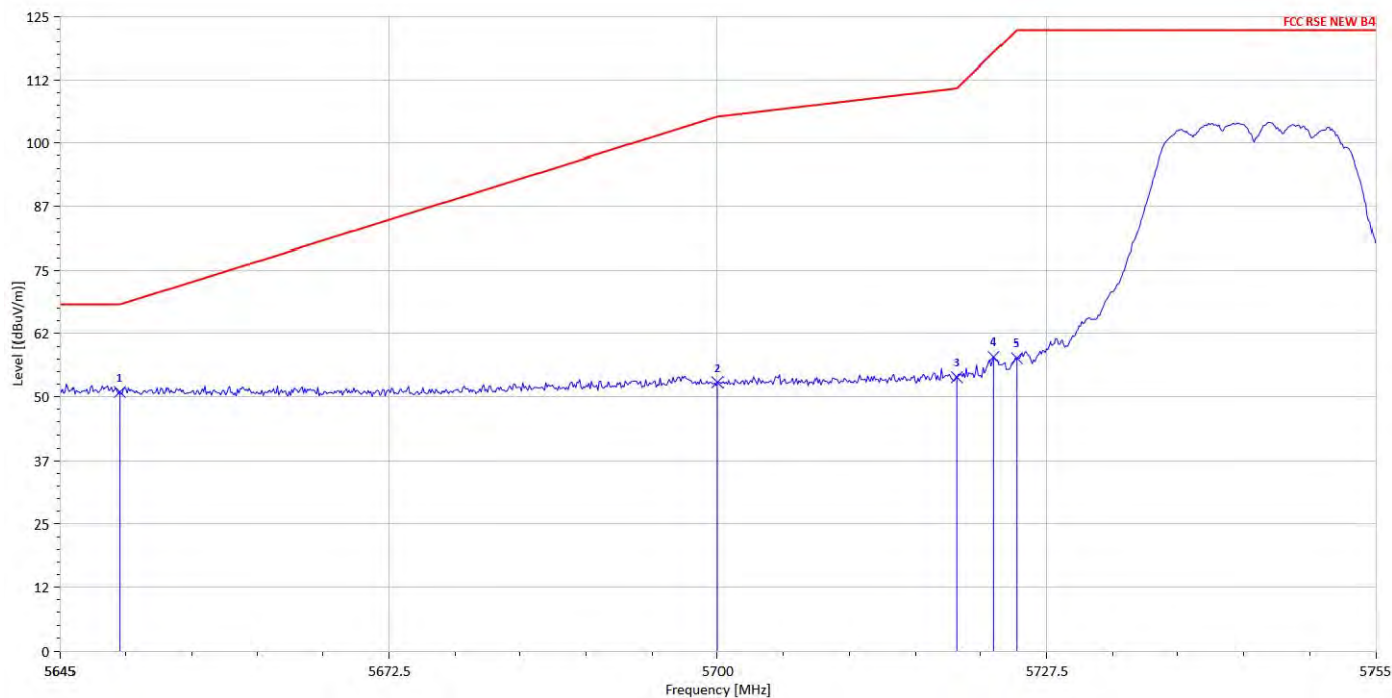


Operation Mode :	802.11aB4	Test Date :	2017/10/20
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5650.00	S	Peak	41.66	9.33	51.00	68.23	-17.23
5700.00	S	Peak	43.48	9.44	52.92	105.23	-52.31
5720.00	S	Peak	44.65	9.28	53.93	110.83	-56.90
5723.10	S	Peak	48.68	9.29	57.97	117.8982	-59.93
5725.00	E	Peak	48.42	9.30	57.72	122.23	-64.51

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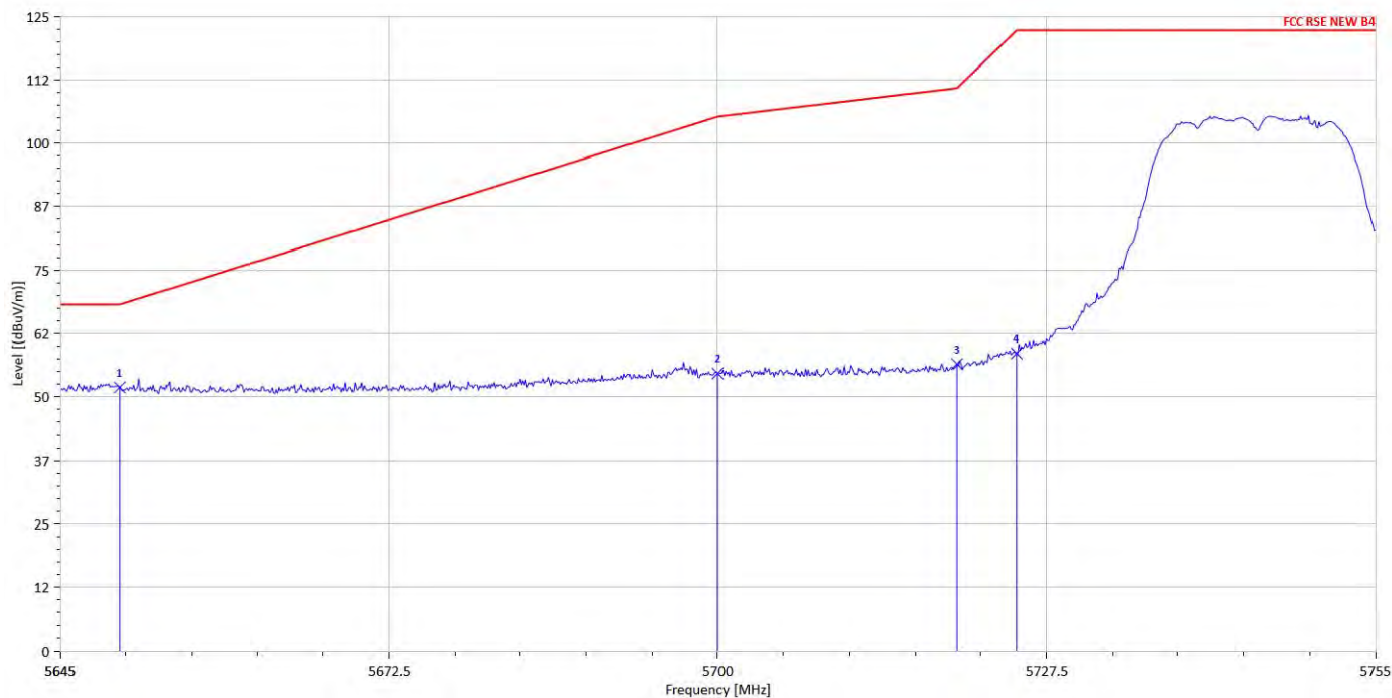
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Operation Mode :	802.11aB4	Test Date :	2017/10/20
Fundamental Frequency :	5745 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5650.00	S	Peak	42.57	9.33	51.90	68.23	-16.33
5700.00	S	Peak	45.22	9.44	54.66	105.23	-50.57
5720.00	S	Peak	47.23	9.28	56.51	110.83	-54.32
5725.00	E	Peak	49.32	9.30	58.62	122.23	-63.61

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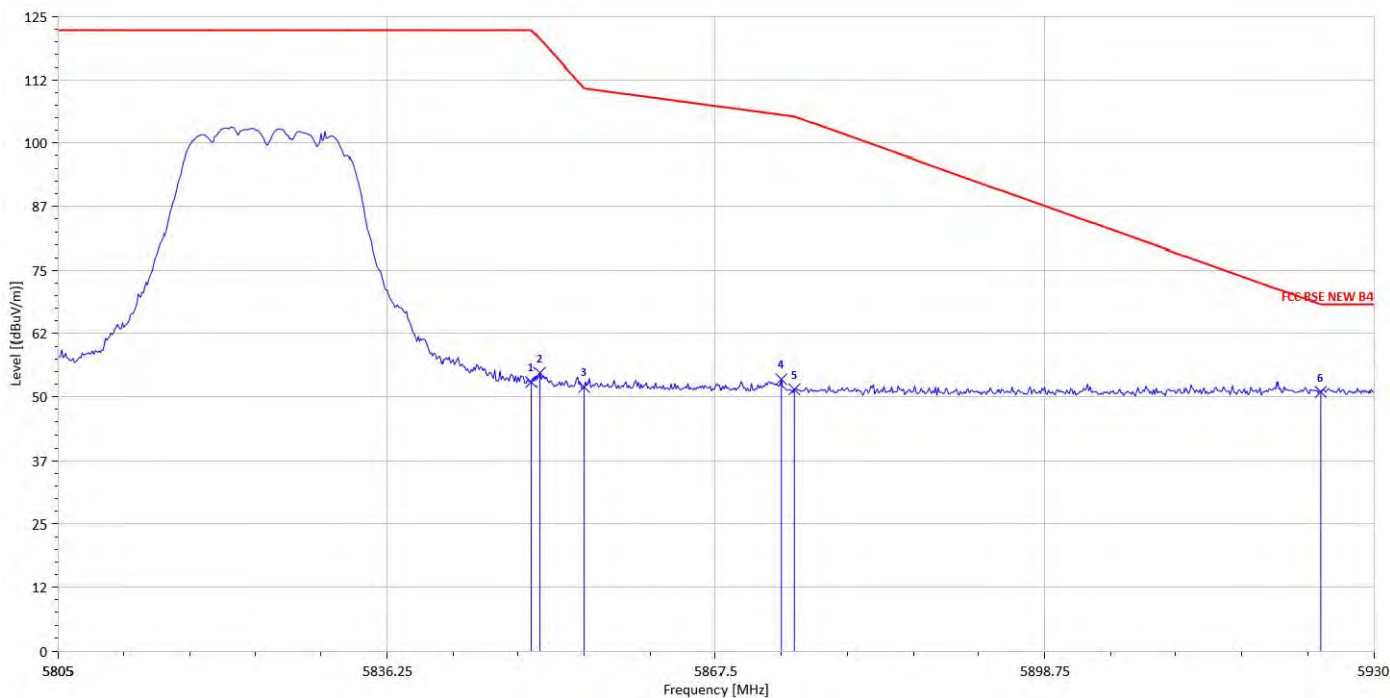
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Operation Mode : 802.11aB4 Test Date : 2017/10/20
 Fundamental Frequency : 5825 MHz Temp. / Humi. : 24.5deg_C/70RH
 Operation Band : BE CH HIGH Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5850.00	E	Peak	43.47	9.49	52.96	122.23	-69.27
5850.75	S	Peak	45.31	9.50	54.81	120.52	-65.71
5855.00	S	Peak	42.41	9.58	51.99	110.83	-58.84
5873.75	S	Peak	43.88	9.64	53.52	105.58	-52.06
5875.00	S	Peak	41.88	9.63	51.52	105.23	-53.71
5925.00	S	Peak	41.00	10.01	51.01	68.23	-17.22

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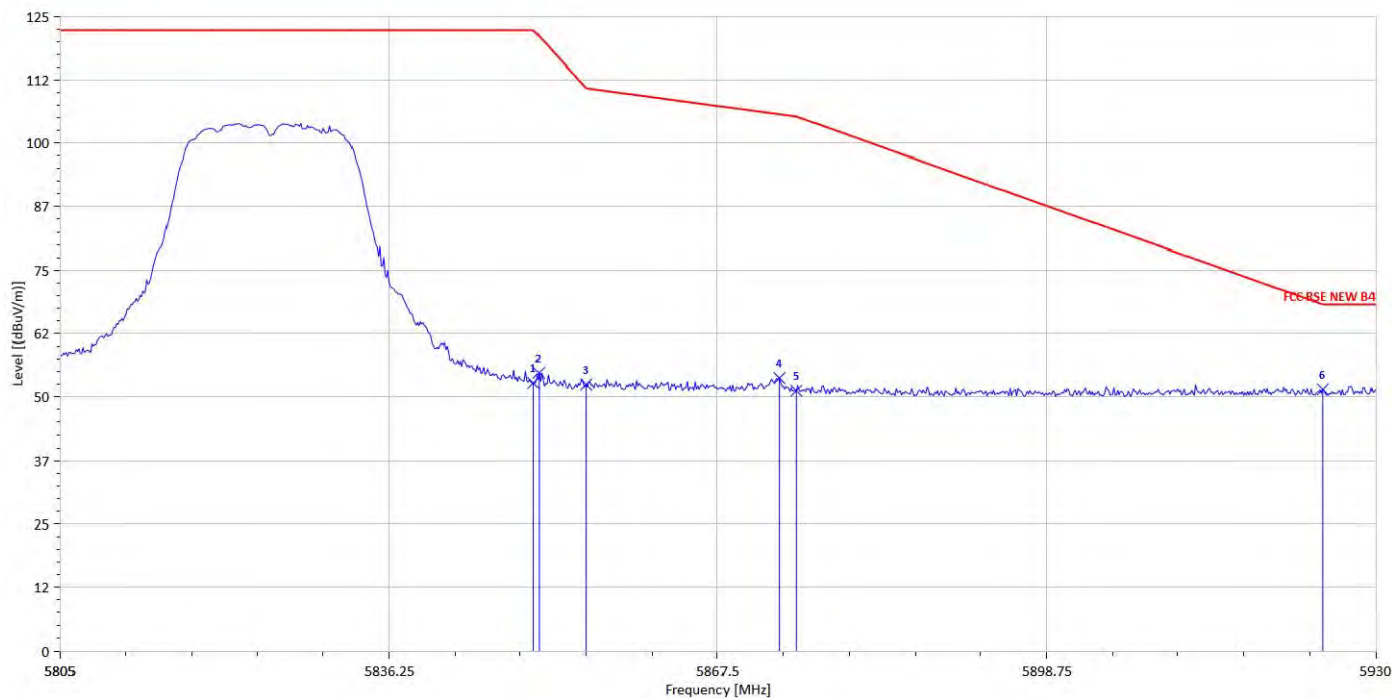
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Operation Mode :	802.11aB4	Test Date :	2017/10/21
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5850.00	E	Peak	43.28	9.49	52.77	122.23	-69.46
5850.50	S	Peak	45.30	9.50	54.80	121.09	-66.29
5855.00	S	Peak	42.89	9.58	52.47	110.83	-58.36
5873.38	S	Peak	44.11	9.64	53.76	105.685	-51.93
5875.00	S	Peak	41.61	9.63	51.24	105.23	-53.99
5925.00	S	Peak	41.50	10.01	51.51	68.23	-16.72

