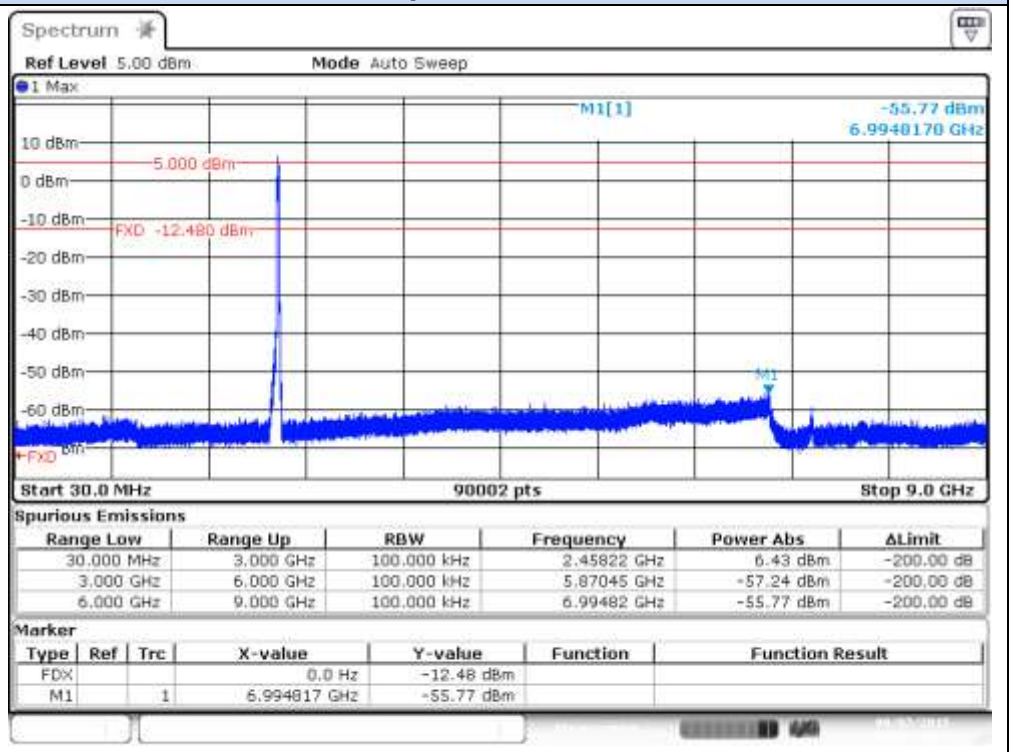
802.11n20, HT8 (MIMO) – Chain B, CH11

Cond Spur, 30MHz – 9GHz



Spurious Emissions

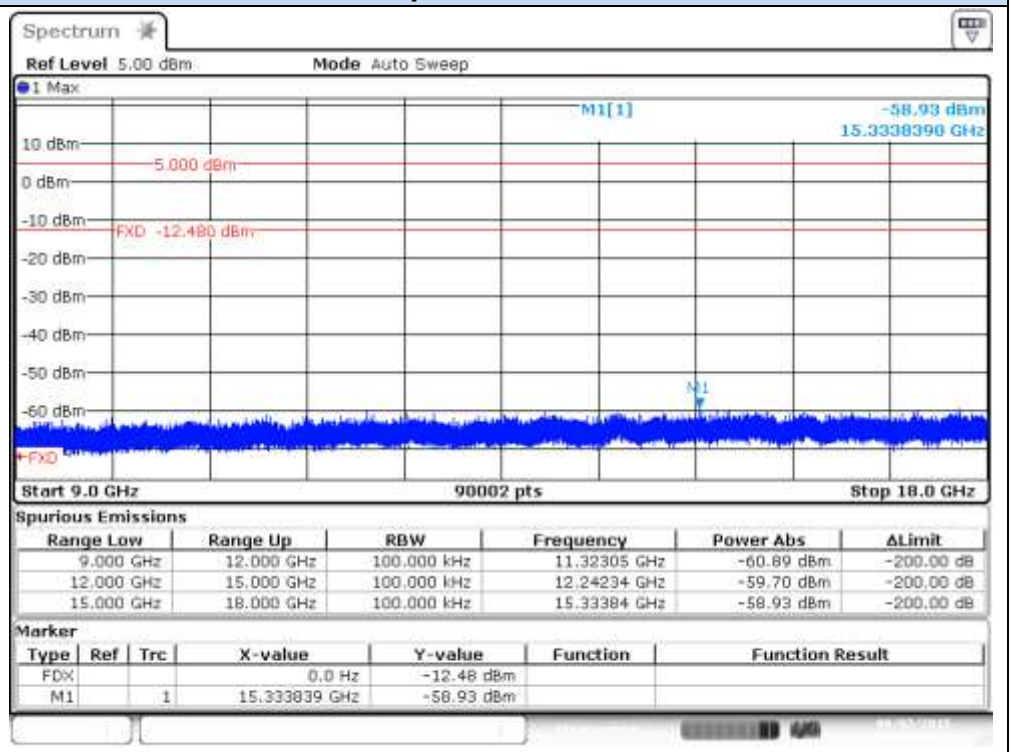
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.45822 GHz	6.43 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	5.87045 GHz	-57.24 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	6.99482 GHz	-55.77 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-12.48 dBm		
M1		1	6.994817 GHz	-55.77 dBm		

Date: 7.SEP.2015 17:28:14

Cond Spur, 9GHz – 18GHz



Spurious Emissions

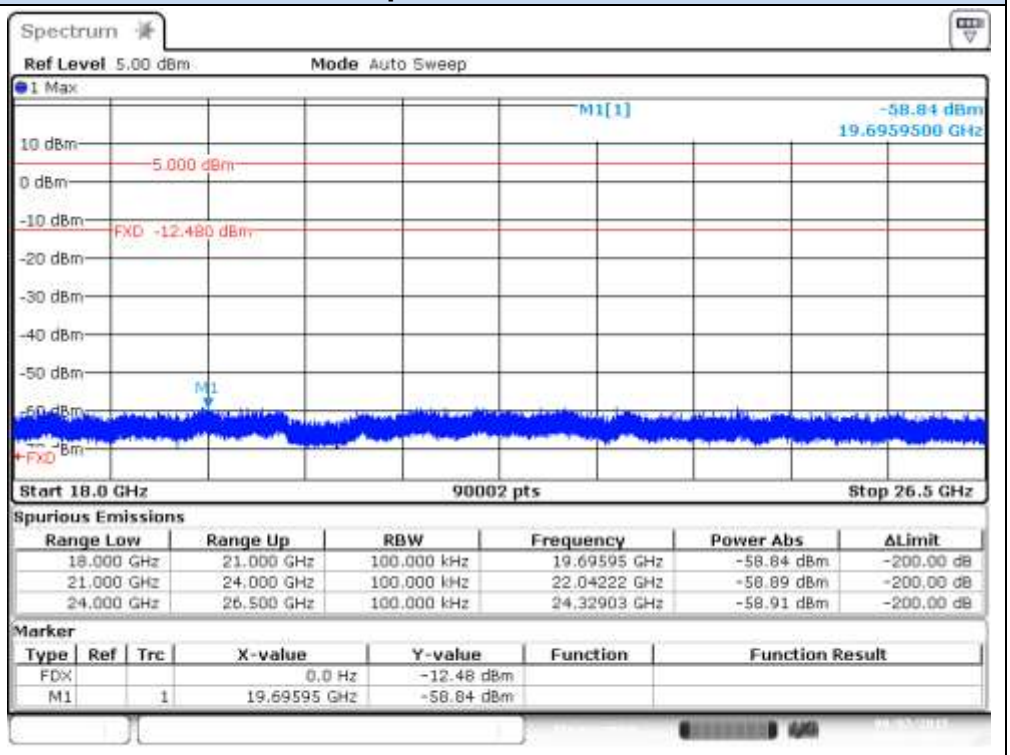
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	11.32305 GHz	-60.89 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	12.24234 GHz	-59.70 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	15.33384 GHz	-58.93 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-12.48 dBm		
M1		1	15.333839 GHz	-58.93 dBm		

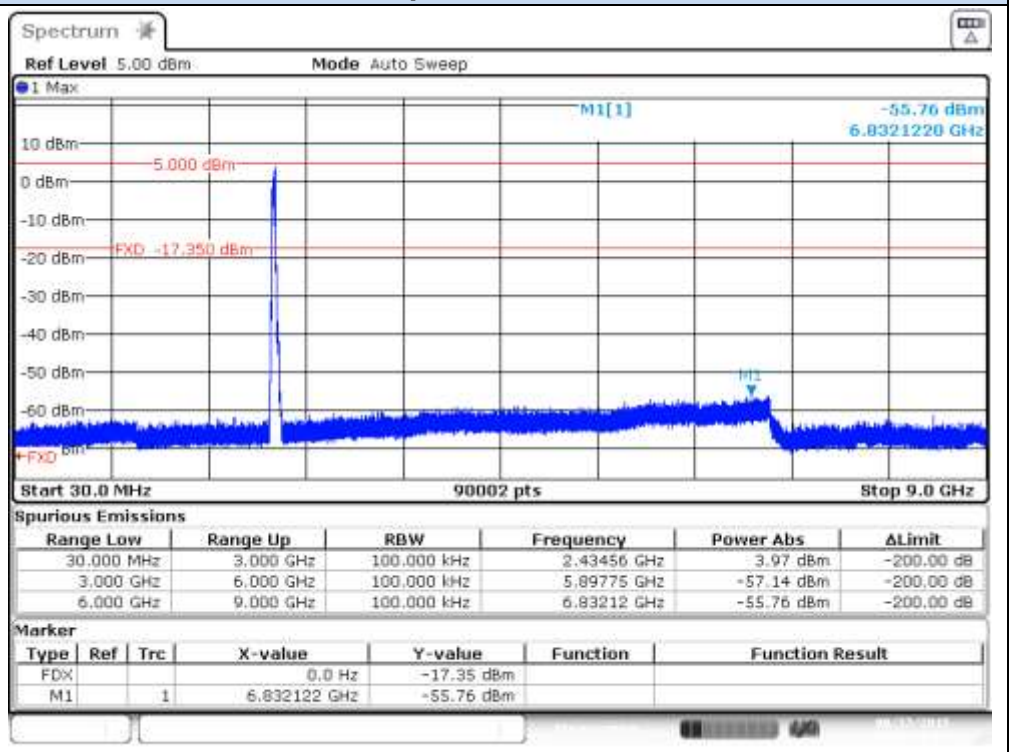
Date: 7.SEP.2015 17:29:04

Cond Spur, 18GHz – 26.5GHz



802.11n40, HT0 (SISO) – Chain A, CH3F

Cond Spur, 30MHz – 9GHz



Spurious Emissions

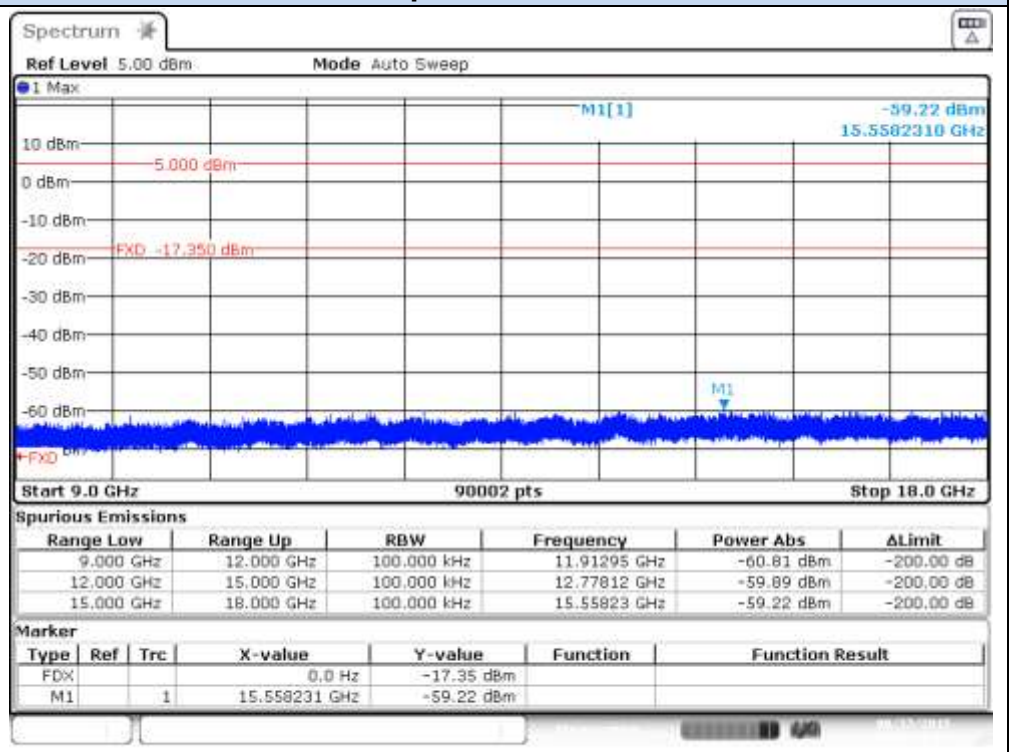
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.43456 GHz	3.97 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	5.89775 GHz	-57.14 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	6.83212 GHz	-55.76 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-17.35 dBm		
M1		1	6.832122 GHz	-55.76 dBm		

Date: 27.AUG.2015 17:41:51

Cond Spur, 9GHz – 18GHz



Spurious Emissions

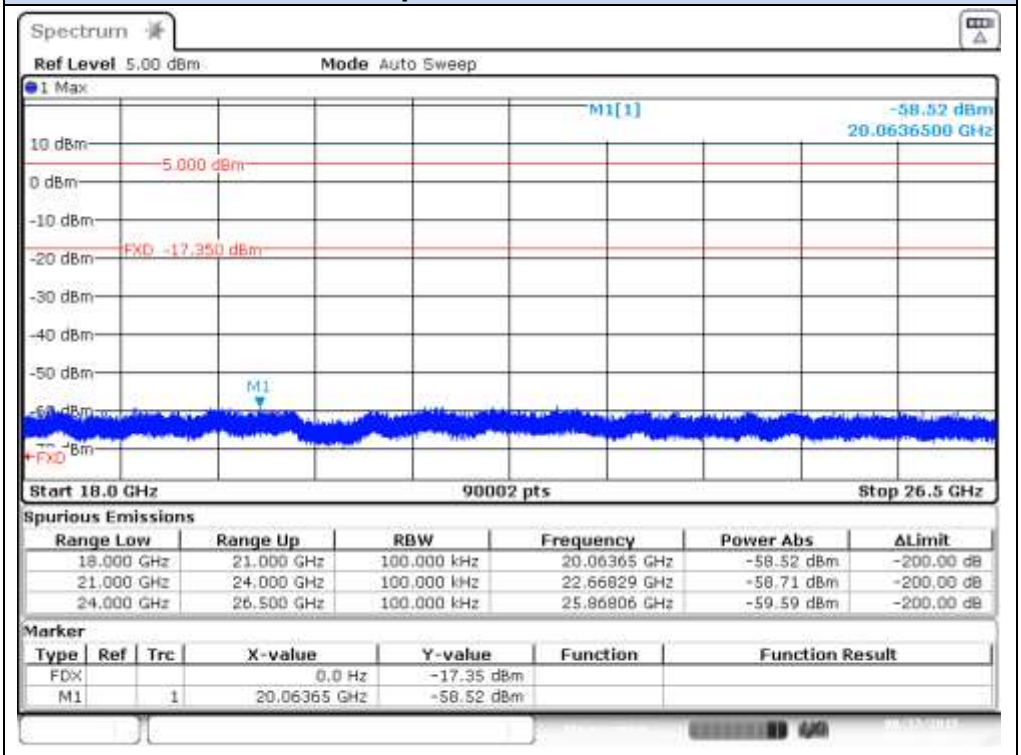
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	11.91295 GHz	-60.81 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	12.77812 GHz	-59.89 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	15.55823 GHz	-59.22 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-17.35 dBm		
M1		1	15.558231 GHz	-59.22 dBm		

Date: 27.AUG.2015 17:43:31

Cond Spur, 18GHz – 26.5GHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	20.06365 GHz	-58.52 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	22.66829 GHz	-58.71 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	25.86806 GHz	-59.59 dBm	-200.00 dB

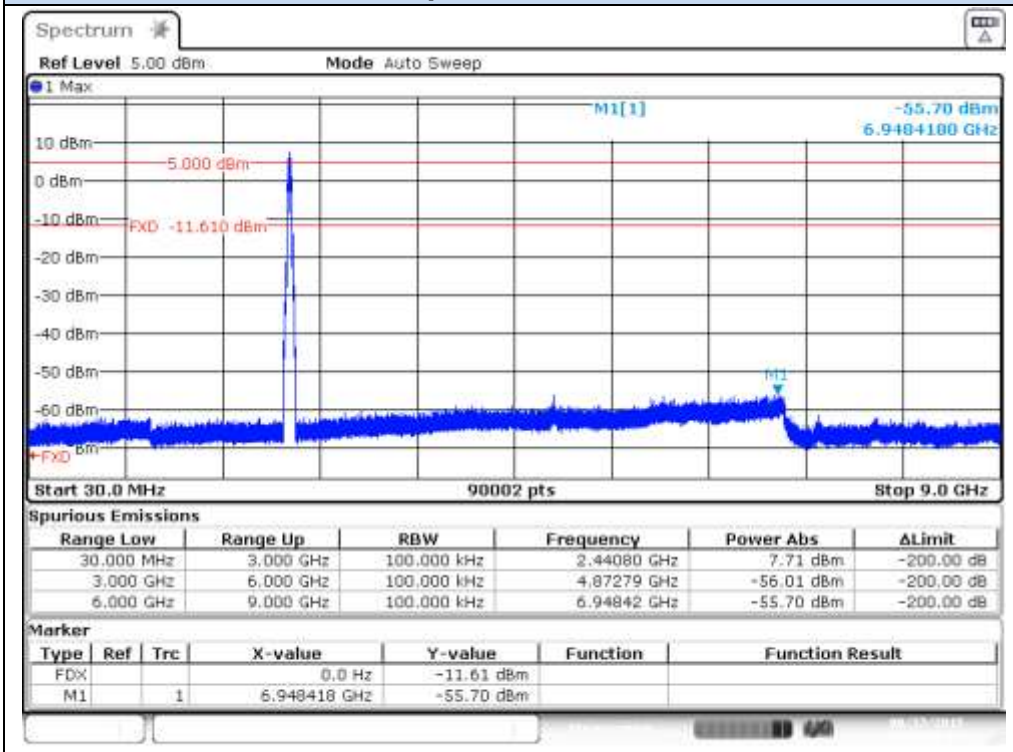
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-17.35 dBm		
M1		1	20.06365 GHz	-58.52 dBm		

Date: 27.AUG.2015 17:44:14

802.11n40, HT0 (SISO) – Chain A, CH6F

Cond Spur, 30MHz – 9GHz



Spurious Emissions

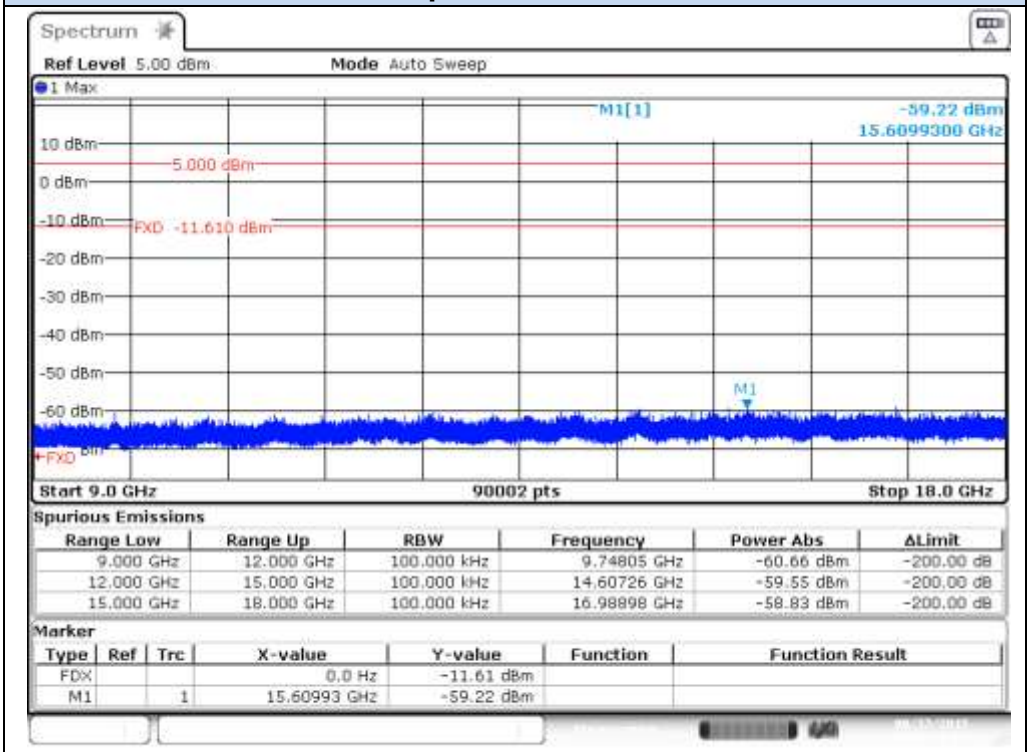
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.44080 GHz	7.71 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	4.87279 GHz	-56.01 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	6.94842 GHz	-55.70 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-11.61 dBm		
M1		1	6.948418 GHz	-55.70 dBm		

Date: 27.AUG.2015 17:46:09

Cond Spur, 9GHz – 18GHz



Spurious Emissions

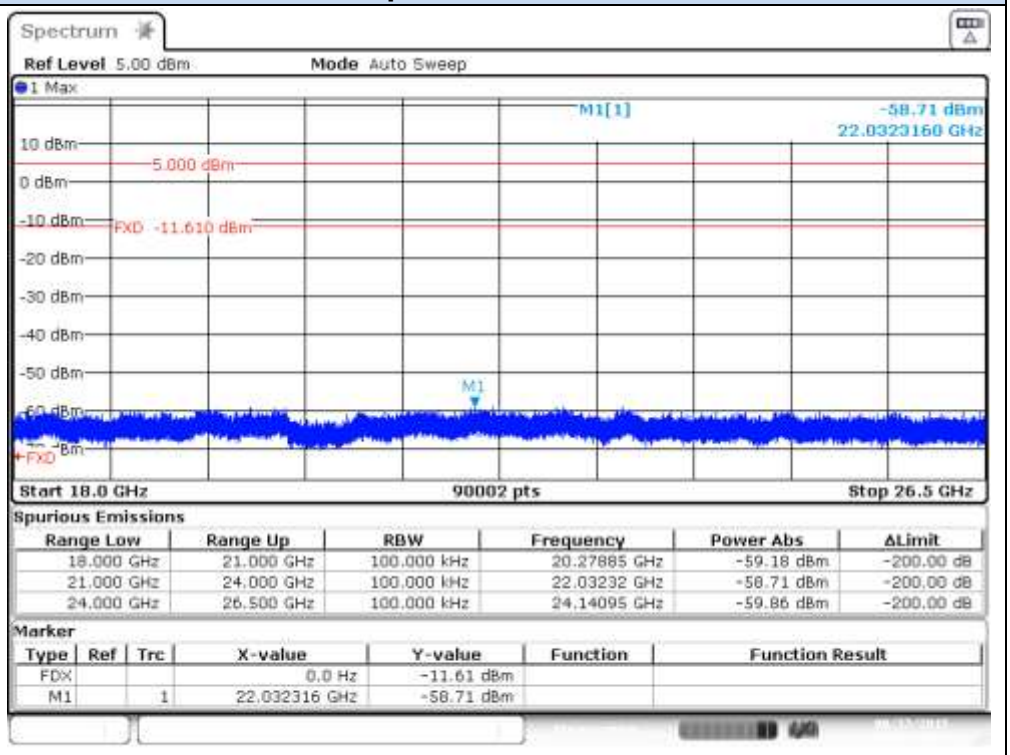
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	9.74805 GHz	-60.66 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	14.60726 GHz	-59.55 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	16.98898 GHz	-58.83 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-11.61 dBm		
M1		1	15.60993 GHz	-59.22 dBm		

Date: 27.AUG.2015 17:47:11

Cond Spur, 18GHz – 26.5GHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	20.27885 GHz	-59.18 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	22.03232 GHz	-58.71 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	24.14095 GHz	-59.86 dBm	-200.00 dB

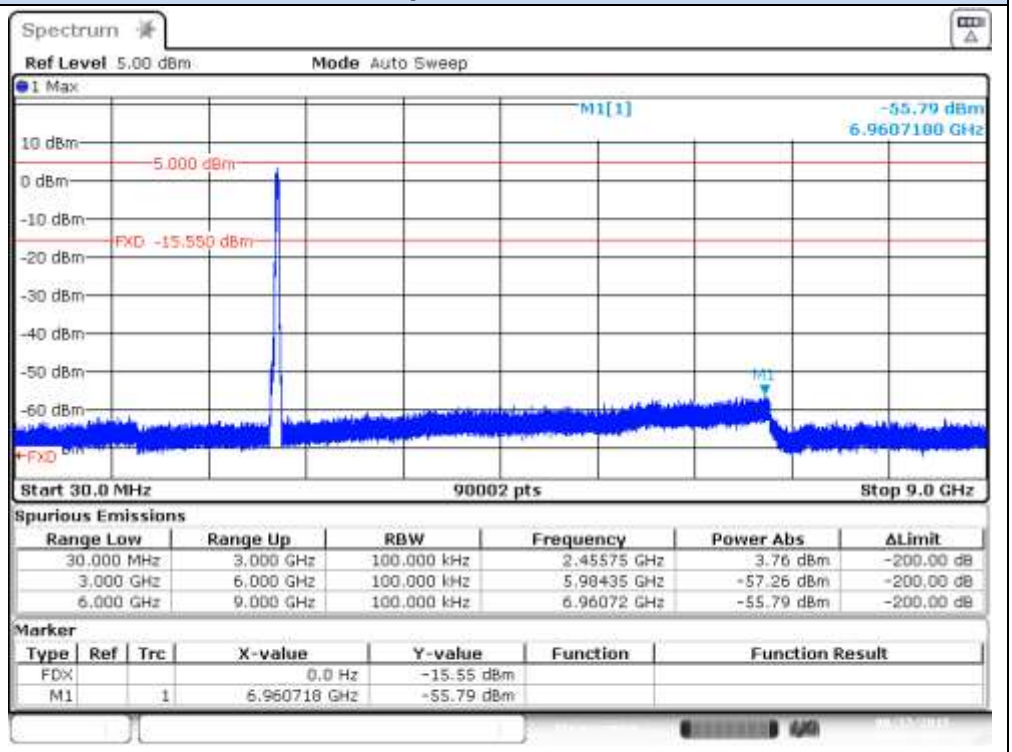
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-11.61 dBm		
M1		1	22.032316 GHz	-58.71 dBm		

Date: 27.AUG.2015 17:48:45

802.11n40, HT0 (SISO) – Chain A, CH9F

Cond Spur, 30MHz – 9GHz



Spurious Emissions

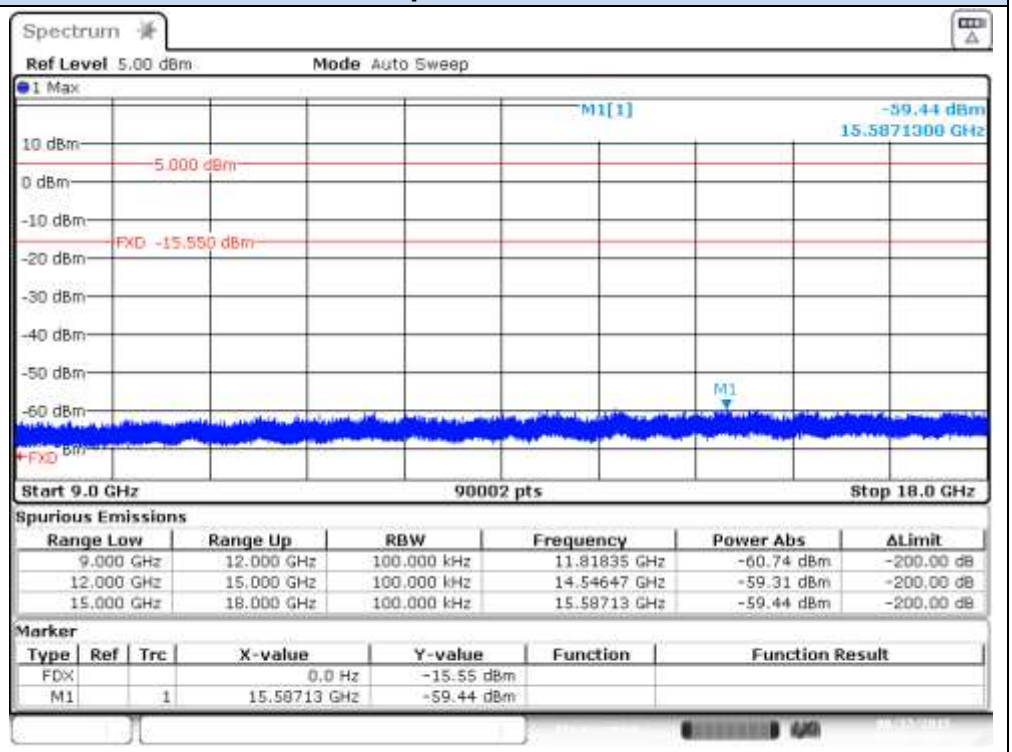
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.45575 GHz	3.76 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	5.98435 GHz	-57.26 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	6.96072 GHz	-55.79 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-15.55 dBm		
M1		1	6.960718 GHz	-55.79 dBm		

Date: 27.AUG.2015 17:51:45

Cond Spur, 9GHz – 18GHz



Spurious Emissions

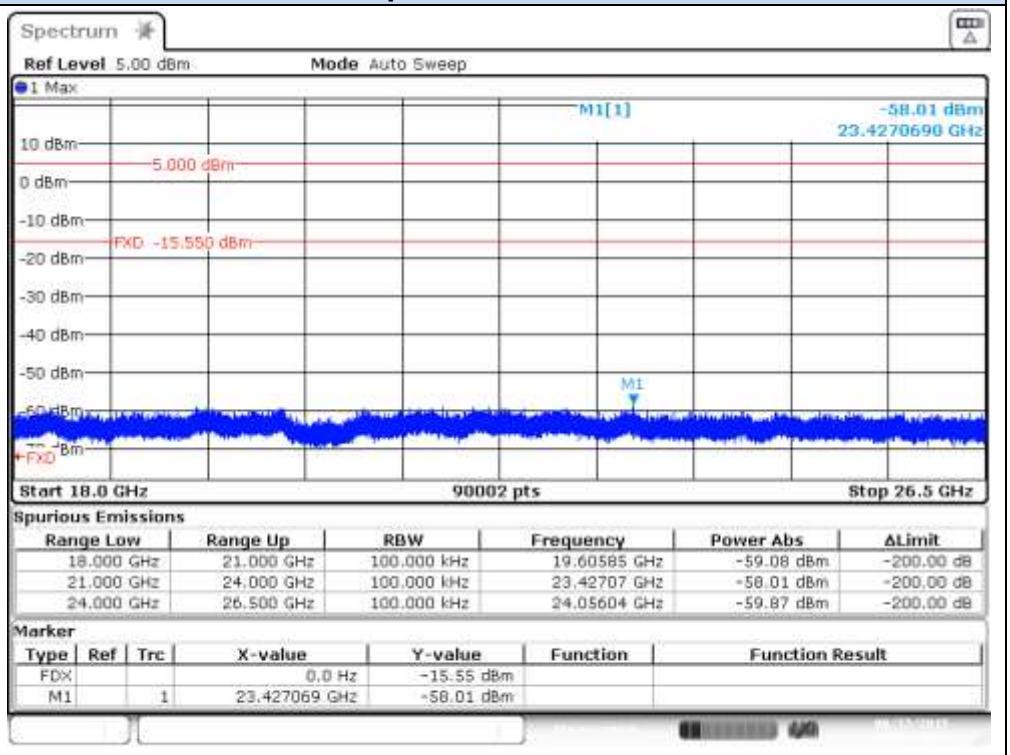
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	11.81835 GHz	-60.74 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	14.54647 GHz	-59.31 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	15.58713 GHz	-59.44 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-15.55 dBm		
M1		1	15.58713 GHz	-59.44 dBm		

Date: 27.AUG.2015 17:51:03

Cond Spur, 18GHz – 26.5GHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	19.60585 GHz	-59.08 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	23.42707 GHz	-58.01 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	24.05604 GHz	-59.87 dBm	-200.00 dB

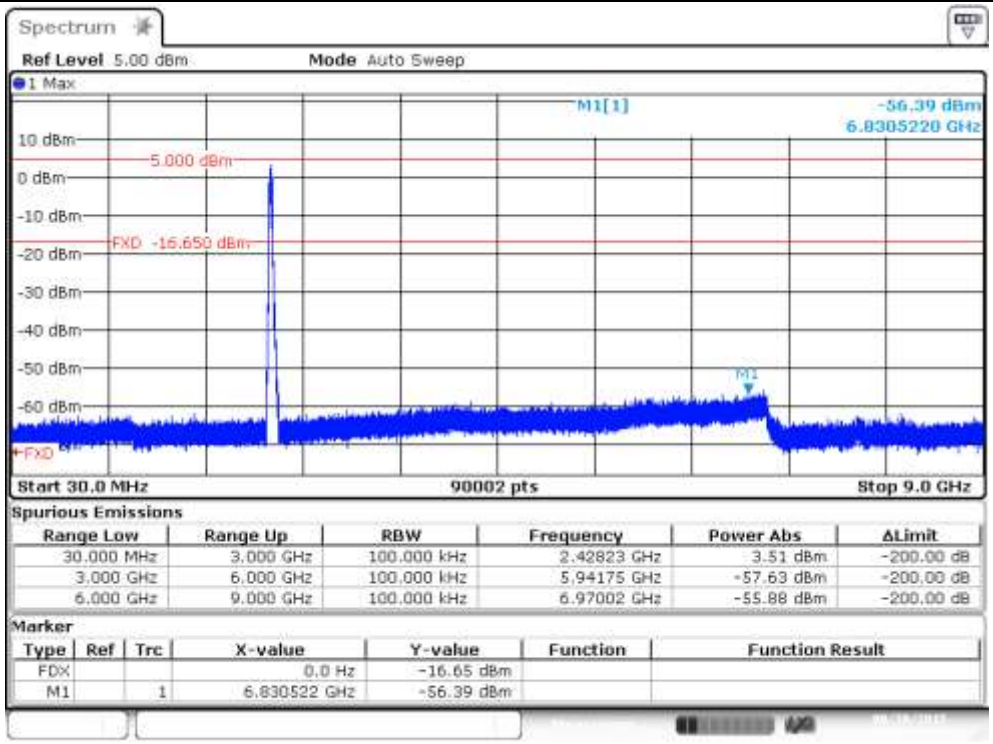
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-15.55 dBm		
M1		1	23.427069 GHz	-58.01 dBm		

Date: 27.AUG.2015 17:52:32

802.11n40, HT0 (SISO) – Chain B, CH3F

Cond Spur, 30MHz – 9GHz



Spurious Emissions

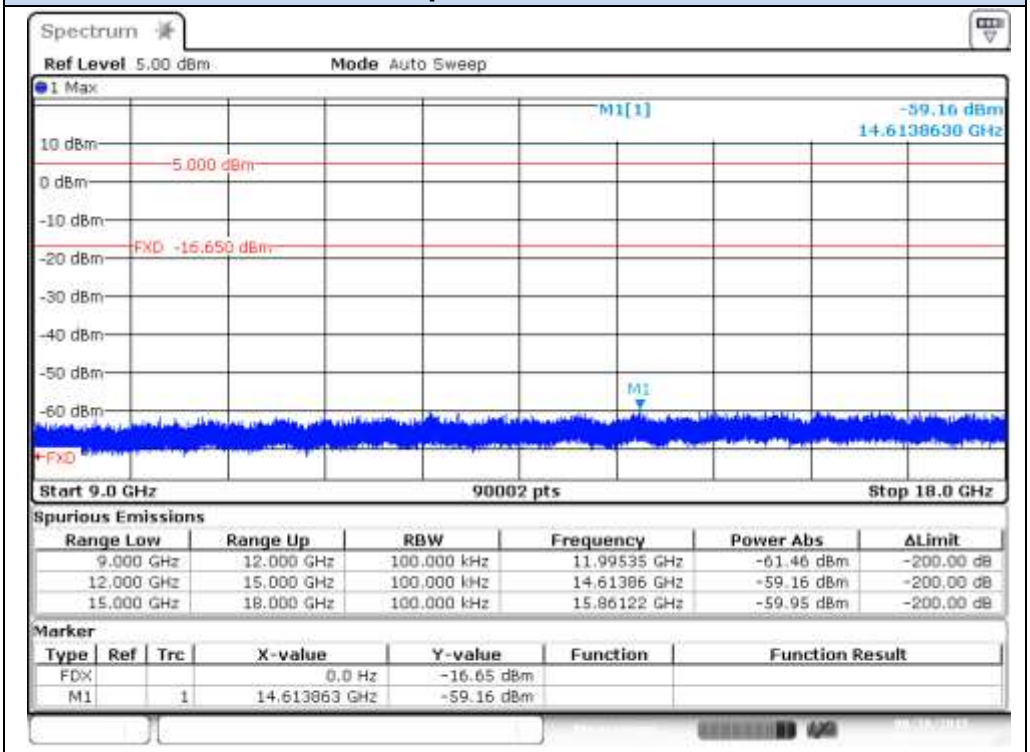
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.42823 GHz	3.51 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	5.94175 GHz	-57.63 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	6.97002 GHz	-55.88 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-16.65 dBm		
M1		1	6.830522 GHz	-56.39 dBm		

Date: 28.AUG.2015 11:22:36

Cond Spur, 9GHz – 18GHz



Spurious Emissions

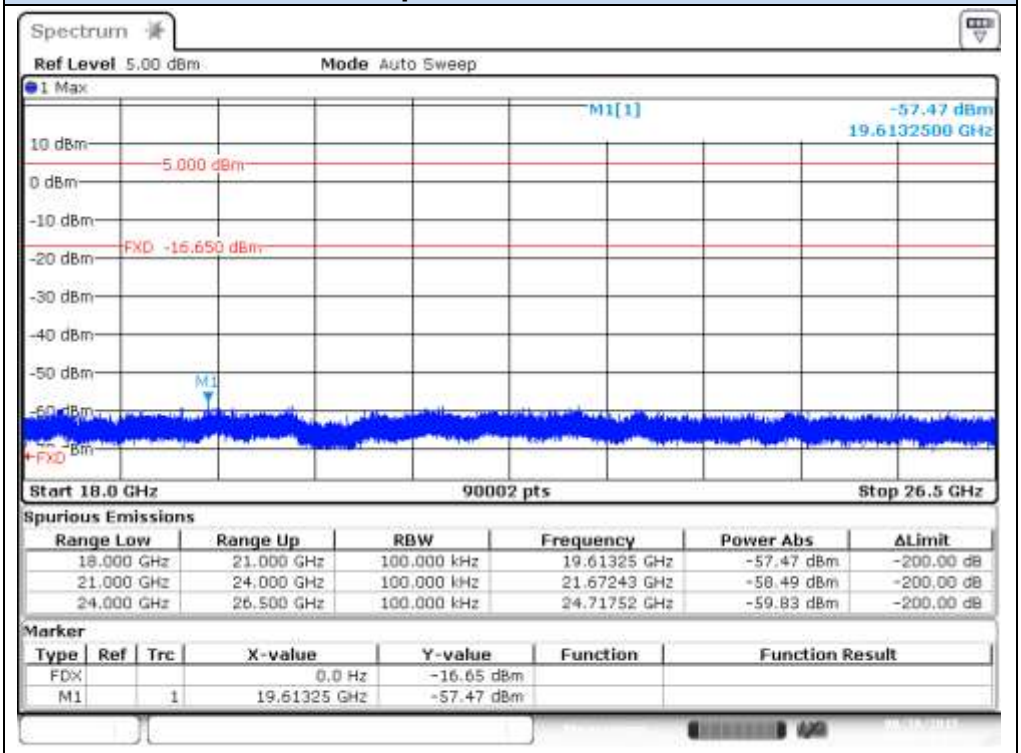
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	11.99535 GHz	-61.46 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	14.61386 GHz	-59.16 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	15.86122 GHz	-59.95 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-16.65 dBm		
M1		1	14.613863 GHz	-59.16 dBm		

Date: 28.AUG.2015 11:23:12

Cond Spur, 18GHz – 26.5GHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	19.61325 GHz	-57.47 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	21.67243 GHz	-58.49 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	24.71752 GHz	-59.83 dBm	-200.00 dB

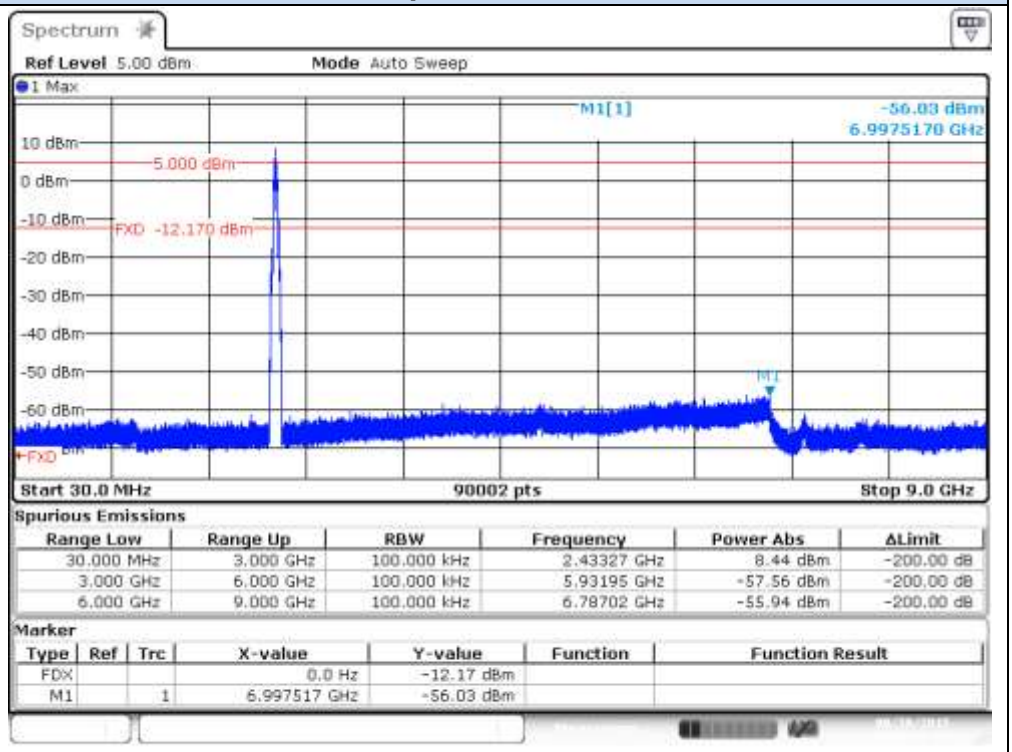
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-16.65 dBm		
M1		1	19.61325 GHz	-57.47 dBm		

