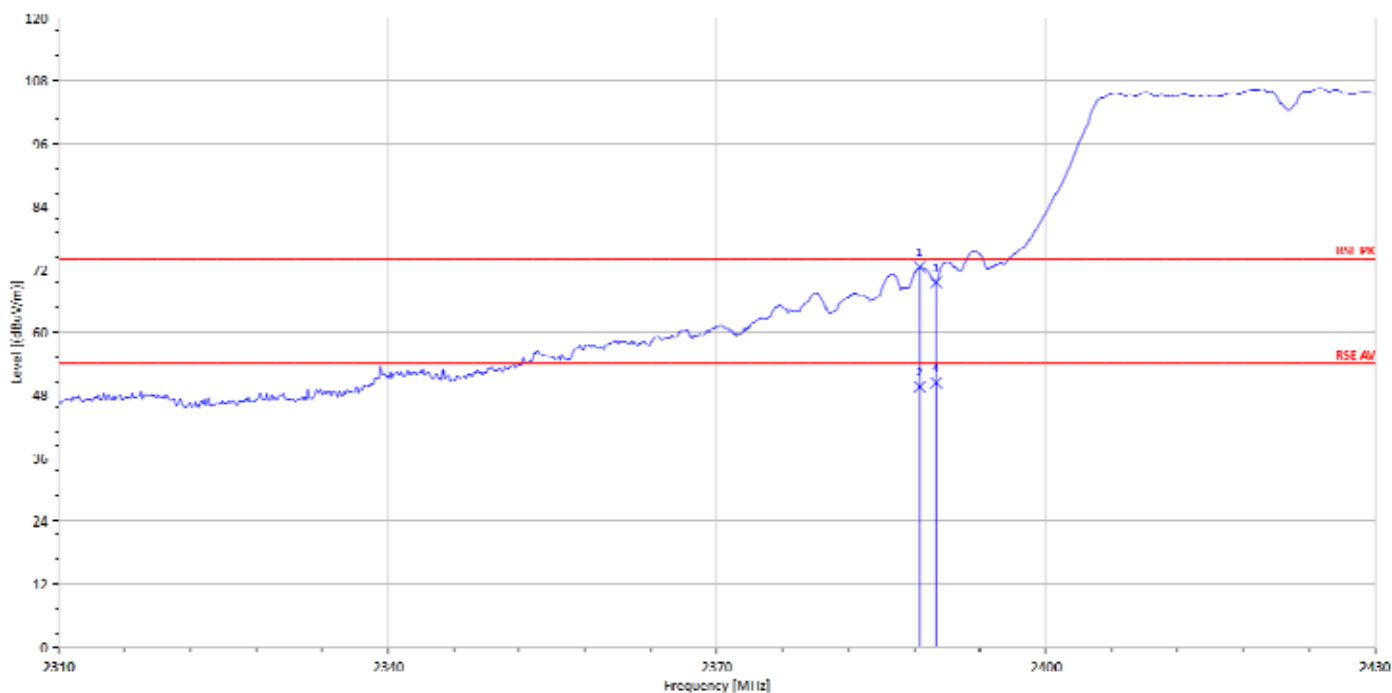


Operation Mode : 802.11n40 Test Date : 2017/7/25
Fundamental Frequency : 2422 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : BE CH Low Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
2388.48	S	Peak	71.60	0.90	72.50	74	-1.50
2388.48	S	Average	48.66	0.90	49.56	54	-4.44
2390.00	E	Peak	68.63	0.92	69.56	74	-4.44
2390.00	E	Average	49.42	0.92	50.34	54	-3.66

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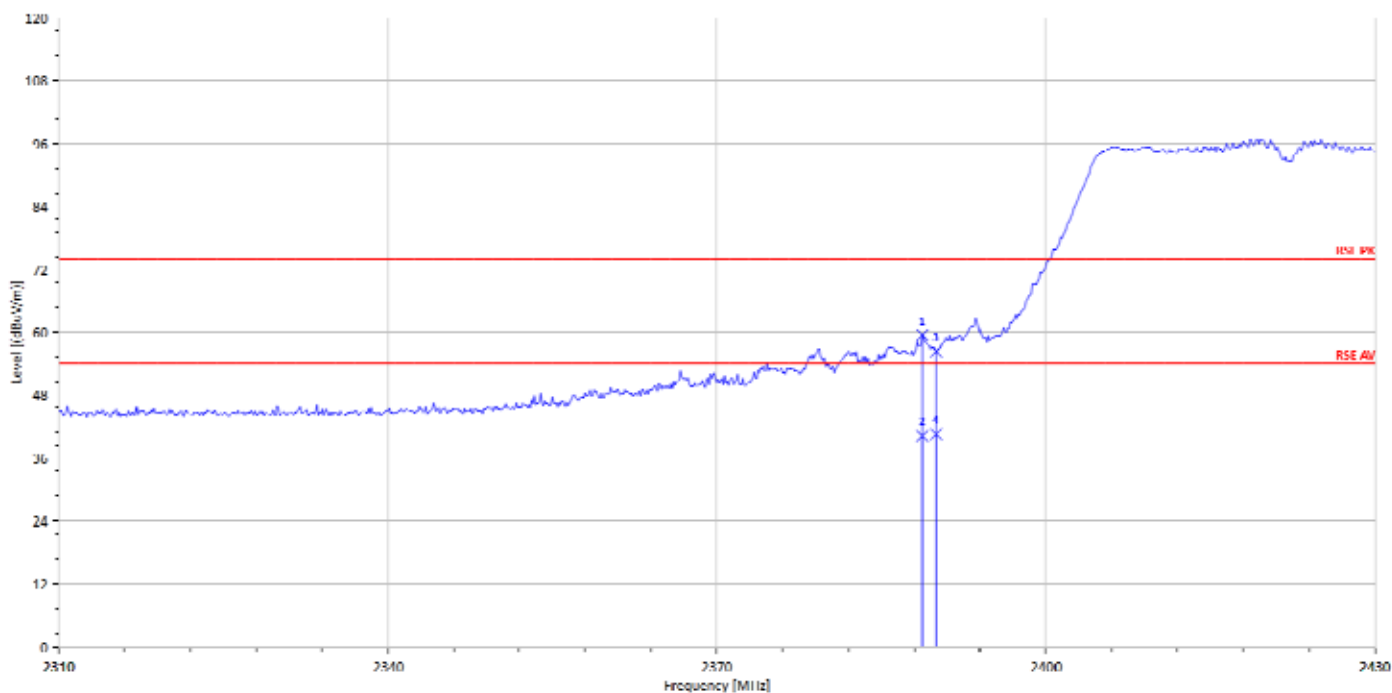
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Operation Mode :	802.11n40	Test Date :	2017/7/26
Fundamental Frequency :	2422 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	BE CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.72	S	Peak	58.54	0.90	59.45	74	-14.55
2388.72	S	Average	39.25	0.90	40.15	54	-13.85
2390.00	E	Peak	55.38	0.92	56.30	74	-17.70
2390.00	E	Average	39.58	0.92	40.50	54	-13.50

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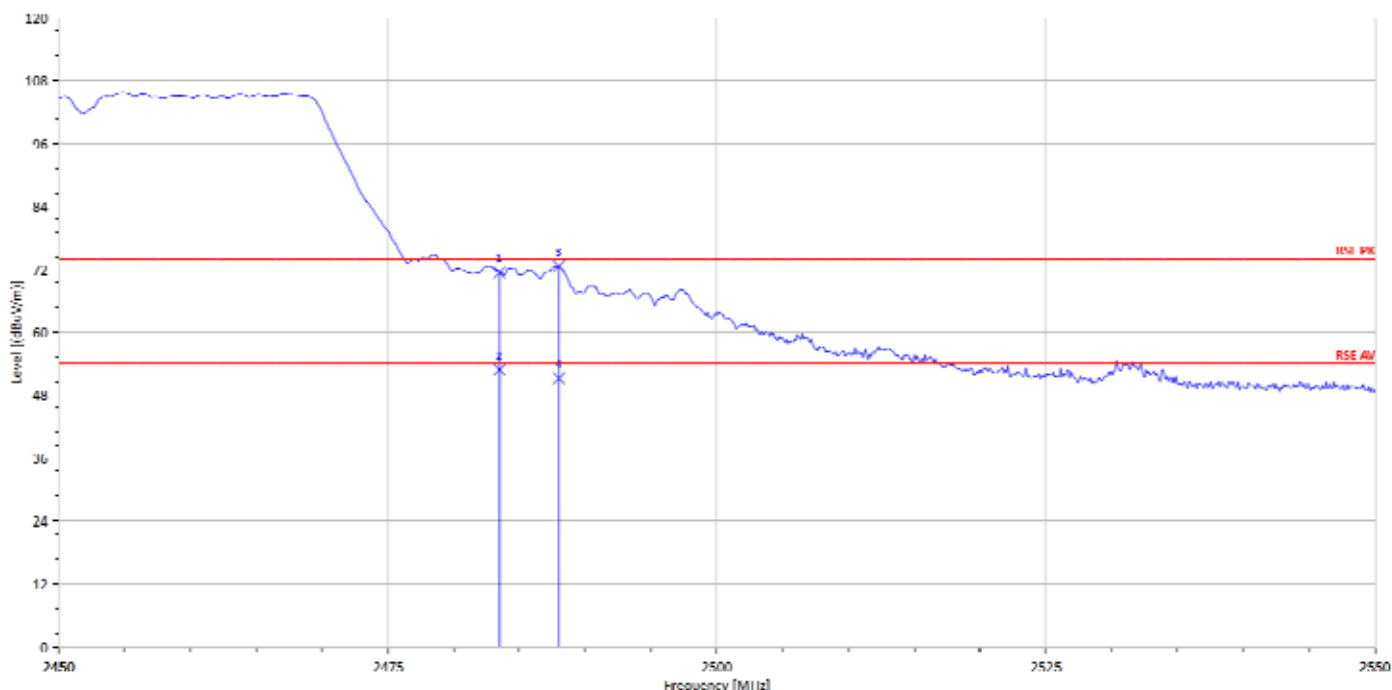
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Operation Mode : 802.11n40 Test Date : 2017/7/26
Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7 deg_C/57RH
Operation Band : BE CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	70.25	1.16	71.41	74	-2.59
2483.50	E	Average	51.67	1.16	52.83	54	-1.17
2488.00	S	Peak	71.44	1.15	72.58	74	-1.42
2488.00	S	Average	50.03	1.15	51.18	54	-2.82

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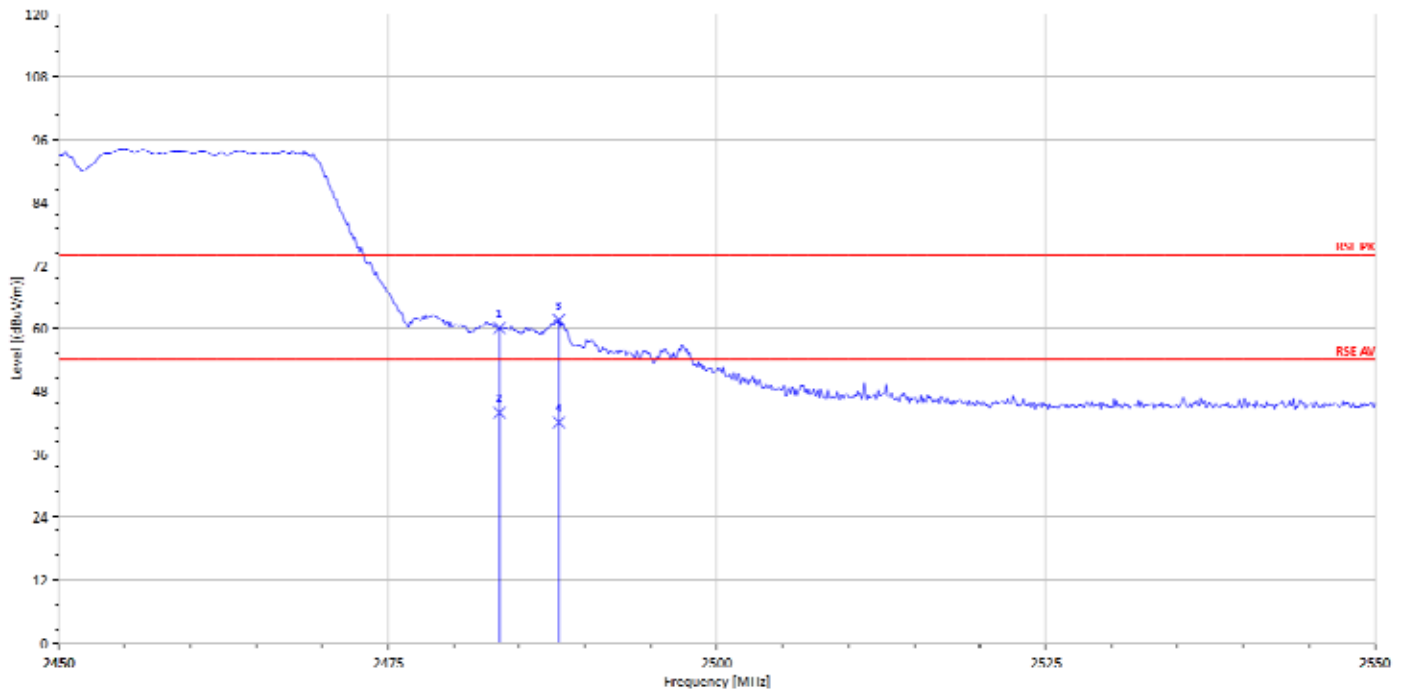
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Operation Mode : 802.11n40 Test Date : 2017/7/26
Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7 deg_C/57RH
Operation Band : BE CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	E	Peak	58.87	1.16	60.03	74	-13.97
2483.50	E	Average	42.68	1.16	43.84	54	-10.16
2488.00	S	Peak	60.43	1.15	61.57	74	-12.43
2488.00	S	Average	40.84	1.15	41.99	54	-12.01

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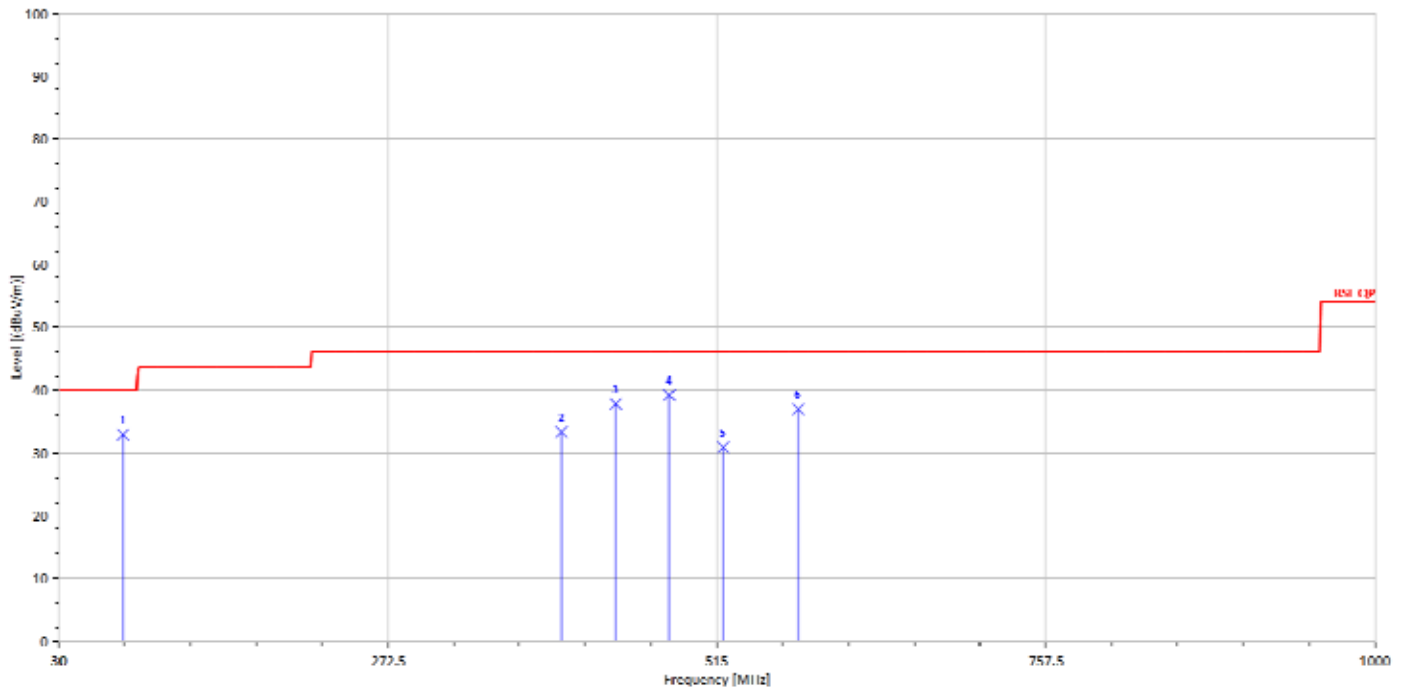
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Below 1GHz Worst-Case Data:

