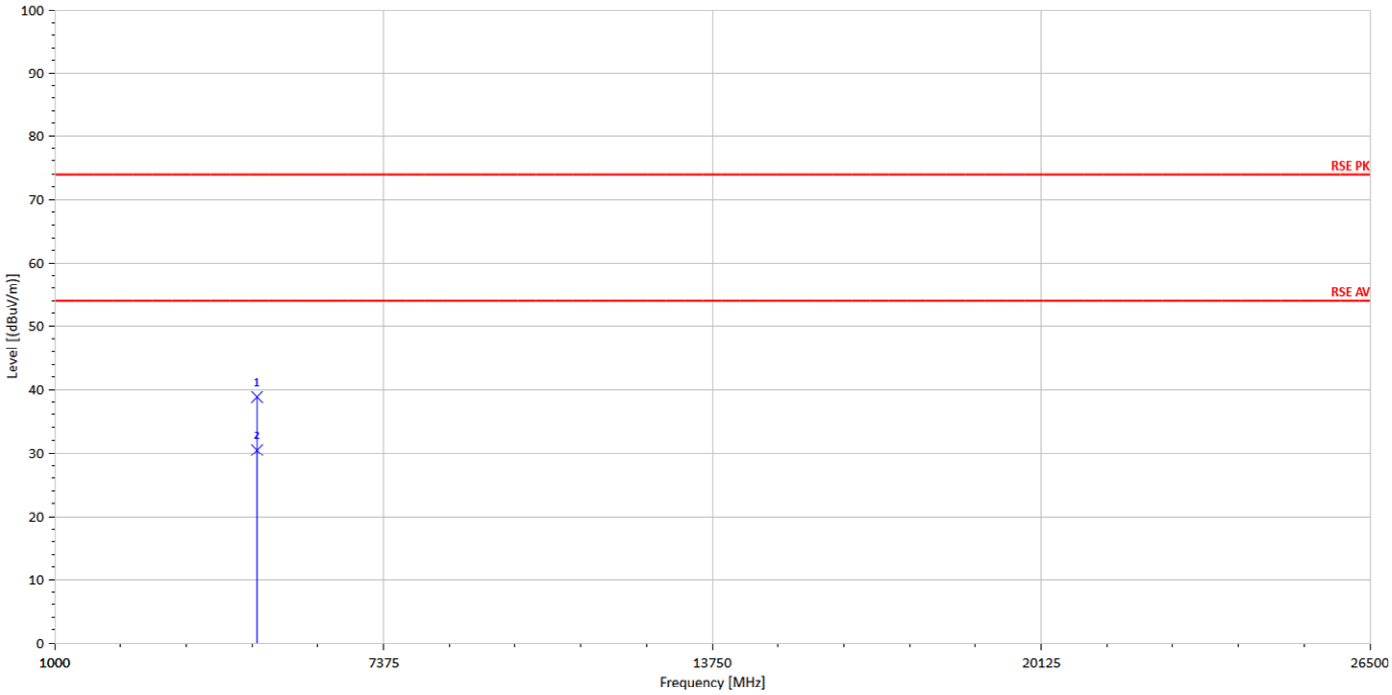
Operation Mode :	802.11n20	Test Date :	2017/9/30
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	H	Peak	30.91	7.92	38.83	74	-35.17
4924.00	H	Average	22.50	7.92	30.42	54	-23.58

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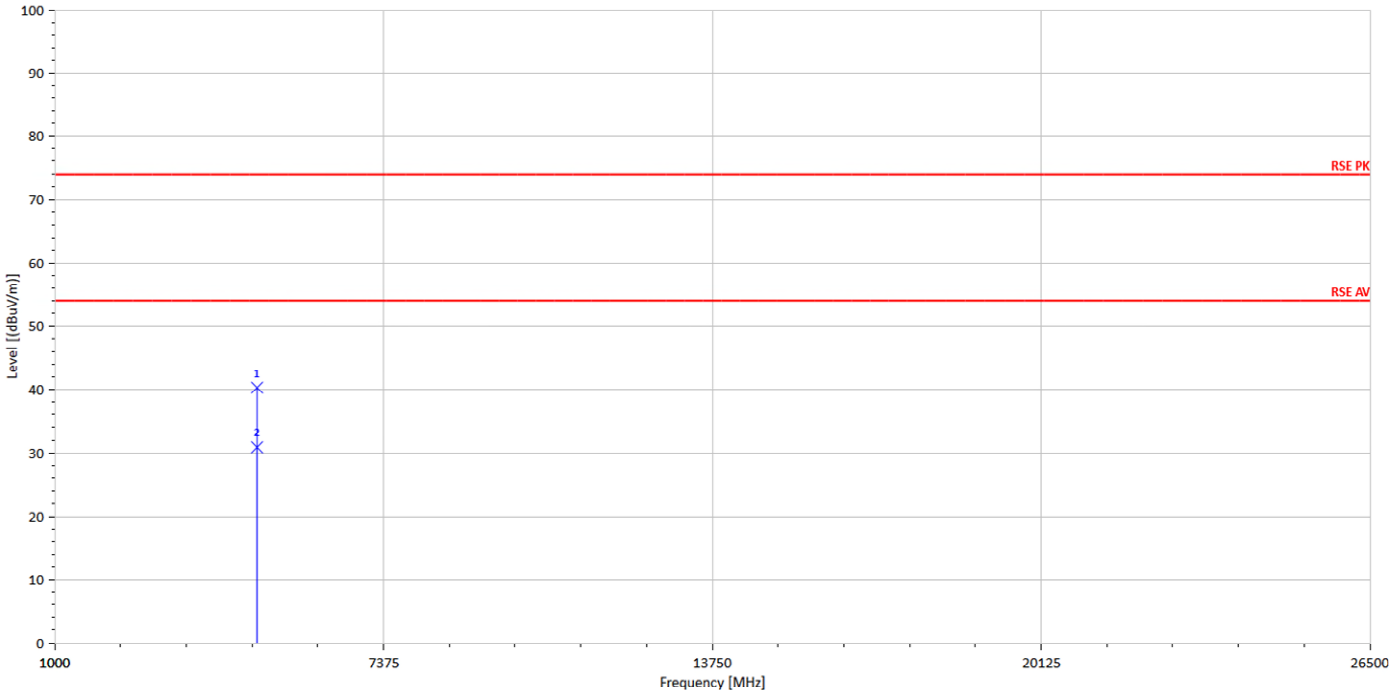
Operation Mode :	802.11n20	Test Date :	2017/9/30
Fundamental Frequency :	2462 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	H	Peak	32.42	7.92	40.34	74	-33.66
4924.00	H	Average	22.96	7.92	30.88	54	-23.12

