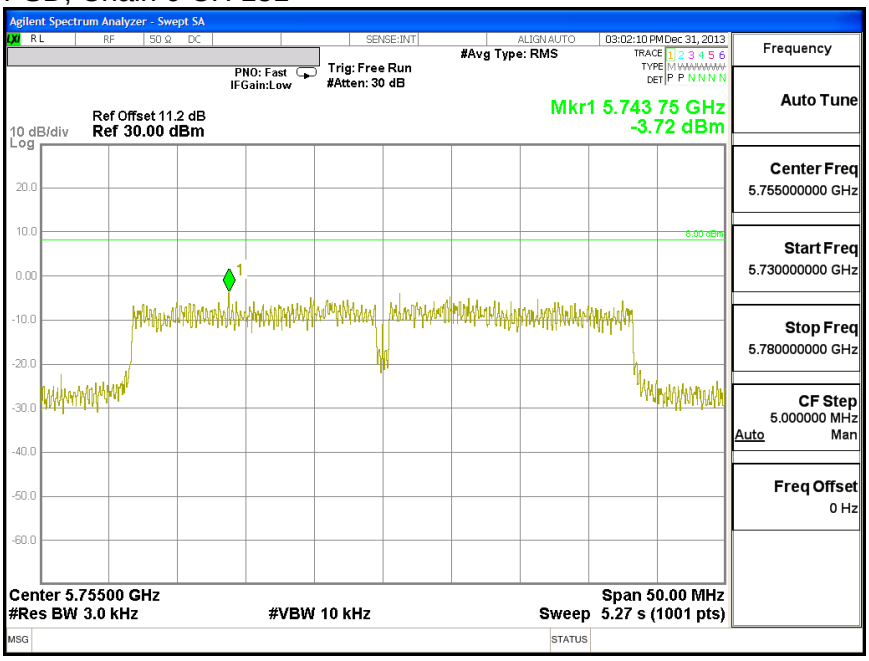
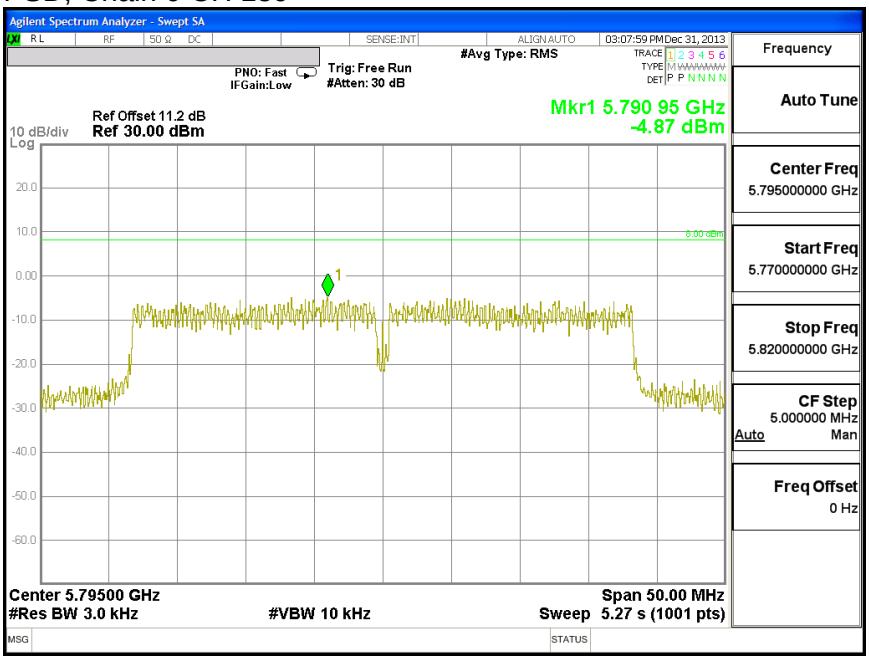
PSD, Chain 0

PSD, Chain 0 CH 151



PSD, Chain 0 CH 159



7.5.6. OUT-OF-BAND EMISSIONS

LIMITS

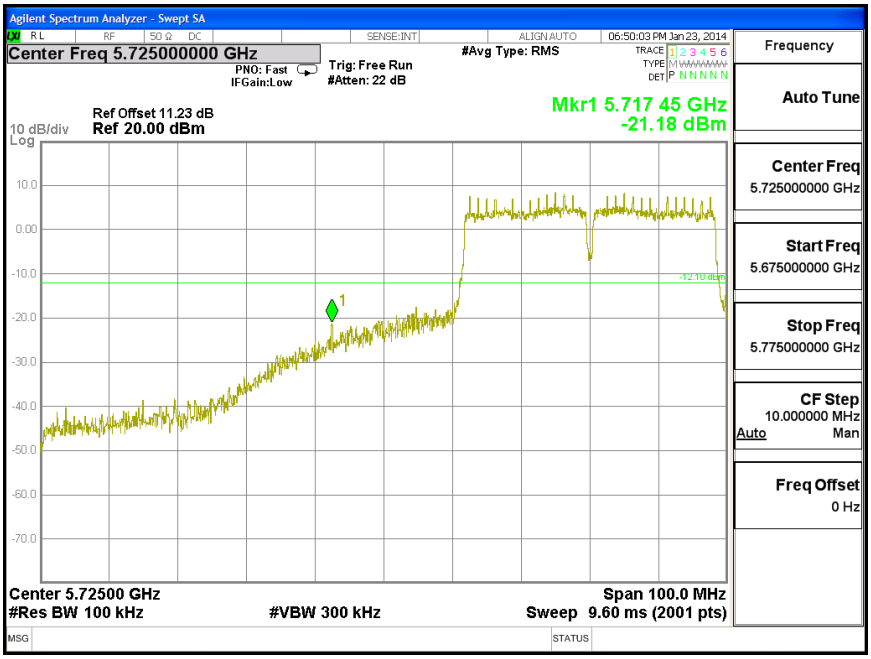
FCC §15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

RESULTS

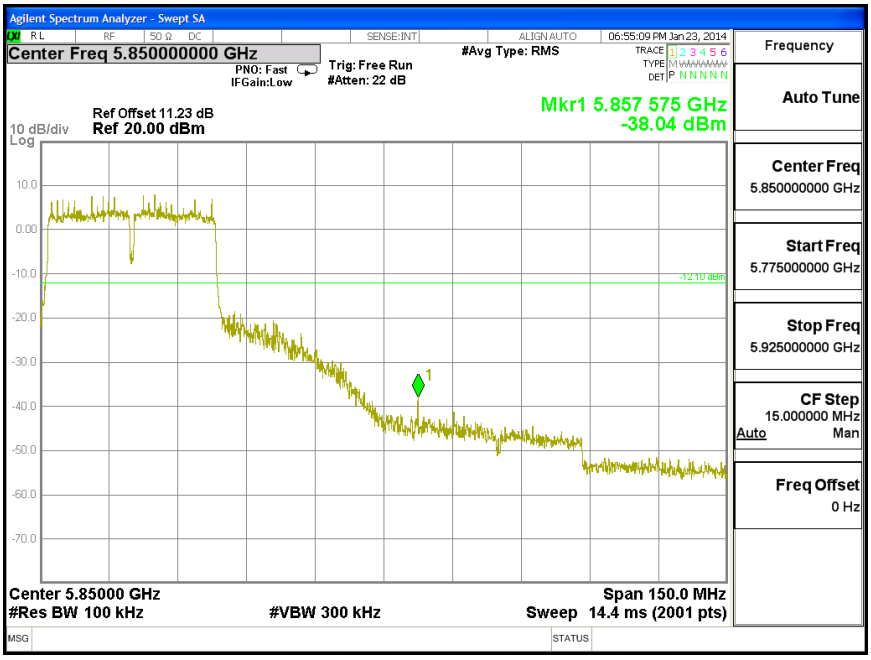
LOW CHANNEL BANDEDGE

AUTHORIZED BAND EDGE CH 151



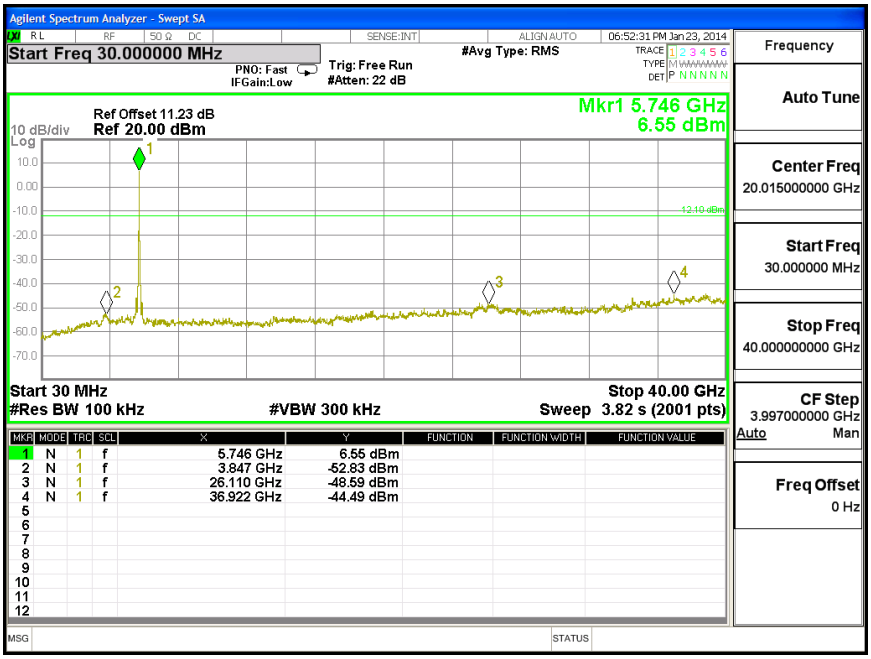
HIGH CHANNEL BANDEDGE

AUTHORIZED BAND EDGE CH 159

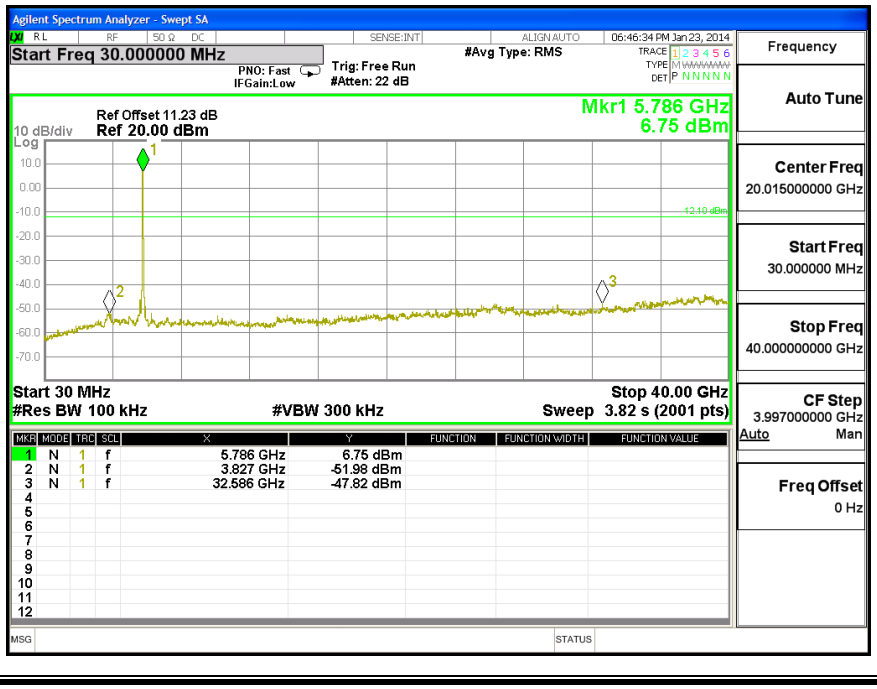


OUT-OF-BAND EMISSIONS

OUT OF BAND CH 151



OUT OF BAND CH 159



7.6. 802.11n HT40 3TX CDD MODE IN THE 5.8 GHz BAND

7.6.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

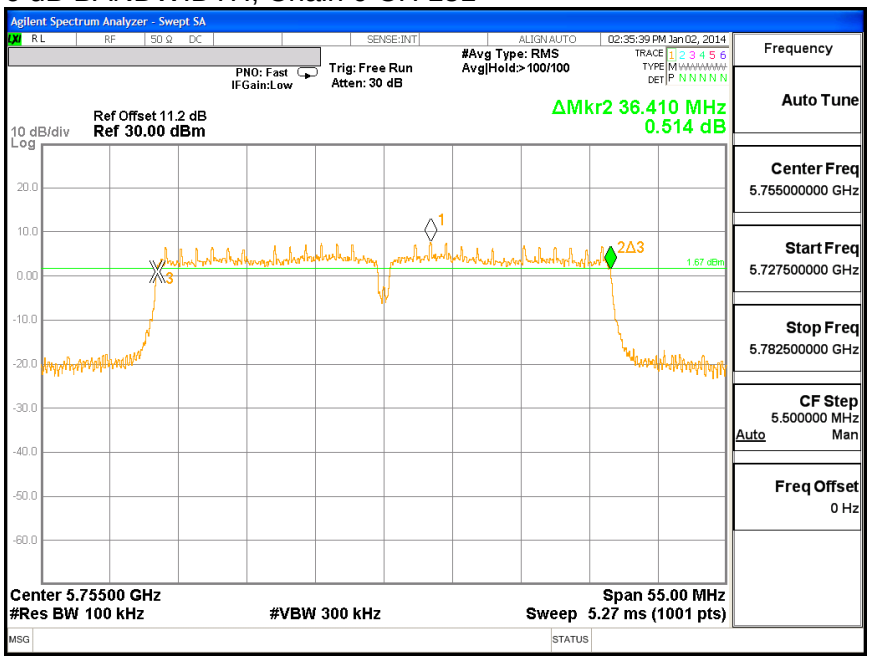
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

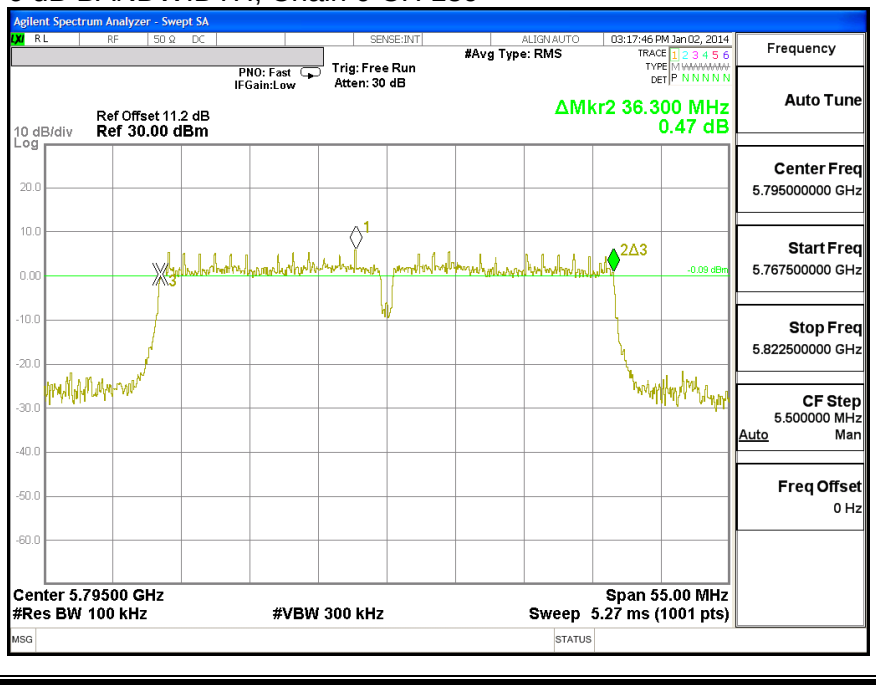
Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	6 dB BW Chain 2 (MHz)	Minimum Limit (MHz)
151	5755	36.410	36.410	36.355	0.5
159	5795	36.300	36.355	36.355	0.5

6 dB BANDWIDTH, Chain 0

6 dB BANDWIDTH, Chain 0 CH 151

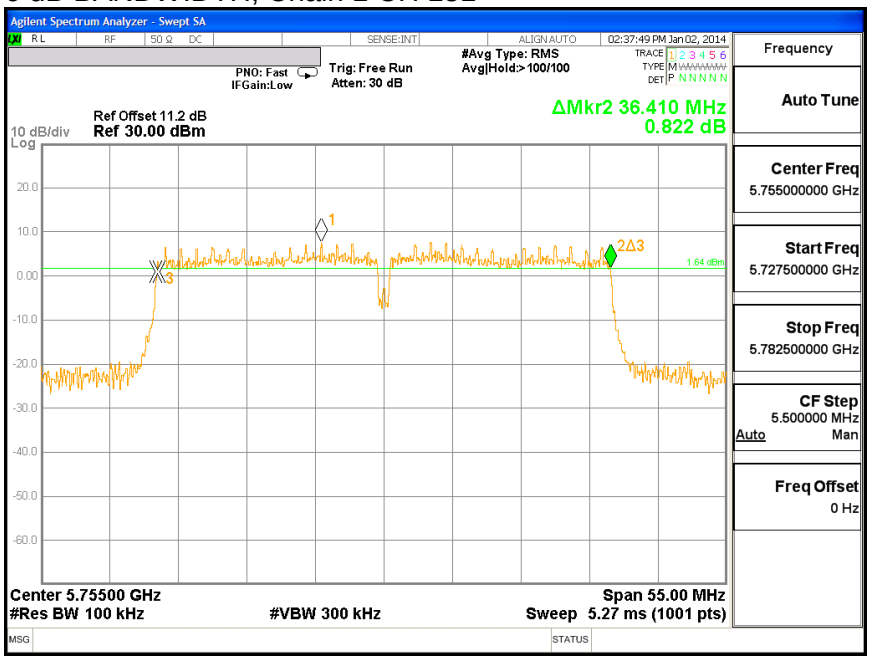


6 dB BANDWIDTH, Chain 0 CH 159

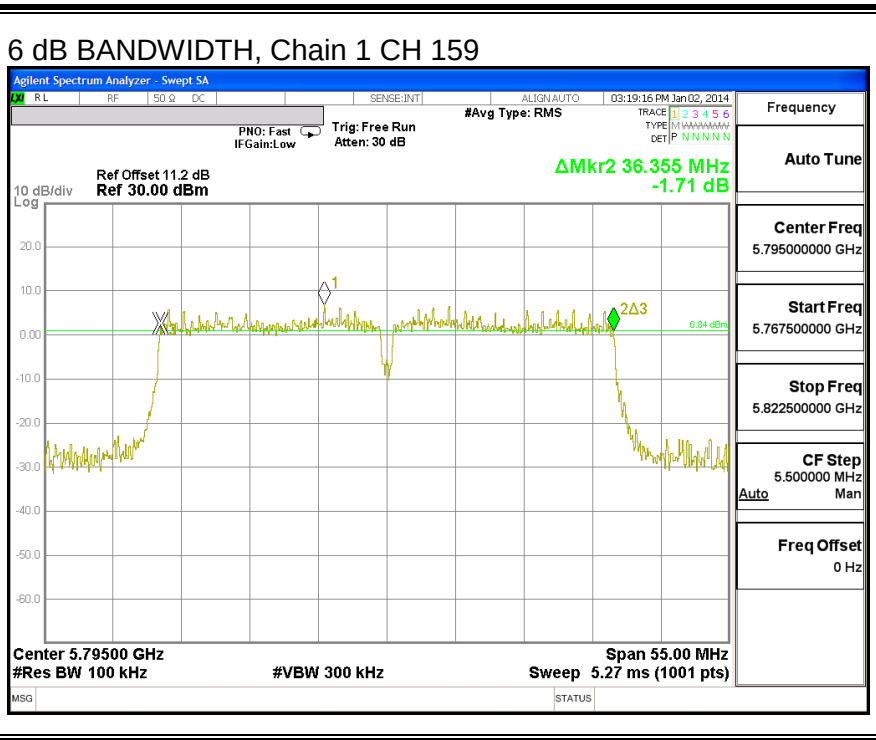


6 dB BANDWIDTH, Chain 1

6 dB BANDWIDTH, Chain 1 CH 151

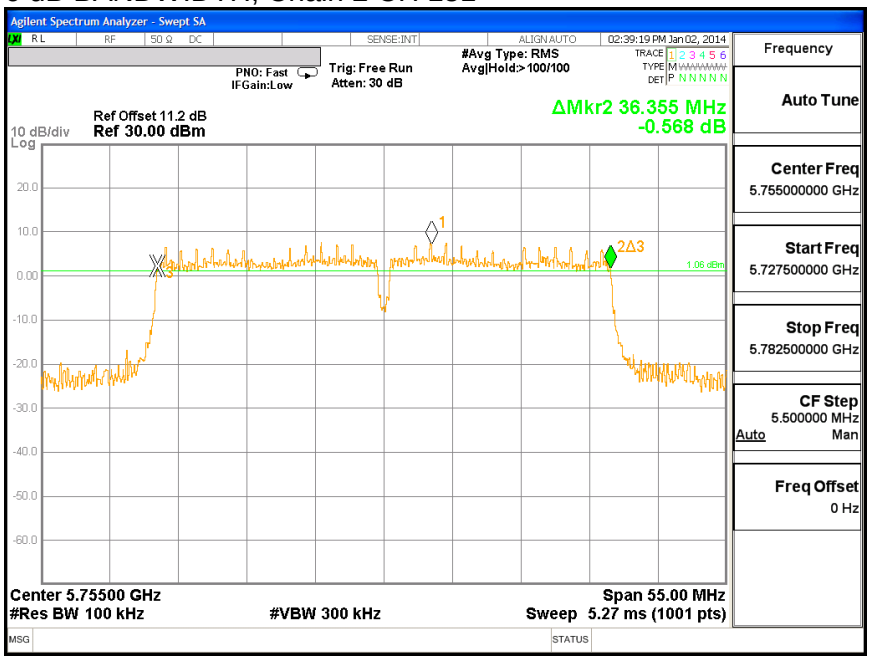


6 dB BANDWIDTH, Chain 1 CH 159

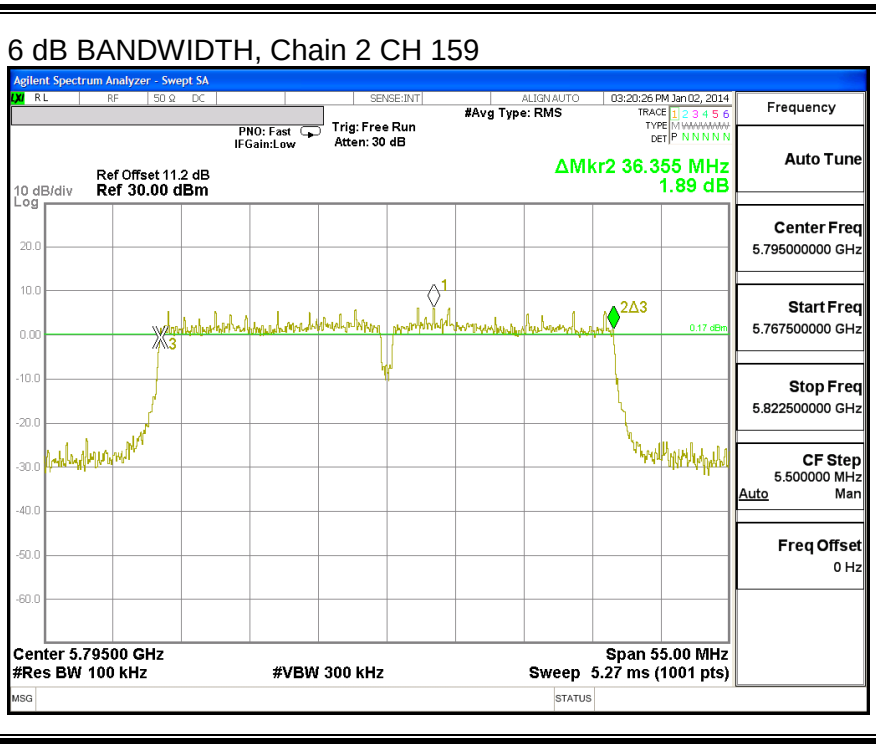


6 dB BANDWIDTH, Chain 2

6 dB BANDWIDTH, Chain 2 CH 151



6 dB BANDWIDTH, Chain 2 CH 159



7.6.2. 99% BANDWIDTH

LIMITS

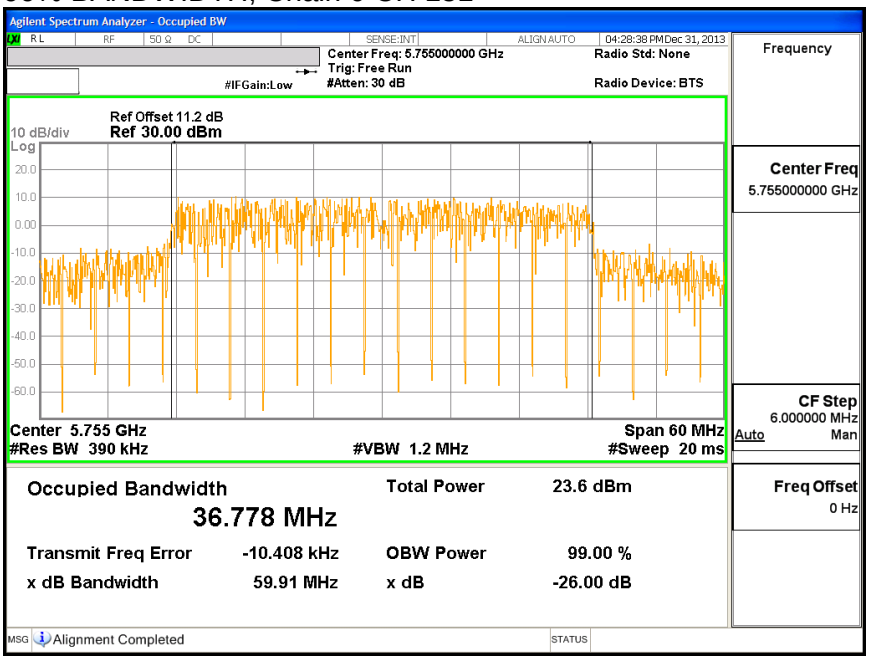
None; for reporting purposes only.

RESULTS

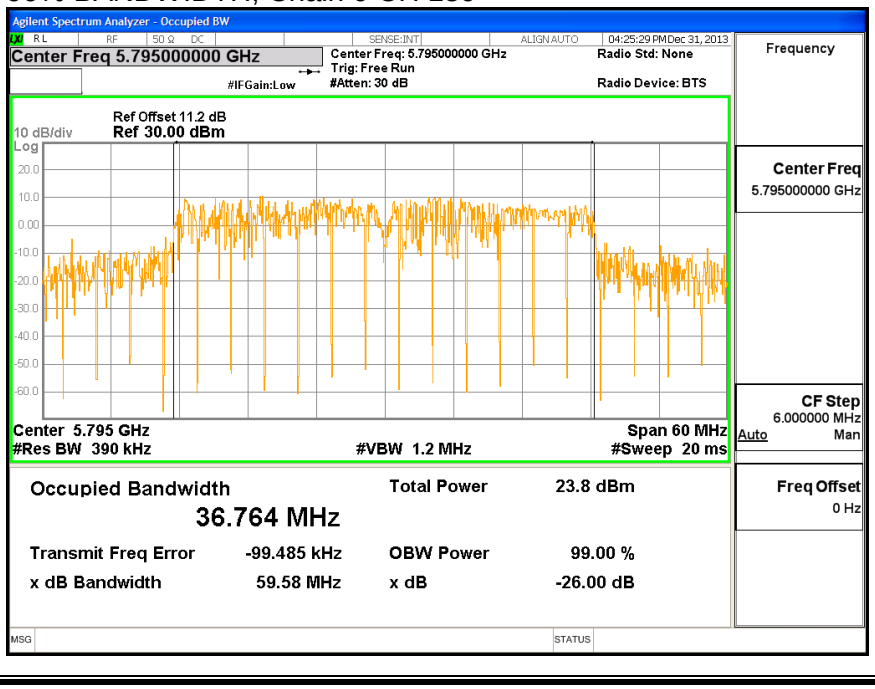
Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)	99% BW Chain 2 (MHz)
151	5755	36.7780	36.5540	36.9190
159	5795	36.7640	36.6020	36.5610

99% BANDWIDTH, Chain 0

99% BANDWIDTH, Chain 0 CH 151

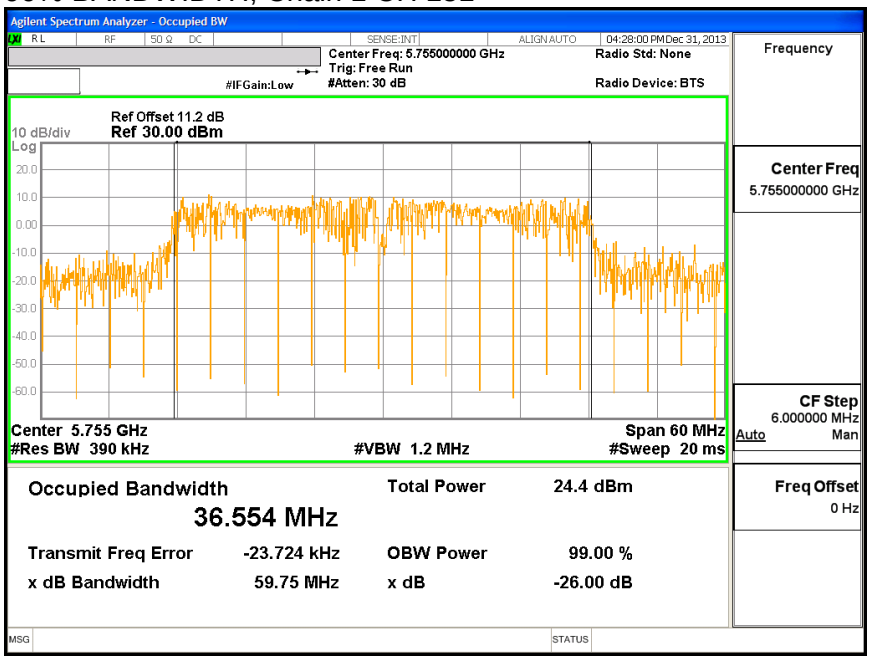


99% BANDWIDTH, Chain 0 CH 159

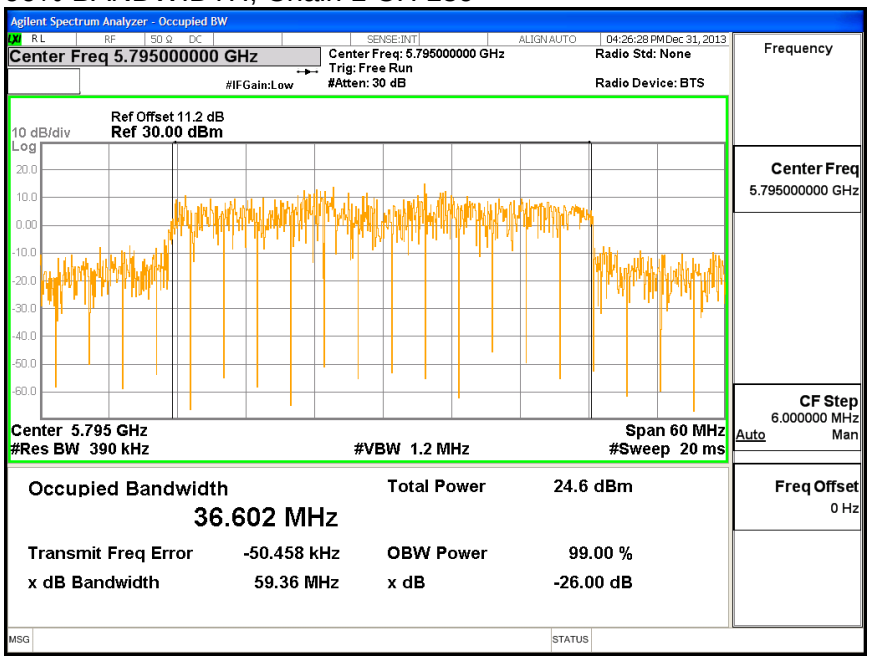


99% BANDWIDTH, Chain 1

99% BANDWIDTH, Chain 1 CH 151

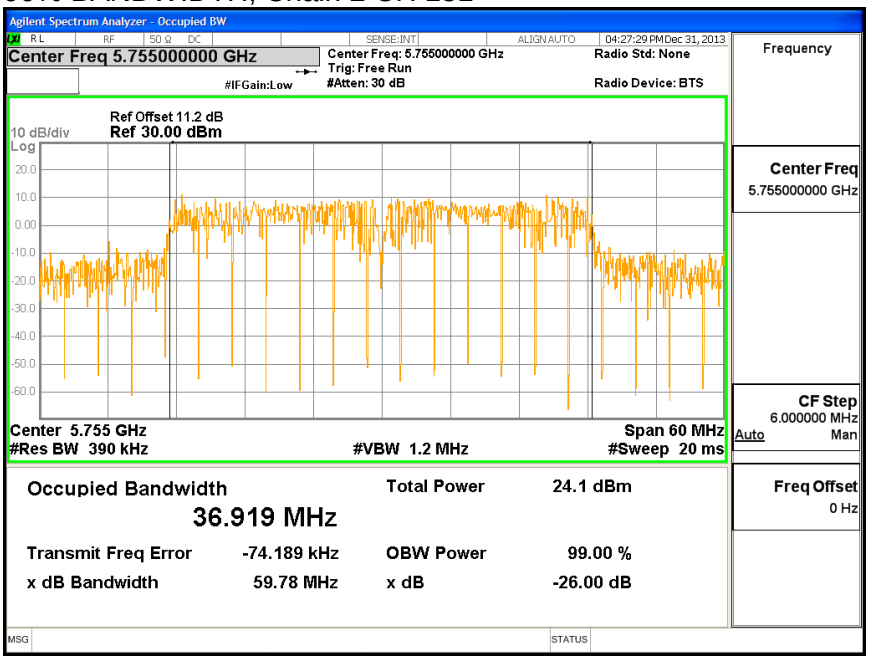


99% BANDWIDTH, Chain 1 CH 159

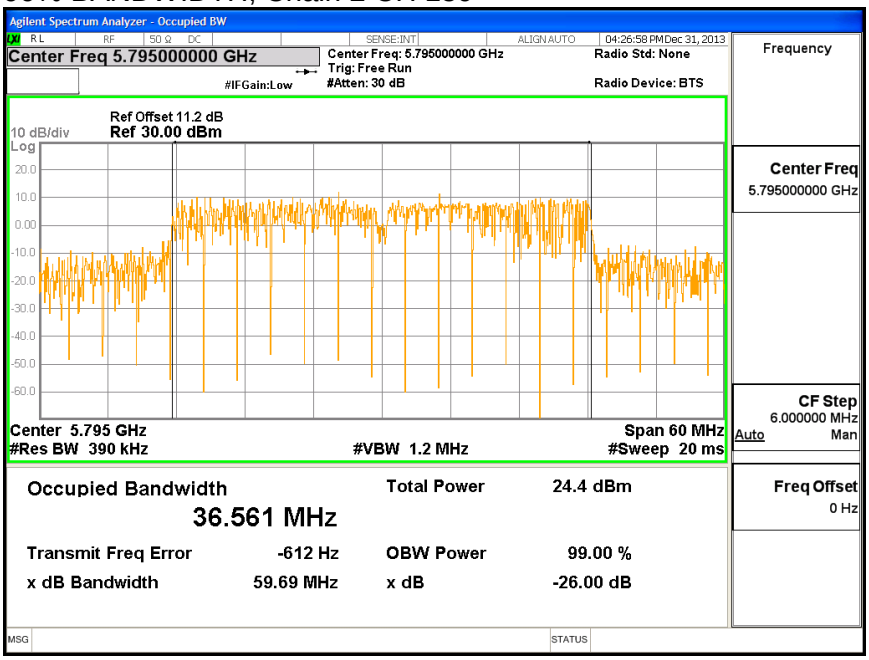


99% BANDWIDTH, Chain 2

99% BANDWIDTH, Chain 2 CH 151



99% BANDWIDTH, Chain 2 CH 159



7.6.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Chain 2 Power (dBm)	Total Power (dBm)
151	5755	20.44	20.72	20.55	25.34
159	5795	20.71	21.01	20.81	25.62

7.6.4. OUTPUT POWER

LIMITS

FCC §15.247

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are correlated and the antenna gain is the same for each chain. The directional gain is:

Antenna Gain (dBi)	10 * Log (3 chains) (dB)	Correlated Chains Directional Gain (dBi)
3.16	4.77	7.93

RESULTS

Limits

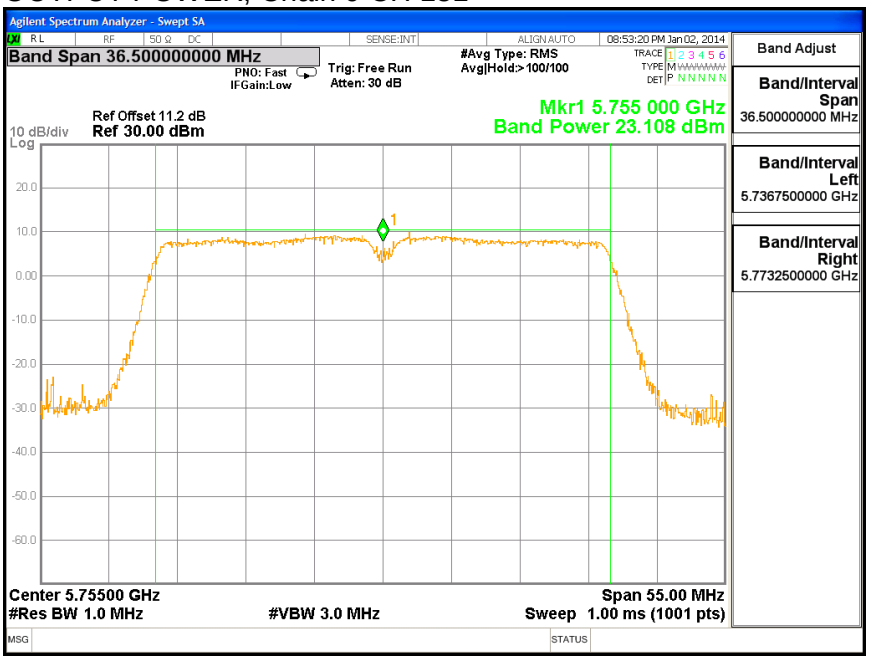
Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
151	5755	7.93	28.07	30	36	28.07
159	5795	7.93	28.07	30	36	28.07

Results

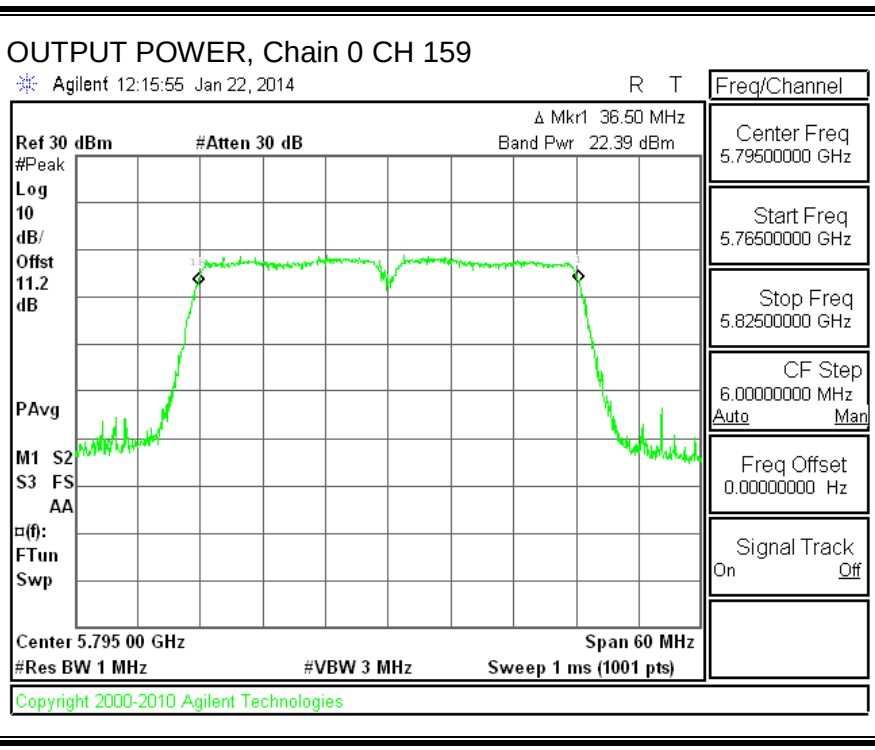
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
151	5755	23.11	23.27	22.81	27.84	28.07	-0.23
159	5795	22.39	22.62	22.46	27.26	28.07	-0.81