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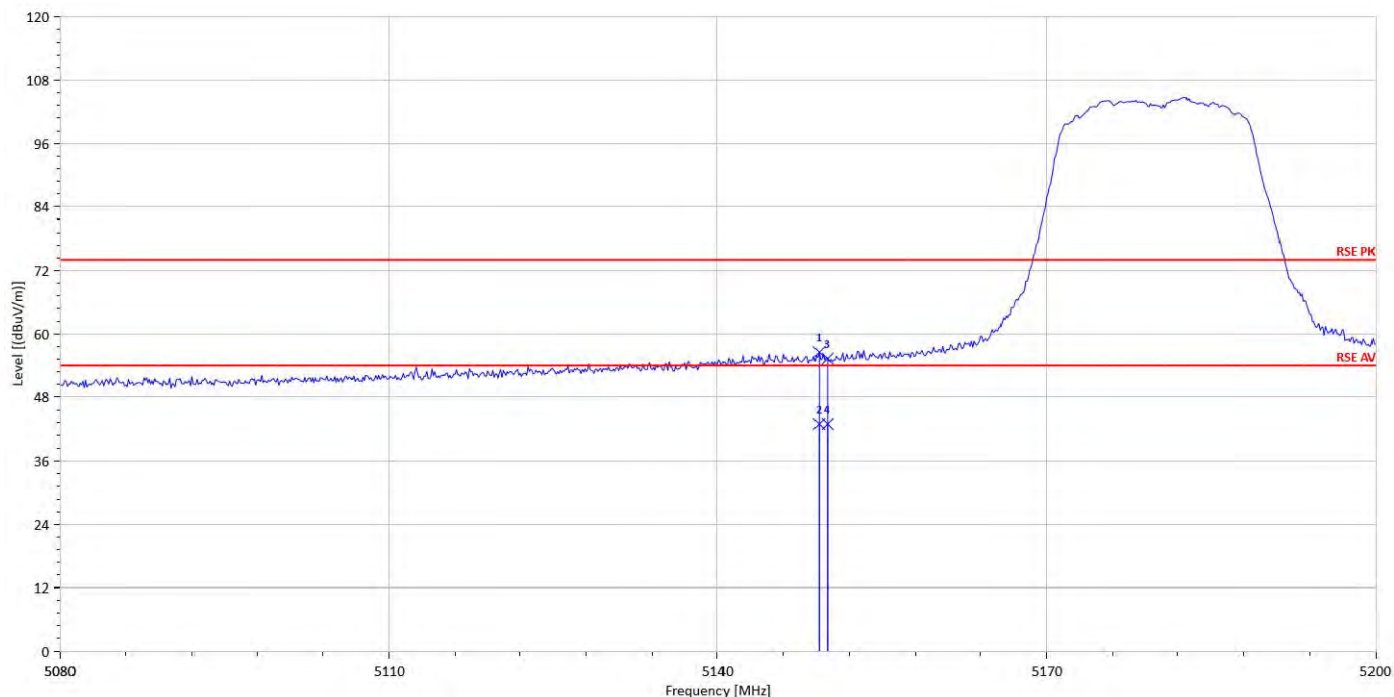
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802.11n20 HT mode

Operation Mode :	802.11n20B1	Test Date :	2017/10/21
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	24.5deg_C/70RH
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 dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5149.24	S	Peak	48.38	8.19	56.56	74	-17.44
5149.24	S	Average	34.81	8.19	43.00	54	-11.00
5150.00	E	Peak	47.13	8.19	55.32	74	-18.68
5150.00	E	Average	34.81	8.19	43.00	54	-11.00

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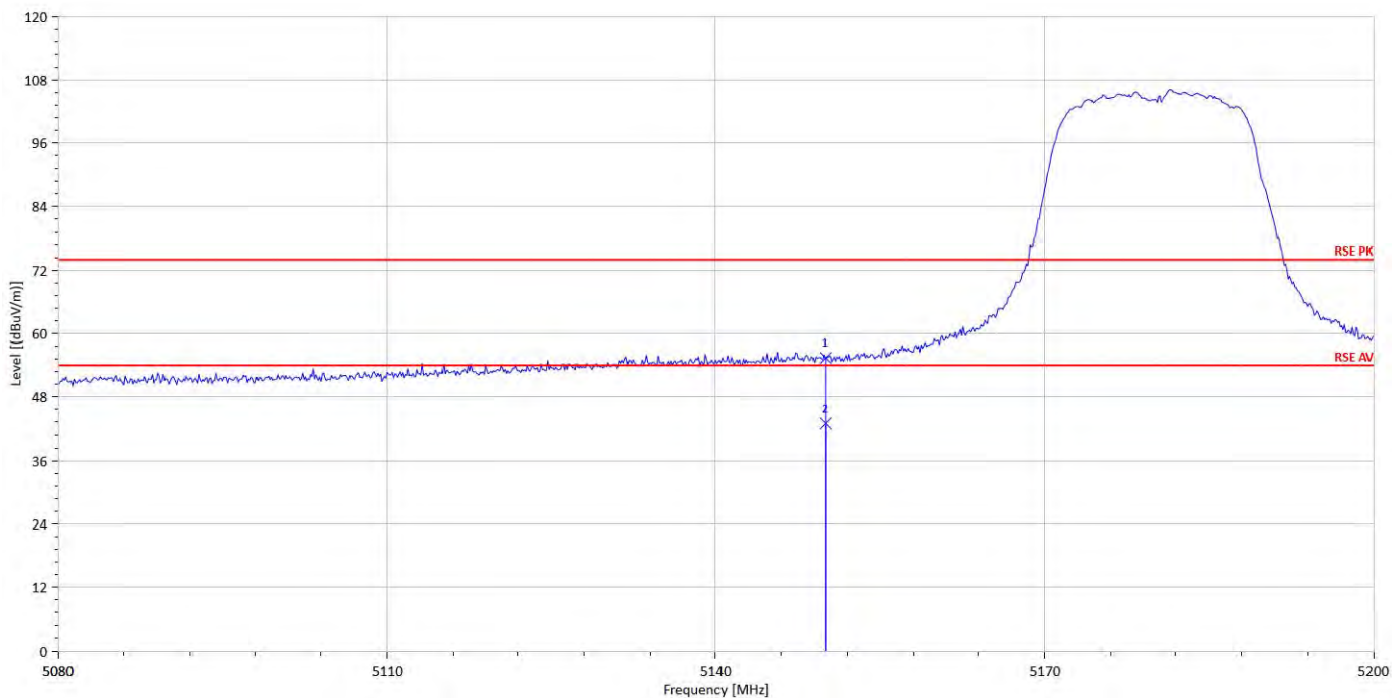
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Operation Mode :	802.11n20B1	Test Date :	2017/10/21
Fundamental Frequency :	5180 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5150.00	E	Peak	47.22	8.19	55.41	74	-18.59
5150.00	E	Average	34.77	8.19	42.96	54	-11.04

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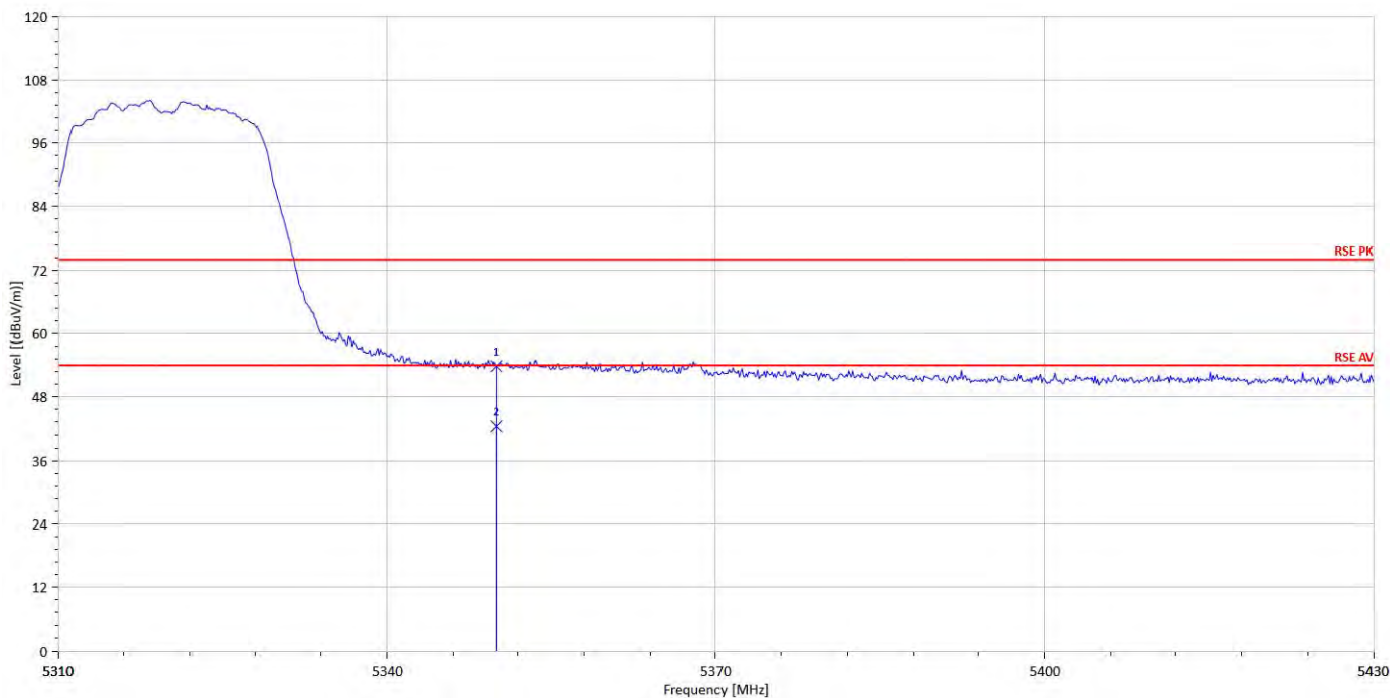
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Operation Mode :	802.11n20B2	Test Date :	2017/10/21
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5350.00	E	Peak	44.90	8.96	53.86	74	-20.14
5350.00	E	Average	33.44	8.96	42.40	54	-11.60

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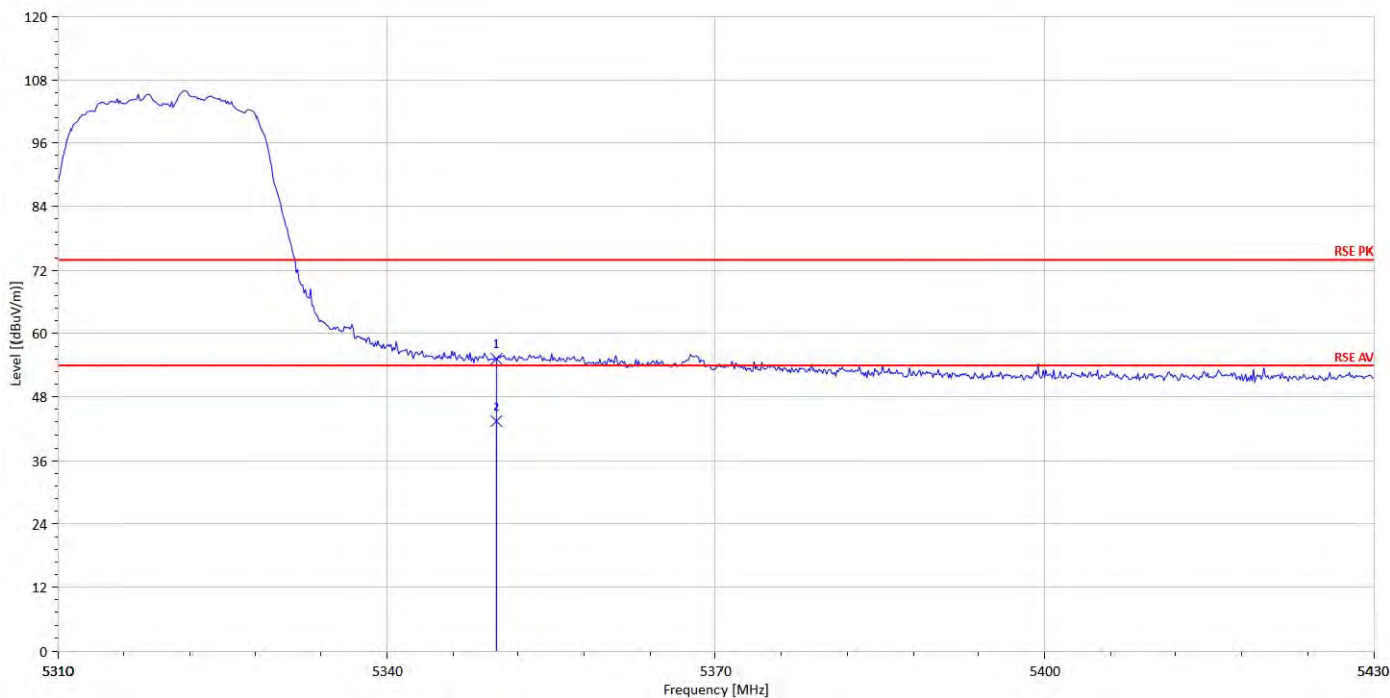
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Operation Mode :	802.11n20B2	Test Date :	2017/10/21
Fundamental Frequency :	5320 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5350.00	E	Peak	46.32	8.96	55.28	74	-18.72
5350.00	E	Average	34.41	8.96	43.37	54	-10.63

