation (5W)

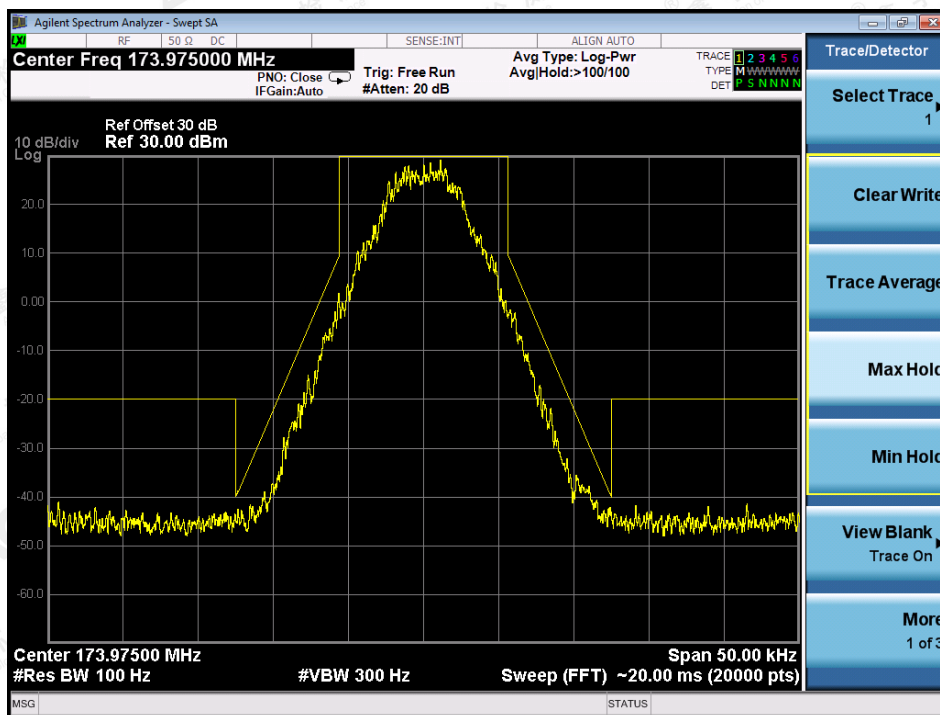


The Worst Emission Mask D for (173.975MHz) of 12.5 KHz channel Separation (5W)



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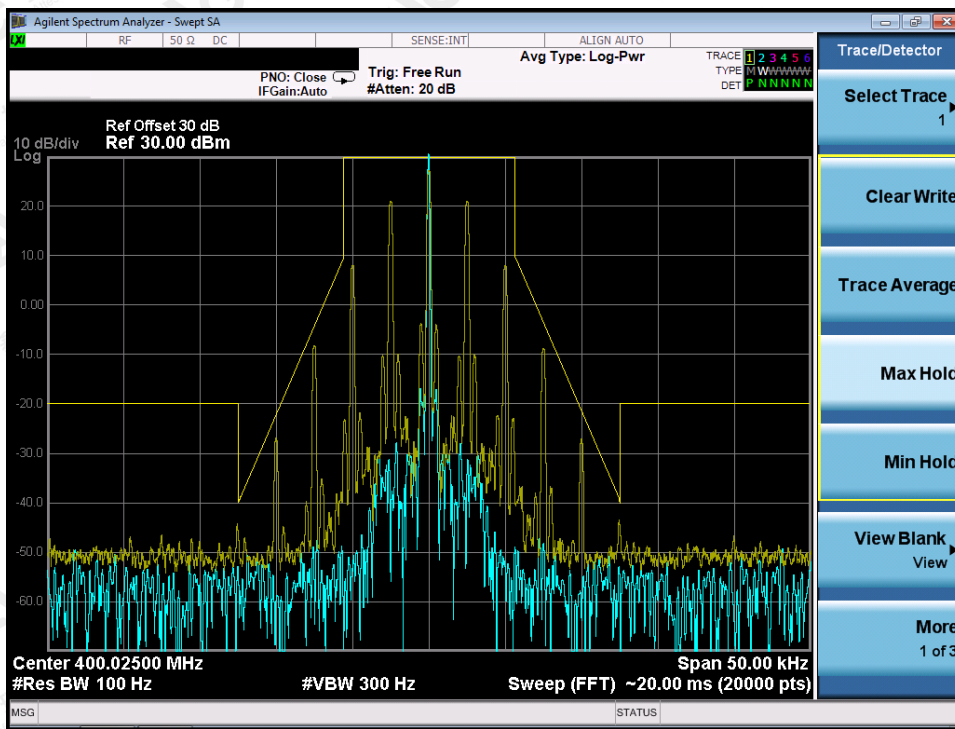
The Worst Emission Mask D for (173.975MHz) of 12.5 KHz channel Separation (1W)



UHF:

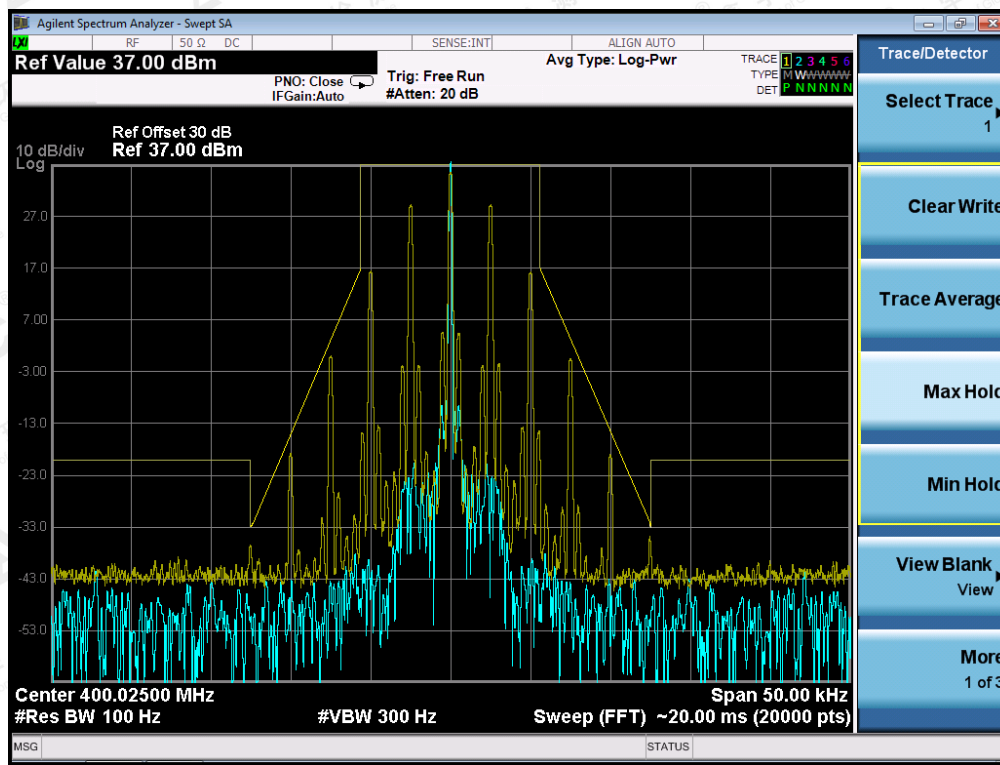
Analog:

The Worst Emission Mask for (400.025 MHz) of 12.5 KHz channel Separation (1W)

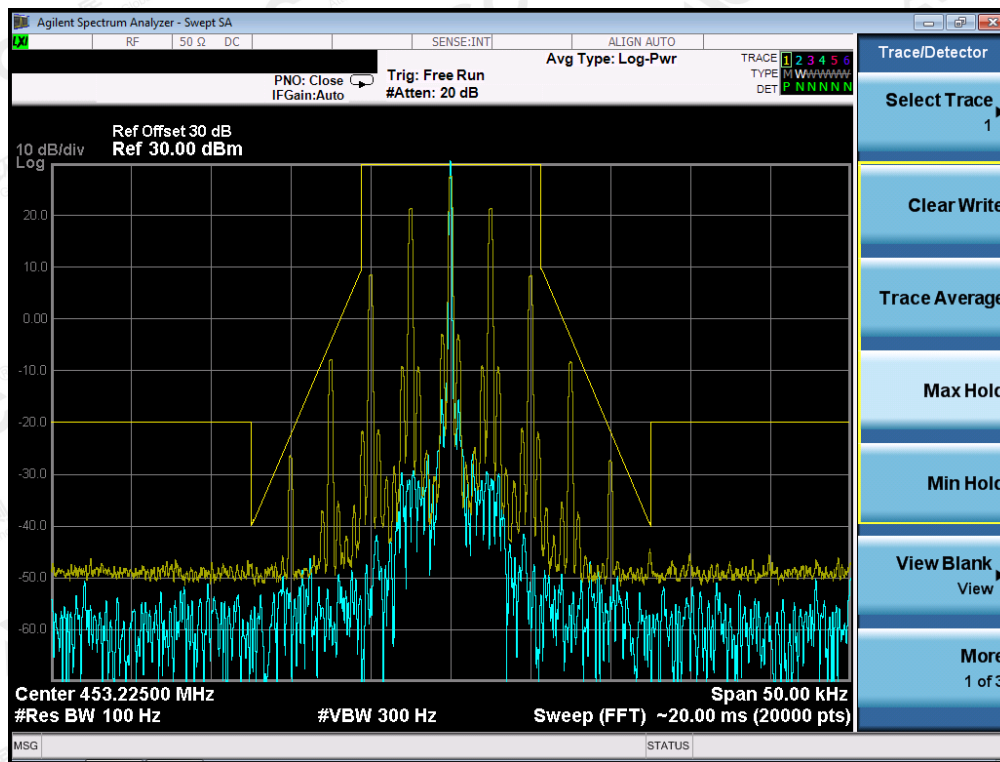


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The Worst Emission Mask for (400.025 MHz) of 12.5 KHz channel Separation (5W)

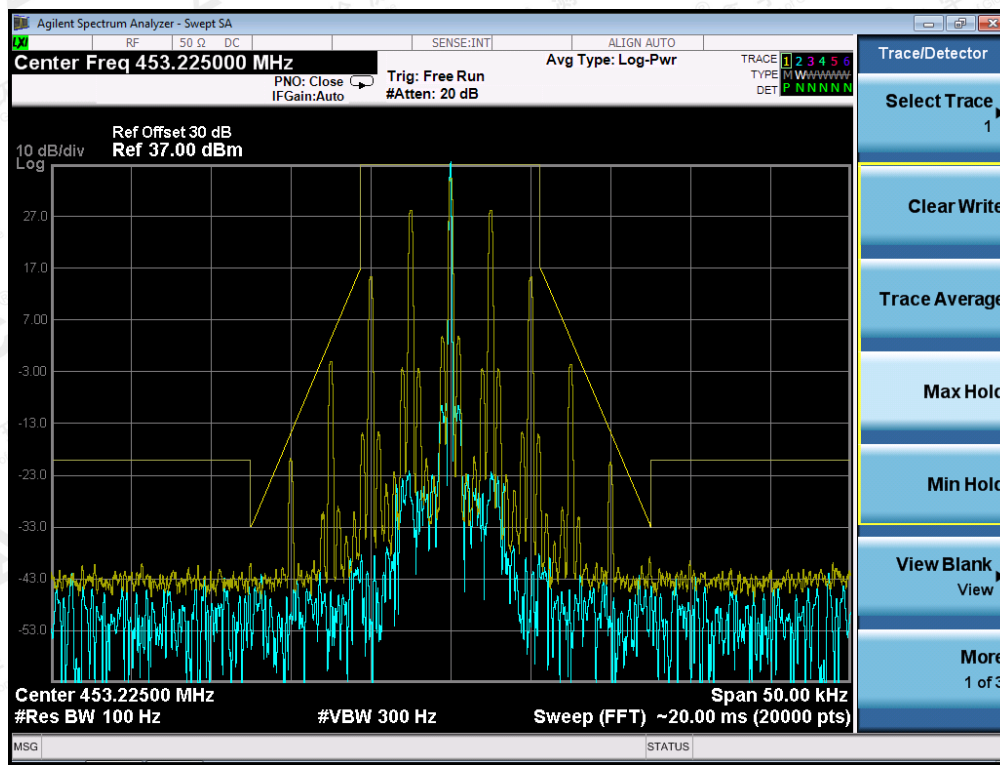


The Worst Emission Mask for (453.225 MHz) of 12.5 KHz channel Separation (1W)

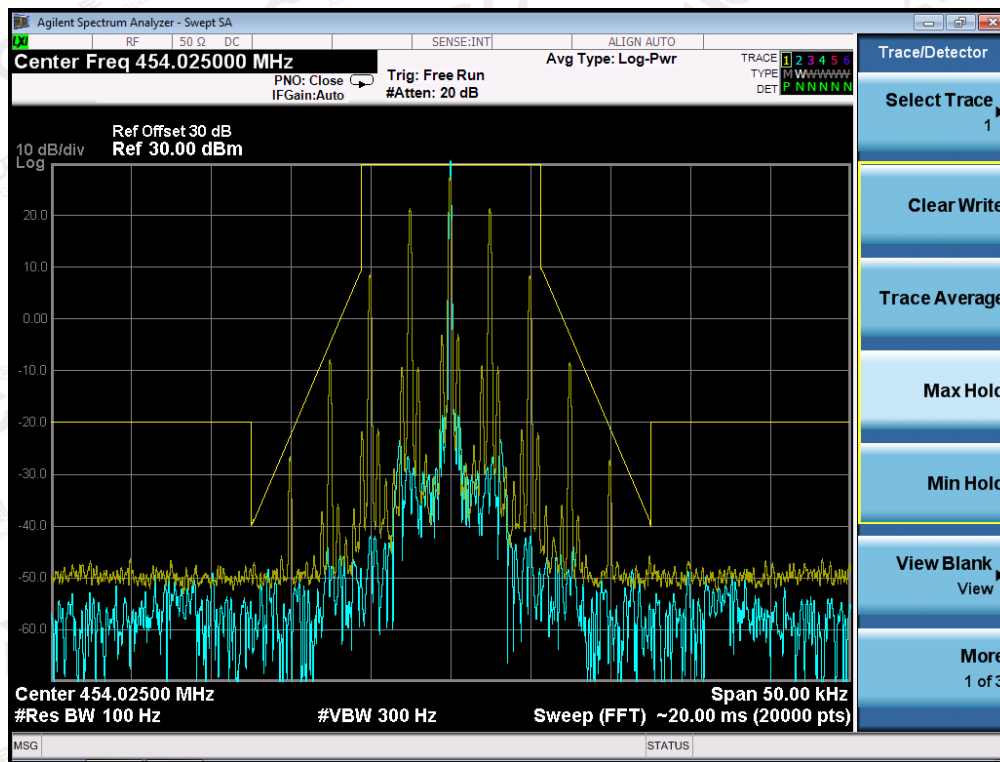


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The Worst Emission Mask for (453.225 MHz) of 12.5 KHz channel Separation (5W)

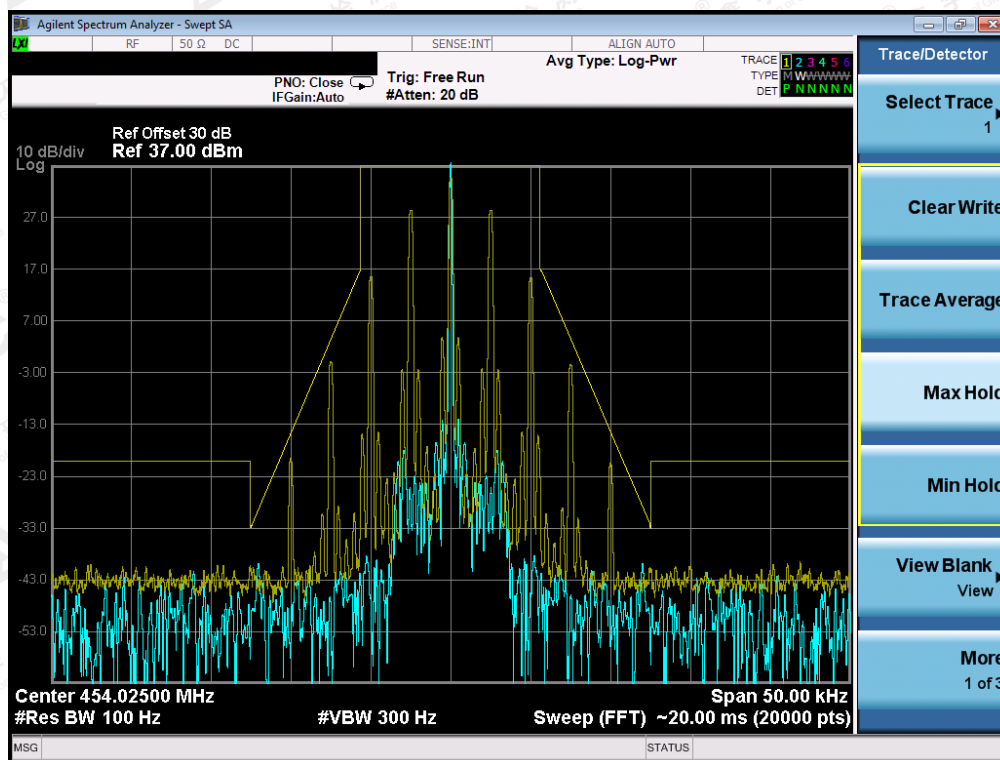


The Worst Emission Mask for (454.025 MHz) of 12.5 KHz channel Separation (1W)

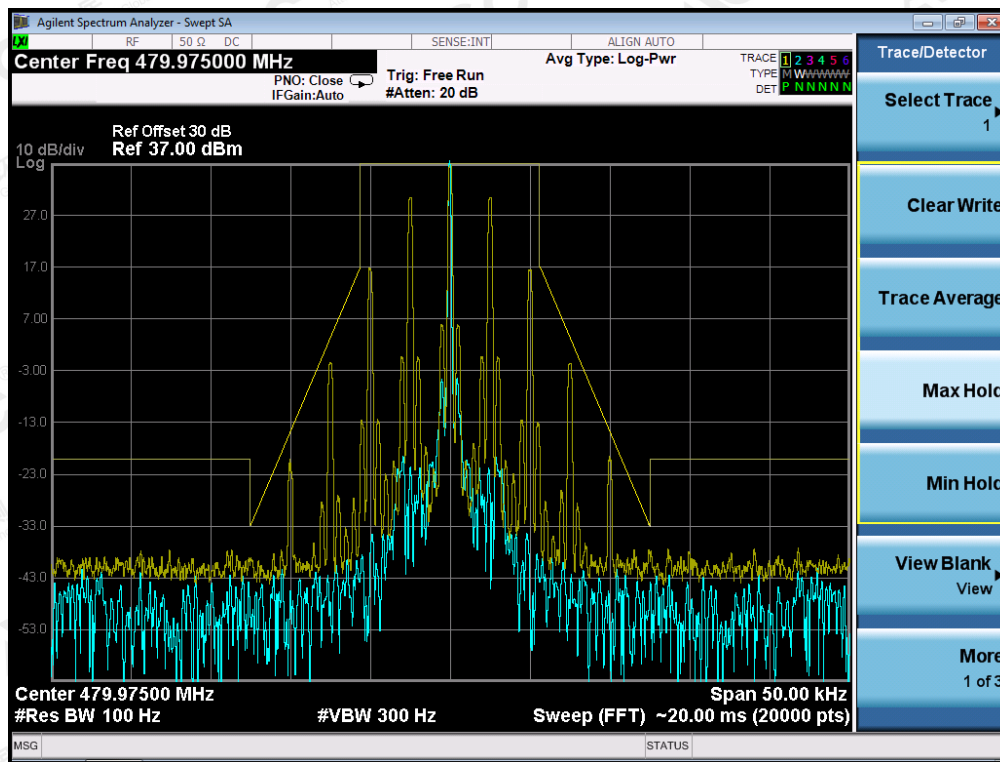


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The Worst Emission Mask for (454.025 MHz) of 12.5 KHz channel Separation (5W)

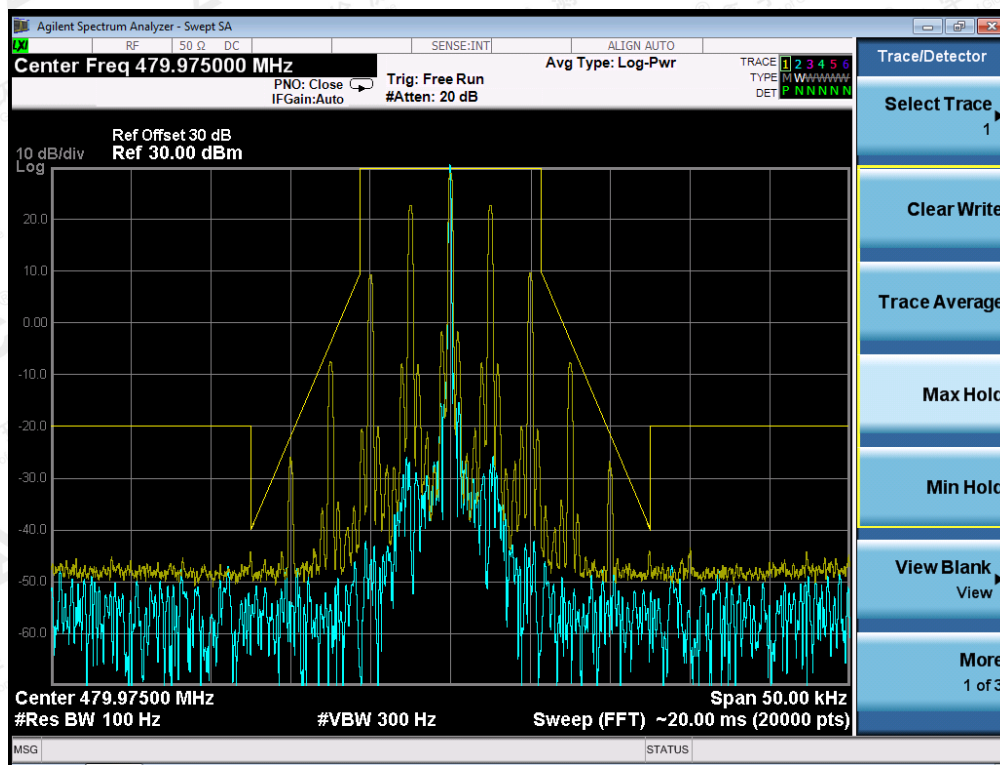


The Worst Emission Mask for (479.975 MHz) of 12.5 KHz channel Separation (5W)

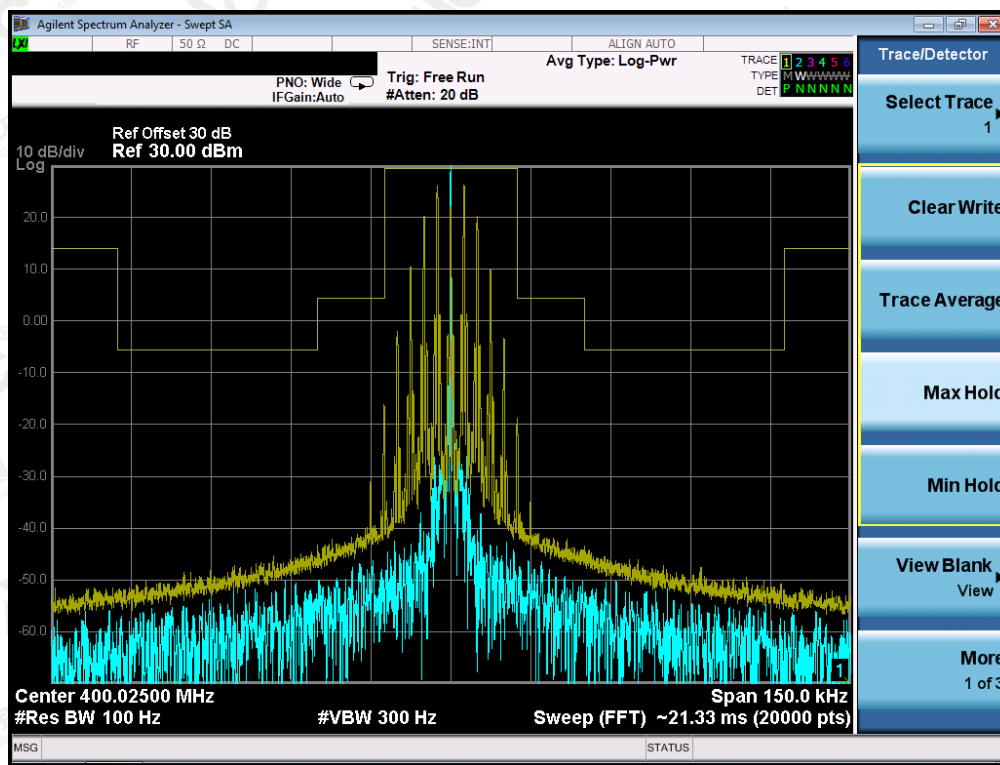


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The Worst Emission Mask for (479.975 MHz) of 12.5 KHz channel Separation (5W)