Radiated Spurious Emission Measurement Result

Operation Mode :	802.11g	Test Date :	2017/7/26
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
77.53	S	Peak	54.10	-21.17	32.93	40	-7.07
400.54	S	Peak	43.11	-9.76	33.35	46	-12.65
440.31	S	Peak	47.18	-9.34	37.84	46	-8.16
480.08	S	Peak	47.02	-7.81	39.22	46	-6.78
519.85	S	Peak	38.23	-7.33	30.90	46	-15.10
575.14	S	Peak	43.23	-6.24	36.99	46	-9.01

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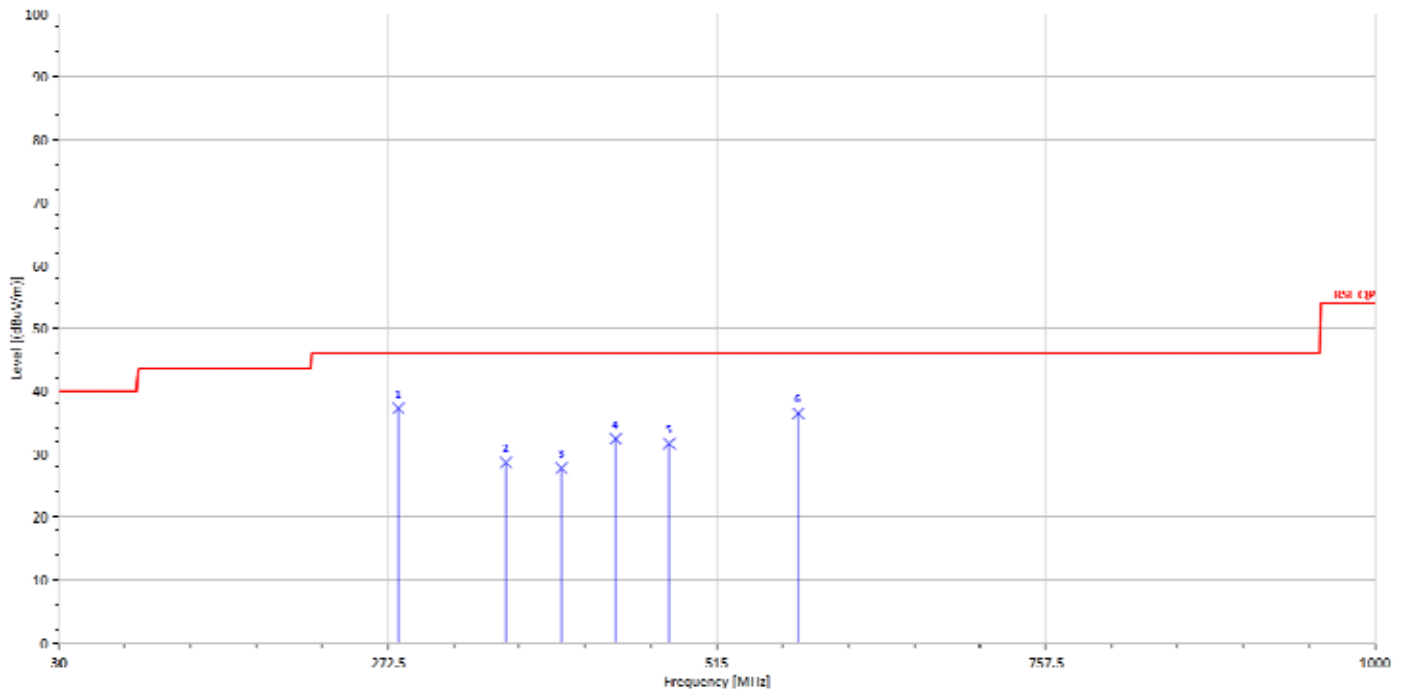
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Operation Mode : 802.11g Test Date : 2017/7/26
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH Low Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
280.26	S	Peak	50.82	-13.61	37.22	46	-8.78
359.80	S	Peak	39.80	-11.20	28.59	46	-17.41
400.54	S	Peak	37.46	-9.76	27.69	46	-18.31
440.31	S	Peak	41.69	-9.34	32.35	46	-13.65
480.08	S	Peak	39.42	-7.81	31.61	46	-14.39
575.14	S	Peak	42.66	-6.24	36.41	46	-9.59

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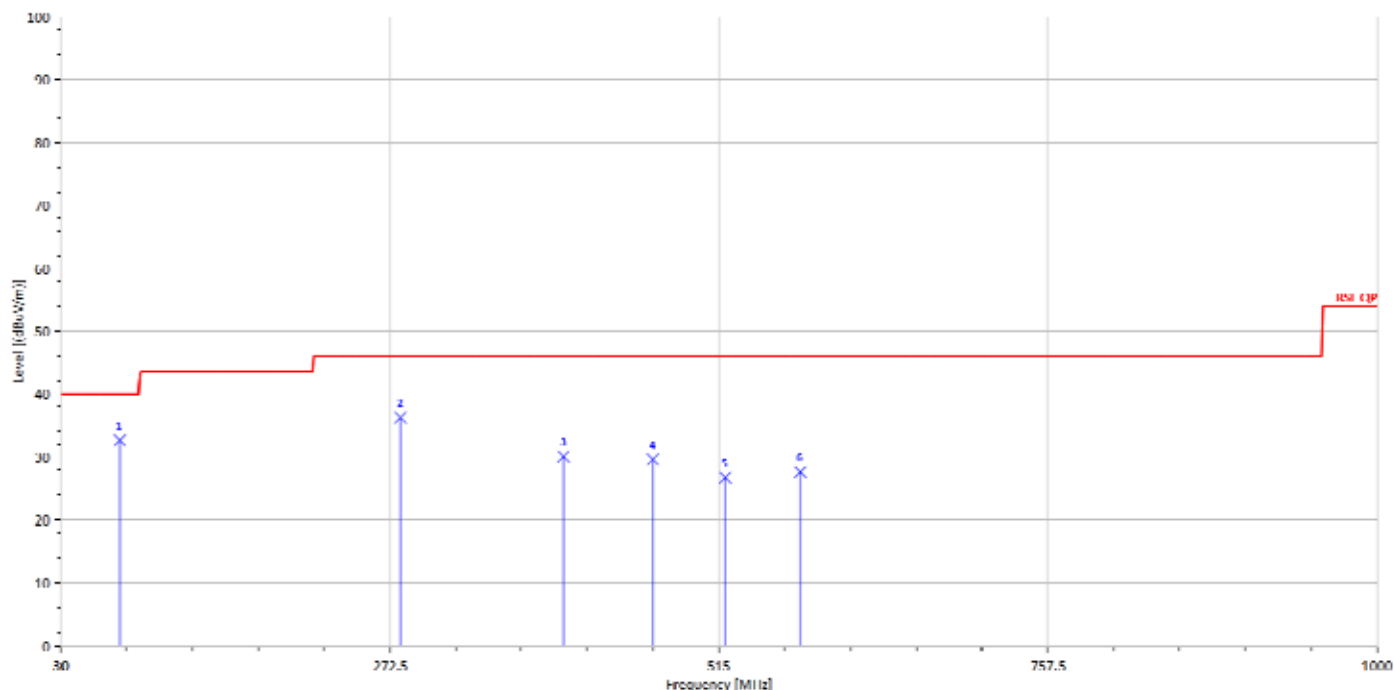
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Operation Mode : 802.11g Test Date : 2017/7/26
 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH Mid Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
73.65	S	Peak	54.07	-21.46	32.61	40	-7.39
280.26	S	Peak	49.83	-13.61	36.22	46	-9.78
400.54	S	Peak	39.79	-9.76	30.02	46	-15.98
466.50	S	Peak	37.48	-7.93	29.55	46	-16.45
519.85	S	Peak	34.01	-7.33	26.67	46	-19.33
575.14	S	Peak	33.81	-6.24	27.56	46	-18.44

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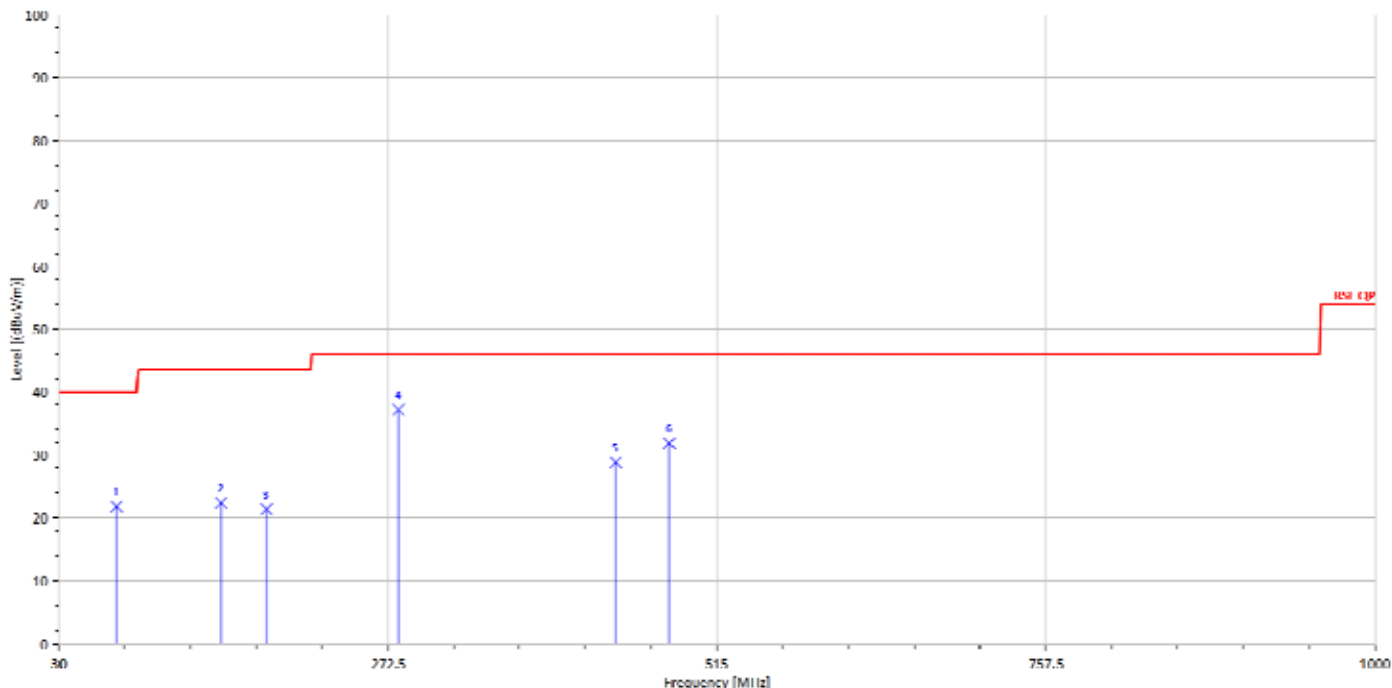
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Operation Mode :	802.11g	Test Date :	2017/7/26
Fundamental Frequency :	2437 MHz	Temp. / Humi. :	22.7 deg_C/57RH
Operation Band :	TX CH Mid	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
72.68	S	Peak	43.29	-21.55	21.75	40	-18.25
149.31	S	Peak	39.05	-16.73	22.33	43.5	-21.17
183.26	S	Peak	39.81	-18.51	21.29	43.5	-22.21
280.26	S	Peak	50.77	-13.61	37.17	46	-8.83
440.31	S	Peak	38.13	-9.34	28.79	46	-17.21
480.08	S	Peak	39.64	-7.81	31.83	46	-14.17

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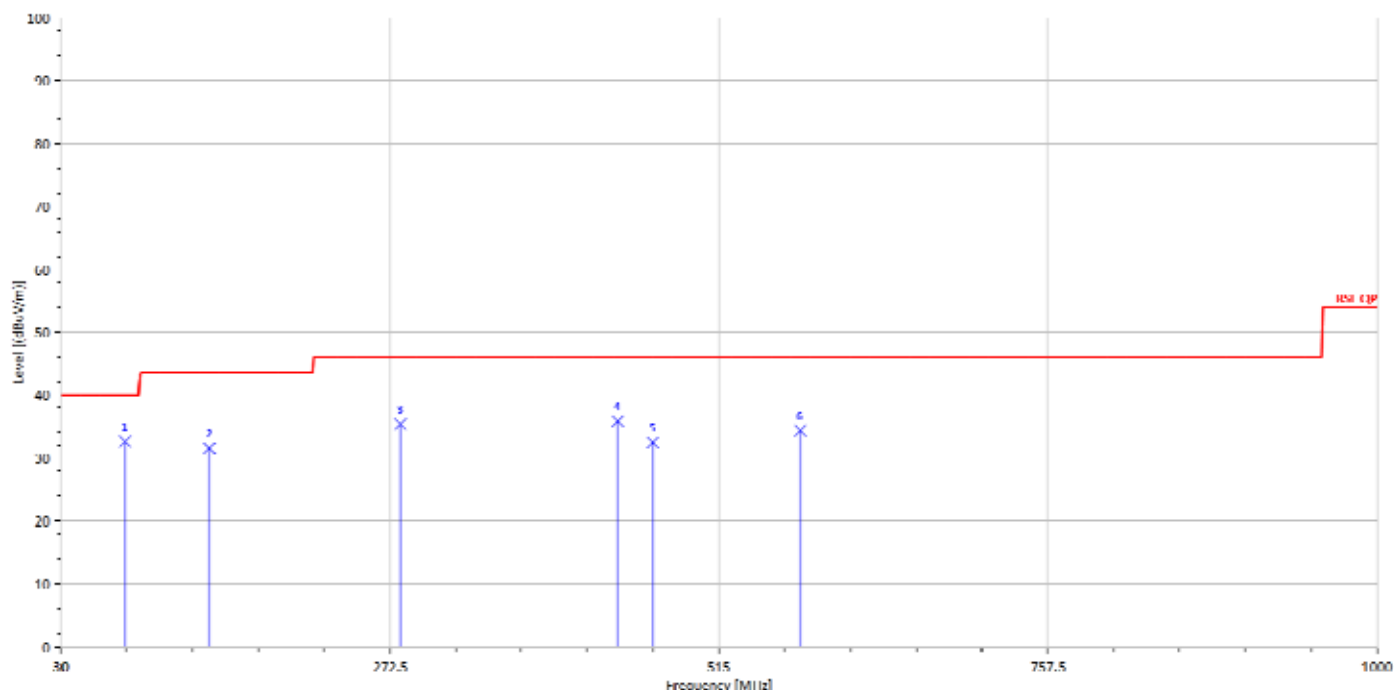
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Operation Mode : 802.11g Test Date : 2017/7/26
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH High Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
77.53	S	Peak	53.75	-21.17	32.58	40	-7.42
139.61	S	Peak	47.50	-16.02	31.48	43.5	-12.02
280.26	S	Peak	48.95	-13.61	35.35	46	-10.65
440.31	S	Peak	45.17	-9.34	35.82	46	-10.18
466.50	S	Peak	40.36	-7.93	32.43	46	-13.57
575.14	S	Peak	40.58	-6.24	34.33	46	-11.67