OUTPUT POWER, Chain 0

OUTPUT POWER, Chain 0 CH 151

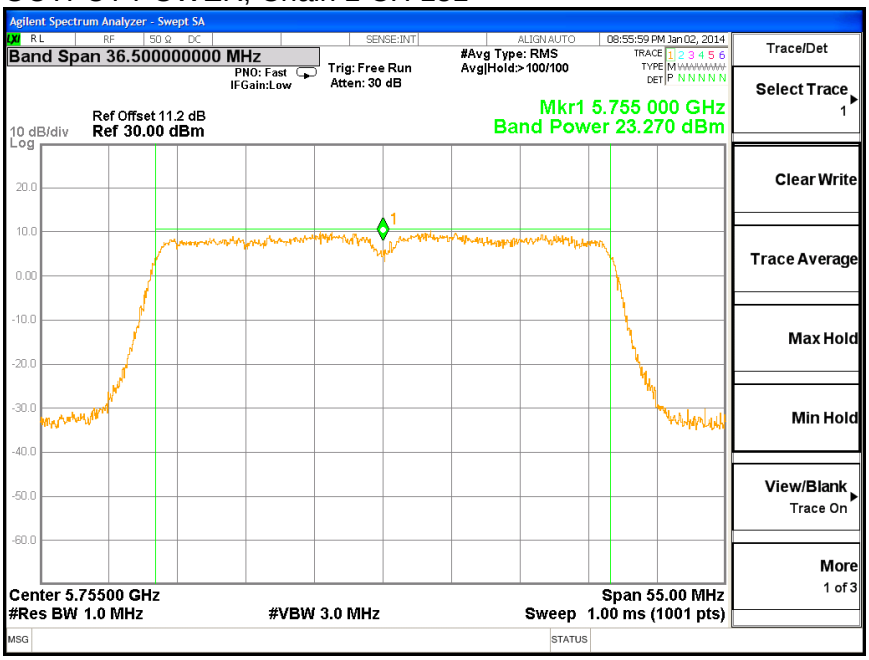


OUTPUT POWER, Chain 0 CH 159

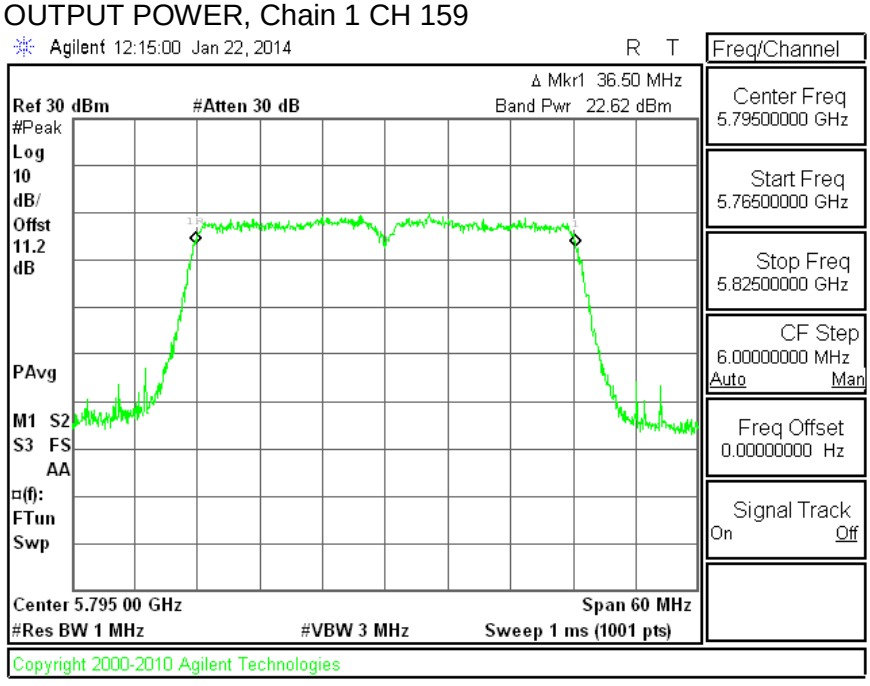


OUTPUT POWER, Chain 1

OUTPUT POWER, Chain 1 CH 151

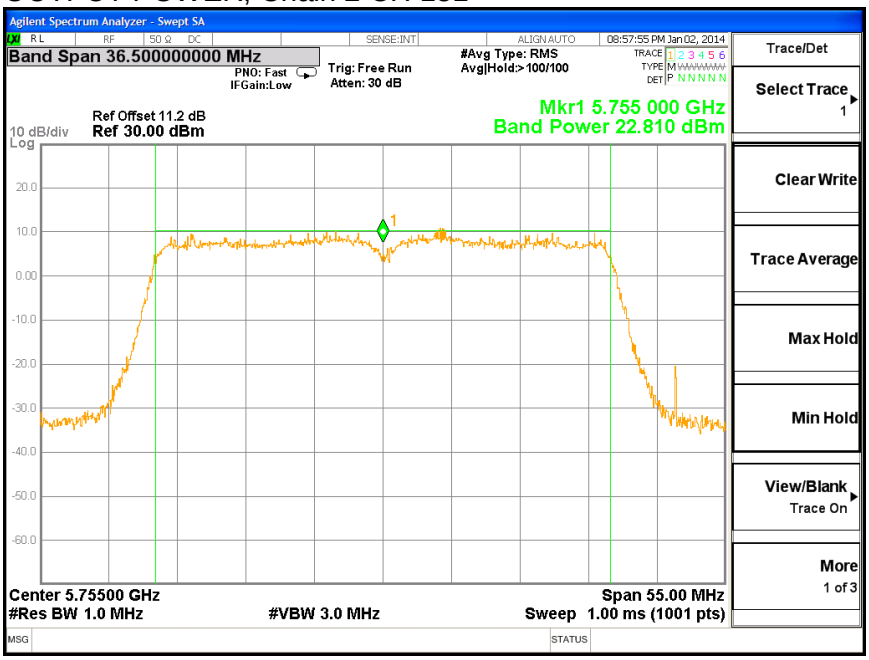


OUTPUT POWER, Chain 1 CH 159

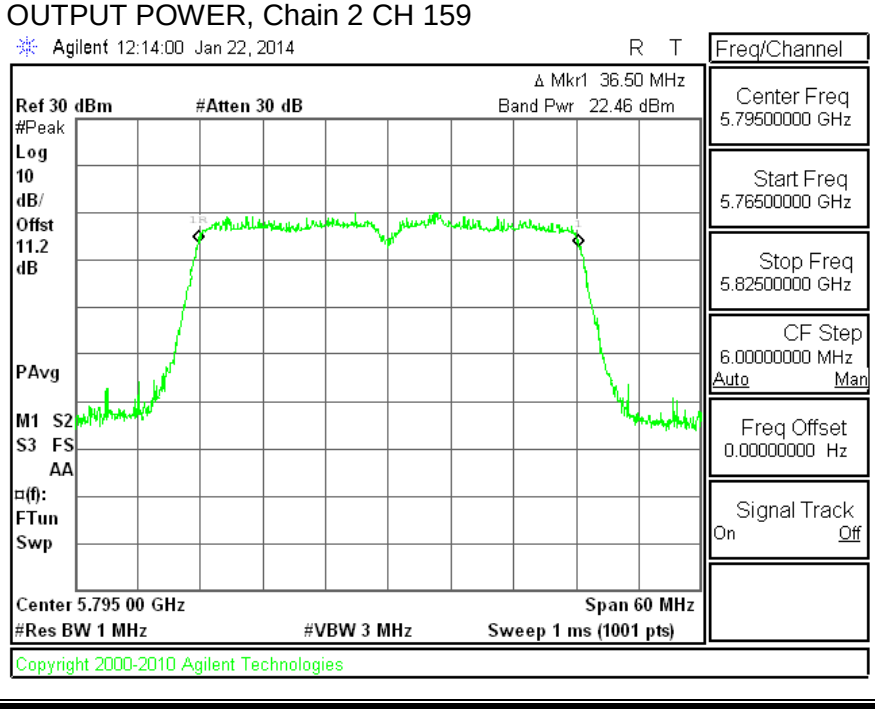


OUTPUT POWER, Chain 2

OUTPUT POWER, Chain 2 CH 151



OUTPUT POWER, Chain 2 CH 159



7.6.5. PSD

LIMITS

FCC §15.247

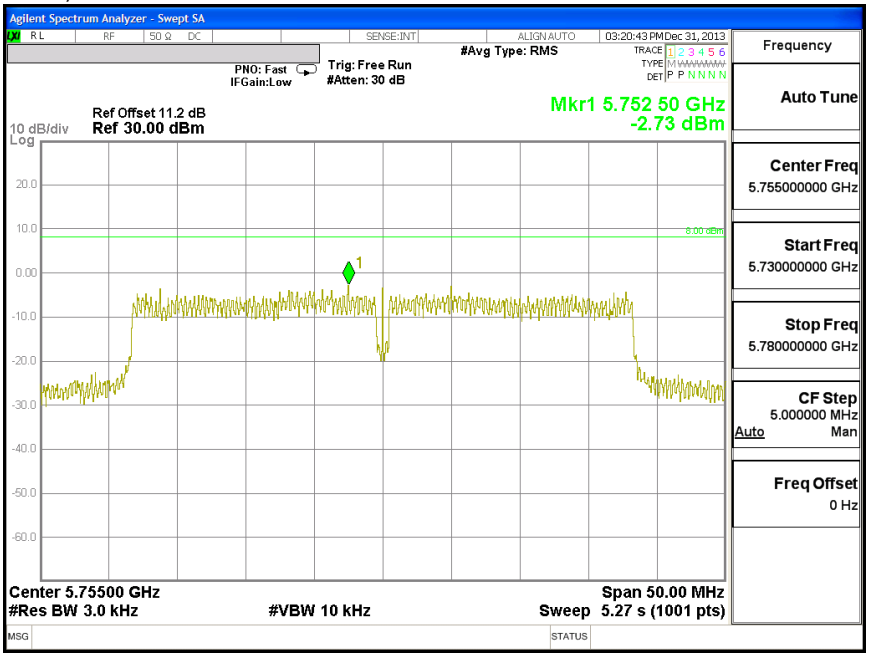
RESULTS

PSD Results

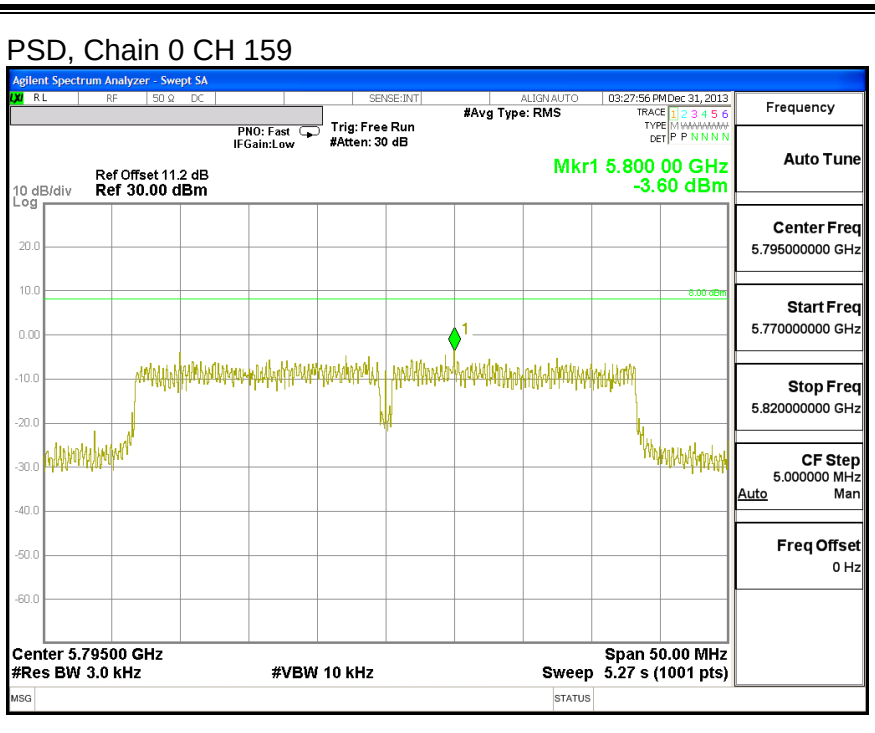
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Chain 2 Meas (dBm)	Total PSD (dBm)	Limit (dBm)	Margin (dB)
151	5755	-2.73	-4.79	-4.79	0.78	8.0	-7.2
159	5795	-3.60	-2.87	-3.64	1.42	8.0	-6.6

PSD, Chain 0

PSD, Chain 0 CH 151

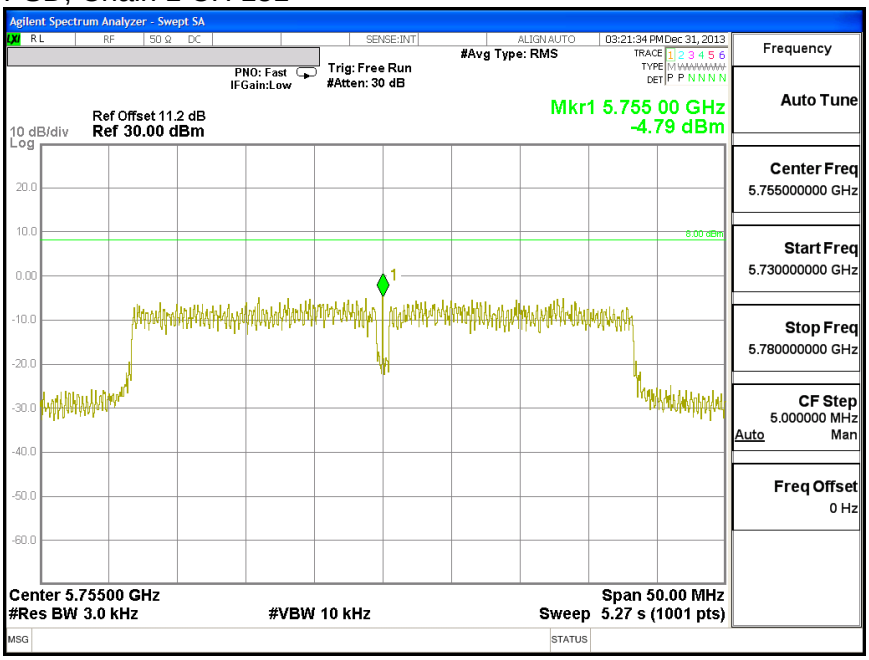


PSD, Chain 0 CH 159

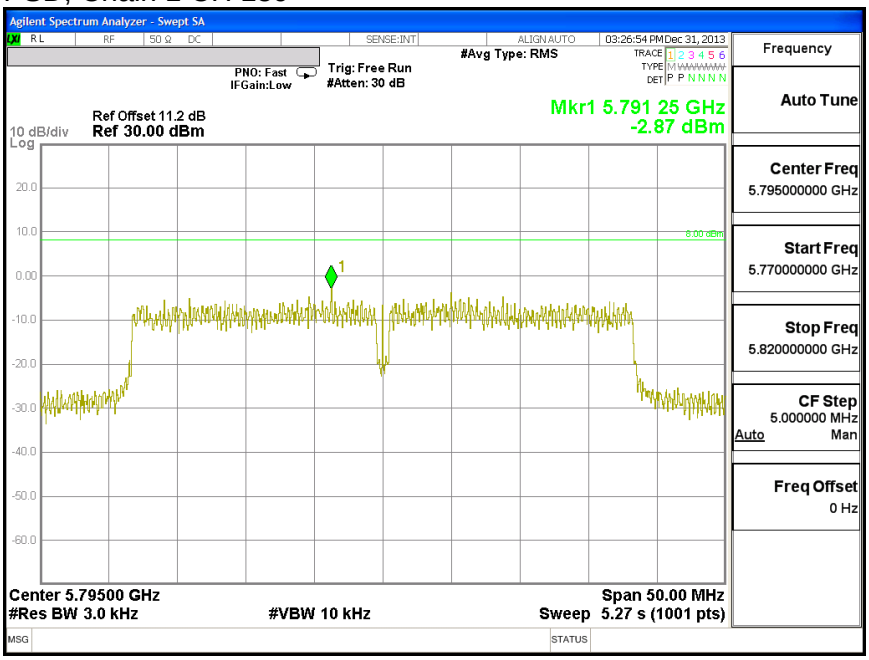


PSD, Chain 1

PSD, Chain 1 CH 151

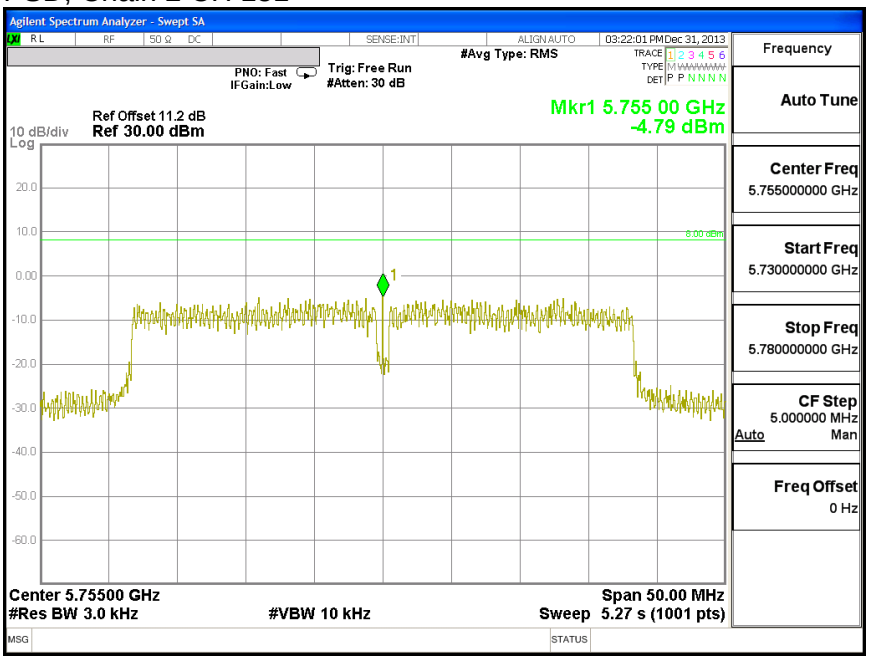


PSD, Chain 1 CH 159

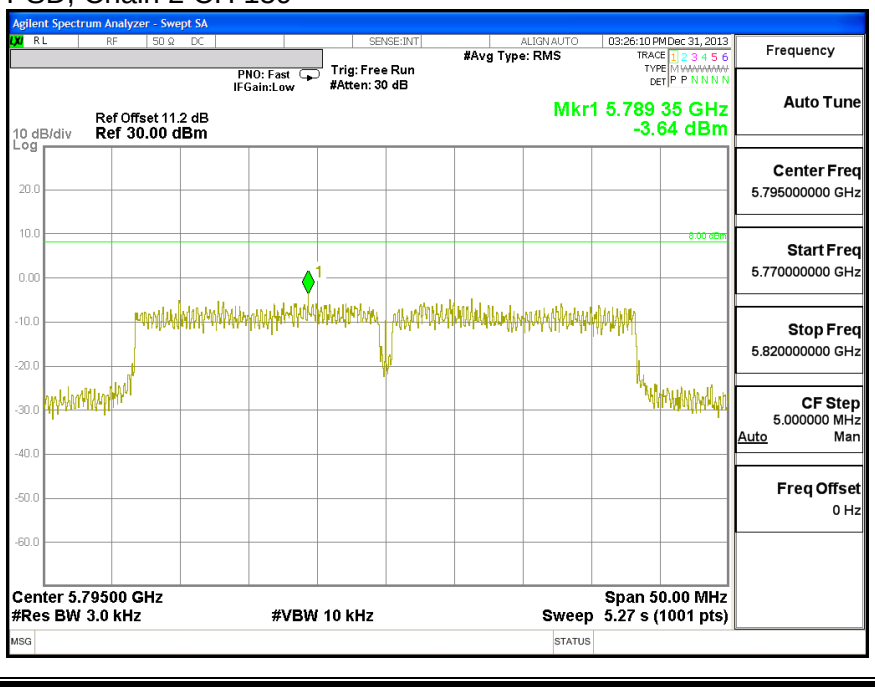


PSD, Chain 2

PSD, Chain 2 CH 151



PSD, Chain 2 CH 159



7.6.6. OUT-OF-BAND EMISSIONS

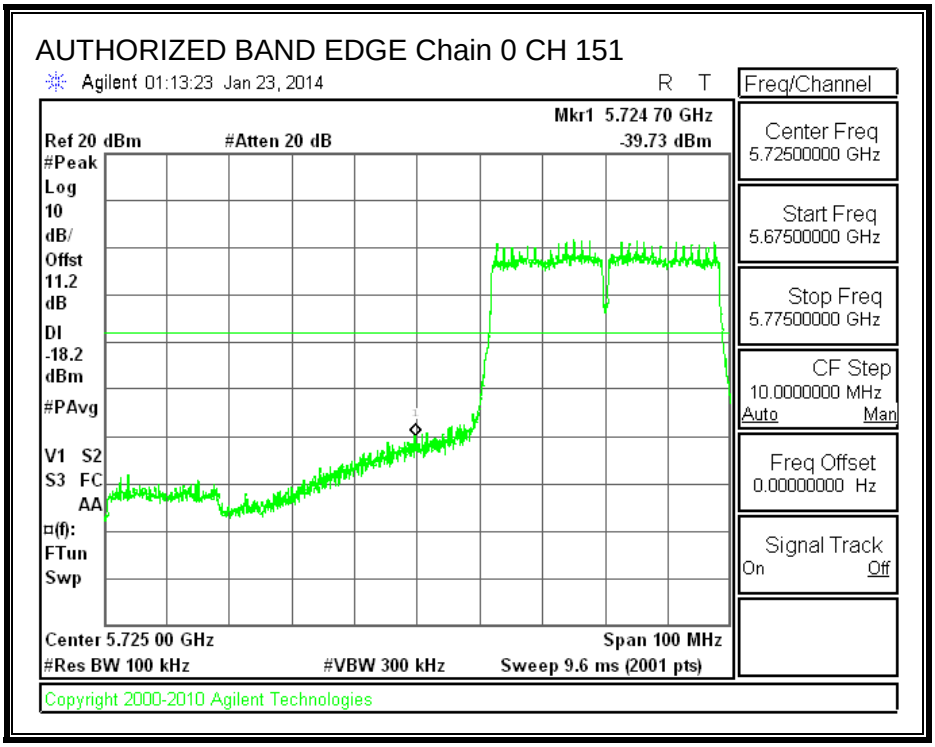
LIMITS

FCC §15.247 (d)

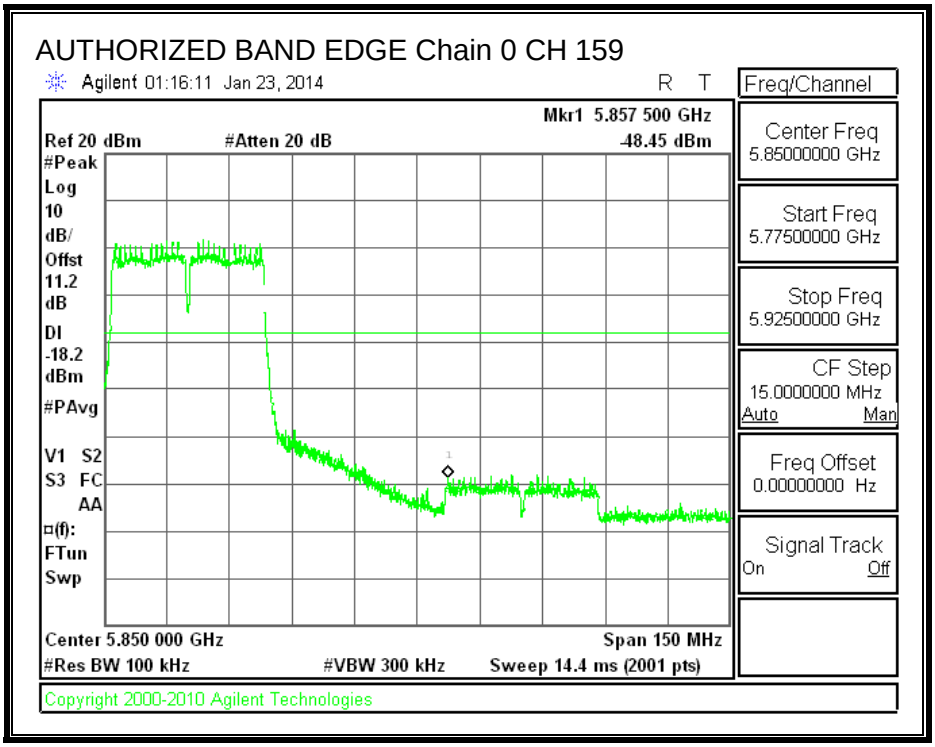
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

