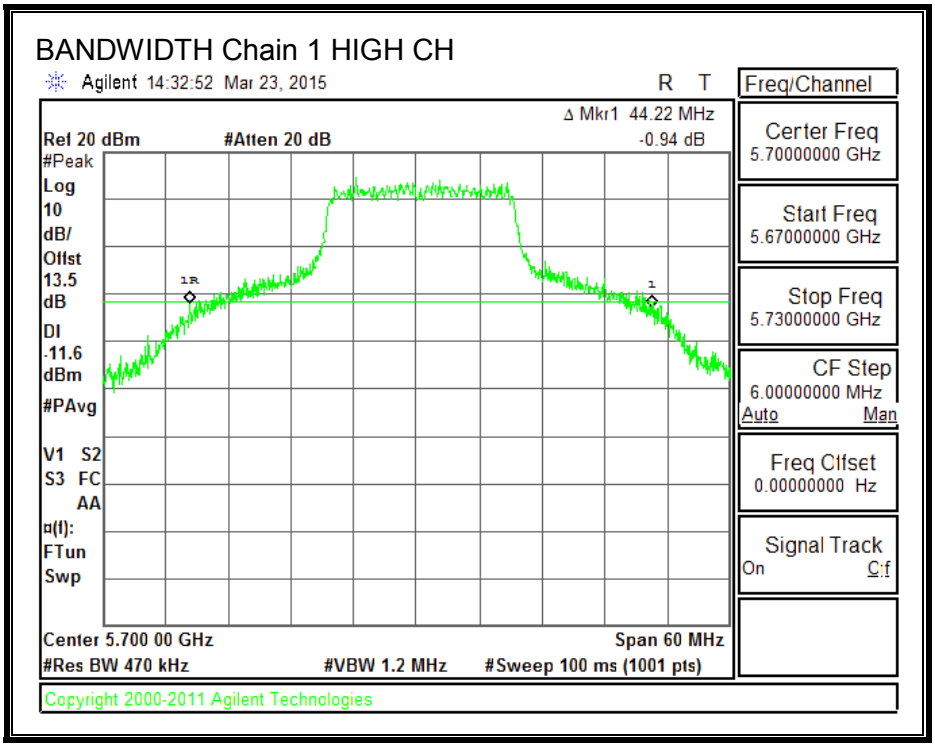
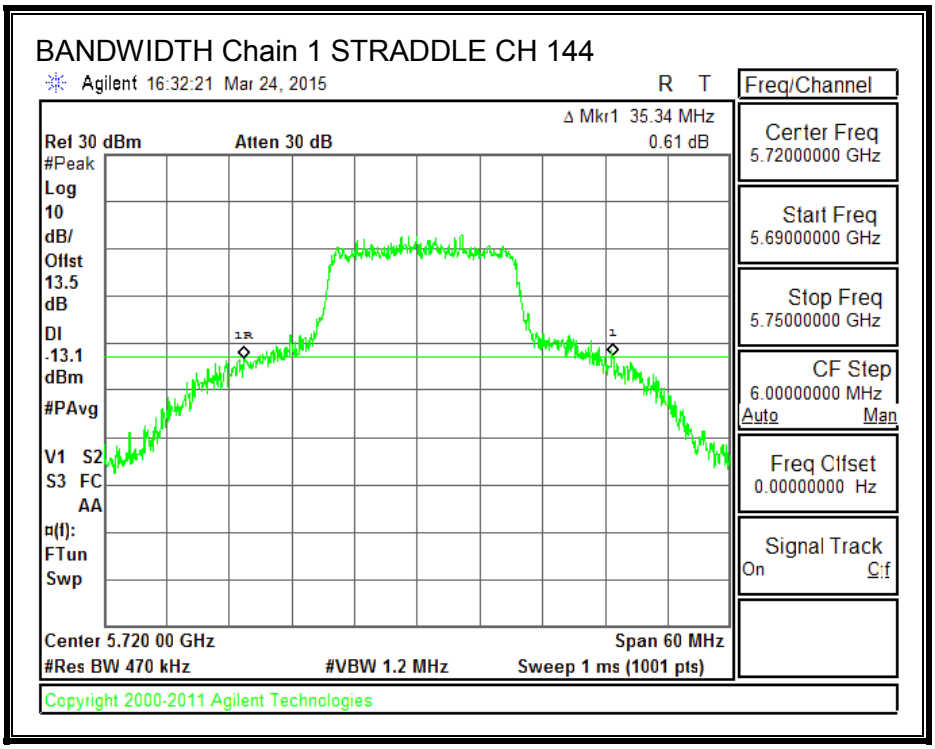
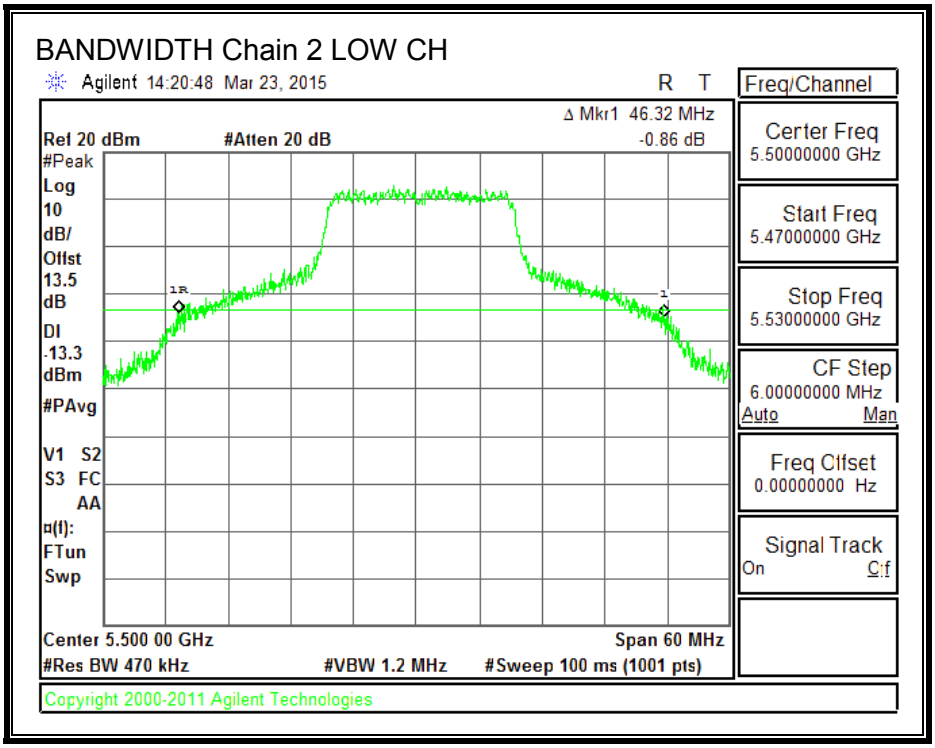
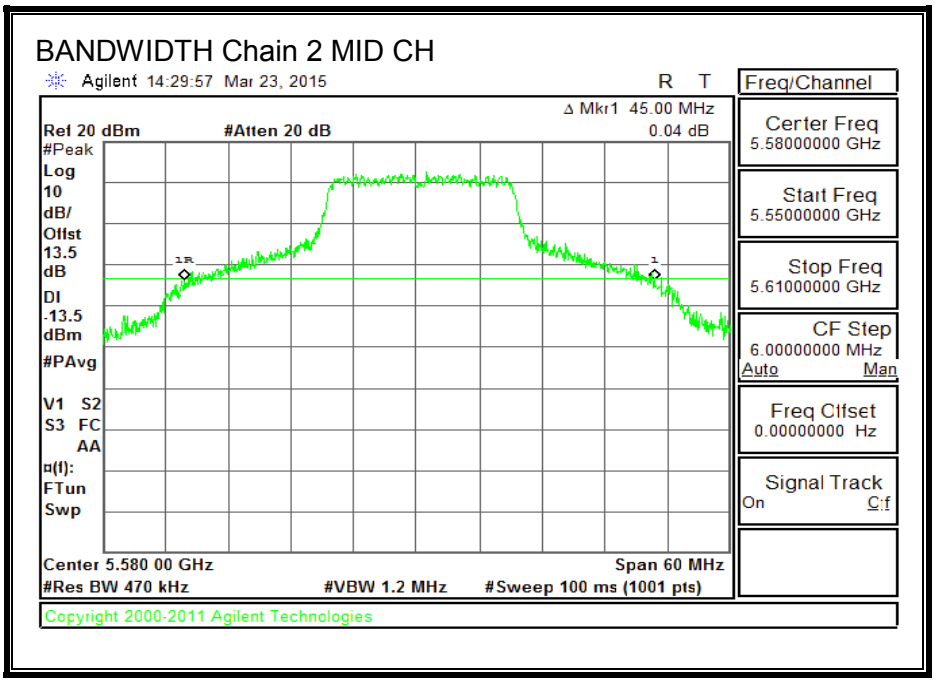


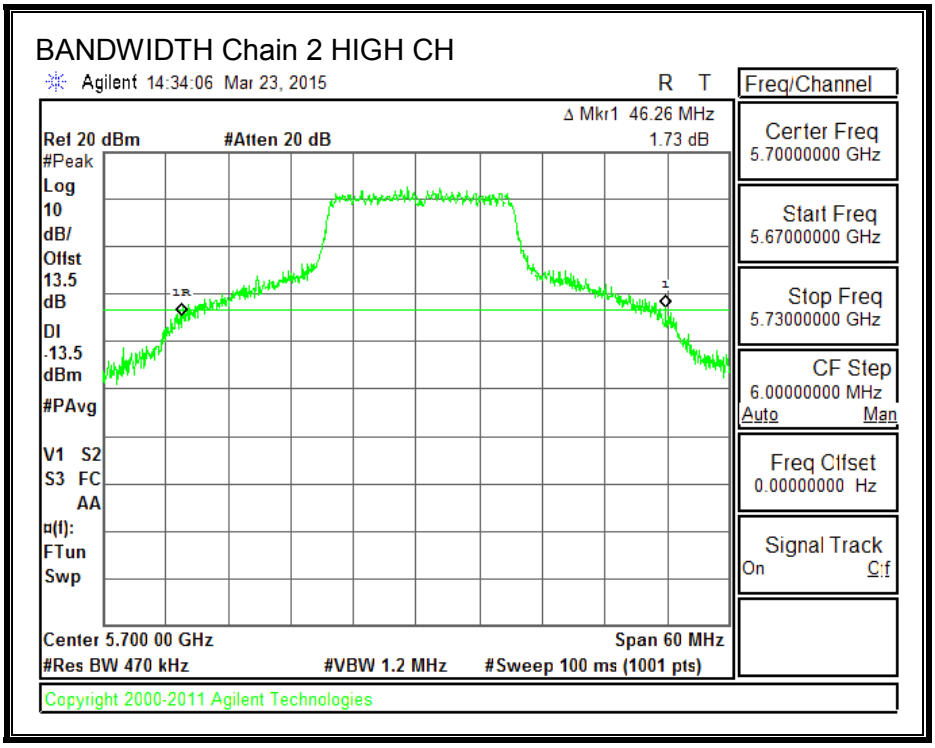


26 dB BANDWIDTH, Chain 2

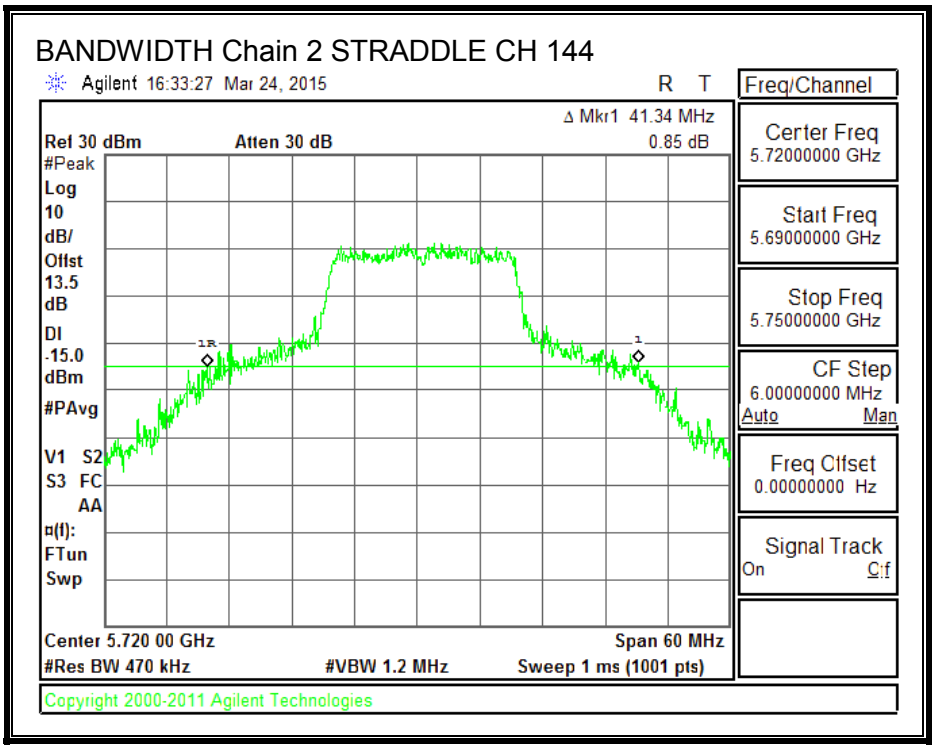




BANDWIDTH Chain 2 HIGH CH



BANDWIDTH Chain 2 STRADDLE CH 144



8.24.2. 99% BANDWIDTH

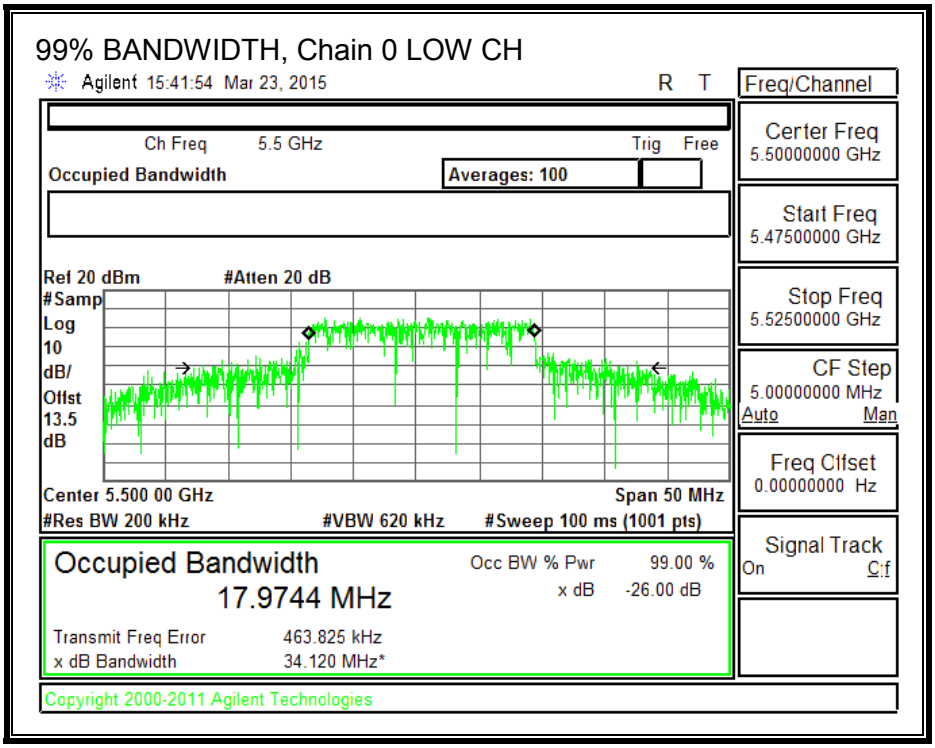
LIMITS

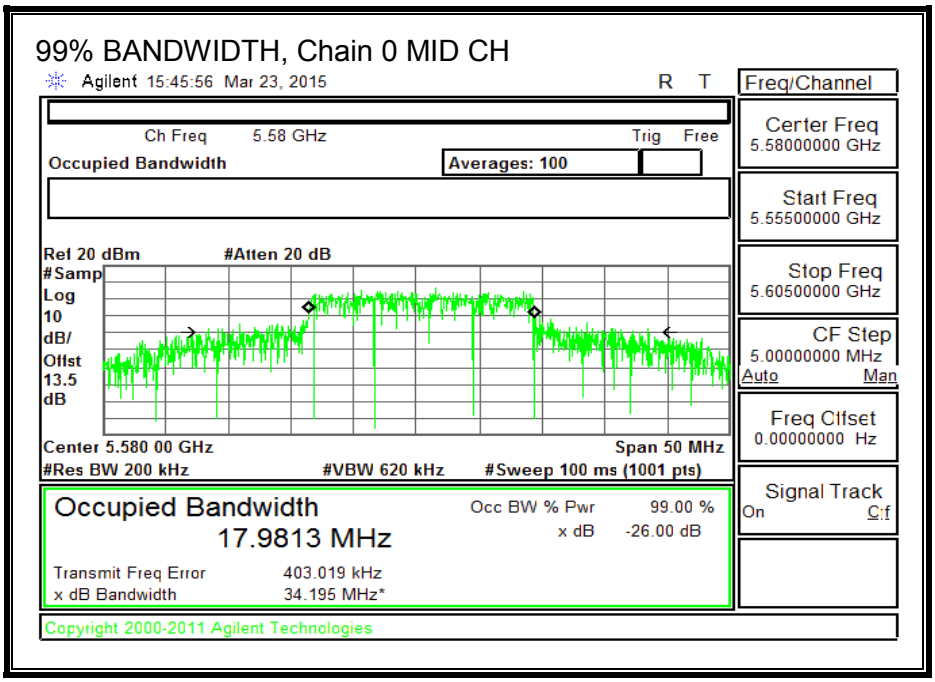
None; for reporting purposes only.

RESULTS

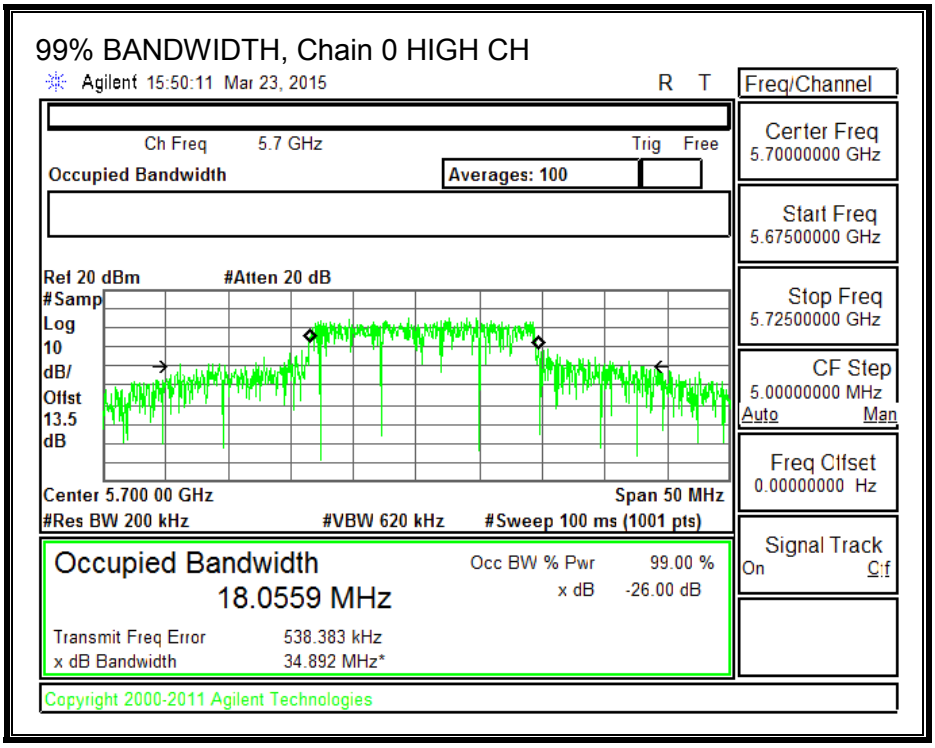
Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)	99% BW Chain 2 (MHz)
Low	5500	17.9744	17.9038	18.0624
Mid	5580	17.9813	17.9439	18.4014
High	5700	18.0559	18.0754	18.6710
144	5720	18.0937	17.8402	17.9554

99% BANDWIDTH, Chain 0

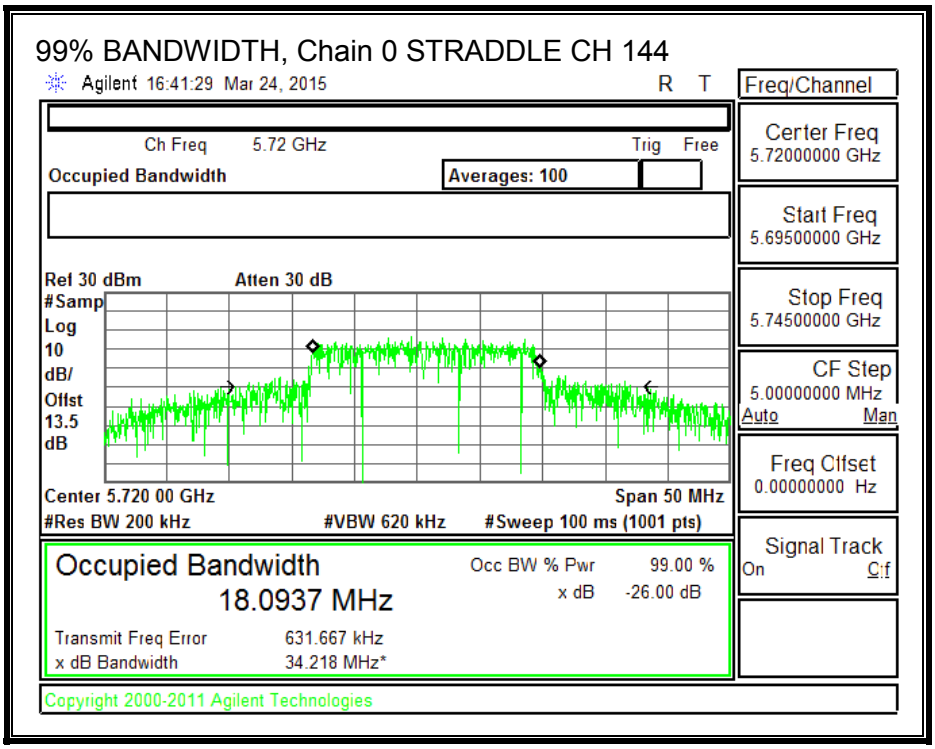




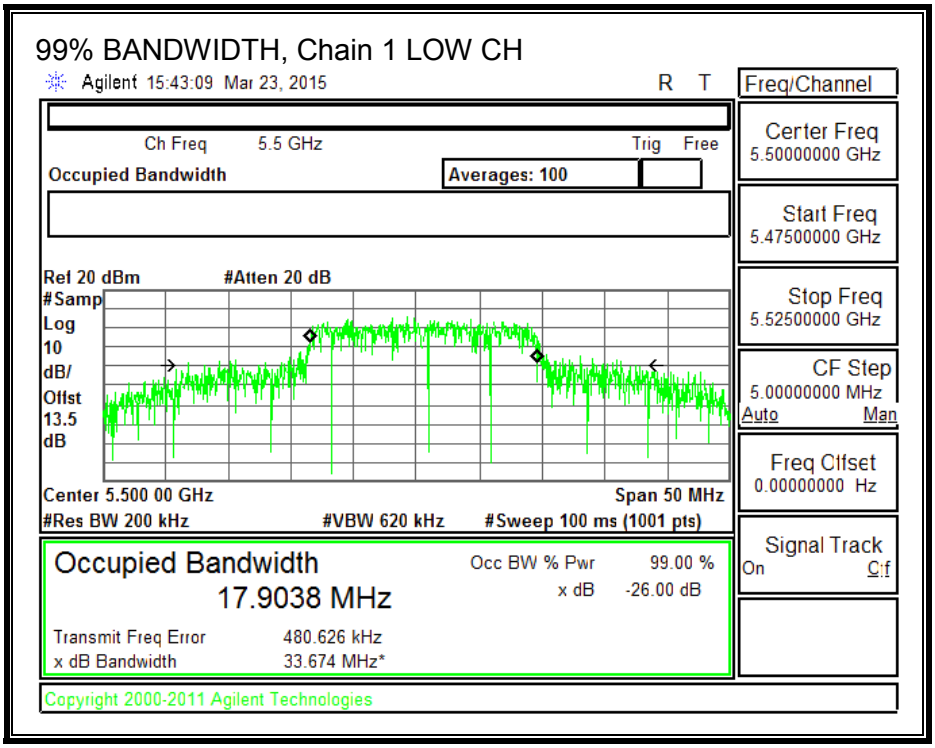
99% BANDWIDTH, Chain 0 HIGH CH

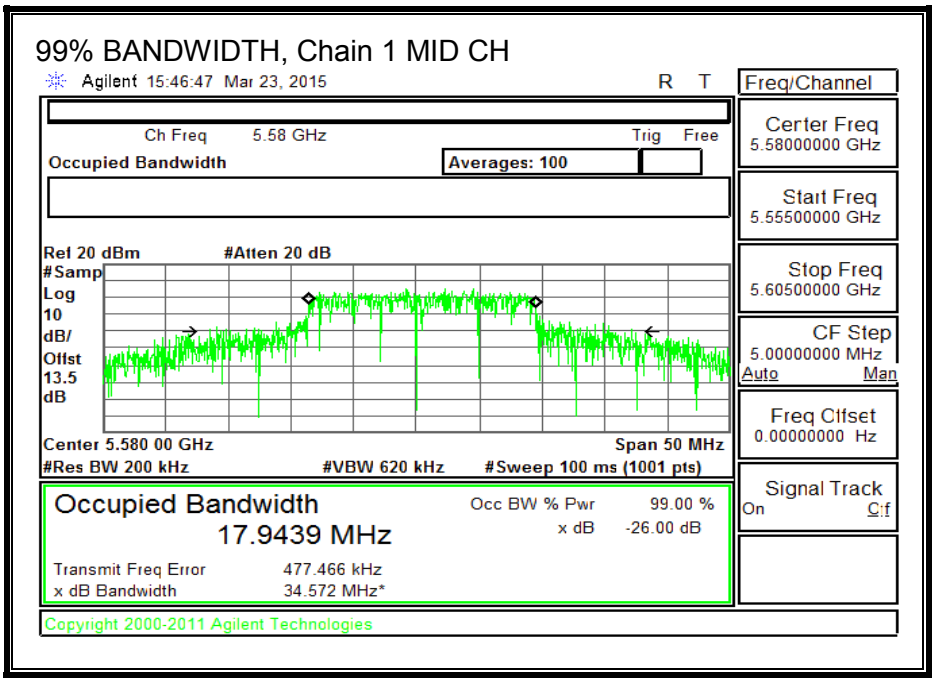


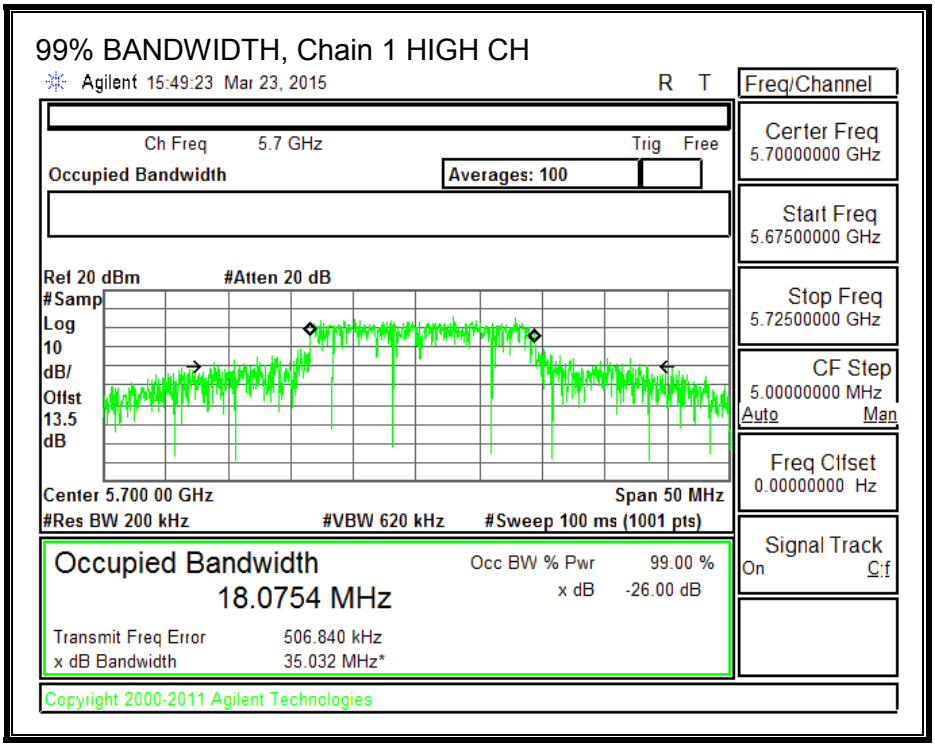
99% BANDWIDTH, Chain 0 STRADDLE CH 144

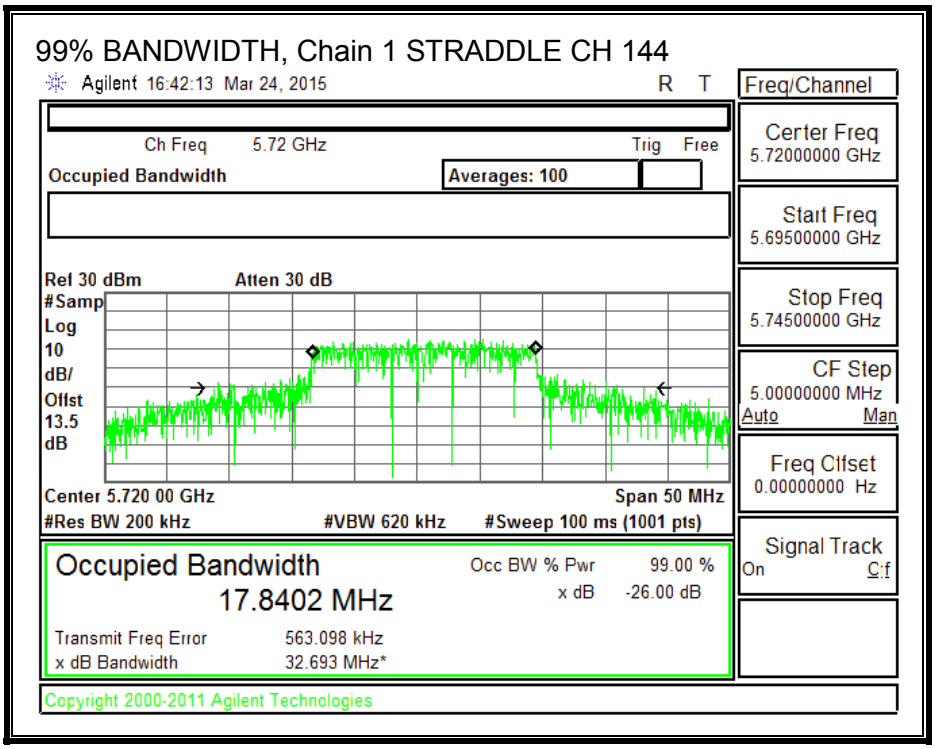


99% BANDWIDTH, Chain 1

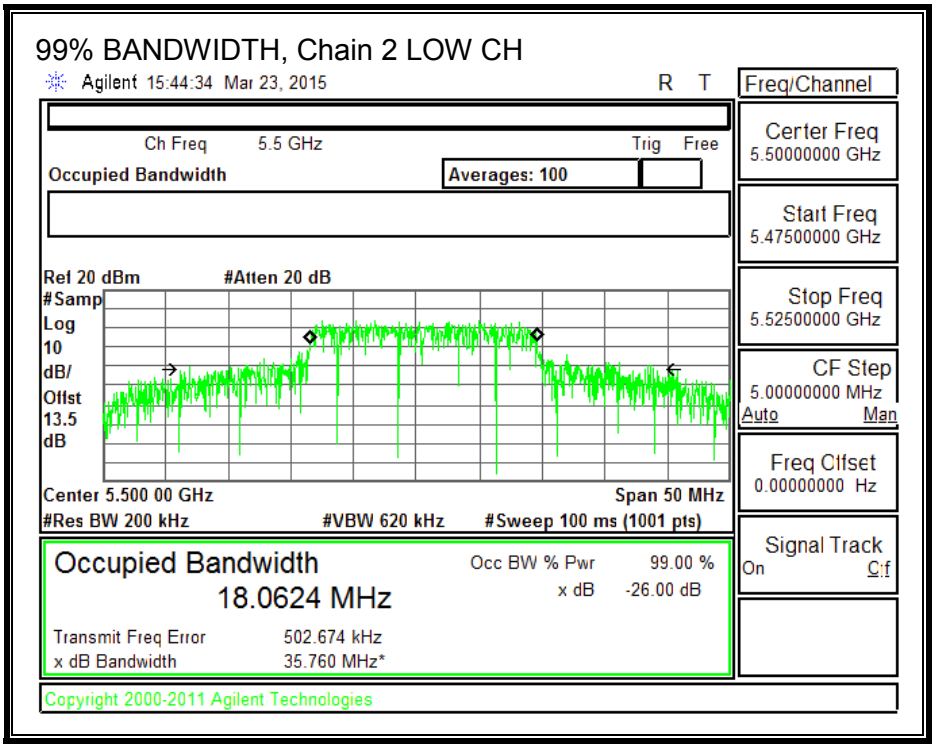


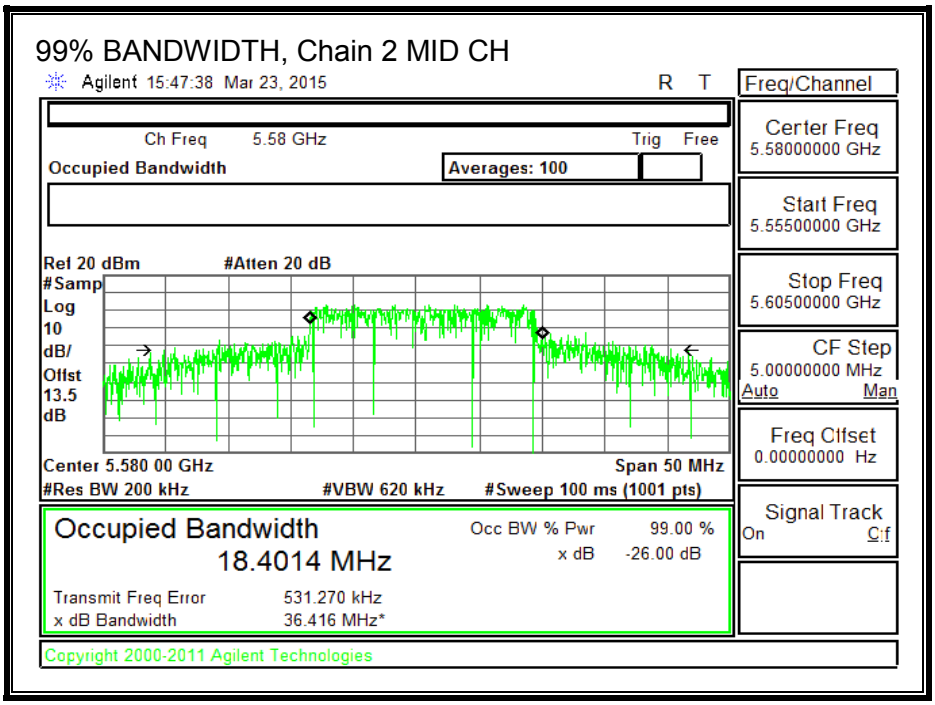




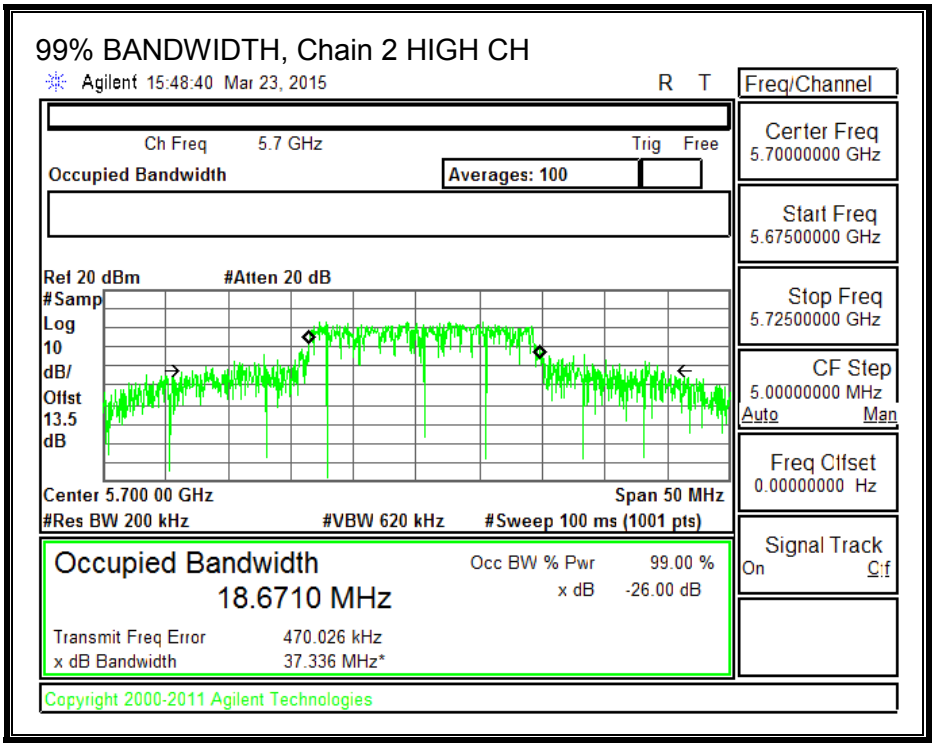


99% BANDWIDTH, Chain 2

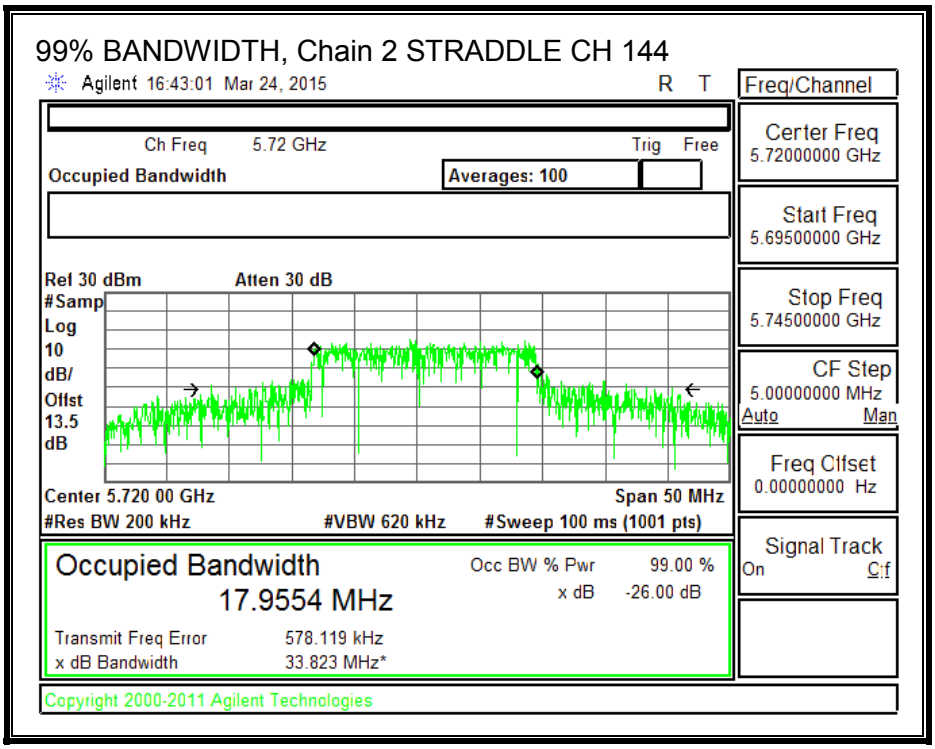




99% BANDWIDTH, Chain 2 HIGH CH



99% BANDWIDTH, Chain 2 STRADDLE CH 144



8.24.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

For power, the TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain, 6.21 dBi.

For PSD, 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)
6.21	4.77	10.98

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5500	42.84	6.21	10.98	23.79	6.02
Mid	5580	45.00	6.21	10.98	23.79	6.02
High	5700	44.22	6.21	10.98	23.79	6.02

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD

Output Power 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)	Power Margin (dB)
Low	5500	13.10	13.05	13.20	17.89	23.79	-5.90
Mid	5580	13.15	13.00	12.98	17.82	23.79	-5.97
High	5700	13.00	13.04	12.90	17.75	23.79	-6.04

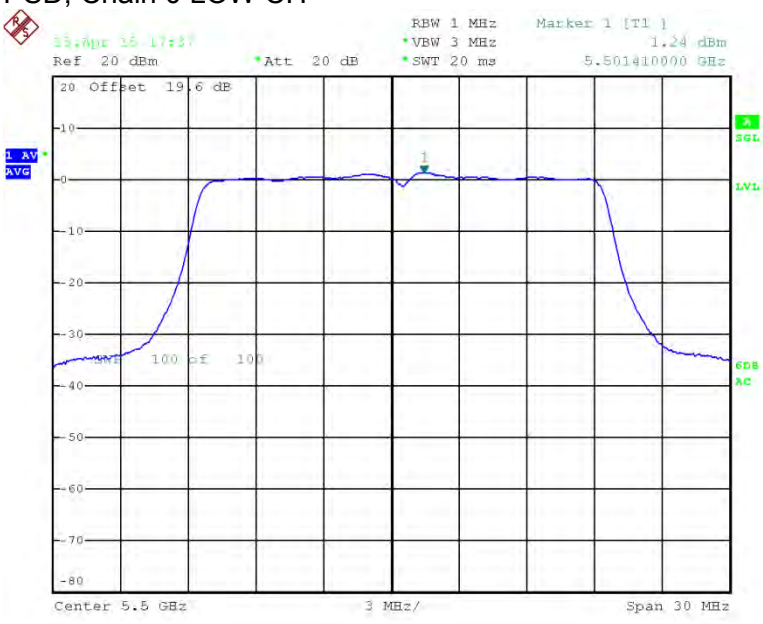
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5500	1.24	0.98	1.35	5.96	6.02	-0.06
Mid	5580	1.18	0.91	0.35	5.60	6.02	-0.42
High	5700	0.59	0.49	0.15	5.19	6.02	-0.83

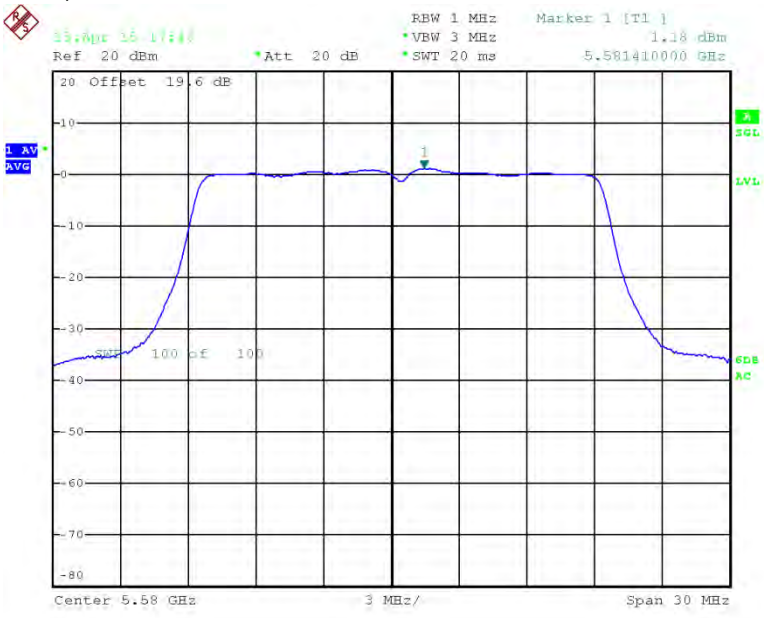
Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