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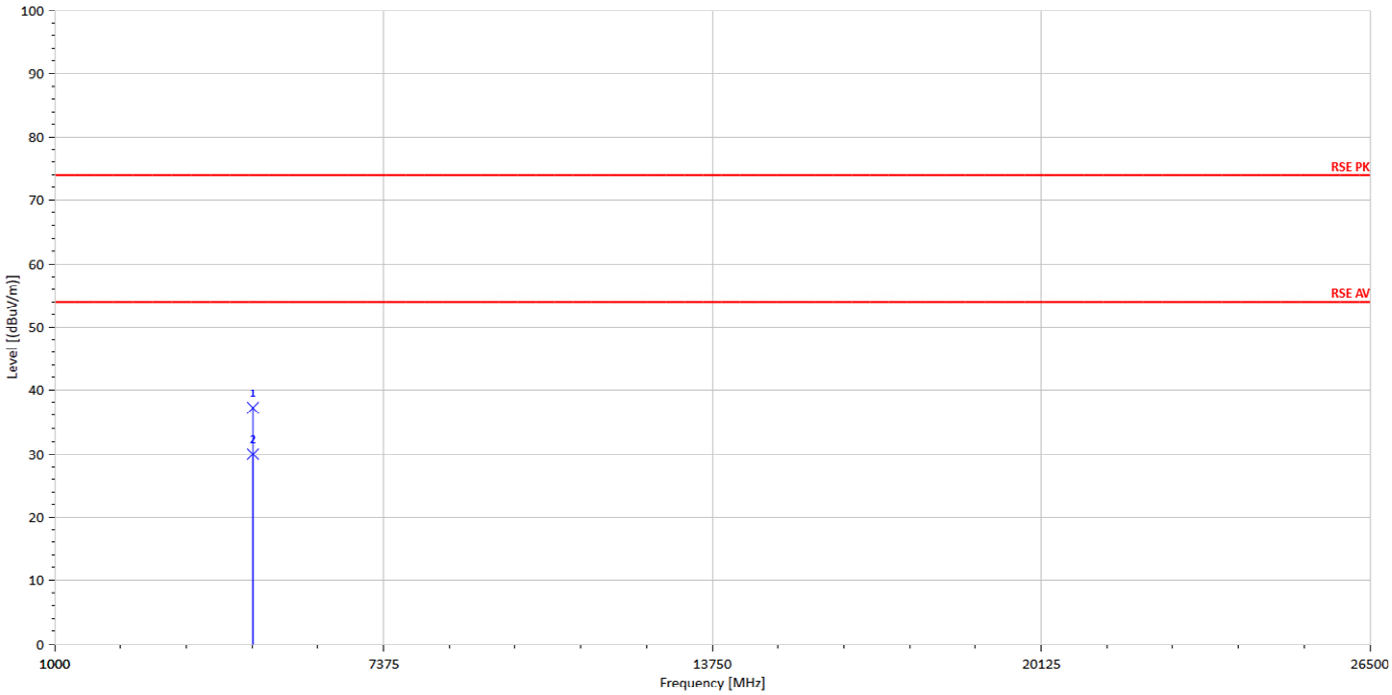
Radiated Spurious Emission Measurement Result (802.11_HT40) (MIMO)

Operation Mode :	802.11n40	Test Date :	2017/9/30
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
4844.00	H	Peak	29.63	7.55	37.18	74	-36.82
4844.00	H	Average	22.43	7.55	29.98	54	-24.02