Date: 28.AUG.2015 11:24:24

802.11n40, HT0 (SISO) – Chain B, CH6F

Cond Spur, 30MHz – 9GHz



Spurious Emissions

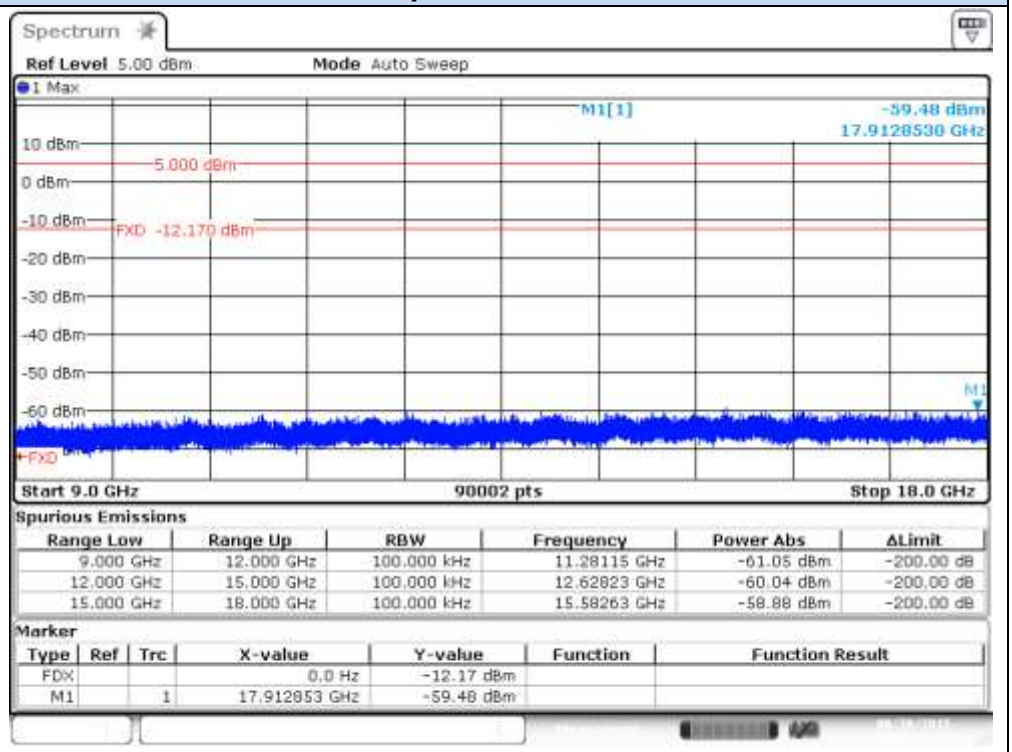
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.43327 GHz	8.44 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	5.93195 GHz	-57.56 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	6.78702 GHz	-55.94 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-12.17 dBm		
M1		1	6.997517 GHz	-56.03 dBm		

Date: 28.AUG.2015 11:25:28

Cond Spur, 9GHz – 18GHz



Spurious Emissions

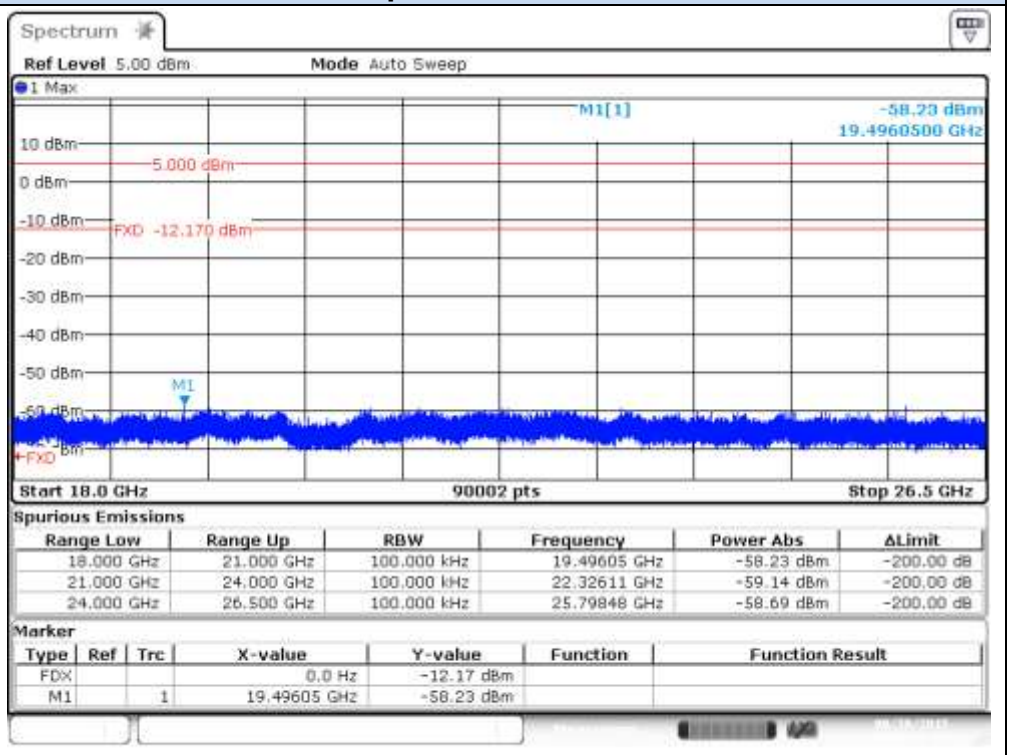
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	11.28115 GHz	-61.05 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	12.62823 GHz	-60.04 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	15.58263 GHz	-58.88 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-12.17 dBm		
M1		1	17.912853 GHz	-59.48 dBm		

Date: 28.AUG.2015 11:26:07

Cond Spur, 18GHz – 26.5GHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	19.49605 GHz	-58.23 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	22.32611 GHz	-59.14 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	25.79848 GHz	-58.69 dBm	-200.00 dB

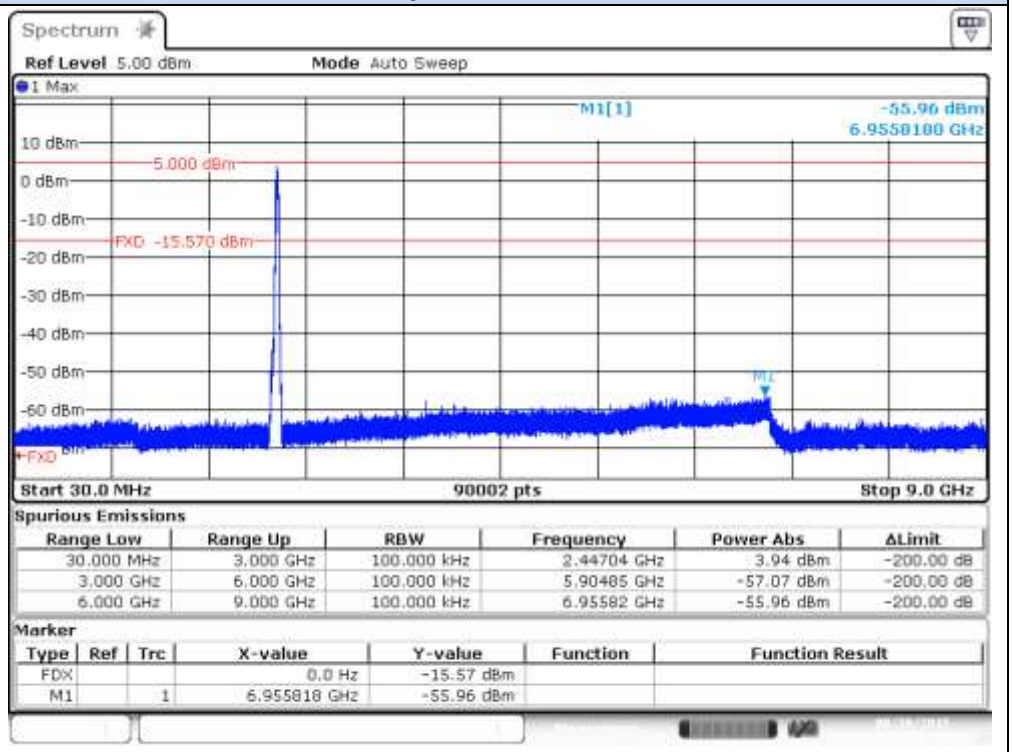
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-12.17 dBm		
M1		1	19.49605 GHz	-58.23 dBm		

Date: 28.AUG.2015 11:26:36

802.11n40, HT0 (SISO) – Chain B, CH9F

Cond Spur, 30MHz – 9GHz



Spurious Emissions

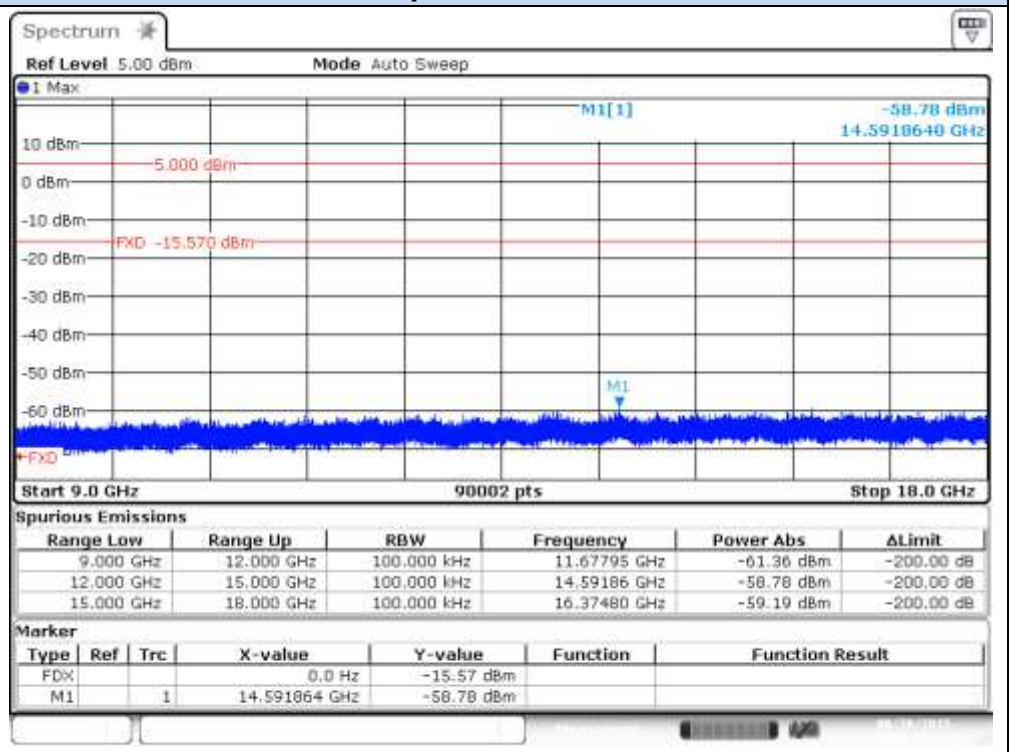
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.44704 GHz	3.94 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	5.90485 GHz	-57.07 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	6.95582 GHz	-55.96 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-15.57 dBm		
M1		1	6.955818 GHz	-55.96 dBm		

Date: 28.AUG.2015 11:28:05

Cond Spur, 9GHz – 18GHz



Spurious Emissions

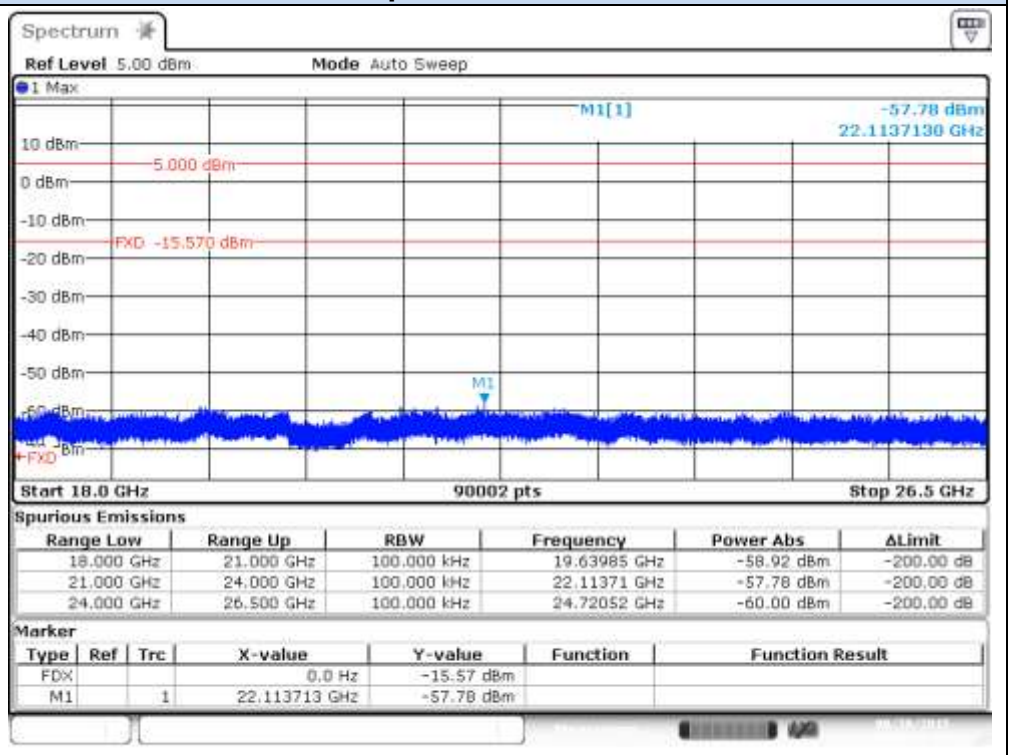
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	11.67795 GHz	-61.36 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	14.59186 GHz	-58.78 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	16.37480 GHz	-59.19 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-15.57 dBm		
M1		1	14.591864 GHz	-58.78 dBm		

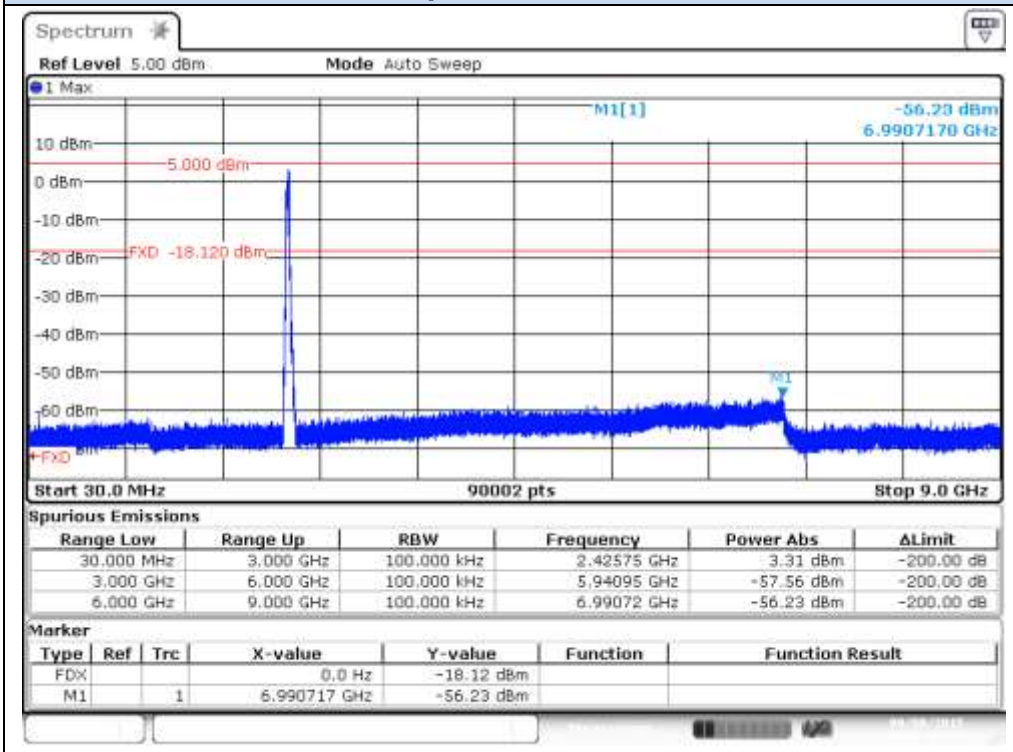
Date: 28.AUG.2015 11:28:40

Cond Spur, 18GHz – 26.5GHz



802.11n40, HT8 (MIMO) – Chain A, CH3F

Cond Spur, 30MHz – 9GHz



Spurious Emissions

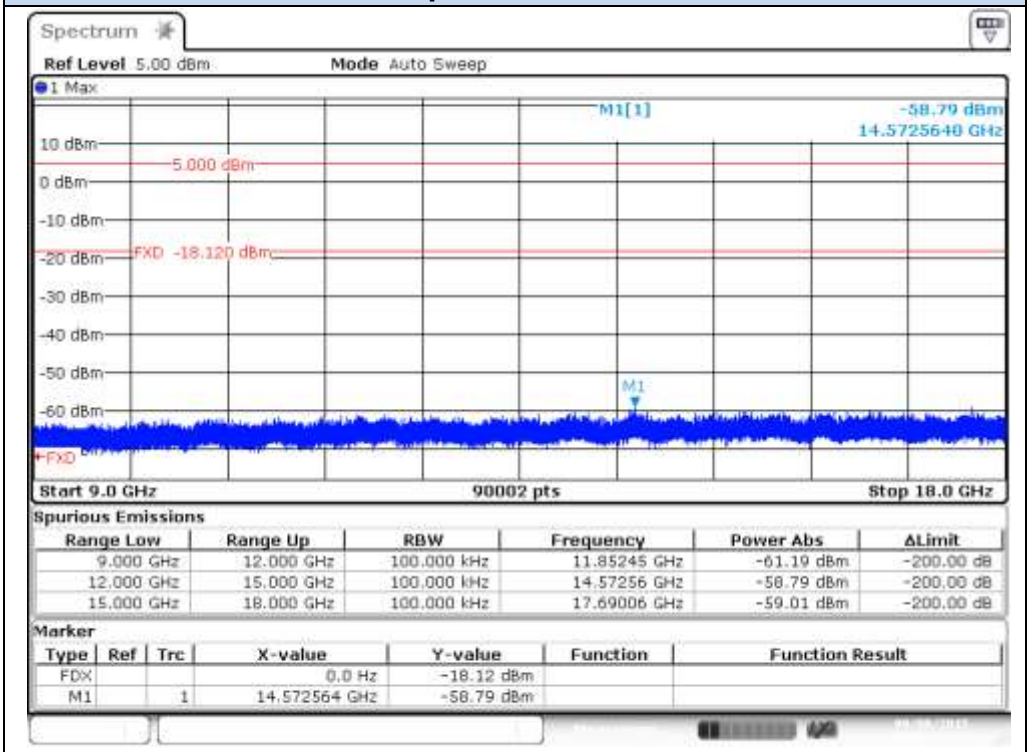
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.42575 GHz	3.31 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	5.94095 GHz	-57.56 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	6.99072 GHz	-56.23 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-18.12 dBm		
M1		1	6.990717 GHz	-56.23 dBm		

Date: 8.SEP.2015 10:09:46

Cond Spur, 9GHz – 18GHz



Spurious Emissions

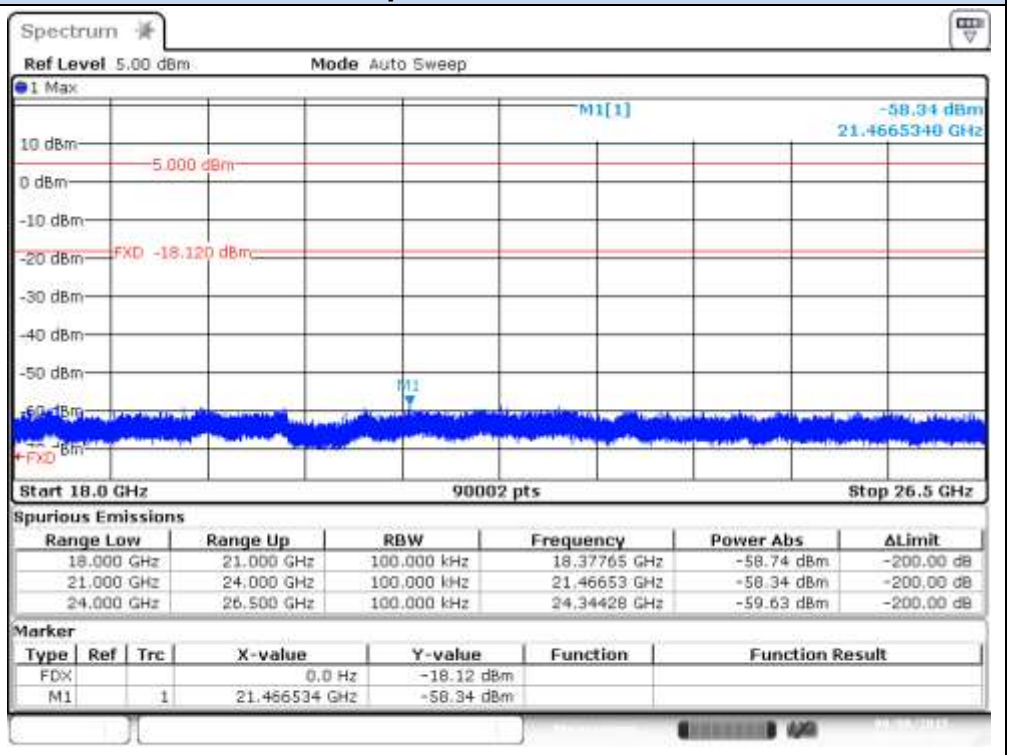
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	11.85245 GHz	-61.19 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	14.57256 GHz	-58.79 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	17.69006 GHz	-59.01 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-18.12 dBm		
M1		1	14.572564 GHz	-58.79 dBm		

Date: 8.SEP.2015 10:10:42

Cond Spur, 18GHz – 26.5GHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	18.37765 GHz	-58.74 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	21.46653 GHz	-58.34 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	24.34428 GHz	-59.63 dBm	-200.00 dB

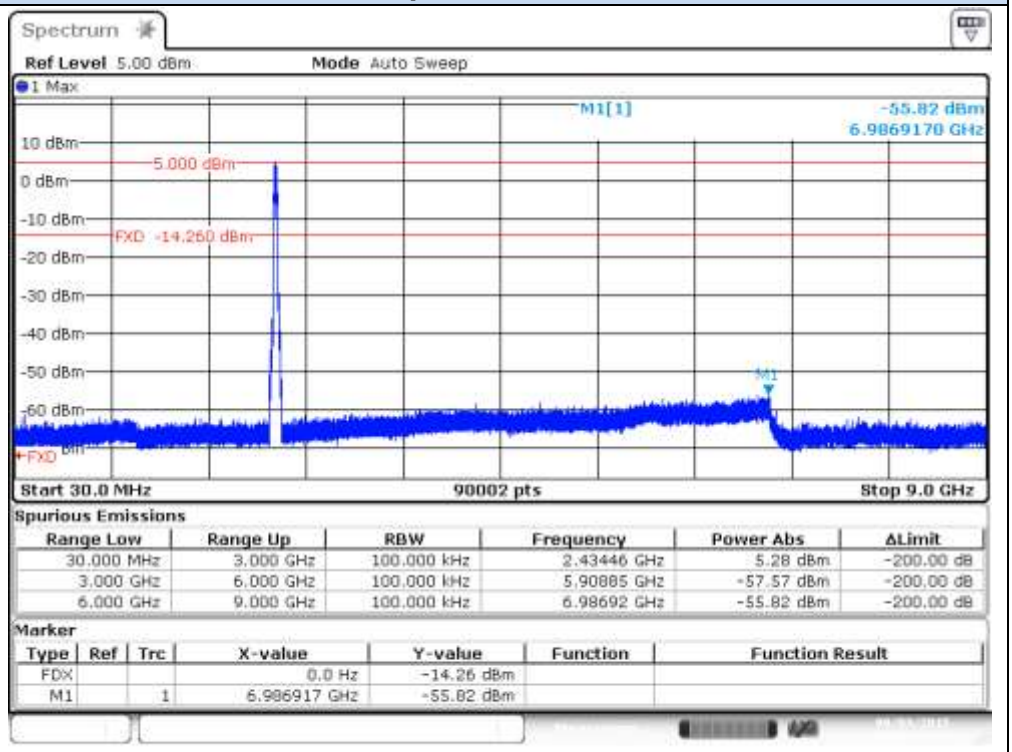
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-18.12 dBm		
M1		1	21.466534 GHz	-58.34 dBm		

Date: 8.SEP.2015 10:11:58

802.11n40, HT8 (MIMO) – Chain A, CH6F

Cond Spur, 30MHz – 9GHz



Spurious Emissions

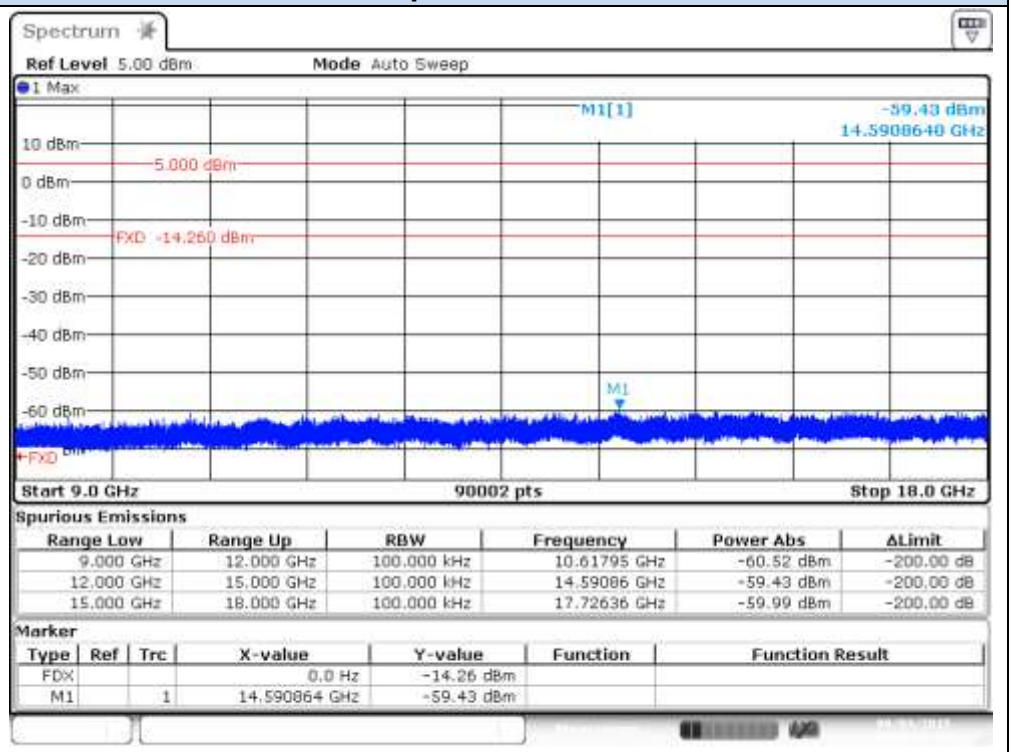
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.43446 GHz	5.28 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	5.90885 GHz	-57.57 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	6.98692 GHz	-55.82 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-14.26 dBm		
M1		1	6.986917 GHz	-55.82 dBm		

Date: 3.SEP.2015 11:44:32

Cond Spur, 9GHz – 18GHz



Spurious Emissions

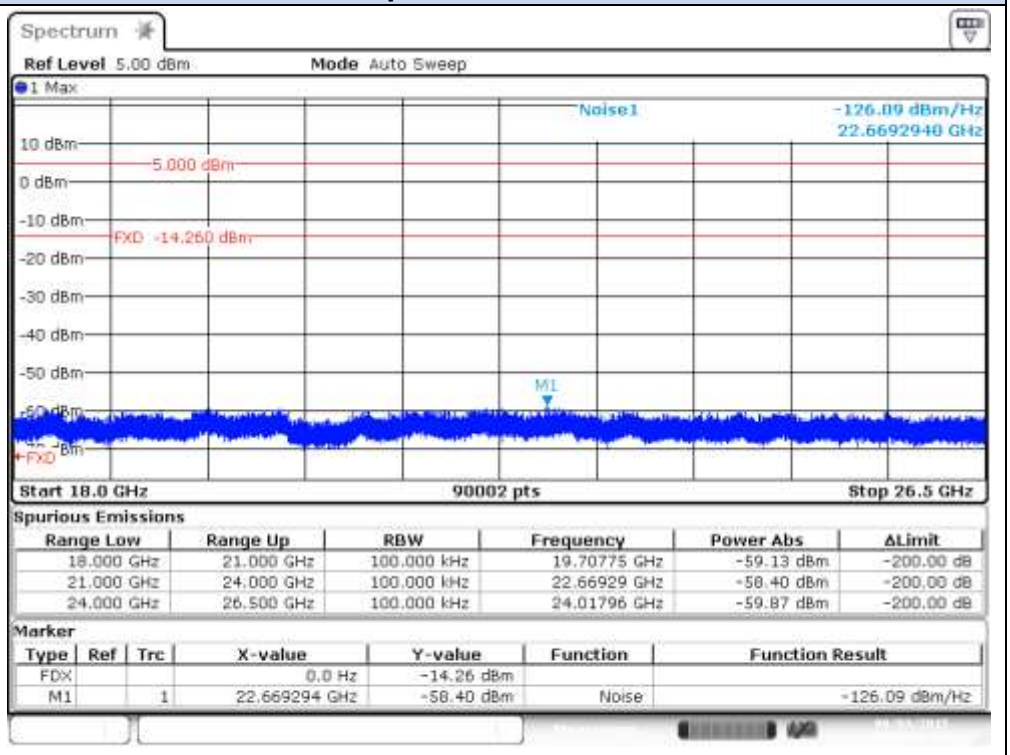
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	10.61795 GHz	-60.52 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	14.59086 GHz	-59.43 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	17.72636 GHz	-59.99 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-14.26 dBm		
M1		1	14.590864 GHz	-59.43 dBm		

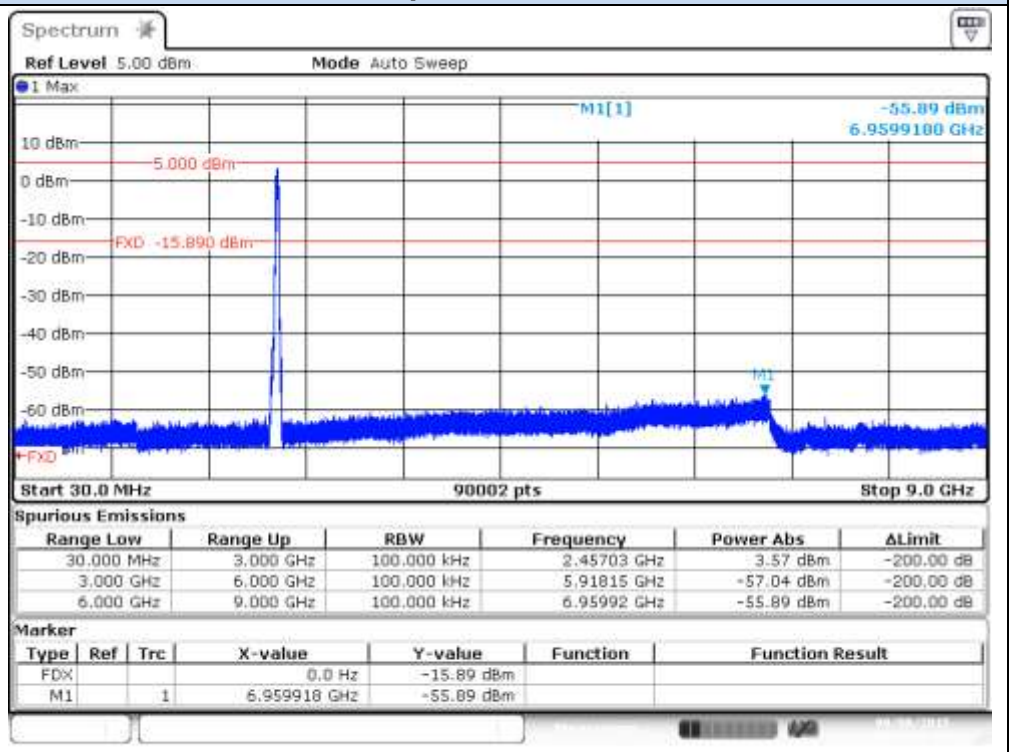
Date: 3.SEP.2015 11:45:19

Cond Spur, 18GHz – 26.5GHz



802.11n40, HT8 (MIMO) – Chain A, CH9F

Cond Spur, 30MHz – 9GHz



Spurious Emissions

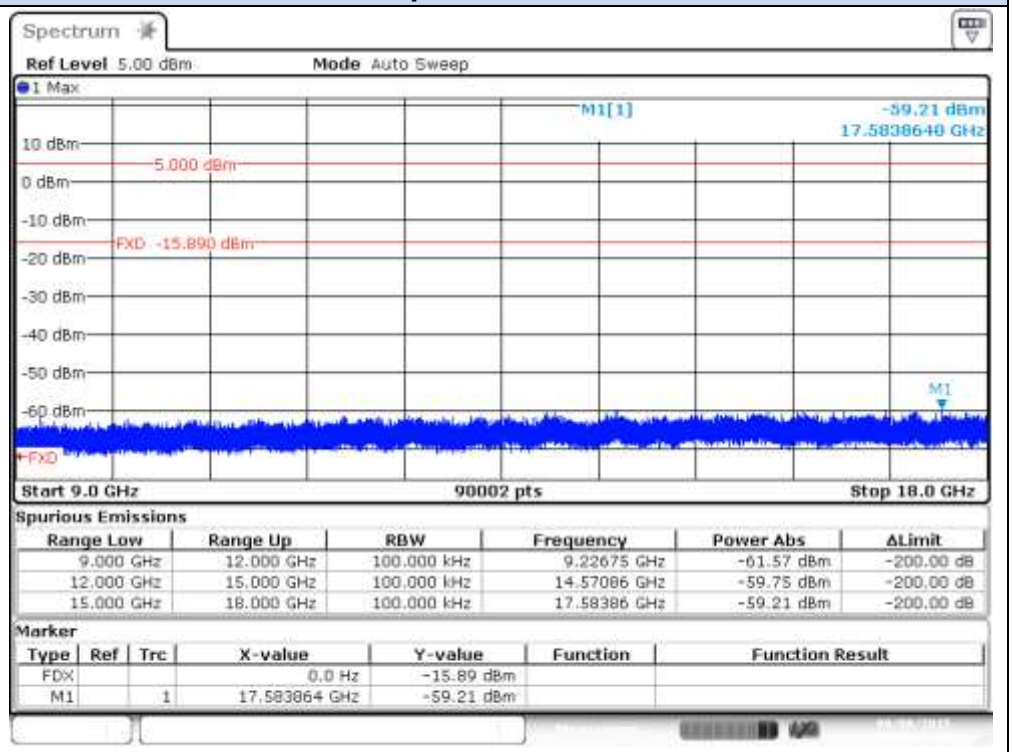
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.45703 GHz	3.57 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	5.91815 GHz	-57.04 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	6.95992 GHz	-55.89 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-15.89 dBm		
M1		1	6.959918 GHz	-55.89 dBm		

Date: 8.SEP.2015 10:13:33

Cond Spur, 9GHz – 18GHz



Spurious Emissions

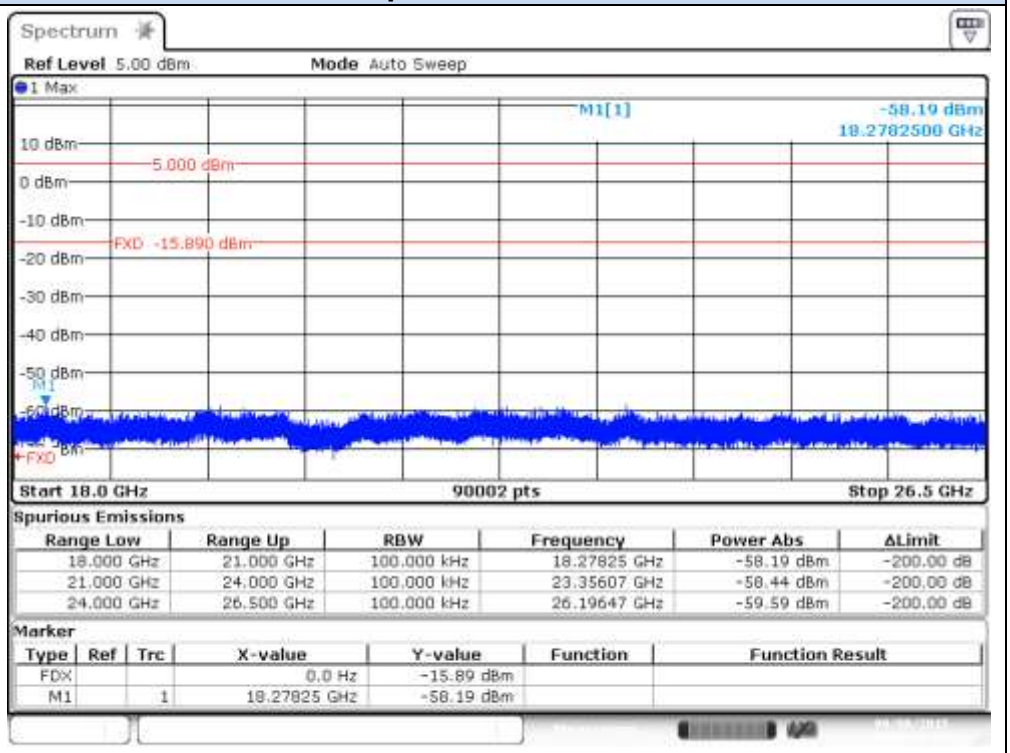
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	9.22675 GHz	-61.57 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	14.57086 GHz	-59.75 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	17.58386 GHz	-59.21 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-15.89 dBm		
M1		1	17.583864 GHz	-59.21 dBm		

Date: 8.SEP.2015 10:14:59

Cond Spur, 18GHz – 26.5GHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	18.27825 GHz	-58.19 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	23.35607 GHz	-58.44 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	26.19647 GHz	-59.59 dBm	-200.00 dB

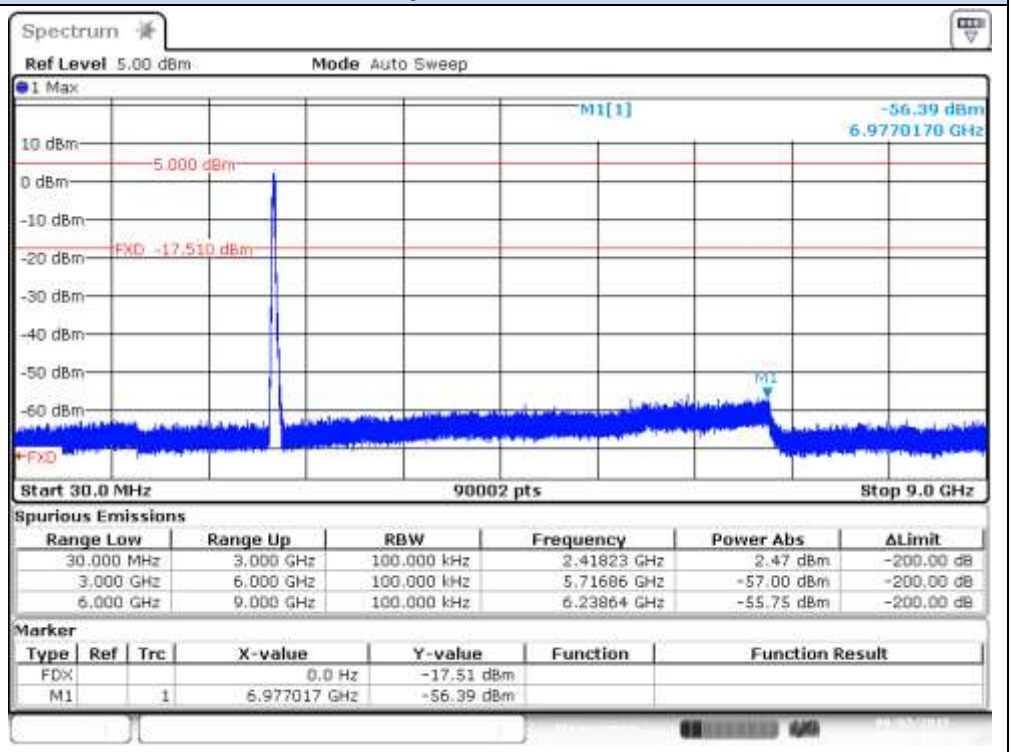
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-15.89 dBm		
M1		1	18.27825 GHz	-58.19 dBm		

Date: 8.SEP.2015 10:15:39

802.11n40, HT8 (MIMO) – Chain B, CH3F

Cond Spur, 30MHz – 9GHz



Spurious Emissions

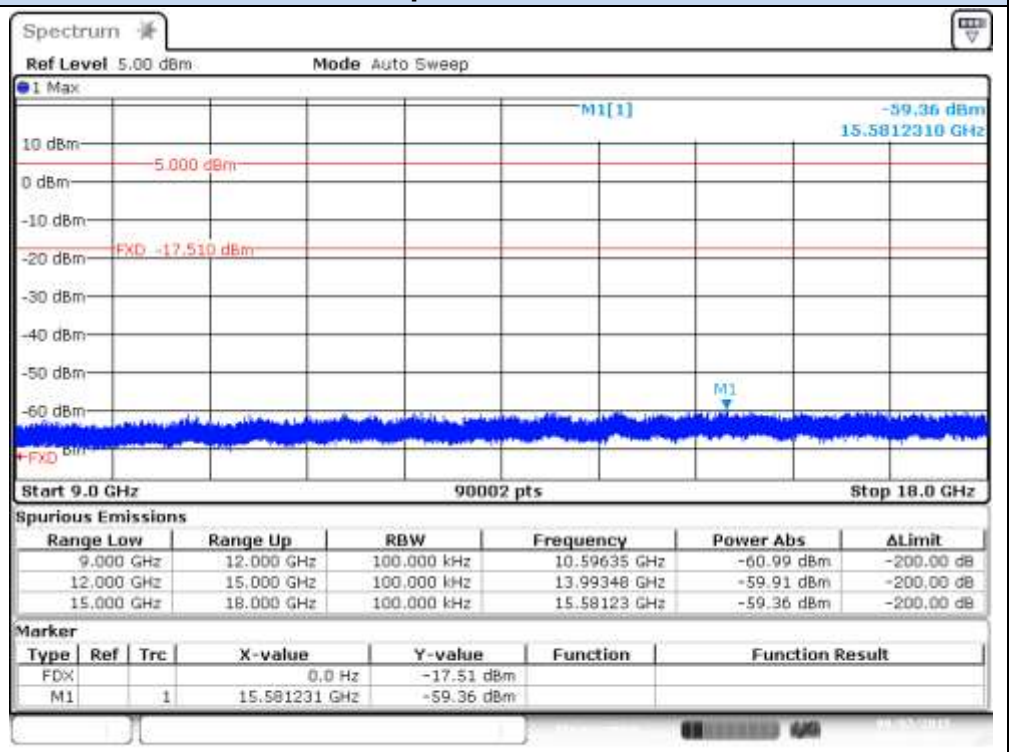
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.41823 GHz	2.47 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	5.71686 GHz	-57.00 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	6.23864 GHz	-55.75 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-17.51 dBm		
M1		1	6.977017 GHz	-56.39 dBm		