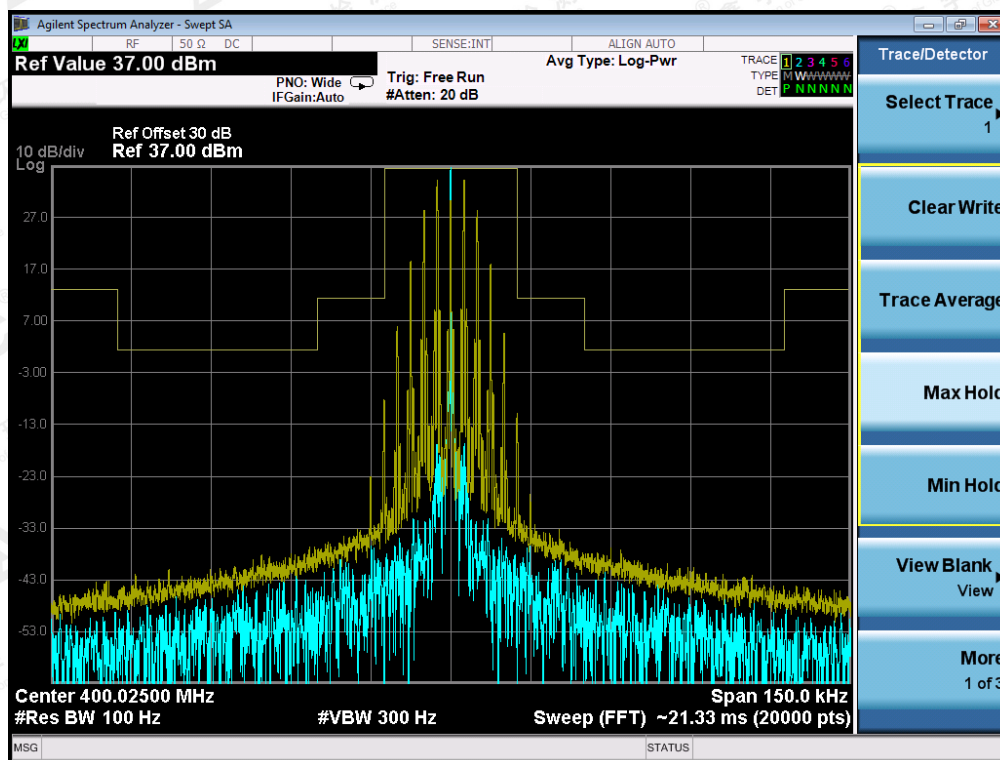


The Worst Emission Mask for (400.025 MHz) of 25 KHz channel Separation (1W)

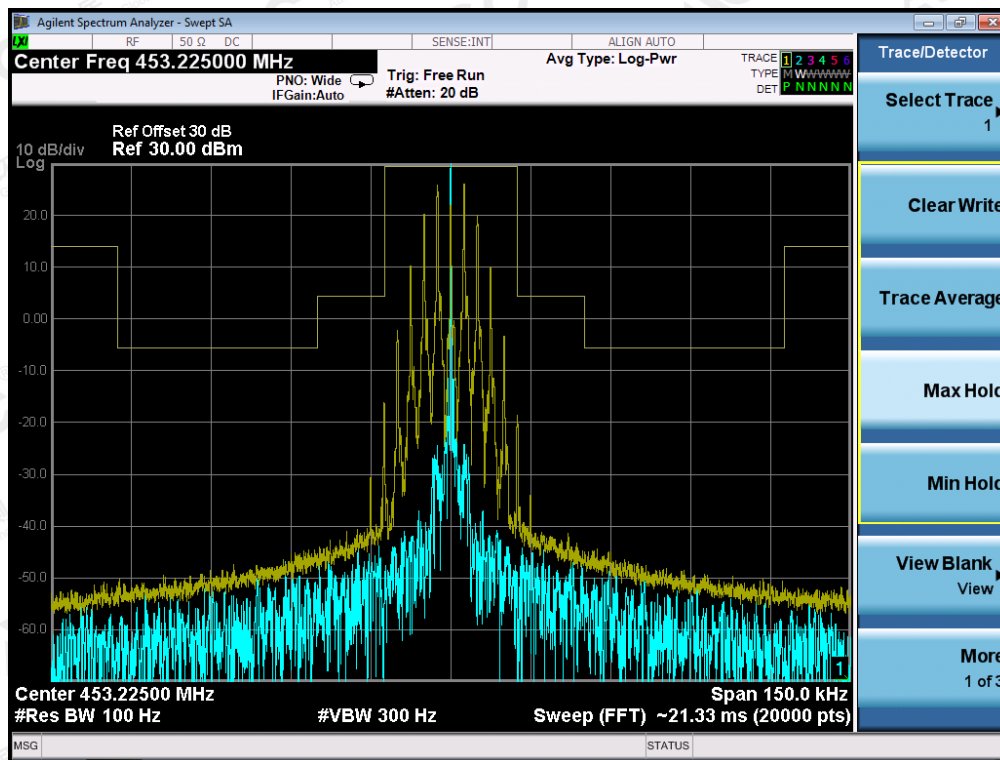


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The Worst Emission Mask for (400.025 MHz) of 25 KHz channel Separation (5W)

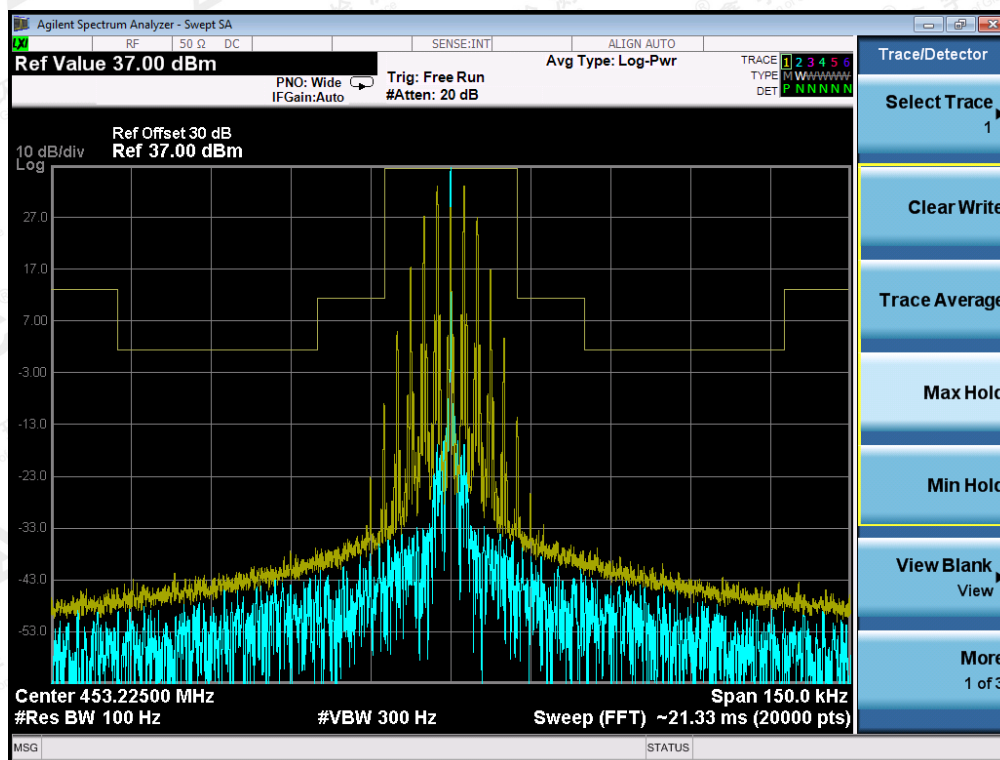


The Worst Emission Mask for (453.225 MHz) of 25 KHz channel Separation (1W)

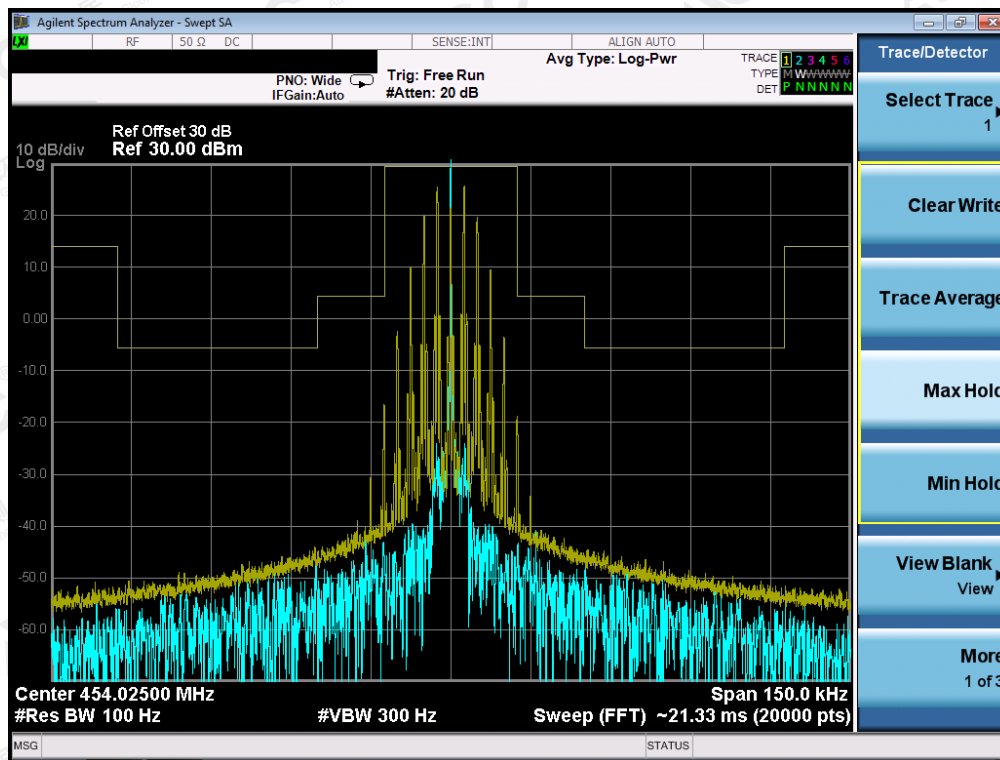


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The Worst Emission Mask for (453.225 MHz) of 25 KHz channel Separation (5W)

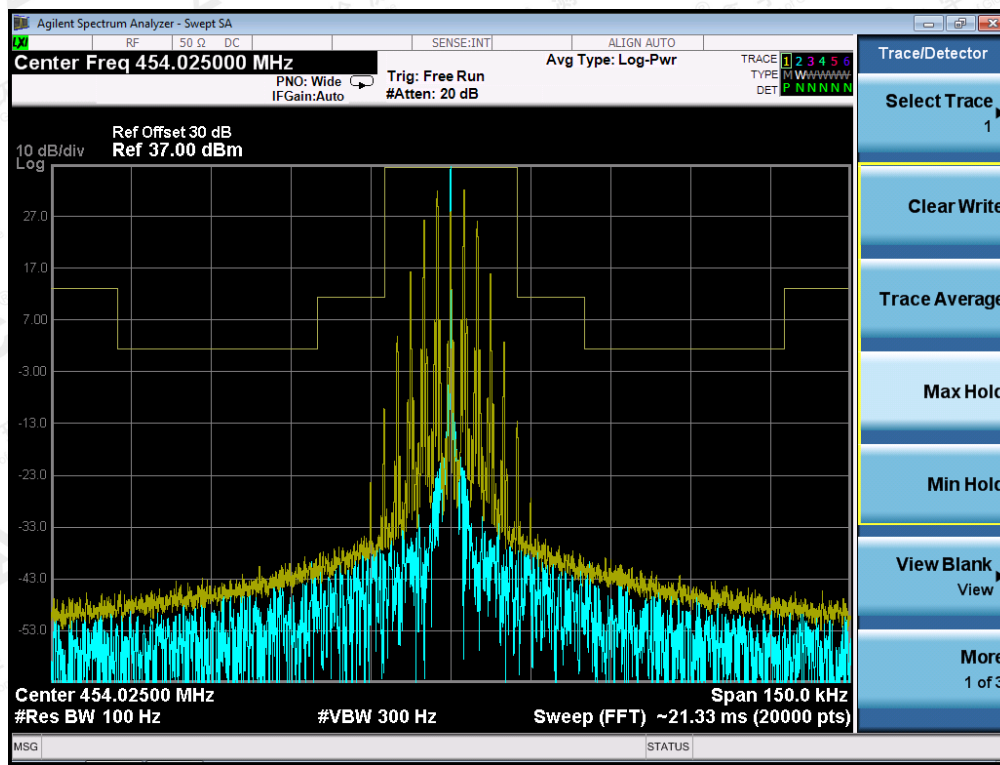


The Worst Emission Mask for (454.025 MHz) of 25 KHz channel Separation (1W)

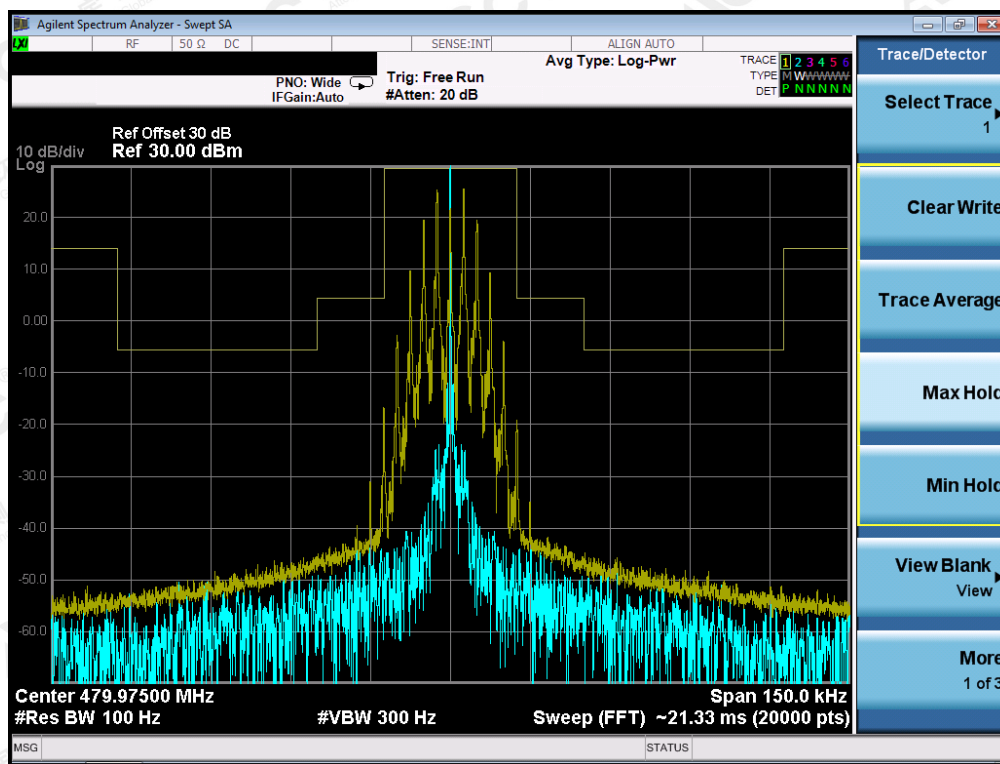


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The Worst Emission Mask for (454.025 MHz) of 25 KHz channel Separation (5W)

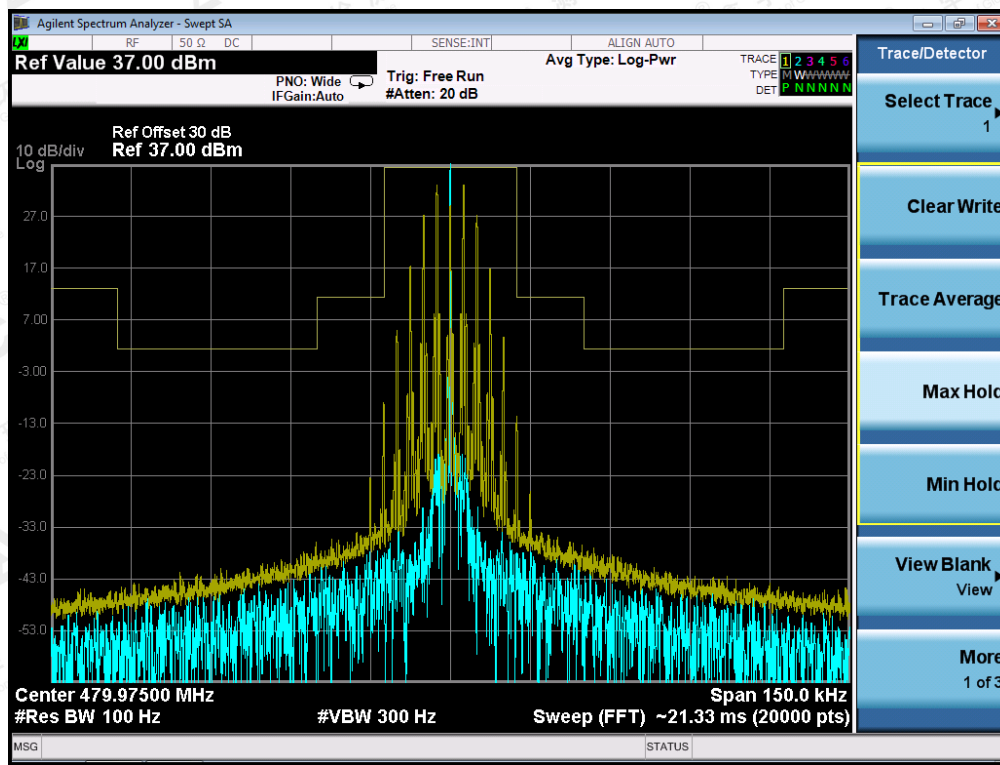


The Worst Emission Mask for (479.975 MHz) of 25 KHz channel Separation (1W)



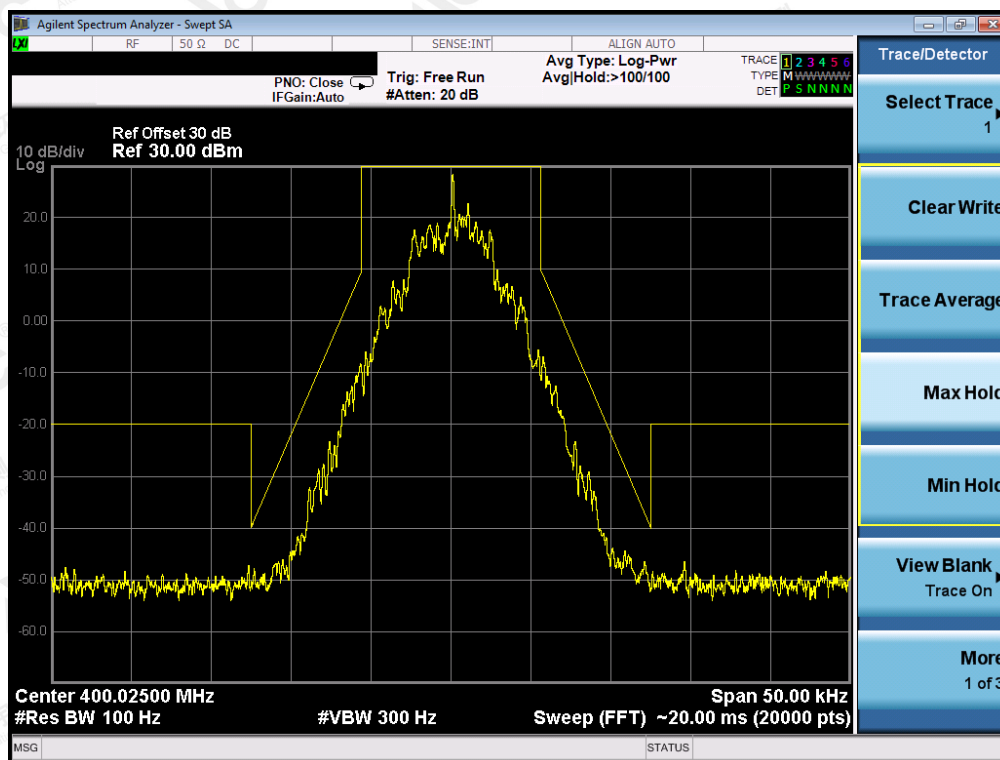
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The Worst Emission Mask for (479.975 MHz) of 25 KHz channel Separation (5W)



Digital:

The Worst Emission Mask D for (400.025 MHz) of 12.5 KHz channel Separation (1W)

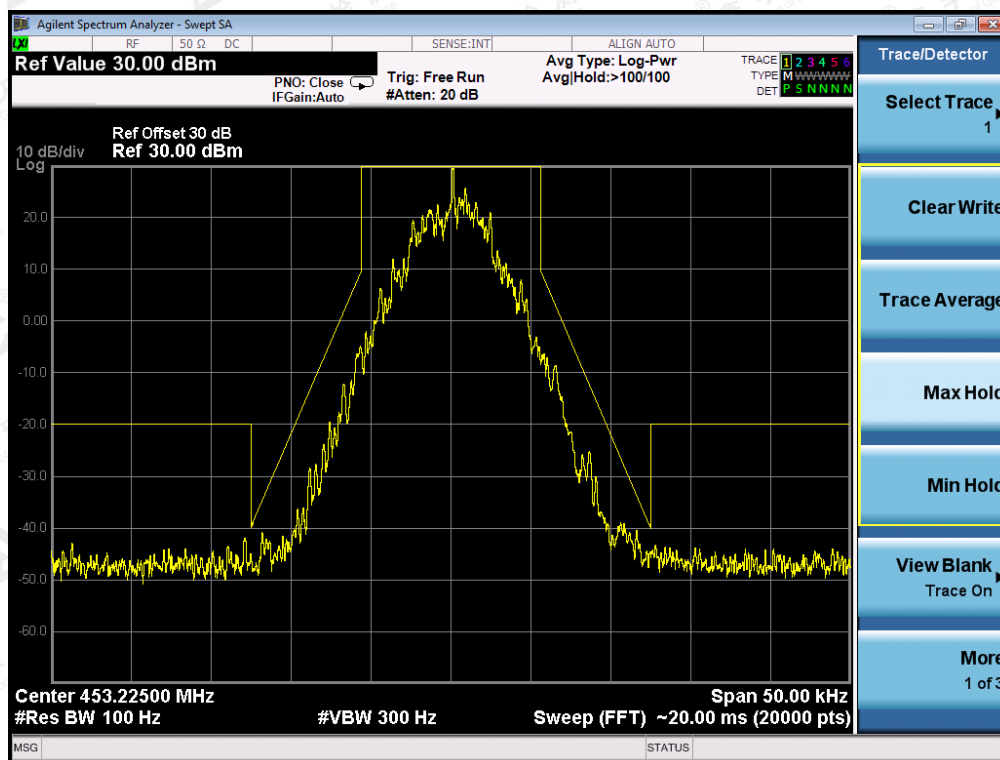


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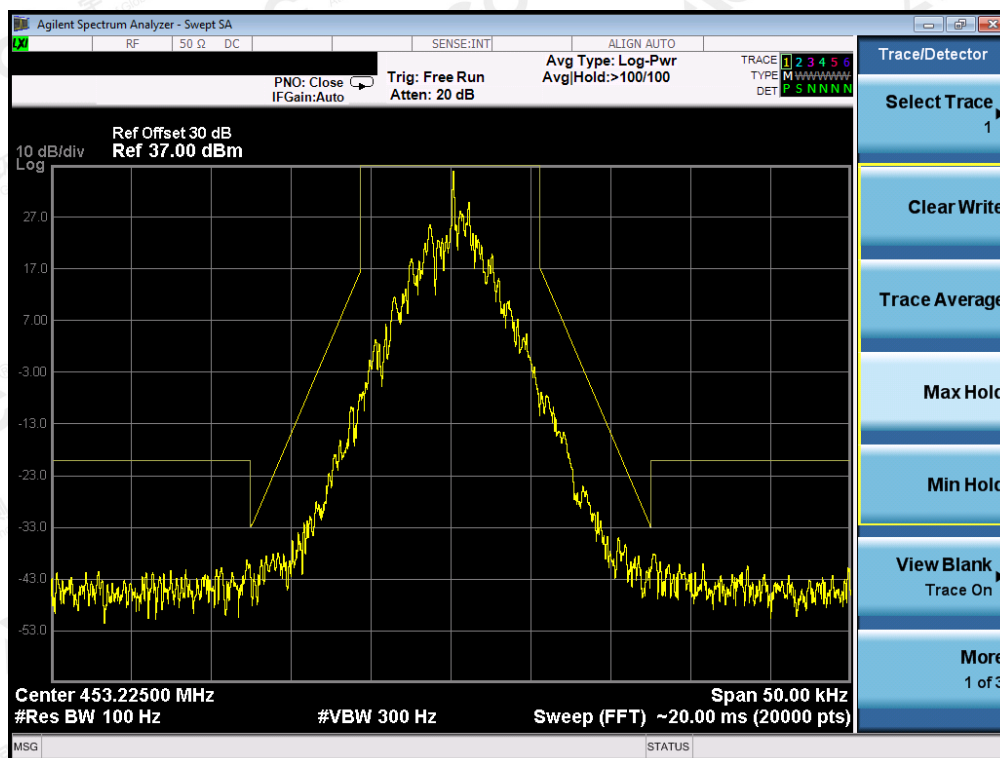
[illegible]