RESULTS

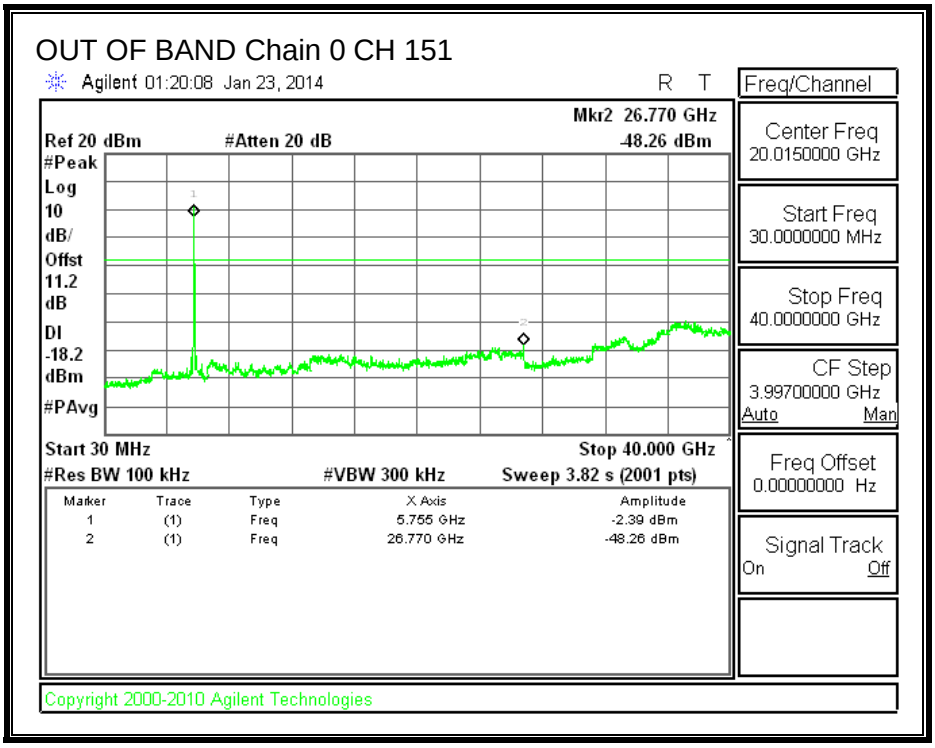
LOW CHANNEL BANDEDGE, Chain 0

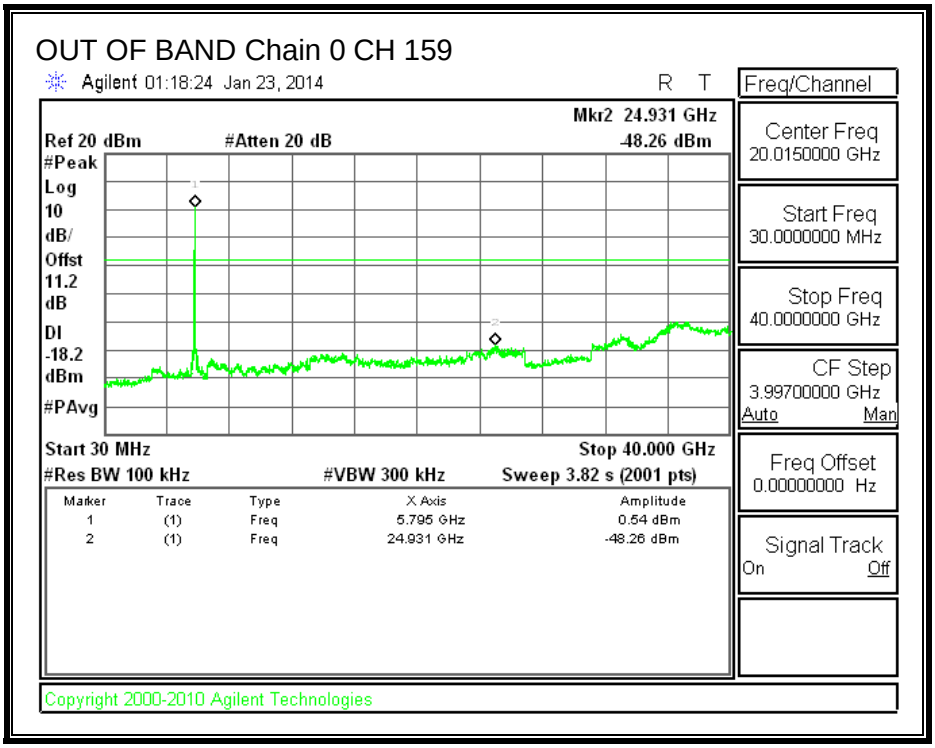


HIGH CHANNEL BANDEDGE, Chain 0

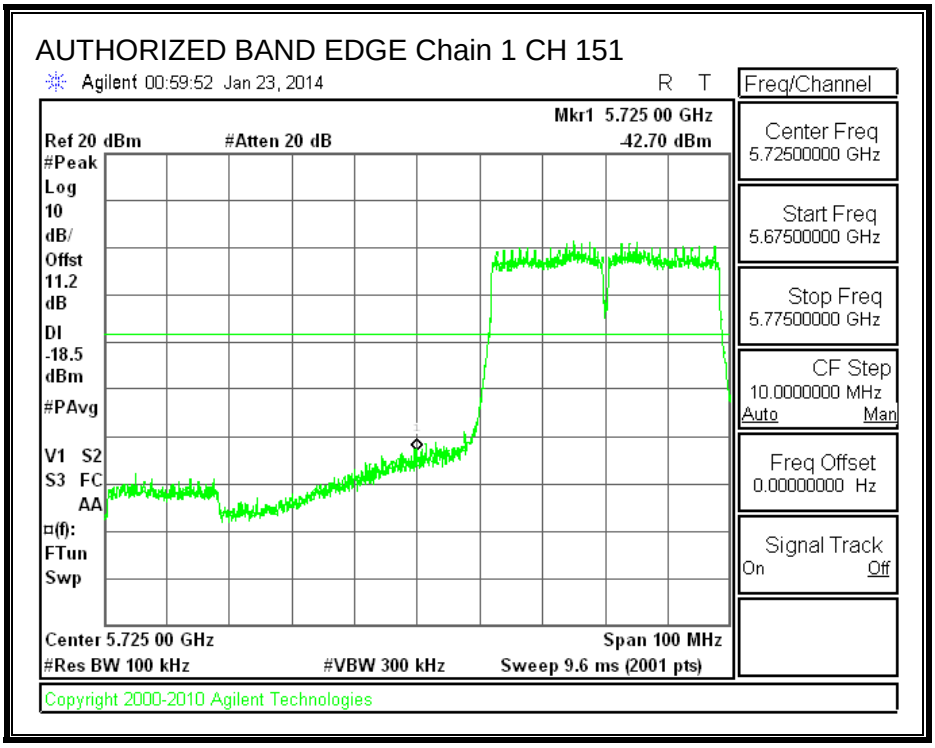


OUT-OF-BAND EMISSIONS, Chain 0

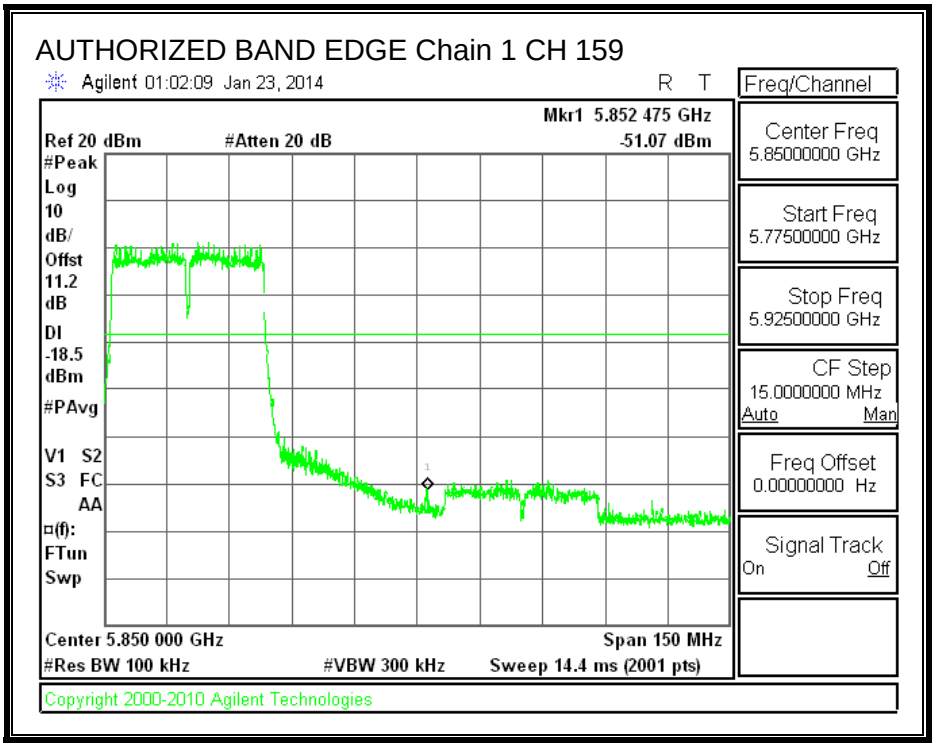




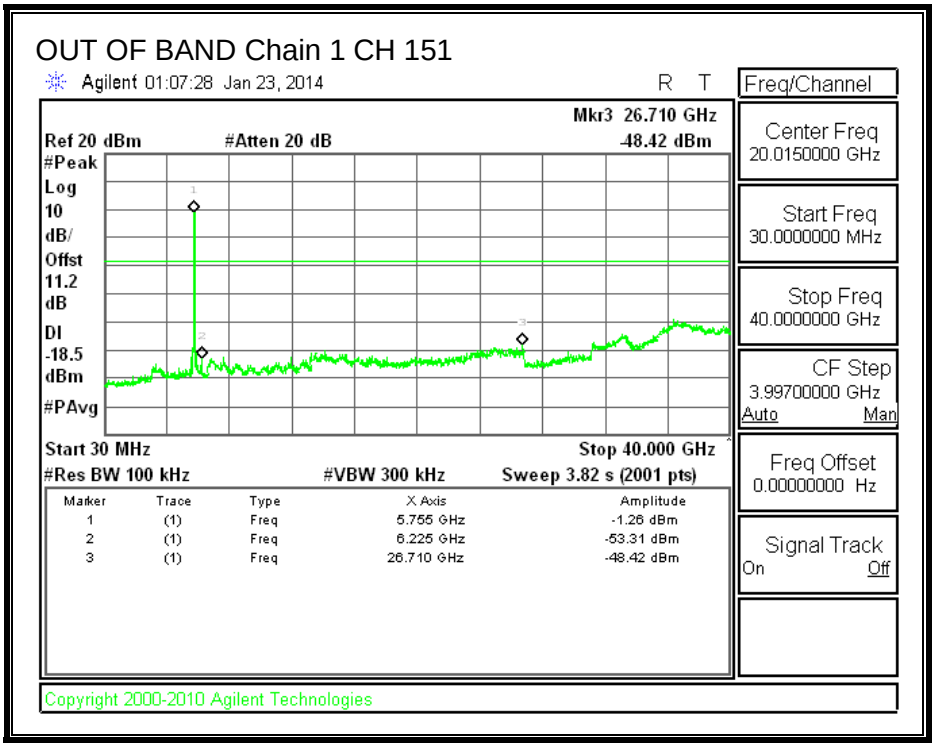
LOW CHANNEL BANDEDGE, Chain 1

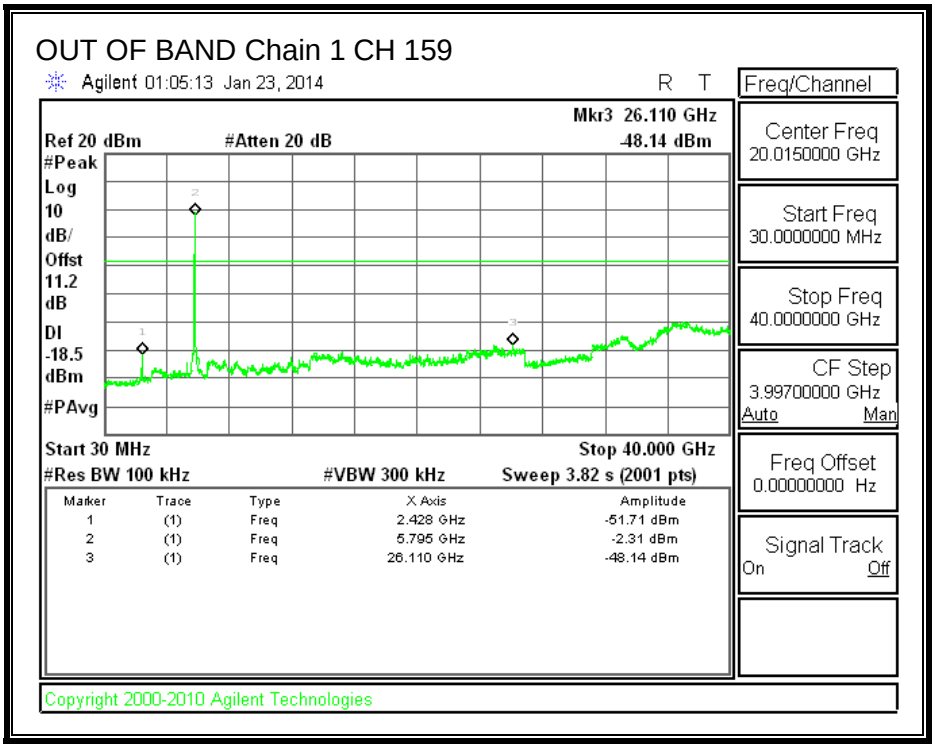


HIGH CHANNEL BANDEDGE, Chain 1

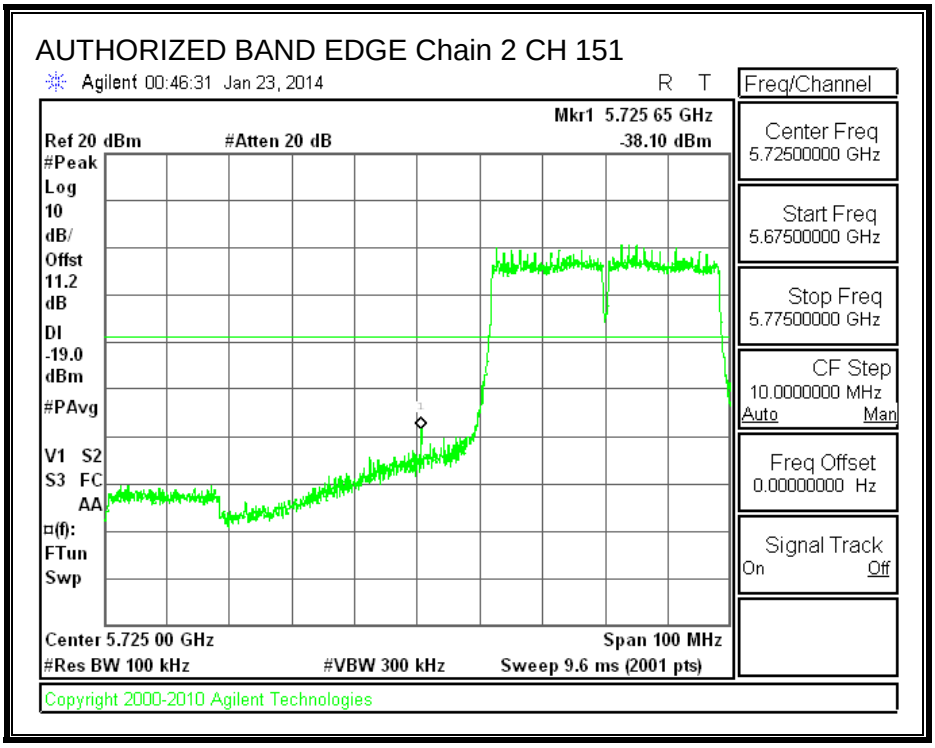


OUT-OF-BAND EMISSIONS, Chain 1

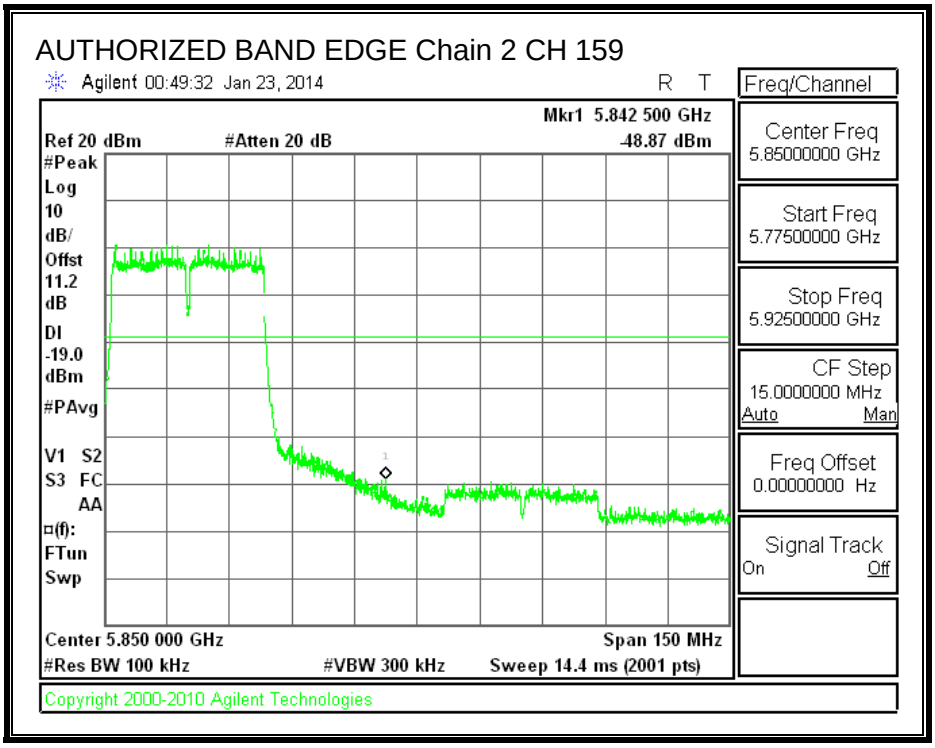




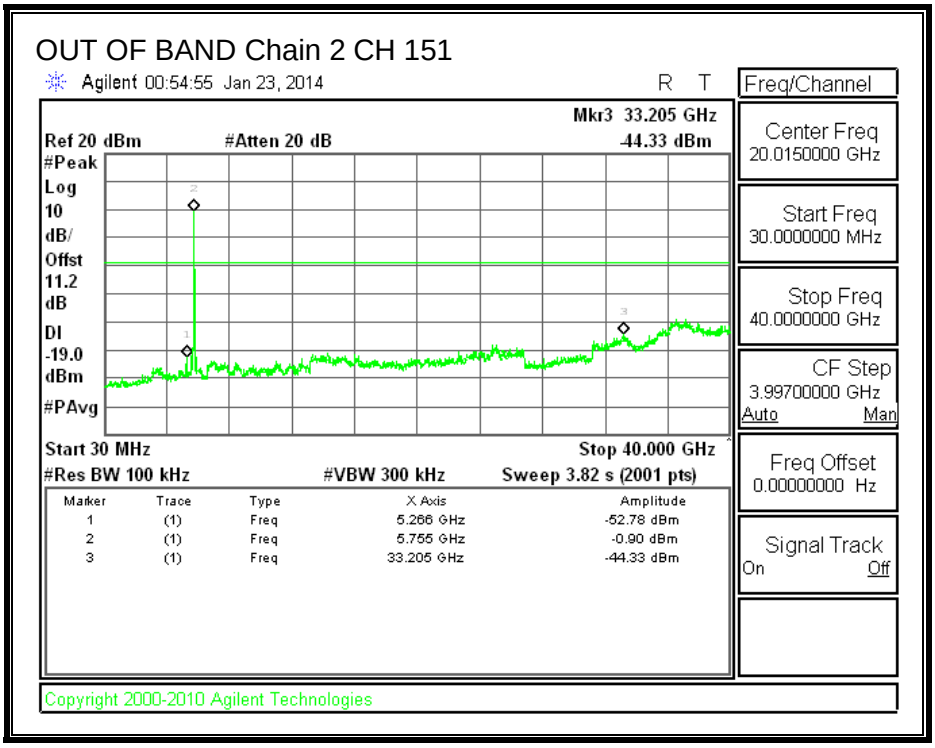
LOW CHANNEL BANDEDGE, Chain 2

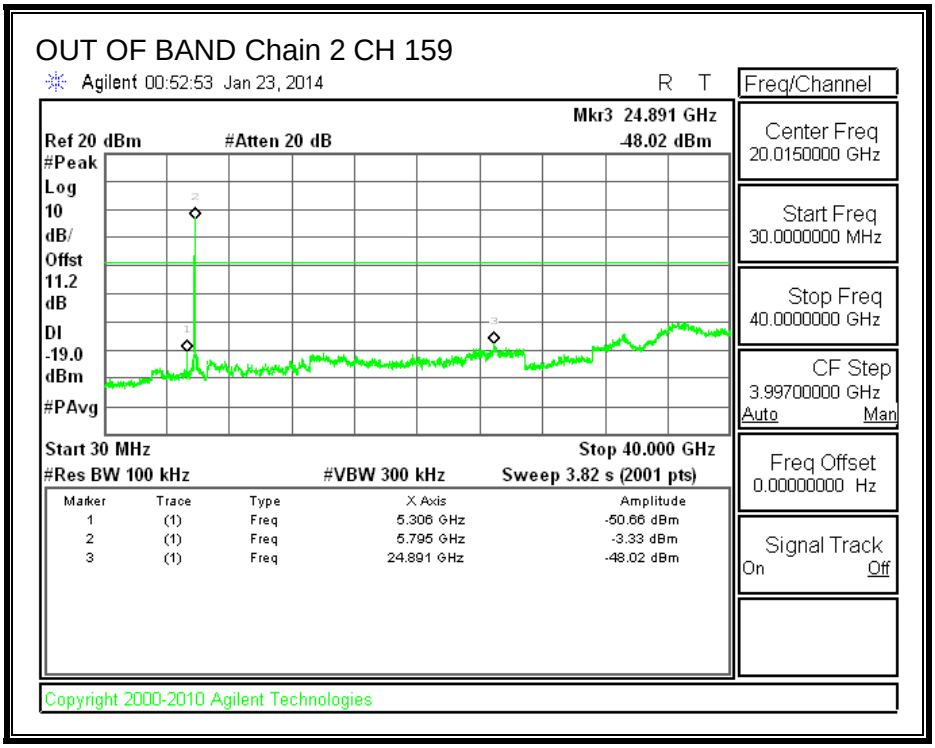


HIGH CHANNEL BANDEDGE, Chain 2



OUT-OF-BAND EMISSIONS, Chain 2





7.7. 802.11n HT40 3TX SDM MODE IN THE 5.8 GHz BAND

7.7.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

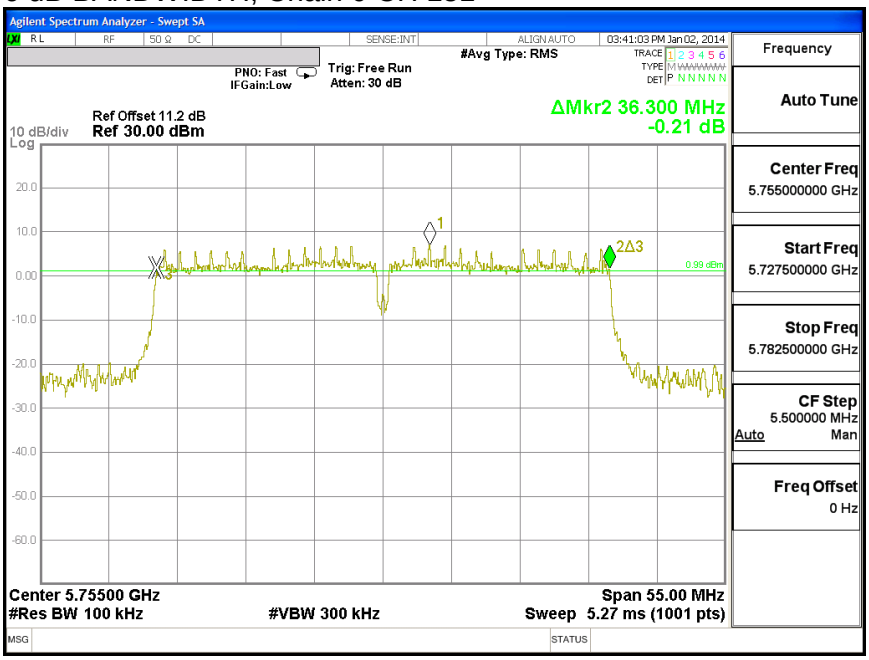
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

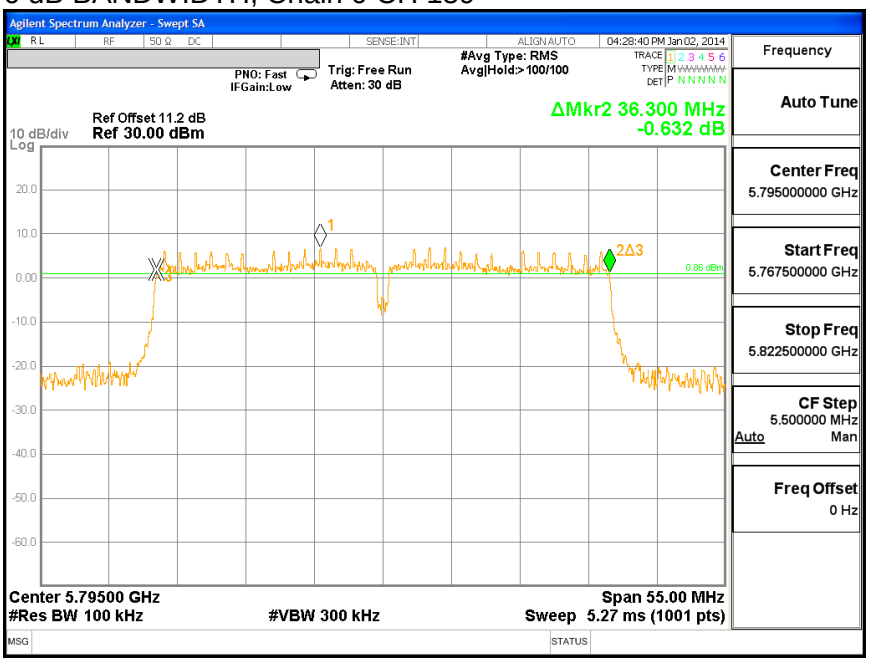
Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	6 dB BW Chain 2 (MHz)	Minimum Limit (MHz)
151	5755	36.300	36.355	36.300	0.5
159	5795	36.300	36.300	36.300	0.5

6 dB BANDWIDTH, Chain 0

6 dB BANDWIDTH, Chain 0 CH 151

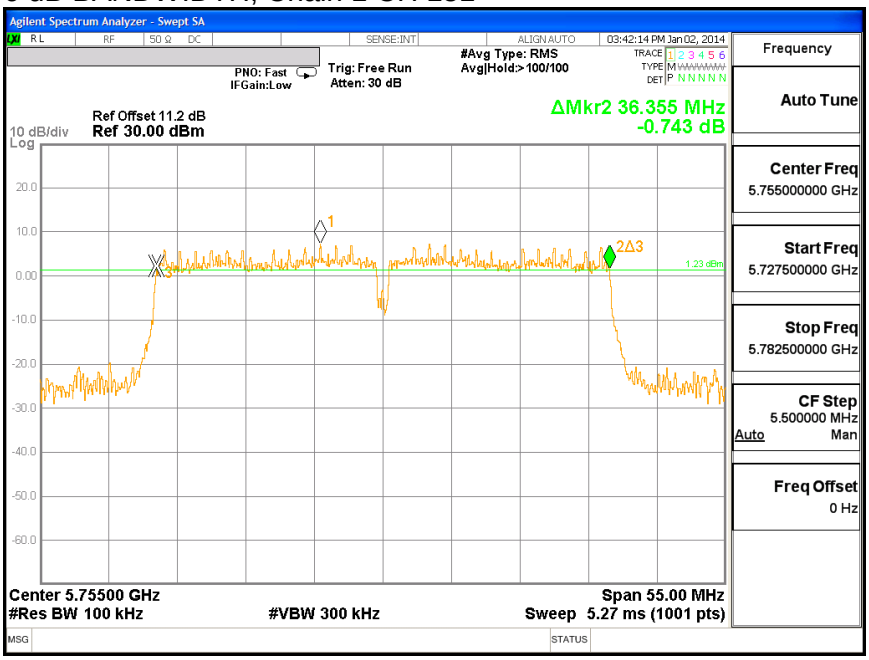


6 dB BANDWIDTH, Chain 0 CH 159

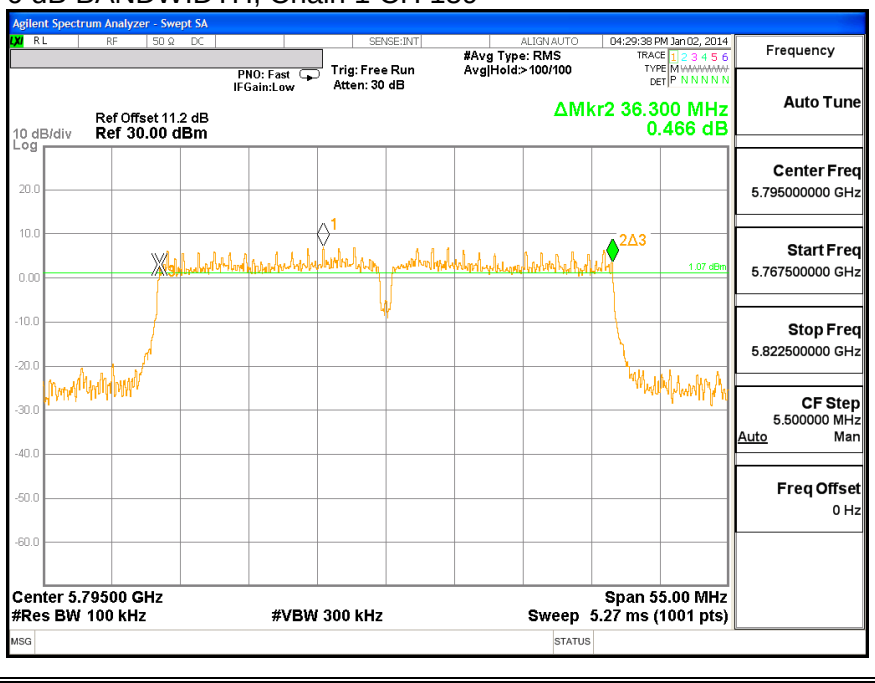


6 dB BANDWIDTH, Chain 1

6 dB BANDWIDTH, Chain 1 CH 151

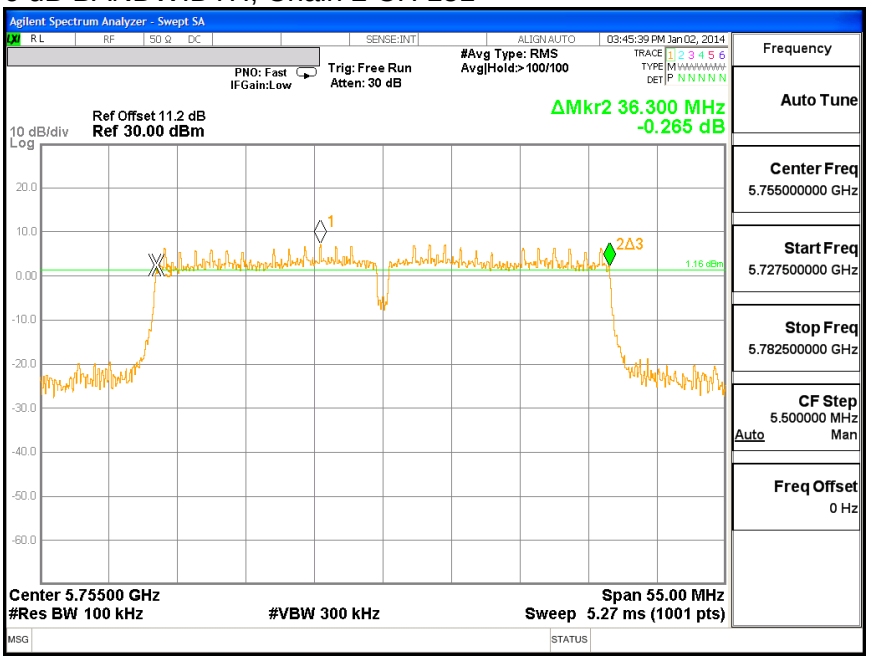


6 dB BANDWIDTH, Chain 1 CH 159

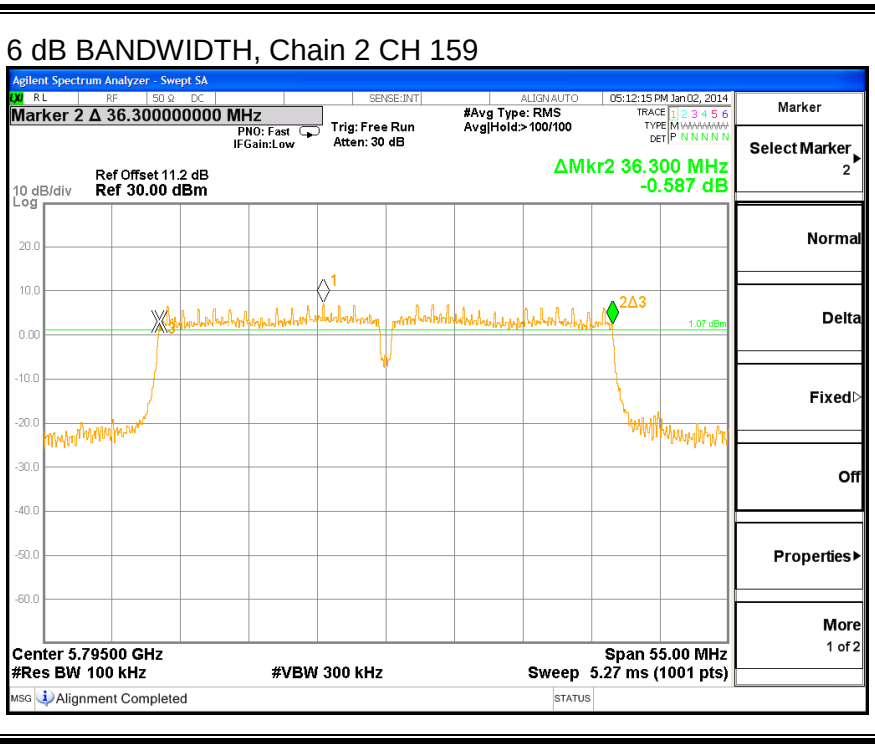


6 dB BANDWIDTH, Chain 2

6 dB BANDWIDTH, Chain 2 CH 151



6 dB BANDWIDTH, Chain 2 CH 159



7.7.2. 99% BANDWIDTH

LIMITS

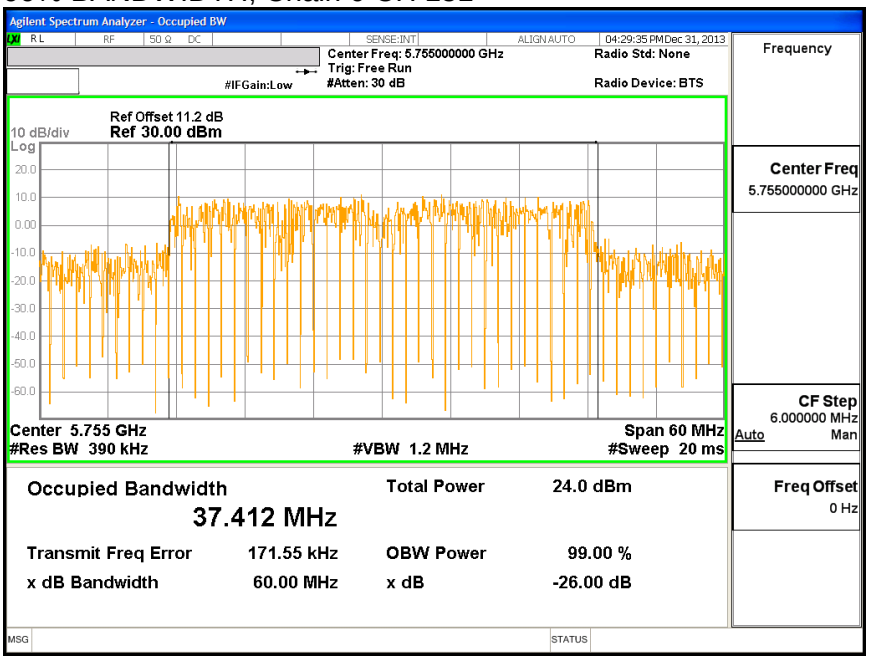
None; for reporting purposes only.

RESULTS

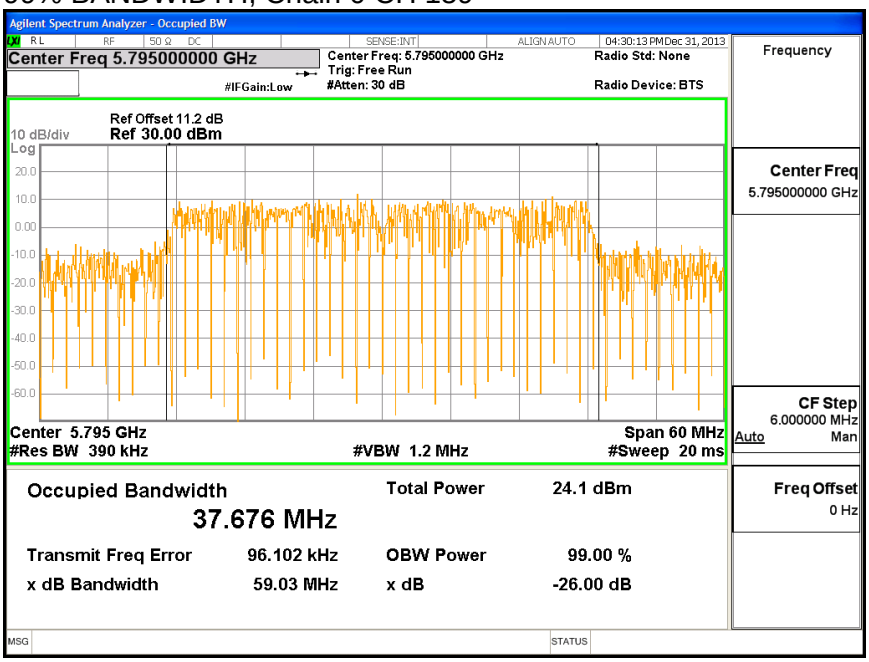
Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)	99% BW Chain 2 (MHz)
151	5755	37.412	37.074	36.712
159	5795	37.676	37.693	37.231

99% BANDWIDTH, Chain 0

99% BANDWIDTH, Chain 0 CH 151

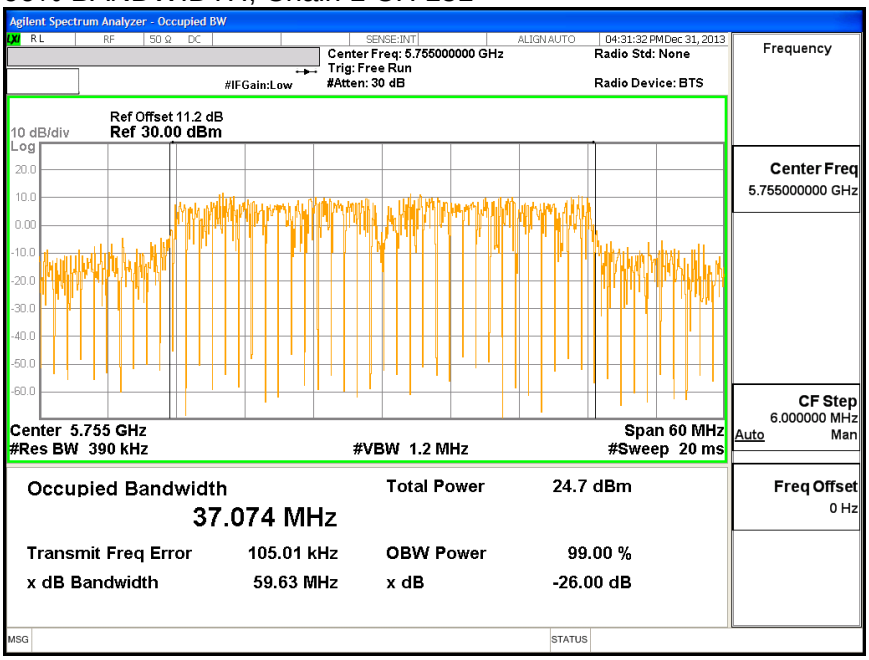


99% BANDWIDTH, Chain 0 CH 159

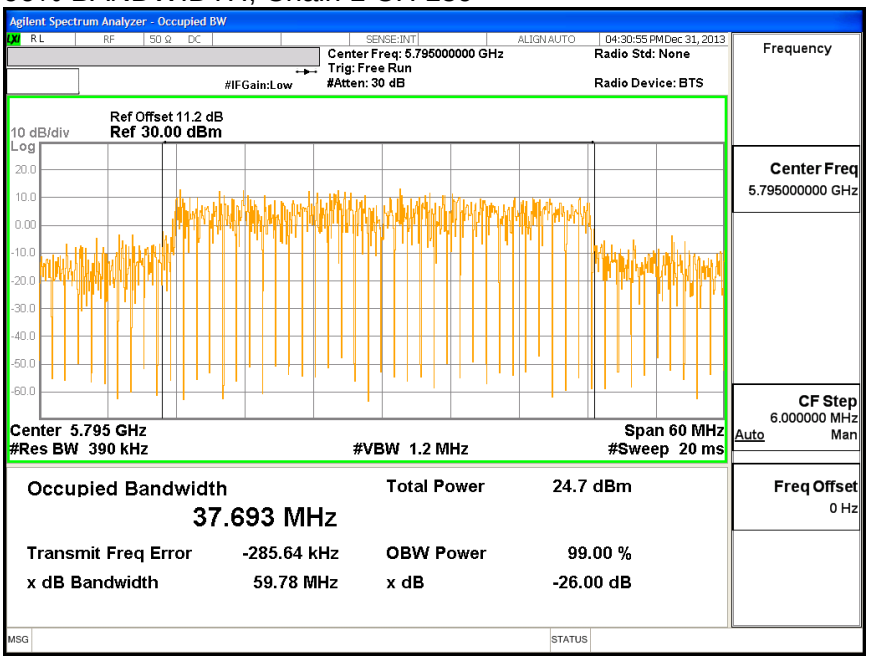


99% BANDWIDTH, Chain 1

99% BANDWIDTH, Chain 1 CH 151

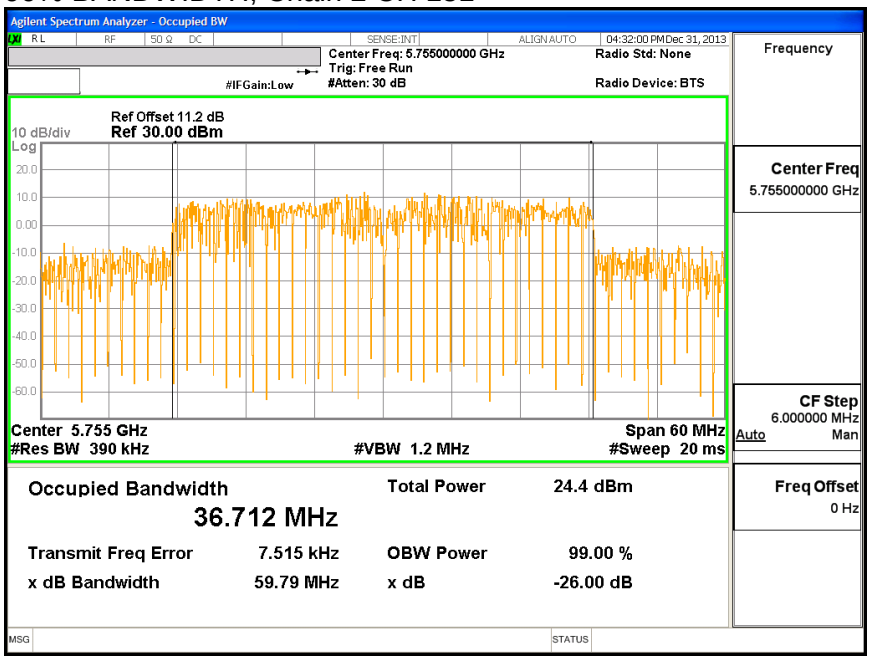


99% BANDWIDTH, Chain 1 CH 159

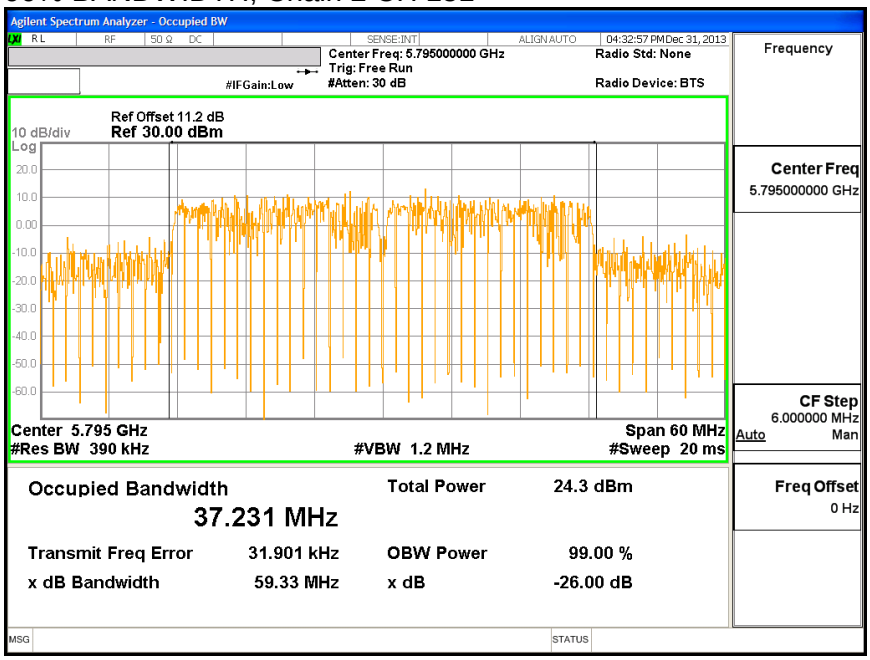


99% BANDWIDTH, Chain 2

99% BANDWIDTH, Chain 2 CH 151



99% BANDWIDTH, Chain 2 CH 151



7.7.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Chain 2 Power (dBm)	Total Power (dBm)
151	5755	20.04	20.39	20.16	24.97
159	5795	20.38	20.73	20.54	25.32

7.7.4. OUTPUT POWER

LIMITS

FCC §15.247

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain.

RESULTS

Limits

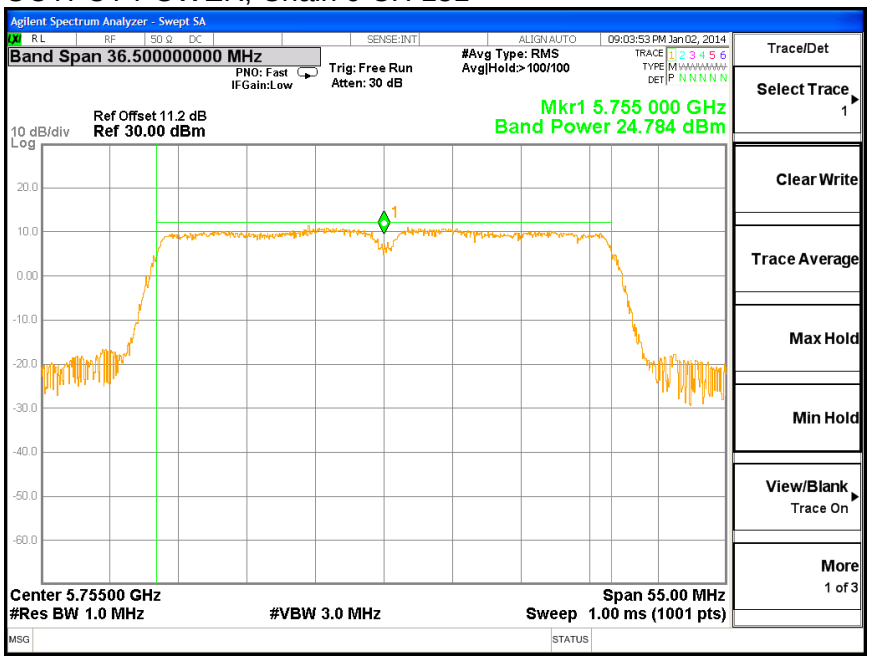
Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
151	5755	3.16	30.00	30	36	30.00
159	5795	3.16	30.00	30	36	30.00

Results

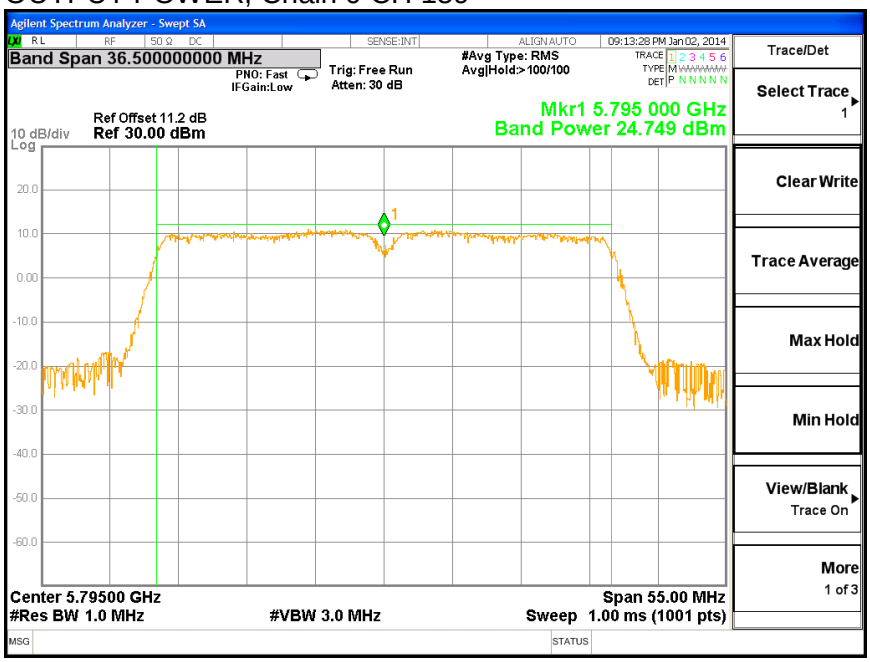
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
151	5755	24.78	25.10	24.80	29.67	30.00	-0.33
159	5795	24.75	25.13	24.81	29.67	30.00	-0.33