Date: 7.SEP.2015 17:40:19

Cond Spur, 9GHz – 18GHz



Spurious Emissions

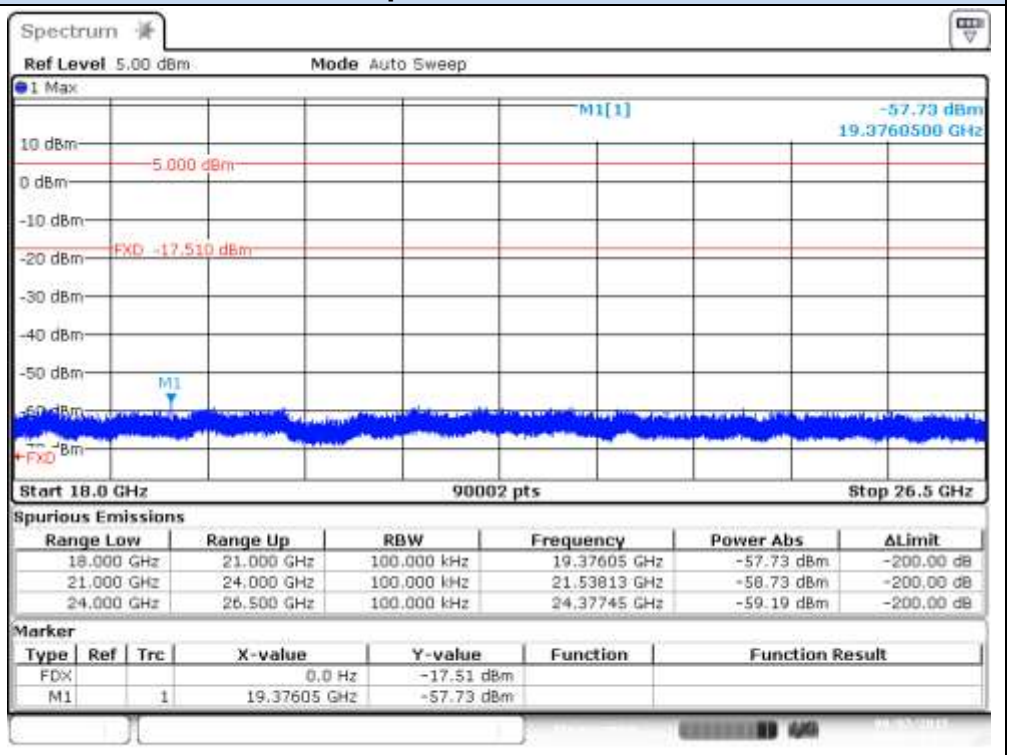
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	10.59635 GHz	-60.99 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	13.99348 GHz	-59.91 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	15.58123 GHz	-59.36 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-17.51 dBm		
M1		1	15.581231 GHz	-59.36 dBm		

Date: 7.SEP.2015 17:41:32

Cond Spur, 18GHz – 26.5GHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	19.37605 GHz	-57.73 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	21.53813 GHz	-58.73 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	24.37745 GHz	-59.19 dBm	-200.00 dB

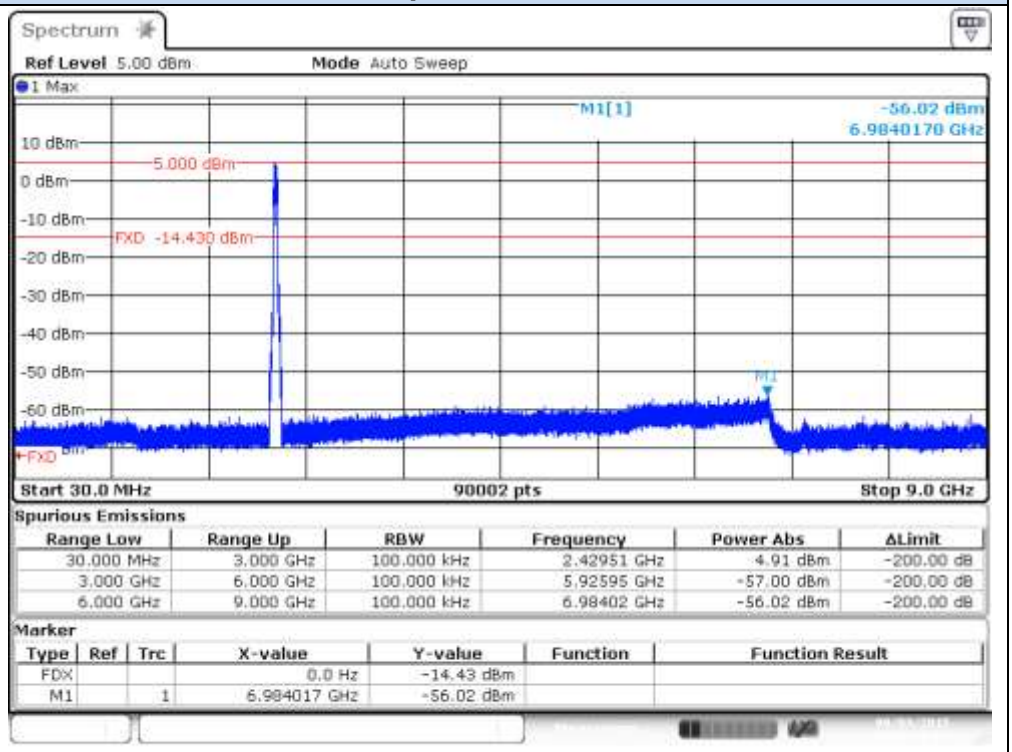
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-17.51 dBm		
M1		1	19.37605 GHz	-57.73 dBm		

Date: 7.SEP.2015 17:42:36

802.11n40, HT8 (MIMO) – Chain B, CH6F

Cond Spur, 30MHz – 9GHz



Spurious Emissions

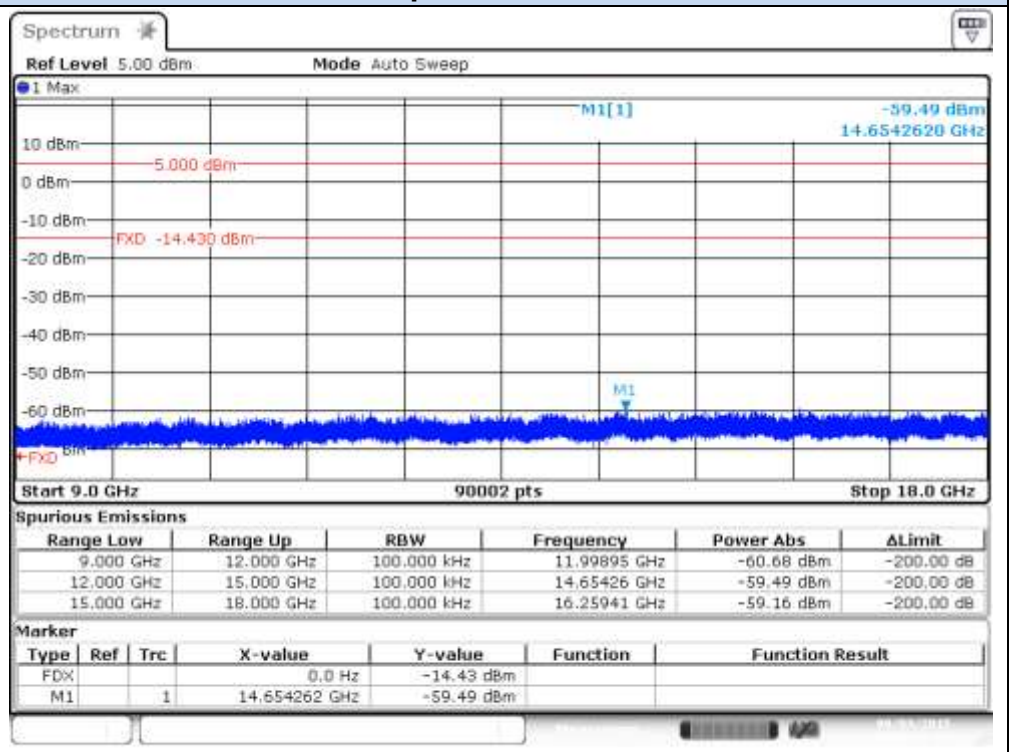
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.42951 GHz	4.91 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	5.92595 GHz	-57.00 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	6.98402 GHz	-56.02 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-14.43 dBm		
M1		1	6.984017 GHz	-56.02 dBm		

Date: 3.SEP.2015 11:16:41

Cond Spur, 9GHz – 18GHz



Spurious Emissions

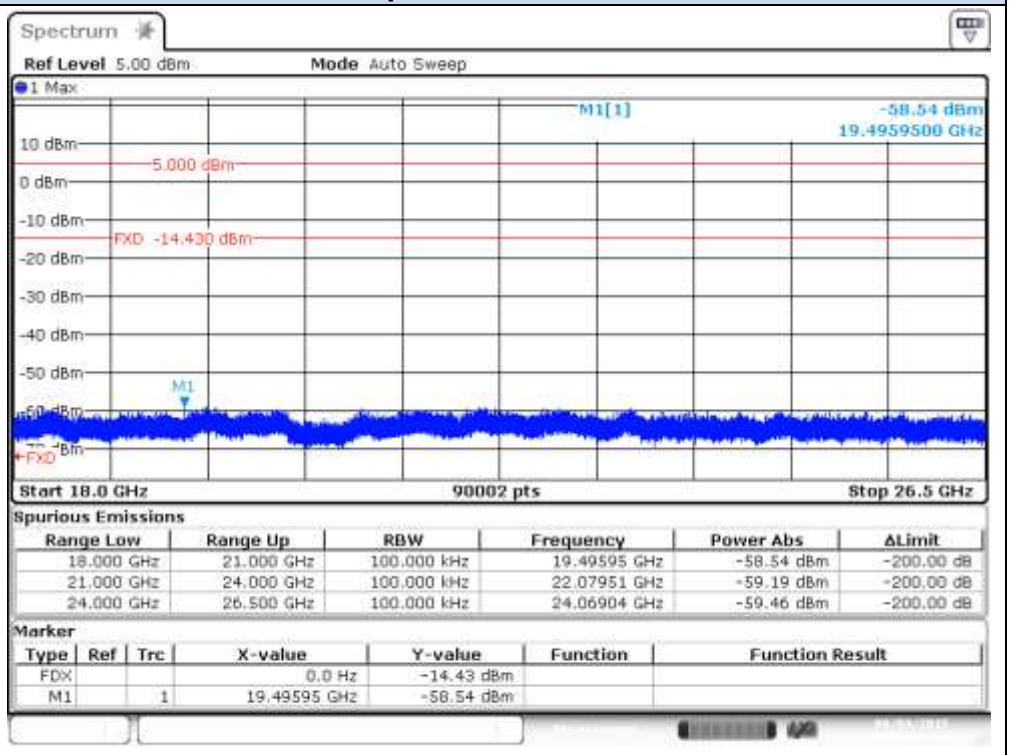
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	11.99895 GHz	-60.68 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	14.65426 GHz	-59.49 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	16.25941 GHz	-59.16 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-14.43 dBm		
M1		1	14.654262 GHz	-59.49 dBm		

Date: 3.SEP.2015 11:19:29

Cond Spur, 18GHz – 26.5GHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	19.49595 GHz	-58.54 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	22.07951 GHz	-59.19 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	24.06904 GHz	-59.46 dBm	-200.00 dB

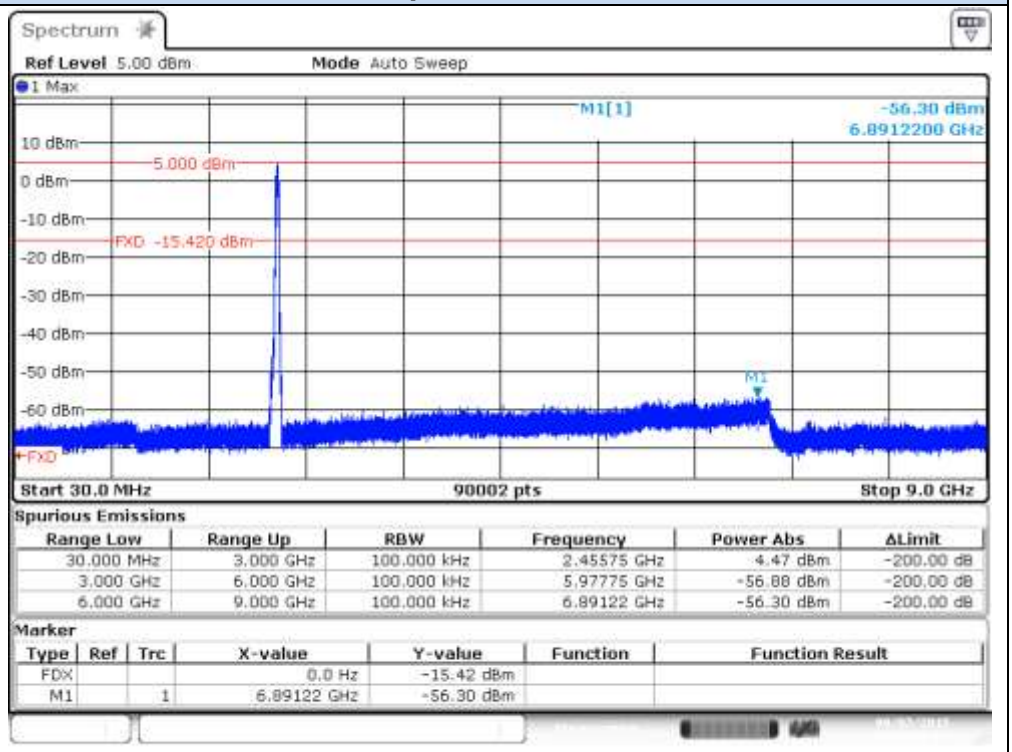
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-14.43 dBm		
M1		1	19.49595 GHz	-58.54 dBm		

Date: 3.SEP.2015 11:20:14

802.11n40, HT8 (MIMO) – Chain B, CH9F

Cond Spur, 30MHz – 9GHz



Spurious Emissions

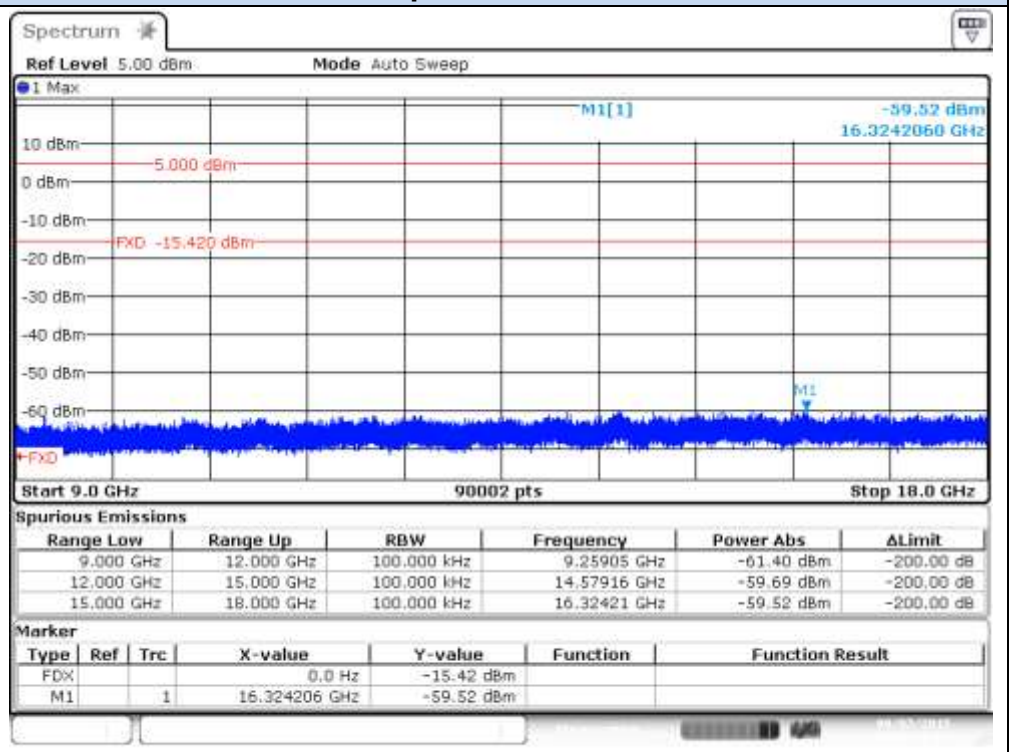
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	3.000 GHz	100.000 kHz	2.45575 GHz	4.47 dBm	-200.00 dB
3.000 GHz	6.000 GHz	100.000 kHz	5.97775 GHz	-56.88 dBm	-200.00 dB
6.000 GHz	9.000 GHz	100.000 kHz	6.89122 GHz	-56.30 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-15.42 dBm		
M1		1	6.89122 GHz	-56.30 dBm		

Date: 7.SEP.2015 17:44:01

Cond Spur, 9GHz – 18GHz



Spurious Emissions

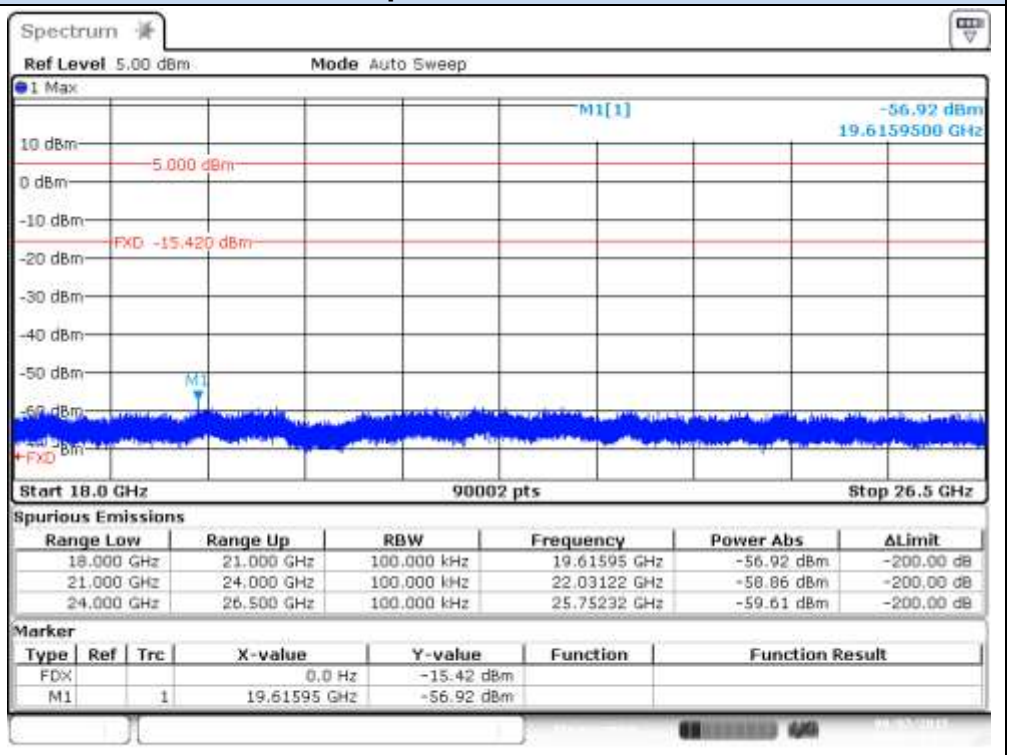
Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
9.000 GHz	12.000 GHz	100.000 kHz	9.25905 GHz	-61.40 dBm	-200.00 dB
12.000 GHz	15.000 GHz	100.000 kHz	14.57916 GHz	-59.69 dBm	-200.00 dB
15.000 GHz	18.000 GHz	100.000 kHz	16.32421 GHz	-59.52 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-15.42 dBm		
M1		1	16.324206 GHz	-59.52 dBm		

Date: 7.SEP.2015 17:44:41

Cond Spur, 18GHz – 26.5GHz



Spurious Emissions

Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
18.000 GHz	21.000 GHz	100.000 kHz	19.61595 GHz	-56.92 dBm	-200.00 dB
21.000 GHz	24.000 GHz	100.000 kHz	22.03122 GHz	-58.86 dBm	-200.00 dB
24.000 GHz	26.500 GHz	100.000 kHz	25.75232 GHz	-59.61 dBm	-200.00 dB

Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
FDX			0.0 Hz	-15.42 dBm		
M1		1	19.61595 GHz	-56.92 dBm		

Date: 7.SEP.2015 17:45:16

B.4 Power Spectral Density

Test limits:

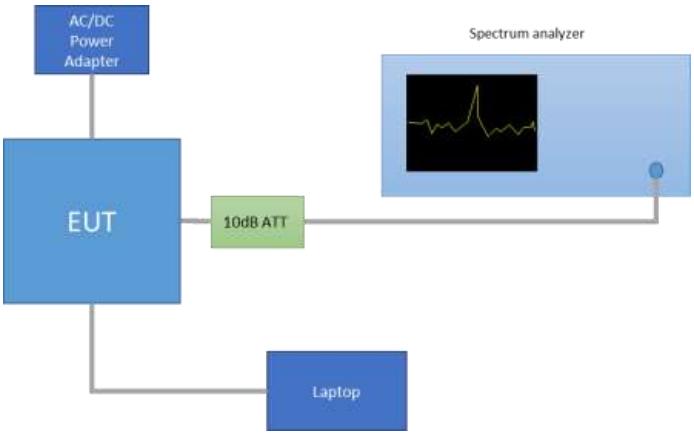
FCC part	RSS part	Limits
15.247 (e)	RSS-247 Clause 5.2 (2)	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test procedure:

The peak power spectral density level in the fundamental emission was measured using the method of trace averaging with EUT transmitting at full power throughout each sweep according to point 10.2 of Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247 558074 D01 DTS Meas Guidance v03r02 dated 2014/06/05. This method was used for 802.11b, 802.11g, 802.11n20 an 802.11n40 modes. The peak power spectral density level was used as reference from the marker-delta method measurement of the out of band emissions.

For MIMO mode, the *Measure and add 10 log(N_{ANT}) dB*, (where N_{ANT} is the number of outputs) technique was used according to the Guidance for Emission Testing of Transmitters with Multiple Outputs in the Same Band 662911 D01 Multiple Transmitter Output v02r01 dated 2013/10/31.
With this technique, spectrum measurements are performed at each output of the device, and the quantity 10 log(N_{ANT}) dB is added to each spectrum value before comparing to the emission limit.
Number of outputs = 2.

The setup below was used to measure the power spectral density. The antenna terminal of the EUT is connected to the spectrum through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.



Results tables:

PSD RMS

SISO modes						PSD RMS [dBm]	
Mode	**Rate**	**Meas. Duty Cycle [%]**	**CH**	**Frequency [MHz]**	**Antenna**	**Measured Conducted**	**Duty cycle Compensated**
802.11b	1Mbps	98.0	1	2412	SISO CHAIN A	-9.16	-9.07
					SISO CHAIN B	-9.44	-9.35
			6	2437	SISO CHAIN A	-9.01	-8.92
					SISO CHAIN B	-9.21	-9.12
			11	2462	SISO CHAIN A	-10.38	-10.29
					SISO CHAIN B	-11.35	-11.26
			12	2467	SISO CHAIN A	-14.08	-13.99
					SISO CHAIN B	-15.50	-15.41
			13	2472	SISO CHAIN A	-20.84	-20.75
					SISO CHAIN B	-21.56	-21.47
802.11g	6Mbps	98.1	1	2412	SISO CHAIN A	-15.71	-15.63
					SISO CHAIN B	-15.90	-15.82
			6	2437	SISO CHAIN A	-12.97	-12.89
					SISO CHAIN B	-13.05	-12.97
			11	2462	SISO CHAIN A	-15.66	-15.58
					SISO CHAIN B	-15.87	-15.79
			12	2467	SISO CHAIN A	-21.25	-21.17
					SISO CHAIN B	-20.64	-20.56
			13	2472	SISO CHAIN A	-35.99	-35.91
					SISO CHAIN B	-37.88	-37.80
802.11n20	HT0	98.0	1	2412	SISO CHAIN A	-16.61	-16.52
					SISO CHAIN B	-16.13	-16.04
			6	2437	SISO CHAIN A	-13.06	-12.97
					SISO CHAIN B	-12.80	-12.71
			11	2462	SISO CHAIN A	-16.67	-16.58
					SISO CHAIN B	-16.37	-16.28
			12	2467	SISO CHAIN A	-22.27	-22.18
					SISO CHAIN B	-21.33	-21.24
			13	2472	SISO CHAIN A	-36.88	-36.79
					SISO CHAIN B	-38.46	-38.37

SISO modes

Mode	Rate	Meas. Duty Cycle [%]	CH	Frequency [MHz]	Antenna	PSD RMS [dBm]	
						Measured Conducted	Duty cycle Compensated
802.11n40	HT0	96.4	3F	2422	SISO CHAIN A	-17.90	-17.74
					SISO CHAIN B	-17.19	-17.03
			6F	2437	SISO CHAIN A	-15.4	-15.21
					SISO CHAIN B	-15.24	-15.08
			9F	2452	SISO CHAIN A	-18.31	-18.15
					SISO CHAIN B	-18.32	-18.16
			10F	2457	SISO CHAIN A	-25.54	-25.38
					SISO CHAIN B	-25.29	-25.13
			11F	2462	SISO CHAIN A	-38.80	-38.64
					SISO CHAIN B	-39.19	-39.03

MIMO modes

Mode	Rate	Meas. Duty Cycle [%]	CH	Freq. [MHz]	Antenna	PSD RMS [dBm]		
						Measured Conducted	Duty cycle Compensated	MIMO Compensated $+10\cdot\log(N_{ant})$
802.11n20	HT8	95.5	1	2412	CHAIN A	-16.94	-16.74	-13.74
					CHAIN B	-15.90	-15.70	-12.7
			6	2437	CHAIN A	-14.82	-14.62	-11.62
					CHAIN B	-14.96	-14.76	-11.76
			11	2462	CHAIN A	-15.52	-15.32	-12.32
					CHAIN B	-15.38	-15.18	-12.18
			12	2467	CHAIN A	-21.98	-21.78	-18.78
					CHAIN B	-22.01	-21.81	-18.81
			13	2472	CHAIN A	-36.54	-36.34	-33.34
					CHAIN B	-37.88	-37.68	-34.68
802.11n40	HT8	91.9	3F	2422	CHAIN A	-17.96	-17.60	-14.60
					CHAIN B	-16.90	-16.54	-13.54
			6F	2437	CHAIN A	-15.26	-14.90	-11.90
					CHAIN B	-16.04	-15.68	-12.68
			9F	2452	CHAIN A	-16.93	-16.57	-13.57
					CHAIN B	-17.22	-16.86	-13.86
			10F	2457	CHAIN A	-24.04	-23.68	-20.68
					CHAIN B	-24.93	-24.57	-21.57
			11F	2462	CHAIN A	-36.99	-36.63	-33.63
					CHAIN B	-38.99	-38.63	-35.63

PSD Peak

SISO modes

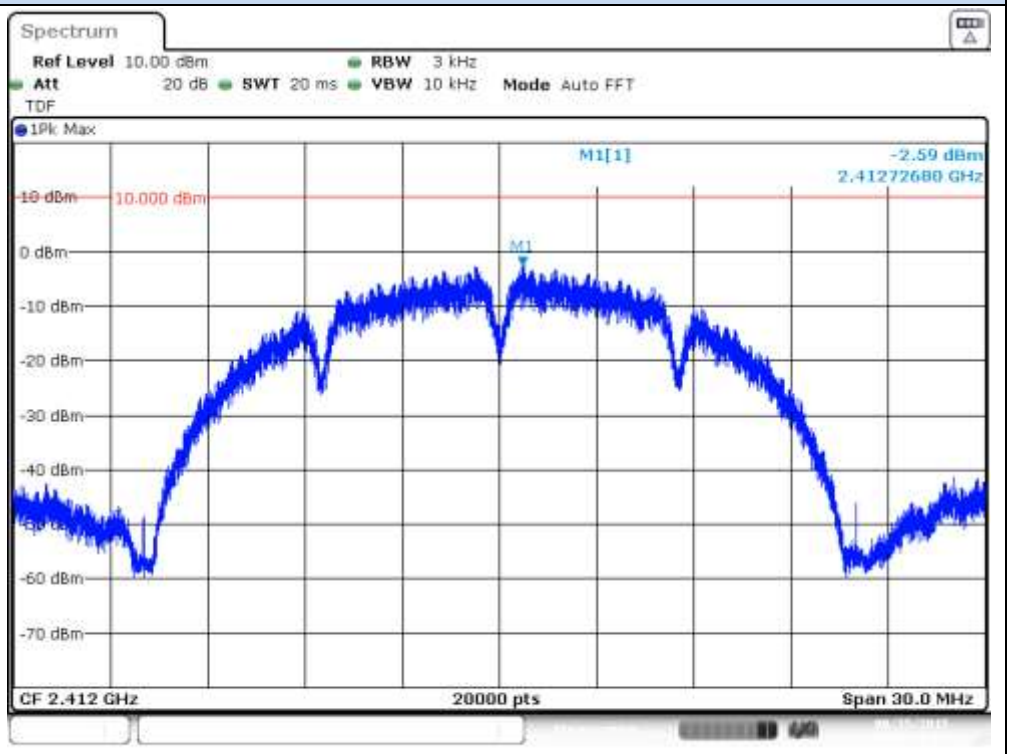
Mode	Rate	Measured Duty Cycle [%]	Channel	Frequency [MHz]	Antenna	PSD Peak [dBm]
802.11b	1Mbps	98.0	1	2412	SISO CHAIN A	-2.59
					SISO CHAIN B	-2.64
			6	2437	SISO CHAIN A	-2.42
					SISO CHAIN B	-2.68
			11	2462	SISO CHAIN A	-3.73
					SISO CHAIN B	-4.80
			12	2467	SISO CHAIN A	-7.19
					SISO CHAIN B	-8.98
			13	2472	SISO CHAIN A	-13.85
					SISO CHAIN B	-14.85
802.11g	6Mbps	98.1	1	2412	SISO CHAIN A	-5.73
					SISO CHAIN B	-5.89
			6	2437	SISO CHAIN A	-2.30
					SISO CHAIN B	-3.03
			11	2462	SISO CHAIN A	-5.71
					SISO CHAIN B	-5.66
			12	2467	SISO CHAIN A	-10.86
					SISO CHAIN B	-10.89
			13	2472	SISO CHAIN A	-25.49
					SISO CHAIN B	-27.79
802.11n20	HT0	98.0	1	2412	SISO CHAIN A	-5.19
					SISO CHAIN B	-4.33
			6	2437	SISO CHAIN A	-1.61
					SISO CHAIN B	-1.66
			11	2462	SISO CHAIN A	-5.22
					SISO CHAIN B	-4.83
			12	2467	SISO CHAIN A	-11.03
					SISO CHAIN B	-10.05
			13	2472	SISO CHAIN A	-26.62
					SISO CHAIN B	-27.44
802.11n40	HT0	96.4	3F	2422	SISO CHAIN A	-9.68
					SISO CHAIN B	-9.60
			6F	2437	SISO CHAIN A	-5.68
					SISO CHAIN B	-6.01
			9F	2452	SISO CHAIN A	-9.50
					SISO CHAIN B	-9.63
			10F	2457	SISO CHAIN A	-16.89
					SISO CHAIN B	-16.25
			11F	2462	SISO CHAIN A	-29.65
					SISO CHAIN B	-29.92

MIMO modes						PSD Peak [dBm]	
Mode	**Rate**	**Meas. Duty Cycle [%]**	**CH**	**Freq. [MHz]**	**Antenna**	**Measured Conducted**	**MIMO Compensated +10·log(N_{ant})**
802.11n20	HT8	95.5	1	2412	CHAIN A	-6.72	-3.72
					CHAIN B	-5.70	-2.70
			6	2437	CHAIN A	-5.33	-2.33
					CHAIN B	-5.31	-2.31
			11	2462	CHAIN A	-5.62	-2.62
					CHAIN B	-5.89	-2.89
			12	2467	CHAIN A	-16.54	-13.54
					CHAIN B	-12.16	-9.16
			13	2472	CHAIN A	-26.64	-23.64
					CHAIN B	-28.18	-25.18
802.11n40	HT8	91.9	3F	2422	CHAIN A	-10.12	-7.12
					CHAIN B	-8.90	-5.90
			6F	2437	CHAIN A	-8.35	-5.35
					CHAIN B	-7.86	-4.86
			9F	2452	CHAIN A	-9.42	-6.42
					CHAIN B	-8.42	-5.42
			10F	2457	CHAIN A	-16.70	-13.70
					CHAIN B	-16.12	-13.12
			11F	2462	CHAIN A	-29.59	-26.59
					CHAIN B	-29.89	-26.89

Results screenshot:

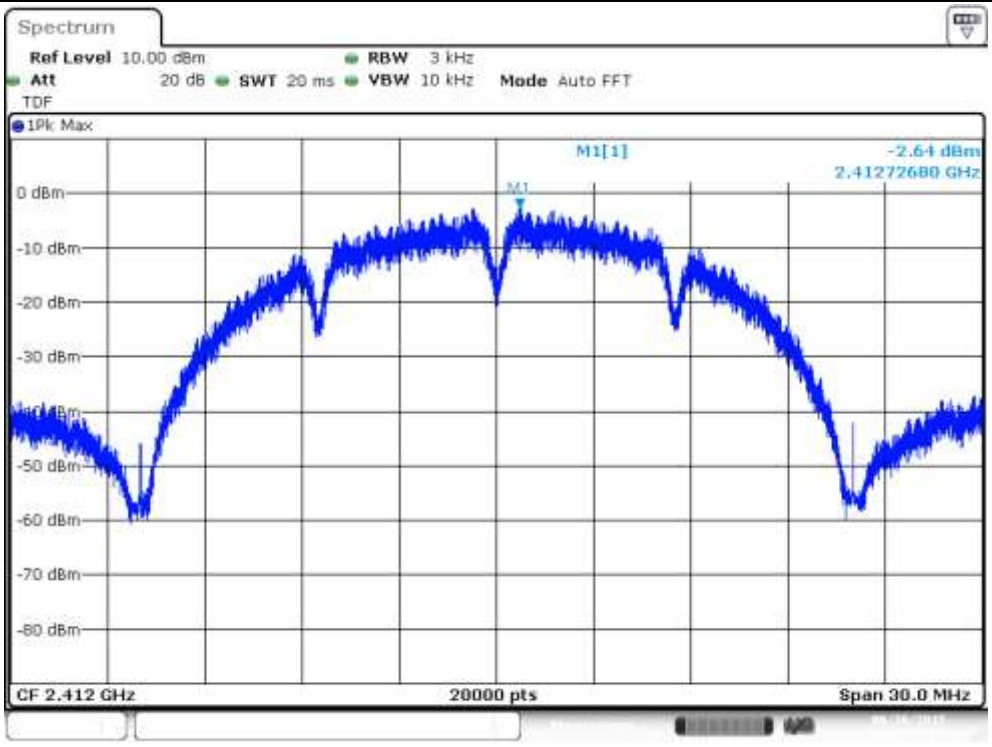
802.11b, 1Mbps

PSD Peak, Chain A – CH1



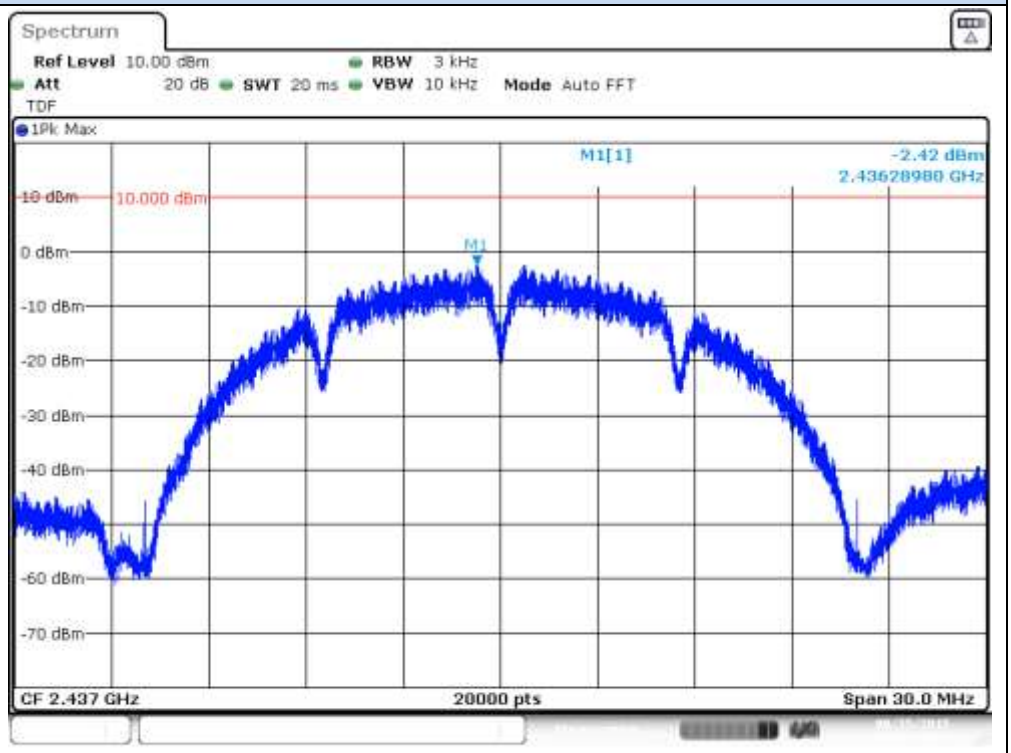
Date: 25.AUG.2015 16:01:12

PSD Peak, Chain B - CH1

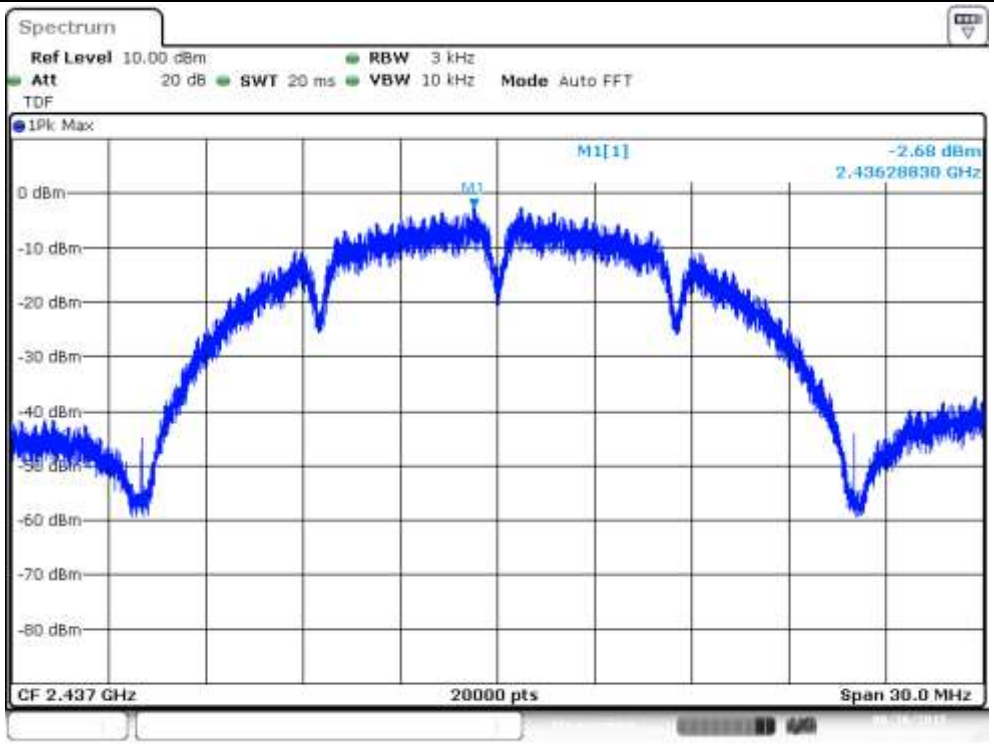


Date: 26.AUG.2015 11:55:11

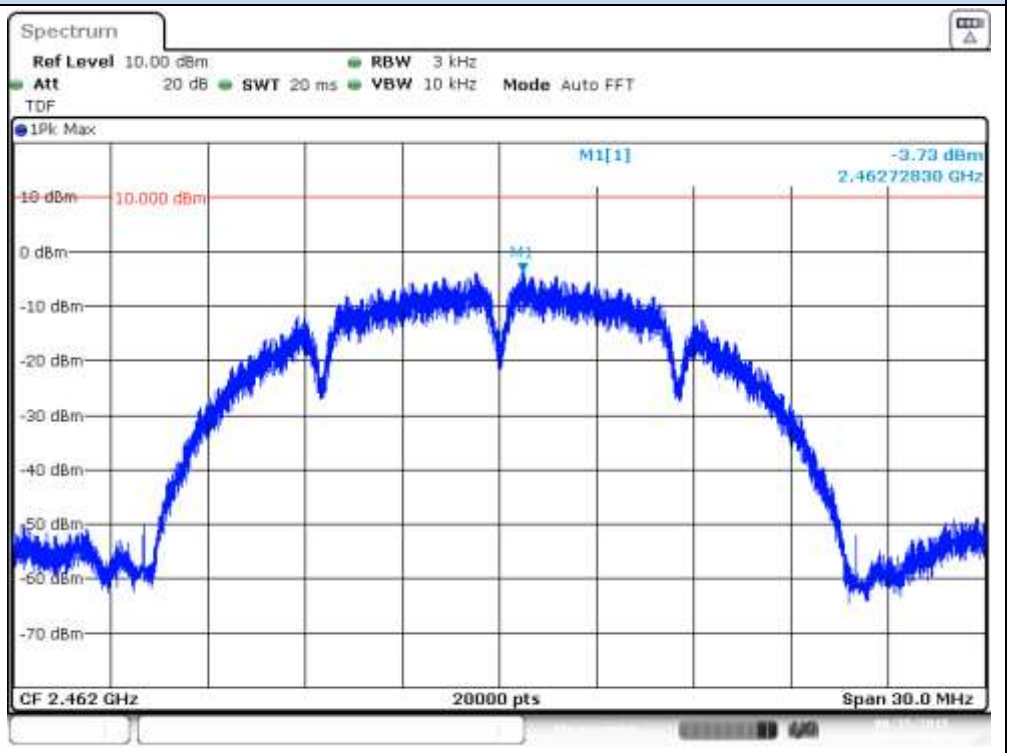
PSD Peak, Chain A – CH6



PSD Peak, Chain B – CH6

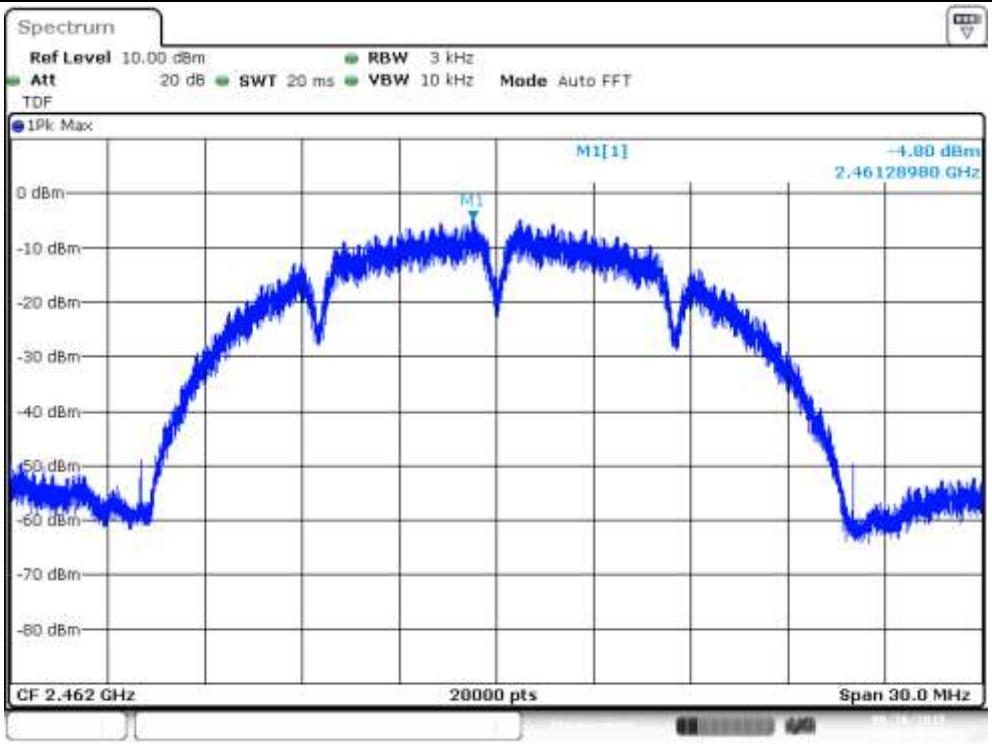


PSD Peak, Chain A - CH11



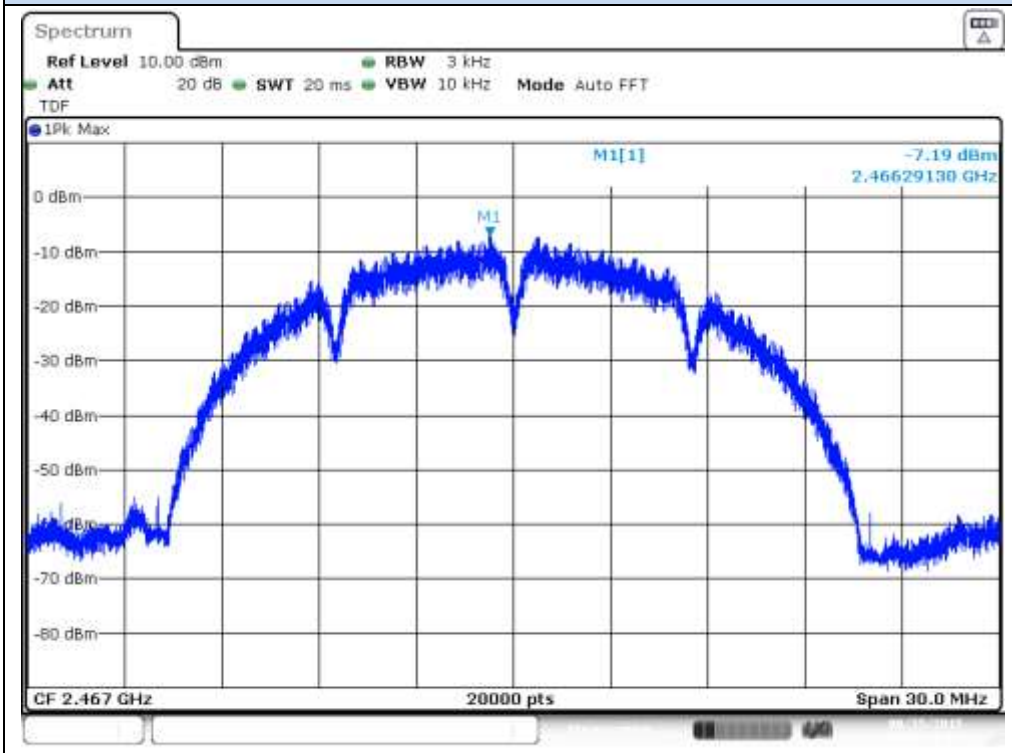
Date: 25.AUG.2015 16:17:19

PSD Peak, Chain B - CH11



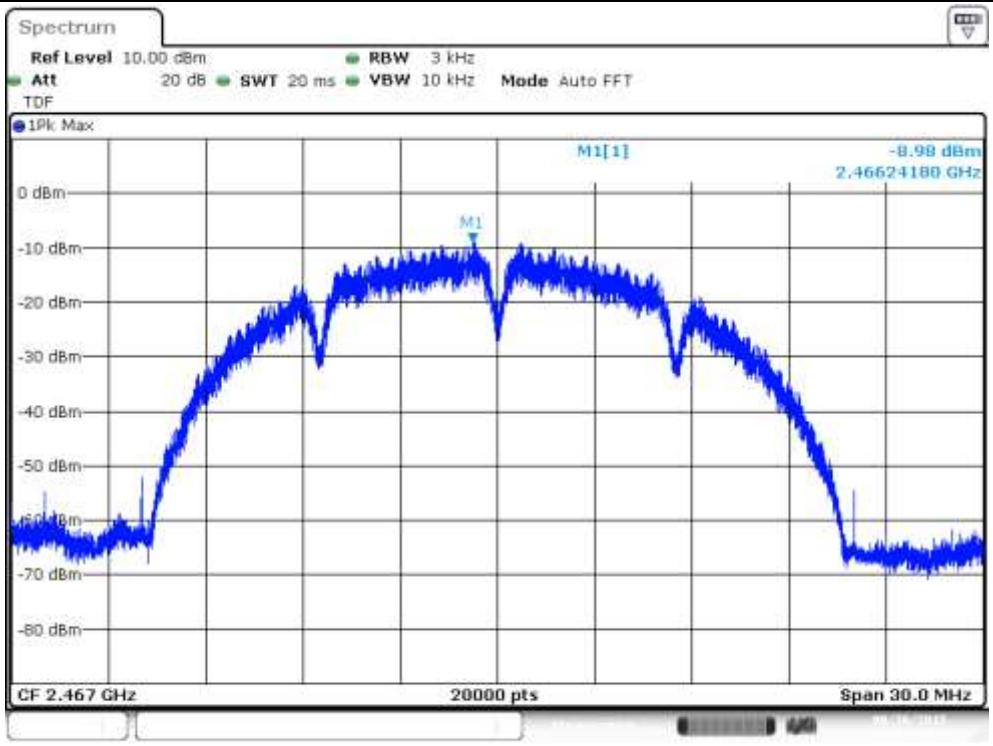
Date: 26.AUG.2015 12:15:46

PSD Peak, Chain A - CH12



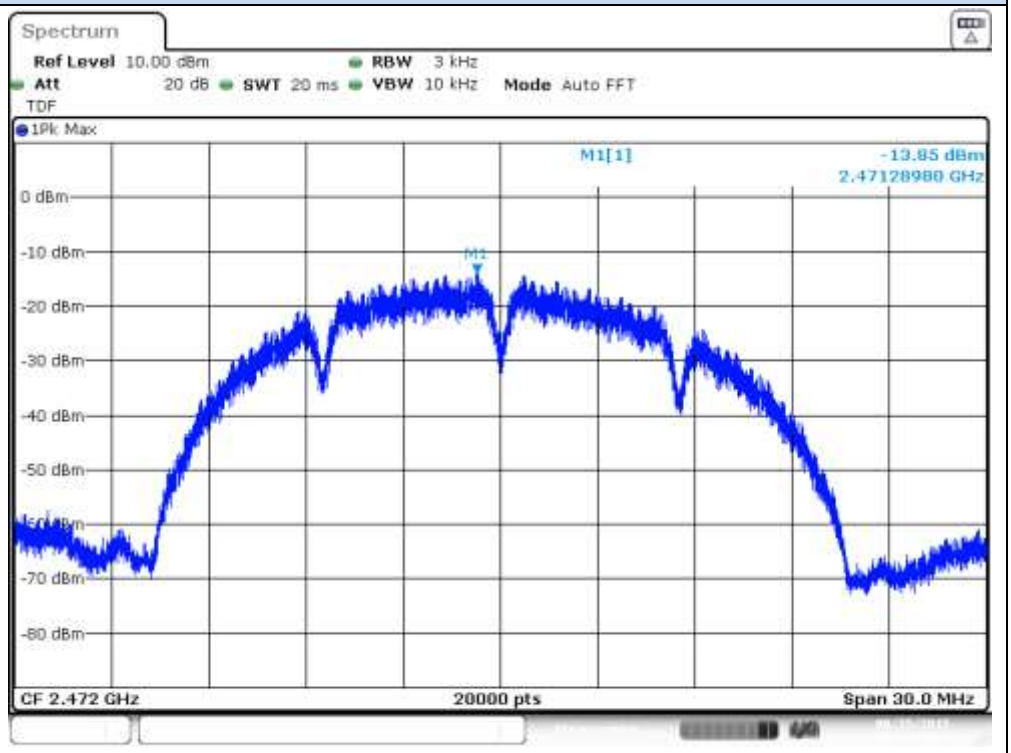
Date: 25.AUG.2015 16:27:48

PSD Peak, Chain B - CH12



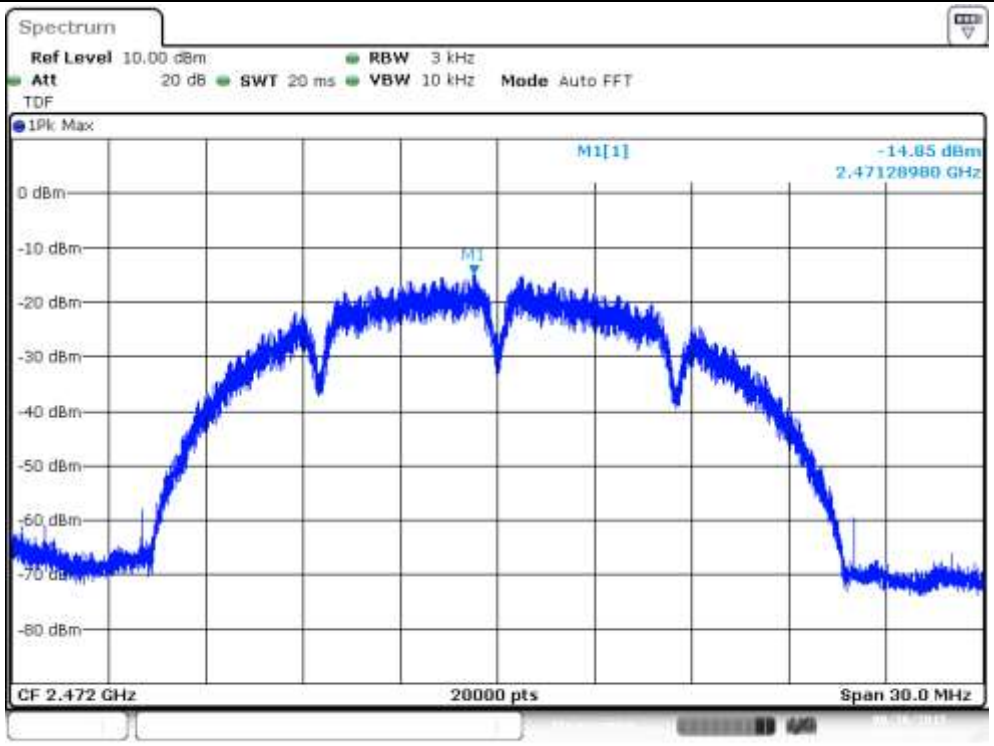
Date: 26.AUG.2015 14:22:35

PSD Peak, Chain A - CH13



Date: 25.AUG.2015 16:34:54

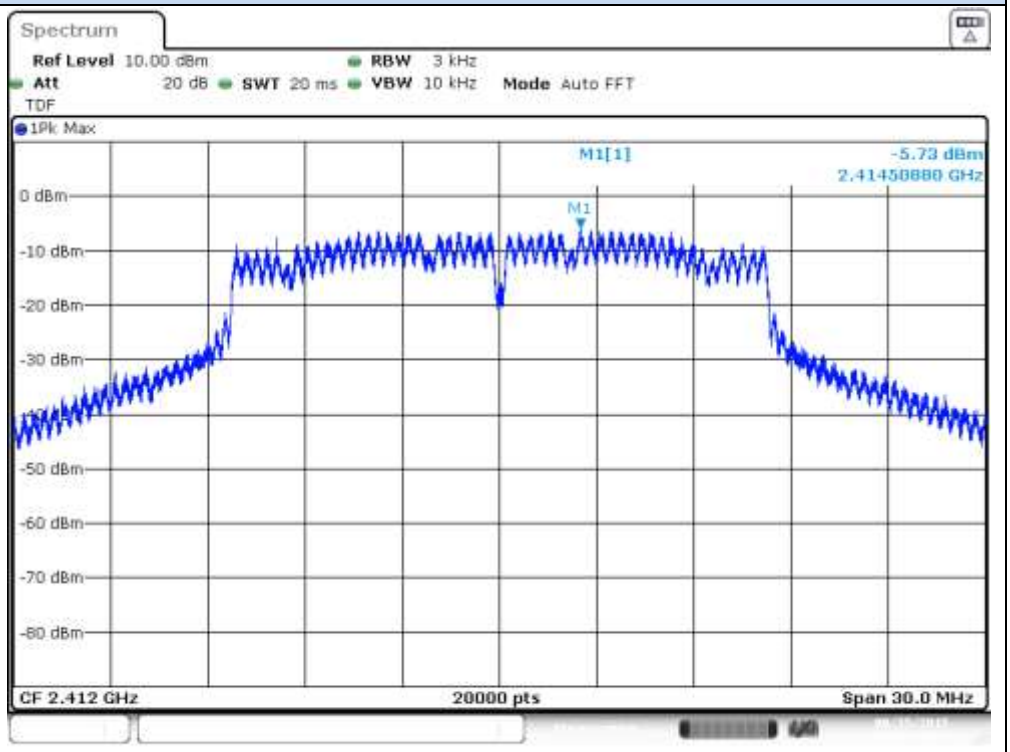
PSD Peak, Chain B - CH13



Date: 26.AUG.2015 14:30:17

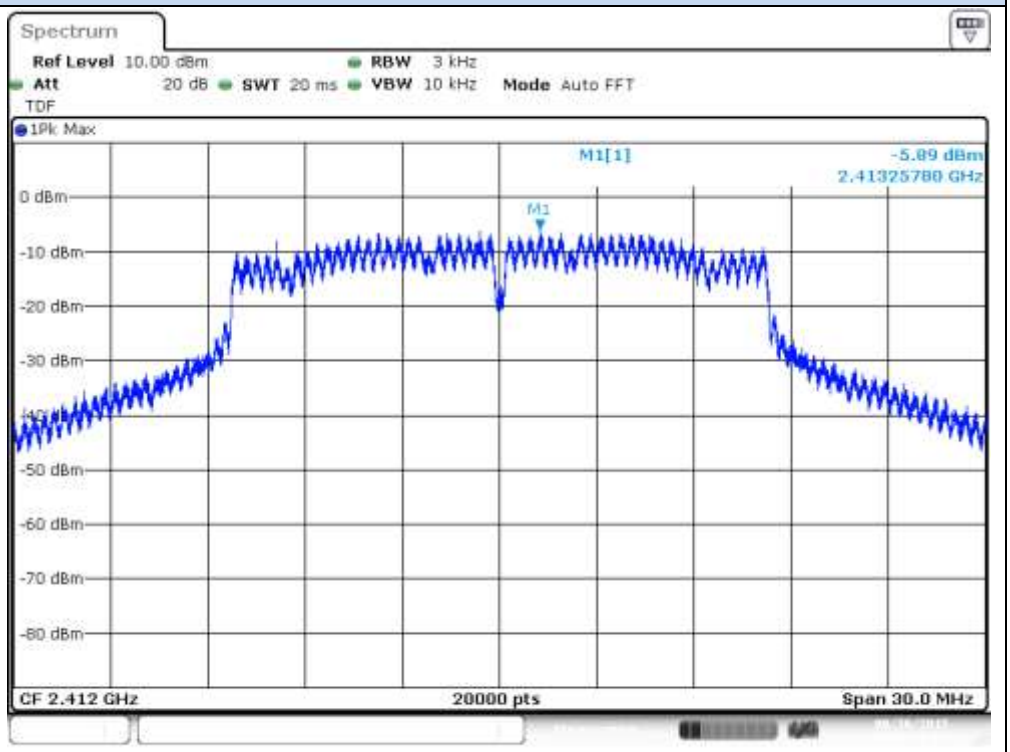
802.11g, 6Mbps

PSD Peak, Chain A – CH1



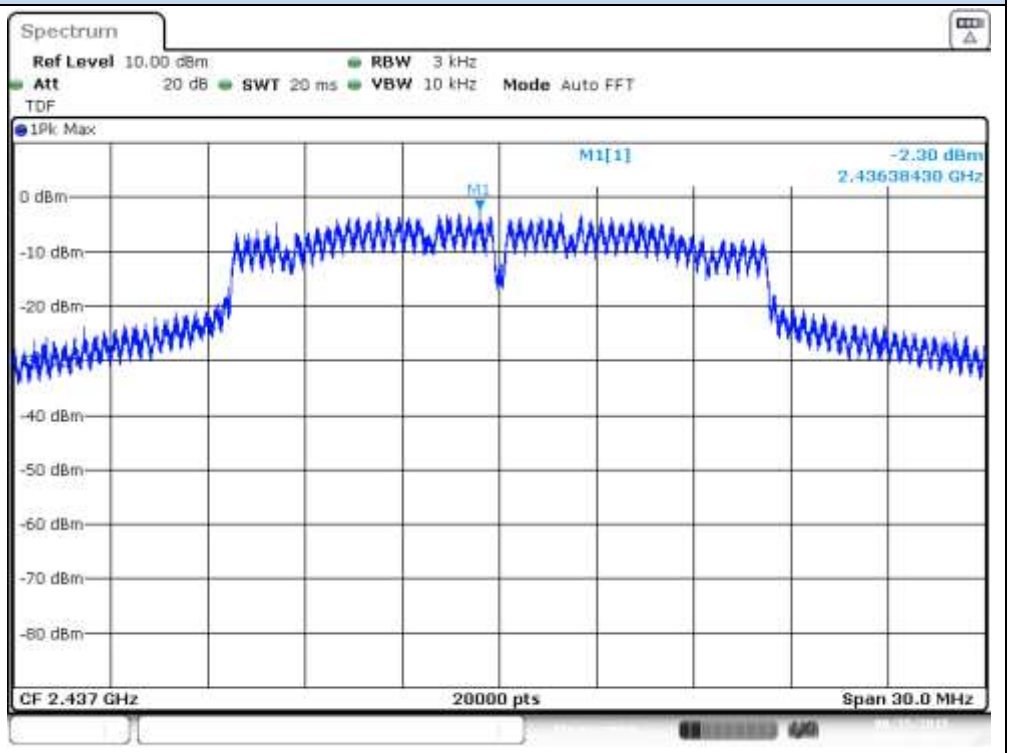
Date: 25.AUG.2015 16:43:14

PSD Peak, Chain B - CH1



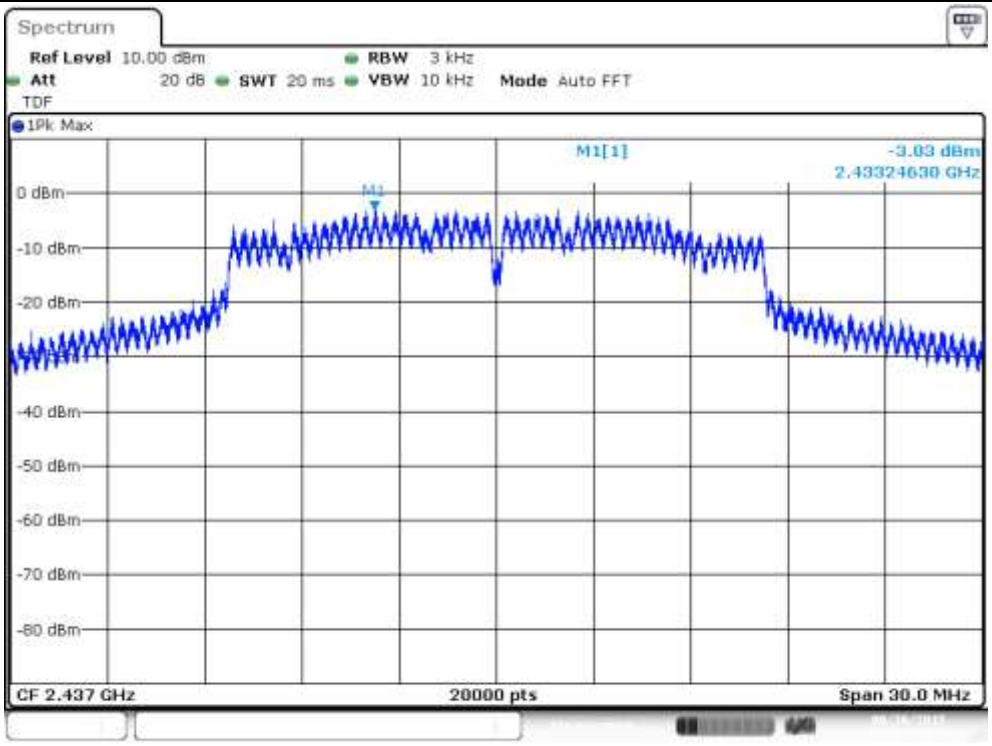
Date: 26.AUG.2015 14:35:41

PSD Peak, Chain A – CH6



Date: 25.AUG.2015 17:15:38

PSD Peak, Chain B – CH6



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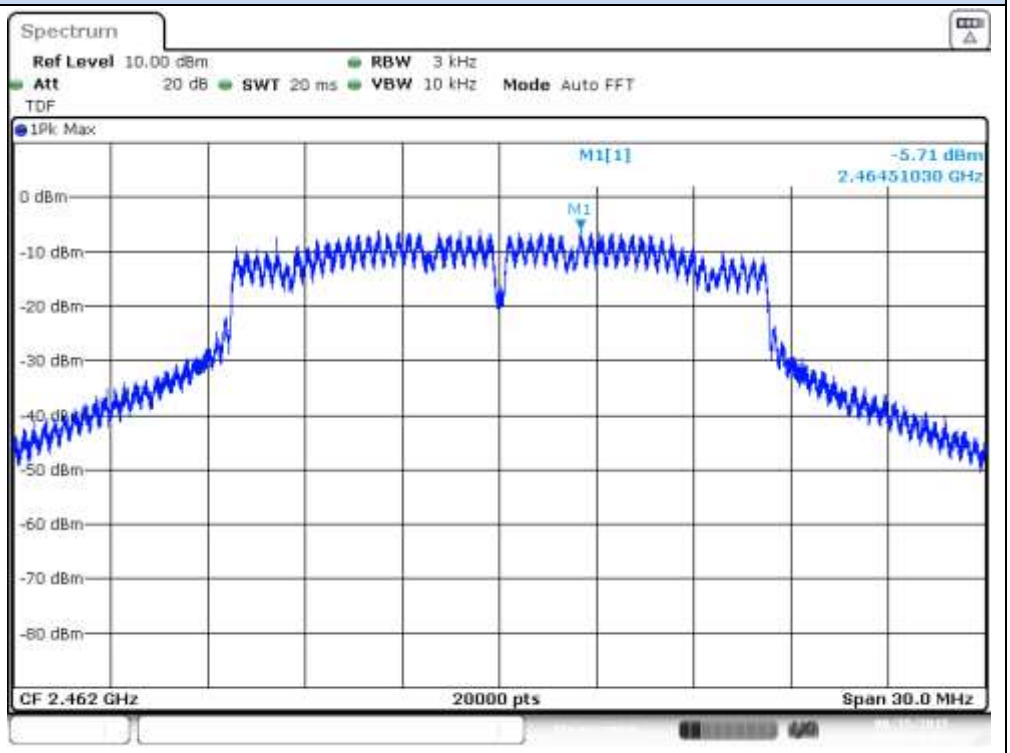
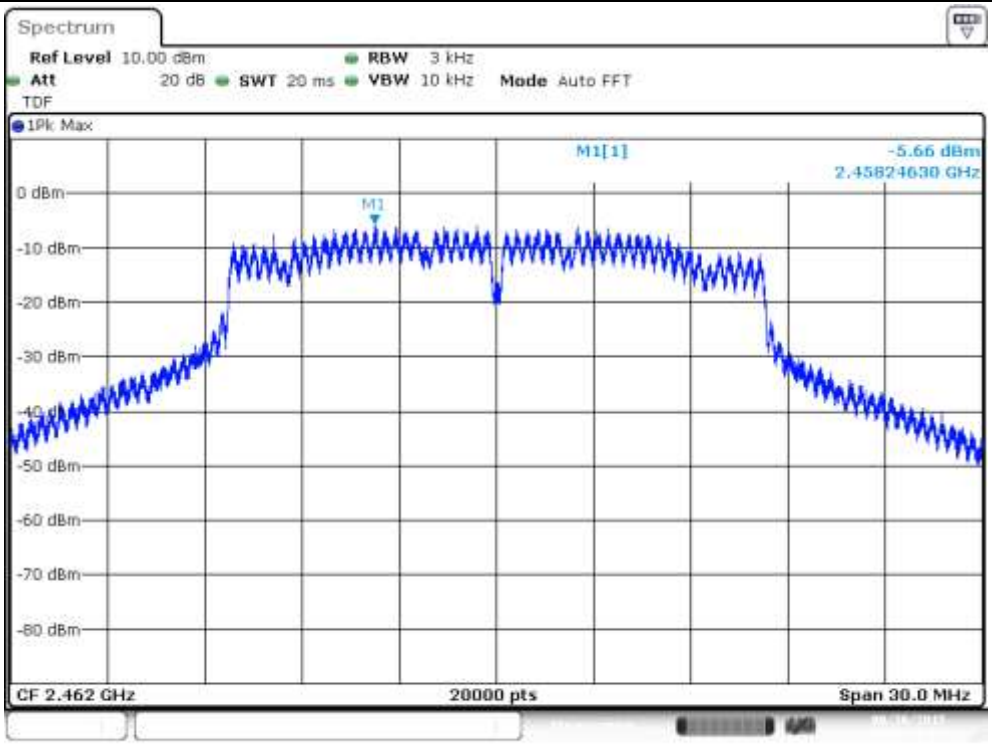
PSD Peak, Chain A - CH11



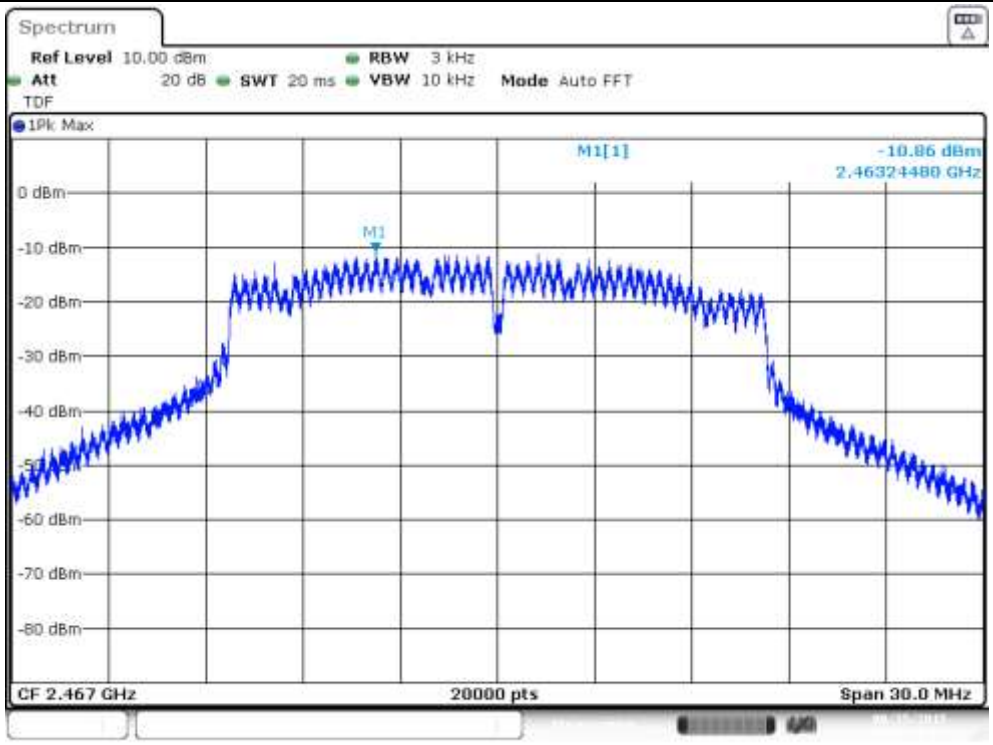
Date: 25.AUG.2015 16:56:51

PSD Peak, Chain B - CH11

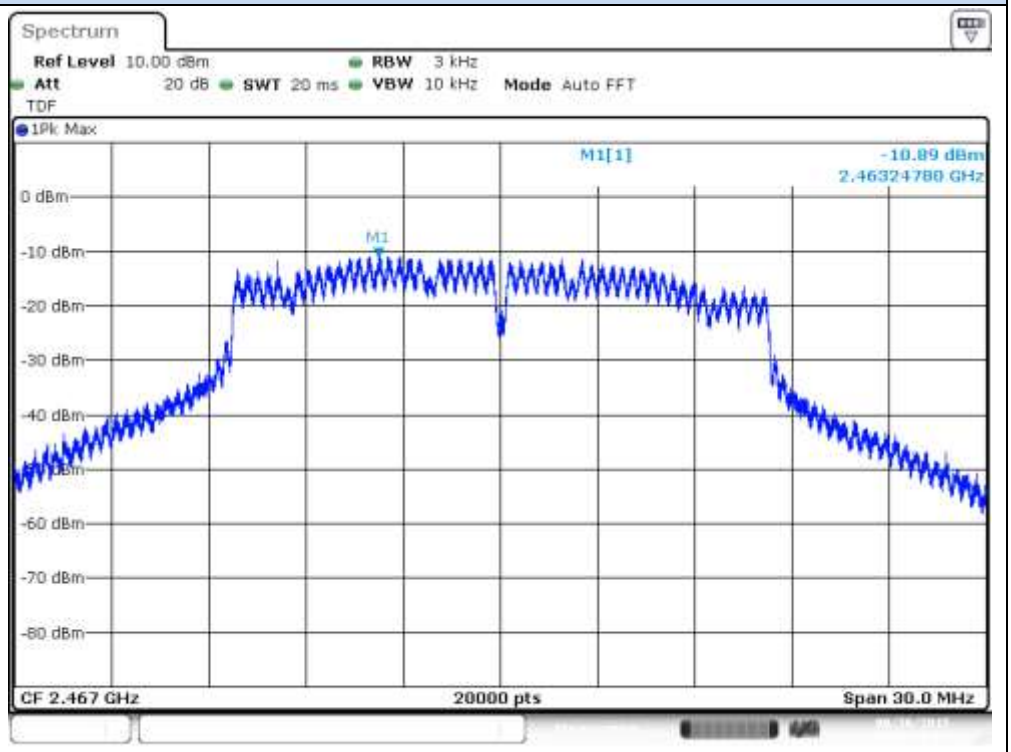


Date: 26.AUG.2015 14:49:40

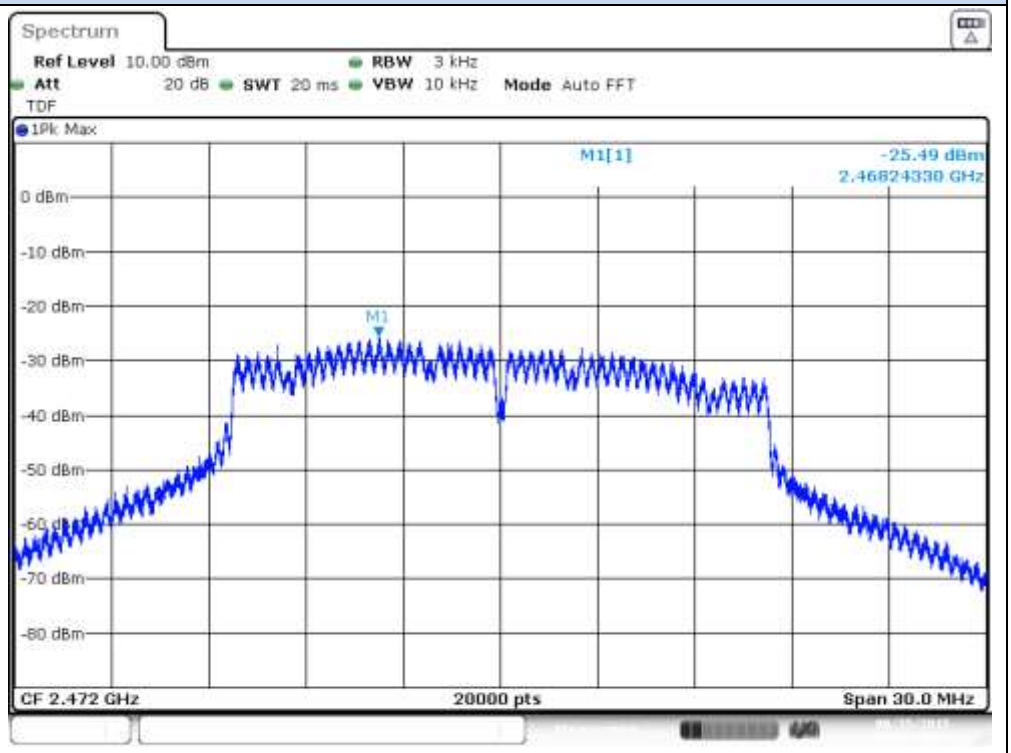
PSD Peak, Chain A - CH12



PSD Peak, Chain B - CH12



PSD Peak, Chain A - CH13



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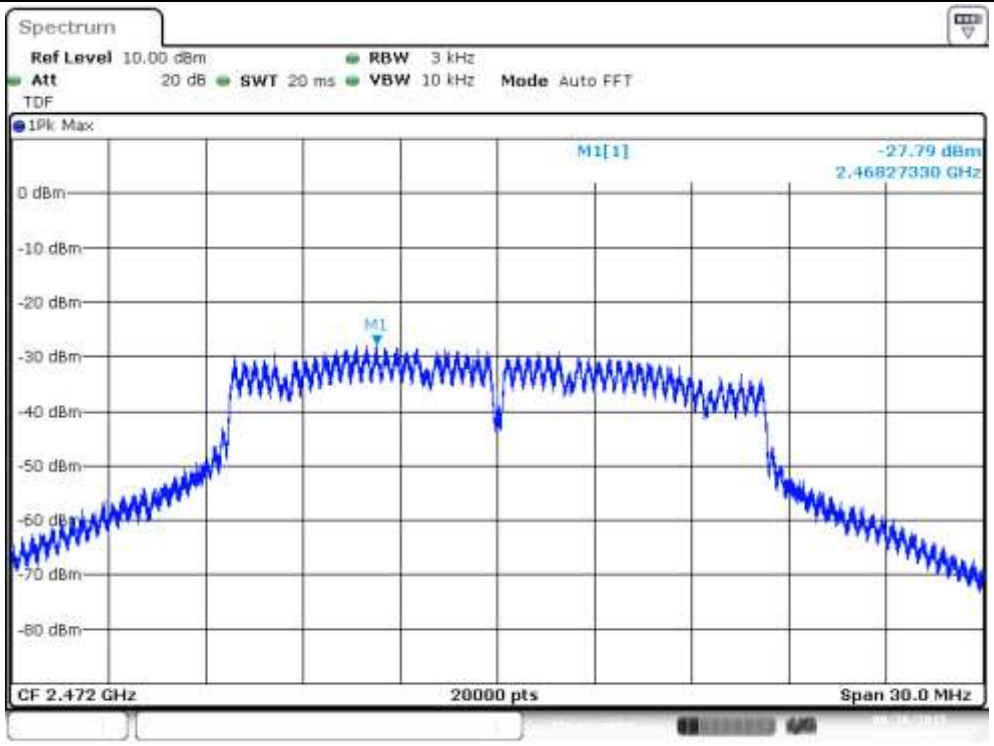
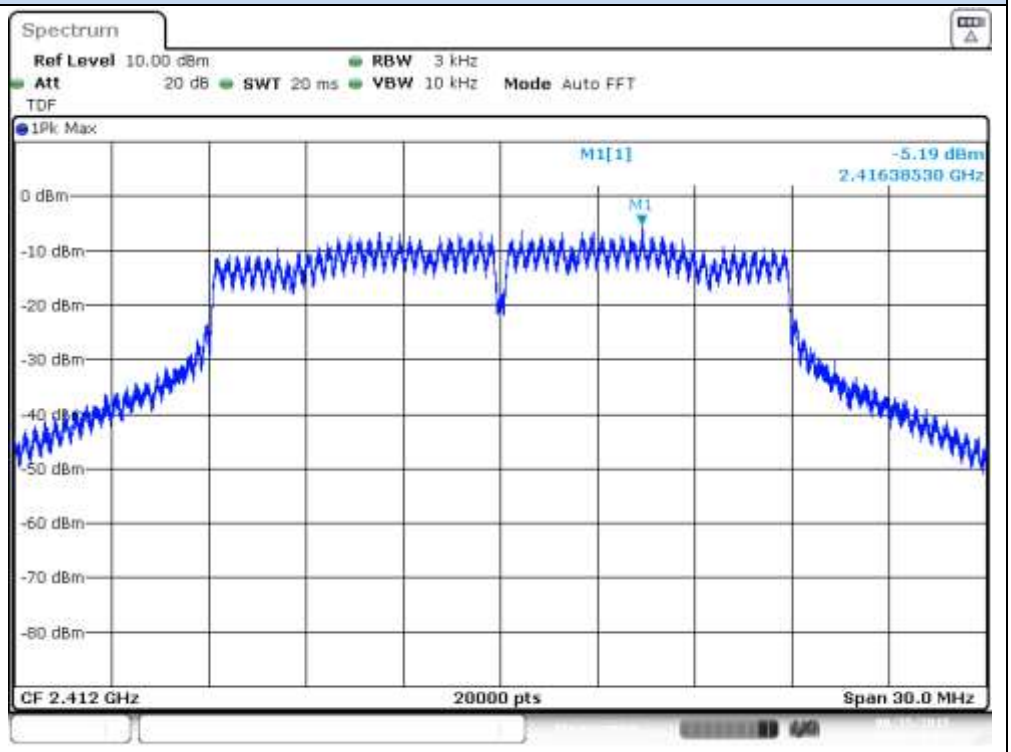
PSD Peak, Chain B - CH13



Date: 26.AUG.2015 15:03:07

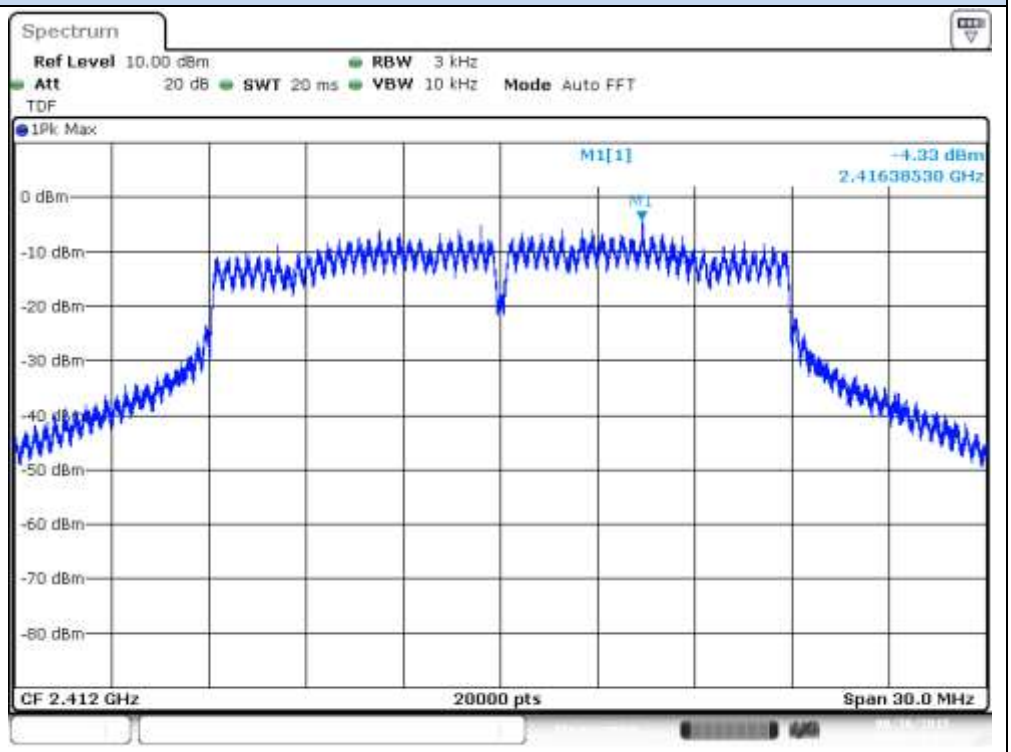
802.11n20, HT0 (SISO)