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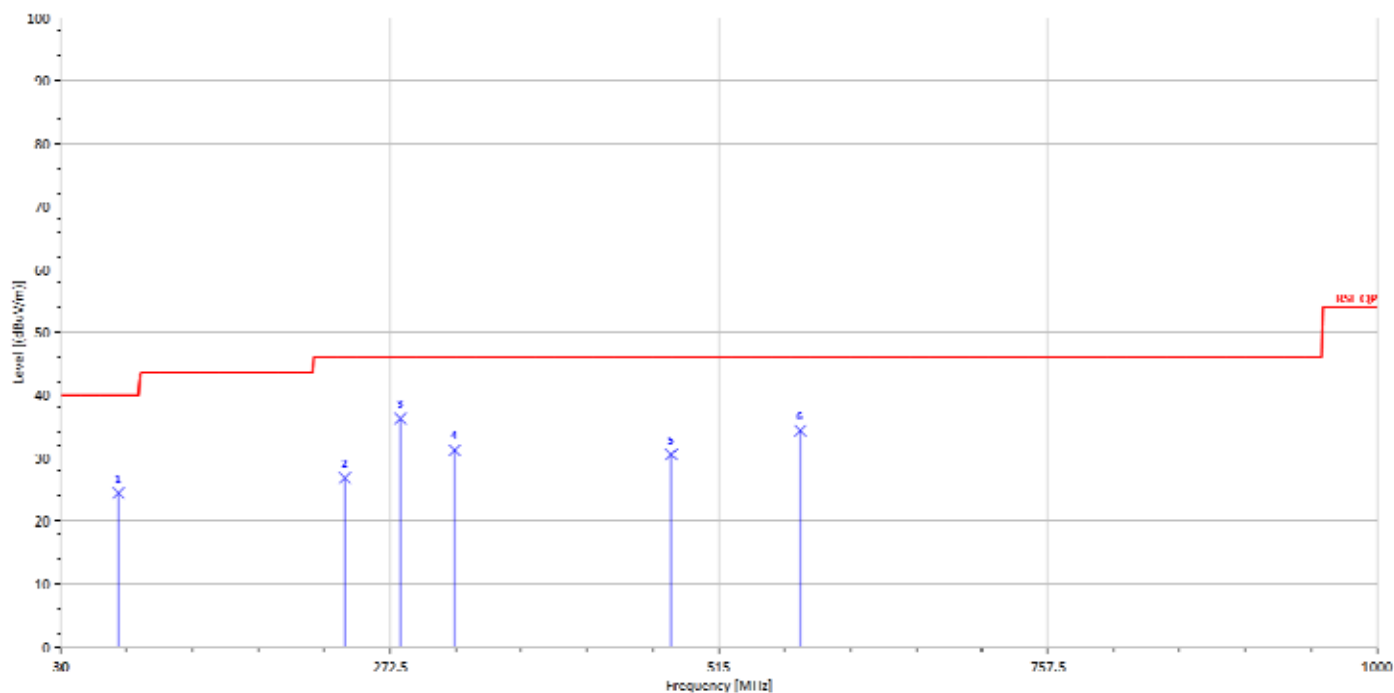
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Operation Mode : 802.11g Test Date : 2017/7/26
 Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH High Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
72.68	S	Peak	45.90	-21.55	24.35	40	-15.65
239.52	S	Peak	42.06	-15.28	26.78	46	-19.22
280.26	S	Peak	49.84	-13.61	36.24	46	-9.76
320.03	S	Peak	43.47	-12.30	31.18	46	-14.82
480.08	S	Peak	38.30	-7.81	30.50	46	-15.50
575.14	S	Peak	40.55	-6.24	34.30	46	-11.70

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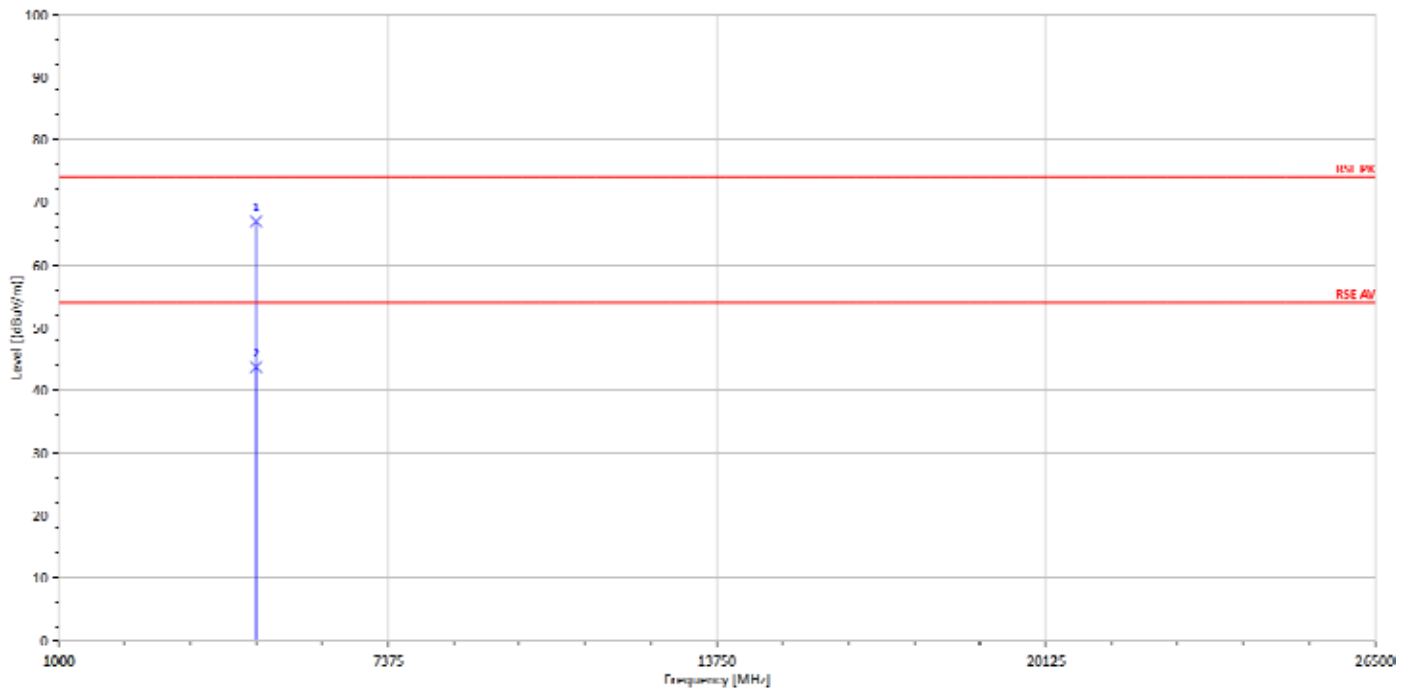
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Above 1GHz Data:

Radiated Spurious Emission Measurement Result

Operation Mode :	802.11b	Test Date :	2017/7/26
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Peak	59.27	7.59	66.86	74	-7.14
4824.00	H	Average	36.13	7.58	43.71	54	-10.29

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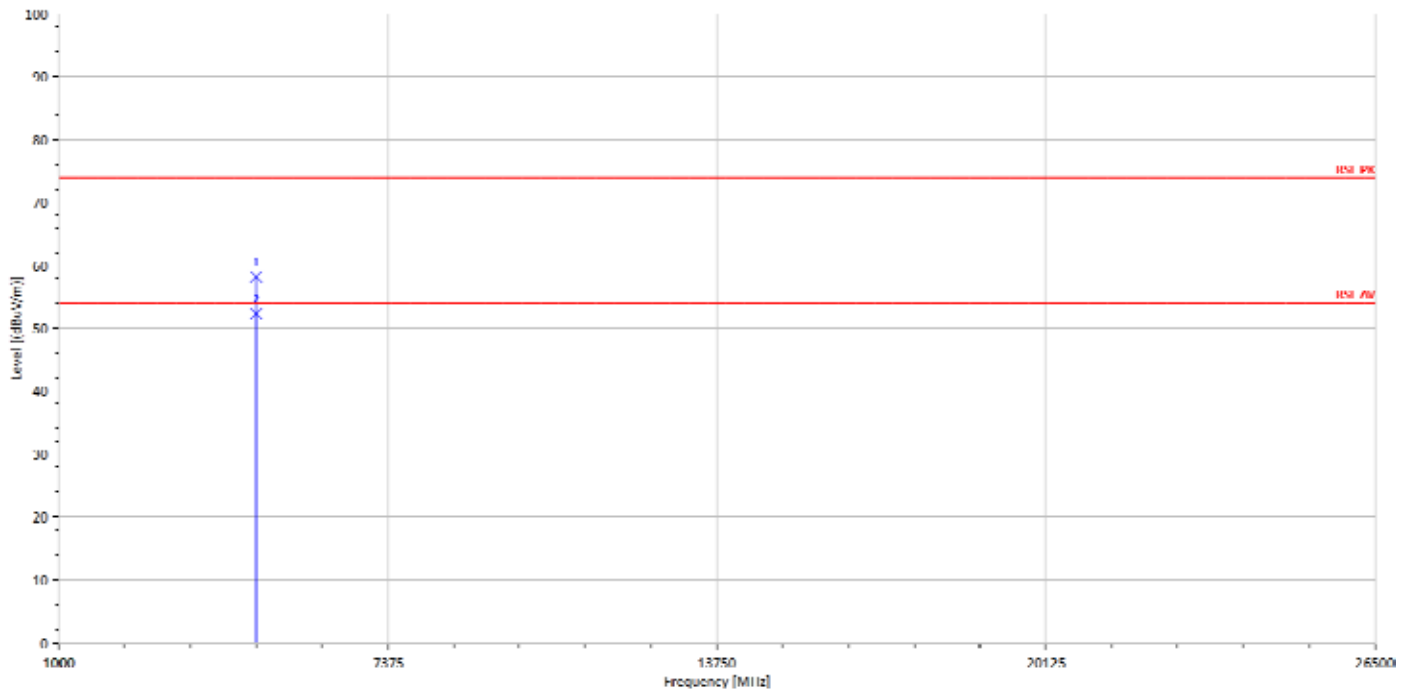
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Operation Mode : 802.11b Test Date : 2017/7/26
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH Low Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Peak	50.59	7.59	58.18	74	-15.82
4824.00	H	Average	44.73	7.58	52.31	54	-1.69

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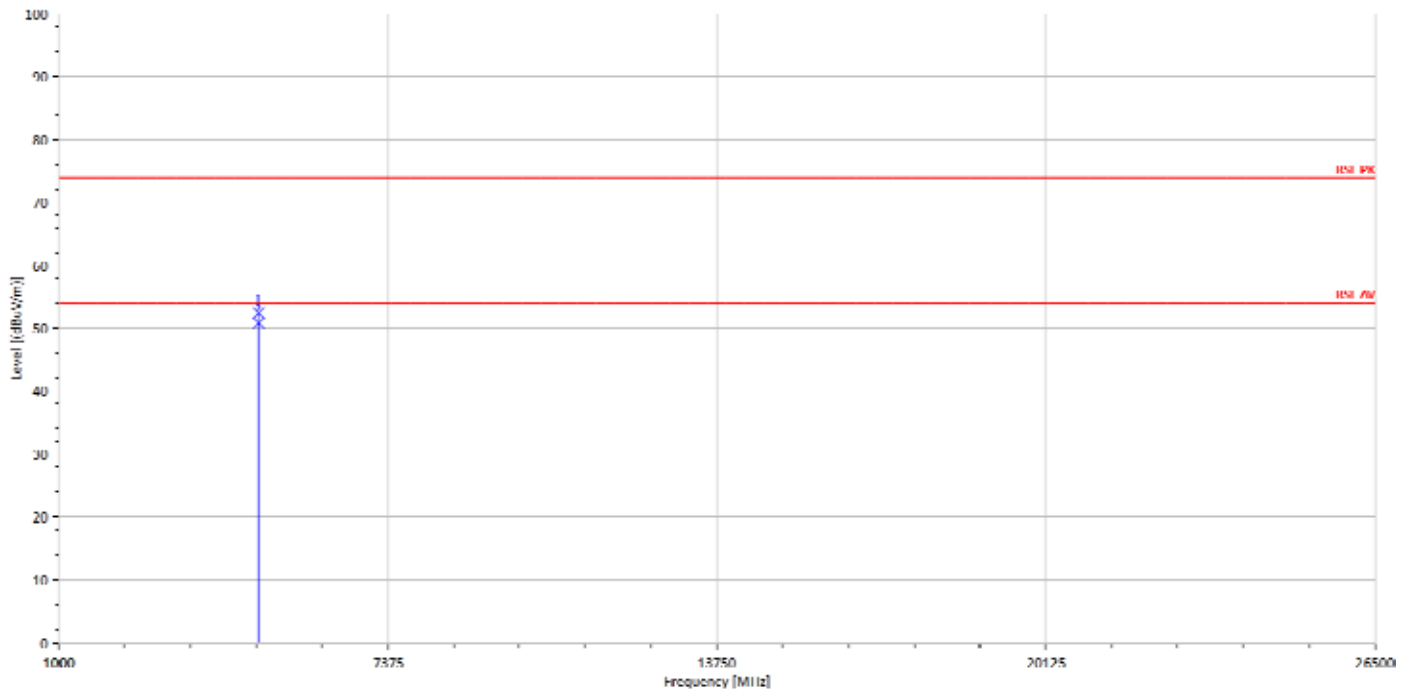
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Operation Mode : 802.11b Test Date : 2017/7/26
Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7 deg_C/57RH
Operation Band : TX CH Mid Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	44.57	7.86	52.43	74	-21.57
4874.00	H	Average	42.93	7.91	50.84	54	-3.16

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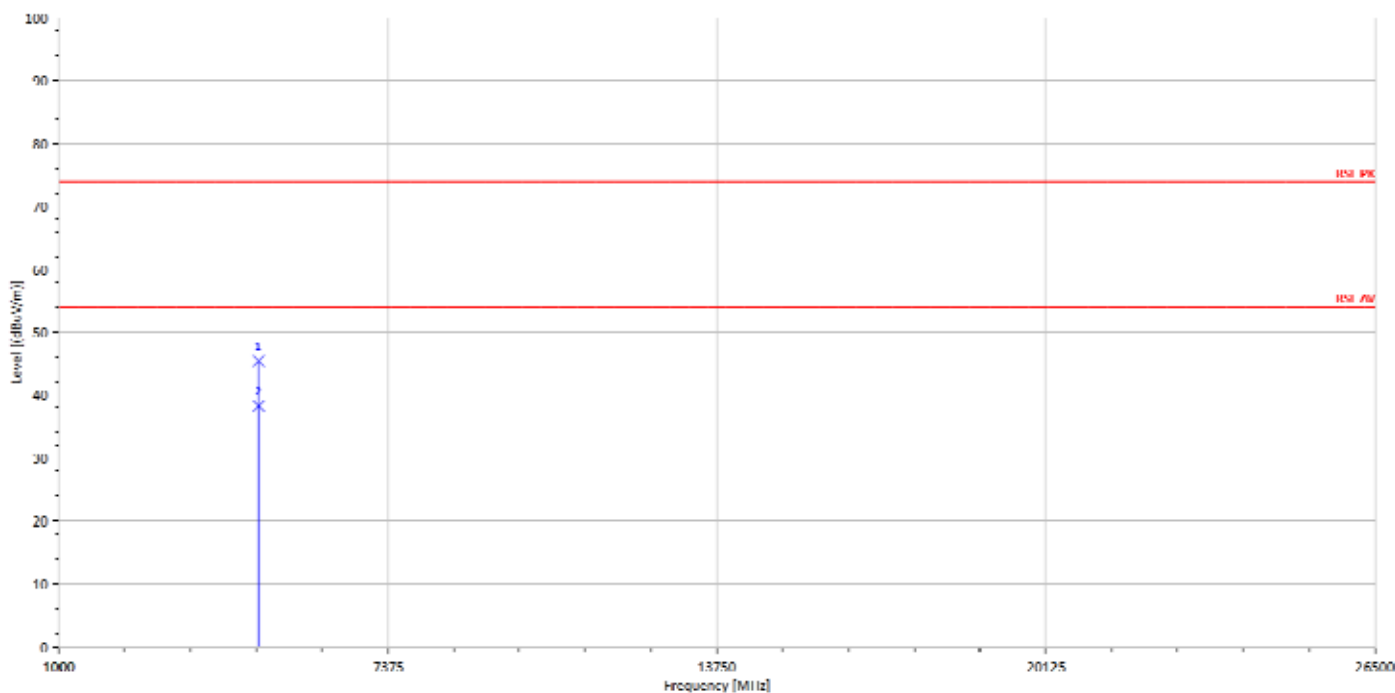
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Operation Mode : 802.11b Test Date : 2017/7/26
Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7 deg_C/57RH
Operation Band : TX CH Mid Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	37.55	7.86	45.41	74	-28.59
4874.00	H	Average	30.34	7.91	38.25	54	-15.75