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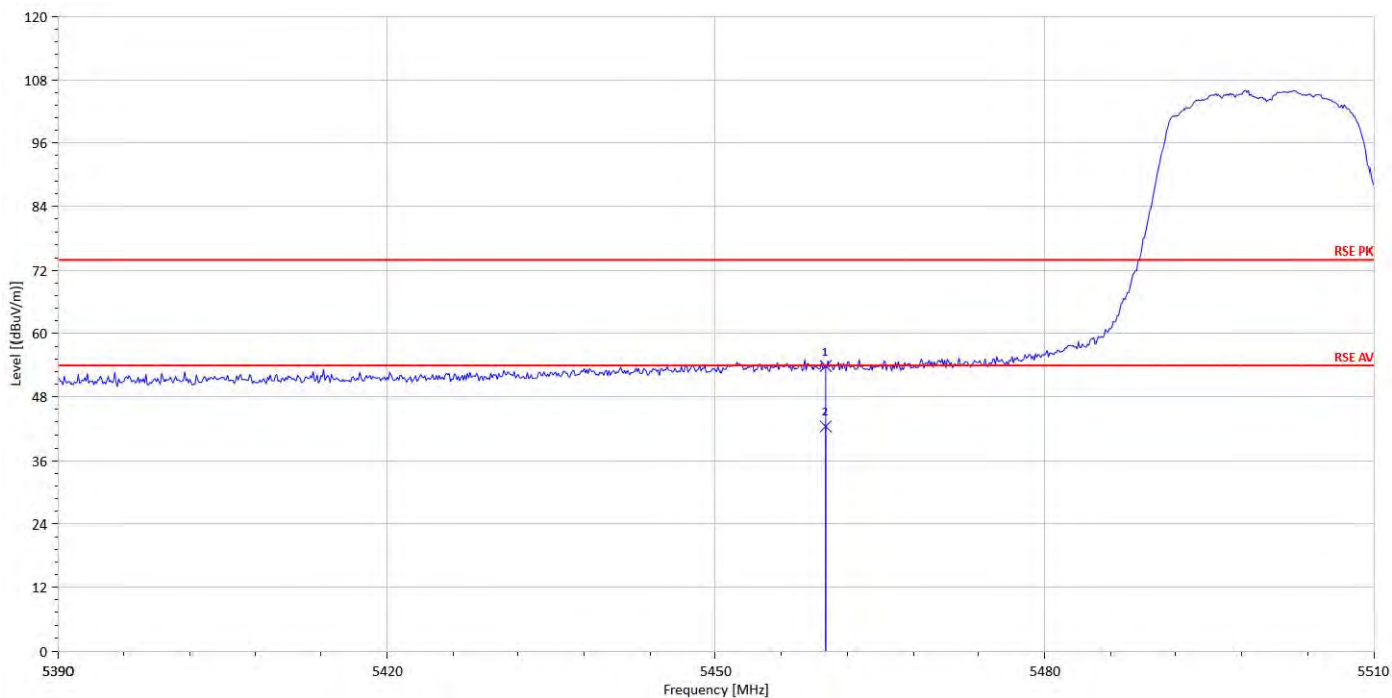
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Operation Mode :	802.11n20B3	Test Date :	2017/10/21
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5460.00	E	Peak	45.03	8.88	53.91	74	-20.09
5460.00	E	Average	33.48	8.88	42.36	54	-11.64

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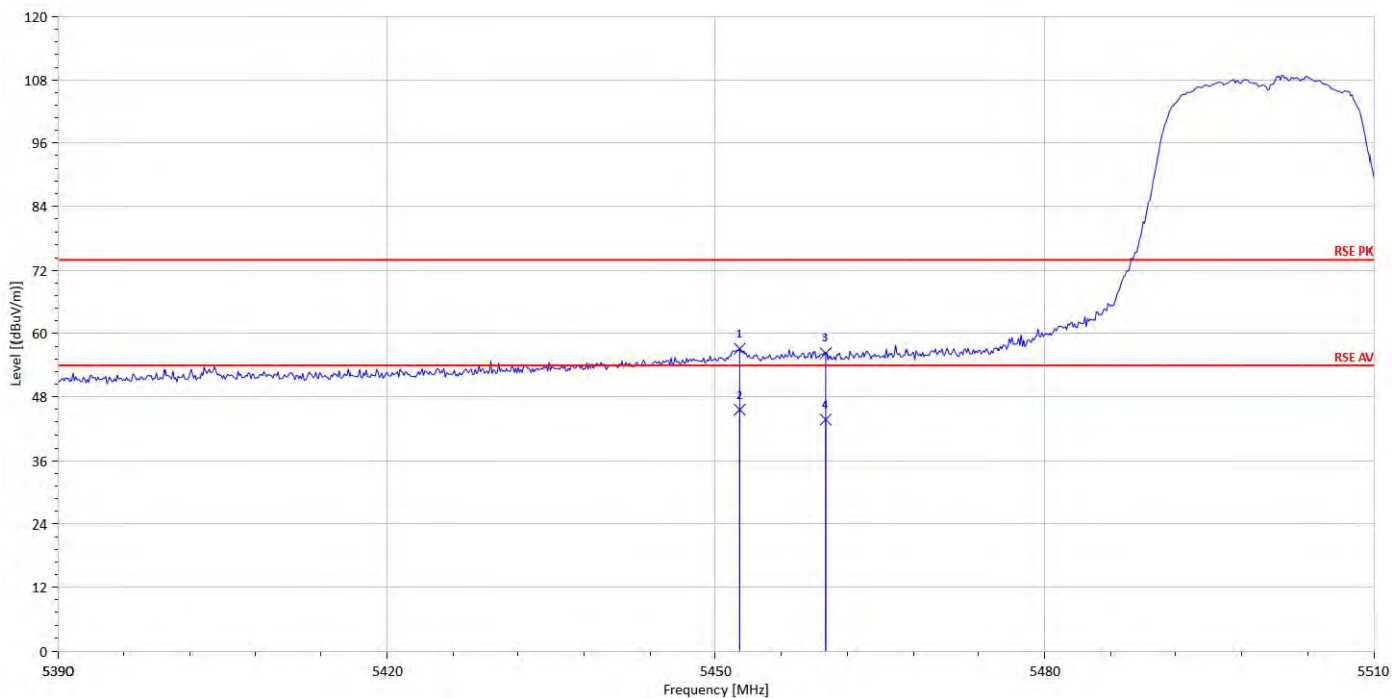
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Operation Mode :	802.11n20B3	Test Date :	2017/10/21
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5452.16	S	Peak	48.25	8.97	57.21	74	-16.79
5452.16	S	Average	36.62	8.97	45.59	54	-8.41
5460.00	E	Peak	47.47	8.88	56.36	74	-17.64
5460.00	E	Average	34.79	8.88	43.67	54	-10.33

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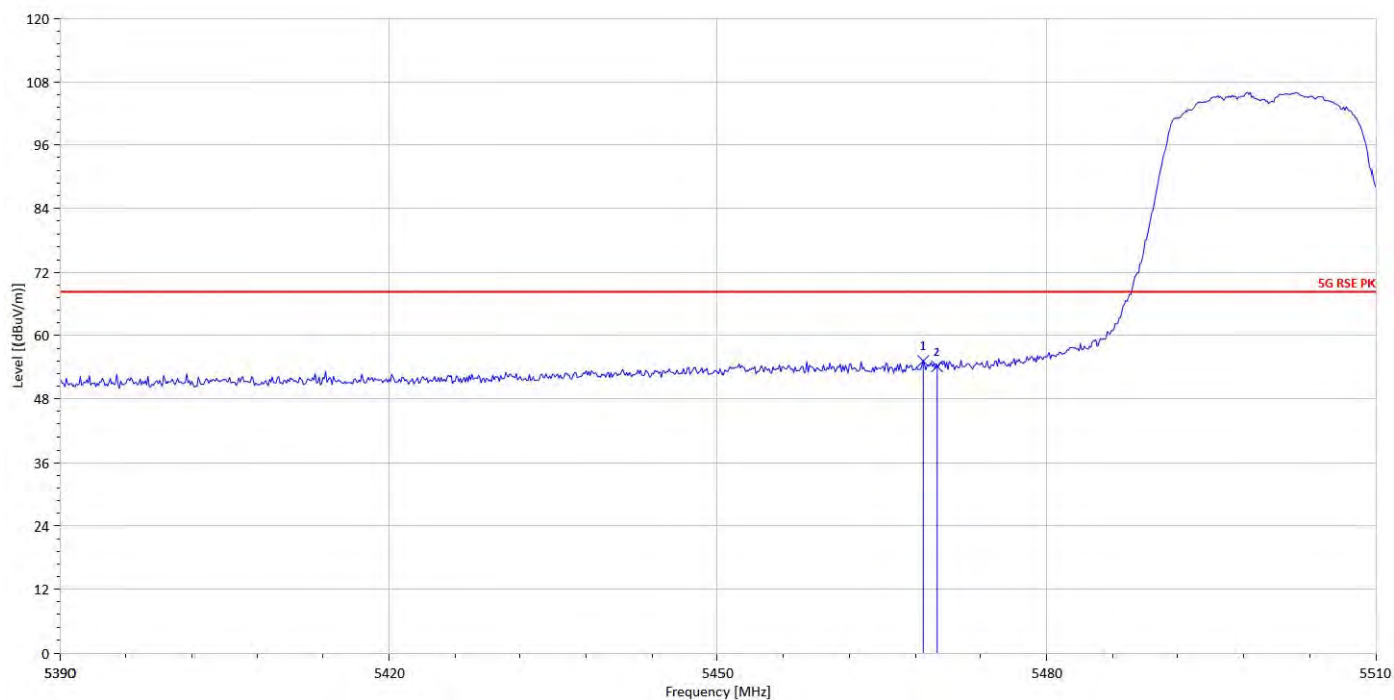
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Operation Mode : 802.11n20B3
 Fundamental Frequency : 5500 MHz
 Operation Band : BE CH LOW RSE
 EUT Pol. : E2

Test Date : 2017/10/21
 Temp. / Humi. : 24.5deg_C/70RH
 Test Engineer : Enzo
 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
5468.72	S	Peak	46.46	8.80	55.26	68.3	-13.04
5470.00	E	Peak	45.45	8.79	54.24	68.3	-14.06

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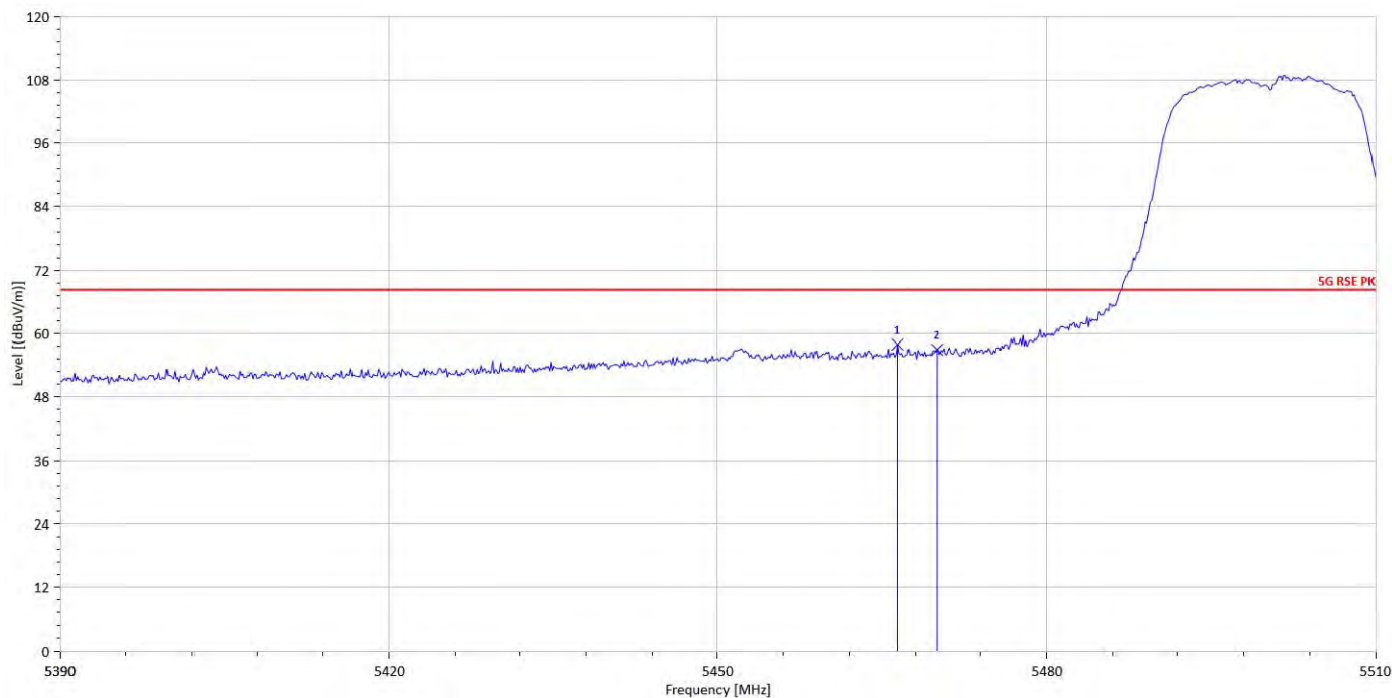
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Operation Mode :	802.11n20B3	Test Date :	2017/10/21
Fundamental Frequency :	5500 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5466.44	S	Peak	49.12	8.82	57.94	68.3	-10.36
5470.00	E	Peak	48.17	8.79	56.96	68.3	-11.34