PSD Peak, Chain A - CH1



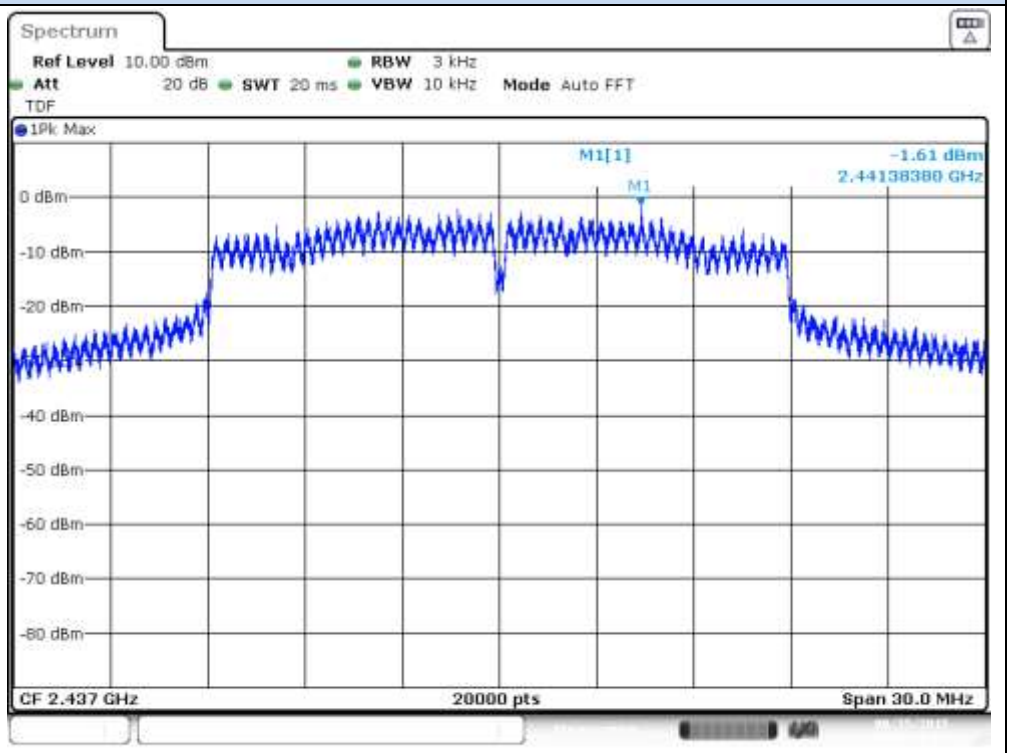
Date: 25.AUG.2015 17:55:10

PSD Peak, Chain B - CH1



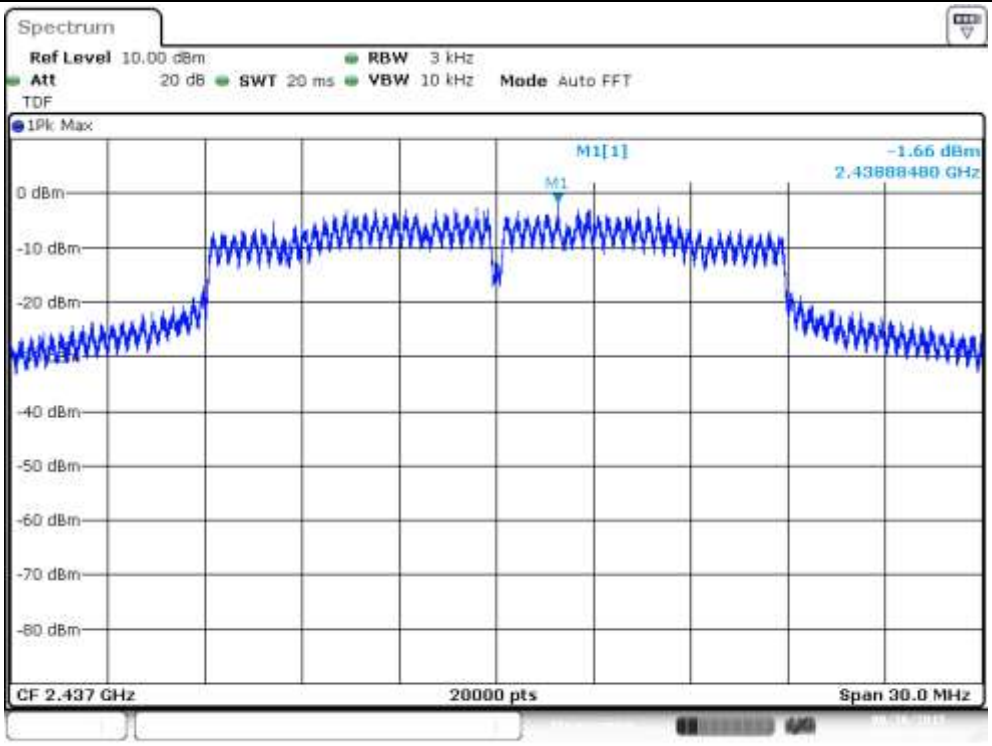
Date: 26.AUG.2015 15:32:30

PSD Peak, Chain A - CH6



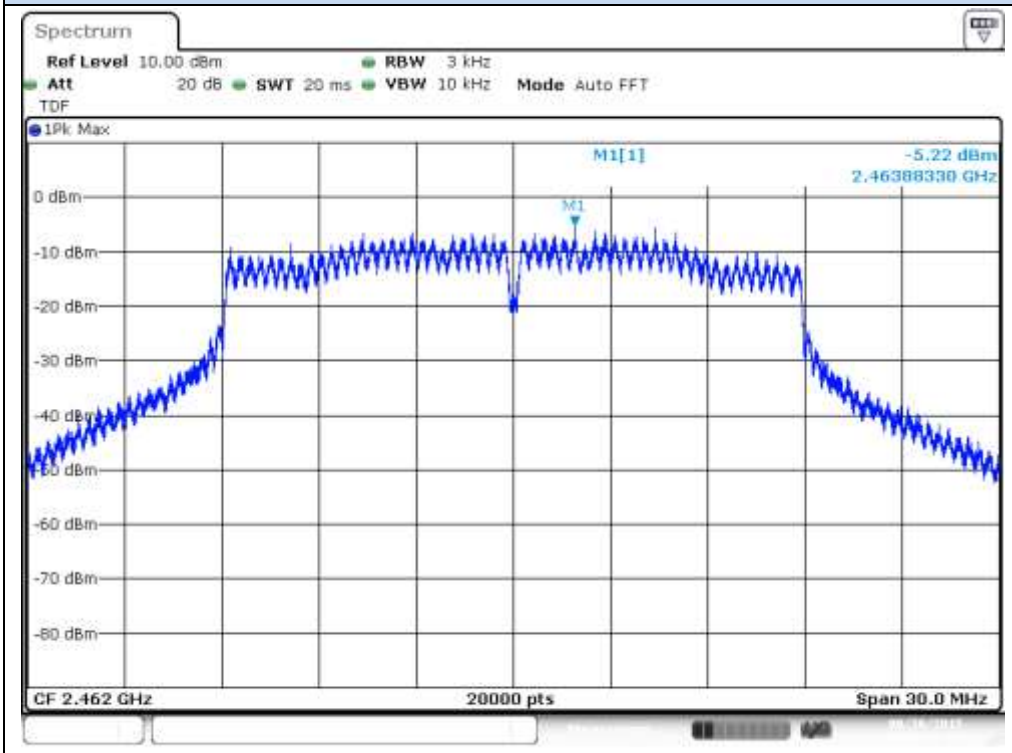
Date: 25.AUG.2015 18:19:16

PSD Peak, Chain B - CH6

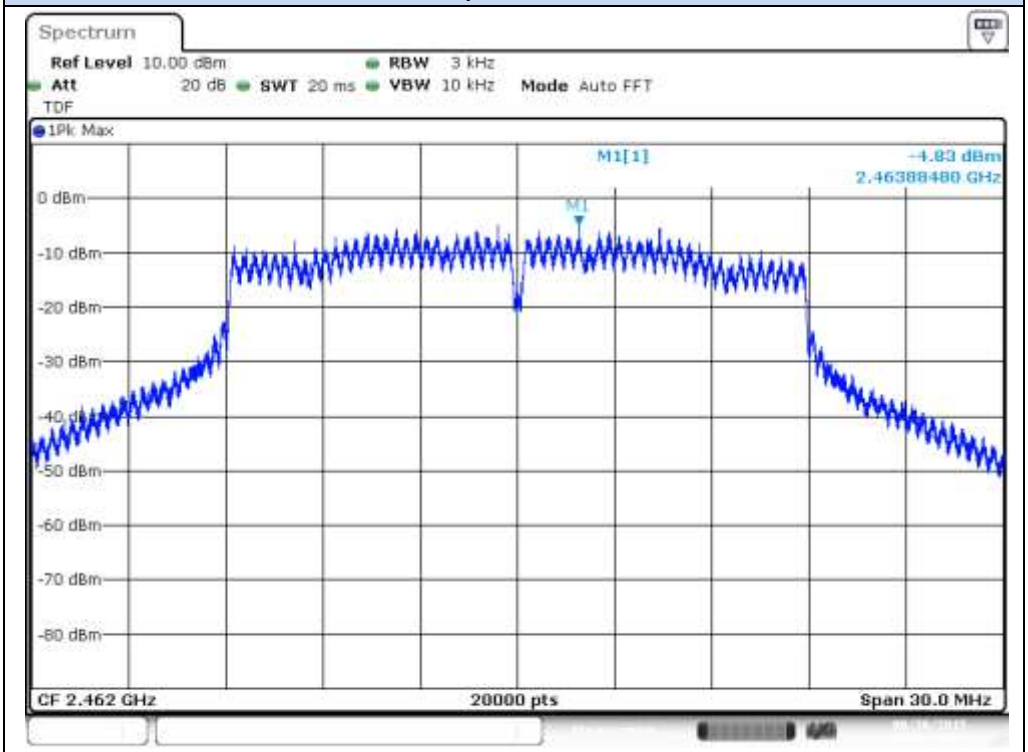


Date: 26.AUG.2015 15:40:47

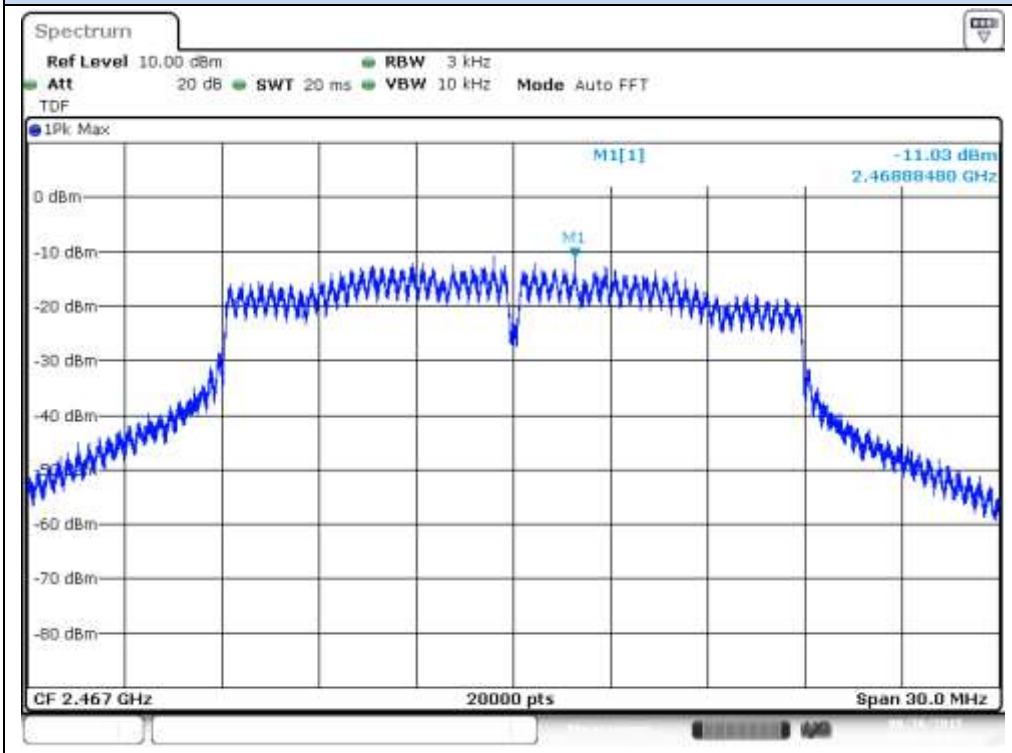
PSD Peak, Chain A - CH11



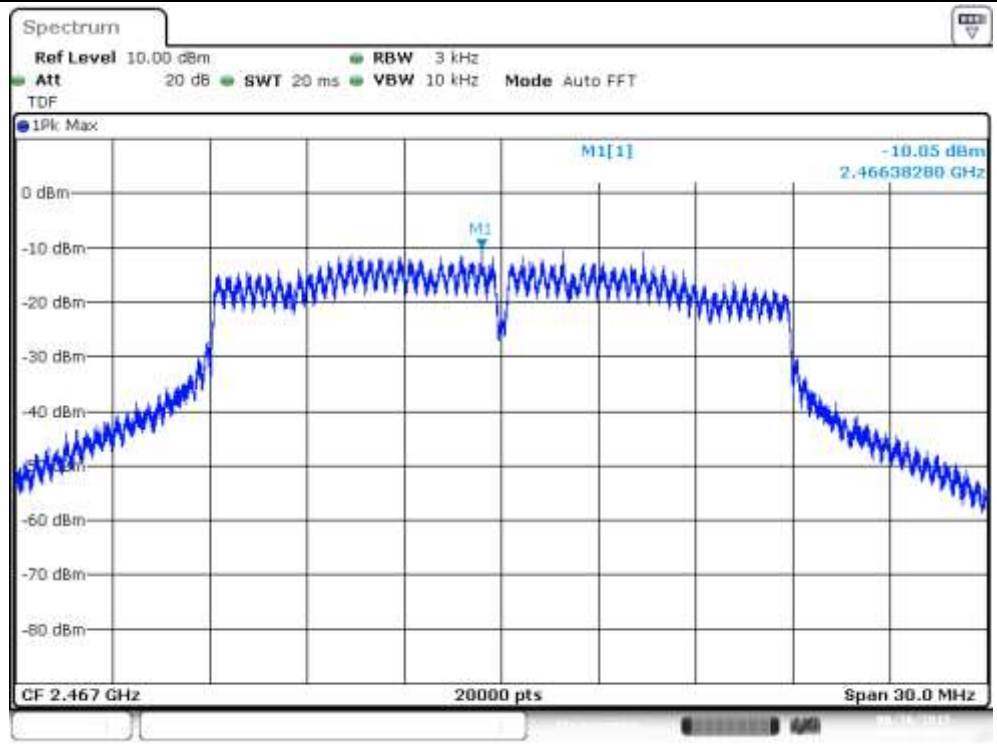
PSD Peak, Chain B - CH11



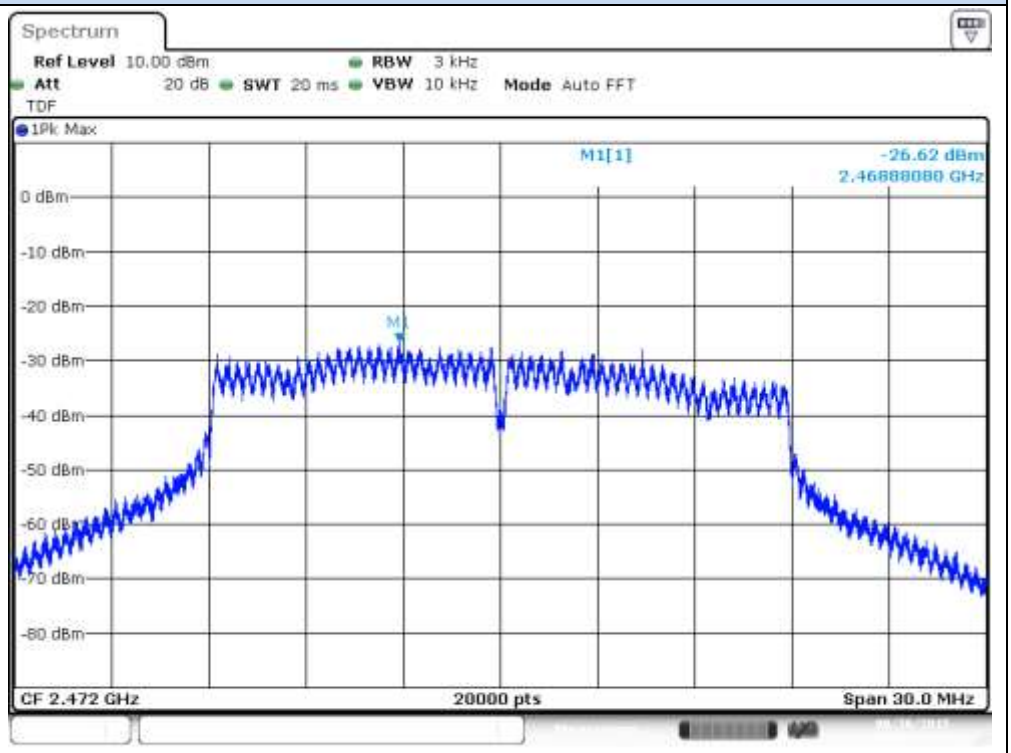
PSD Peak, Chain A - CH12



PSD Peak, Chain B - CH12

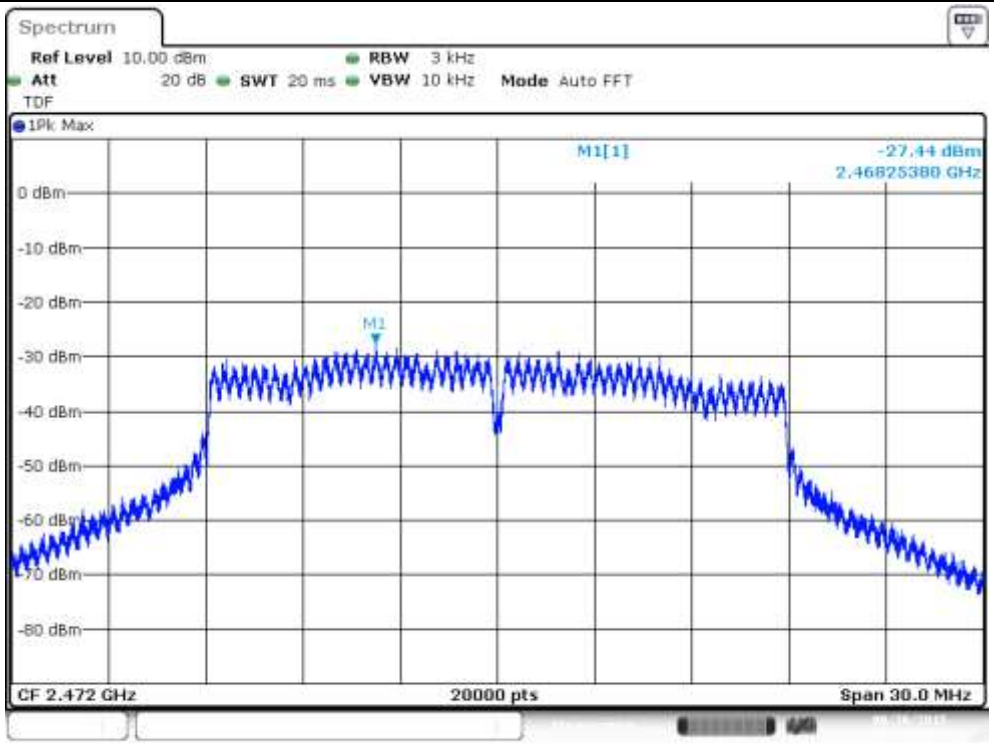


PSD Peak, Chain A - CH13



Date: 26.AUG.2015 11:00:02

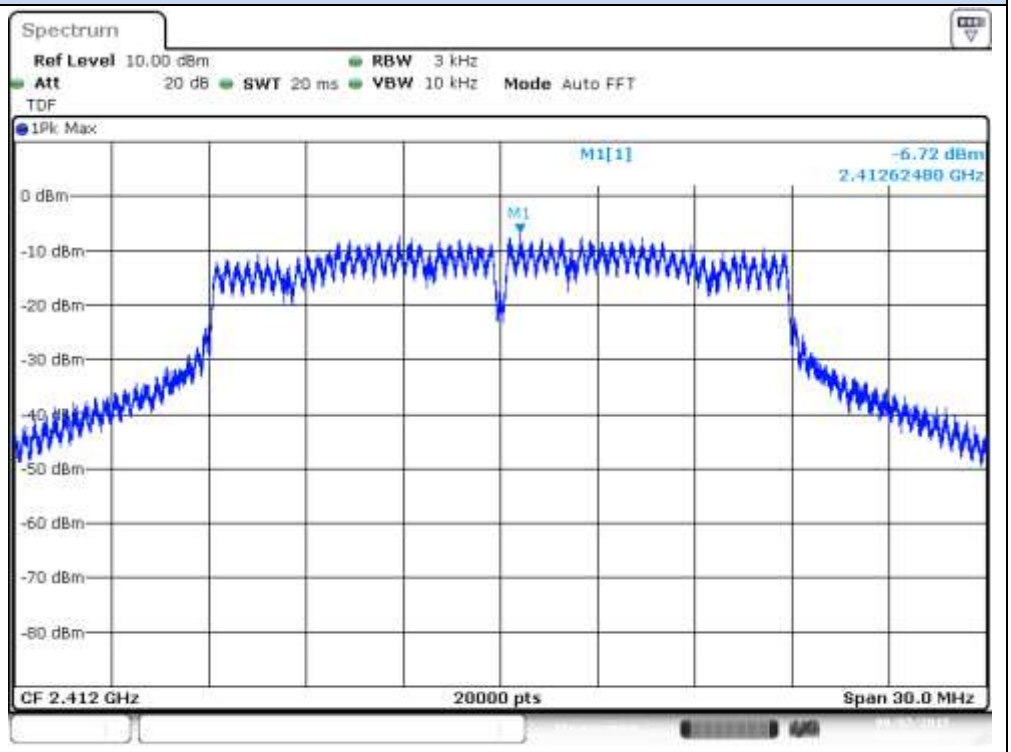
PSD Peak, Chain B - CH13



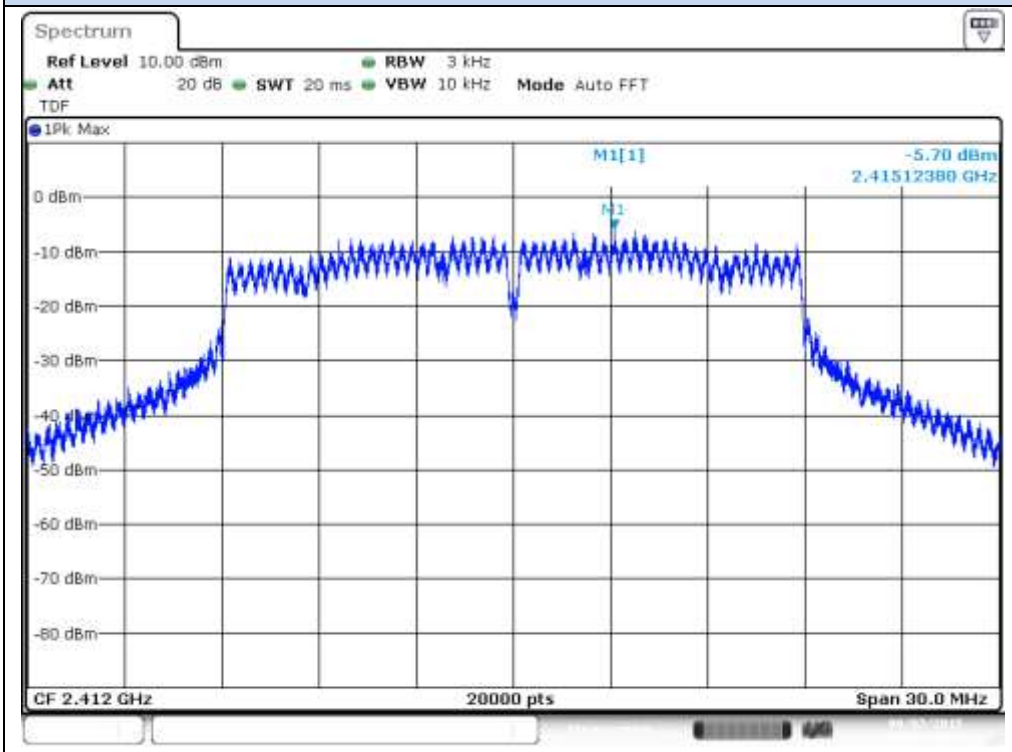
Date: 26.AUG.2015 16:24:02

802.11n20, HT8 (MIMO)

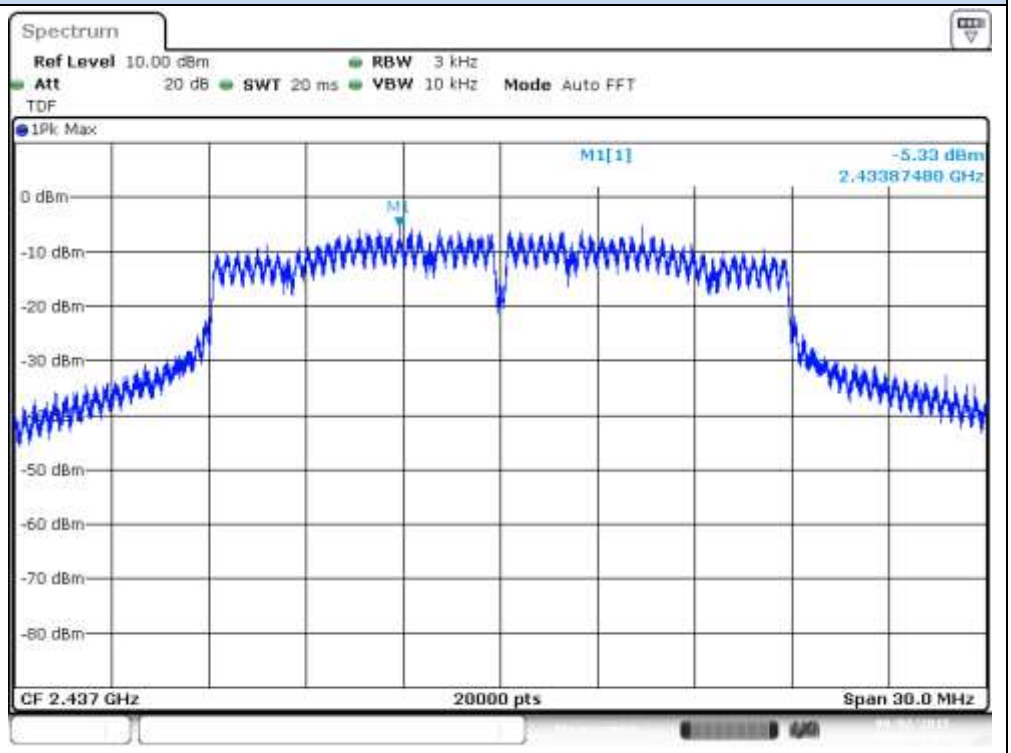
PSD Peak, Chain A - CH1



PSD Peak, Chain B - CH1

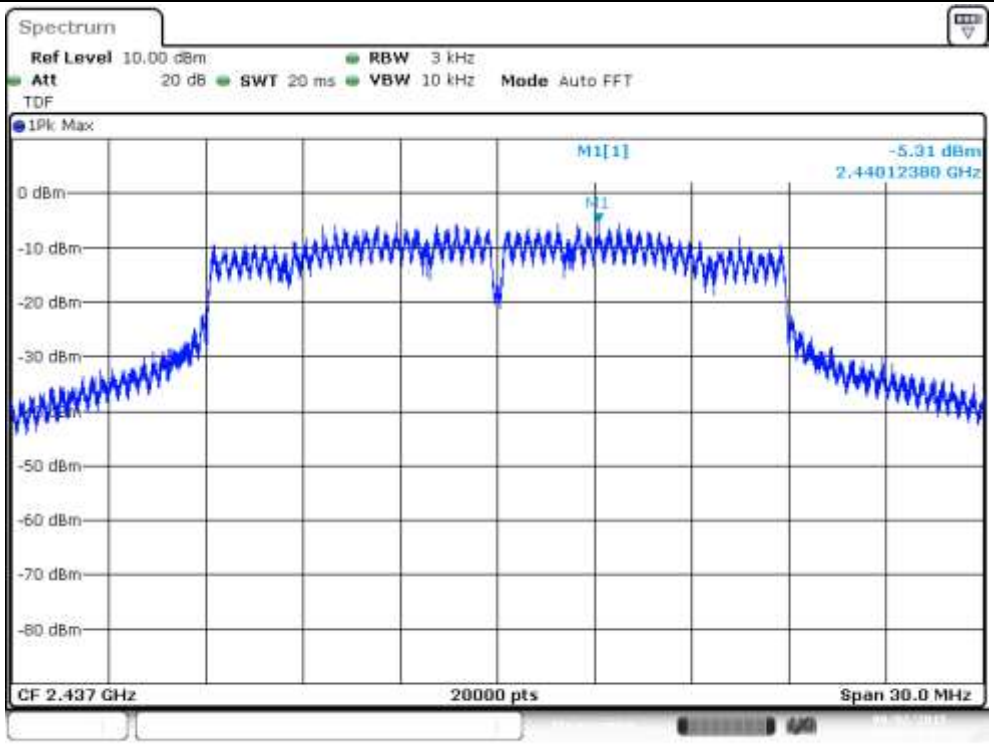


PSD Peak, Chain A – CH6



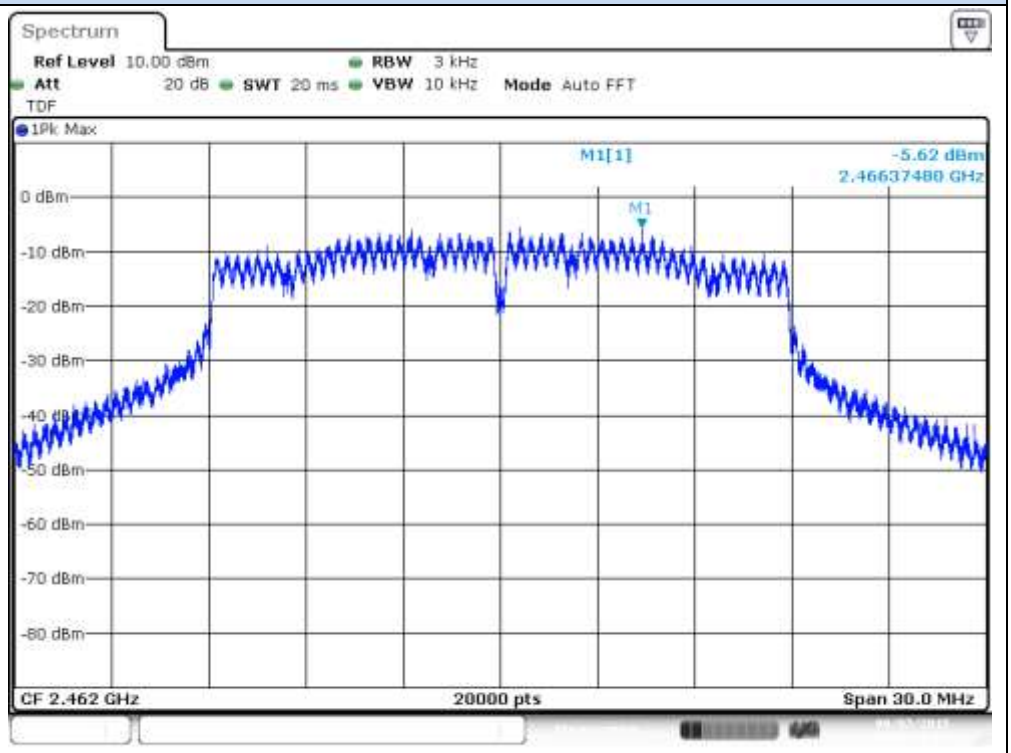
Date: 2.SEP.2015 16:44:37

PSD Peak, Chain B – CH6



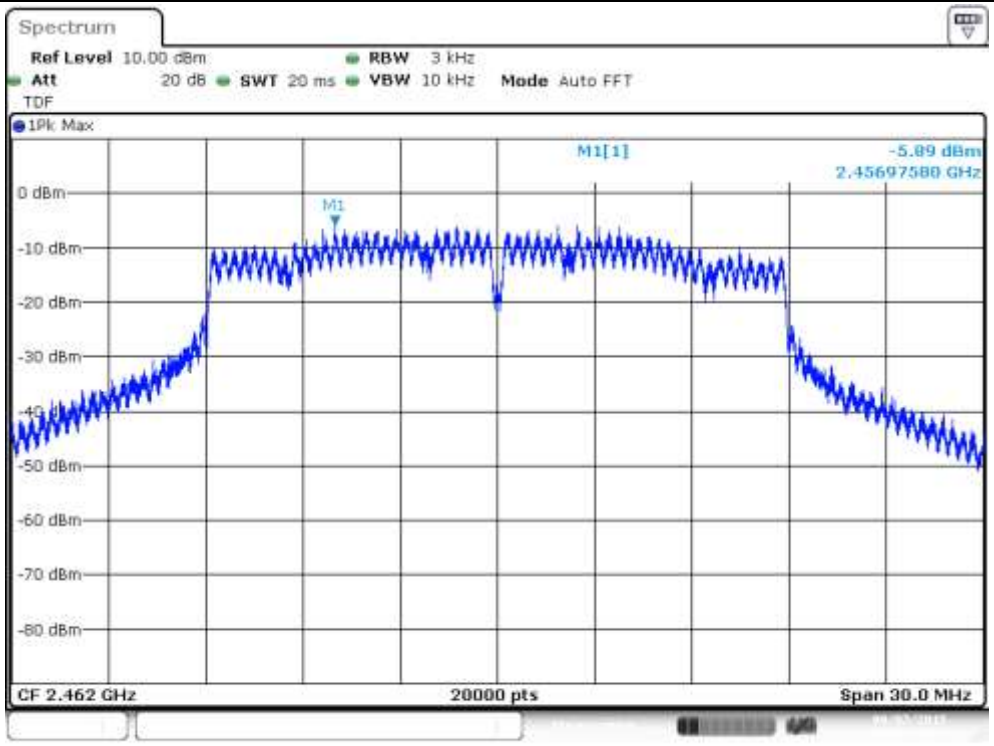
Date: 2.SEP.2015 18:05:28

PSD Peak, Chain A - CH11



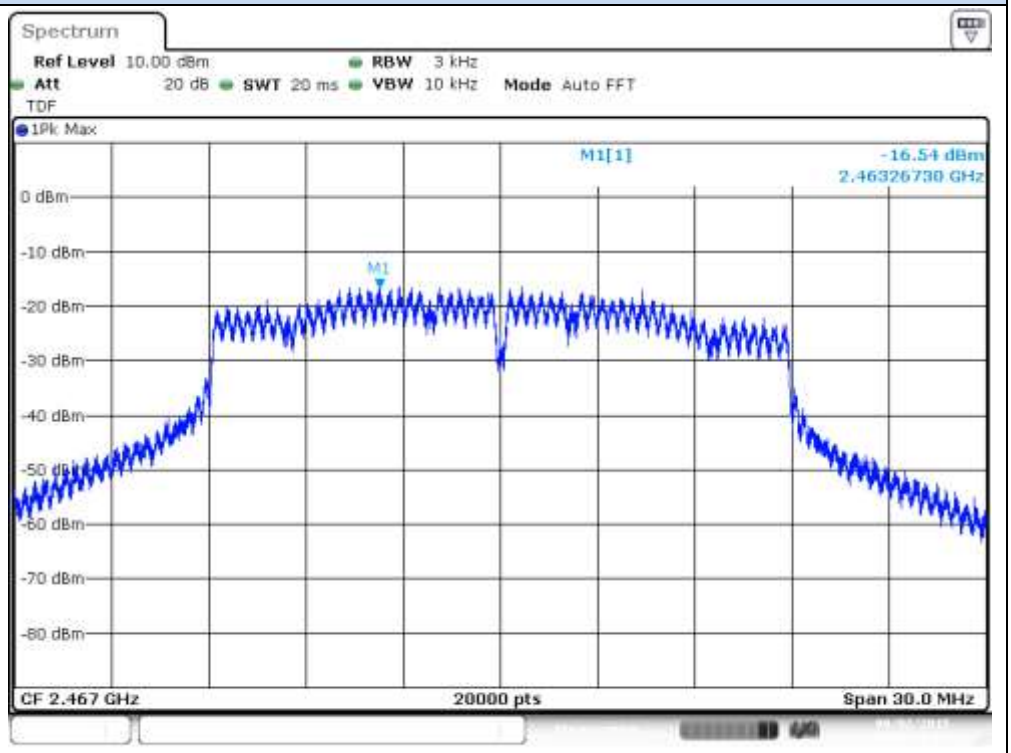
Date: 7.SEP.2015 14:22:40

PSD Peak, Chain B - CH11



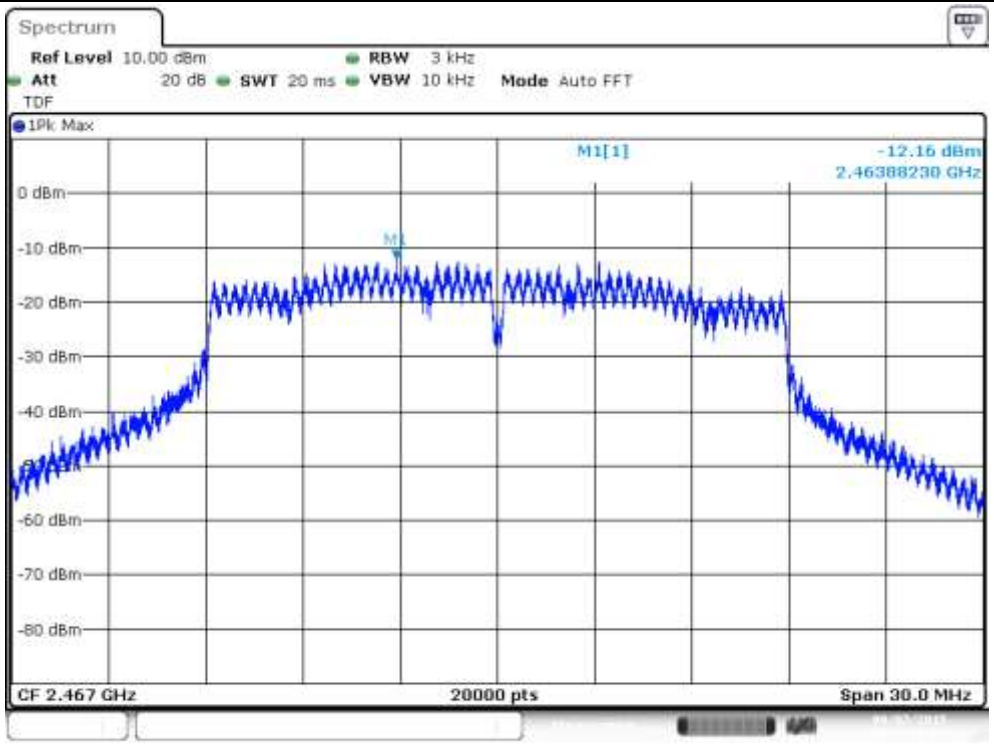
Date: 7.SEP.2015 16:31:36

PSD Peak, Chain A - CH12



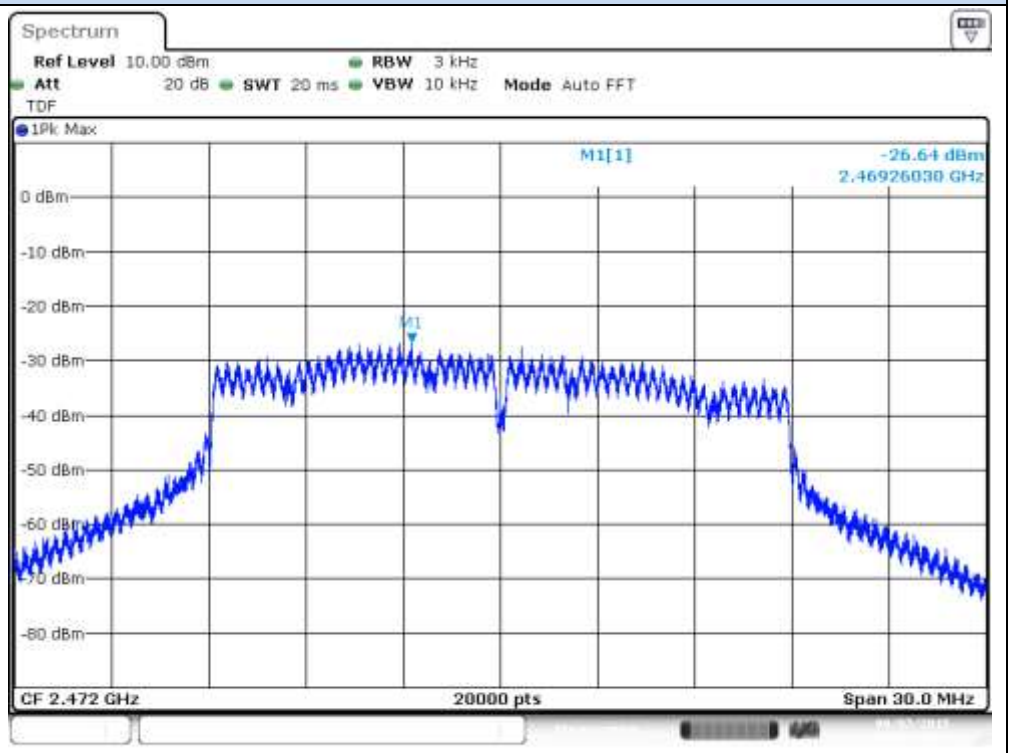
Date: 2.SEP.2015 16:59:59

PSD Peak, Chain B - CH12



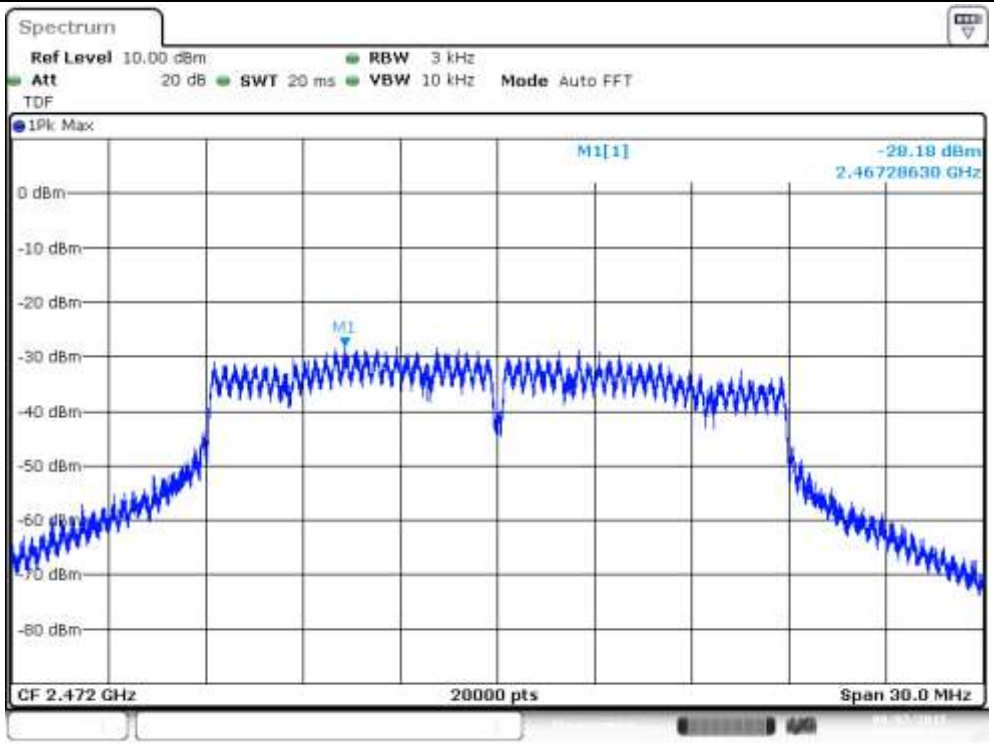
Date: 7.SEP.2015 16:37:39

PSD Peak, Chain A - CH13



Date: 7.SEP.2015 14:36:37

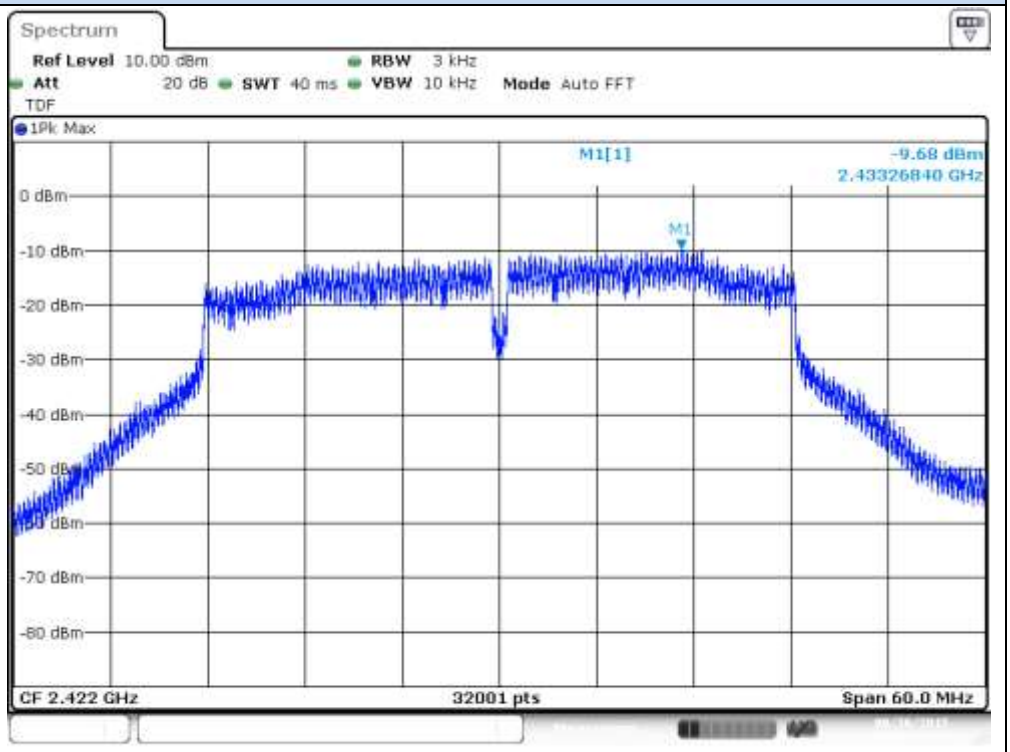
PSD Peak, Chain B - CH13



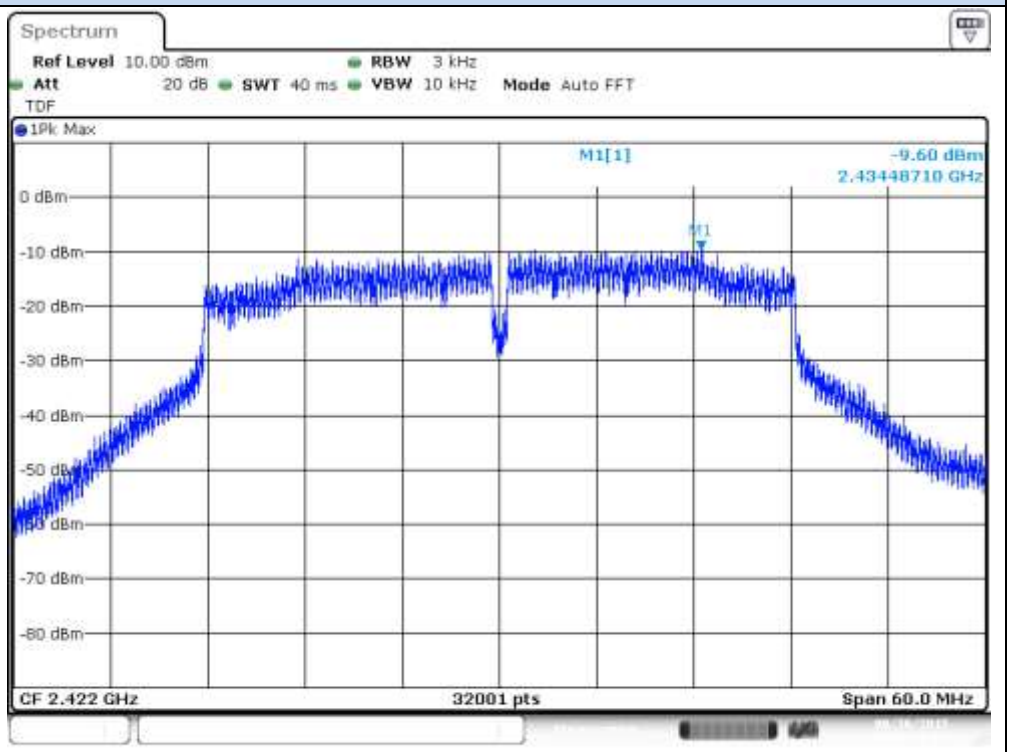
Date: 7.SEP.2015 16:43:00

802.11n40, HT0 (SISO)