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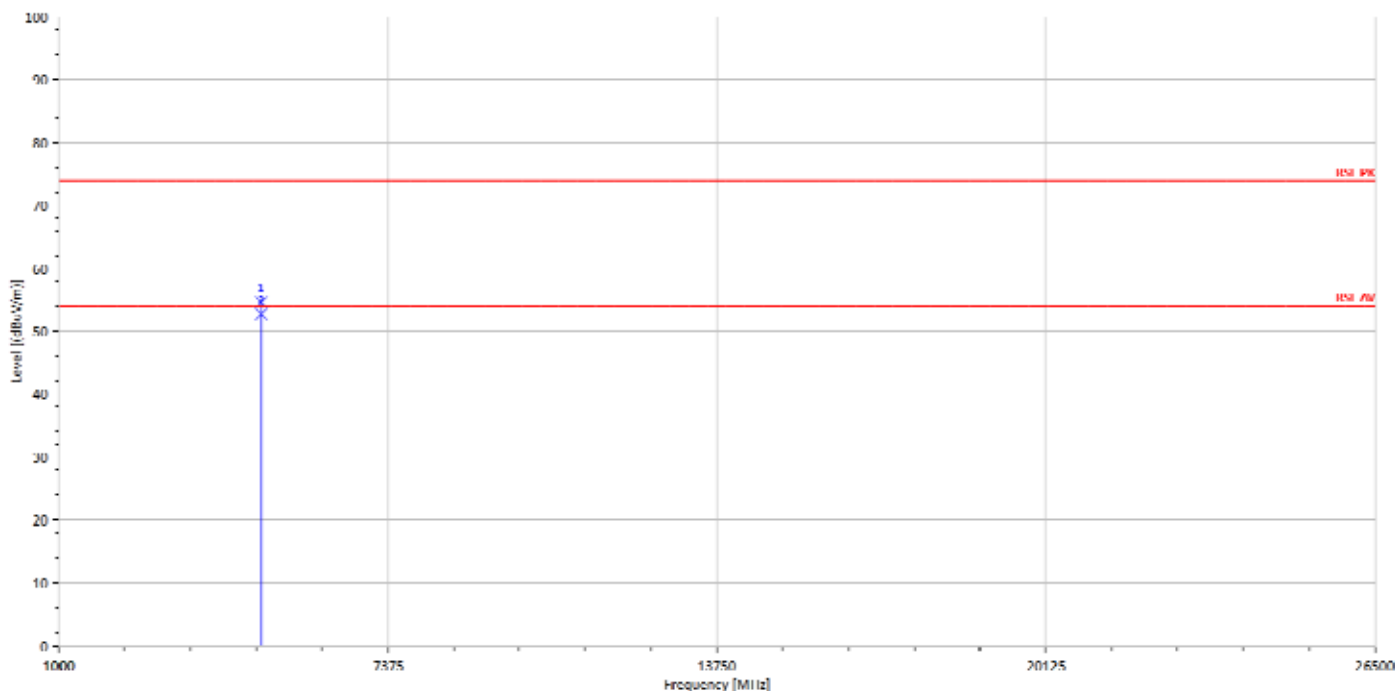
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Operation Mode : 802.11b Test Date : 2017/7/26
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	H	Peak	46.61	8.00	54.61	74	-19.39
4924.00	H	Average	44.81	7.92	52.73	54	-1.27

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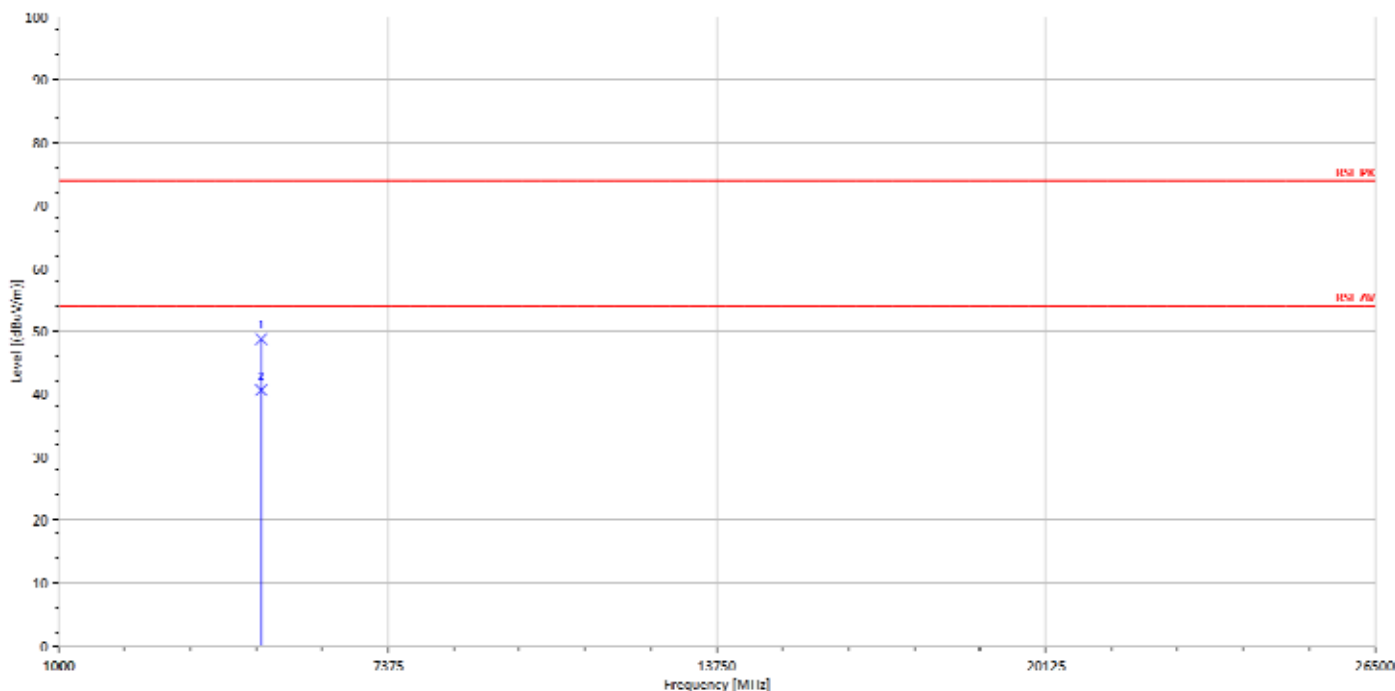
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Operation Mode : 802.11b Test Date : 2017/7/26
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	H	Peak	40.75	8.00	48.75	74	-25.25
4924.00	H	Average	32.68	7.92	40.60	54	-13.40

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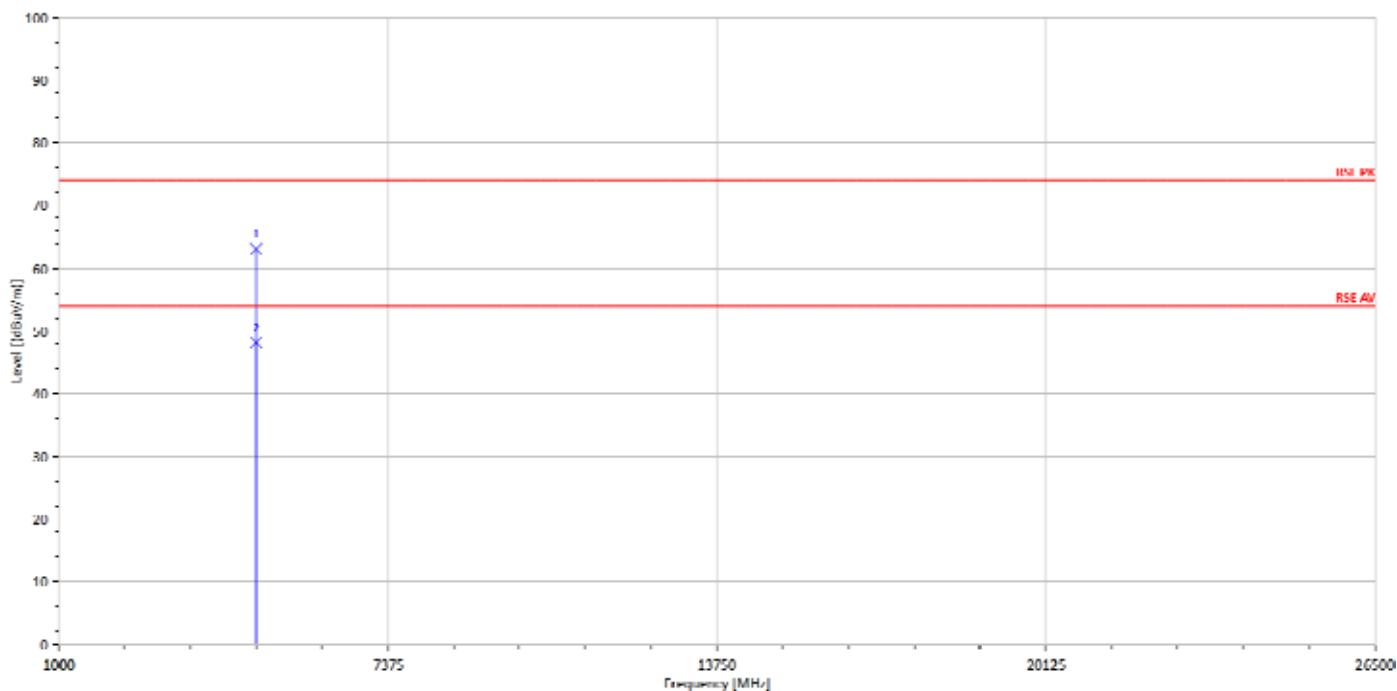
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Operation Mode :	802.11g	Test Date :	2017/7/26
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	H	Peak	55.56	7.56	63.12	74	-10.88
4824.00	H	Average	40.63	7.58	48.21	54	-5.79

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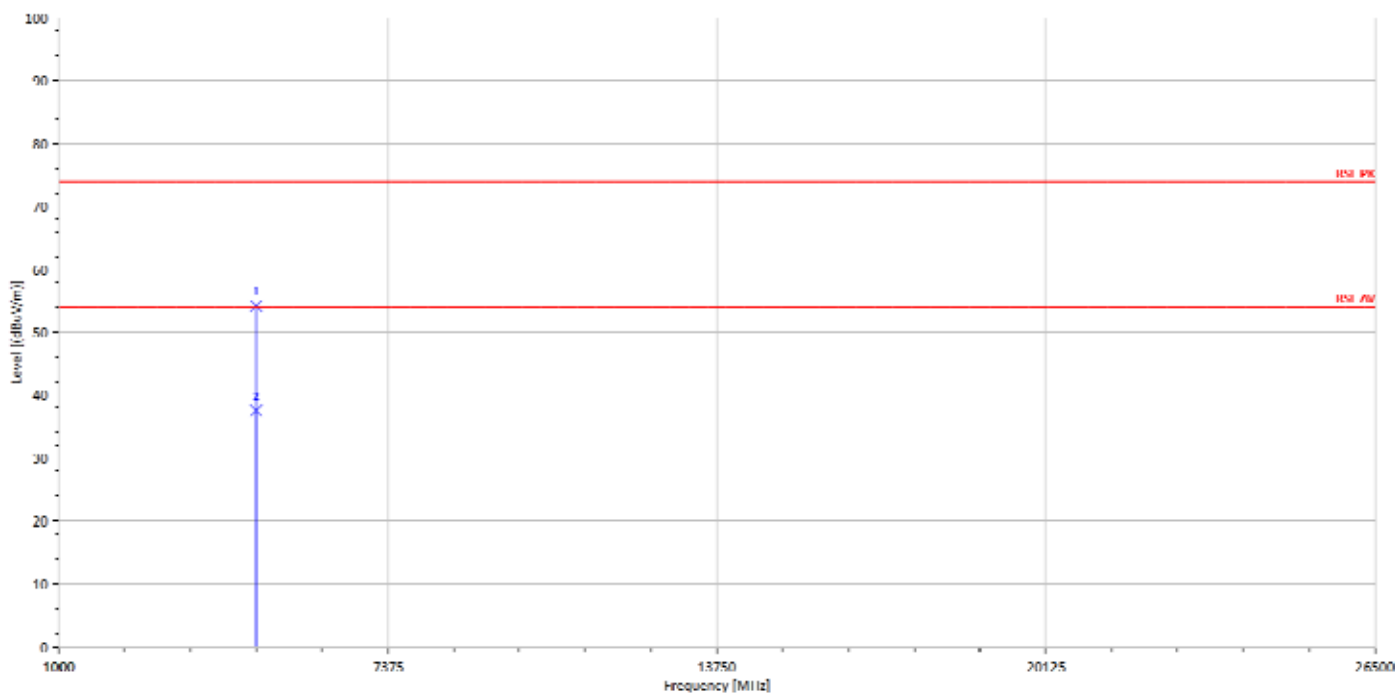
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Operation Mode :	802.11g	Test Date :	2017/7/26
Fundamental Frequency :	2412 MHz	Temp. / Humi. :	22.7deg_C/57RH
Operation Band :	TX CH Low	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	H	Peak	46.62	7.56	54.18	74	-19.82
4824.00	H	Average	29.95	7.58	37.53	54	-16.47

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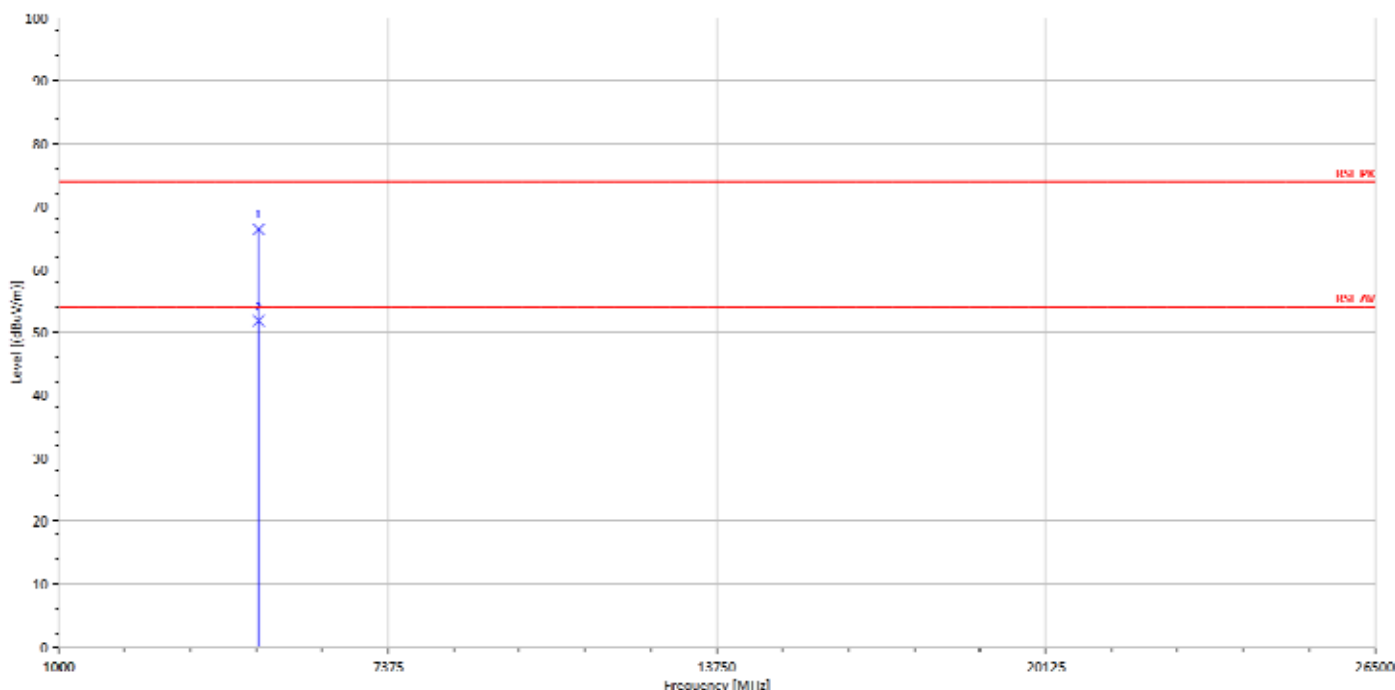
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Operation Mode : 802.11g Test Date : 2017/7/26
Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7 deg_C/57RH
Operation Band : TX CH Mid Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	H	Peak	58.54	7.86	66.40	74	-7.60
4874.00	H	Average	43.92	7.91	51.83	54	-2.17