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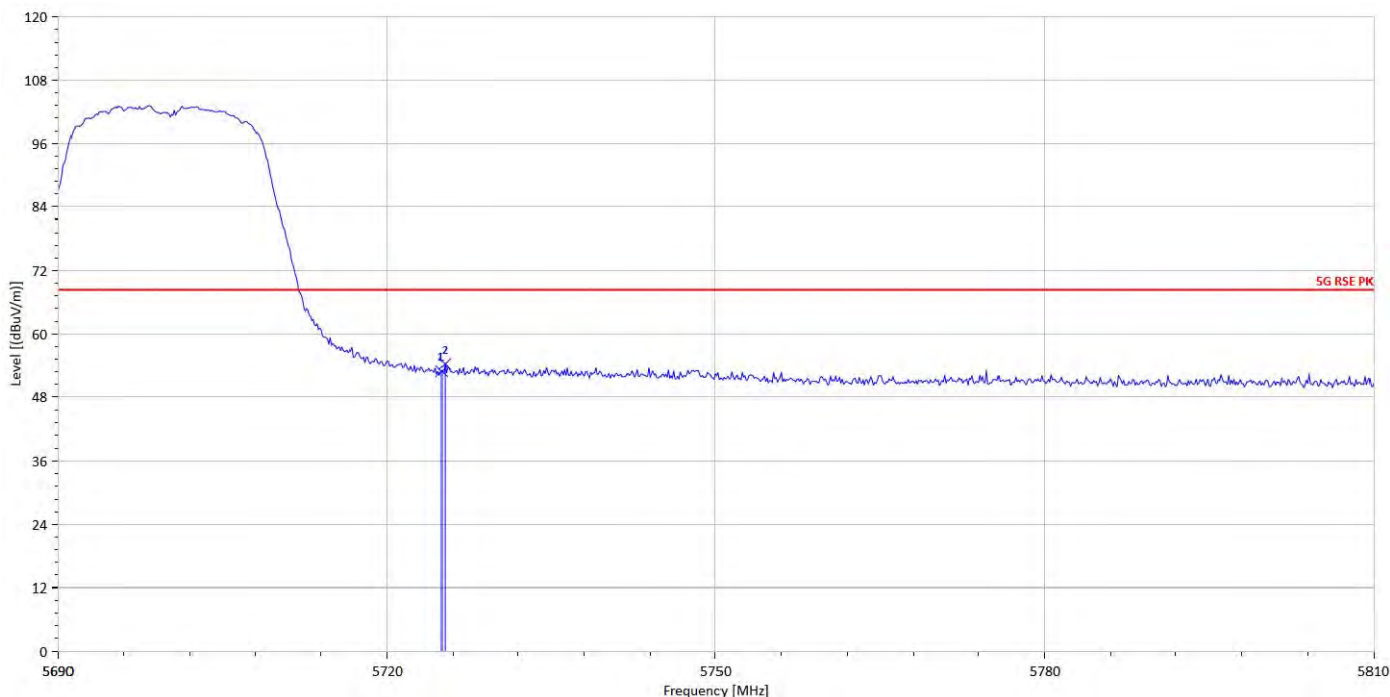
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Operation Mode :	802.11n20B3	Test Date :	2017/10/21
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5725.00	E	Peak	43.63	9.30	52.93	68.3	-15.37
5725.28	S	Peak	45.00	9.30	54.30	68.3	-14.00

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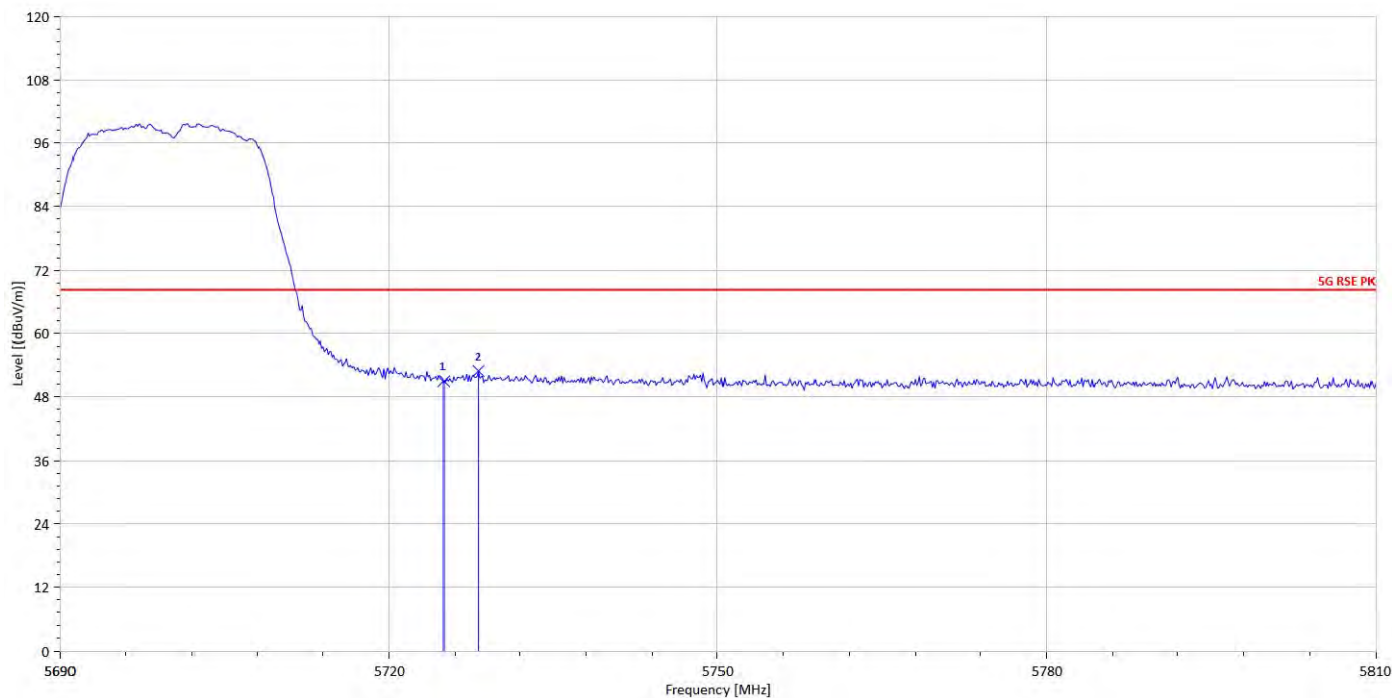
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Operation Mode :	802.11n20B3	Test Date :	2017/10/21
Fundamental Frequency :	5700 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5725.00	E	Peak	41.70	9.30	51.00	68.3	-17.30
5728.16	S	Peak	43.65	9.30	52.95	68.3	-15.35

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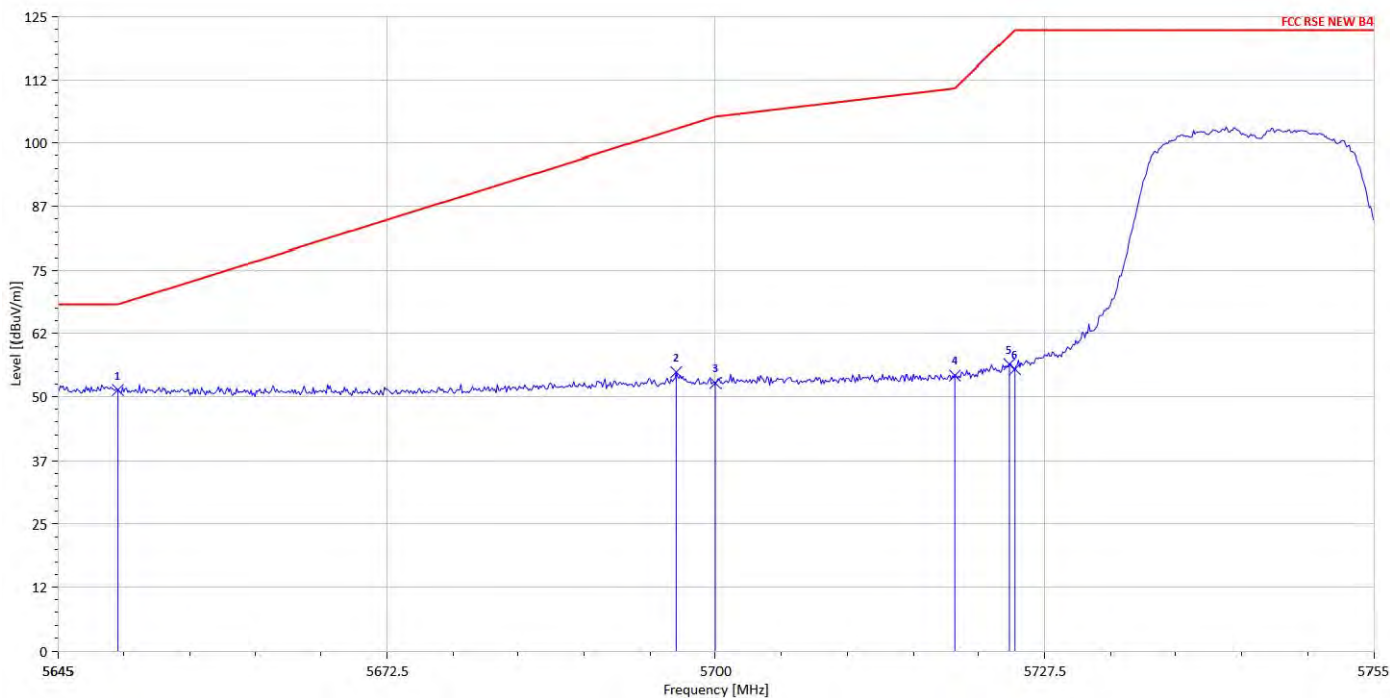
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Operation Mode : 802.11n20B4 Test Date : 2017/10/21
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 24.5deg_C/70RH
 Operation Band : BE CH LOW Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5650.00	S	Peak	42.06	9.33	51.40	68.23	-16.83
5696.70	S	Peak	45.43	9.51	54.94	102.7881	-47.84
5700.00	S	Peak	43.33	9.44	52.77	105.23	-52.46
5720.00	S	Peak	45.00	9.28	54.28	110.83	-56.55
5724.53	S	Peak	47.23	9.30	56.53	121.1579	-64.63
5725.00	E	Peak	46.24	9.30	55.54	122.23	-66.69

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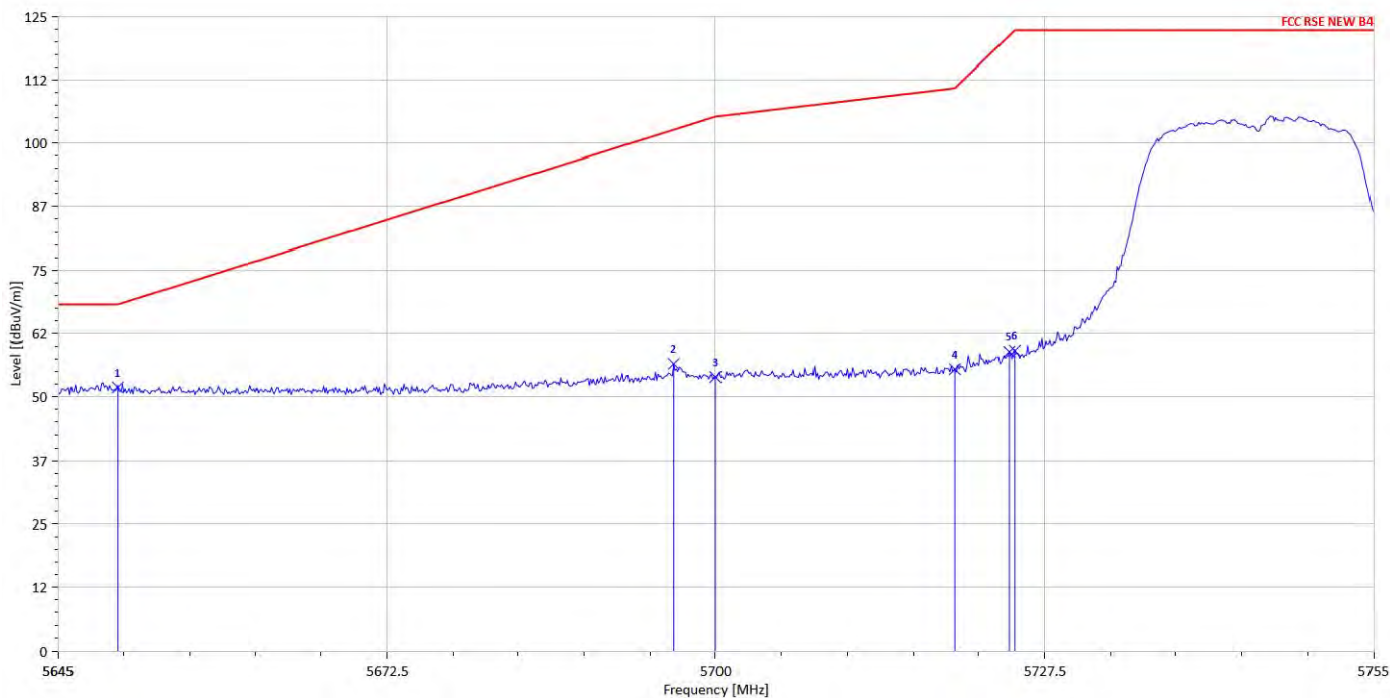
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Operation Mode : 802.11n20B4 Test Date : 2017/10/21
 Fundamental Frequency : 5745 MHz Temp. / Humi. : 24.5deg_C/70RH
 Operation Band : BE CH LOW Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Horizontal



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
5650.00	S	Peak	42.56	9.33	51.89	68.23	-16.34
5696.48	S	Peak	47.05	9.52	56.57	102.6252	-46.05
5700.00	S	Peak	44.52	9.44	53.96	105.23	-51.27
5720.00	S	Peak	46.25	9.28	55.53	110.83	-55.30
5724.53	S	Peak	49.66	9.30	58.96	121.1579	-62.20
5725.00	E	Peak	49.89	9.30	59.19	122.23	-63.04