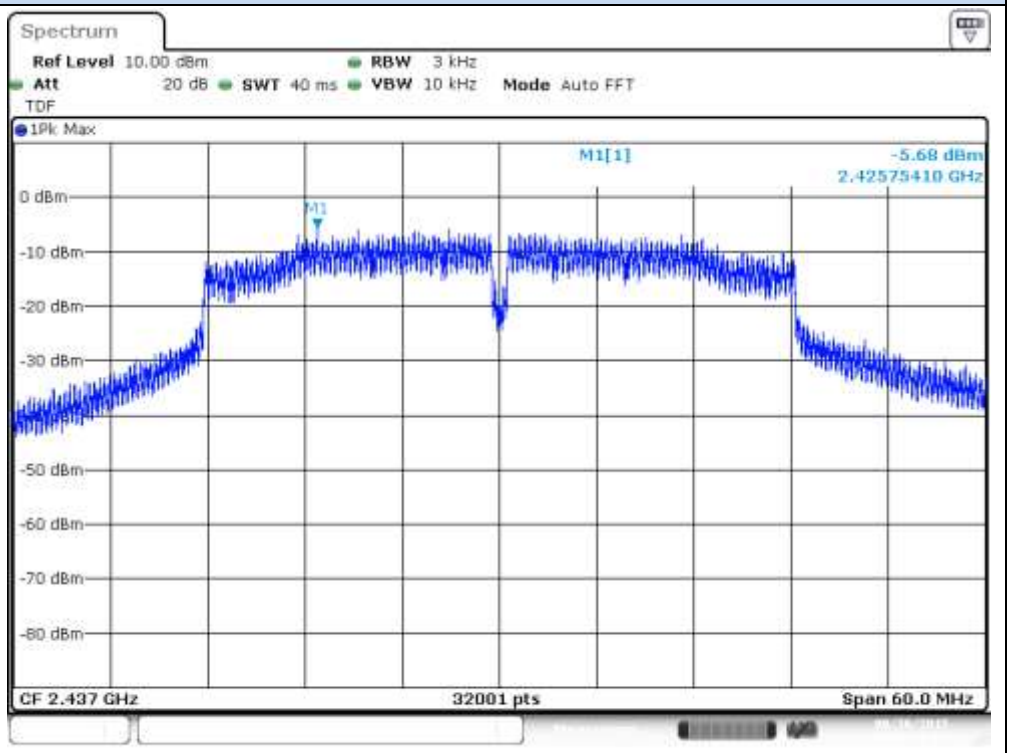
PSD Peak, Chain A – CH3F



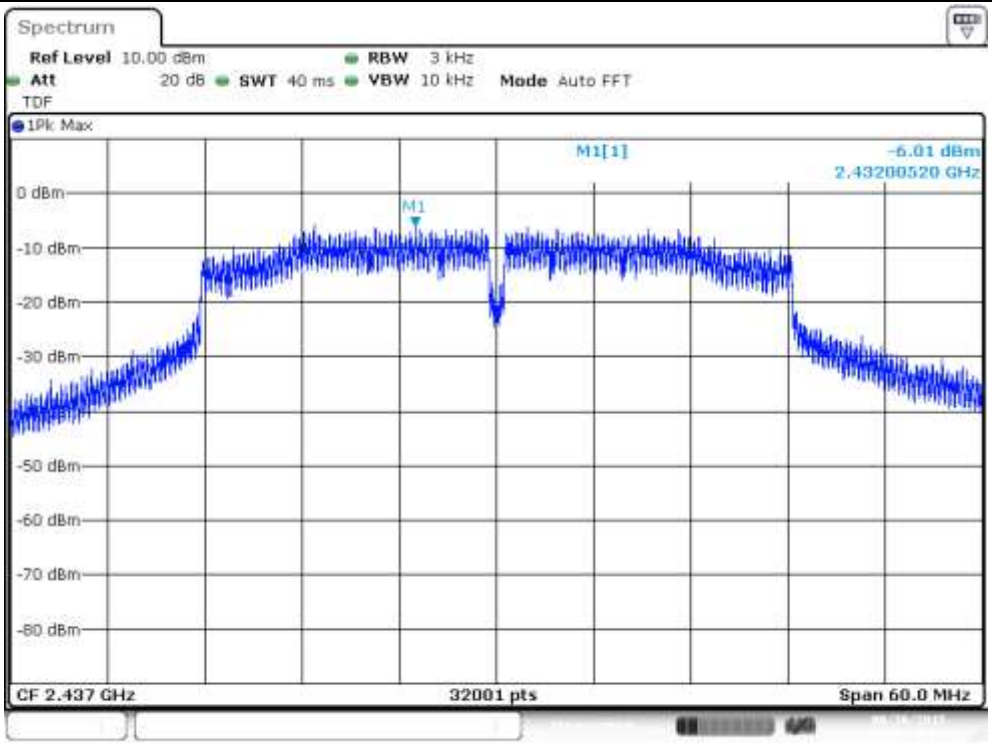
PSD Peak, Chain B – CH3F



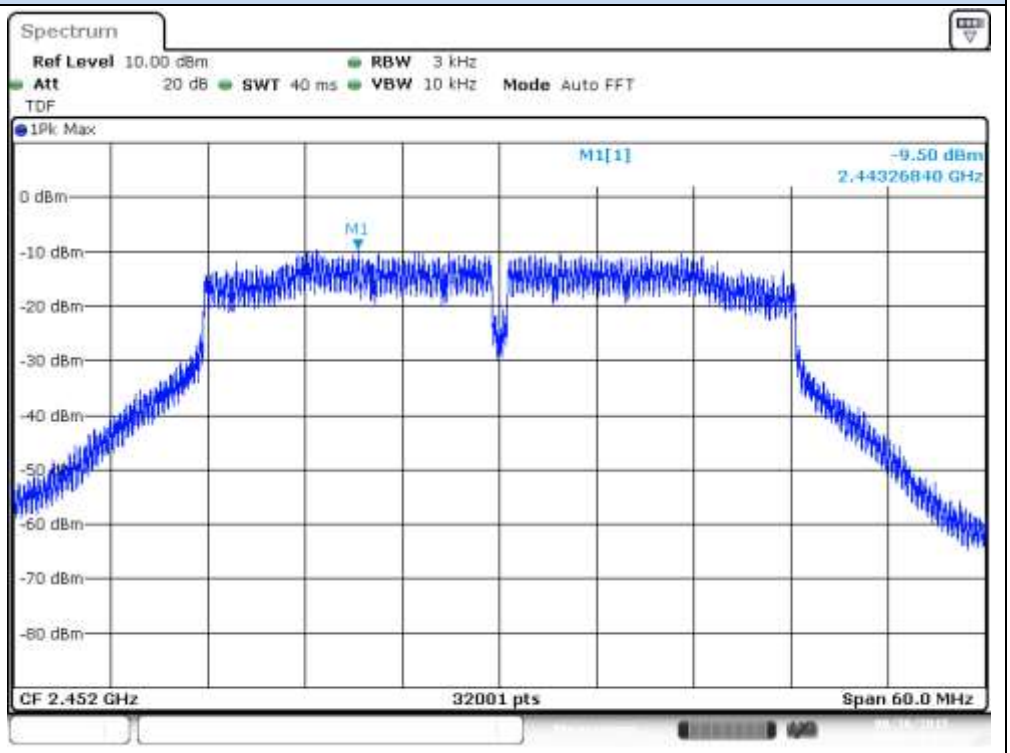
PSD Peak, Chain A – CH6F



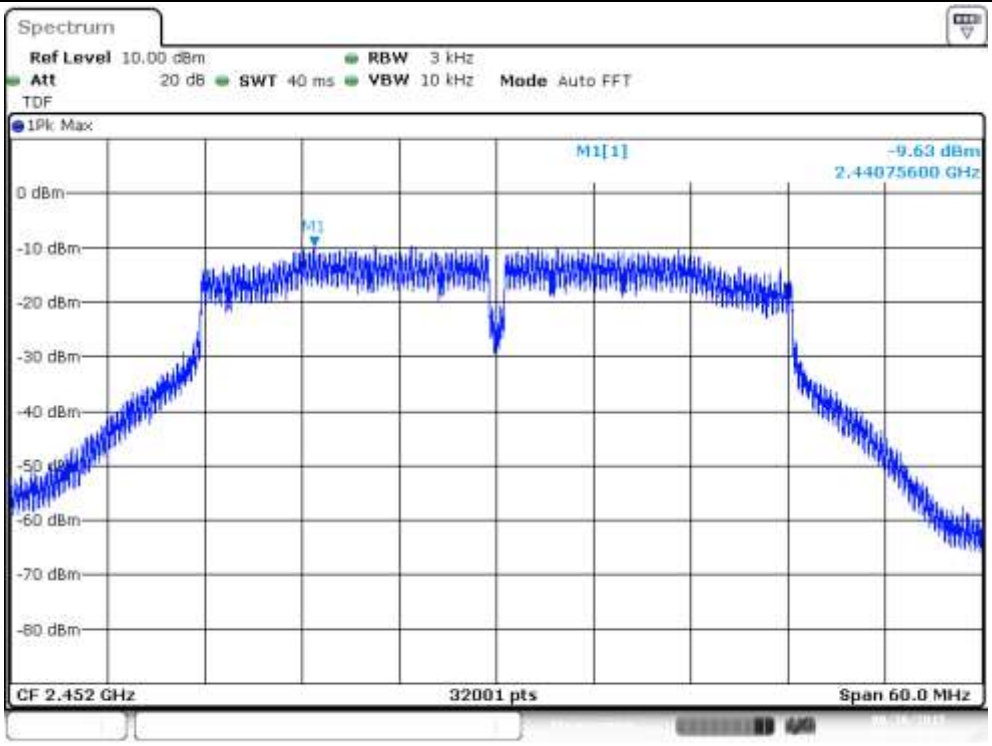
PSD Peak, Chain B – CH6F



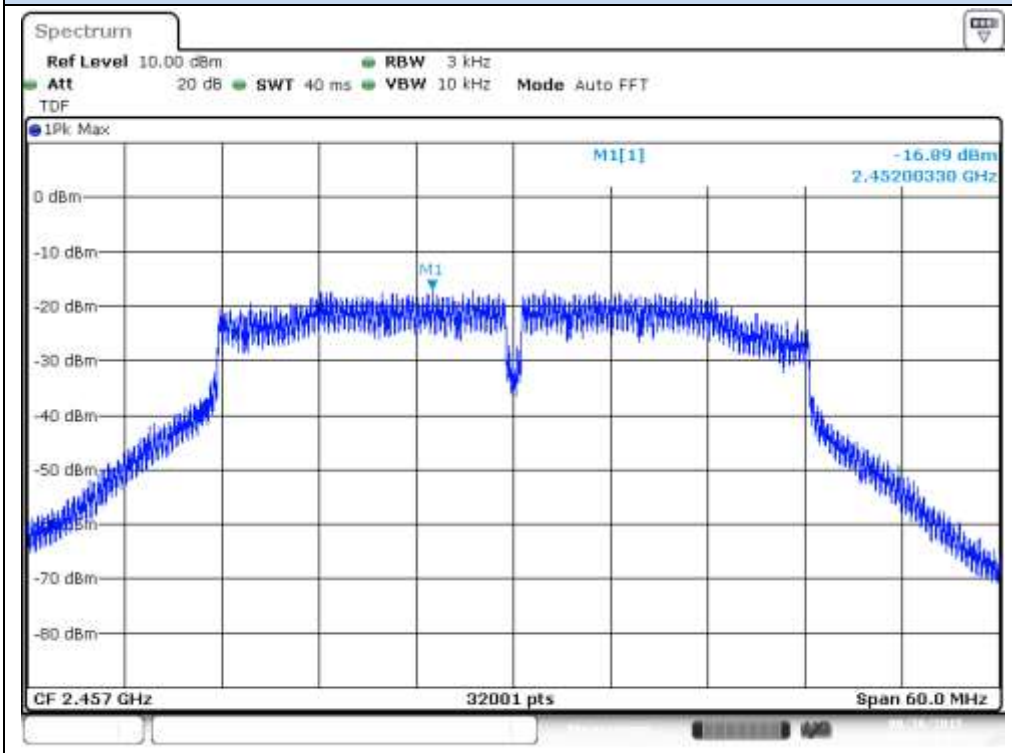
PSD Peak, Chain A – CH9F



PSD Peak, Chain B – CH9F

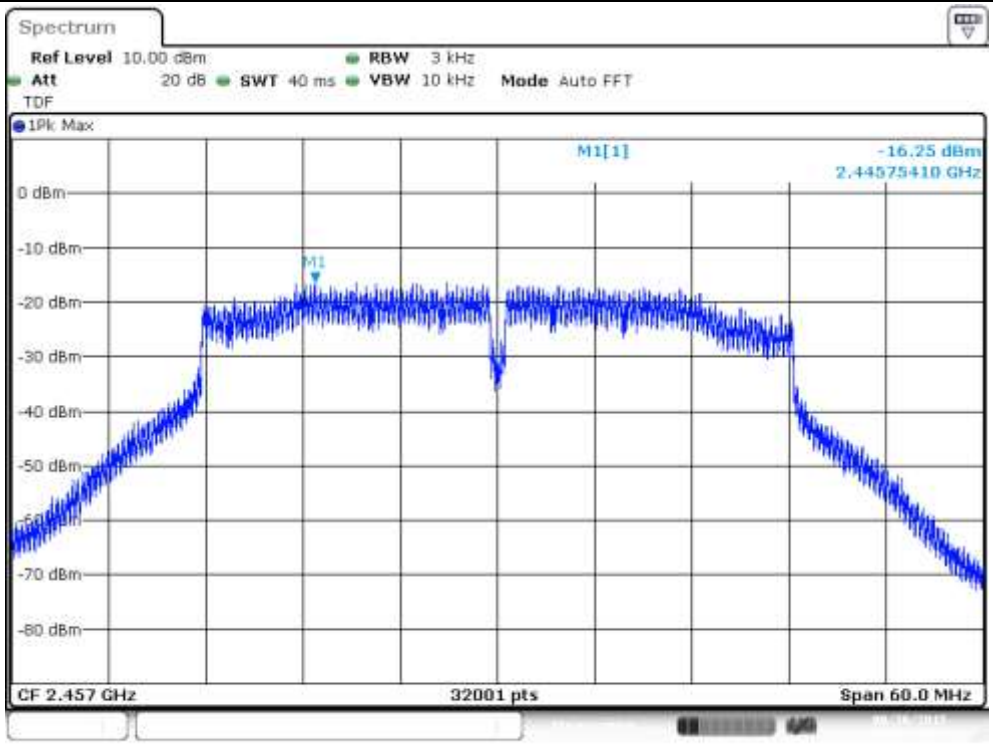


PSD Peak, Chain A - CH10F



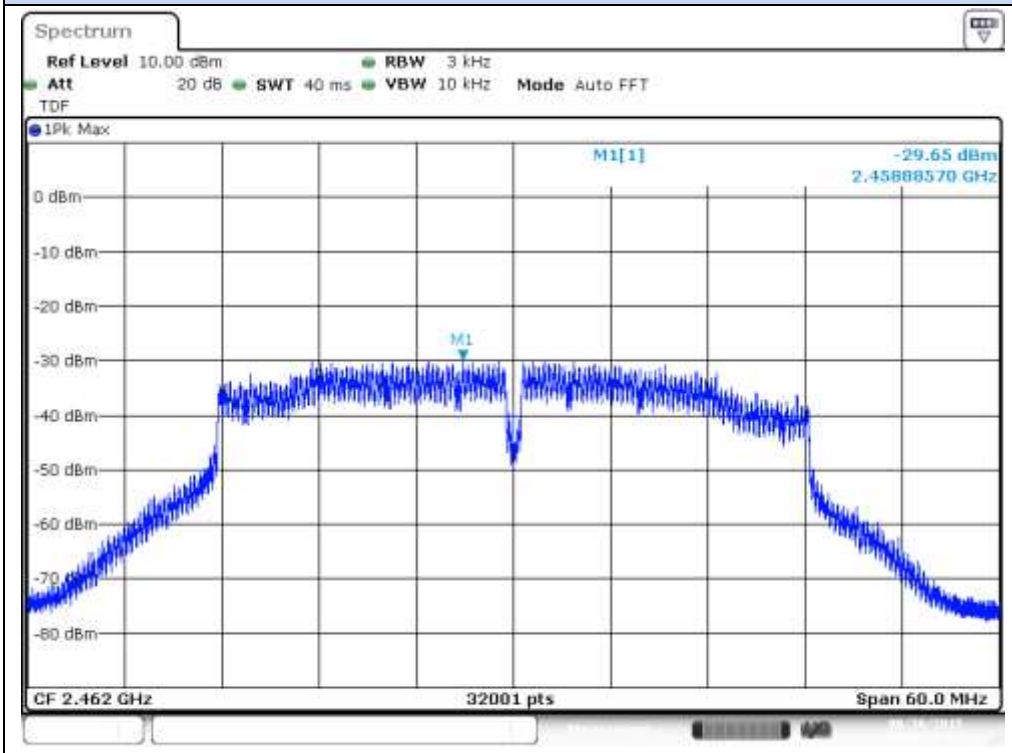
Date: 26.AUG.2015 11:36:04

PSD Peak, Chain B - CH10F



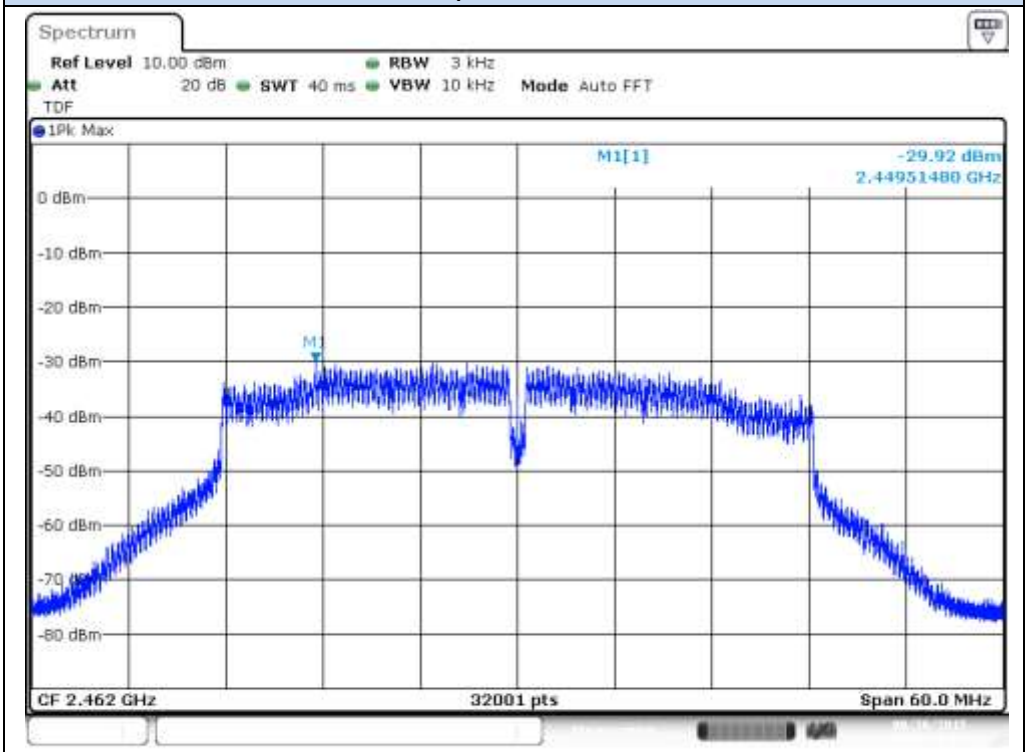
Date: 26.AUG.2015 17:44:32

PSD Peak, Chain A - CH11F



Date: 26.AUG.2015 11:43:26

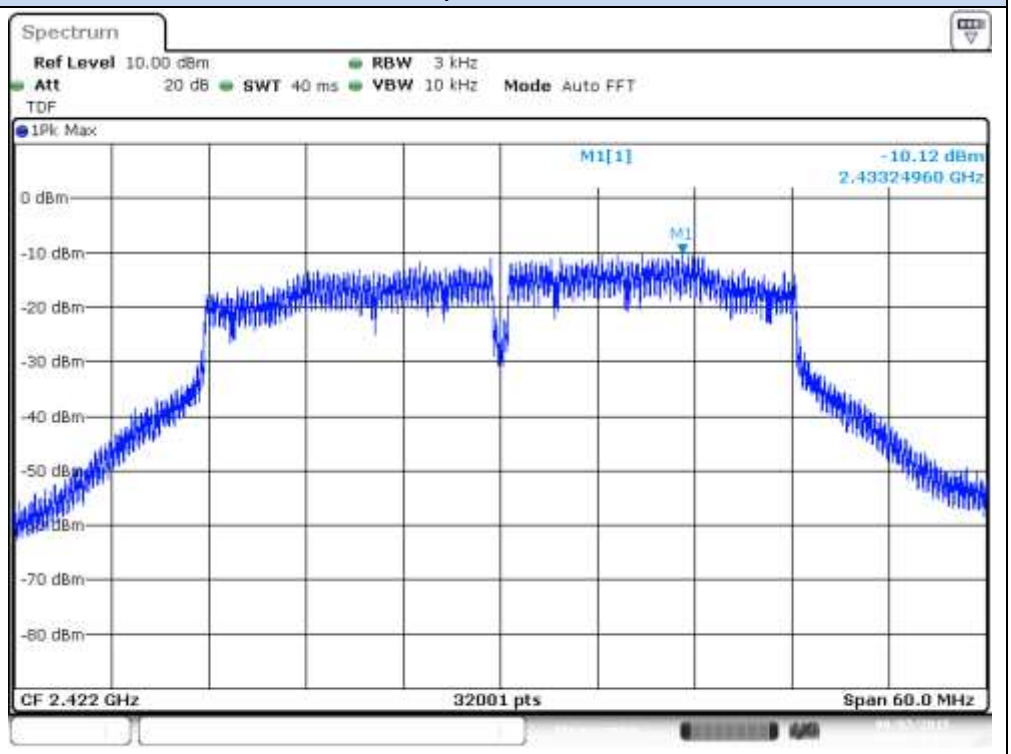
PSD Peak, Chain B - CH11F



Date: 26.AUG.2015 17:52:02

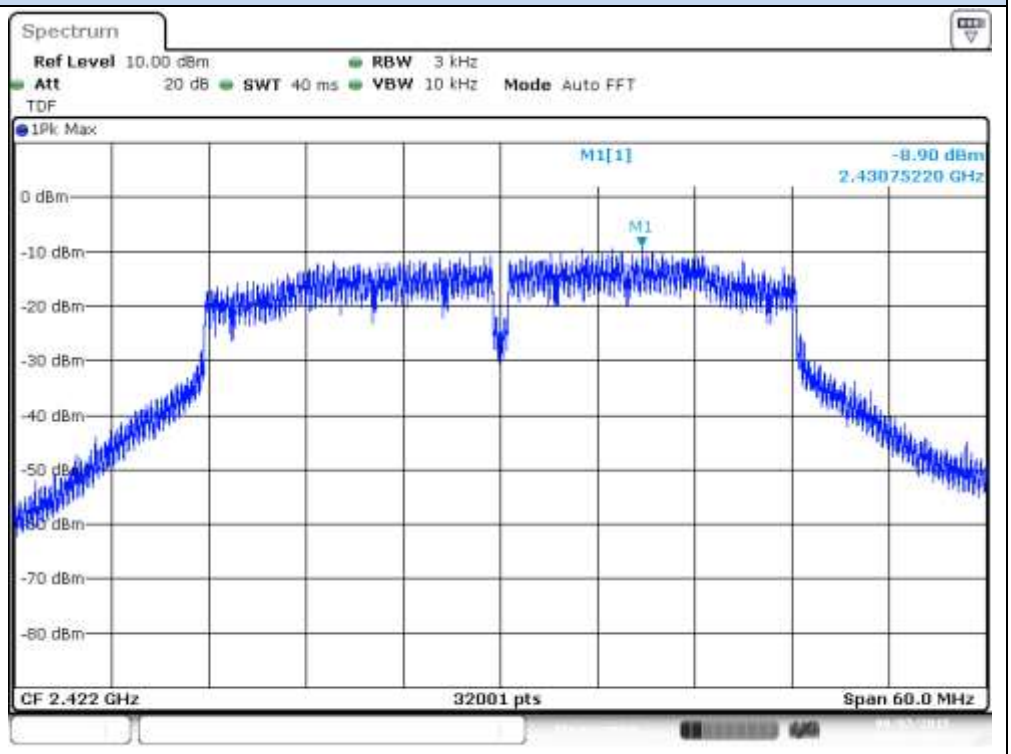
802.11n40. HT8 (MIMO)