OUTPUT POWER, Chain 0

OUTPUT POWER, Chain 0 CH 151

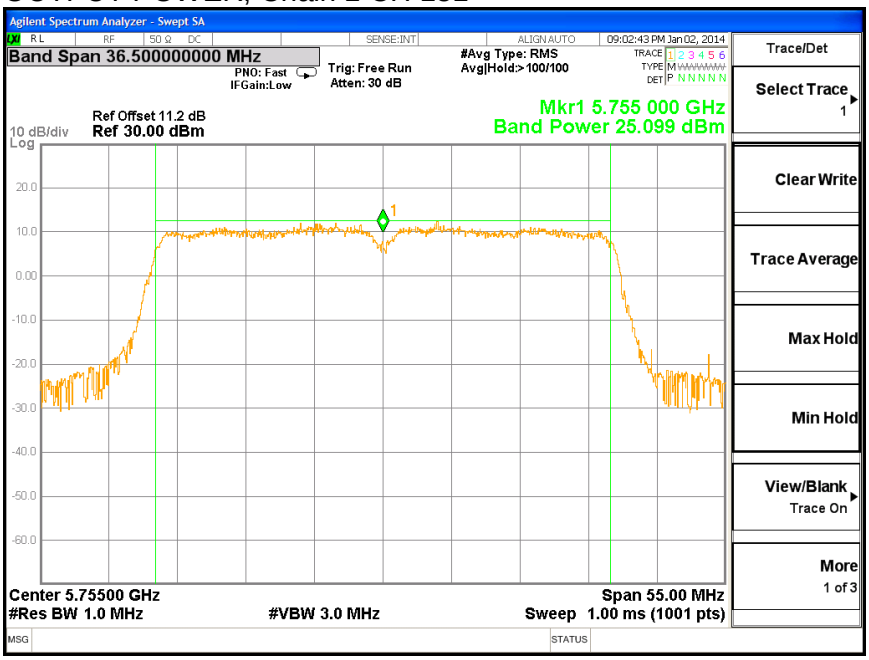


OUTPUT POWER, Chain 0 CH 159

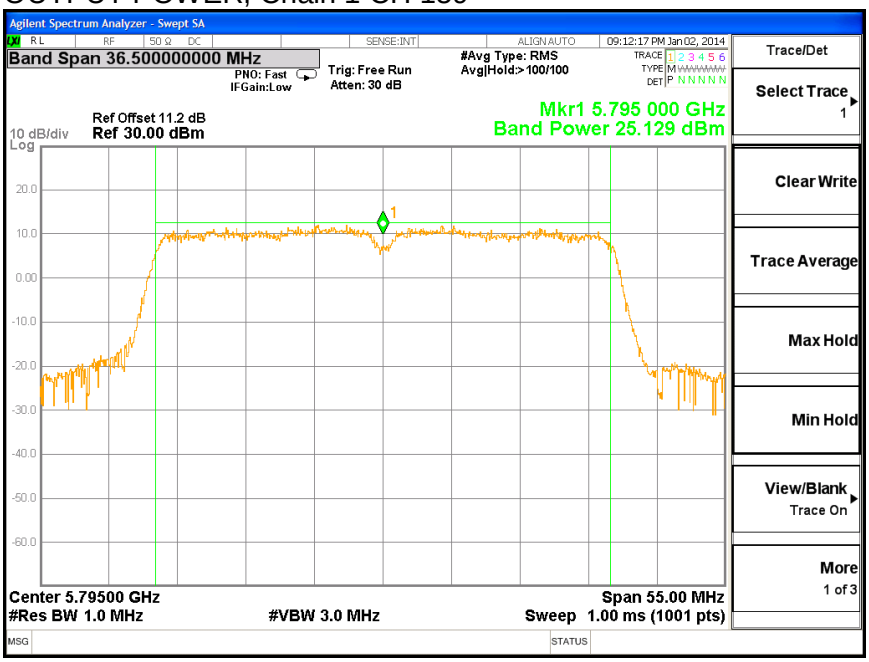


OUTPUT POWER, Chain 1

OUTPUT POWER, Chain 1 CH 151

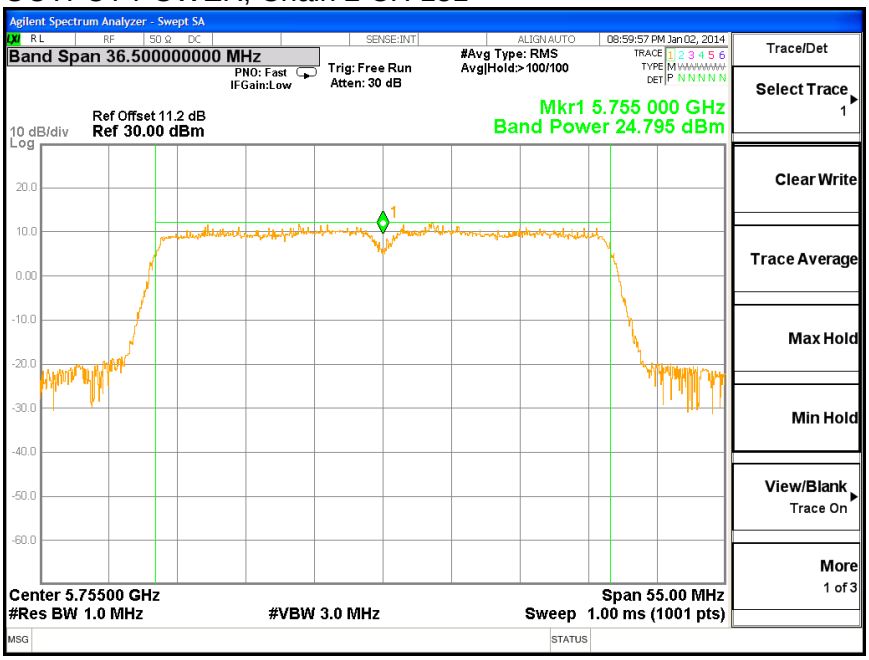


OUTPUT POWER, Chain 1 CH 159

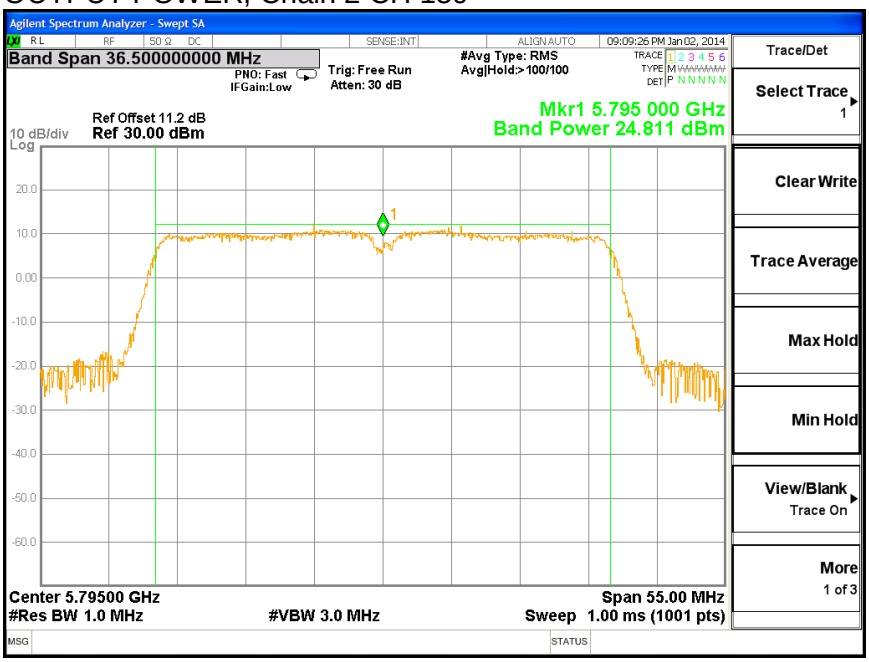


OUTPUT POWER, Chain 2

OUTPUT POWER, Chain 2 CH 151



OUTPUT POWER, Chain 2 CH 159



7.7.5. PSD

LIMITS

FCC §15.247

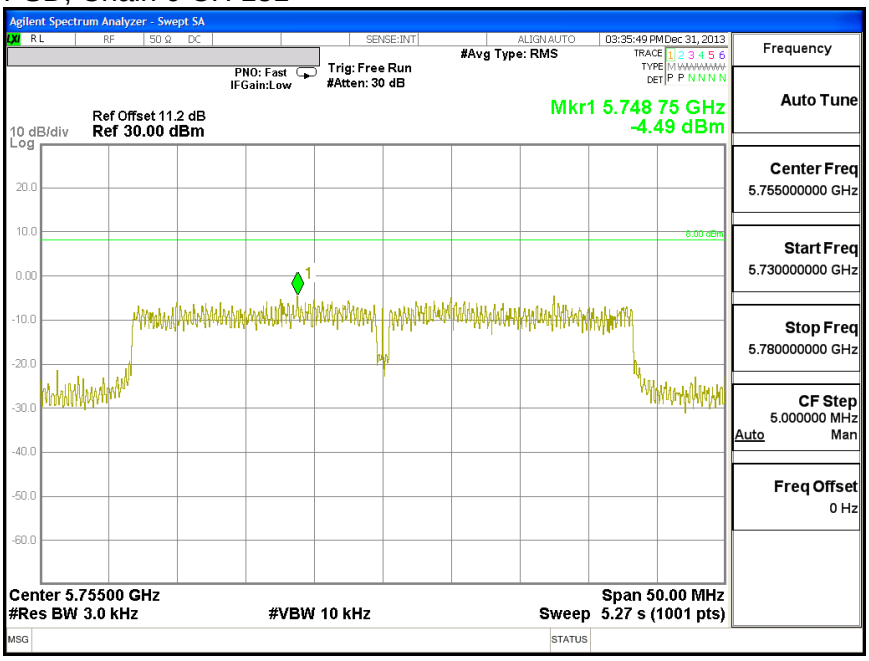
RESULTS

PSD Results

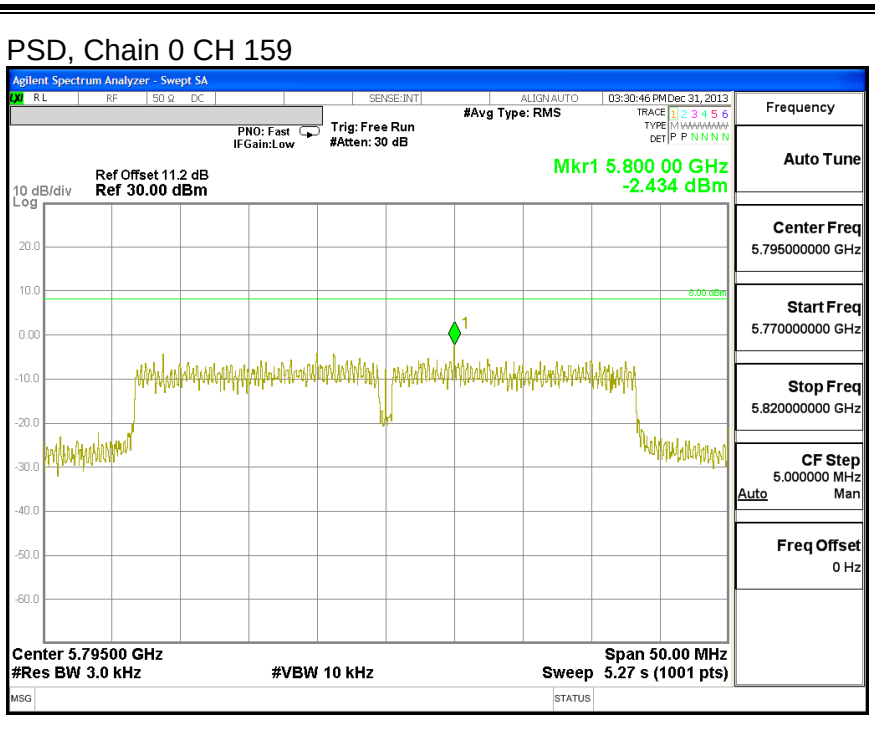
Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Chain 2 Meas (dBm)	Total PSD (dBm)	Limit (dBm)	Margin (dB)
151	5755	-4.49	-4.19	-3.31	0.80	8.0	-7.2
159	5795	-2.43	-2.91	-2.96	2.01	8.0	-6.0

PSD, Chain 0

PSD, Chain 0 CH 151

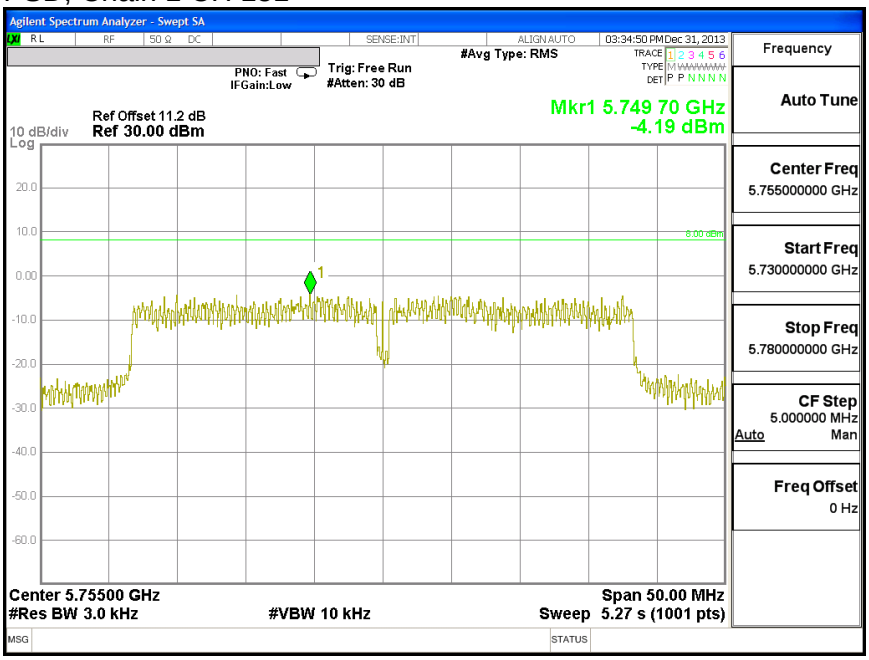


PSD, Chain 0 CH 159

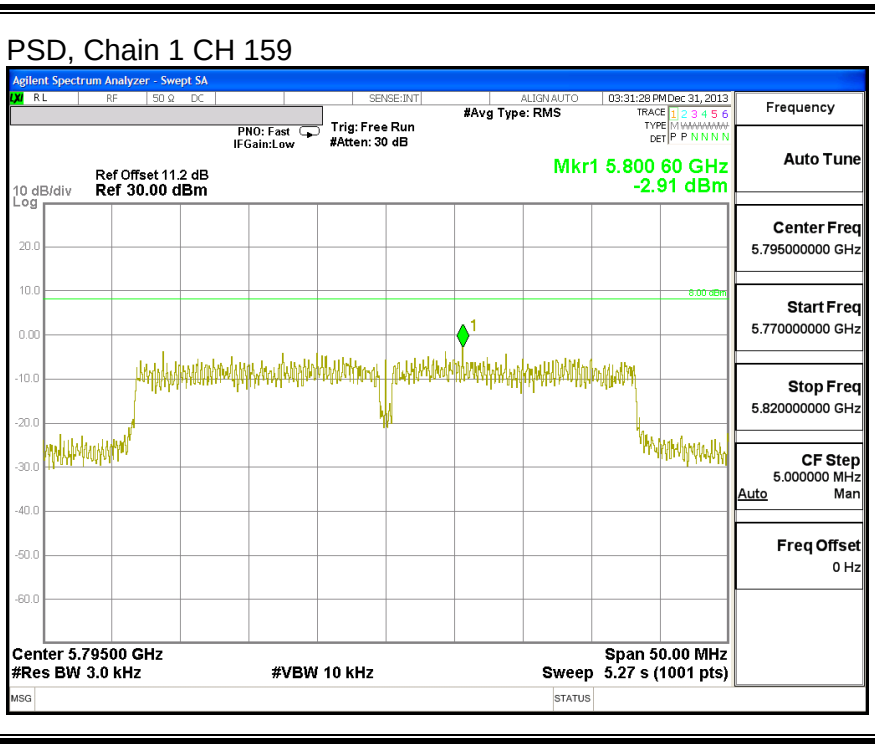


PSD, Chain 1

PSD, Chain 1 CH 151

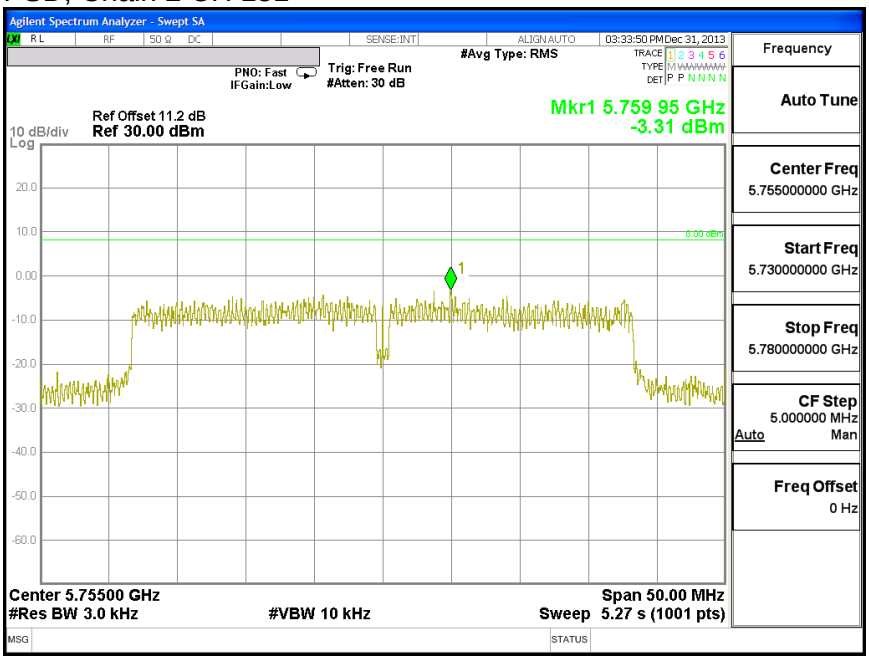


PSD, Chain 1 CH 159

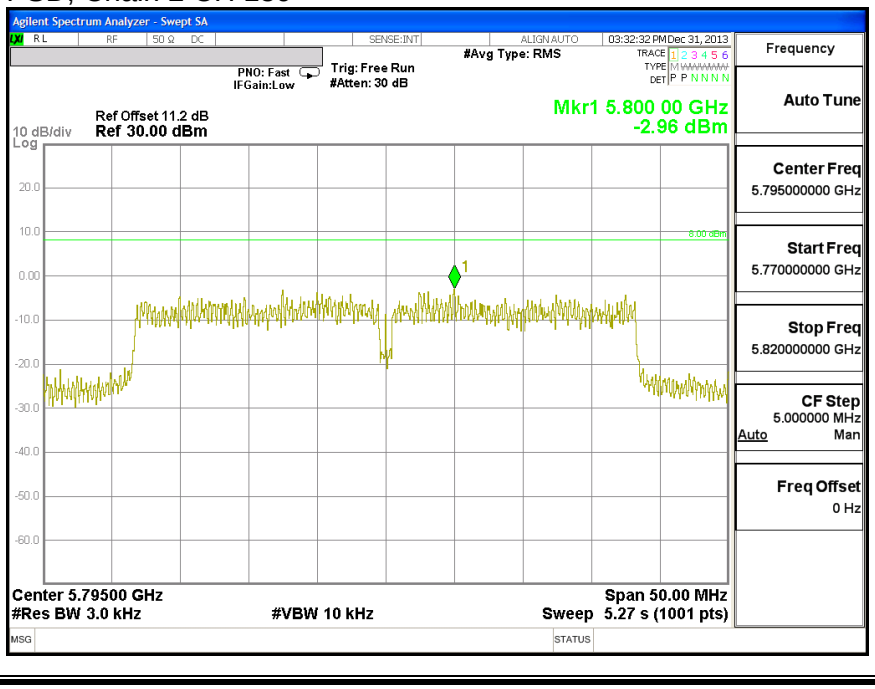


PSD, Chain 2

PSD, Chain 2 CH 151



PSD, Chain 2 CH 159



7.7.6. OUT-OF-BAND EMISSIONS

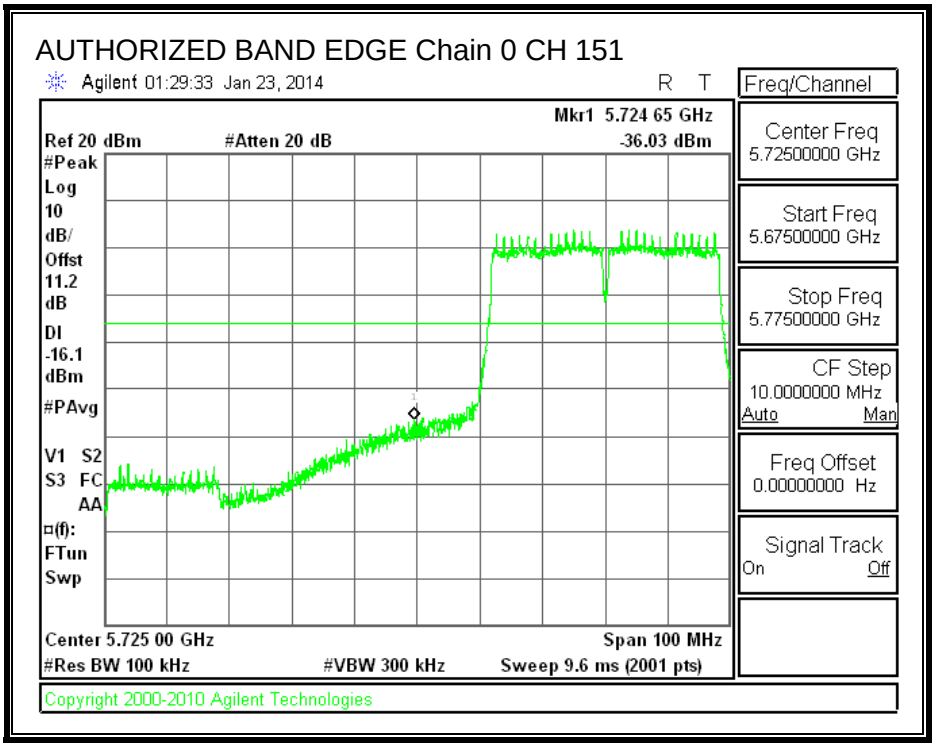
LIMITS

FCC §15.247 (d)

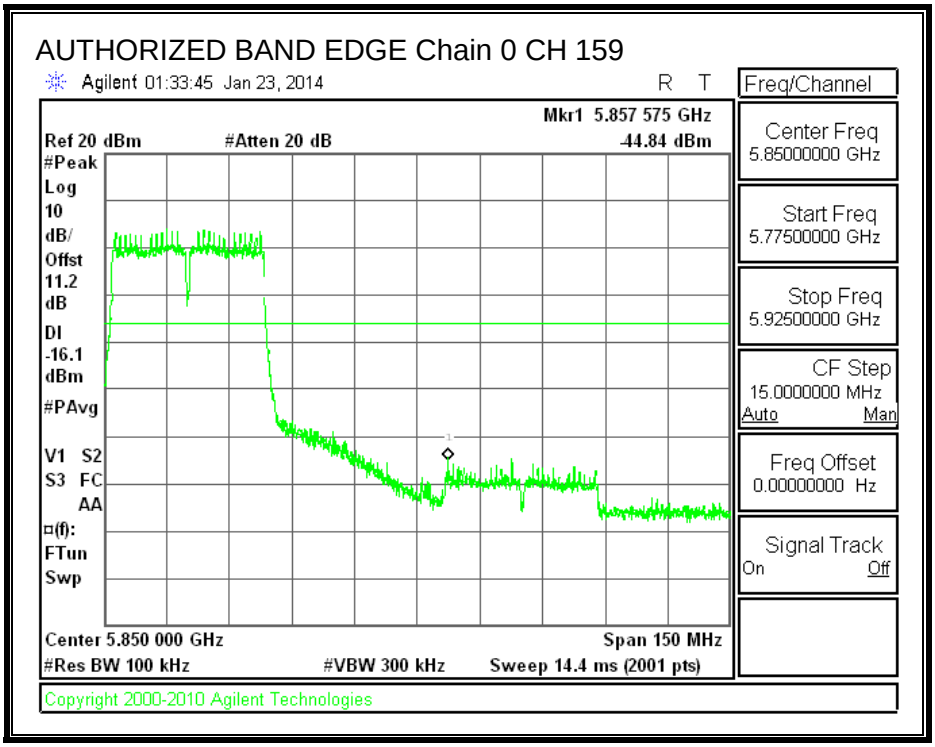
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

RESULTS

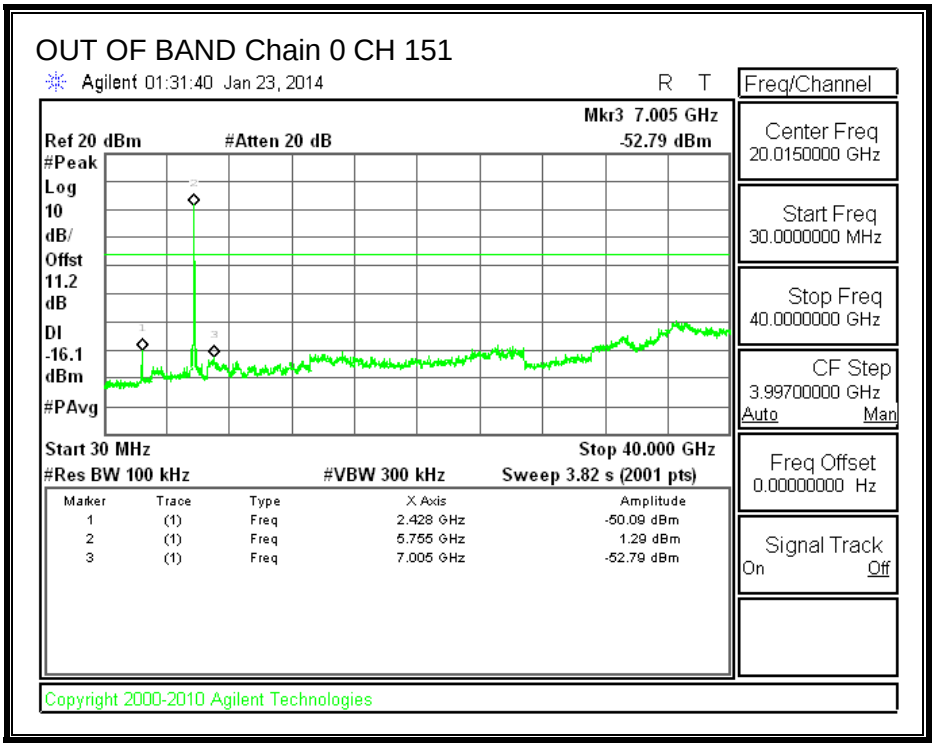
LOW CHANNEL BANDEDGE, Chain 0

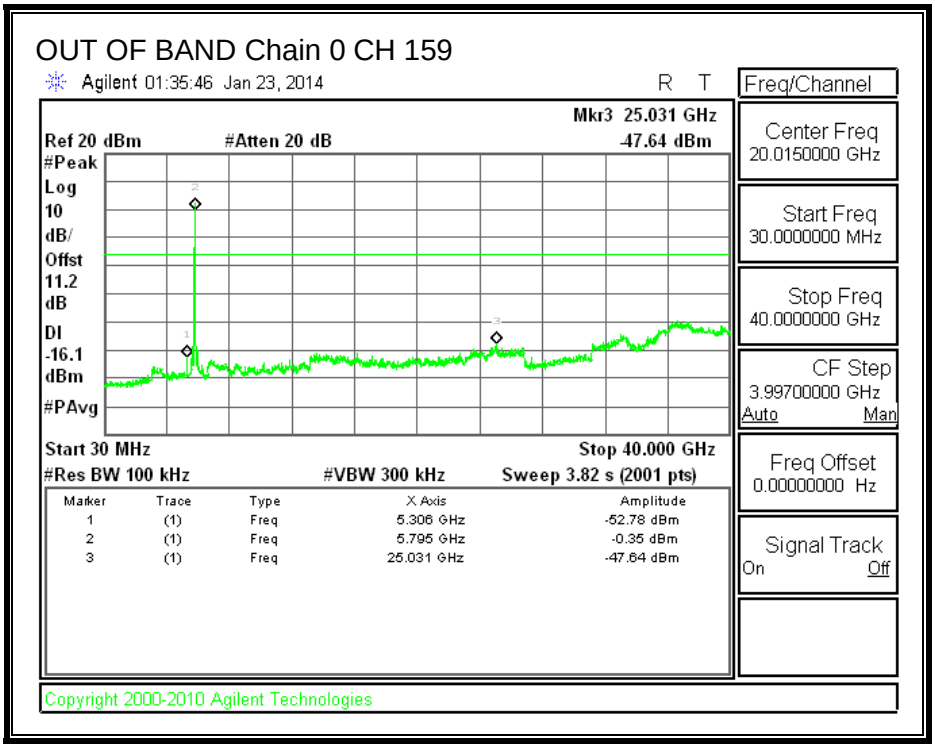


HIGH CHANNEL BANDEDGE, Chain 0

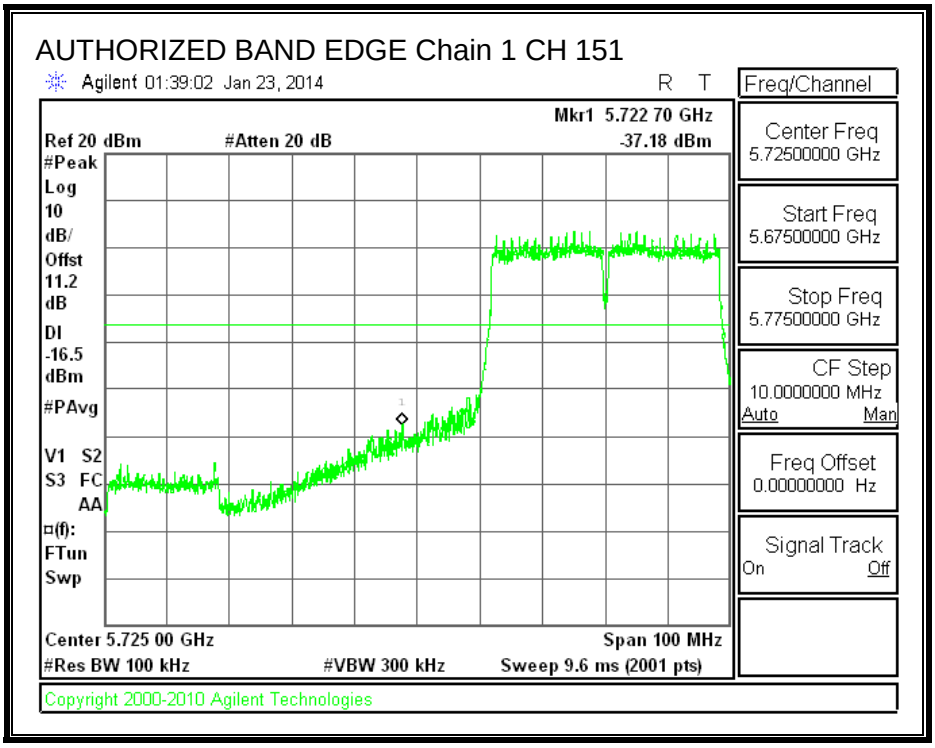


OUT-OF-BAND EMISSIONS, Chain 0

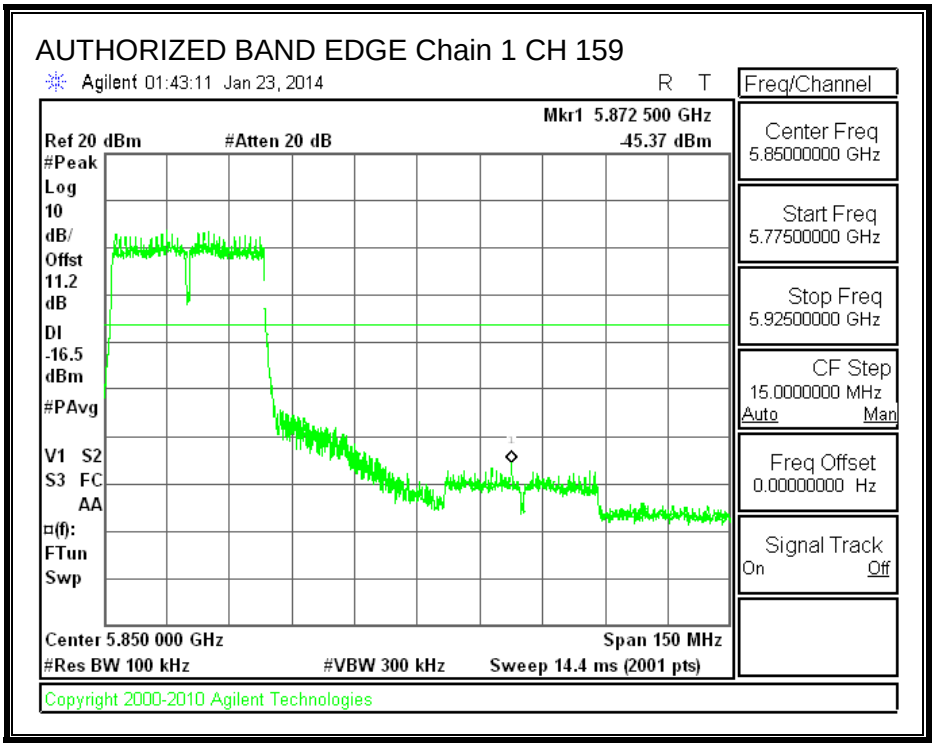




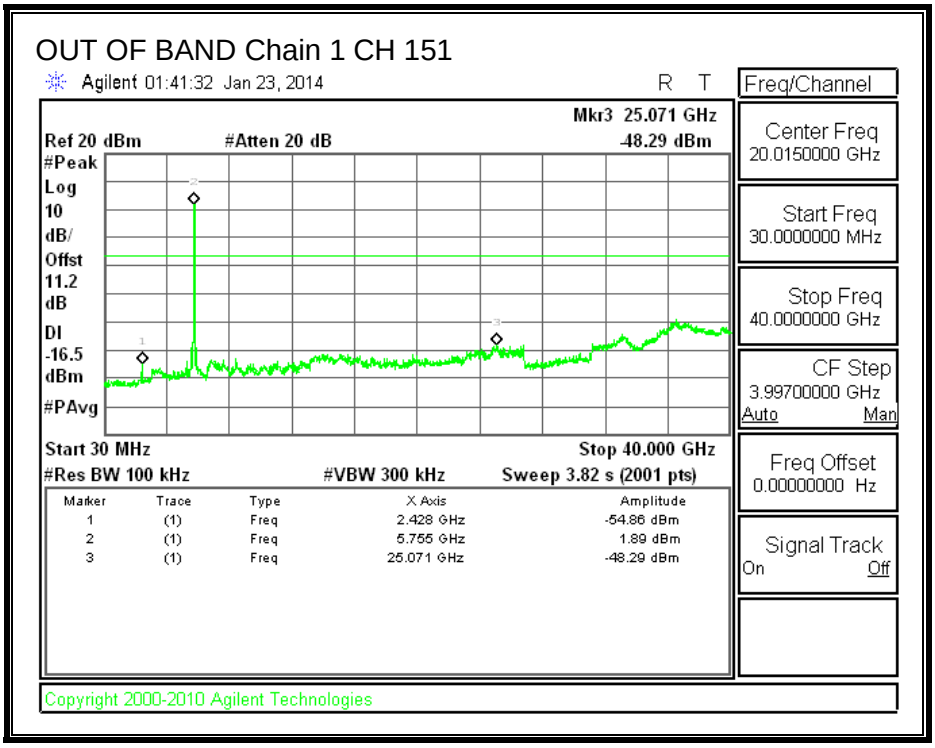
LOW CHANNEL BANDEDGE, Chain 1

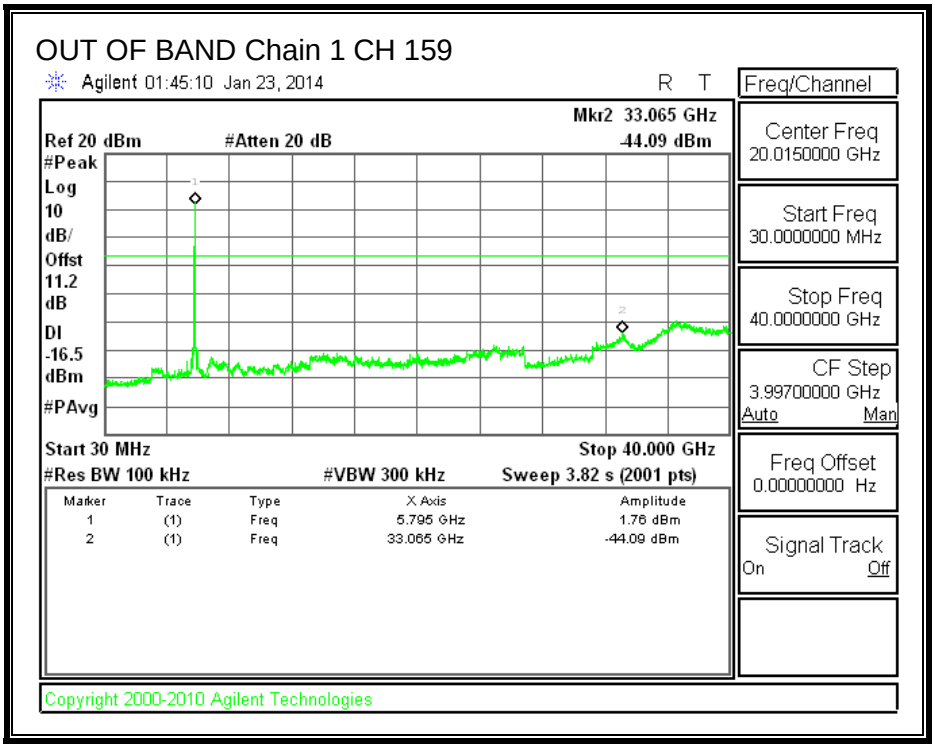


HIGH CHANNEL BANDEDGE, Chain 1

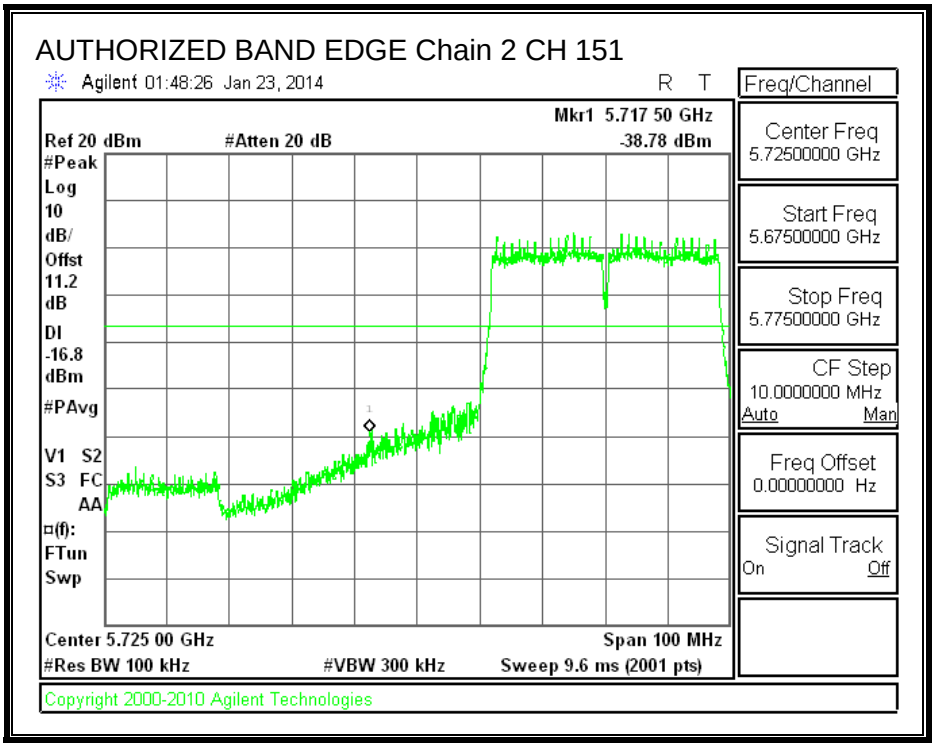


OUT-OF-BAND EMISSIONS, Chain 1

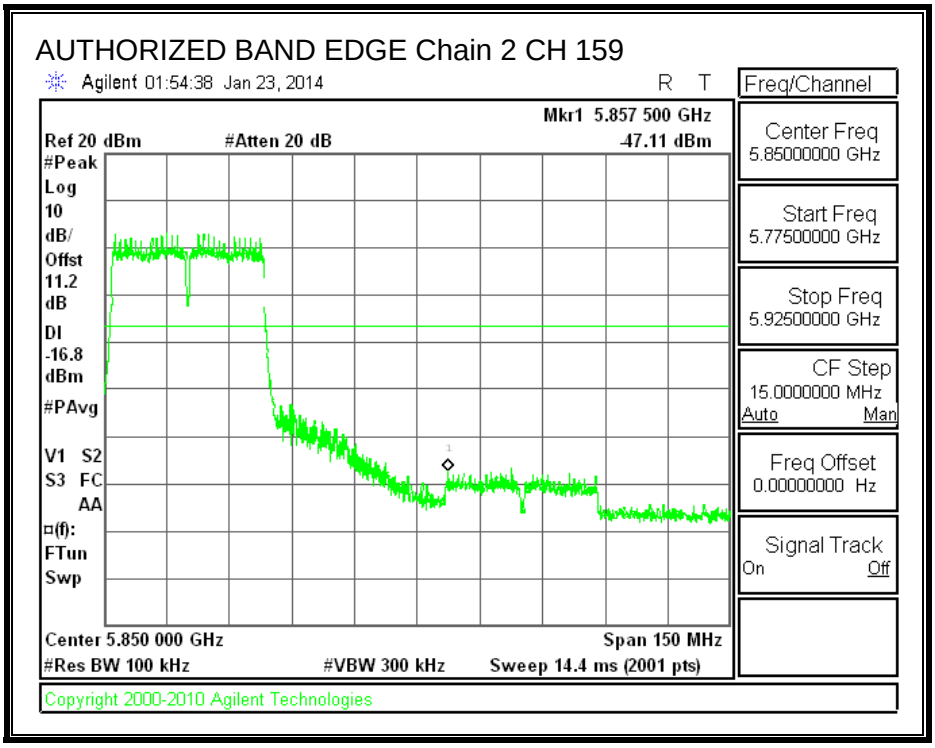




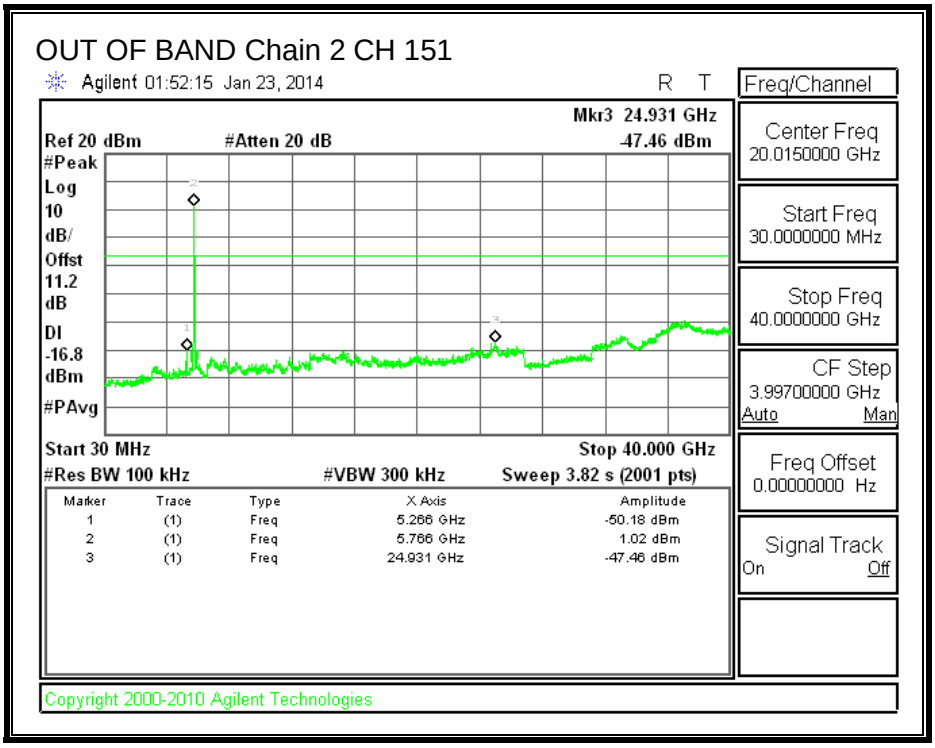
LOW CHANNEL BANDEDGE, Chain 2

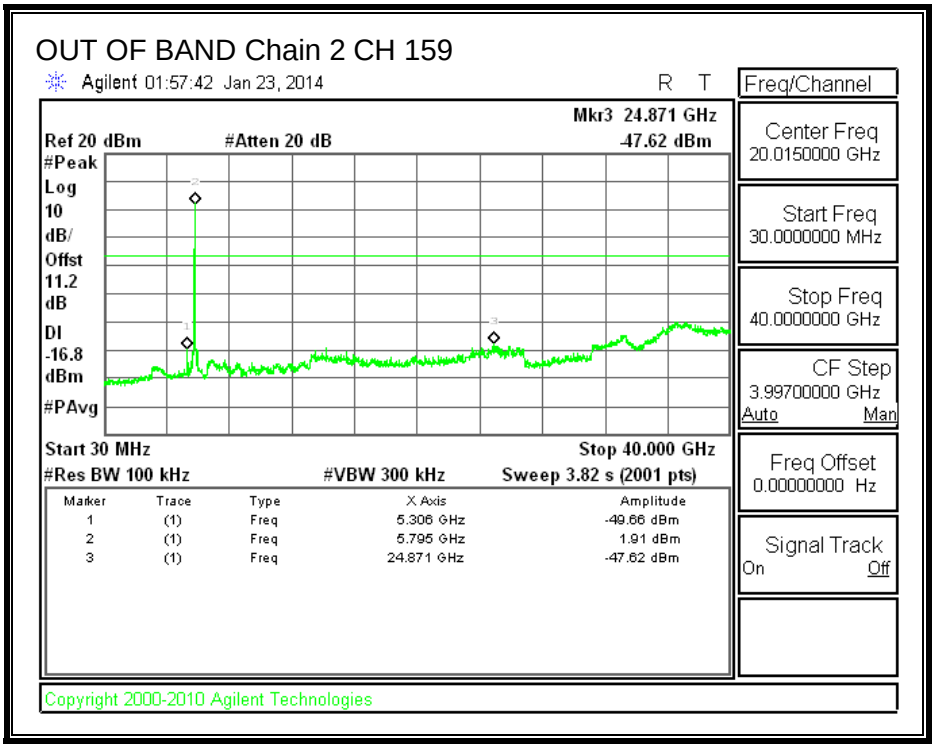


HIGH CHANNEL BANDEDGE, Chain 2



OUT-OF-BAND EMISSIONS, Chain 2





7.8. 802.11ac 80 SISO MODE IN THE 5.8 GHz BAND

7.8.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

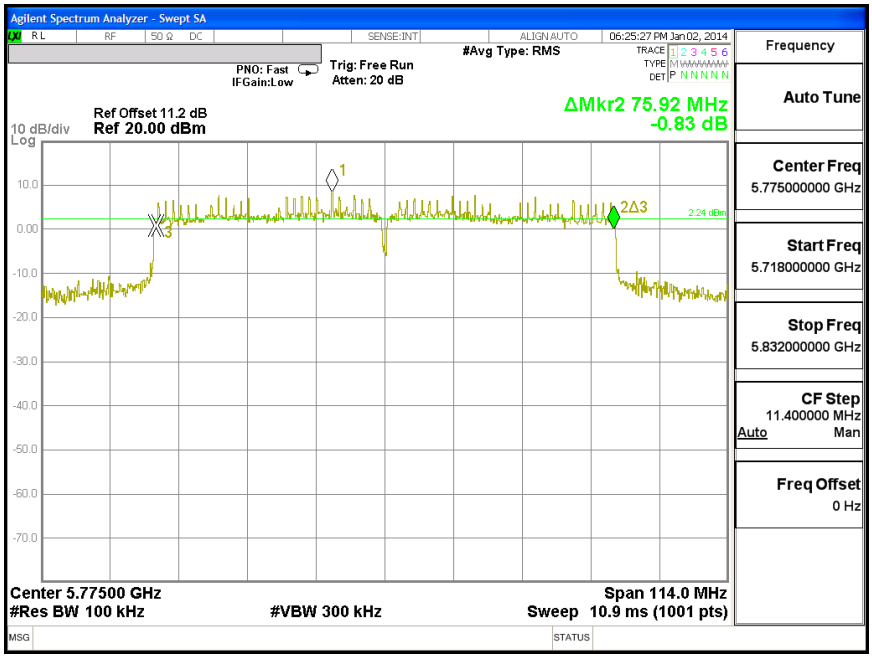
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
155	5775	75.920	0.5