Tel: +86-755 2908 1955 Fax: +86-755 2600 8484 E-mail: agc@agc-cert.com 400 089 2118
Add: 2/F., Building 2, No. 1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong China

The Worst Emission Mask D for (453.225 MHz) of 12.5 KHz channel Separation (1W)

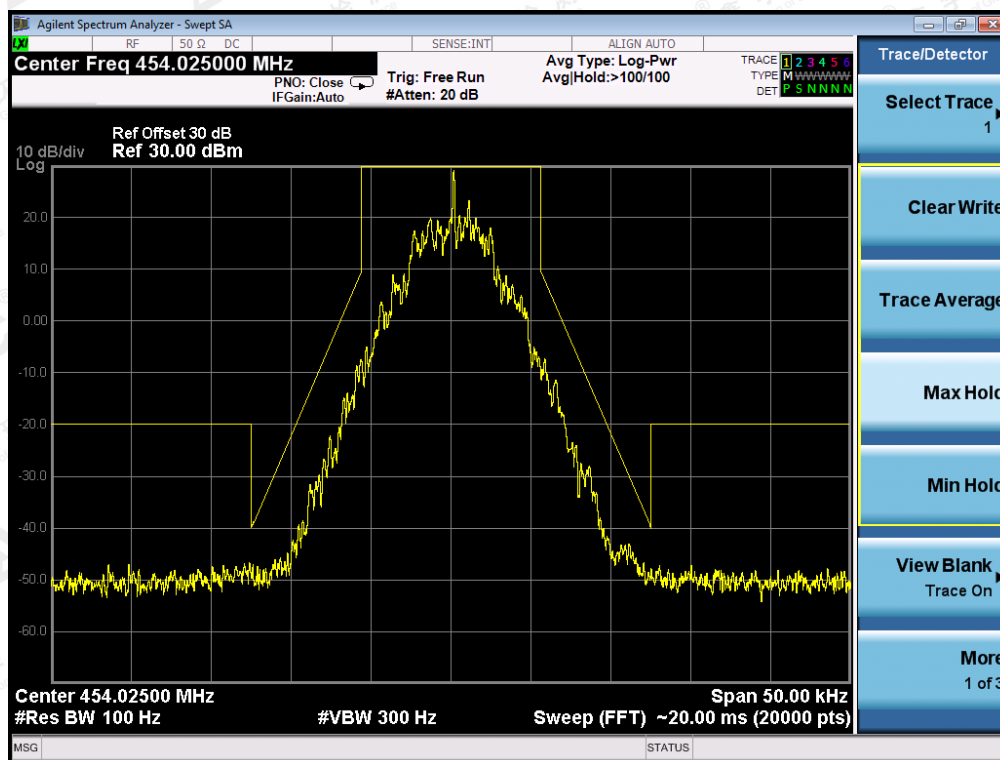


The Worst Emission Mask D for (453.225 MHz) of 12.5 KHz channel Separation (5W)

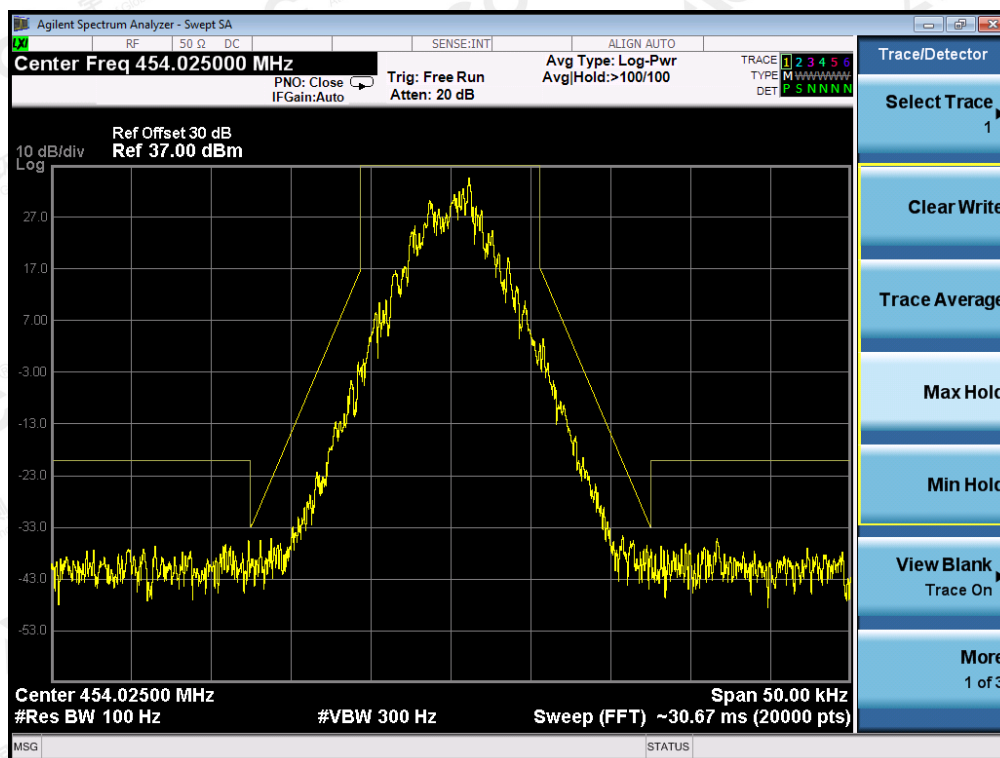


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The Worst Emission Mask D for (454.025 MHz) of 12.5 KHz channel Separation (1W)

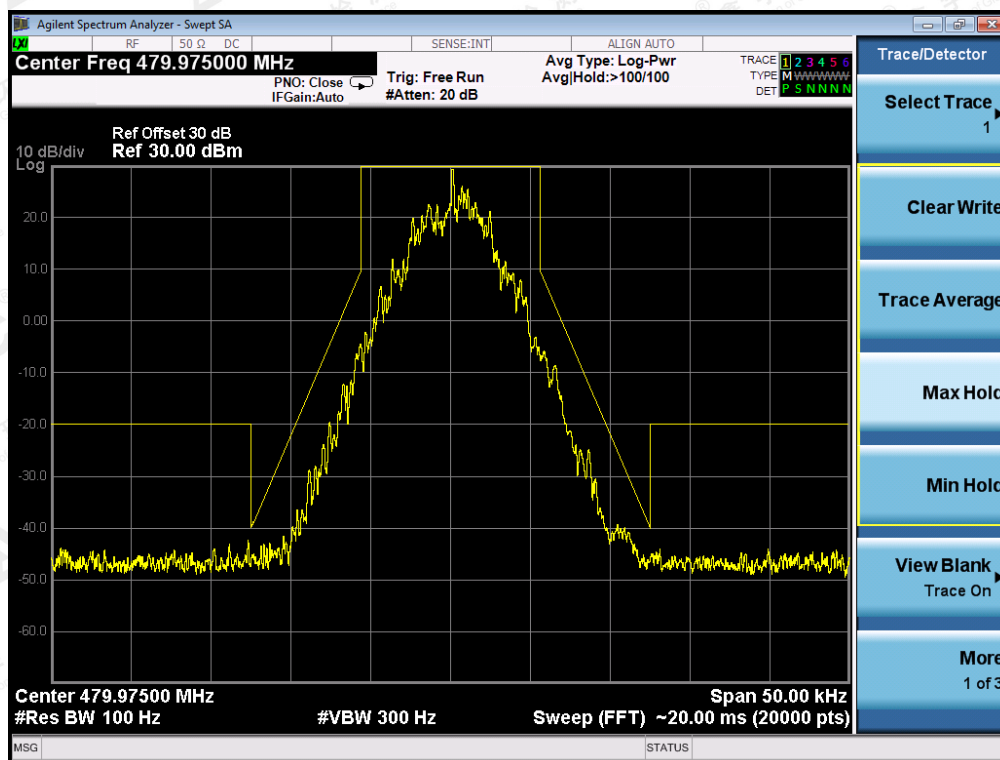


The Worst Emission Mask D for (454.025 MHz) of 12.5 KHz channel Separation (5W)

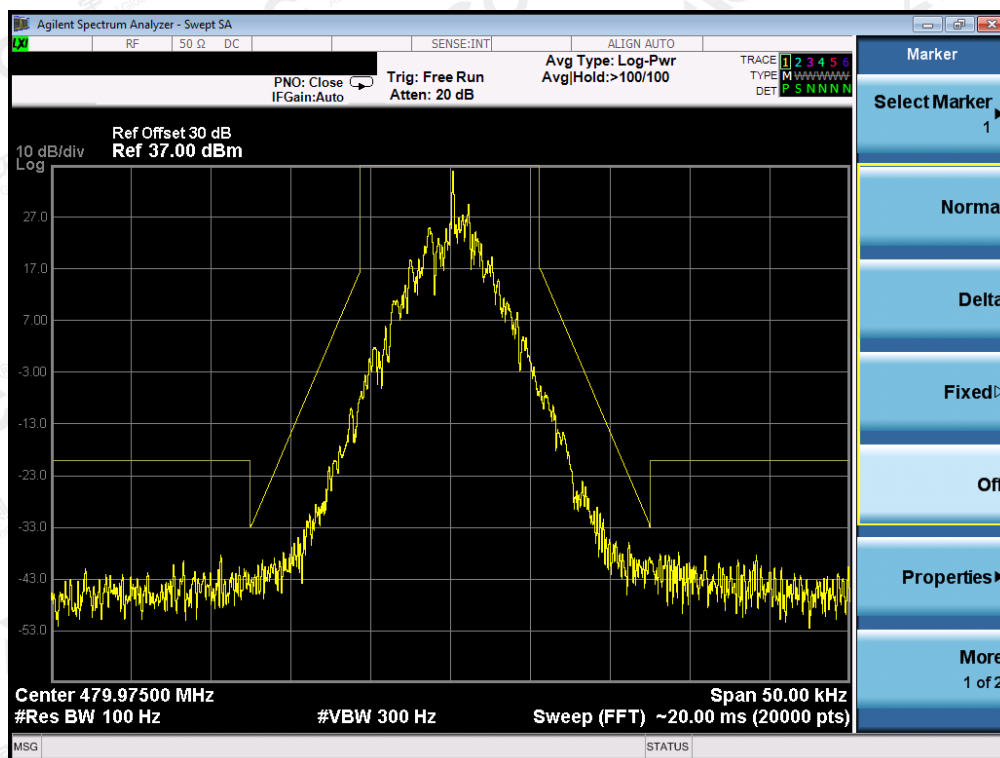


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The Worst Emission Mask D for (479.975 MHz) of 12.5 KHz channel Separation (1W)



The Worst Emission Mask D for (479.975 MHz) of 12.5 KHz channel Separation (5W)



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8. MODULATION CHARACTERISTICS

8.1 PROVISIONS APPLICABLE

According to FCC§2.1047 and §90.207, for Voice Modulation Communication Equipment, the frequency response of the audio modulation circuit over a range of 100 to 5000Hz shall be measured.

8.2 MEASUREMENT METHOD

8.2.1 Modulation Limit

- (1). Configure the EUT as shown in figure 1, adjust the audio input for 60% of rated system deviation at 1KHz using this level as a reference (0dB) and vary the input level from -20 to +20dB. Record the frequency deviation obtained as a function of the input level.
- (2). Repeat step 1 with input frequency changing to 300, 1000, 1500 and 3000Hz in sequence.

8.2.2 Audio Frequency Response

- (1). Configure the EUT as shown in figure 1.
- (2). Adjust the audio input for 20% of rated system deviation at 1 KHz using this level as a reference (0 dB).
- (3). Vary the Audio frequency from 100 Hz to 10 KHz and record the frequency deviation.
- (4). Audio Frequency Response = $20\log_{10}(\text{Deviation of test frequency}/\text{Deviation of 1 KHz reference})$.

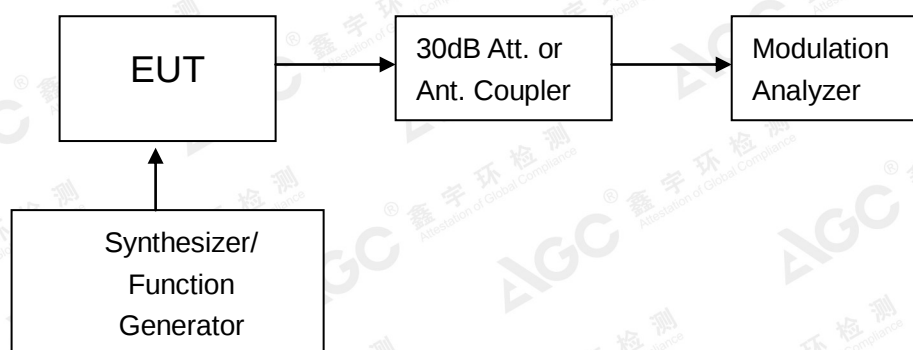


Figure 1: Modulation characteristic measurement configuration

8.3 MEASUREMENT RESULT

VHF:

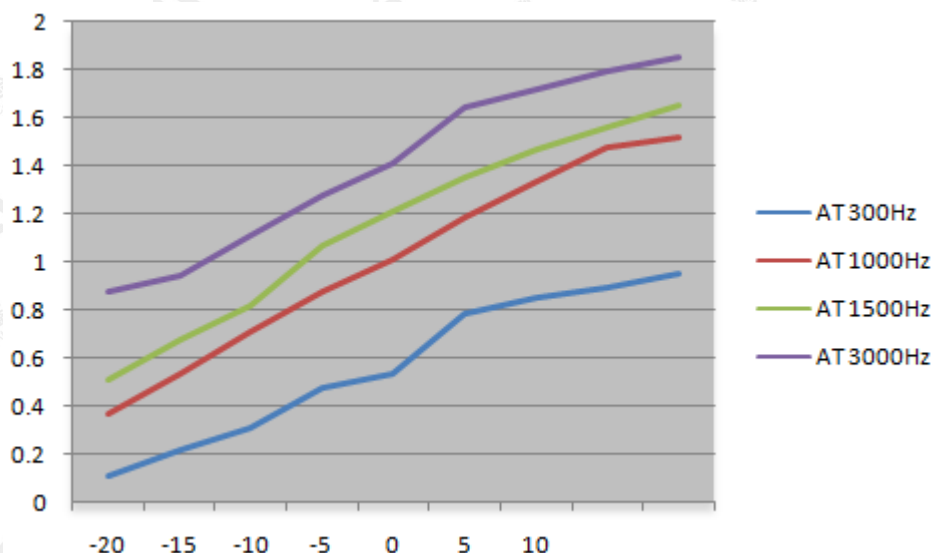
Analog:

TEST RESULTS FOR H POWER

(A). MODULATION LIMIT:

Middle Channel @ 12.5 KHz Channel Separations

Modulation Level (dB)	Peak Freq. Deviation At 300 Hz	Peak Freq. Deviation At 1000 Hz	Peak Freq. Deviation At 1500 Hz	Peak Freq. Deviation At 3000 Hz
-20	0.11	0.37	0.51	0.88
-15	0.22	0.54	0.68	0.95
-10	0.31	0.71	0.82	1.11
-5	0.48	0.88	1.07	1.28
0	0.53	1.01	1.21	1.41
+5	0.78	1.19	1.35	1.64
+10	0.85	1.34	1.47	1.72
+15	0.89	1.48	1.56	1.79
+20	0.95	1.52	1.65	1.85



Note: All the modes had been tested, but only the worst data recorded in the report.

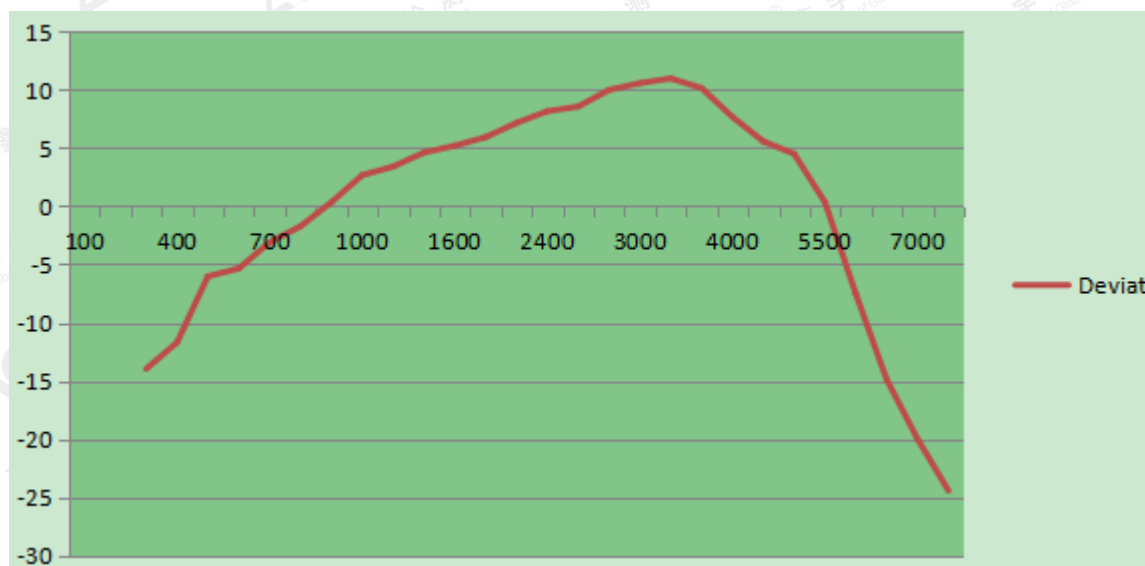
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(B). AUDIO FREQUENCY RESPONSE:
Middle Channel @ 12.5 KHz Channel Separations

Frequency (Hz)	Deviation (KHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.10	-13.98
400	0.13	-11.70
500	0.25	-6.02
600	0.27	-5.35
700	0.35	-3.10
800	0.41	-1.72
900	0.52	0.34
1000	0.68	2.67
1200	0.74	3.41
1400	0.85	4.61
1600	0.91	5.20
1800	0.99	5.93
2000	1.14	7.16
2400	1.28	8.16
2500	1.34	8.56
2800	1.58	9.99
3000	1.69	10.58
3200	1.77	10.98
3600	1.61	10.16
4000	1.21	7.68
4500	0.95	5.58
5000	0.84	4.51
5500	0.52	0.34
6000	0.21	-7.54
6500	0.09	-14.89
7000	0.05	-20.00
7500	0.03	-24.44
9000	--	--
10000	--	--
14000	--	--
18000	--	--
20000	--	--
30000	--	--

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Frequency Response of Middle Channel



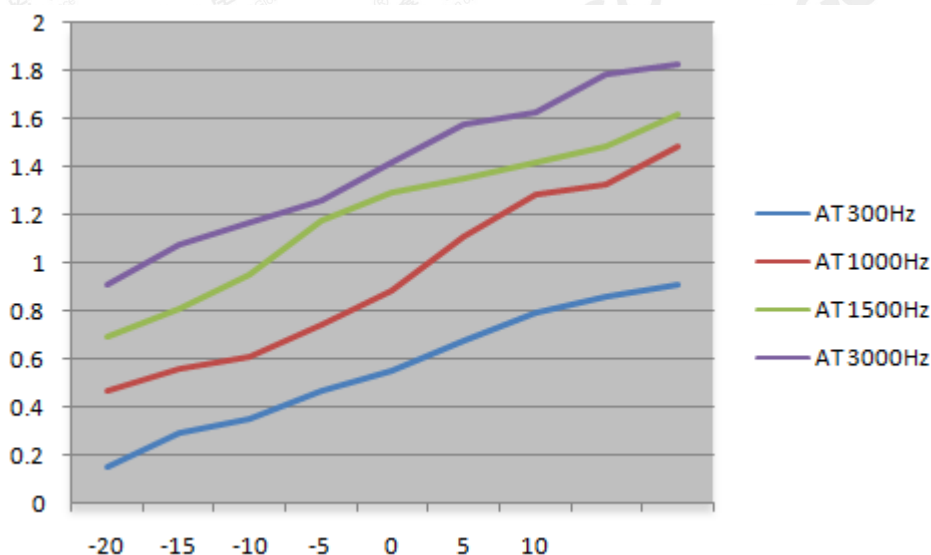
Note: All the modes had been tested, but only the worst data recorded in the report.

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(A). MODULATION LIMIT:

Middle Channel @ 25 KHz Channel Separations

Modulation Level (dB)	Peak Freq. Deviation At 300 Hz	Peak Freq. Deviation At 1000 Hz	Peak Freq. Deviation At 1500 Hz	Peak Freq. Deviation At 3000 Hz
-20	0.15	0.47	0.69	0.91
-15	0.29	0.56	0.81	1.08
-10	0.35	0.61	0.95	1.17
-5	0.47	0.75	1.18	1.26
0	0.55	0.89	1.29	1.42
+5	0.68	1.11	1.35	1.58
+10	0.79	1.29	1.42	1.63
+15	0.86	1.33	1.49	1.79
+20	0.91	1.49	1.62	1.83



Note: All the modes had been tested, but only the worst data recorded in the report.

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(B). AUDIO FREQUENCY RESPONSE:
Middle Channel @ 25 KHz Channel Separations

Frequency (Hz)	Deviation (KHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.16	-9.90
400	0.21	-7.54
500	0.38	-2.38
600	0.47	-0.54
700	0.52	0.34
800	0.69	2.80
900	0.75	3.52
1000	0.86	4.71
1200	0.91	5.20
1400	1.02	6.19
1600	1.11	6.93
1800	1.26	8.03
2000	1.38	8.82
2400	1.41	9.00
2500	1.59	10.05
2800	1.63	10.26
3000	1.78	11.03
3200	1.89	11.55
3600	1.65	10.37
4000	1.11	6.93
4500	0.93	5.39
5000	0.84	4.51
5500	0.52	0.34
6000	0.24	-6.38
6500	0.11	-13.15
7000	0.08	-15.92
7500	0.05	-20.00
9000	--	--
10000	--	--
14000	--	--
18000	--	--
20000	--	--
30000	--	--

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Frequency Response of Middle Channel



Note: All the modes had been tested, but only the worst data recorded in the report

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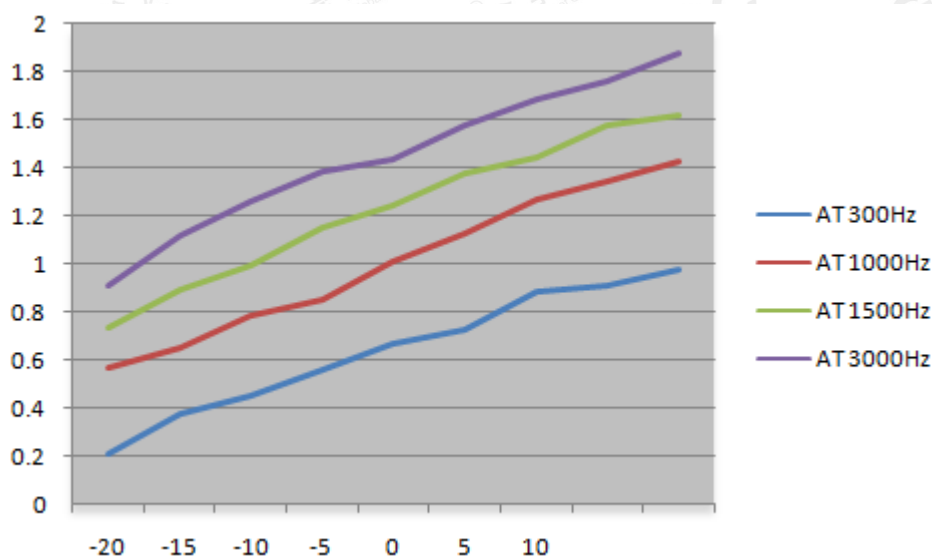
Digital:

TEST RESULTS FOR H POWER

(A). MODULATION LIMIT:

Middle Channel @ 12.5 KHz Channel Separations

Modulation Level (dB)	Peak Freq. Deviation At 300 Hz	Peak Freq. Deviation At 1000 Hz	Peak Freq. Deviation At 1500 Hz	Peak Freq. Deviation At 3000 Hz
-20	0.21	0.57	0.73	0.91
-15	0.38	0.65	0.89	1.12
-10	0.45	0.79	0.99	1.26
-5	0.56	0.85	1.15	1.39
0	0.67	1.01	1.24	1.44
+5	0.73	1.13	1.38	1.58
+10	0.89	1.27	1.44	1.69
+15	0.91	1.35	1.58	1.76
+20	0.98	1.43	1.62	1.88



Note: All the modes had been tested, but only the worst data recorded in the report.

