

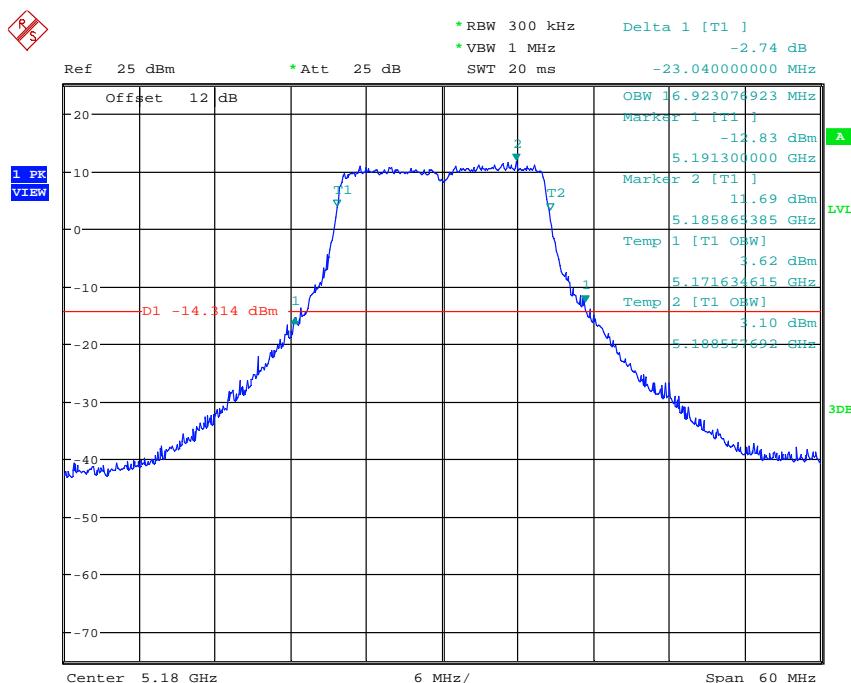
Registration number: W6M21411-14659-C-54  
 FCC ID: ZTT-REC33A

## 3.2 26dB emission bandwidth, 99% Occupied Bandwidth, FCC 15.407 (a)

According to §15.407(a). No Limit required.

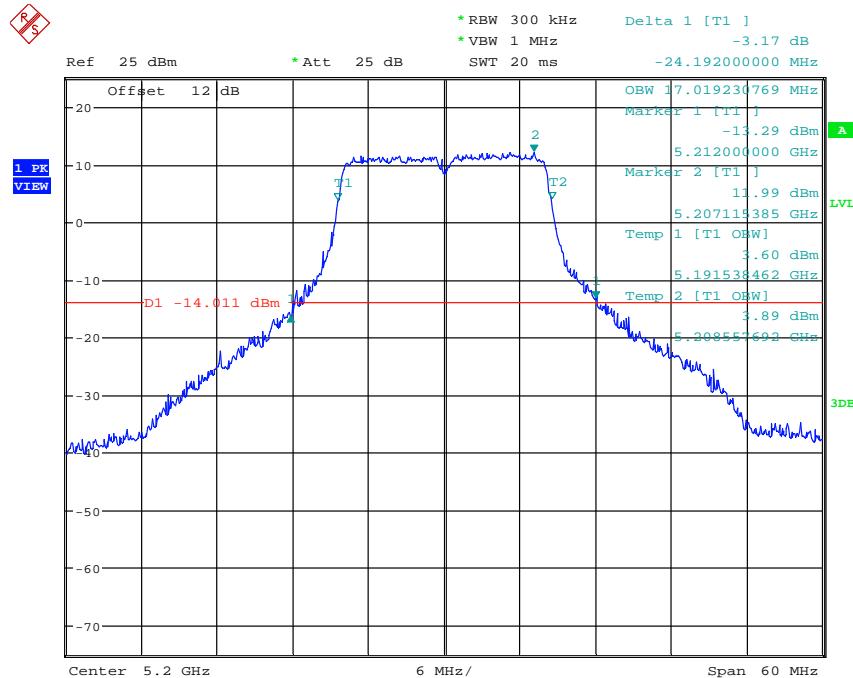
Result:

ANT0

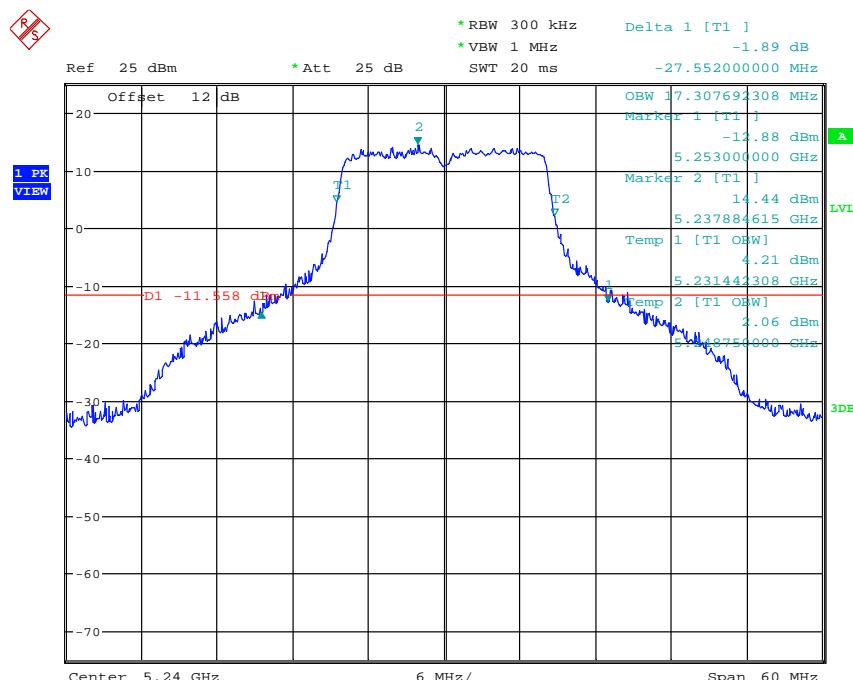


99% OBW & 26DB BANDWIDTH CDD ANT0\_a Mode\_CH36  
 Date: 4.FEB.2015 09:25:57

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

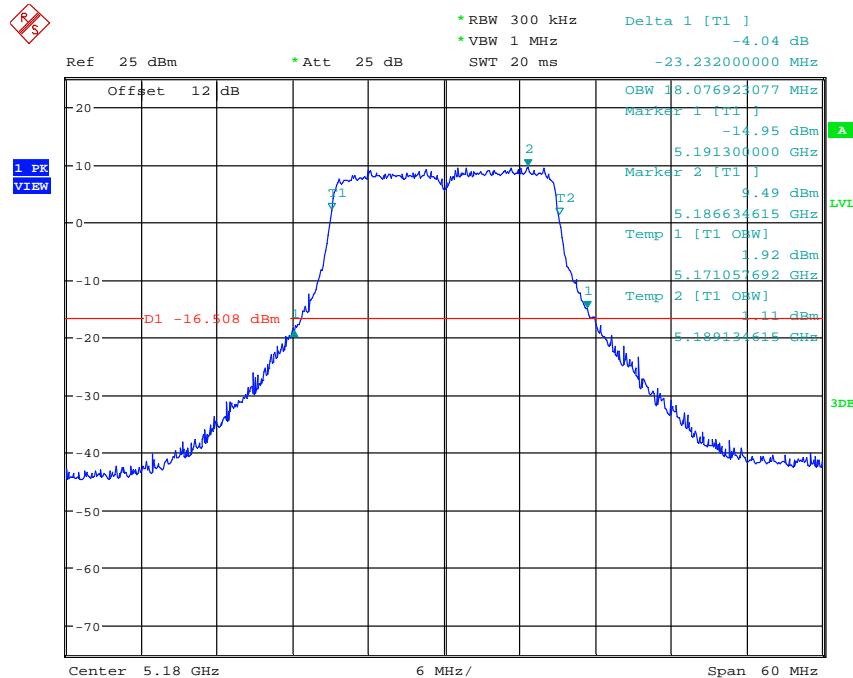


99% OBW & 26DB BANDWIDTH CDD ANTO\_a Mode\_CH40  
Date: 4.FEB.2015 10:39:49

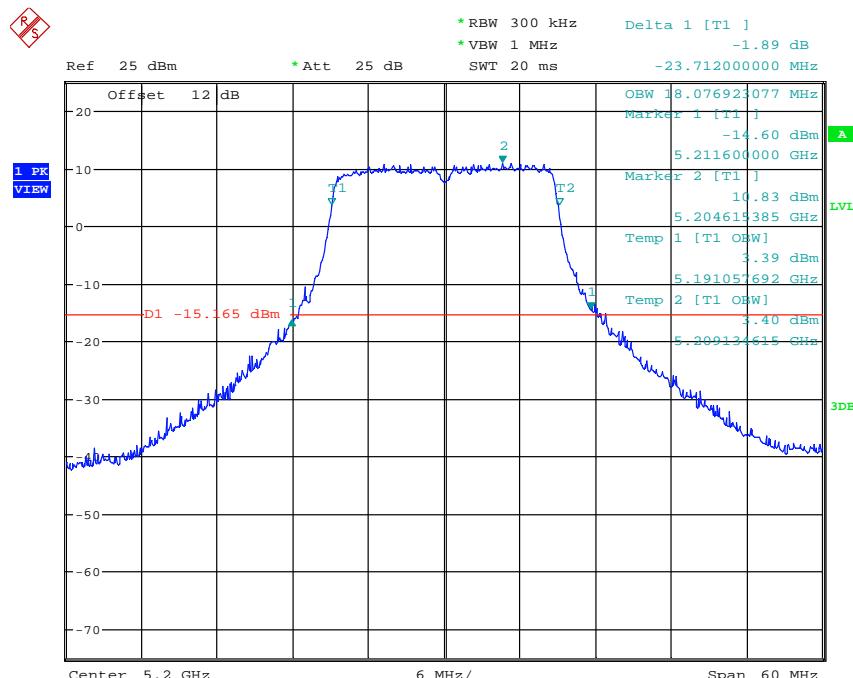


99% OBW & 26DB BANDWIDTH CDD ANTO\_a Mode\_CH48  
Date: 4.FEB.2015 09:34:01

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

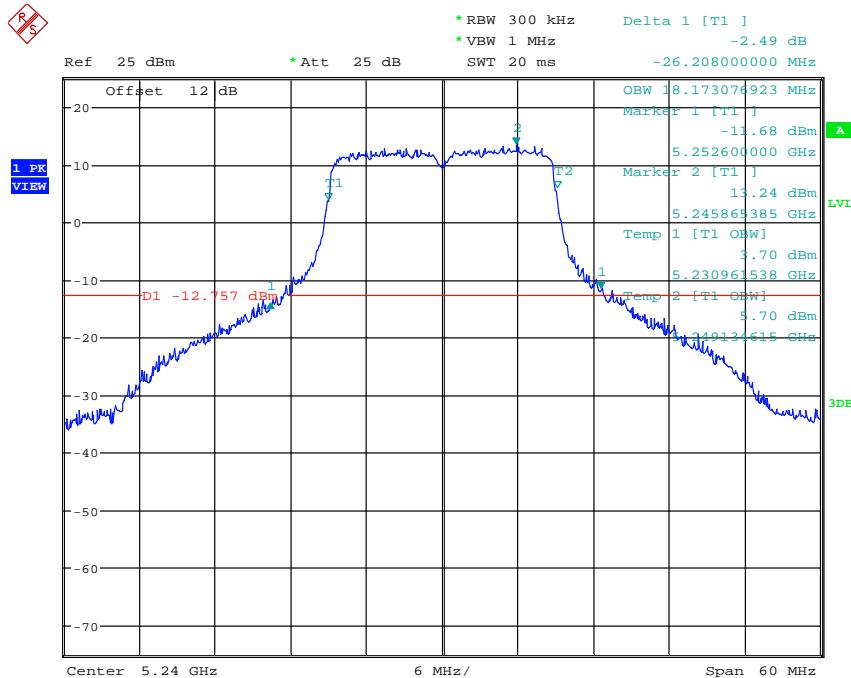


99% OBW & 26DB BANDWIDTH CDD ANTO\_VHT20\_CH36  
Date: 4.FEB.2015 09:48:18

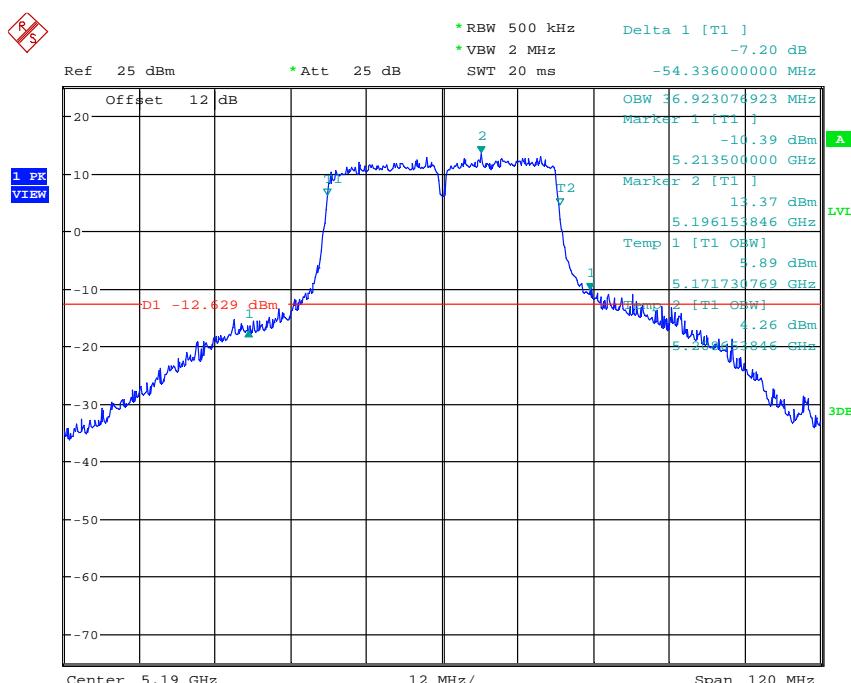


99% OBW & 26DB BANDWIDTH CDD ANTO\_VHT20\_CH40  
Date: 4.FEB.2015 09:54:27

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

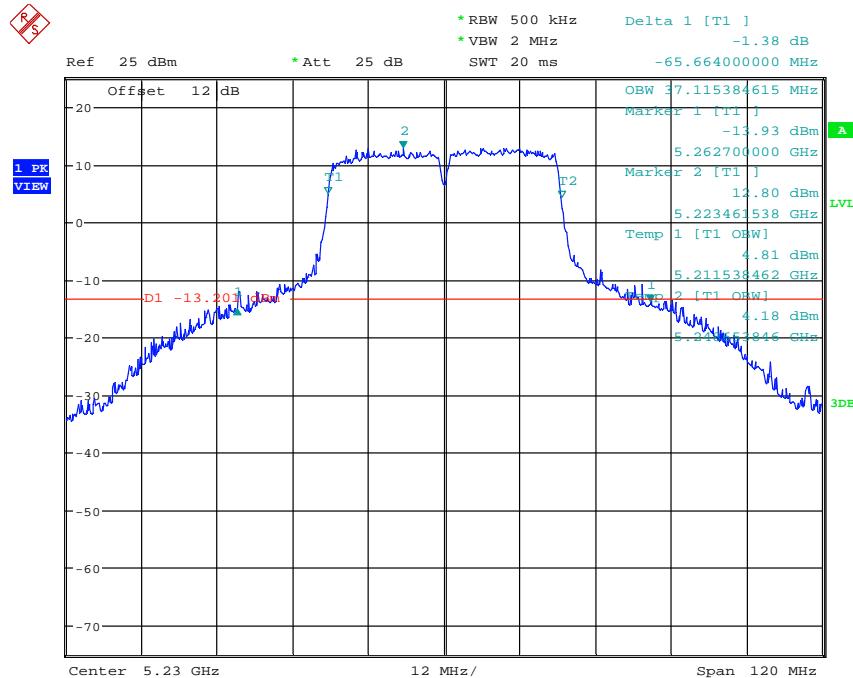


99% OBW & 26DB BANDWIDTH CDD ANTO\_VHT20\_CH48  
Date: 4.FEB.2015 09:58:29

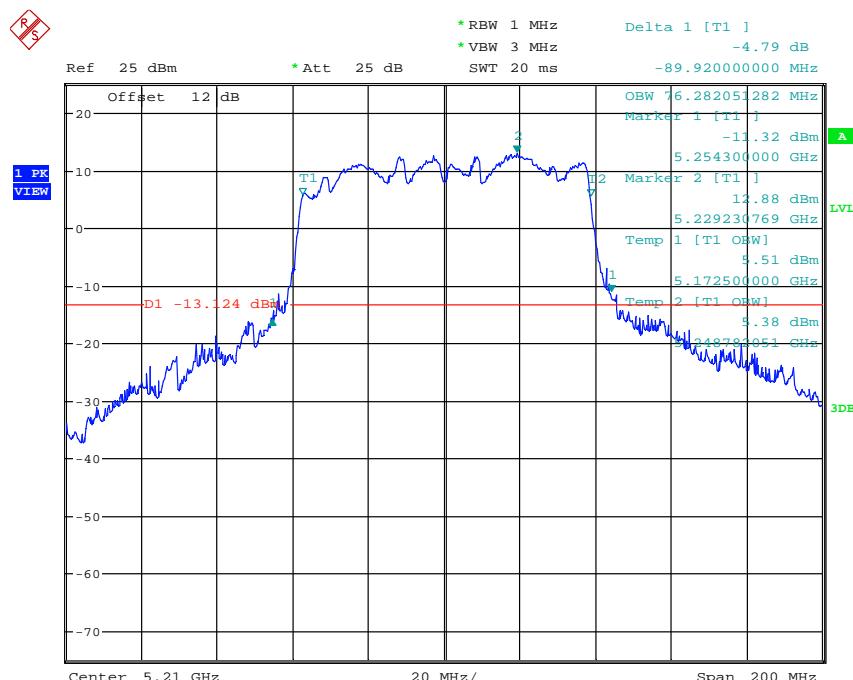


99% OBW & 26DB BANDWIDTH CDD ANTO\_VHT40\_CH38  
Date: 4.FEB.2015 10:04:04

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



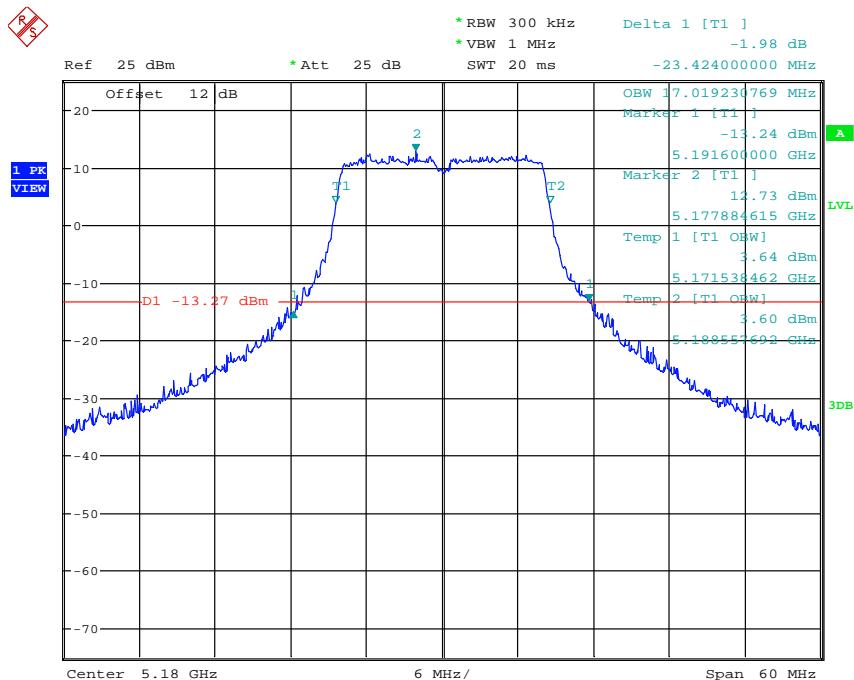
99% OBW & 26DB BANDWIDTH CDD ANTO\_VHT40\_CH46  
Date: 4.FEB.2015 10:09:18



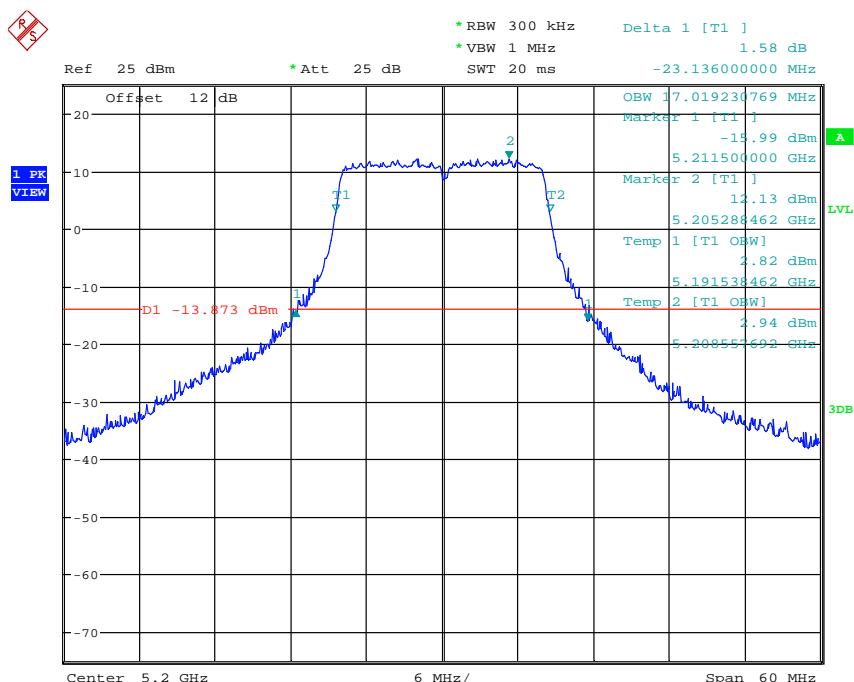
99% OBW & 26DB BANDWIDTH CDD ANTO\_VHT80\_CH42  
Date: 4.FEB.2015 10:32:35

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

## ANT1

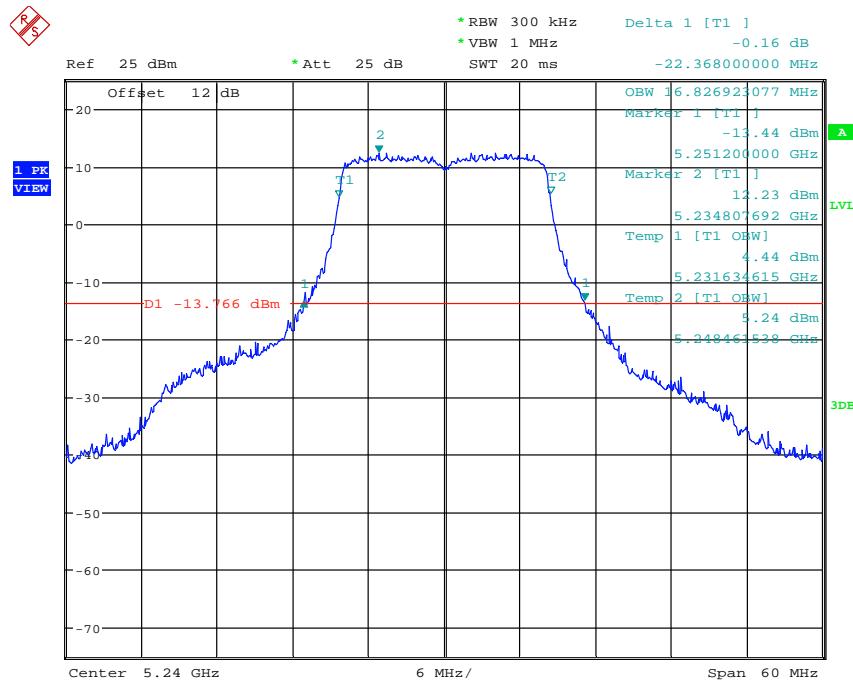


99% OBW & 26DB BANDWIDTH CDD ANT1\_a Mode\_CH36  
Date: 4.FEB.2015 15:38:30

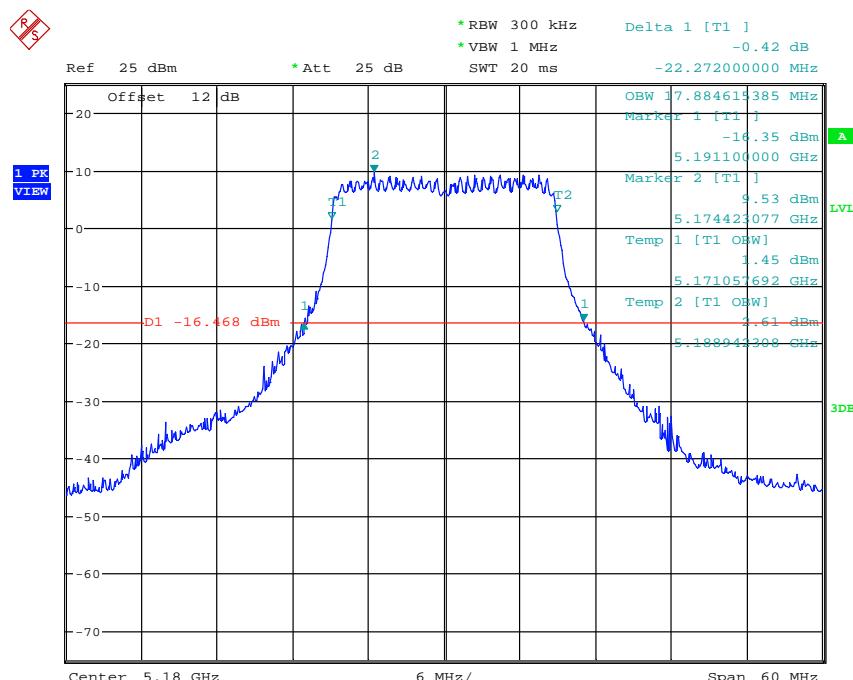


99% OBW & 26DB BANDWIDTH CDD ANT1\_a Mode\_CH40  
Date: 4.FEB.2015 15:43:05

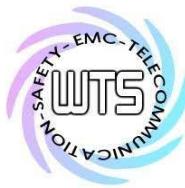
Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