PSD, Chain 0

PSD, Chain 0 LOW CH

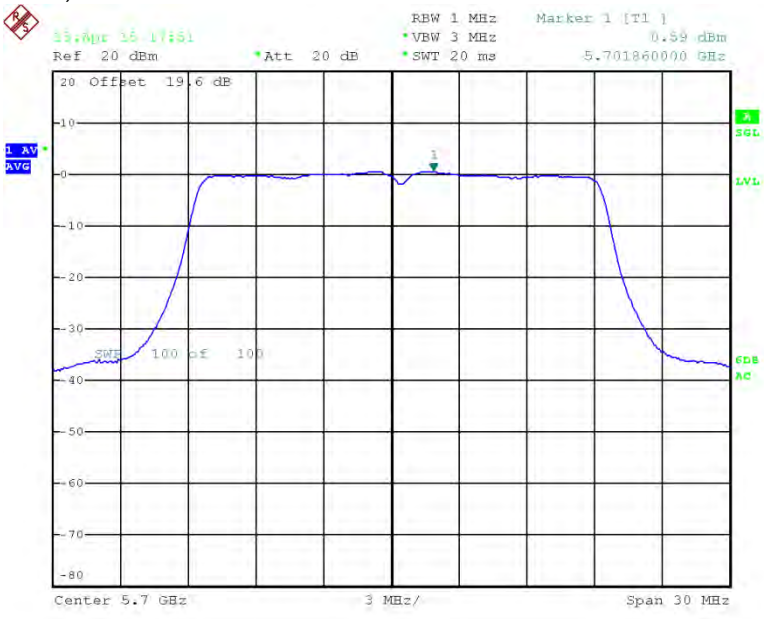


PSD, Chain 0 MID CH



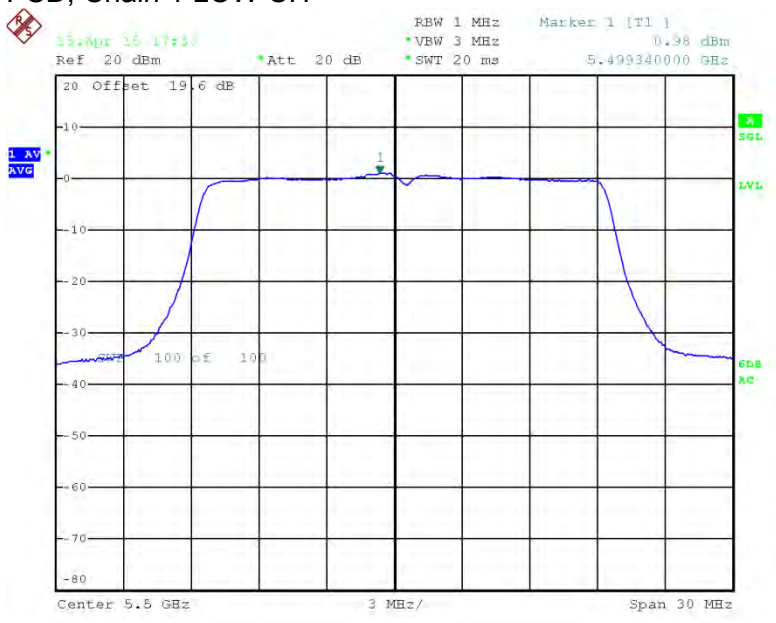
Date: 15.APR.2015 17:48:14

PSD, Chain 0 HIGH CH



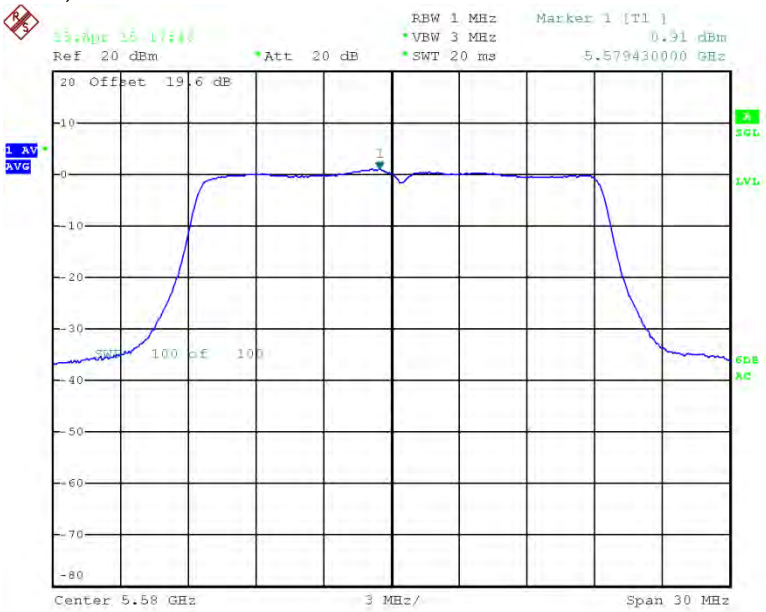
PSD, Chain 1

PSD, Chain 1 LOW CH



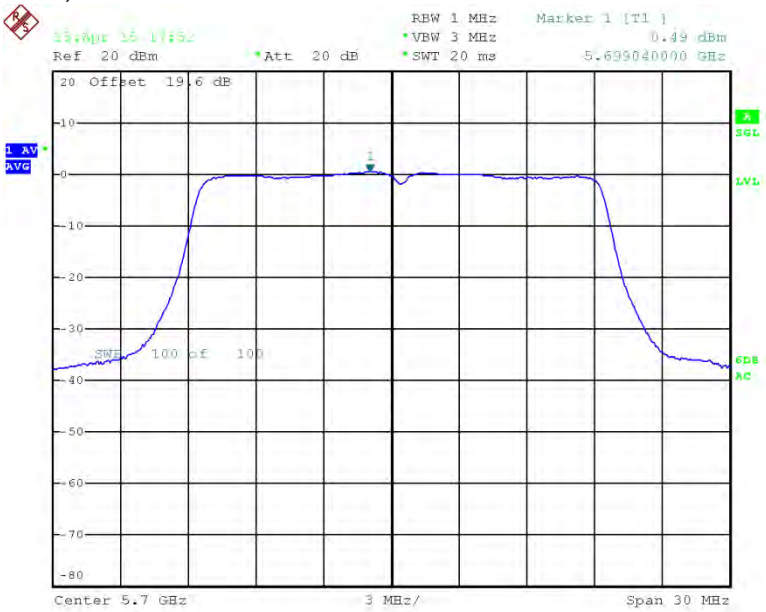
Date: 15.APR.2015 17:38:21

PSD, Chain 1 MID CH



Date: 15.APR.2015 17:48:59

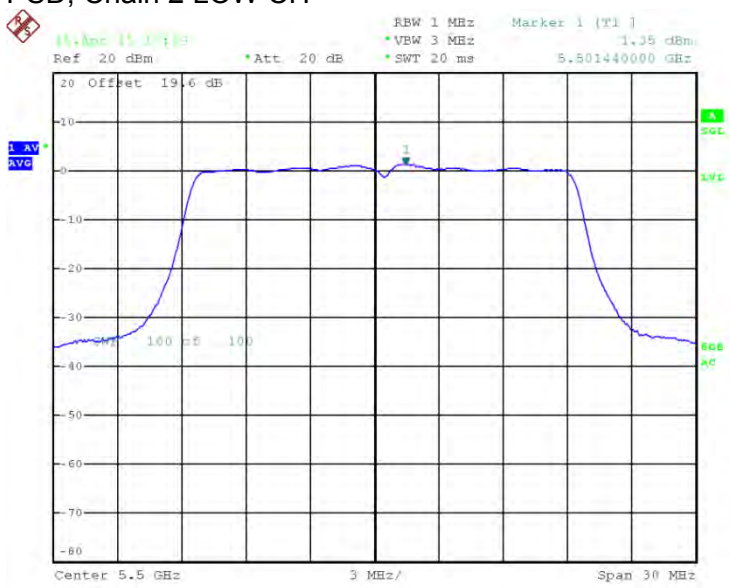
PSD, Chain 1 HIGH CH



Date: 15.APR.2015 17:52:06

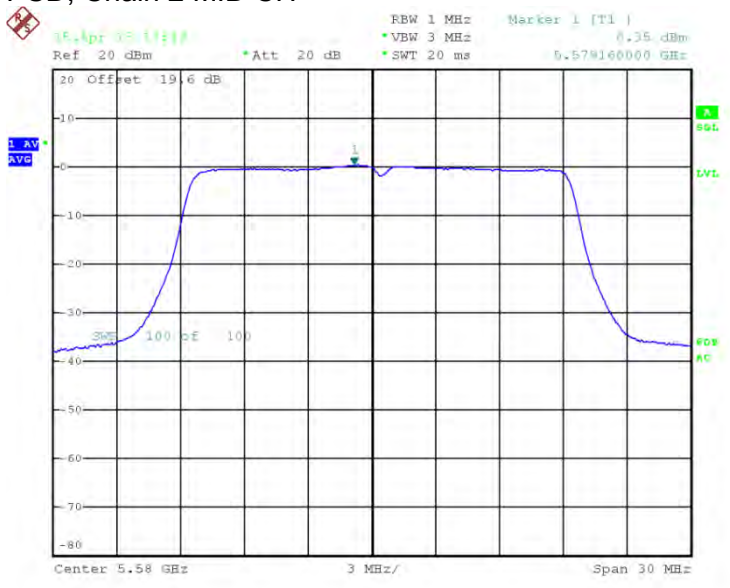
PSD, Chain 2

PSD, Chain 2 LOW CH



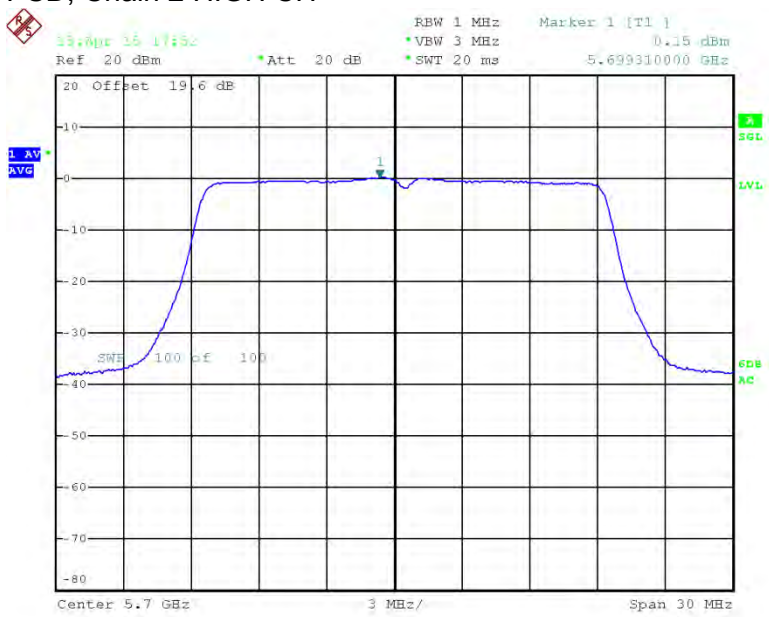
Date: 15.APR.2015 17:39:20

PSD, Chain 2 MID CH



Date: 15.APR.2015 17:49:49

PSD, Chain 2 HIGH CH



STRADDLE CHANNEL 144 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
144	5720	22.67	6.21	10.98	23.79	6.02

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD

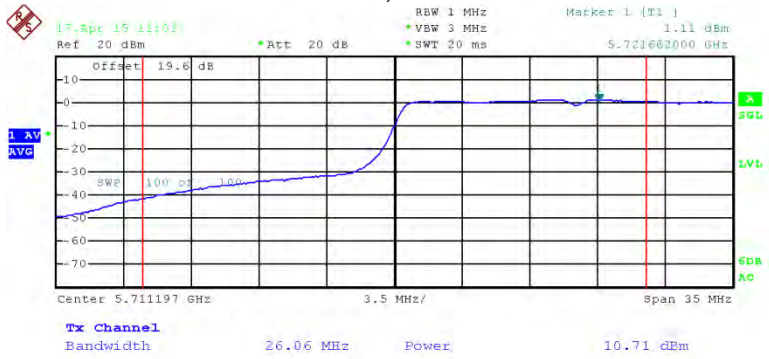
Output Power Results

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)	Power Margin (dB)
144	5720	10.71	11.27	10.88	15.73	23.79	-8.06

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
144	5720	1.11	1.17	1.14	5.91	6.02	-0.11

OUTPUT POWER AND PSD, Chain 0 CH 144 UNII

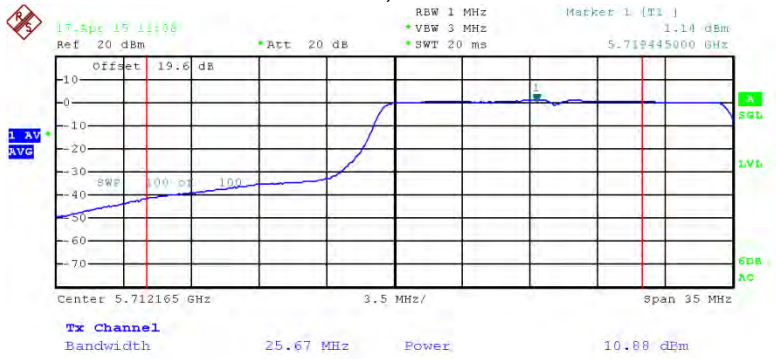


Date: 17.APR.2015 11:02:38

OUTPUT POWER AND PSD, Chain 1 CH 144 UNII

Date: 17.APR.2015 11:06:57

OUTPUT POWER AND PSD, Chain 2 CH 144 UNII



Date: 17.APR.2015 11:08:36

UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
144	5720	6.21	10.98	29.79	25.02

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD

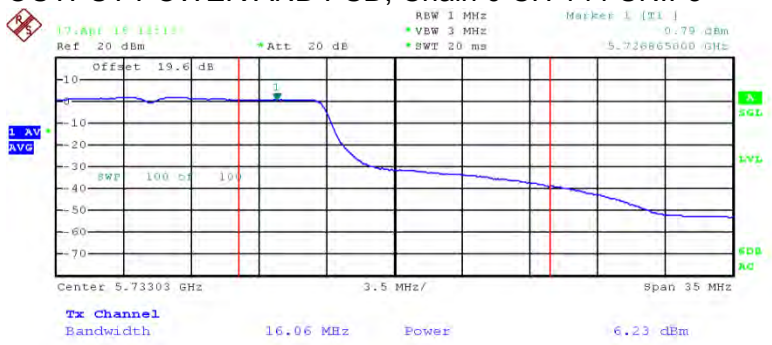
Output Power Results

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)	Power Margin (dB)
144	5720	6.23	5.98	5.67	10.74	29.79	-19.05

PSD Results

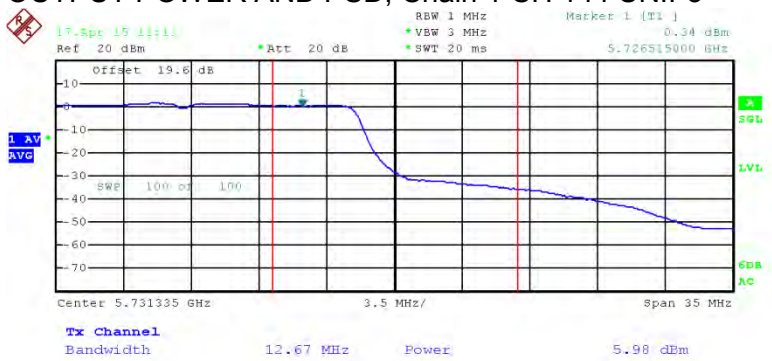
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
144	5720	0.79	0.34	0.31	5.26	25.02	-19.76

OUTPUT POWER AND PSD, Chain 0 CH 144 UNII-3



Date: 17.APR.2015 11:12:38

OUTPUT POWER AND PSD, Chain 1 CH 144 UNII-3



Date: 17.APR.2015 11:13:46

OUTPUT POWER AND PSD, Chain 2 CH 144 UNII-3

Date: 17.APR.2015 11:16:17

8.24.4. AVERAGE OUTPUT POWER (WHOLE FUNDAMENTAL)

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

RESULTS

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)
144	5720	18.98	18.80	18.75	23.62

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.25. 802.11n HT20 STBC 3Tx MODE IN THE 5.6 GHz BAND

8.25.1. 26 dB BANDWIDTH

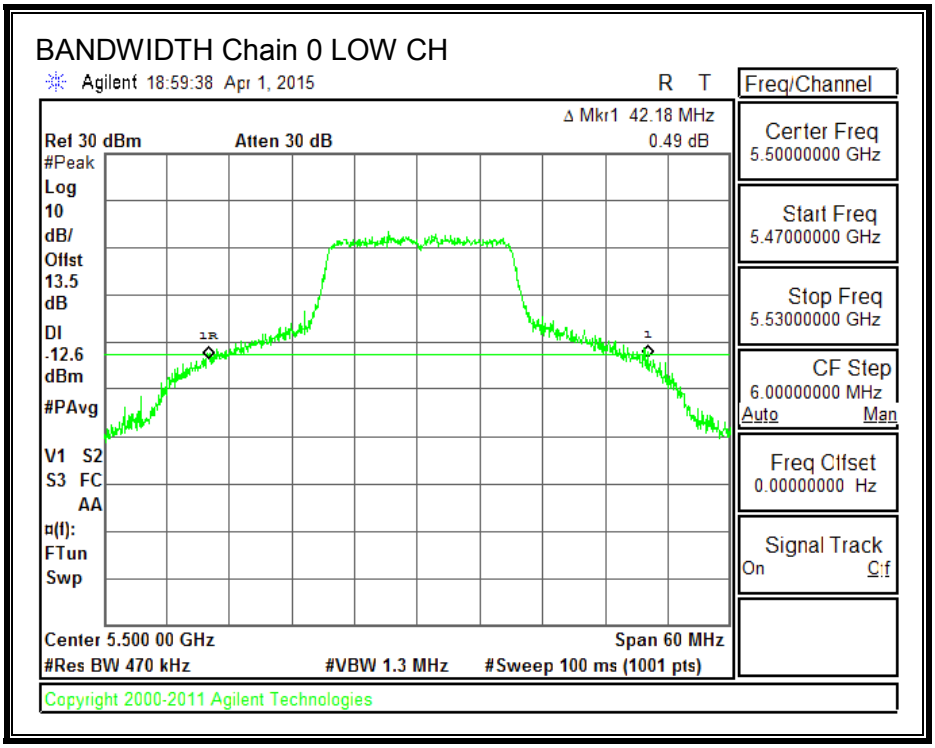
LIMITS

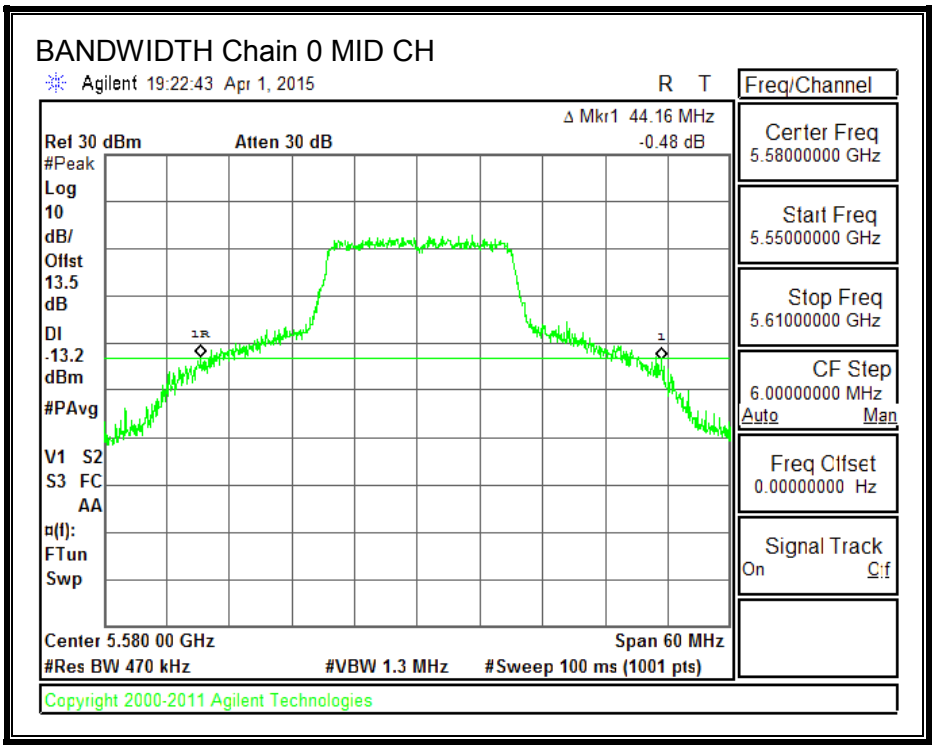
None; for reporting purposes only.

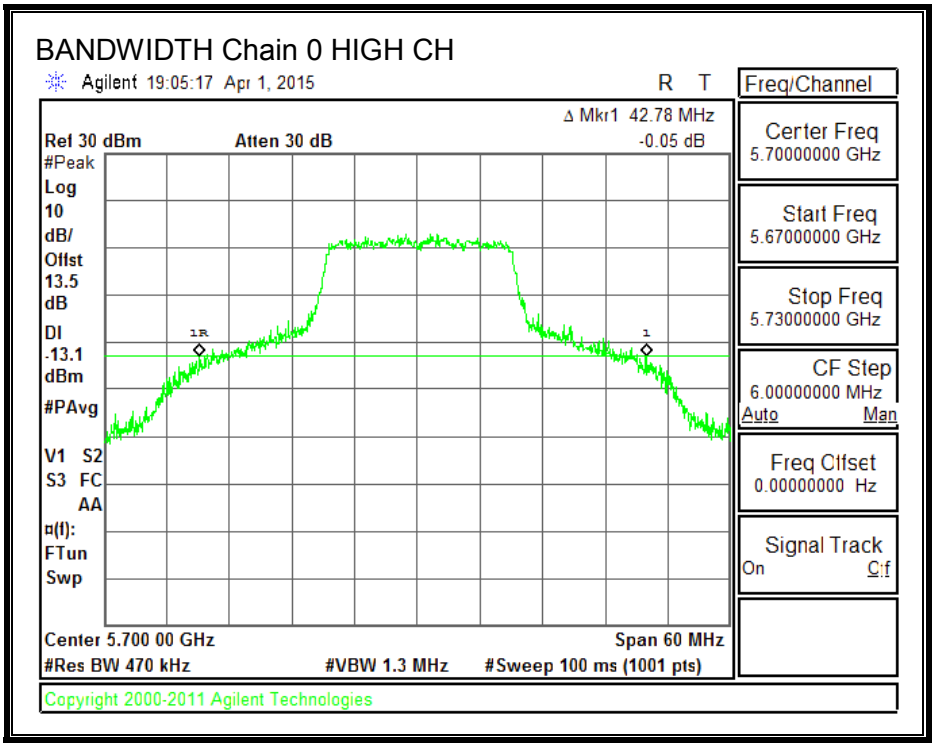
RESULTS

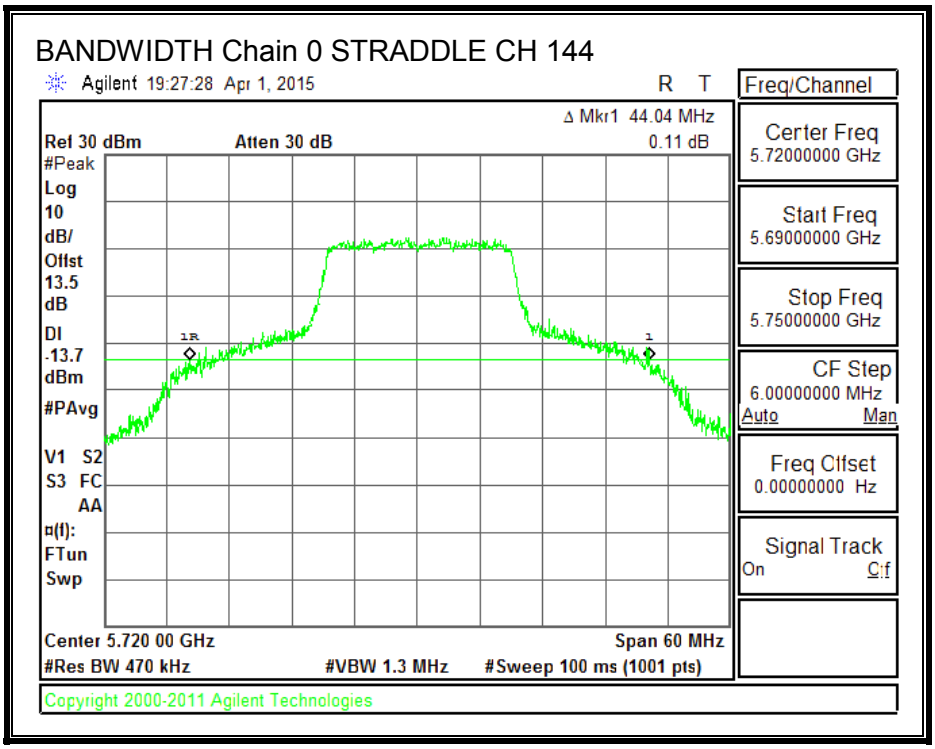
Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)	26 dB BW Chain 2 (MHz)
Low	5500	42.18	45.06	43.92
Mid	5580	44.16	45.54	44.94
High	5700	42.78	42.30	45.84
144	5720	44.04	45.96	45.18

26 dB BANDWIDTH, Chain 0

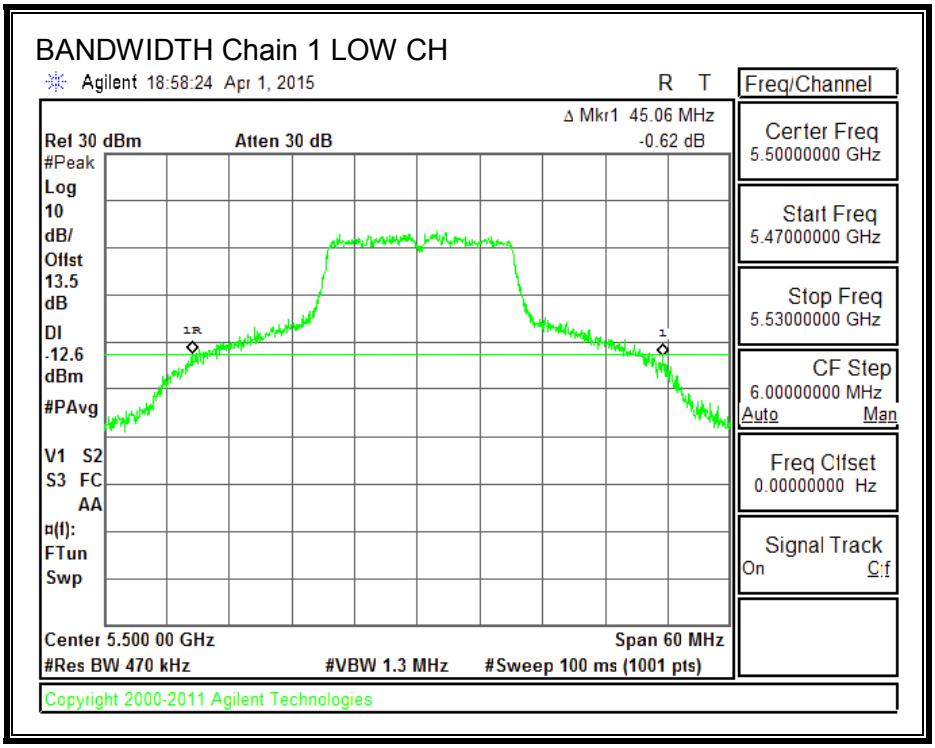


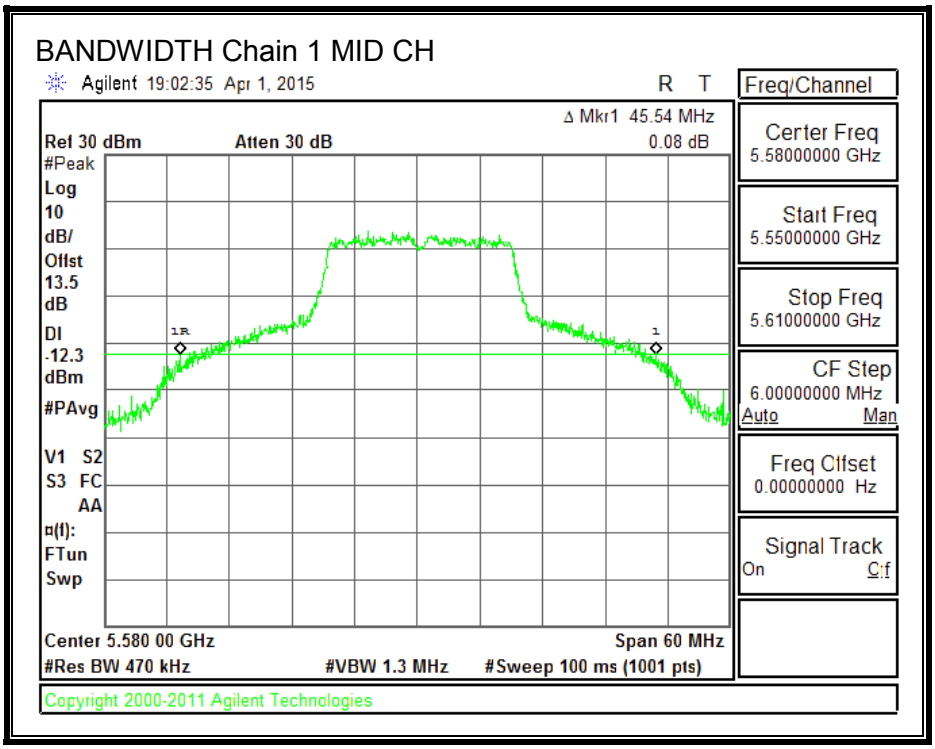




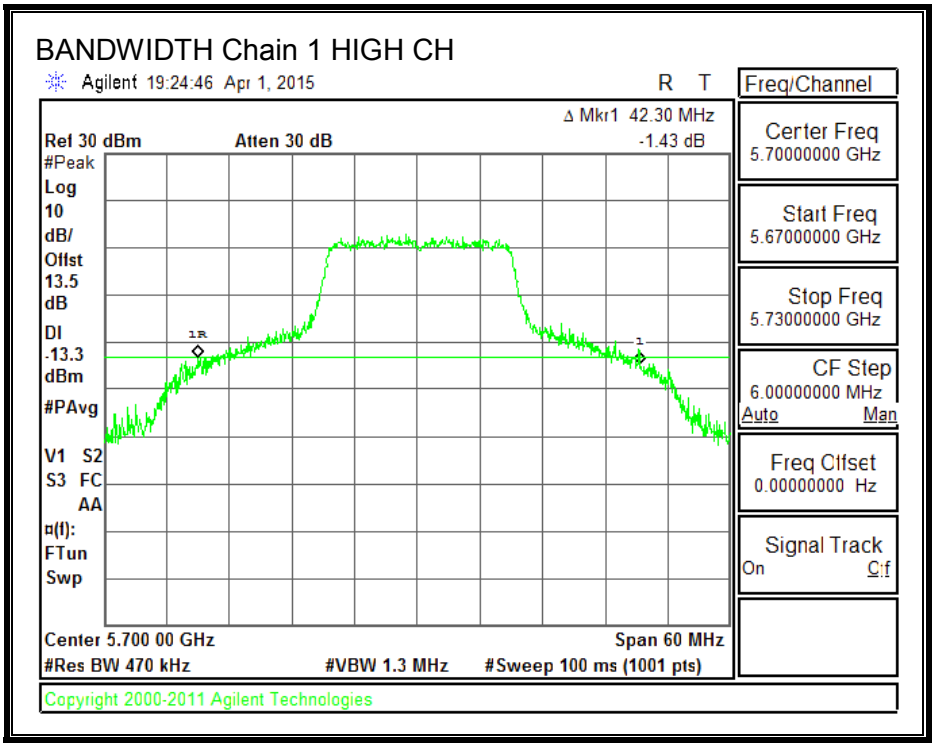


26 dB BANDWIDTH, Chain 1

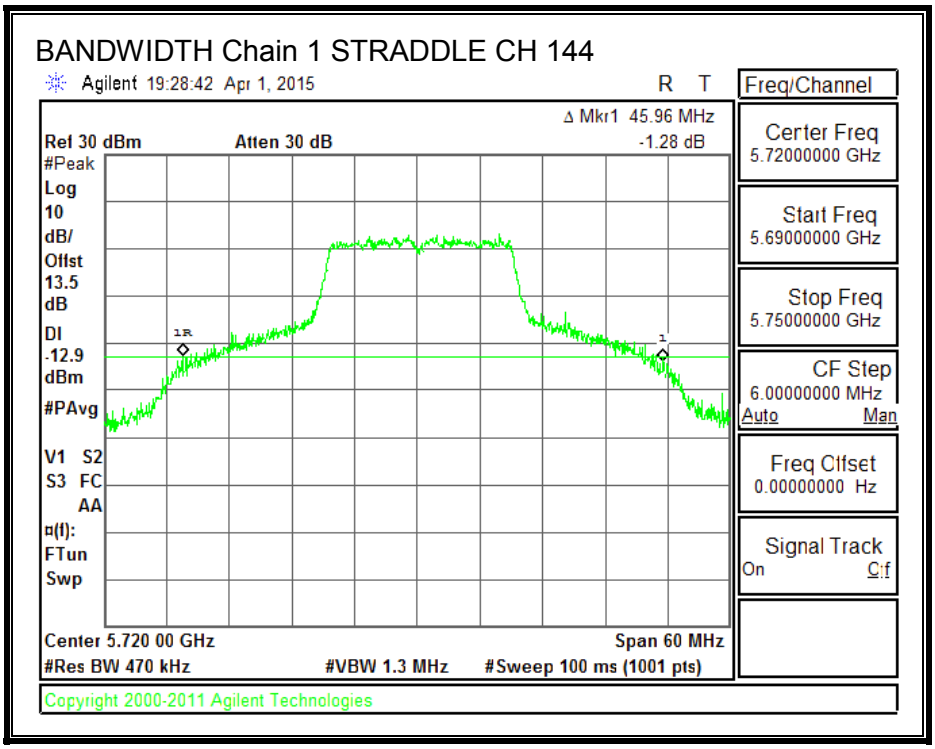




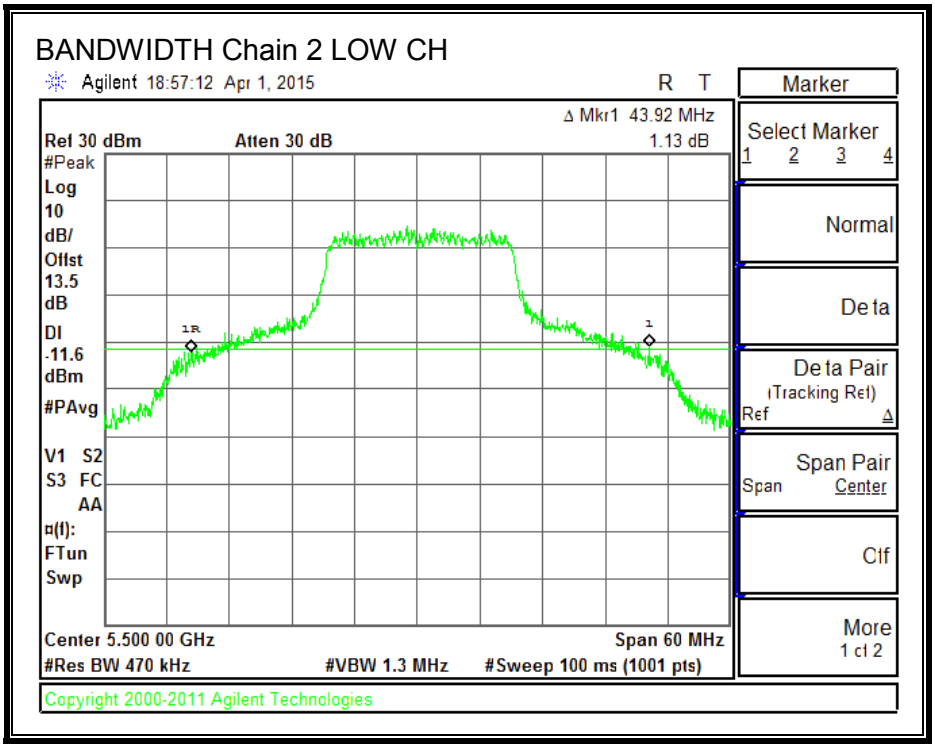
BANDWIDTH Chain 1 HIGH CH

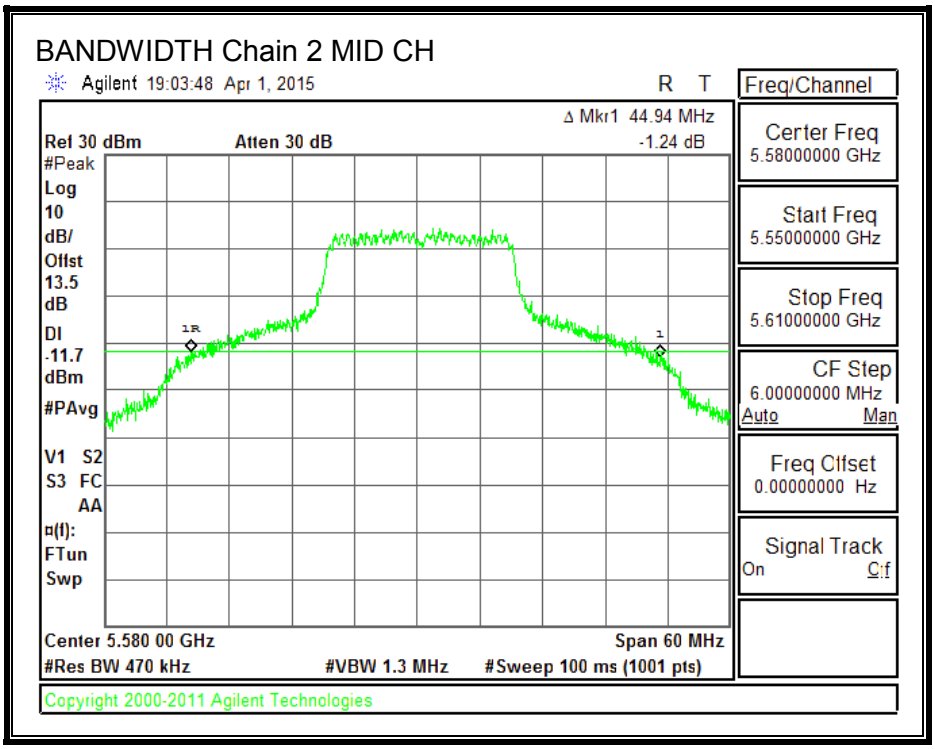


BANDWIDTH Chain 1 STRADDLE CH 144

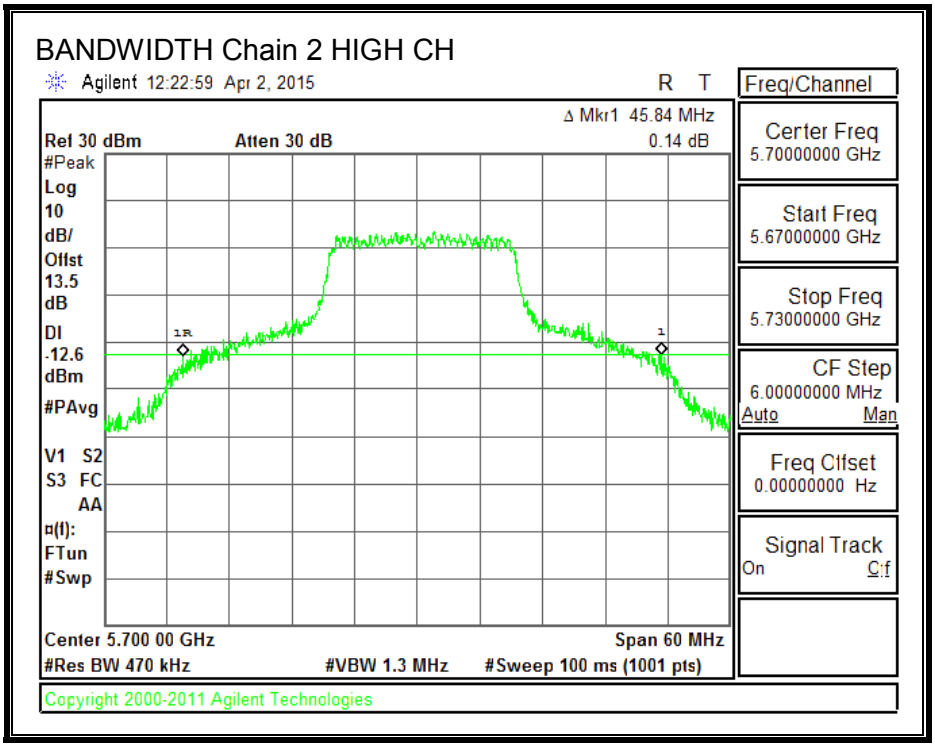


26 dB BANDWIDTH, Chain 2

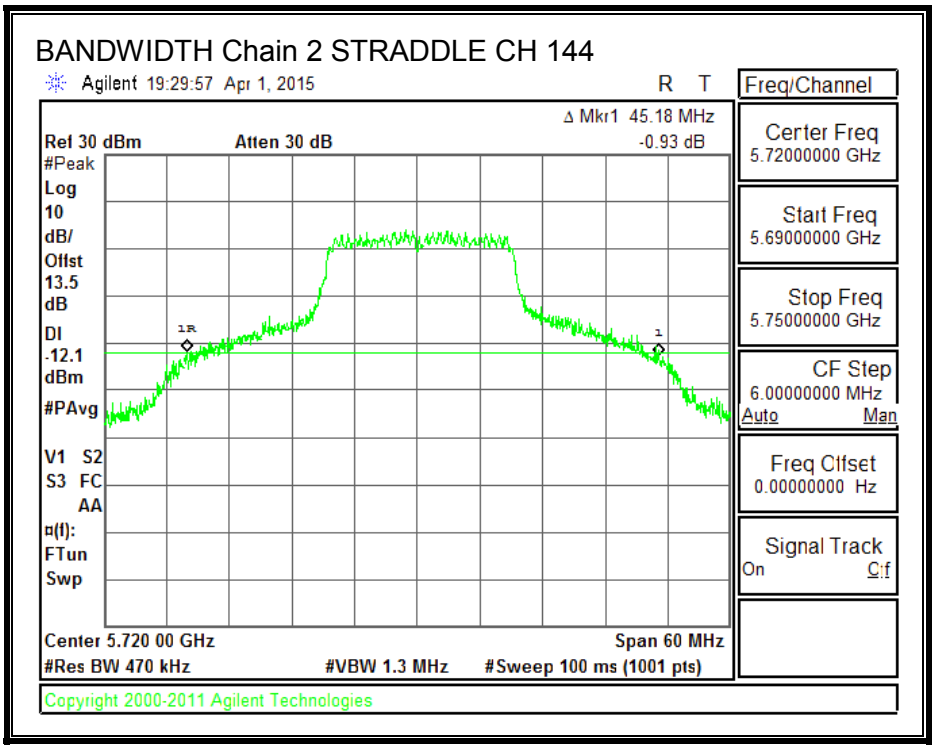




BANDWIDTH Chain 2 HIGH CH



BANDWIDTH Chain 2 STRADDLE CH 144



8.25.2. 99% BANDWIDTH

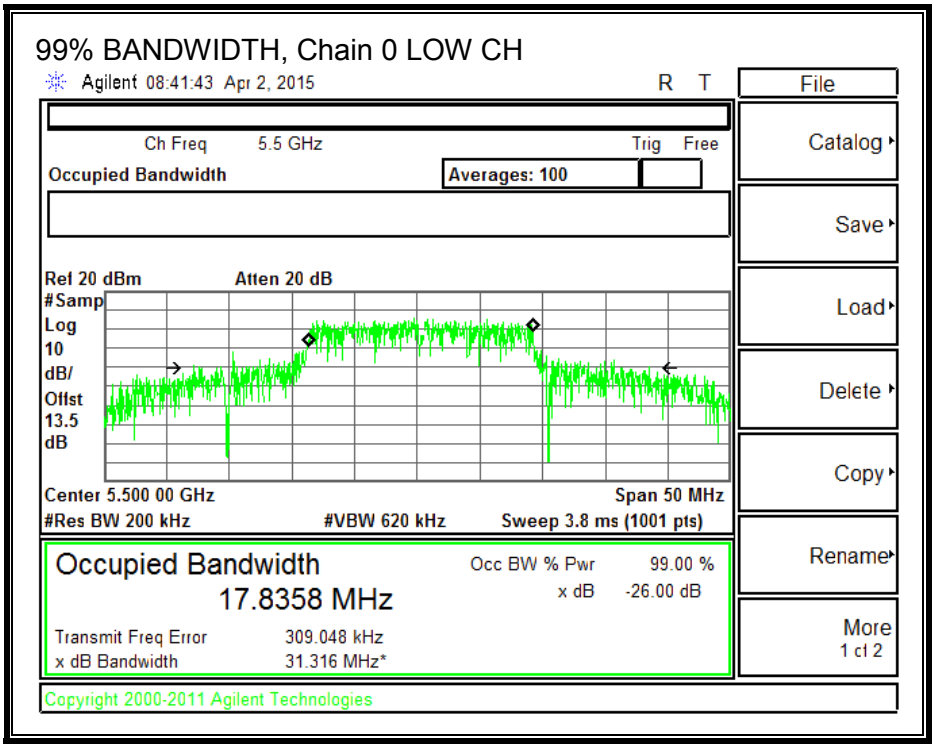
LIMITS

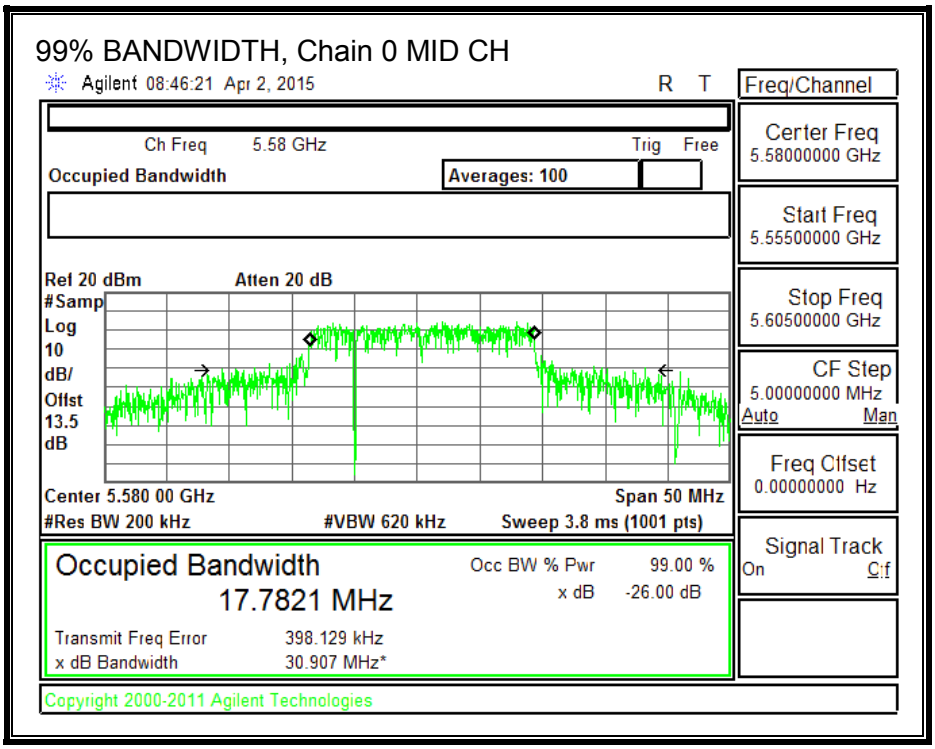
None; for reporting purposes only.