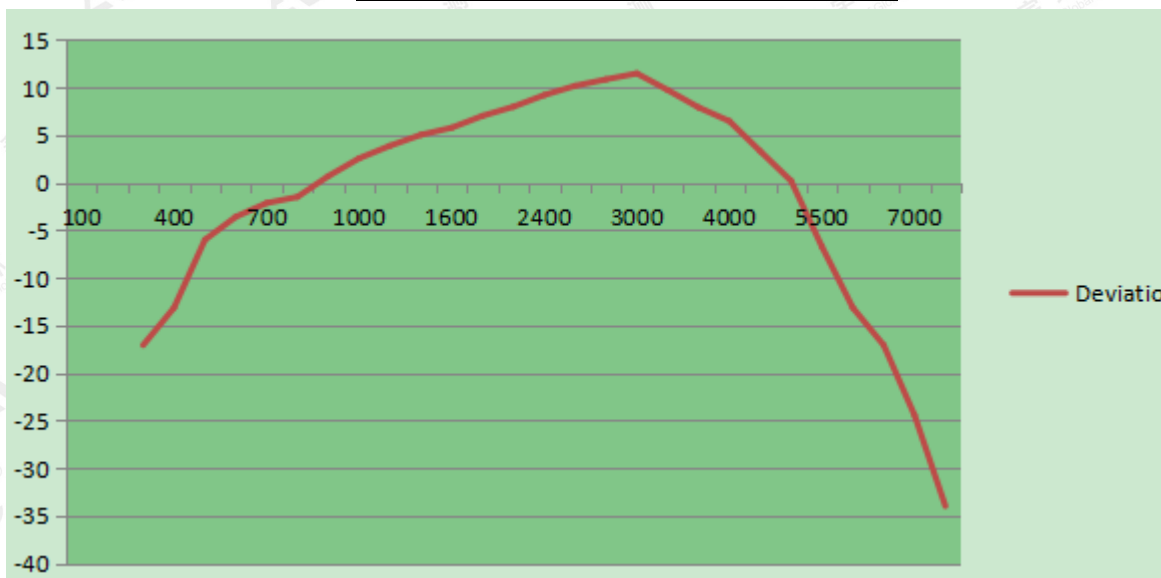
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(B). AUDIO FREQUENCY RESPONSE:
Bottom Channel @ 12.5 KHz Channel Separations

Frequency (Hz)	Deviation (KHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.07	-17.08
400	0.11	-13.15
500	0.25	-6.02
600	0.33	-3.61
700	0.39	-2.16
800	0.42	-1.51
900	0.54	0.67
1000	0.67	2.54
1200	0.78	3.86
1400	0.89	5.01
1600	0.97	5.76
1800	1.12	7.00
2000	1.25	7.96
2400	1.44	9.19
2500	1.61	10.16
2800	1.74	10.83
3000	1.87	11.46
3200	1.53	9.71
3600	1.24	7.89
4000	1.05	6.44
4500	0.73	3.29
5000	0.51	0.17
5500	0.23	-6.74
6000	0.11	-13.15
6500	0.07	-17.08
7000	0.03	-24.44
7500	0.01	-33.98
9000	--	--
10000	--	--
14000	--	--
18000	--	--
20000	--	--
30000	--	--

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Frequency Response of Bottom Channel



Note: All the modes had been tested, but only the worst data recorded in the report.

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UHF:

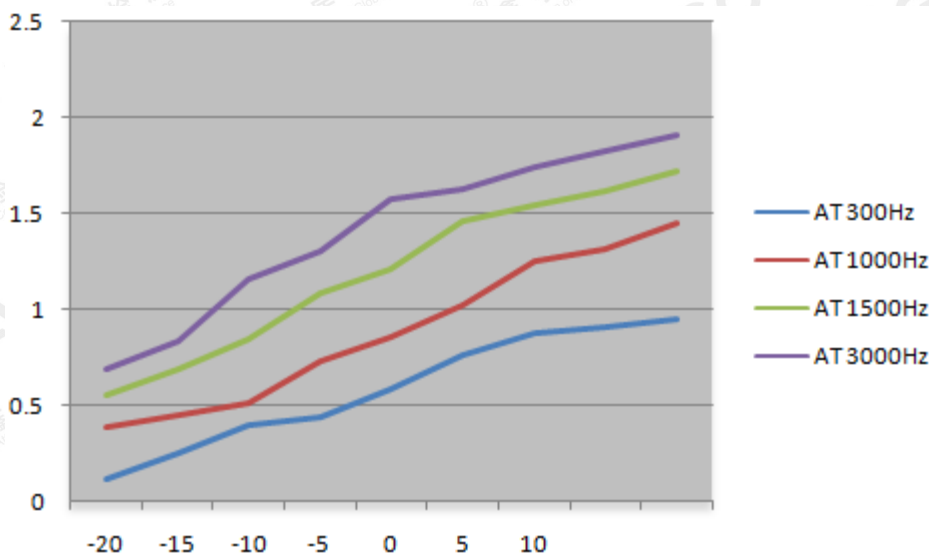
Analog:

TEST RESULT TS FOR H POWER H LEVEL

(A). MODULATION LIMIT:

Middle Channel @ 12.5 KHz Channel Separations

Modulation Level (dB)	Peak Freq. Deviation At 300 Hz	Peak Freq. Deviation At 1000 Hz	Peak Freq. Deviation At 1500 Hz	Peak Freq. Deviation At 3000 Hz
-20	0.11	0.38	0.55	0.69
-15	0.25	0.44	0.69	0.84
-10	0.39	0.51	0.84	1.16
-5	0.44	0.73	1.08	1.31
0	0.58	0.85	1.21	1.58
+5	0.76	1.02	1.46	1.63
+10	0.88	1.25	1.54	1.74
+15	0.91	1.31	1.62	1.83
+20	0.95	1.45	1.72	1.91



Note: All the modes had been tested, but only the worst data recorded in the report.

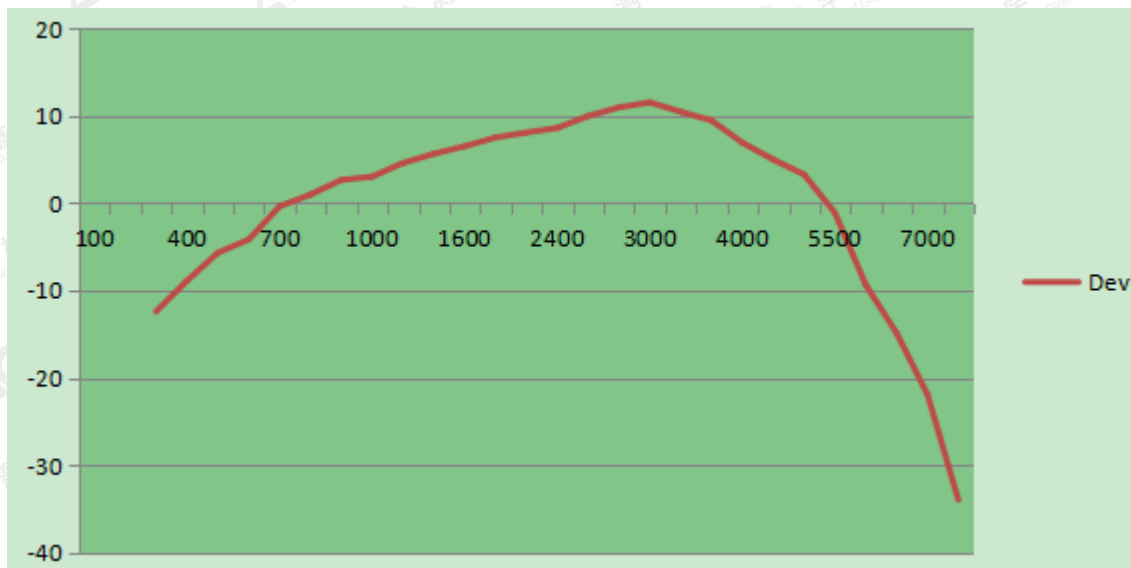
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(B). AUDIO FREQUENCY RESPONSE:
Middle Channel @ 12.5 KHz Channel Separations

Frequency (Hz)	Deviation (KHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.12	-12.40
400	0.18	-8.87
500	0.26	-5.68
600	0.31	-4.15
700	0.48	-0.35
800	0.56	0.98
900	0.68	2.67
1000	0.71	3.05
1200	0.85	4.61
1400	0.96	5.67
1600	1.06	6.53
1800	1.19	7.53
2000	1.27	8.10
2400	1.35	8.63
2500	1.58	9.99
2800	1.77	10.98
3000	1.89	11.55
3200	1.67	10.47
3600	1.49	9.48
4000	1.11	6.93
4500	0.89	5.01
5000	0.73	3.29
5500	0.44	-1.11
6000	0.17	-9.37
6500	0.09	-14.89
7000	0.04	-21.94
7500	0.01	-33.98
9000	--	--
10000	--	--
14000	--	--
18000	--	--
20000	--	--
30000	--	--

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Frequency Response of High Channel



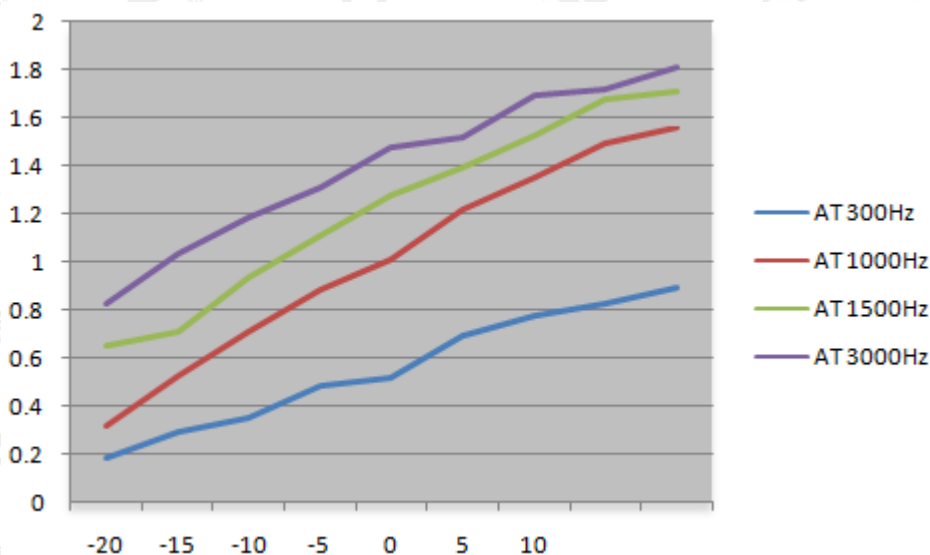
Note: All the modes had been tested, but only the worst data recorded in the report.

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(A). MODULATION LIMIT:

Middle Channel @ 25 KHz Channel Separations

Modulation Level (dB)	Peak Freq. Deviation At 300 Hz	Peak Freq. Deviation At 1000 Hz	Peak Freq. Deviation At 1500 Hz	Peak Freq. Deviation At 3000 Hz
-20	0.18	0.32	0.65	0.83
-15	0.29	0.53	0.71	1.04
-10	0.35	0.71	0.93	1.19
-5	0.48	0.89	1.11	1.31
0	0.51	1.01	1.28	1.48
+5	0.69	1.22	1.39	1.52
+10	0.77	1.35	1.53	1.69
+15	0.82	1.49	1.68	1.72
+20	0.89	1.56	1.71	1.81



Note: All the modes had been tested, but only the worst data recorded in the report.

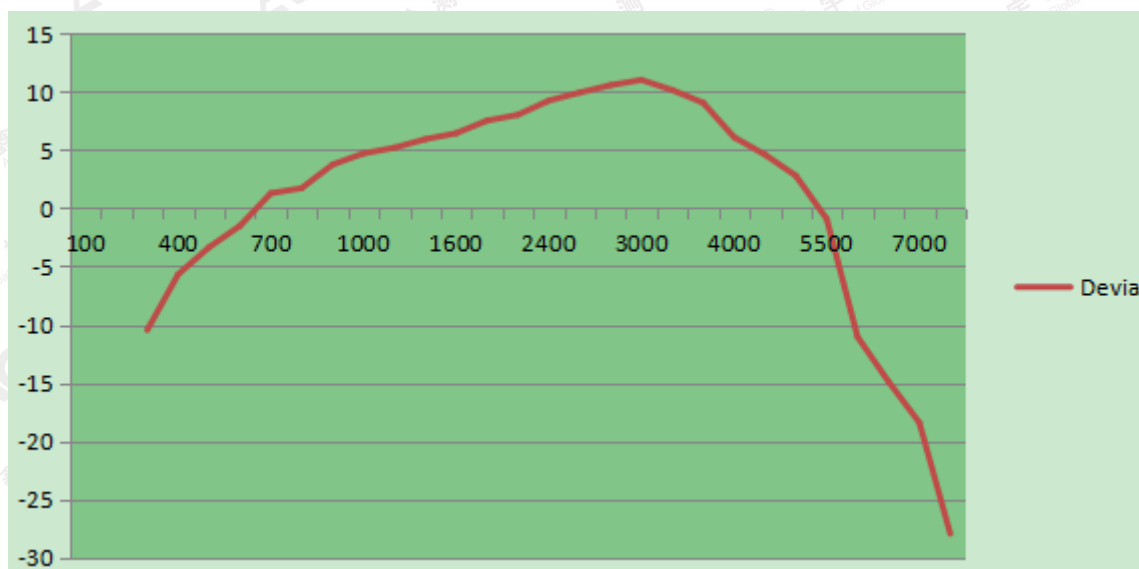
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(B). AUDIO FREQUENCY RESPONSE:
Middle Channel @ 25 KHz Channel Separations

Frequency (Hz)	Deviation (KHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.15	-10.46
400	0.26	-5.68
500	0.34	-3.35
600	0.42	-1.51
700	0.58	1.29
800	0.61	1.73
900	0.77	3.75
1000	0.86	4.71
1200	0.91	5.20
1400	0.99	5.93
1600	1.05	6.44
1800	1.19	7.53
2000	1.26	8.03
2400	1.45	9.25
2500	1.57	9.94
2800	1.69	10.58
3000	1.78	11.03
3200	1.61	10.16
3600	1.42	9.07
4000	1.01	6.11
4500	0.85	4.61
5000	0.69	2.80
5500	0.45	-0.92
6000	0.14	-11.06
6500	0.09	-14.89
7000	0.06	-18.42
7500	0.02	-27.96
9000	--	--
10000	--	--
14000	--	--
18000	--	--
20000	--	--
30000	--	--

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Frequency Response of High Channel



Note: All the modes had been tested, but only the worst data recorded in the report.

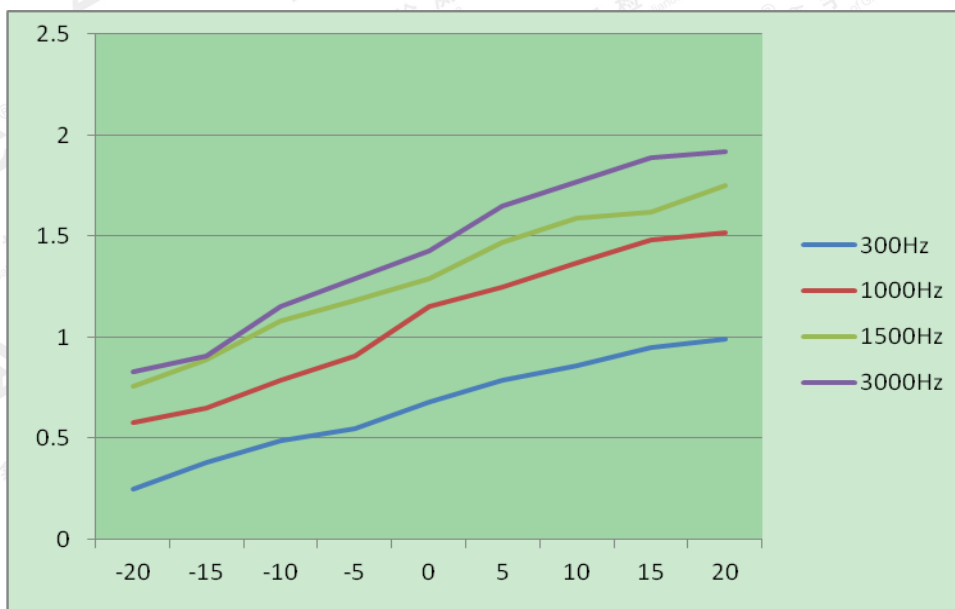
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

Digital:

(A). MODULATION LIMIT:

Middle Channel @ 12.5 KHz Channel Separations---H Power

Modulation Level (dB)	Peak Freq. Deviation At 300 Hz	Peak Freq. Deviation At 1000 Hz	Peak Freq. Deviation At 1500 Hz	Peak Freq. Deviation At 3000 Hz
-20	0.25	0.58	0.76	0.83
-15	0.38	0.65	0.89	0.91
-10	0.49	0.79	1.08	1.15
-5	0.55	0.91	1.18	1.29
0	0.68	1.15	1.29	1.43
+5	0.79	1.25	1.47	1.65
+10	0.86	1.37	1.59	1.77
+15	0.95	1.48	1.62	1.89
+20	0.99	1.52	1.75	1.92



Note: All the modes had been tested, but only the worst data recorded in the report.

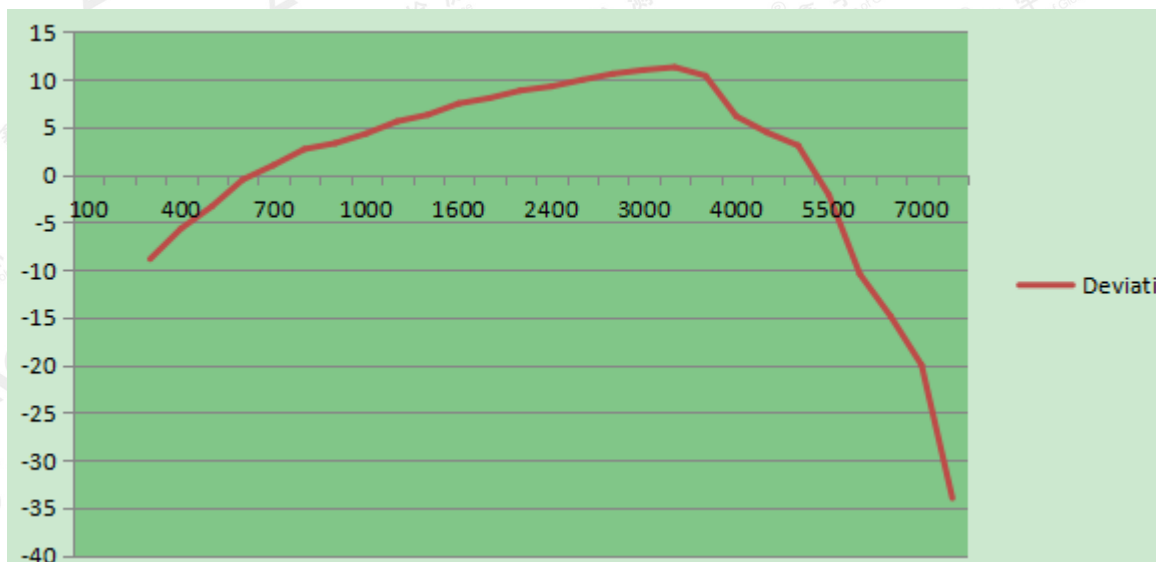
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(B). AUDIO FREQUENCY RESPONSE:
Middle Channel @ 12.5 KHz Channel Separations---H Power

Frequency (Hz)	Deviation (KHz)	Audio Frequency Response(dB)
100	--	--
200	--	--
300	0.18	-8.87
400	0.26	-5.68
500	0.34	-3.35
600	0.47	-0.54
700	0.56	0.98
800	0.68	2.67
900	0.73	3.29
1000	0.82	4.30
1200	0.95	5.58
1400	1.03	6.28
1600	1.18	7.46
1800	1.26	8.03
2000	1.38	8.82
2400	1.45	9.25
2500	1.57	9.94
2800	1.69	10.58
3000	1.77	10.98
3200	1.83	11.27
3600	1.65	10.37
4000	1.01	6.11
4500	0.83	4.40
5000	0.71	3.05
5500	0.39	-2.16
6000	0.15	-10.46
6500	0.09	-14.89
7000	0.05	-20.00
7500	0.01	-33.98
9000	--	--
10000	--	--
14000	--	--
18000	--	--
20000	--	--
30000	--	--

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Frequency Response of Bottom Channel---H Power



Note: All the modes had been tested, but only the worst data recorded in the report.

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9. MAXIMUM TRANSMITTER POWER (CONDUCTED OUTPUT POWER)

9.1 PROVISIONS APPLICABLE

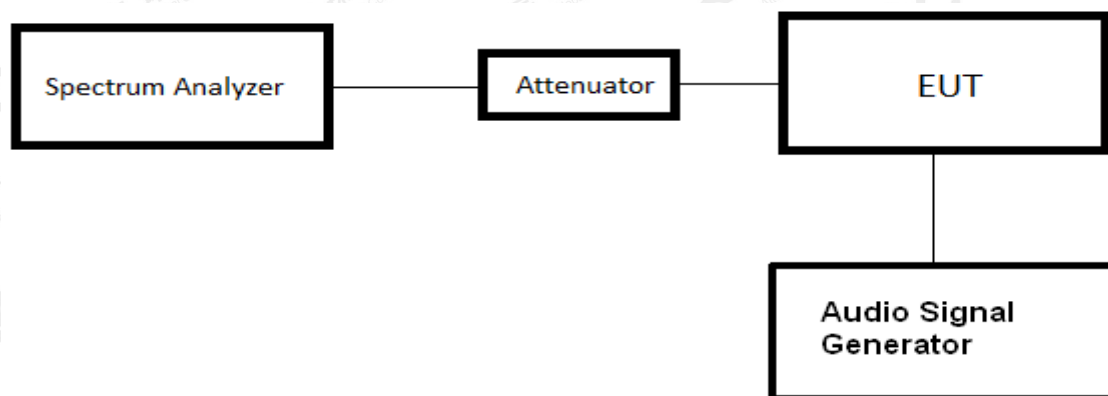
Per FCC §2.1046 § 22.565 and §90.205: Maximum ERP is dependent upon the station's antenna HAAT and required service area.

9.2 TEST PROCEDURE

The RF output of Two-way Radio was conducted to a spectrum analyzer through an appropriate attenuator.