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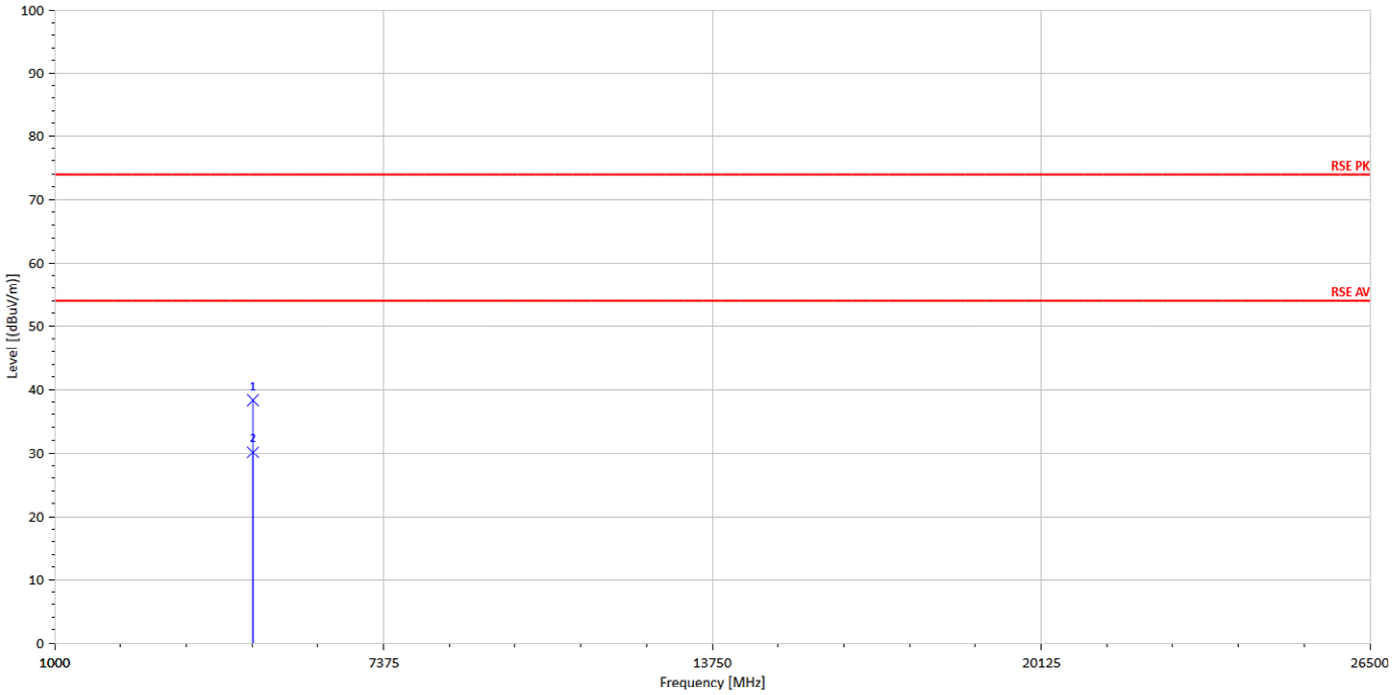
Operation Mode :	802.11n40	Test Date :	2017/9/30
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Low	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4844.00	H	Peak	30.78	7.55	38.33	74	-35.67
4844.00	H	Average	22.51	7.55	30.06	54	-23.94

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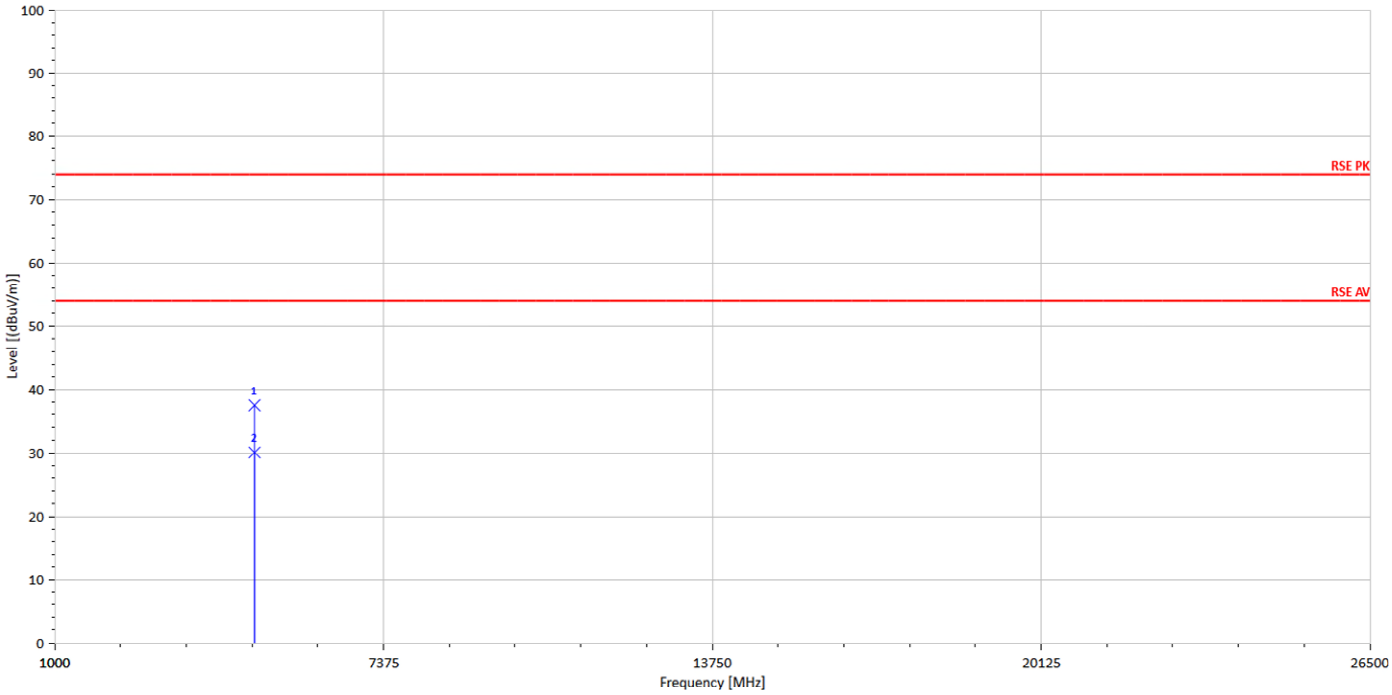
Operation Mode :	802.11n40	Test Date :	2017/9/30
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	H	Peak	29.65	7.91	37.56	74	-36.44
4874.00	H	Average	22.13	7.91	30.04	54	-23.96