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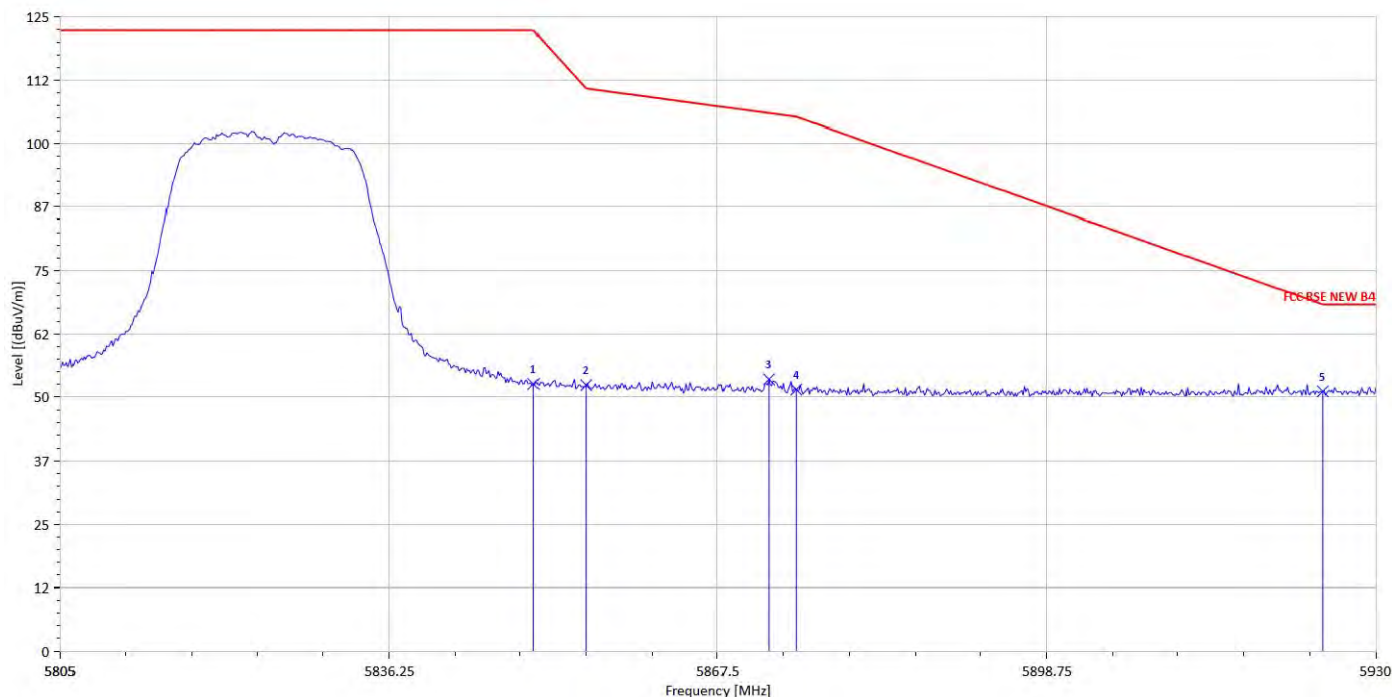
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Operation Mode :	802.11n20B4	Test Date :	2017/10/21
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5850.00	E	Peak	43.10	9.49	52.58	122.23	-69.65
5855.00	S	Peak	42.78	9.58	52.36	110.83	-58.47
5872.38	S	Peak	43.86	9.65	53.51	105.965	-52.46
5875.00	S	Peak	41.83	9.63	51.47	105.23	-53.76
5925.00	S	Peak	41.11	10.01	51.12	68.23	-17.11

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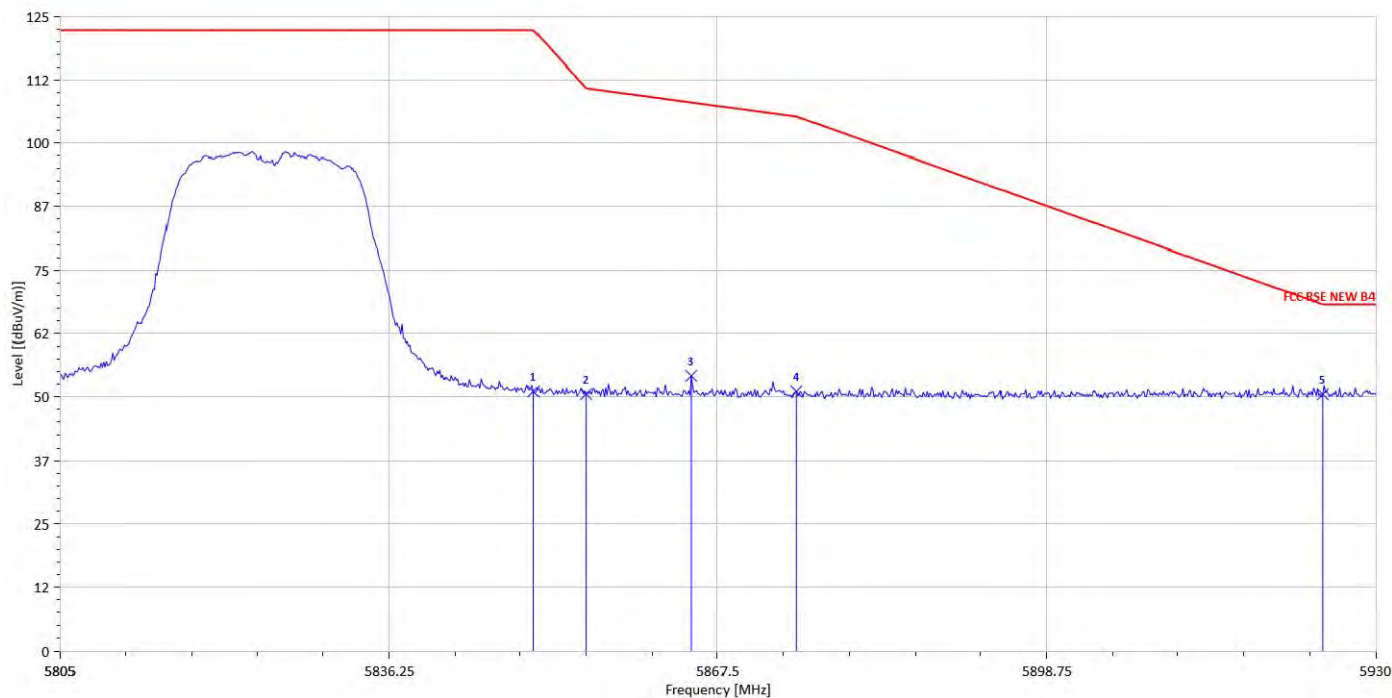
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Operation Mode :	802.11n20B4	Test Date :	2017/10/21
Fundamental Frequency :	5825 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5850.00	E	Peak	41.59	9.49	51.08	122.23	-71.15
5855.00	S	Peak	40.99	9.58	50.57	110.83	-60.26
5865.00	S	Peak	44.50	9.69	54.19	108.03	-53.84
5875.00	S	Peak	41.48	9.63	51.11	105.23	-54.12
5925.00	S	Peak	40.54	10.01	50.56	68.23	-17.67

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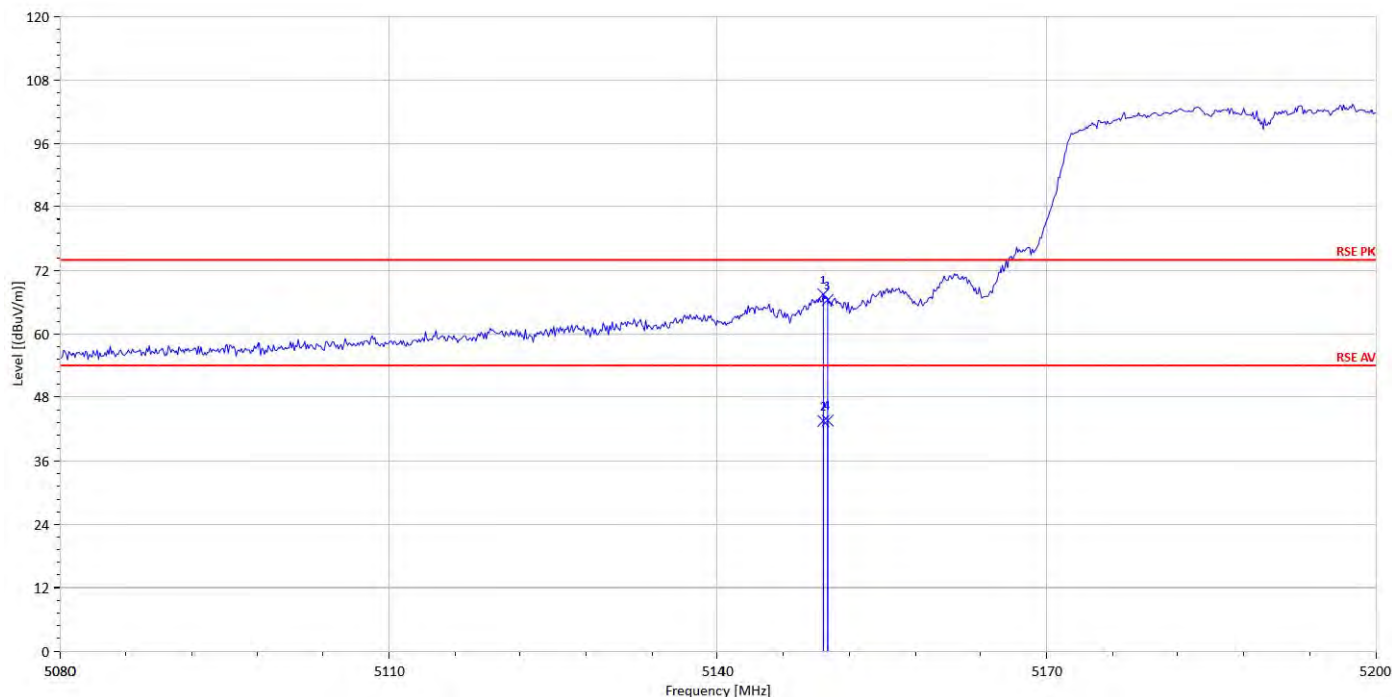
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802.11n40 HT mode

Operation Mode :	802.11n40B1	Test Date :	2017/10/21
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	24.5deg_C/70RH
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
5149.60	S	Peak	59.25	8.19	67.44	74	-6.56
5149.60	S	Average	35.41	8.19	43.60	54	-10.40
5150.00	E	Peak	58.18	8.19	66.37	74	-7.63
5150.00	E	Average	35.48	8.19	43.67	54	-10.33

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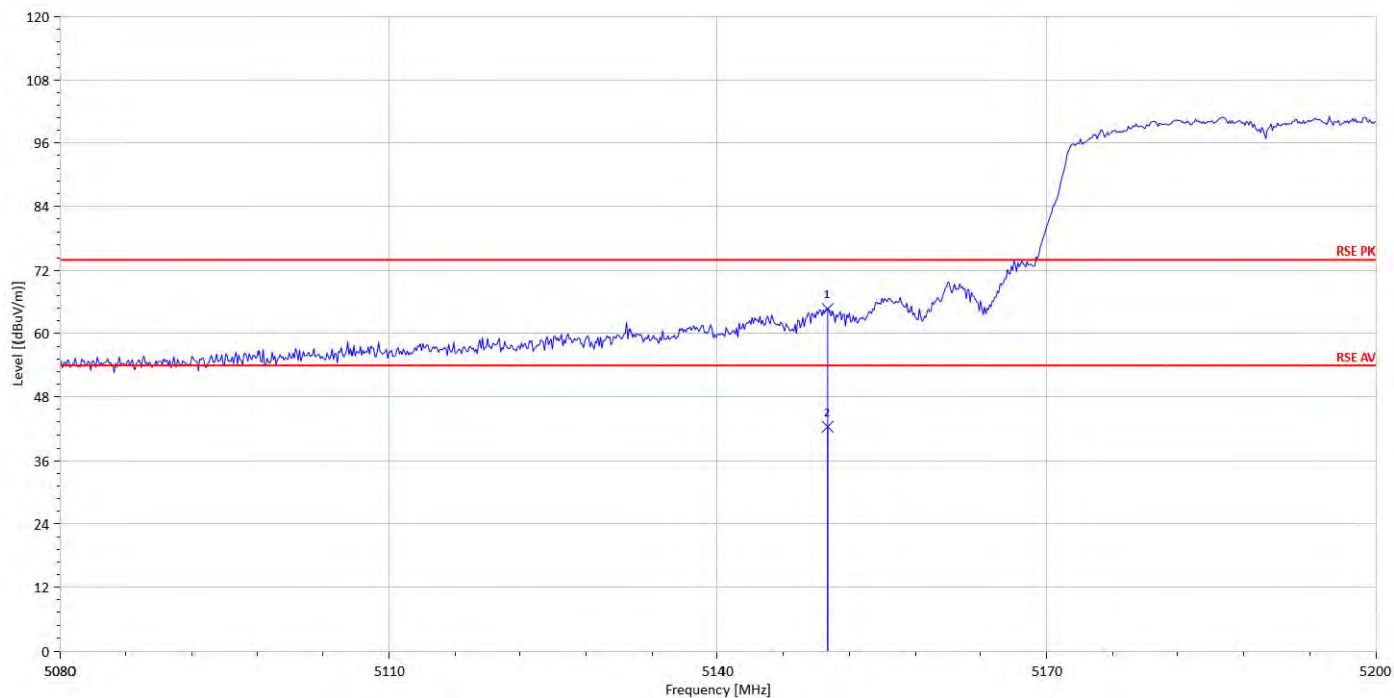
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Operation Mode :	802.11n40B1	Test Date :	2017/10/21
Fundamental Frequency :	5190 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5150.00	E	Peak	56.43	8.19	64.62	74	-9.38
5150.00	E	Average	34.13	8.19	42.32	54	-11.68