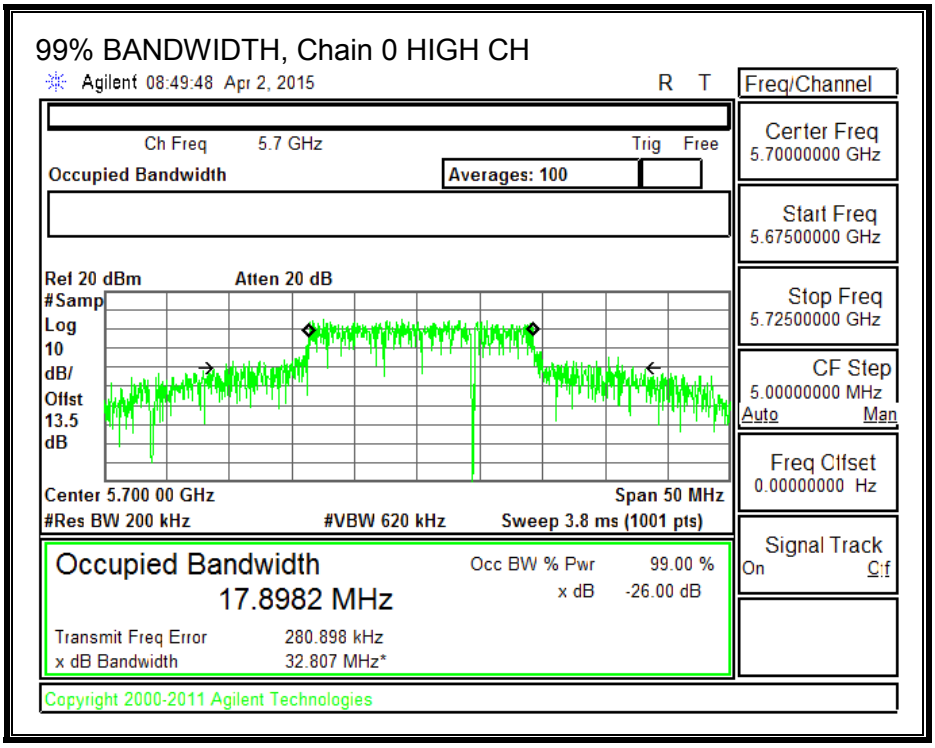
RESULTS

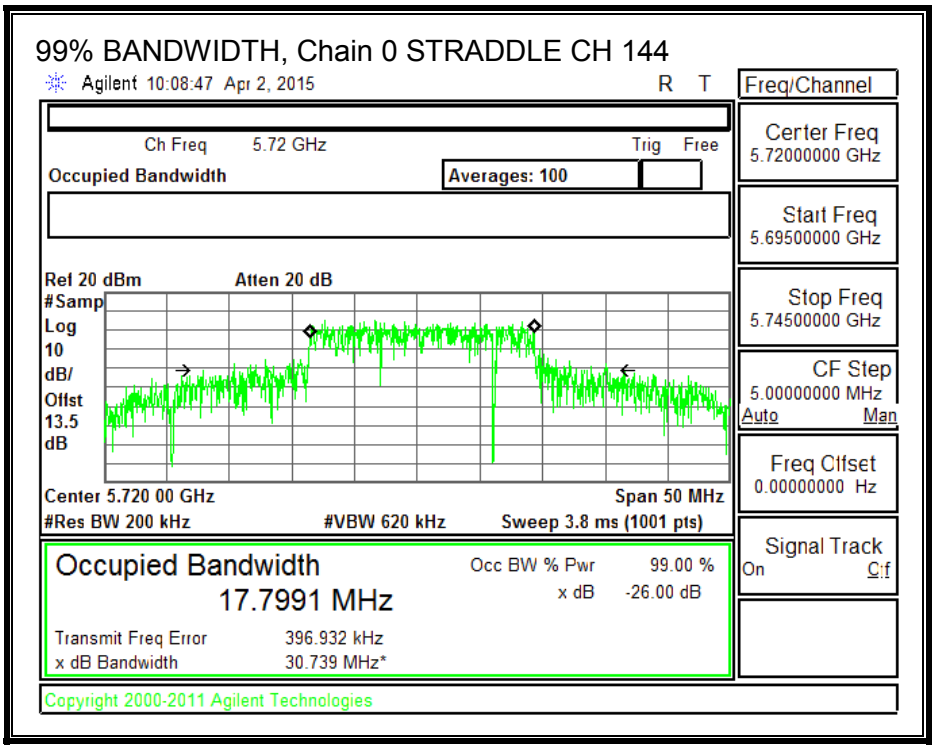
Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)	99% BW Chain 2 (MHz)
Low	5500	17.8358	17.7589	17.8753
Mid	5580	17.7821	17.7839	17.7444
High	5700	17.8982	17.7522	17.7417
144	5720	17.7991	17.9585	17.7883

99% BANDWIDTH, Chain 0

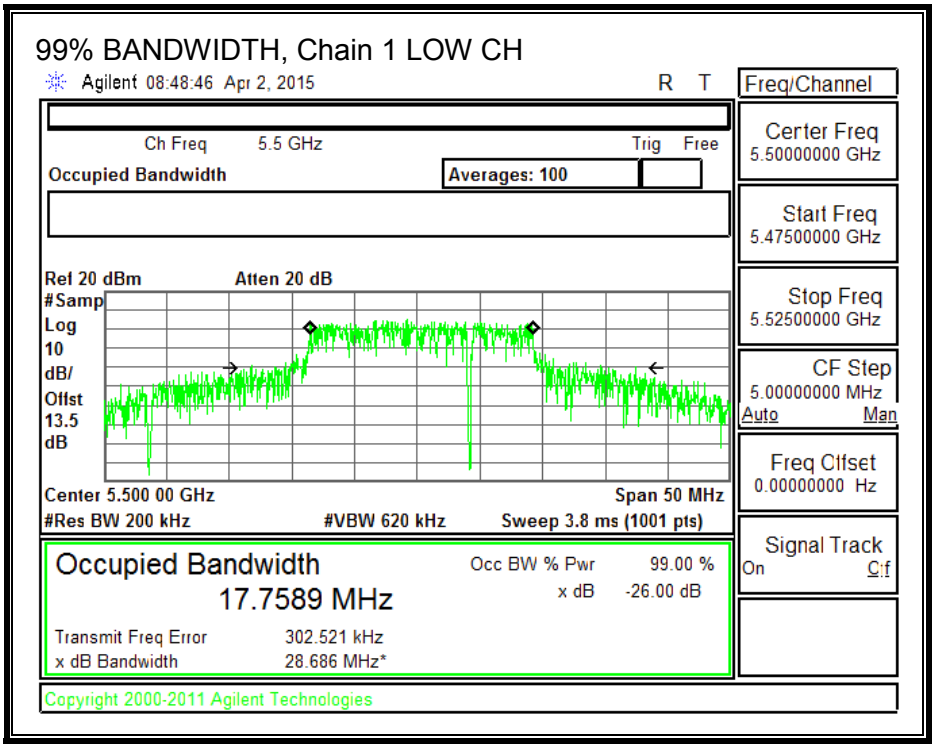


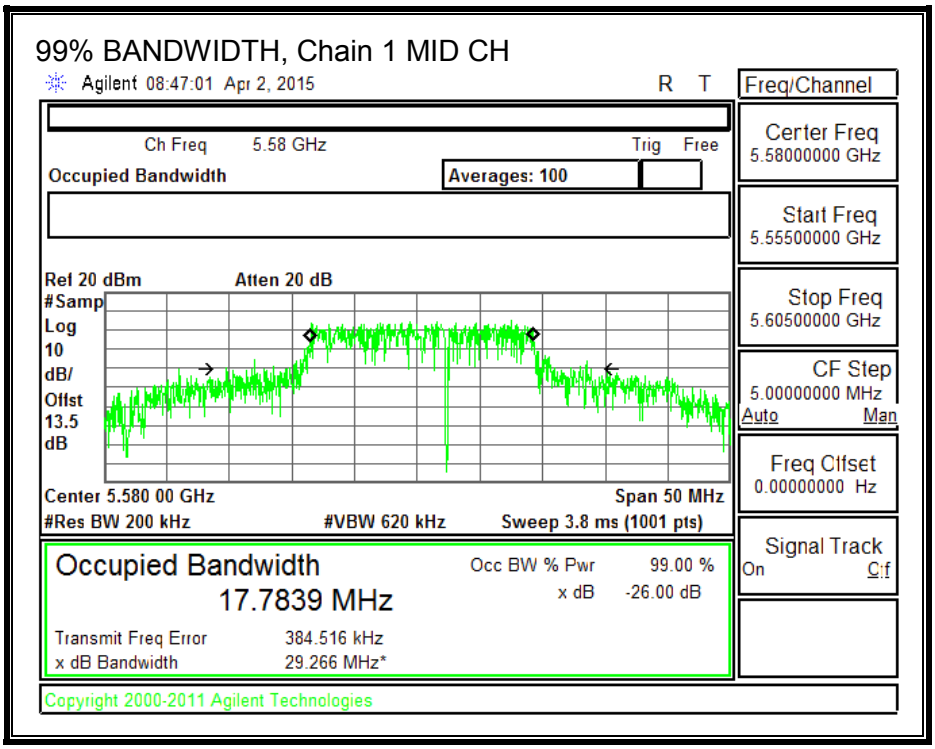


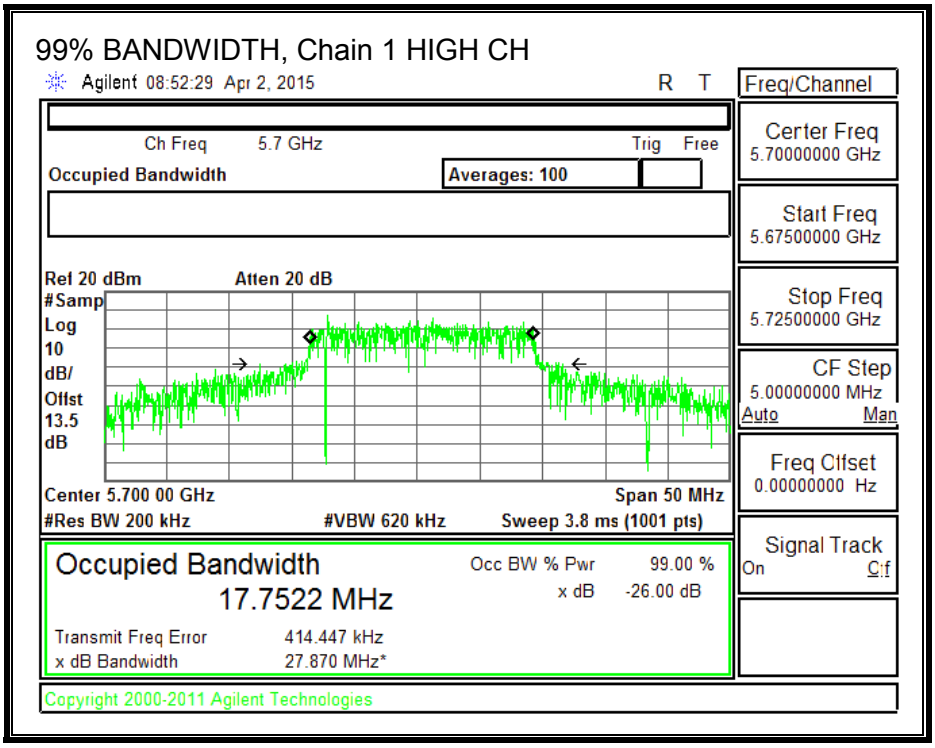


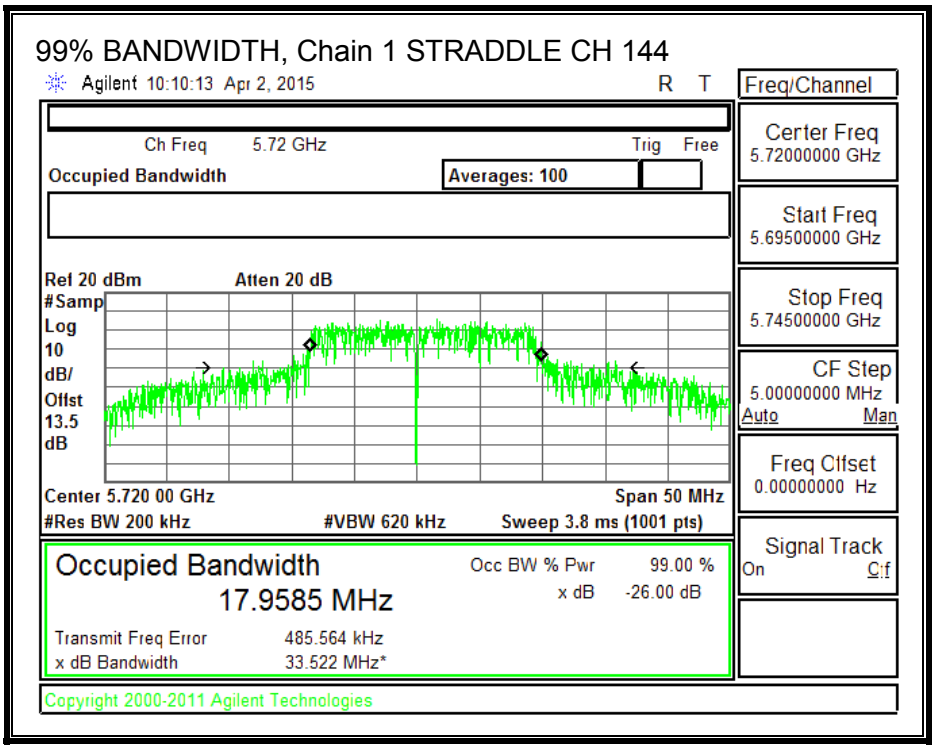


99% BANDWIDTH, Chain 1

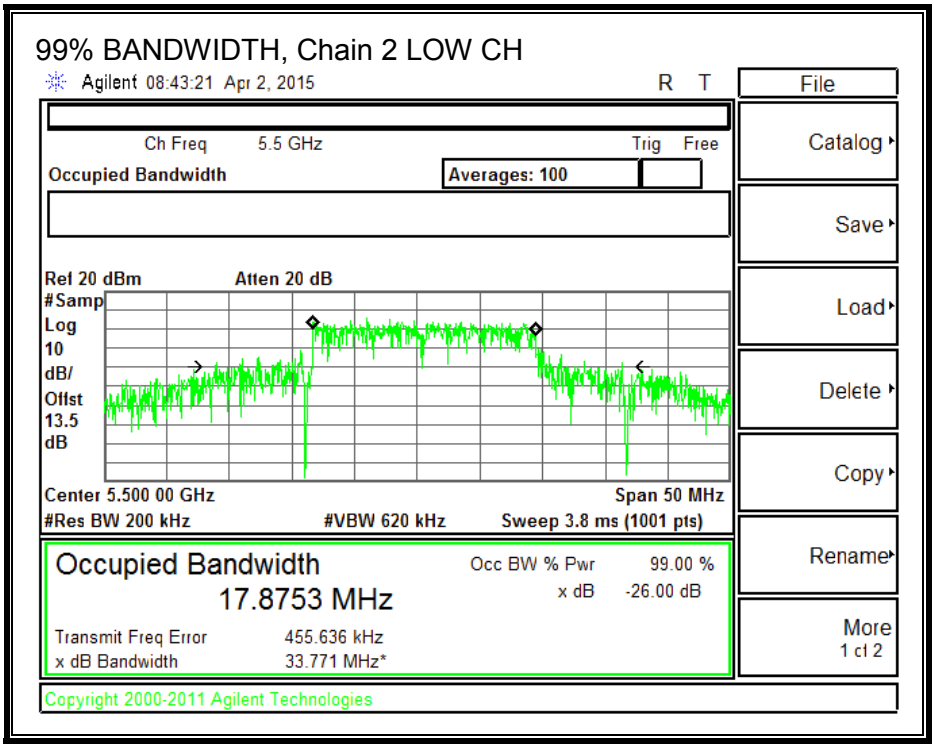


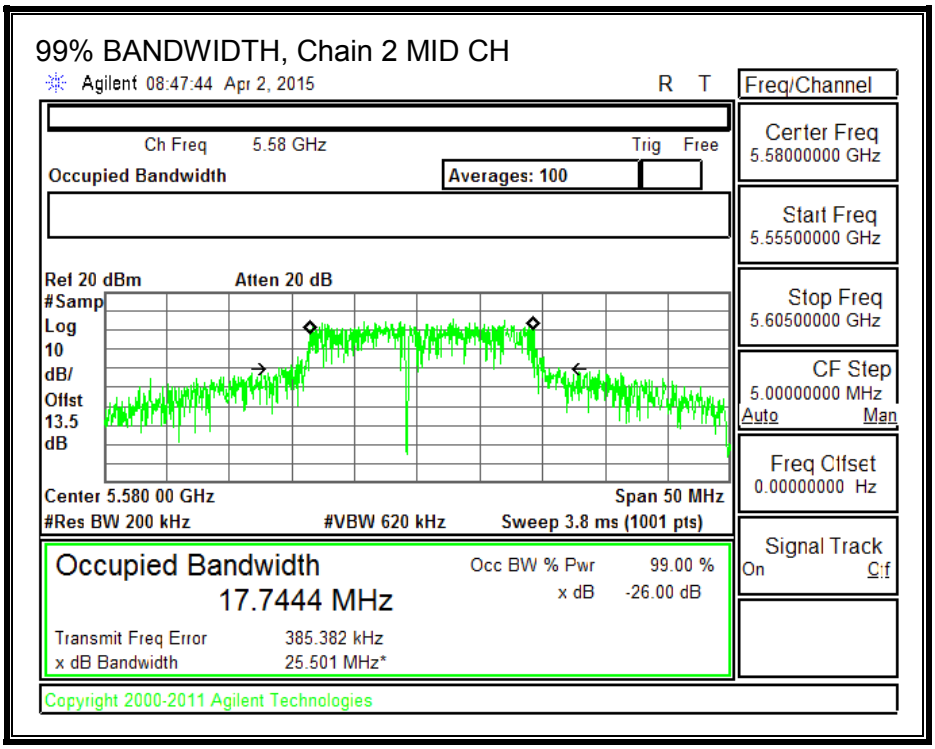


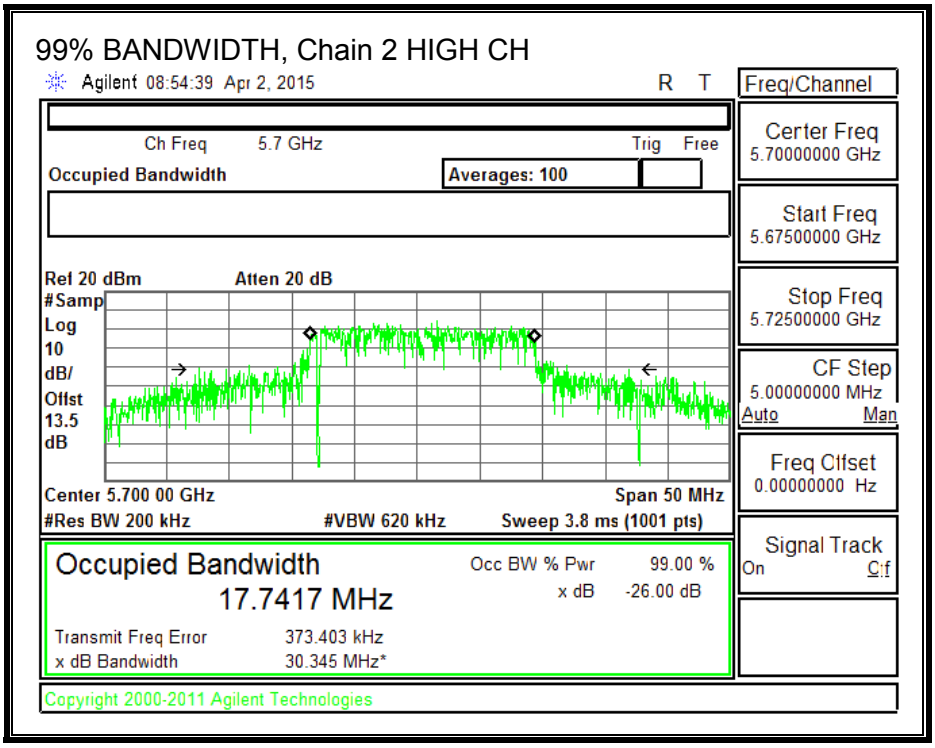


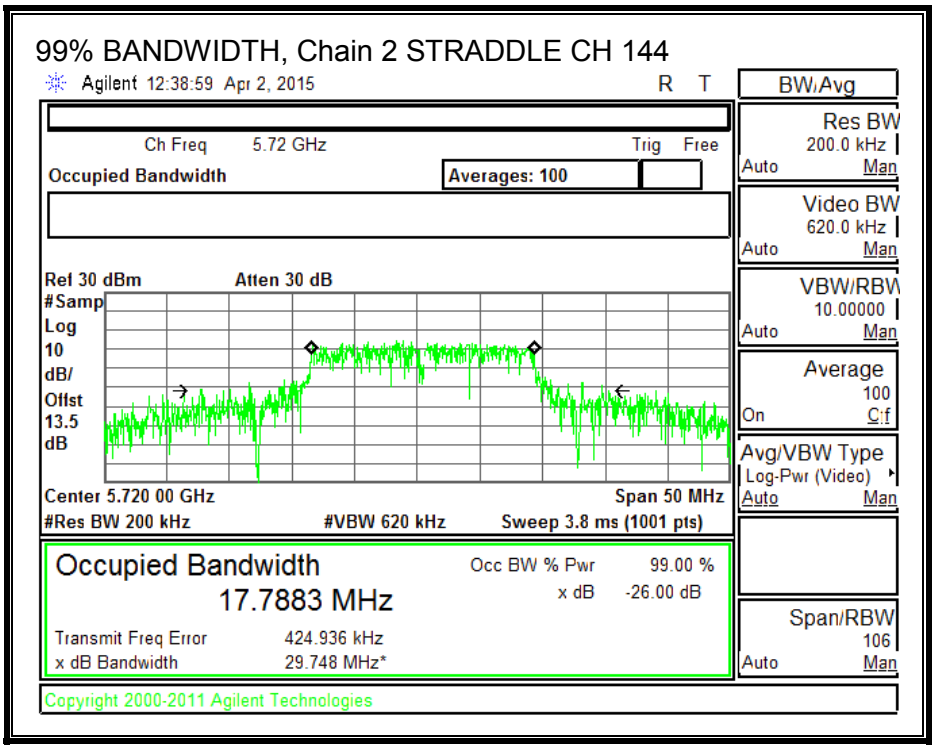


99% BANDWIDTH, Chain 2









8.25.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

For power and PSD, the TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain, 6.21 dBi.

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5500	42.18	6.21	6.21	23.79	10.79
Mid	5580	44.16	6.21	6.21	23.79	10.79
High	5700	42.30	6.21	6.21	23.79	10.79

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD

Output Power 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)	Power Margin (dB)
Low	5500	16.15	16.61	16.58	21.22	23.79	-2.57
Mid	5580	18.40	18.45	18.40	23.19	23.79	-0.60
High	5700	13.08	13.82	13.56	18.27	23.79	-5.52

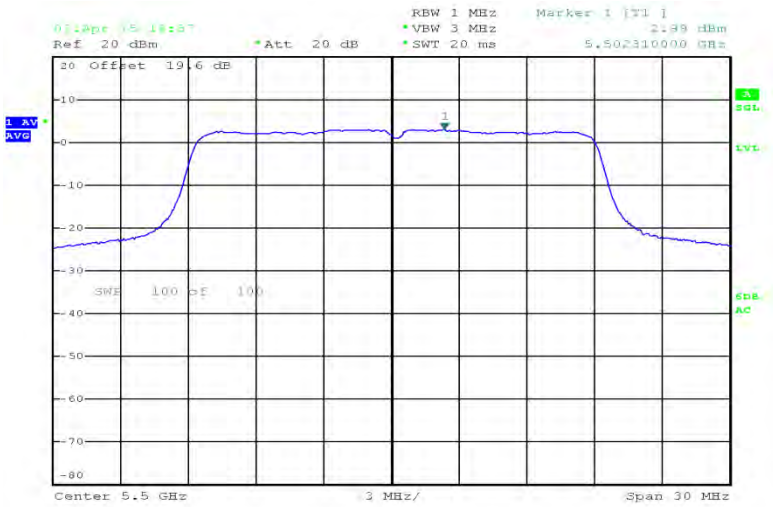
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5500	2.99	3.38	3.17	7.95	10.79	-2.84
Mid	5580	3.24	3.64	3.24	8.15	10.79	-2.64
High	5700	2.61	3.18	2.83	7.65	10.79	-3.14

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

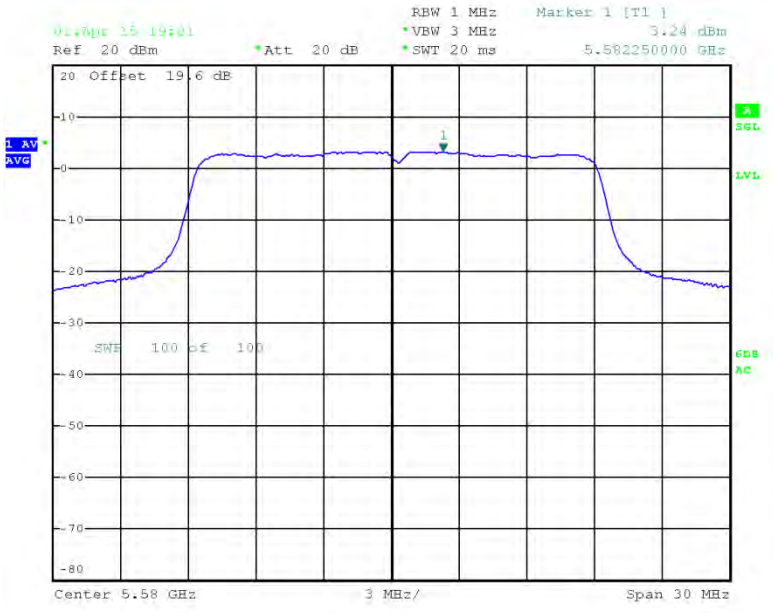
PSD, Chain 0

PSD, Chain 0 LOW CH



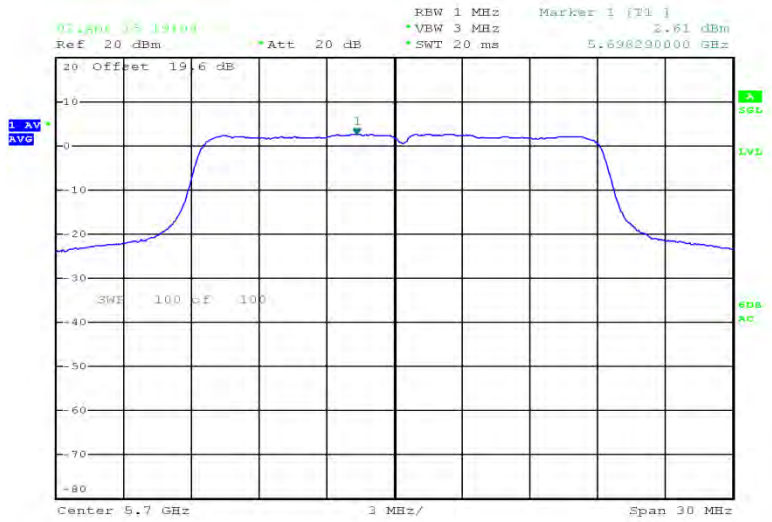
Date: 2.APR.2015 18:57:07

PSD, Chain 0 MID CH



Date: 2.APR.2015 19:01:11

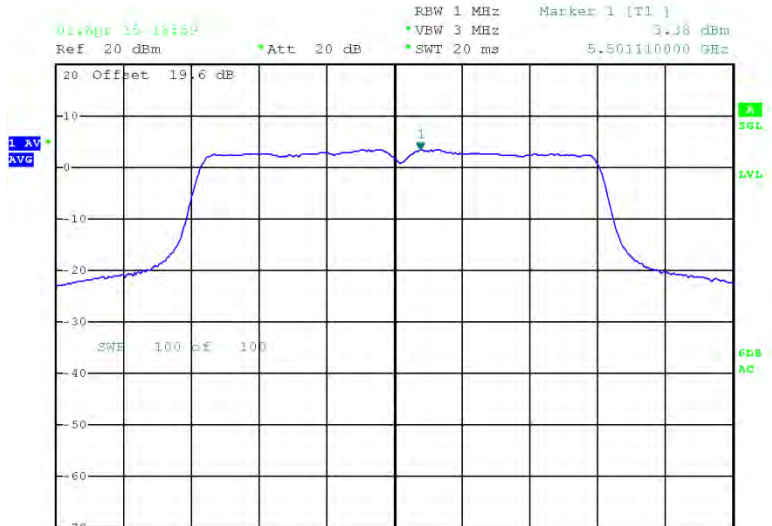
PSD, Chain 0 HIGH CH



Date: 2.APR.2015 19:04:36

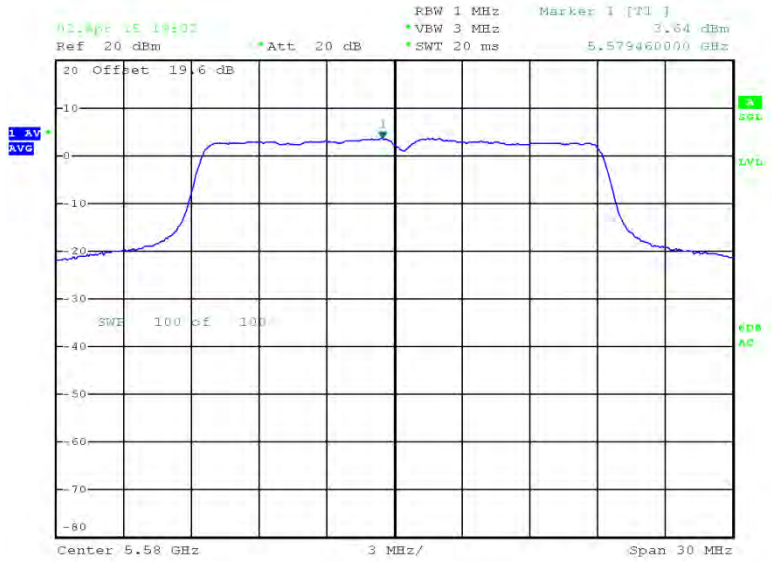
PSD, Chain 1

PSD, Chain 1 LOW CH



Date: 2.APR.2015 18:59:19

PSD, Chain 1 MID CH



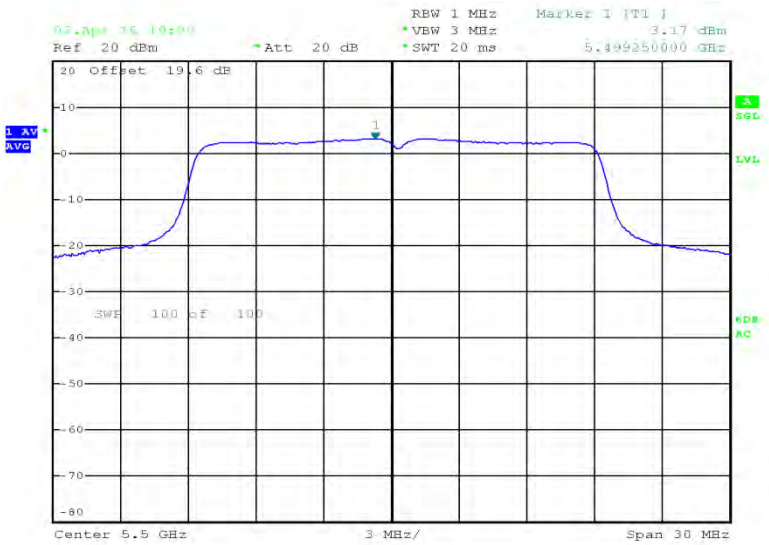
Date: 2.APR.2015 19:02:04

PSD, Chain 1 HIGH CH

Date: 2.APR.2015 19:05:38

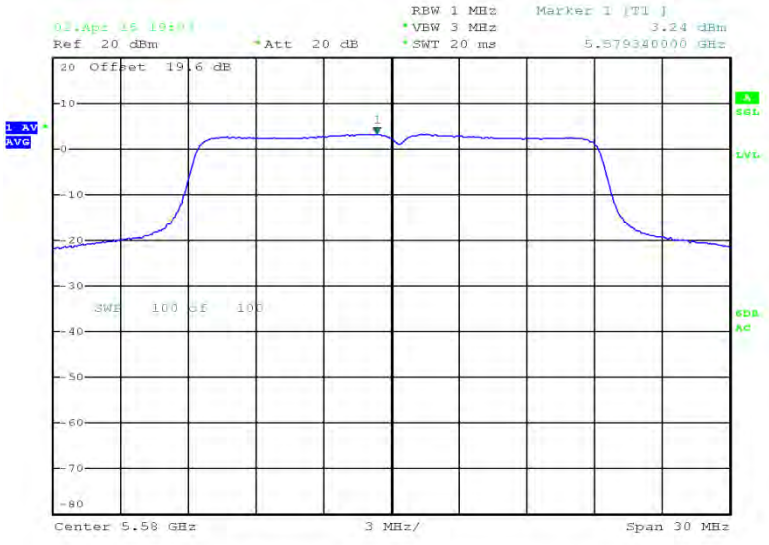
PSD, Chain 2

PSD, Chain 2 LOW CH



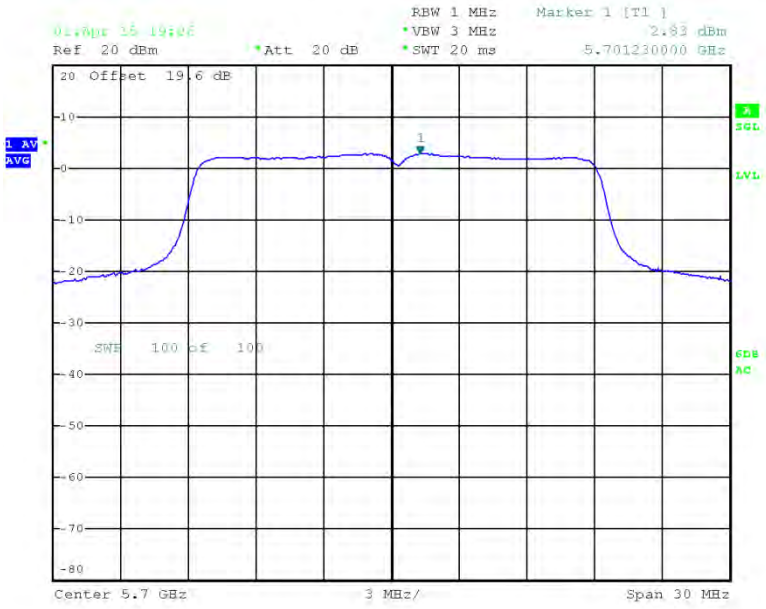
Date: 2.APR.2015 19:00:13

PSD, Chain 2 MID CH



Date: 2.APR.2015 19:03:21

OUTPUT POWER AND PSD, Chain 2 HIGH CH



STRADDLE CHANNEL 144 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
144	5720	27.02	6.21	6.21	23.79	10.79

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD

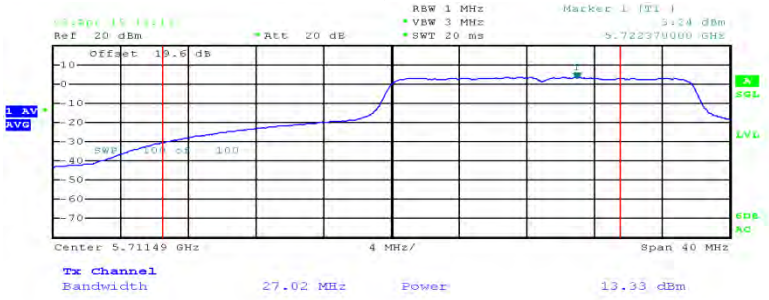
Output Power Results

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)	Power Margin (dB)
144	5720	13.33	13.40	13.28	18.11	23.79	-5.68

PSD Results

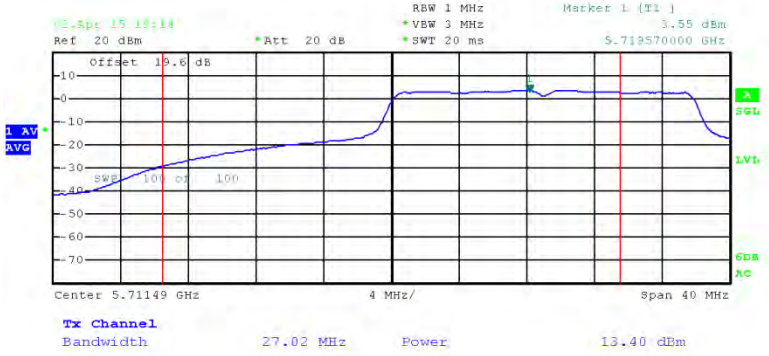
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
144	5720	3.24	3.55	3.31	8.14	10.79	-2.65

OUTPUT POWER AND PSD, Chain 0 CH 144 UNII



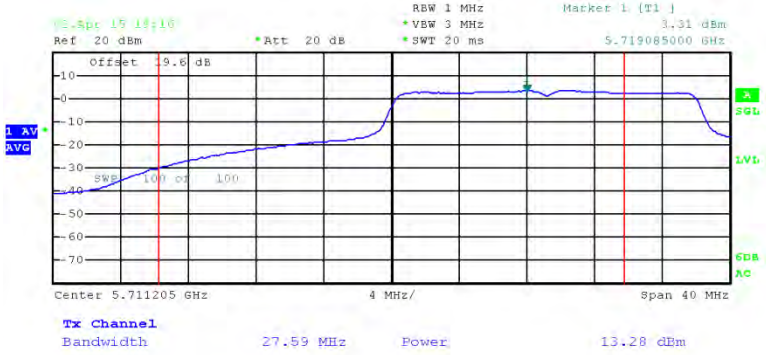
Date: 2.APR.2015 19:13:36

OUTPUT POWER AND PSD, Chain 1 CH 144 UNII



Date: 2.APR.2015 19:14:47

OUTPUT POWER AND PSD, Chain 2 CH 144 UNII



UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
144	5720	6.21	6.21	29.79	29.79

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD

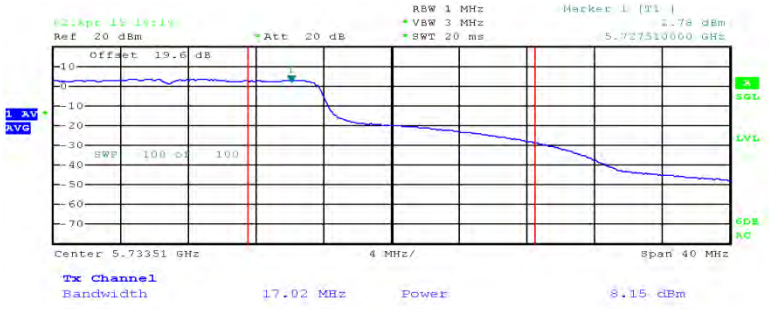
Output Power Results

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)	Power Margin (dB)
144	5720	8.15	8.51	8.04	13.01	29.79	-16.78

PSD Results

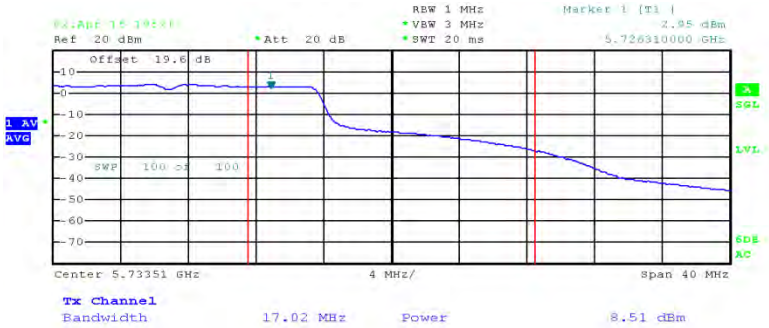
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
144	5720	2.78	2.95	2.57	7.54	29.79	-22.25

OUTPUT POWER and PSD, Chain 0 CH 144 UNII-3



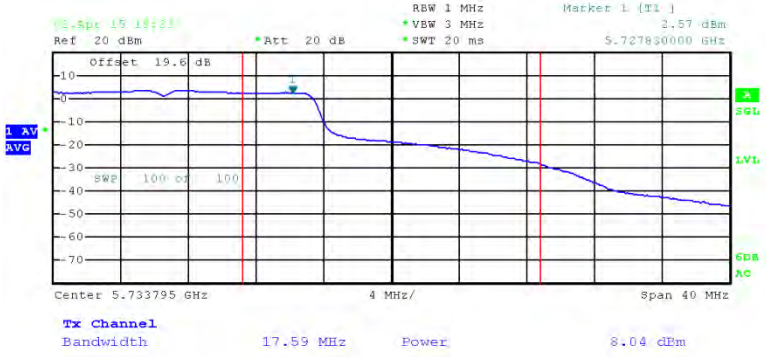
Date: 2.APR.2015 19:19:21

OUTPUT POWER and PSD, Chain 1 CH 144 UNII-3



Date: 2.APR.2015 19:21:16

OUTPUT POWER and PSD, Chain 2 CH 144 UNII-3



Date: 2.APR.2015 19:23:28

8.25.4. AVERAGE OUTPUT POWER (WHOLE FUNDAMENTAL)

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

RESULTS

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)
144	5720	18.87	18.90	19.00	23.69

8.26. 802.11n HT20 TxBF 3Tx MODE IN THE 5.6 GHz BAND

8.26.1. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

For power and PSD, 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)
6.21	4.77	10.98

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5500	42.84	10.98	10.98	19.02	6.02
Mid	5580	45.00	10.98	10.98	19.02	6.02
High	5700	44.22	10.98	10.98	19.02	6.02

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd PSD

Output Power 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)	Power Margin (dB)
Low	5500	13.20	13.90	13.60	18.35	19.02	-0.67
Mid	5580	13.15	14.00	13.56	18.36	19.02	-0.66
High	5700	12.90	13.78	13.45	18.16	19.02	-0.86

PSD Results

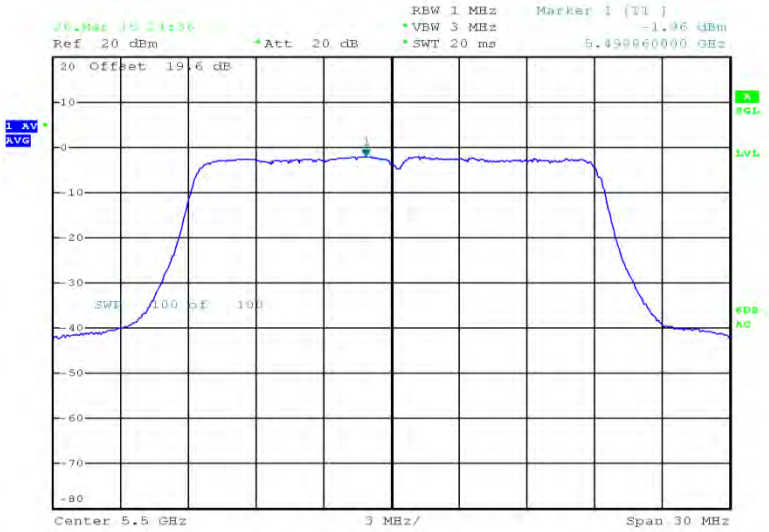
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5500	-1.96	-1.04	-1.46	3.30	6.02	-2.72
Mid	5580	-1.59	-0.80	-1.26	3.57	6.02	-2.45
High	5700	-1.83	-1.19	-1.52	3.27	6.02	-2.75

Note: for Chains 0, 1 and 2, 26dB & 99% data & plots, see section 11n HT20 CDD 3TX MODE IN THE 5.6 GHz BAND

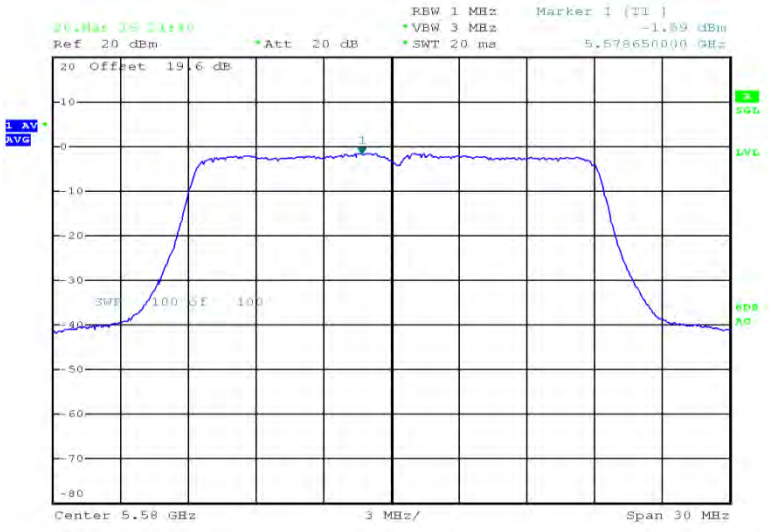
Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

PSD, Chain 0

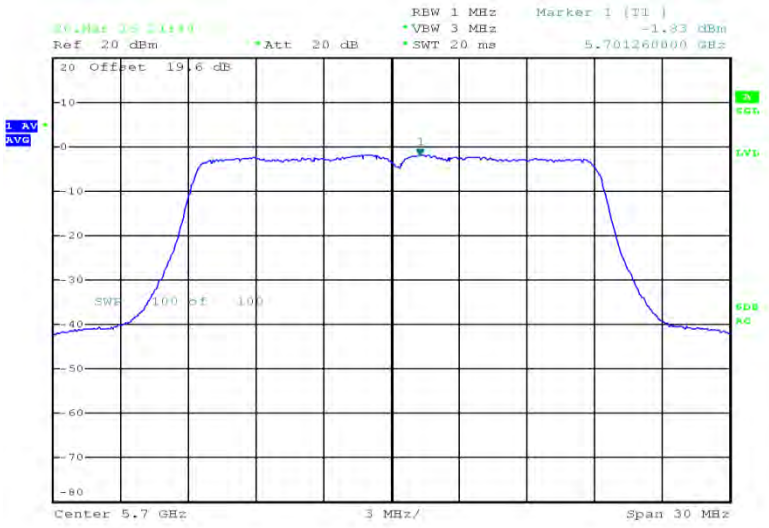
PSD, Chain 0 LOW CH



PSD, Chain 0 MID CH

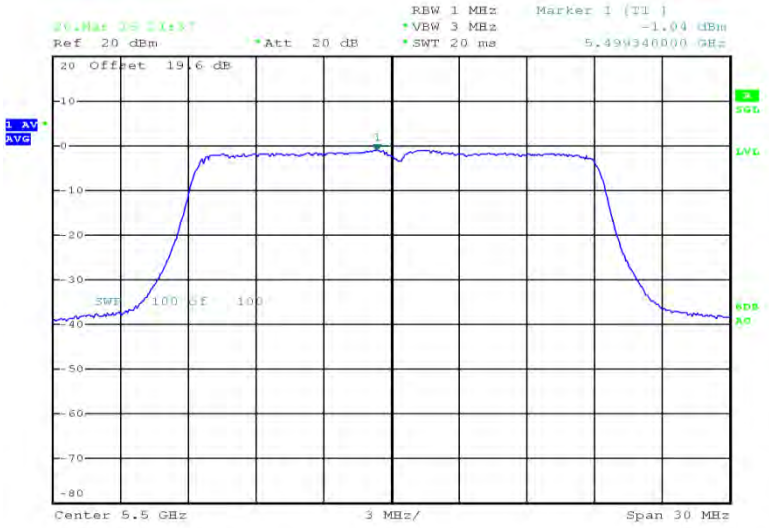


PSD, Chain 0 HIGH CH

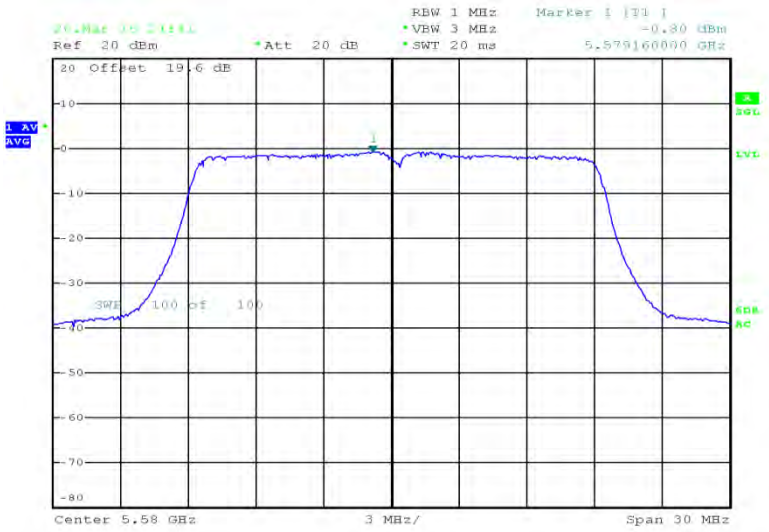


PSD, Chain 1

PSD, Chain 1 LOW CH

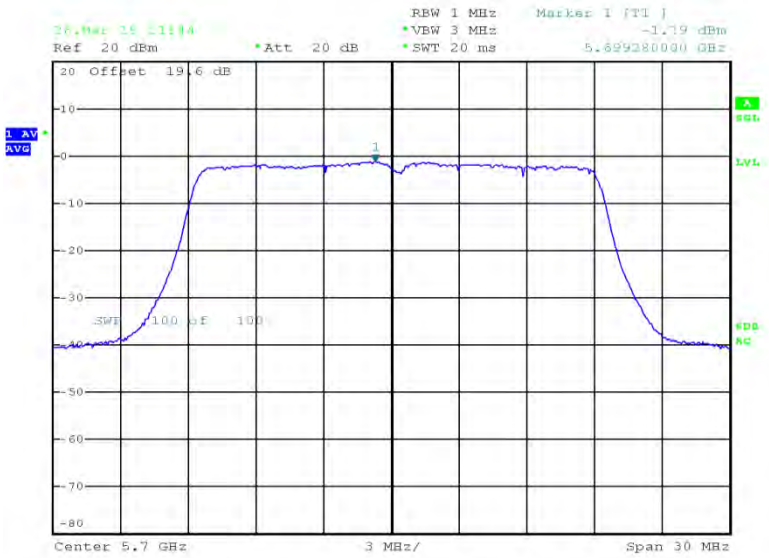


PSD, Chain 1 MID CH



Date: 26.MAR.2015 21:41:04

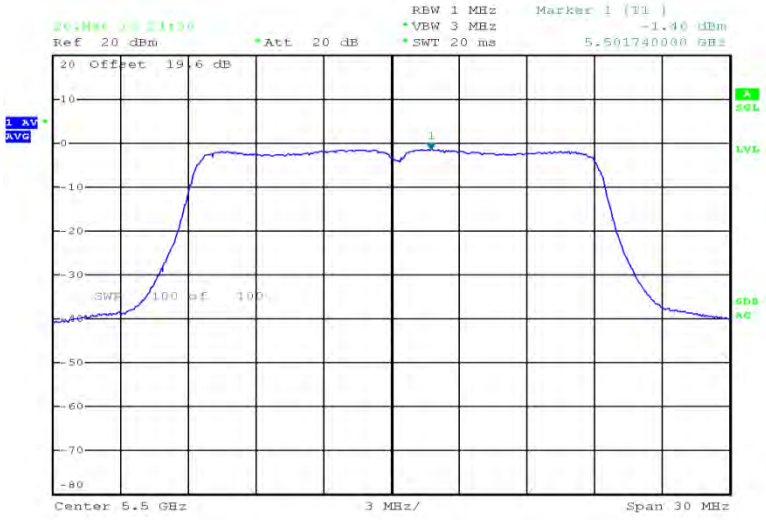
PSD, Chain 1 HIGH CH



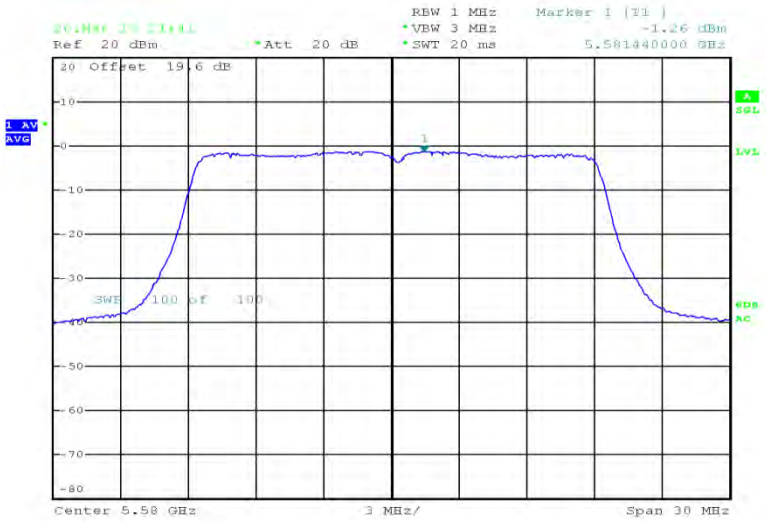
Date: 26.MAR.2015 21:44:58

PSD, Chain 2

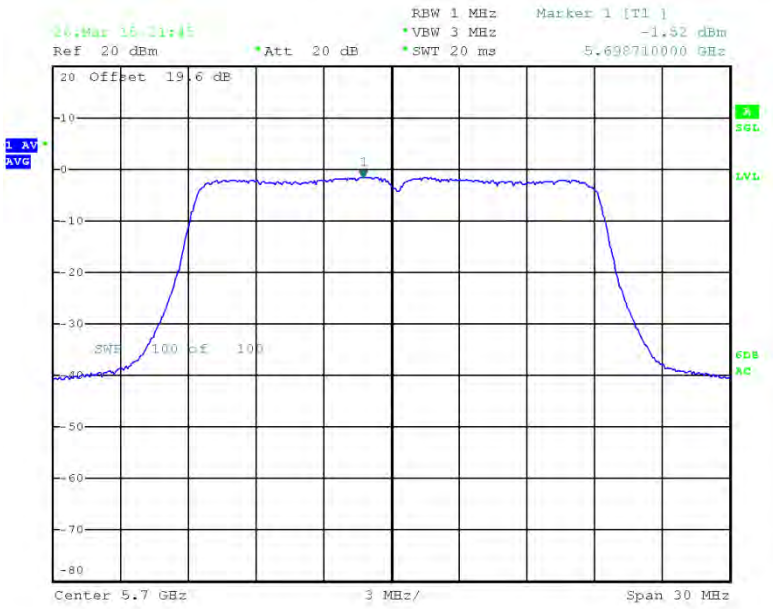
PSD, Chain 2 LOW CH



PSD, Chain 2 MID CH



PSD, Chain 2 HIGH CH



STRADDLE CHANNEL 144 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
144	5720	22.67	10.98	10.98	19.02	6.02

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD

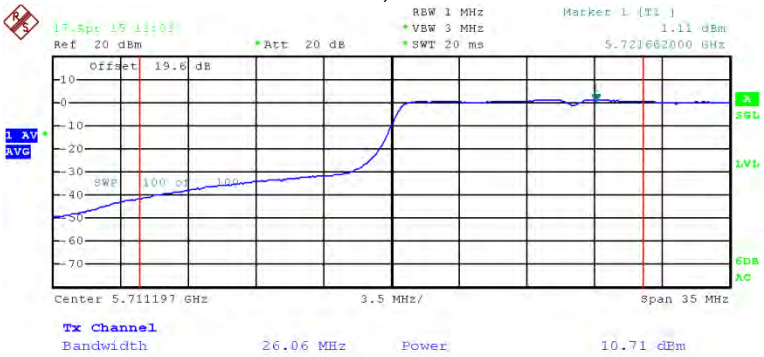
Output Power Results

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)	Power Margin (dB)
144	5720	10.71	11.27	10.88	15.73	19.02	-3.29

PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
144	5720	1.11	1.17	1.14	5.91	6.02	-0.11

OUTPUT POWER AND PSD, Chain 0 CH 144 UNII

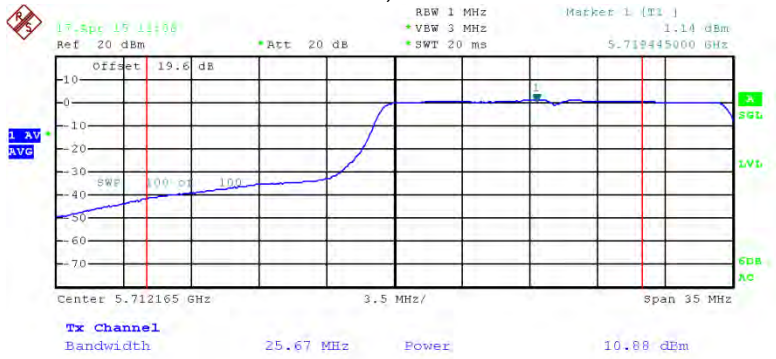


Date: 17.APR.2015 11:02:38

OUTPUT POWER AND PSD, Chain 1 CH 144 UNII

Date: 17.APR.2015 11:06:57

OUTPUT POWER AND PSD, Chain 2 CH 144 UNII



Date: 17.APR.2015 11:08:36

UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
144	5720	10.98	10.98	25.02	25.02

Duty Cycle CF (dB)	0.00	Included in Calculations of Corr'd Power & PSD

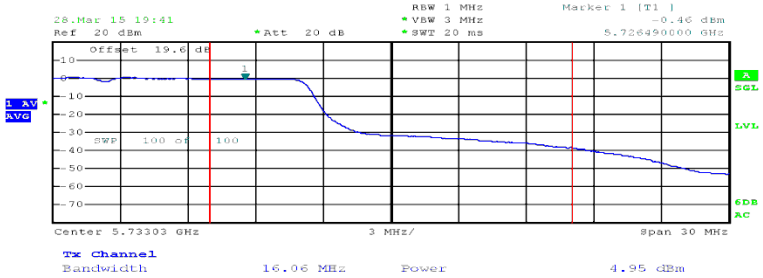
Output Power Results

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)	Power Margin (dB)
144	5720	4.95	5.62	5.35	10.09	25.02	-14.93

PSD Results

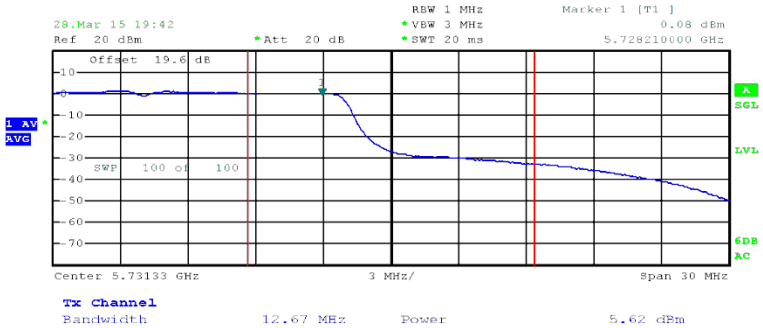
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
144	5720	-0.46	0.08	-0.16	4.60	25.02	-20.42

OUTPUT POWER AND PSD, Chain 0 CH 144 UNII-3



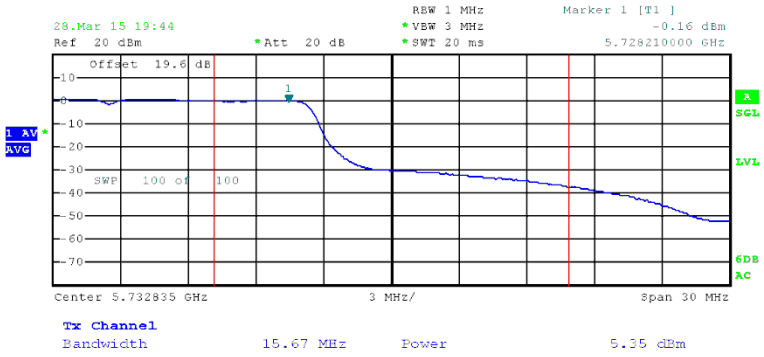
Date: 28.MAR.2015 19:41:23

OUTPUT POWER AND PSD, Chain 1 CH 144 UNII-3



Date: 28.MAR.2015 19:42:57

OUTPUT POWER AND PSD, Chain 2 CH 144 UNII-3



Date: 28.MAR.2015 19:44:56

8.26.2. AVERAGE OUTPUT POWER (WHOLE FUNDAMENTAL)

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

RESULTS

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)
144	5720	18.98	18.80	18.75	23.62

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.27. 802.11n HT40 1Tx MODE IN THE 5.6 GHz BAND

8.27.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

This is SISO mode, AG is the highest (worst-case) = 6.21 dBi

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)
Low	5510	96.48	6.21	23.79
High	5670	98.64	6.21	23.79

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5510	12.77	12.77	23.79	-11.02
High	5670	17.55	17.55	23.79	-6.24

Note: for Chain 0, 26dB data & plots, see section 11n HT40 CDD 3TX MODE IN THE 5.6 GHz BAND.