99% OBW & 26DB BANDWIDTH CDD ANT1\_a Mode\_CH48  
Date: 4.FEB.2015 15:47:01

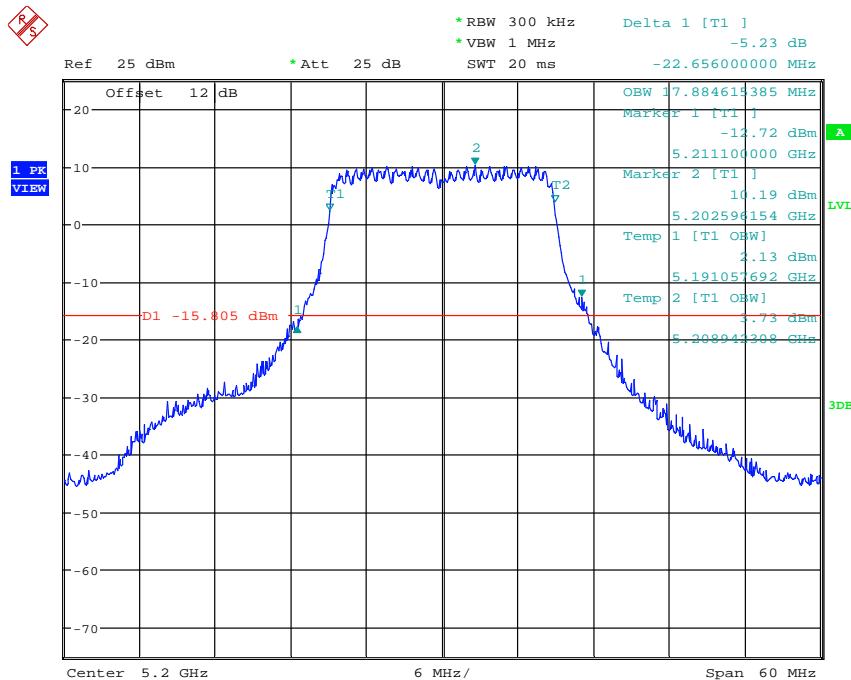


99% OBW & 26DB BANDWIDTH CDD ANT1\_VHT20\_CH36  
Date: 4.FEB.2015 16:00:02



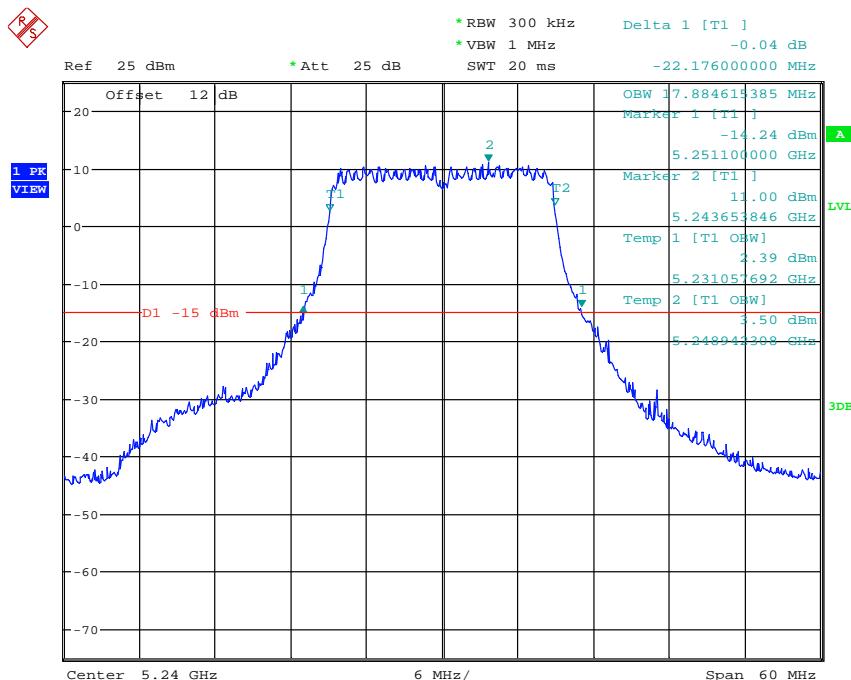
*Worldwide Testing Services(Taiwan) Co., Ltd.*

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



99% OBW & 26DB BANDWIDTH CDD ANT1\_VHT20\_CH40

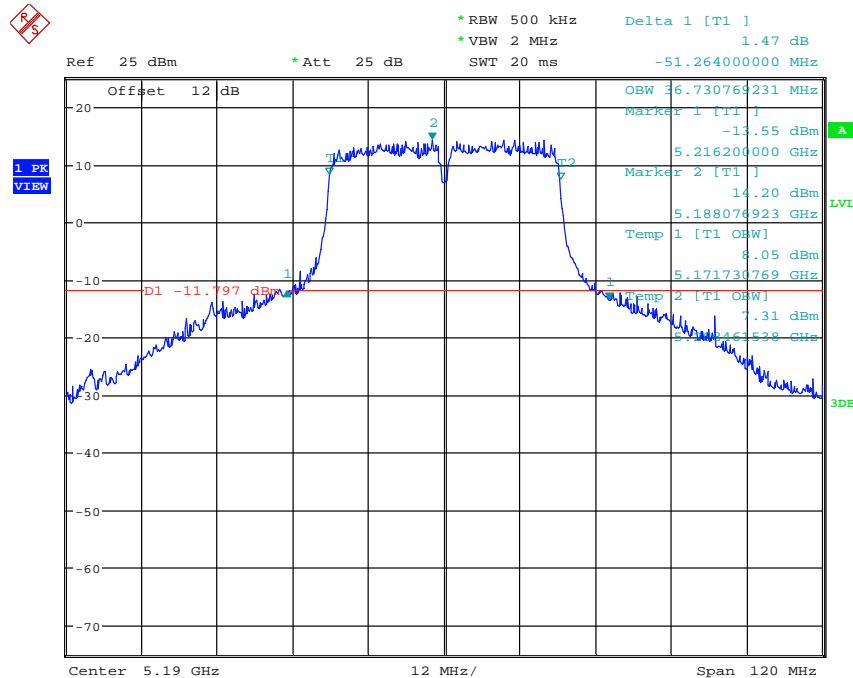
Date: 4.FEB.2015 15:55:55



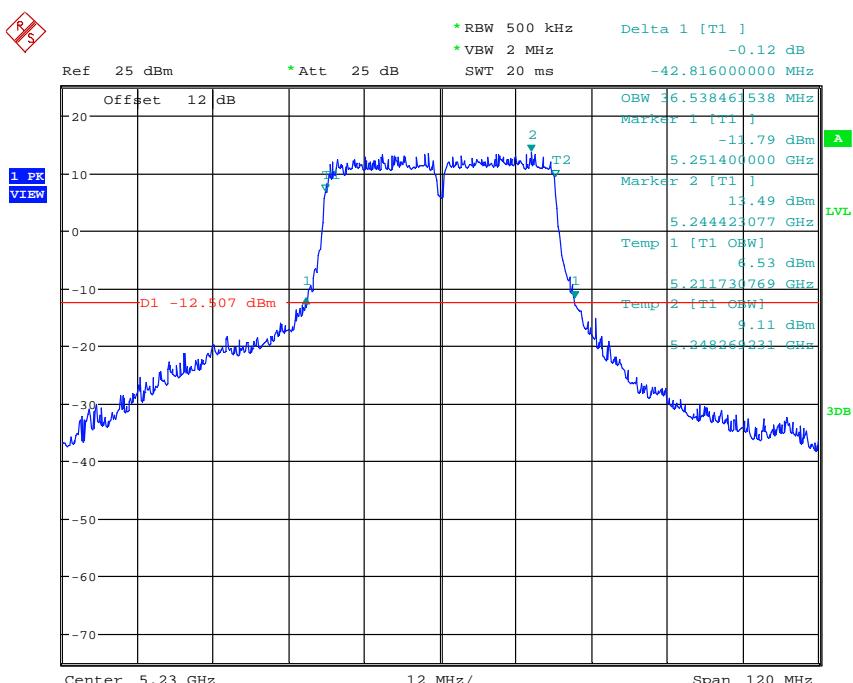
99% OBW & 26DB BANDWIDTH CDD ANT1\_VHT20\_CH48

Date: 4.FEB.2015 15:51:47

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

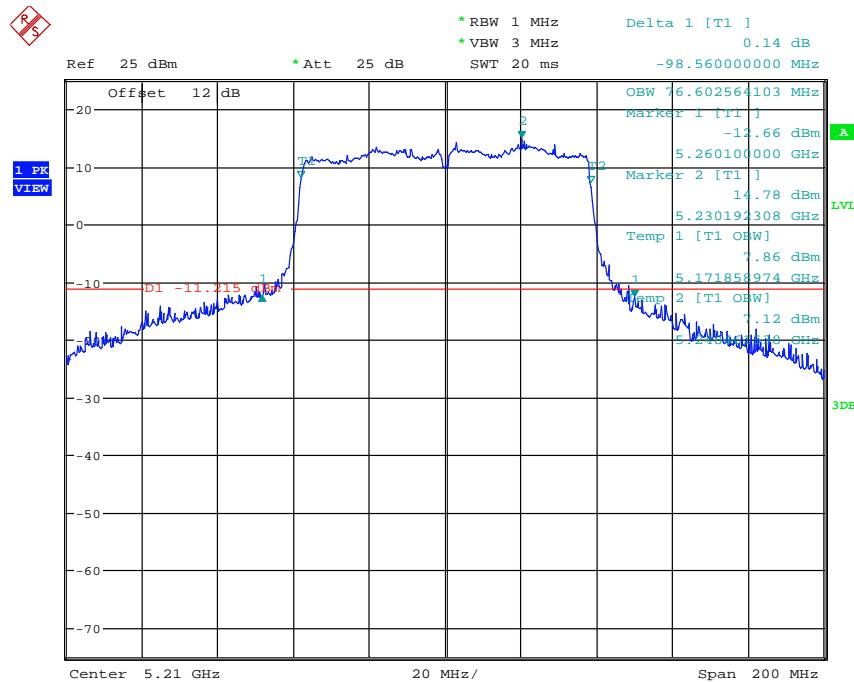


99% OBW & 26DB BANDWIDTH CDD ANT1\_VHT40\_CH38  
Date: 4.FEB.2015 16:28:16



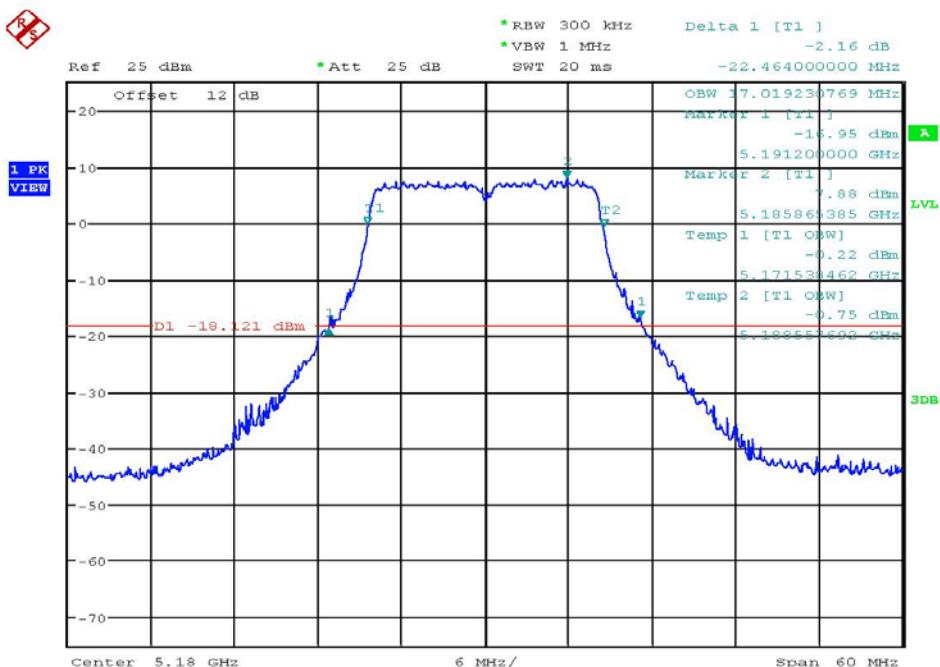
99% OBW & 26DB BANDWIDTH CDD ANT1\_VHT40\_CH46  
Date: 4.FEB.2015 16:14:48

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



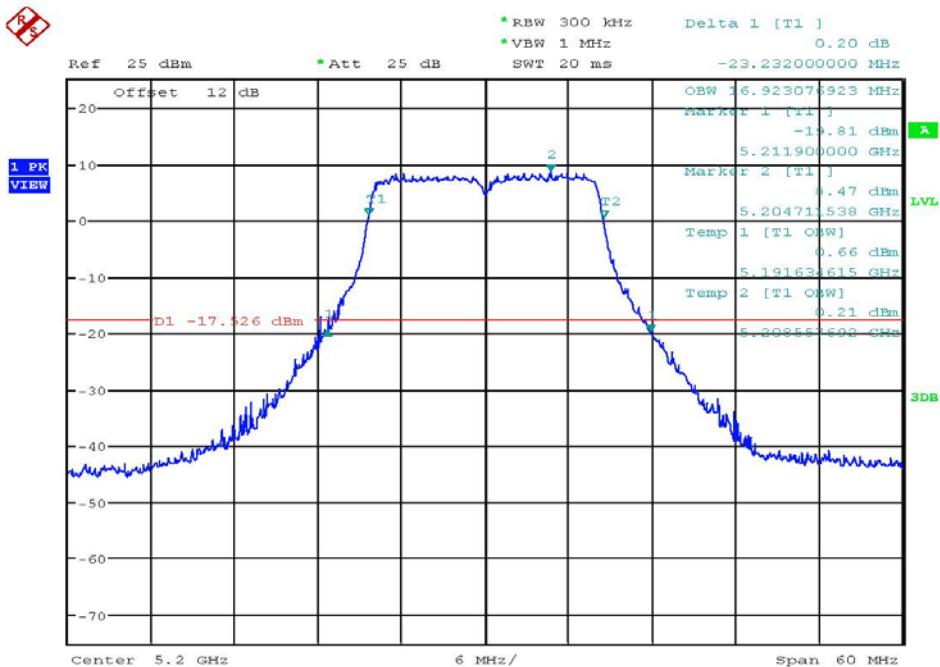
99% OBW & 26DB BANDWIDTH CDD ANT1\_VHT80\_CH42  
Date: 4.FEB.2015 16:34:08

## ANT2

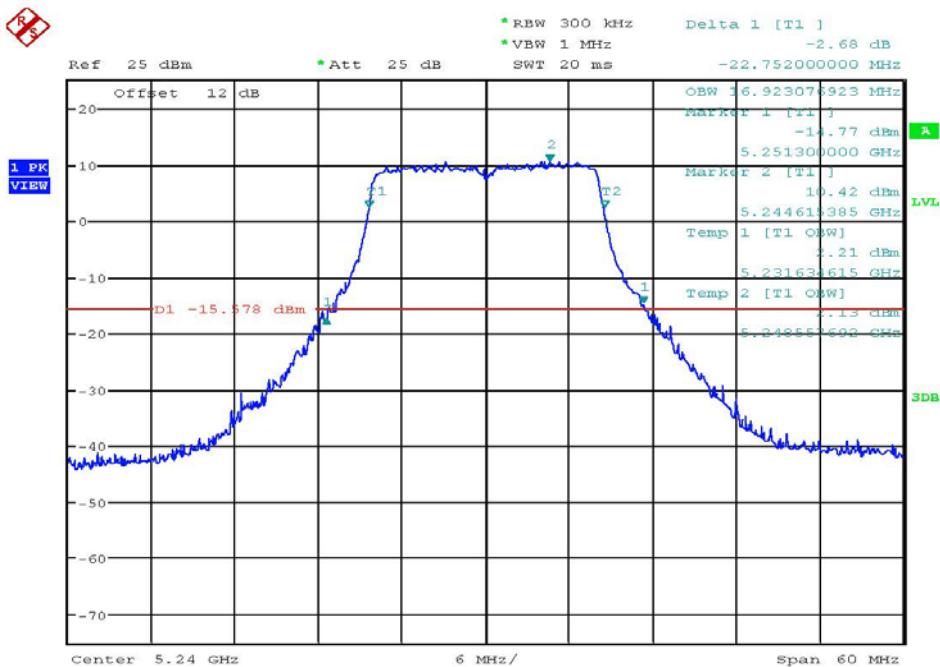


99% OBW & 26DB BANDWIDTH CDD ANT2\_a Mode\_CH36  
Date: 4.FEB.2015 19:01:37

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



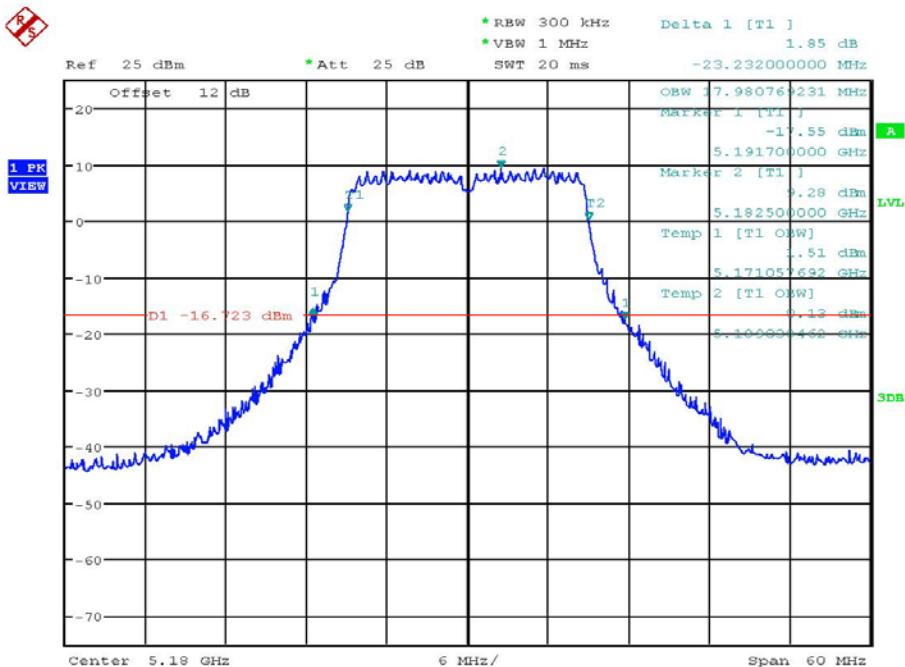
99% OBW & 26DB BANDWIDTH CDD ANT2\_a Mode\_CH40  
Date: 4.FEB.2015 18:57:51



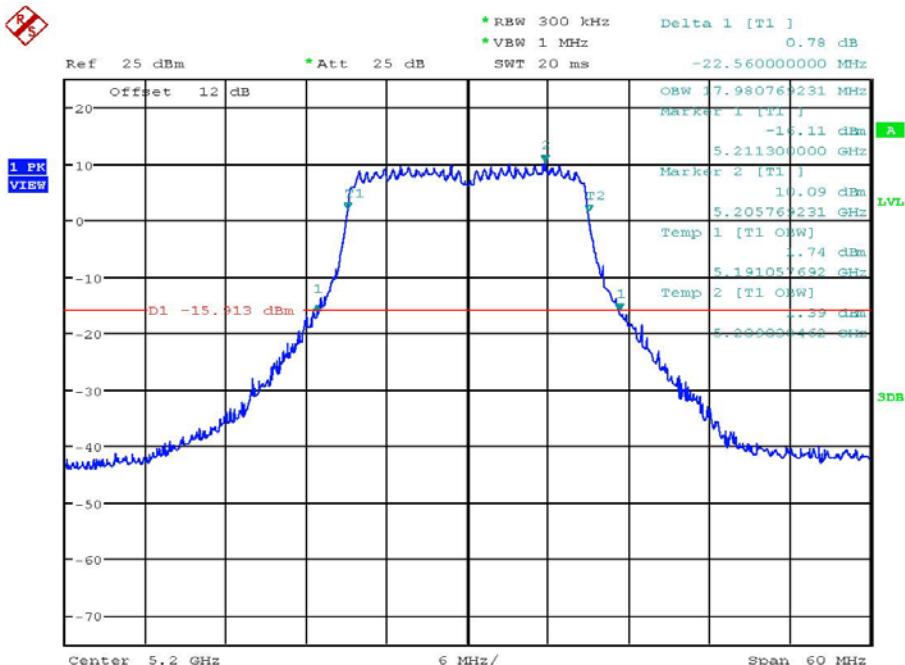
99% OBW & 26DB BANDWIDTH CDD ANT2\_a Mode\_CH48  
Date: 4.FEB.2015 18:53:16

# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

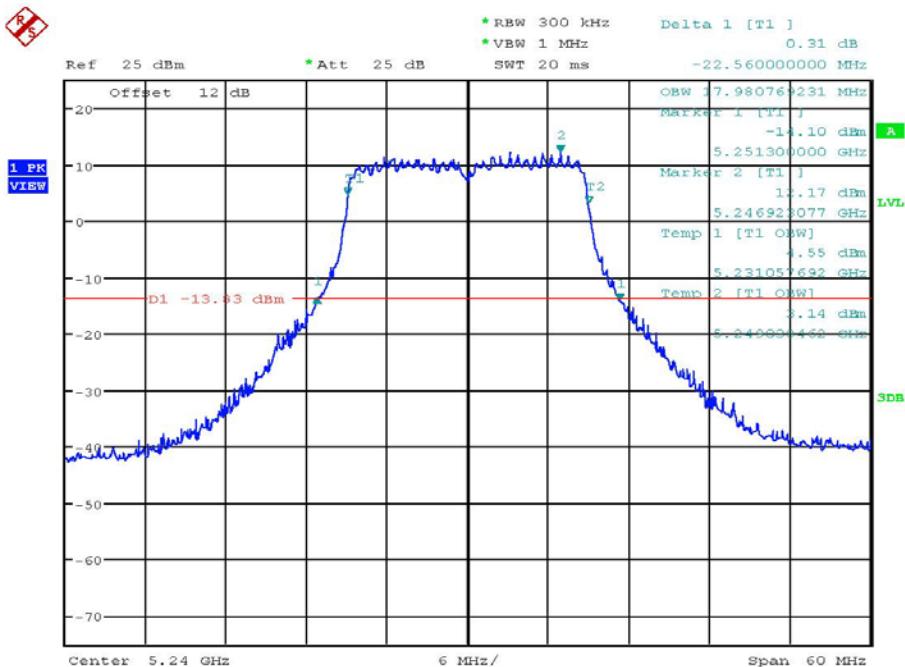


99% OBW & 26dB BANDWIDTH CDD ANT2\_VHT20\_CH36  
Date: 4.FEB.2015 18:15:53

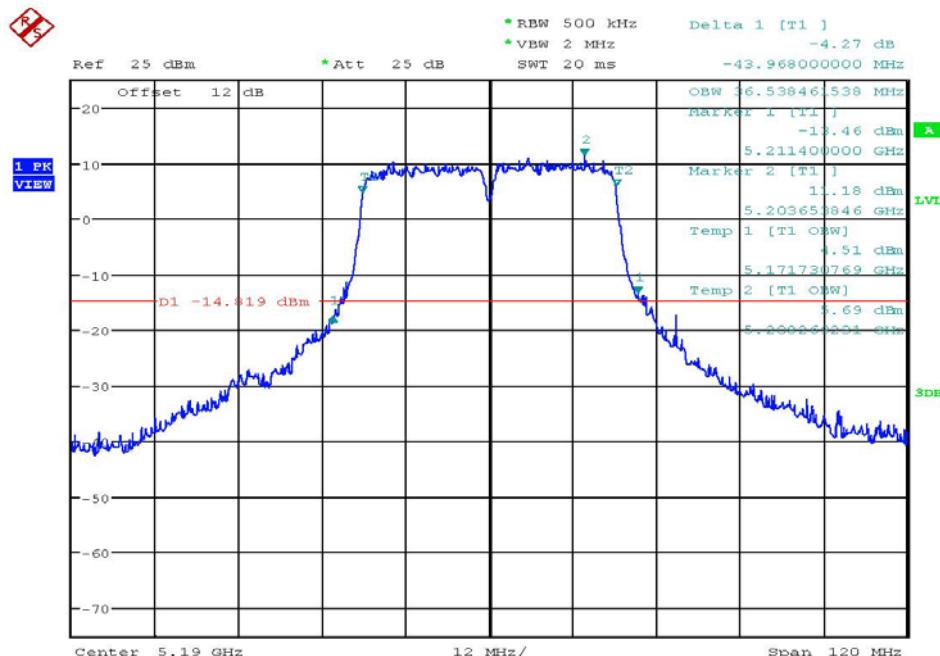


99% OBW & 26dB BANDWIDTH CDD ANT2\_VHT20\_CH40  
Date: 4.FEB.2015 18:21:12

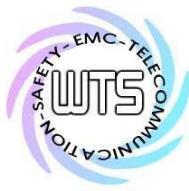
Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



99% OBW & 26DB BANDWIDTH CDD ANT2\_VHT20\_CH48  
Date: 4.FEB.2015 18:42:00

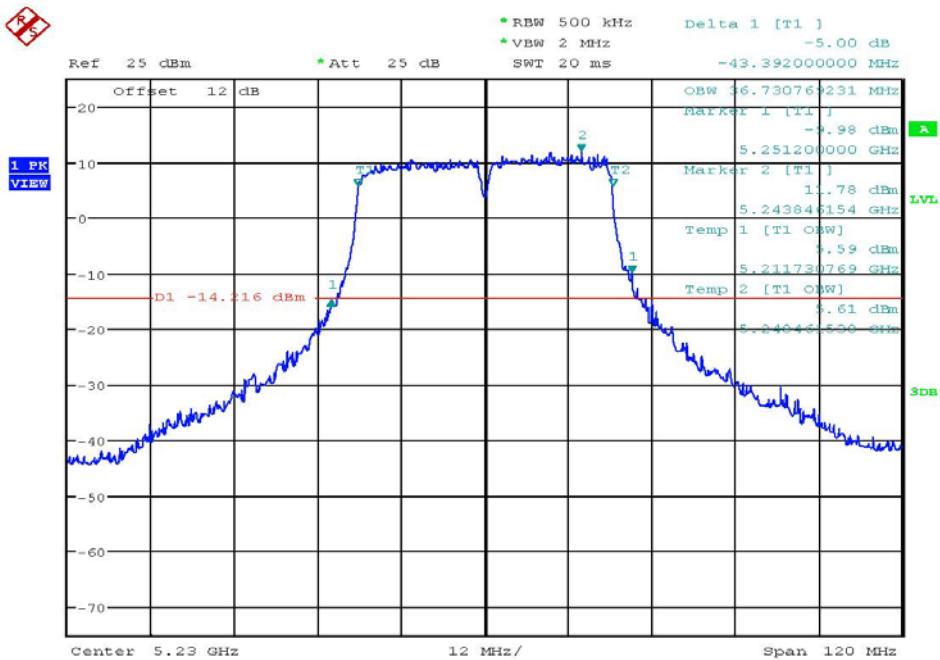


99% OBW & 26DB BANDWIDTH CDD ANT2\_VHT40\_CH38  
Date: 4.FEB.2015 16:53:34

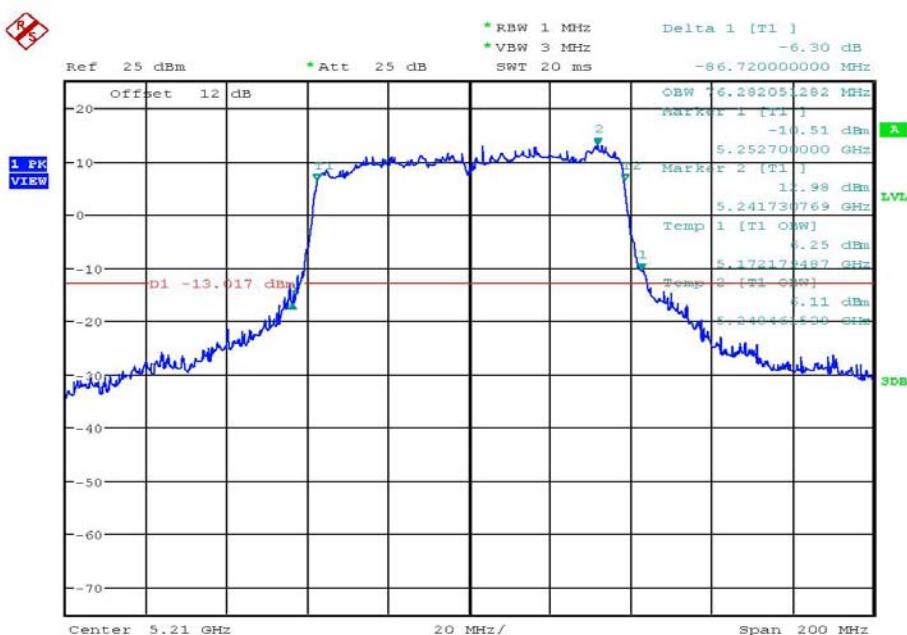


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



99% OBW & 26dB BANDWIDTH CDD ANT0\_VHT40\_CH46  
Date: 4.FEB.2015 16:48:54



99% OBW & 26dB BANDWIDTH CDD ANT2\_VHT80\_CH42  
Date: 4.FEB.2015 16:43:24

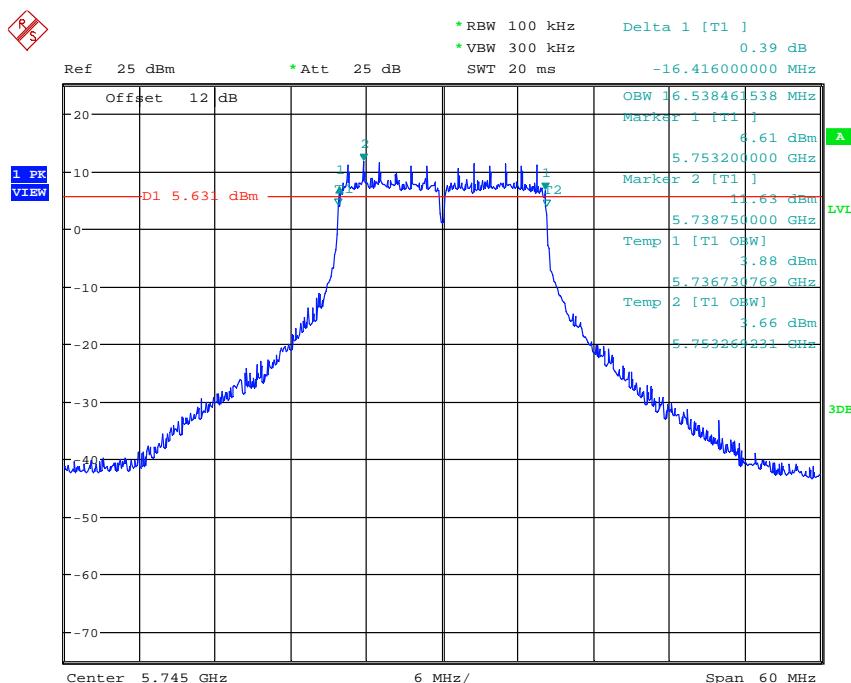
Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

### 3.3 6dB emission bandwidth, 99% Occupied Bandwidth, FCC 15.407 (a)

According to §15.407(a). No Limit required.