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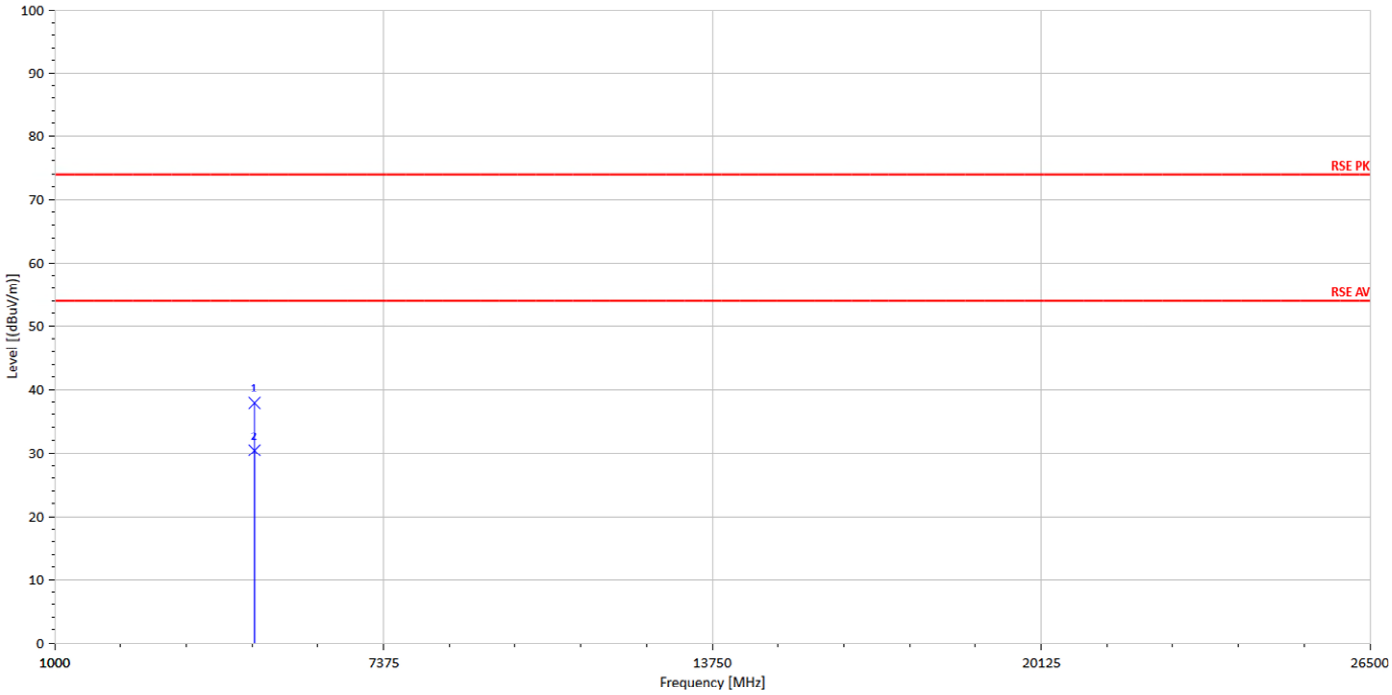
Operation Mode :	802.11n40	Test Date :	2017/9/30
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH Mid	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	H	Peak	30.01	7.91	37.92	74	-36.08
4874.00	H	Average	22.47	7.91	30.38	54	-23.62