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.28. 802.11n HT40 CDD 3Tx MODE IN THE 5.6 GHz BAND

8.28.1. 26 dB BANDWIDTH

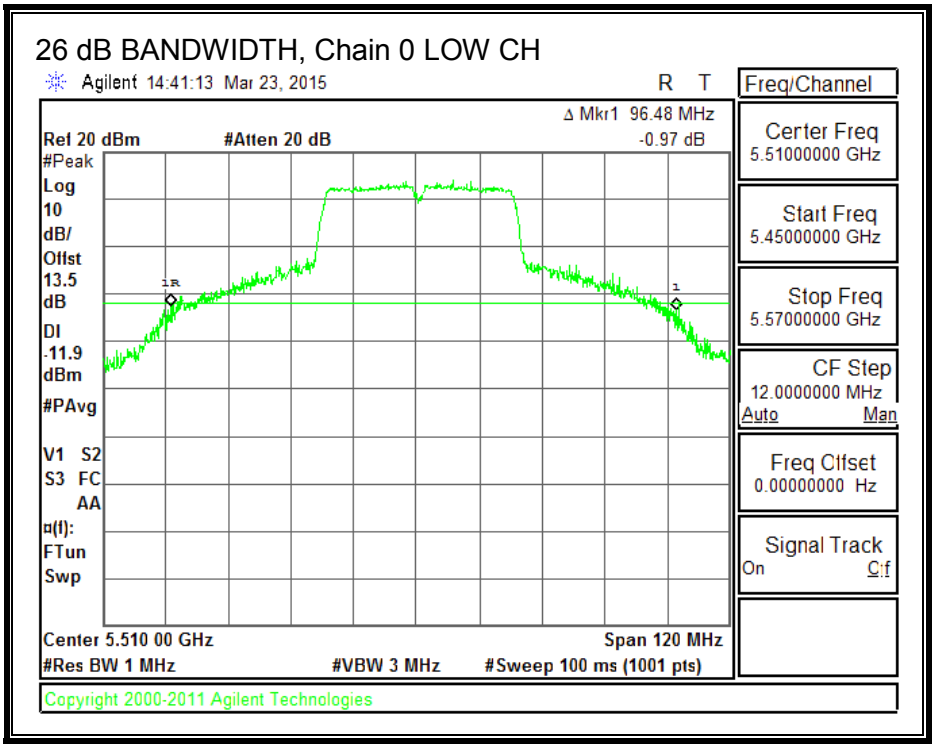
LIMITS

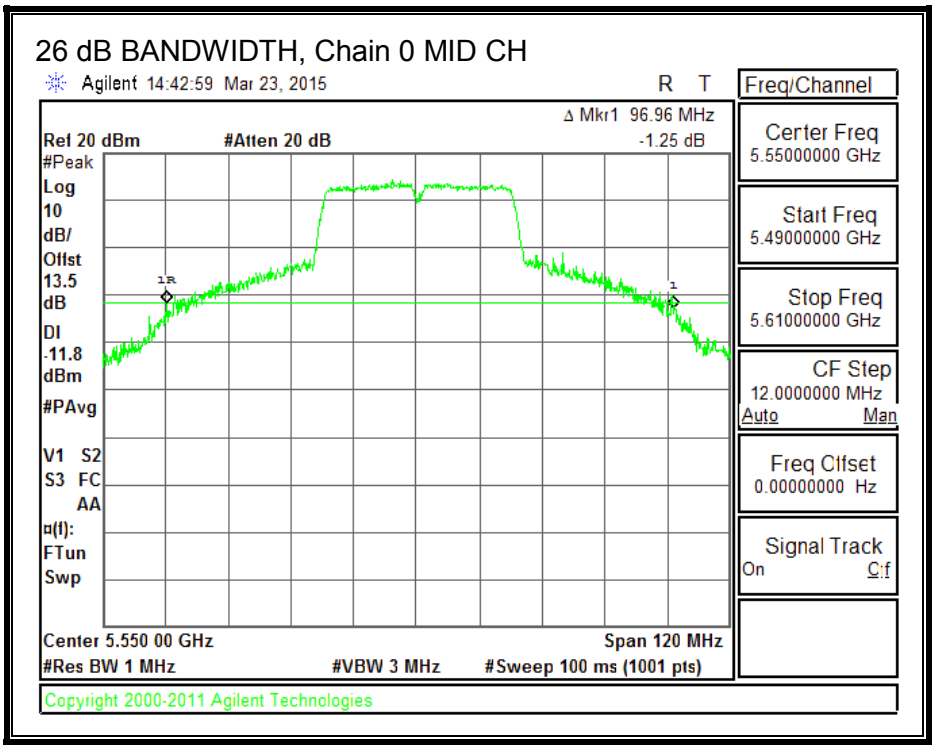
None; for reporting purposes only.

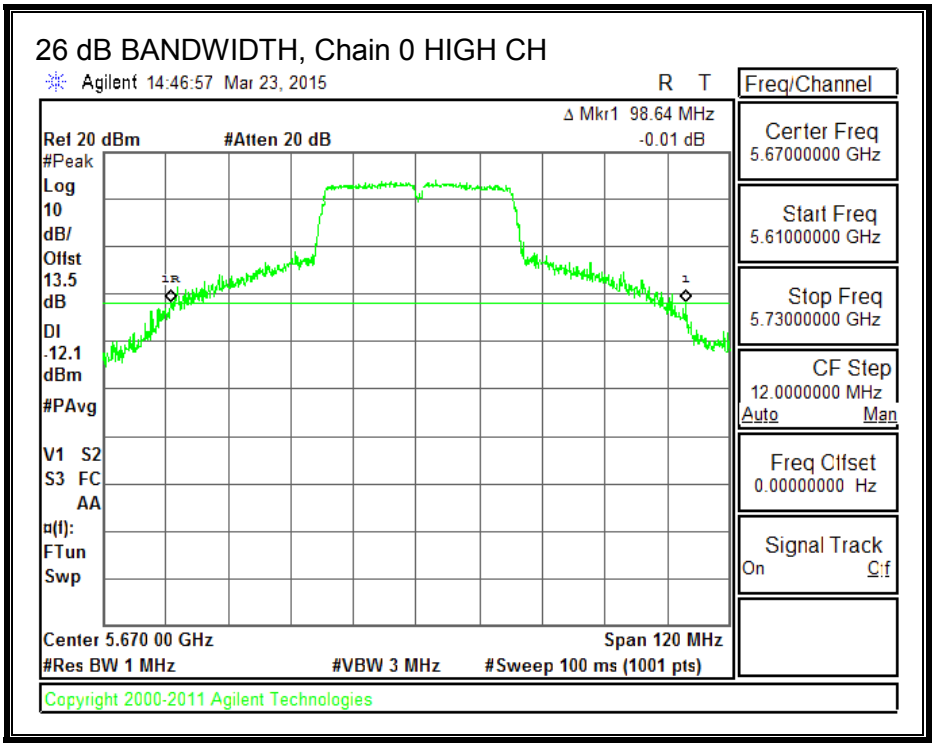
RESULTS

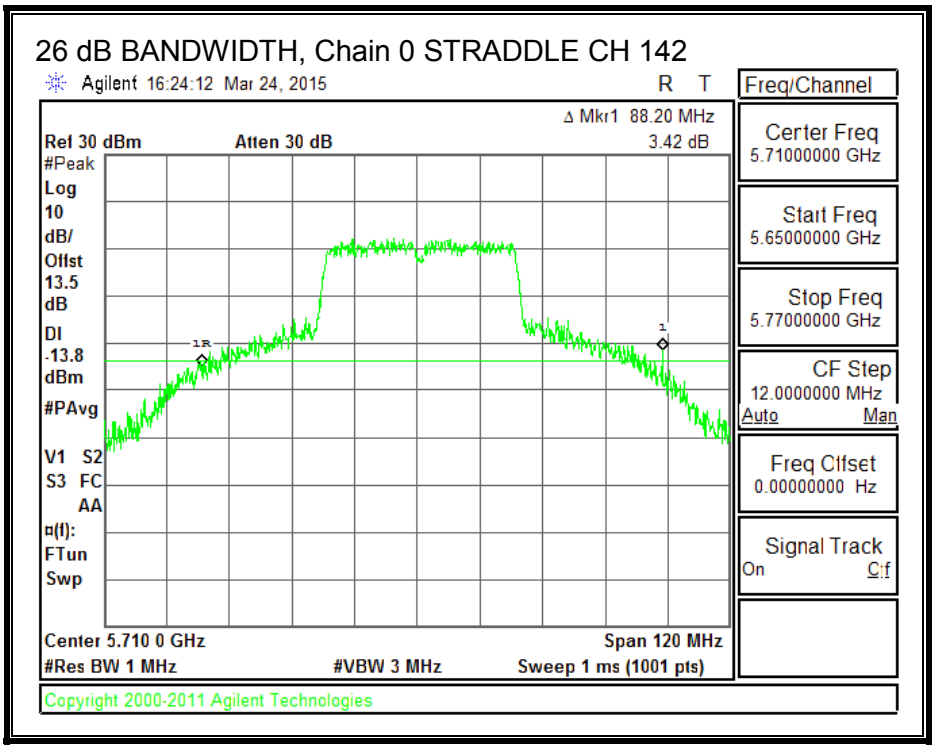
Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)	26 dB BW Chain 2 (MHz)
Low	5510	96.48	94.44	95.04
Mid	5550	96.96	92.64	90.72
High	5670	98.64	93.00	95.04
142	5710	88.20	86.28	87.60

26 dB BANDWIDTH, Chain 0

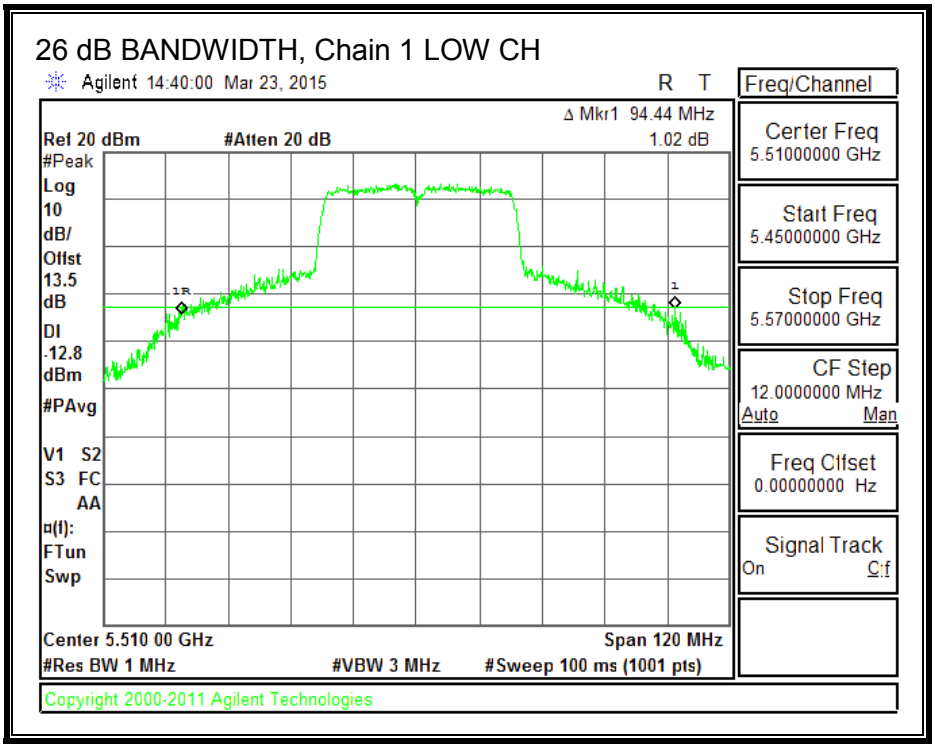


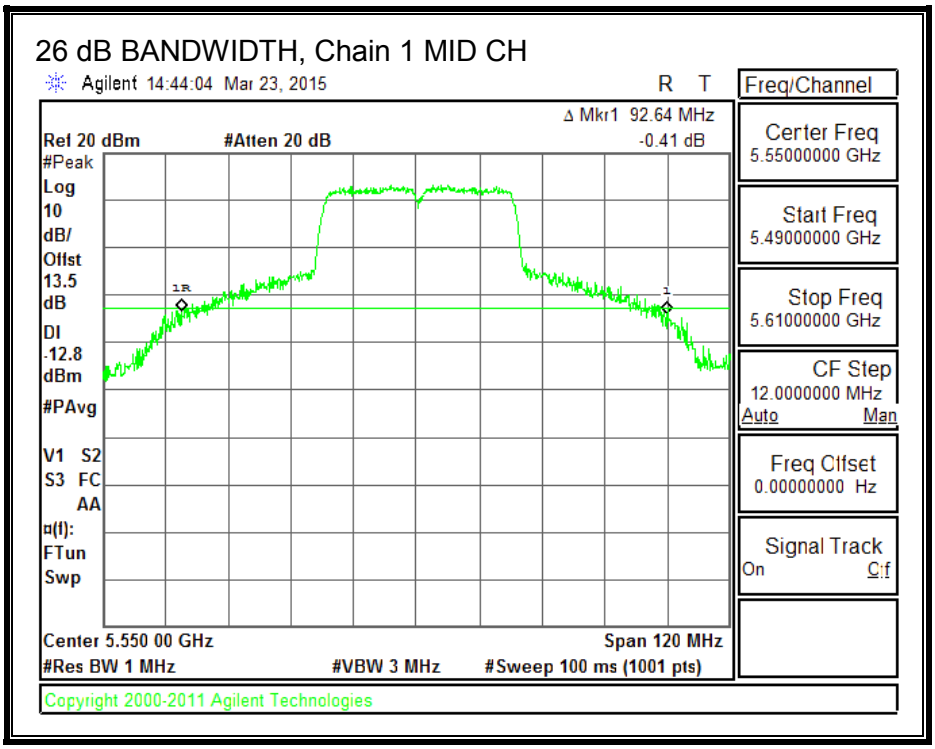


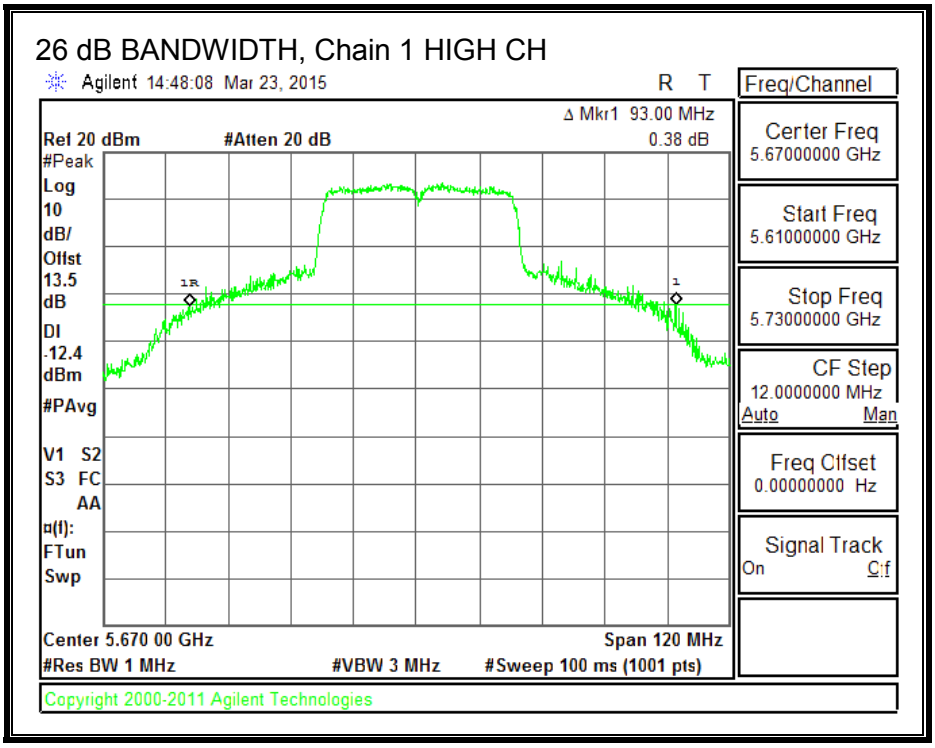


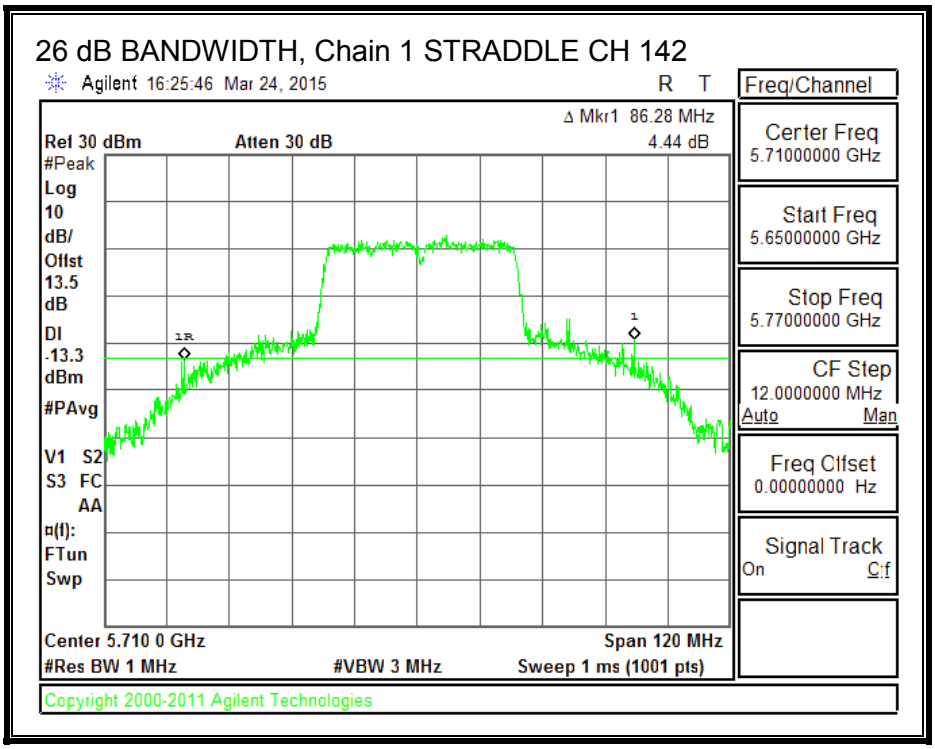


26 dB BANDWIDTH, Chain 1

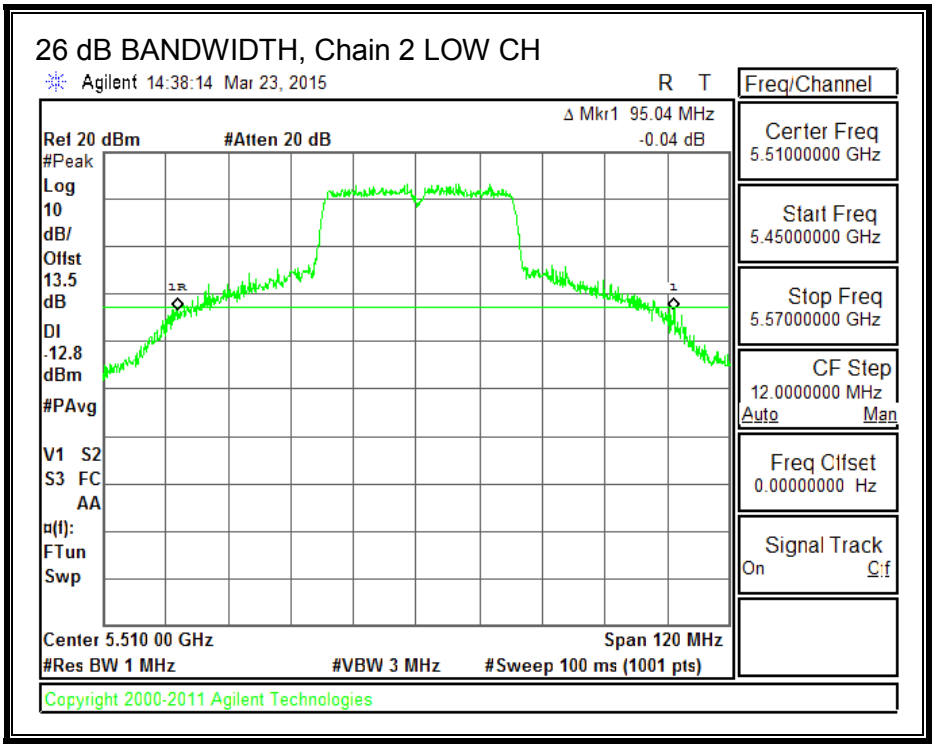


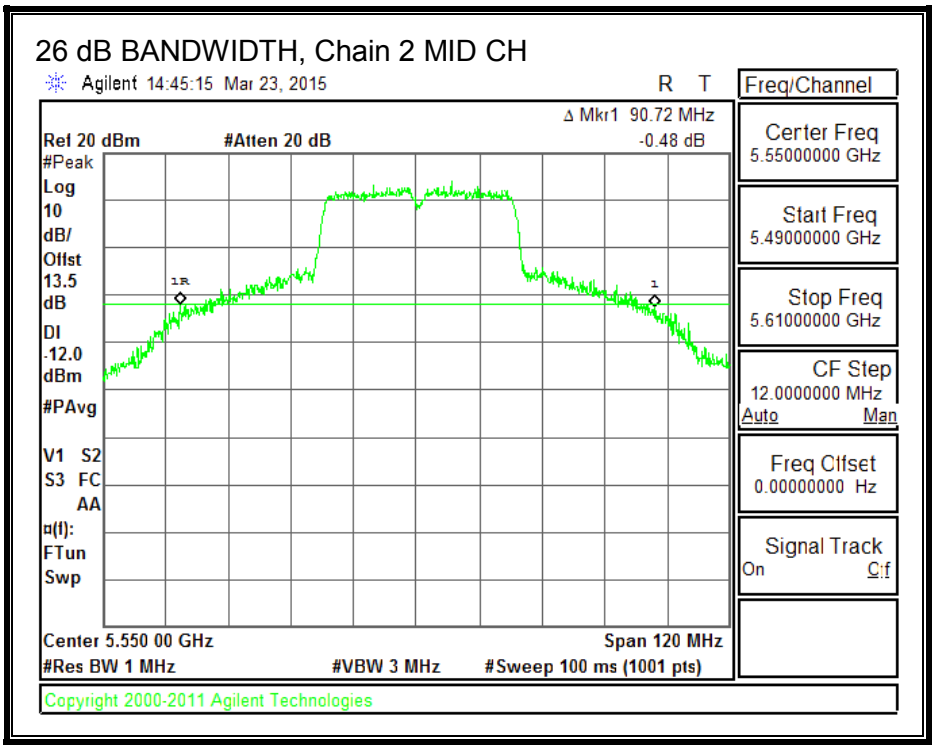


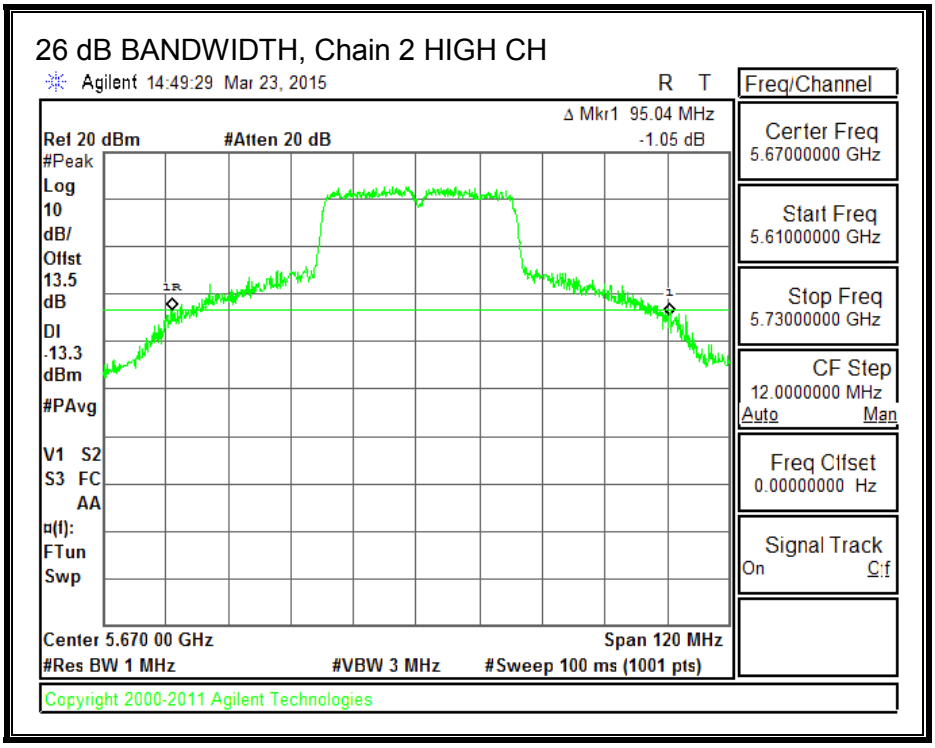


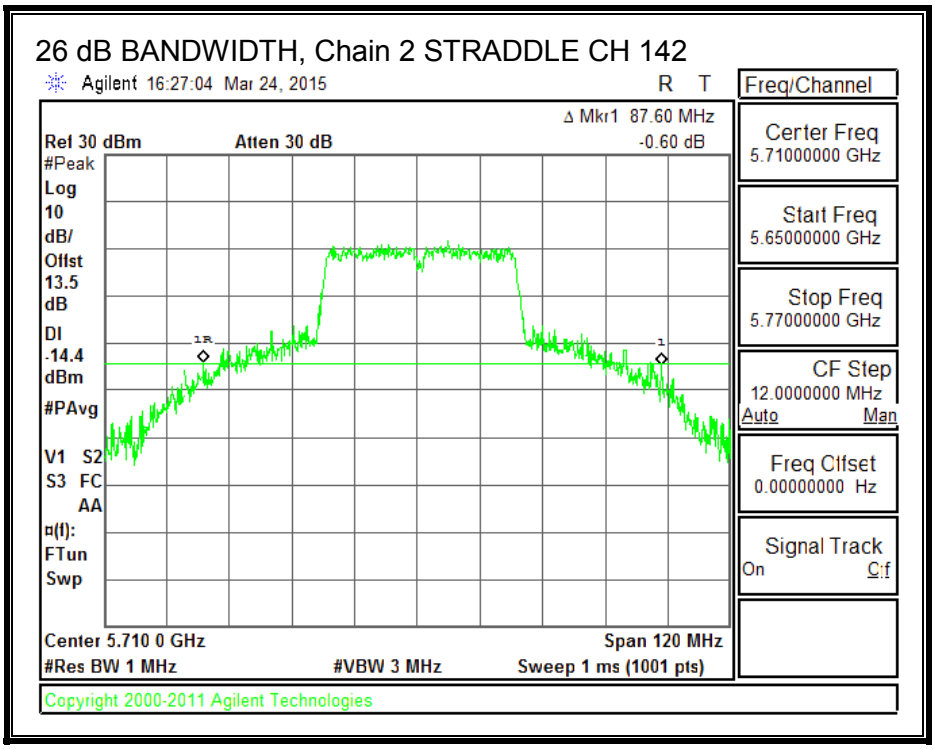


26 dB BANDWIDTH, Chain 2









8.28.2. 99% BANDWIDTH

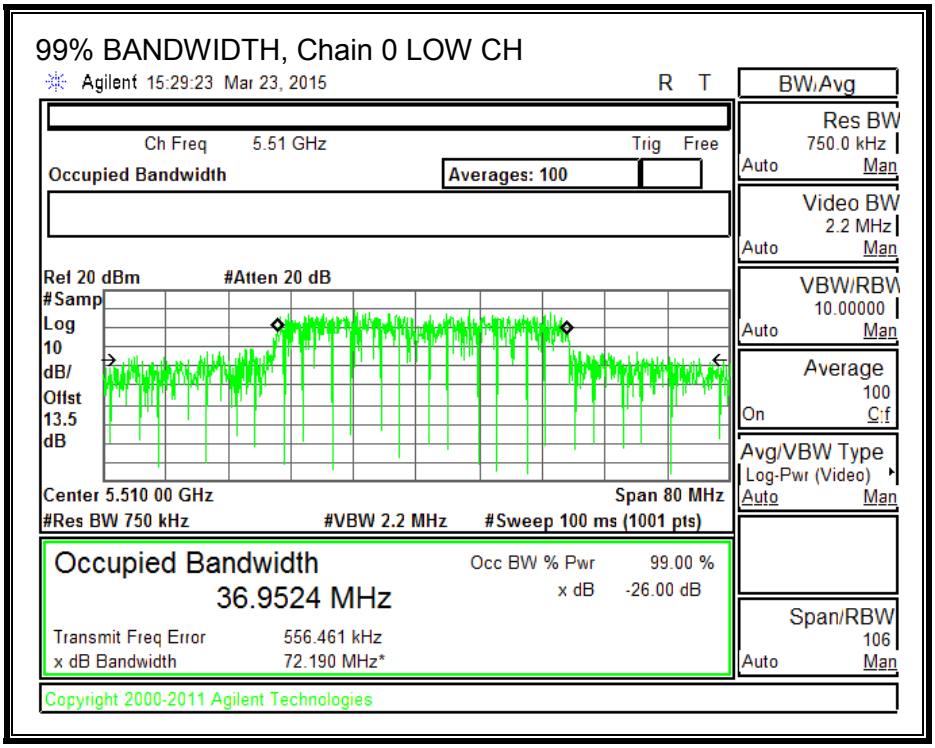
LIMITS

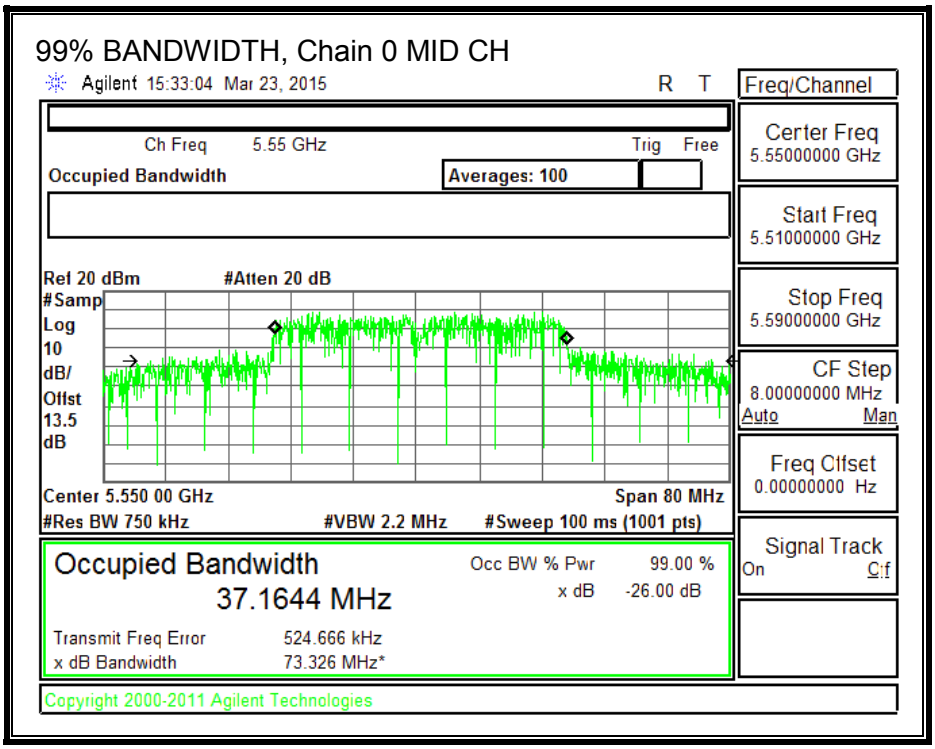
None; for reporting purposes only.

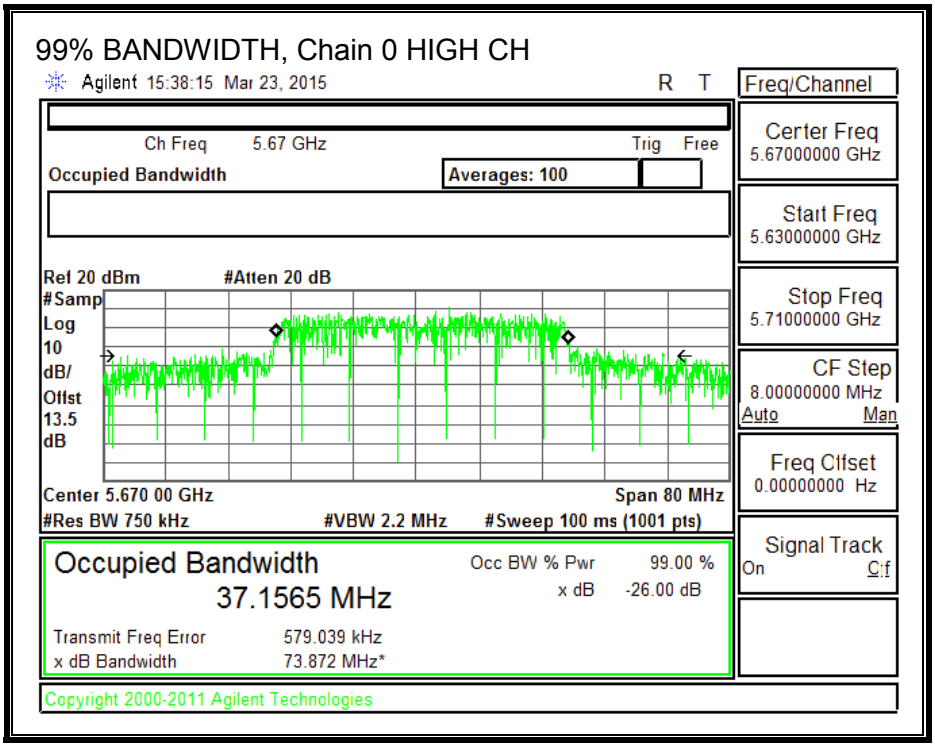
RESULTS

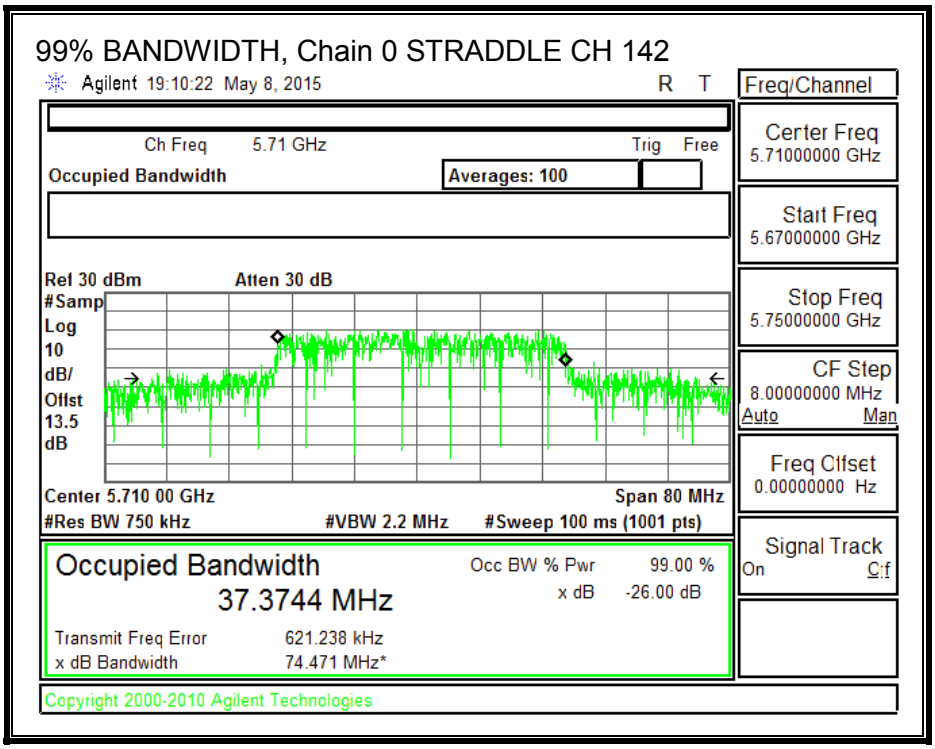
Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)	99% BW Chain 2 (MHz)
Low	5510	36.9524	37.7159	36.8017
Mid	5550	37.1644	36.7699	36.8932
High	5670	37.1565	36.7697	37.2609
142	5710	37.3744	36.8254	37.0058