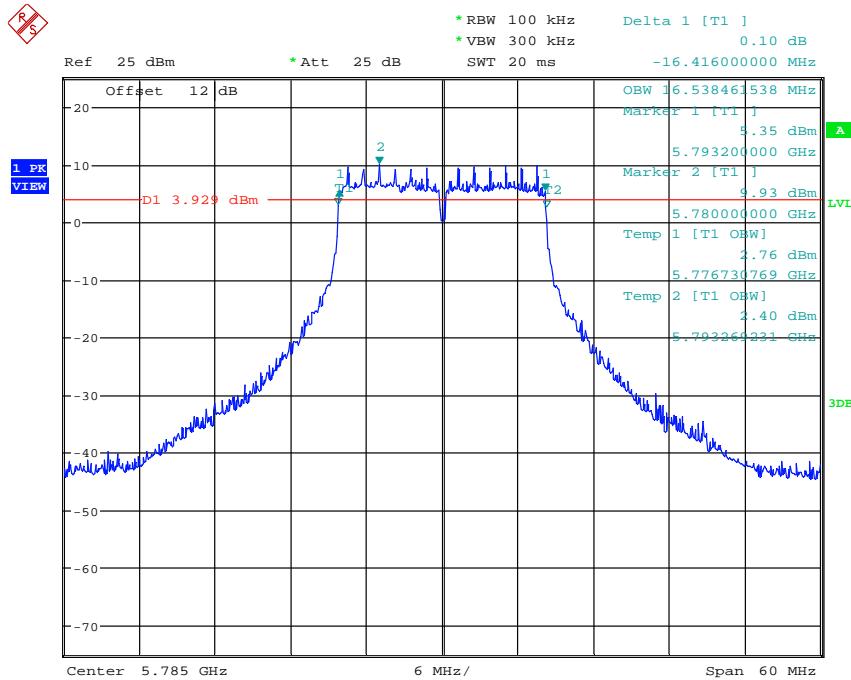
Result:

ANT0



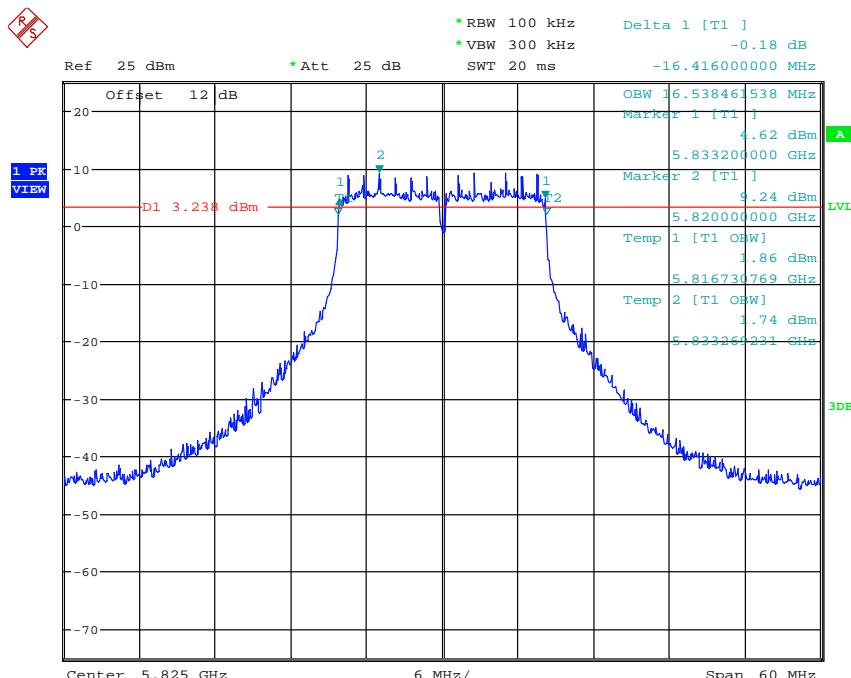
99% OBW & 6DB BANDWIDTH CDD ANT0\_a Mode\_CH149  
Date: 4.FEB.2015 10:52:17

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



99% OBW & 6DB BANDWIDTH CDD ANTO\_a Mode\_CH157

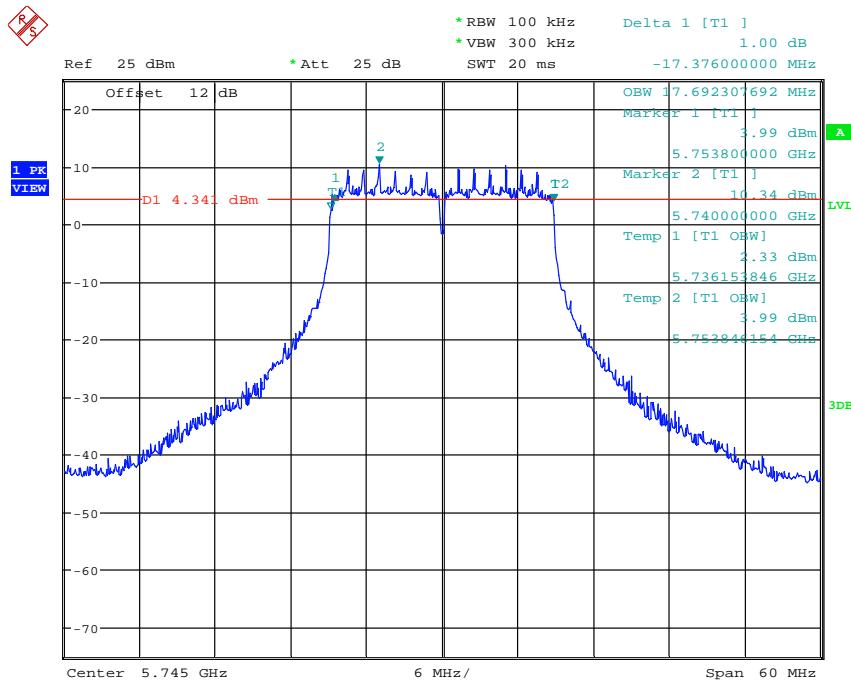
Date: 4.FEB.2015 10:56:22



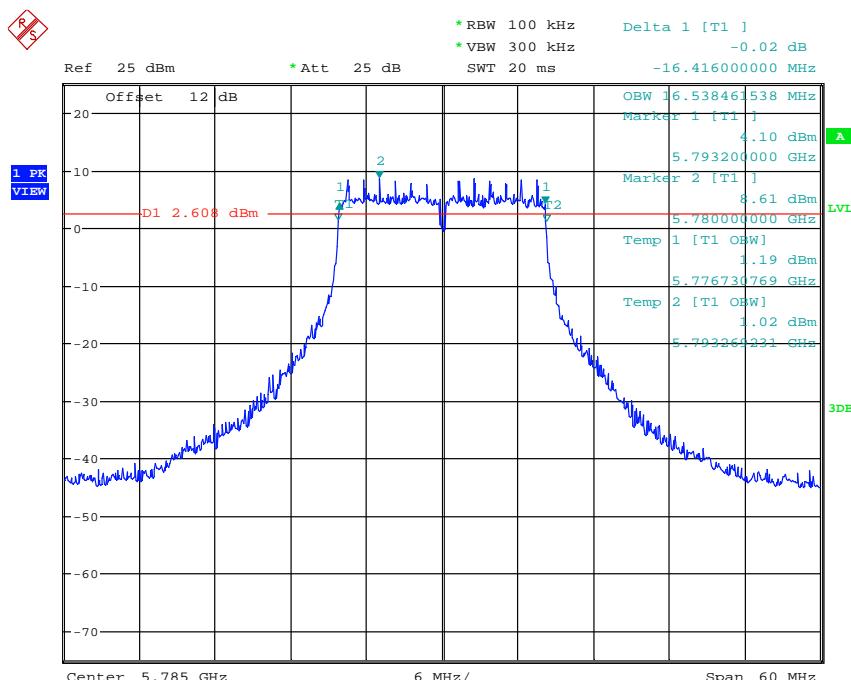
99% OBW & 6DB BANDWIDTH CDD ANTO\_a Mode\_CH165

Date: 4.FEB.2015 13:00:12

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

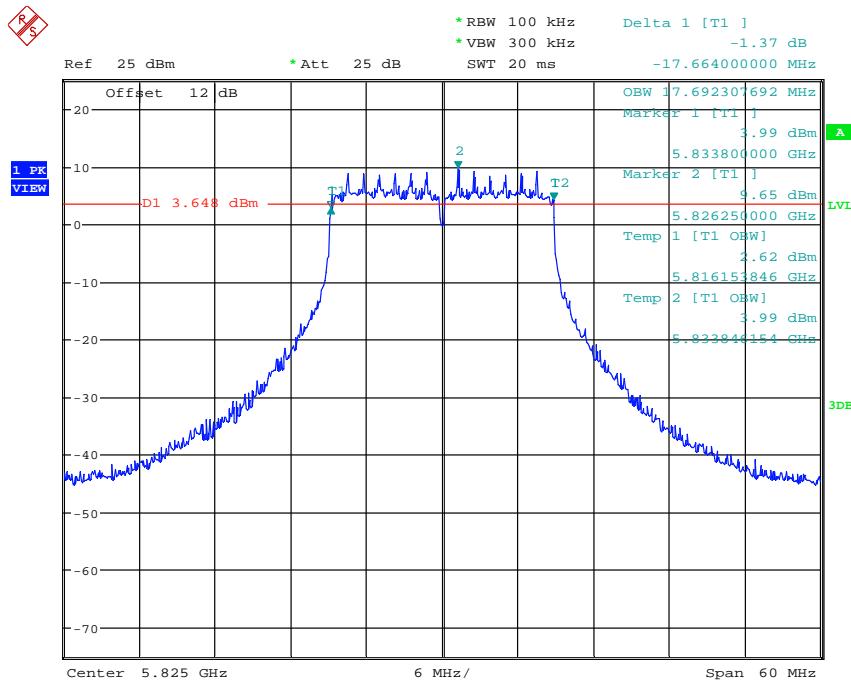


99% OBW & 6DB BANDWIDTH CDD ANTO\_VHT20\_CH149  
Date: 4.FEB.2015 13:13:58

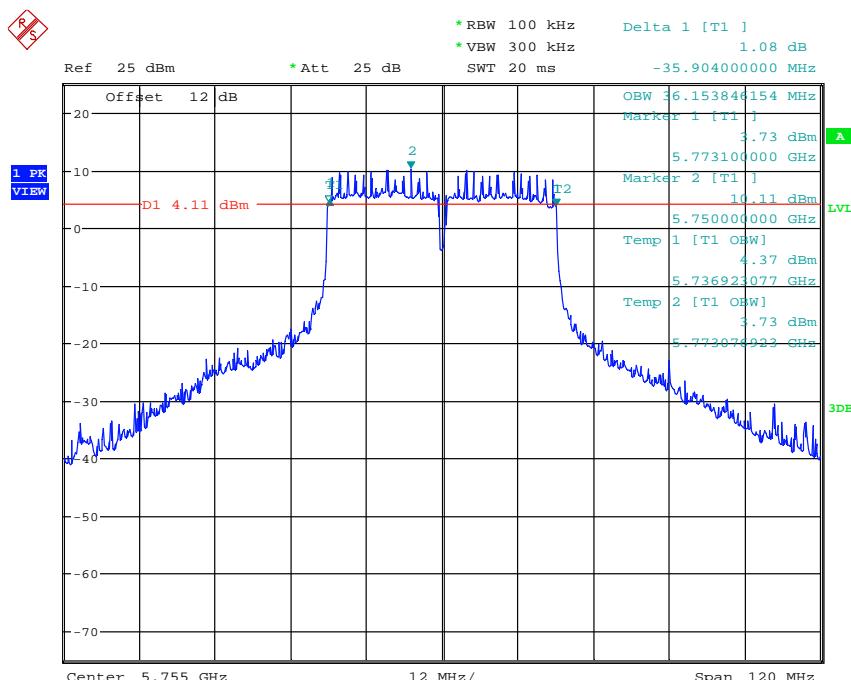


99% OBW & 6DB BANDWIDTH CDD ANTO\_VHT20\_CH157  
Date: 4.FEB.2015 13:09:11

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

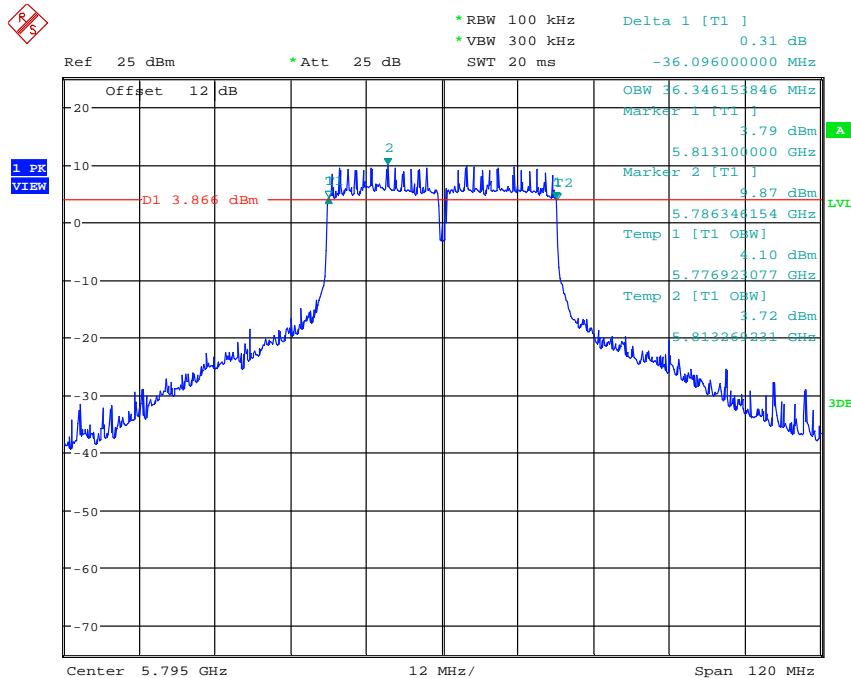


99% OBW & 6DB BANDWIDTH CDD ANTO\_VHT20\_CH165  
Date: 4.FEB.2015 13:04:52

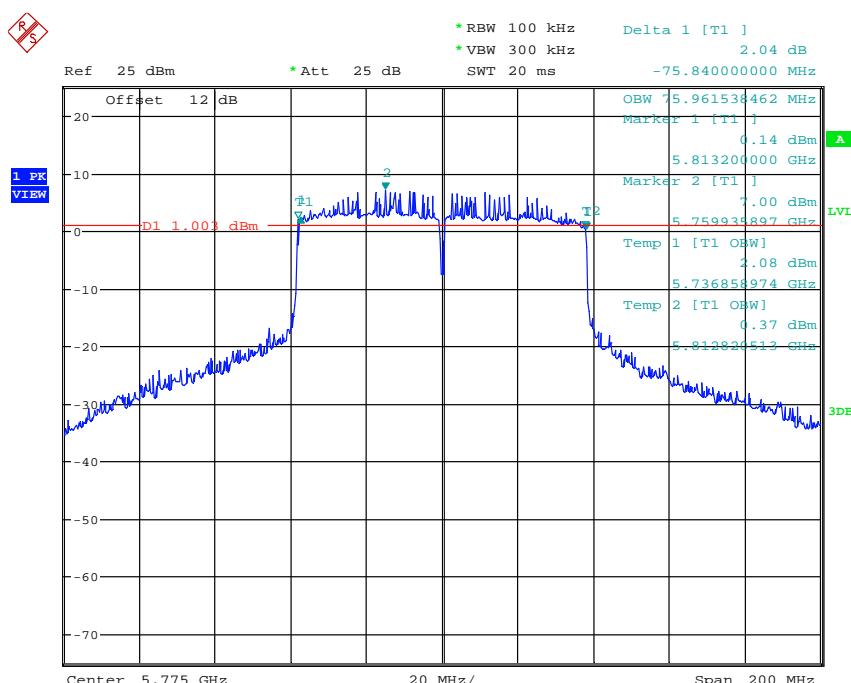


99% OBW & 6DB BANDWIDTH CDD ANTO\_VHT40\_CH151  
Date: 4.FEB.2015 13:35:41

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



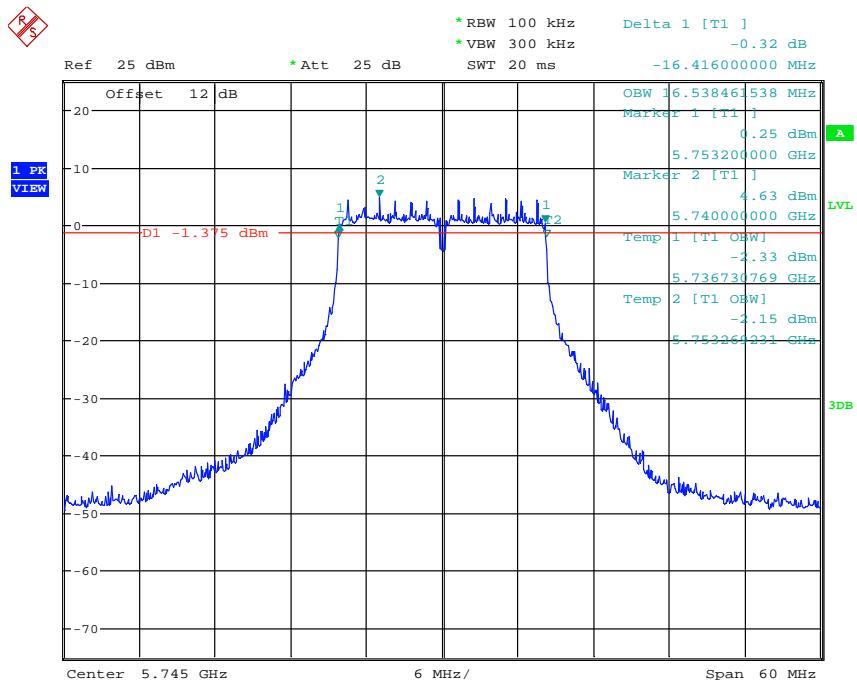
99% OBW & 6DB BANDWIDTH CDD ANTO\_VHT40\_CH159  
Date: 4.FEB.2015 13:39:49



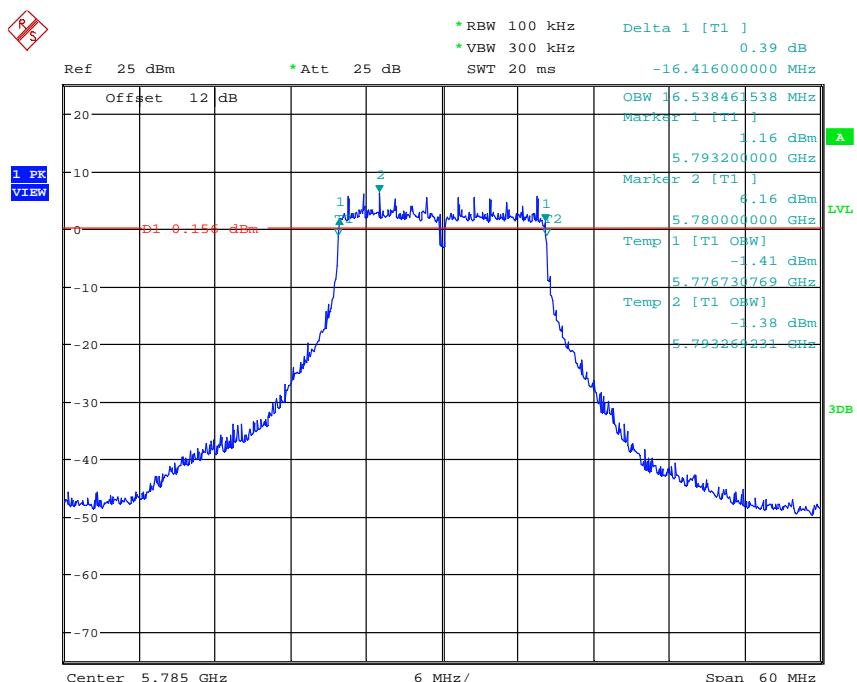
99% OBW & 6DB BANDWIDTH CDD ANTO\_VHT80\_CH155  
Date: 4.FEB.2015 13:45:07