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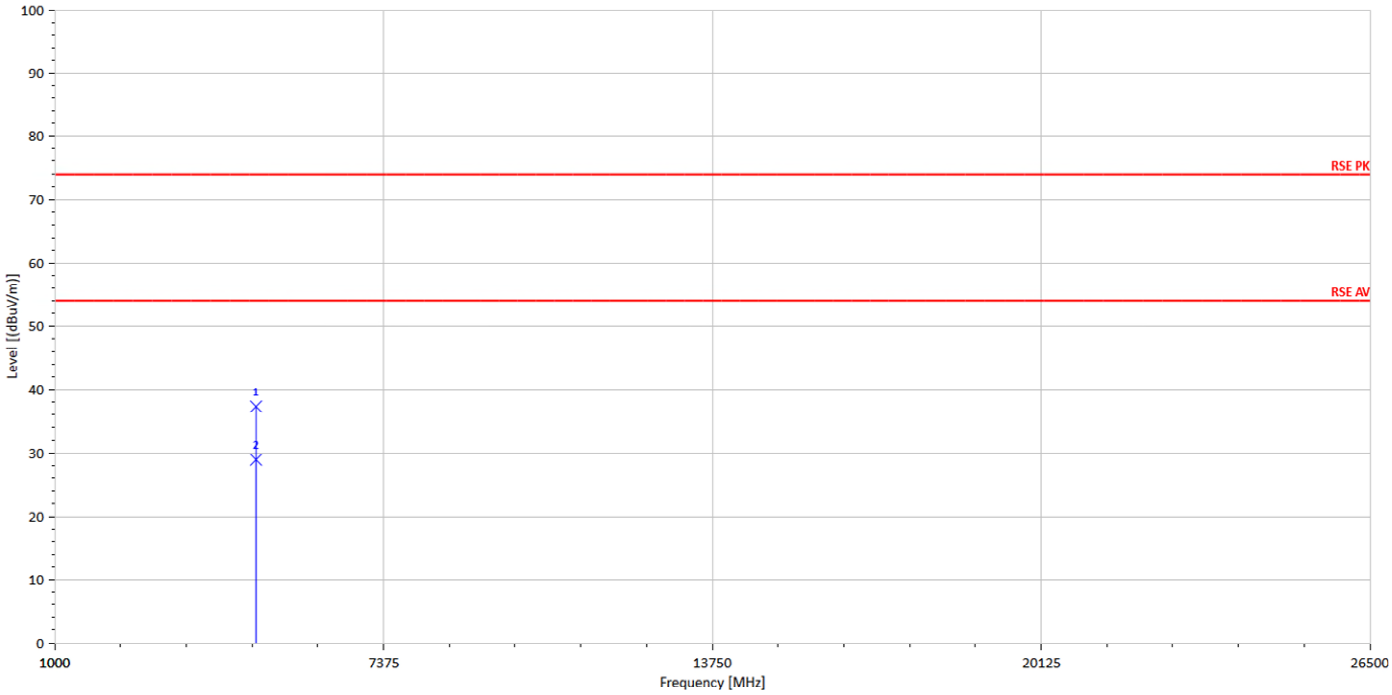
Operation Mode :	802.11n40	Test Date :	2017/9/30
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.00	H	Peak	29.90	7.44	37.35	74	-36.65
4904.00	H	Average	21.44	7.44	28.88	54	-25.12

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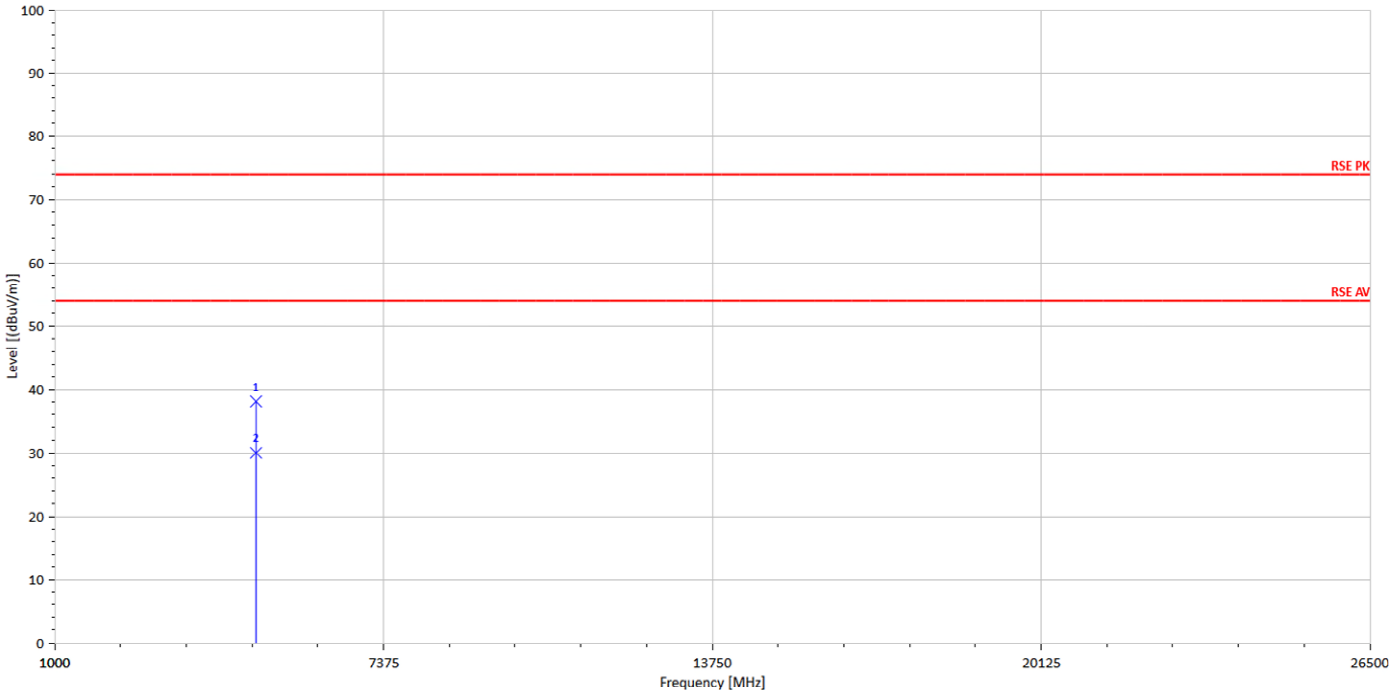
Operation Mode :	802.11n40	Test Date :	2017/9/30
Fundamental Frequency :	2452 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	Tx CH High	Test Engineer :	Ashton
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.00	H	Peak	30.71	7.44	38.15	74	-35.85
4904.00	H	Average	22.53	7.44	29.97	54	-24.03