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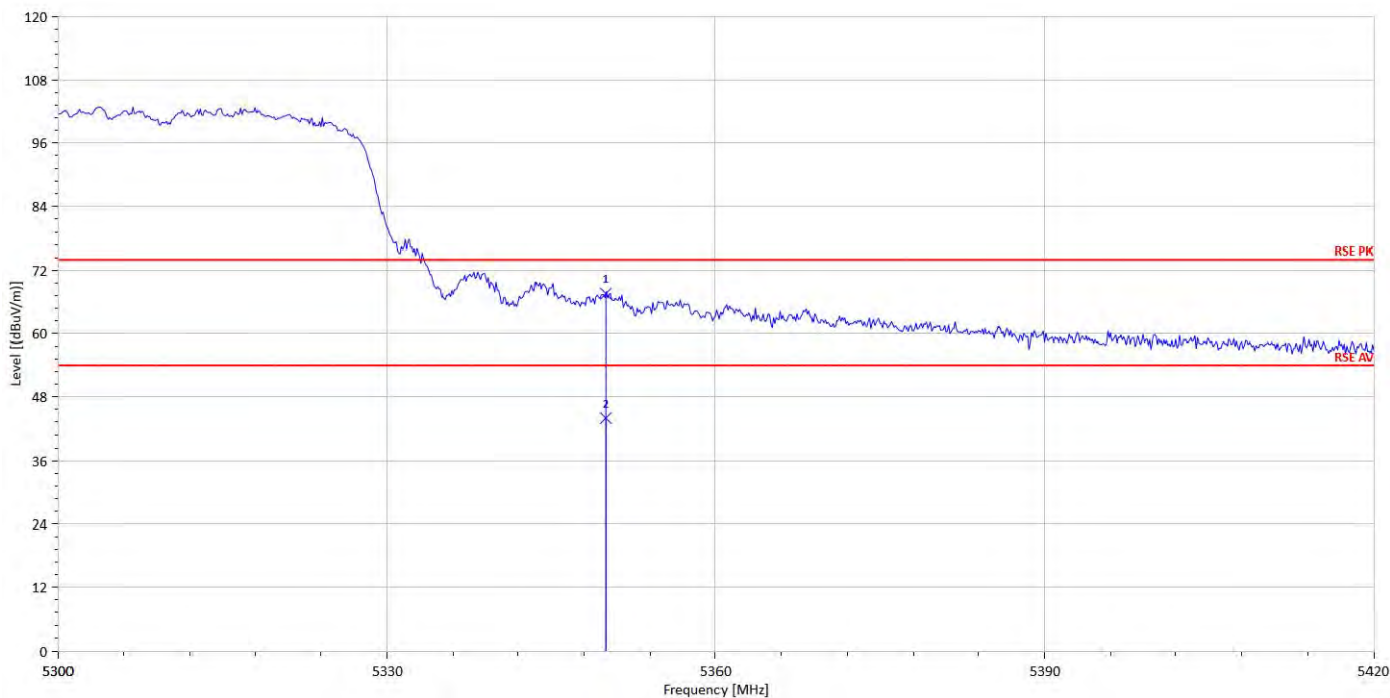
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Operation Mode :	802.11n40B2	Test Date :	2017/10/21
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5350.00	E	Peak	58.59	8.96	67.56	74	-6.44
5350.00	E	Average	35.01	8.96	43.97	54	-10.03

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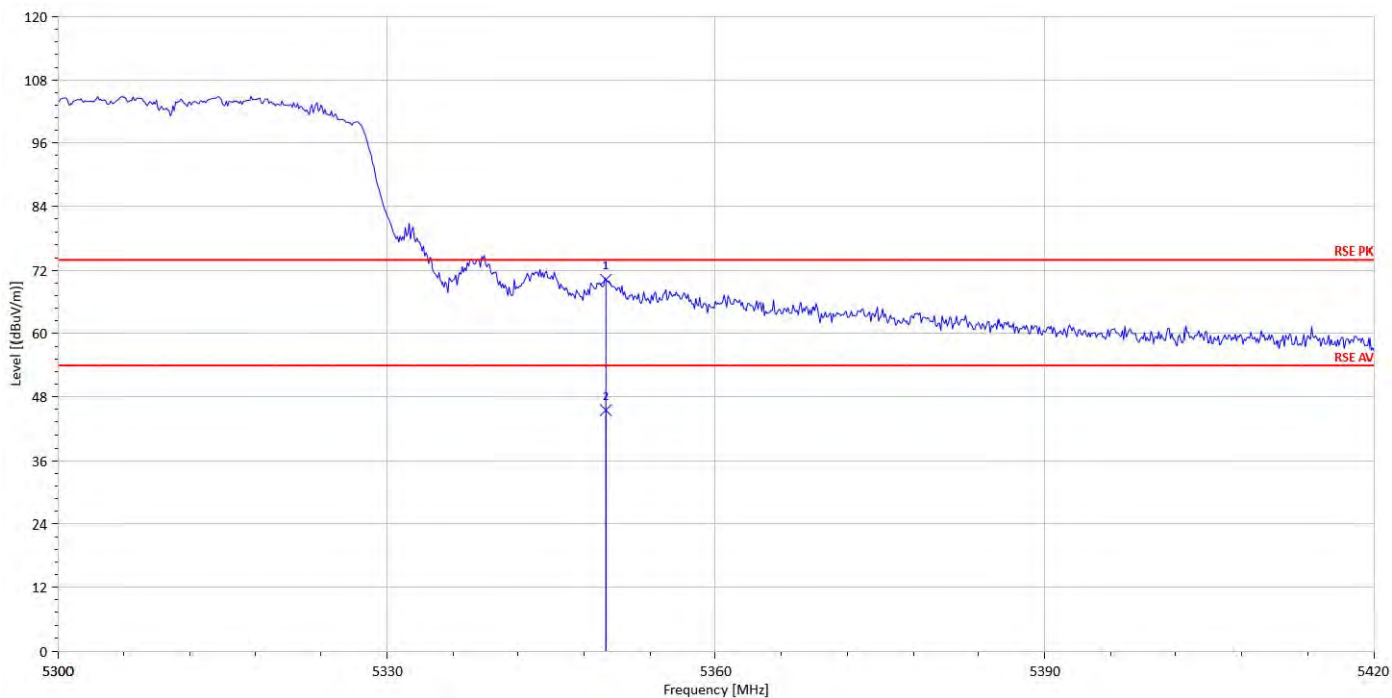
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Operation Mode :	802.11n40B2	Test Date :	2017/10/21
Fundamental Frequency :	5310 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5350.00	E	Peak	61.27	8.96	70.24	74	-3.76
5350.00	E	Average	36.51	8.96	45.47	54	-8.53

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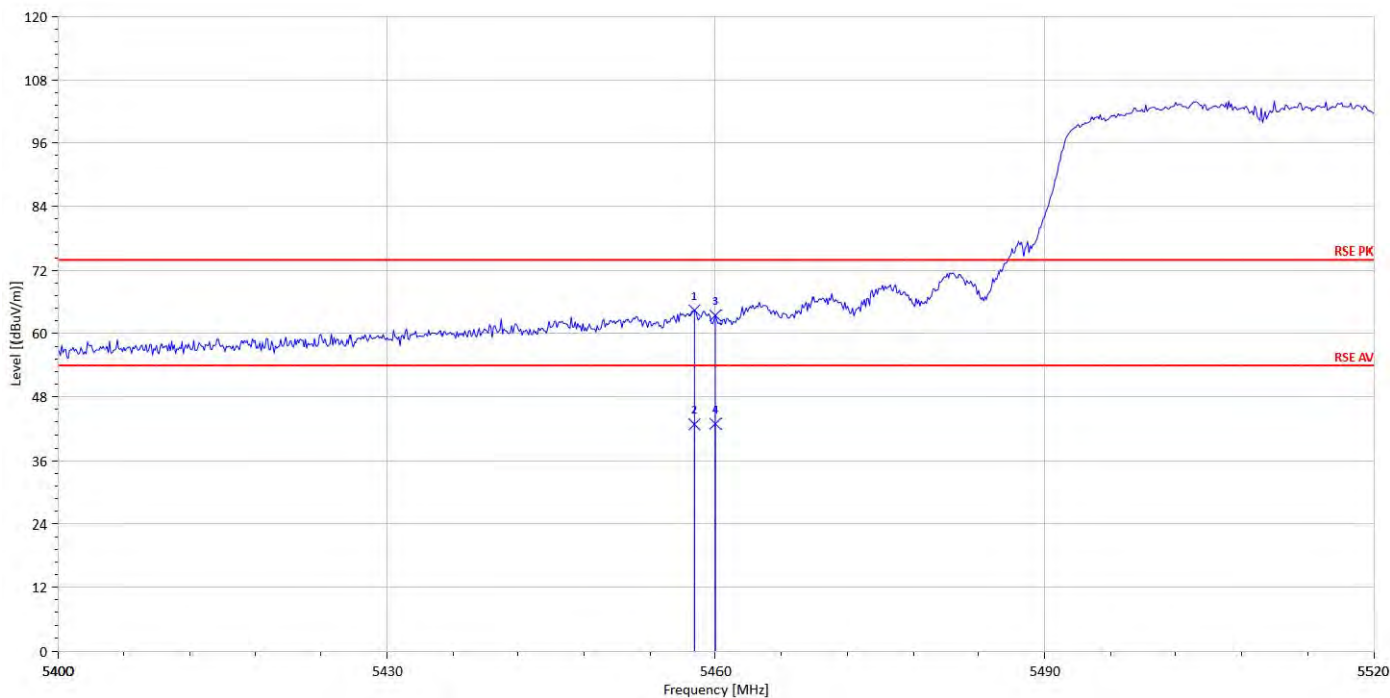
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Operation Mode :	802.11n40B3	Test Date :	2017/10/21
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5458.08	S	Peak	55.47	8.90	64.37	74	-9.63
5458.08	S	Average	33.87	8.90	42.77	54	-11.23
5460.00	E	Peak	54.51	8.88	63.40	74	-10.60
5460.00	E	Average	34.01	8.88	42.89	54	-11.11

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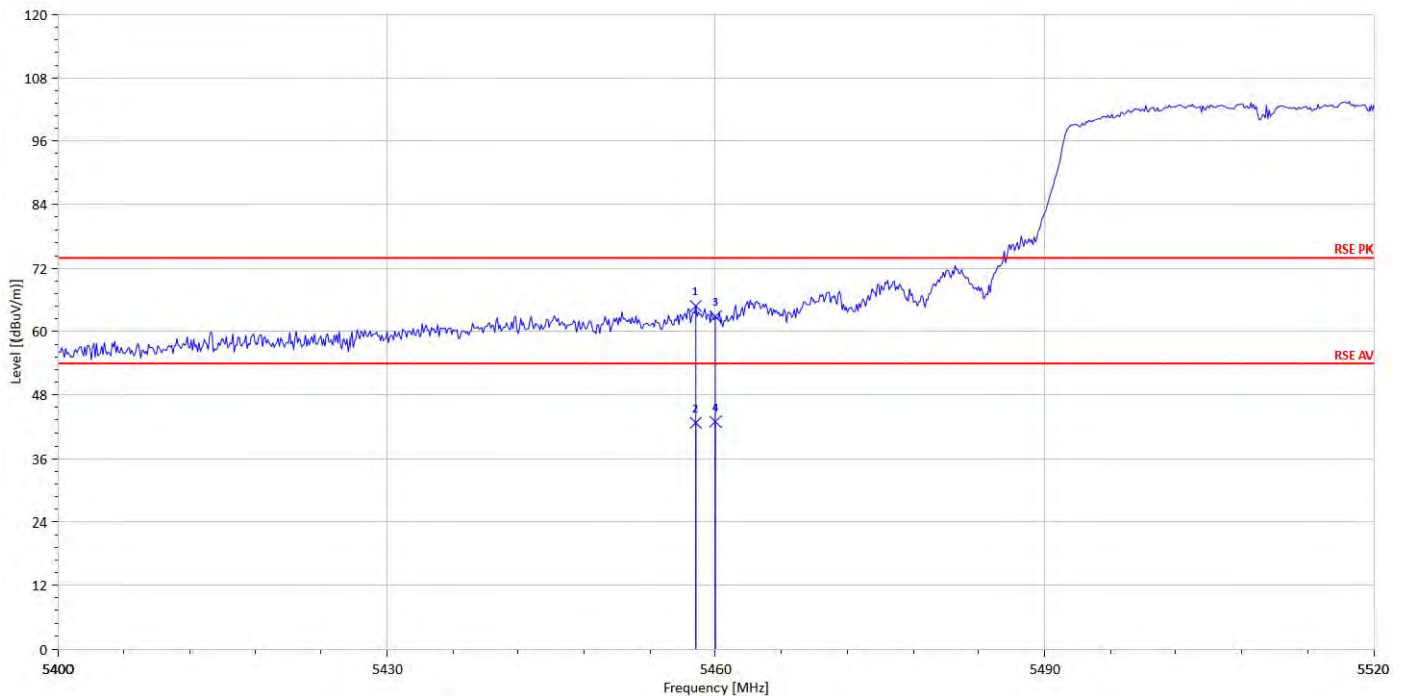
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Fundamental Frequency :	5510 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5458.20	S	Peak	55.90	8.90	64.80	74	-9.20
5458.20	S	Average	33.79	8.90	42.69	54	-11.31
5460.00	E	Peak	53.91	8.88	62.80	74	-11.20
5460.00	E	Average	34.02	8.88	42.90	54	-11.10