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

## ANT1

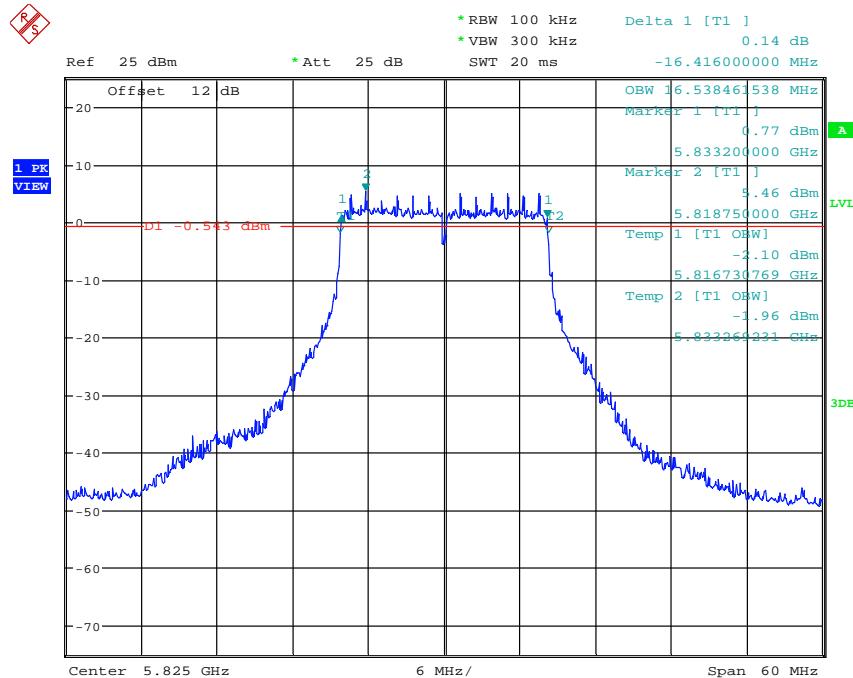


99% OBW & 6DB BANDWIDTH CDD ANT1\_a Mode\_CH149  
Date: 4.FEB.2015 15:23:27

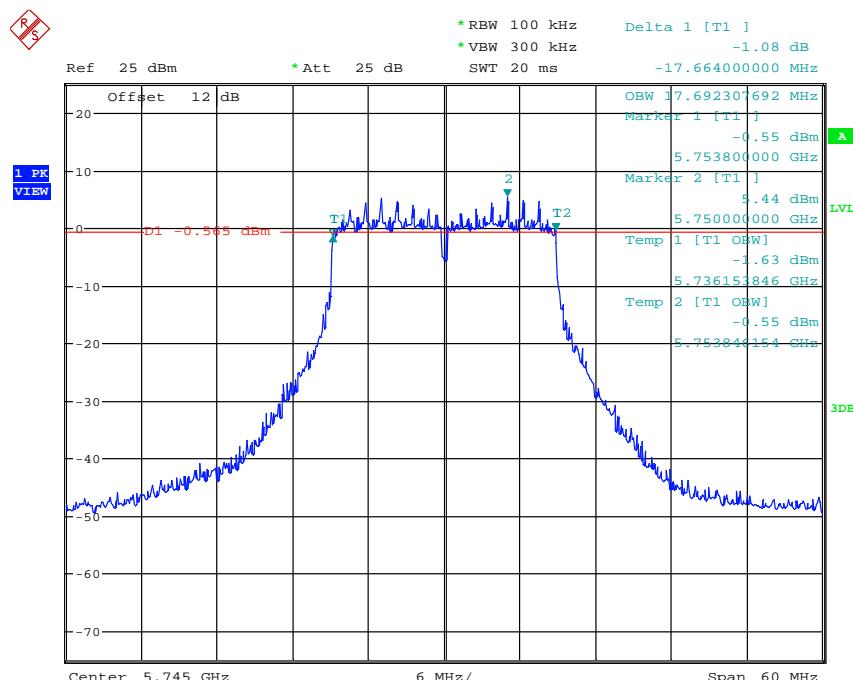


99% OBW & 6DB BANDWIDTH CDD ANT1\_a Mode\_CH157  
Date: 4.FEB.2015 15:27:46

Registration number: W6M21411-14659-C-54  
 FCC ID: ZTT-REC33A

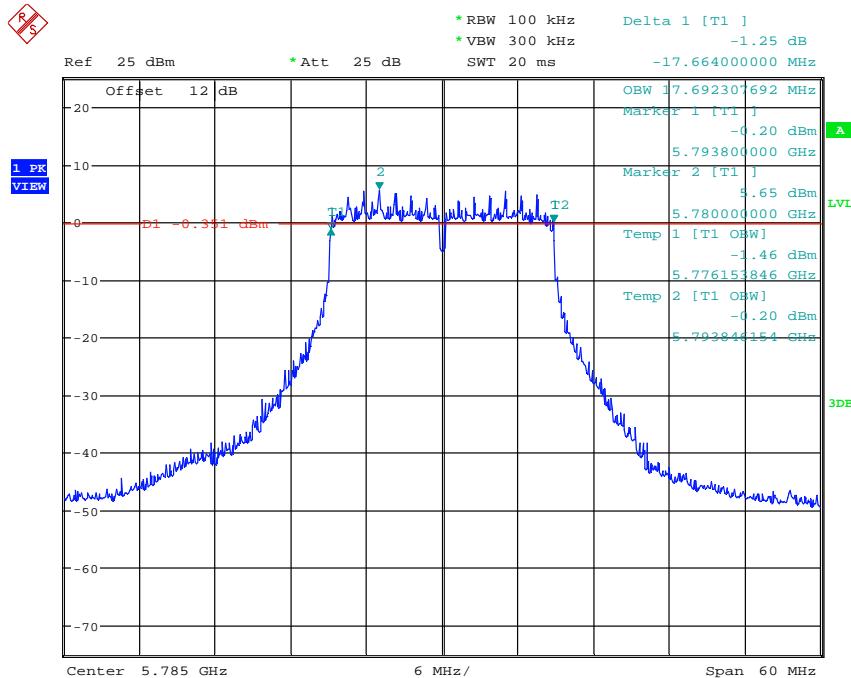


99% OBW & 6DB BANDWIDTH CDD ANT1\_a Mode\_CH165  
 Date: 4.FEB.2015 15:30:55

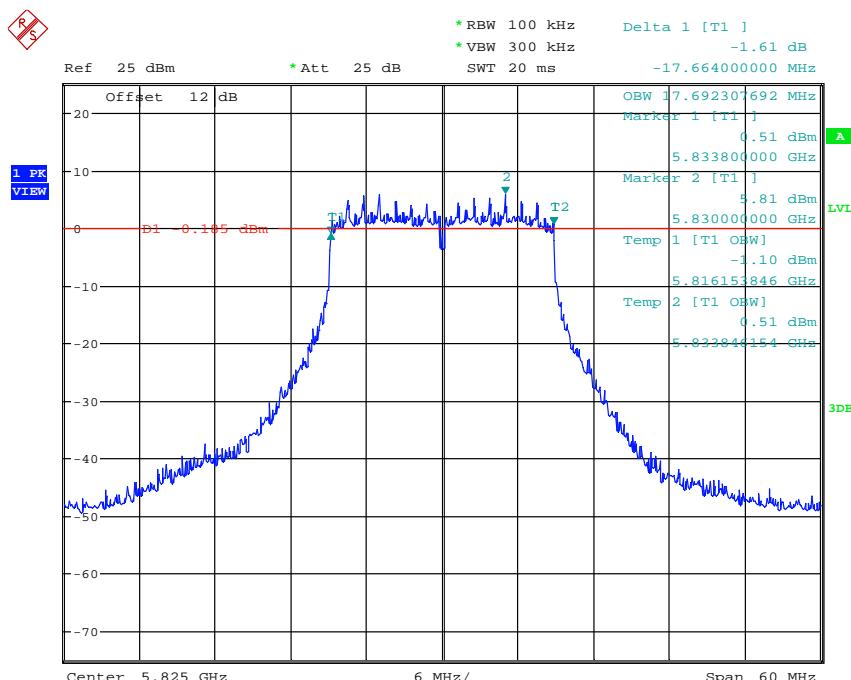


99% OBW & 6DB BANDWIDTH CDD ANT1\_VHT20\_CH149  
 Date: 4.FEB.2015 20:02:50

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

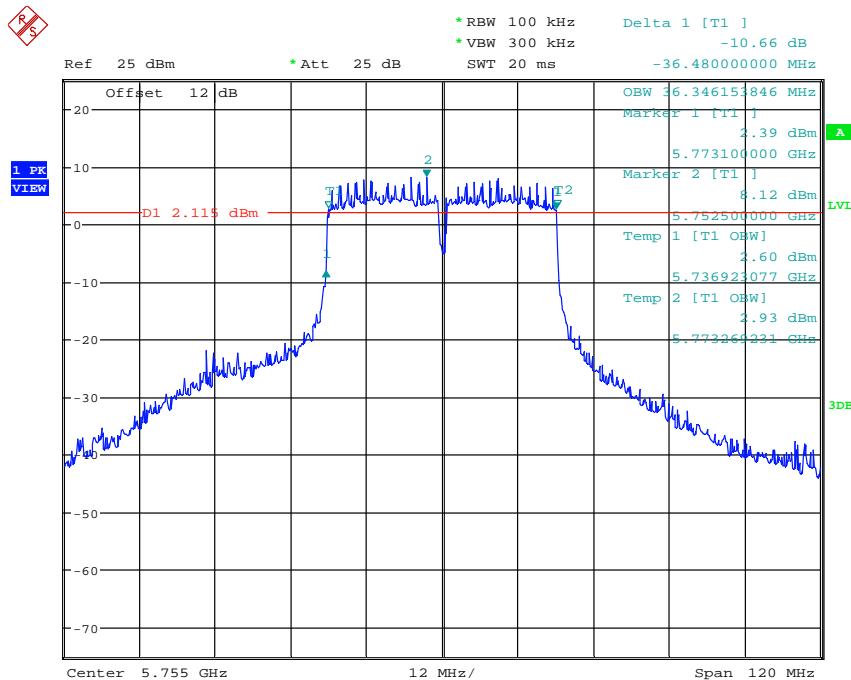


99% OBW & 6DB BANDWIDTH CDD ANT1\_VHT20\_CH157  
Date: 4.FEB.2015 20:06:34

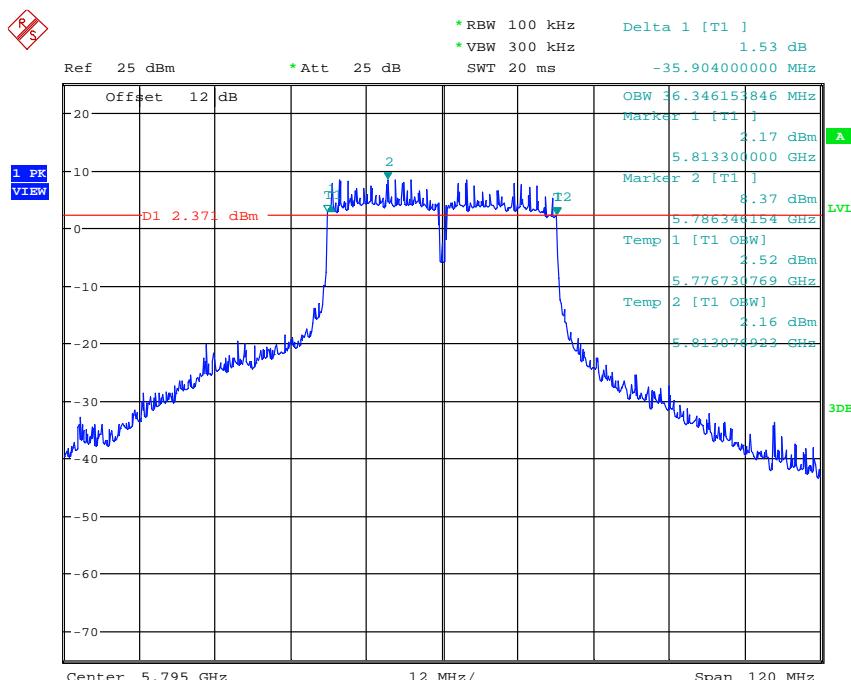


99% OBW & 6DB BANDWIDTH CDD ANT1\_VHT20\_CH165  
Date: 4.FEB.2015 20:16:36

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

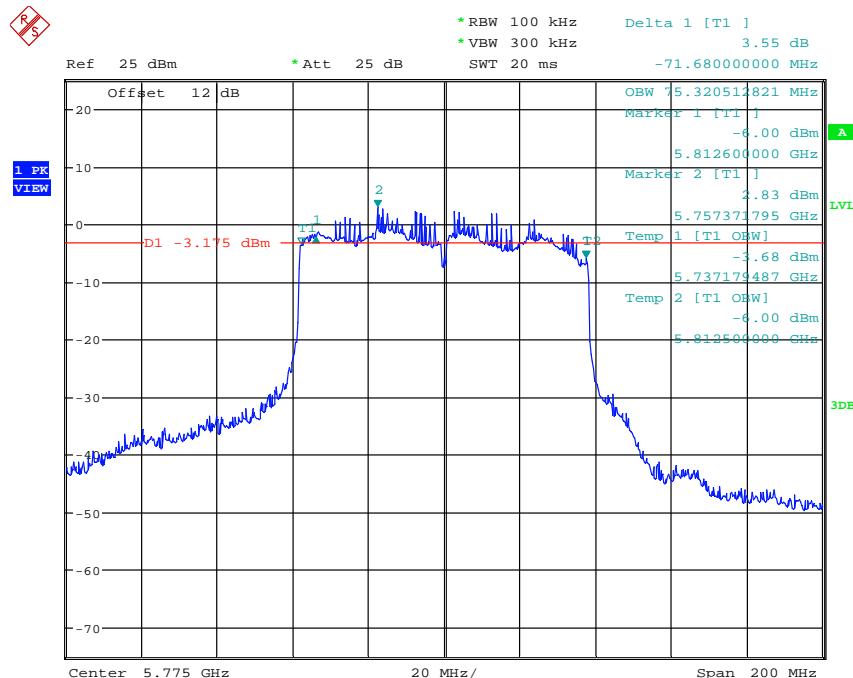


99% OBW & 6DB BANDWIDTH CDD ANT1\_VHT40\_CH151  
Date: 4.FEB.2015 14:41:25

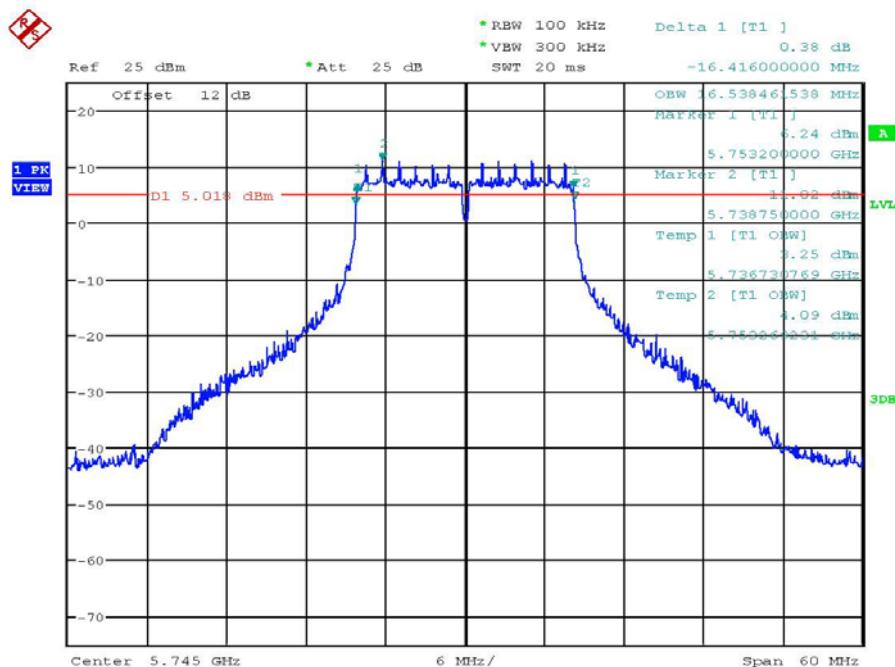


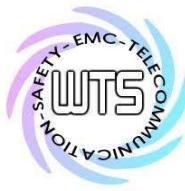
99% OBW & 6DB BANDWIDTH CDD ANT1\_VHT40\_CH159  
Date: 4.FEB.2015 14:37:57

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



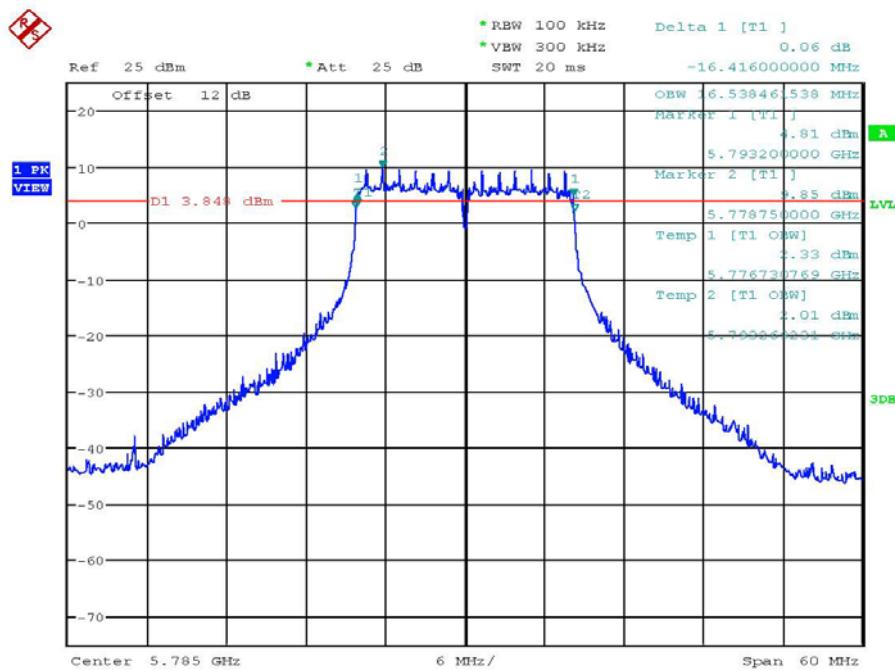
## ANT2



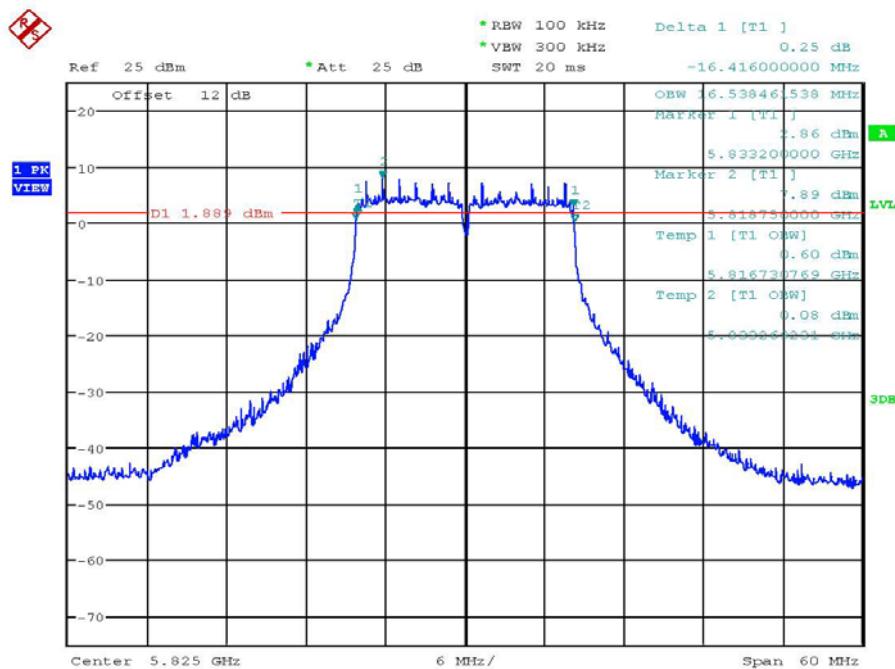


# Worldwide Testing Services(Taiwan) Co., Ltd.

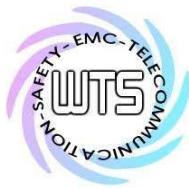
Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



99% OBW & 6DB BANDWIDTH CDD ANT2\_a Mode\_CH157  
Date: 4.FEB.2015 19:13:30

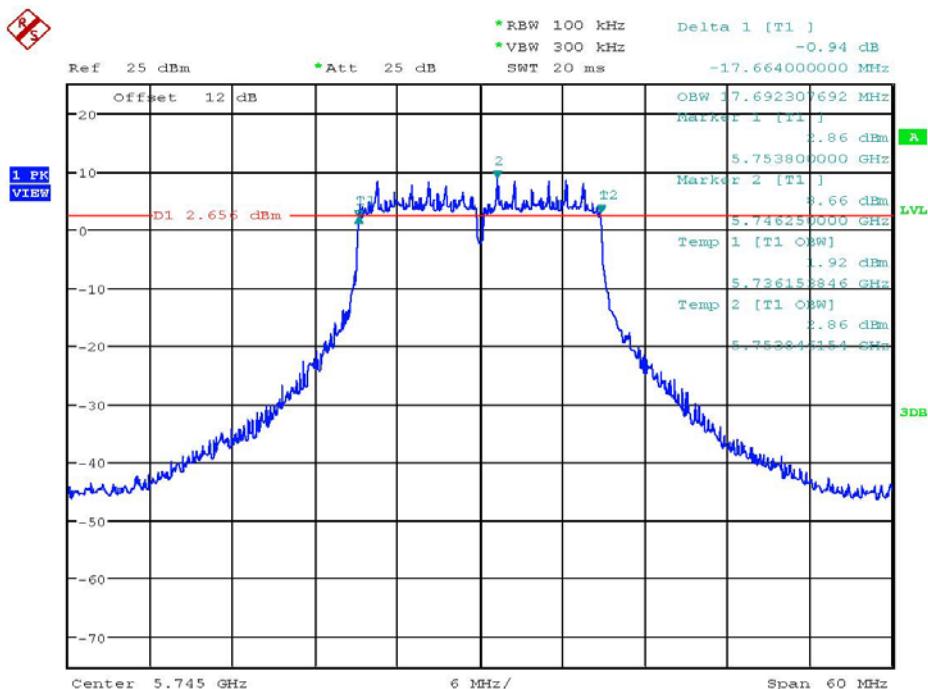


99% OBW & 6DB BANDWIDTH CDD ANT2\_a Mode\_CH165  
Date: 4.FEB.2015 19:16:32

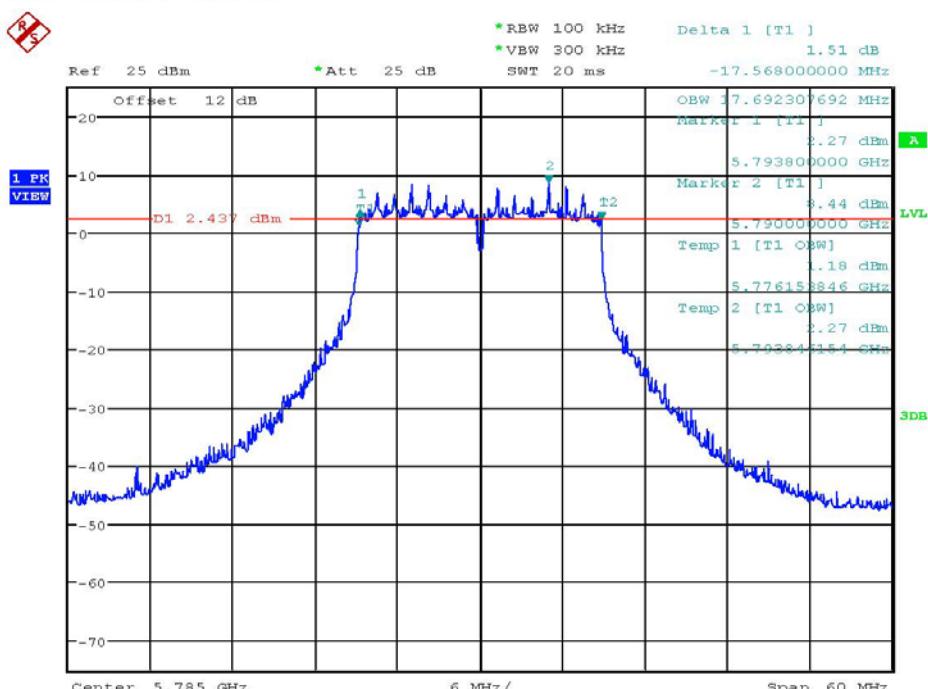


# Worldwide Testing Services(Taiwan) Co., Ltd.

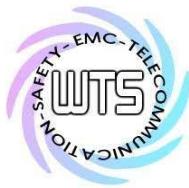
Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



99% OBW & 6DB BANDWIDTH CDD ANT2\_VHT20\_CH149  
Date: 4.FEB.2015 19:28:33

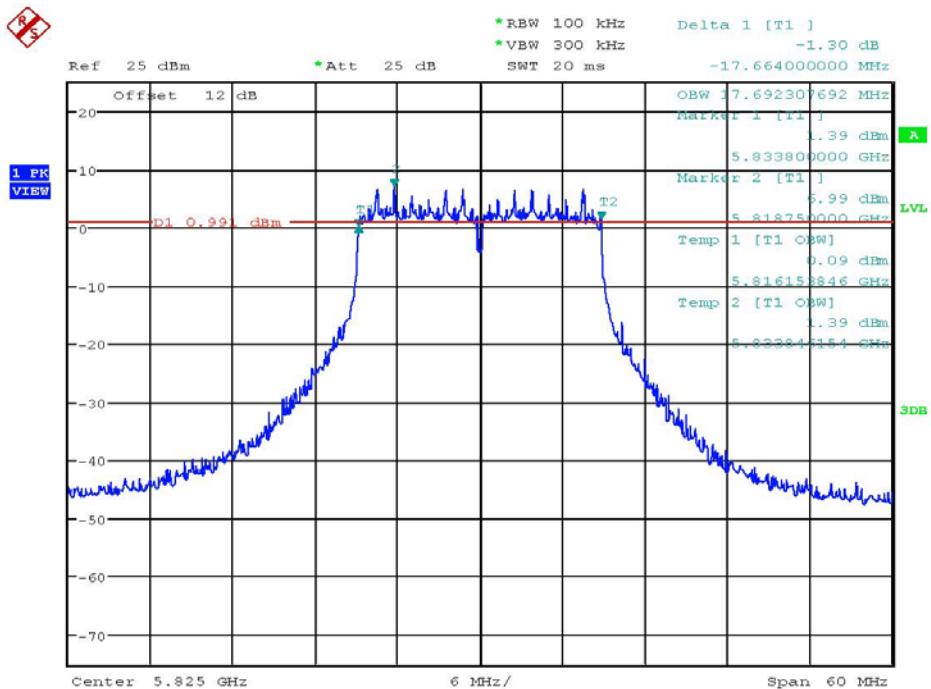


99% OBW & 6DB BANDWIDTH CDD ANT2\_VHT20\_CH157  
Date: 4.FEB.2015 19:25:24

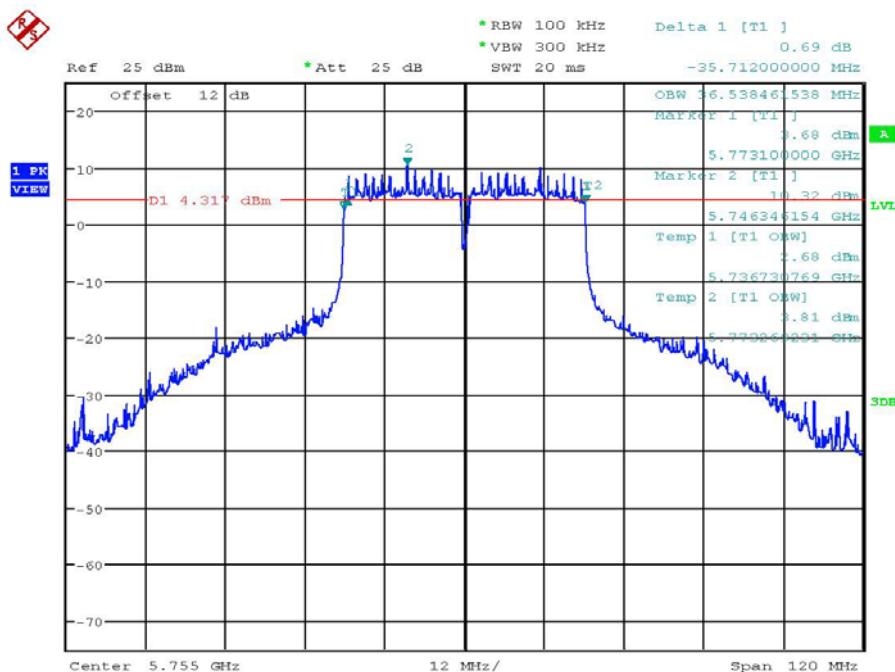


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



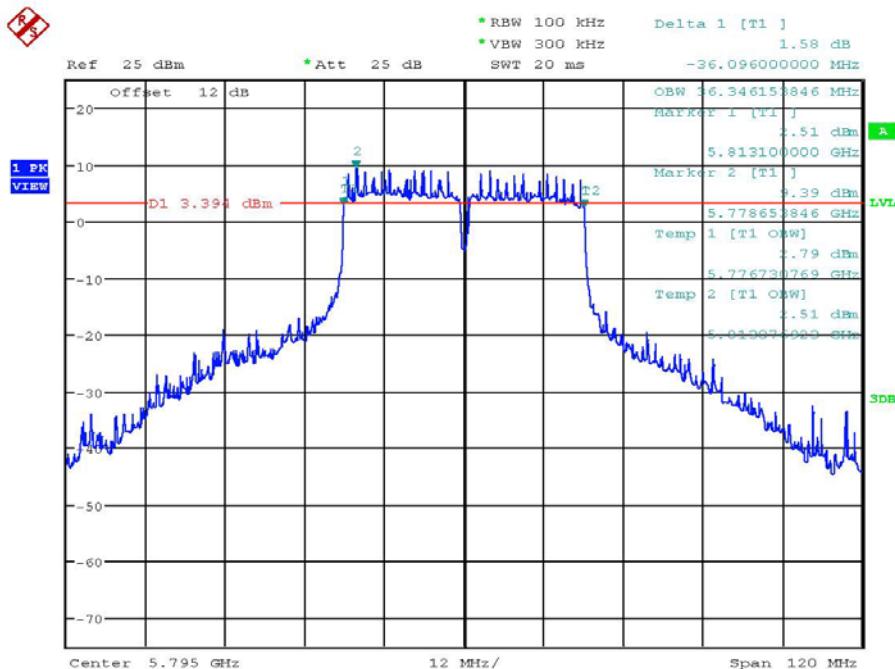
99% OBW & 6DB BANDWIDTH CDD ANT2\_VHT20\_CH165  
Date: 4.FEB.2015 19:20:16



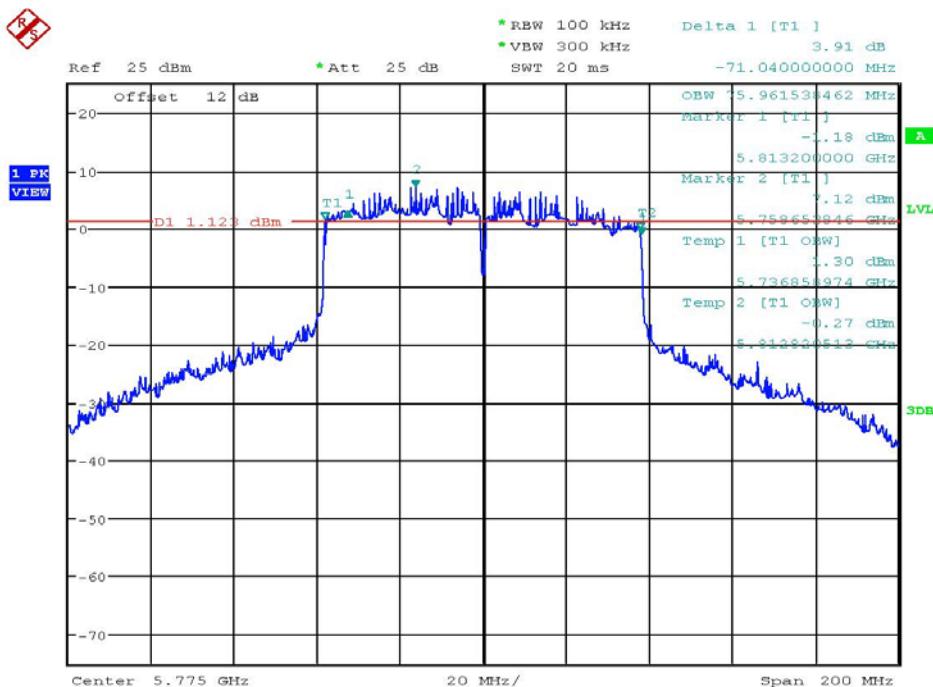
99% OBW & 6DB BANDWIDTH CDD ANT2\_VHT40\_CH151  
Date: 4.FEB.2015 19:32:59

# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



99% OBW & 6dB BANDWIDTH CDD ANT2\_VHT40\_CH159  
Date: 4.FEB.2015 19:38:51



99% OBW & 6dB BANDWIDTH CDD ANT2\_VHT80\_CH155  
Date: 4.FEB.2015 19:44:19

Test equipment used: ETSTW-RE 055, ETSTW-RE 050

Registration number: W6M21411-14659-C-54  
 FCC ID: ZTT-REC33A

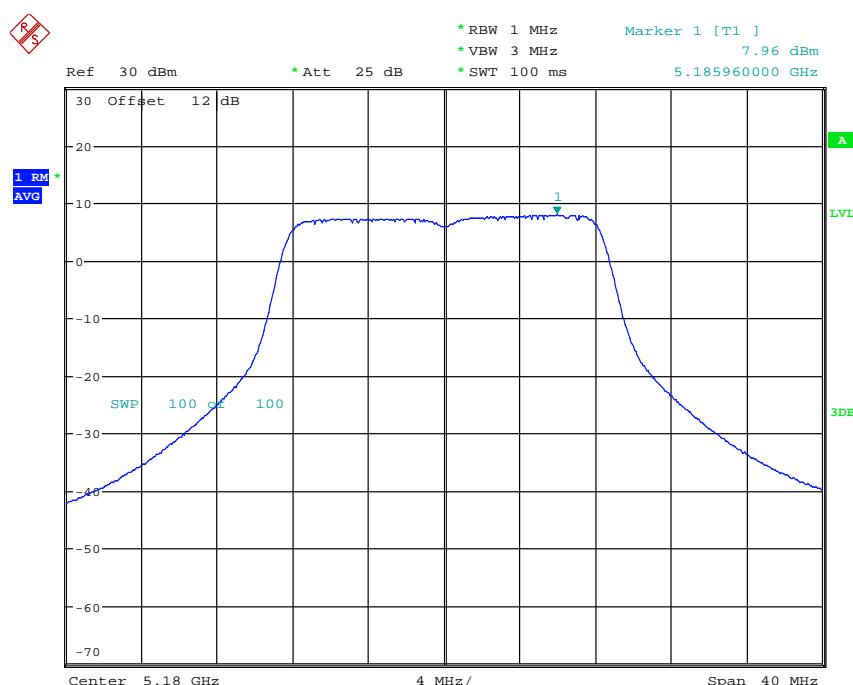
### 3.4 Peak Power Spectral Density, FCC 15.407 (a)

According to §15.407(a)

1. For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band.
2. For the band 5.25-5.35 GHz and 5.47-5.725GHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band.
3. For the band 5.725-5.825 GHz, the peak power spectral density shall not exceed 17 dBm in any 1-MHz band.