PSD Peak, Chain A – CH3F



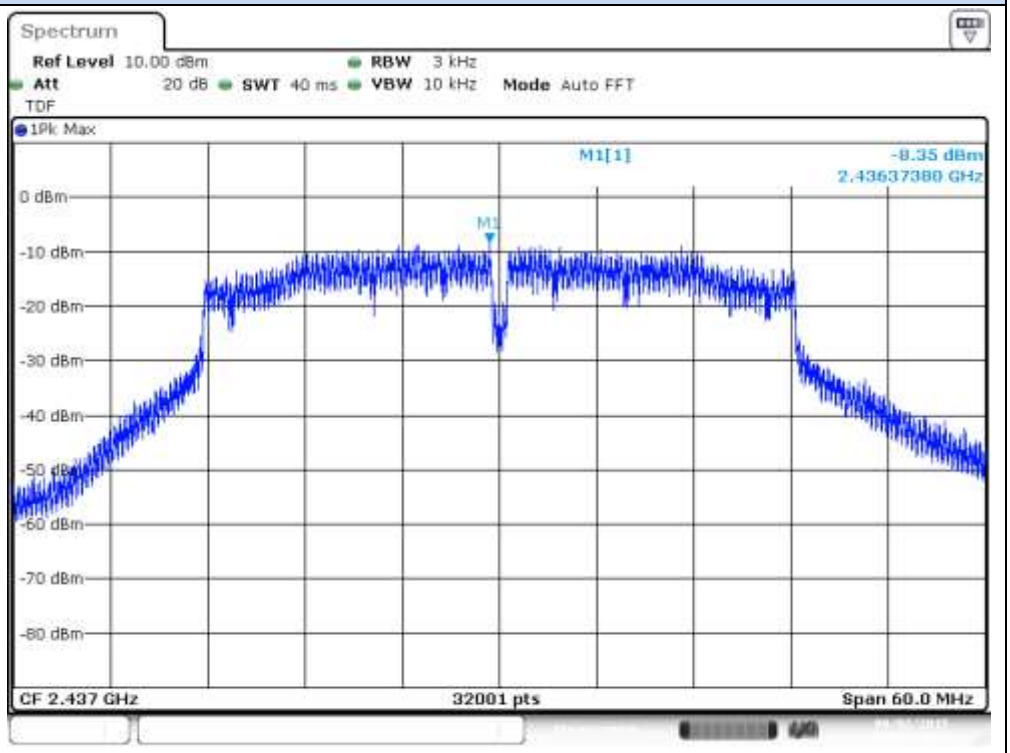
Date: 7.SEP.2015 14:43:26

PSD Peak, Chain B – CH3F

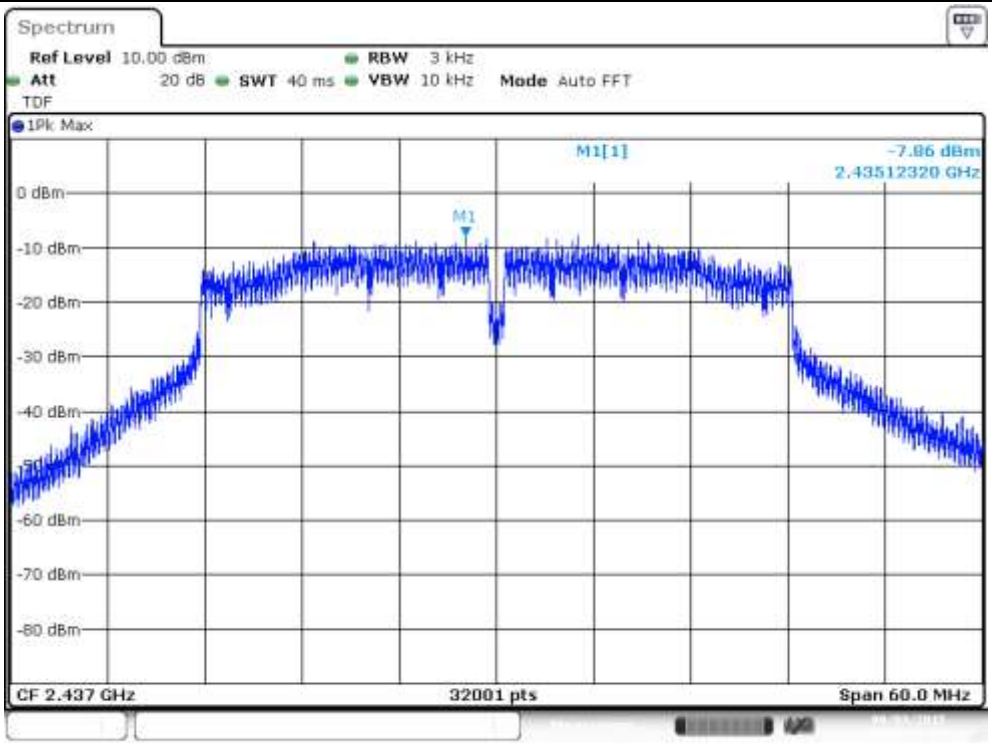


Date: 7.SEP.2015 16:51:11

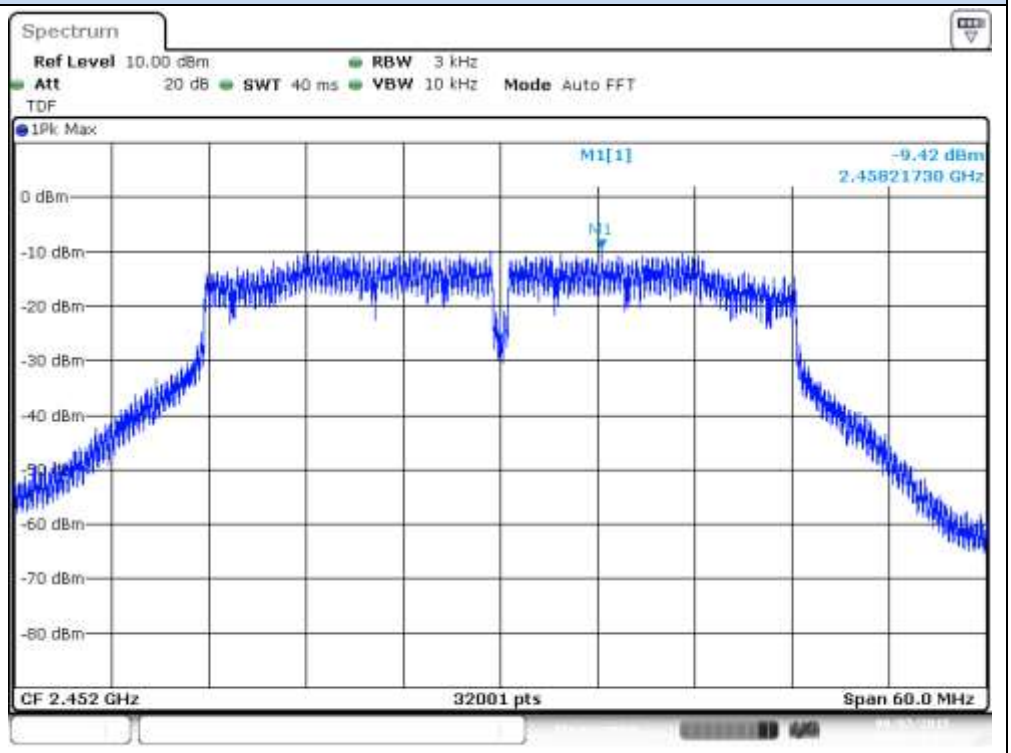
PSD Peak, Chain A – CH6F



PSD Peak, Chain B – CH6F

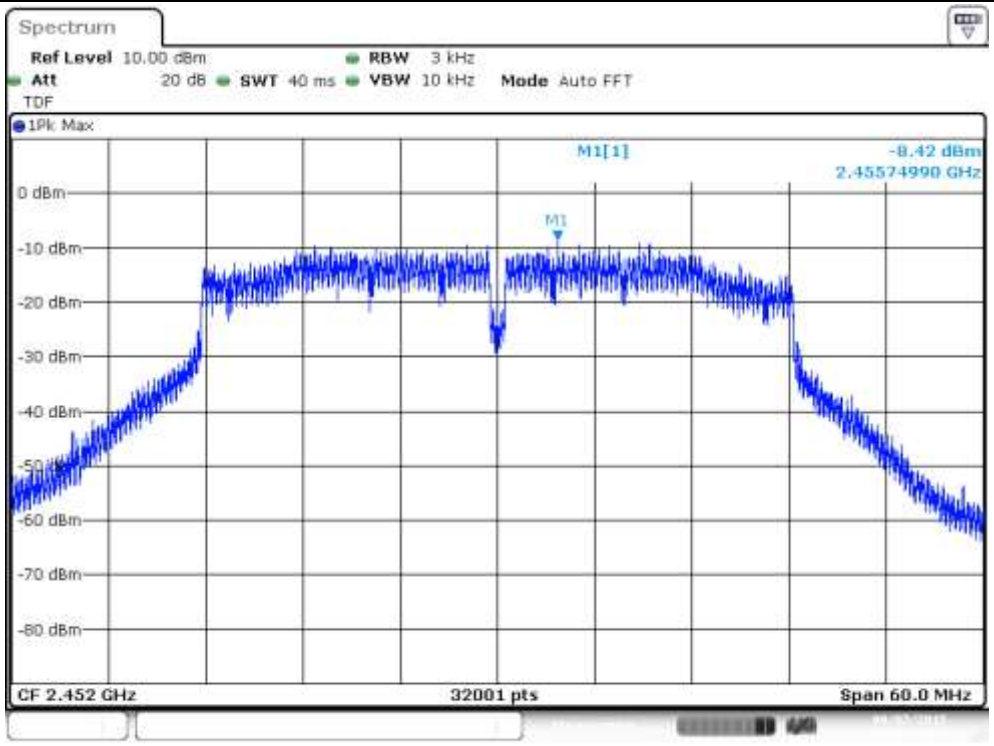


PSD Peak, Chain A – CH9F



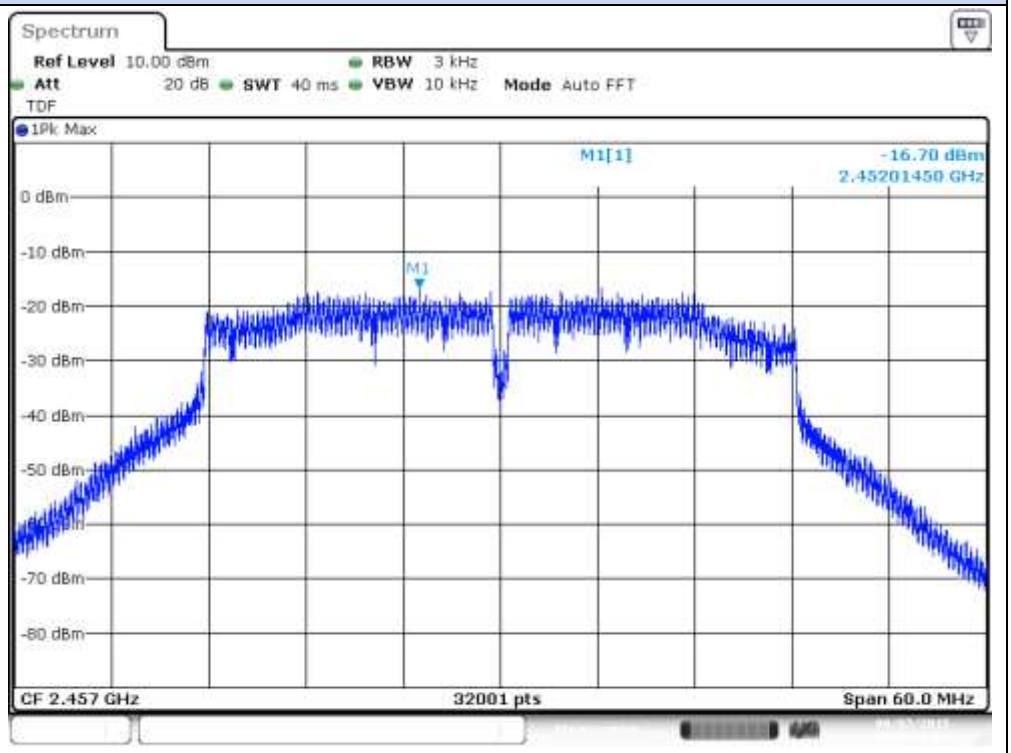
Date: 7.SEP.2015 14:50:47

PSD Peak, Chain B – CH9F



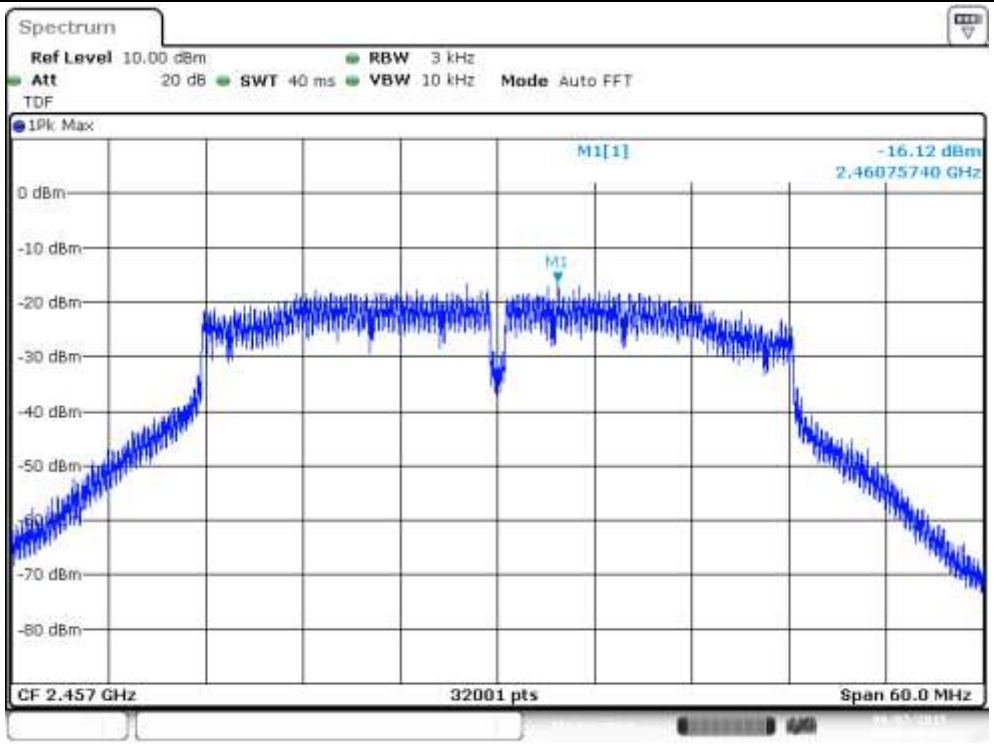
Date: 7.SEP.2015 16:58:42

PSD Peak, Chain A - CH10F



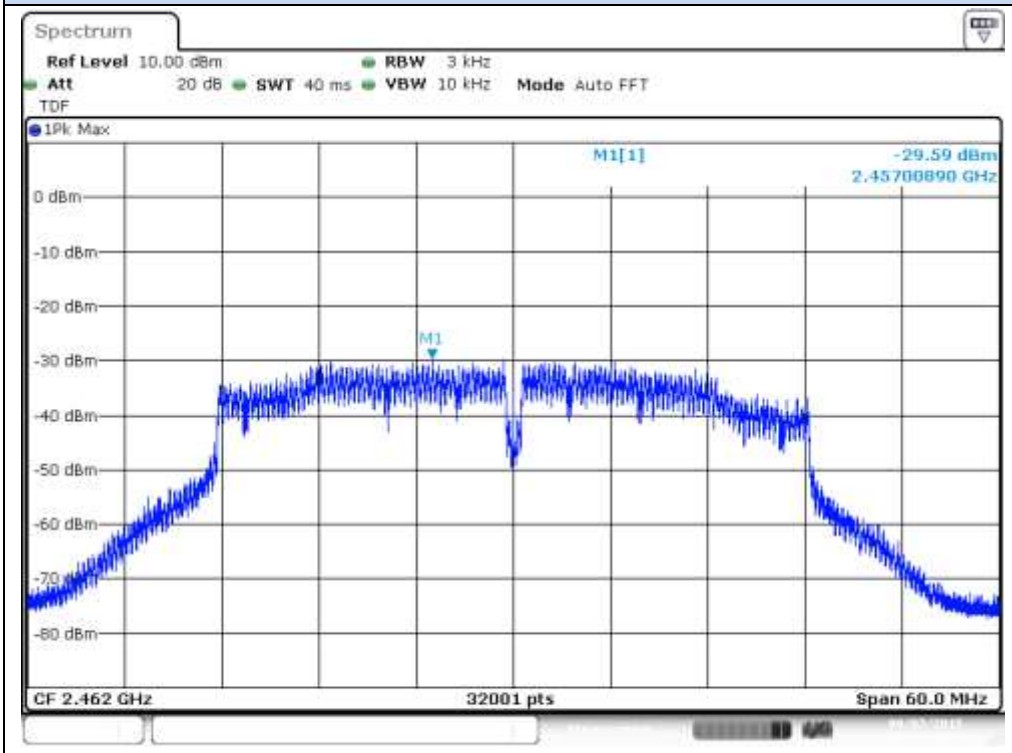
Date: 7.SEP.2015 14:57:10

PSD Peak, Chain B - CH10F

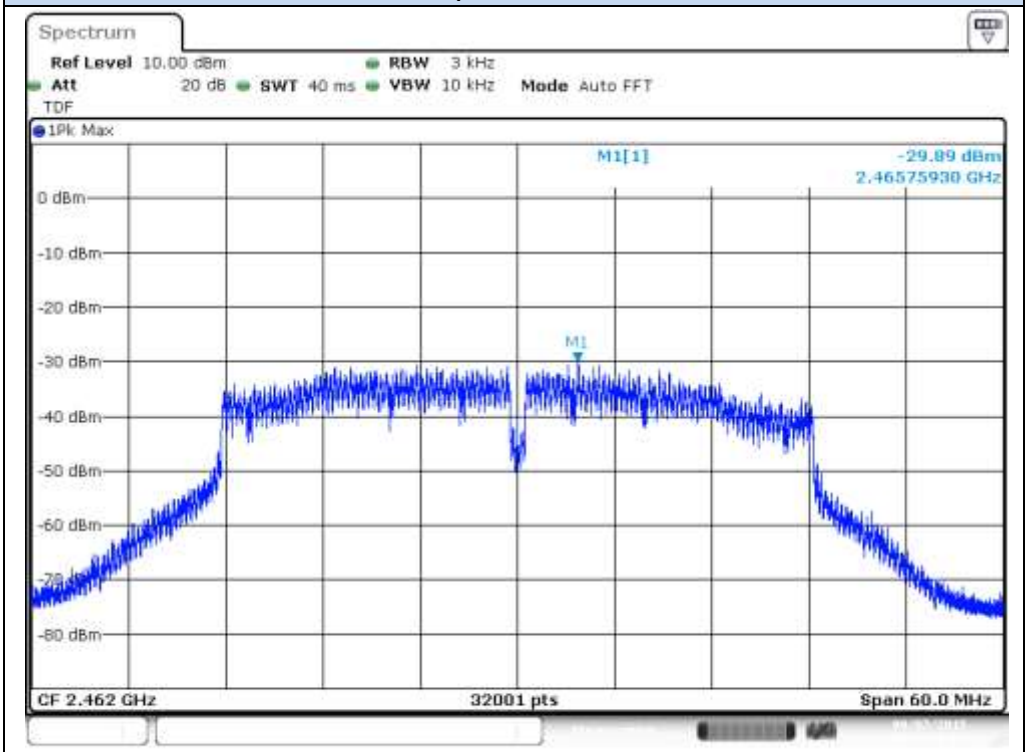


Date: 7.SEP.2015 17:04:39

PSD Peak, Chain A - CH11F



PSD Peak, Chain B - CH11F



B.5 Radiated spurious emission

Standard references:

FCC part	RSS part	Limits
15.247 (d)	RSS-247 Clause 5.5	Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a):

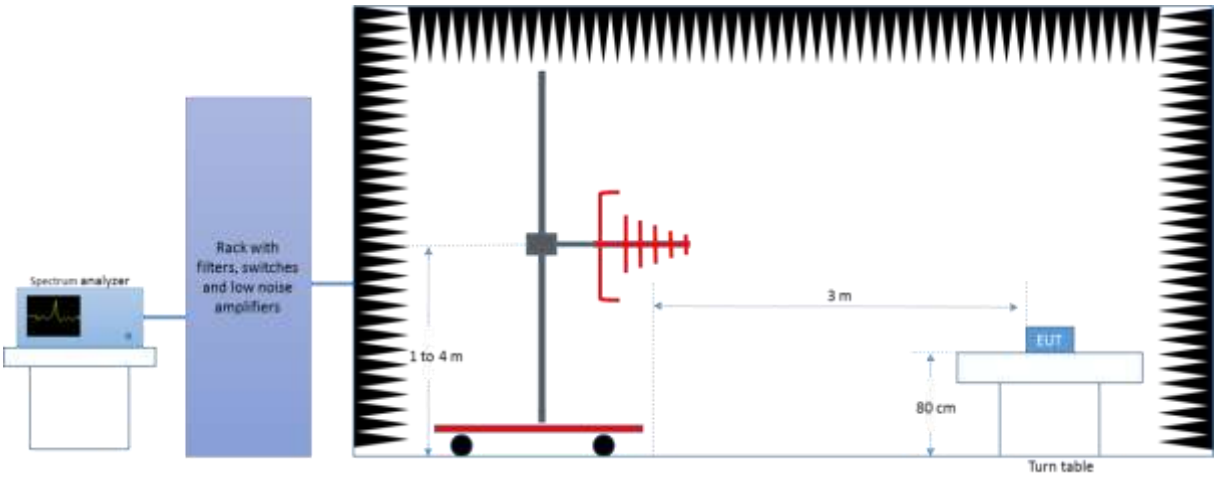
Freq Range (MHz)	Field Stregth (µV/m)	Field Stregth (dBµV/m)	Meas. Distance (m)
0.009-0.490	2400/f(kHz)	-	300
0.490-1.705	24000/f(kHz)	-	300
1.705-30.0	30	-	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
960-25000	500	54	3

The emission limits shown in the above table are based on measurements employing CISPR quasi-peak detector except for the frequency bands 9-90 kHz. 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
For average radiated emission measurements above 1000 MHz. there is also a limit specified when measuring with peak detector function corresponding to 20 dB above the indicated values in the table.

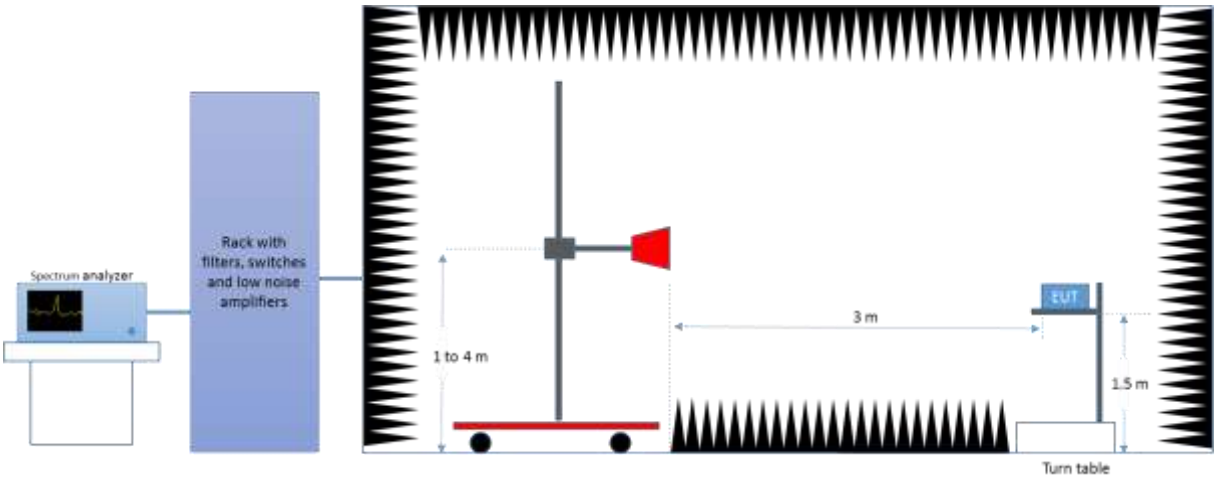
Test procedure:

The setups below were used to measure the radiated spurious emissions.
Depending of the frequency range and bands being tested, different antennas and filters were used.
The final measurement is done by varying the antenna height from 1 to 4 meters, the EUT azimuth over 360º and for both Vertical and Horizontal polarizations.
The radiated spurious emissions were measured on the worst case configuration selected from the chapter *B.2 Maximum Output Power and antenna* gain and using the lowest, middle and highest channels.

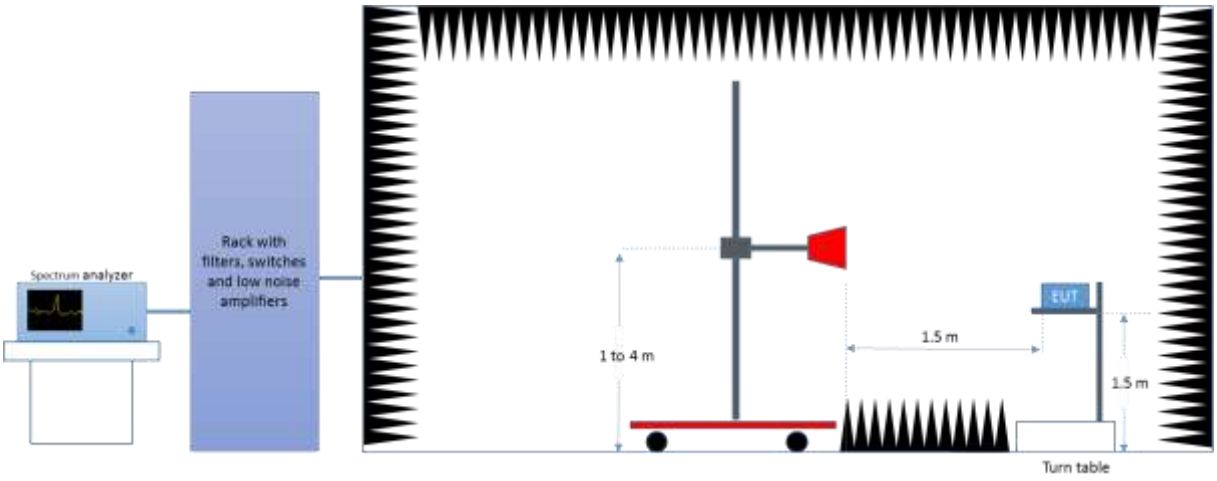
Radiated Setup < 1GHz



Radiated Setup 1GHz - 18GHz



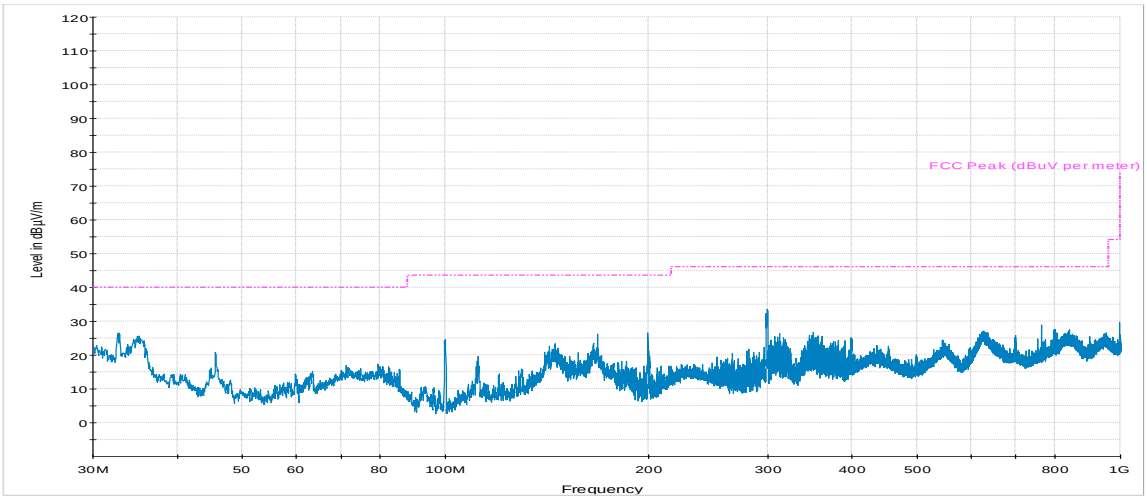
Radiated Setup > 18GHz



Test Results:

All modes

Radiated Spurious – 30MHz - 1GHz

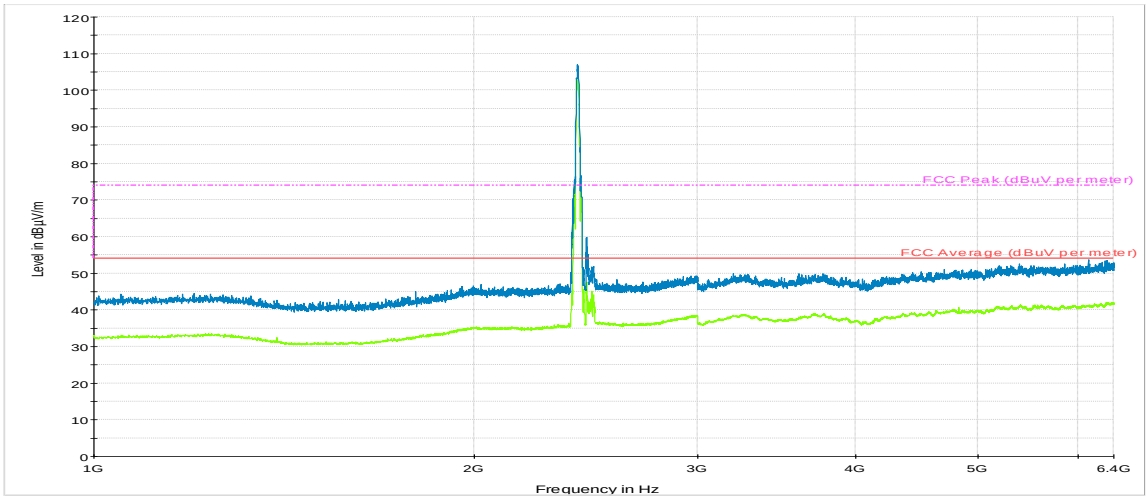


Frequency	Max Peak	Limit	Margin
MHz	dBµV/m	dBµV/m	dB
299	33	46	13

Note 1: The spurious signals detected do not depend on either the operating channel or the modulation mode.
Note 2: No spurious signals were found in all modulations and channels tested.
Note 3: This plot is valid for both SISO and MIMO modes.

802.11b, 1Mbps, Chain A

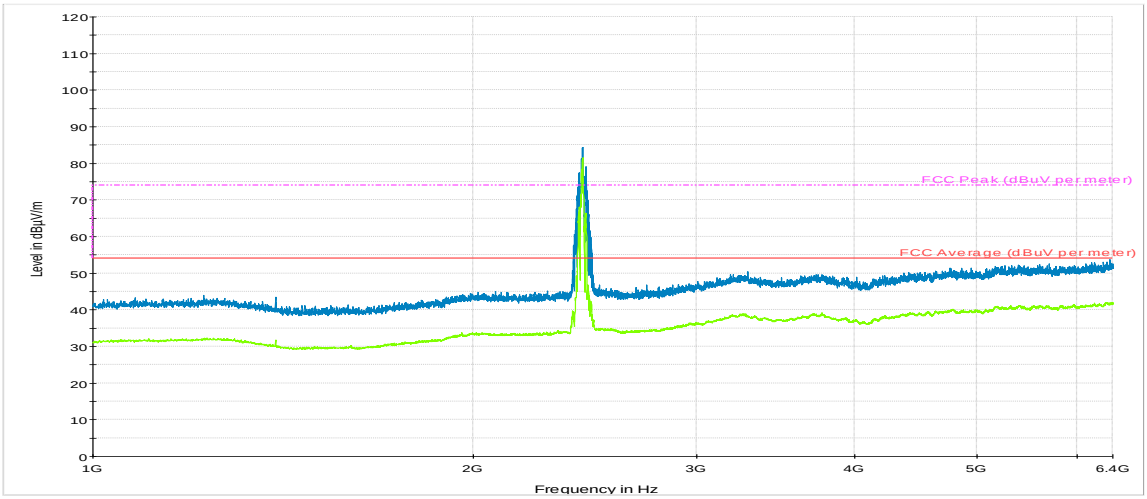
Radiated Spurious – 1 GHz - 6.4GHz - CH1



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
2964	49.2	---	74	24.8
2964	---	38.5	54	15.5

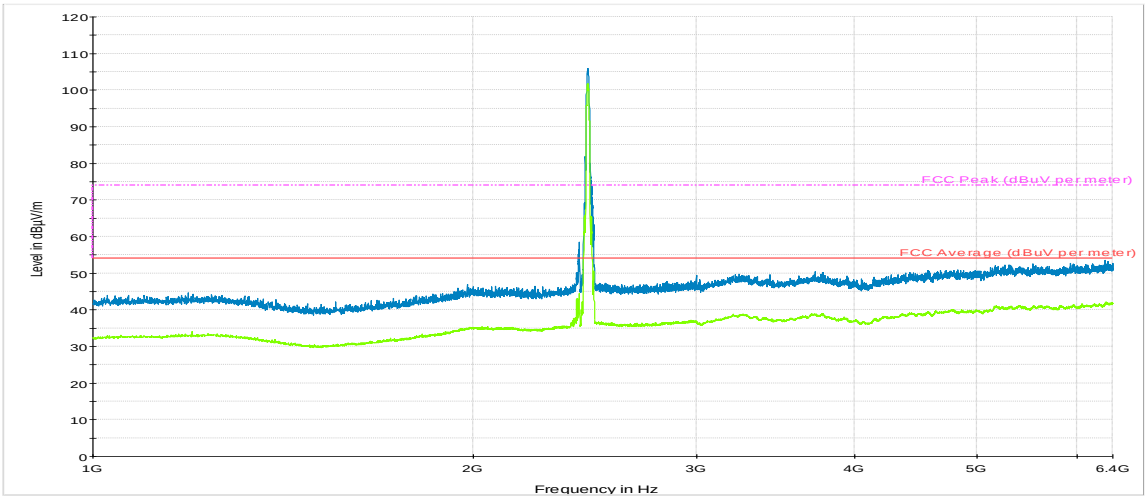
Radiated Spurious – 1 GHz - 6.4GHz - CH6



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6366	53.7	---	74	20.3
6366	---	42.0	54	12.0

Radiated Spurious – 1 GHz - 6.4GHz - CH11

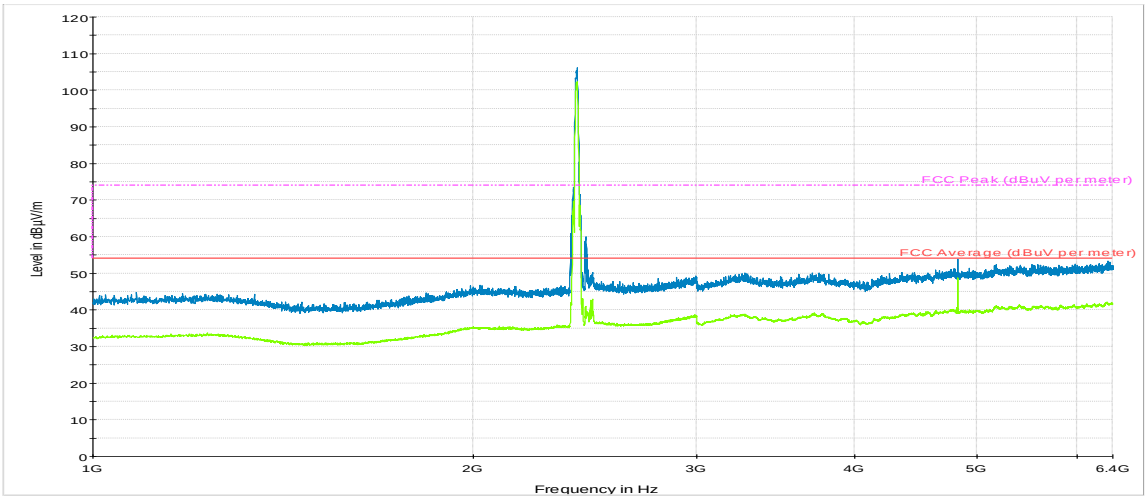


Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6315	53.5	---	74	20.5
6315	---	41.6	54	12.4

802.11b, 1Mbps, Chain B

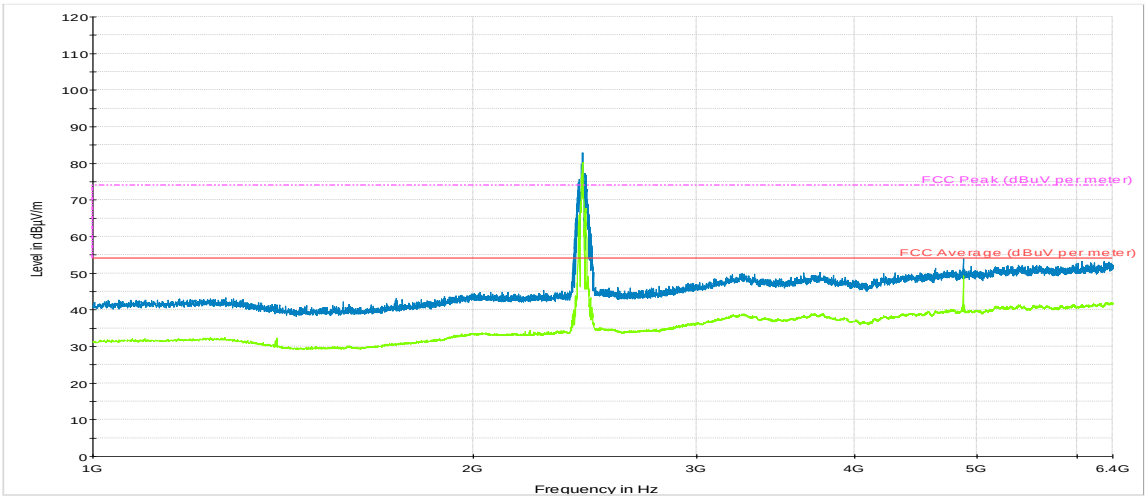
Radiated Spurious – 1 GHz - 6.4GHz - CH1



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
4823	56.1	---	74	17.9
4823	---	50.8	54	3.2

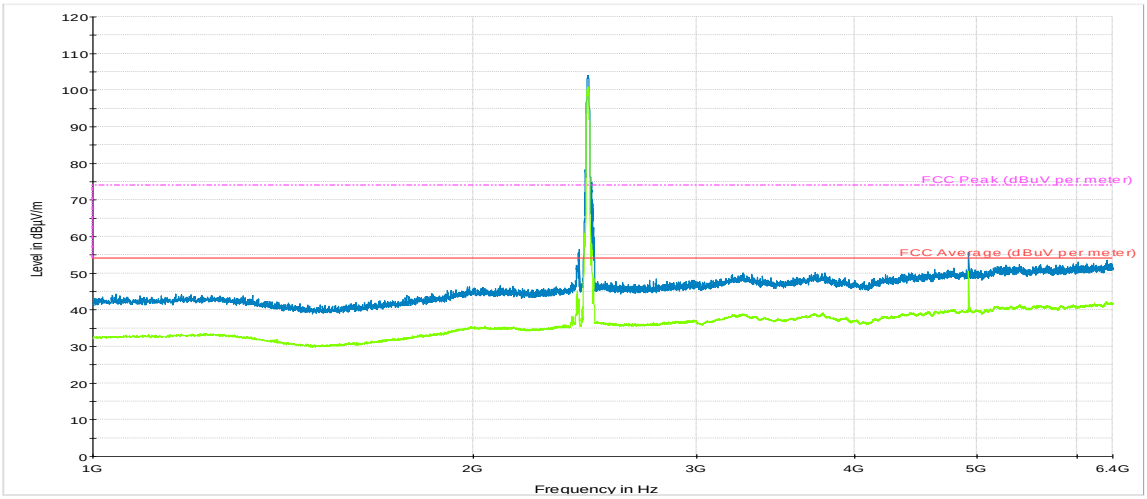
Radiated Spurious – 1 GHz - 6.4GHz - CH6



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
4873	56.5	---	74	17.5
4873	---	50.9	54	3.1

Radiated Spurious – 1 GHz - 6.4GHz - CH11

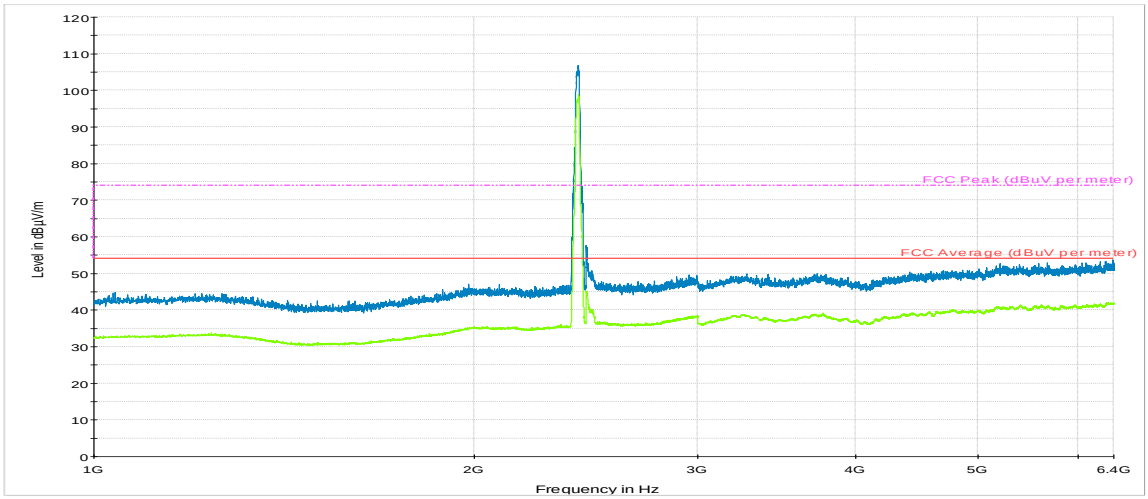


Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
4923	56.8	---	74	17.2
4923	---	51.8	54	2.2

802.11g, 6Mbps, Chain A

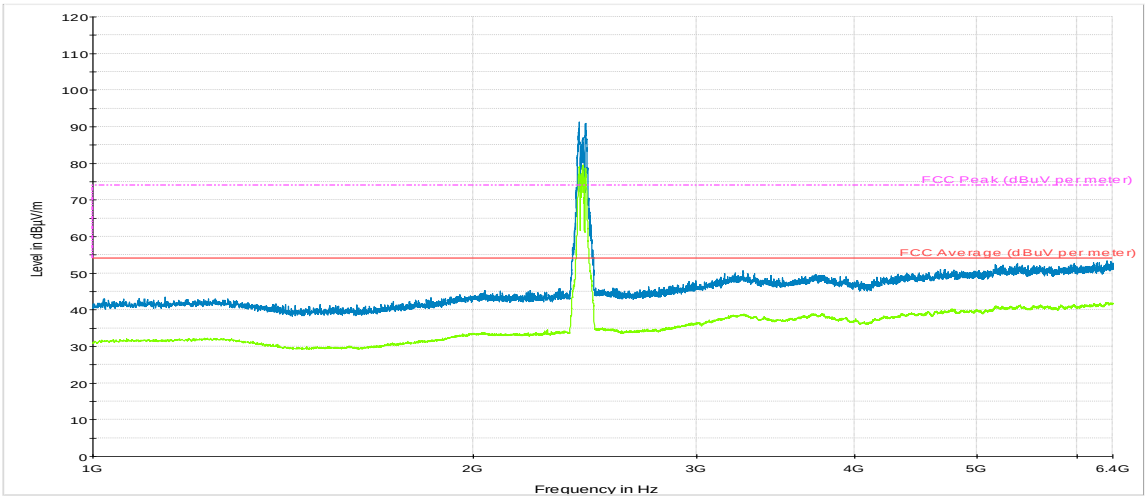
Radiated Spurious – 1 GHz - 6.4GHz - CH1



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6306	53.2	---	74	20.8
6306	---	42.0	54	12.0

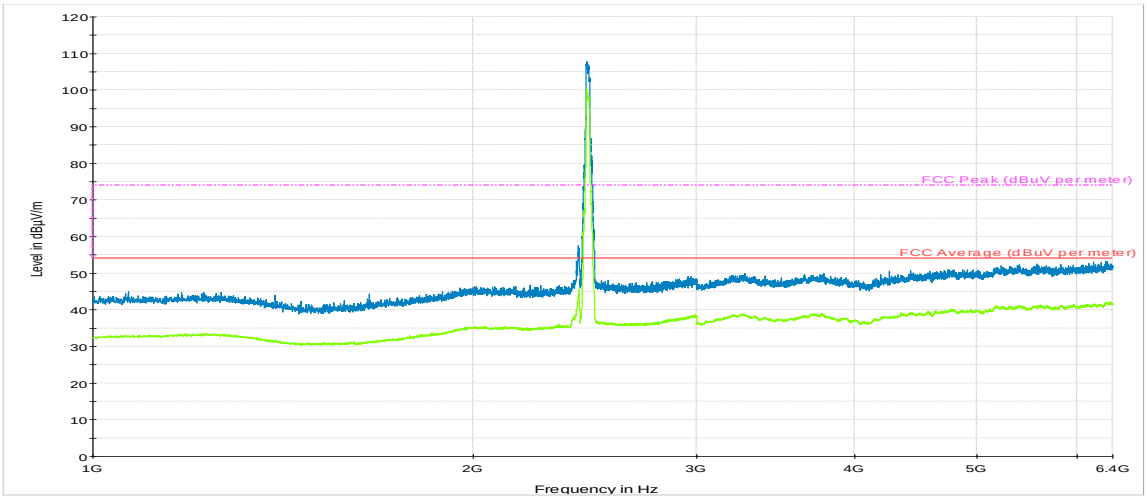
Radiated Spurious – 1 GHz - 6.4GHz - CH6



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6326	53.4	---	74	20.6
6326	---	42.0	54	12.0

Radiated Spurious – 1 GHz - 6.4GHz - CH11

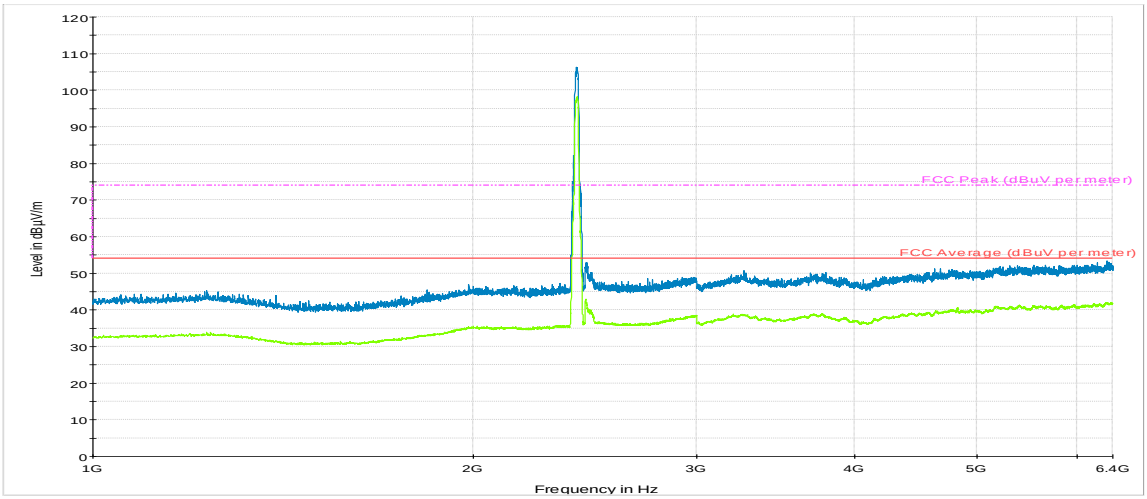


Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6337	53.2	---	74	20.7
6337	---	41.9	54	12.1

802.11g, 6Mbps, Chain B

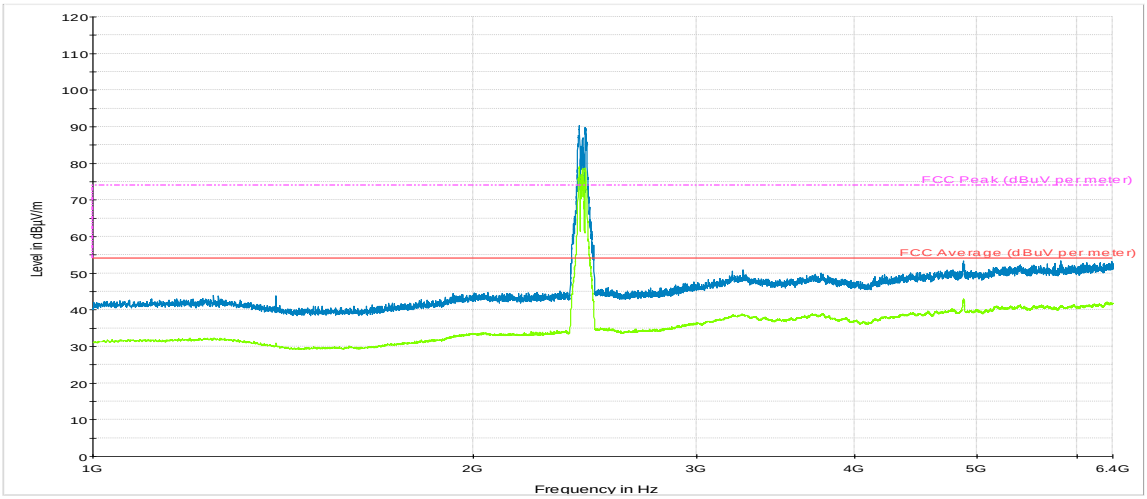
Radiated Spurious – 1 GHz - 6.4GHz - CH1



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6332	53.4	---	74	20.6
6332	---	42.0	54	12.0

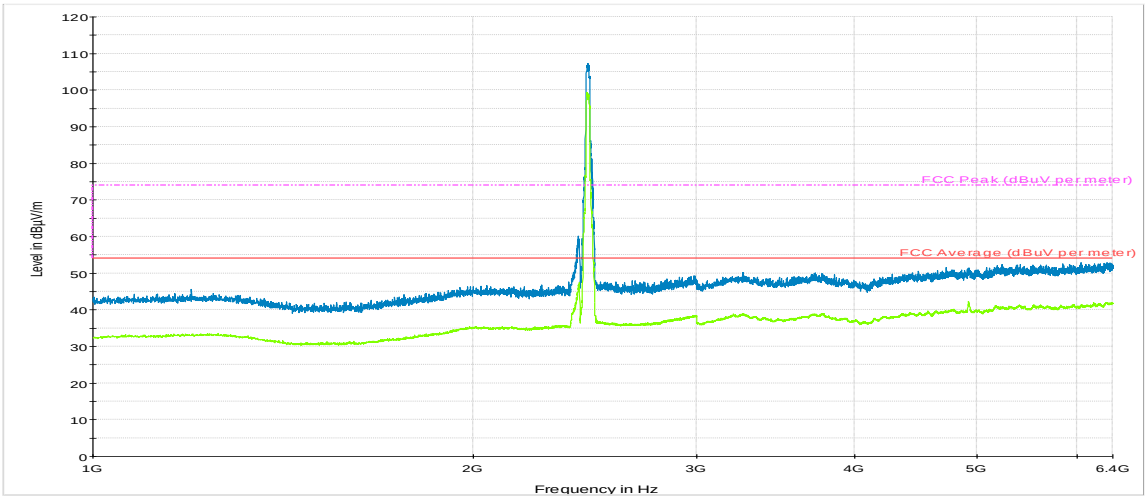
Radiated Spurious – 1 GHz - 6.4GHz - CH6



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
4872	53.4	---	74	20.6
4872	---	42.7	54	11.3

Radiated Spurious – 1 GHz - 6.4GHz - CH11

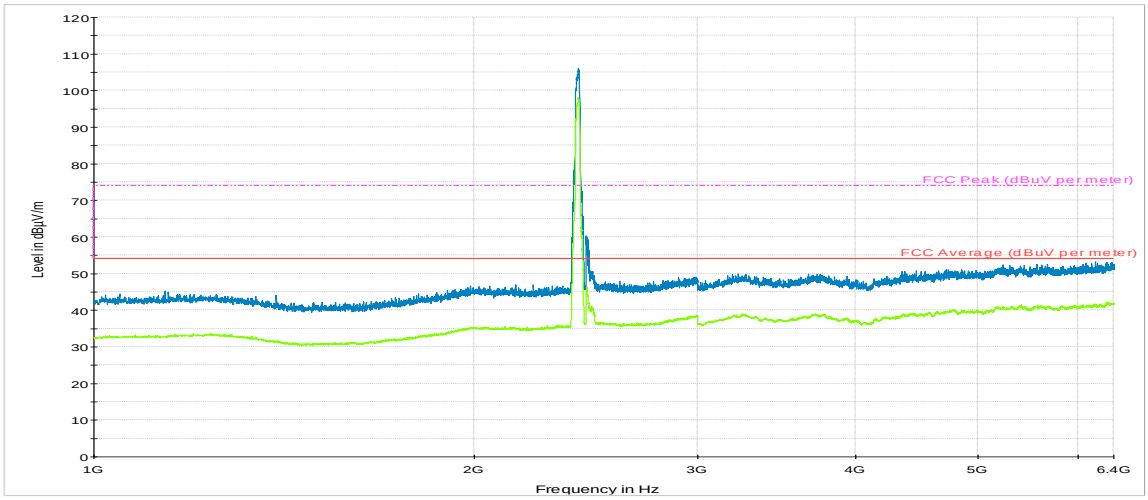


Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
4921	51.3	---	74	22.7
4921	---	42.3	54	11.7

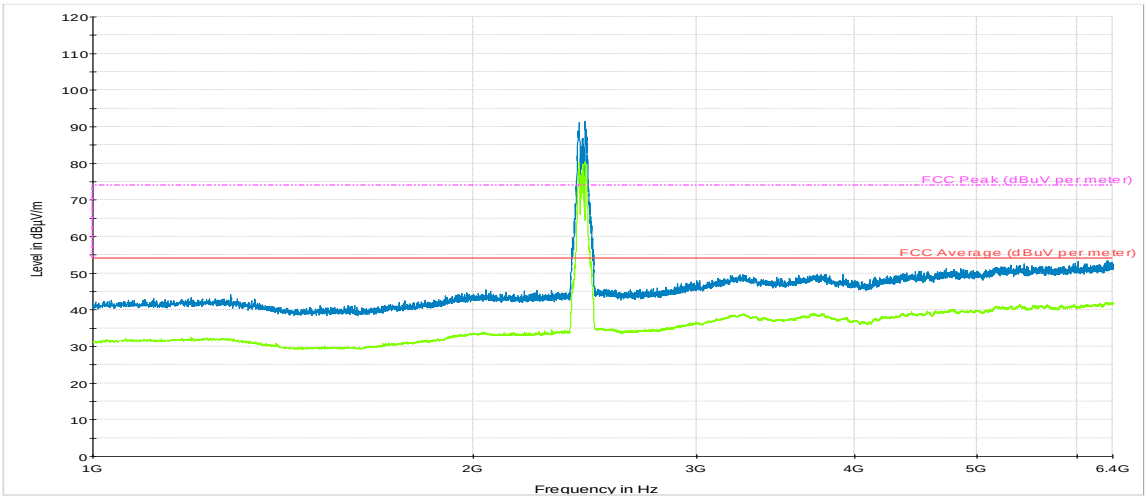
802.11n20, HT0 (SISO), Chain A

Radiated Spurious – 1 GHz - 6.4GHz - CH1



Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6323	53.1	---	74	20.9
6323	---	42.0	54	12.0