6 dB BANDWIDTH

6 dB BANDWIDTH CH 155



7.8.2. 99% BANDWIDTH

LIMITS

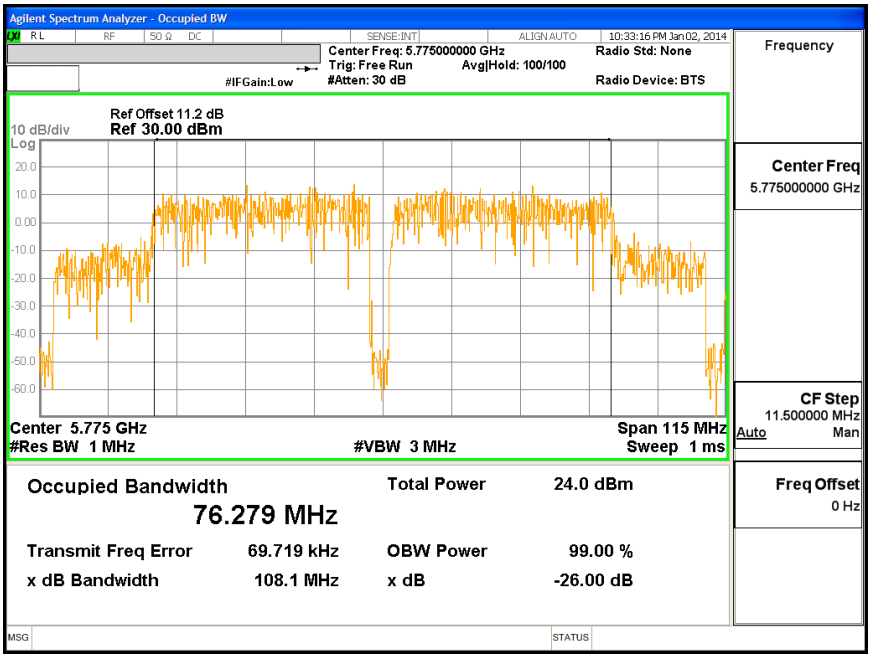
None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
155	5775	76.279

99% BANDWIDTH

99% BANDWIDTH CH 155



7.8.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	Power (dBm)
155	5775	21.75

7.8.4. OUTPUT POWER

LIMITS

FCC §15.247

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

RESULTS

Limits

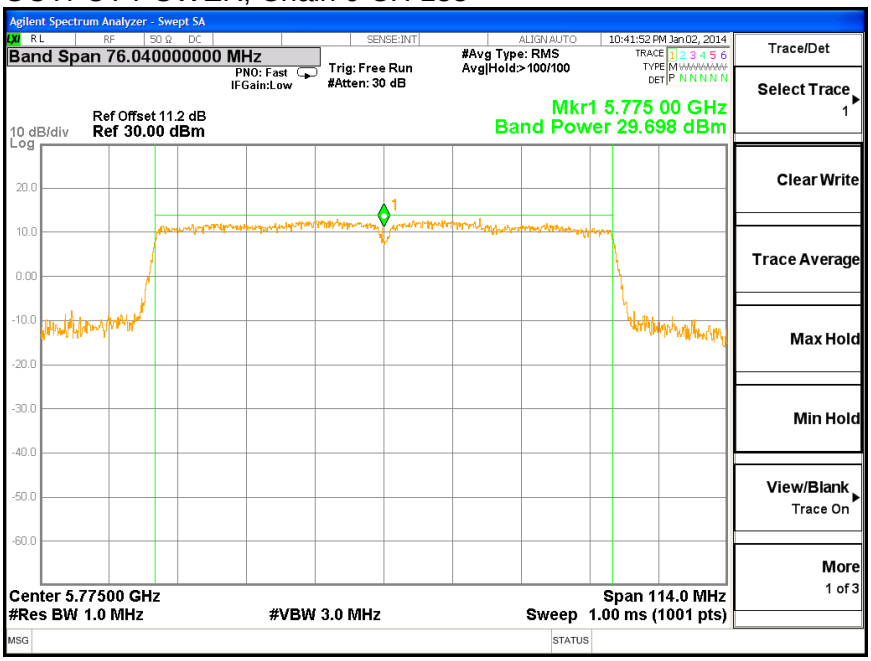
Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
155	5775	3.16	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
155	5775	29.698	29.70	30.00	-0.30

OUTPUT POWER, Chain 0

OUTPUT POWER, Chain 0 CH 155



7.8.5. PSD

LIMITS

FCC §15.247

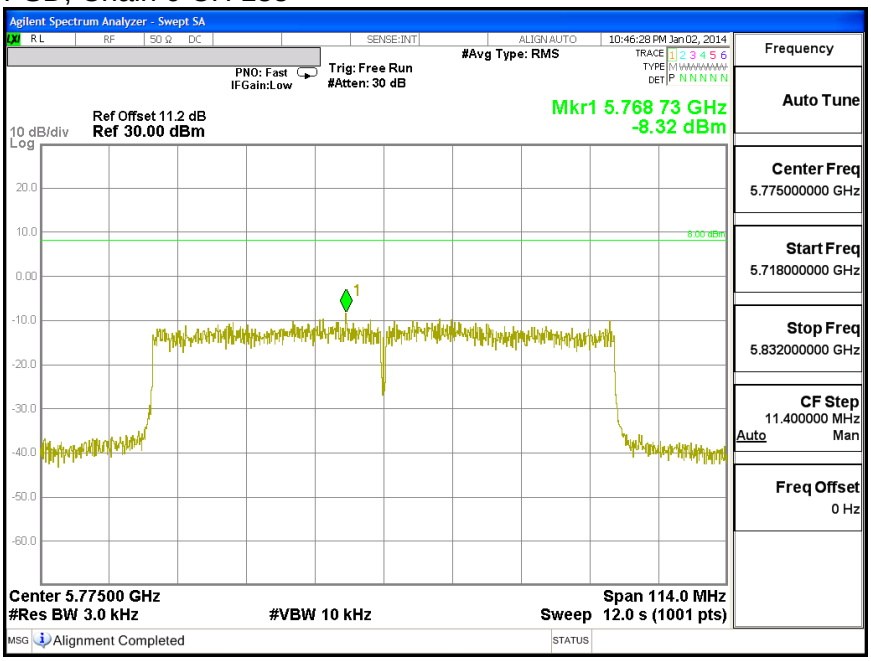
RESULTS

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Limit (dBm)	Margin (dB)
155	5775	-8.32	8.0	-16.3

PSD, Chain 0

PSD, Chain 0 CH 155



7.8.6. OUT-OF-BAND EMISSIONS

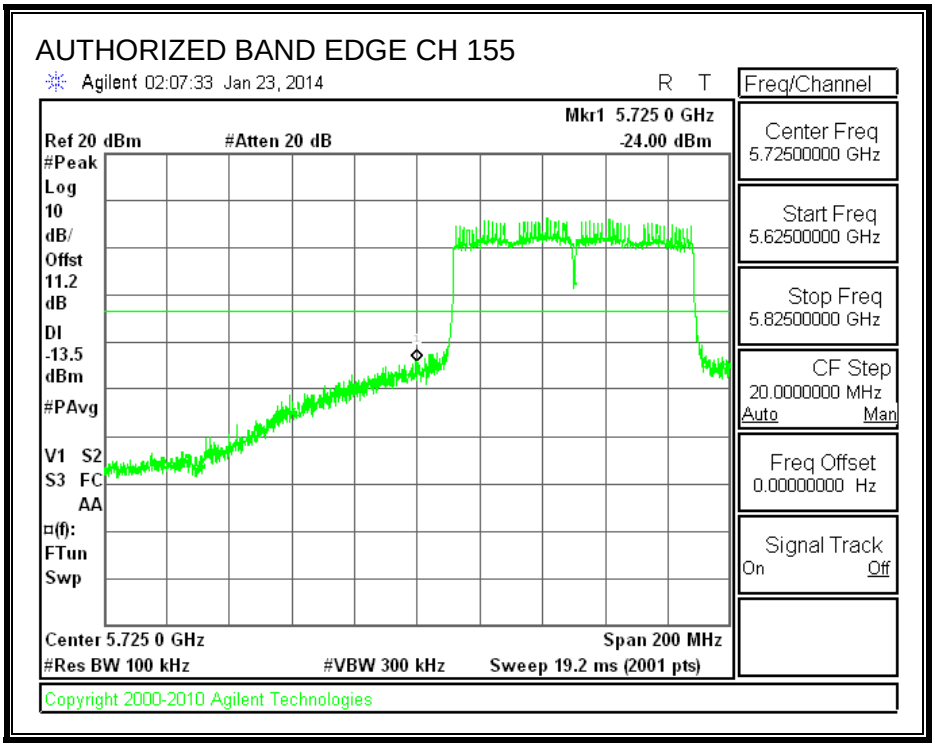
LIMITS

FCC §15.247 (d)

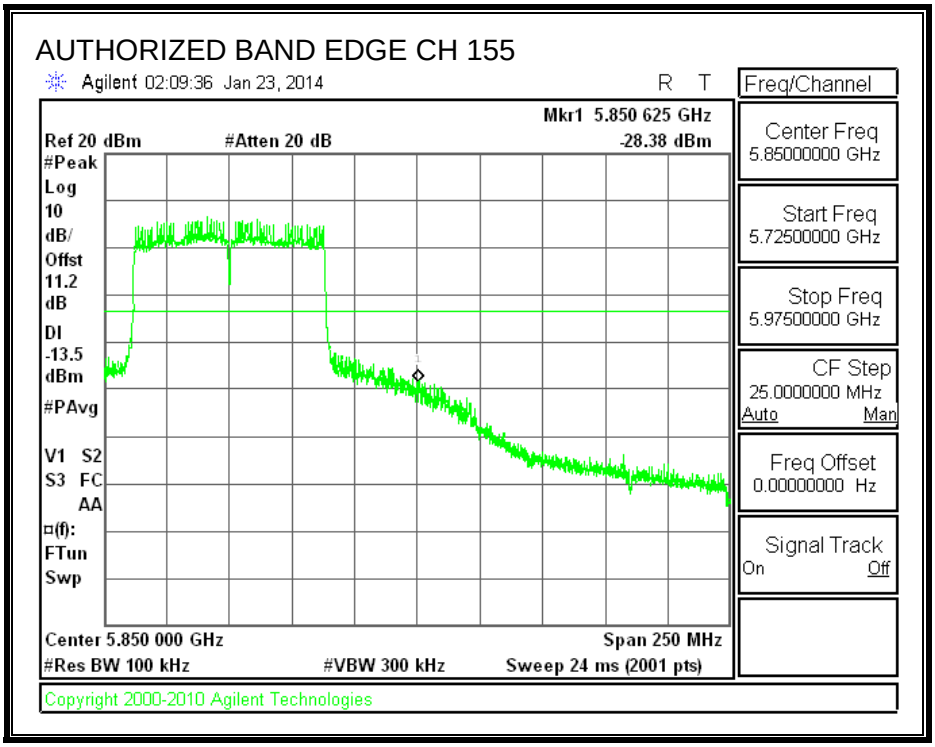
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

RESULTS

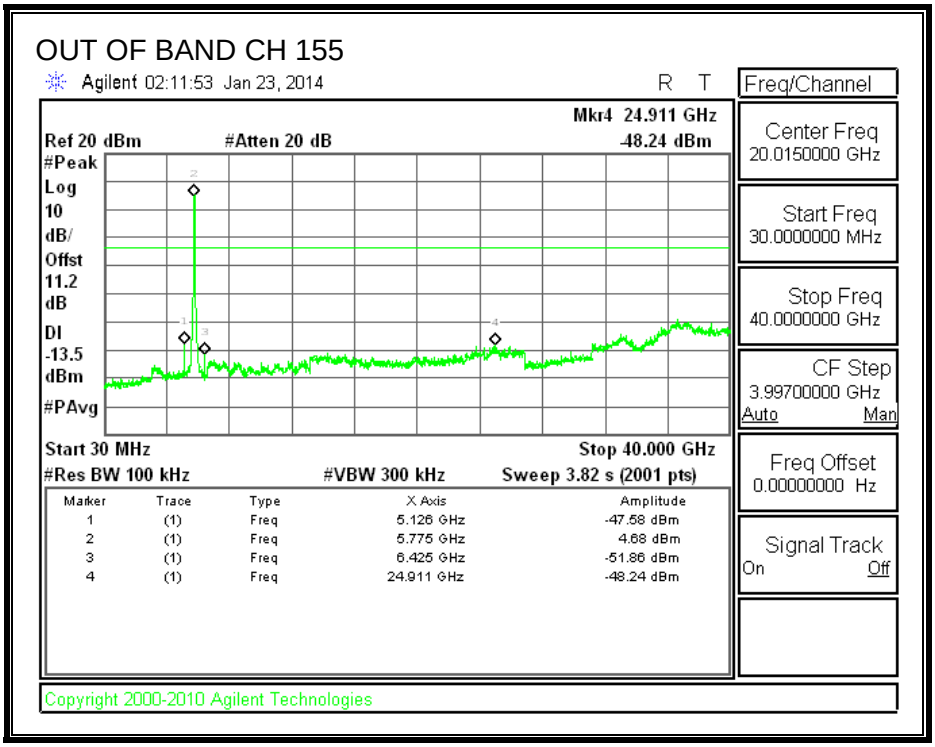
MID CHANNEL BANDEDGE



MID CHANNEL BANDEDGE



OUT-OF-BAND EMISSIONS



7.9. 802.11ac 80 3TX CDD MODE IN THE 5.8 GHz BAND

7.9.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

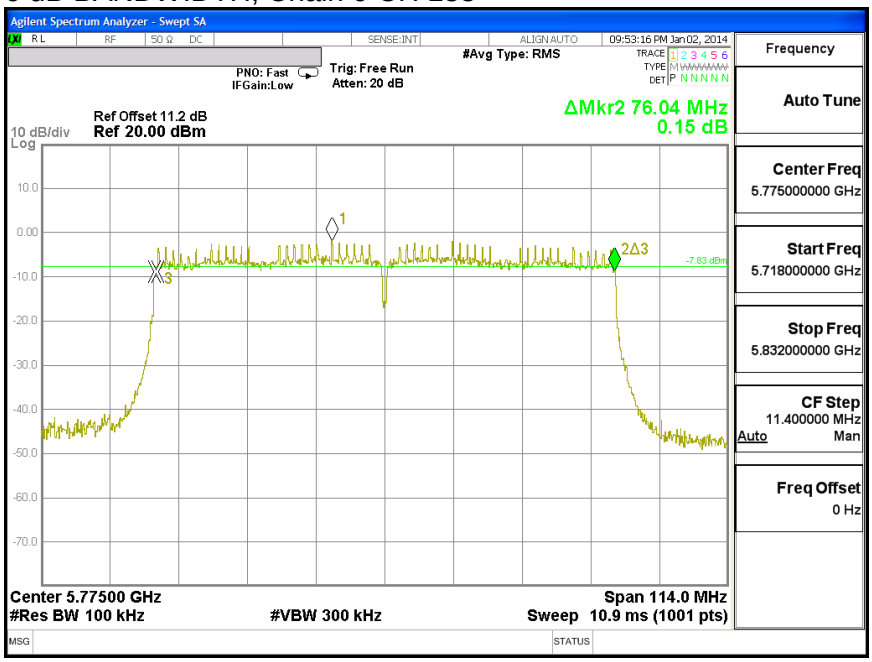
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	6 dB BW Chain 2 (MHz)	Minimum Limit (MHz)
155	5775	76.040	76.150	76.150	0.5

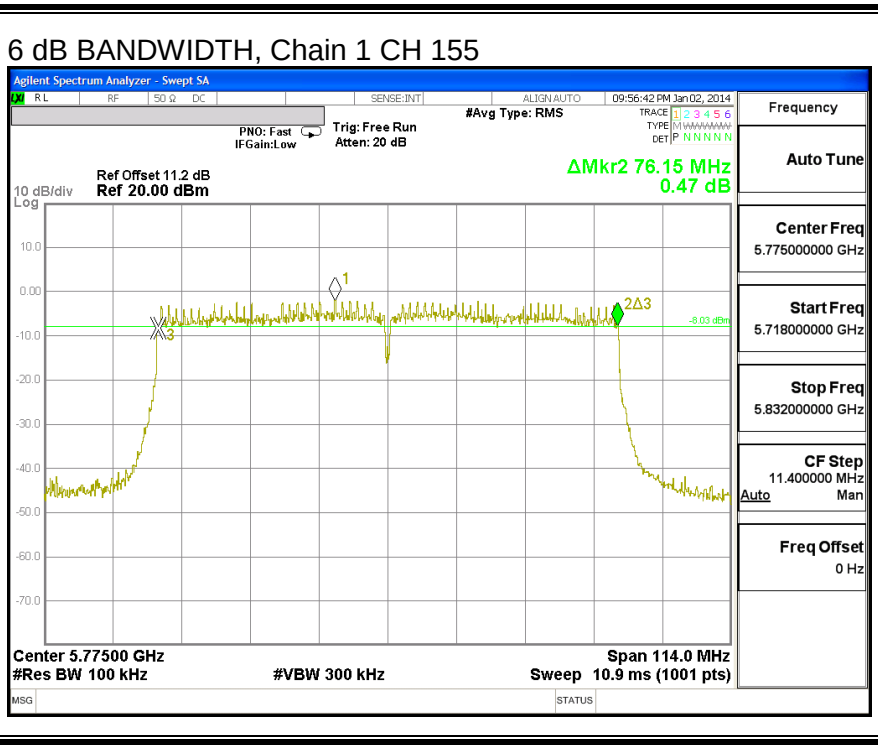
6 dB BANDWIDTH, Chain 0

6 dB BANDWIDTH, Chain 0 CH 155



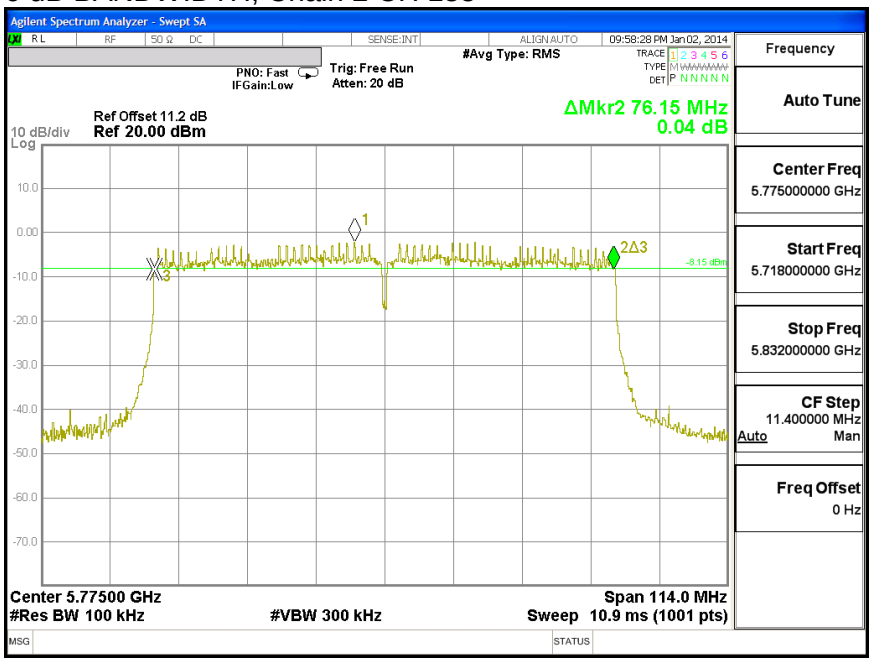
6 dB BANDWIDTH, Chain 1

6 dB BANDWIDTH, Chain 1 CH 155



6 dB BANDWIDTH, Chain 2

6 dB BANDWIDTH, Chain 2 CH 155



7.9.2. 99% BANDWIDTH

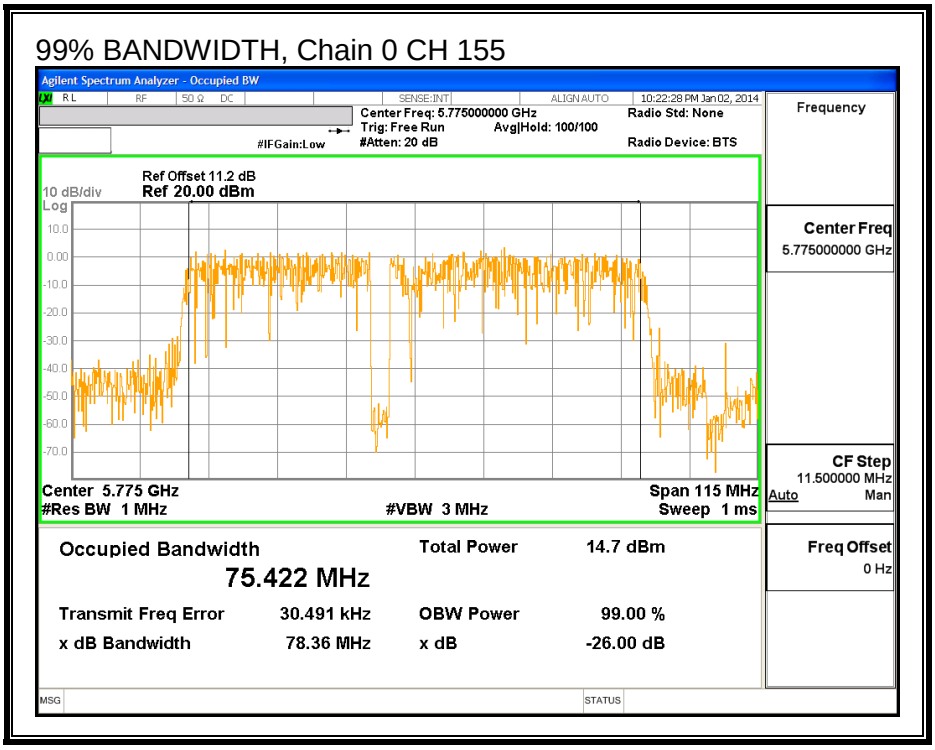
LIMITS

None; for reporting purposes only.

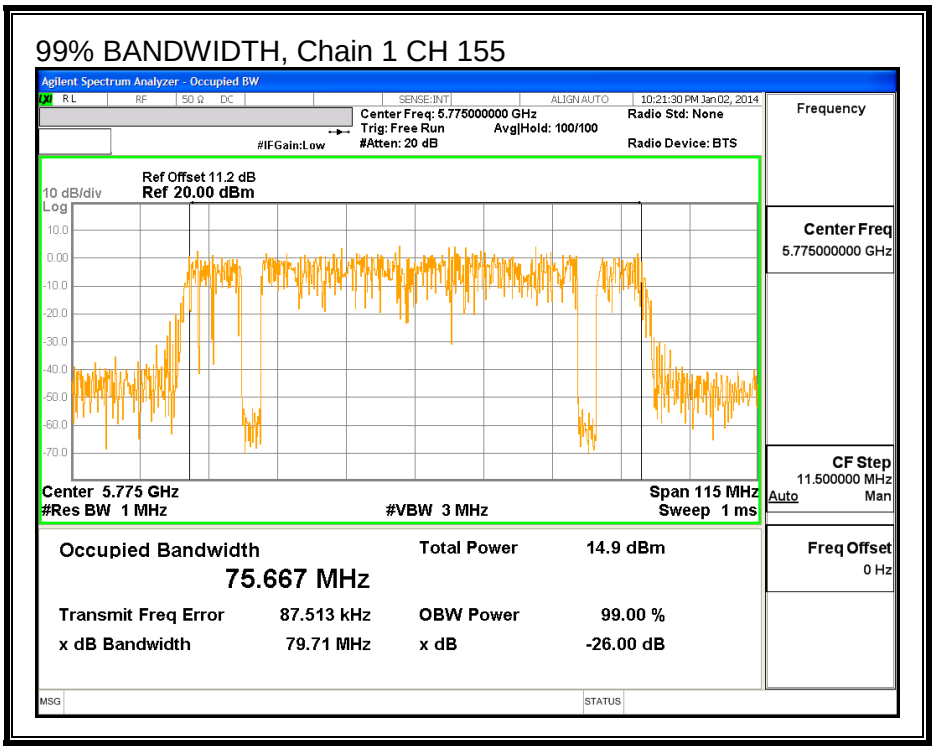
RESULTS

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)	99% BW Chain 2 (MHz)
155	5775	75.4220	75.6670	75.6030

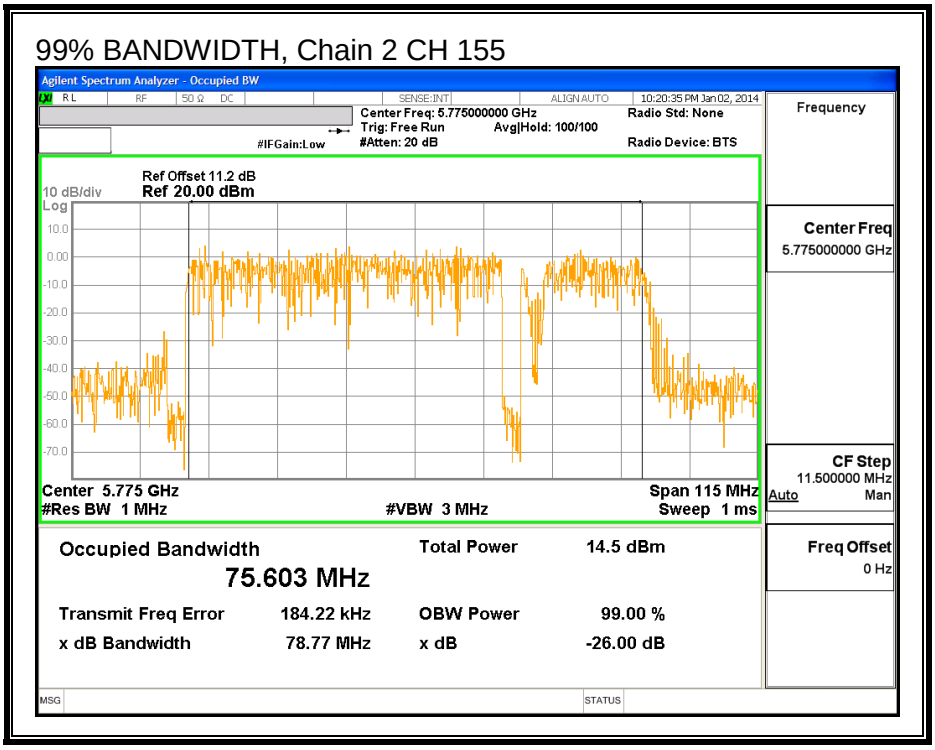
99% BANDWIDTH, Chain 0



99% BANDWIDTH, Chain 1



99% BANDWIDTH, Chain 2



7.9.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Chain 2 Power (dBm)	Total Power (dBm)
155	5775	14.77	15.18	14.84	19.70

7.9.4. OUTPUT POWER

LIMITS

FCC §15.247

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are correlated and the antenna gain is the same for each chain. The directional gain is:

Antenna Gain (dBi)	10 * Log (3 chains) (dB)	Correlated Chains Directional Gain (dBi)
3.16	4.77	7.93

RESULTS

Limits

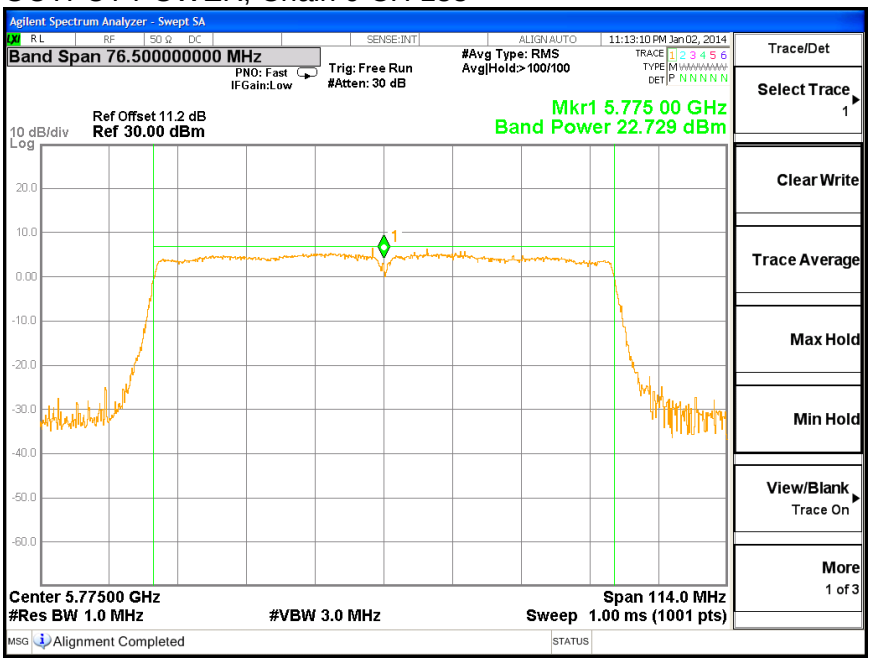
Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
155	5775	7.93	28.07	30	36	28.07

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
155	5775	22.729	23.265	22.864	27.73	28.07	-0.34

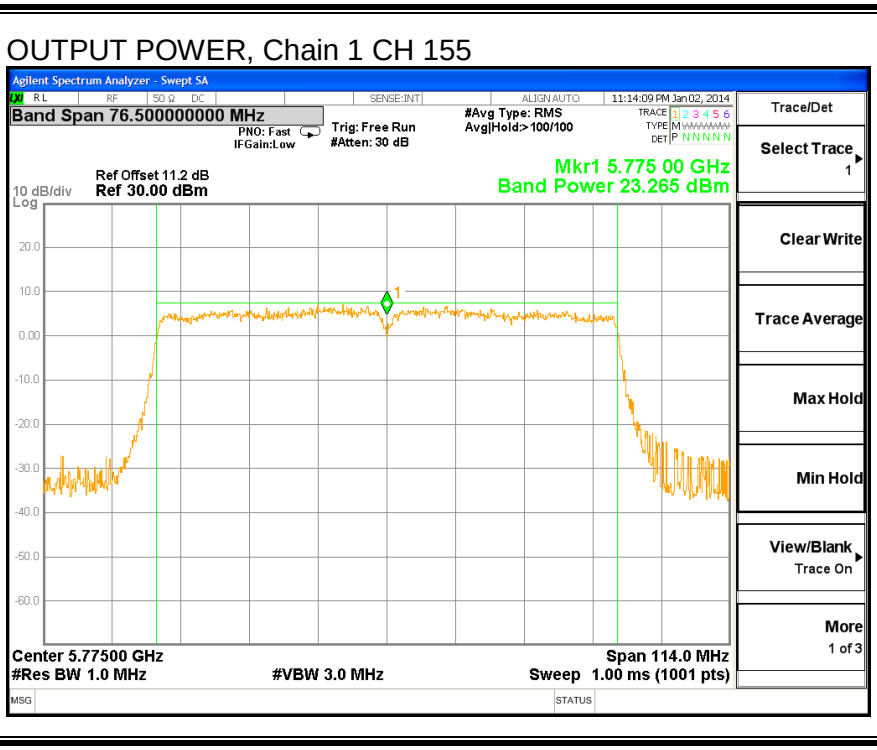
OUTPUT POWER, Chain 0

OUTPUT POWER, Chain 0 CH 155



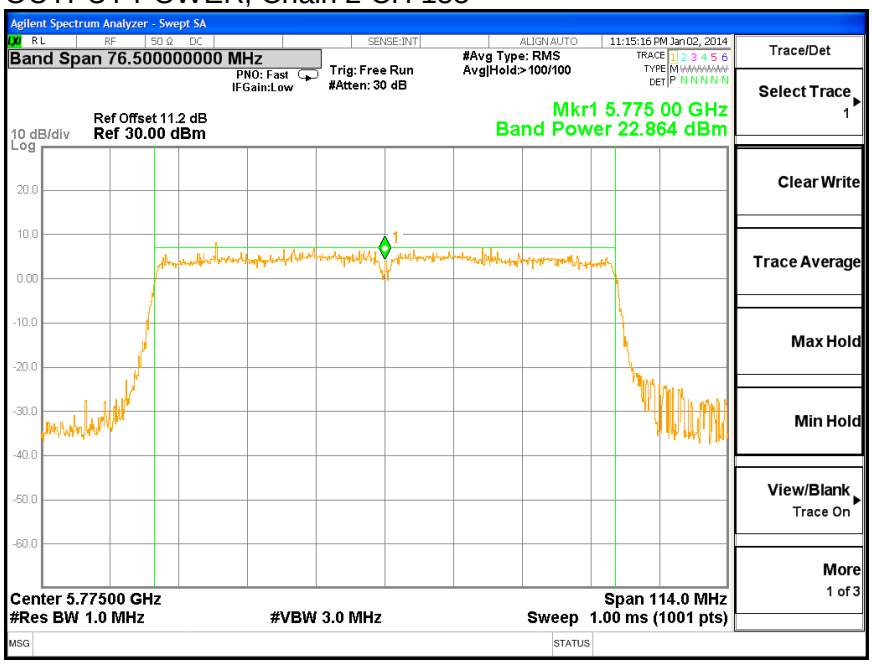
OUTPUT POWER, Chain 1

OUTPUT POWER, Chain 1 CH 155



OUTPUT POWER, Chain 2

OUTPUT POWER, Chain 2 CH 155



7.9.5. PSD

LIMITS

FCC §15.247

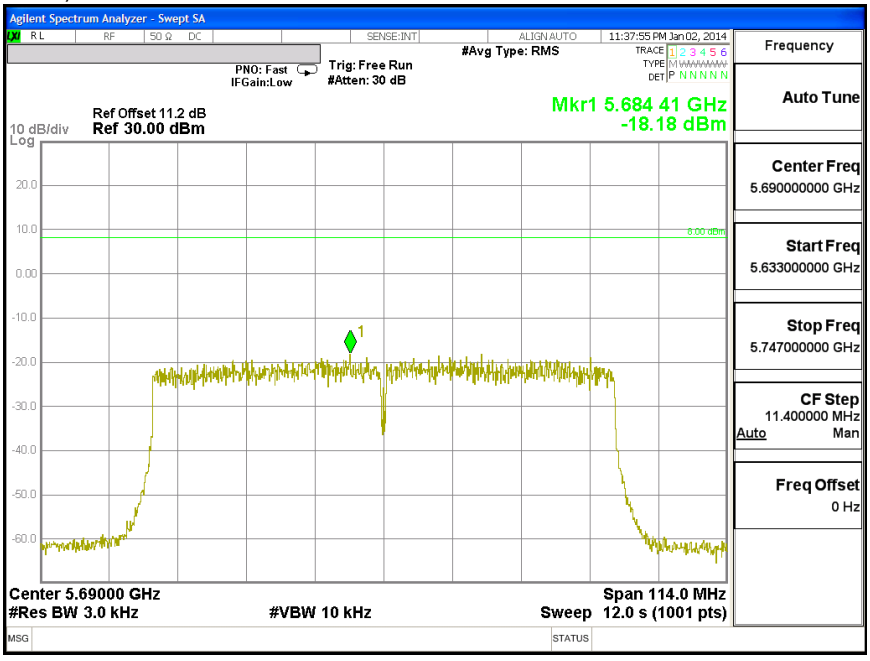
RESULTS

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Chain 2 Meas (dBm)	Total PSD (dBm)	Limit (dBm)	Margin (dB)
155	5775	-18.18	-16.39	-16.92	-12.33	8.0	-20.3