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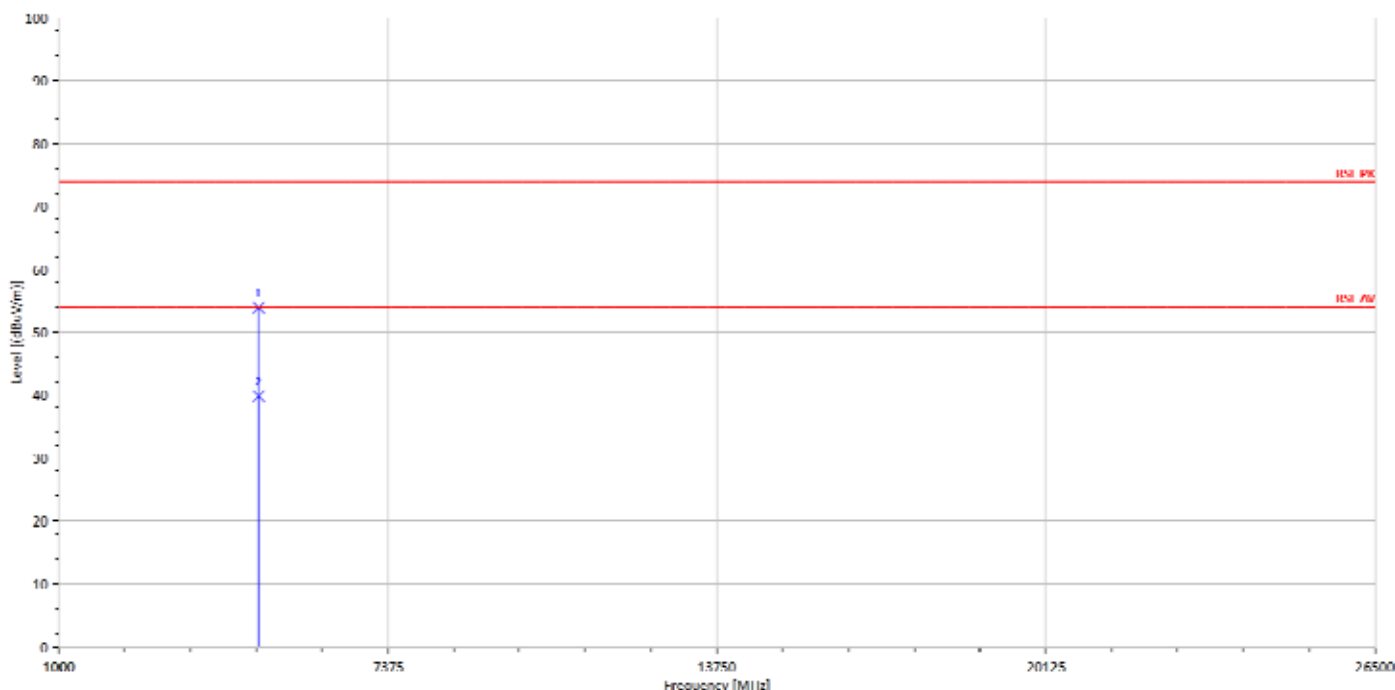
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Operation Mode : 802.11g Test Date : 2017/7/26
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Operation Band : TX CH Mid Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	H	Peak	46.06	7.86	53.92	74	-20.08
4874.00	H	Average	31.91	7.91	39.82	54	-14.18

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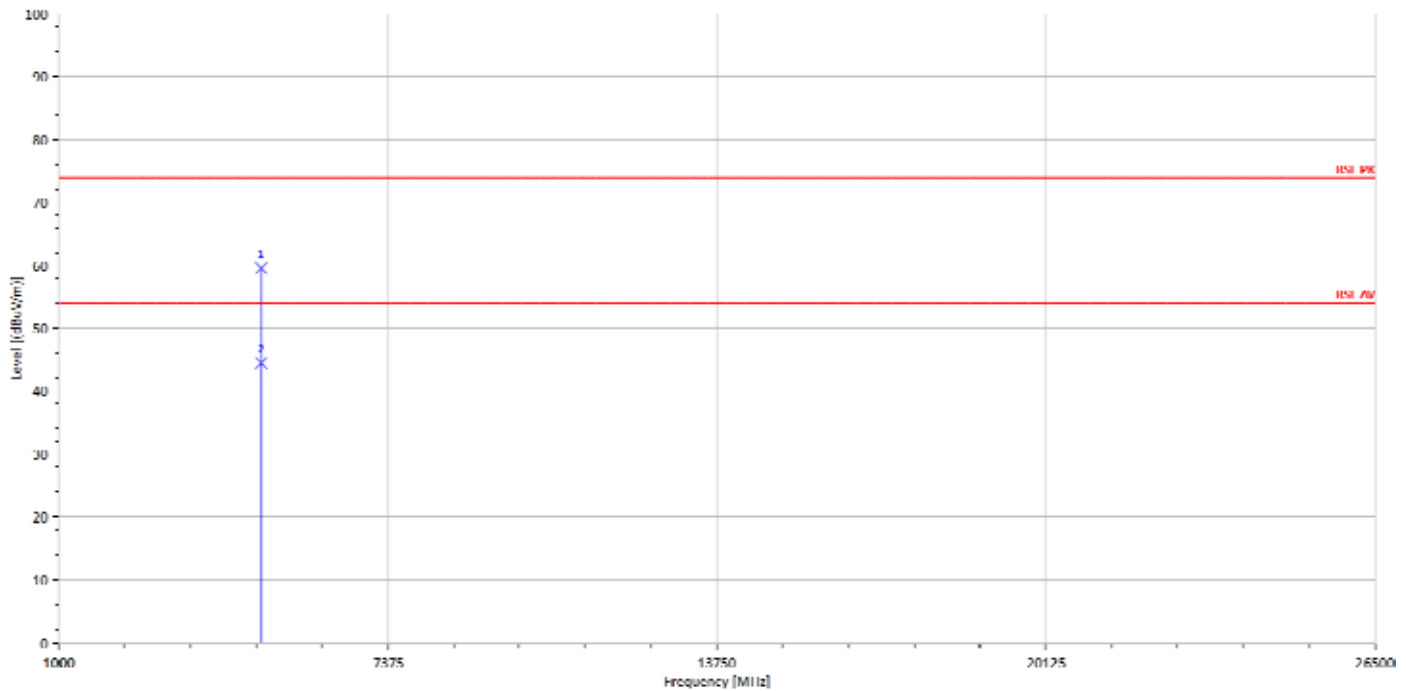
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Operation Band : TX CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	H	Peak	51.56	8.00	59.56	74	-14.44
4924.00	H	Average	36.53	7.92	44.45	54	-9.55

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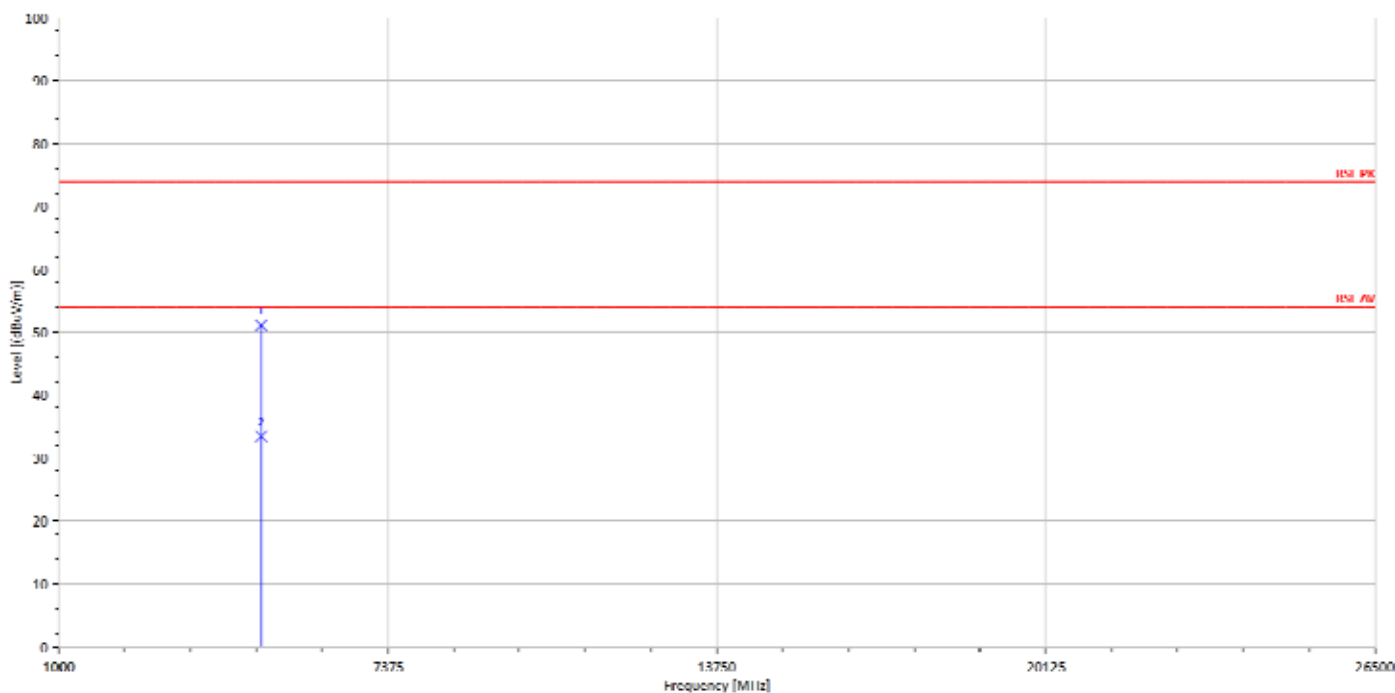
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Operation Mode : 802.11g Test Date : 2017/7/26
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	H	Peak	43.09	8.00	51.09	74	-22.91
4924.00	H	Average	25.49	7.92	33.41	54	-20.59

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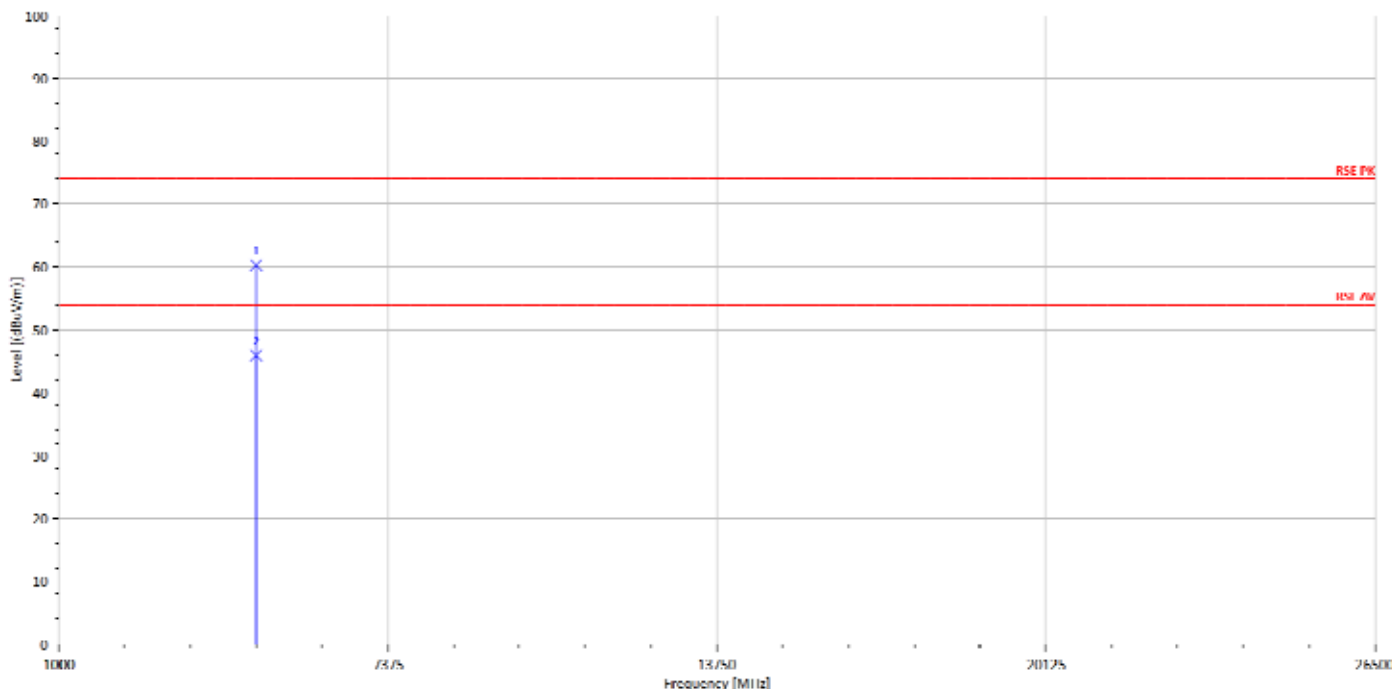
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Operation Mode : 802.11n20 Test Date : 2017/7/26
Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH Low Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	H	Peak	52.61	7.59	60.20	74	-13.80
4824.00	H	Average	38.41	7.58	45.99	54	-8.01

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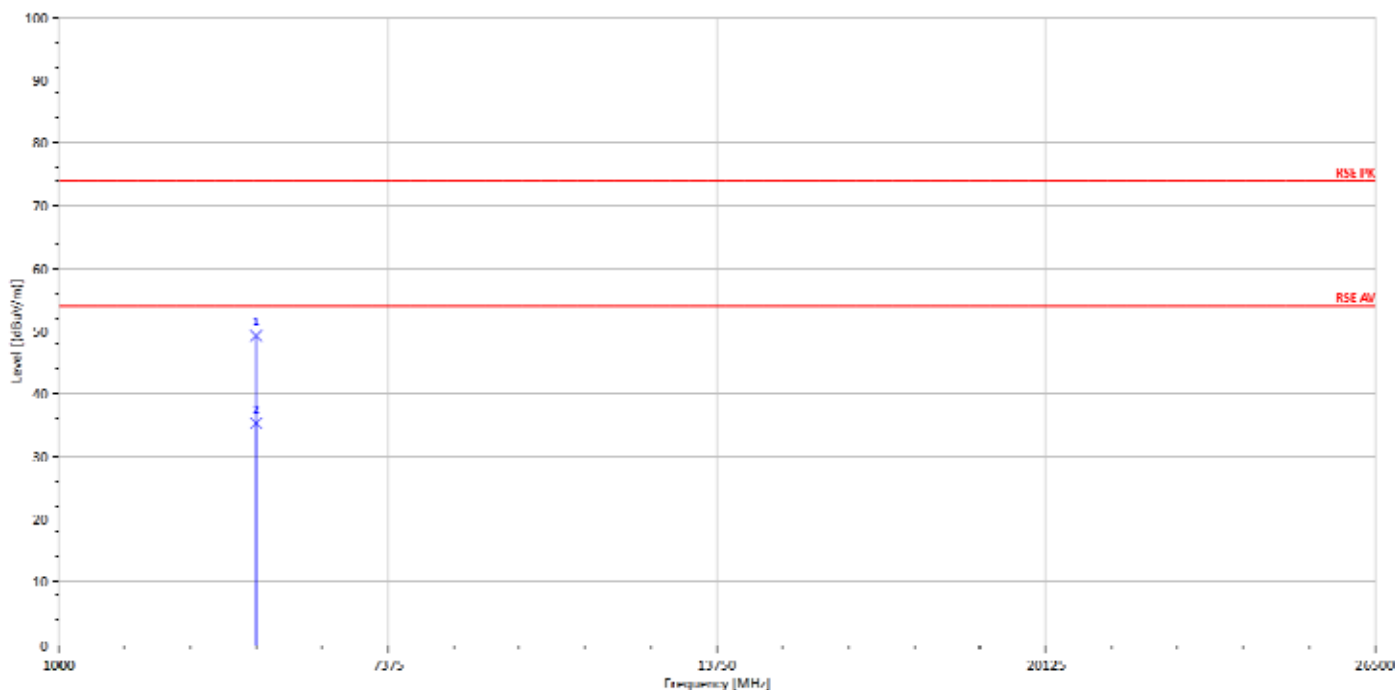
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Fundamental Frequency : 2412 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH Low Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	H	Peak	41.68	7.59	49.27	74	-24.73
4824.00	H	Average	27.72	7.58	35.30	54	-18.70