99% BANDWIDTH, Chain 0

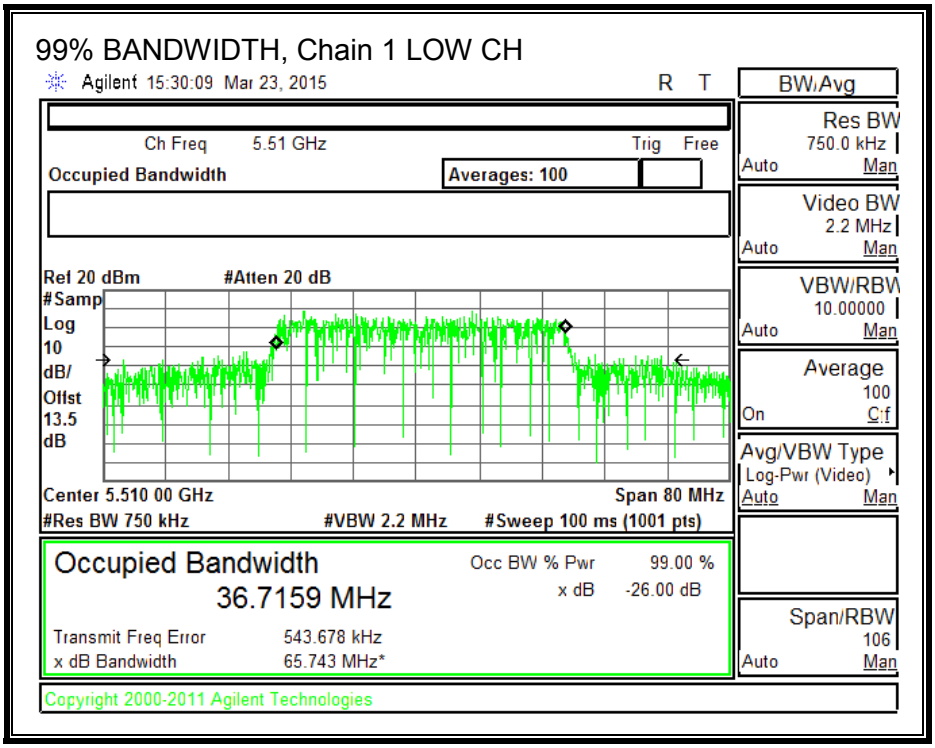


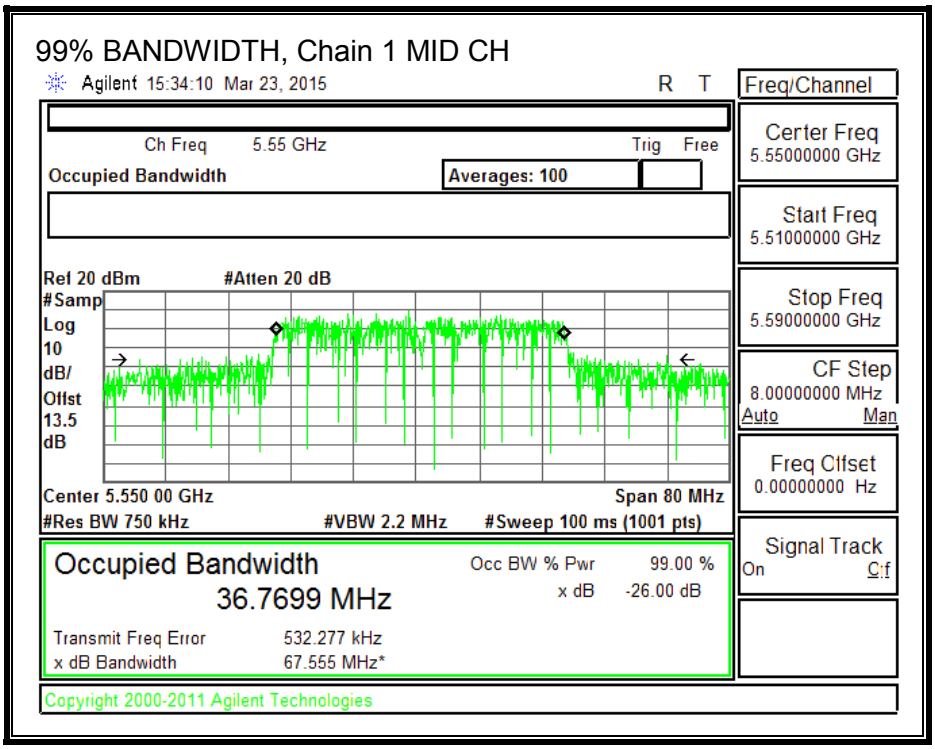


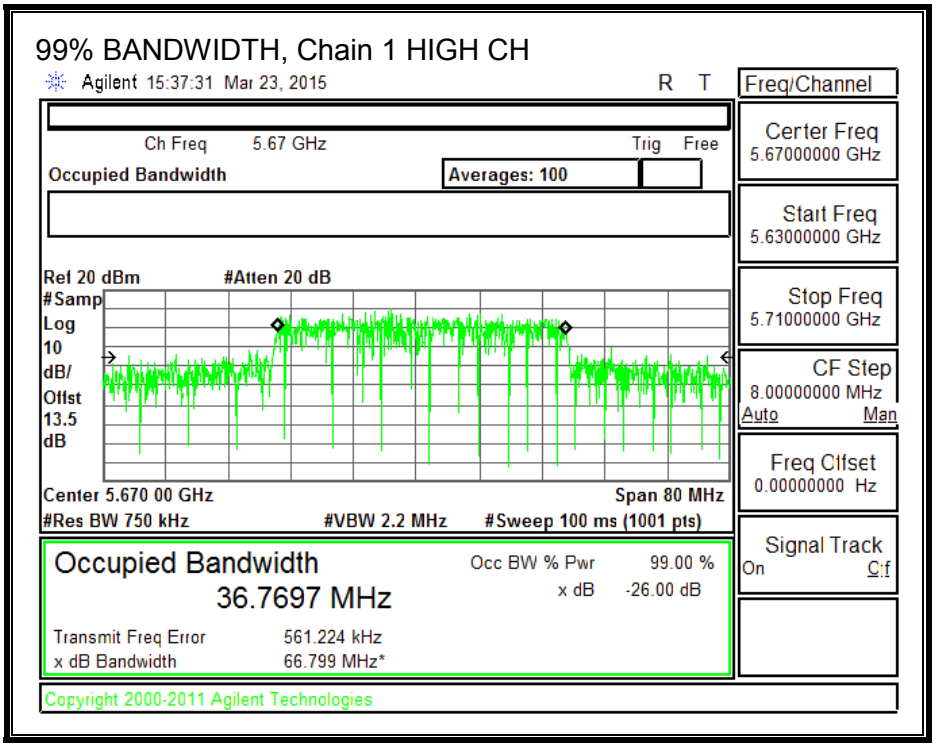


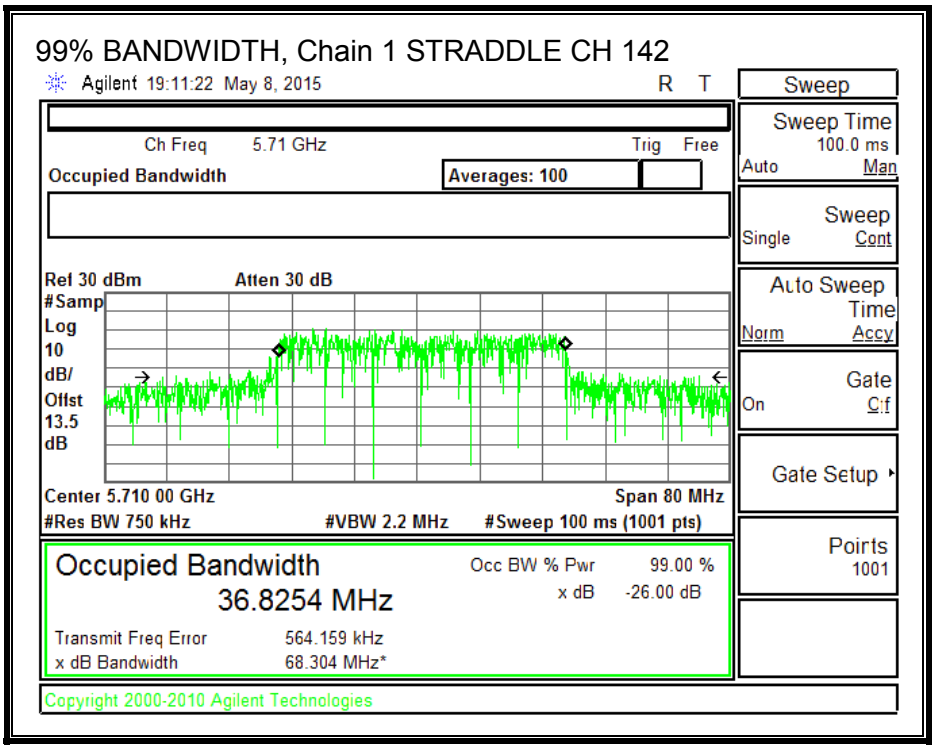


99% BANDWIDTH, Chain 1

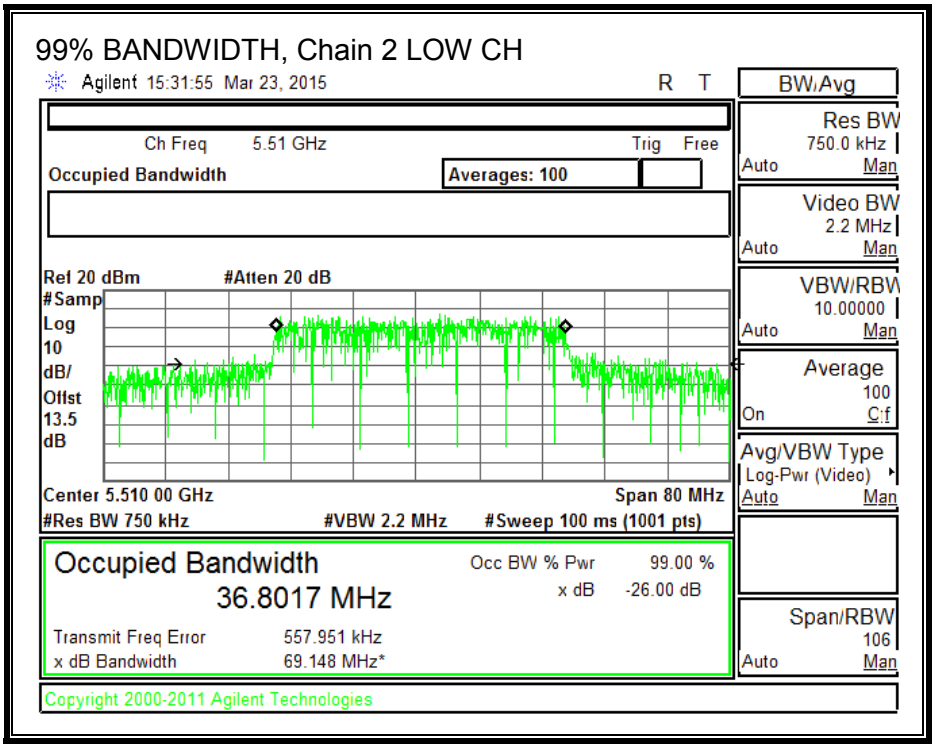


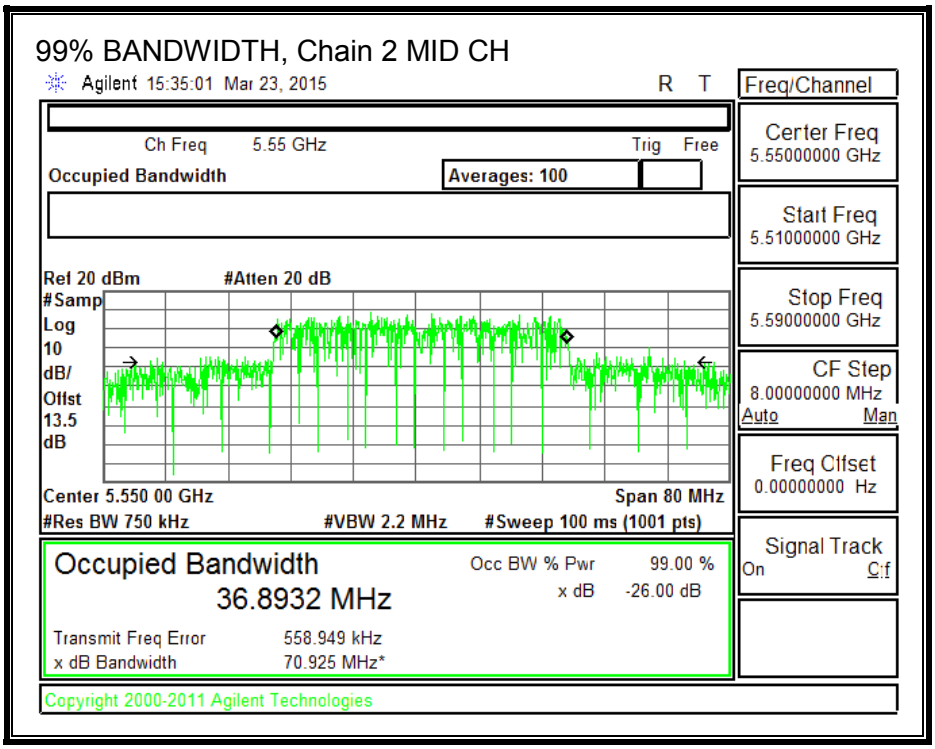


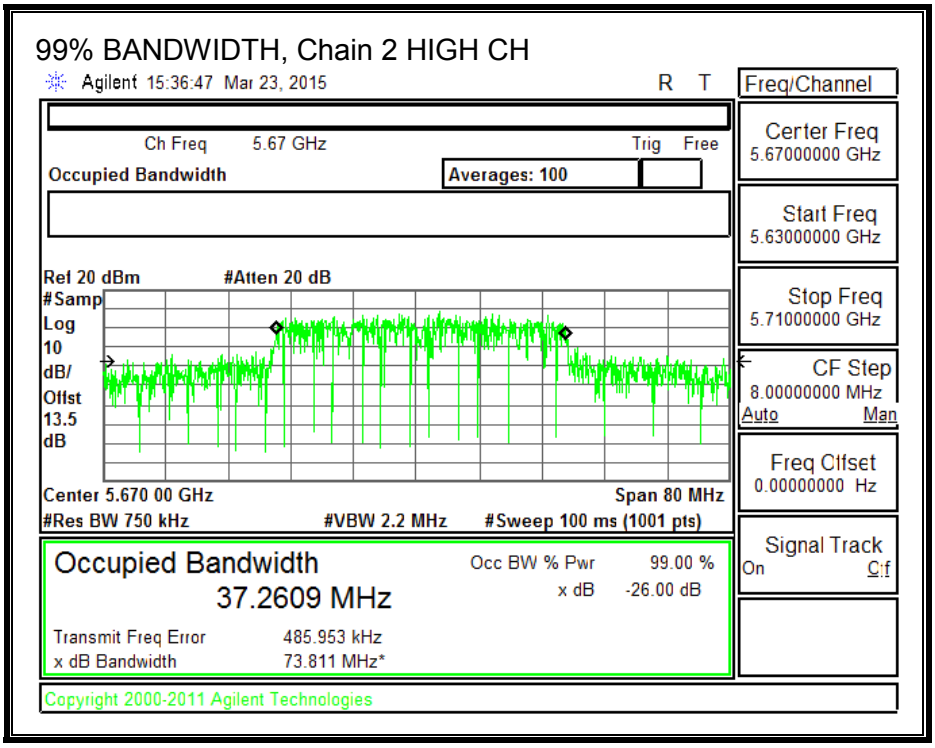


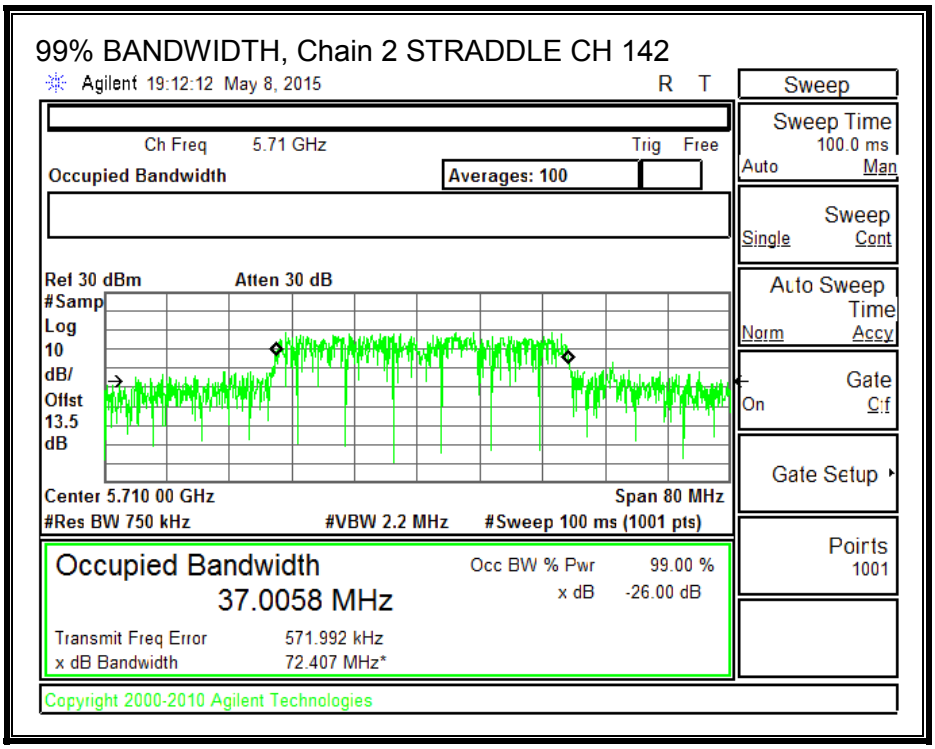


99% BANDWIDTH, Chain 2









8.28.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

For power the TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain, 6.21 dBi.

For PSD 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)
6.21	4.77	10.98

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5510	94.44	6.21	10.98	23.79	6.02
Mid	5550	90.72	6.21	10.98	23.79	6.02
High	5670	93.00	6.21	10.98	23.79	6.02

Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd PSD

Output Power 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)	Power Margin (dB)
Low	5510	12.02	12.51	12.23	17.03	23.79	-6.76
Mid	5550	18.90	18.45	18.90	23.53	23.79	-0.26
High	5670	15.67	16.21	15.90	20.70	23.79	-3.09

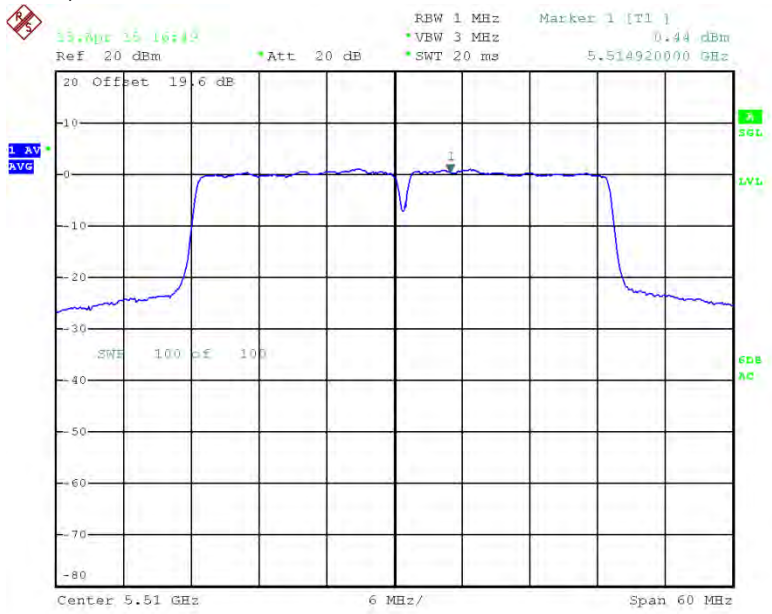
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5510	0.44	0.50	0.03	5.19	6.02	-0.83
Mid	5550	1.47	0.71	0.13	5.67	6.02	-0.35
High	5670	1.51	0.77	0.54	5.82	6.02	-0.20

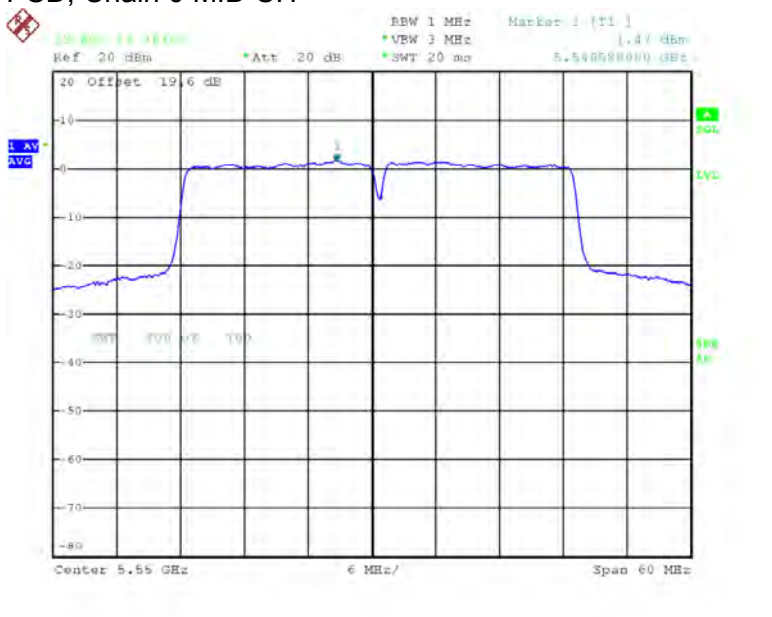
Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

PSD, Chain 0

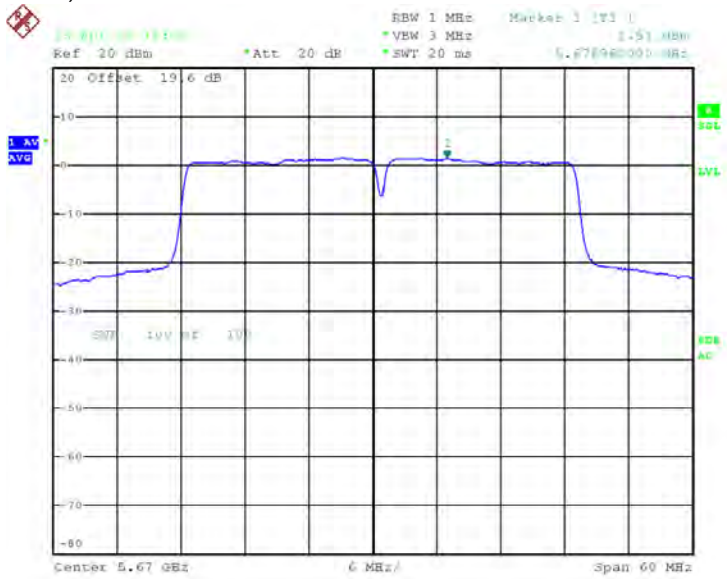
PSD, Chain 0 LOW CH



PSD, Chain 0 MID CH



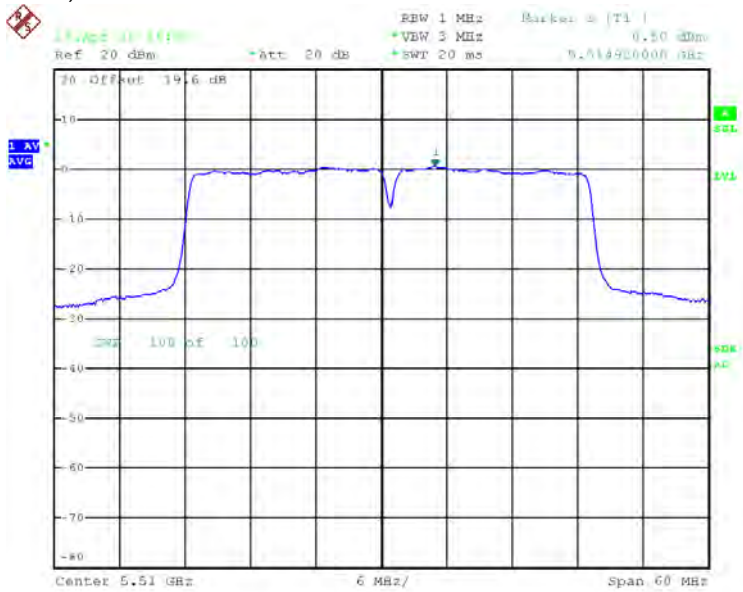
PSD, Chain 0 HIGH CH



Date: 15.APR.2015 16:58:42

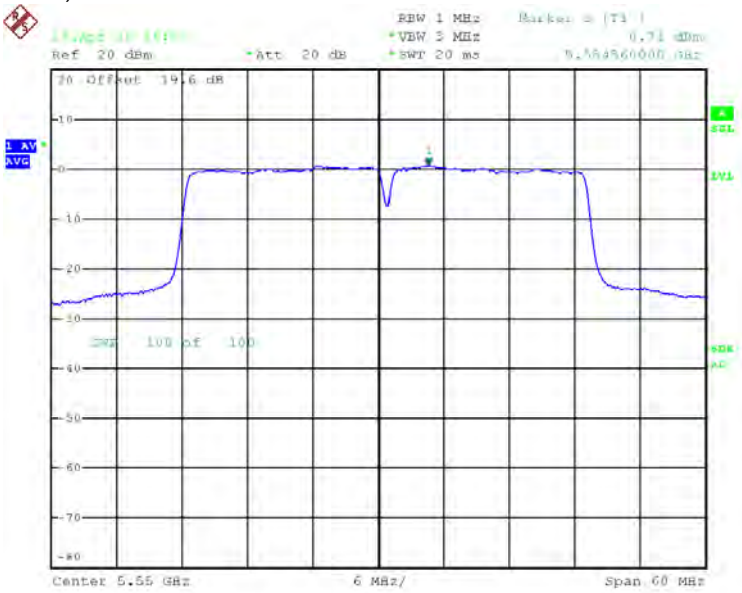
PSD, Chain 1

PSD, Chain 1 LOW CH



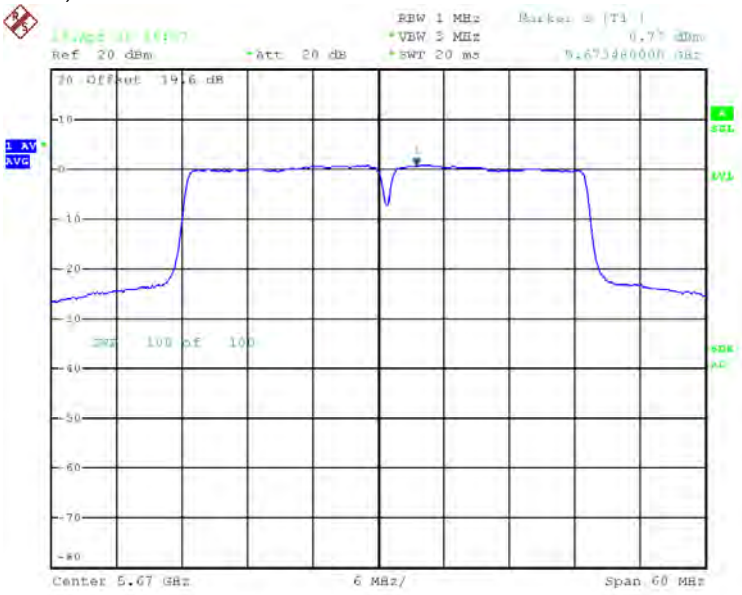
Date: 15.APR.2015 16:48:52

PSD, Chain 1 MID CH



Date: 15.APR.2015 16:51:45

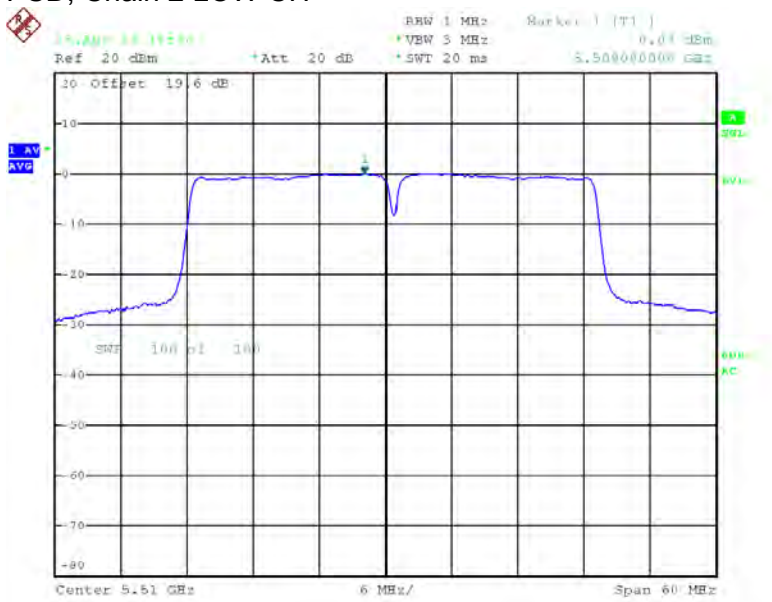
PSD, Chain 1 HIGH CH



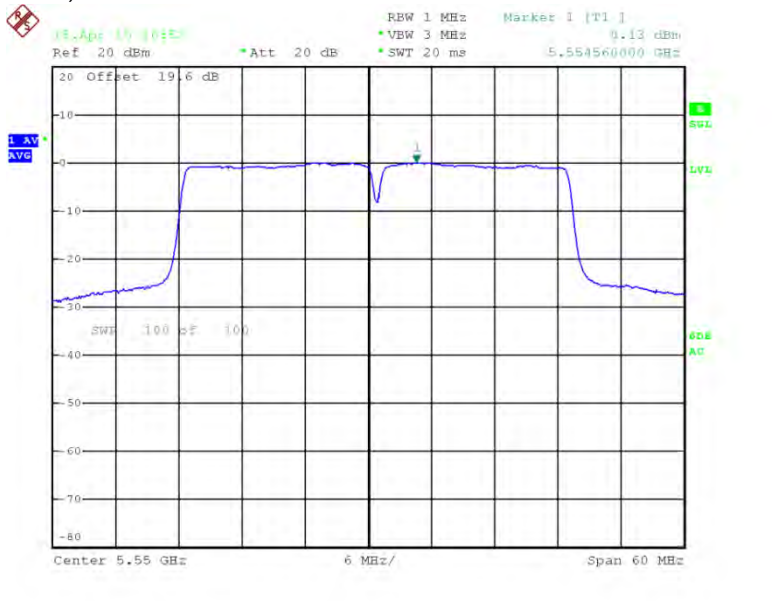
Date: 15.APR.2015 16:57:33

PSD, Chain 2

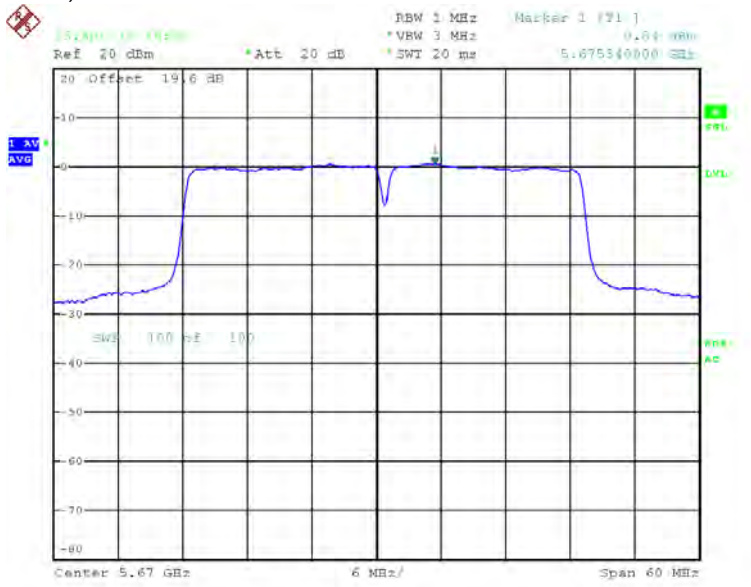
PSD, Chain 2 LOW CH



PSD, Chain 2 MID CH



PSD, Chain 2 HIGH CH



Date: 15.APR.2015 16:56:49

STRADDLE CHANNEL 142 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
142	5710	58.14	6.21	10.98	23.79	6.02

Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd Power & PSD

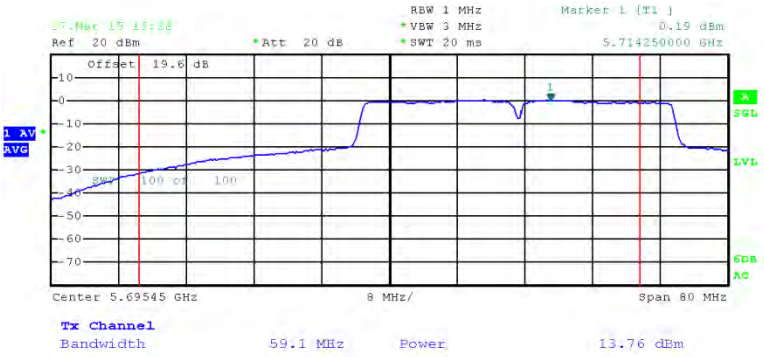
Output Power Results

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)	Power Margin (dB)
142	5710	13.76	13.26	13.46	18.36	23.79	-5.43

PSD Results

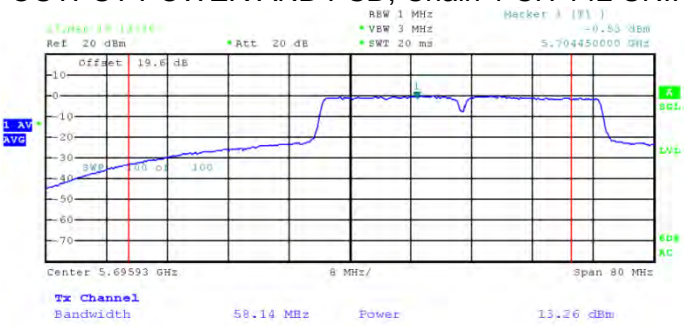
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
142	5710	0.19	-0.53	-0.12	4.72	6.02	-1.30

OUTPUT POWER AND PSD, Chain 0 CH 142 UNII



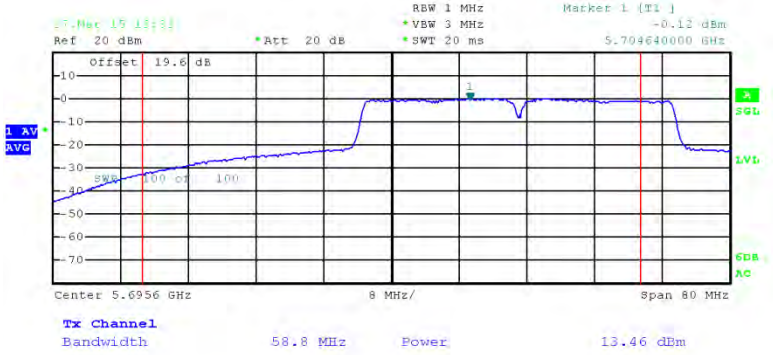
Date: 27.MAR.2015 13:28:28

OUTPUT POWER AND PSD, Chain 1 CH 142 UNII



Date: 27.MAR.2015 13:26:26

OUTPUT POWER AND PSD, Chain 2 CH 142 UNII



Date: 27.MAR.2015 13:32:24

UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
142	5710	6.21	10.98	29.79	25.02

Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd Power & PSD

Output Power 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)	Power Margin (dB)
142	5710	4.50	3.75	3.97	8.95	29.79	-20.84

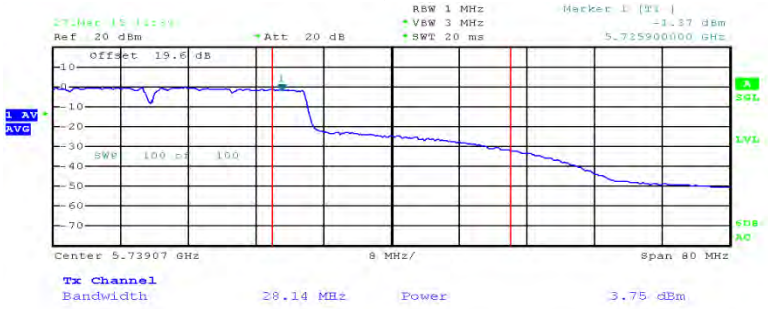
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
142	5710	-0.69	-1.37	-1.13	3.81	25.02	-21.21

OUTPUT POWER AND PSD, Chain 0 CH 142 UNII-3

Date: 27.MAR.2015 13:34:34

OUTPUT POWER AND PSD, Chain 1 CH 142 UNII-3



Date: 27.MAR.2015 13:39:18

OUTPUT POWER AND PSD, Chain 2 CH 142 UNII-3

Date: 27.MAR.2015 13:42:06

8.28.4. AVERAGE OUTPUT POWER (WHOLE FUNDAMENTAL)

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

RESULTS

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)
142	5710	18.90	19.05	18.95	23.74

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.29. 802.11n HT40 TxBF 3Tx MODE IN THE 5.6 GHz BAND

8.29.1. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

For power and PSD 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)
6.21	4.77	10.98

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5510	94.44	10.98	10.98	19.02	6.02
Mid	5550	90.72	10.98	10.98	19.02	6.02
High	5670	93.00	10.98	10.98	19.02	6.02

Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd PSD

Output Power 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)	Power Margin (dB)
Low	5510	12.02	12.51	12.23	17.03	19.02	-1.99
Mid	5550	13.90	14.27	14.05	18.85	19.02	-0.17
High	5670	13.87	14.23	14.10	18.84	19.02	-0.18

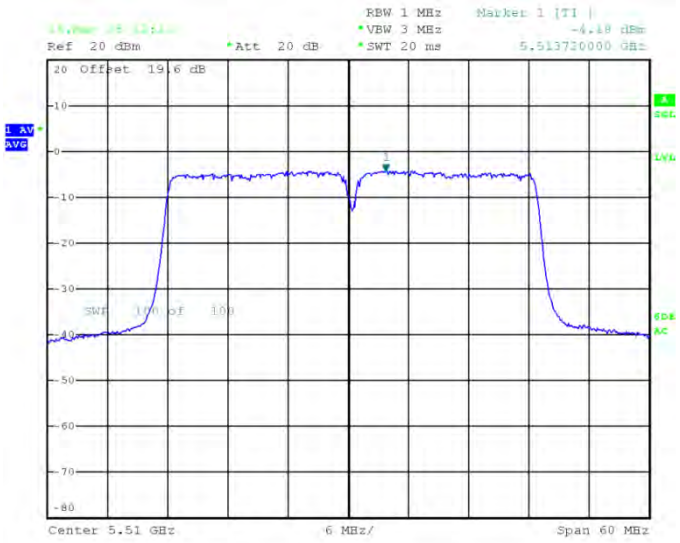
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5510	-4.18	-3.72	-4.00	0.90	6.02	-5.12
Mid	5550	-4.13	-3.69	-4.06	0.91	6.02	-5.11
High	5670	-4.03	-3.77	-3.98	0.94	6.02	-5.08

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

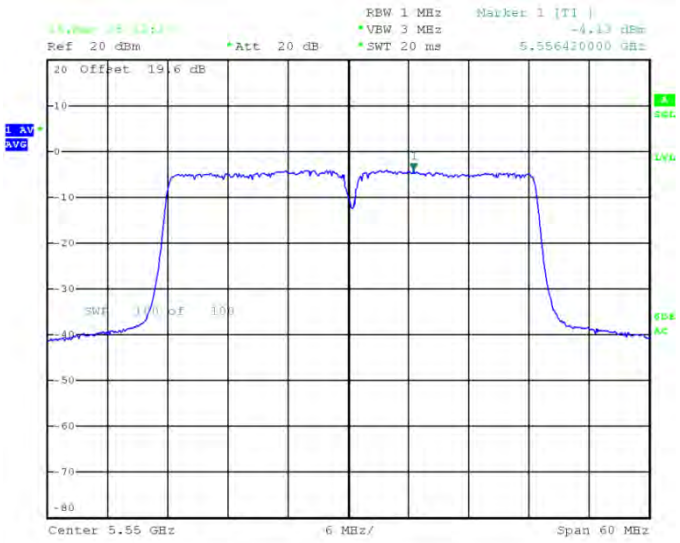
PSD, Chain 0

PSD, Chain 0 LOW CH



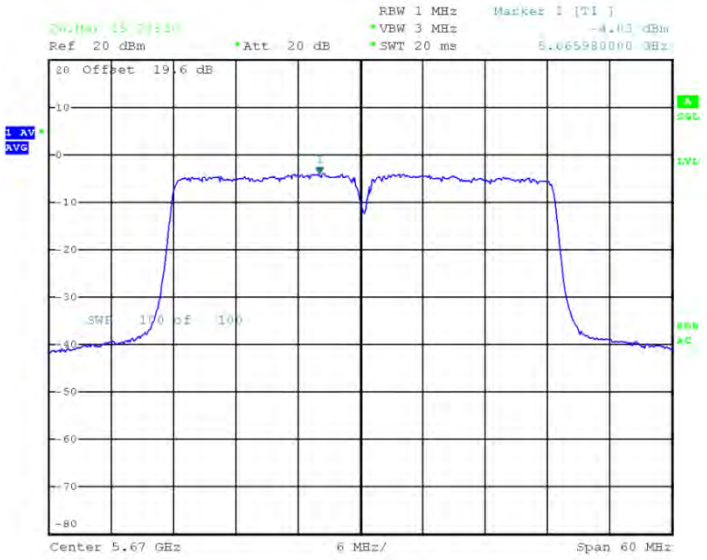
Date: 26.MAR.2015 22:23:37

PSD, Chain 0 MID CH



Date: 26.MAR.2015 22:27:11

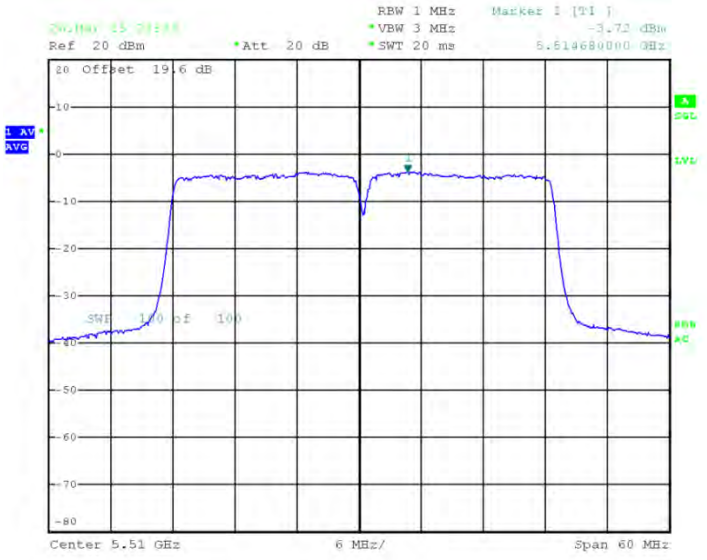
PSD, Chain 0 HIGH CH



Date: 26.MAR.2015 22:30:17

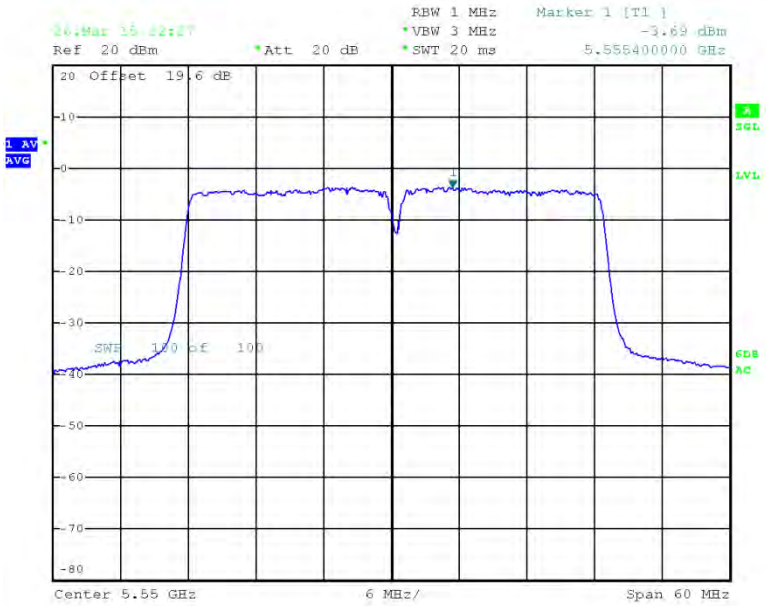
PSD, Chain 1

PSD, Chain 1 LOW CH



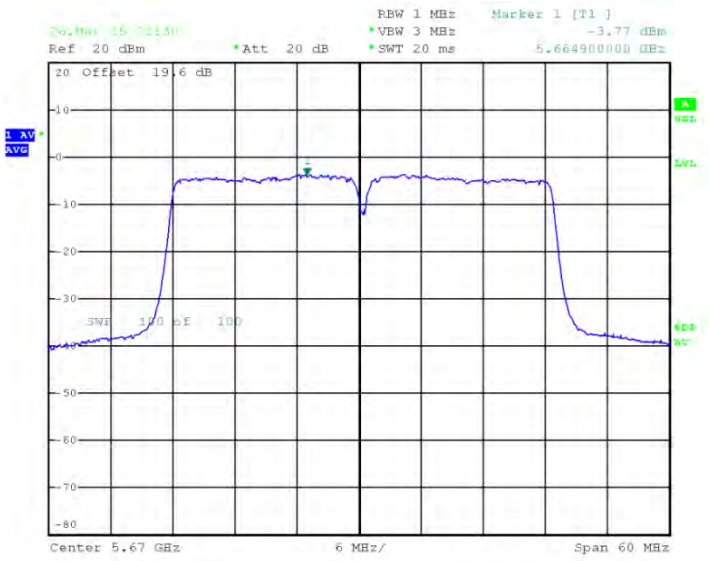
Date: 26.MAR.2015 22:24:25

PSD, Chain 1 MID CH



Date: 26.MAR.2015 22:27:52

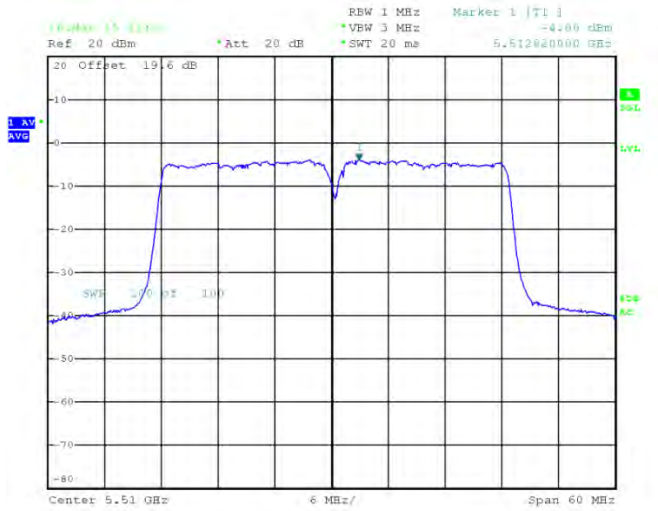
PSD, Chain 1 HIGH CH



Date: 26.MAR.2015 22:30:55

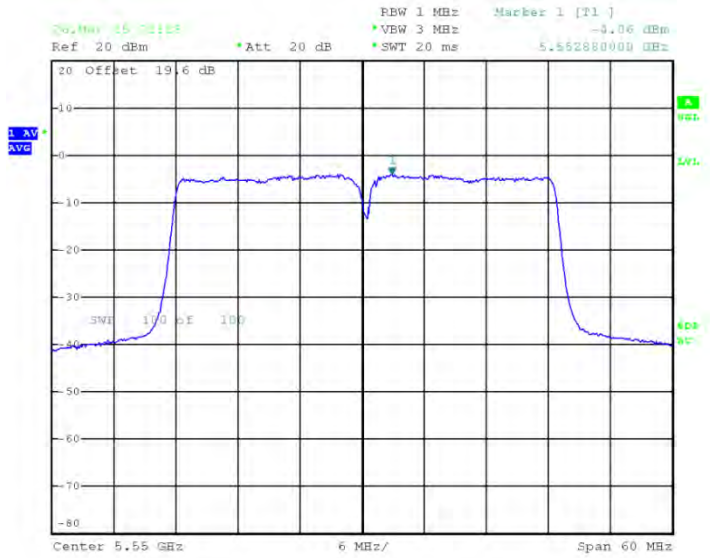
PSD, Chain 2

PSD, Chain 2 LOW CH



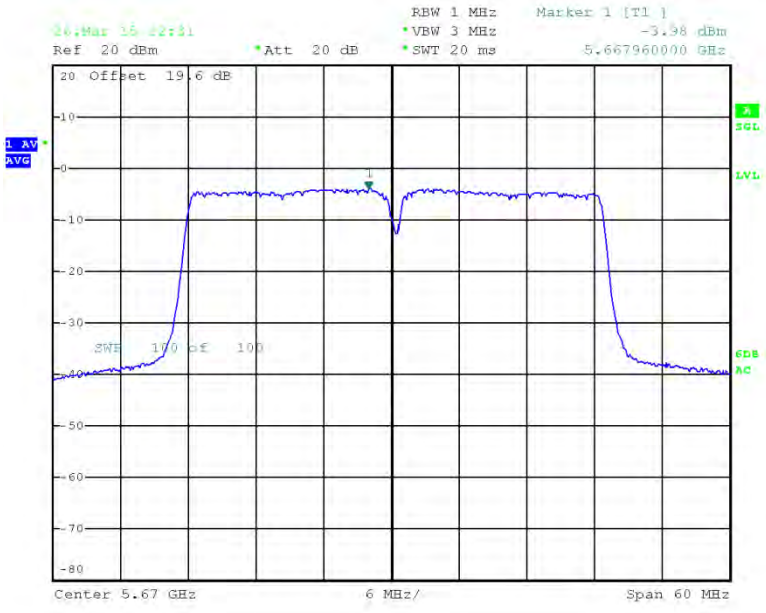
Date: 26.MAR.2015 22:25:01

PSD, Chain 2 MID CH



Date: 26.MAR.2015 22:28:37

PSD, Chain 2 HIGH CH



Date: 26.MAR.2015 22:31:52

STRADDLE CHANNEL 142 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
142	5710	59.10	10.98	10.98	19.02	6.02

Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd Power & PSD

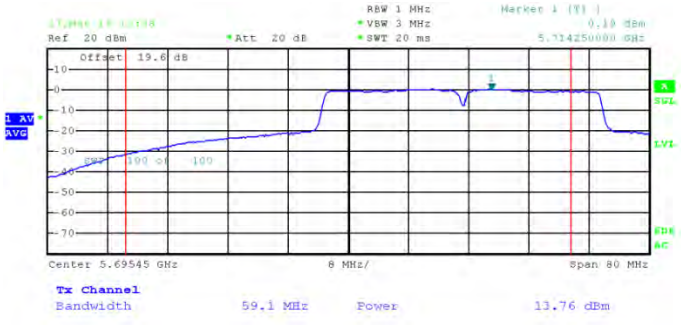
Output Power Results

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)	Power Margin (dB)
142	5710	13.76	13.26	13.46	18.36	19.02	-0.66

PSD Results

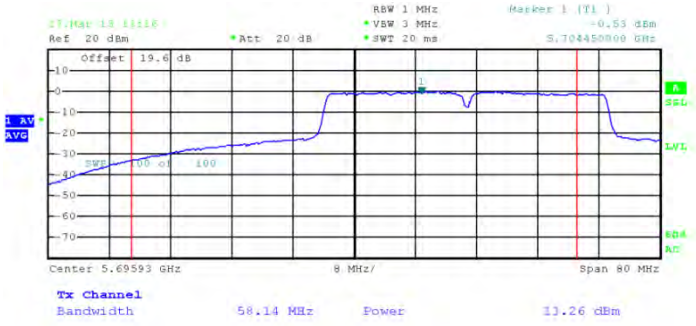
Channel	Frequency (MHz)	Chain 0 Meas PSD	Chain 1 Meas PSD	Chain 2 Meas PSD	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
142	5710	0.19	-0.53	-0.12	4.72	6.02	-1.30

OUTPUT POWER AND PSD, Chain 0 CH 142 UNII



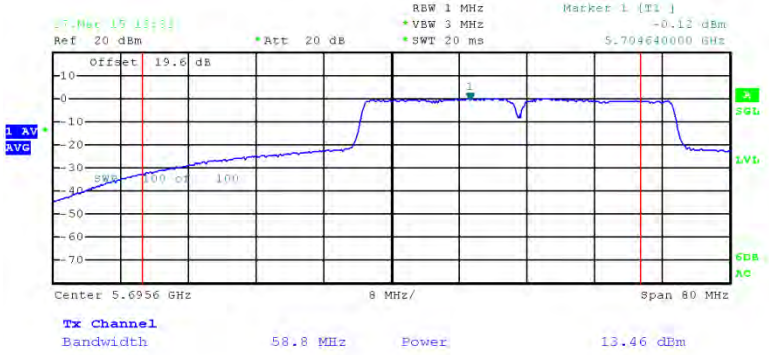
Date: 27.MAR.2015 13:28:28

OUTPUT POWER AND PSD, Chain 1 CH 142 UNII



Date: 27.MAR.2015 13:26:26

OUTPUT POWER AND PSD, Chain 2 CH 142 UNII



Date: 27.MAR.2015 13:32:24

UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
142	5710	10.98	10.98	25.02	25.02

Duty Cycle CF (dB)	0.09	Included in Calculations of Corr'd Power & PSD

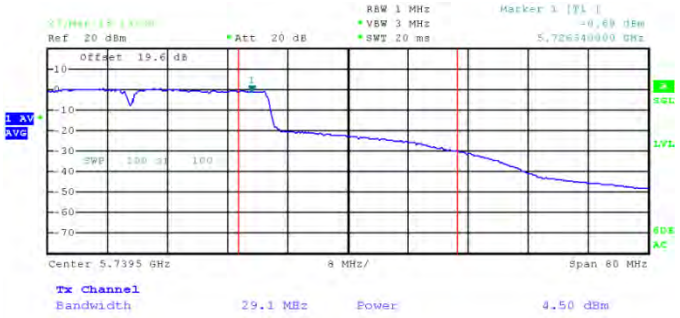
Output Power Results

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)	Power Margin (dB)
142	5710	4.50	3.75	3.97	8.95	25.02	-16.07

PSD Results

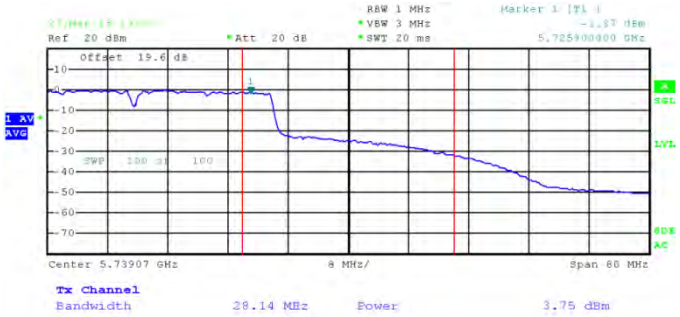
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
142	5710	-0.69	-1.37	-1.13	3.81	25.02	-21.21

OUTPUT POWER AND PSD, Chain 0 CH 142 UNII-3



Date: 27.MAR.2015 13:34:34

OUTPUT POWER AND PSD, Chain 1 CH 142 UNII-3



Date: 27.MAR.2015 13:39:18

OUTPUT POWER AND PSD, Chain 2 CH 142 UNII-3

Date: 27.MAR.2015 13:42:06

8.29.2. AVERAGE OUTPUT POWER (WHOLE FUNDAMENTAL)

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

RESULTS

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)
142	5710	18.90	19.05	18.95	23.74

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.30. 802.11ac VHT80 1Tx MODE IN THE 5.6 GHz BAND

8.30.1. OUTPUT POWER

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

This is SISO mode, AG is the highest (worst-case) = 6.21 dBi

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5530	178.25	6.21	23.79	10.79
High	5610	176.75	6.21	23.79	10.79

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Total Corr'd Power (dBm)	Power Limit (dBm)	Power Margin (dB)
Low	5530	14.03	14.03	23.79	-9.76
High	5610	18.64	18.64	23.79	-5.15

Note: for Chain 0, 26dB data & plots, see section 11ac HT80 CDD 3TX MODE IN THE 5.6 GHz BAND.