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12 PEAK POWER SPECTRAL DENSITY

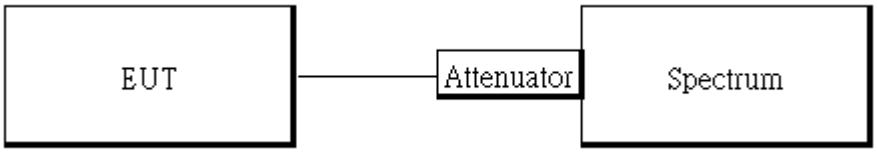
12.1 Standard Applicable

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

12.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A 195C	RF01	12/12/2016	12/11/2017
DC Block	PASTERNACK	PE8210	RF29	12/12/2016	12/11/2017
Attenuator	WOKEN	218FS-10	RF23	12/12/2016	12/11/2017
DC Power Supply	Agilent	E3640A	MY53140006	05/02/2017	05/01/2018

12.3 Test Set-up



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12.4 Measurement Procedure

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance .
3. Set the span to 1.5 times the DTS channel bandwidth.
4. Set the RBW = 3 kHz & VBW = 10 kHz.
5. For defining Restricted Band Edge Limit:
   Set the RBW = 100kHz & VBW = 300 kHz
6. Detector = peak.
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.
10. Use the peak marker function to determine the maximum amplitude level.
11. 802.11n MIMO mode: offset is set following “measure and add 10 Log (N)” on spectrum to measure the PSD for MIMO mode. Offset = cable loss + 10 log (N), where N is number of transmitting antenna. N=2 for this given application.

Note:

Antenna Gain:	*5.50*	dBi
Aux1 Antenna Gain:	*5.15*	dBi
Aux2 Antenna Gain:	*0.00*	dBi
Aux3 Antenna Gain:	*0.00*	dBi
Number Antenna:	*2*	pcs
Limit:	*8*	dBm

The antenna gain is grater than 6dBi in MIMO mode the limit reduce as below:
Directional gain = gain of antenna element + 10 log (# of TX antenna elements)
Effective Legacy Gain (dBi) = 5.5+3.01=8.51dBi
Limit: 8dBm – (8.51– 6dBi)=5.49dBm

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12.5 Measurement Result

POWER DENSITY 802.11b						
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2412	1.20	11.00	0.02	1.22	8.00	PASS
2437	2.56	11.00	0.02	2.58	8.00	PASS
2462	1.25	11.00	0.02	1.27	8.00	PASS
POWER DENSITY 802.11g						
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2412	-8.80	11.00	0.11	-8.69	8.00	PASS
2437	-7.25	11.00	0.11	-7.14	8.00	PASS
2462	-9.90	11.00	0.11	-9.79	8.00	PASS
POWER DENSITY 802.11n HT20						
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2412	-6.10	11.00	0.22	-5.88	5.49	PASS
2437	-6.47	11.00	0.22	-6.25	5.49	PASS
2462	-6.96	11.00	0.22	-6.74	5.49	PASS
POWER DENSITY 802.11n HT40						
Freq. (MHz)	PPSD W/O Duty Factor (dBm)	Offset	Duty Factor	PPSD With Duty Factor (dBm)	Limit (dBm)	Result
2422	-10.02	11.00	0.32	-9.70	5.49	PASS
2437	-9.93	11.00	0.32	-9.61	5.49	PASS
2452	-9.19	11.00	0.32	-8.87	5.49	PASS

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Bandedge Limit 802.11b MODE		
Freq. (MHz)	PSD (dBm)	Bandedge Limit (dBm)
2412	15.98	-4.02
2462	15.60	-4.40
Bandedge Limit 802.11g MODE		
Freq. (MHz)	PSD (dBm)	Bandedge Limit (dBm)
2412	6.22	-13.78
2462	4.33	-15.67
Bandedge Limit 802.11n20 MODE		
Freq. (MHz)	PSD (dBm)	Bandedge Limit (dBm)
2412	8.97	-11.03
2462	7.96	-12.04
Bandedge Limit 802.11n40 MODE		
Freq. (MHz)	PSD (dBm)	Bandedge Limit (dBm)
2422	5.59	-14.41
2452	3.42	-16.58