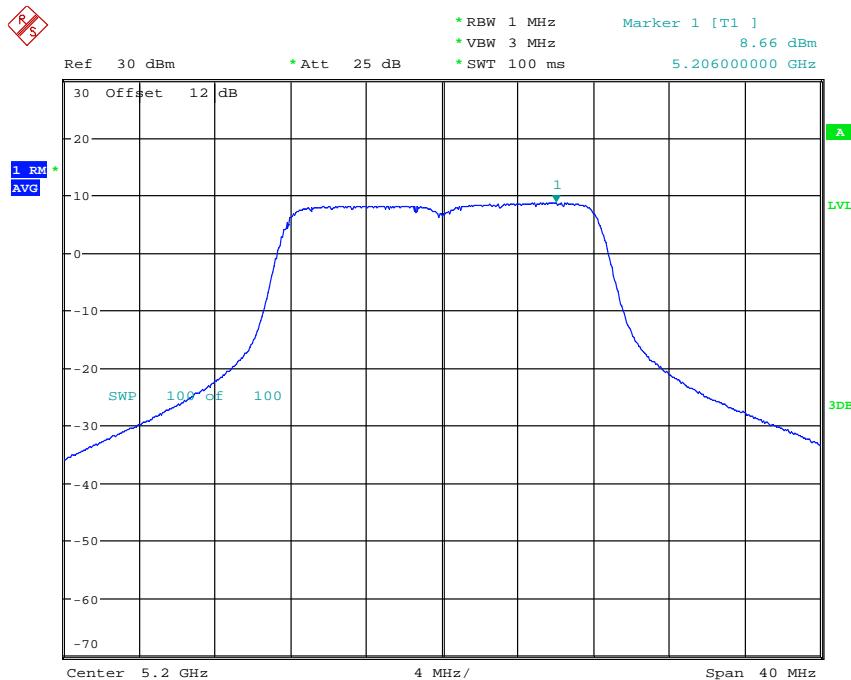
Band 1

ANT0



POWER DENSITY BF ANT0\_aCH36  
 Date: 4.FEB.2015 09:24:27

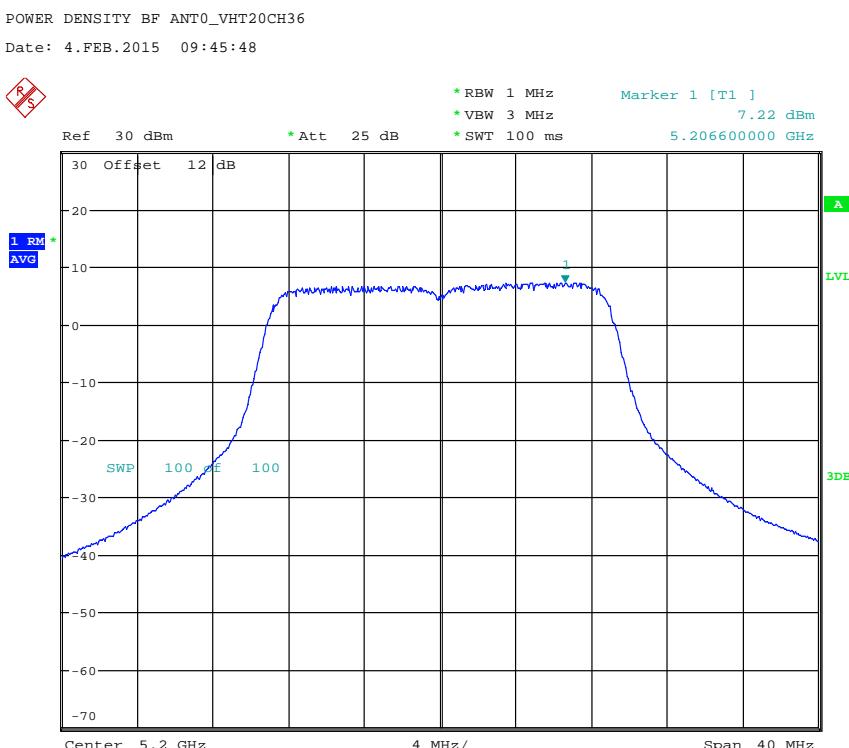
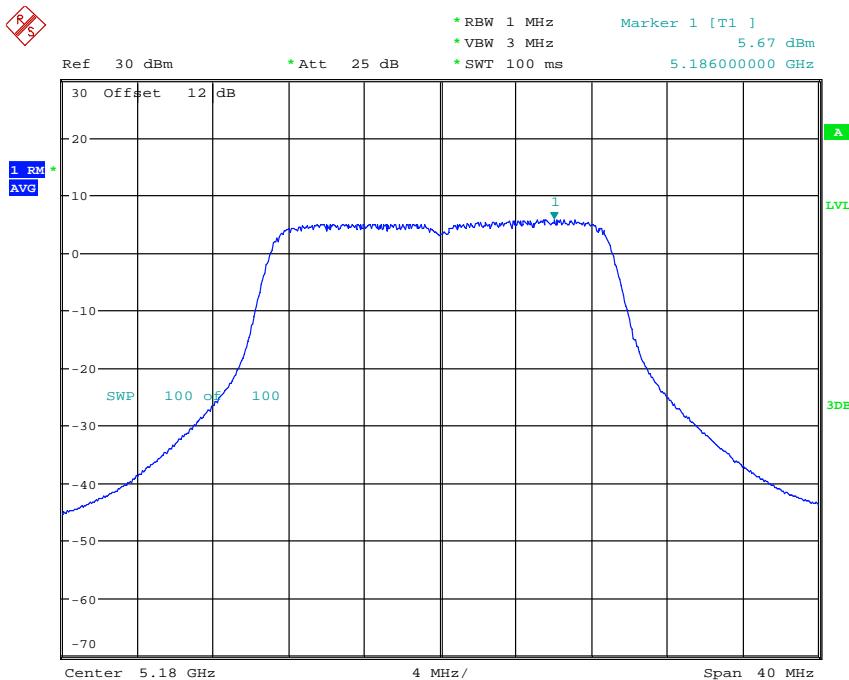
Registration number: W6M21411-14659-C-54  
 FCC ID: ZTT-REC33A



POWER DENSITY BF ANTO\_aCH48

Date: 4.FEB.2015 09:32:30

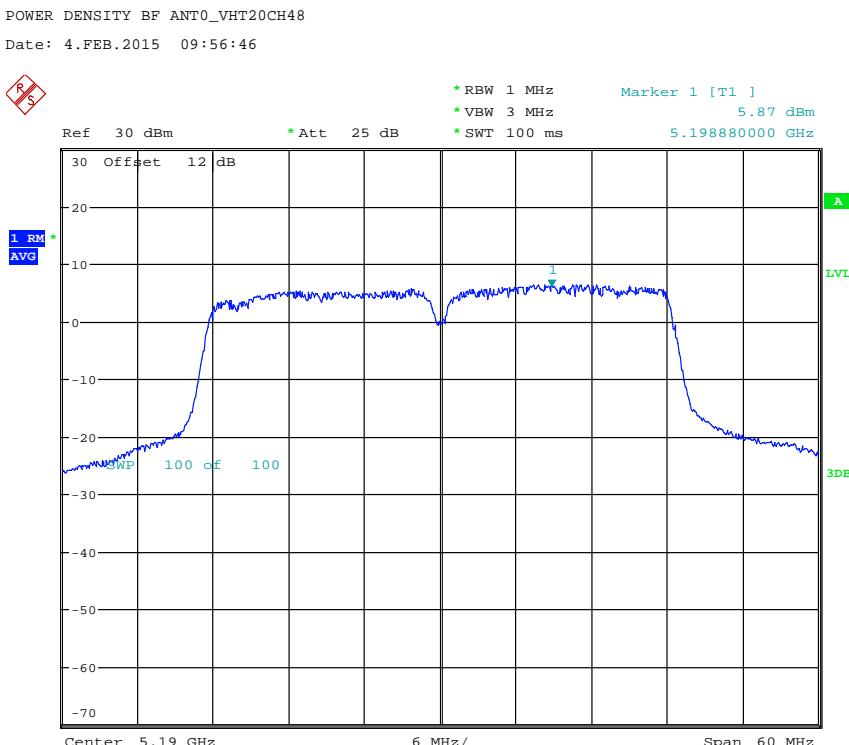
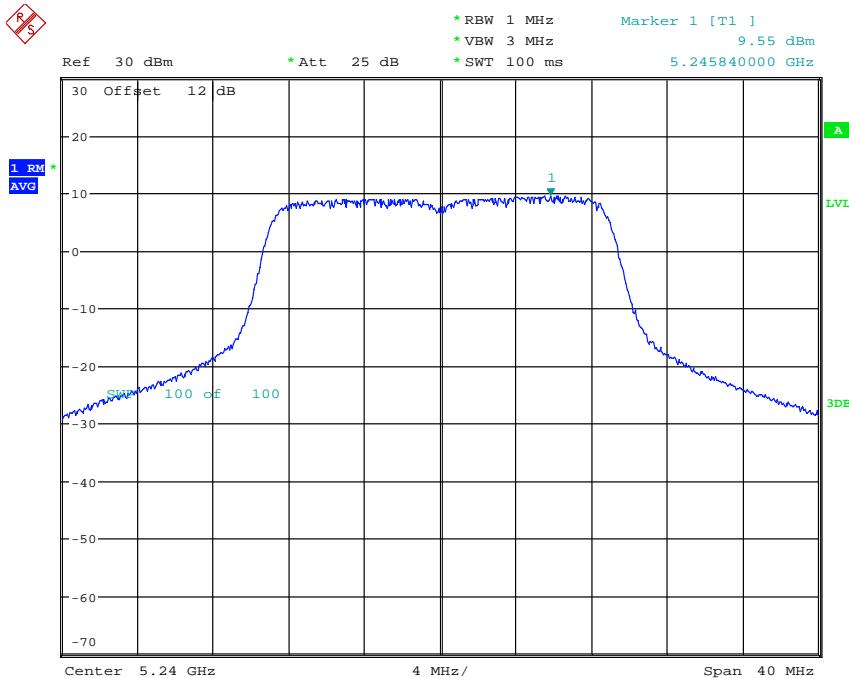
Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



POWER DENSITY BF ANTO\_VHT20CH40

Date: 4.FEB.2015 09:52:48

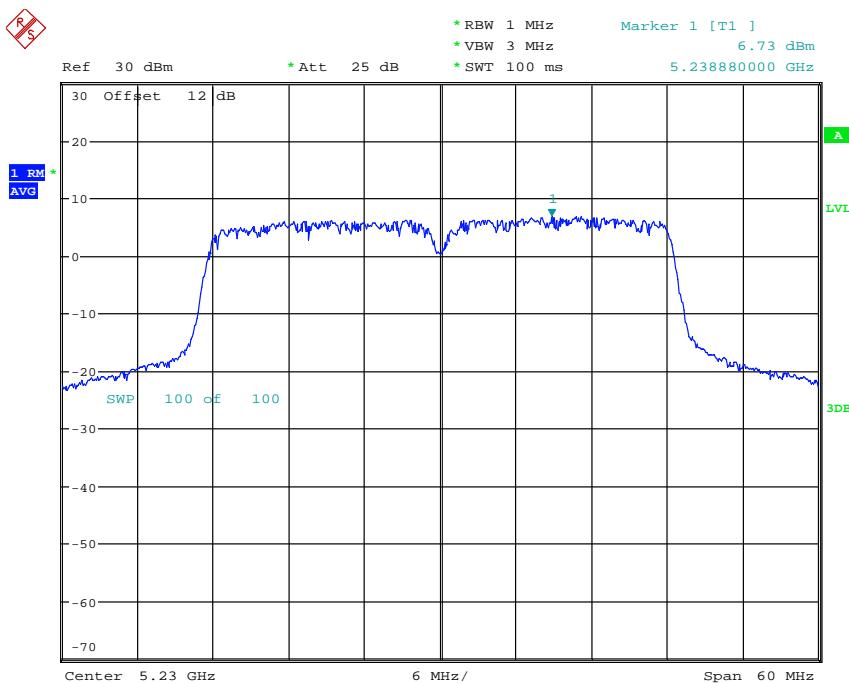
Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



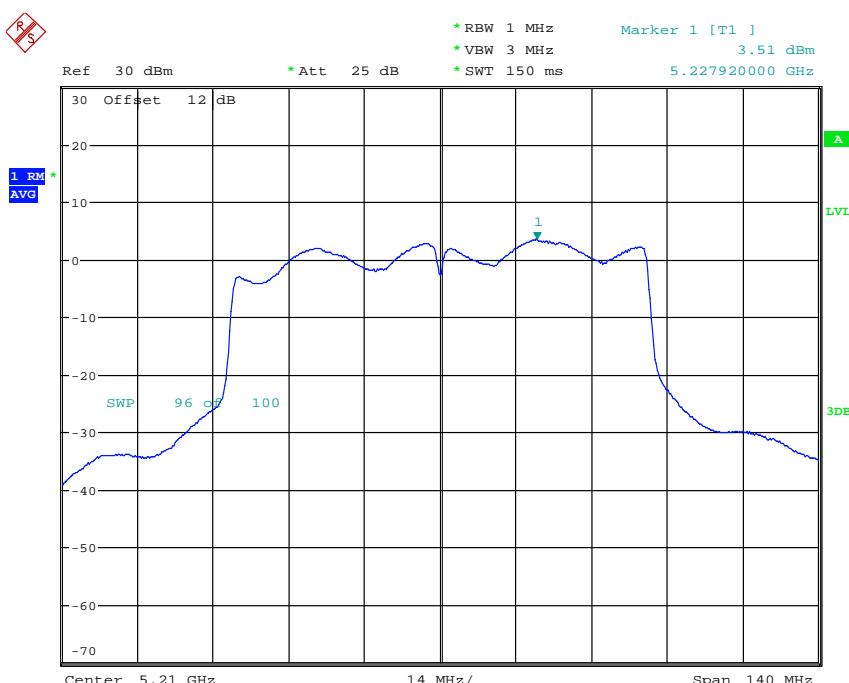
POWER DENSITY BF ANTO\_VHT40CH38

Date: 4.FEB.2015 10:02:20

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



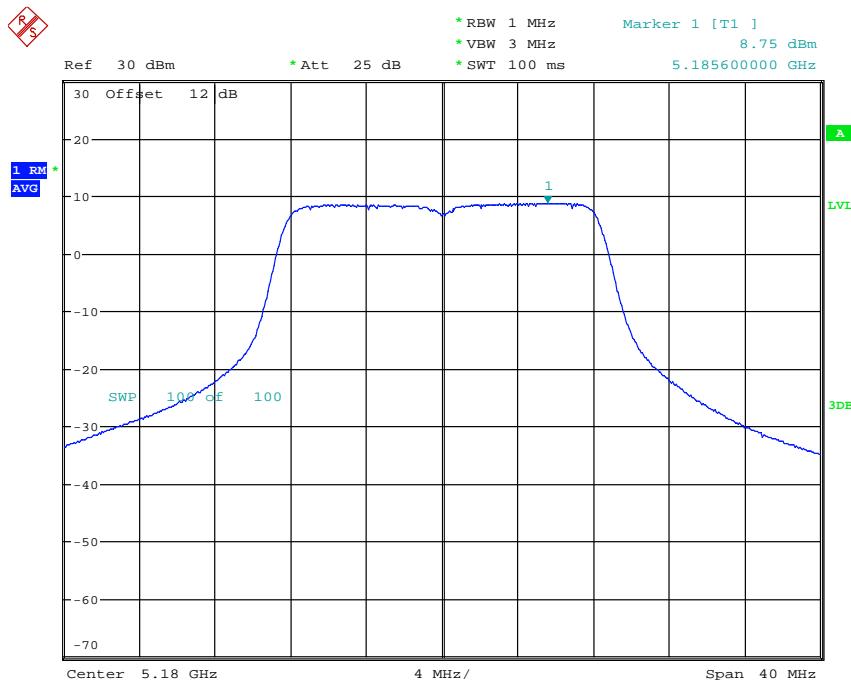
POWER DENSITY BF ANTO\_VHT40CH46  
Date: 4.FEB.2015 10:07:32



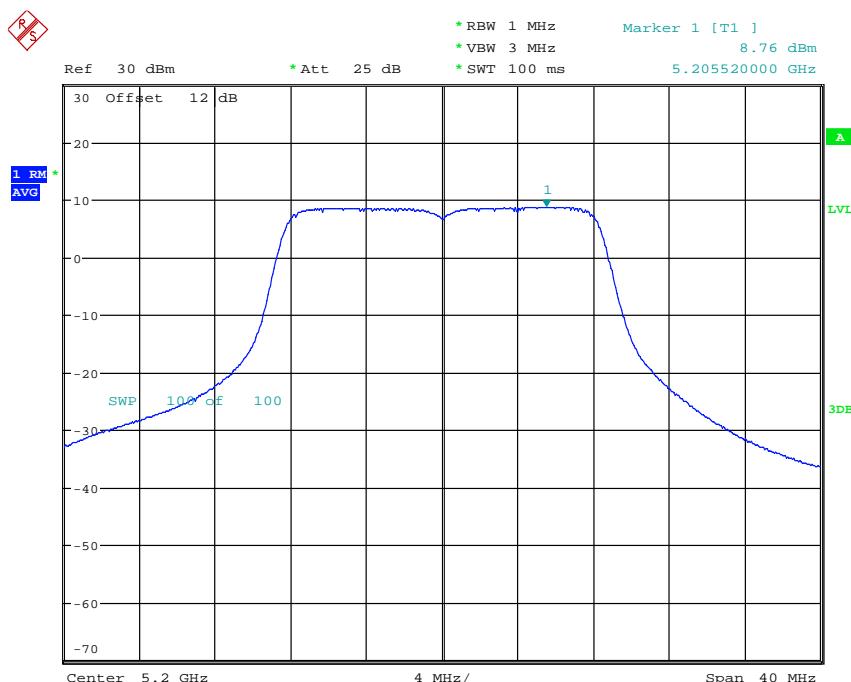
POWER DENSITY BF ANTO\_VHT80CH42  
Date: 4.FEB.2015 10:30:36

Registration number: W6M21411-14659-C-54  
 FCC ID: ZTT-REC33A

## ANT1

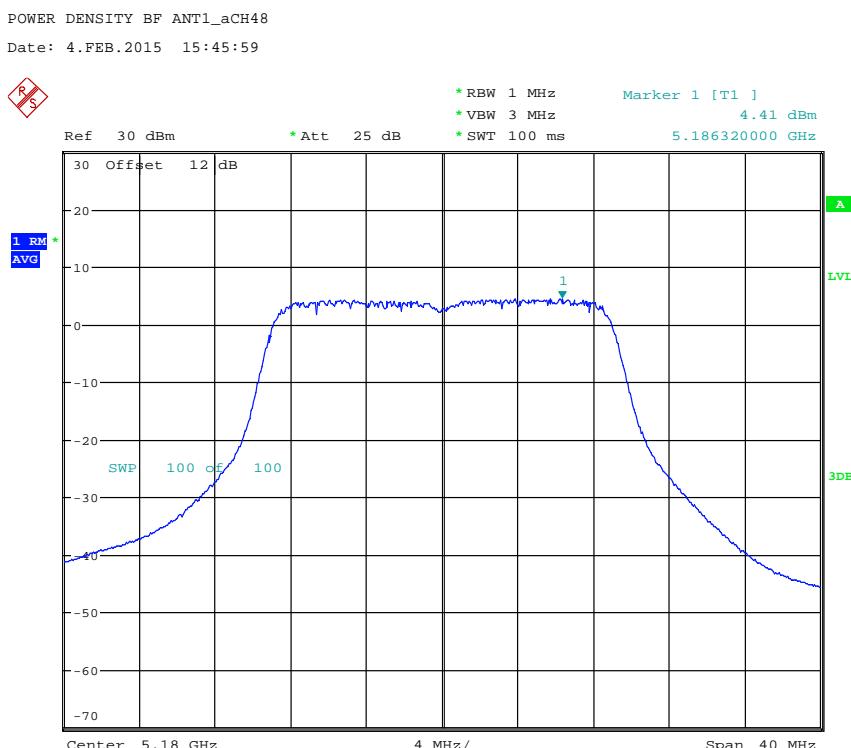
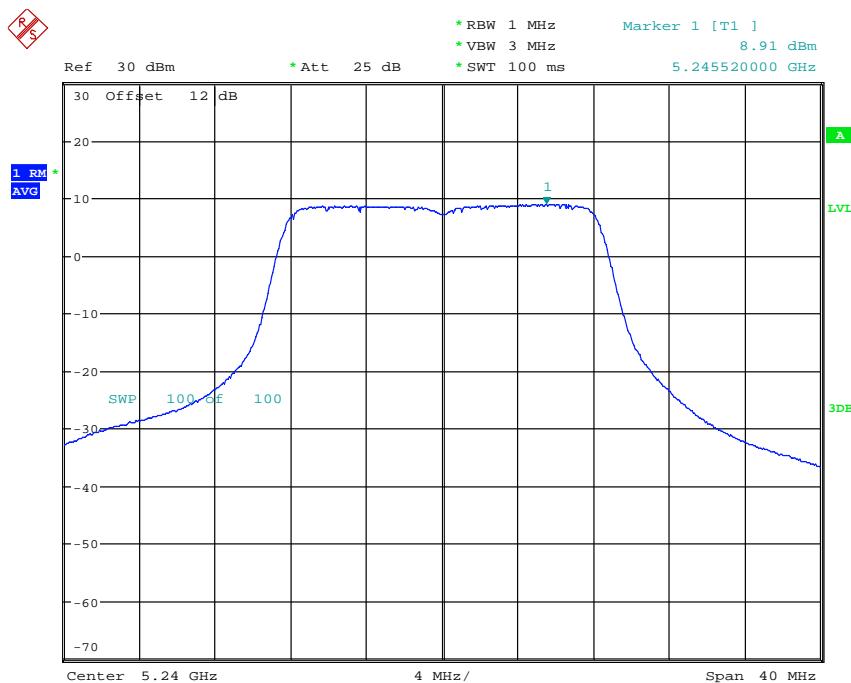