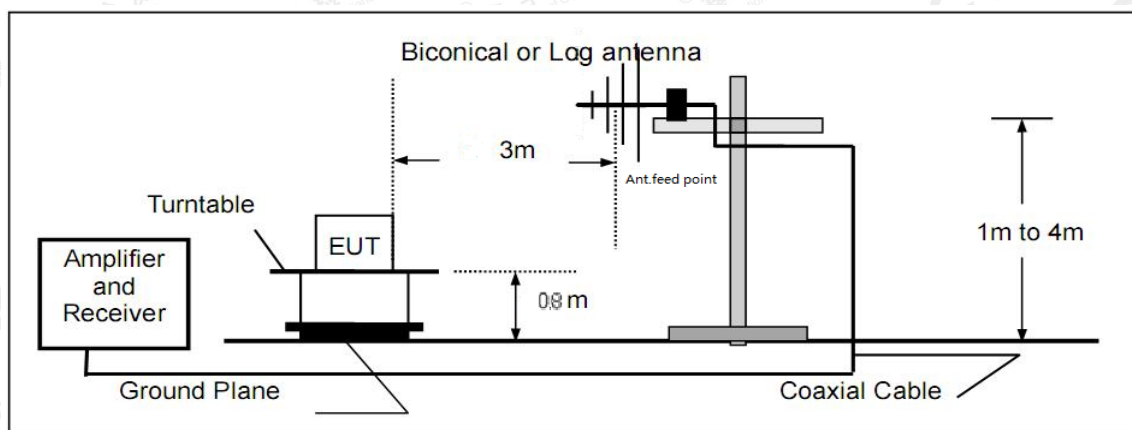
9.3 TEST CONFIGURATION

Conducted Output Power:

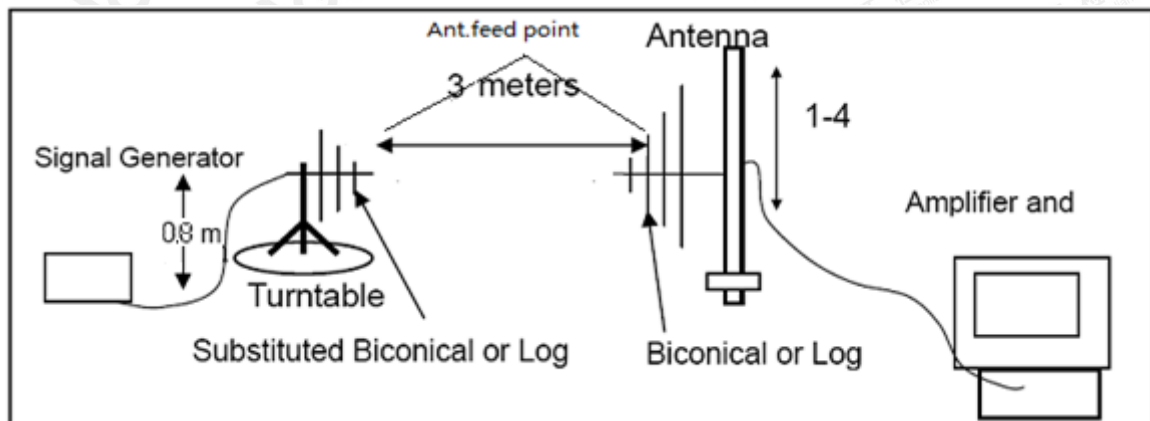


Effective Radiated Power

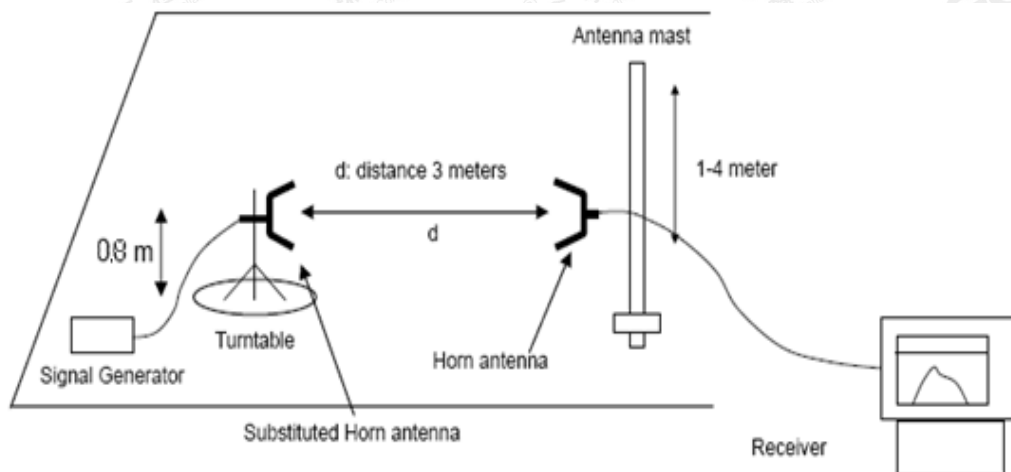
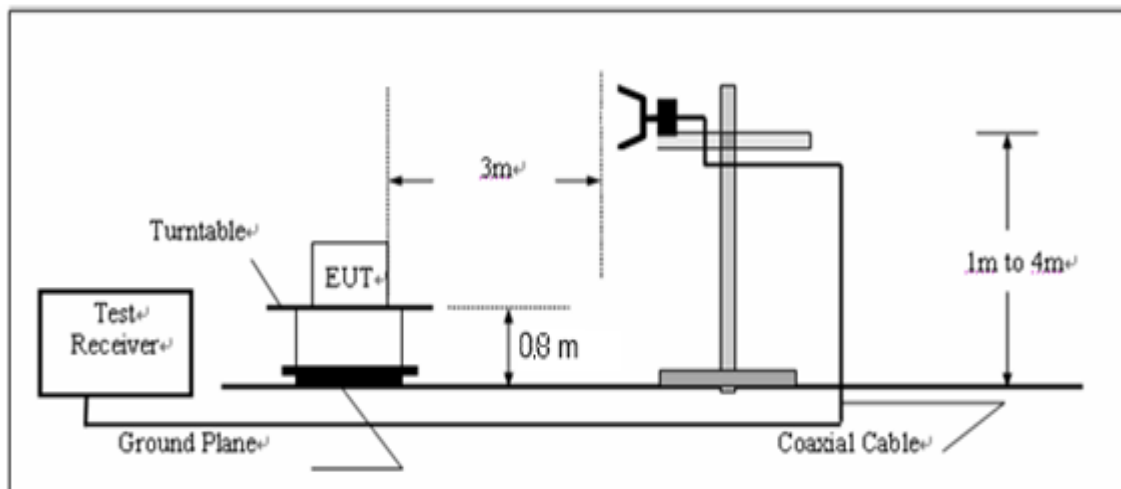
Radiated Below 1GHz



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Radiated Above 1 GHz



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9.4 TEST RESULT

The maximum Conducted Power (CP) for VHF/UHF is

Analog: 5W/1 W for 12.5 KHz Channel Separation

Digital: 5W/1 W for 12.5 KHz Channel Separation

Calculation Formula: $CP = R + A + L$

Note:

CP: The final Conducted Power

R : The reading value from spectrum analyzer

A : The attenuation value of the used attenuator

L : The loss of all connection cables

VHF:

Analog:

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(136.025MHz)	36.71
	Middle(151.850MHz)	36.86
	Middle(155.025MHz)	36.78
	Middle(161.610MHz)	36.69
	Top (173.975MHz)	36.77

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(136.025MHz)	36.89
	Middle(151.850MHz)	36.81
	Middle(155.025MHz)	36.76
	Middle(161.610MHz)	36.70
	Top (173.975MHz)	36.85

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Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(136.025MHz)	29.75
	Middle(151.850MHz)	29.89
	Middle(155.025MHz)	29.71
	Middle(161.610MHz)	29.84
	Top (173.975MHz)	29.88

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(136.025MHz)	29.81
	Middle(151.850MHz)	29.75
	Middle(155.025MHz)	29.79
	Middle(161.610MHz)	29.88
	Top (173.975MHz)	29.73

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Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
25 KHz	Bottom(136.025MHz)	36.86
	Middle(151.850MHz)	36.81
	Middle(155.025MHz)	36.77
	Middle(161.610MHz)	36.72
	Top (173.975MHz)	36.84

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
25 KHz	Bottom(136.025MHz)	36.84
	Middle(151.850MHz)	36.69
	Middle(155.025MHz)	36.77
	Middle(161.610MHz)	36.89
	Top (173.975MHz)	36.71

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Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
25 KHz	Bottom(136.025MHz)	29.69
	Middle(151.850MHz)	29.88
	Middle(155.025MHz)	29.71
	Middle(161.610MHz)	29.75
	Top (173.975MHz)	29.83

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
25 KHz	Bottom(136.025MHz)	29.83
	Middle(151.850MHz)	29.78
	Middle(155.025MHz)	29.71
	Middle(161.610MHz)	29.89
	Top (173.975MHz)	29.81

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Digital:

Date + voice:

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(136.025MHz)	36.74
	Middle(151.850MHz)	36.81
	Middle(155.025MHz)	36.81
	Middle(161.610MHz)	36.79
	Top (173.975MHz)	36.74

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(136.025MHz)	36.72
	Middle(151.850MHz)	36.79
	Middle(155.025MHz)	36.81
	Middle(161.610MHz)	36.84
	Top (173.975MHz)	36.83

Date transmission mode:

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(136.025MHz)	36.84
	Middle(151.850MHz)	36.71
	Middle(155.025MHz)	36.88
	Middle(161.610MHz)	36.83
	Top (173.975MHz)	36.76

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Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(136.025MHz)	36.74
	Middle(151.850MHz)	36.85
	Middle(155.025MHz)	36.71
	Middle(161.610MHz)	36.79
	Top (173.975MHz)	36.83

Date + voice:

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(136.025MHz)	29.81
	Middle(151.850MHz)	29.71
	Middle(155.025MHz)	29.83
	Middle(161.610MHz)	29.82
	Top (173.975MHz)	29.71

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(136.025MHz)	29.81
	Middle(151.850MHz)	29.79
	Middle(155.025MHz)	29.81
	Middle(161.610MHz)	29.75
	Top (173.975MHz)	29.73

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Date transmission mode:

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(136.025MHz)	29.72
	Middle(151.850MHz)	29.85
	Middle(155.025MHz)	29.79
	Middle(161.610MHz)	29.86
	Top (173.975MHz)	29.76

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(136.025MHz)	29.81
	Middle(151.850MHz)	29.75
	Middle(155.025MHz)	29.71
	Middle(161.610MHz)	29.88
	Top (173.975MHz)	29.83

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UHF:

Analog:

Conducted Power Measurement Results-5W		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(400.025MHz)	36.84
	Middle(453.225MHz)	36.79
	Middle(454.025MHz)	36.88
	Top (479.975MHz)	36.71

Radiated Power Measurement Results-5W		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(400.025MHz)	36.87
	Middle(453.225MHz)	36.76
	Middle(454.025MHz)	36.81
	Top (479.975MHz)	36.78

Conducted Power Measurement Results-1W		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(400.025MHz)	29.76
	Middle(453.225MHz)	29.81
	Middle(454.025MHz)	29.89
	Top (479.975MHz)	29.78

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Radiated Power Measurement Results-1W		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(400.025MHz)	29.81
	Middle(453.225MHz)	29.85
	Middle(454.025MHz)	29.89
	Top (479.975MHz)	29.76

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Conducted Power Measurement Results-5W		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
25 KHz	Bottom(400.025MHz)	36.81
	Middle(453.225MHz)	36.79
	Middle(454.025MHz)	36.72
	Top (479.975MHz)	36.83

Radiated Power Measurement Results-5W		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
25 KHz	Bottom(400.025MHz)	36.85
	Middle(453.225MHz)	36.79
	Middle(454.025MHz)	36.82
	Top (479.975MHz)	36.87

Conducted Power Measurement Results-1W		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
25 KHz	Bottom(400.025MHz)	29.83
	Middle(453.225MHz)	29.89
	Middle(454.025MHz)	29.75
	Top (479.975MHz)	29.72

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Radiated Power Measurement Results-1W		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
25 KHz	Bottom(400.025MHz)	29.74
	Middle(453.225MHz)	29.83
	Middle(454.025MHz)	29.88
	Top (479.975MHz)	29.71

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Digital:

Date + voice:

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(400.025MHz)	36.74
	Middle(453.225MHz)	36.83
	Middle(454.025MHz)	36.69
	Top (479.975MHz)	36.71

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(400.025MHz)	36.78
	Middle(453.225MHz)	36.84
	Middle(454.025MHz)	36.71
	Top (479.975MHz)	36.78

Date transmission mode:

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(400.025MHz)	36.72
	Middle(453.225MHz)	36.85
	Middle(454.025MHz)	36.83
	Top (479.975MHz)	36.70

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Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 36.99dBm(5W)
12.5 KHz	Bottom(400.025MHz)	36.86
	Middle(453.225MHz)	36.77
	Middle(454.025MHz)	36.72
	Top (479.975MHz)	36.81

Date + voice:

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(400.025MHz)	29.88
	Middle(453.225MHz)	29.69
	Middle(454.025MHz)	29.74
	Top (479.975MHz)	29.79

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(400.025MHz)	29.79
	Middle(453.225MHz)	29.81
	Middle(454.025MHz)	29.76
	Top (479.975MHz)	29.88

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Date transmission mode:

Conducted Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(400.025MHz)	29.74
	Middle(453.225MHz)	29.80
	Middle(454.025MHz)	29.81
	Top (479.975MHz)	29.77

Radiated Power Measurement Results		
Channel Separation	Channel	Measurement Result (dBm)
		For 30dBm(1W)
12.5 KHz	Bottom(400.025MHz)	29.83
	Middle(453.225MHz)	29.74
	Middle(454.025MHz)	29.71
	Top (479.975MHz)	29.79

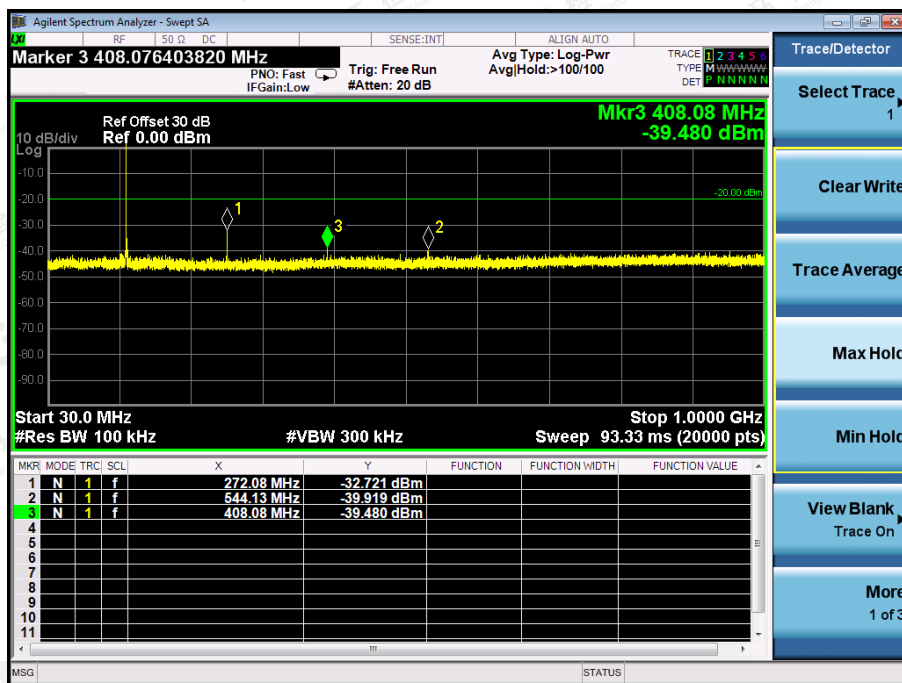
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

9.5 CONDUCT SPURIOUS PLOT

VHF:

Analog:

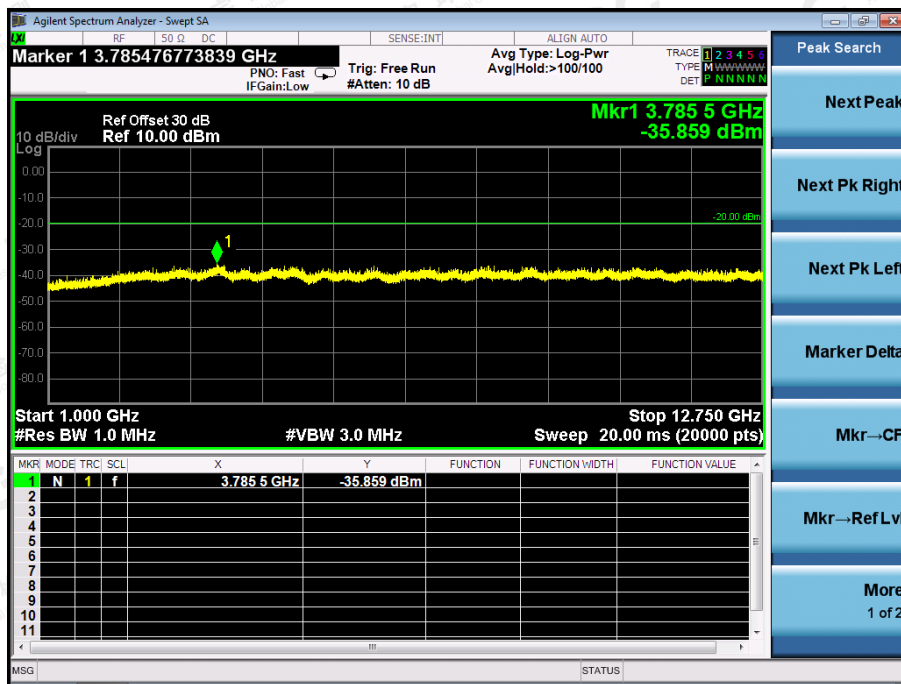
Conducted Spurious Emission (worst) @136.025MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



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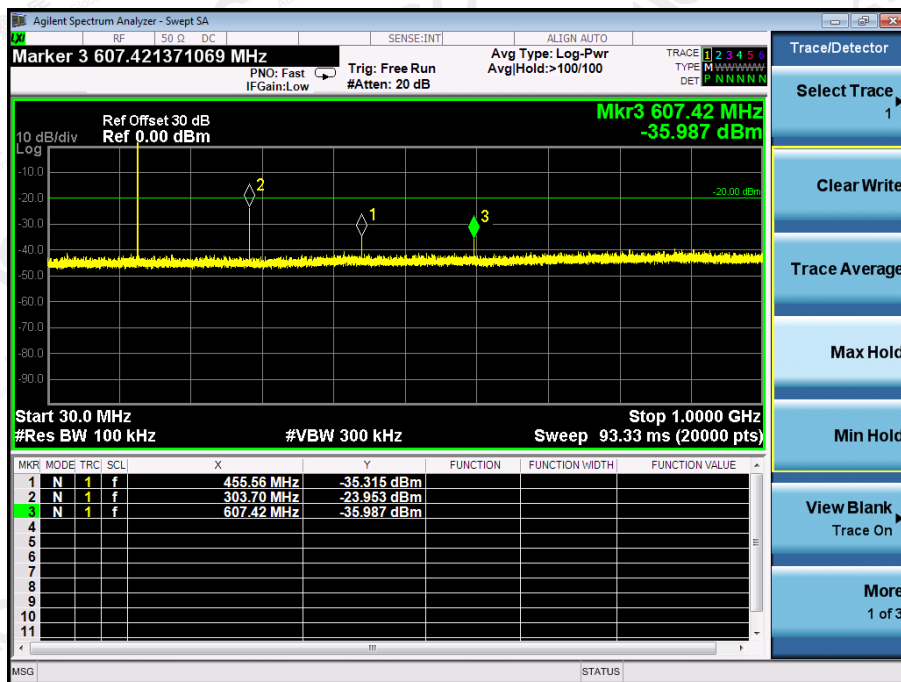
Conduct Spurious Emission (worst) @ 136.025MHz With 12.5 KHz Channel Separation-1W

1GHz-12.75GHz



Conducted Spurious Emission (worst) @151.850 MHz With 12.5 KHz Channel Separation-5W

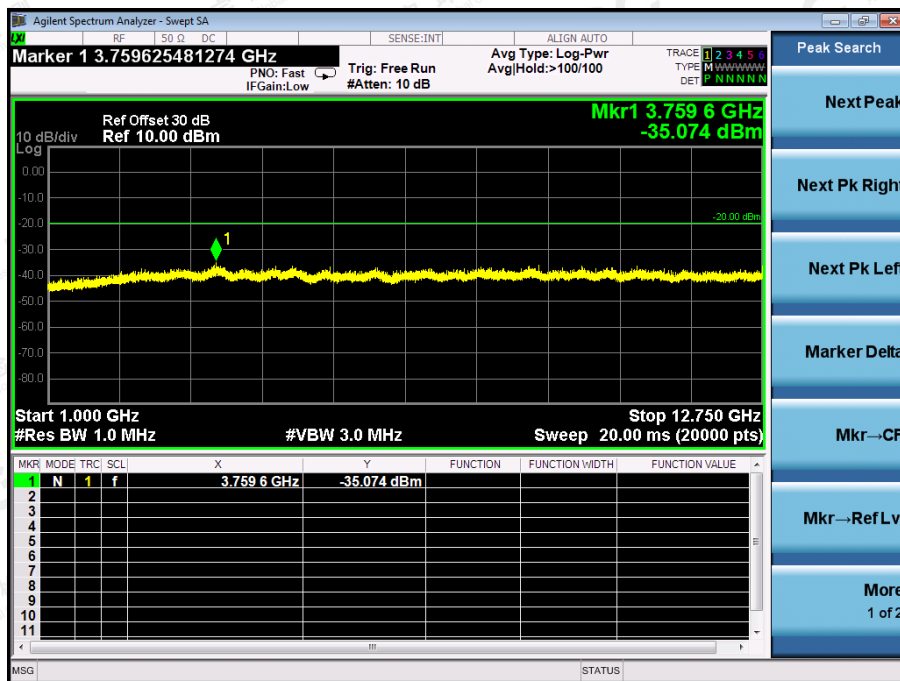
30MHz-1GHz



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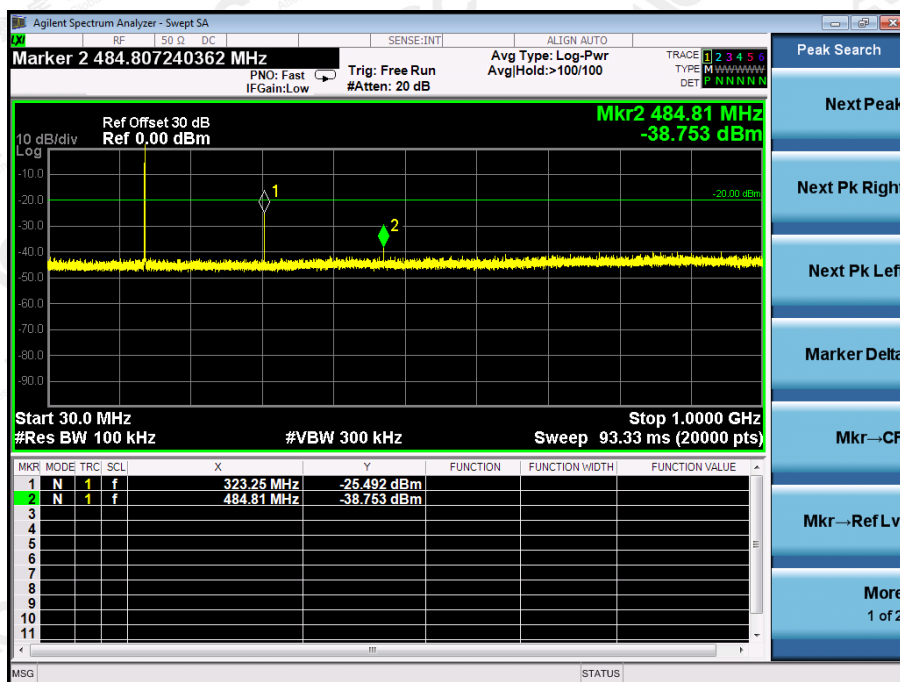
Conduct Spurious Emission (worst) @ 151.850MHz With 12.5 KHz Channel Separation-5W

1GHz-12.75GHz



Conducted Spurious Emission (worst) @161.610 MHz With 12.5 KHz Channel Separation-5W

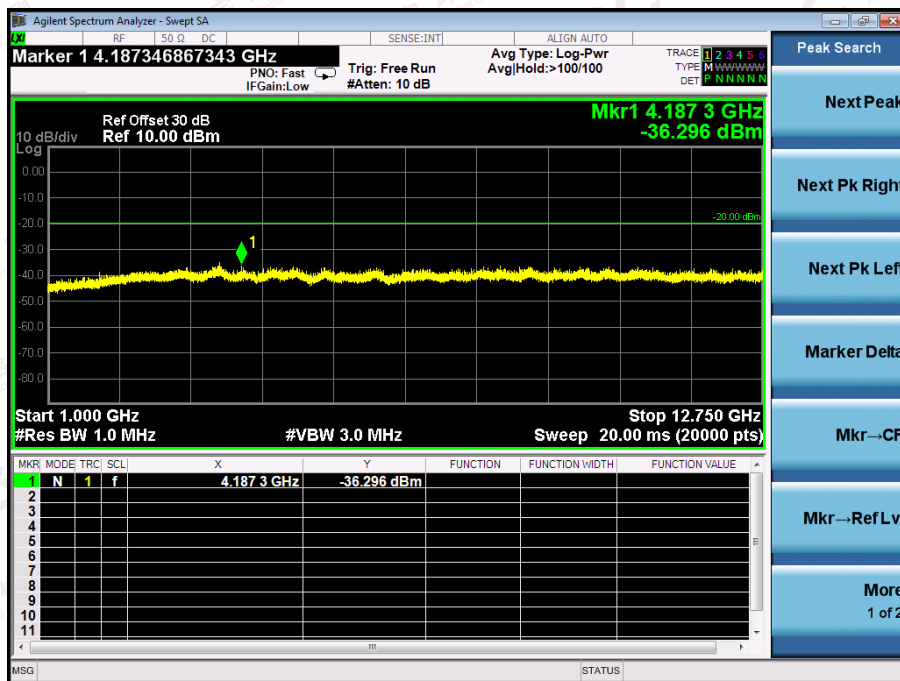
30MHz-1GHz



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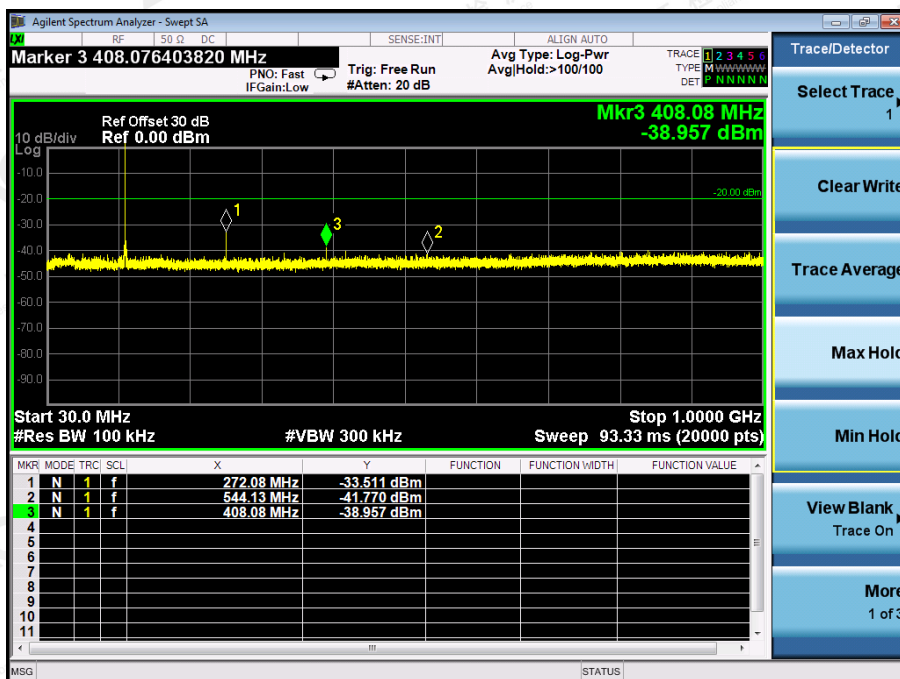
Conduct Spurious Emission (worst) @ 161.610MHz With 12.5 KHz Channel Separation-5W