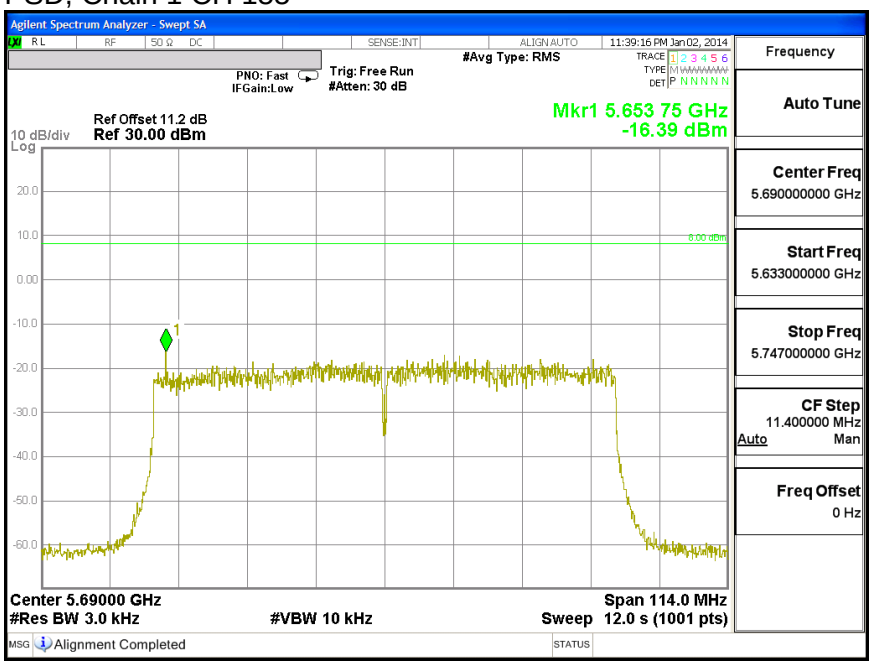
PSD, Chain 0

PSD, Chain 0 CH 155



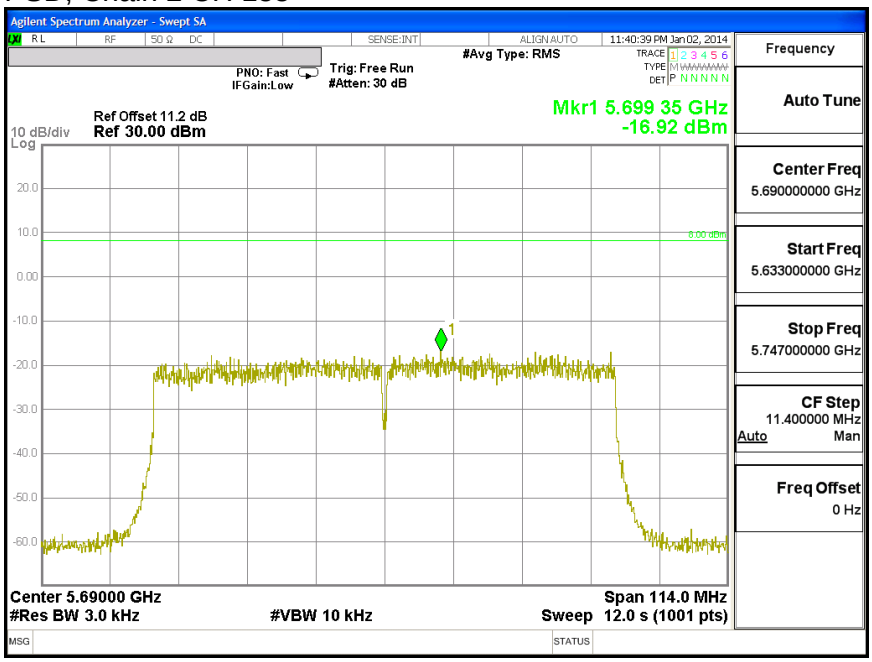
PSD, Chain 1

PSD, Chain 1 CH 155



PSD, Chain 2

PSD, Chain 2 CH 155



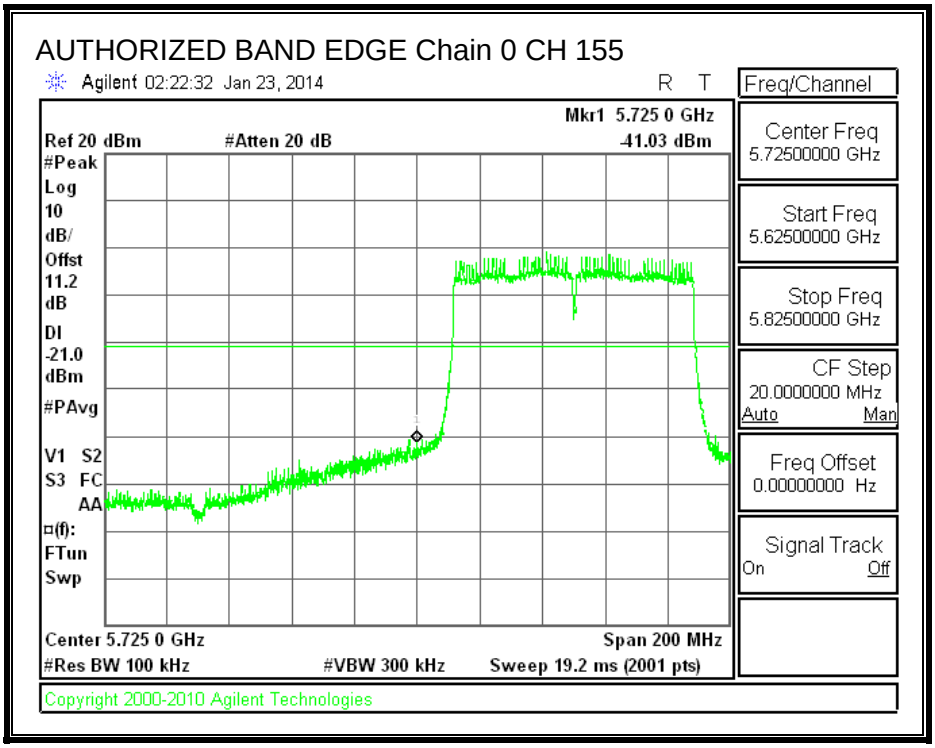
7.9.6. OUT-OF-BAND EMISSIONS

LIMITS

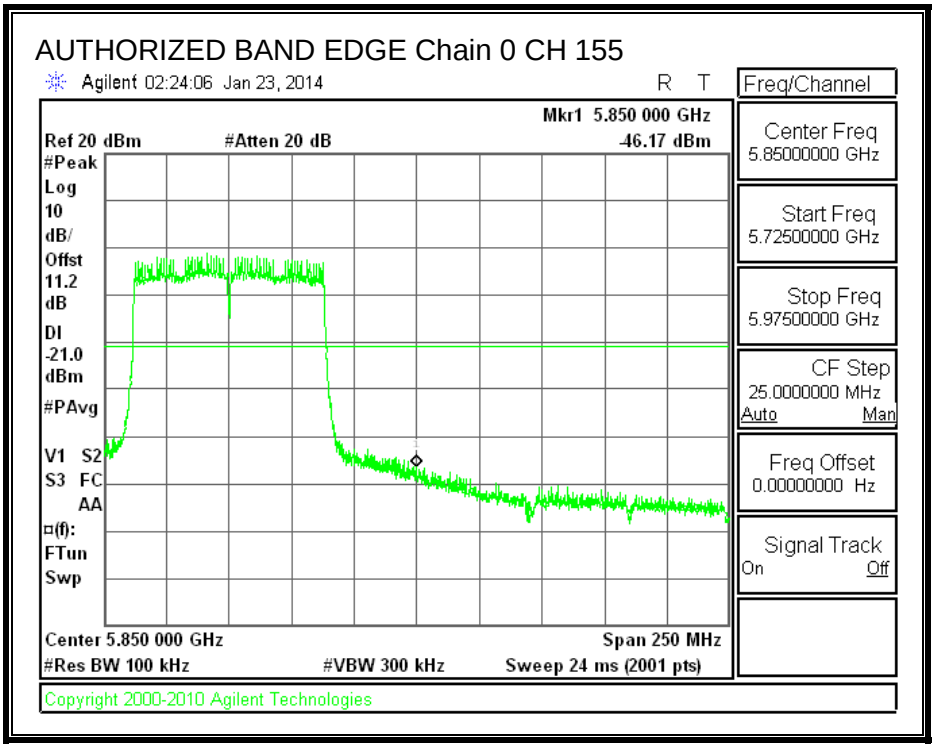
FCC §15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

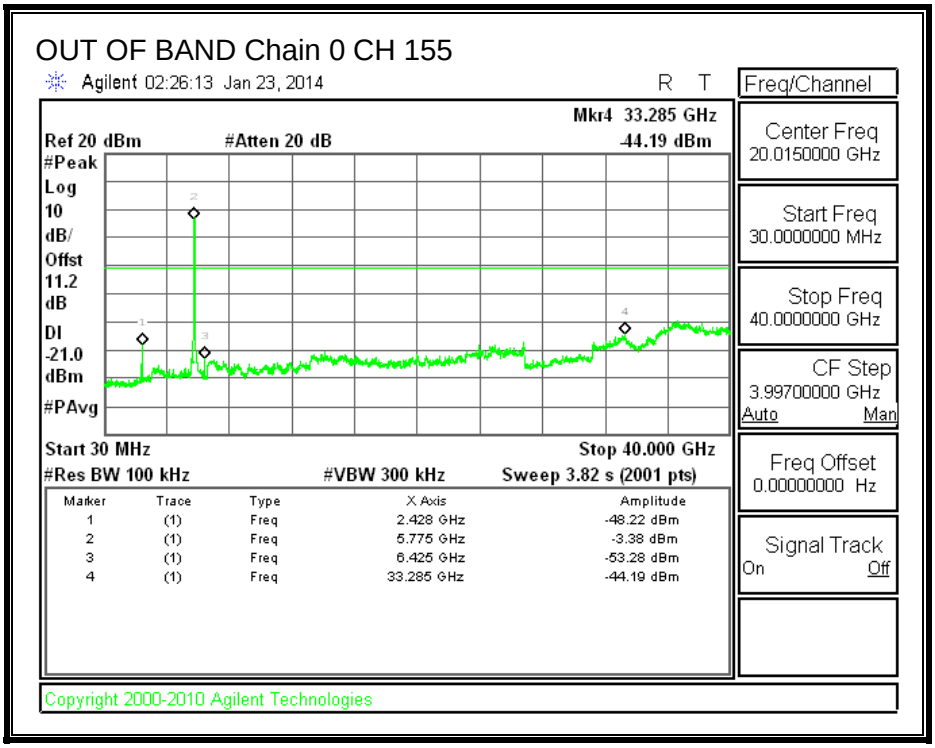
LOW END BANDEDGE, Chain 0,



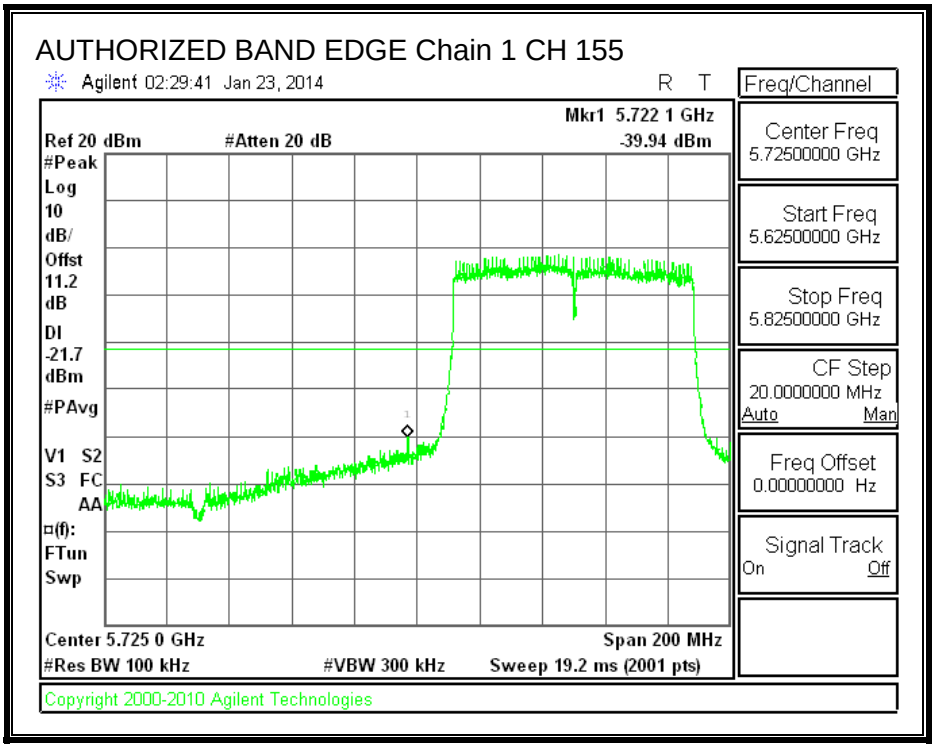
HIGH END BANDEDGE, Chain 0



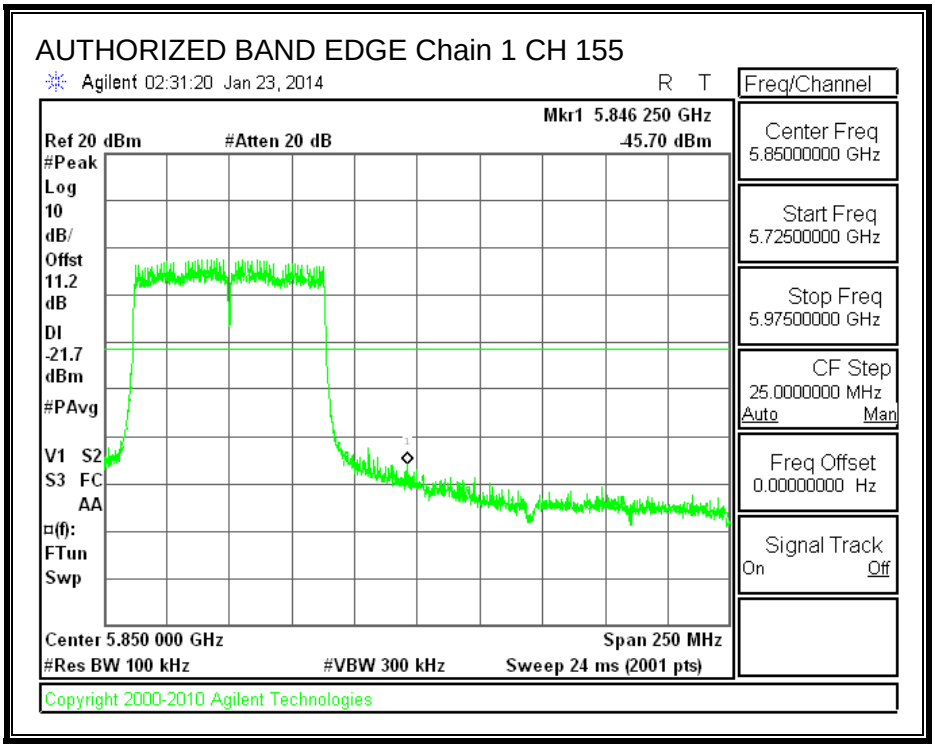
OUT-OF-BAND EMISSIONS, Chain 0



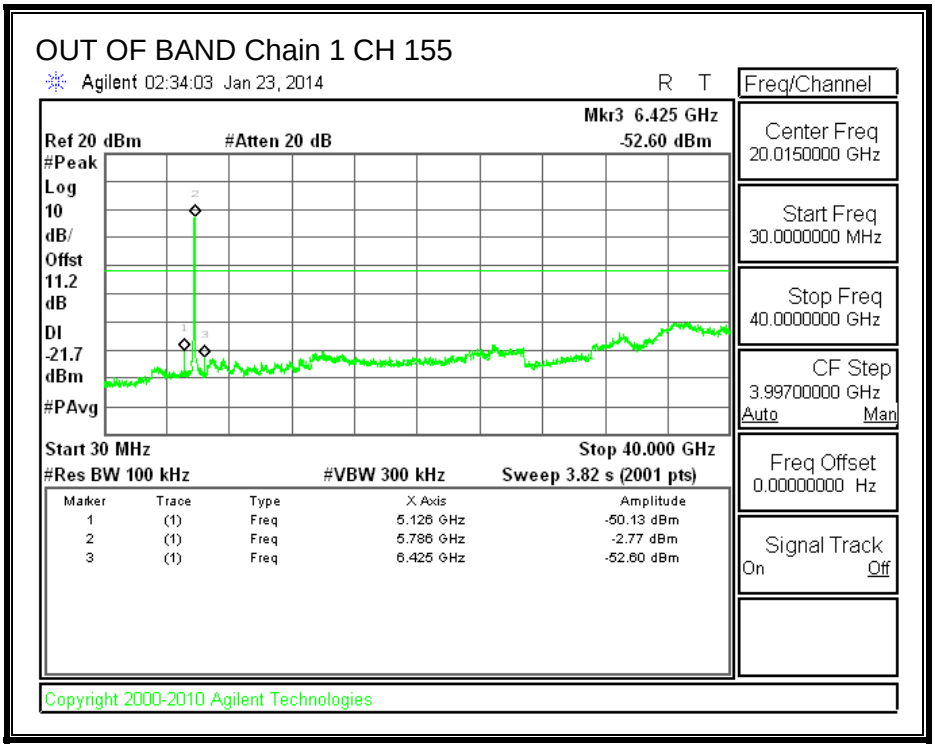
LOW END BANDEDGE, Chain 1



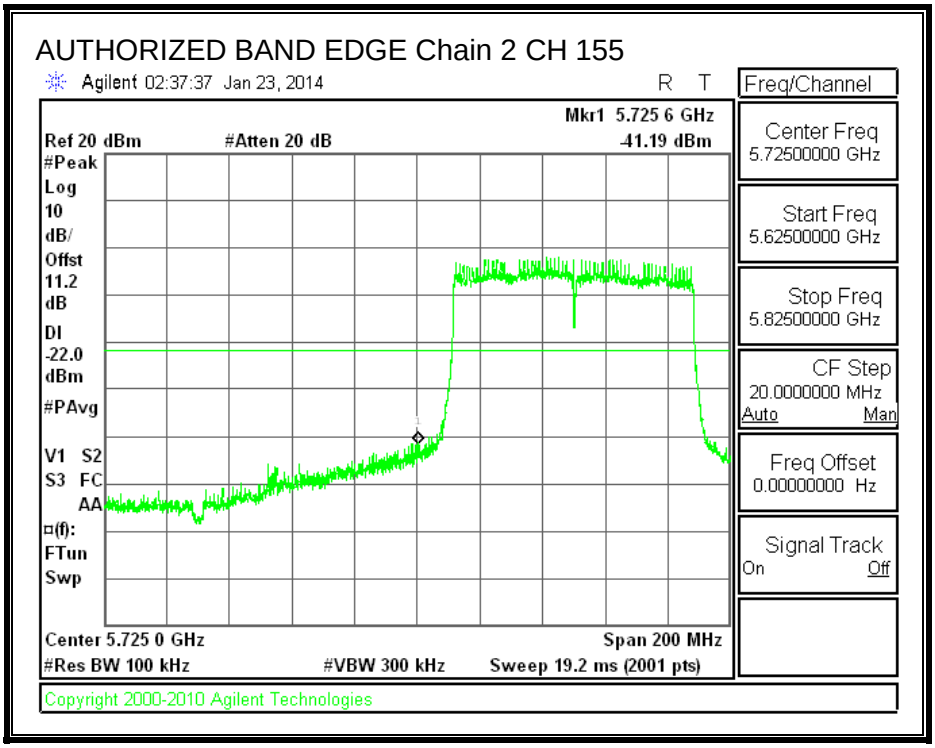
HIGH CHANNEL BANDEDGE, Chain 1



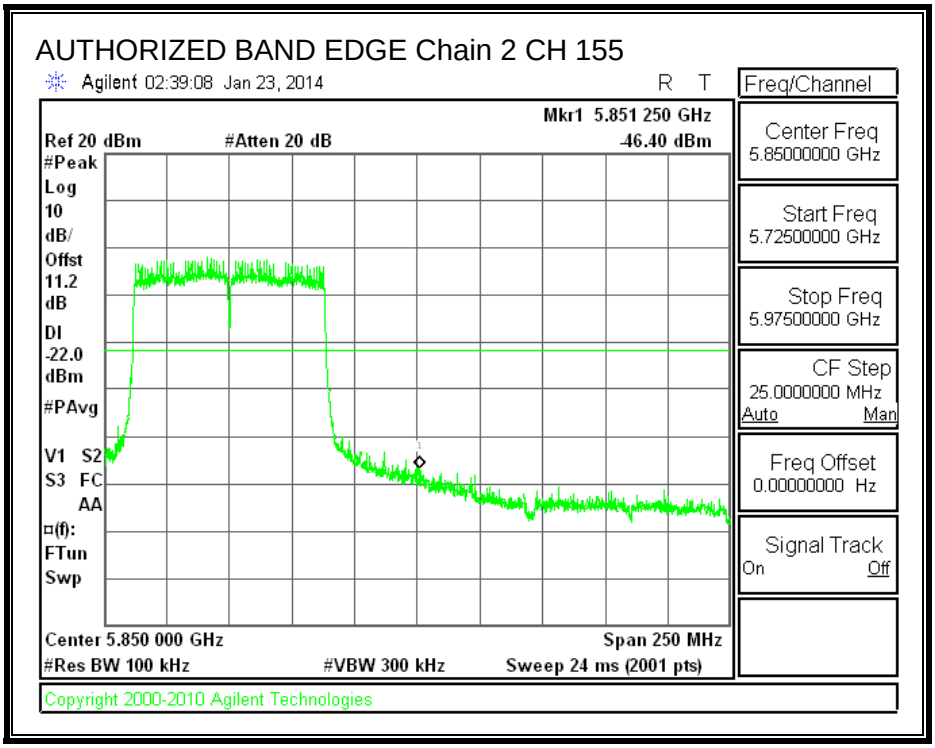
OUT-OF-BAND EMISSIONS, Chain 1



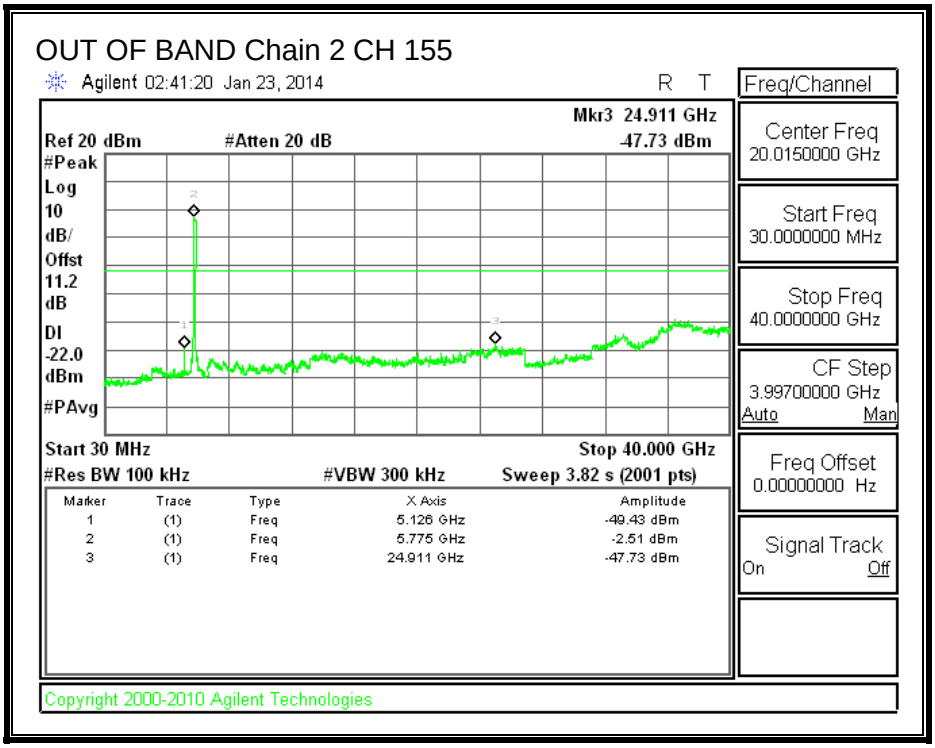
LOW END BANDEDGE, Chain 2



HIGH CHANNEL BANDEDGE, Chain 2



OUT-OF-BAND EMISSIONS, Chain 2



7.10. 802.11ac 80 3TX SDM MODE IN THE 5.8 GHz BAND

7.10.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

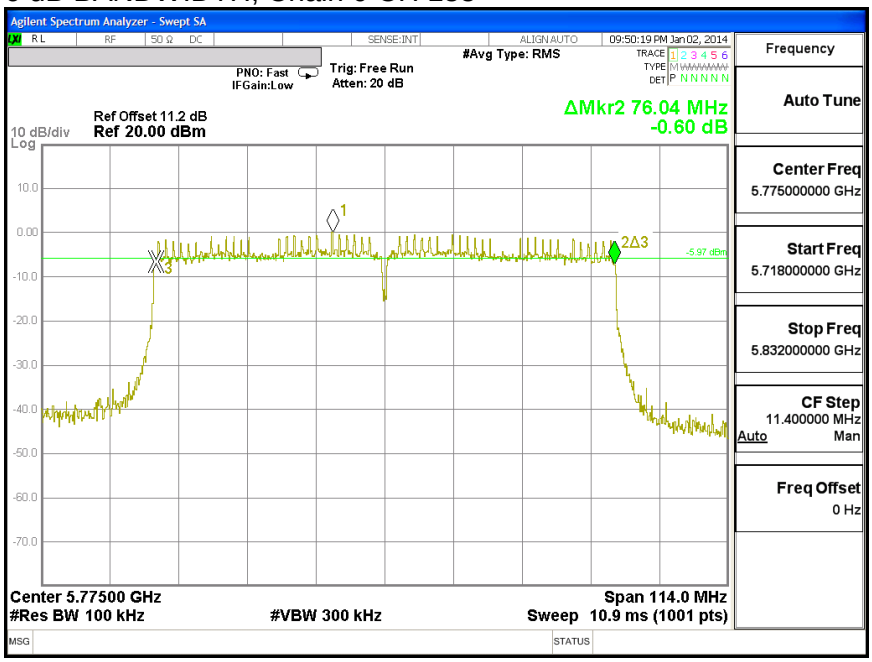
The minimum 6 dB bandwidth shall be at least 500 kHz.

RESULTS

Channel	Frequency (MHz)	6 dB BW Chain 0 (MHz)	6 dB BW Chain 1 (MHz)	6 dB BW Chain 2 (MHz)	Minimum Limit (MHz)
155	5775	76.040	76.380	76.150	0.5

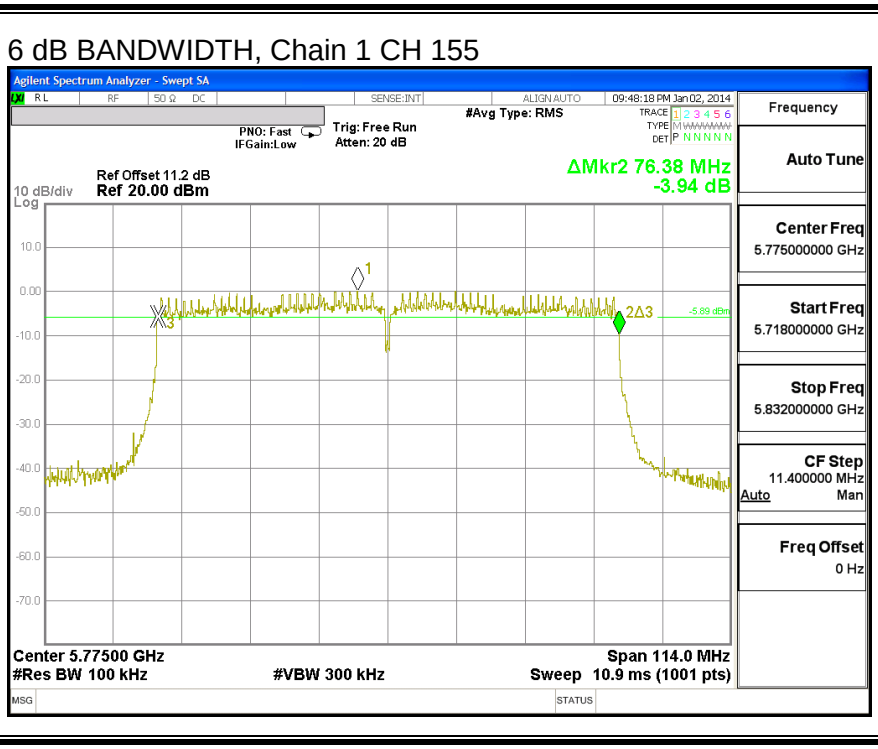
6 dB BANDWIDTH, Chain 0

6 dB BANDWIDTH, Chain 0 CH 155



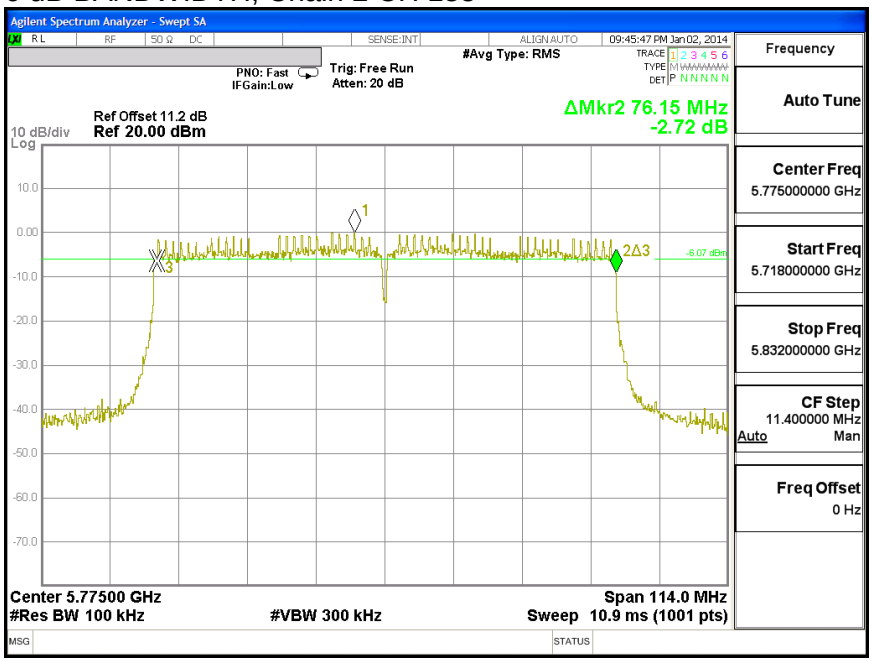
6 dB BANDWIDTH, Chain 1

6 dB BANDWIDTH, Chain 1 CH 155



6 dB BANDWIDTH, Chain 2

6 dB BANDWIDTH, Chain 2 CH 155



7.10.2. 99% BANDWIDTH

LIMITS

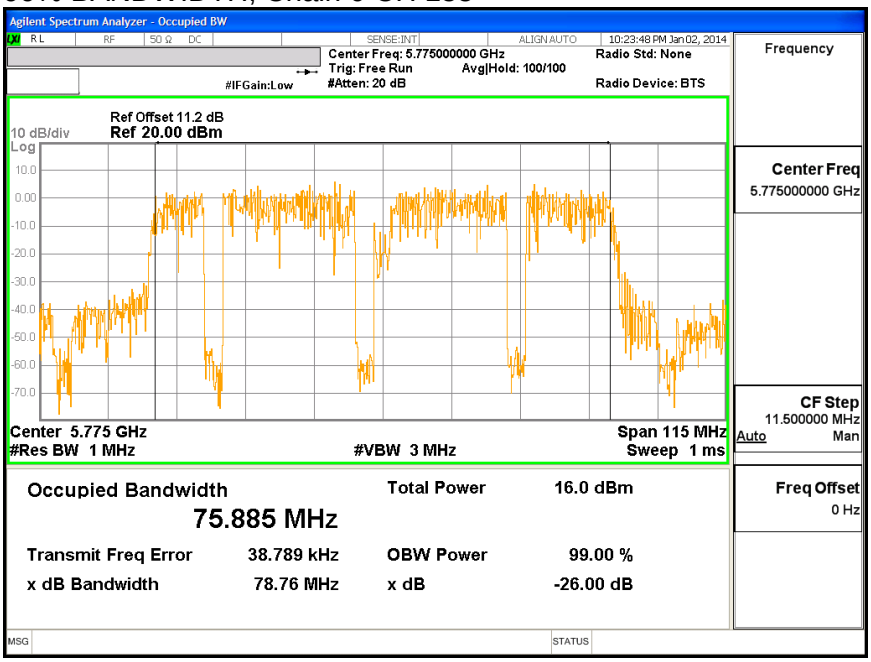
None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)	99% BW Chain 2 (MHz)
155	5775	75.885	75.554	75.872

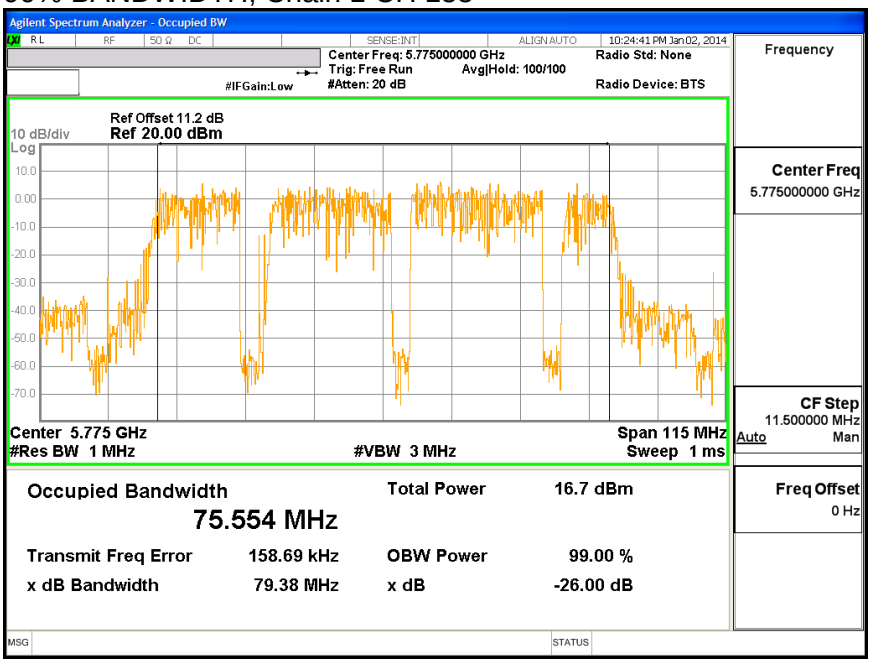
99% BANDWIDTH, Chain 0

99% BANDWIDTH, Chain 0 CH 155



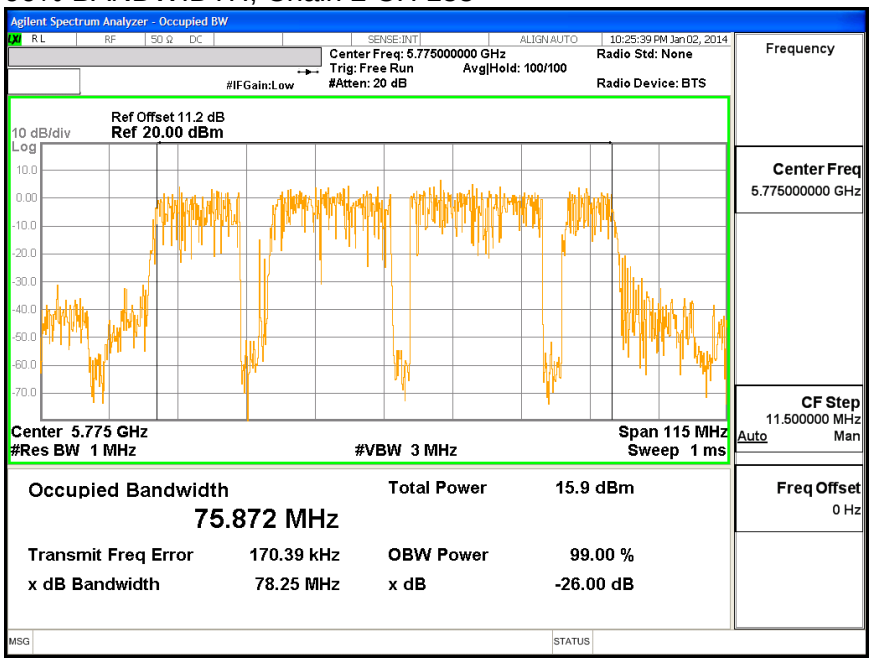
99% BANDWIDTH, Chain 1

99% BANDWIDTH, Chain 1 CH 155



99% BANDWIDTH, Chain 2

99% BANDWIDTH, Chain 2 CH 155



7.10.3. AVERAGE POWER

LIMITS

None; for reporting purposes only.

RESULTS

Channel	Frequency (MHz)	Chain 0 Power (dBm)	Chain 1 Power (dBm)	Chain 2 Power (dBm)	Total Power (dBm)
155	5775	16.25	16.69	16.48	21.25

7.10.4. OUTPUT POWER

LIMITS

FCC §15.247

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

The TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain.