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.31. 802.11ac VHT80 CDD 3Tx MODE IN THE 5.6 GHz BAND

8.31.1. 26 dB BANDWIDTH

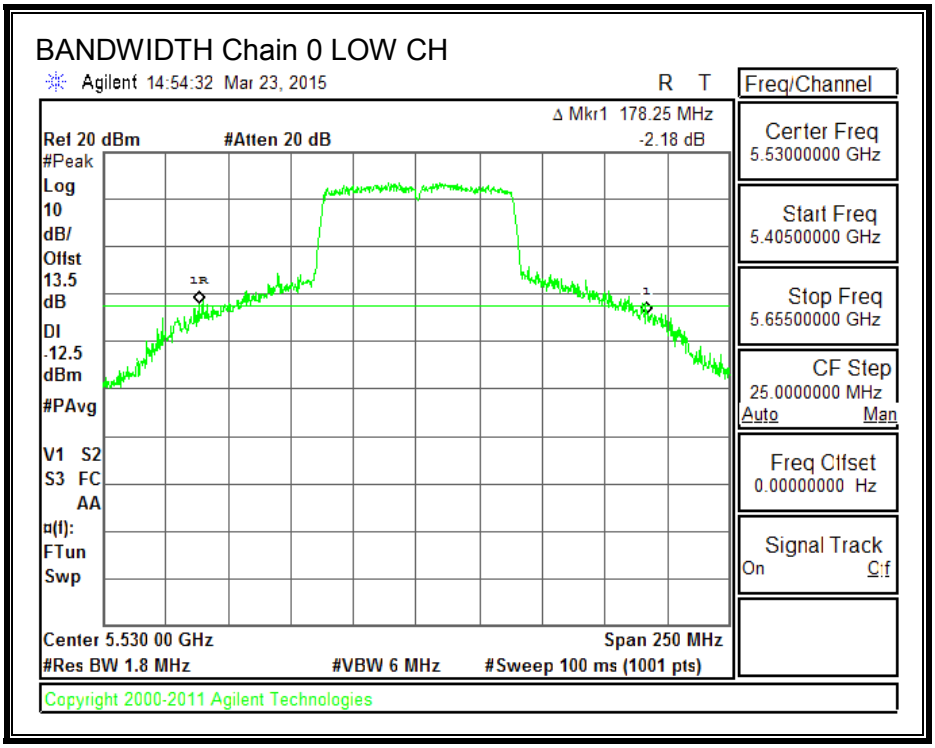
LIMITS

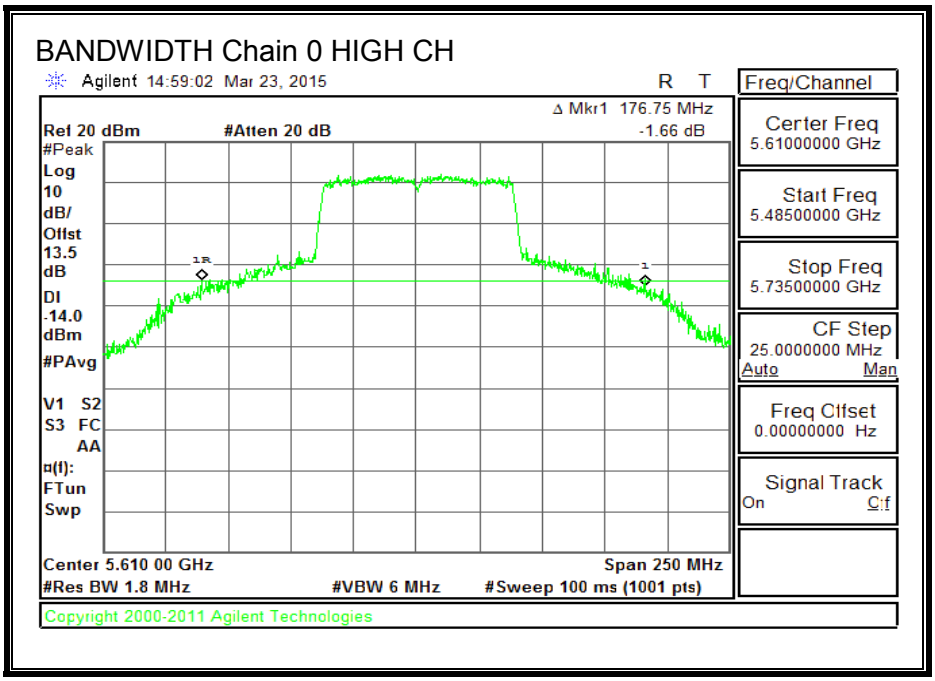
None; for reporting purposes only.

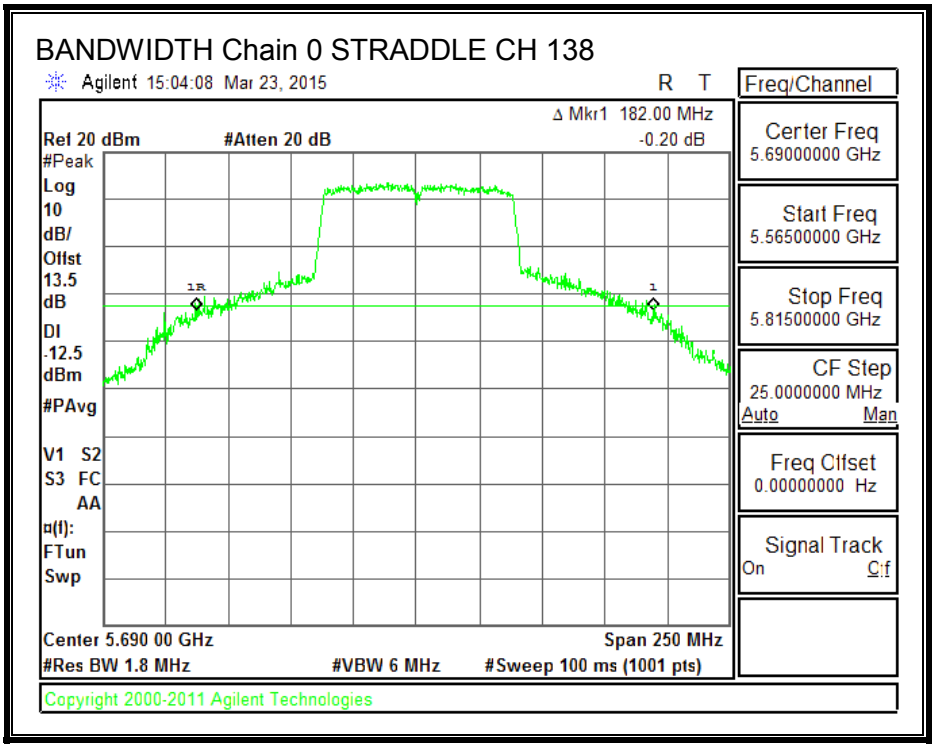
RESULTS

Channel	Frequency (MHz)	26 dB BW Chain 0 (MHz)	26 dB BW Chain 1 (MHz)	26 dB BW Chain 2 (MHz)
Low	5530	178.25	160.25	171.25
High	5610	176.75	172.00	177.50
138	5690	182.00	160.50	175.50

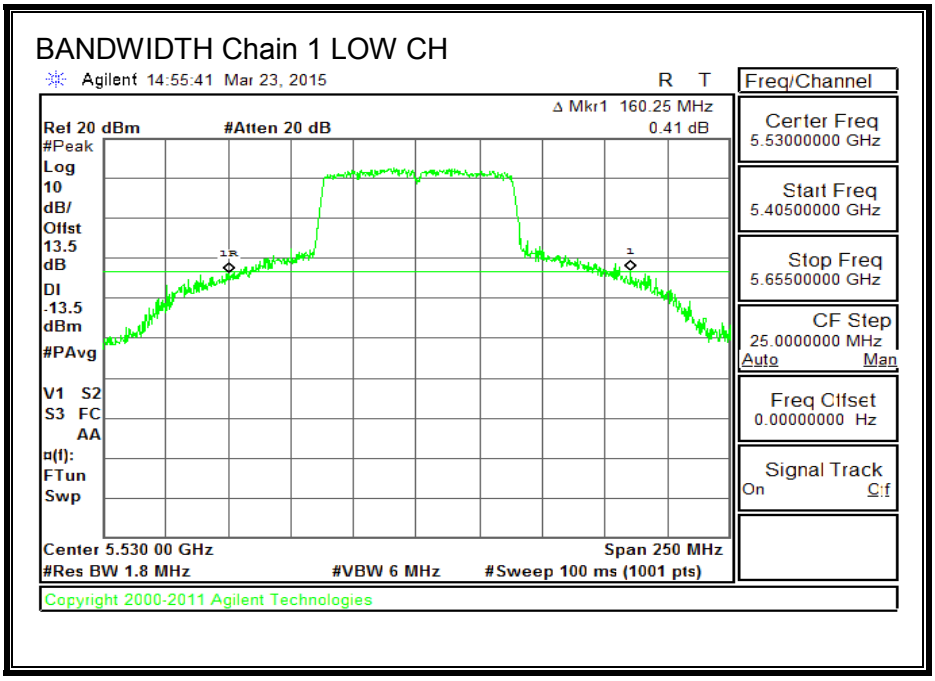
26 dB BANDWIDTH, Chain 0



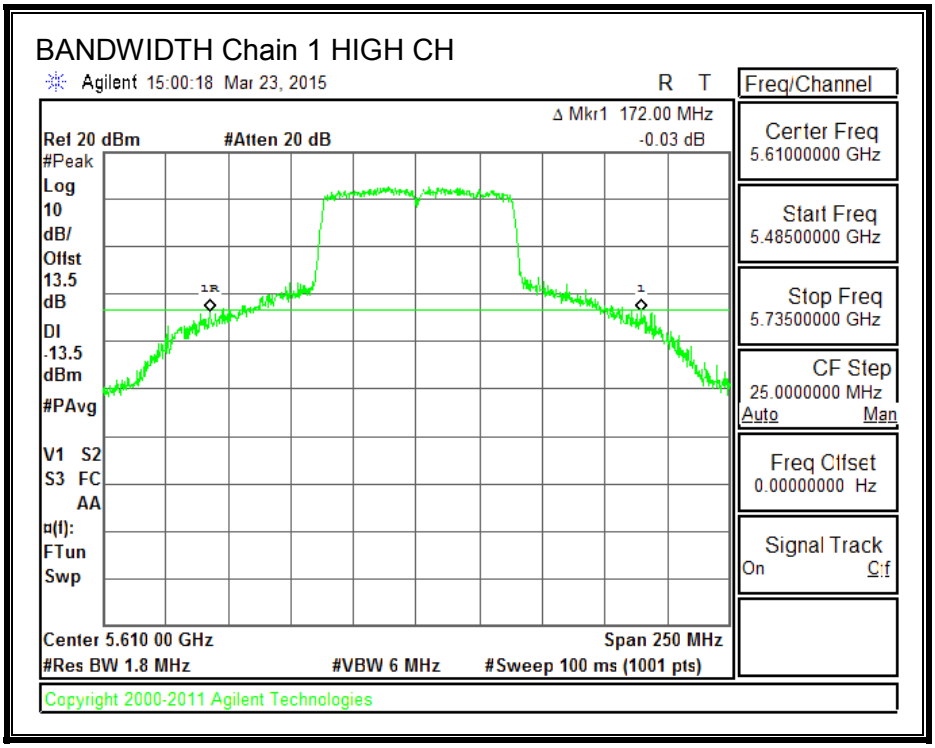




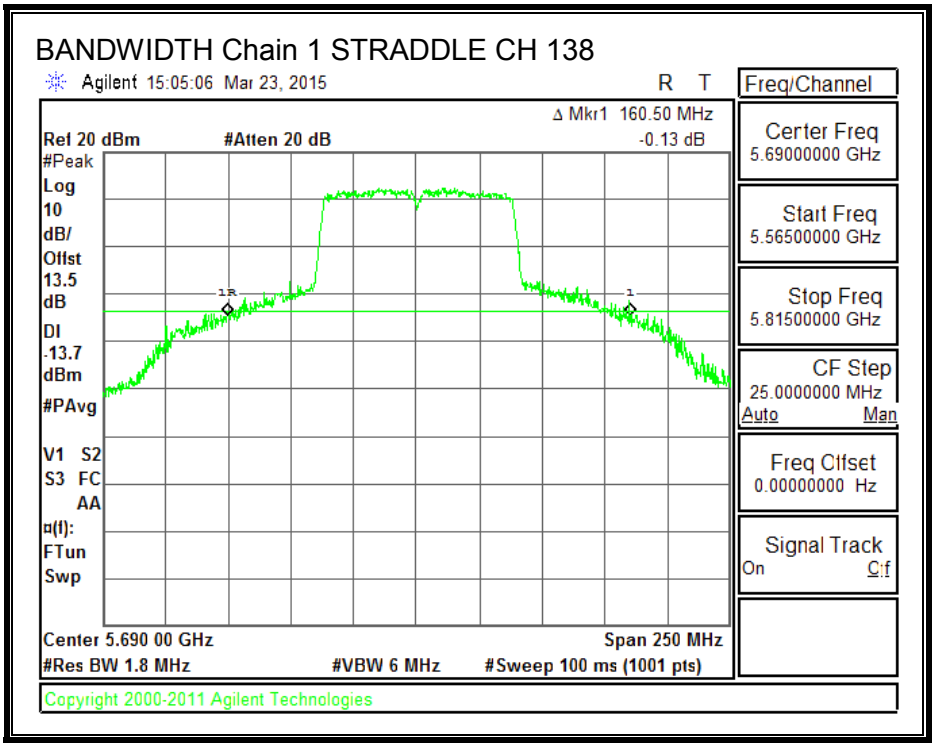
26 dB BANDWIDTH, Chain 1



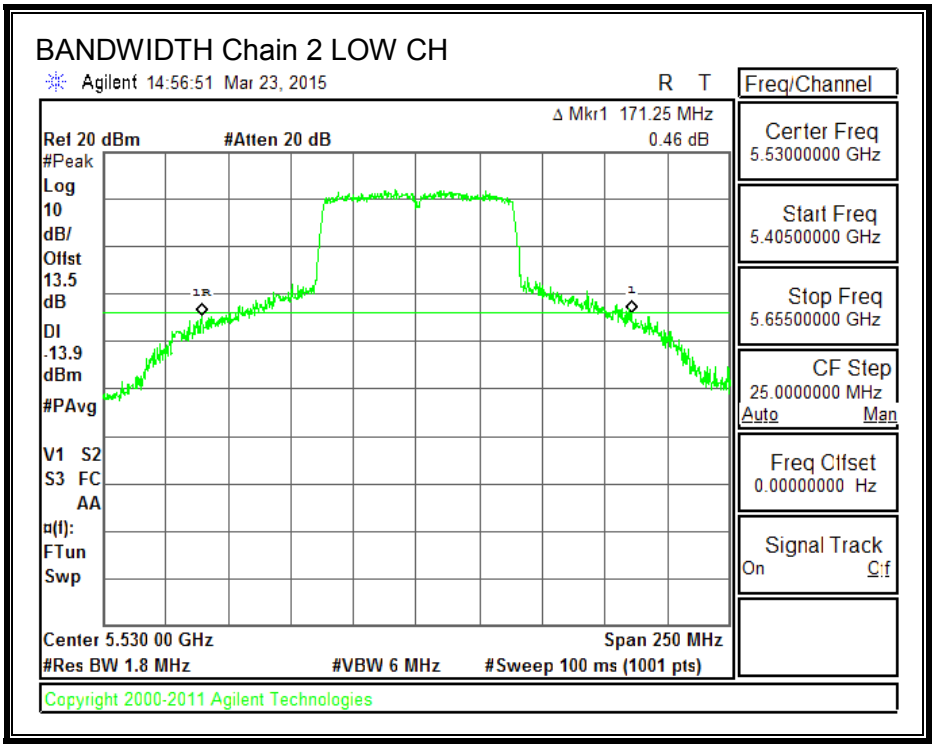
BANDWIDTH Chain 1 HIGH CH

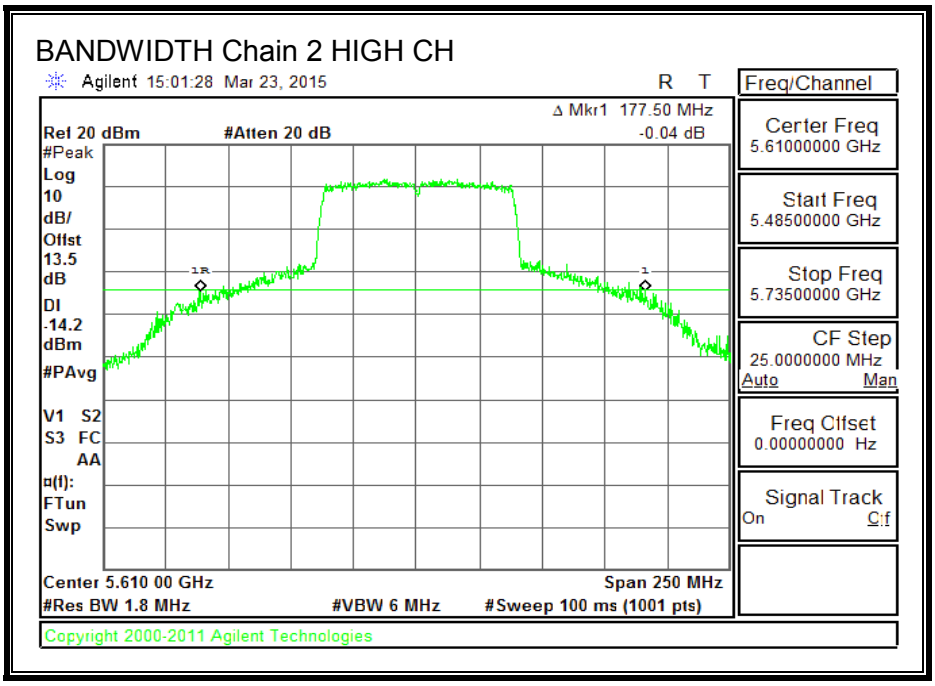


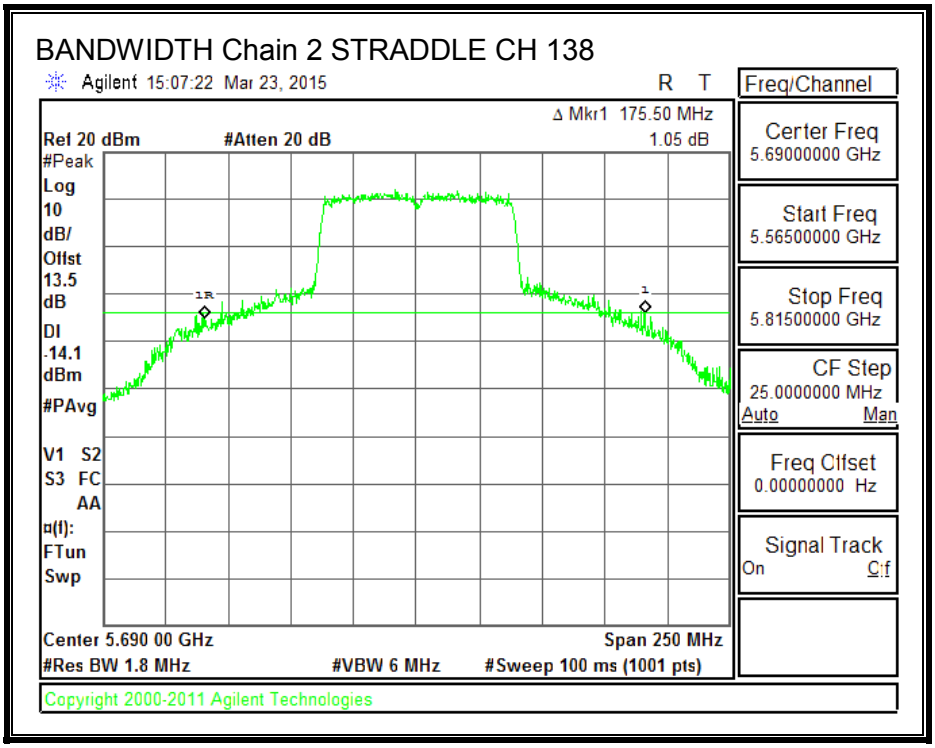
BANDWIDTH Chain 1 STRADDLE CH 138



26 dB BANDWIDTH, Chain 2







8.31.2. 99% BANDWIDTH

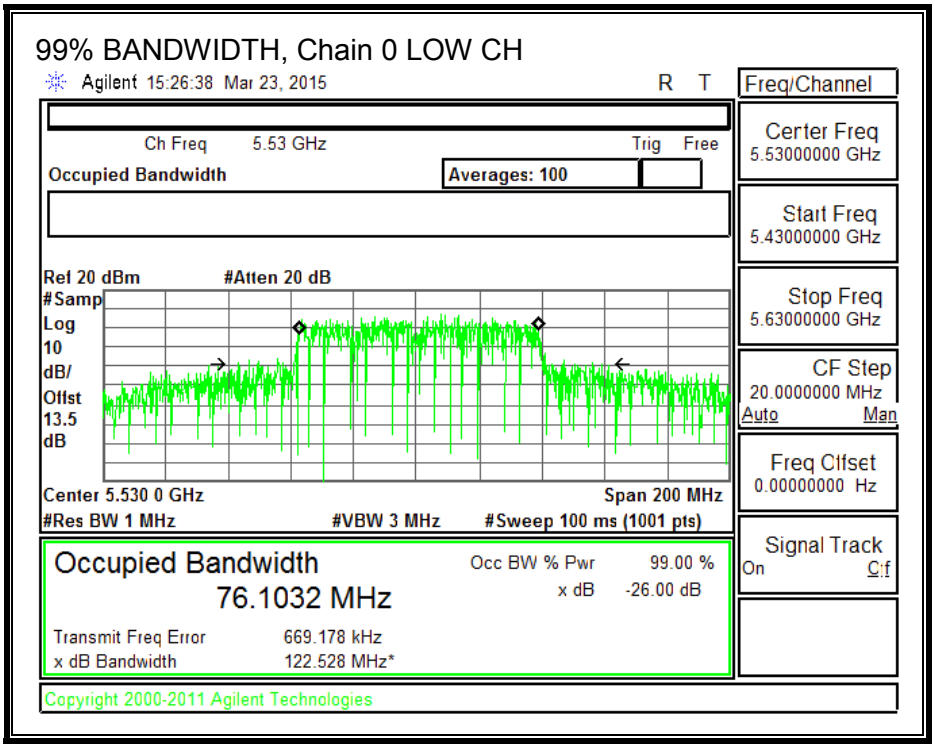
LIMITS

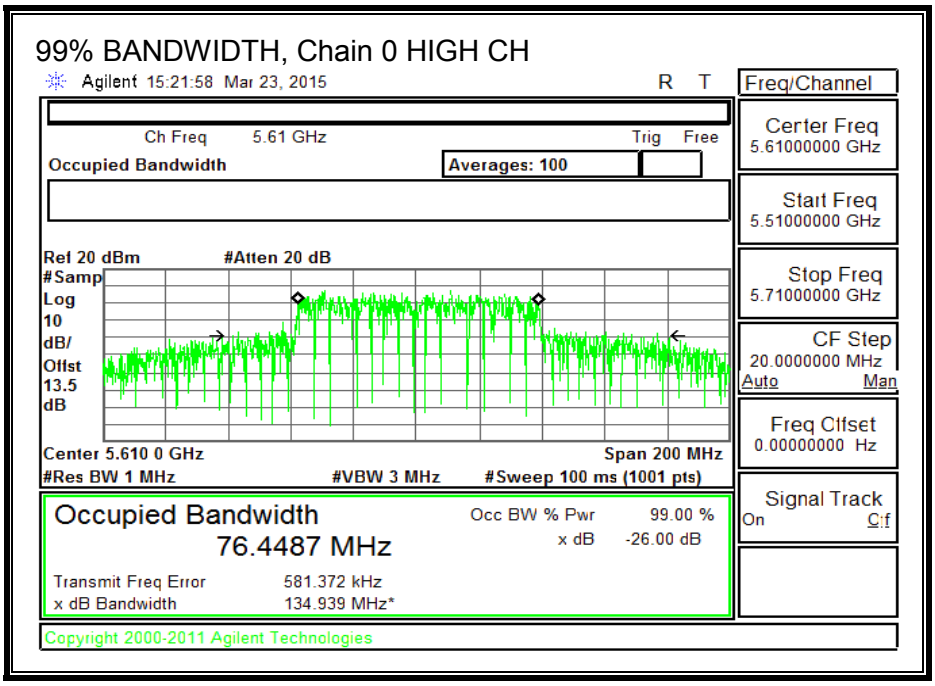
None; for reporting purposes only.

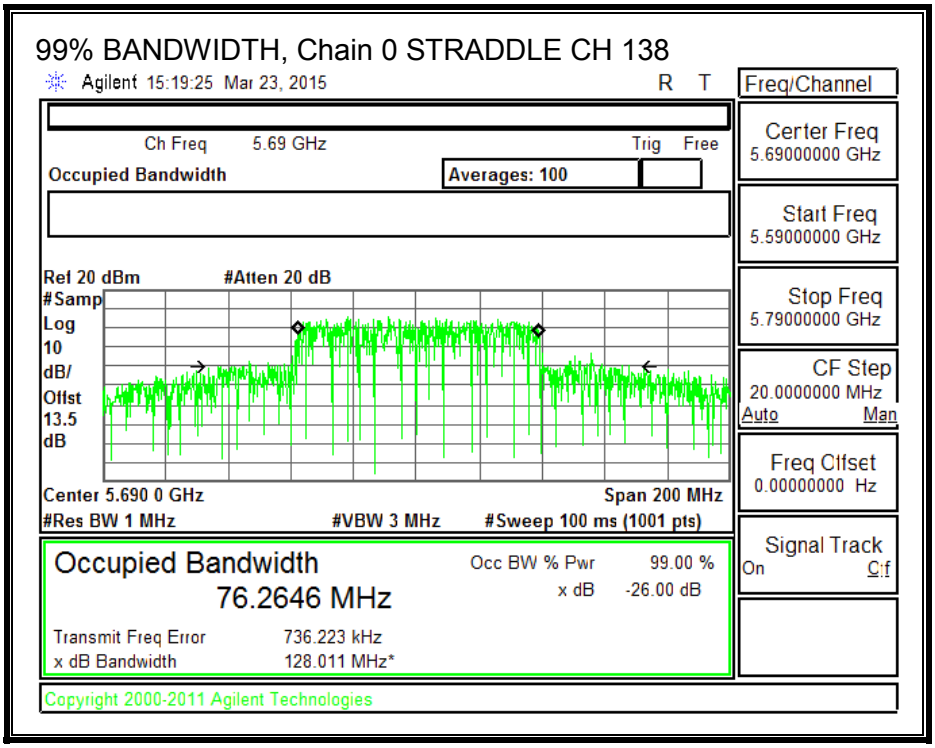
RESULTS

Channel	Frequency (MHz)	99% BW Chain 0 (MHz)	99% BW Chain 1 (MHz)	99% BW Chain 2 (MHz)
Low	5530	76.1032	76.0465	76.2838
High	5610	76.4487	75.9832	76.0098
138	5690	76.2646	76.0059	76.0528

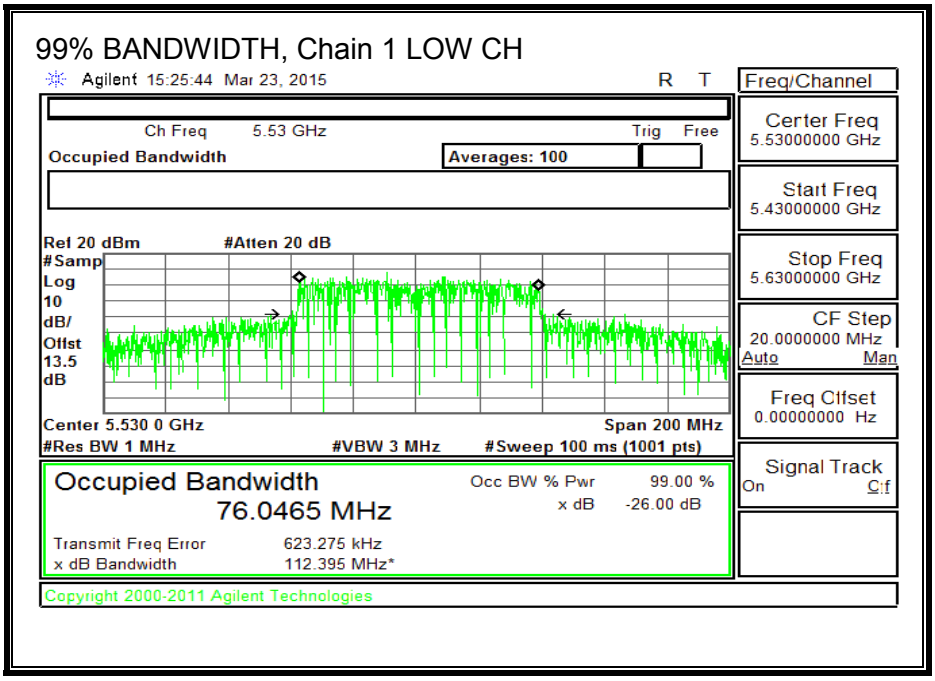
99% BANDWIDTH, Chain 0

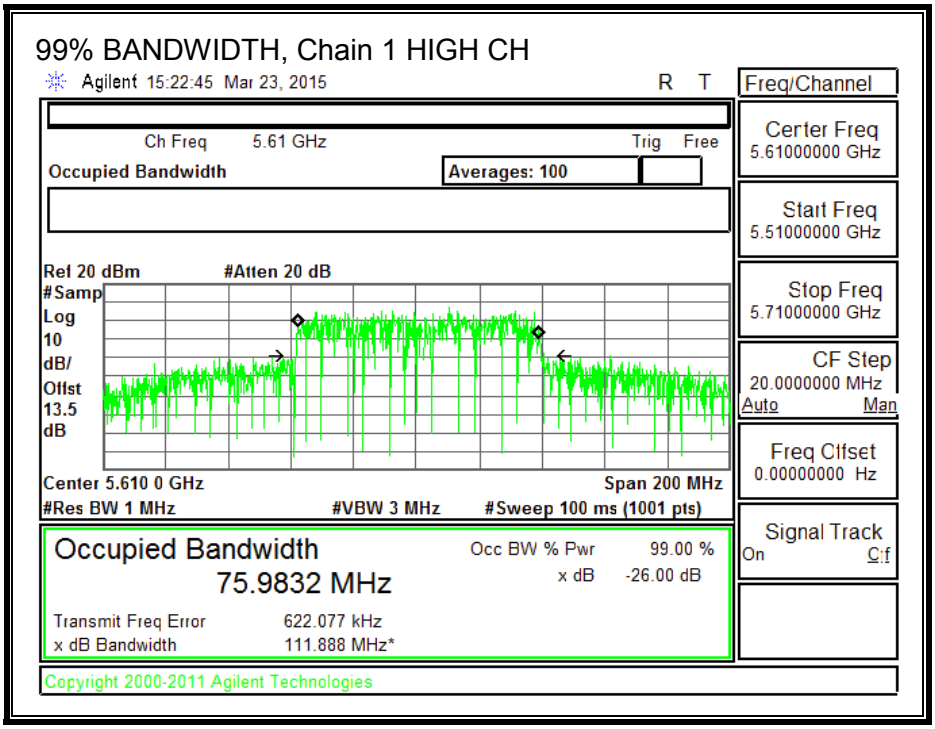


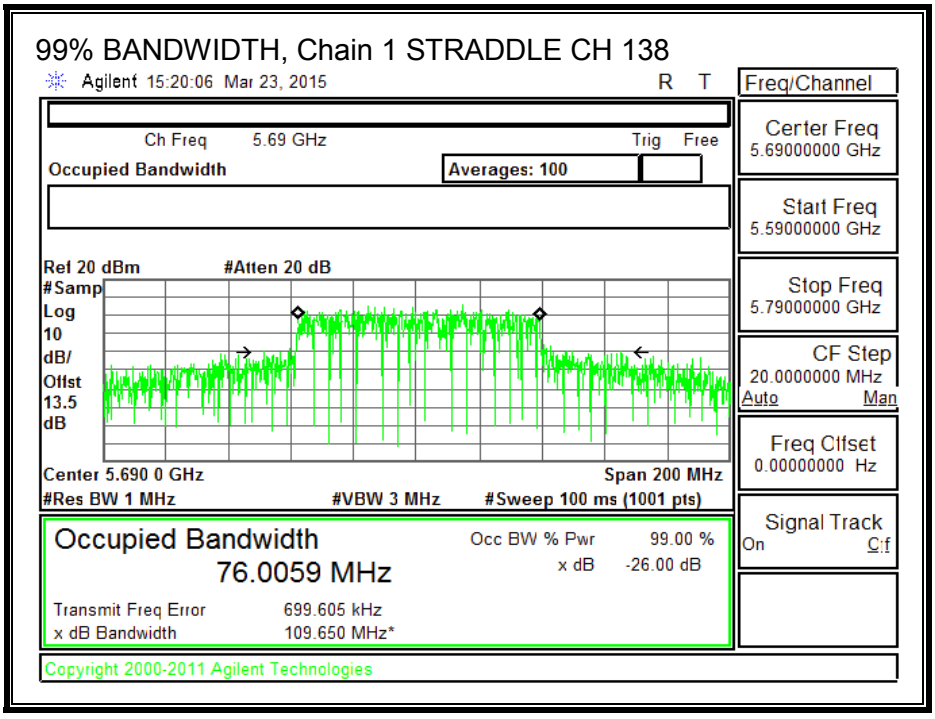




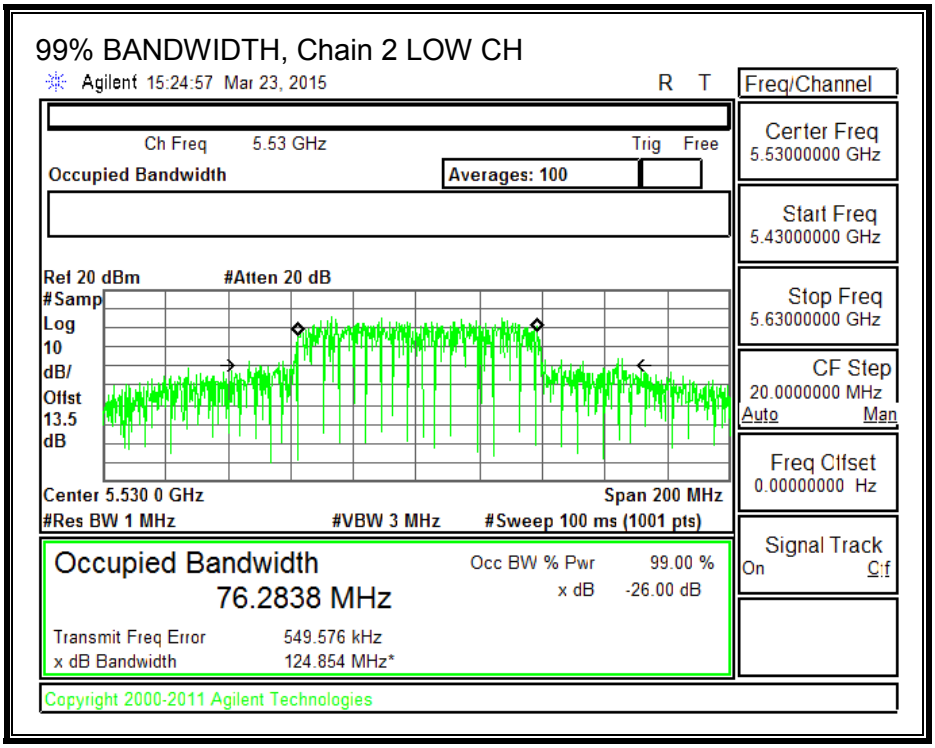
99% BANDWIDTH, Chain 1

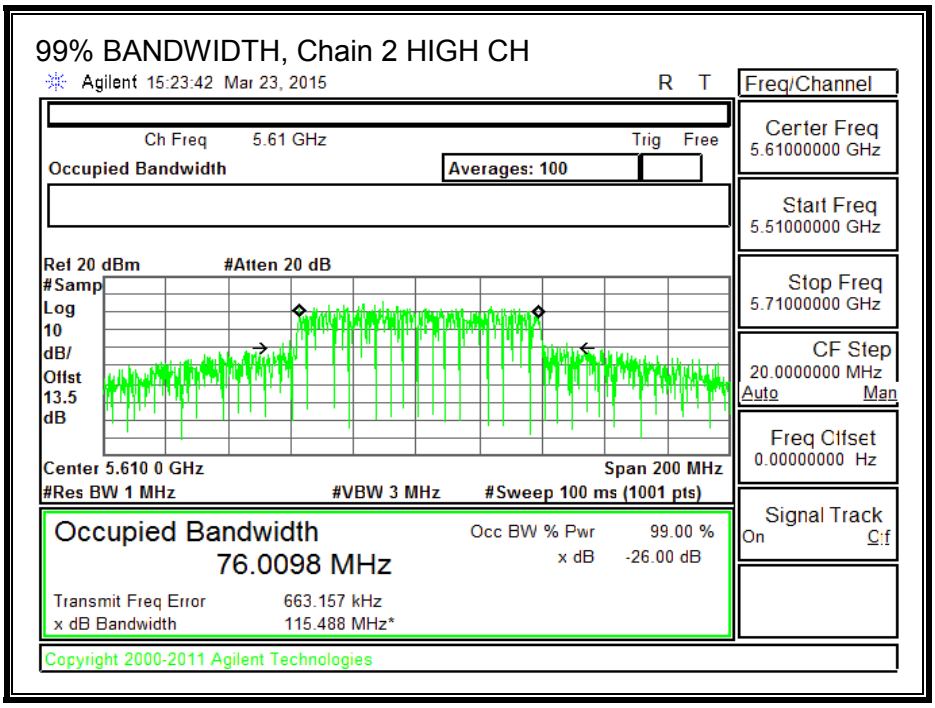


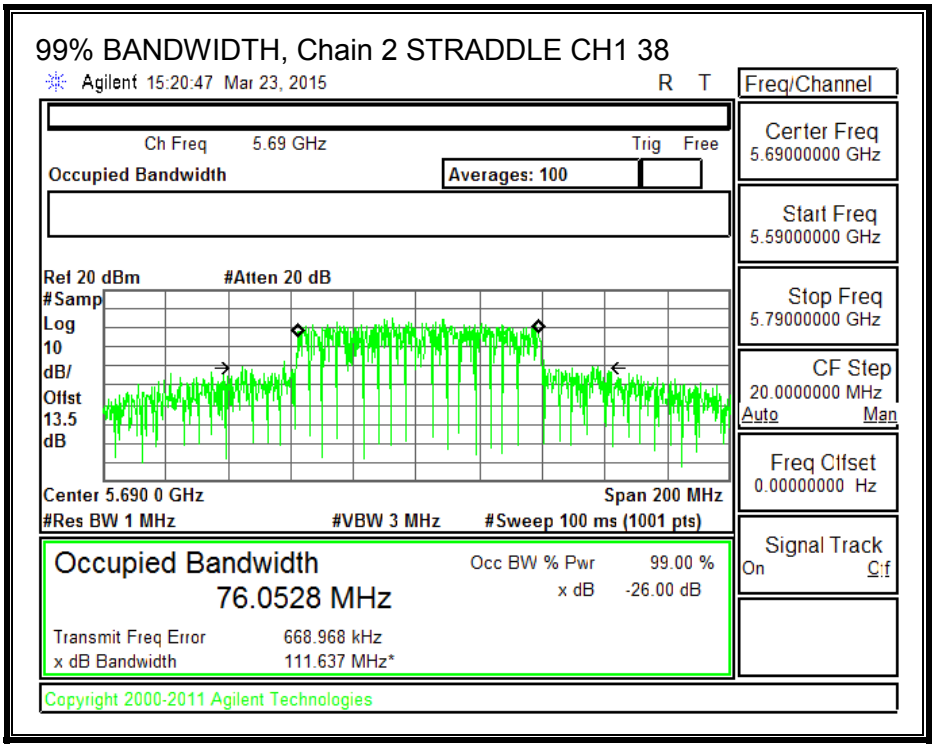




99% BANDWIDTH, Chain 2







8.31.3. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

For power the TX chains are uncorrelated and the antenna gain is the same for each chain. The directional gain is equal to the antenna gain, 6.21 dBi.