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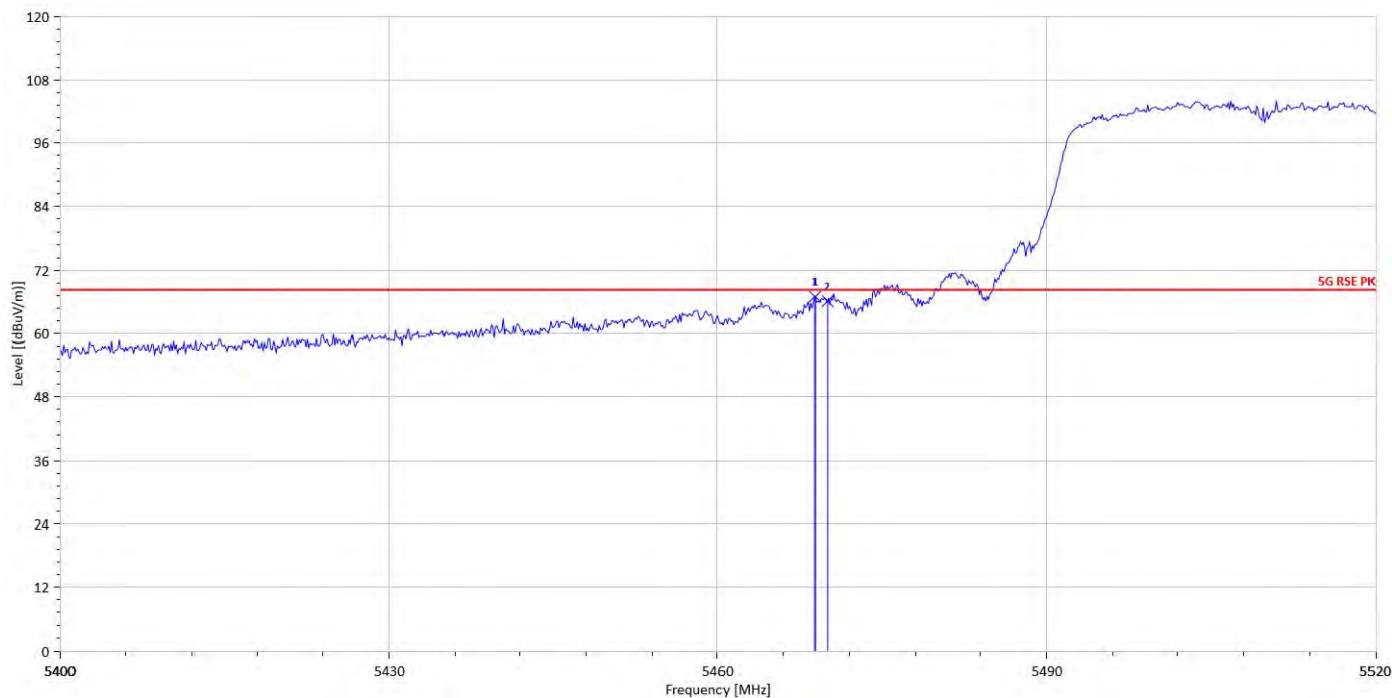
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Operation Mode :	802.11n40B3	Test Date :	2017/10/21
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5468.88	S	Peak	58.20	8.80	67.00	68.3	-1.30
5470.00	E	Peak	57.36	8.79	66.14	68.3	-2.16

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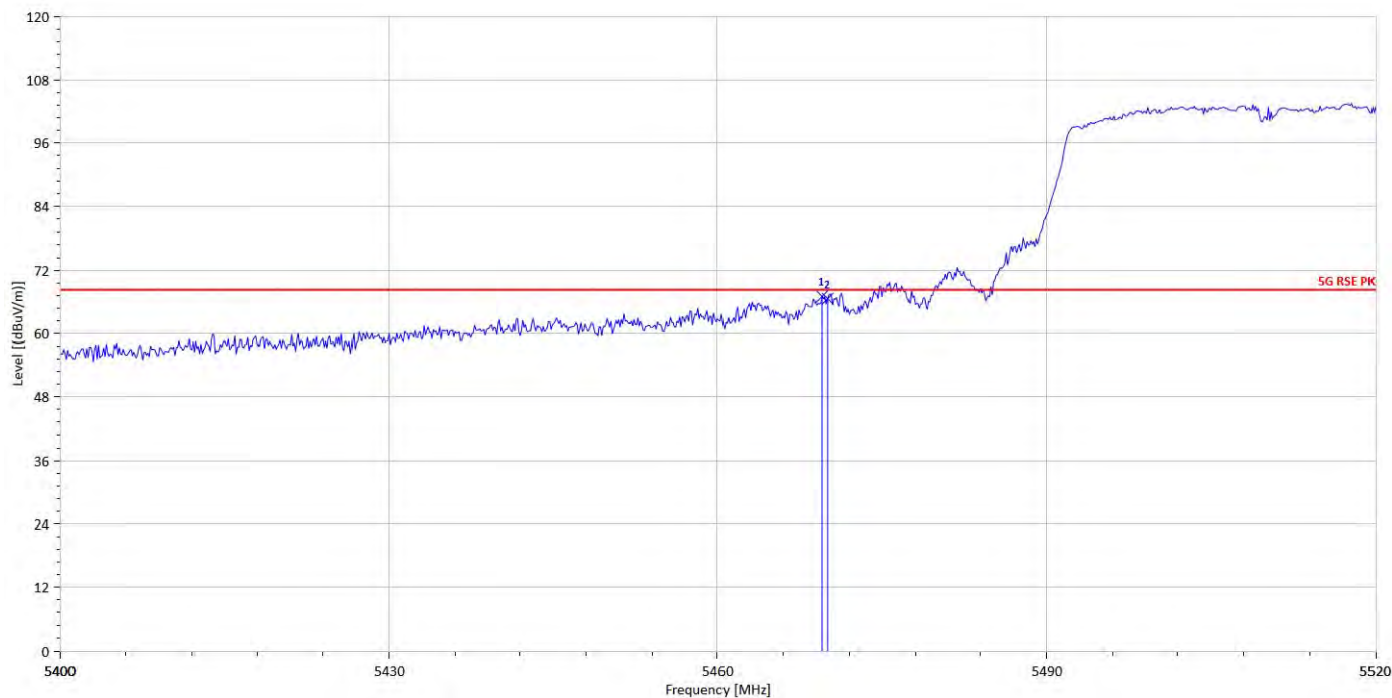
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Operation Mode :	802.11n40B3	Test Date :	2017/10/21
Fundamental Frequency :	5510 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH LOW RSE	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5469.48	S	Peak	58.23	8.79	67.02	68.3	-1.28
5470.00	E	Peak	57.82	8.79	66.61	68.3	-1.69

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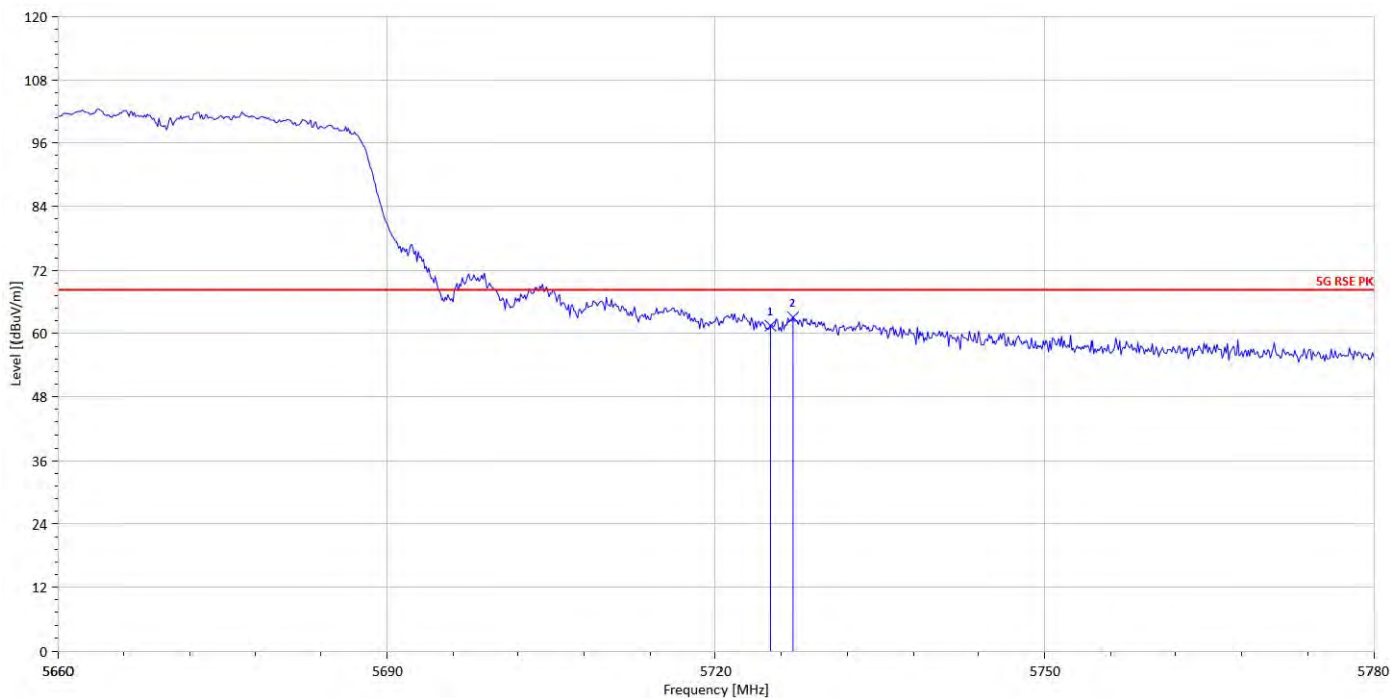
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Operation Mode :	802.11n40B3	Test Date :	2017/10/21
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5725.00	E	Peak	52.13	9.30	61.43	68.3	-6.87
5727.08	S	Peak	53.72	9.30	63.02	68.3	-5.28

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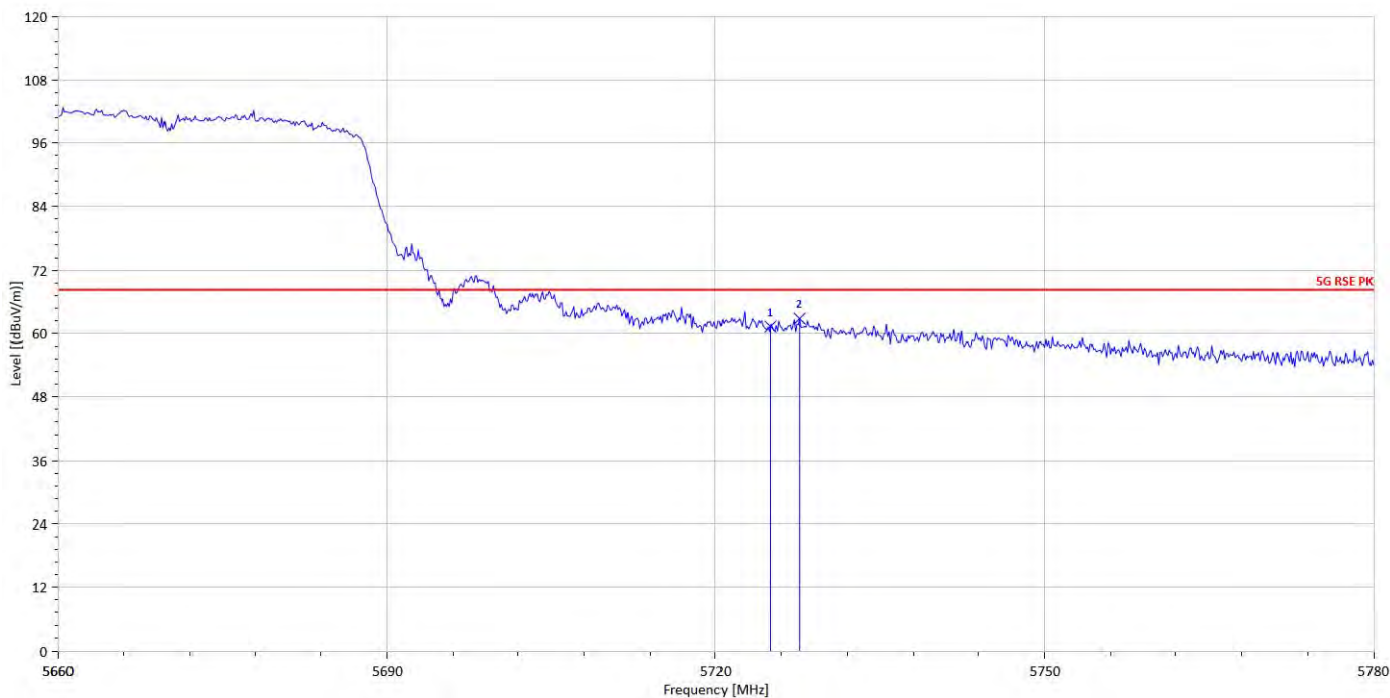
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Operation Mode :	802.11n40B3	Test Date :	2017/10/21
Fundamental Frequency :	5670 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5725.00	E	Peak	51.96	9.30	61.26	68.3	-7.04
5727.68	S	Peak	53.49	9.30	62.79	68.3	-5.51