RESULTS

Limits

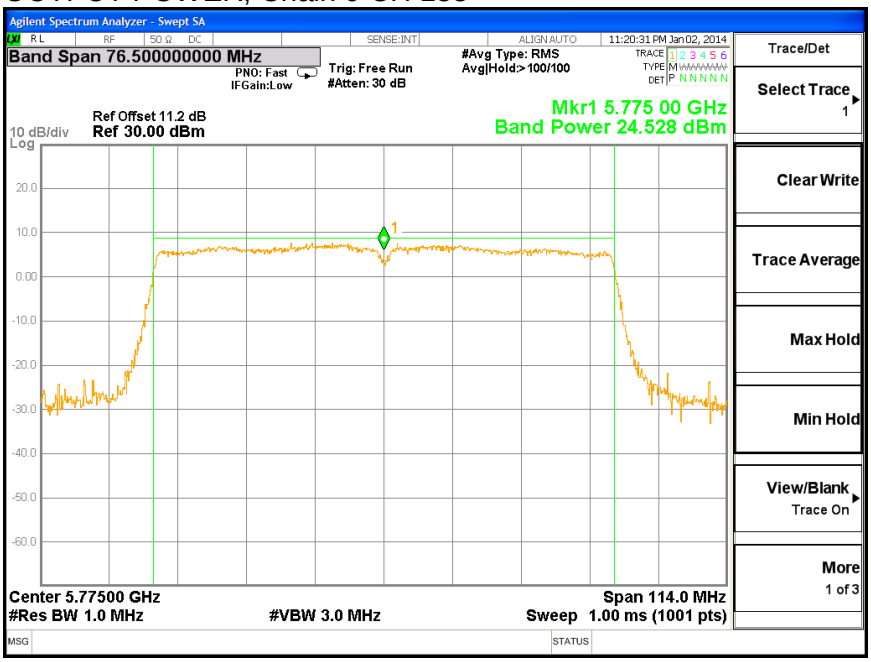
Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max Power (dBm)
155	5775	3.16	30.00	30	36	30.00

Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Margin (dB)
155	5775	24.528	25.021	24.820	29.57	30.00	-0.43

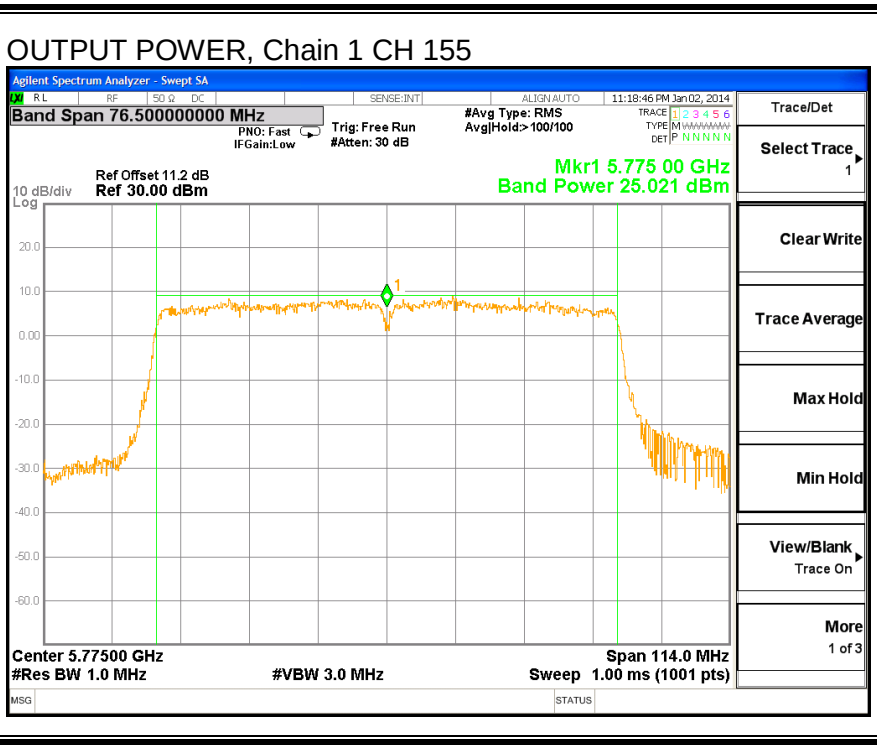
OUTPUT POWER, Chain 0

OUTPUT POWER, Chain 0 CH 155



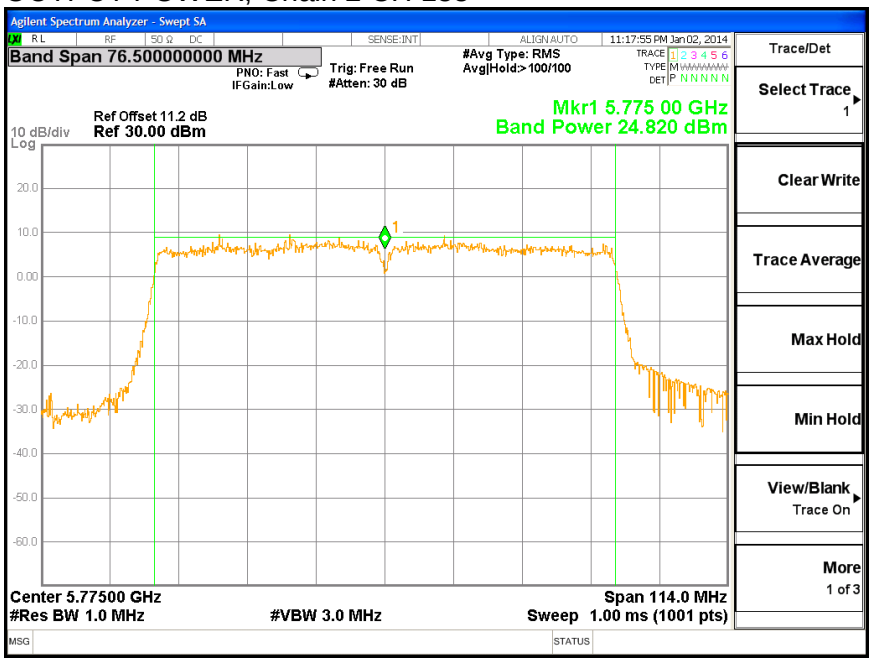
OUTPUT POWER, Chain 1

OUTPUT POWER, Chain 1 CH 155



OUTPUT POWER, Chain 2

OUTPUT POWER, Chain 2 CH 155



7.10.5. PSD

LIMITS

FCC §15.247

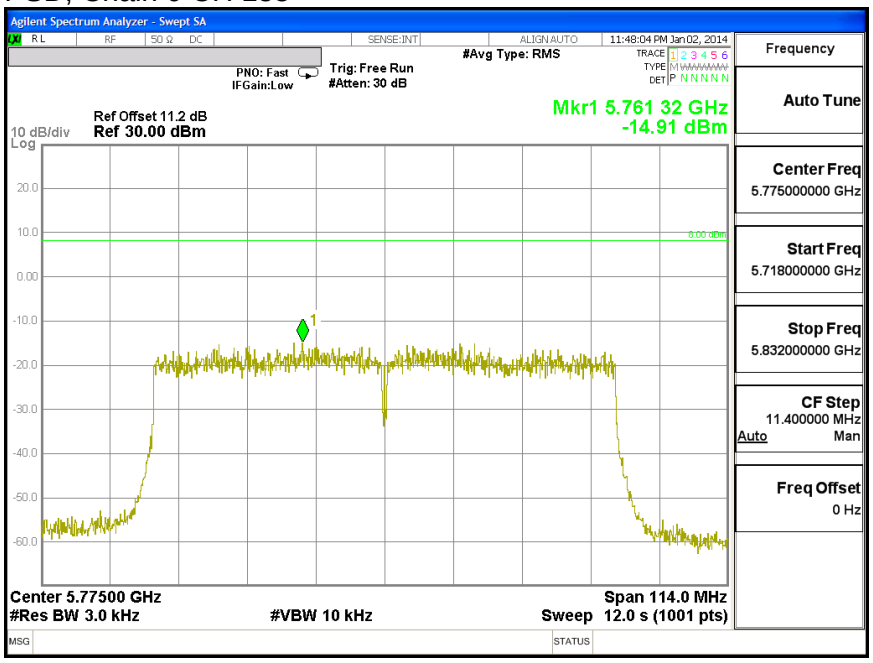
RESULTS

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas (dBm)	Chain 1 Meas (dBm)	Chain 2 Meas (dBm)	Total PSD (dBm)	Limit (dBm)	Margin (dB)
155	5775	-14.91	-14.63	-14.32	-9.84	8.0	-17.8

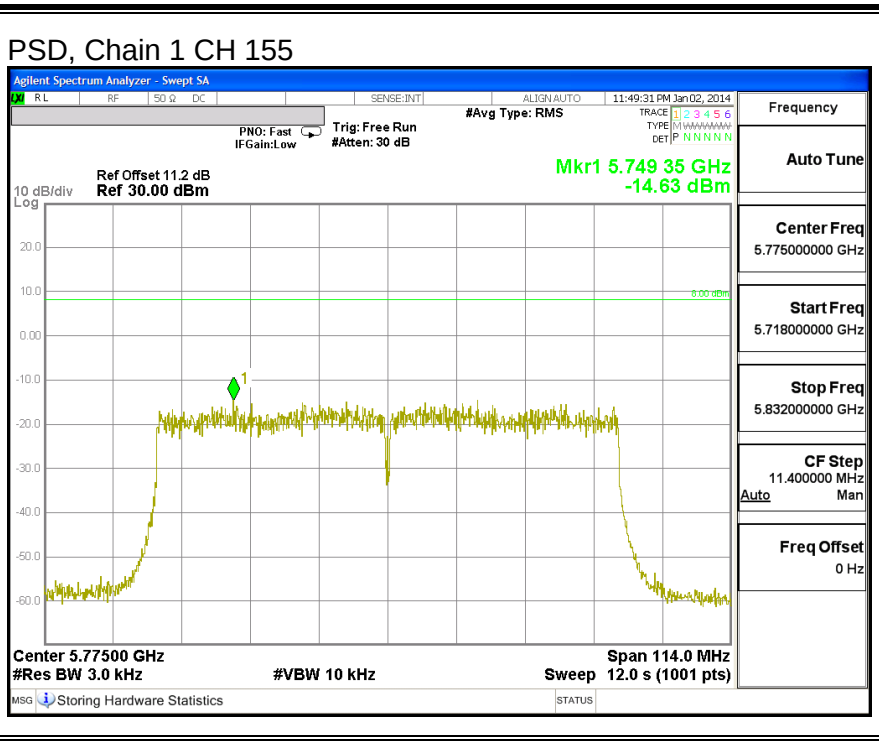
PSD, Chain 0

PSD, Chain 0 CH 155



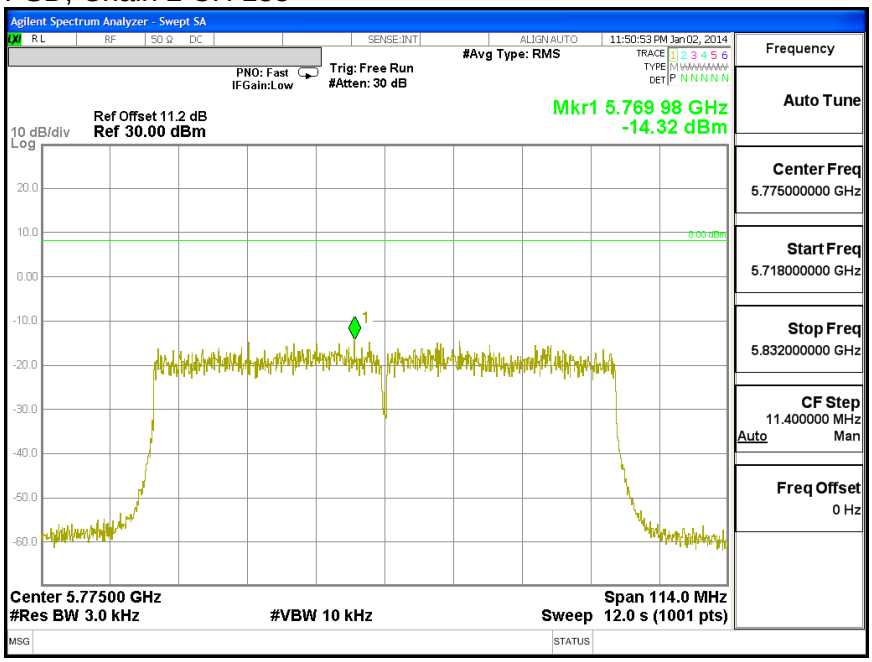
PSD, Chain 1

PSD, Chain 1 CH 155



PSD, Chain 2

PSD, Chain 2 CH 155



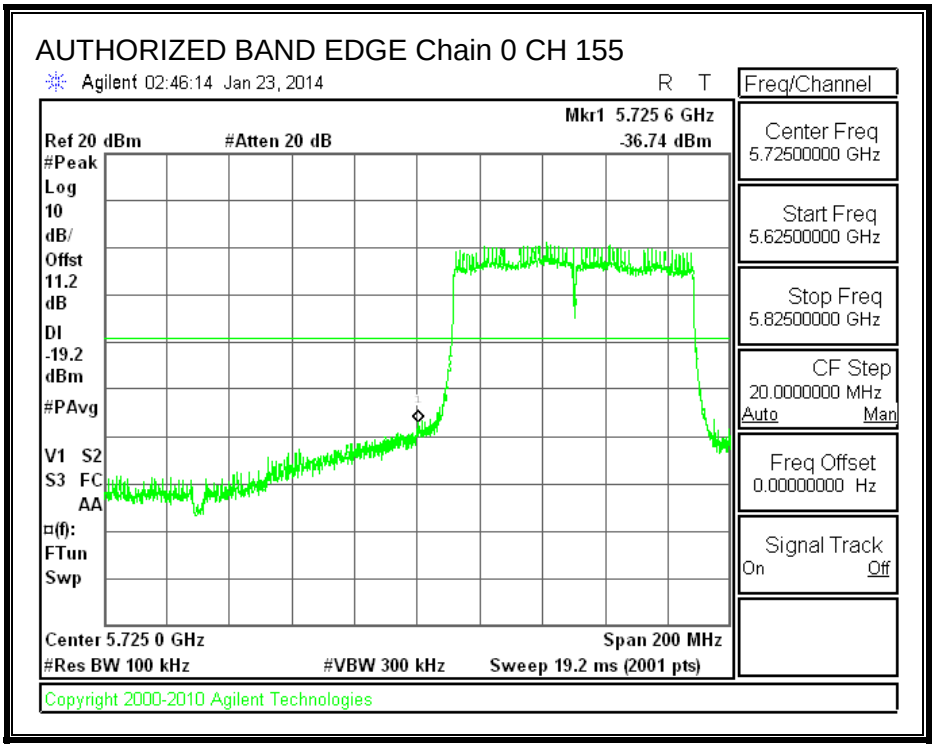
7.10.6. OUT-OF-BAND EMISSIONS

LIMITS

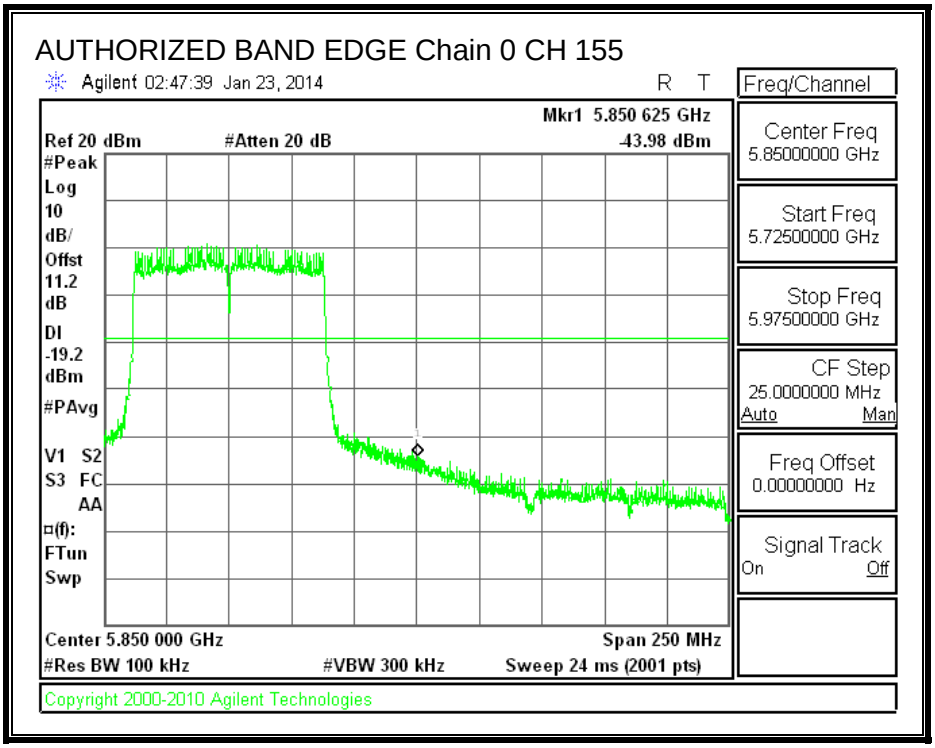
FCC §15.247 (d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

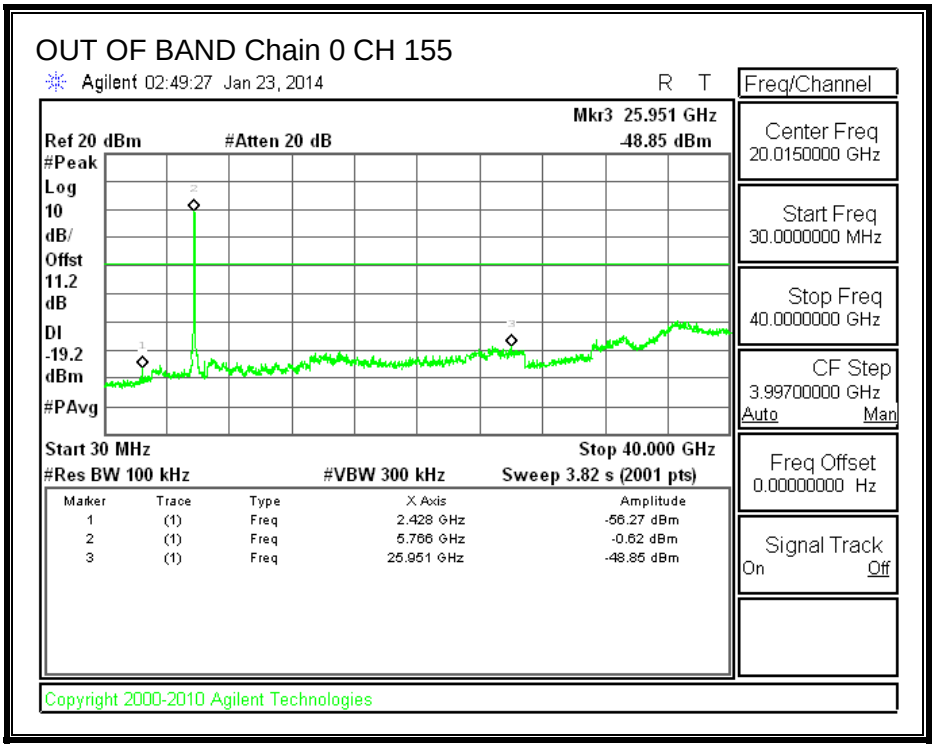
LOW END BANDEDGE, Chain 0,



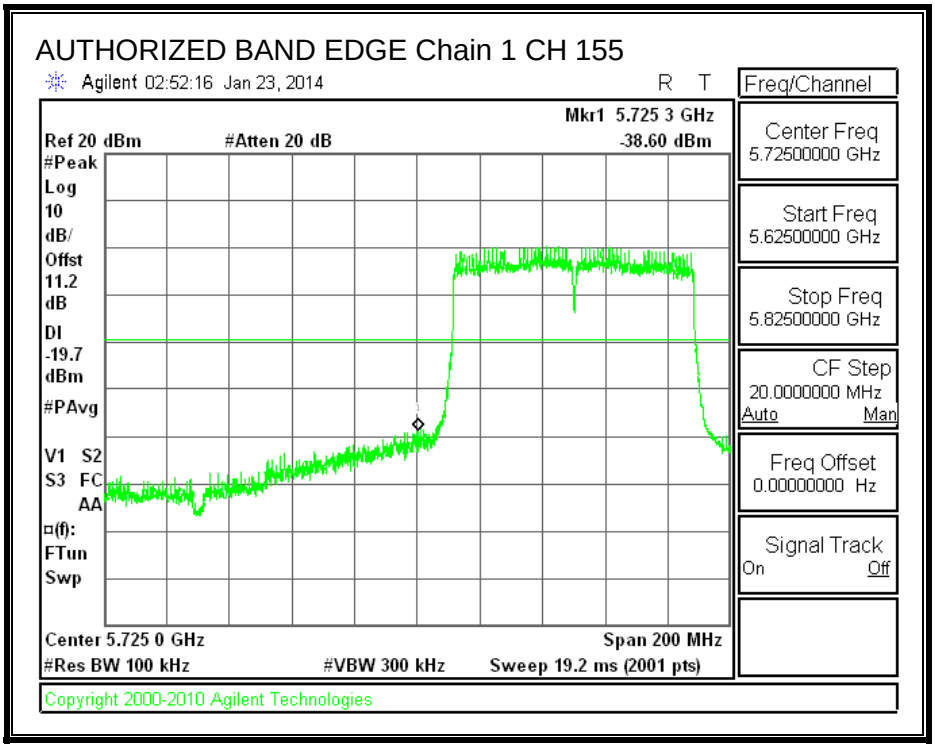
HIGH END BANDEDGE, Chain 0



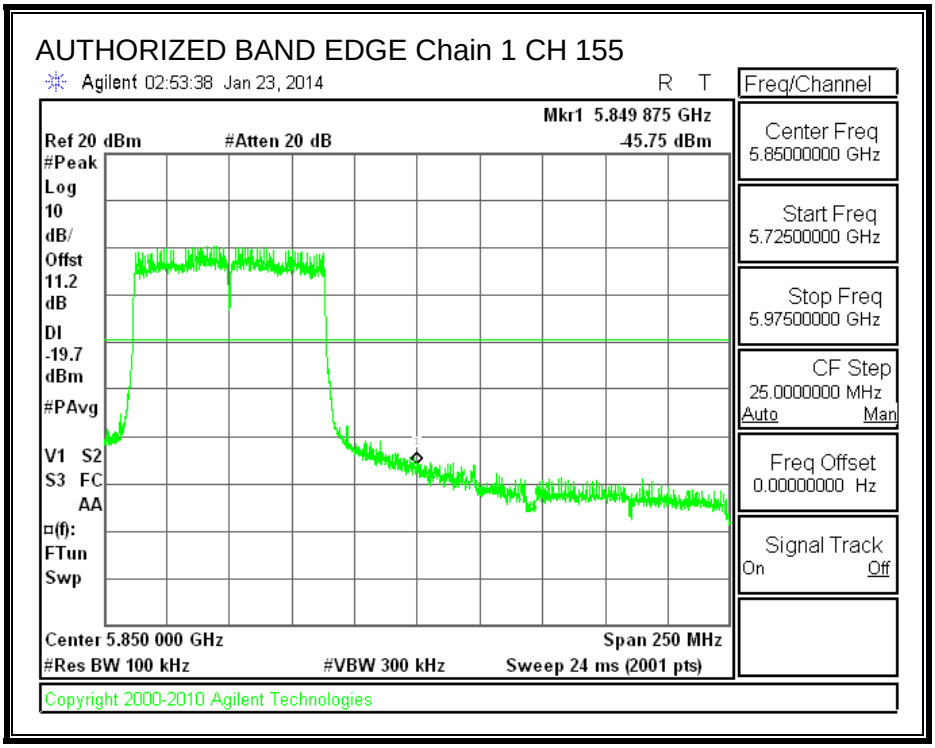
OUT-OF-BAND EMISSIONS, Chain 0



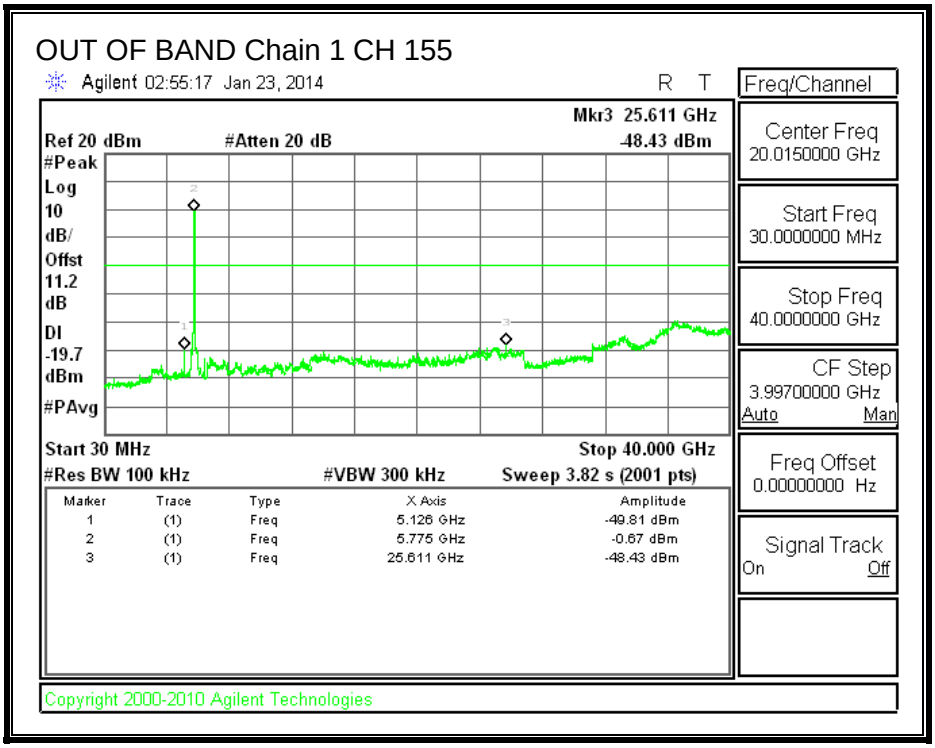
LOW END BANDEDGE, Chain 1



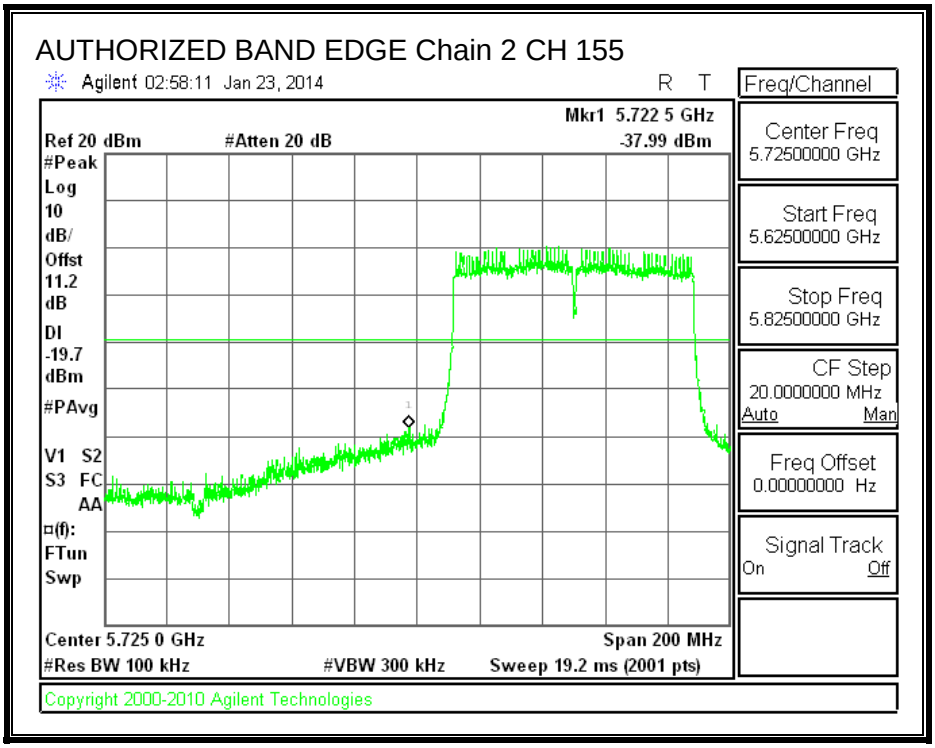
HIGH CHANNEL BANDEDGE, Chain 1



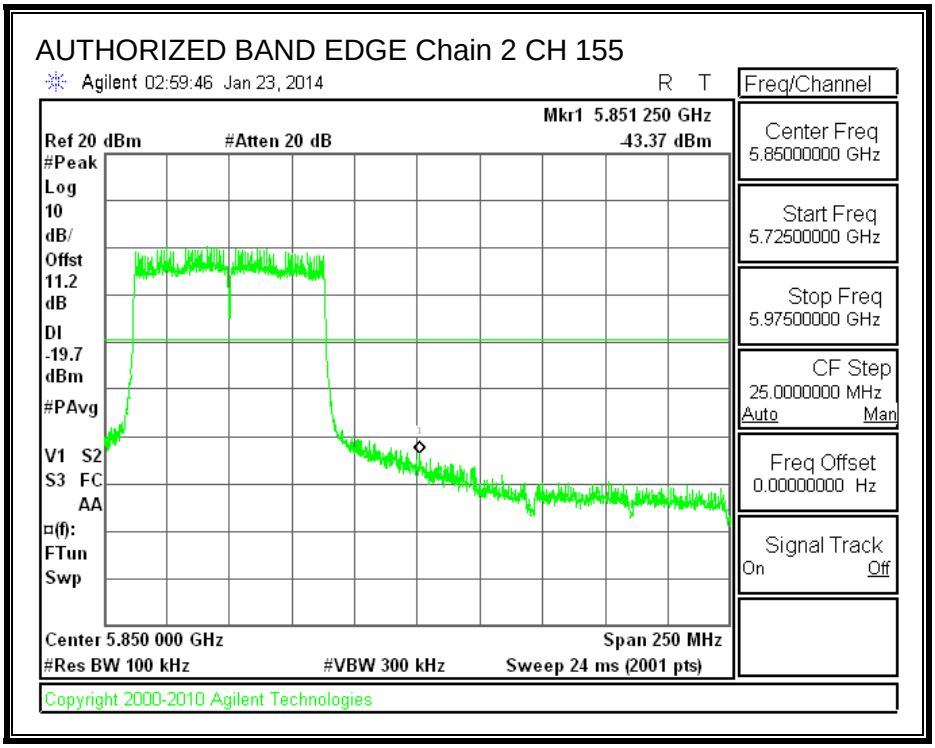
OUT-OF-BAND EMISSIONS, Chain 1



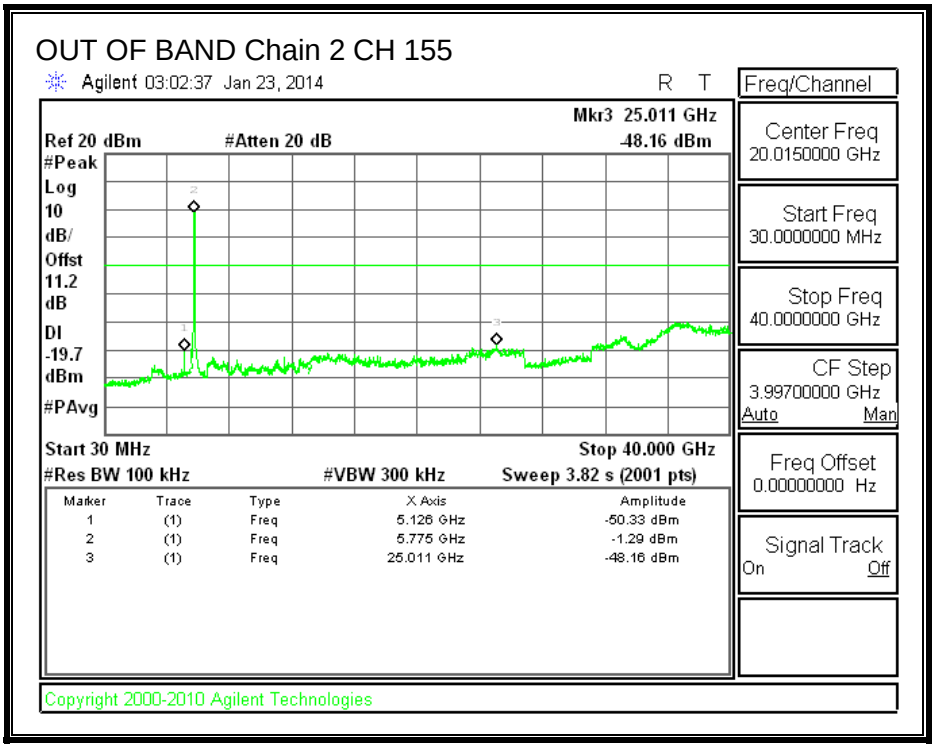
LOW END BANDEDGE, Chain 2



HIGH CHANNEL BANDEDGE, Chain 2



OUT-OF-BAND EMISSIONS, Chain 2



8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 1 MHz for peak measurements and as applicable for average measurements.

The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

8.2. TRANSMITTER ABOVE 1 GHz

8.2.1. 802.11a SISO MODE IN THE 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

CH 149 DATA

Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Fltr/Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.374	63.54	PK	32.4	-30.8	0	65.14	-	-	74	-8.86	0-360	100	V
* 2.379	43.46	MAV1	32.4	-30.9	.2	45.16	54	-8.84	-	-	311	118	V
* 2.388	64.04	PK	32.4	-30.7	0	65.74	-	-	74	-8.26	0-360	201	H
* 2.388	51.9	MAV1	32.4	-30.8	.2	53.70	54	-0.30	-	-	309	245	H
* 2.799	50.19	PK	32.9	-30.0	0	53.09	54	-0.91	74	-20.91	0-360	100	V
* 3.981	53.06	PK	33.8	-29.3	0	57.56	-	-	74	-16.44	0-360	100	V
* 3.981	31.3	MAV1	33.8	-29.4	.2	35.90	54	-18.10	-	-	43	188	V
* 3.985	52.11	PK	33.8	-29.3	0	56.61	-	-	74	-17.39	0-360	201	H
* 3.985	31.3	MAV1	33.8	-29.4	.2	35.90	54	-18.10	-	-	43	188	V
* 4.797	44.43	PK	34.4	-27.3	0	51.53	54	-2.47	74	-22.47	0-360	100	V
6.219	49.07	PK	36.0	-26.3	0	58.77	-	-	-	-	0-360	100	V
6.226	46.77	PK	36.0	-26.3	0	56.47	-	-	-	-	0-360	201	H

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5.266	45.68	PK	34.7	-18.1	0	62.28	-	-	-	-	0-360	100	V
5.499	41.23	PK	34.8	-18.2	0	57.83	-	-	-	-	0-360	201	V
5.588	48.50	PK	35	-18	0	65.50	-	-	-	-	0-360	100	V
5.664	50.74	PK	35.1	-18.2	0	67.64	-	-	-	-	0-360	100	V
5.823	42.75	PK	35.4	-17.5	.2	60.85	-	-	-	-	174	146	V
5.910	48.27	PK	35.6	-17.5	0	66.37	-	-	-	-	0-360	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

MAV1 - KDB558074 Option 1 Maximum RMS Average

CH 157 DATA

Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Fltr/Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.382	66.59	PK	32.4	-30.9	0	68.09	-	-	74	-5.91	0-360	201	H
* 2.382	48.86	MAV1	32.4	-30.8	.2	50.66	54	-3.34	-	-	277	213	H
* 2.386	61.77	PK	32.4	-30.8	0	63.37	-	-	74	-10.63	0-360	100	V
* 2.386	43.13	MAV1	32.4	-30.8	.2	44.93	54	-9.07	-	-	224	157	V
* 2.793	49.36	PK	32.9	-29.9	0	52.36	54	-1.64	74	-21.64	0-360	100	V
3.193	60.78	PK	33.3	-30.1	0	63.98	-	-	-	-	0-360	100	V
* 3.978	55.35	PK	33.8	-29.4	0	59.75	-	-	74	-14.25	0-360	201	V
* 3.978	35.15	MAV1	33.8	-29.3	.2	39.85	54	-14.15	-	-	88	136	V
* 4.000	53.42	PK	33.8	-29.3	0	57.92	-	-	74	-16.08	0-360	201	H
* 4.000	34.11	MAV1	33.8	-29.3	.2	38.81	54	-15.19	-	-	245	393	H
6.263	50.01	PK	36	-26.6	0	59.41	-	-	-	-	0-360	100	V
6.265	45.68	PK	36	-26.6	0	55.08	-	-	-	-	0-360	201	H

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5.307	45.39	PK	34.7	-18.4	0	61.69	-	-	-	-	0-360	100	V
5.308	42.43	PK	34.7	-18.4	0	58.73	-	-	-	-	0-360	201	H
5.627	48.49	PK	35.1	-18.2	0	65.39	-	-	-	-	0-360	201	V
5.703	50.57	PK	35.2	-18.2	0	67.57	-	-	-	-	79	177	V
5.864	49.6	PK	35.5	-17.3	0	67.80	-	-	-	-	163	108	V
5.946	46.04	PK	35.6	-17.6	0	64.04	-	-	-	-	0-360	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

MAV1 - KDB558074 Option 1 Maximum RMS Average

CH 165 DATA

Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Fltr/Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.391	72.03	PK1	32.4	-30.7	0	73.73	-	-	74	-0.27	289	236	H
2.393	50.24	MAV1	32.4	-30.7	.2	52.14	54	-1.86	-	-	294	362	H
* 2.385	60.40	PK	32.4	-30.8	0	62.00	-	-	74	-12.00	0-360	201	V
* 2.385	44.40	MAV1	32.4	-30.7	.2	46.30	54	-7.70	-	-	67	193	V
* 2.790	50.75	PK	32.9	-29.9	0	53.75	54	-0.25	74	-20.25	0-360	100	V
3.177	60.70	PK	33.2	-30.2	0	63.70	-	-	-	-	0-360	201	V
* 3.974	56.12	PK	33.8	-29.4	0	60.52	-	-	74	-13.48	0-360	100	V
* 3.974	39.14	MAV1	33.8	-29.4	.2	43.74	54	-10.26	-	-	340	131	V
* 3.987	52.78	PK	33.8	-29.3	0	57.28	-	-	74	-16.72	0-360	201	H
* 3.987	33.03	MAV1	33.8	-29.3	.2	37.73	54	-16.27	-	-	121	120	H
6.317	48.30	PK	35.9	-26.6	0	57.60	-	-	-	-	0-360	100	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/ Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5.338	45.55	PK	34.7	-18.6	0	61.65	-	-	-	-	0-360	100	V
5.663	49.07	PK	35.1	-18.2	0	65.97	-	-	-	-	0-360	100	V
5.748	50.31	PK	35.3	-18	0	67.61	-	-	-	-	90	168	V
5.903	42.21	PK	35.5	-17.4	.2	60.51	-	-	-	-	87	167	V
5.979	47.21	PK	35.7	-17.7	0	65.21	-	-	-	-	0-360	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

MAV1 - KDB558074 Option 1 Maximum RMS Average

8.2.2. 802.11n HT20 SISO MODE IN THE 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

CH 149 DATA

Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/10dB Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5.588	48.24	PK	34.7	-18.8	0	64.14	-	-	-	-	0-360	101	V
5.589	43.98	PK	34.7	-18.8	0	59.88	-	-	-	-	0-360	101	H
5.667	44.78	PK	34.8	-19	0	60.58	-	-	-	-	0-360	101	H
5.669	48.12	PK	34.8	-18.9	.0	64.02	-	-	-	-	0-360	200	V
5.9	46.68	PK	35.2	-19	0	62.88	-	-	-	-	0-360	101	V
5.907	45.23	PK	35.2	-19	0	61.43	-	-	-	-	0-360	101	H

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/6 GHz HPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.225	41.45	PK	35.5	-26.4	0	50.55	-	-	-	-	0-360	199	H
6.225	44.3	PK	35.5	-26.4	0	53.4	-	-	-	-	0-360	101	V

PK - Peak detector

CH 157 DATA

Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/10dB Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5.627	48.42	PK	34.8	-18.9	0	64.32	-	-	-	-	0-360	101	V
5.628	42.43	PK	34.8	-18.9	0	58.33	-	-	-	-	0-360	101	H
5.707	43.46	PK	34.9	-18.8	0	59.56	-	-	-	-	0-360	101	H
5.708	47.91	PK	34.9	-18.8	.0	64.01	-	-	-	-	0-360	101	V
5.943	43.83	PK	35.3	-18.8	0	60.33	-	-	-	-	0-360	101	H
5.949	47.18	PK	35.3	-18.8	0	63.68	-	-	-	-	0-360	101	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/6 GHz HPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.268	40.68	PK	35.5	-26.4	0	49.78	-	-	-	-	0-360	101	H
6.268	42.78	PK	35.5	-26.4	0	51.88	-	-	-	-	0-360	101	V

PK - Peak detector

CH 165 DATA

Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/10dB Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5.664	49.42	PK	34.8	-19	0	65.22	-	-	-	-	0-360	101	V
5.665	43.45	PK	34.8	-19	0	59.25	-	-	-	-	0-360	101	H
5.905	49.4	PK	35.2	-19	0	65.6	-	-	-	-	0-360	101	V
5.911	45.86	PK	35.2	-19	.0	62.06	-	-	-	-	0-360	101	H
5.984	43.97	PK	35.3	-18.6	0	60.67	-	-	-	-	0-360	101	H
5.984	46.12	PK	35.3	-18.6	0	62.82	-	-	-	-	0-360	101	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/6GHz HPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.312	43.01	PK	35.6	-26.3	0	52.31	-	-	-	-	0-360	101	V
6.314	41.49	PK	35.6	-26.3	0	50.79	-	-	-	-	0-360	200	H

PK - Peak detector

8.2.3. 802.11n HT20 3TX CDD MODE IN THE 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

CH 149 DATA

Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/10dB Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5.583	43.09	PK	35	-20.9	0	57.19	-	-	-	-	0-360	200	H
5.584	48.14	PK	35	-20.9	0	62.24	-	-	-	-	0-360	199	V
5.66	48.69	PK	35.2	-21.2	0	62.69	-	-	-	-	0-360	101	V
5.667	42.96	PK	35.2	-21.2	.0	56.96	-	-	-	-	0-360	200	H
5.9	48	PK	35.6	-20.6	0	63	-	-	-	-	0-360	101	V
5.908	44.28	PK	35.7	-20.5	0	59.48	-	-	-	-	0-360	200	H