1GHz-12.75GHz



Conducted Spurious Emission (worst) @136.025MHz With 12.5 KHz Channel Separation-1W

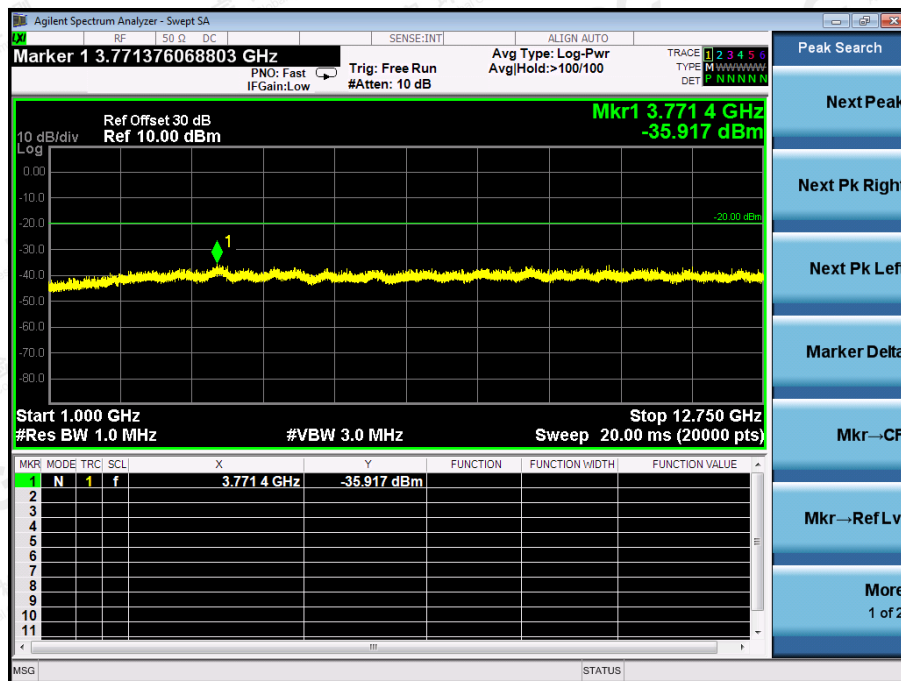
30MHz-1GHz



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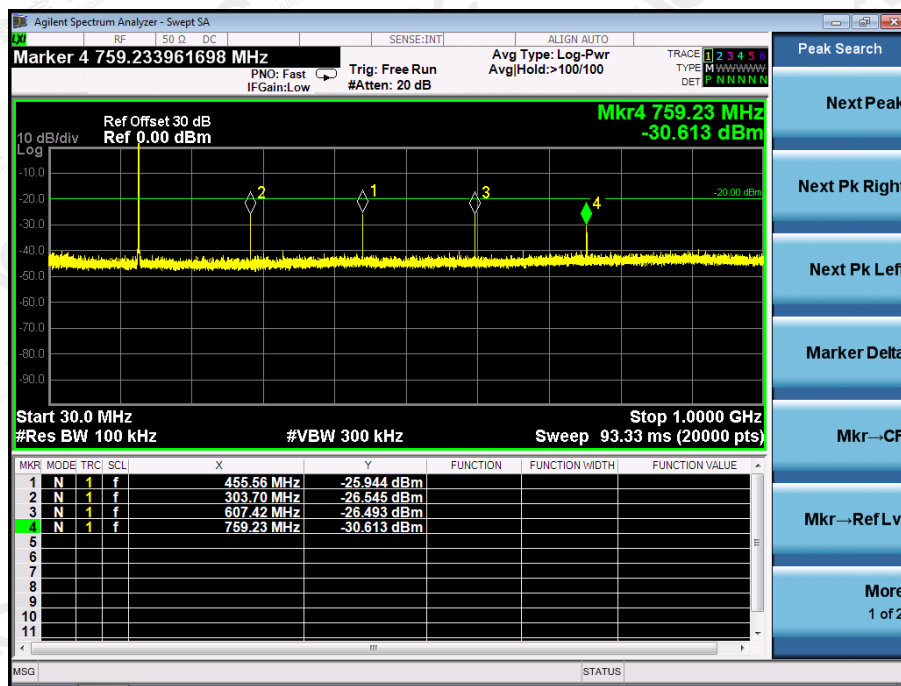
Conduct Spurious Emission (worst) @ 136.025MHz With 12.5 KHz Channel Separation-1W

1GHz-12.75GHz



Conducted Spurious Emission (worst) @151.850 MHz With 12.5 KHz Channel Separation-5W

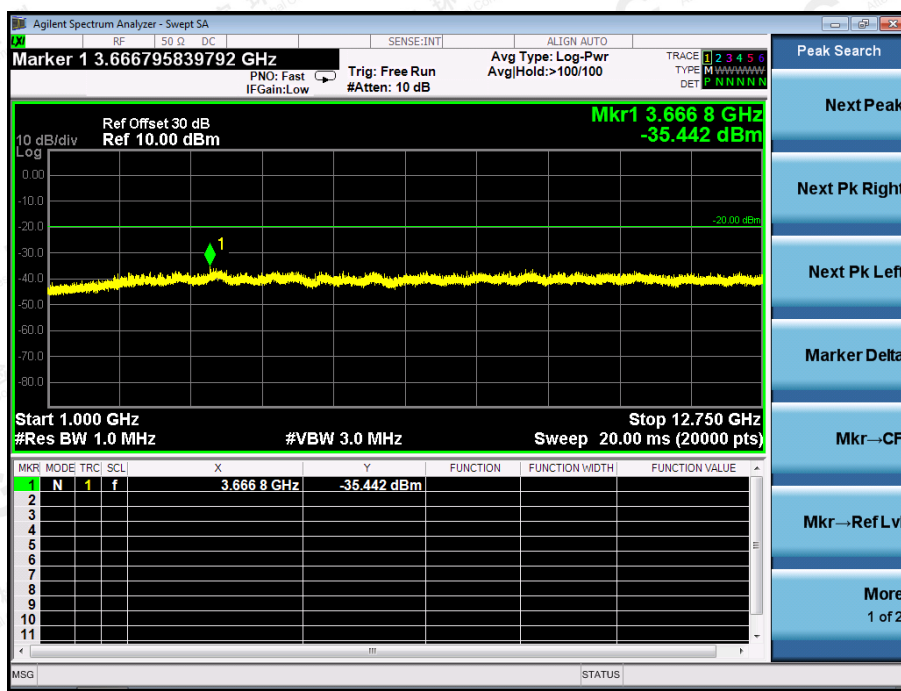
30MHz-1GHz



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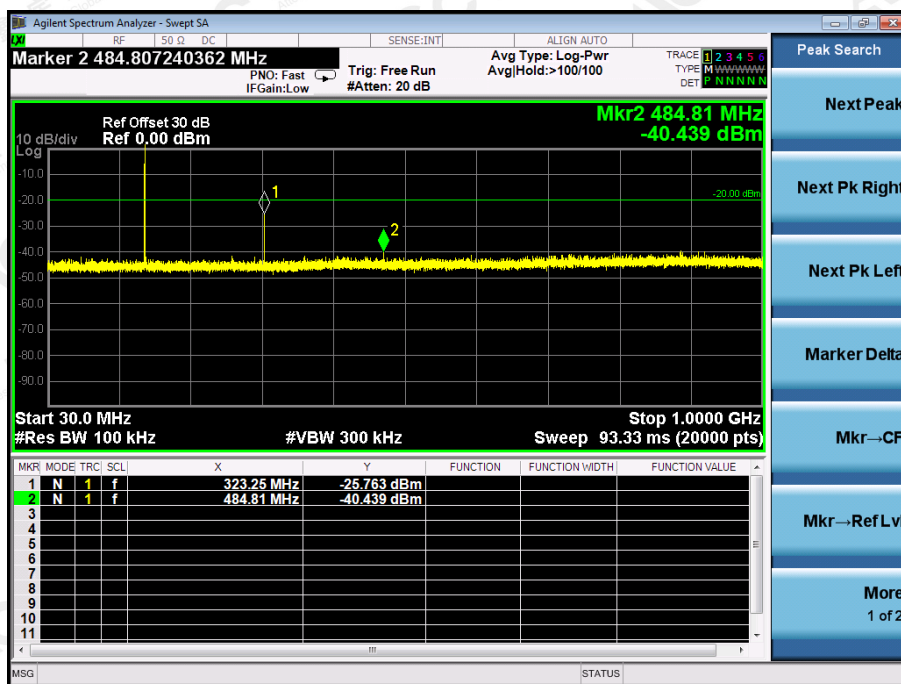
Conduct Spurious Emission (worst) @ 151.850MHz With 12.5 KHz Channel Separation-5W

1GHz-12.75GHz



Conducted Spurious Emission (worst) @173.975MHz With 12.5 KHz Channel Separation-1W

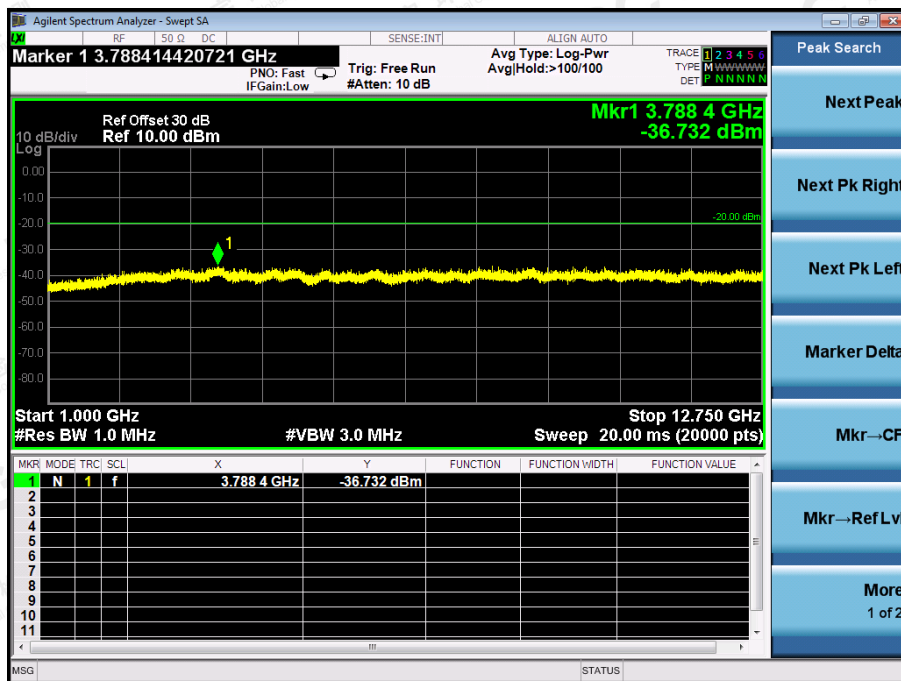
30MHz-1GHz



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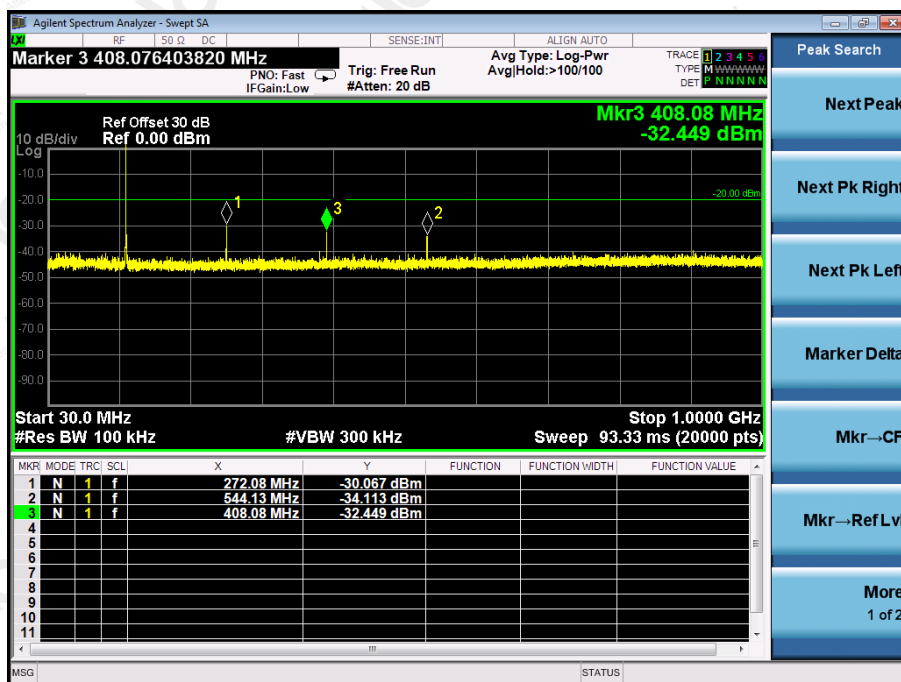
Conduct Spurious Emission (worst) @ 173.975MHz With 12.5 KHz Channel Separation-1W

1GHz-12.75GHz



Conducted Spurious Emission (worst) @136.025MHz With 12.5 KHz Channel Separation-5W

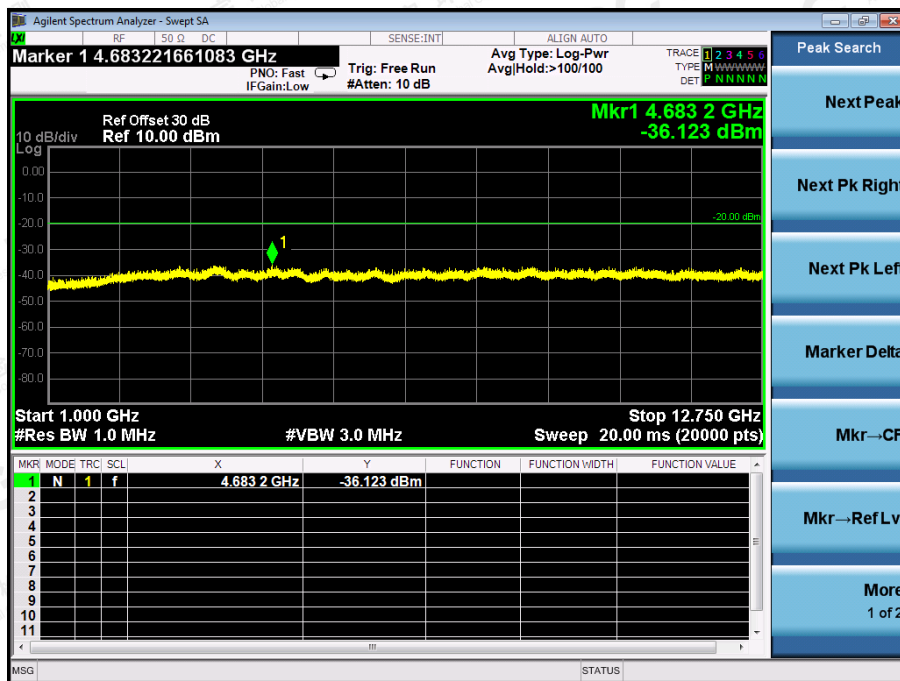
30MHz-1GHz



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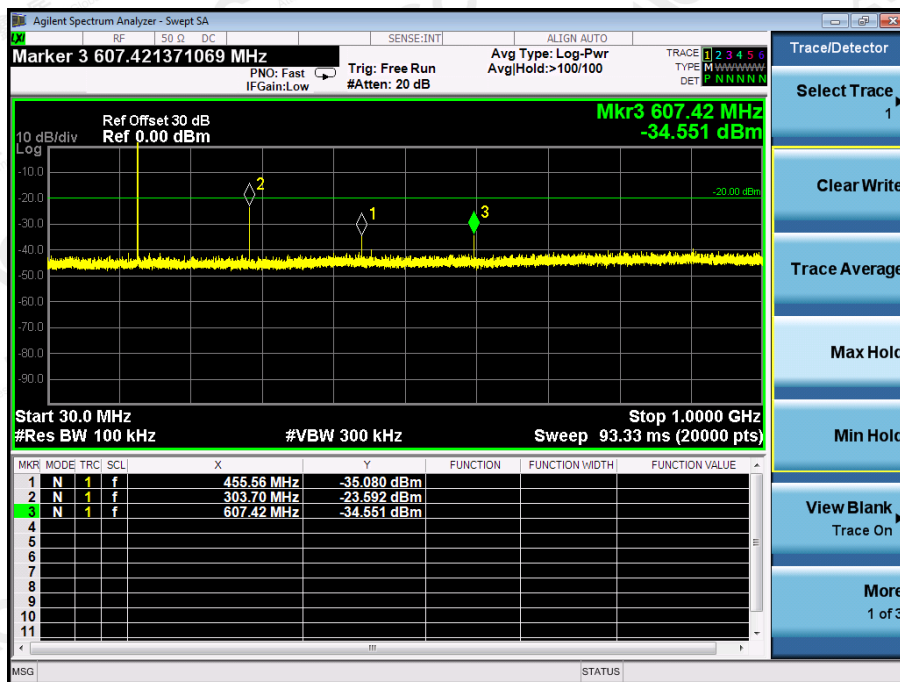
Conduct Spurious Emission (worst) @ 136.025MHz With 12.5 KHz Channel Separation-5W

1GHz-12.75GHz



Conducted Spurious Emission (worst) @151.850 MHz With 12.5 KHz Channel Separation-1W

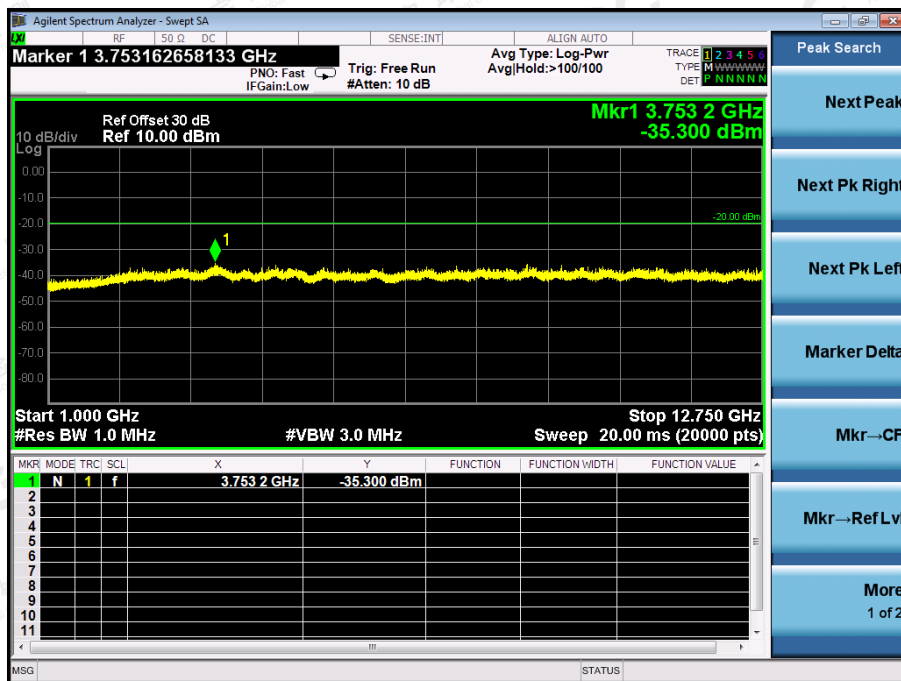
30MHz-1GHz



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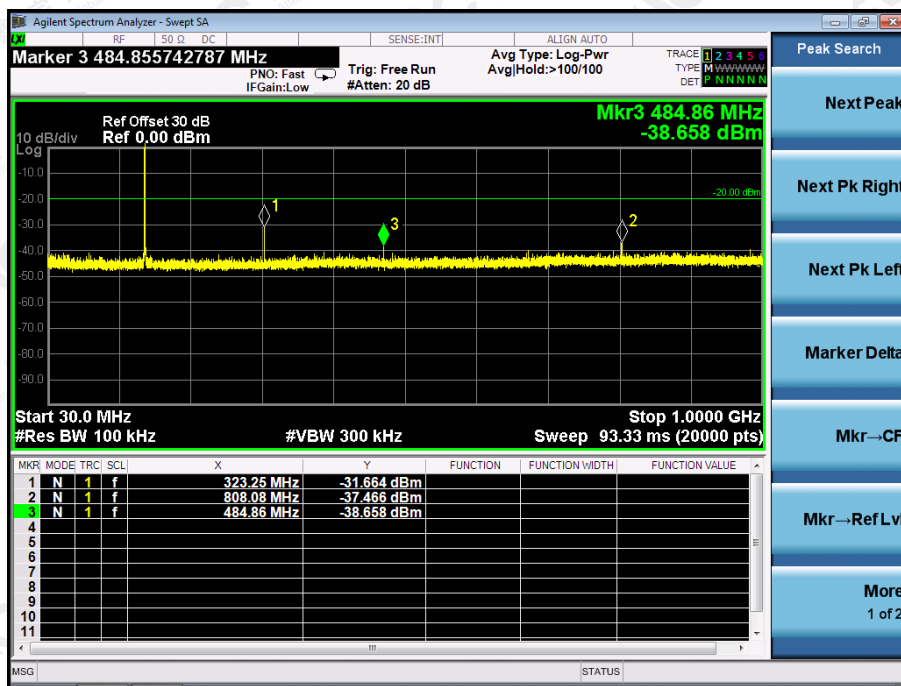
Conduct Spurious Emission (worst) @ 151.850MHz With 12.5 KHz Channel Separation-1W

1GHz-12.75GHz



Conducted Spurious Emission (worst) @173.975 MHz With 12.5 KHz Channel Separation-5W

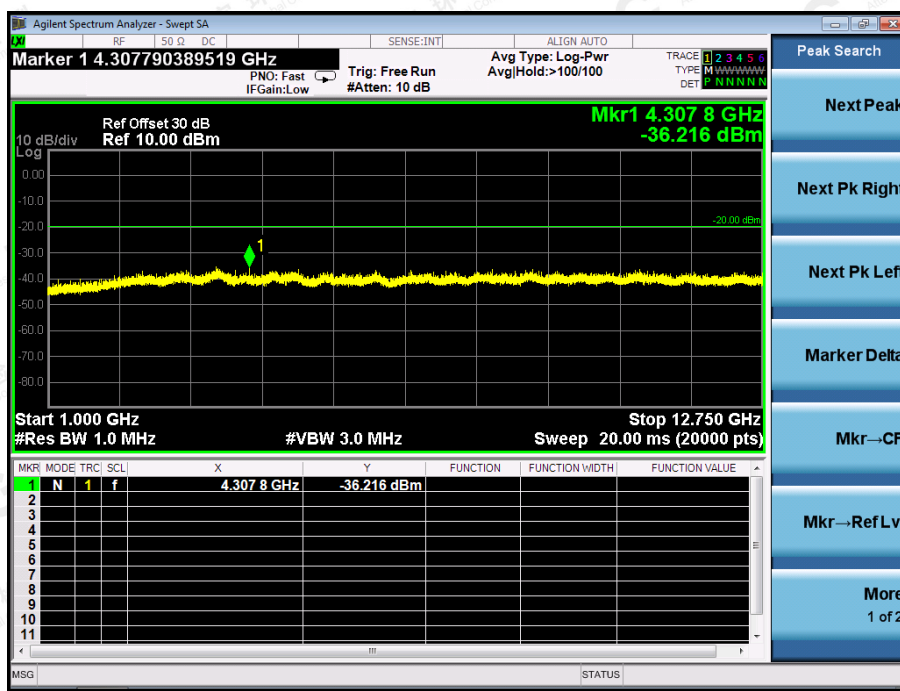
30MHz-1GHz



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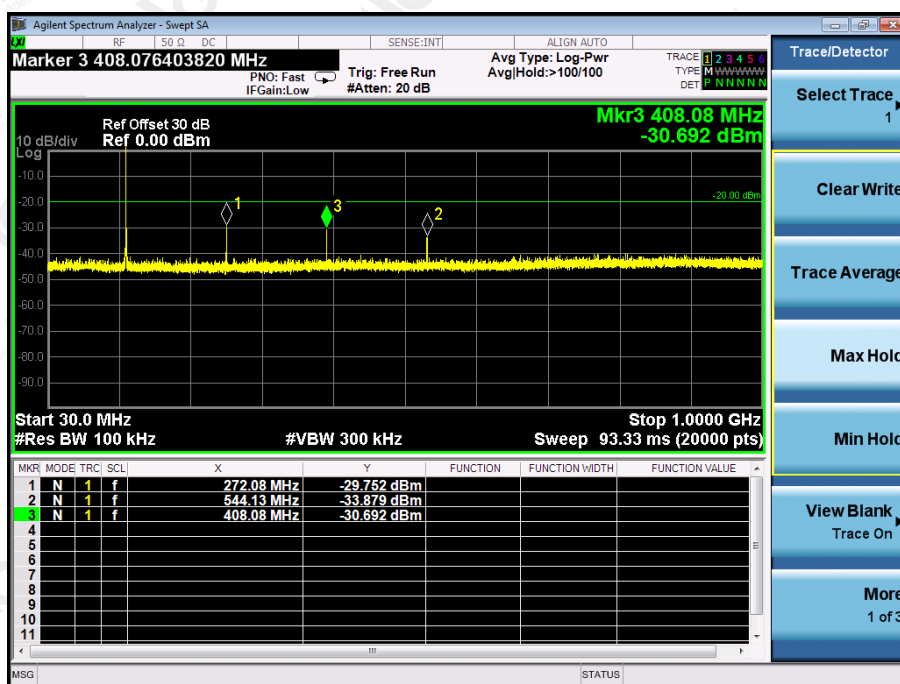
Conduct Spurious Emission (worst) @ 173.975MHz With 12.5 KHz Channel Separation-5W