For PSD 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)
6.21	4.77	10.98

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5530	160.25	6.21	10.98	23.79	6.02
High	5610	172.00	6.21	10.98	23.79	6.02

Duty Cycle CF (dB)	0.18	Included in Calculations of Corr'd PSD

Output Power 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)	Power Margin (dB)
Low	5530	11.43	11.54	11.55	16.28	23.79	-7.51
High	5610	16.16	16.61	16.72	21.27	23.79	-2.52

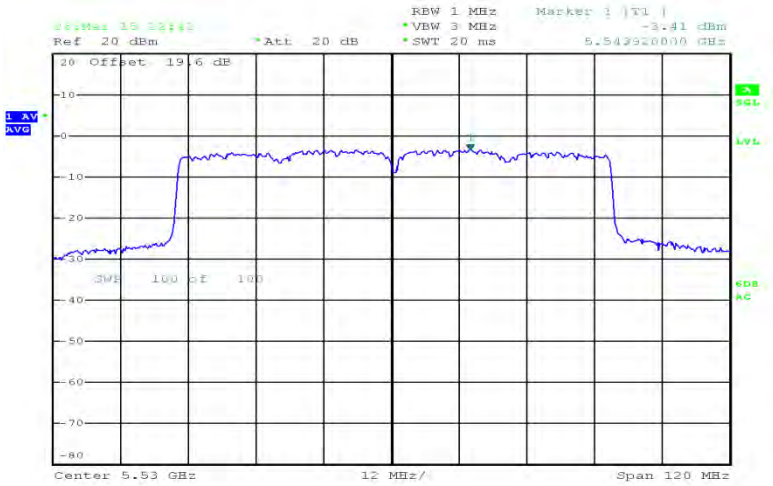
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5530	-3.41	-4.42	-4.37	0.91	6.02	-5.11
High	5610	-3.90	-4.02	-3.80	1.05	6.02	-4.97

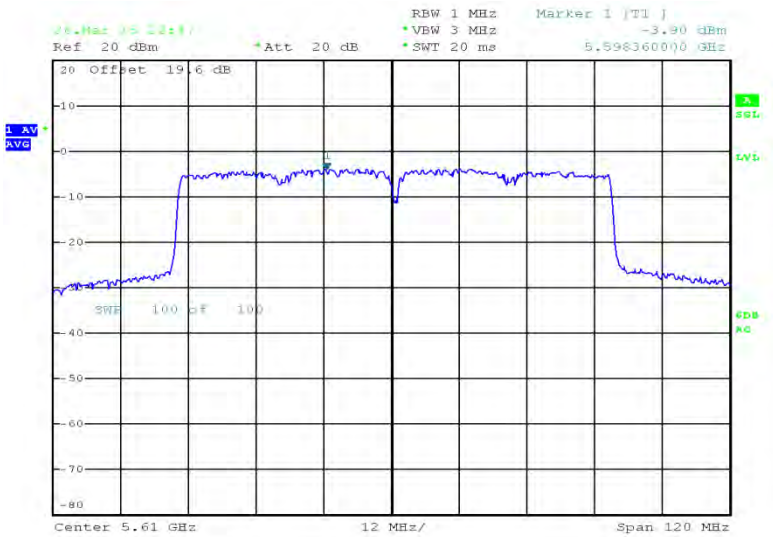
Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

PSD, Chain 0

PSD, Chain 0 LOW CH

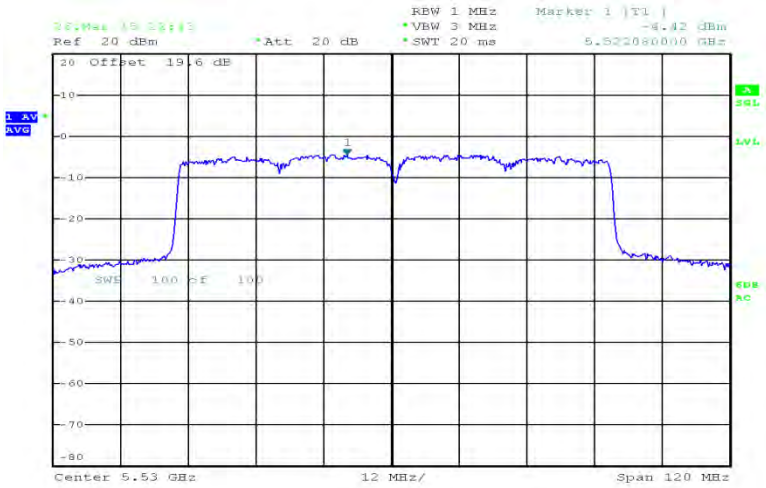


PSD, Chain 0 HIGH CH



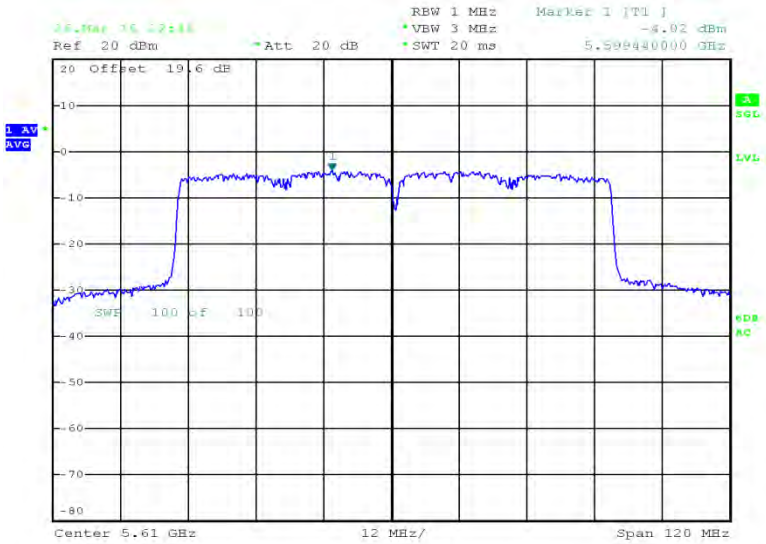
PSD, Chain 1

PSD, Chain 1 LOW CH



Date: 26.MAR.2015 22:43:23

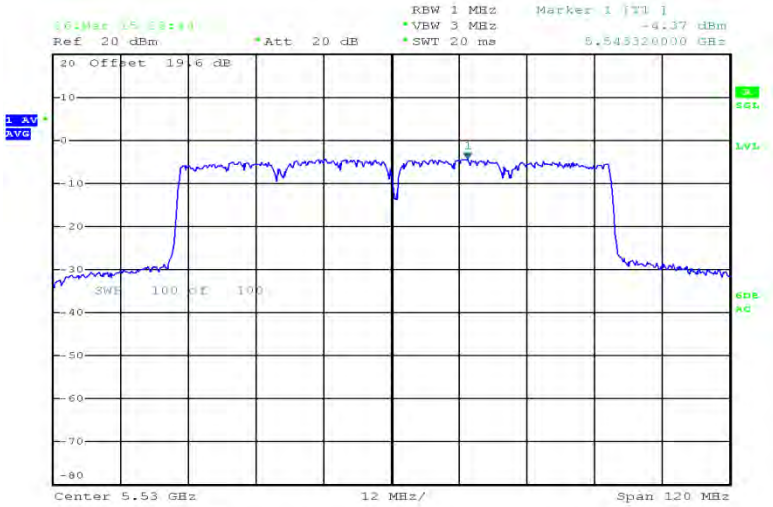
PSD, Chain 1 HIGH CH



Date: 26.MAR.2015 22:46:56

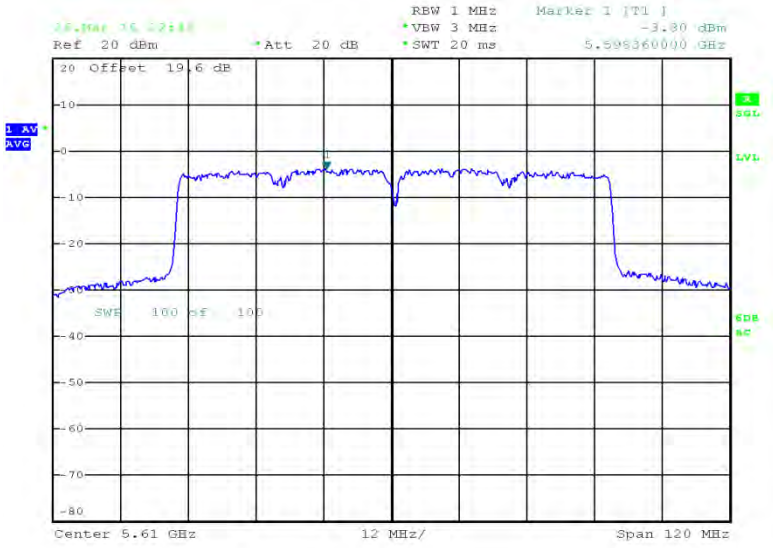
PSD, Chain 2

PSD, Chain 2 LOW CH



Date: 26.MAR.2015 22:44:03

PSD, Chain 2 HIGH CH



Date: 26.MAR.2015 22:48:56

STRADDLE CHANNEL 138 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
138	5690	115.25	6.21	10.98	23.79	6.02

Duty Cycle CF (dB)	0.18	Included in Calculations of Corr'd PSD

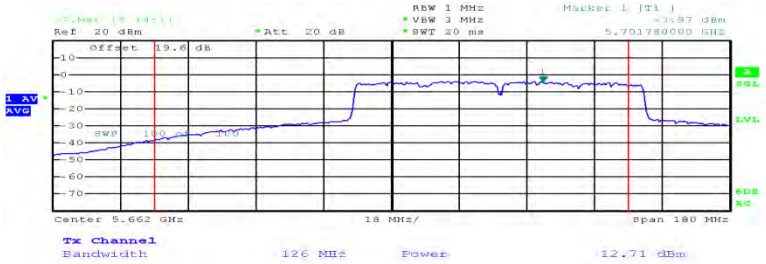
Output Power Results

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)	Power Margin (dB)
138	5690	12.71	12.09	12.40	17.36	23.79	-6.43

PSD Results

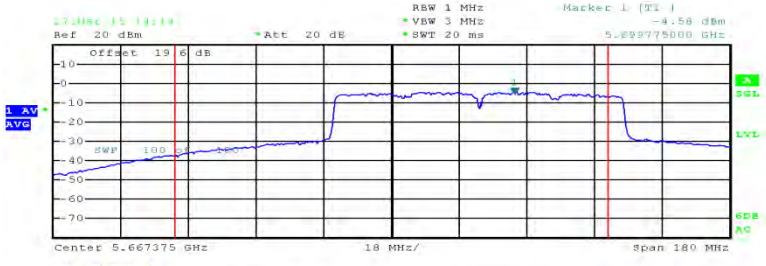
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
138	5690	-3.97	-4.58	-4.32	0.67	6.02	-5.35

OUTPUT POWER AND PSD, Chain 0 CH 138 UNII



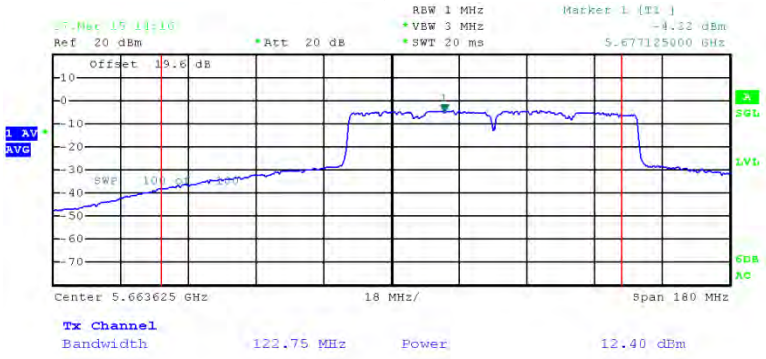
Date: 27.MAR.2015 14:11:43

OUTPUT POWER AND PSD, Chain 1 CH 138 UNII



Date: 27.MAR.2015 14:14:17

OUTPUT POWER AND PSD, Chain 2 CH 138 UNII



Date: 27.MAR.2015 14:16:04

UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
138	5690	6.21	10.98	29.79	25.02

Duty Cycle CF (dB)	0.18	Included in Calculations of Corr'd Power & PSD

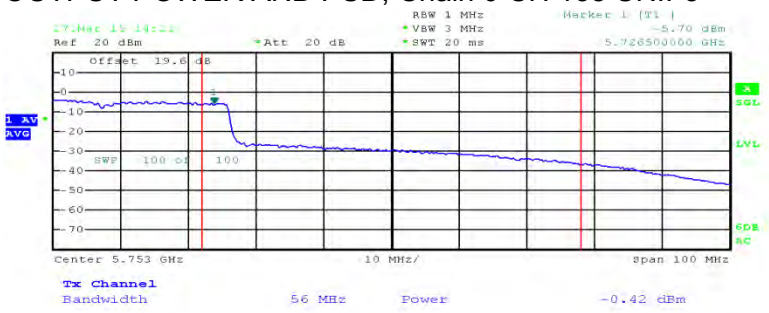
Output Power Results

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)	Power Margin (dB)
138	5690	-0.42	-1.21	-0.82	4.15	29.79	-25.64

PSD Results

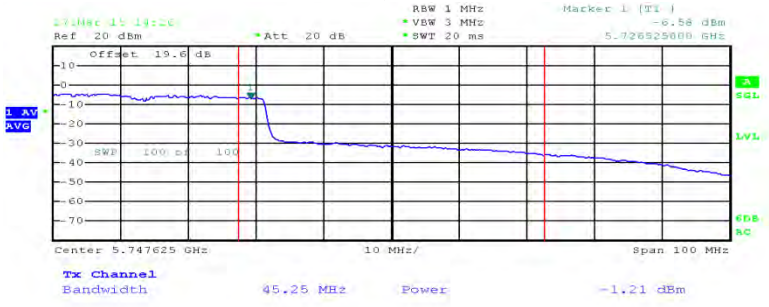
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
138	5690	-5.70	-6.58	-5.97	-1.12	25.02	-26.14

OUTPUT POWER AND PSD, Chain 0 CH 138 UNII-3



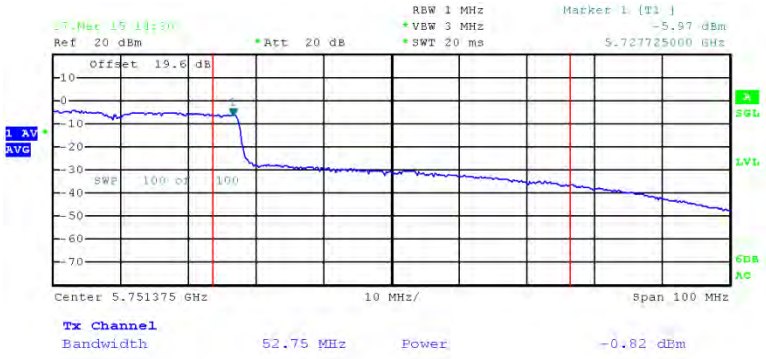
Date: 27.MAR.2015 14:22:51

OUTPUT POWER AND PSD, Chain 1 CH 138 UNII-3



Date: 27.MAR.2015 14:26:39

OUTPUT POWER AND PSD, Chain 2 CH 138 UNII-3



Date: 27.MAR.2015 14:30:03

8.31.4. AVERAGE OUTPUT POWER (WHOLE FUNDAMENTAL)

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

RESULTS

Output Power Results

Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)
138	5690	18.10	17.96	17.80	22.73

Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

8.32. 802.11ac VHT80 TxBF 3Tx MODE IN THE 5.6 GHz BAND

8.32.1. OUTPUT POWER AND PSD

LIMITS

FCC §15.407 (a) (2)

For the band 5.47–5.725 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26–dB emission bandwidth in MHz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1–MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

For power and PSD 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)
6.21	4.77	10.98

RESULTS

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
Low	5530	160.25	10.98	10.98	19.02	6.02
High	5610	172.00	10.98	10.98	19.02	6.02

Duty Cycle CF (dB)	0.18	Included in Calculations of Corr'd PSD

Output Power 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)	Power Margin (dB)
Low	5530	11.5	11.52	10.93	16.10	19.02	-2.92
High	5610	13.90	14.05	14.00	18.75	19.02	-0.27

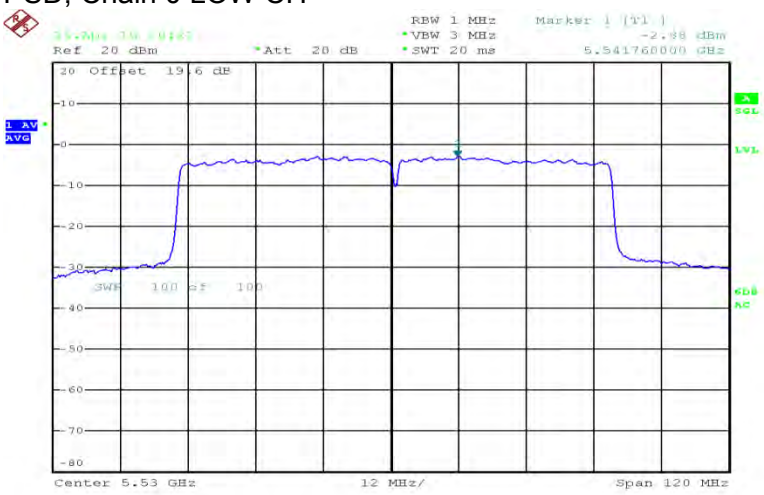
PSD Results

Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
Low	5530	-2.88	-3.62	-1.83	2.24	6.02	-3.78
High	5610	-2.92	-2.83	-3.12	2.00	6.02	-4.02

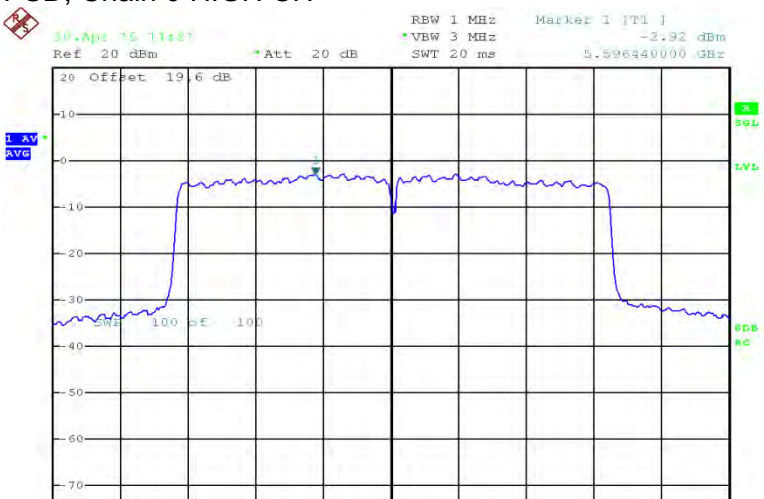
Note: the power readings above were measured with gated method, and the measurement was taken only during the ON time. No duty cycle correction was necessary.

PSD, Chain 0

PSD, Chain 0 LOW CH

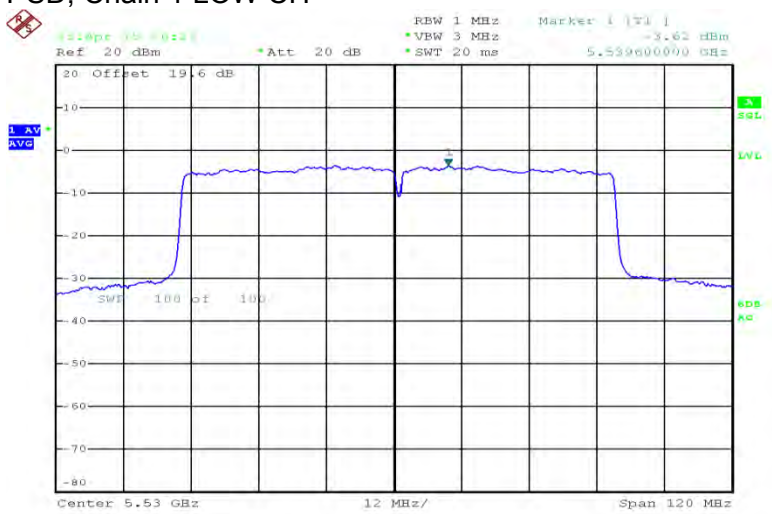


PSD, Chain 0 HIGH CH



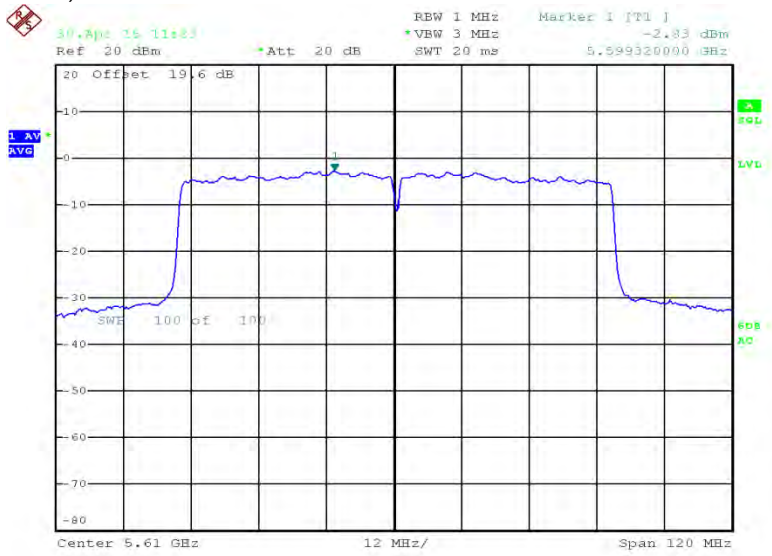
PSD, Chain 1

PSD, Chain 1 LOW CH



Date: 15.APR.2015 20:22:05

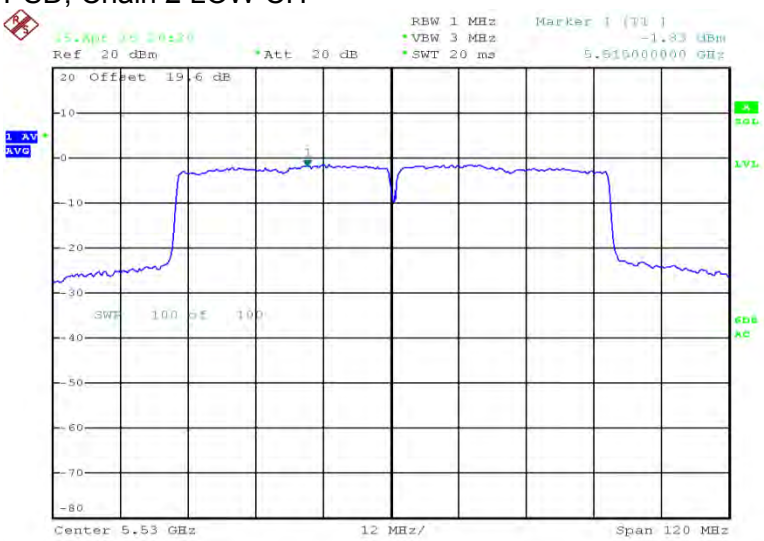
PSD, Chain 1 HIGH CH



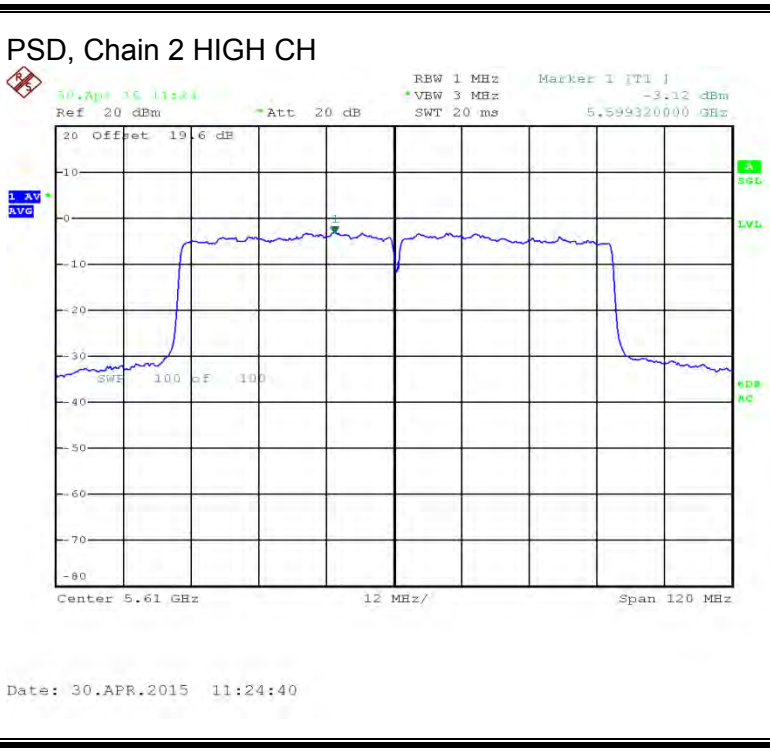
Date: 30.APR.2015 11:23:01

PSD, Chain 2

PSD, Chain 2 LOW CH



PSD, Chain 2 HIGH CH



STRADDLE CHANNEL 138 RESULTS

UNII-2C BAND

Bandwidth, Antenna Gain, and Limits

Channel	Frequency (MHz)	Min 26 dB BW (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
138	5690	115.25	10.98	10.98	19.02	6.02

Duty Cycle CF (dB)	0.18	Included in Calculations of Corr'd PSD

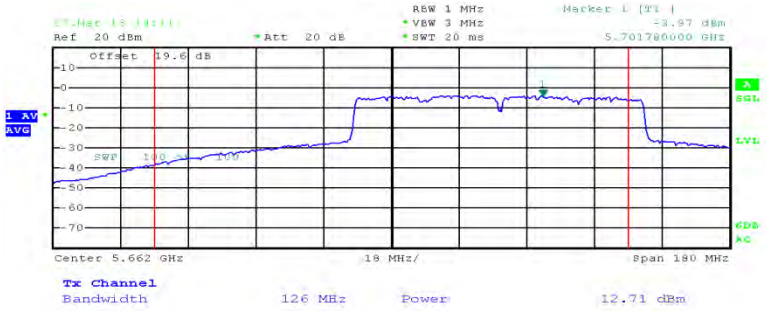
Output Power Results

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)	Power Margin (dB)
138	5690	12.71	12.09	12.40	17.36	19.02	-1.66

PSD Results

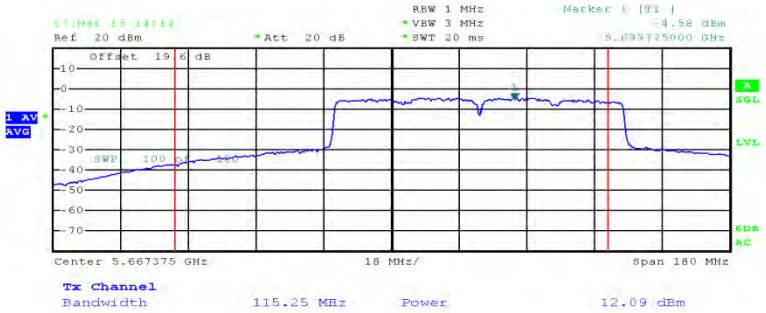
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
138	5690	-3.97	-4.58	-4.32	0.67	6.02	-5.35

OUTPUT POWER AND PSD, Chain 0 CH 138 UNII



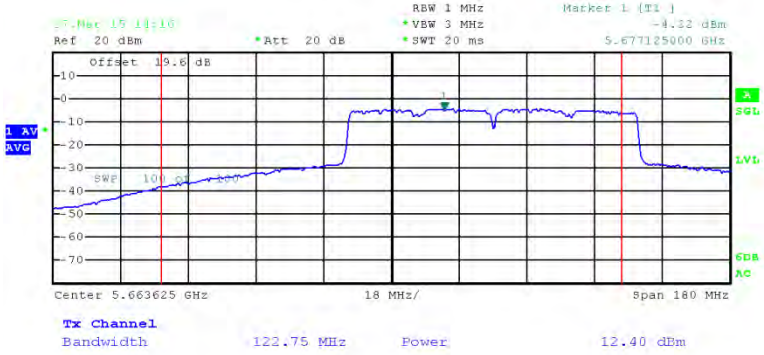
Date: 27.MAR.2015 14:11:43

OUTPUT POWER AND PSD, Chain 1 CH 138 UNII



Date: 27.MAR.2015 14:14:17

OUTPUT POWER AND PSD, Chain 2 CH 138 UNII



Date: 27.MAR.2015 14:16:04

UNII-3 BAND

Antenna Gain and Limit

Channel	Frequency (MHz)	Directional Gain for Power (dBi)	Directional Gain for PSD (dBi)	Power Limit (dBm)	PSD Limit (dBm)
138	5690	10.98	10.98	25.02	25.02

Duty Cycle CF (dB)	0.18	Included in Calculations of Corr'd Power & PSD

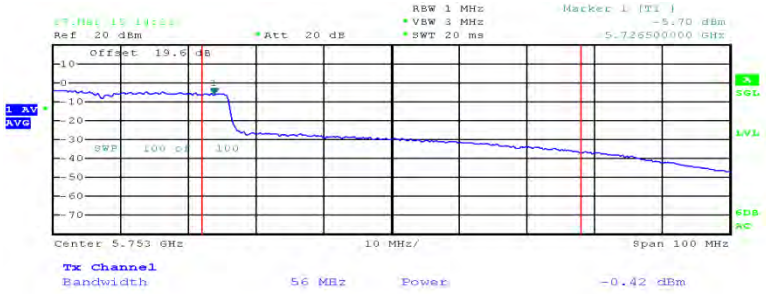
Output Power Results

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)	Power Margin (dB)
138	5690	-0.42	-1.21	-0.82	4.15	25.02	-20.87

PSD Results

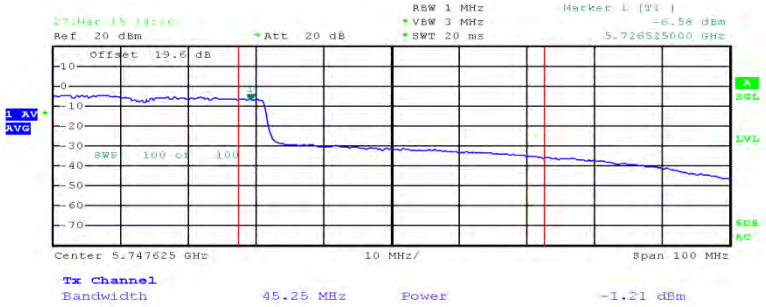
Channel	Frequency (MHz)	Chain 0 Meas PSD (dBm)	Chain 1 Meas PSD (dBm)	Chain 2 Meas PSD (dBm)	Total Corr'd PSD (dBm)	PSD Limit (dBm)	PSD Margin (dB)
138	5690	-5.70	-6.58	-5.97	-1.12	25.02	-26.14

OUTPUT POWER AND PSD, Chain 0 CH 138 UNII-3



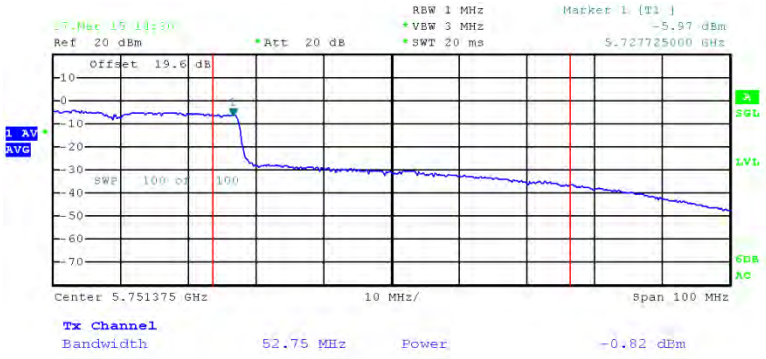
Date: 27.MAR.2015 14:22:51

OUTPUT POWER AND PSD, Chain 1 CH 138 UNII-3



Date: 27.MAR.2015 14:26:39

OUTPUT POWER AND PSD, Chain 2 CH 138 UNII-3



Date: 27.MAR.2015 14:30:03

8.32.2. AVERAGE OUTPUT POWER (WHOLE FUNDAMENTAL)

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

RESULTS

Output Power Results

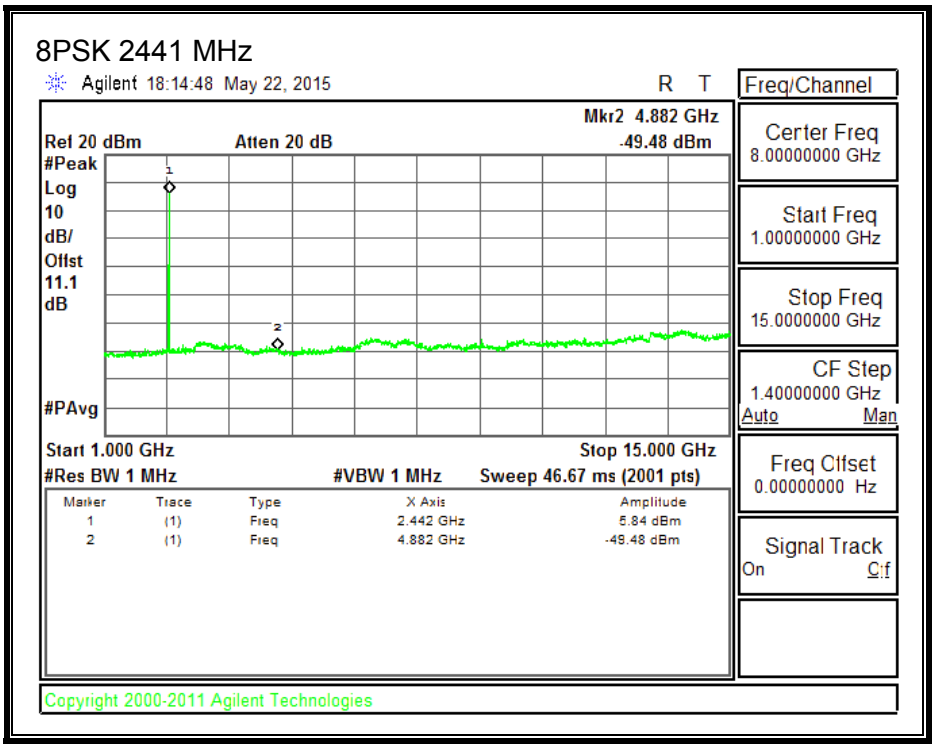
Channel	Frequency (MHz)	Chain 0 Meas Power (dBm)	Chain 1 Meas Power (dBm)	Chain 2 Meas Power (dBm)	Total Corr'd Power (dBm)
138	5690	18.10	17.96	17.80	22.73

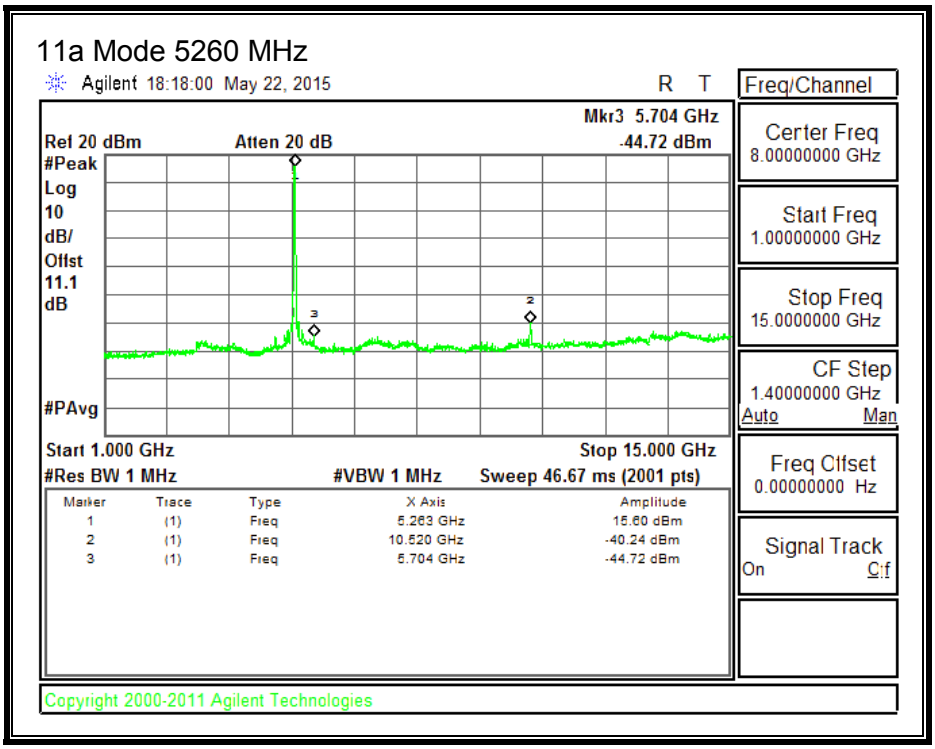
8.33. COLOCATION

Below table shows potential intermodulation frequencies due to Bluetooth and 5GHz WLAN simultaneous transmission.

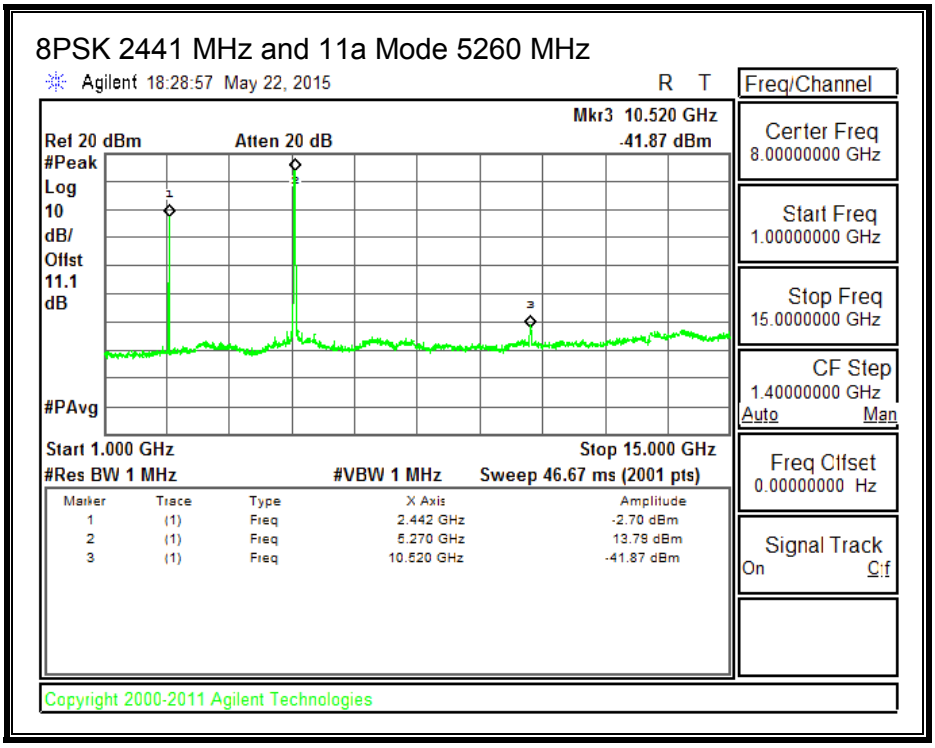
Modes	A	B	A + B	A - B	2A + B	A + 2B	A - 2B
8PSK + 11a 5.3 band	2441	5260	7701	2819	10142	12961	8079
8PSK + 11a 5.6 band	2441	5580	8021	3139	10462	13601	8719
8PSK + 11a 5.8 band	2441	5785	8226	3344	10667	14011	9129

8PSK and 802.11a Mode 5.3 GHz

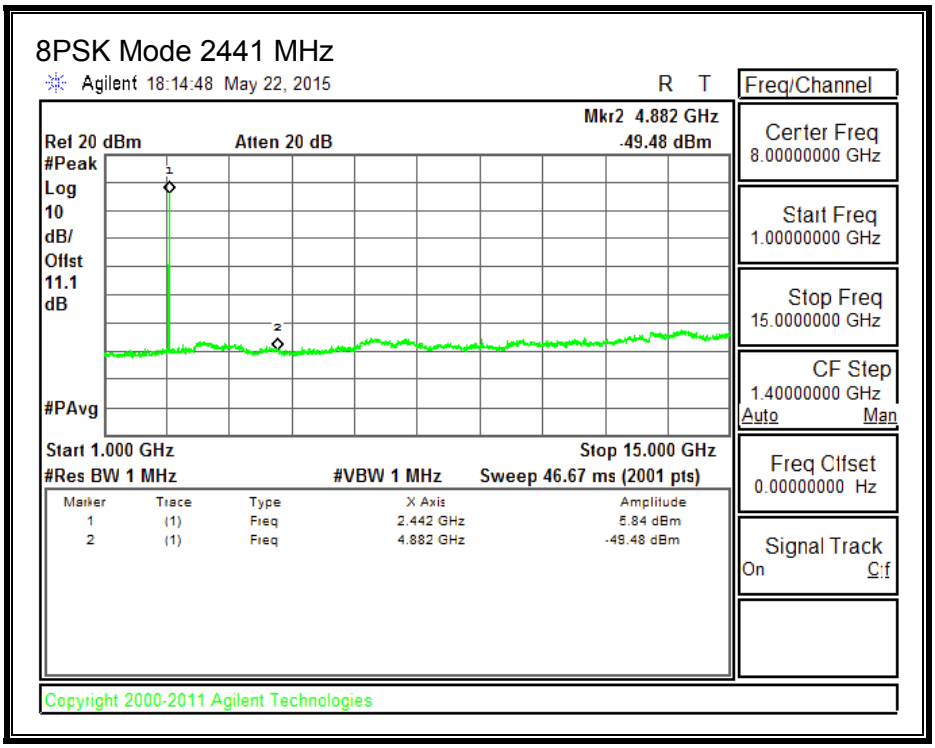


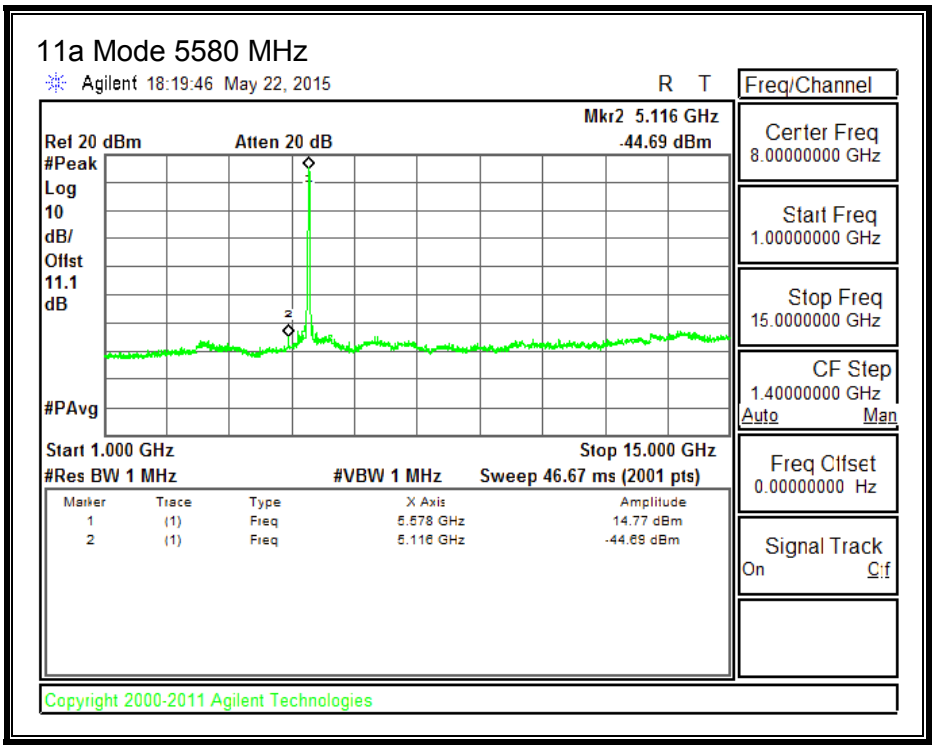


Colocation

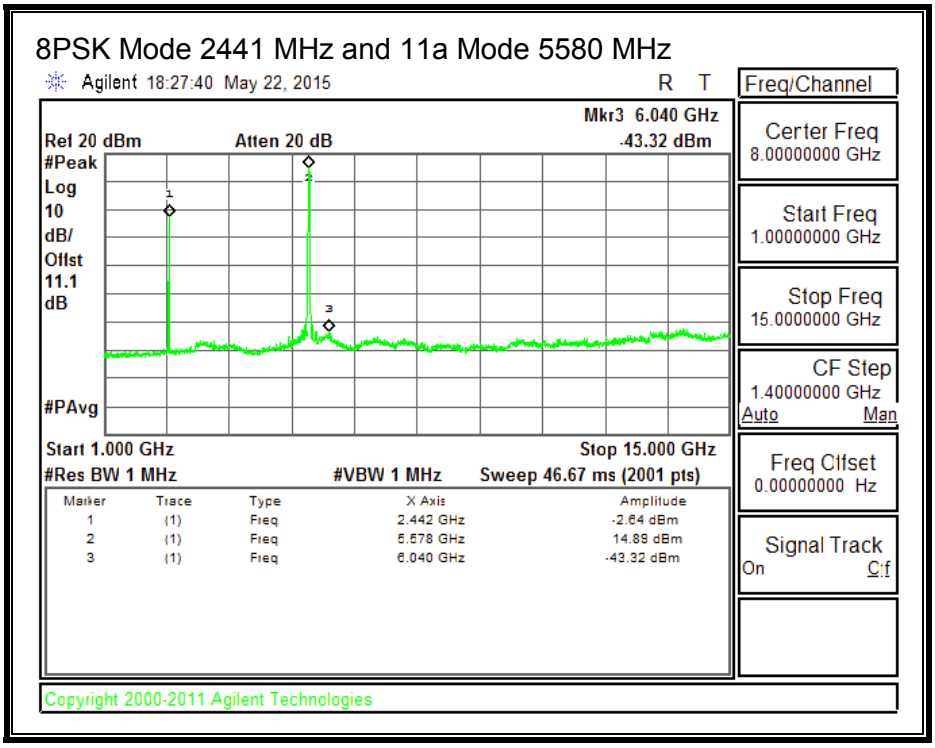


8PSK Mode and 802.11a Mode 5.6 GHz

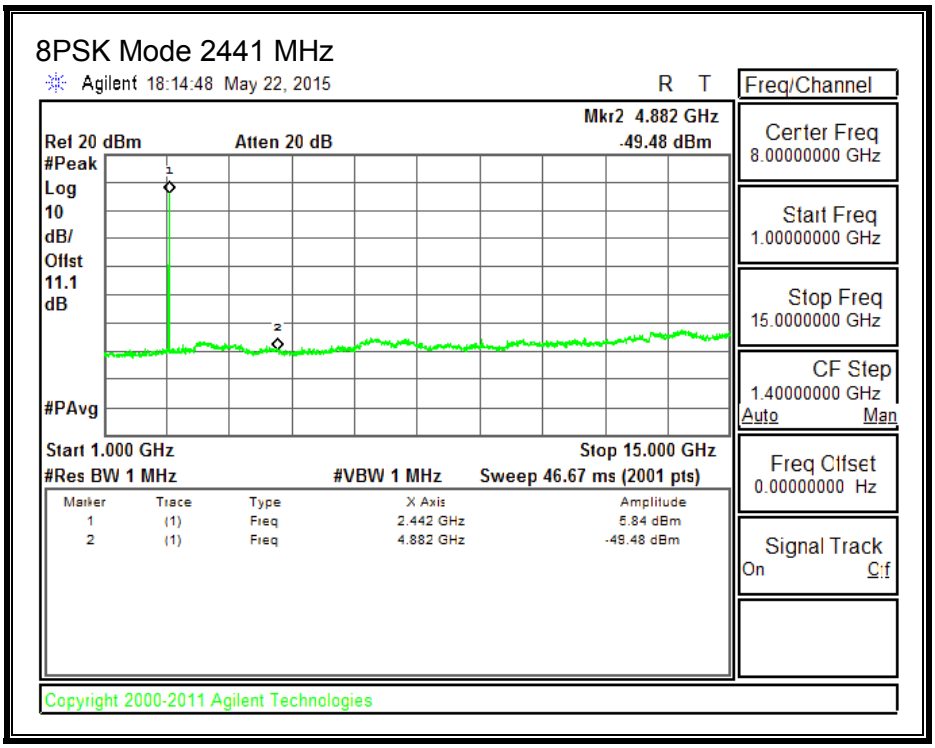


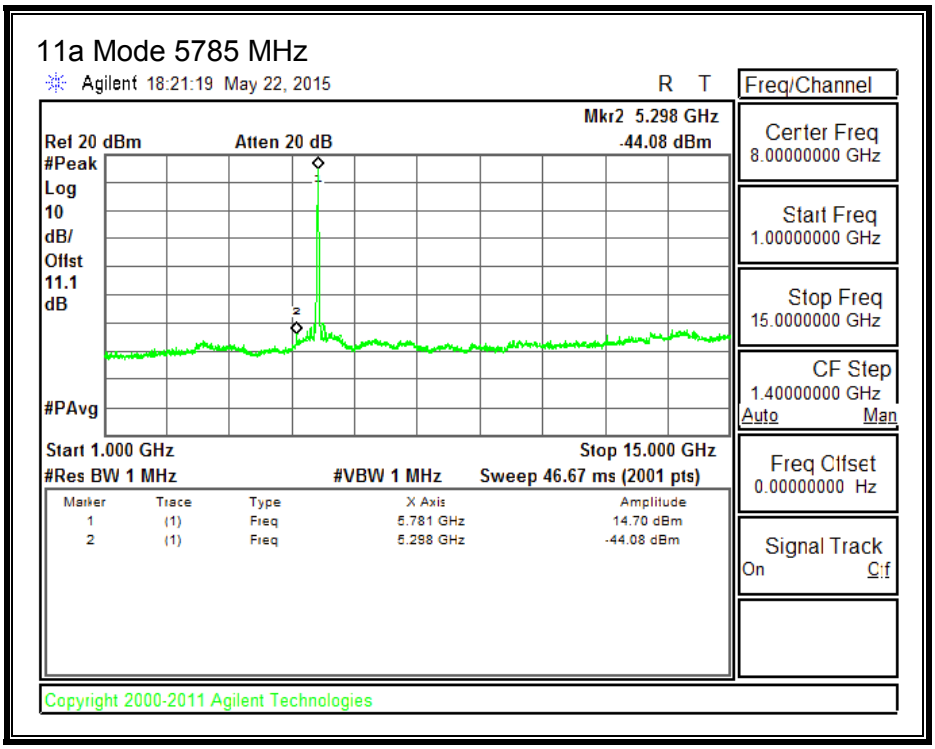


Colocation

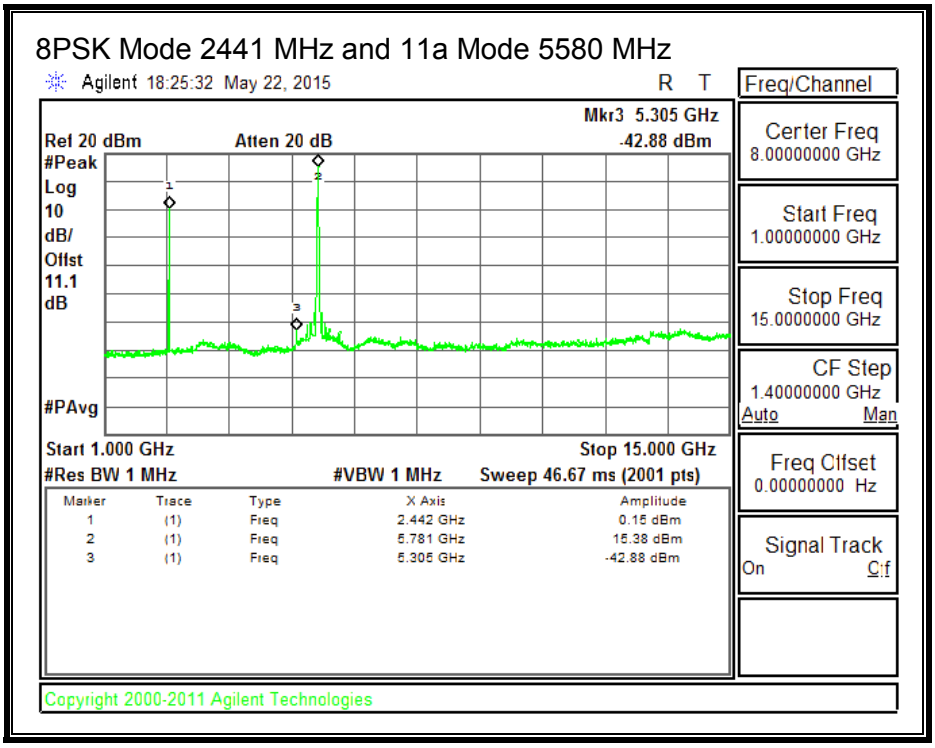


8PSK Mode and 802 11a Mode 5.8 GHz





Colocation



"For the co-located test, no other emissions were found after being investigated from the conducted measurement with all different combination frequencies between BT & 5GHz bands."