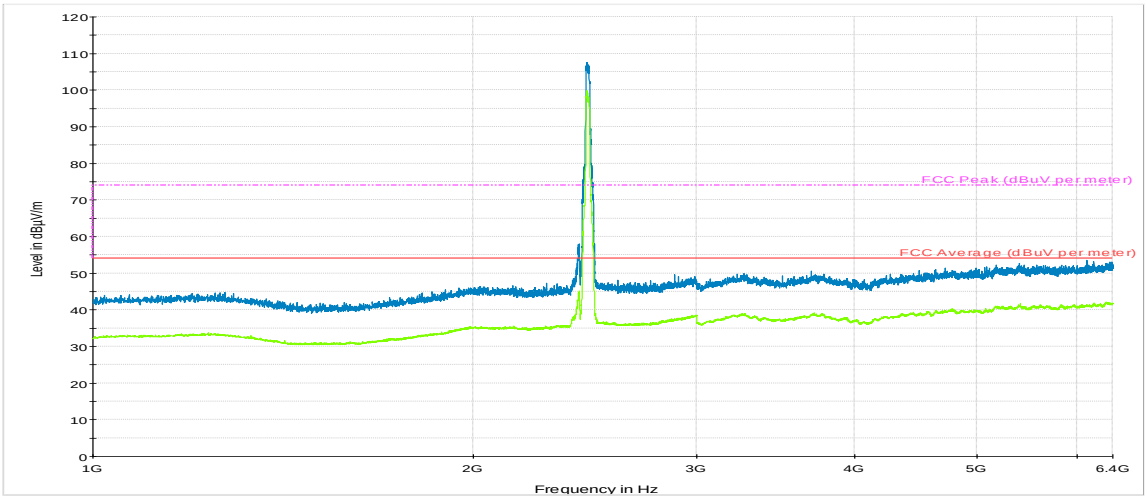
Radiated Spurious – 1 GHz - 6.4GHz - CH6



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	RMS	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6363	53.1	---	74	20.9
6363	---	41.6	54	12.4

Radiated Spurious – 1 GHz - 6.4GHz - CH11

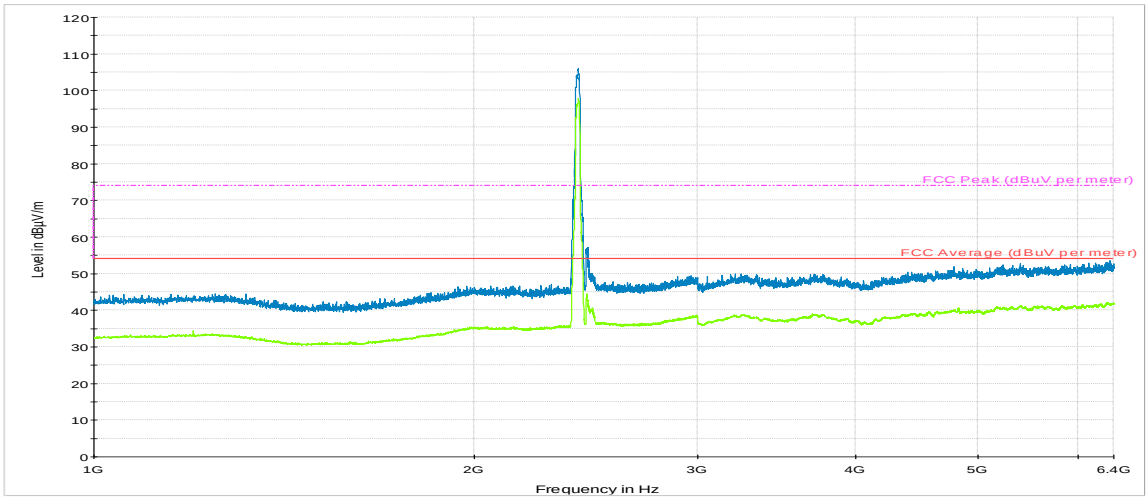


Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6184	53.3	---	74	20.7
6184	---	41.5	54	12.5

802.11n20, HT0 (SISO), Chain B

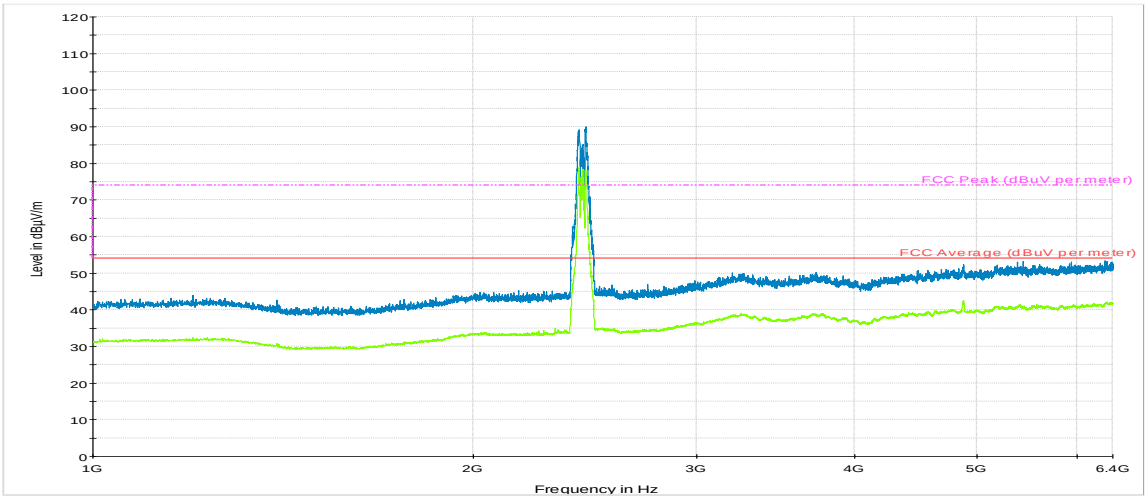
Radiated Spurious – 1 GHz - 6.4GHz - CH1



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6345	53.6	---	74	20.4
6345	---	41.8	54	12.2

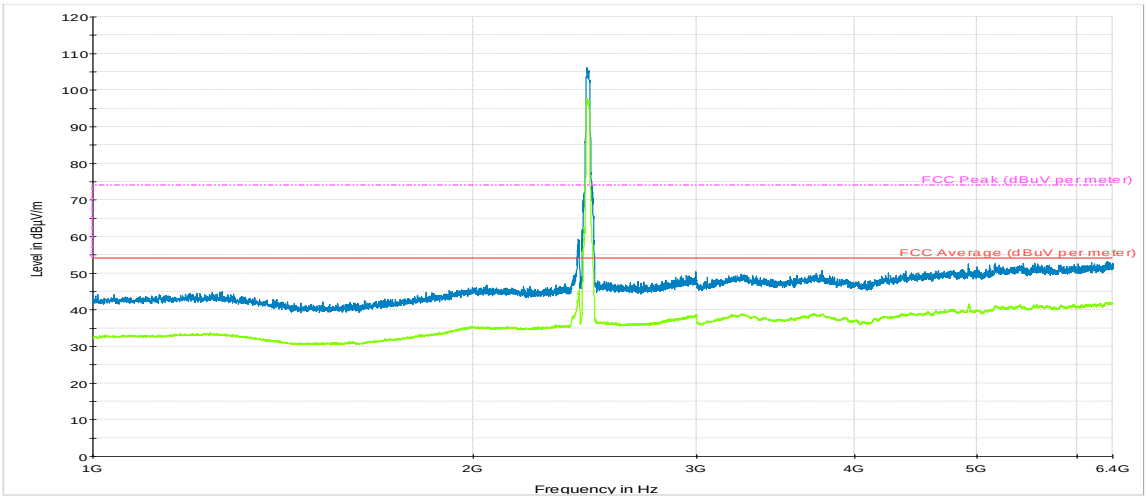
Radiated Spurious – 1 GHz - 6.4GHz - CH6



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
4874.0	52.4	---	74	21.6
4874.5	---	42.5	54	11.5

Radiated Spurious – 1 GHz - 6.4GHz - CH11

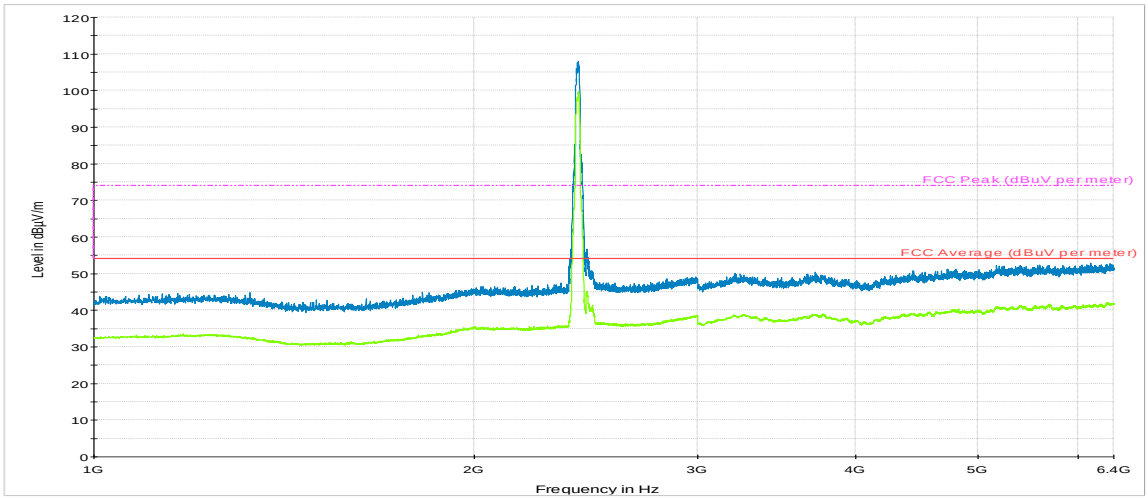


Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6327	53.2	---	74	20.8
6327	---	42.0	54	12.0

802.11n20, HT8 (MIMO), Chain A+B

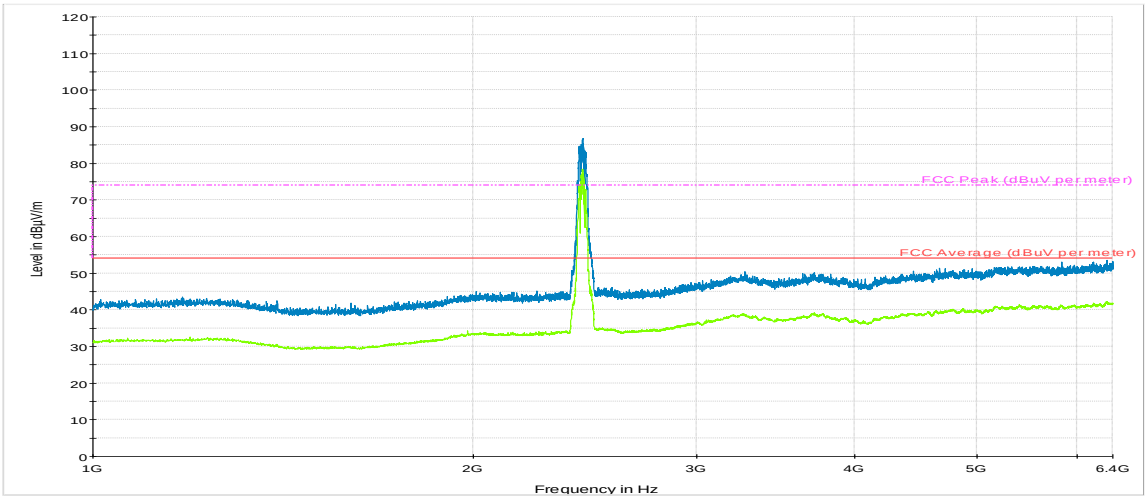
Radiated Spurious – 1 GHz - 6.4GHz - CH1



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6354	52.6	---	74	21.4
6354	---	41.8	54	12.2

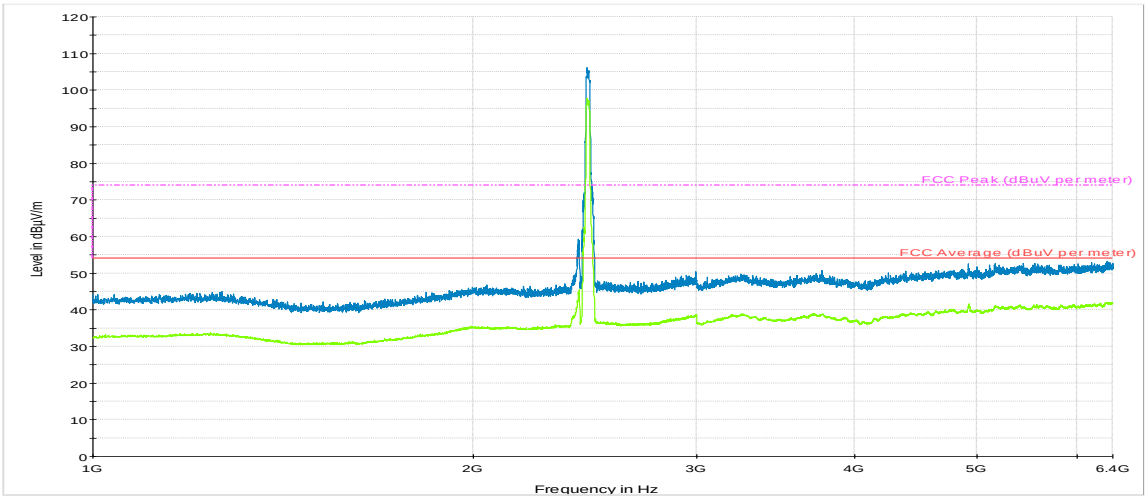
Radiated Spurious – 1 GHz - 6.4GHz - CH6



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6328	53.5	---	74	20.5
6328	---	42.3	54	11.7

Radiated Spurious – 1 GHz - 6.4GHz - CH11

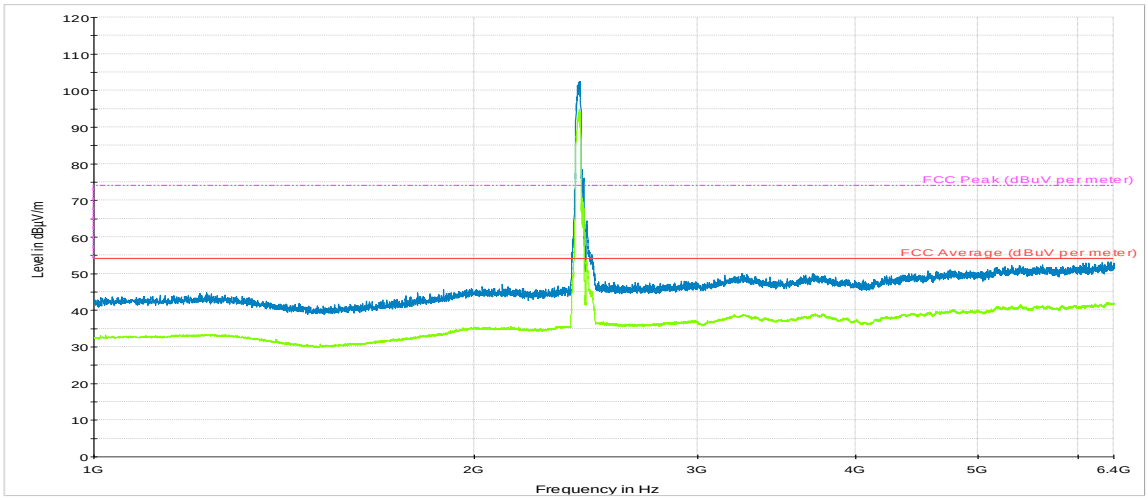


Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
5538	54.0	---	74	20.0
5538	---	41.1	54	12.9

802.11n40, HT0 (SISO), Chain A

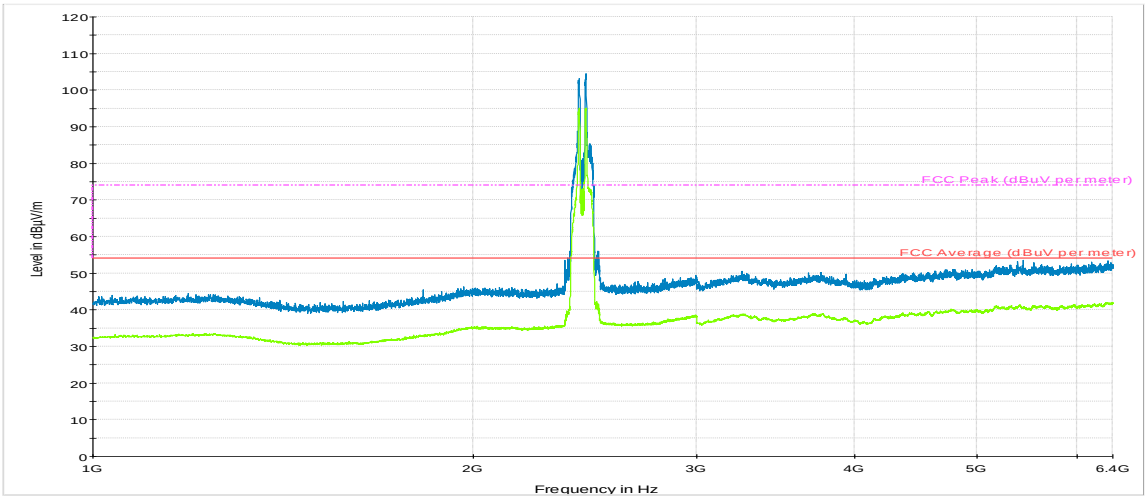
Radiated Spurious – 1 GHz - 6.4GHz - CH3F



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6337	53.3	---	74	20.7
6337	---	41.9	54	12.1

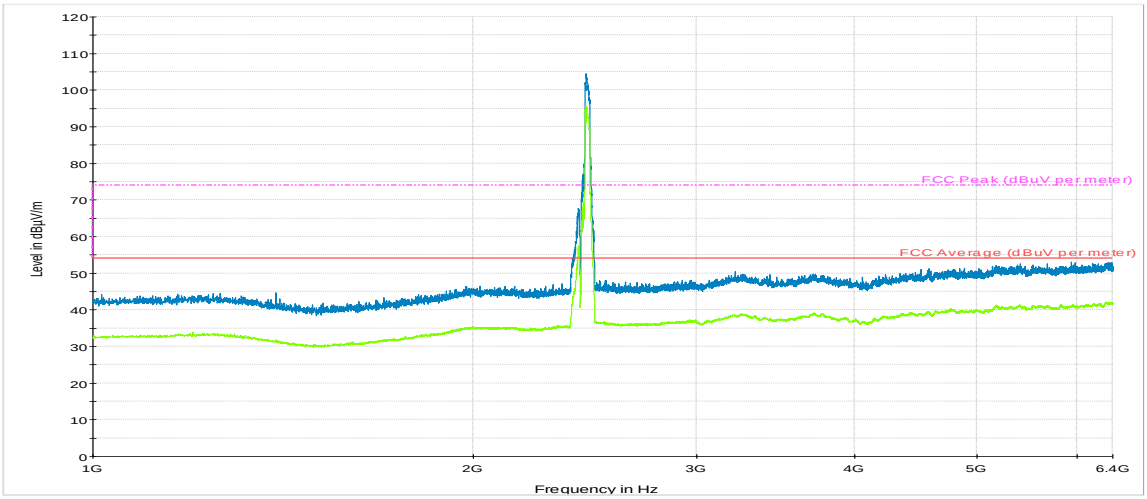
Radiated Spurious – 1 GHz - 6.4GHz - CH6F



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
5435	53.5	---	74	20.5
5435	---	40.6	54	13.4

Radiated Spurious – 1 GHz - 6.4GHz - CH9F

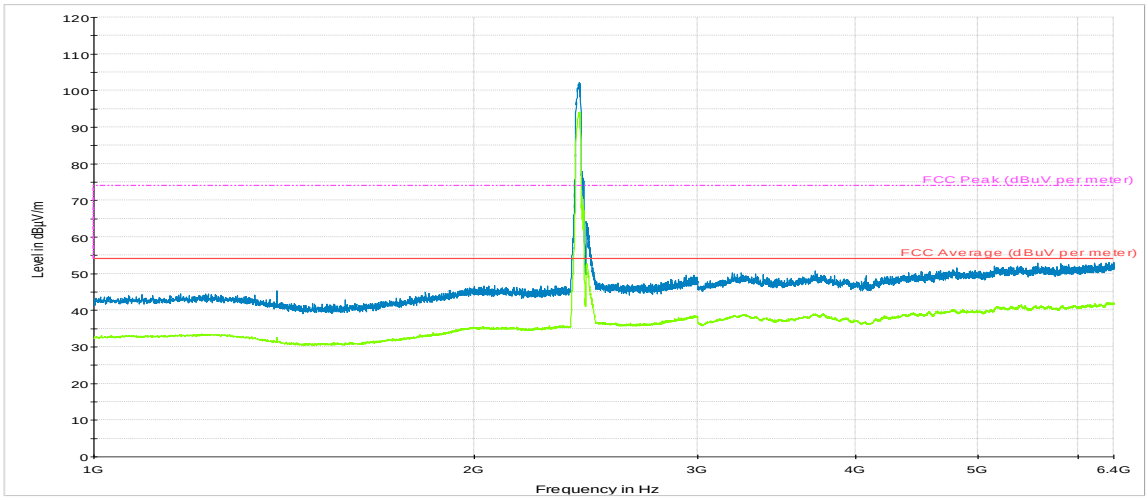


Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	RMS	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
5937	53.0	---	74	21.0
5937	---	41.1	54	12.9

802.11n40, HT0 (SISO), Chain B

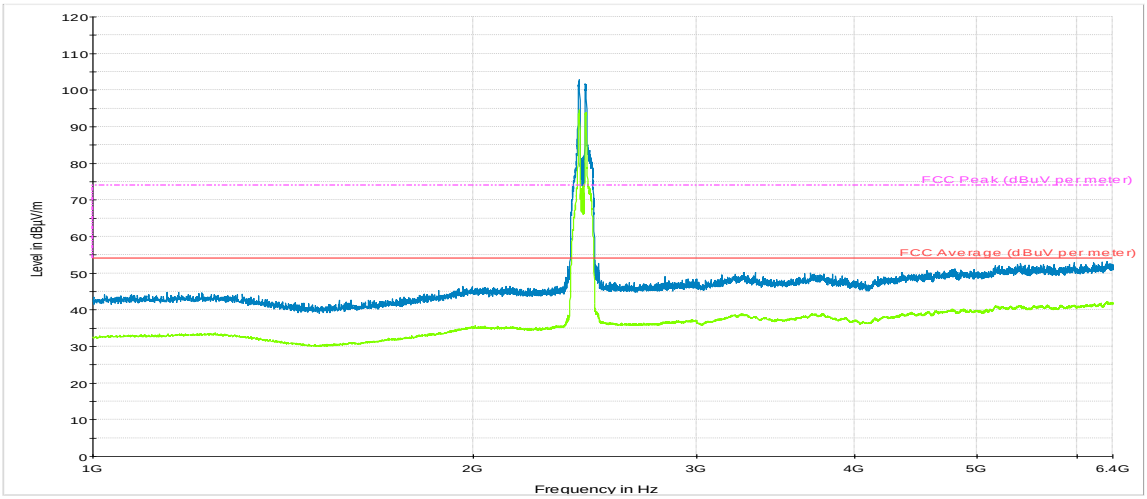
Radiated Spurious – 1 GHz - 6.4GHz - CH3F



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	RMS	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6344	53.0	---	74	21.0
6344	---	42.0	54	12.0

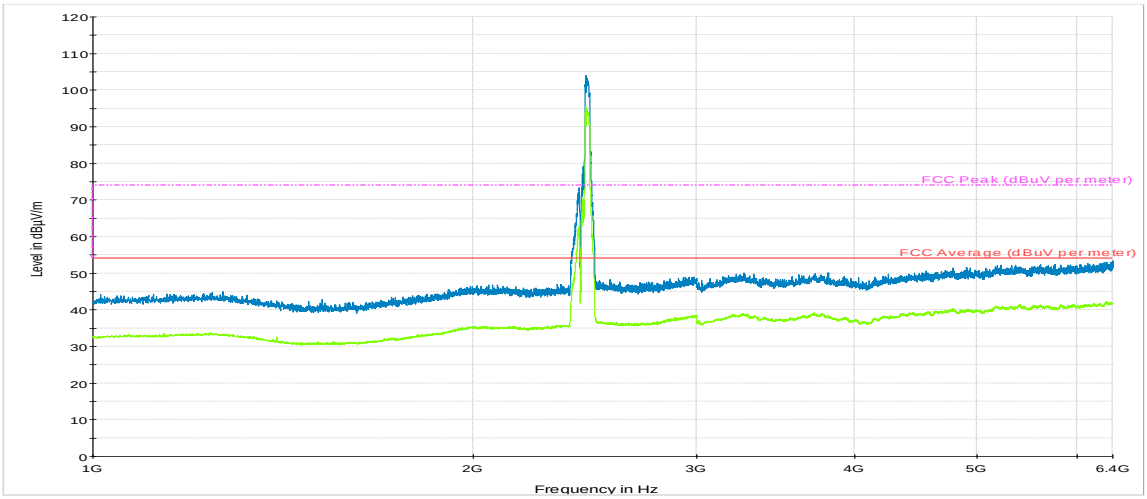
Radiated Spurious – 1 GHz - 6.4GHz - CH6F



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6334	53.2	---	74	20.8
6334	---	42.2	54	11.8

Radiated Spurious – 1 GHz - 6.4GHz - CH9F

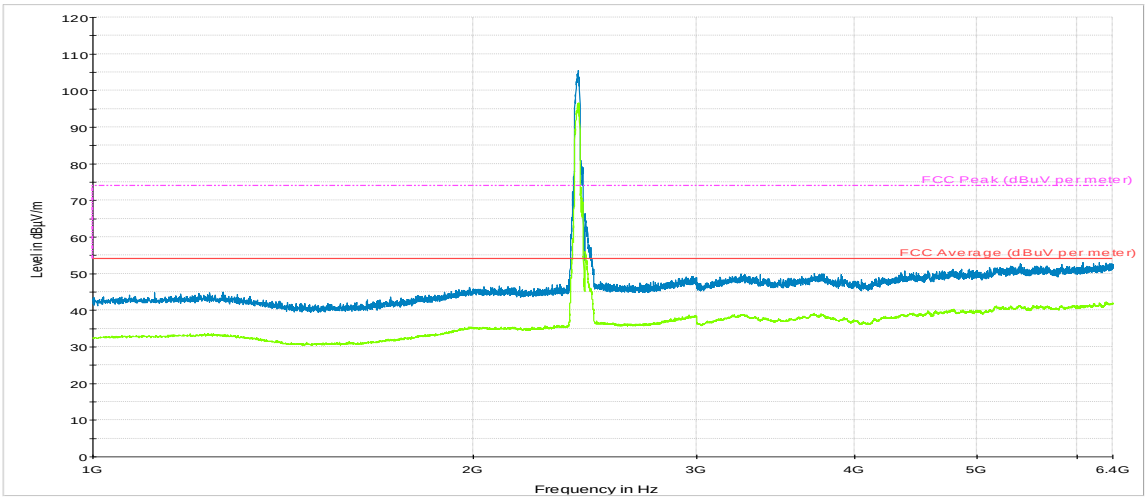


Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6257	52.6	---	74	21.4
6257	---	41.5	54	12.5

802.11n40, HT8 (MIMO), Chain A+B

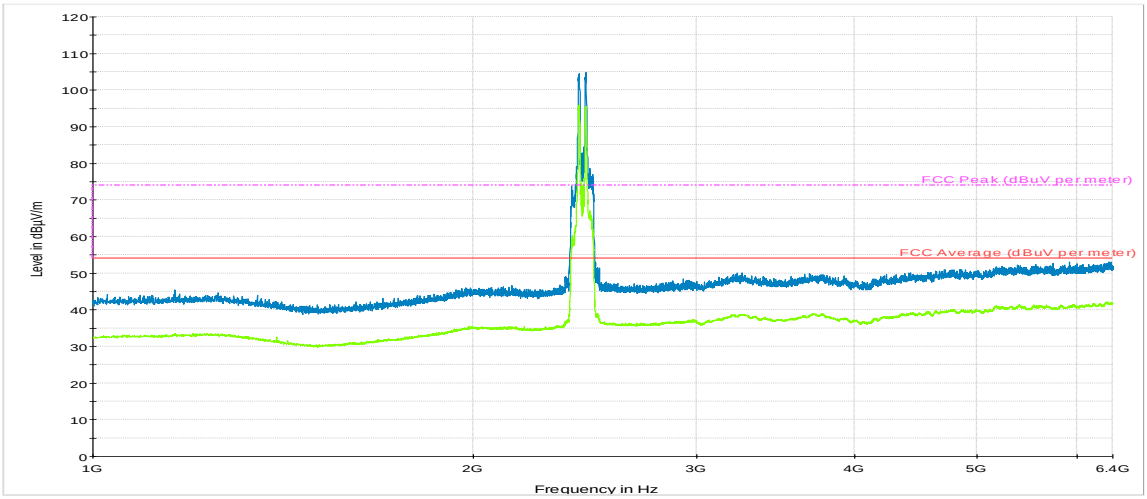
Radiated Spurious – 1 GHz - 6.4GHz - CH3F



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6248	53.0	---	74	21
6248	---	41.4	54	12.6

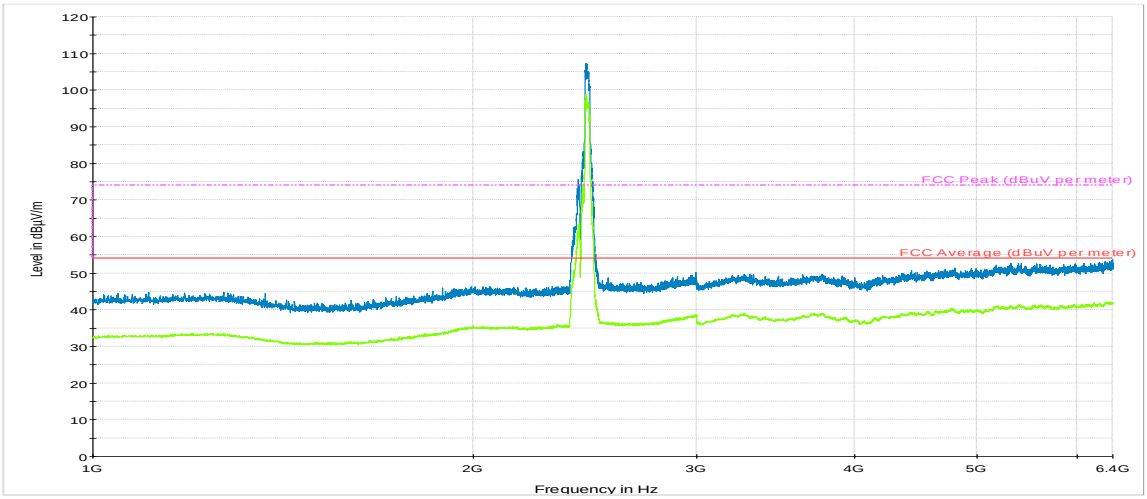
Radiated Spurious – 1 GHz - 6.4GHz - CH6F



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
5910	53.1	---	74	20.9
5910	---	40.9	54	13.1

Radiated Spurious – 1 GHz - 6.4GHz - CH9F

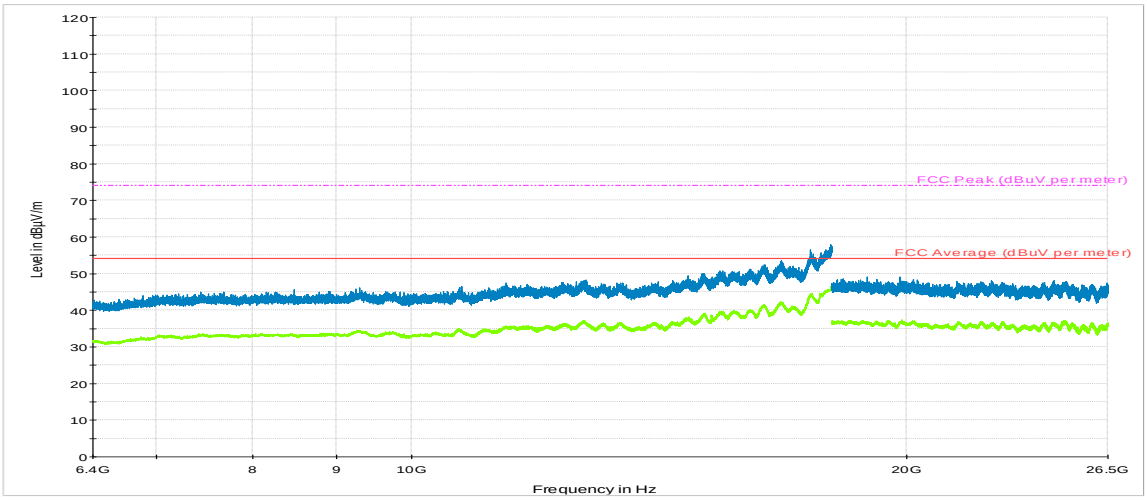


Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
6249	54.1	---	74	20.9
6249	---	41.8	54	12.2

All modes

Radiated Spurious – 6.4GHz – 26.5GHz



Peak measurements AVG measurements Limit FCC AVG Limit FCC Peak

Frequency	Max Peak	AVG	Limit	Margin
MHz	dBµV/m	dBµV/m	dBµV/m	dB
18000	56.5	---	74	17.5
18000	---	46.4	54	7.6
18185	48.3	---	74	25.7
18185	---	36.6	54	17.4

Note 1: The spurious signals detected do not depend on either the operating channel or the modulation mode.
Note 2: No spurious signals were found in all modulations and channels tested.
Note 3: This plot is valid for both SISO and MIMO modes.

Annex C. Test Results BLE

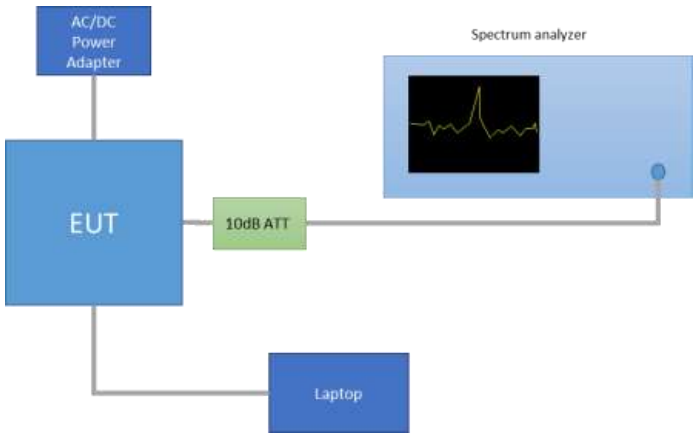
C.1 6dB & 99% Bandwidth

Test limits:

FCC part	RSS part	Limits
15.247 (a) (2)	RSS-247 Clause 5.2 (1)	Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test procedure:

The setup below was used to measure the 6dB & 99% Bandwidth. The antenna terminal of the EUT is connected to the spectrum through an attenuator, and the spectrum analyzer reading is compensated to include the RF path loss.



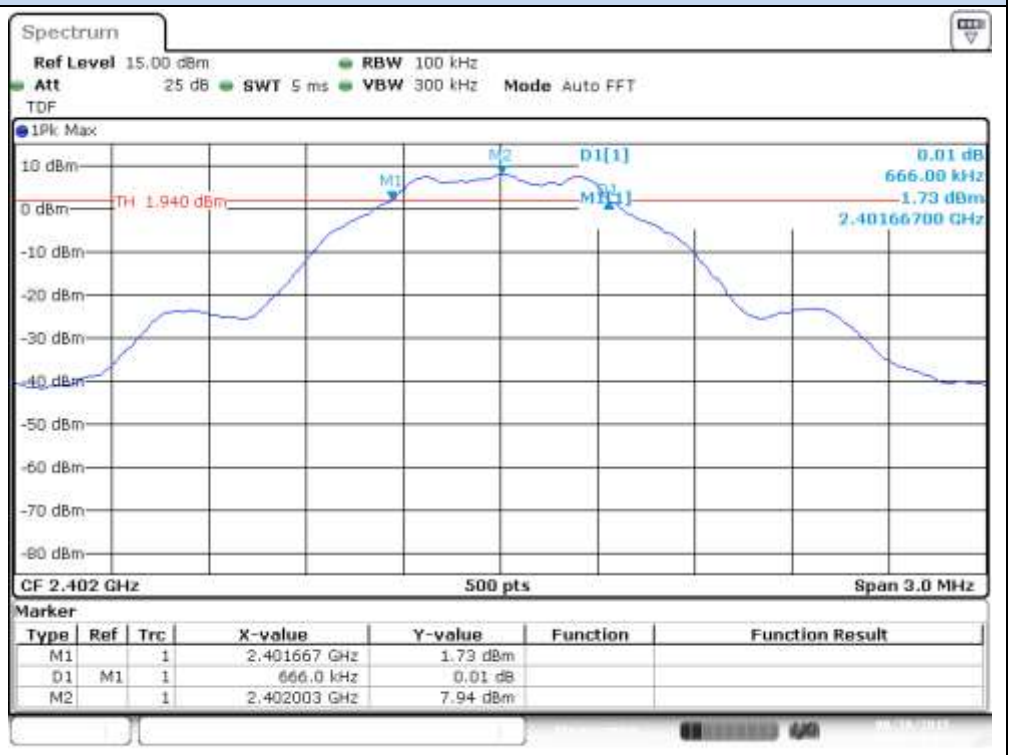
Results tables:

Mode	Channel	Frequency [MHz]	6dB BW [MHz]	99% BW [MHz]
BLE	0	2402	0.666	1.14
	19	2440	0.660	1.14
	39	2480	0.678	1.13

Results screenshot:

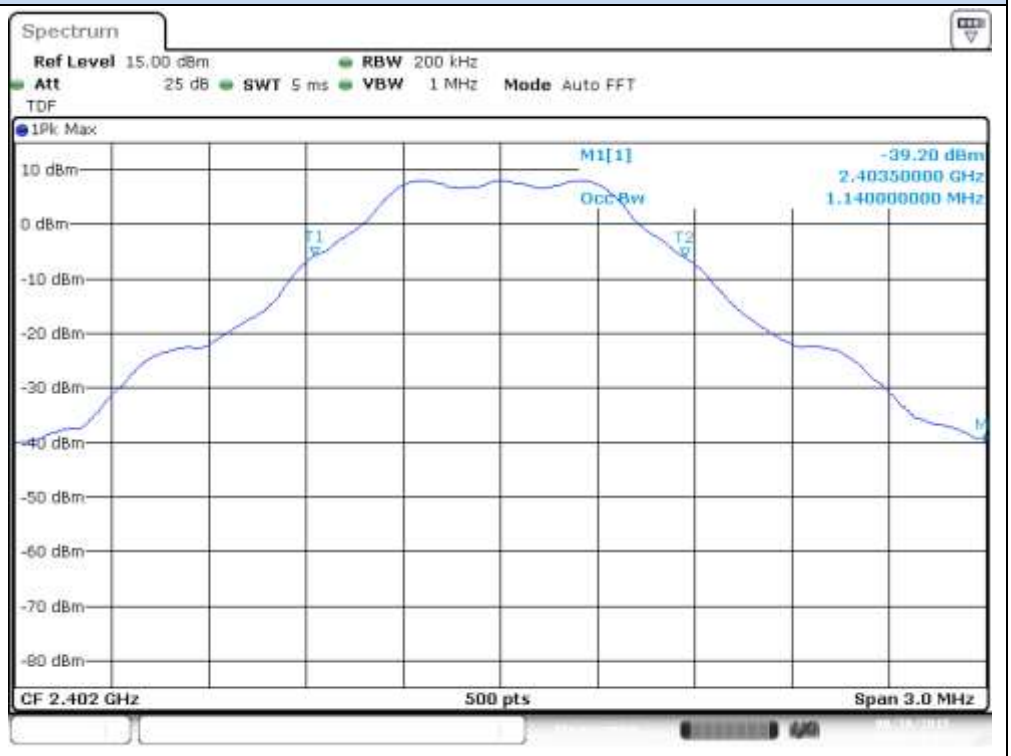
BLE

6dB BW – CH0



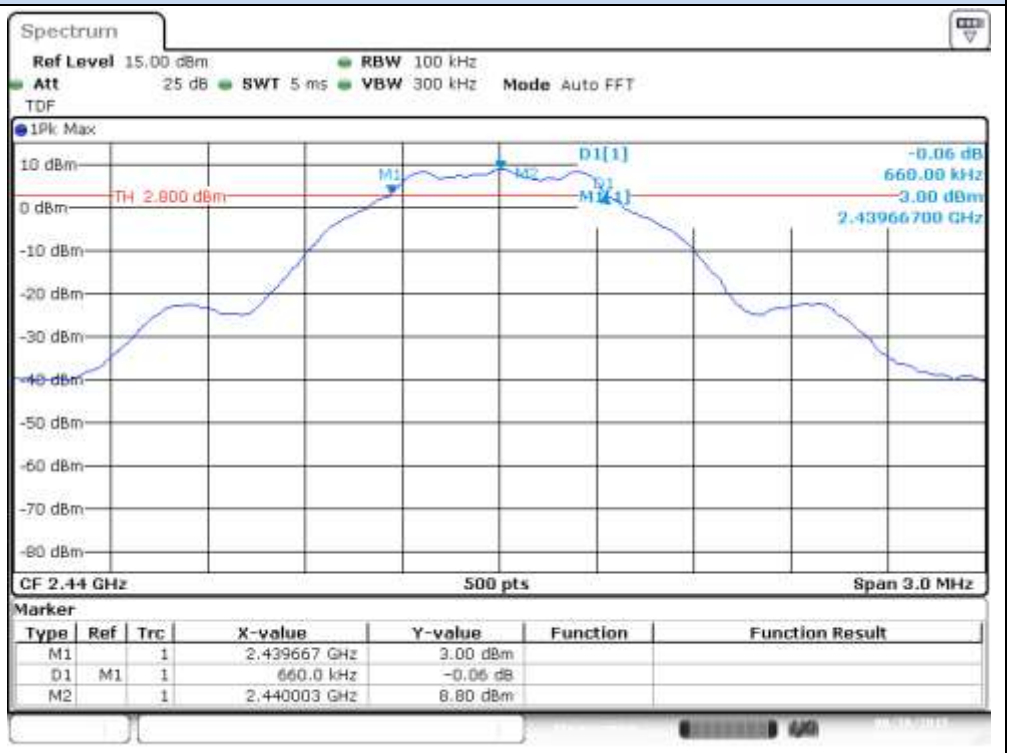
Date: 28.AUG.2015 16:06:18

99% BW – CH0



Date: 28.AUG.2015 16:07:51

6dB BW – CH19



99% BW – CH19