1GHz-12.75GHz



Conducted Spurious Emission (worst) @136.025MHz With 25 KHz Channel Separation-5W

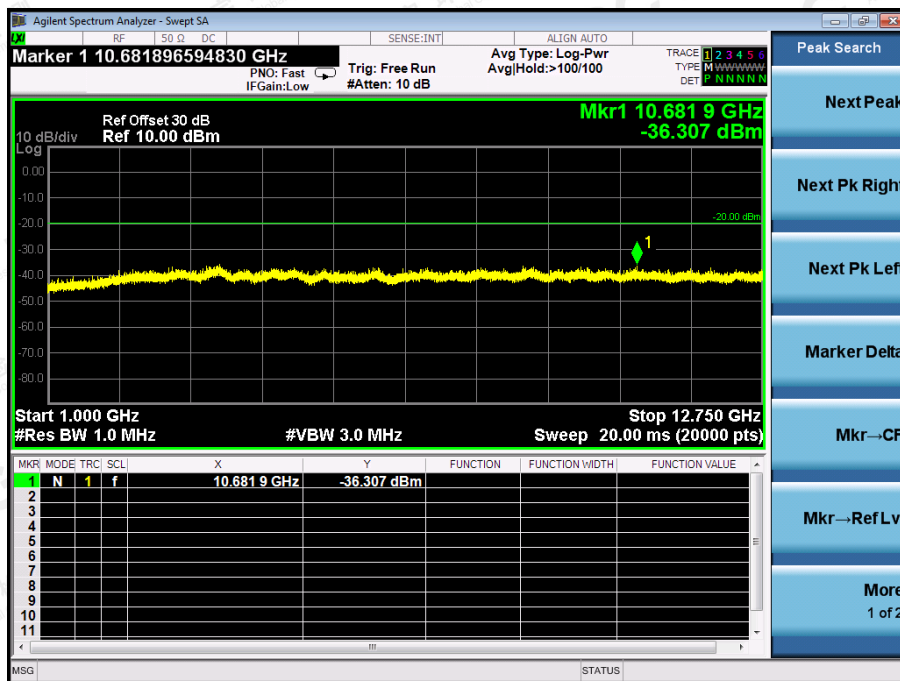
30MHz-1GHz



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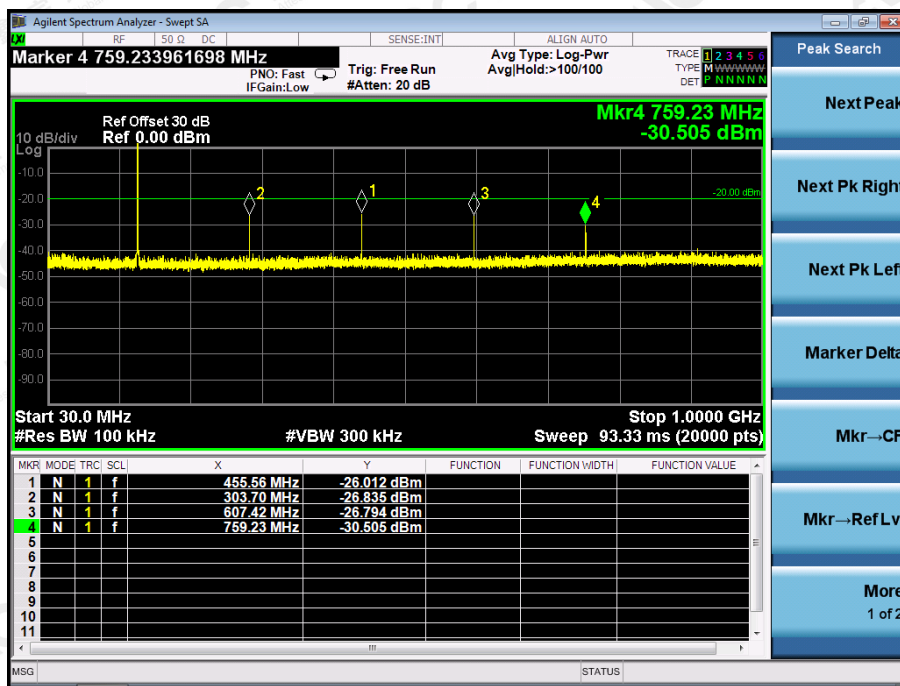
Conduct Spurious Emission (worst) @ 136.025MHz With 25 KHz Channel Separation-5W

1GHz-12.75GHz



Conducted Spurious Emission (worst) @151.850 MHz With 25 KHz Channel Separation-5W

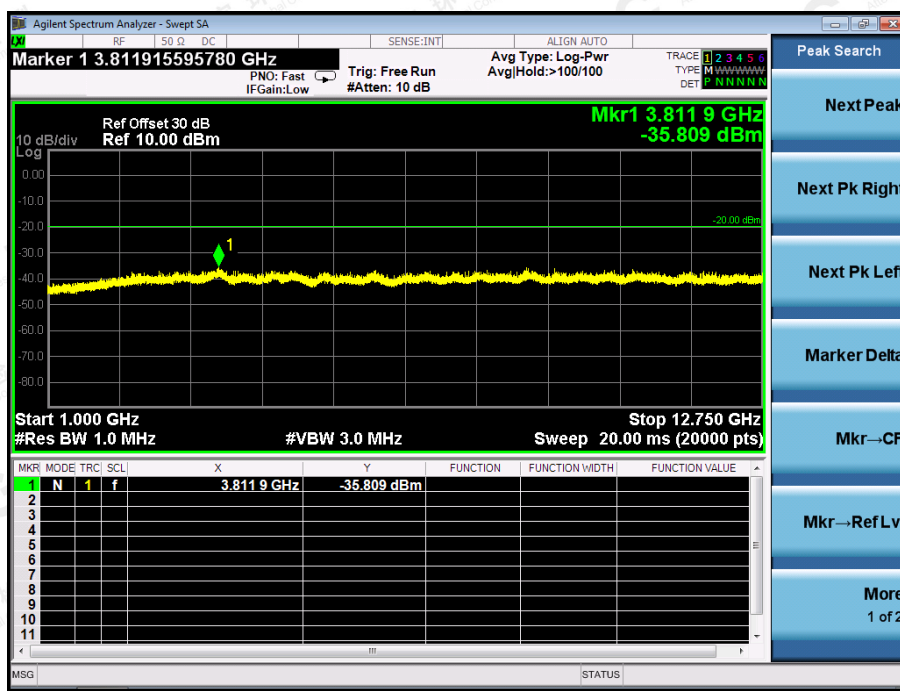
30MHz-1GHz



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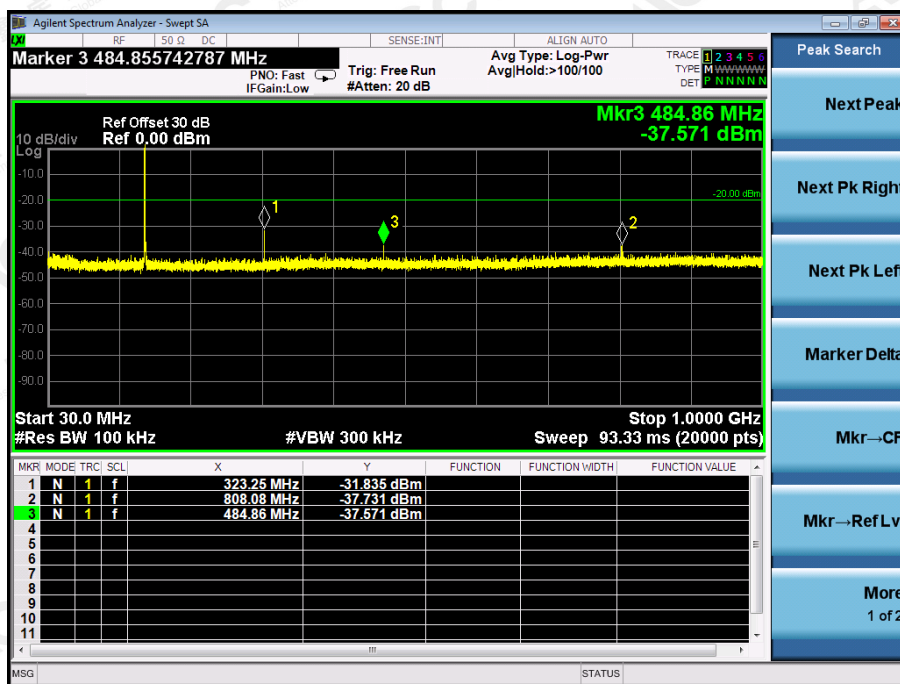
Conduct Spurious Emission (worst) @ 151.850MHz With 25 KHz Channel Separation-5W

1GHz-12.75GHz



Conducted Spurious Emission (worst) @173.975 MHz With 25 KHz Channel Separation-5W

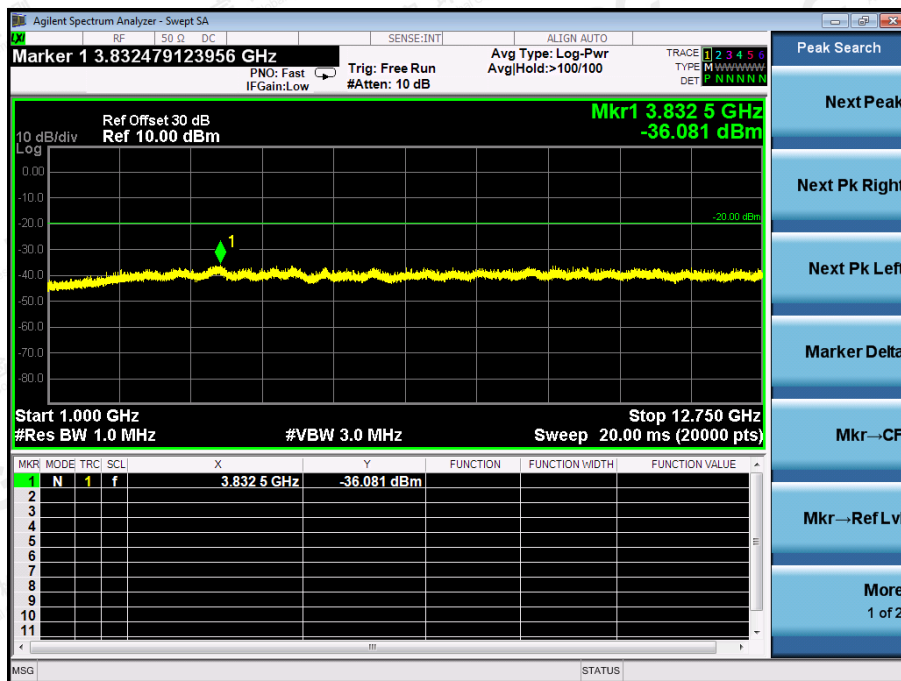
30MHz-1GHz



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Conduct Spurious Emission (worst) @ 173.975MHz With 25 KHz Channel Separation-5W

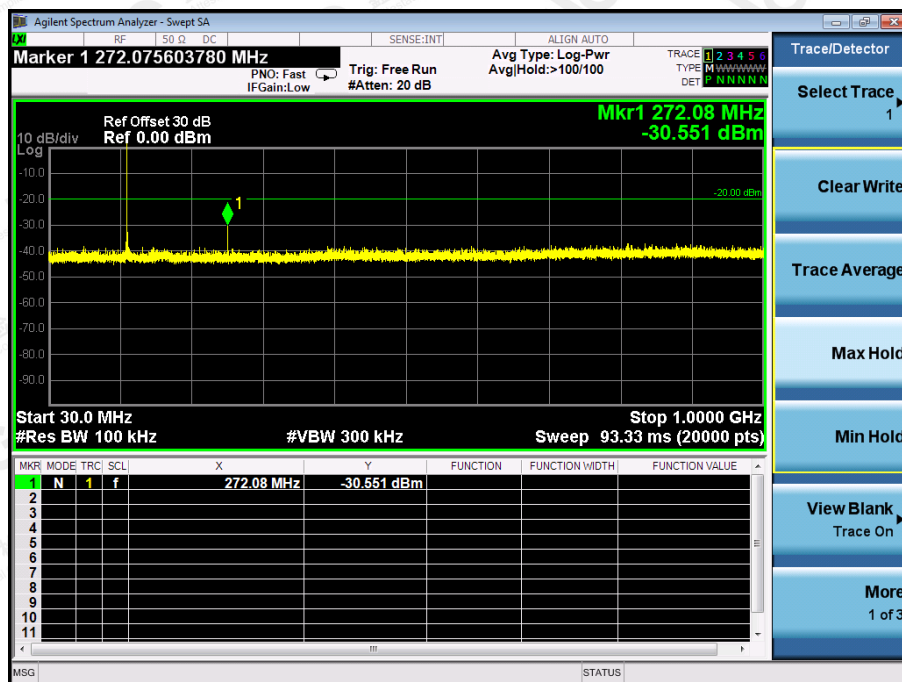
1GHz-12.75GHz



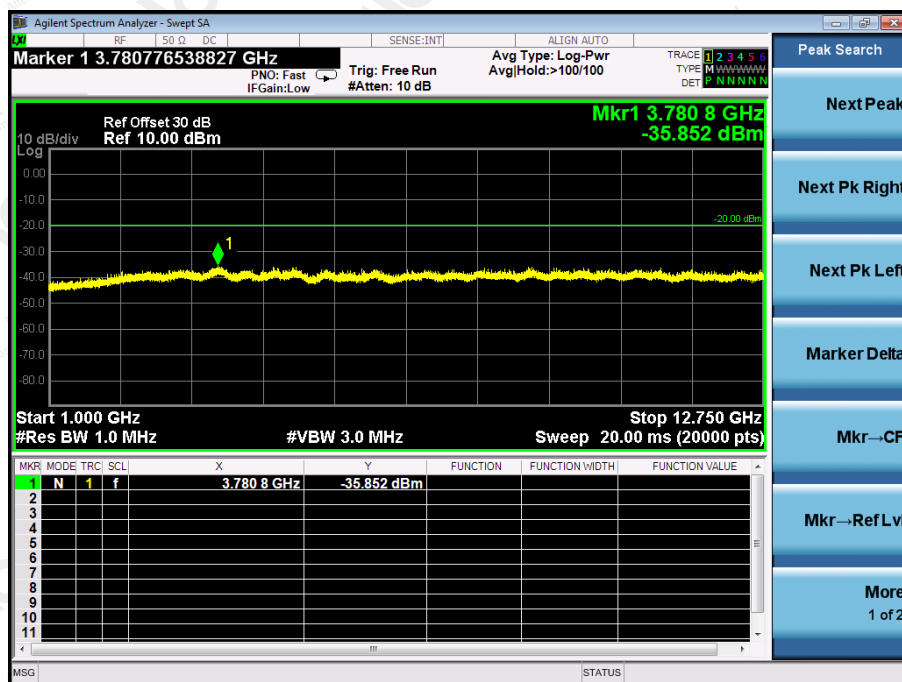
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Digital:

Conducted Spurious Emission (worst) @136.025MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



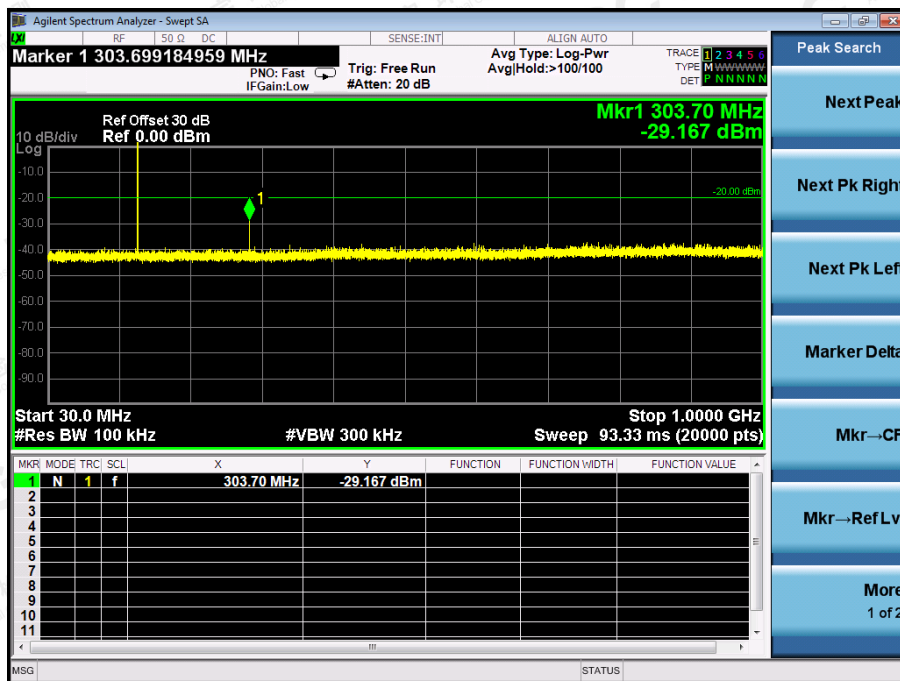
Conduct Spurious Emission (worst) @ 136.025MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



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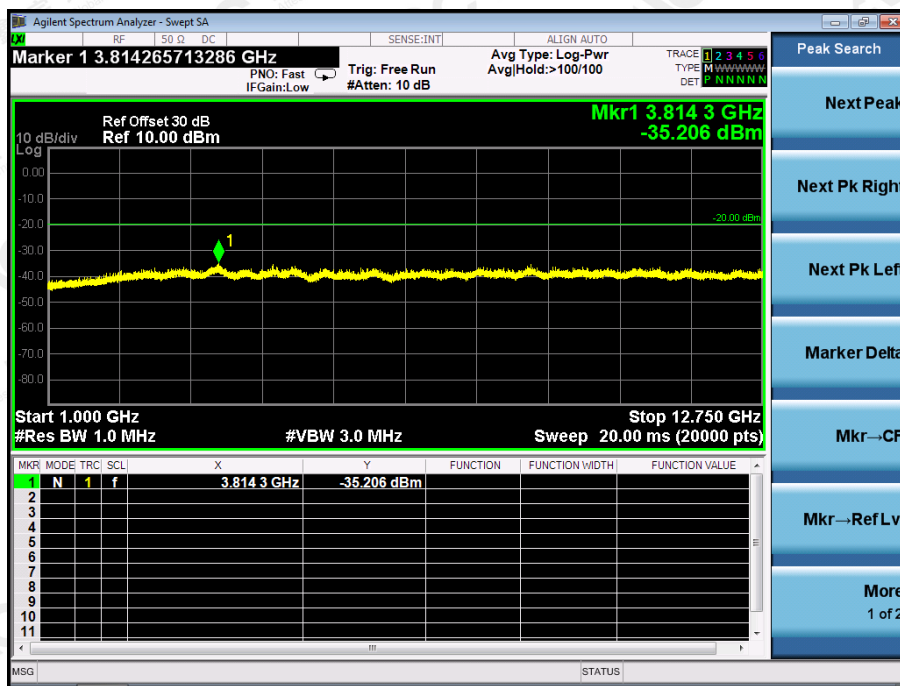
Conducted Spurious Emission (worst) @151.850 MHz With 12.5 KHz Channel Separation-1W

30MHz-1GHz



Conduct Spurious Emission (worst) @ 151.850MHz With 12.5 KHz Channel Separation-1W

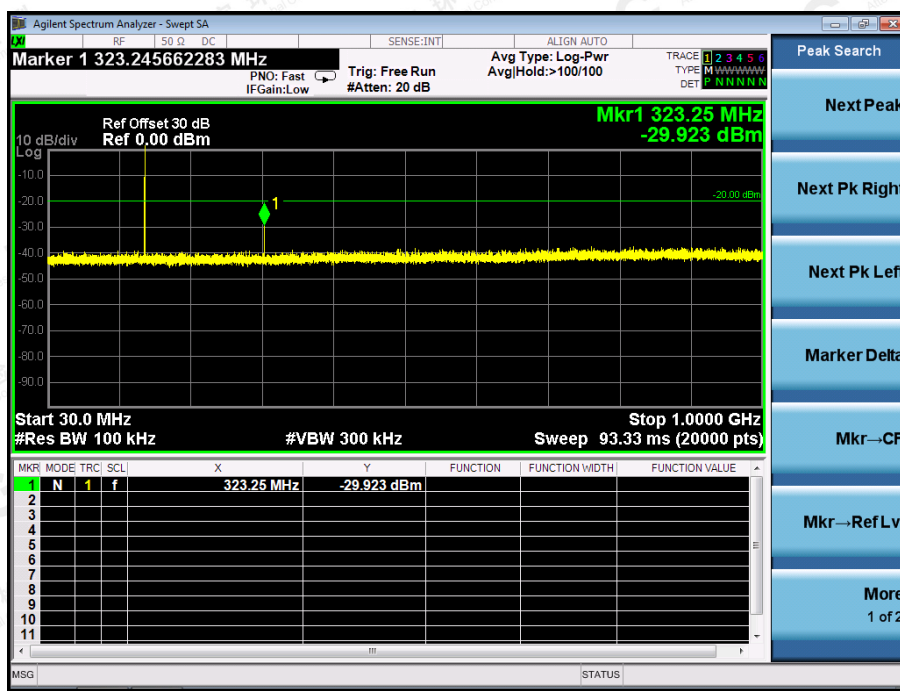
1GHz-12.75GHz



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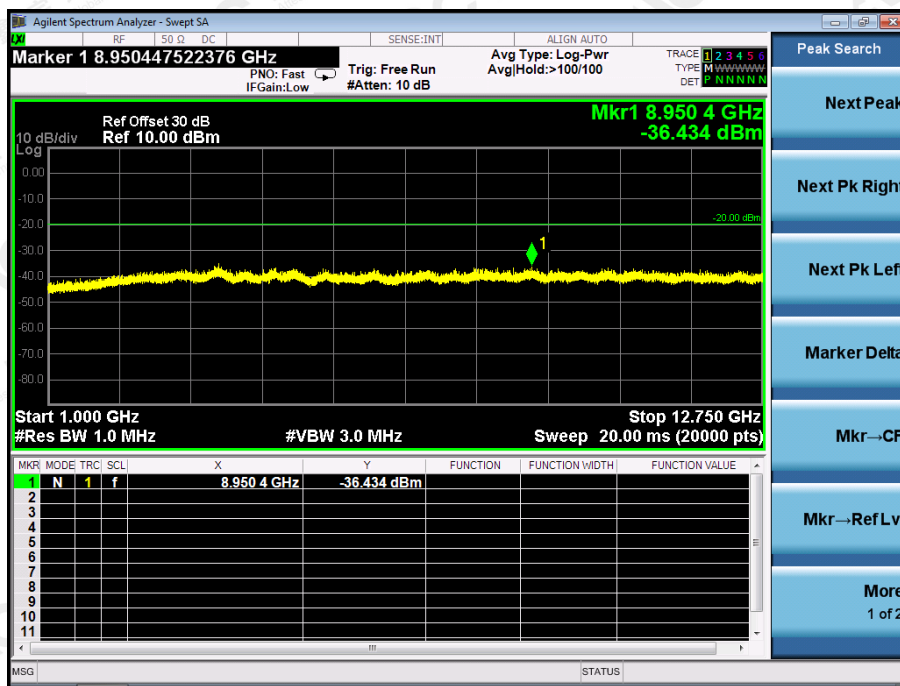
Conducted Spurious Emission (worst) @173.975 MHz With 12.5 KHz Channel Separation-1W

30MHz-1GHz



Conduct Spurious Emission (worst) @ 173.975MHz With 12.5 KHz Channel Separation-1W