POWER DENSITY BF ANT1\_aCH36  
 Date: 4.FEB.2015 15:37:35

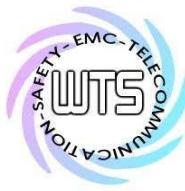


POWER DENSITY BF ANT1\_aCH40  
 Date: 4.FEB.2015 15:41:47

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

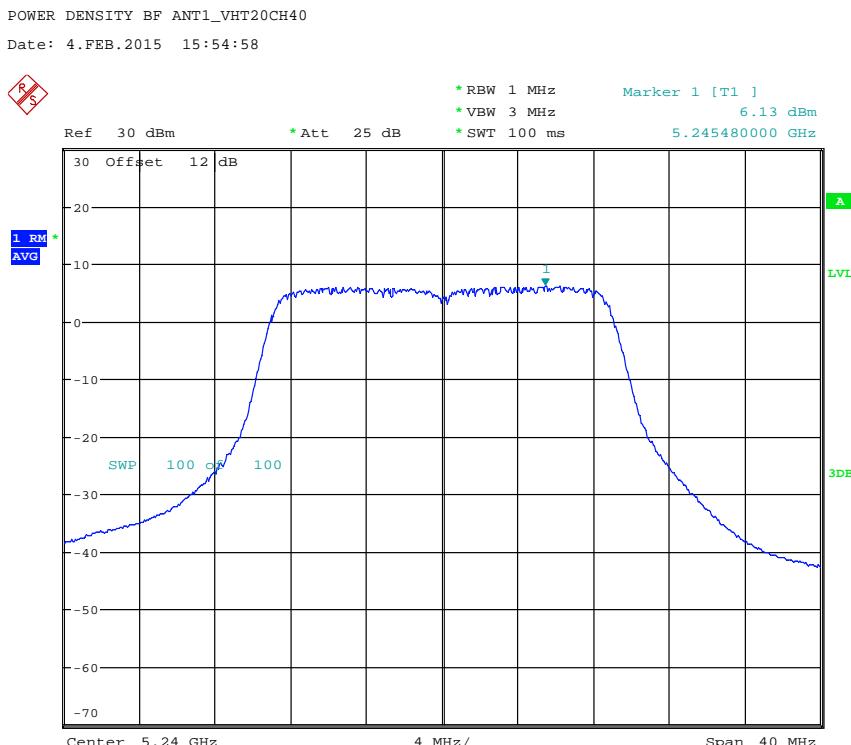
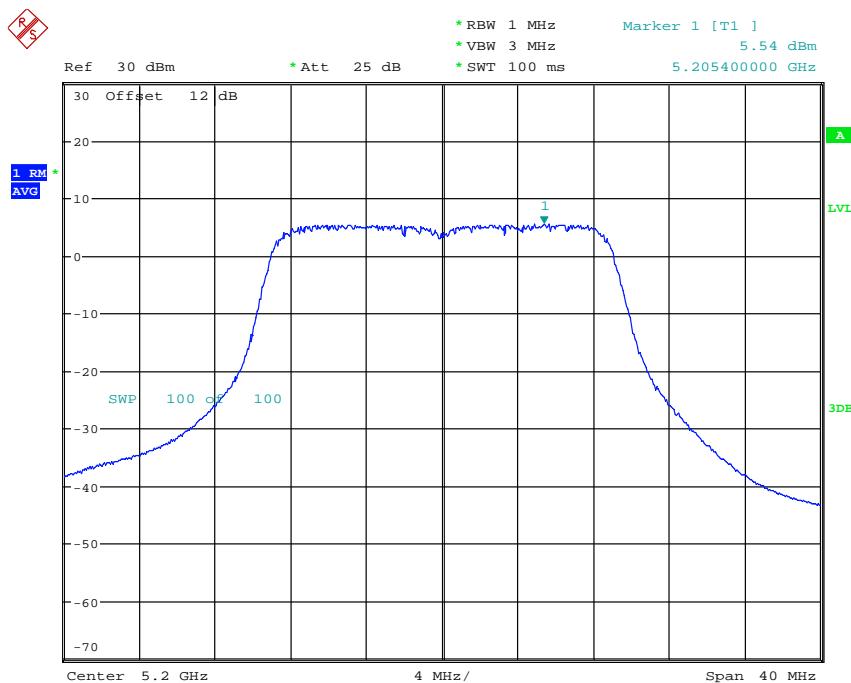


POWER DENSITY BF ANT1\_VHT20CH36  
Date: 4.FEB.2015 15:58:42



# Worldwide Testing Services(Taiwan) Co., Ltd.

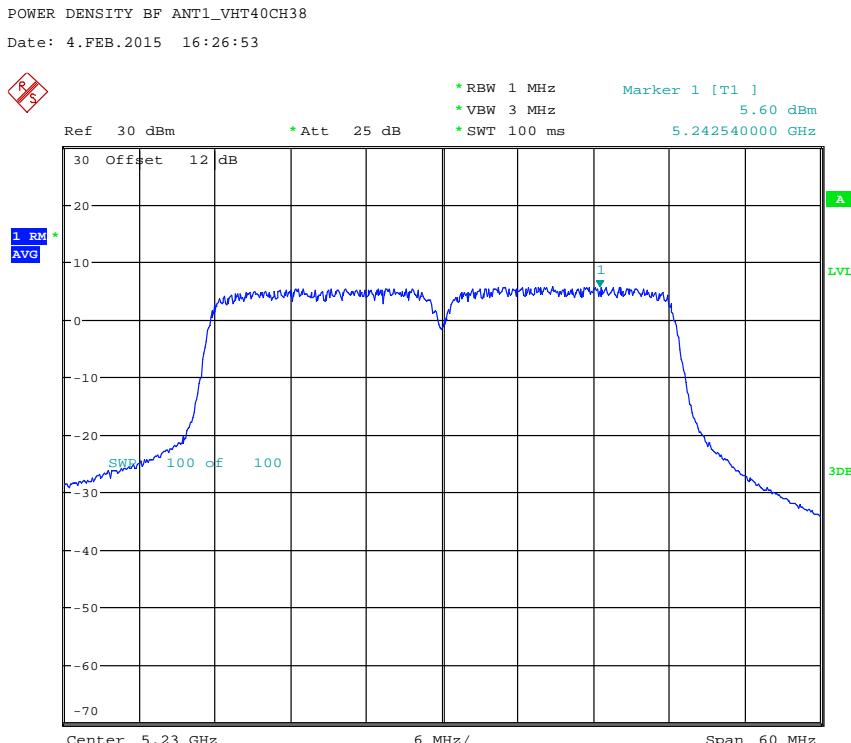
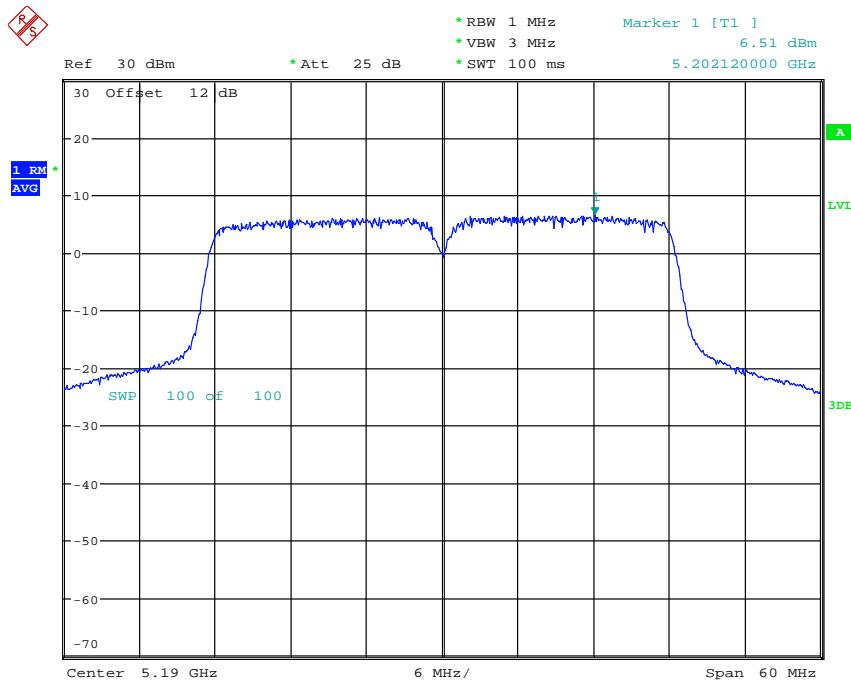
Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



POWER DENSITY BF ANT1\_VHT20CH48

Date: 4.FEB.2015 15:50:53

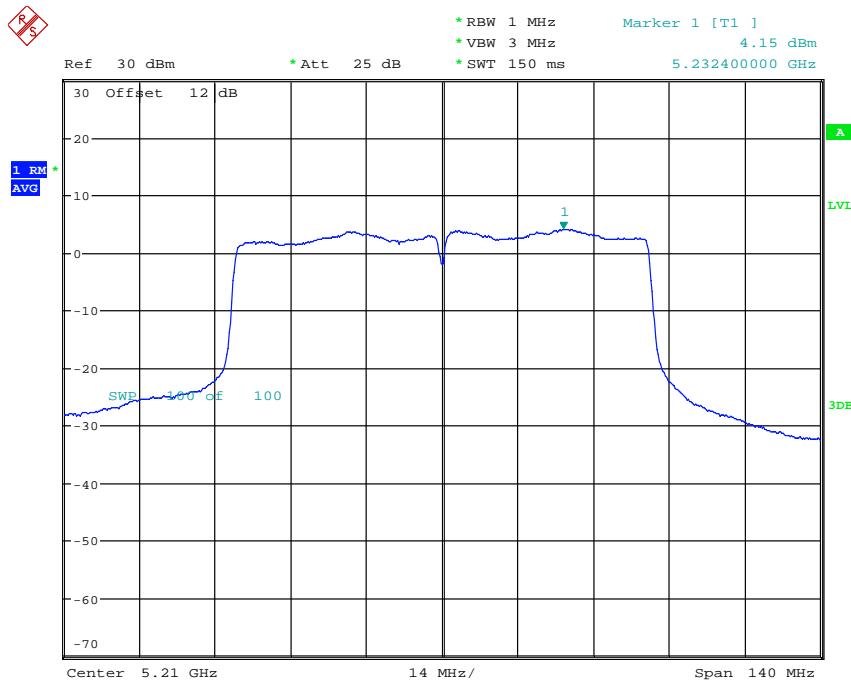
Registration number: W6M21411-14659-C-54  
 FCC ID: ZTT-REC33A



POWER DENSITY BF ANT1\_VHT40CH46

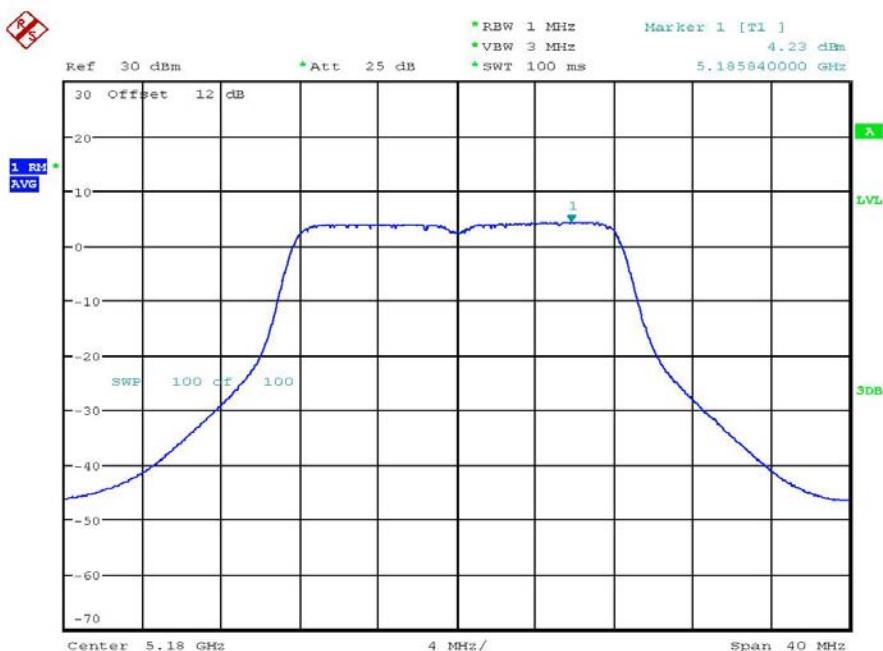
Date: 4.FEB.2015 16:13:41

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



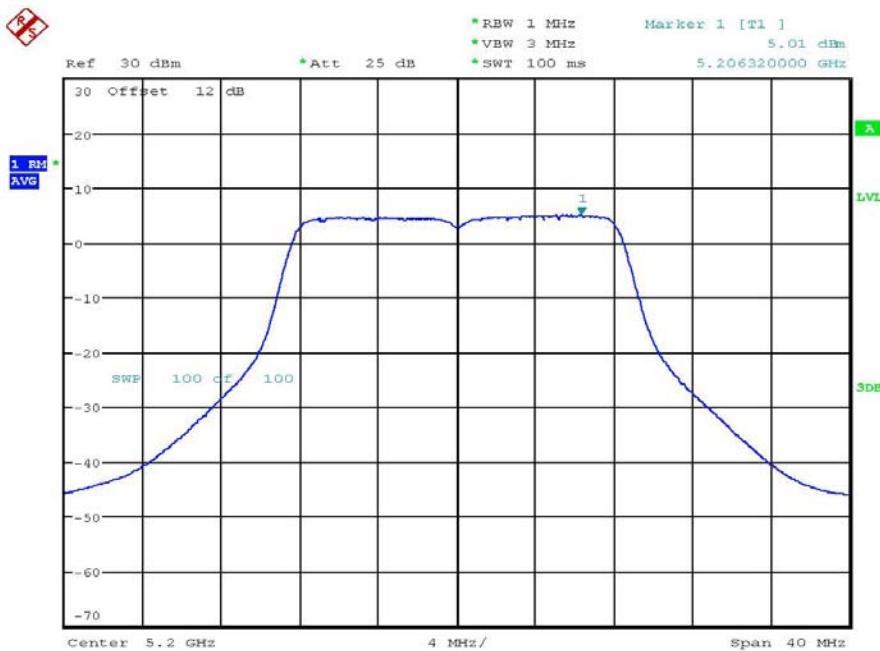
POWER DENSITY BF ANT1\_VHT80CH42  
Date: 4.FEB.2015 16:33:01

## ANT2

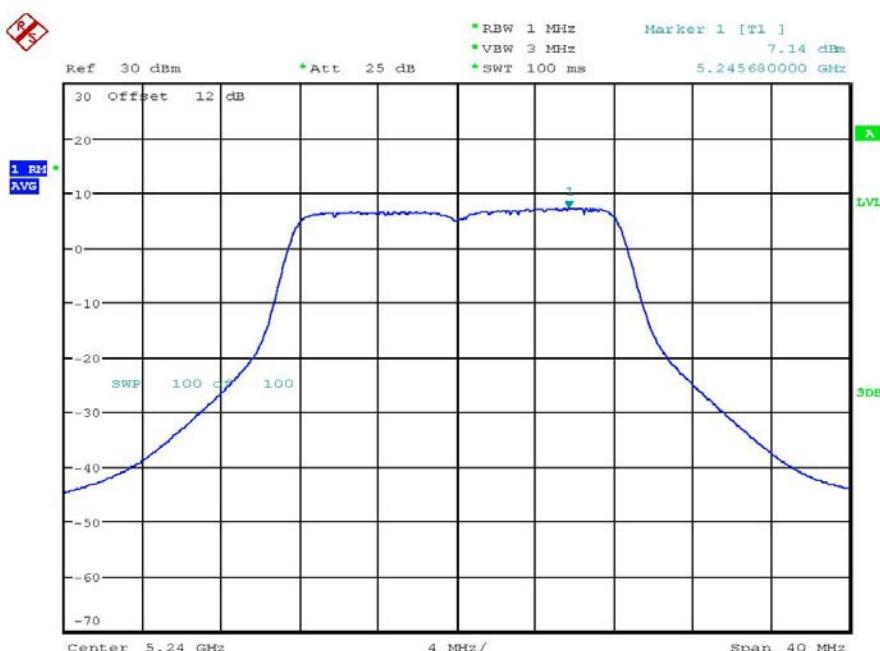


POWER DENSITY BF ANT2\_aCH36  
Date: 4.FEB.2015 18:59:59

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



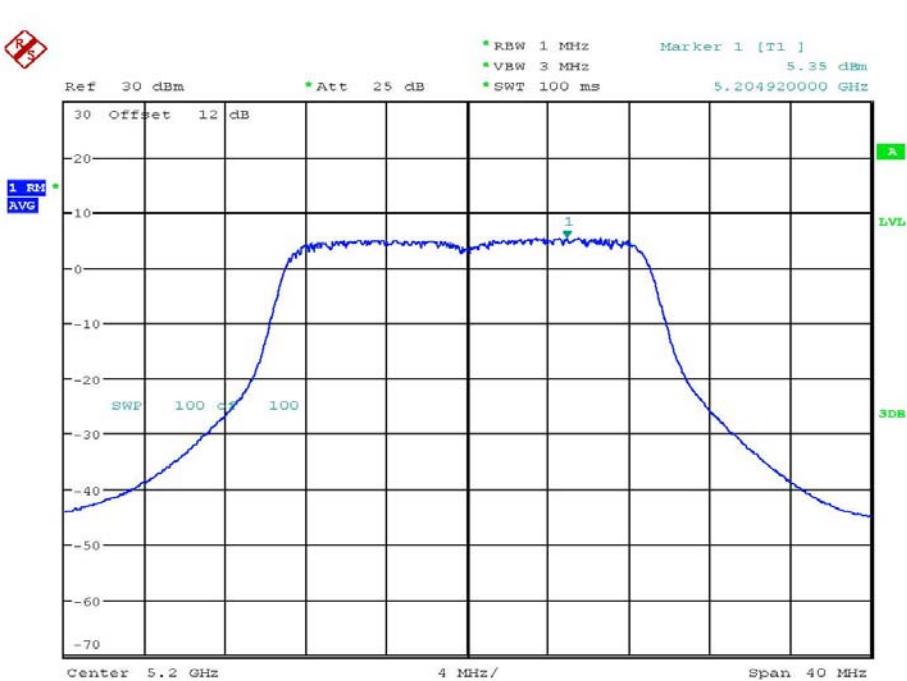
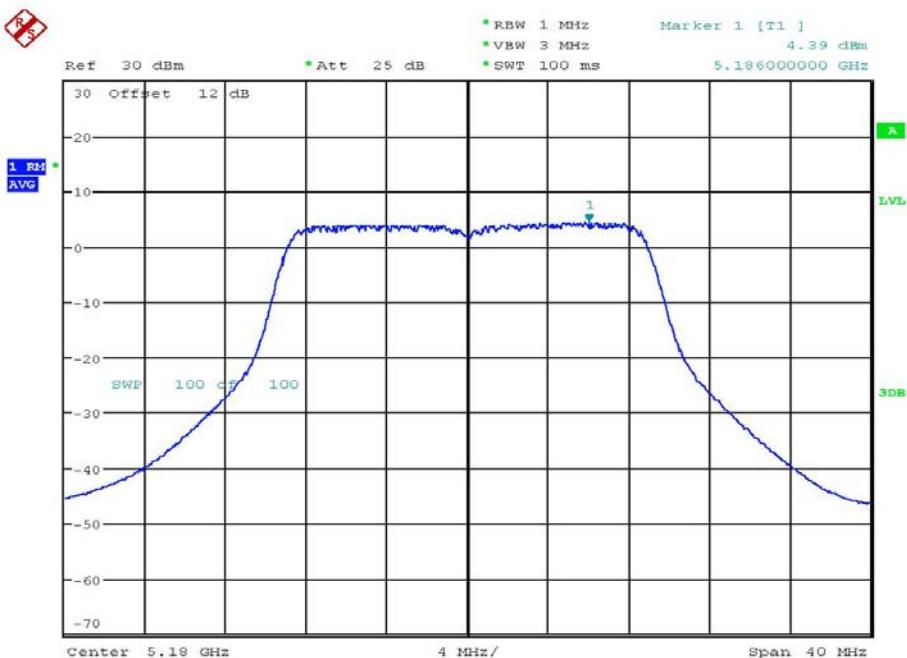
POWER DENSITY BF ANT2\_aCH40  
Date: 4.FEB.2015 18:56:15

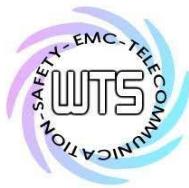


POWER DENSITY BF ANT2\_aCH48  
Date: 4.FEB.2015 18:51:14

# Worldwide Testing Services(Taiwan) Co., Ltd.

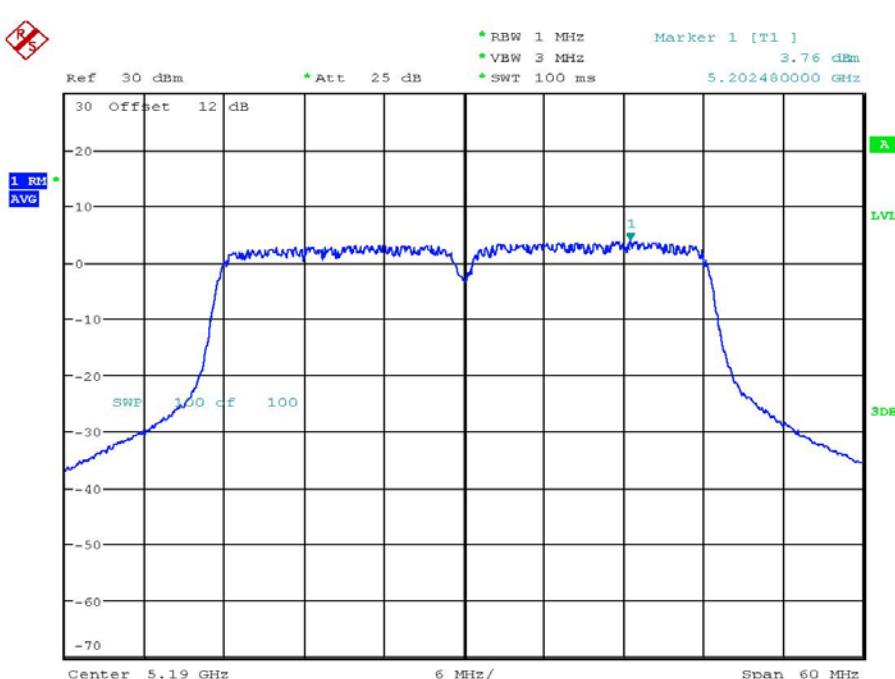
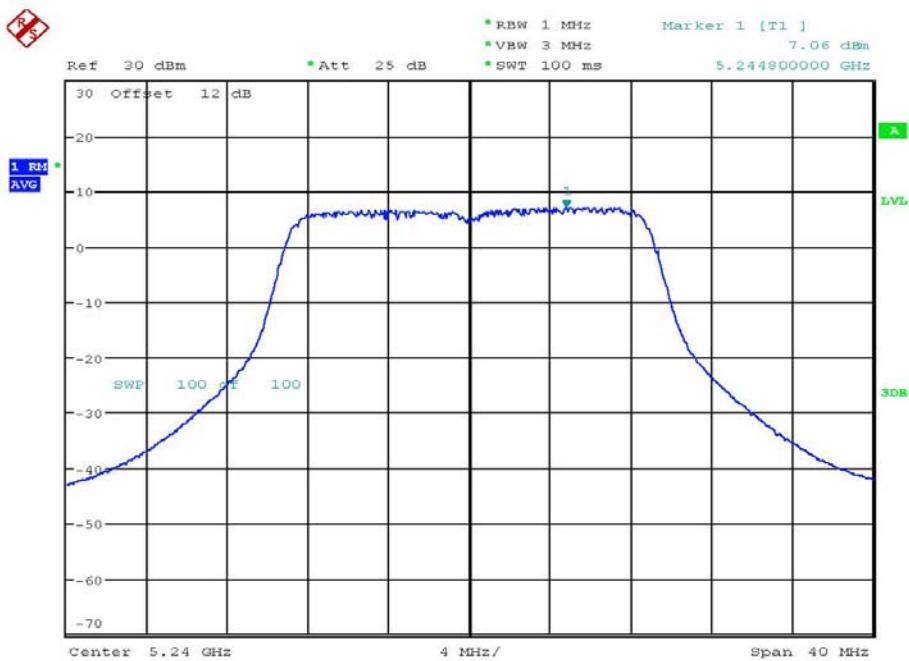
Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A





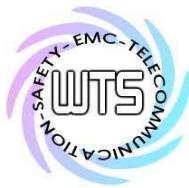
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



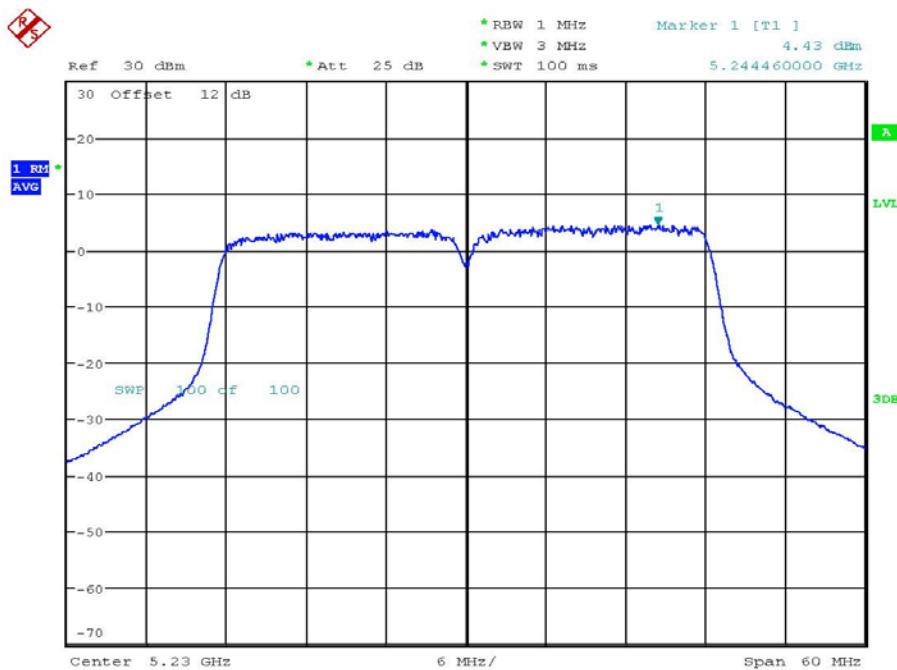
POWER DENSITY BF ANT2\_VHT40CH38

Date: 4.FEB.2015 16:51:41

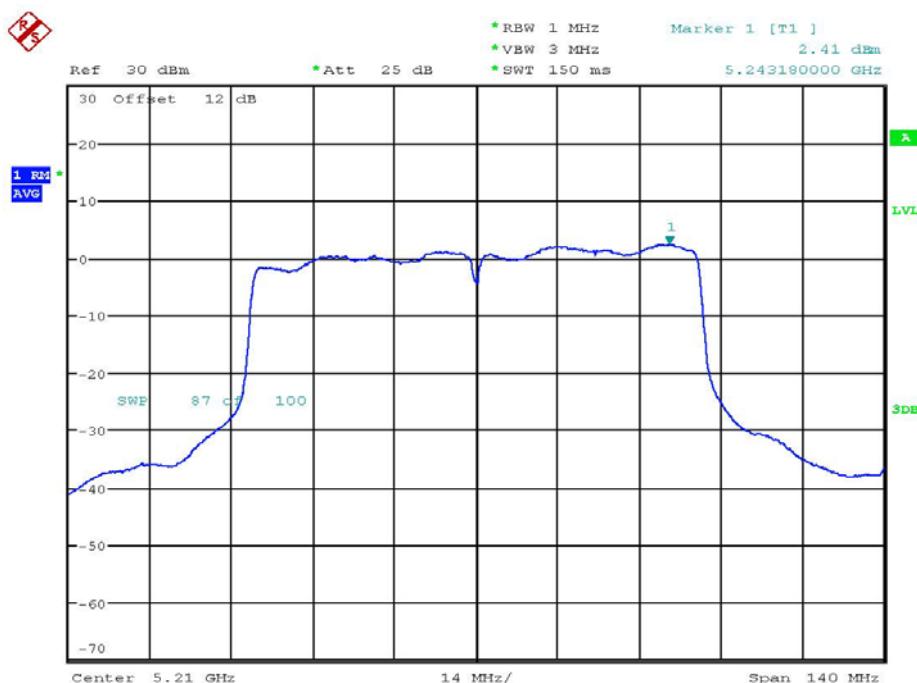


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



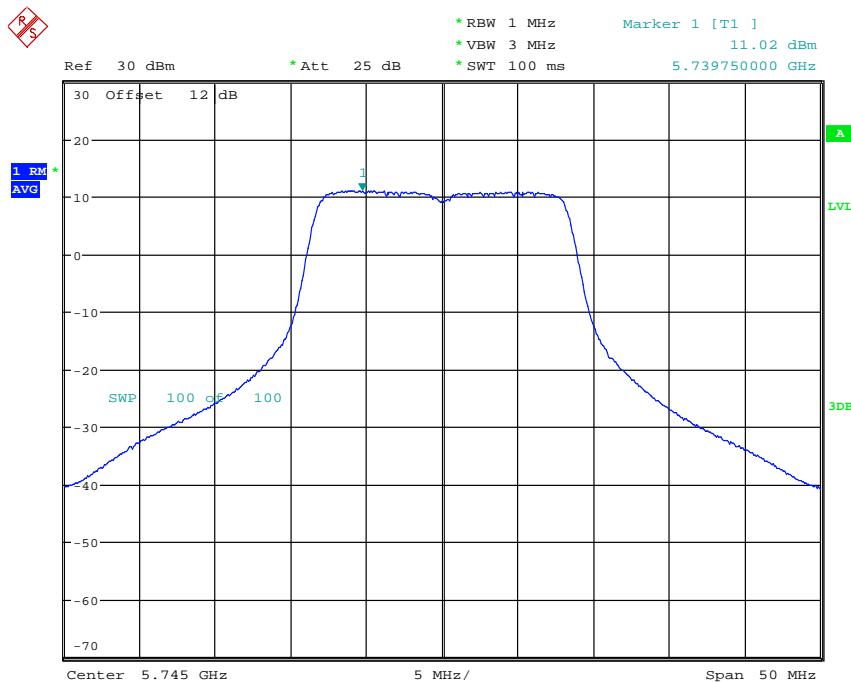
POWER DENSITY BF ANT2\_VHT40CH46  
Date: 4.FEB.2015 16:47:01