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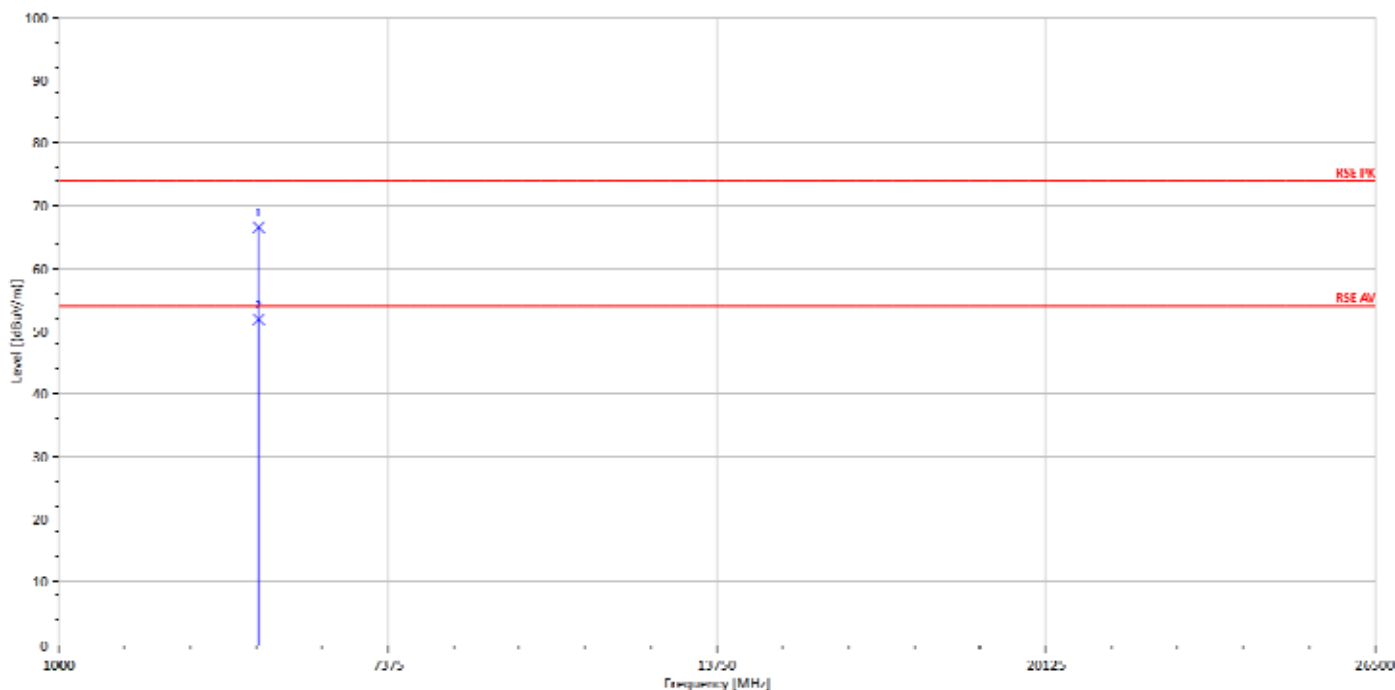
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Operation Mode : 802.11n20 Test Date : 2017/7/26
Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH Mid Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	58.75	7.87	66.61	74	-7.39
4874.00	H	Average	43.99	7.91	51.90	54	-2.10

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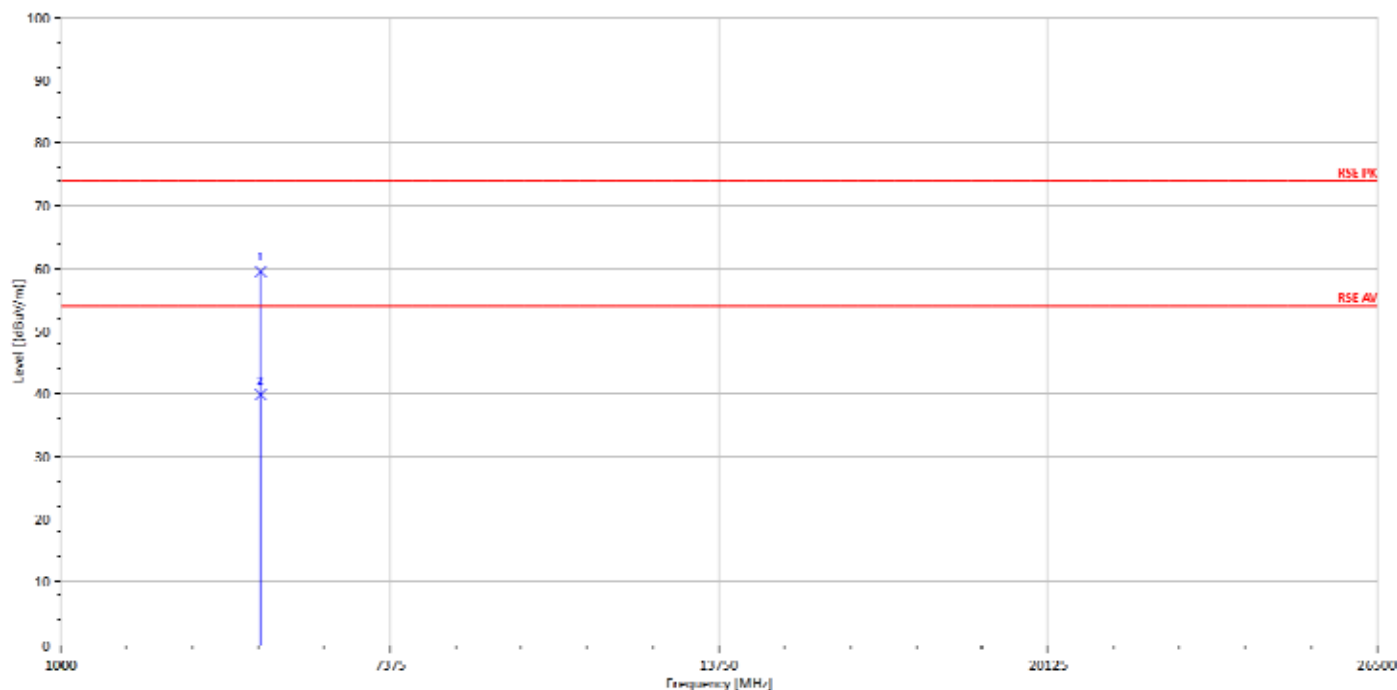
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 Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH Mid Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	H	Peak	51.66	7.87	59.53	74	-14.47
4874.00	H	Average	31.96	7.91	39.87	54	-14.13

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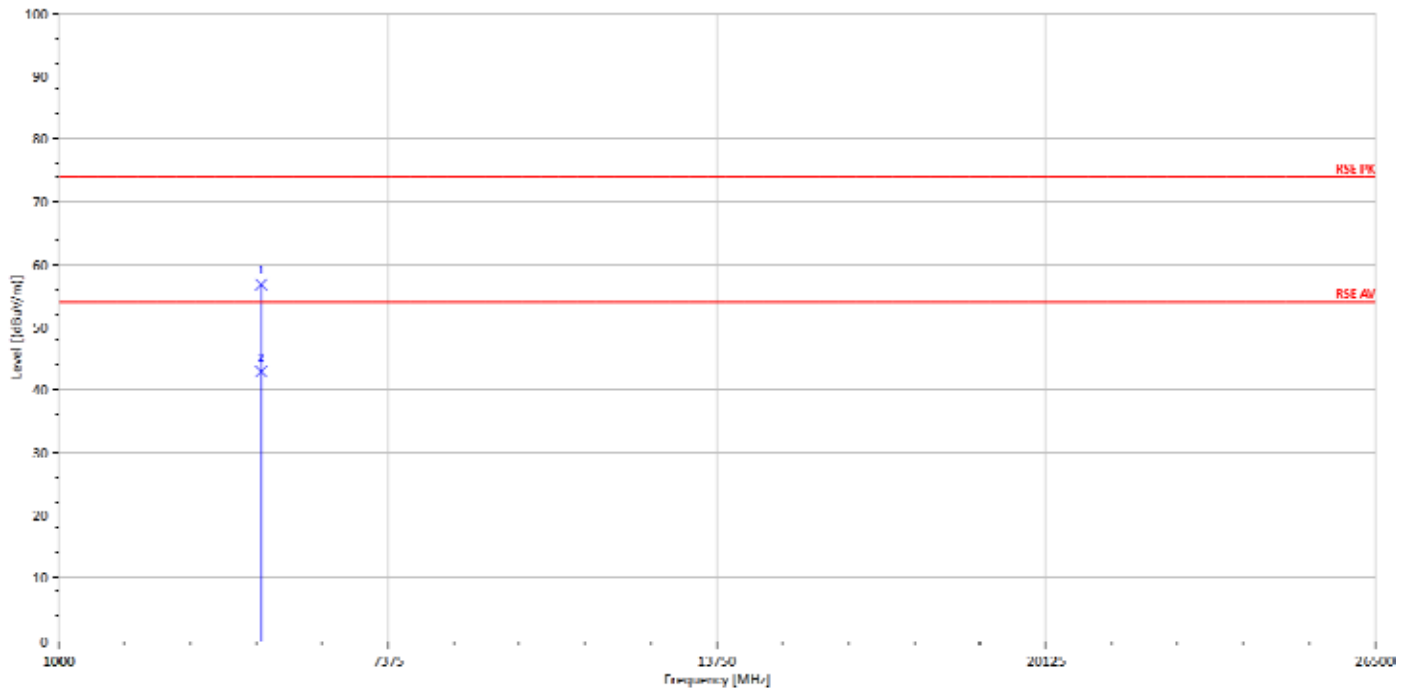
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Operation Mode : 802.11n20 Test Date : 2017/7/26
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	H	Peak	48.82	8.00	56.82	74	-17.18
4924.00	H	Average	34.99	7.92	42.91	54	-11.09

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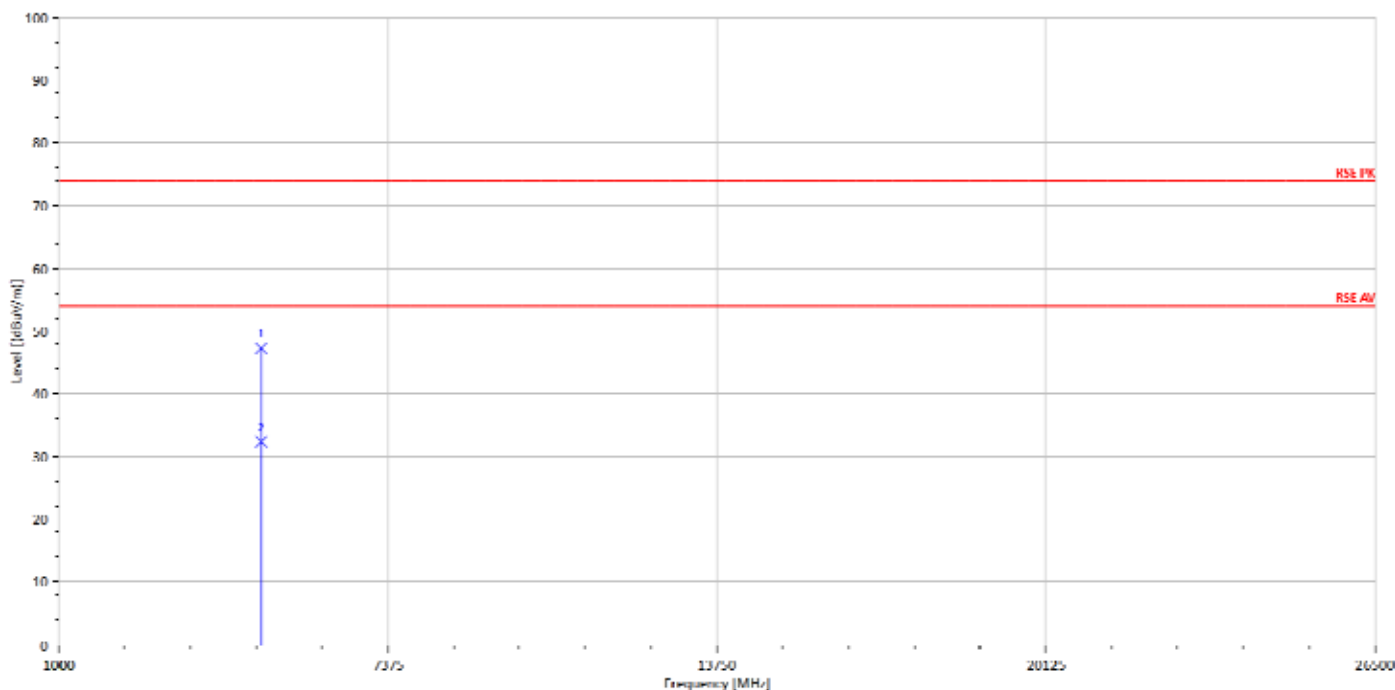
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Operation Mode : 802.11n20 Test Date : 2017/7/26
Fundamental Frequency : 2462 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	H	Peak	39.26	8.00	47.27	74	-26.73
4924.00	H	Average	24.43	7.92	32.35	54	-21.65

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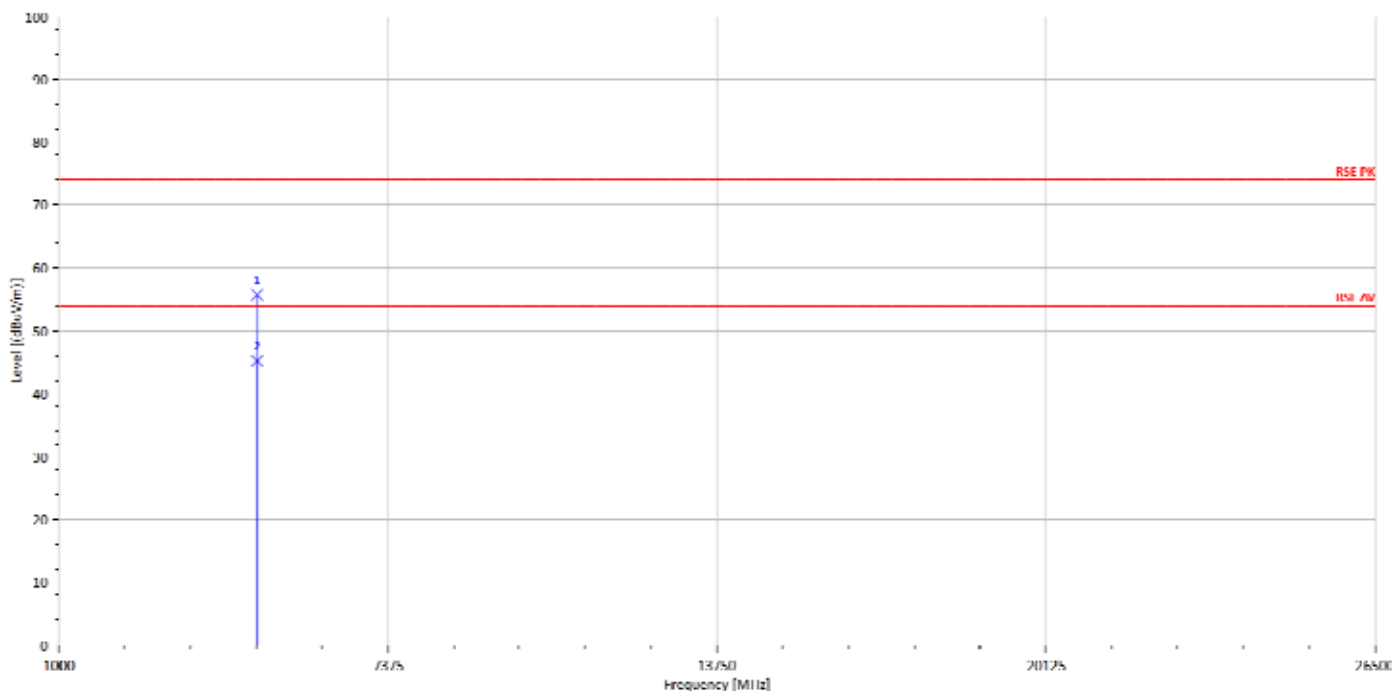
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Operation Mode : 802.11n40 Test Date : 2017/7/26
Fundamental Frequency : 2422 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH Low Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4844.00	H	Peak	48.26	7.54	55.80	74	-18.20
4844.00	H	Average	37.72	7.55	45.27	54	-8.73