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/6 GHz HPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.225	43.4	PK	35.9	-29.7	0	49.6	-	-	-	-	0-360	101	V

PK - Peak detector

CH 157 DATA

Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/10dB Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5.629	48.94	PK	35.1	-21	0	63.04	-	-	-	-	0-360	101	V
5.633	43.47	PK	35.1	-21	0	57.57	-	-	-	-	0-360	101	H
5.698	48.41	PK	35.3	-21.3	0	62.41	-	-	-	-	0-360	199	V
5.707	42.66	PK	35.3	-21.4	.0	56.56	-	-	-	-	0-360	101	H
5.863	43.19	PK	35.6	-20.8	0	57.99	-	-	-	-	0-360	101	H
5.864	47.72	PK	35.6	-20.8	0	62.52	-	-	-	-	0-360	199	V
5.95	47.72	PK	35.7	-20.5	0	62.92	-	-	-	-	0-360	101	V
5.952	43.37	PK	35.7	-20.5	0	58.57	-	-	-	-	0-360	101	H

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/6 GHz HPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.27	42.03	PK	35.9	-29.3	0	48.63	-	-	-	-	0-360	101	V

PK - Peak detector

CH 165 DATA

Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/10dB Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5.664	47.34	PK	35.2	-21.2	0	61.34	-	-	-	-	0-360	101	V
5.672	43.9	PK	35.2	-21.3	0	57.8	-	-	-	-	0-360	101	H
5.742	42.64	PK	35.4	-21.4	0	56.64	-	-	-	-	0-360	101	H
5.744	47.51	PK	35.4	-21.4	.0	61.51	-	-	-	-	0-360	101	V
5.908	43.31	PK	35.7	-20.5	0	58.51	-	-	-	-	0-360	101	H
5.909	47.31	PK	35.7	-20.4	0	62.61	-	-	-	-	0-360	101	V
5.983	44.05	PK	35.8	-20.3	0	59.55	-	-	-	-	0-360	101	H
5.984	47.82	PK	35.8	-20.3	0	63.32	-	-	-	-	0-360	199	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/6 GHz HPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.313	41.77	PK	35.9	-28.6	0	49.07	-	-	-	-	0-360	101	V

PK - Peak detector

8.2.4. 802.11n HT20 3TX SDM MODE IN THE 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

CH 149 DATA

Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/10dB Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5.259	43.59	PK	34.4	-19.2	0	58.79	-	-	-	-	0-360	200	V
5.585	43.35	PK	34.7	-18.9	0	59.15	-	-	-	-	0-360	200	H
5.589	48.02	PK	34.7	-18.8	0	63.92	-	-	-	-	0-360	101	V
5.665	48.32	PK	34.8	-19	.0	64.12	-	-	-	-	0-360	200	V
5.666	44.25	PK	34.8	-19	0	60.05	-	-	-	-	0-360	101	H
5.904	49.52	PK	35.2	-19	0	65.72	-	-	-	-	0-360	200	V
5.908	44.95	PK	35.2	-19	0	61.15	-	-	-	-	0-360	200	H

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/6 GHz HPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.225	39.61	PK	35.5	-26.4	0	48.71	-	-	-	-	0-360	199	H
6.225	44.31	PK	35.5	-26.4	0	53.41	-	-	-	-	0-360	101	V

PK - Peak detector

CH 157 DATA

Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ 10dB Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5.625	42.33	PK	34.8	-18.8	0	58.33	-	-	-	-	0-360	101	H
5.634	48.38	PK	34.8	-18.9	0	64.28	-	-	-	-	0-360	200	V
5.699	49.28	PK	34.8	-18.8	0	65.28	-	-	-	-	0-360	101	V
5.709	43.37	PK	34.9	-18.8	.0	59.47	-	-	-	-	0-360	101	H
5.859	47.38	PK	35.2	-18.6	0	63.98	-	-	-	-	0-360	101	V
5.865	43.95	PK	35.2	-18.7	0	60.45	-	-	-	-	0-360	199	H
5.939	49.15	PK	35.3	-18.8	0	65.65	-	-	-	-	0-360	200	V
5.945	44	PK	35.3	-18.8	0	60.5	-	-	-	-	0-360	199	H

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/6 GHz HPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.269	39.9	PK	35.5	-26.4	0	49	-	-	-	-	0-360	200	H
6.272	43.7	PK	35.5	-26.4	0	52.8	-	-	-	-	0-360	101	V

PK - Peak detector

CH 165 DATA

Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/10dB Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5.664	49.31	PK	34.8	-19	0	65.11	-	-	-	-	0-360	101	V
5.667	42.27	PK	34.8	-19	0	58.07	-	-	-	-	0-360	101	H
5.904	45.65	PK	35.2	-19	0	61.85	-	-	-	-	0-360	200	H
5.912	47.8	PK	35.2	-18.9	0	64.1	-	-	-	-	0-360	199	V
5.981	47.04	PK	35.3	-18.7	0	63.64	-	-	-	-	0-360	101	V
5.986	44.64	PK	35.3	-18.6	0	61.34	-	-	-	-	0-360	101	H

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/6GHz HPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.314	44.22	PK	35.6	-26.3	0	53.52	-	-	-	-	0-360	101	V

PK - Peak detector

8.2.5. 802.11n HT40 SISO MODE IN THE 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

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Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ 5GHz LPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.775	50.03	PK	32.7	-30.3	0	52.43	54	-1.57	-	-	0-360	201	V
2.99	46.63	PK	33.2	-30.3	0	49.53	-	-	-	-	0-360	101	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ 10dB Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5.592	41.7	PK	34.7	-18.8	0	57.6	-	-	-	-	0-360	101	H
5.598	45.07	PK	34.7	-18.8	0	60.97	-	-	-	-	0-360	101	V
5.91	44.65	PK	35.2	-19	0	60.85	-	-	-	-	0-360	200	V
5.922	41.73	PK	35.3	-18.8	0	58.23	-	-	-	-	0-360	200	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ 5GHz LPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.785	40.68	MAv1	32.7	-30.3	.1	43.18	54	-10.82	74	-30.82	290	138	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MAv1 - KDB558074 Option 1 Maximum RMS Average

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Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ 5GHz LPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.799	50.65	PK	32.7	-30.1	0	53.25	54	-.75	-	-	0-360	101	V
2.575	47.93	PK	32.6	-30.4	0	50.13	-	-	-	-	0-360	201	V
2.988	48.02	PK	33.2	-30.3	0	50.92	-	-	-	-	0-360	101	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ 10dB Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5.643	43.37	PK	34.8	-18.9	0	59.27	-	-	-	-	0-360	200	H
5.643	46.45	PK	34.8	-18.9	0	62.35	-	-	-	-	0-360	199	V
5.96	42.46	PK	35.3	-18.8	0	58.96	-	-	-	-	0-360	200	H
5.969	44.82	PK	35.3	-18.7	0	61.42	-	-	-	-	0-360	101	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T120 (dB/m)	Amp/Cbl/ 5GHz LPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.791	37.32	MAv1	32.7	-30.2	.1	39.92	54	-14.08	-	-	300	175	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MAv1 - KDB558074 Option 1 Maximum RMS Average

8.2.6. 802.11n HT40 3TX CDD MODE IN THE 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

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Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Fltr/Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.195	47.97	PK	28.4	-32.6	0	43.77	53.97	-10.2	74	-30.23	0-360	201	H
* 2.496	47.38	PK	32.4	-30.3	0	49.48	53.97	-4.49	74	-24.52	0-360	100	H
* 4.785	41.51	PK	34.4	-27.2	0	48.71	53.97	-5.26	74	-25.29	0-360	201	H
* 1.192	51.06	PK	28.4	-32.6	0	46.86	53.97	-7.11	74	-27.14	0-360	201	V
* 2.785	50.07	PK	32.9	-29.9	0	53.07	53.97	-.9	74	-20.93	0-360	100	V
* 3.787	44.78	PK	33.8	-29.2	0	49.38	53.97	-4.59	74	-24.62	0-360	100	V
* 4.796	42.61	PK	34.4	-27.3	0	49.71	53.97	-4.26	74	-24.29	0-360	100	V
2.982	46.63	PK	33.1	-29.3	0	50.43	53.97	-3.54	74	-23.57	0-360	100	V
* 2.784	35.81	MAv1	32.9	-29.9	.1	38.91	53.97	-15.06	74	-35.09	300	105	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

MAv1 - KDB558074 Option 1 Maximum RMS Average

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Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Fltr/Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.19	49.19	PK	28.4	-32.6	0	44.99	53.97	-8.98	-	-	0-360	201	H
* 2.484	45.78	PK	32.4	-30.3	0	47.88	53.97	-6.09	-	-	0-360	201	H
* 4.798	42.5	PK	34.4	-27.3	0	49.6	53.97	-4.37	-	-	0-360	100	H
* 1.19	49.16	PK	28.4	-32.6	0	44.96	53.97	-9.01	-	-	0-360	100	V
* 2.787	50.65	PK	32.9	-29.9	0	53.65	53.97	-.32	-	-	0-360	100	V
* 4.83	43.1	PK	34.4	-27.8	0	49.7	53.97	-4.27	-	-	0-360	100	V
2.525	47.46	PK	32.5	-30.5	0	49.46	-	-	-	-	0-360	100	H
2.608	47.46	PK	32.6	-30.8	0	49.26	-	-	-	-	0-360	100	H
2.979	45.99	PK	33.1	-29.4	0	49.69	-	-	-	-	0-360	100	V

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/Fltr/Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.786	35.54	MAv1	32.9	-29.9	.1	38.64	53.97	-15.33	74	-35.36	302	115	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

MAv1 - KDB558074 Option 1 Maximum RMS Average

8.2.7. 802.11n HT40 3TX SDM MODE IN THE 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

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Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/5GHz LPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.501	51.05	PK	32.4	-30.3	0	53.15	-	-	-	-	0-360	201	H
2.598	46.1	PK	32.6	-30.2	0	48.5	-	-	-	-	0-360	100	H
* 2.784	43.87	PK	32.9	-29.1	0	47.67	54	-6.33	74	-26.33	0-360	100	H
2.978	40.71	PK	33.1	-29.1	0	44.71	-	-	-	-	0-360	201	H
* 4.793	42.38	PK	34.4	-26.9	0	49.88	-	-	74	-24.12	0-360	201	H
* 4.793	31.1	MAV1	34.4	-27.2	.3	38.6	54	-15.40	-	-	30	251	H
2.501	49.38	PK	32.4	-30.3	0	51.48	-	-	-	-	0-360	201	V
2.626	46.71	PK	32.7	-30.4	0	49.01	-	-	-	-	0-360	201	V
* 2.799	49.6	PK	32.9	-29.3	0	53.2	-	-	74	-20.8	0-360	100	V
* 2.799	31.35	MAV1	32.9	-29.2	.3	35.35	54	-18.65	-	-	122	286	V
2.978	47.42	PK	33.1	-29.1	0	51.42	-	-	-	-	0-360	100	V
* 3.783	44.5	PK	33.8	-28.8	0	49.5	-	-	74	-24.5	0-360	100	V
* 3.783	34.01	MAV1	33.8	-28.8	.3	39.31	54	-14.69	-	-	317	118	V
* 4.796	43.11	PK	34.4	-26.9	0	50.61	-	-	74	-23.39	0-360	100	V
* 4.796	31.24	MAV1	34.4	-27	.3	38.94	54	-15.06	-	-	310	342	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/10dB Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5.599	47.29	PK	35	-18	0	64.29	-	-	-	-	0-360	100	V
5.678	44.7	PK	35.2	-17.4	0	62.5	-	-	-	-	0-360	100	V
5.834	45.81	PK	35.4	-17.3	0	63.91	-	-	-	-	0-360	100	V
5.918	43.25	PK	35.6	-16.8	0	62.05	-	-	-	-	0-360	100	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/6GHz HPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6.346	38.86	PK	35.9	-25.7	0	49.06	-	-	-	-	0-360	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

MAV1 - KDB558074 Option 1 Maximum RMS Average

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Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/5GHz LPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.501	50.35	PK	28.2	-31.6	0	46.95	54	-7.05	74	-27.05	0-360	201	H
2.501	52.67	PK	32.4	-30.3	0	54.77	-	-	-	-	0-360	201	H
2.625	48	PK	32.7	-30.4	0	50.3	-	-	-	-	0-360	201	H
* 2.785	43.38	PK	32.9	-29.1	0	47.18	54	-6.82	74	-26.82	0-360	100	H
* 4.776	40.46	PK	34.4	-27	0	47.86	54	-6.14	74	-26.14	0-360	201	H
* 1.596	47.52	PK	28.9	-31.1	0	45.32	54	-8.68	74	-28.68	0-360	100	V
2.501	50.01	PK	32.4	-30.3	0	52.11	-	-	-	-	0-360	201	V
2.626	47.9	PK	32.7	-30.4	0	50.2	-	-	-	-	0-360	201	V
* 2.788	49.11	PK	32.9	-29.1	0	52.91	-	-	74	-21.09	0-360	100	V
* 2.788	31.35	MAV1	32.9	-29.2	.3	35.35	54	-18.65	-	-	122	286	V
2.979	47.83	PK	33.1	-29.1	0	51.83	-	-	-	-	0-360	100	V
* 3.78	41.82	PK	33.8	-28.8	0	46.82	54	-7.18	74	-27.18	0-360	100	V
* 4.83	43.08	PK	34.4	-27.4	0	50.08	-	-	74	-23.92	0-360	100	V
* 4.83	31.24	MAV1	34.4	-27	.3	38.94	54	-15.06	-	-	310	342	V

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T344 (db/m)	Amp/Cbl/10dB Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
13	5.312	34.93	Avg	34.7	-17.8	.3	52.13	54	-1.87	-	-	0-360	100	V
14	5.64	46.14	PK	35.1	-17.6	0	63.64	-	-	-	-	0-360	100	V
15	5.953	43.43	PK	35.6	-17.1	0	61.93	-	-	-	-	0-360	100	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

MAV1 - KDB558074 Option 1 Maximum RMS Average

8.2.8. 802.11ac 80MHz SISO MODE IN THE 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

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Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/5GHz LPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 1.192	50.35	PK	28.9	-35.2	0	44.05	53.97	-9.92	74	-29.95	0-360	101	H
* 1.199	49.54	PK	29	-35.1	0	43.44	53.97	-10.53	74	-30.56	0-360	201	V
* 1.6	48.16	PK	29.5	-34	0	43.66	53.97	-10.31	74	-30.34	0-360	101	V
* 2.796	50.39	PK	33.2	-32.6	0	50.99	-	-	74	-23.01	0-360	101	V
1.987	44.24	PK	32	-32.9	0	43.34	-	-	-	-	0-360	101	V
2.997	47.87	PK	33.2	-32	0	49.07	-	-	-	-	0-360	101	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/5GHz LPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.8	37.3	MAv1	33.2	-32.5	.3	38.3	53.97	-15.67	-	-	303	157	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MAv1 - KDB558074 Option 1 Maximum RMS Average

8.2.9. 802.11ac 80MHz 3TX CDD MODE IN THE 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

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Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ 5GHz LPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.784	49.2	PK	33.2	-32.5	0	49.9	53.97	-4.07	74	-24.1	0-360	101	V
4	* 1.2	51.45	PK	29	-35.1	0	45.35	53.97	-8.62	74	-28.65	0-360	101	V
3	2.195	48.04	PK	32.3	-33.2	0	47.14	-	-	-	-	0-360	101	V
2	2.973	49.76	PK	33.2	-31.9	0	51.06	-	-	-	-	0-360	101	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ 10dB Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9	* 5.134	41.44	PK	34.6	-21.5	0	54.54	-	-	74	-19.46	0-360	101	V
5	* 5.134	40.04	Avg	34.6	-21.5	.3	53.44	-	-	-	-	0-360	101	V
7	5.619	44.82	PK	35.1	-21.1	0	58.82	-	-	-	-	0-360	101	V
8	5.949	45.2	PK	35.7	-20.5	0	60.4	-	-	-	-	0-360	101	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ 6GHz HPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
6	6.418	41.65	PK	35.8	-29.4	0	48.05	-	-	-	-	0-360	201	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ 5GHz LPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.78	35.98	MAv1	33.2	-32.5	.3	36.98	53.97	-16.99	-	-	264	186	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MAv1 - KDB558074 Option 1 Maximum RMS Average

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ 10dB Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 5.133	34.3	MAv1	34.6	-21.5	.3	47.7	53.97	-6.27	-	-	155	267	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MAv1 - KDB558074 Option 1 Maximum RMS Average

8.2.10. 802.11ac 80MHz 3TX SDM MODE IN THE 5.8 GHz BAND

HARMONICS AND SPURIOUS EMISSIONS

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Trace Markers

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ 5GHz LPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.204	48.62	PK	32.3	-33	0	47.92	53.97	-6.05	74	-26.08	0-360	101	H
* 2.797	51.18	PK	33.2	-32.5	0	51.88	-	-	74	-22.12	0-360	101	V
2.973	46.56	PK	33.2	-31.9	0	47.86	-	-	-	-	0-360	101	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ 10dB Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 5.134	41.31	PK	34.6	-21.5	0	54.41	-	-	74	-19.59	0-360	101	V
* 5.134	39.02	Avg	34.6	-21.5	.3	52.42	-	-	-	-	0-360	101	V
5.606	45.22	PK	35.1	-21	0	59.32	-	-	-	-	0-360	101	V
5.948	45.58	PK	35.7	-20.4	0	60.88	-	-	-	-	0-360	101	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Avg - Video bandwidth < Resolution bandwidth

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ 6GHz HPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8	6.418	43.9	PK	35.8	-29.4	0	50.3	-	-	-	-	0-360	101	V
9	7.059	39.28	PK	36	-28.3	0	46.98	-	-	-	-	0-360	201	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

Radiated Emissions

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ 5GHz LPF	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 2.799	36.36	MAv1	33.2	-32.5	.3	37.36	53.97	-16.61	-	-	266	247	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MAv1 - KDB558074 Option 1 Maximum RMS Average

Frequency (GHz)	Meter Reading (dBuV)	Det	AF T346 (dB/m)	Amp/Cbl/ 10dB Pad	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 5.133	32.4	MAv1	34.6	-21.5	.3	45.8	53.97	-8.17	-	-	50	165	V

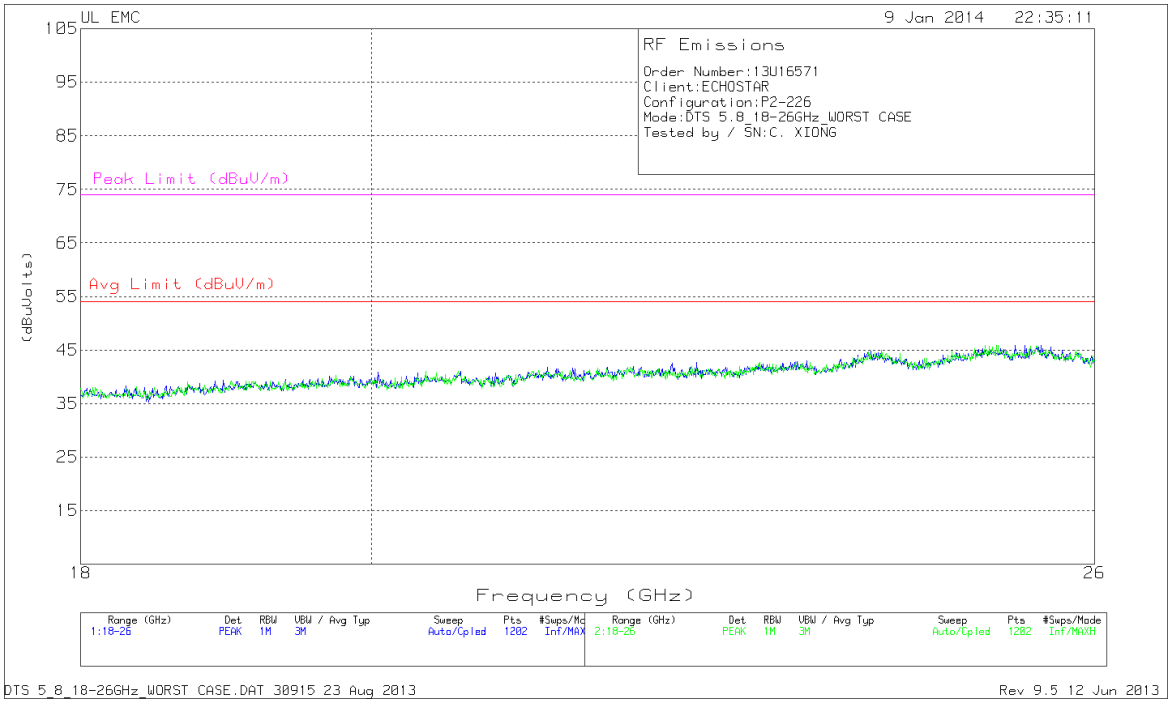
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

MAv1 - KDB558074 Option 1 Maximum RMS Average

8.3. WORST-CASE ABOVE 18 GHz

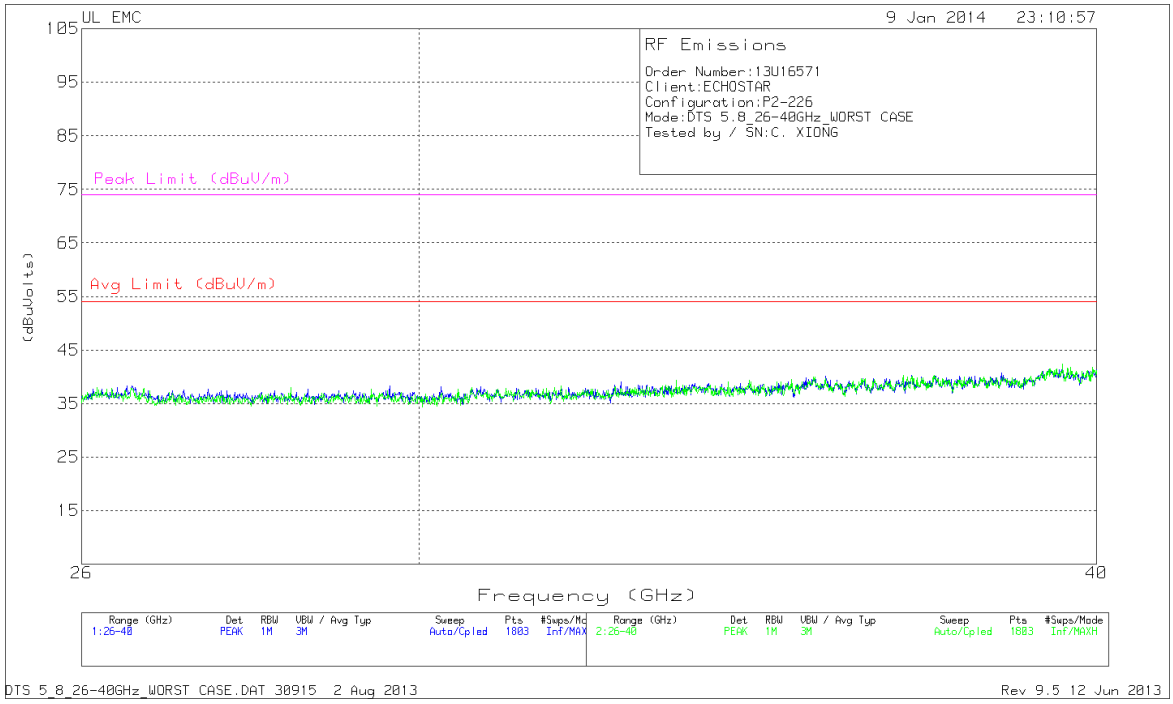
SPURIOUS EMISSIONS 18 TO 26 GHz (WORST-CASE CONFIGURATION)

5.8 GHz BAND HORIZONTAL AND VERTICAL



SPURIOUS EMISSIONS 26 TO 40 GHz (WORST-CASE CONFIGURATION)

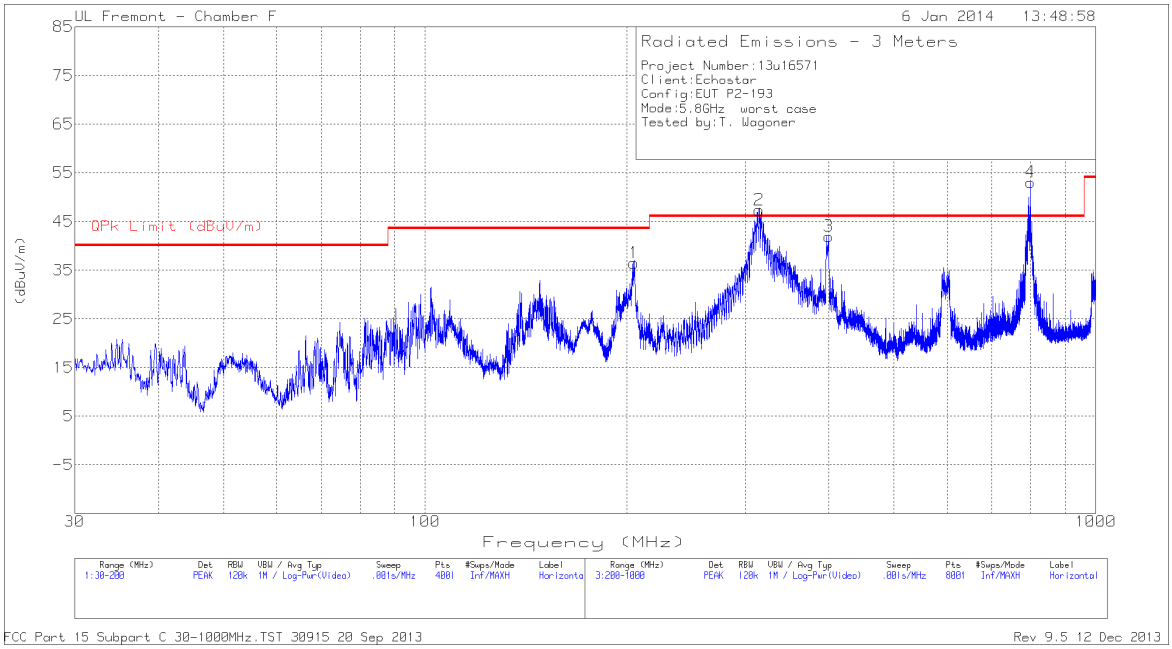
5.8 GHz BAND HORIZONTAL AND VERTICAL



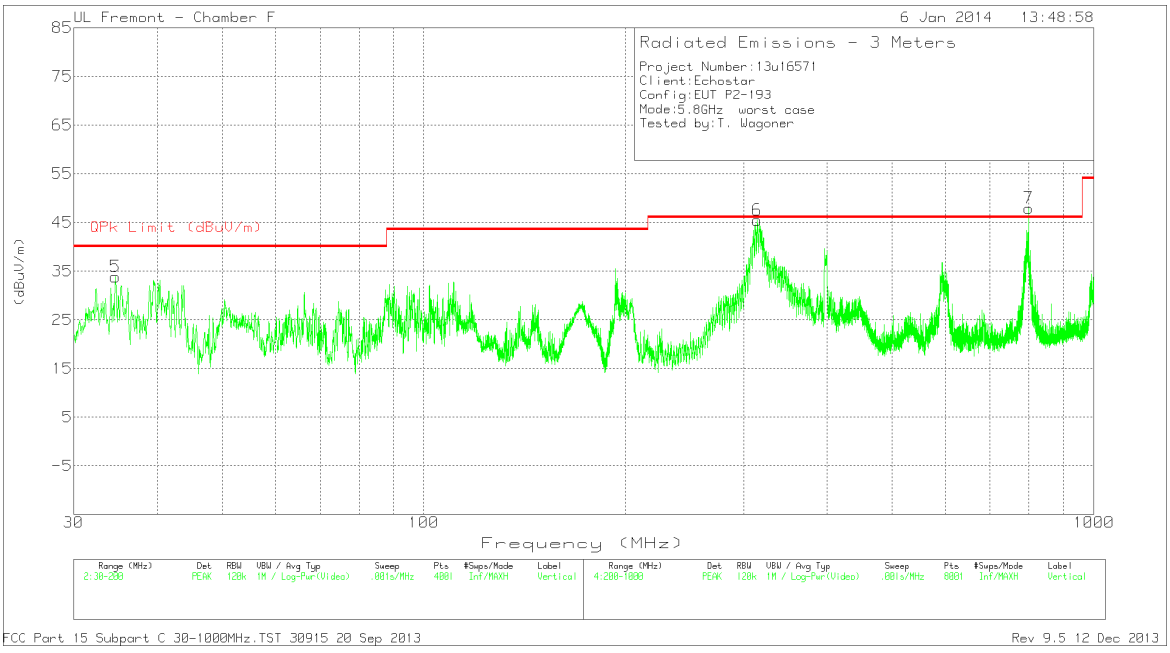
8.4. WORST-CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, 5.8GHz BAND)

HORIZONTAL PLOT



VERTICAL PLOT



DATA

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T122 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	204.8	56.49	PK	11	-31	36.49	43.52	-7.03	0-360	100	H
2	314.7	51.88	QP	13.8	-30.7	34.98	46.02	-11.04	159	116	H
3	399.9	54.76	QP	15.5	-30.5	39.76	46.02	-6.26	203	102	H
4	799.9	52.24	QP	21.2	-29.6	43.84	46.02	-2.18	166	104	H
5	34.6325	47.94	PK	18	-32.1	33.84	40	-6.16	0-360	100	V
6	314.4	59.09	QP	13.7	-30.7	42.09	46.02	-3.93	159	116	V
7	799.767	43.79	QP	21.2	-29.6	35.39	46.02	-10.63	159	116	V

PK - Peak detector

QP - Quasi-Peak detector

9. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

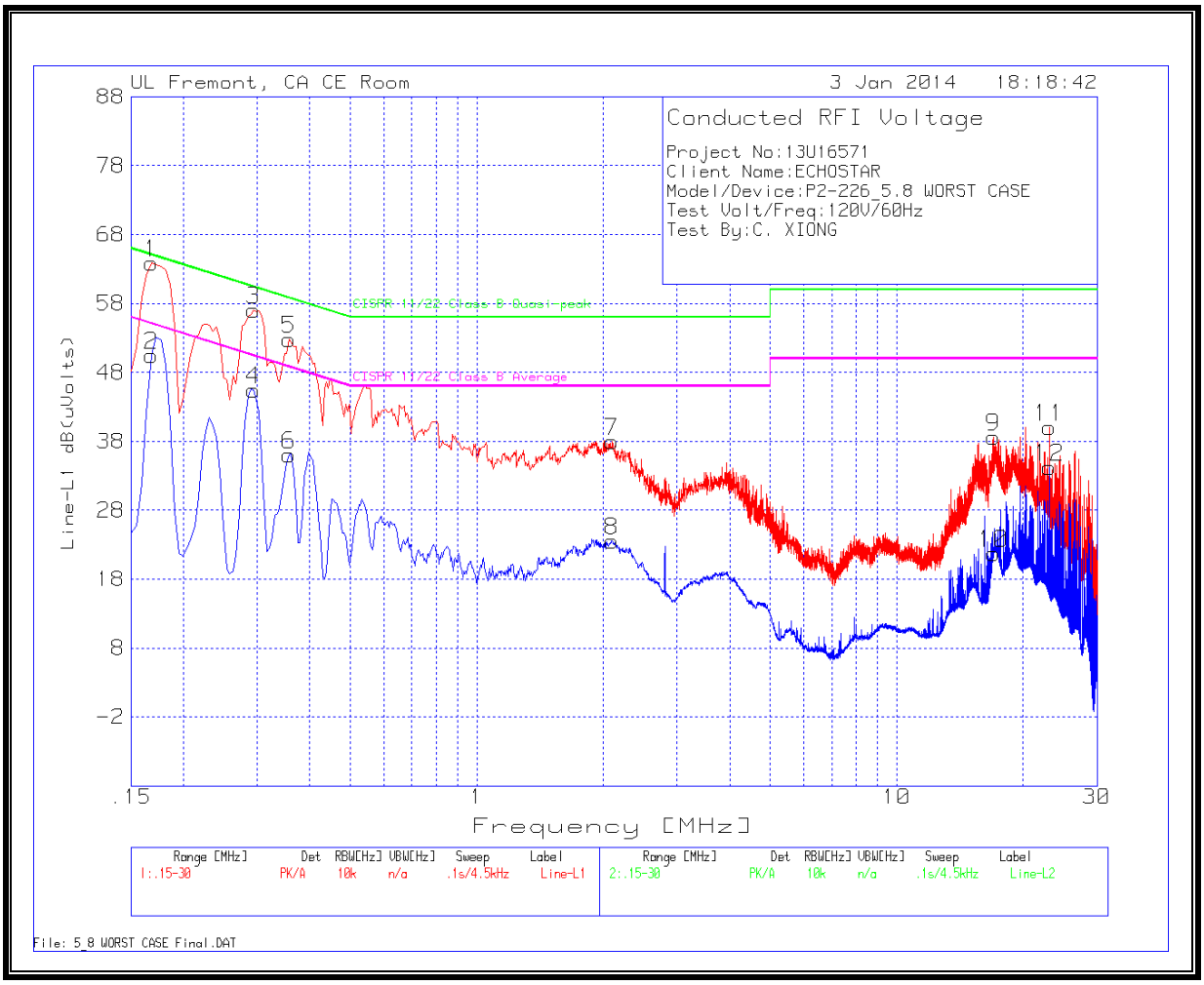
TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

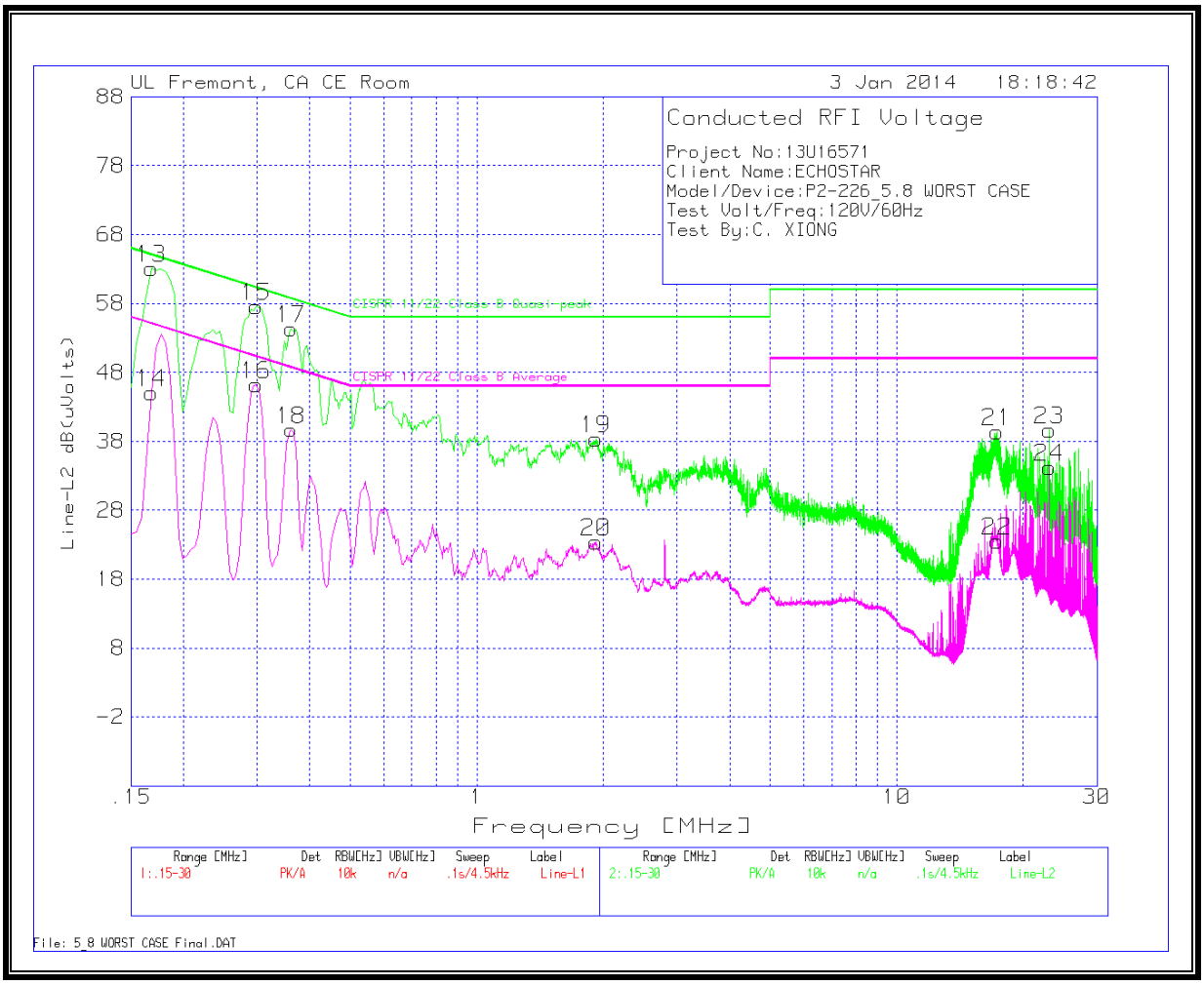
The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorded for both NEUTRAL and HOT lines.

LINE 1 RESULTS



LINE 2 RESULTS



DATA SUMMARY

Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dB(uVolts)	CISPR 11/22 Class B Quasi-peak	Margin to Limit (dB)	CISPR 11/22 Class B Average	Margin to Limit (dB)
1	.168	63.8	PK	.1	0	63.9	65.1	-1.2	-	-
2	.168	50.42	Av	.1	0	50.52	-	-	55.1	-4.58
3	.294	56.95	PK	.1	0	57.05	60.4	-3.35	-	-
4	.294	45.3	Av	.1	0	45.4	-	-	50.4	-5
5	.357	52.7	PK	.1	0	52.8	58.8	-6	-	-
6	.357	35.96	Av	.1	0	36.06	-	-	48.8	-12.74
7	2.103	37.75	PK	.1	.1	37.95	56	-18.05	-	-
8	2.103	23.32	Av	.1	.1	23.52	-	-	46	-22.48
9	17.0295	38.18	PK	.2	.2	38.58	60	-21.42	-	-
10	17.0295	21.31	Av	.2	.2	21.71	-	-	50	-28.29
11	23.127	39.42	PK	.4	.2	40.02	60	-19.98	-	-
12	23.127	33.67	Av	.4	.2	34.27	-	-	50	-15.73

Quasi-Peak Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dB(uVolts)	CFR 47 Part 15 Class B QP	Margin to Limit (dB)	CFR 47 Part 15 Class B Avg	Margin to Limit (dB)
.176	60.34	QP	.1	0	60.44	64.7	-4.26	-	-
.297	54.52	QP	.1	0	54.62	60.3	-5.68	-	-

PK - Peak detector

Av - average detection

QK – Quasi-Peak detector

Line-L2 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dB(uVolts)	CISPR 11/22 Class B Quasi-peak	Margin to Limit (dB)	CISPR 11/22 Class B Average	Margin to Limit (dB)
13	.168	62.96	PK	.1	0	63.06	65.1	-2.04	-	-
14	.168	44.94	Av	.1	0	45.04	-	-	55.1	-10.06
15	.2985	57.44	PK	.1	0	57.54	60.3	-2.76	-	-
16	.2985	46.16	Av	.1	0	46.26	-	-	50.3	-4.04
17	.3615	54.23	PK	.1	0	54.33	58.7	-4.37	-	-
18	.3615	39.61	Av	.1	0	39.71	-	-	48.7	-8.99
19	1.923	38.19	PK	.1	.1	38.39	56	-17.61	-	-
20	1.923	23.17	Av	.1	.1	23.37	-	-	46	-22.63
21	17.34	38.96	PK	.2	.2	39.36	60	-20.64	-	-
22	17.34	23.18	Av	.2	.2	23.58	-	-	50	-26.42
23	23.127	39.05	PK	.4	.2	39.65	60	-20.35	-	-
24	23.127	33.6	Av	.4	.2	34.2	-	-	50	-15.8

Quasi-Peak Emissions

Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dB(uVolts)	CFR 47 Part 15 Class B QP	Margin to Limit (dB)	CFR 47 Part 15 Class B Avg	Margin to Limit (dB)
.1765	60.56	QP	.1	0	60.66	64.6	-3.94	-	-
.2985	55.42	QP	.1	0	55.52	60.3	-4.78	-	-

PK - Peak detector

Av - average detection

QK – Quasi-Peak detector