Note:

offset 11.00 dB for SISO mode
offset 14.00 dB for MIMO mode

**Refer to next page for plots*

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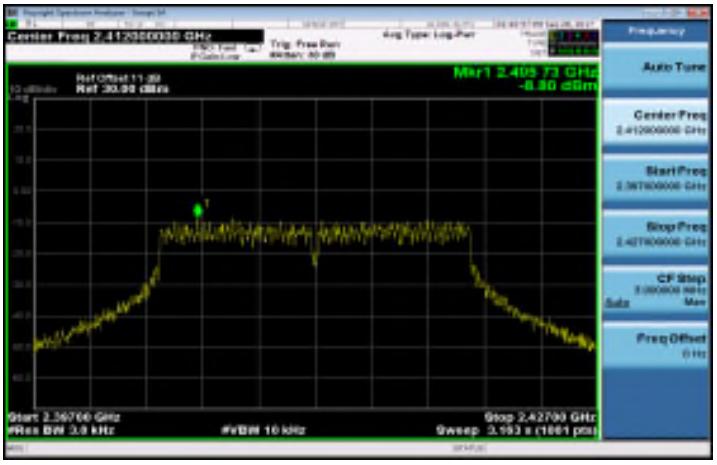
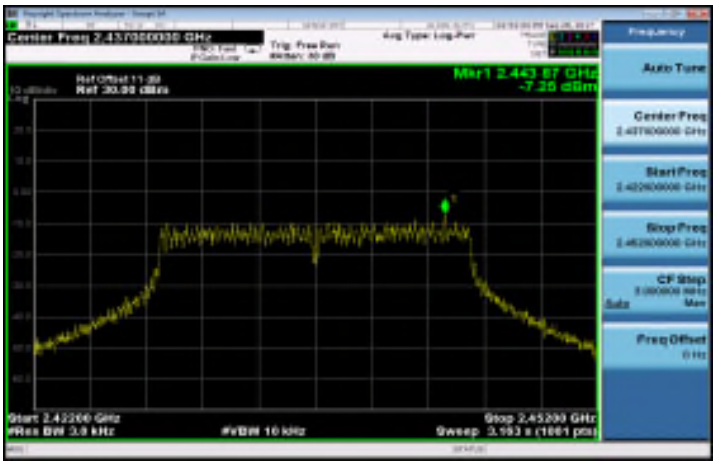
802.11b PSD(CH-Low)

802.11g PSD(CH-Low)



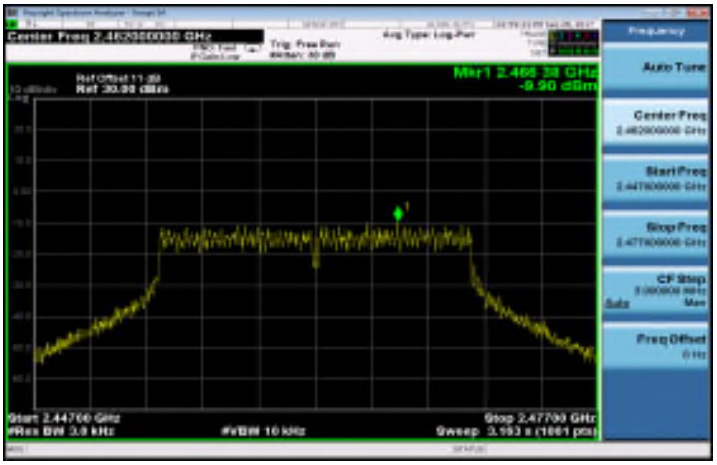
802.11b PSD (CH-Mid)

802.11g PSD (CH-Mid)



802.11b PSD (CH-High)

P802.11g PSD (CH-High)



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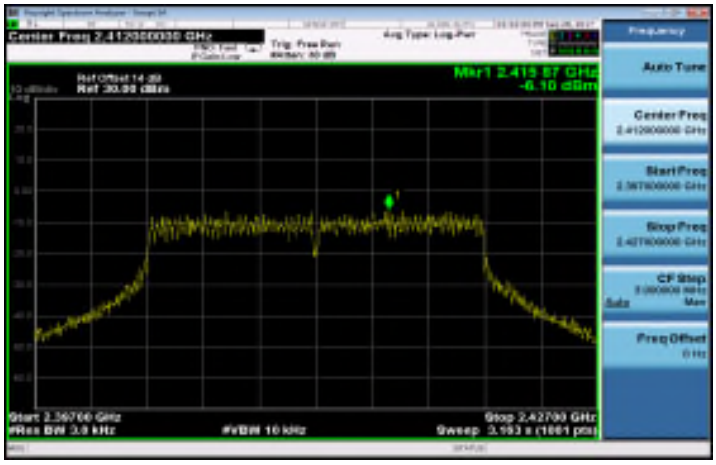
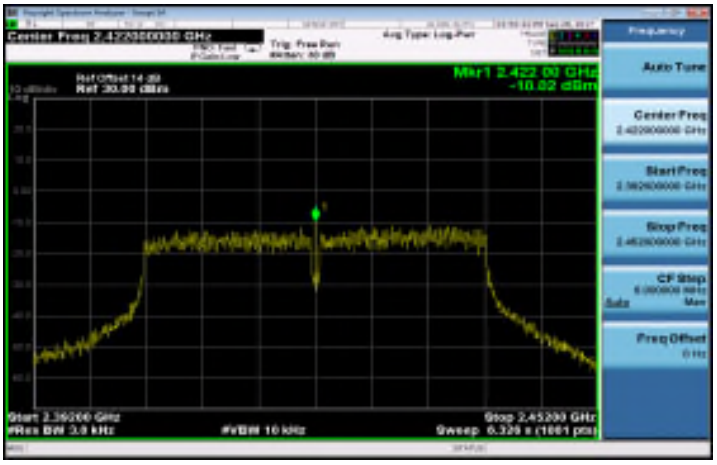
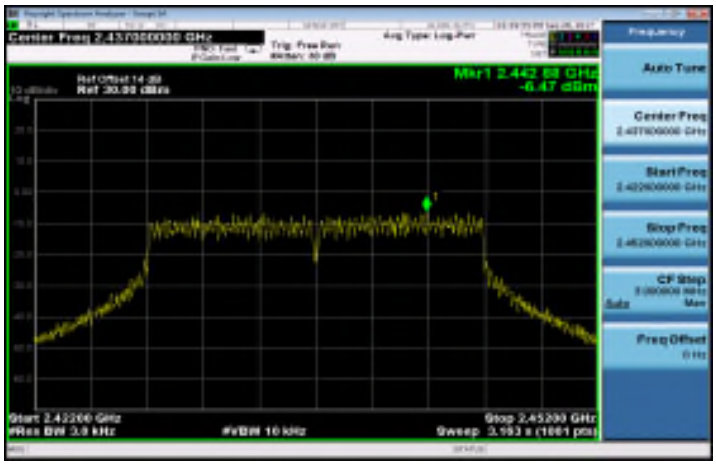
802.11n_HT20 PSD (CH-Low)