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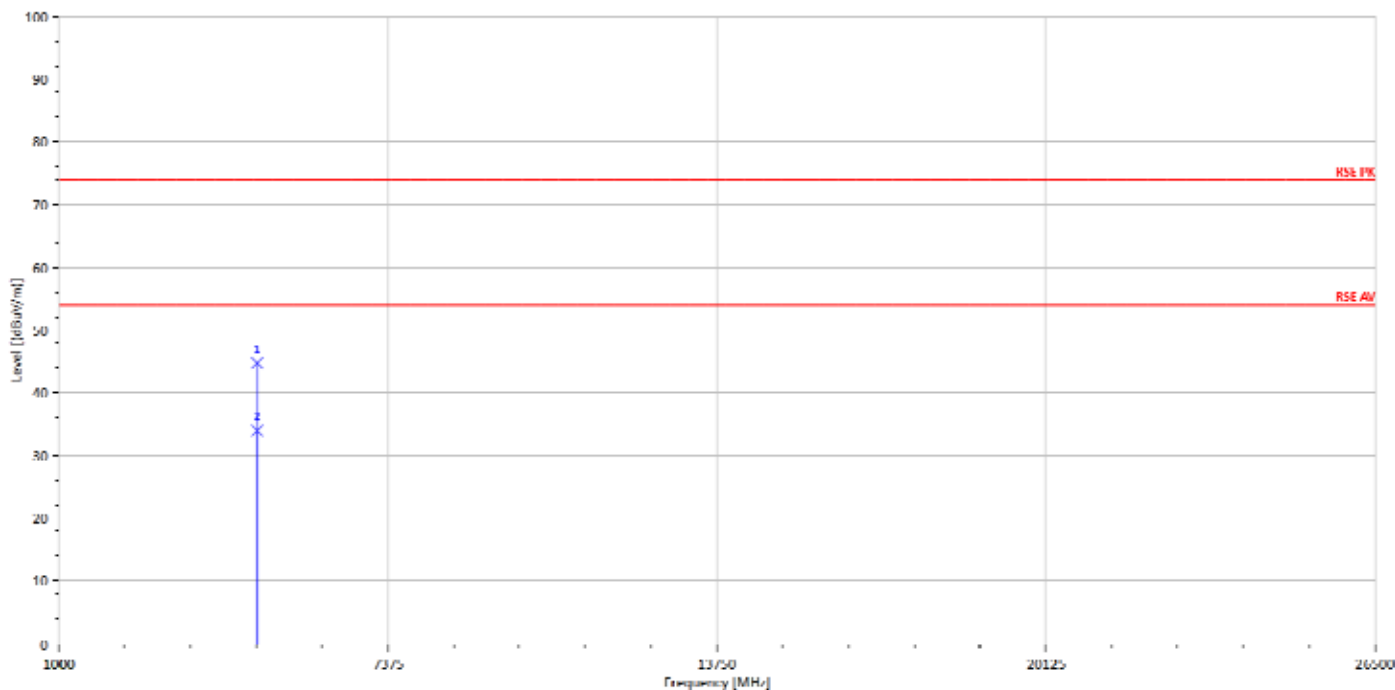
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Operation Mode : 802.11n40 Test Date : 2017/7/26
 Fundamental Frequency : 2422 MHz Temp. / Humi. : 22.7deg_C/57RH
 Operation Band : TX CH Low Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum 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	37.18	7.56	44.74	74	-29.26
4844.00	H	Average	26.40	7.55	33.95	54	-20.05

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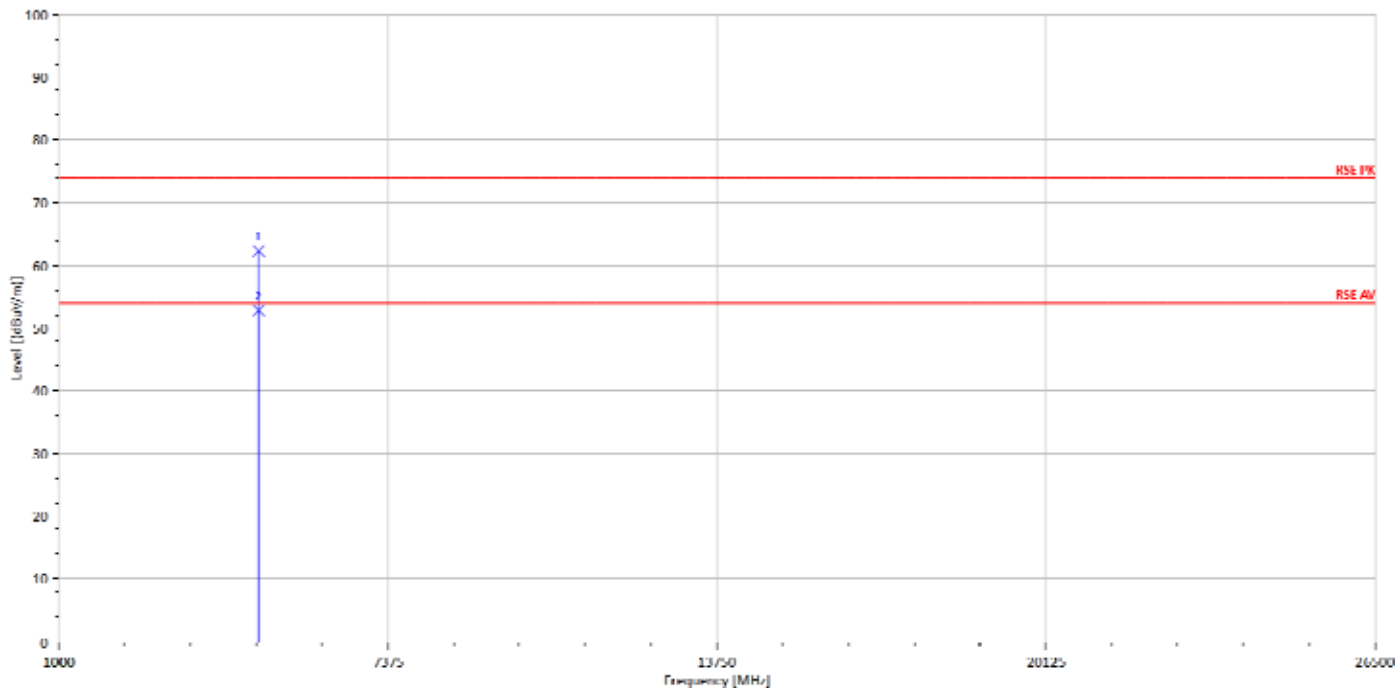
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Operation Mode : 802.11n40 Test Date : 2017/7/26
Fundamental Frequency : 2437 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH Mid Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	H	Peak	54.50	7.86	62.35	74	-11.65
4874.00	H	Average	45.01	7.86	52.87	54	-1.13

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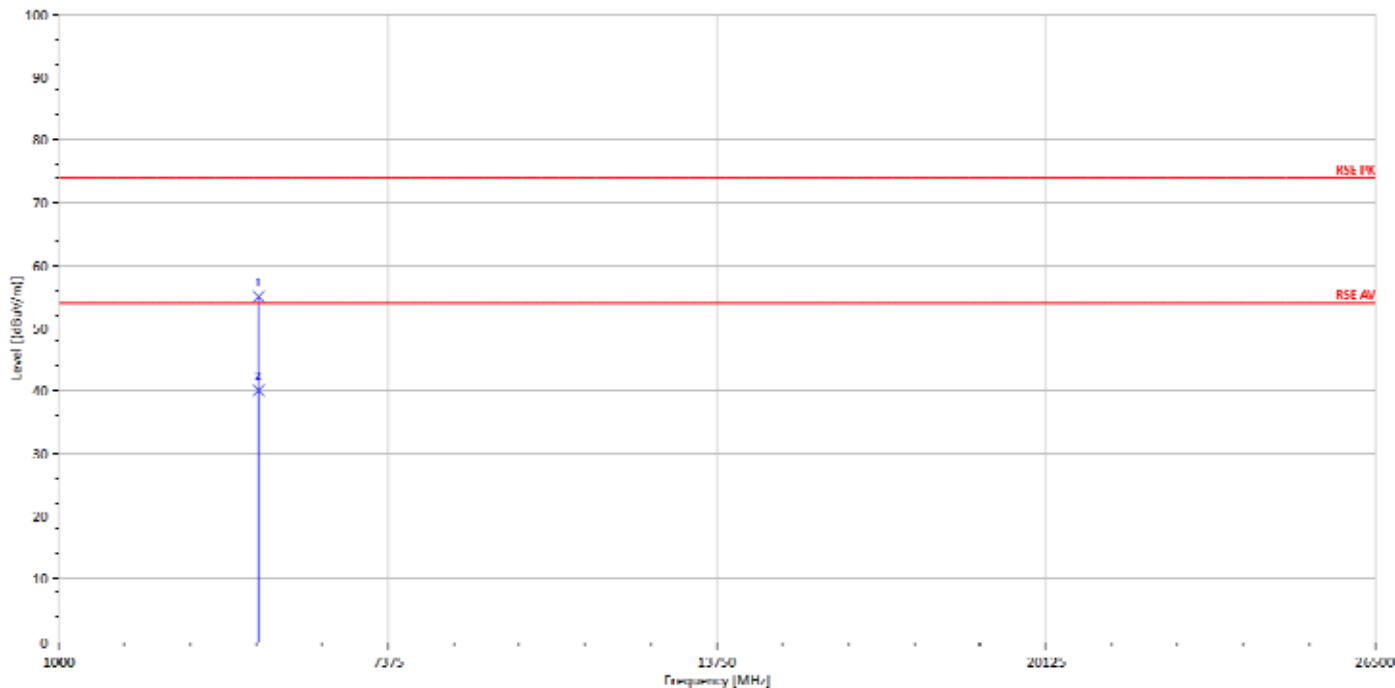
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Operation Band : TX CH Mid Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	H	Peak	47.19	7.86	55.05	74	-18.95
4874.00	H	Average	32.16	7.91	40.07	54	-13.93

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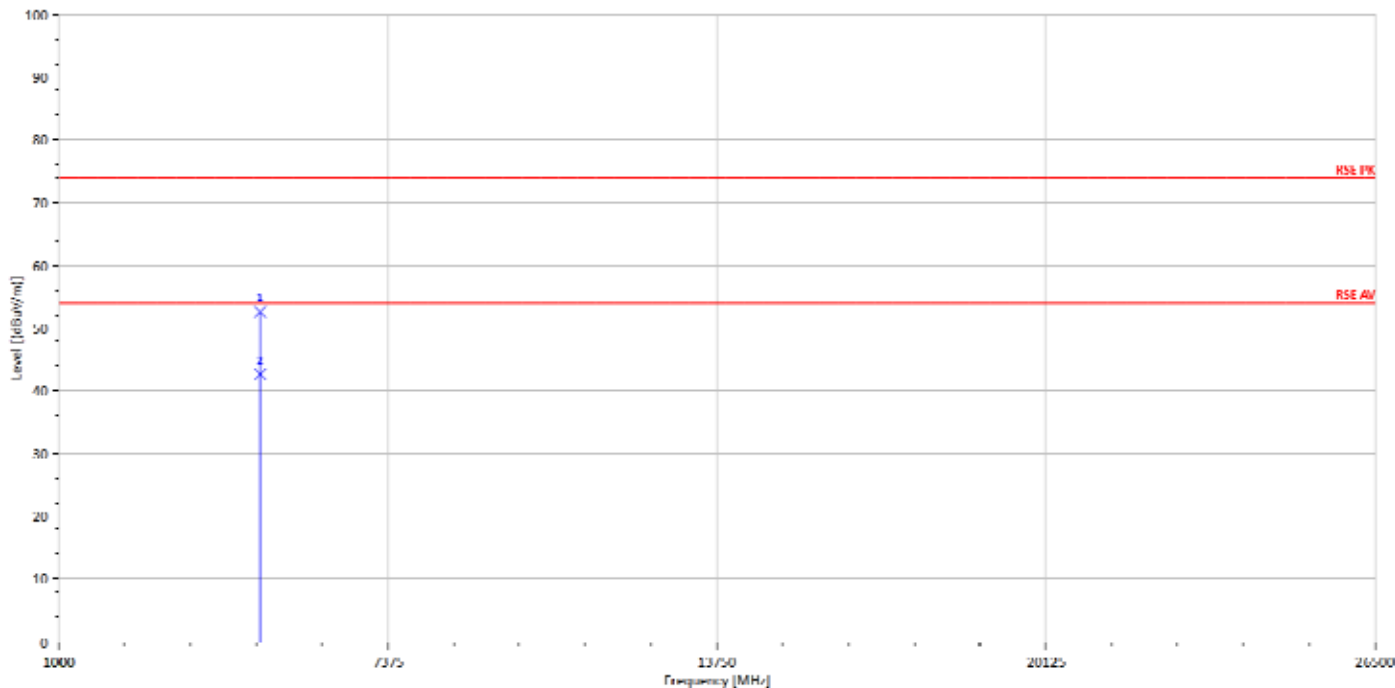
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Operation Mode : 802.11n40 Test Date : 2017/7/26
Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Vertical



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	H	Peak	44.98	7.62	52.61	74	-21.39
4904.00	H	Average	35.20	7.44	42.64	54	-11.36

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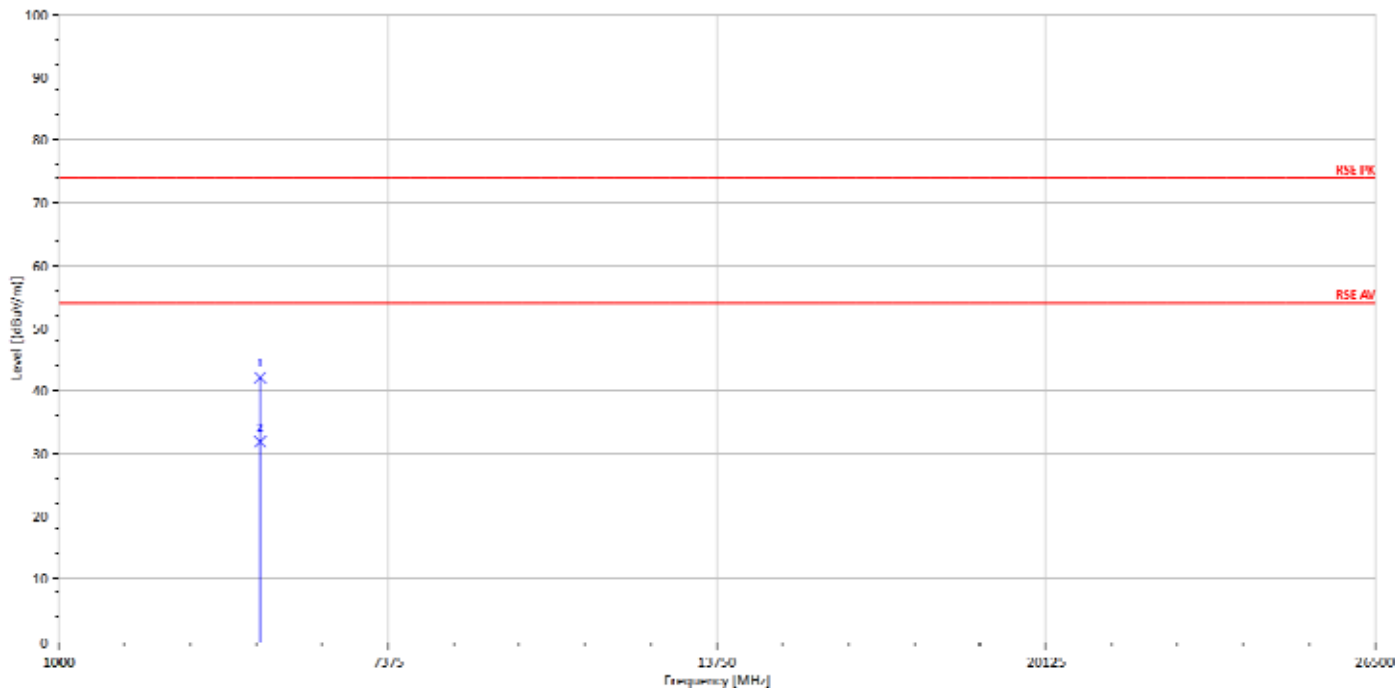
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Fundamental Frequency : 2452 MHz Temp. / Humi. : 22.7deg_C/57RH
Operation Band : TX CH High Test Engineer : Enzo
EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



Freq.	Note	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	F/H/E/S	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	H	Peak	34.63	7.48	42.11	74	-31.89
4904.00	H	Average	24.42	7.44	31.86	54	-22.14

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12 PEAK POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

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.