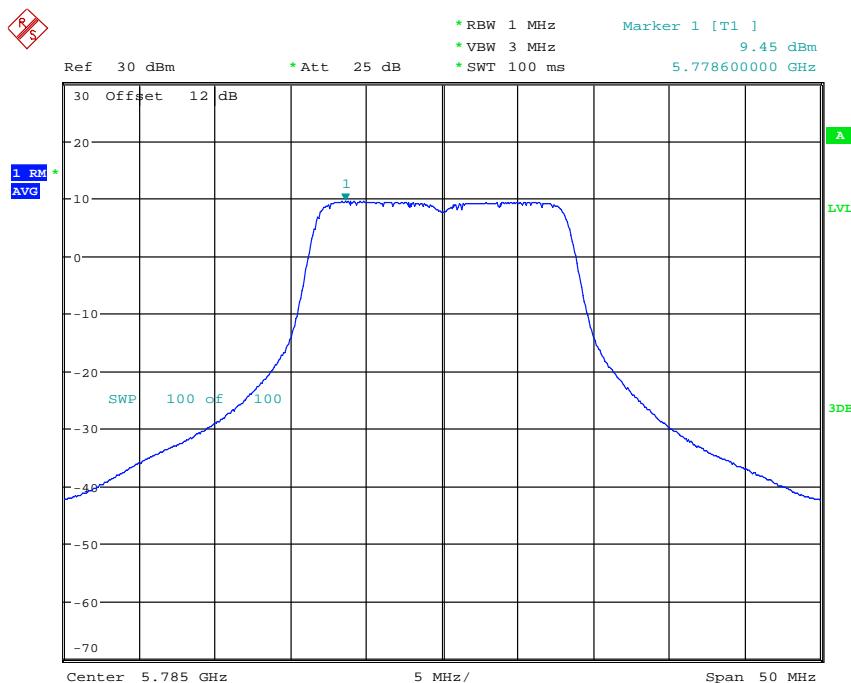
POWER DENSITY BF ANT2\_VHT80CH42  
Date: 4.FEB.2015 16:41:01

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

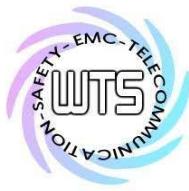
Band 4  
ANT0



POWER DENSITY CDD ANT0\_aCH149  
Date: 4.FEB.2015 10:51:29

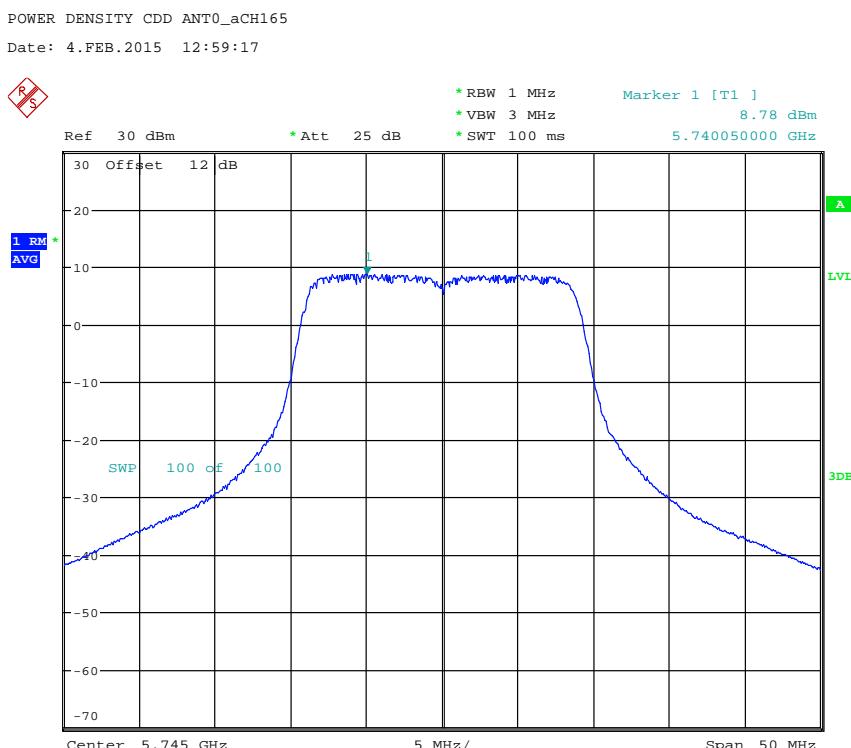
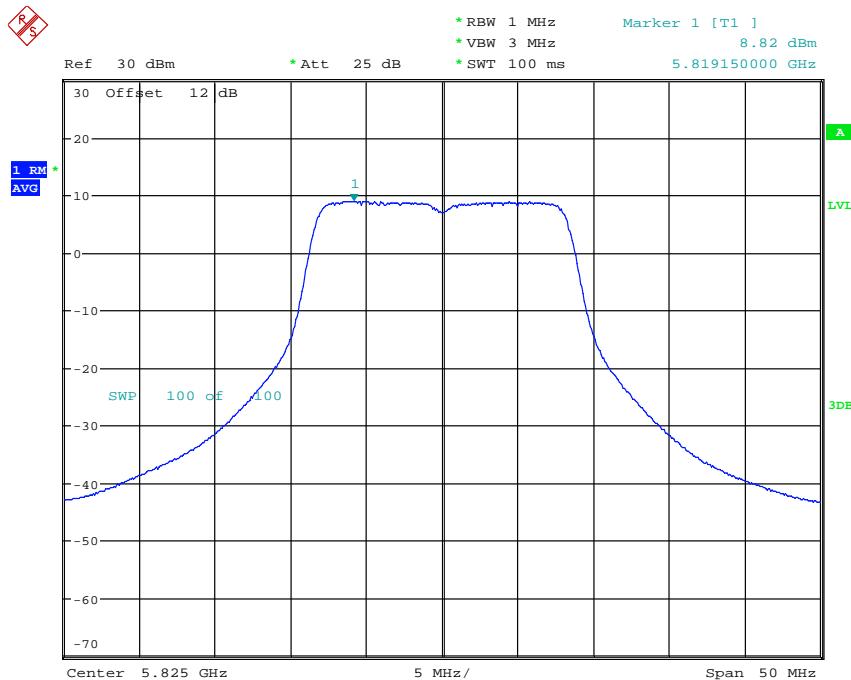


POWER DENSITY CDD ANT0\_aCH157  
Date: 4.FEB.2015 10:55:27



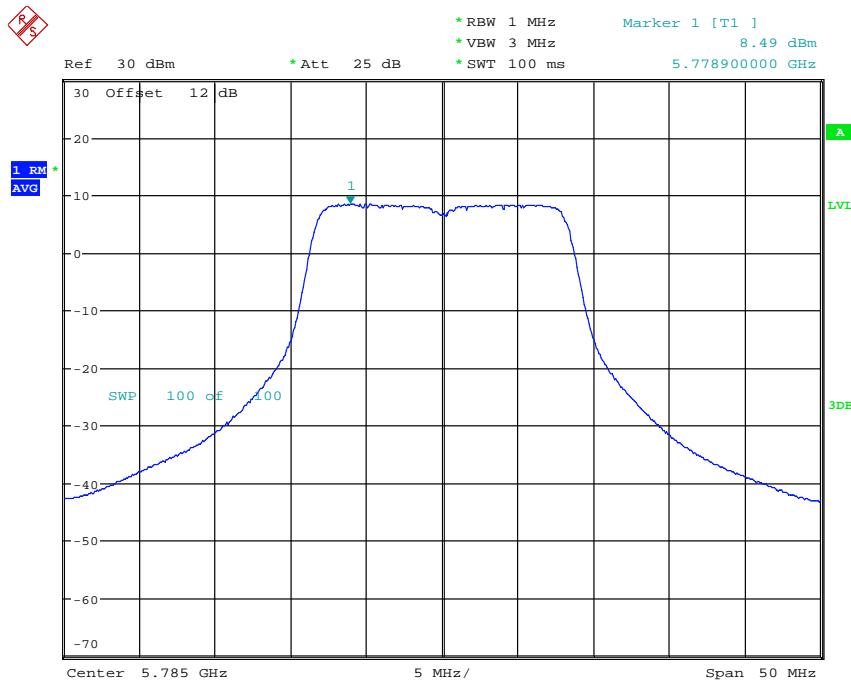
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

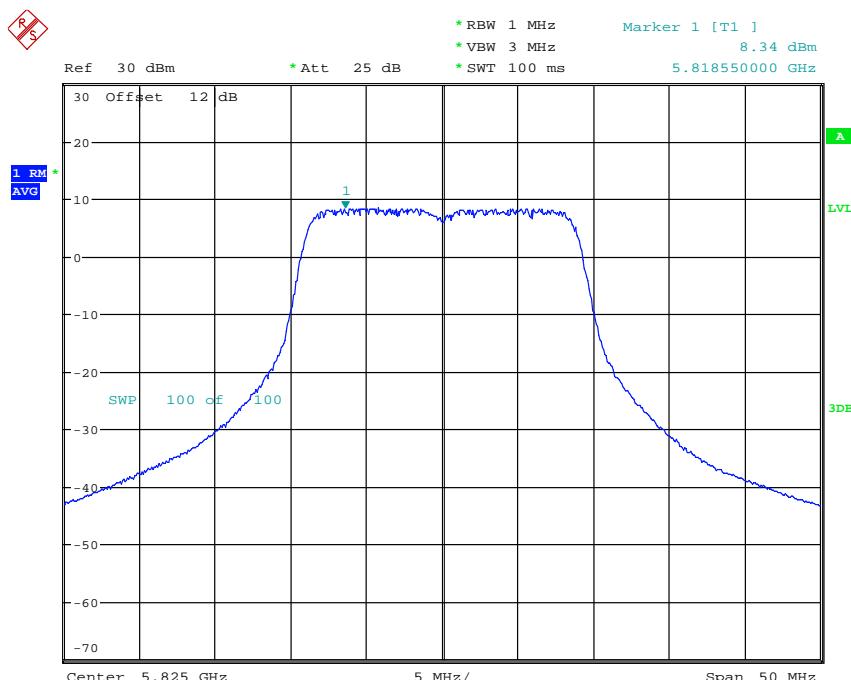


POWER DENSITY CDD ANT0\_VHT20CH149  
Date: 4.FEB.2015 13:13:10

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

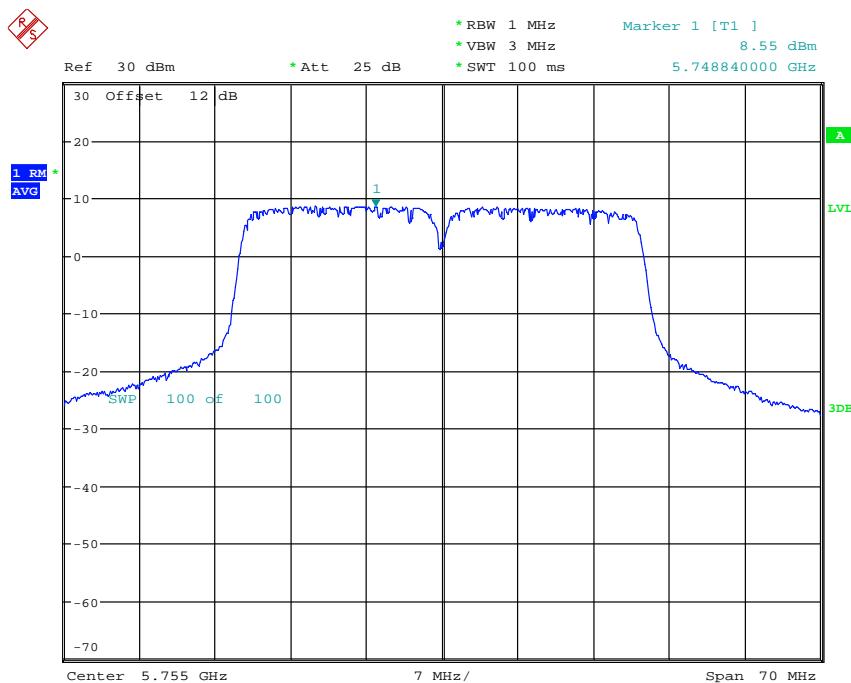


POWER DENSITY CDD ANT0\_VHT20CH157  
Date: 4.FEB.2015 13:07:41

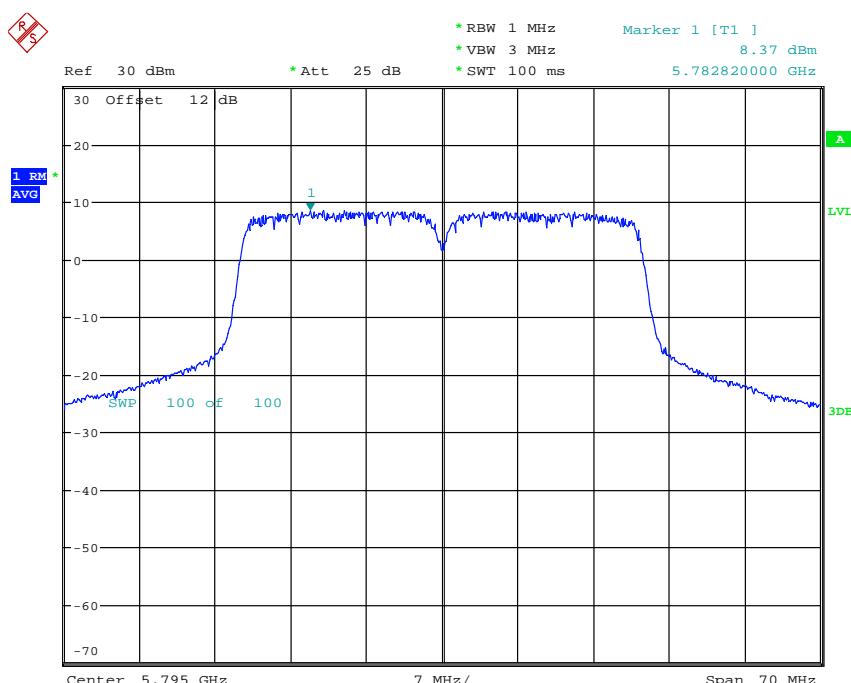


POWER DENSITY CDD ANT0\_VHT20CH165  
Date: 4.FEB.2015 13:03:57

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

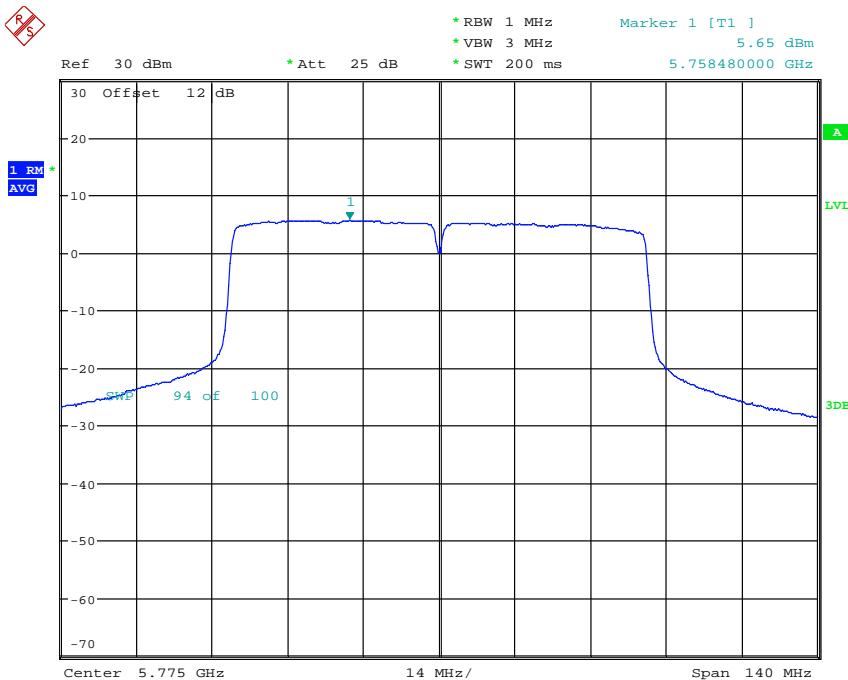


POWER DENSITY CDD ANTO\_VHT40CH151  
Date: 4.FEB.2015 13:34:22



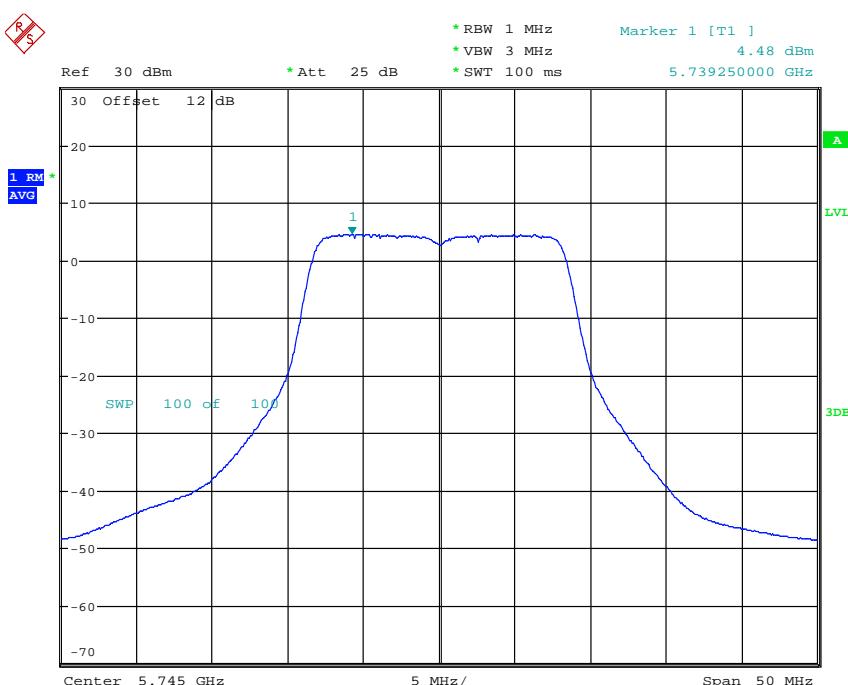
POWER DENSITY CDD ANTO\_VHT40CH159  
Date: 4.FEB.2015 13:38:38

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



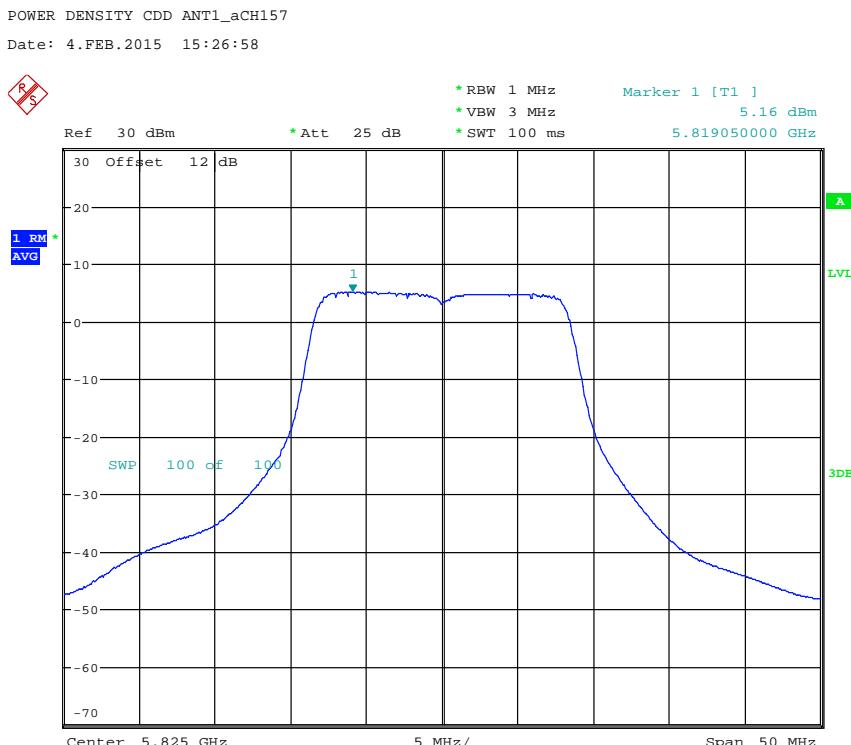
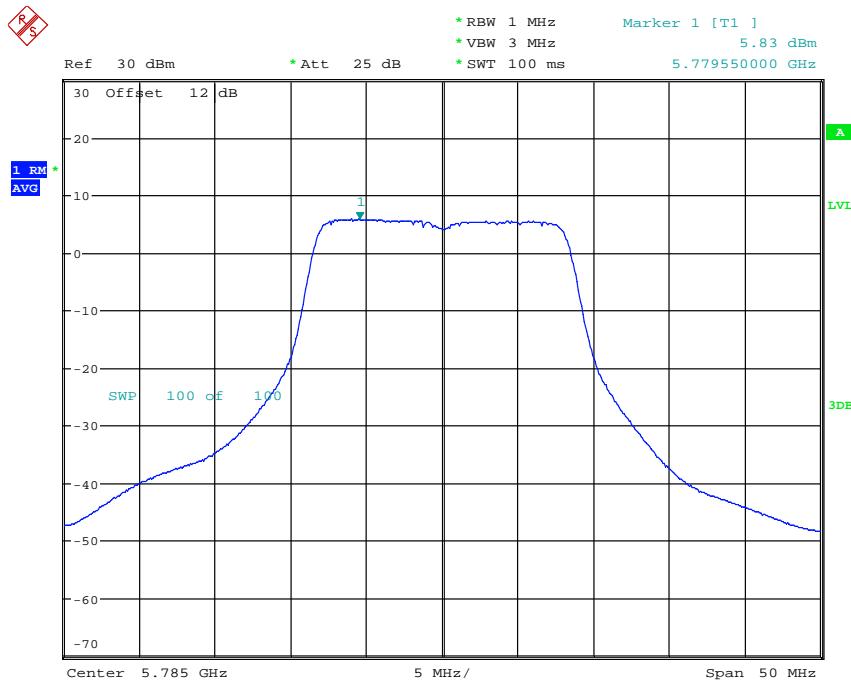
POWER DENSITY CDD ANT0\_VHT80CH155  
Date: 4.FEB.2015 13:43:36

ANT1



POWER DENSITY CDD ANT1\_aCH149  
Date: 4.FEB.2015 15:22:39

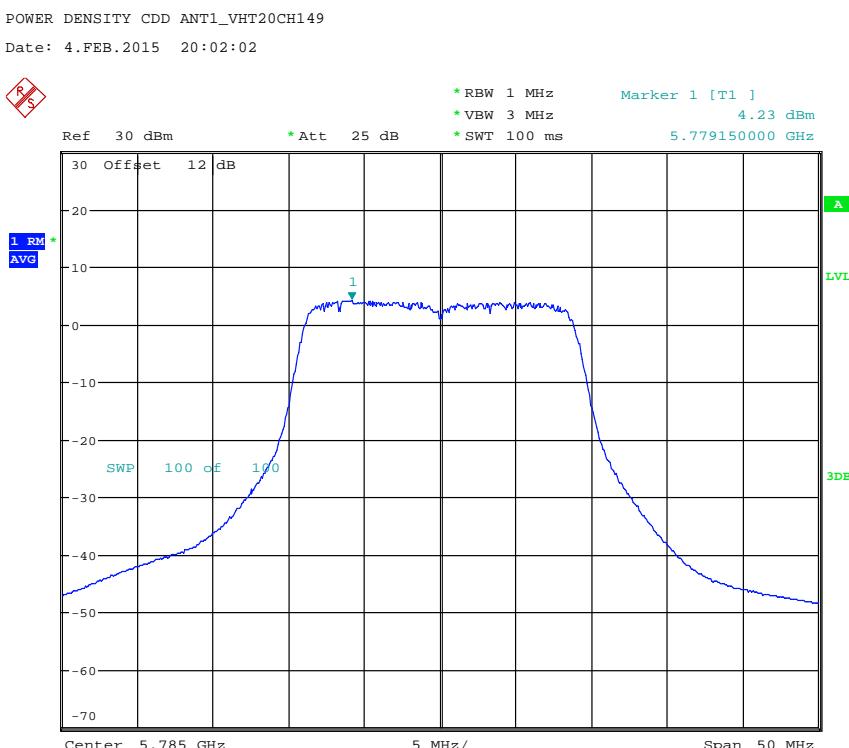
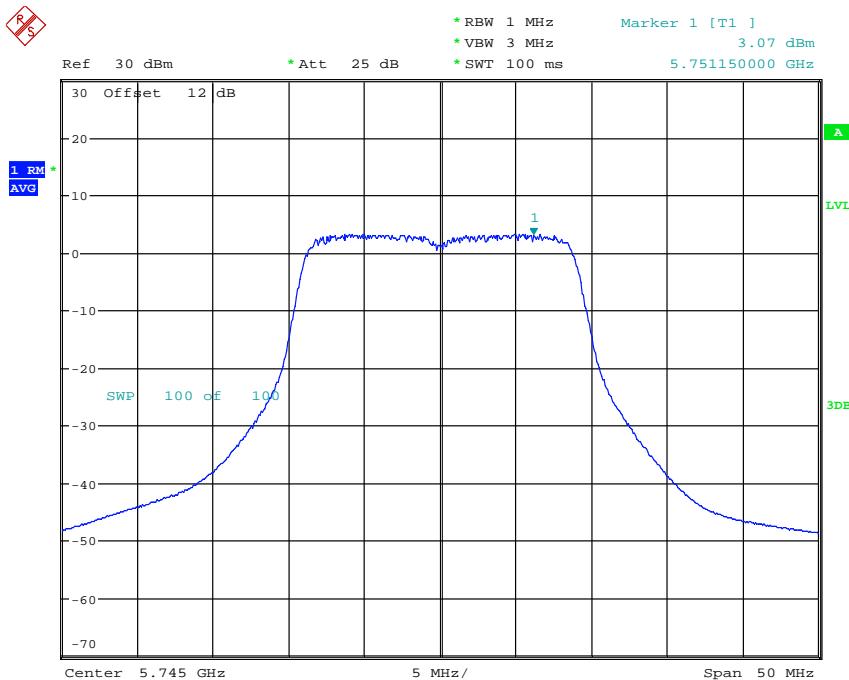
Registration number: W6M21411-14659-C-54  
 FCC ID: ZTT-REC33A