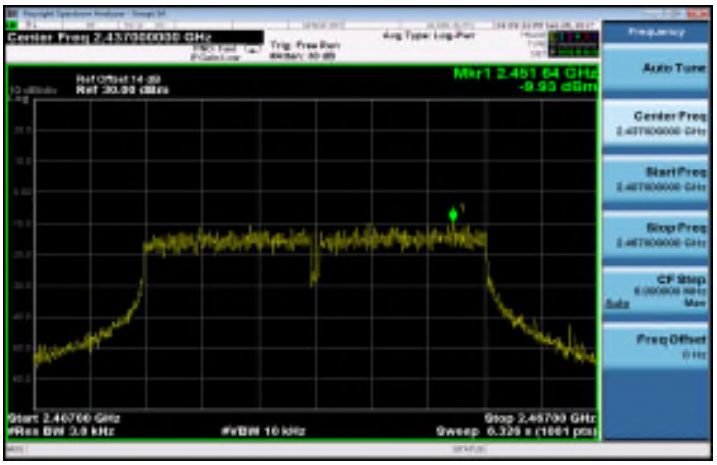
802.11n_HT40 PSD (CH-Low)



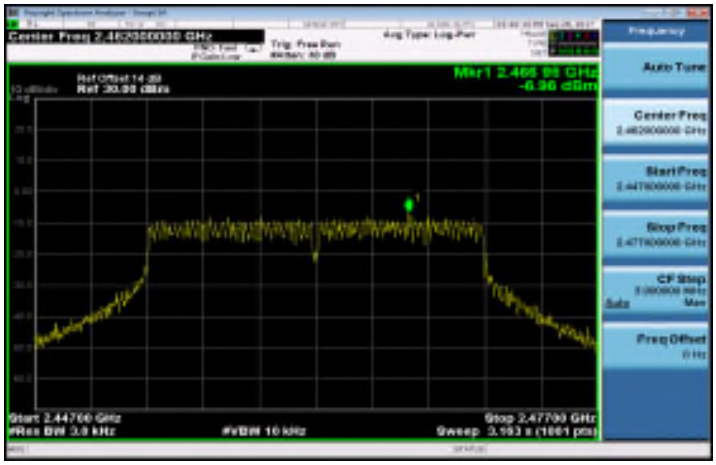
802.11n_HT20 PSD (CH-Mid)



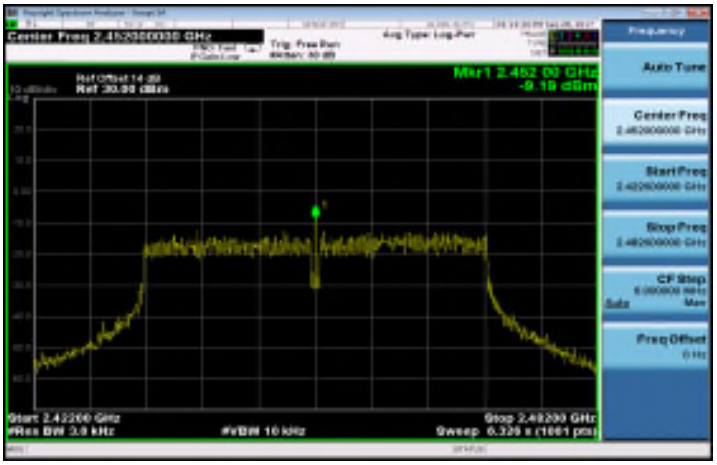
802.11n_HT40 PSD (CH-Mid)



802.11n_HT20 PSD (CH-High)



802.11n_HT40 PSD (CH-High)



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

13.2 Antenna Connected Construction

An embedded-in antenna design is used.

The antenna connector is designed with unique type RF connector and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

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