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.

The antenna gain is not greater than 6 dBi. Therefore, reduction of power is not required.

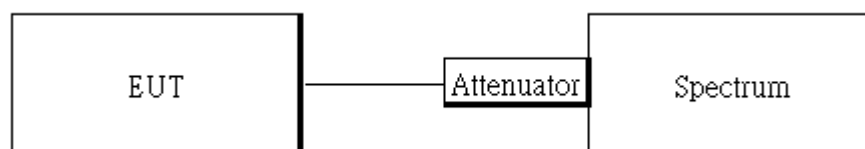
Per RSS-247 section 5.4 d

For DTSSs employing digital modulation techniques operating in the bands 902-928 MHz and 2400-2483.5 MHz, the maximum peak conducted output power shall not exceed 1 W. The e.i.r.p. shall not exceed 4 W, except as provided in section 5.4(e).

12.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	06/20/2018	06/19/2019
Attenuator	Marvelous	MVE2213-10	RF30	12/26/2017	12/25/2018
DC Block	PASTERNAK	PE8210	RF29	12/26/2017	12/25/2018
Notebook	Lenovo	L420	S0011721	N/A	N/A

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 & ANSI C63.10
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.

12.5 Measurement Result

POWER DENSITY 802.11b				POWER DENSITY 802.11g			
Freq. (MHz)	PPSD (dBm/3kHz)	Limit (dBm/3kHz)	Result	Freq. (MHz)	PPSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-9.32	8.00	PASS	2412	-8.73	8.00	PASS
2437	-14.38	8.00	PASS	2437	-8.16	8.00	PASS
2462	-11.07	8.00	PASS	2462	-10.48	8.00	PASS

POWER DENSITY 802.11n HT20				POWER DENSITY 802.11n HT40			
Freq. (MHz)	PPSD (dBm/3kHz)	Limit (dBm/3kHz)	Result	Freq. (MHz)	PPSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-8.14	8.00	PASS	2422	-12.44	8.00	PASS
2437	-6.37	8.00	PASS	2437	-7.27	8.00	PASS
2462	-10.78	8.00	PASS	2452	-13.21	8.00	PASS

offset **10.80** dB for SISO mode

*Refer to next page for plots

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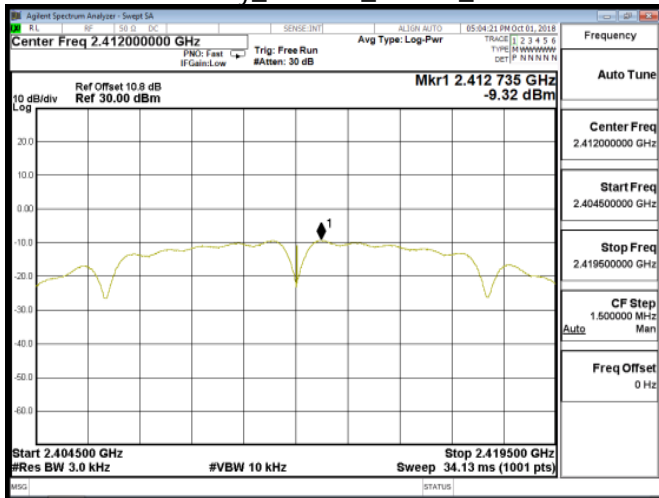
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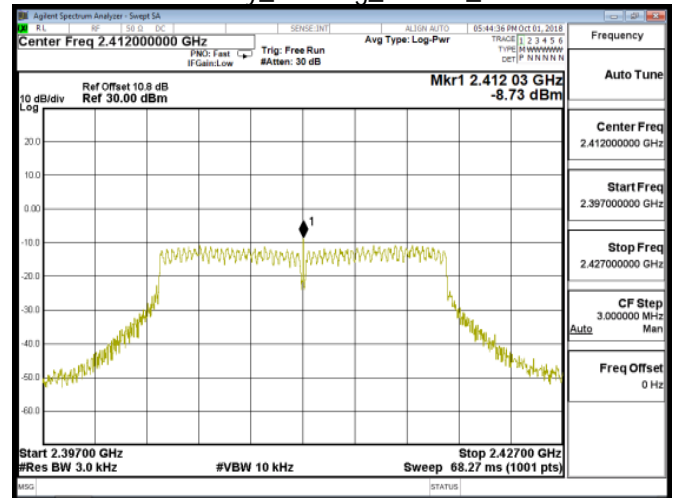
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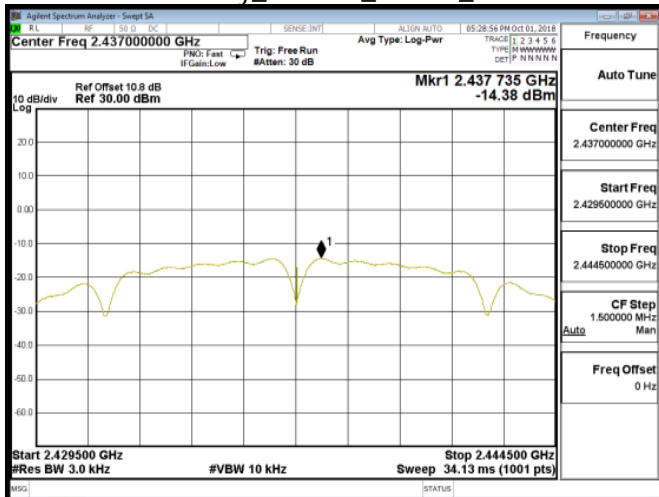
Power Density_802.11b_Chain0_2412MHz



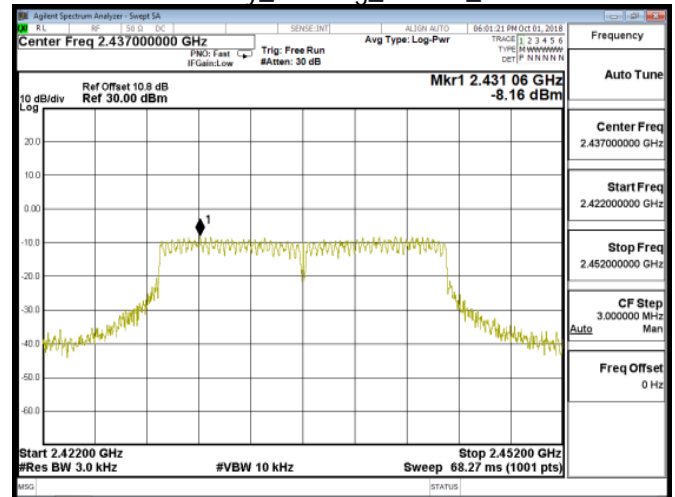
Power Density_802.11g_Chain0_2412MHz



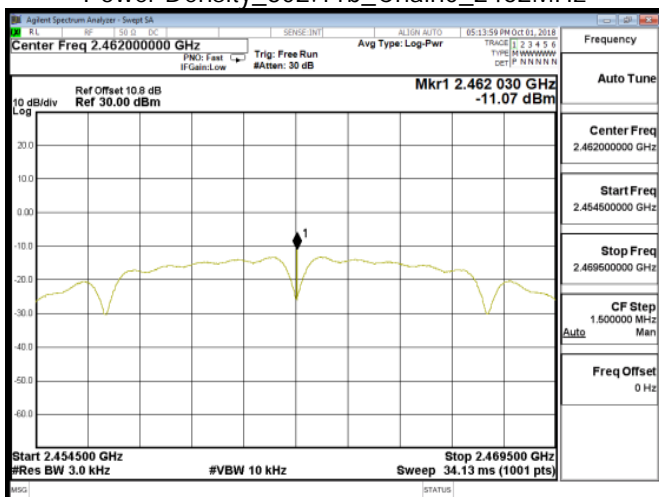
Power Density_802.11b_Chain0_2437MHz



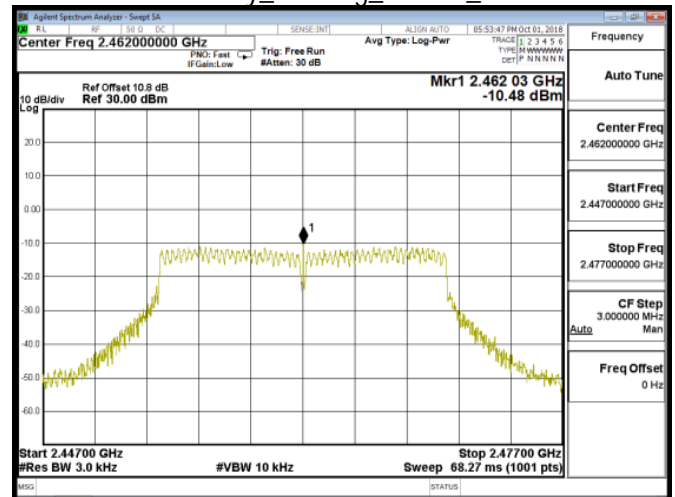
Power Density_802.11g_Chain0_2437MHz



Power Density_802.11b_Chain0_2462MHz



Power Density_802.11g_Chain0_2462MHz

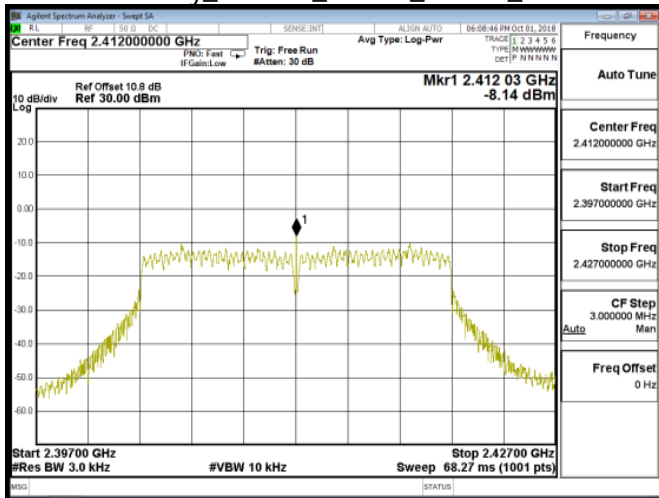


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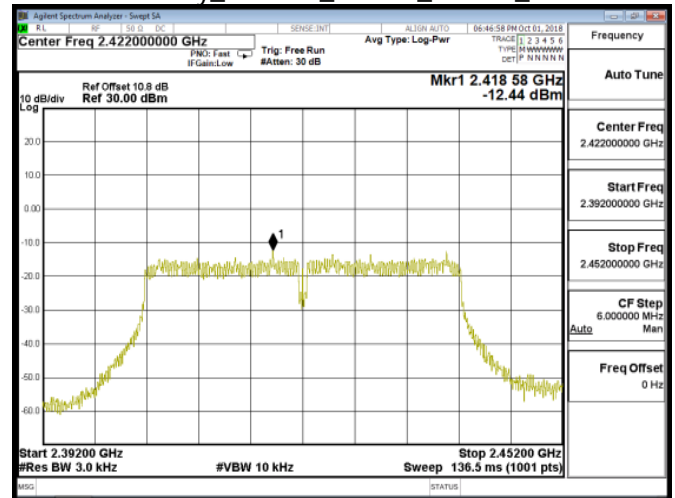
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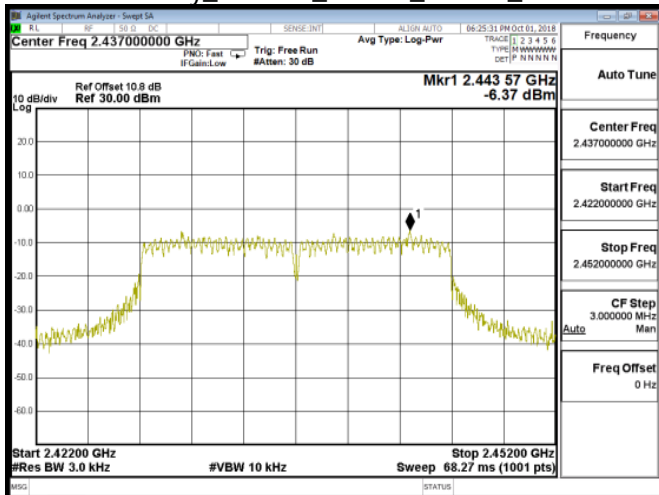
Power Density_802.11n_20MHz_Chain0_2412MHz



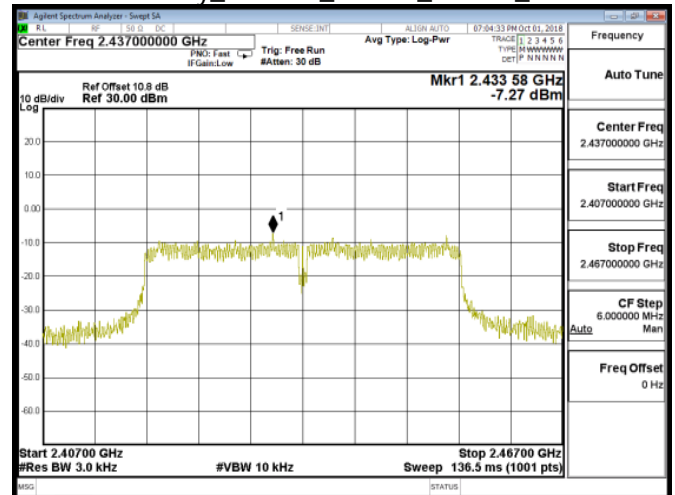
Power Density_802.11n_40MHz_Chain0_2422MHz



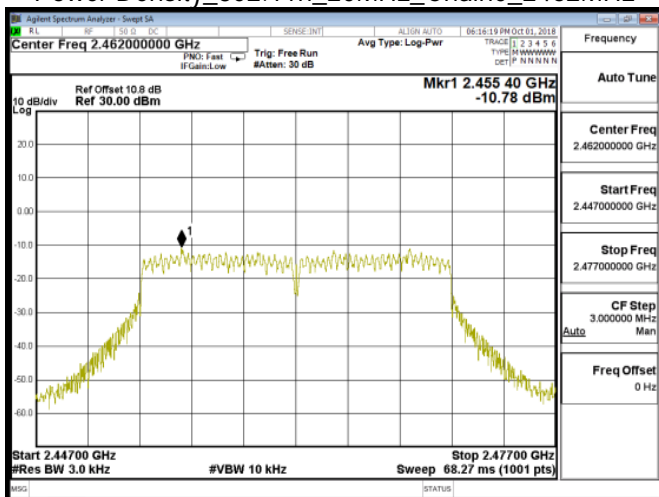
Power Density_802.11n_20MHz_Chain0_2437MHz



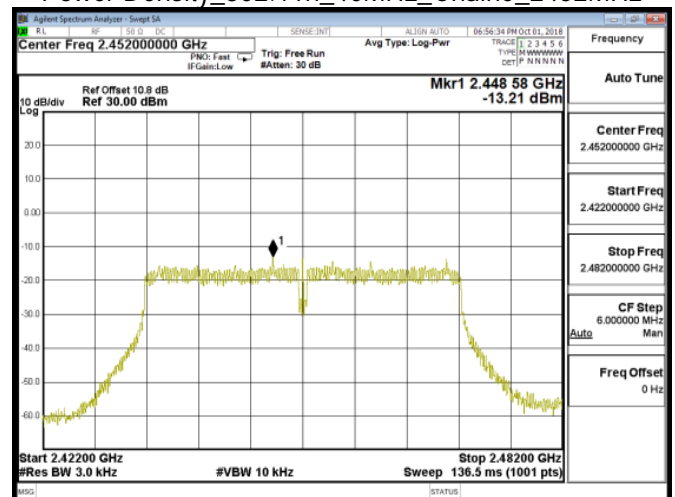
Power Density_802.11n_40MHz_Chain0_2437MHz



Power Density_802.11n_20MHz_Chain0_2462MHz



Power Density_802.11n_40MHz_Chain0_2452MHz



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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

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

~ End of Report ~

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