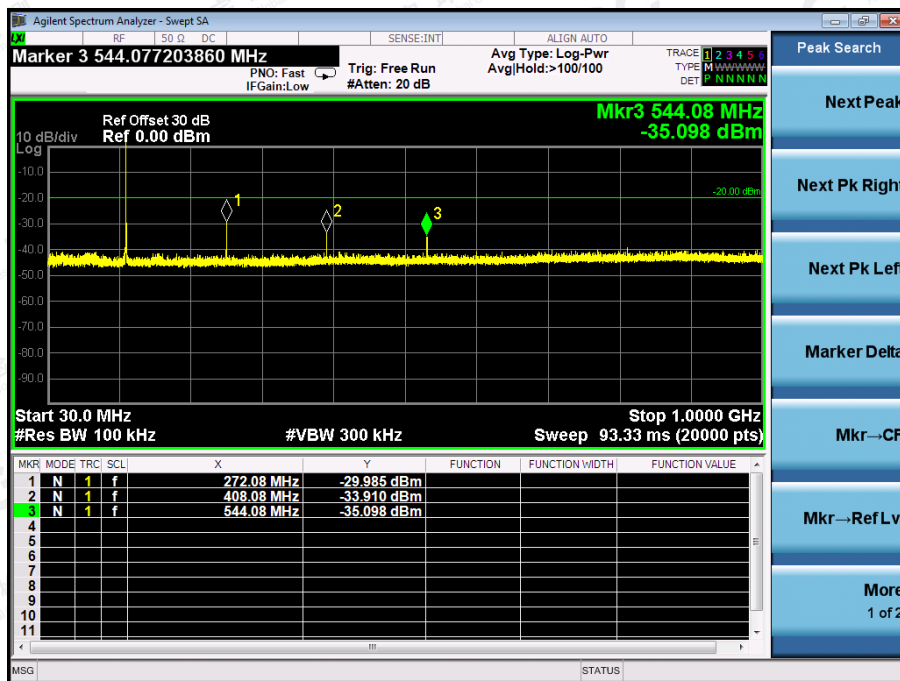
1GHz-12.75GHz



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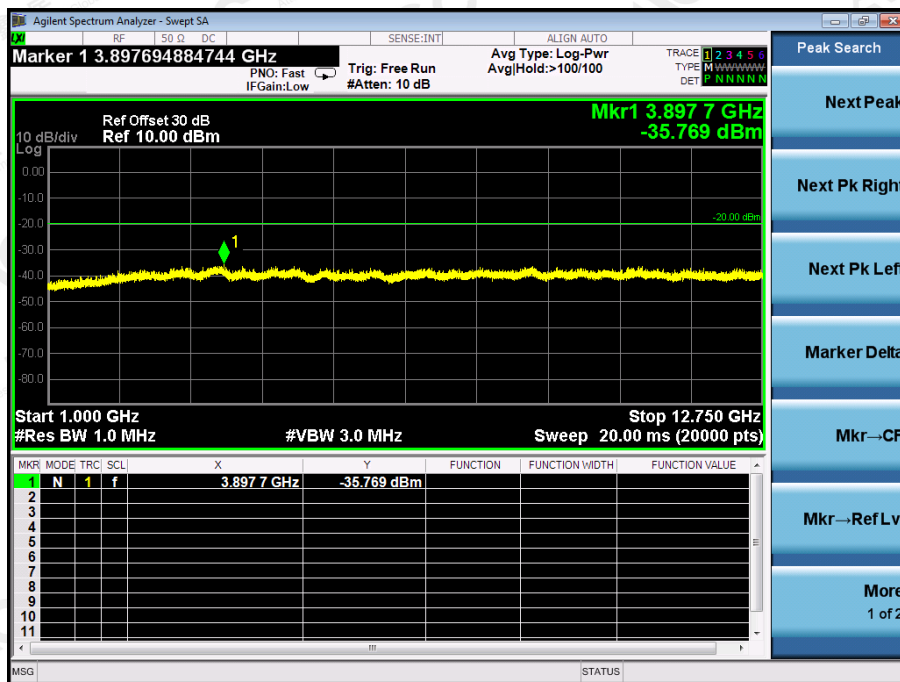
Conducted Spurious Emission (worst) @136.025MHz With 12.5 KHz Channel Separation-5W

30MHz-1GHz



Conduct Spurious Emission (worst) @ 136.025MHz With 12.5 KHz Channel Separation-5W

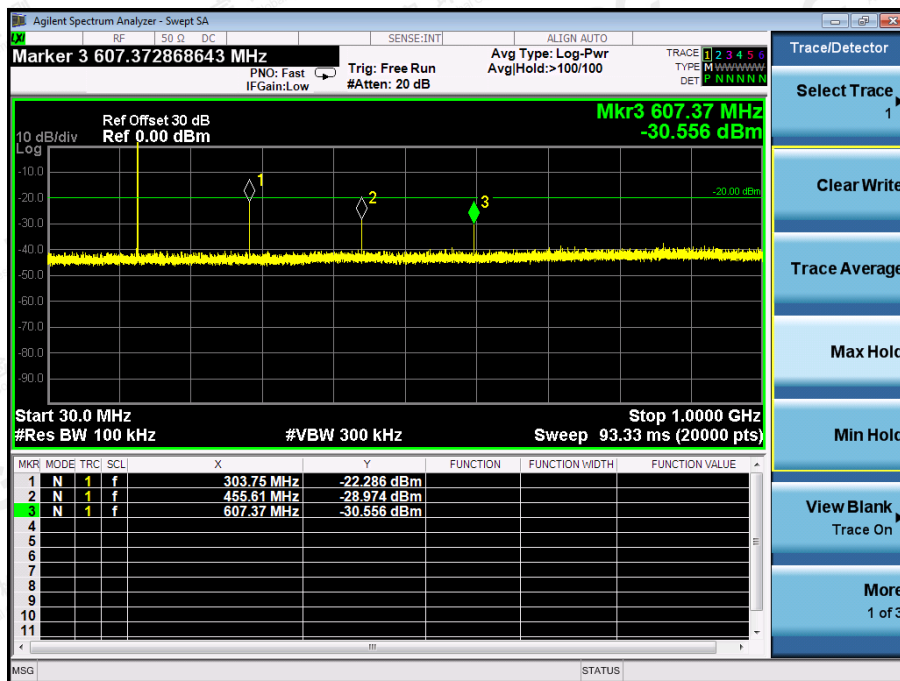
1GHz-12.75GHz



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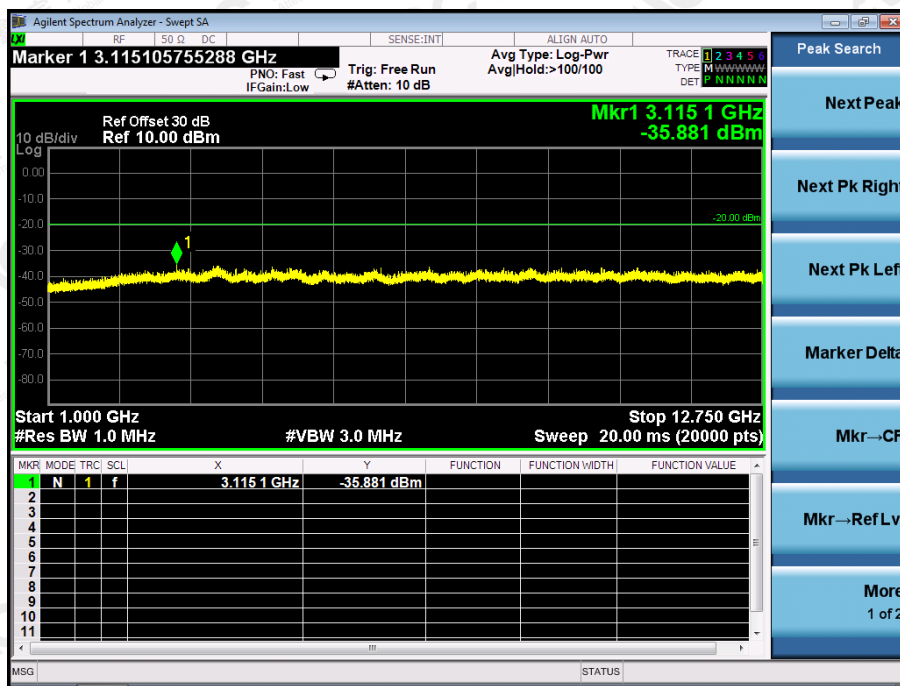
Conducted Spurious Emission (worst) @151.850 MHz With 12.5 KHz Channel Separation-5W

30MHz-1GHz



Conduct Spurious Emission (worst) @ 151.850MHz With 12.5 KHz Channel Separation-5W

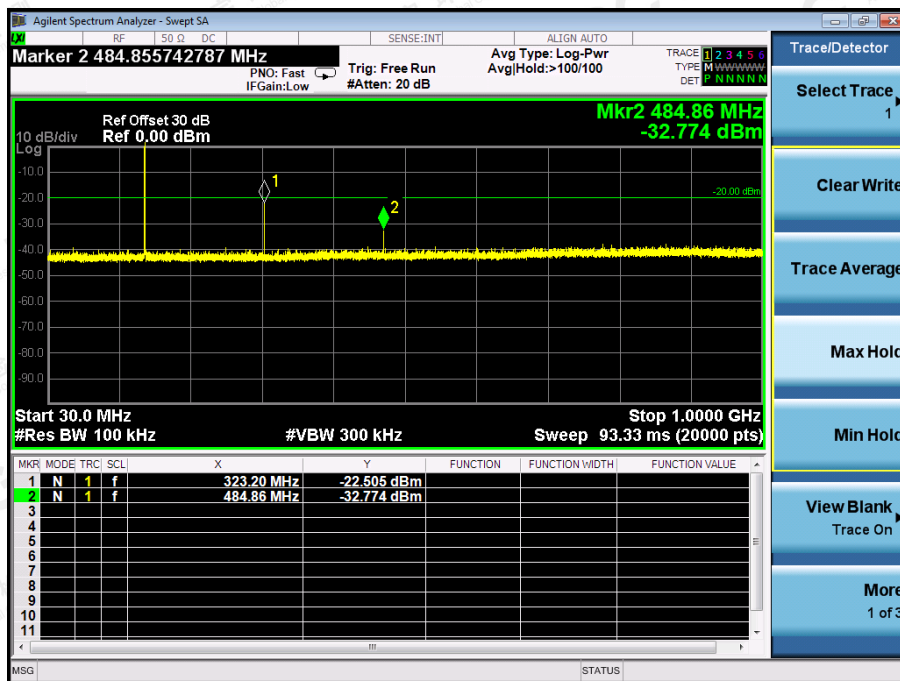
1GHz-12.75GHz



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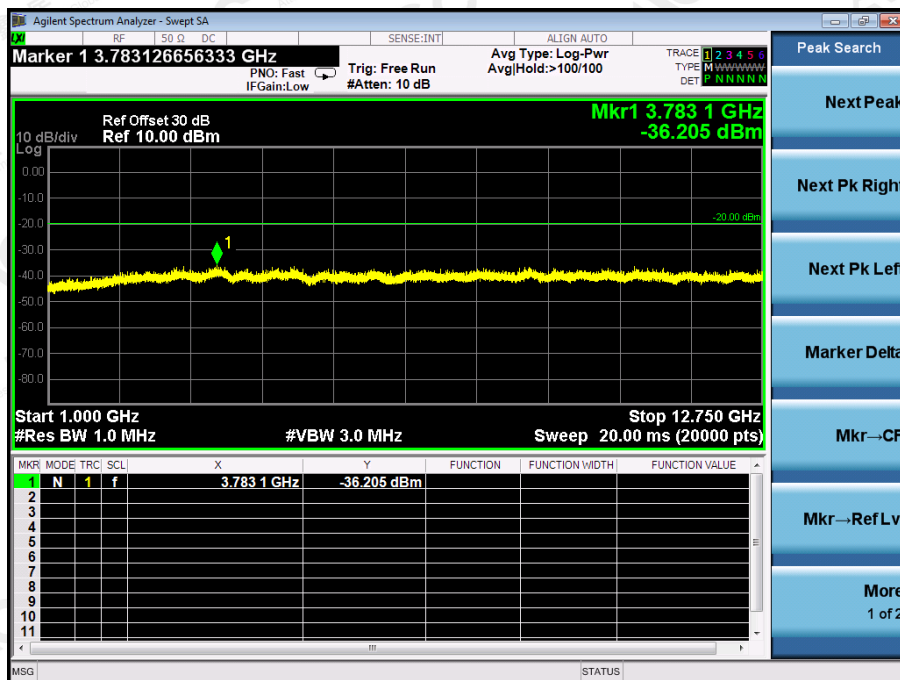
Conducted Spurious Emission (worst) @173.975 MHz With 12.5 KHz Channel Separation-5W

30MHz-1GHz



Conduct Spurious Emission (worst) @ 173.975MHz With 12.5 KHz Channel Separation-5W

1GHz-12.75GHz



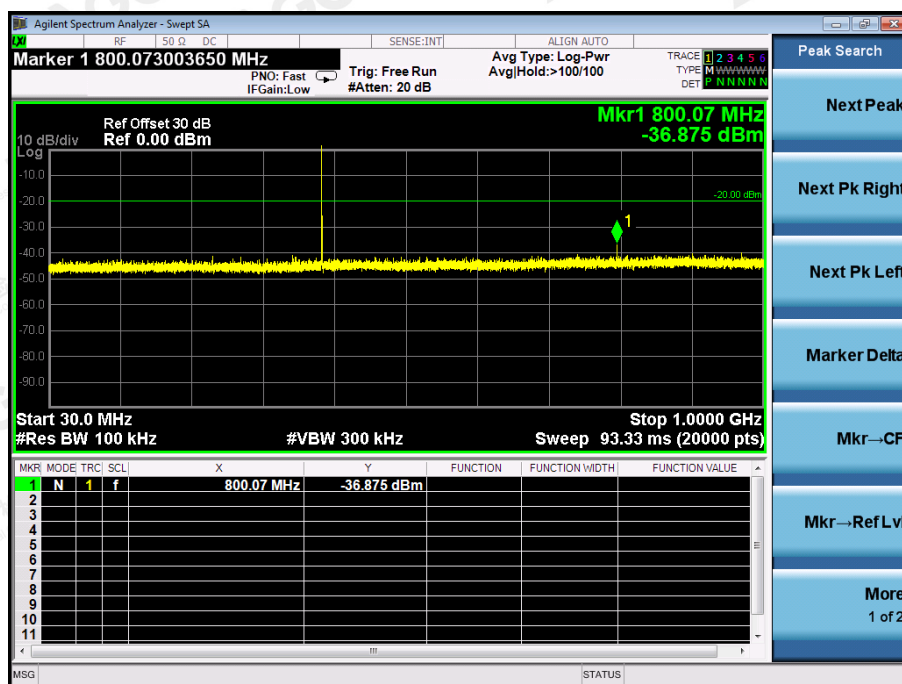
Note: only result the worst case in this part.

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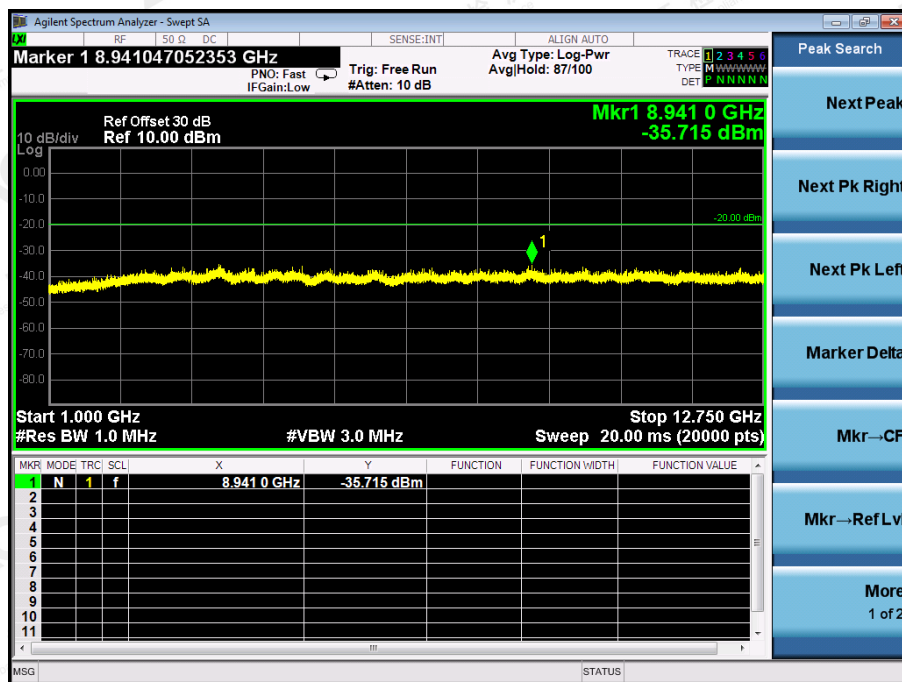
UHF:

Analog:

Conducted Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-1W
30MHz-1GHz



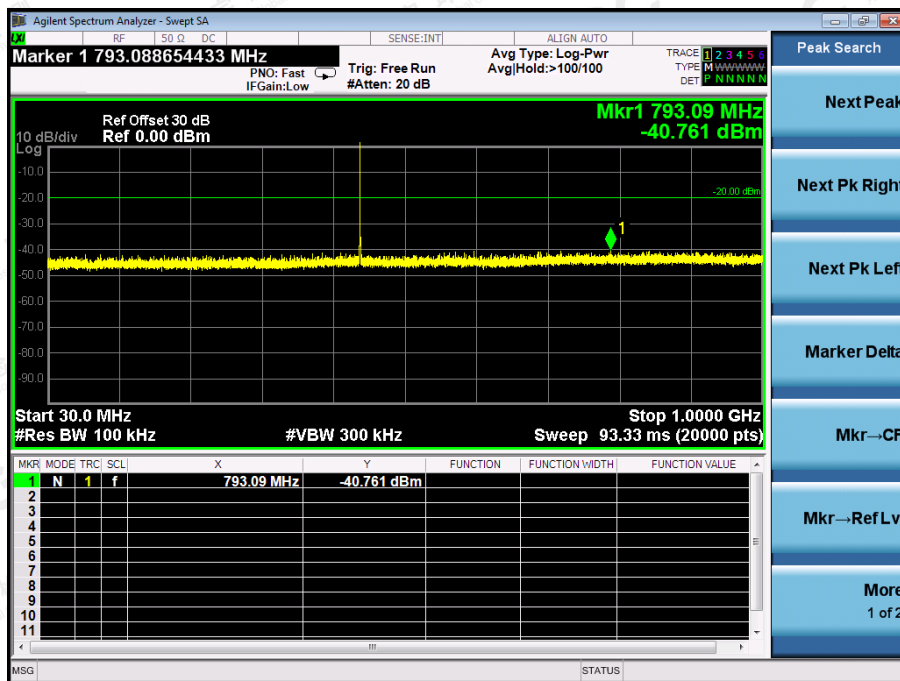
Conduct Spurious Emission (worst) @ 400.025MHz With 12.5 KHz Channel Separation-1W
1GHz-12.75GHz



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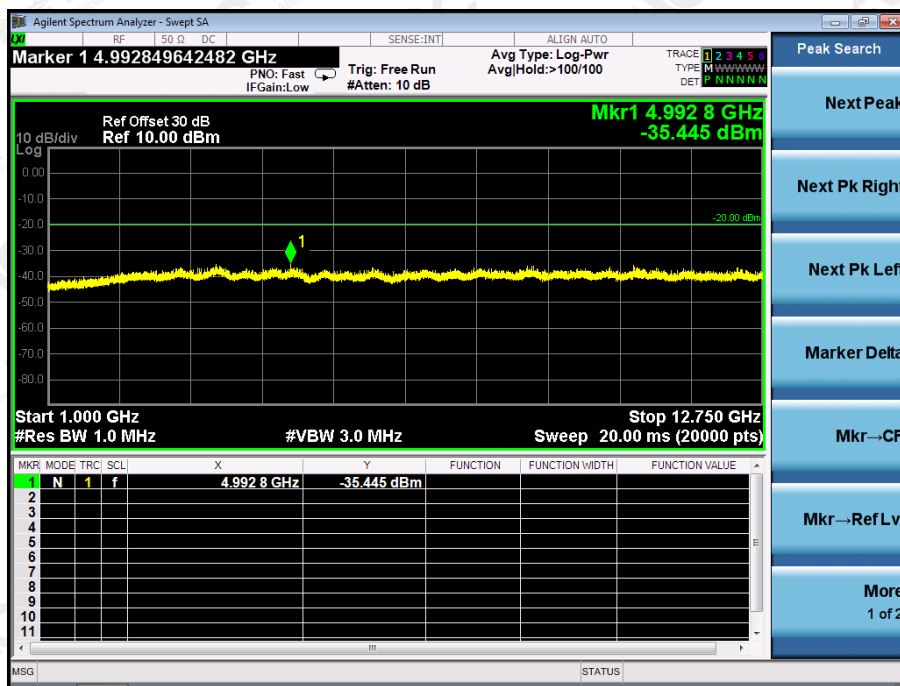
Conducted Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-1W

30MHz-1GHz



Conduct Spurious Emission (worst) @ 453.225MHz With 12.5 KHz Channel Separation-1W

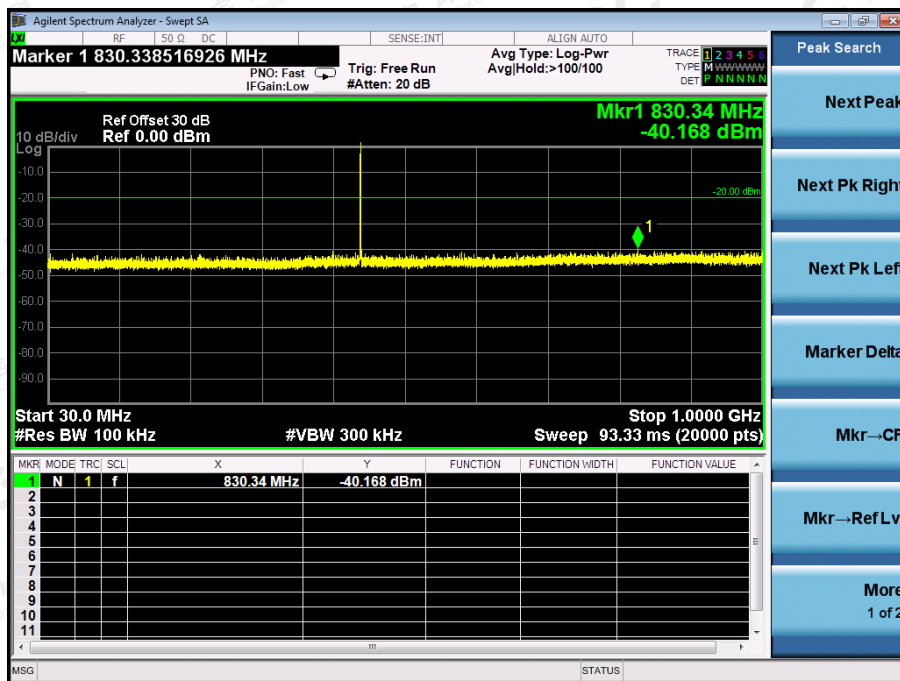
1GHz-12.75GHz



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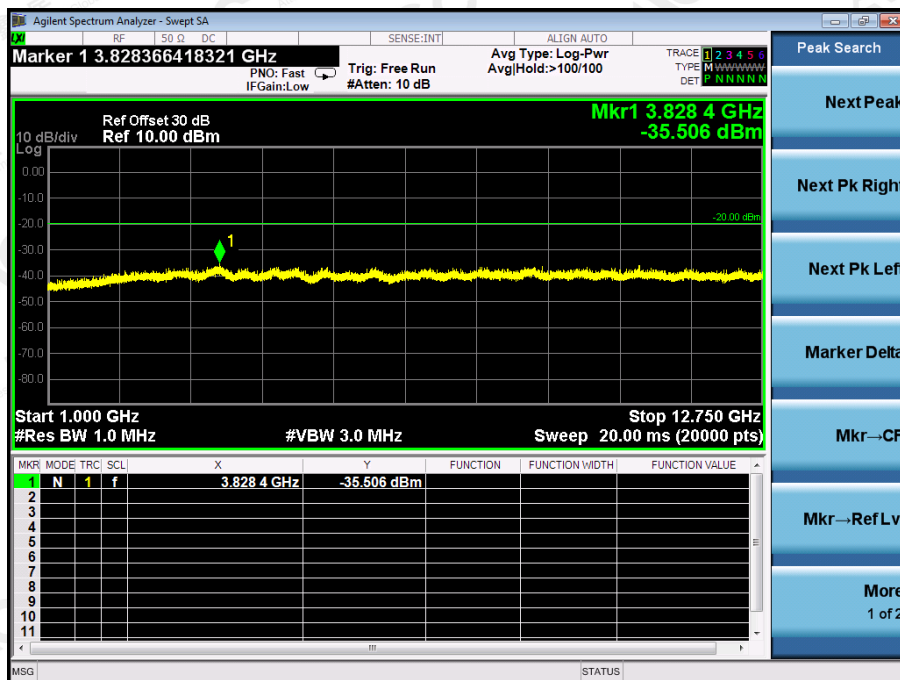
Conducted Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-1W

30MHz-1GHz



Conduct Spurious Emission (worst) @ 479.975MHz With 12.5 KHz Channel Separation-1W

1GHz-12.75GHz



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