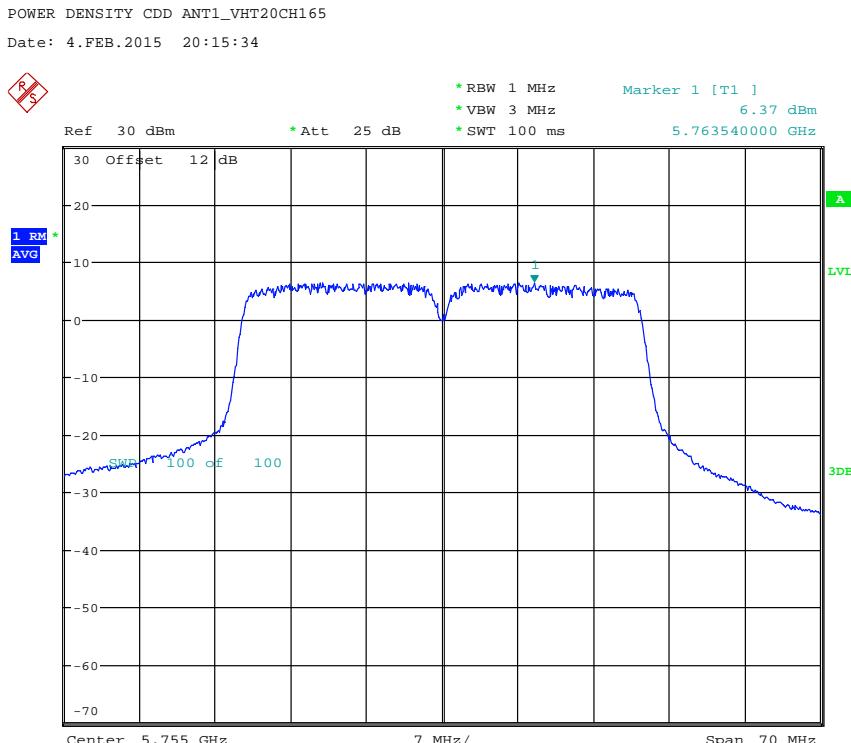
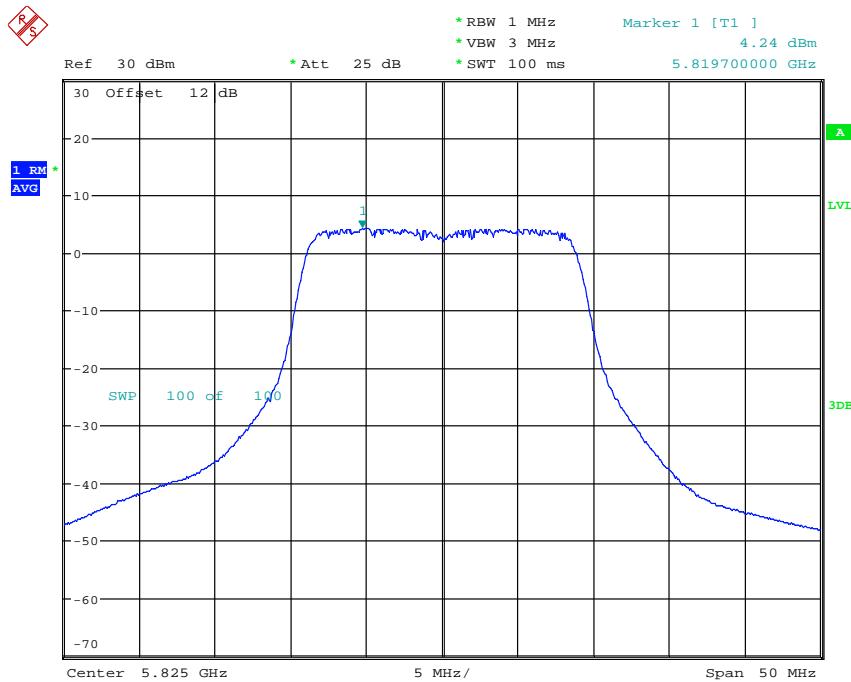
POWER DENSITY CDD ANT1\_aCH165

Date: 4.FEB.2015 15:30:07

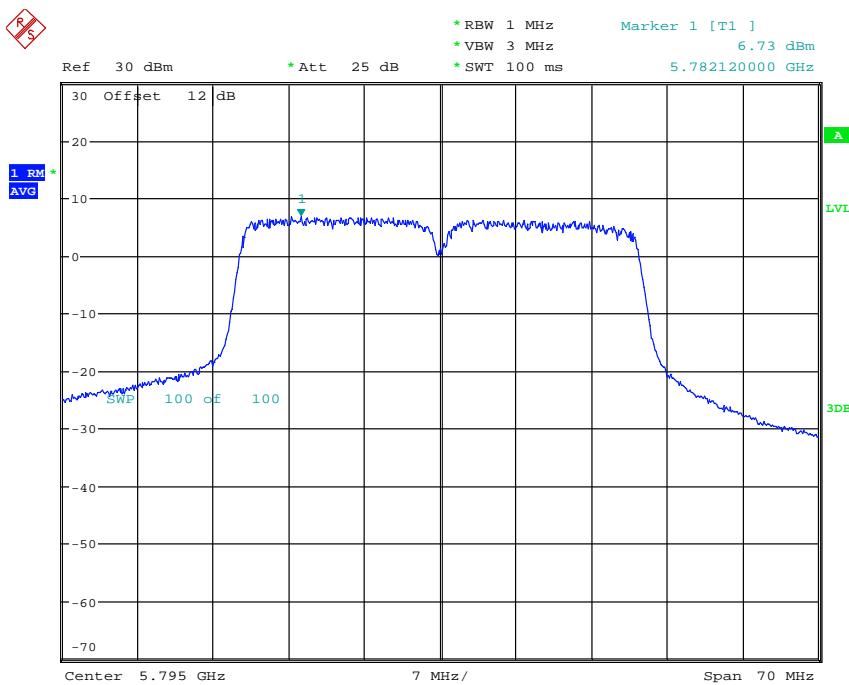
Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



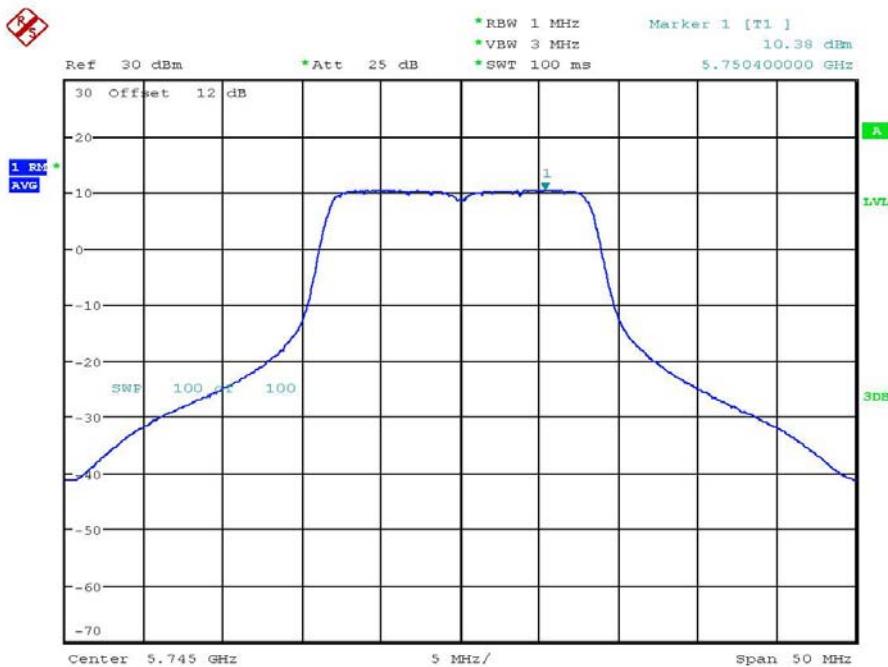
Registration number: W6M21411-14659-C-54  
 FCC ID: ZTT-REC33A



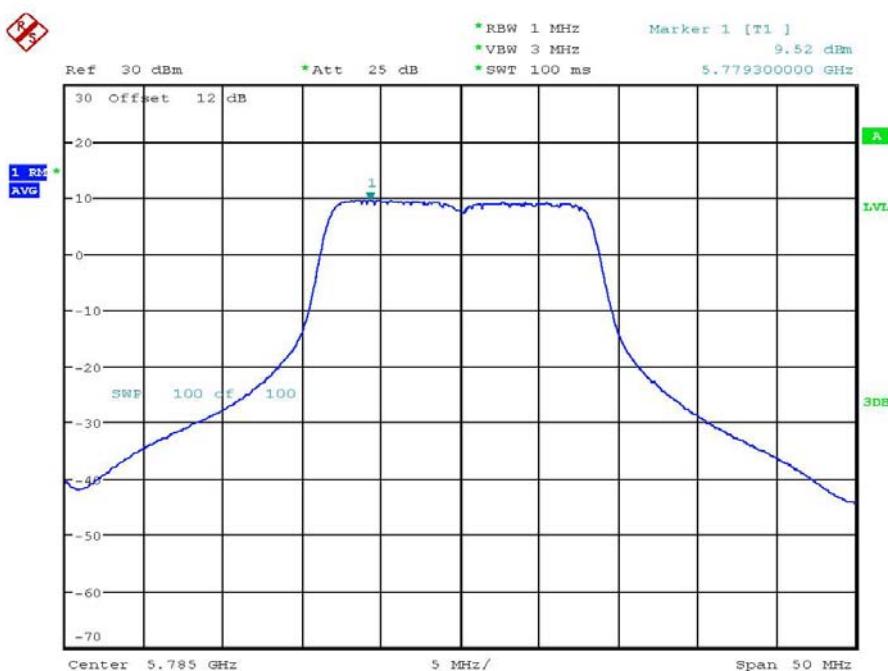
POWER DENSITY CDD ANT1\_VHT80CH155  
 Date: 4.FEB.2015 14:29:48

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

## ANT2

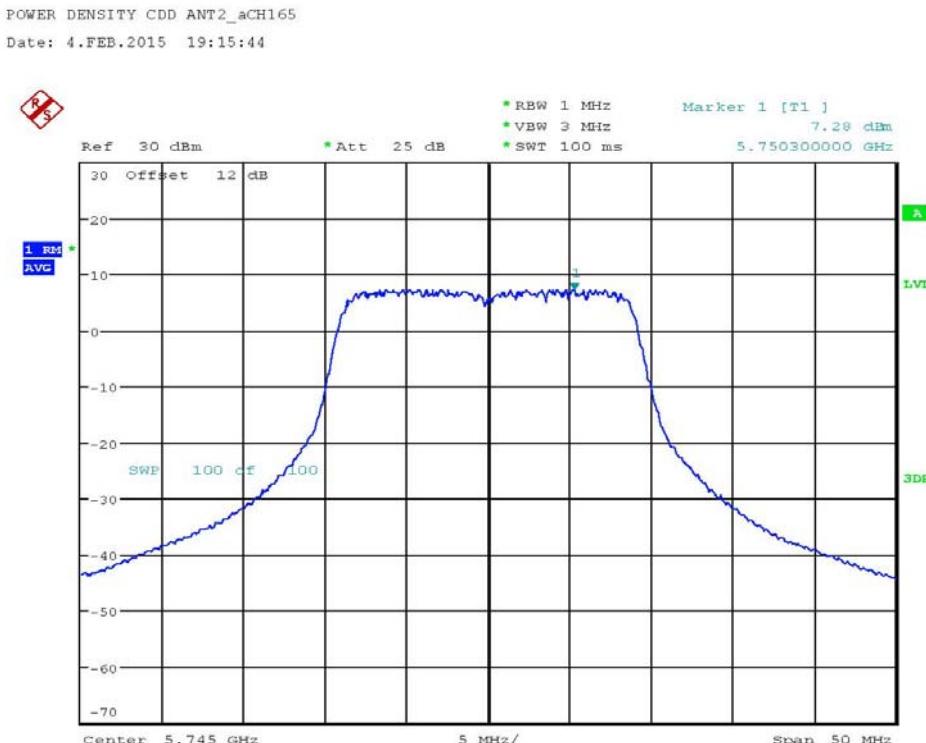
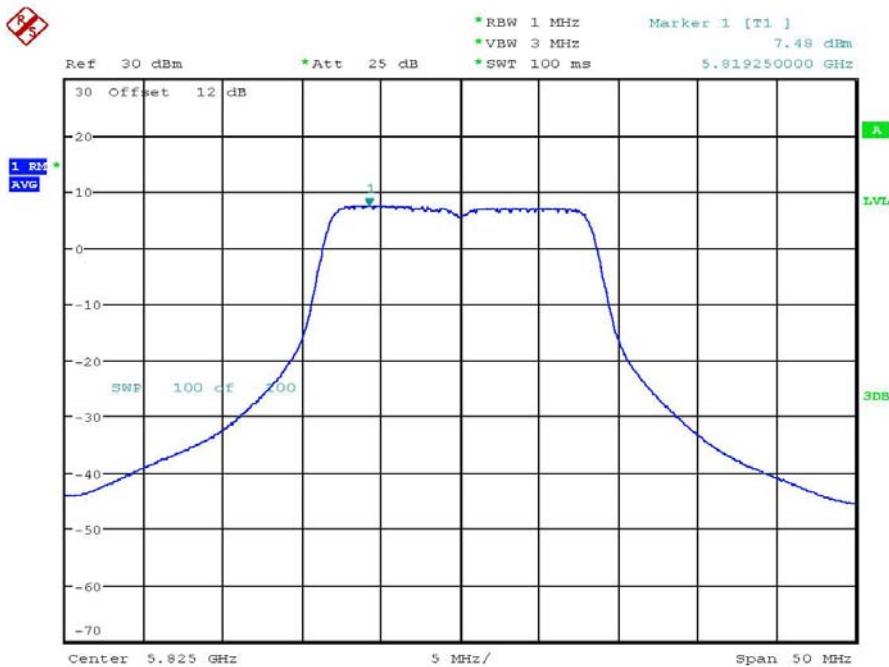


POWER DENSITY CDD ANT2\_aCH149  
Date: 4.FEB.2015 19:07:34

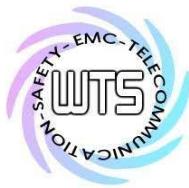


POWER DENSITY CDD ANT2\_aCH157  
Date: 4.FEB.2015 19:12:14

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A

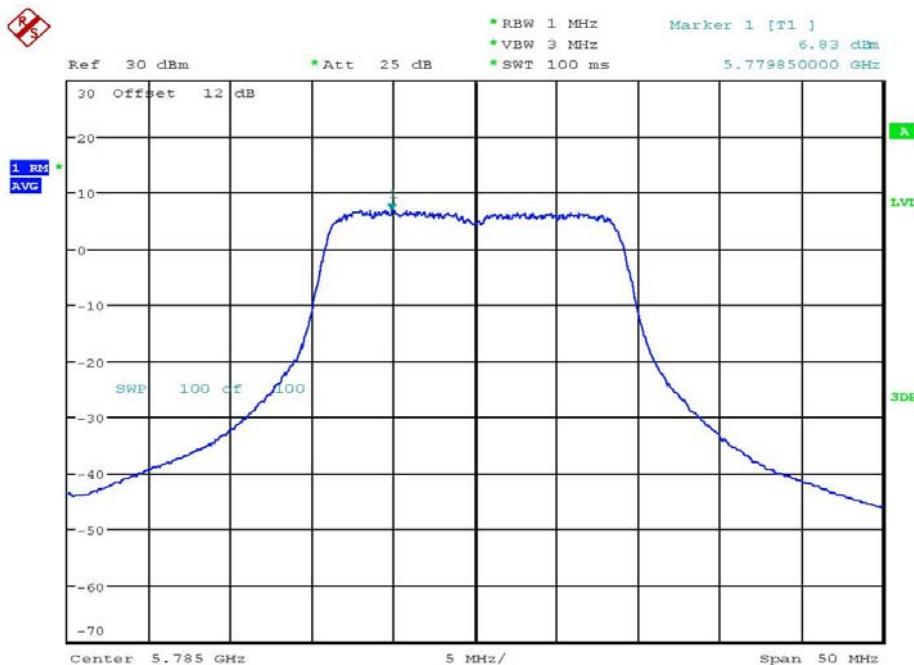


POWER DENSITY CDD ANT2\_VHT20CH149  
Date: 4.FEB.2015 19:27:45

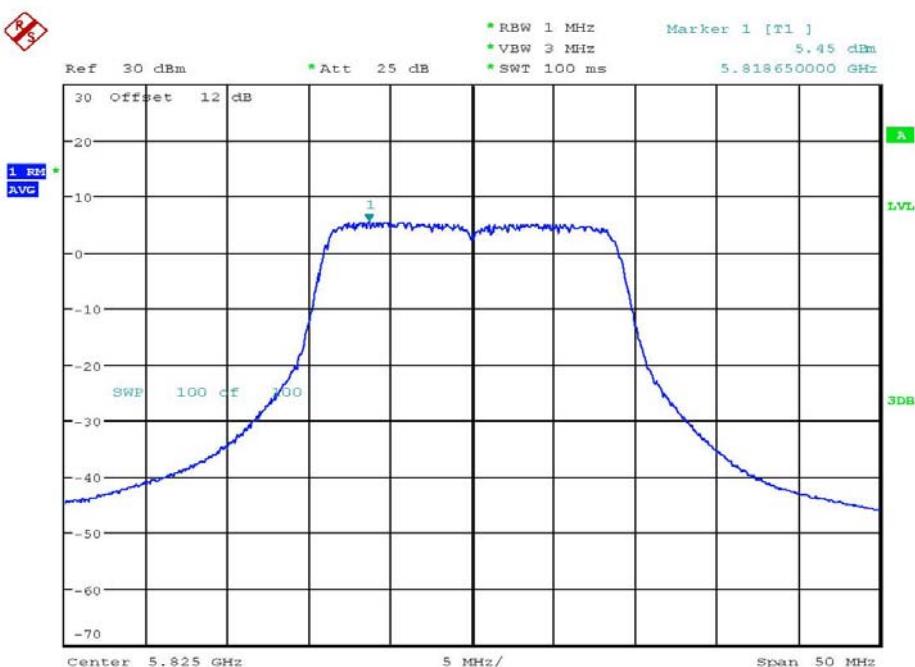


# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



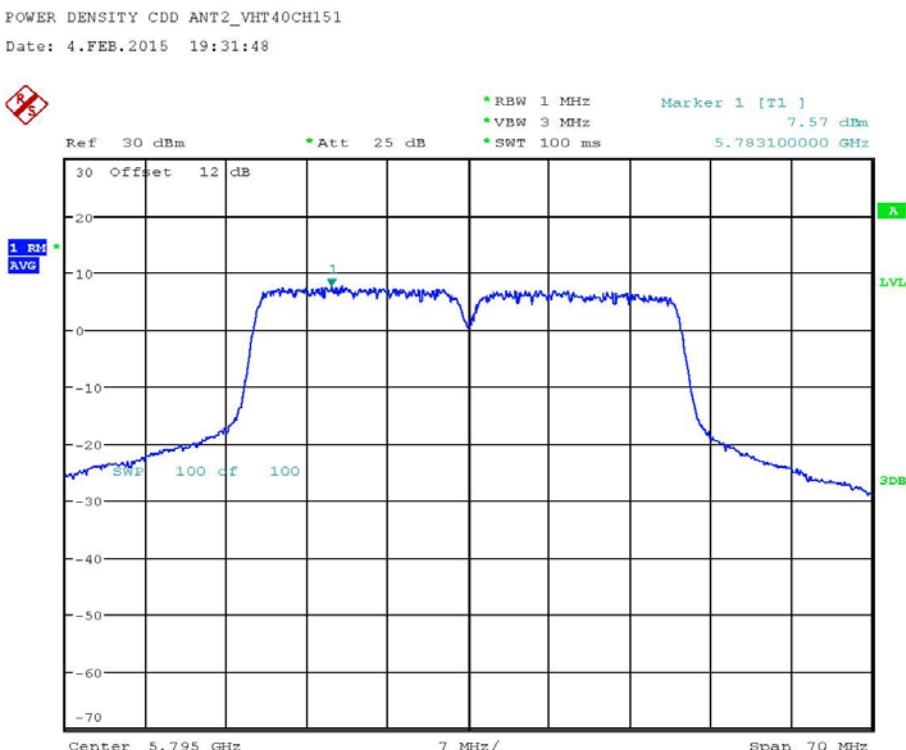
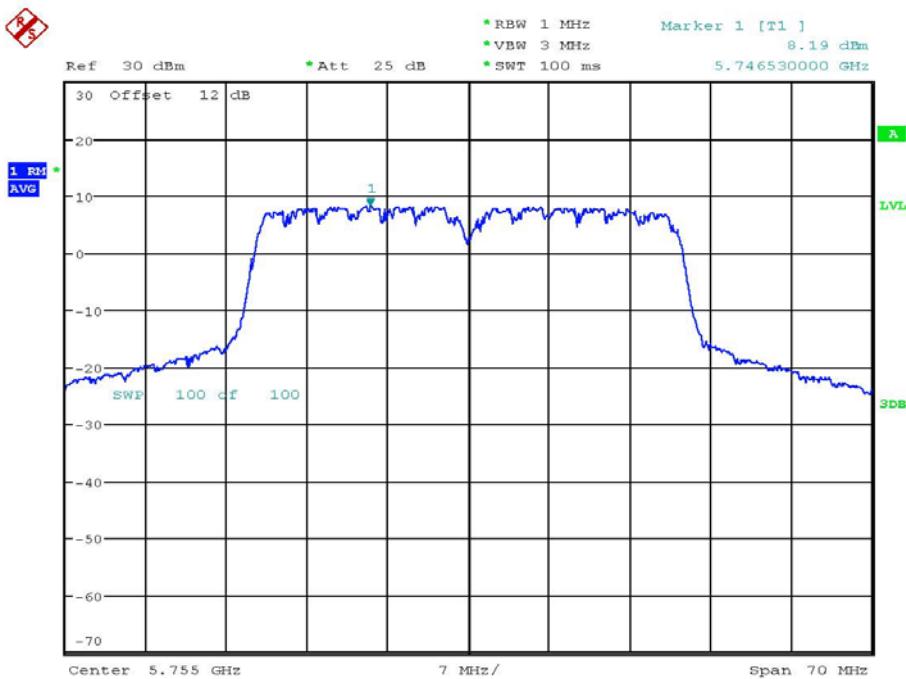
POWER DENSITY CDD ANT2\_VHT20CH157  
Date: 4.FEB.2015 19:24:36



POWER DENSITY CDD ANT2\_VHT20CH165  
Date: 4.FEB.2015 19:19:28

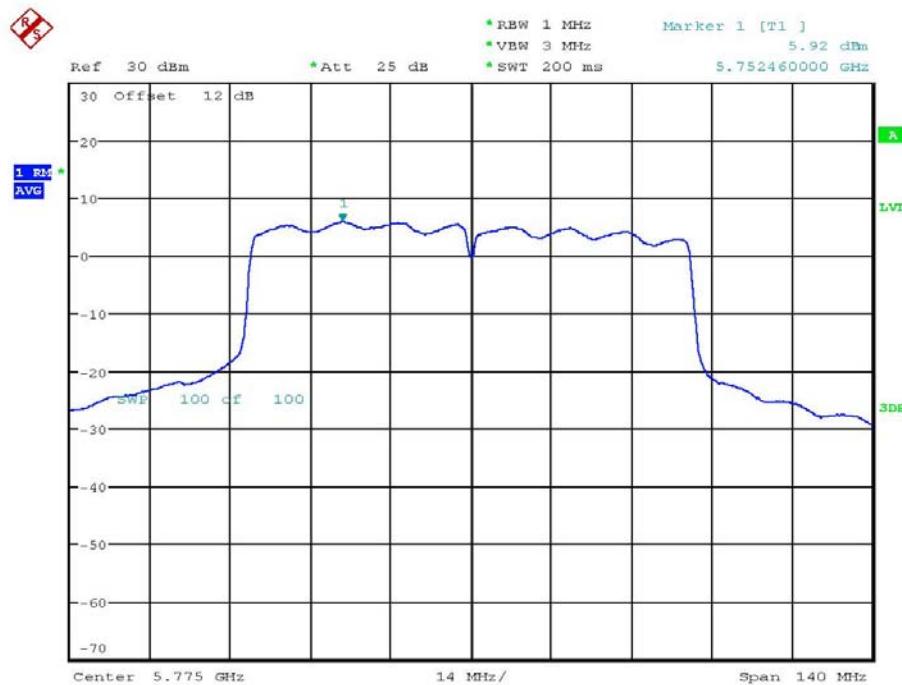
# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



POWER DENSITY CDD ANT2\_VHT40CH159  
Date: 4.FEB.2015 19:37:56

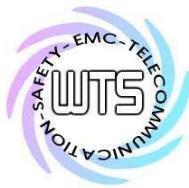
Registration number: W6M21411-14659-C-54  
FCC ID: ZTT-REC33A



POWER DENSITY CDD ANT2\_VHT80CH155  
Date: 4.FEB.2015 19:42:48

## Band 1

ANT0	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	3.690	5.272	9.016	5.67	7.22	9.55
802.11n 40MHz	3.864	--	4.710	5.87	--	6.73
802.11ac	2.244	--	--	3.51	--	--
ANT1	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	2.761	3.581	4.102	4.41	5.54	6.13
802.11n 40MHz	4.477	--	3.631	6.51	--	5.60
802.11ac	2.600	--	--	4.15	--	--
ANT2	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	2.748	3.428	5.082	4.39	5.35	7.06
802.11n 40MHz	2.377	--	2.773	3.76	--	4.43
802.11ac	1.742	--	--	2.41	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	9.199	12.281	18.20	9.64	10.89	12.60
802.11n 40MHz	10.718	--	11.114	10.30	--	10.46
802.11ac	6.586	--	--	8.19	--	--



# Worldwide Testing Services(Taiwan) Co., Ltd.

Registration number: W6M21411-14659-C-54

FCC ID: ZTT-REC33A

## Band 4

ANT0	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	7.551	7.063	6.823	8.78	8.49	8.34
802.11n 40MHz	7.161	--	6.871	8.55	--	8.37
802.11ac	3.673	--	--	5.65	--	--
ANT1	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	2.028	2.649	2.655	3.07	4.23	4.24
802.11n 40MHz	4.335	--	4.710	6.37	--	6.73
802.11ac	1.349	--	--	1.30	--	--
ANT2	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	5.346	4.819	3.508	7.28	6.83	5.45
802.11n 40MHz	6.592	--	5.715	8.19	--	7.57
802.11ac	3.908	--	--	5.92	--	--
Combine	mW			dBm		
	Ch Low	Ch Mid	Ch High	Ch Low	Ch Mid	Ch High
802.11n 20MHz	14.925	14.531	12.986	11.74	11.62	11.14
802.11n 40MHz	18.088	--	17.296	12.57	--	12.38
802.11ac	8.930	--	--	9.51	--	--

Test equipment used: ETSTW-RE 055, ETSTW-RE 050