9. RADIATED TEST RESULTS

9.1. LIMITS AND PROCEDURE

LIMITS

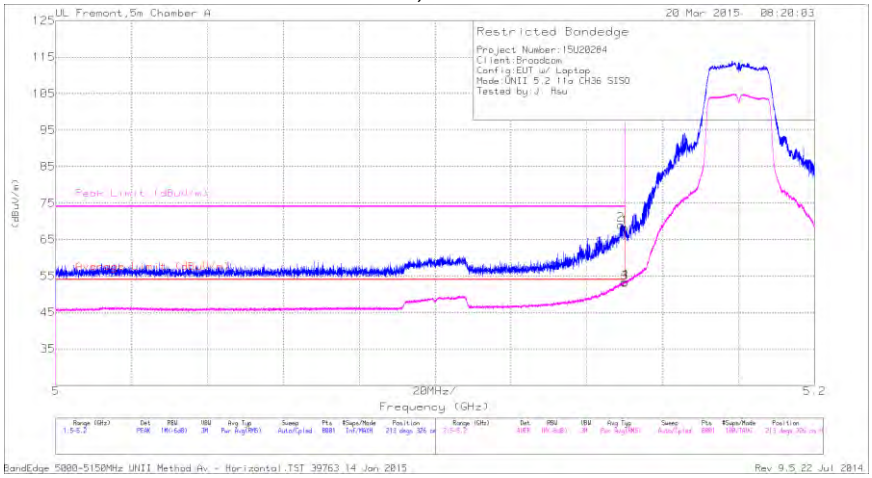
FCC §15.205 and §15.209

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

9.2. TX ABOVE 1 GHz 802.11a LEGACY MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

LOW CHANNEL RESTRICTED, HORIZ



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	25.59	PK	34.2	8.5	68.29	-	-	74	-5.71	213	326	H
2	* 5.149	26.4	PK	34.2	8.5	69.1	-	-	74	-4.9	213	326	H
3	* 5.15	10.41	RMS	34.2	8.5	53.11	54	-.89	-	-	213	326	H
4	* 5.15	10.73	RMS	34.2	8.5	53.43	54	-.57	-	-	213	326	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

9.3. TX ABOVE 1 GHz 802.11n HT20 CDD 3TX MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

LOW CHANNEL RESTRICTED, VERT

Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 5.149	29.61	PK	34.2	8.5	72.31	-	-	74	-1.69	87	126	V
4	* 5.149	11.03	RMS	34.2	8.5	53.73	54	-.27	-	-	87	126	V
1	* 5.15	24.08	PK	34.2	8.5	66.78	-	-	74	-7.22	87	126	V
3	* 5.15	10.22	RMS	34.2	8.5	52.92	54	-1.08	-	-	87	126	V

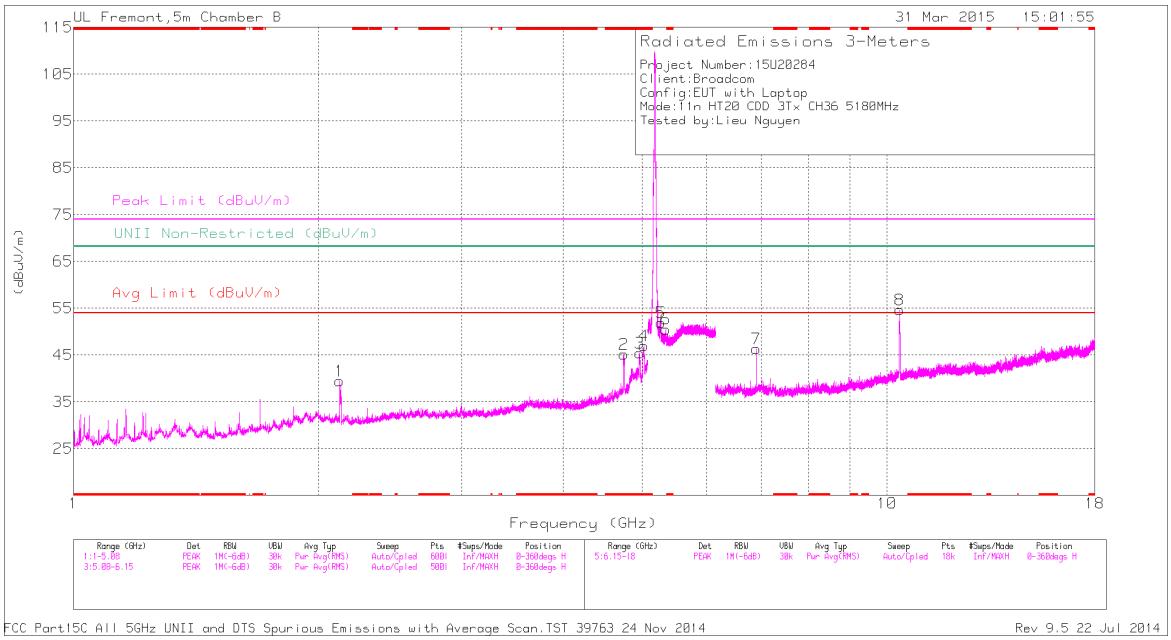
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

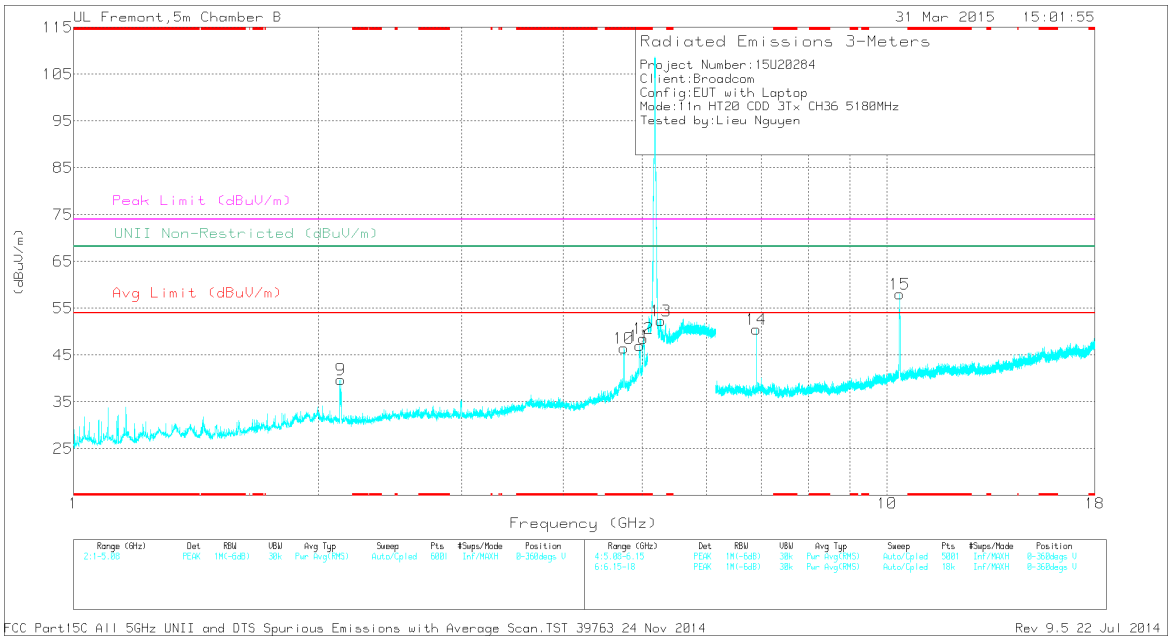
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL

HORIZONTAL



VERTICAL



Trace Markers

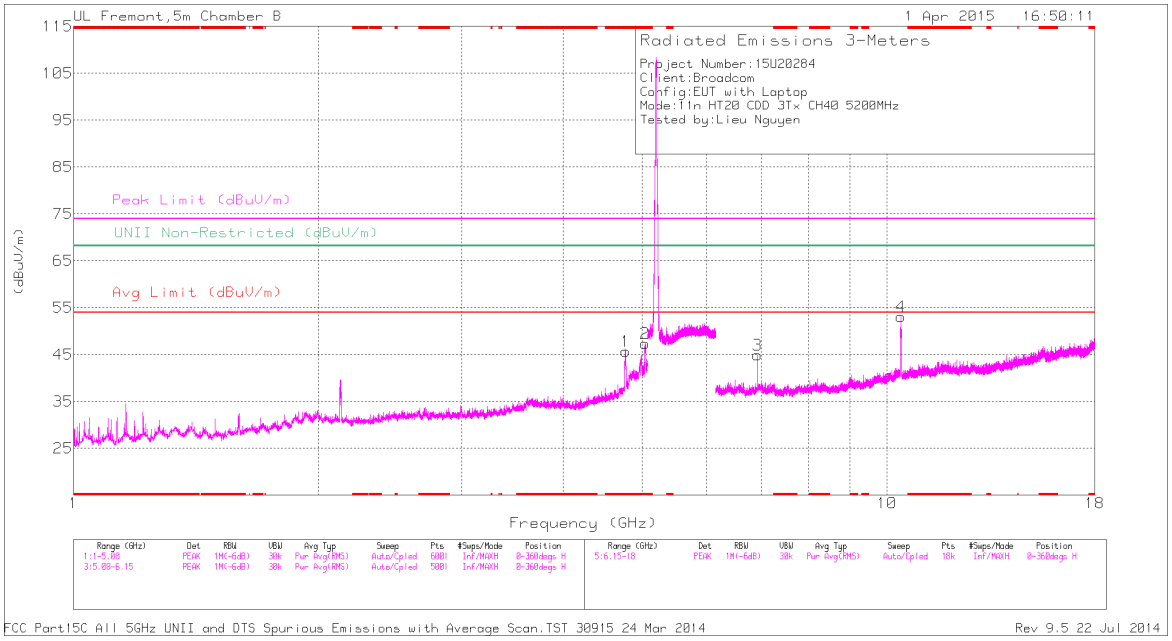
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.746	51.31	PK1	34.3	-29.6	0	56.01	-	-	74	-17.99	-	-	158	247	H
	* 4.746	41.88	AD1	34.3	-29.6	0	46.58	54	-7.42	-	-	-	-	158	247	H
3	* 4.963	51.12	PK1	34.1	-28.7	0	56.52	-	-	74	-17.48	-	-	28	237	H
	* 4.963	40.54	AD1	34.1	-28.7	0	45.94	54	-8.06	-	-	-	-	28	237	H
4	* 5.028	53.38	PK1	34	-28.8	0	58.58	-	-	74	-15.42	-	-	175	224	H
	* 5.027	42.54	AD1	34	-28.7	0	47.84	54	-6.16	-	-	-	-	175	224	H
10	* 4.749	51.3	PK1	34.3	-29.6	0	56	-	-	74	-18	-	-	306	259	V
	* 4.749	42.59	AD1	34.3	-29.6	0	47.29	54	-6.71	-	-	-	-	306	259	V
11	* 4.962	50.36	PK1	34.1	-28.7	0	55.76	-	-	74	-18.24	-	-	163	110	V
	* 4.962	39.59	AD1	34.1	-28.7	0	44.99	54	-9.01	-	-	-	-	163	110	V
12	* 5.012	50.52	PK1	34	-28.4	0	56.12	-	-	74	-17.88	-	-	186	220	V
	* 5.012	40.72	AD1	34	-28.4	0	46.32	54	-7.68	-	-	-	-	186	220	V
1	2.123	40.62	PK	31.6	-32.8	0	39.42	-	-	-	-	68.2	-28.78	0-360	101	H
9	2.129	40.89	PK	31.6	-32.7	0	39.79	-	-	-	-	68.2	-28.41	0-360	199	V
13	5.268	35.79	PK	34.3	-17.8	0	52.29	-	-	-	-	68.2	-15.91	0-360	101	V
5	5.269	35.4	PK	34.3	-17.8	0	51.9	-	-	-	-	68.2	-16.3	0-360	199	H
6	5.341	33.97	PK	34.4	-17.8	0	50.57	-	-	-	-	68.2	-17.63	0-360	199	H
7	6.907	38.2	PK	36.1	-28	0	46.3	-	-	-	-	68.2	-21.9	0-360	200	H
14	6.907	42.36	PK	36.1	-28	0	50.46	-	-	-	-	68.2	-17.74	0-360	200	V
15	10.359	43.46	PK	37.4	-22.8	0	58.06	-	-	-	-	68.2	-10.14	0-360	101	V
8	10.366	40.2	PK	37.4	-23	0	54.6	-	-	-	-	68.2	-13.6	0-360	200	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

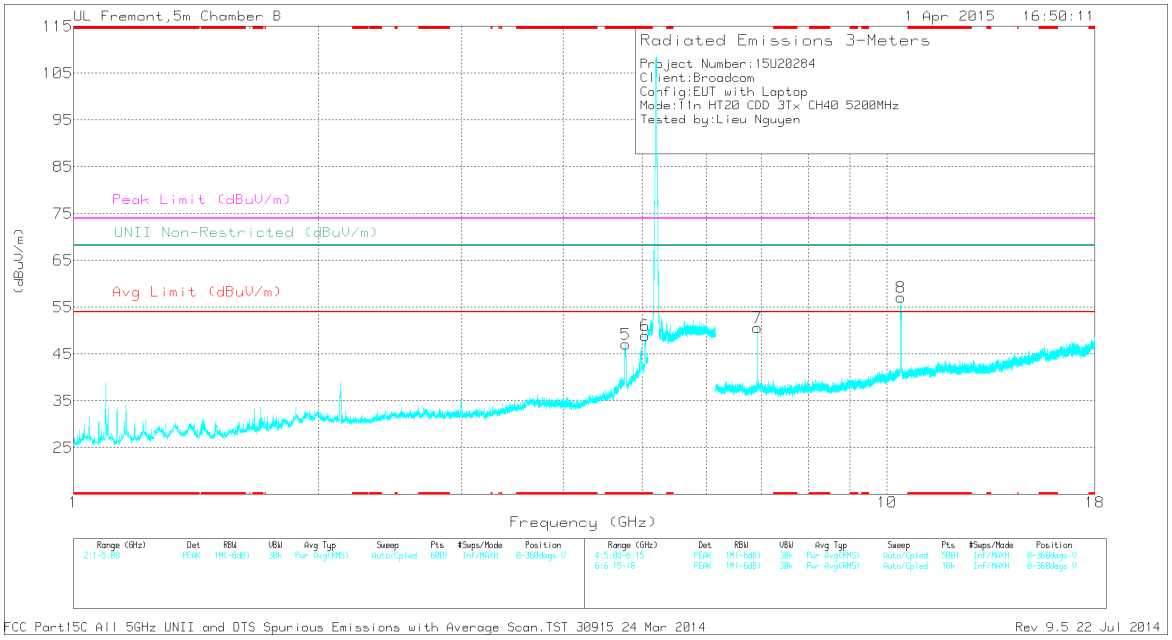
PK - Peak detector
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

MID CHANNEL

HORIZONTAL



VERTICAL



Trace Markers

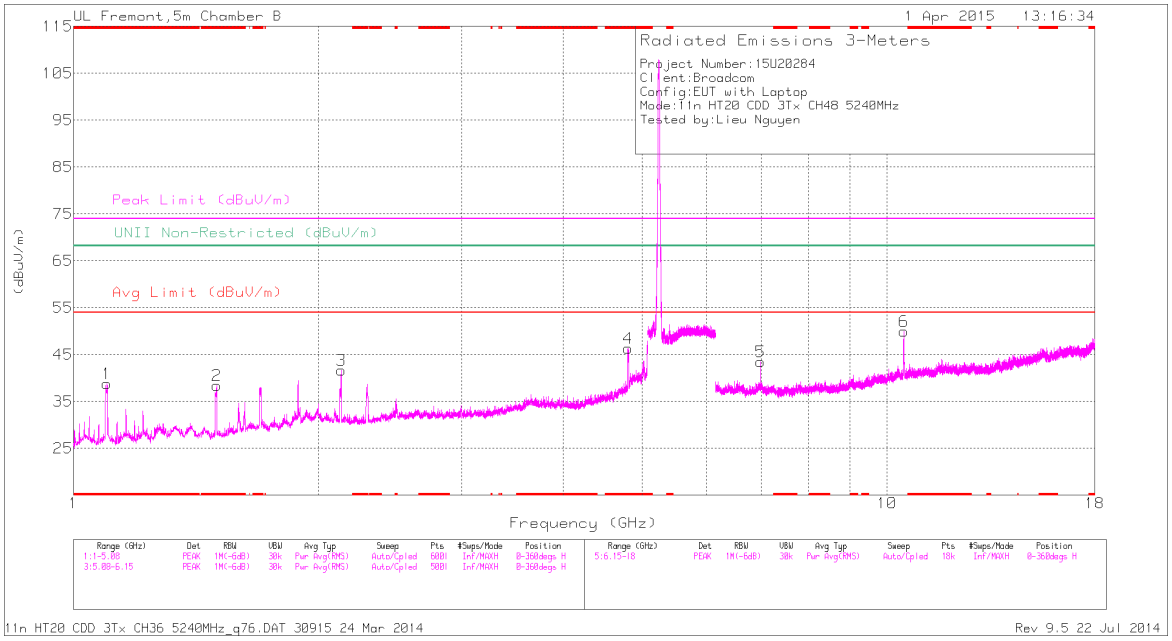
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Flt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.769	50.56	PK1	34.3	-29.3	0	55.56	-	-	74	-18.44	-	-	6	205	H
	* 4.769	41.13	AD1	34.3	-29.3	0	46.13	54	-7.87	-	-	-	-	6	205	H
2	* 5.039	51.26	PK1	34	-28.6	0	56.66	-	-	74	-17.34	-	-	2	252	H
	* 5.04	40.86	AD1	34	-28.6	0	46.26	54	-7.74	-	-	-	-	2	252	H
5	* 4.773	49.95	PK1	34.3	-29.3	0	54.95	-	-	74	-19.05	-	-	308	257	V
	* 4.773	40.61	AD1	34.3	-29.3	0	45.61	54	-8.39	-	-	-	-	308	257	V
6	* 5.042	52.78	PK1	34	-28.5	0	58.28	-	-	74	-15.72	-	-	61	185	V
	* 5.042	42.14	AD1	34	-28.5	0	47.64	54	-6.36	-	-	-	-	61	185	V
3	6.934	43.2	PK1	36.1	-27.2	0	52.1	-	-	-	-	68.2	-16.1	250	197	H
7	6.934	44.58	PK1	36.1	-27.2	0	53.48	-	-	-	-	68.2	-14.72	244	214	V
8	10.4	50.34	PK1	37.4	-23.4	0	64.34	-	-	-	-	68.2	-3.86	67	209	V
4	10.404	46.78	PK1	37.4	-23.4	0	60.78	-	-	-	-	68.2	-7.42	184	188	H

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

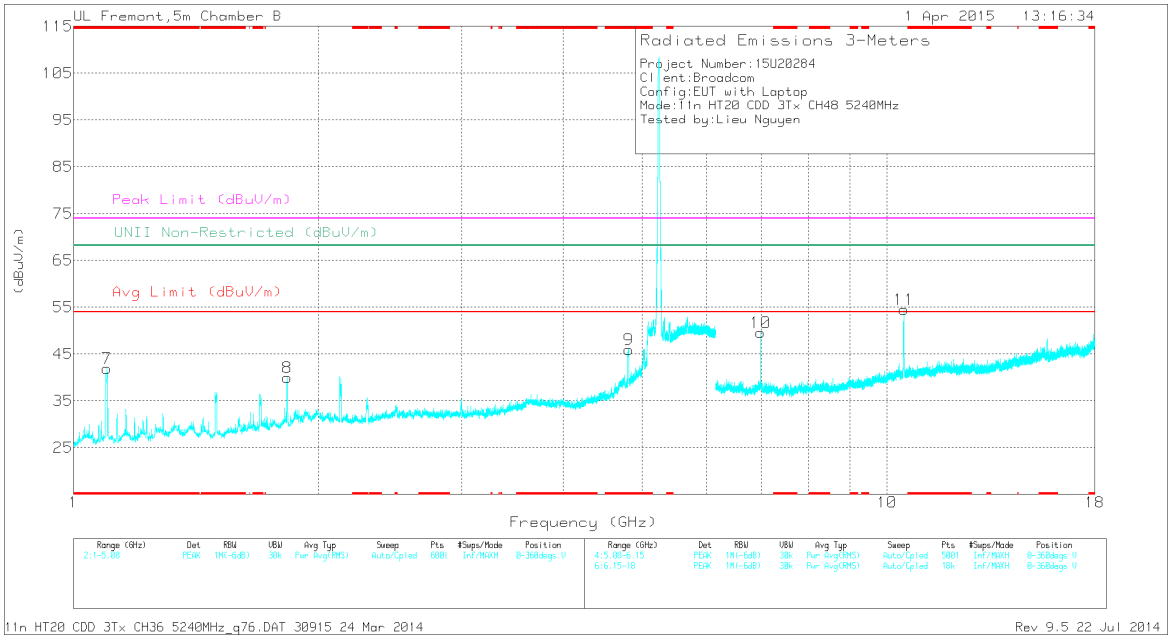
PK - Peak detector
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL

HORIZONTAL



VERTICAL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 1.099	51.11	PK1	27.6	-34	0	44.71	-	-	74	-29.29	-	-	246	180	H
	* 1.099	41.67	AD1	27.6	-34	0	35.27	54	-18.73	-	-	-	-	246	180	H
2	* 1.499	52.44	PK1	28.6	-34	0	47.04	-	-	74	-26.96	-	-	339	219	H
	* 1.499	40.27	AD1	28.6	-34	0	34.87	54	-19.13	-	-	-	-	339	219	H
4	* 4.806	50.93	PK1	34.3	-29.5	0	55.73	-	-	74	-18.27	-	-	6	224	H
	* 4.806	41.05	AD1	34.3	-29.5	0	45.85	54	-8.15	-	-	-	-	6	224	H
7	* 1.099	52.37	PK1	27.6	-34	0	45.97	-	-	74	-28.03	-	-	329	304	V
	* 1.099	43.3	AD1	27.6	-34	0	36.9	54	-17.1	-	-	-	-	329	304	V
9	* 4.812	48.71	PK1	34.3	-29.6	0	53.41	-	-	74	-20.59	-	-	71	116	V
	* 4.811	38.4	AD1	34.3	-29.6	0	43.1	54	-10.9	-	-	-	-	71	116	V
8	1.831	41.77	PK1	31.1	-33.2	0	39.67	-	-	-	-	68.2	-28.53	329	200	V
3	2.132	50.64	PK1	31.6	-32.6	0	49.64	-	-	-	-	68.2	-18.56	334	295	H
5	6.987	40.17	PK1	36	-27.1	0	49.07	-	-	-	-	68.2	-19.13	71	198	H
10	6.987	40.72	PK1	36	-27.1	0	49.62	-	-	-	-	68.2	-18.58	71	198	V
11	10.481	40.73	PK1	37.4	-23.4	0	54.73	-	-	-	-	68.2	-13.47	71	198	H
6	10.482	46.52	PK1	37.4	-23.4	0	60.52	-	-	-	-	68.2	-7.68	71	102	V

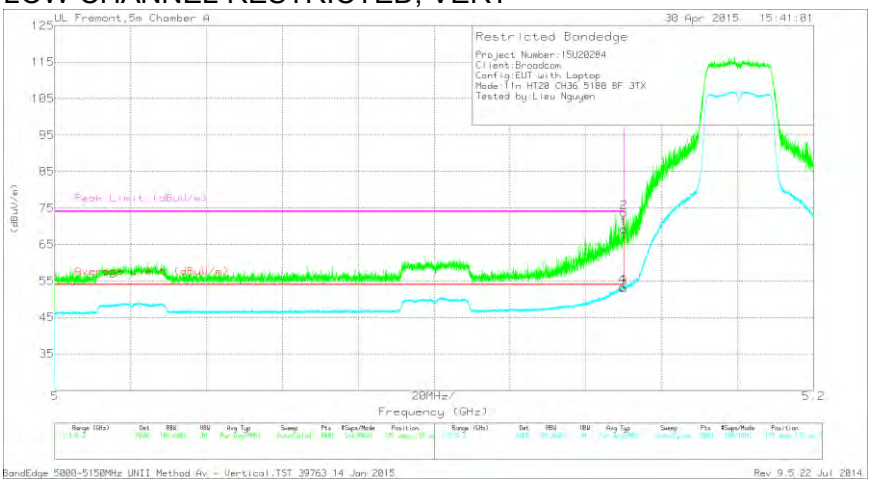
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

9.4. TX ABOVE 1 GHz 802.11n HT20 TxBF 3TX MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

LOW CHANNEL RESTRICTED, VERT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	27.54	PK	34.2	7.4	0	69.14	-	-	74	-4.86	191	135	V
2	* 5.15	32.11	PK	34.2	7.4	0	73.71	-	-	74	-.29	191	135	V
3	* 5.15	10.82	RMS	34.2	7.4	.65	53.07	54	-.93	-	-	191	135	V
4	* 5.15	11.12	RMS	34.2	7.4	.65	53.37	54	-.63	-	-	191	135	V

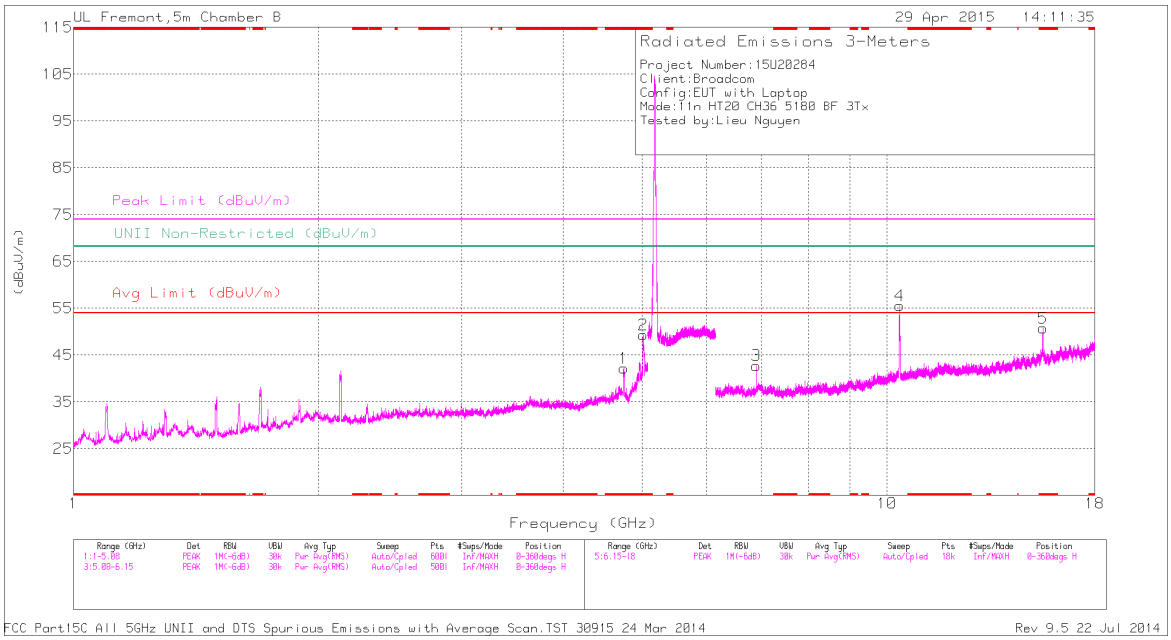
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

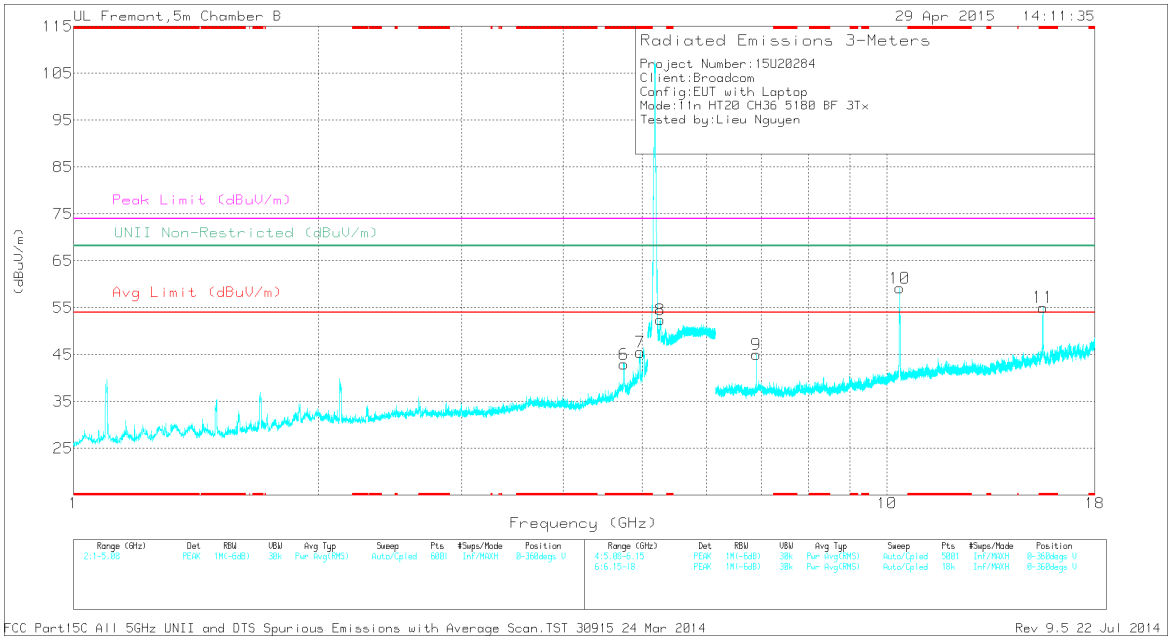
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL

HORIZONTAL



VERTICAL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 4.747	49.94	PK1	34.3	-29.6	0	54.64	-	-	74	-19.36	-	-	33	398	H
	* 4.745	39.03	AD1	34.3	-29.6	.65	44.38	54	-9.62	-	-	-	-	33	398	H
2	* 5.012	51.54	PK1	34	-28.4	0	57.14	-	-	74	-16.86	-	-	340	239	H
	* 5.012	42.16	AD1	34	-28.4	.65	48.41	54	-5.59	-	-	-	-	340	239	H
6	* 4.748	49.25	PK1	34.3	-29.6	0	53.95	-	-	74	-20.05	-	-	45	157	V
	* 4.75	38.65	AD1	34.3	-29.6	.65	44	54	-10	-	-	-	-	45	157	V
7	* 4.97	49	PK1	34.1	-28.5	0	54.6	-	-	74	-19.4	-	-	37	161	V
	* 4.971	37.87	AD1	34.1	-28.4	.65	44.22	54	-9.78	-	-	-	-	37	161	V
5	* 15.55	46.86	PK1	40.8	-20.2	0	67.46	-	-	74	-6.54	-	-	339	148	H
	* 15.548	31.87	AD1	40.8	-20.1	.65	53.22	54	-.8	-	-	-	-	339	148	H
11	* 15.55	43.83	PK1	40.8	-20.2	0	64.43	-	-	74	-9.57	-	-	295	291	V
	* 15.55	28.85	AD1	40.8	-20.2	.65	50.1	54	-3.9	-	-	-	-	295	291	V
8	5.266	44.89	PK1	34.3	-20.2	0	58.99	-	-	-	-	68.2	-9.21	62	185	V
3	6.907	35.96	PK1	36.1	-28	0	44.06	-	-	-	-	68.2	-24.14	141	341	V
9	6.908	36.66	PK1	36.1	-27.9	0	44.86	-	-	-	-	68.2	-23.34	203	400	H
10	10.361	51.61	PK1	37.4	-22.9	0	66.11	-	-	-	-	68.2	-2.09	310	112	V
4	10.363	45.63	PK1	37.4	-22.9	0	60.13	-	-	-	-	68.2	-8.07	149	185	H

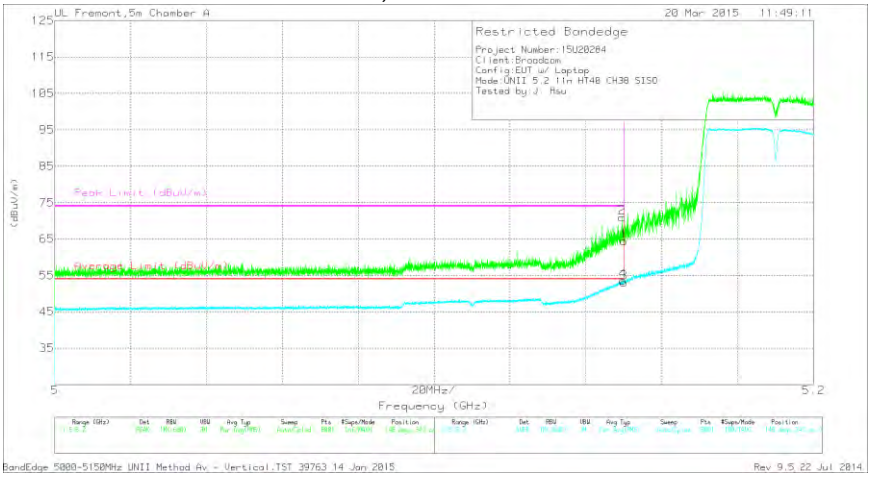
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

9.5. TX ABOVE 1 GHz 802.11n HT40 1TX MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (CHANNEL 38)

CHANNEL 38 RESTRICTED, VERT



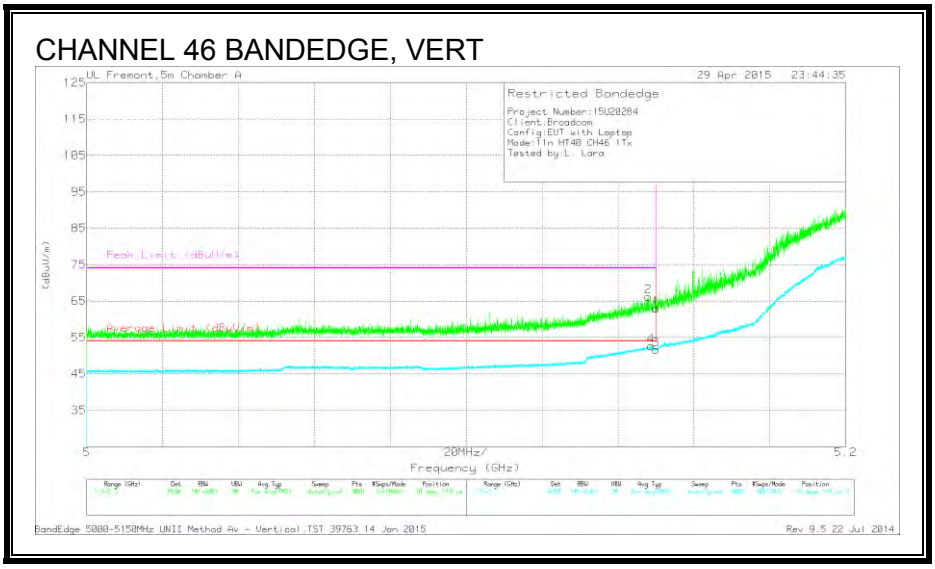
Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	21.77	PK	34.2	8.5	0	64.47	-	-	74	-9.53	148	343	V
2	* 5.15	28.22	PK	34.2	8.5	0	70.92	-	-	74	-3.08	148	343	V
3	* 5.15	10.28	RMS	34.2	8.5	.09	53.07	54	-.93	-	-	148	343	V
4	* 5.15	10.69	RMS	34.2	8.5	.09	53.48	54	-.52	-	-	148	343	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

RESTRICTED BANDEDGE (CHANNEL 46)



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 5.15	21.38	PK	34.2	7.4	0	62.98	-	-	74	-11.02	18	118	V
2	* 5.148	24.58	PK	34.2	7.4	0	66.18	-	-	74	-7.82	18	118	V
3	* 5.15	10.01	RMS	34.2	7.4	.09	51.7	54	-2.3	-	-	18	118	V
4	* 5.149	10.95	RMS	34.2	7.4	.09	52.64	54	-1.36	-	-	18	118	V

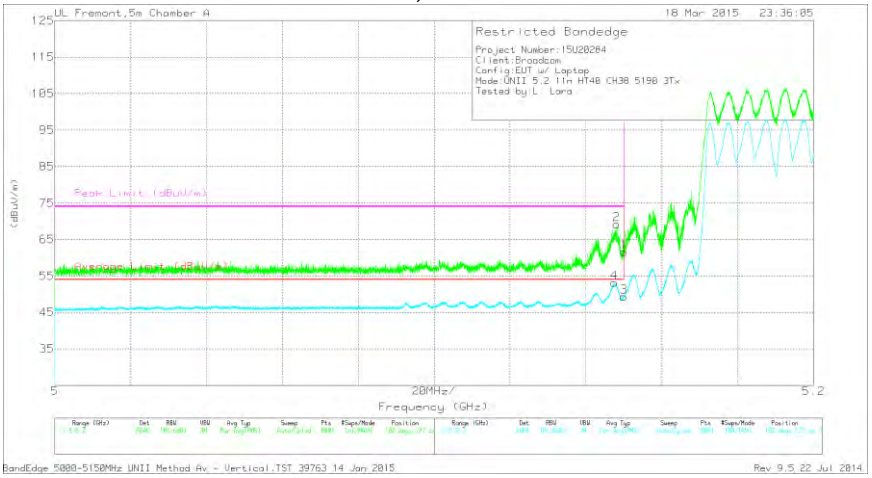
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

9.6. TX ABOVE 1 GHz 802.11n HT40 CDD 3TX MODE IN THE 5.2 GHz BAND

RESTRICTED BANDEDGE (LOW CHANNEL)

LOW CHANNEL RESTRICTED, VERT



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T136 (dB/m)	Bypass (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 5.147	10.32	RMS	34.2	8.5	.09	53.11	54	-.89	-	-	182	127	V
2	* 5.148	26.41	PK	34.2	8.5	0	69.11	-	-	74	-4.89	182	127	V
1	* 5.15	18.88	PK	34.2	8.5	0	61.58	-	-	74	-12.42	182	127	V
3	* 5.15	6.56	RMS	34.2	8.5	.09	49.35	54	-4.65	-	-	182	127	V

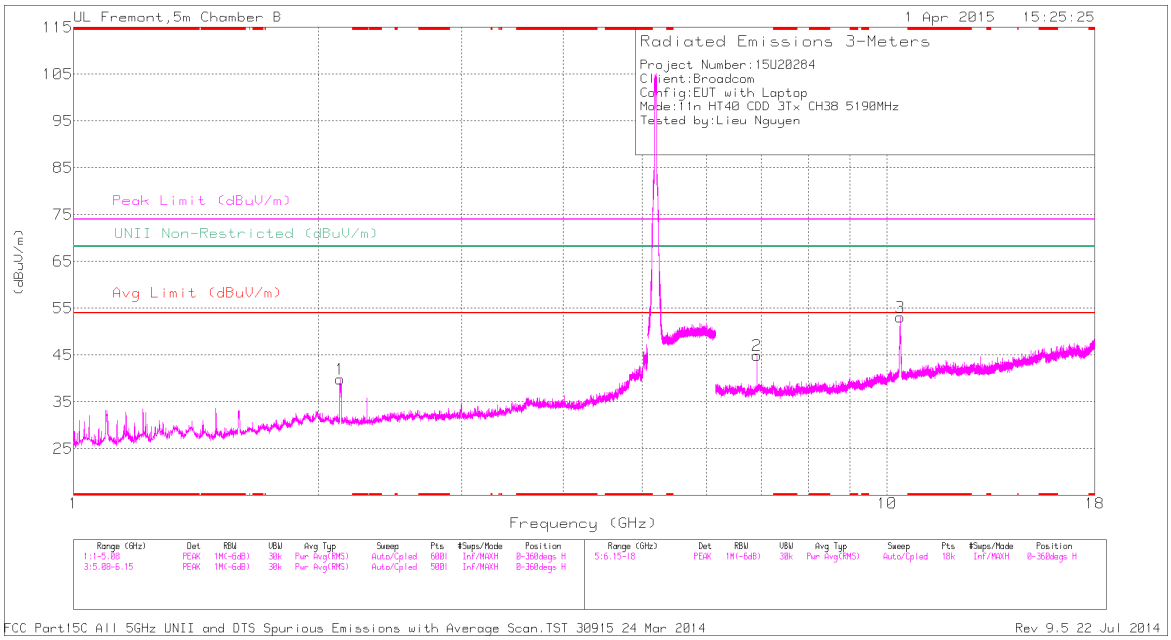
* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
RMS - RMS detection

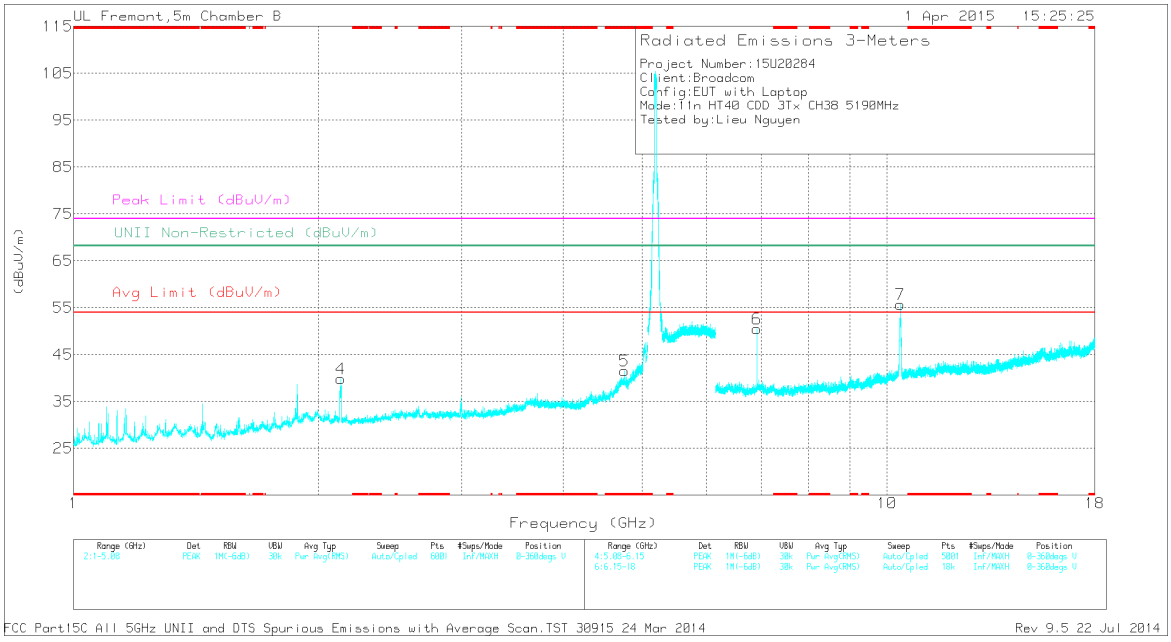
HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL

HORIZONTAL



VERTICAL



Trace Markers

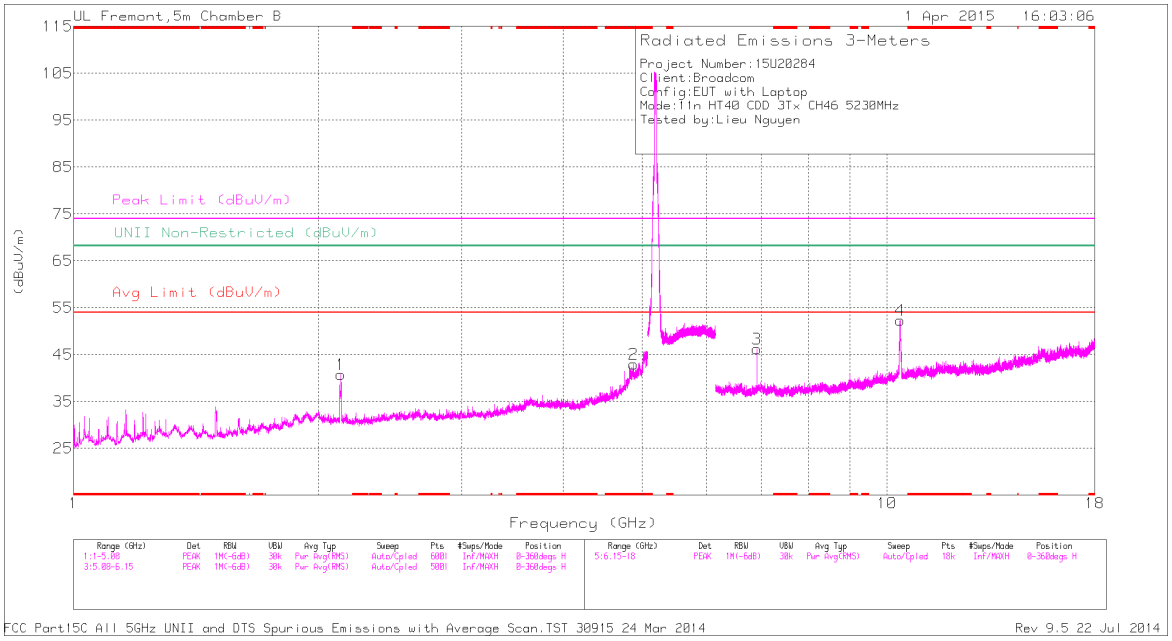
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl /Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
5	* 4.757	44.96	PK1	34.3	-29.4	0	49.86	-	-	74	-24.14	-	-	60	194	V
	* 4.758	34.37	AD1	34.3	-29.4	.09	39.36	54	-14.64	-	-	-	-	60	194	V
1	2.127	47.9	PK1	31.6	-32.7	0	46.8	-	-	-	-	68.2	-21.4	360	100	H
4	2.132	41.06	PK1	31.6	-32.6	0	40.06	-	-	-	-	68.2	-28.14	360	198	V
2	6.921	38.1	PK1	36.1	-27.5	0	46.7	-	-	-	-	68.2	-21.5	60	201	H
6	6.921	40.22	PK1	36.1	-27.5	0	48.82	-	-	-	-	68.2	-19.38	60	201	V
3	10.377	44.18	PK1	37.4	-23.2	0	58.38	-	-	-	-	68.2	-9.82	60	201	H
7	10.38	49.24	PK1	37.4	-23.3	0	63.34	-	-	-	-	68.2	-4.86	60	102	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

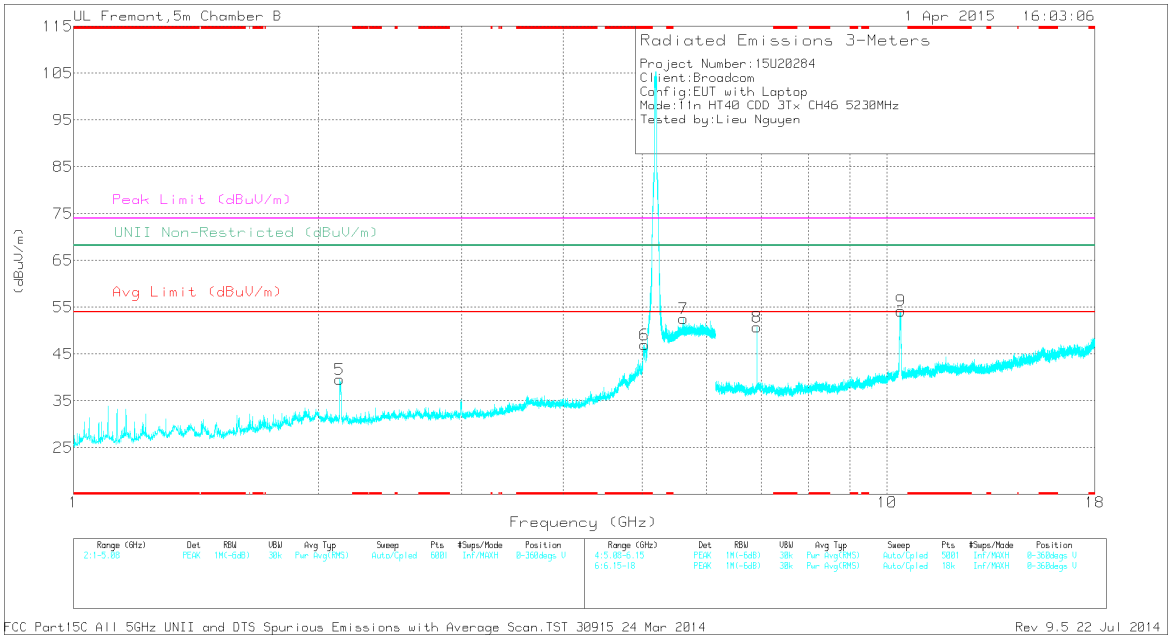
PK - Peak detector
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average

HIGH CHANNEL

HORIZONTAL



VERTICAL



Trace Markers

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/ Fltr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/ m)	PK Margin (dB)	UNII Non-Restricted (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 4.88	46.27	PK1	34.2	-29.8	0	50.67	-	-	74	-23.33	-	-	3	240	H
	* 4.876	35.32	AD1	34.2	-29.8	.09	39.81	54	-14.19	-	-	-	-	3	240	H
6	* 5.033	51.5	PK1	34	-28.8	0	56.7	-	-	74	-17.3	-	-	63	164	V
	* 5.033	40.48	AD1	34	-28.8	.09	45.77	54	-8.23	-	-	-	-	63	164	V
5	2.124	40.82	PK1	31.6	-32.8	0	39.62	-	-	-	-	68.2	-28.58	3	102	V
1	2.129	46.59	PK1	31.6	-32.7	0	45.49	-	-	-	-	68.2	-22.71	1	101	H
7	5.623	43.93	PK1	34.8	-20.1	0	58.63	-	-	-	-	68.2	-9.57	63	198	V
3	6.92	39.98	PK1	36.1	-27.5	0	48.58	-	-	-	-	68.2	-19.62	63	198	H
8	6.921	40.57	PK1	36.1	-27.5	0	49.17	-	-	-	-	68.2	-19.03	63	199	V
4	10.375	36.71	PK1	37.4	-23.2	0	50.91	-	-	-	-	68.2	-17.29	63	102	H
9	10.393	46.76	PK1	37.4	-23.4	0	60.76	-	-	-	-	68.2	-7.44	63	102	V

* - indicates frequency in CFR15.205/IC8.10 Restricted Band

PK - Peak detector
PK1 - KDB789033 Method: Peak
AD1 - KDB789033 Method: AD Primary Power Average