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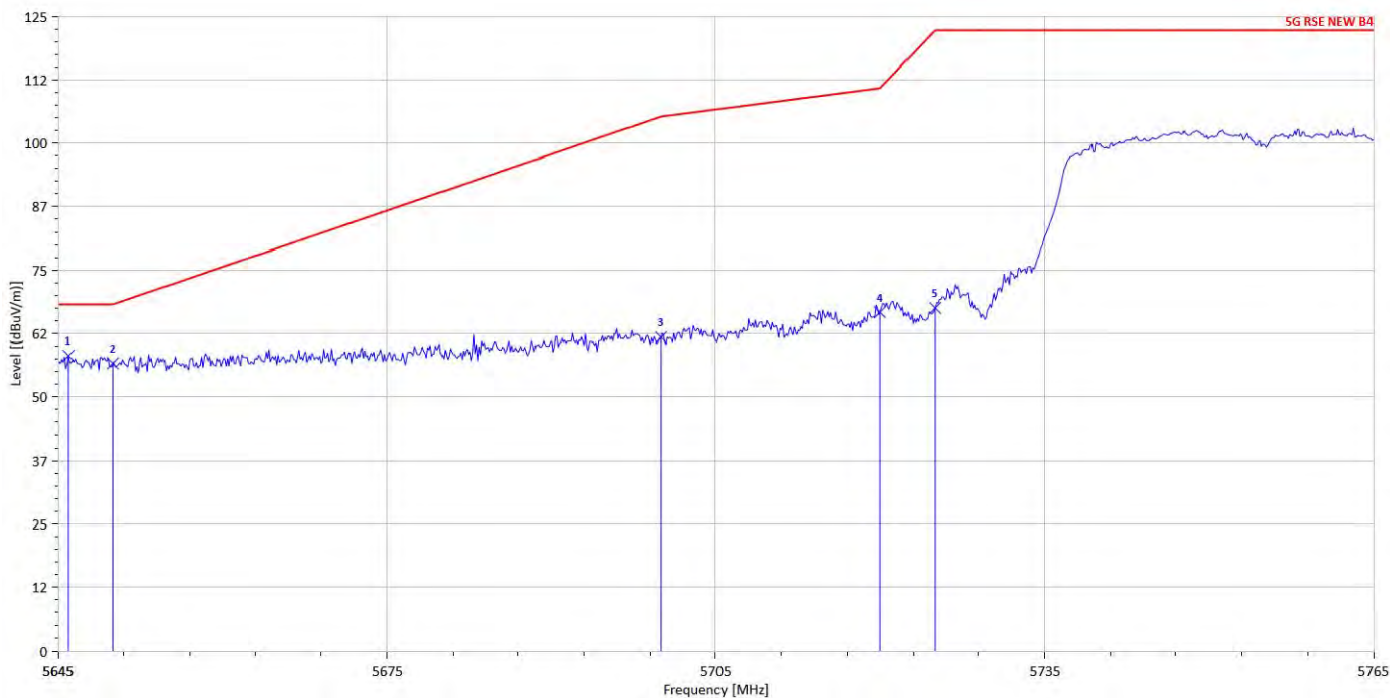
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Operation Mode : 802.11n40B4 Test Date : 2017/10/21
 Fundamental Frequency : 5755 MHz Temp. / Humi. : 24.5deg_C/70RH
 Operation Band : BE CH LOW Test Engineer : Enzo
 EUT Pol. : E2 Measurement Antenna Pol. : Vertical



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
5645.96	S	Peak	48.77	9.38	58.15	68.23	-10.08
5650.00	S	Peak	47.34	9.33	56.67	68.23	-11.56
5700.00	S	Peak	52.31	9.44	61.75	105.23	-43.48
5720.00	S	Peak	57.40	9.28	66.69	110.83	-44.14
5725.00	E	Peak	58.22	9.30	67.52	122.23	-54.71

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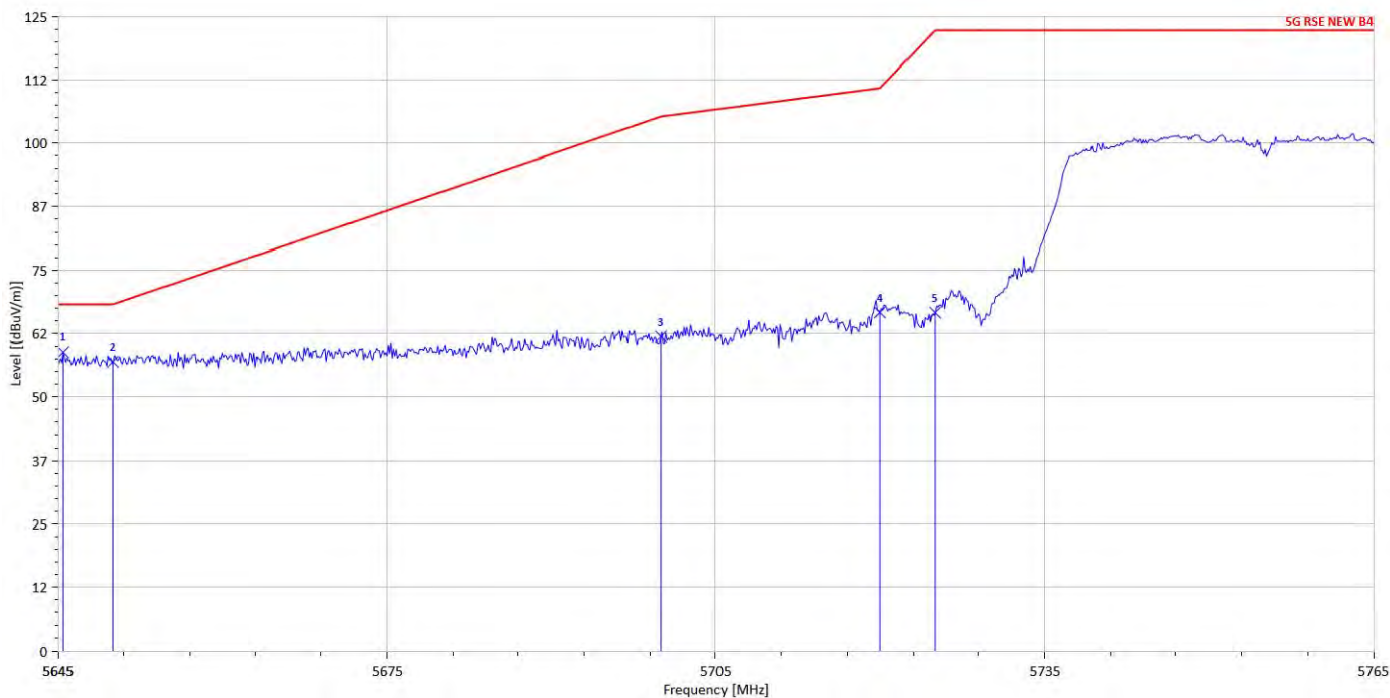
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Operation Mode :	802.11n40B4	Test Date :	2017/10/21
Fundamental Frequency :	5755 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5645.48	S	Peak	49.50	9.38	58.88	68.23	-9.35
5650.00	S	Peak	47.63	9.33	56.97	68.23	-11.26
5700.00	S	Peak	52.45	9.44	61.89	105.23	-43.34
5720.00	S	Peak	57.36	9.28	66.64	110.83	-44.19
5725.00	E	Peak	57.28	9.30	66.58	122.23	-55.65

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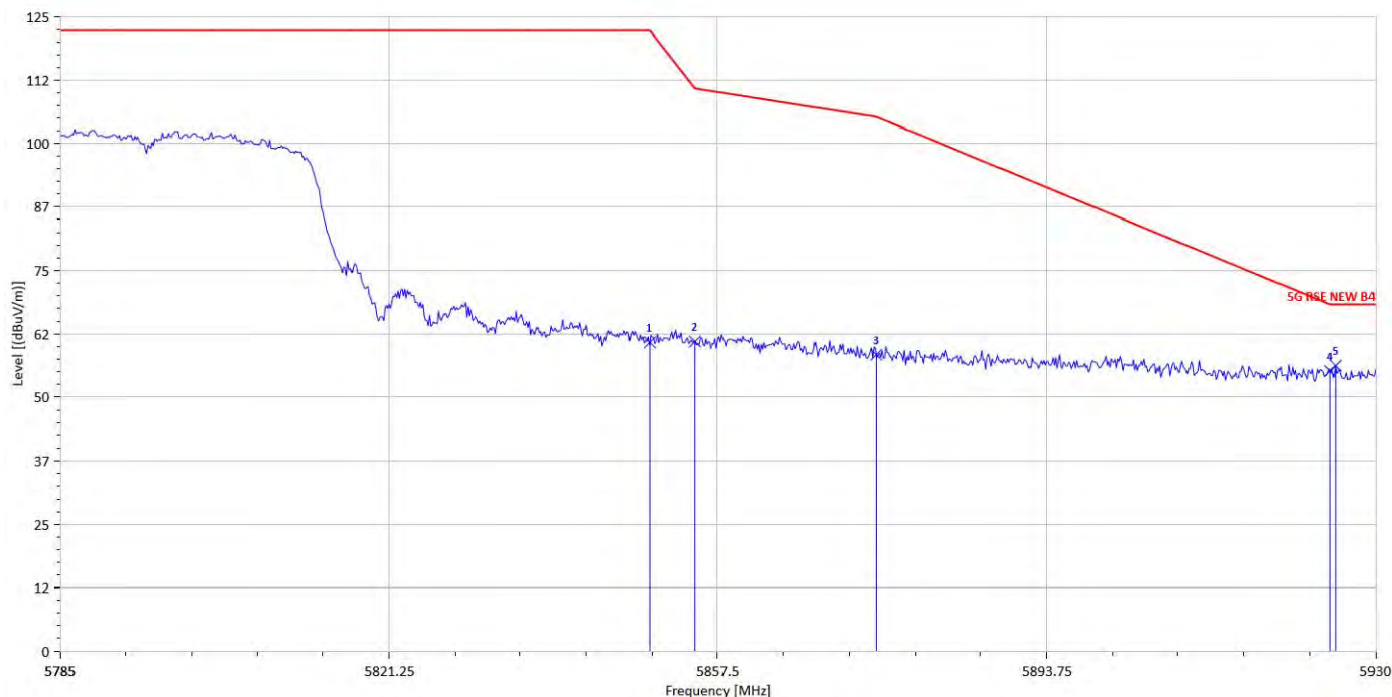
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Operation Mode :	802.11n40B4	Test Date :	2017/10/21
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5850.00	E	Peak	51.37	9.49	60.86	122.23	-61.37
5855.00	S	Peak	51.45	9.58	61.03	110.83	-49.80
5875.00	S	Peak	48.80	9.63	58.44	105.23	-46.79
5925.00	S	Peak	45.20	10.01	55.21	68.23	-13.02
5925.65	S	Peak	46.22	10.02	56.24	68.23	-11.99

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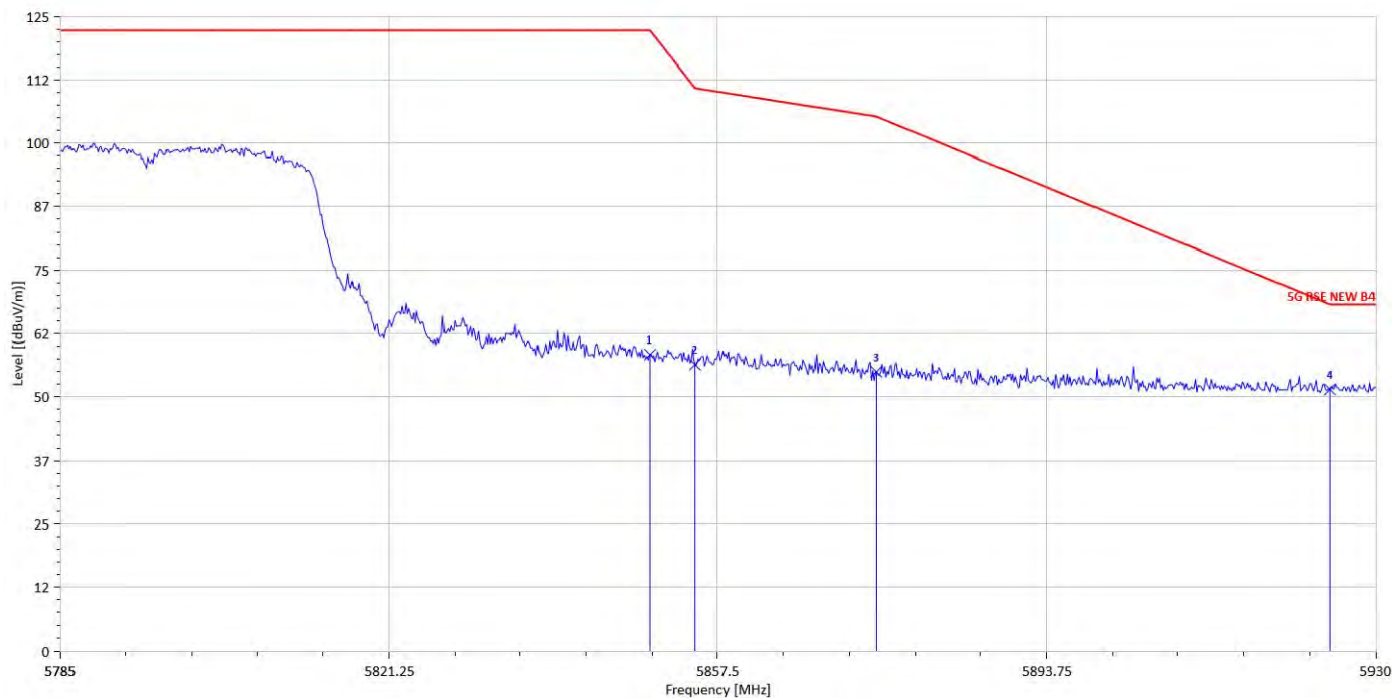
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Operation Mode :	802.11n40B4	Test Date :	2017/10/21
Fundamental Frequency :	5795 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5850.00	E	Peak	48.88	9.49	58.37	122.23	-63.86
5855.00	S	Peak	46.84	9.58	56.42	110.83	-54.41
5875.00	S	Peak	45.35	9.63	54.98	105.23	-50.25
5925.00	S	Peak	41.48	10.01	51.49	68.23	-16.74

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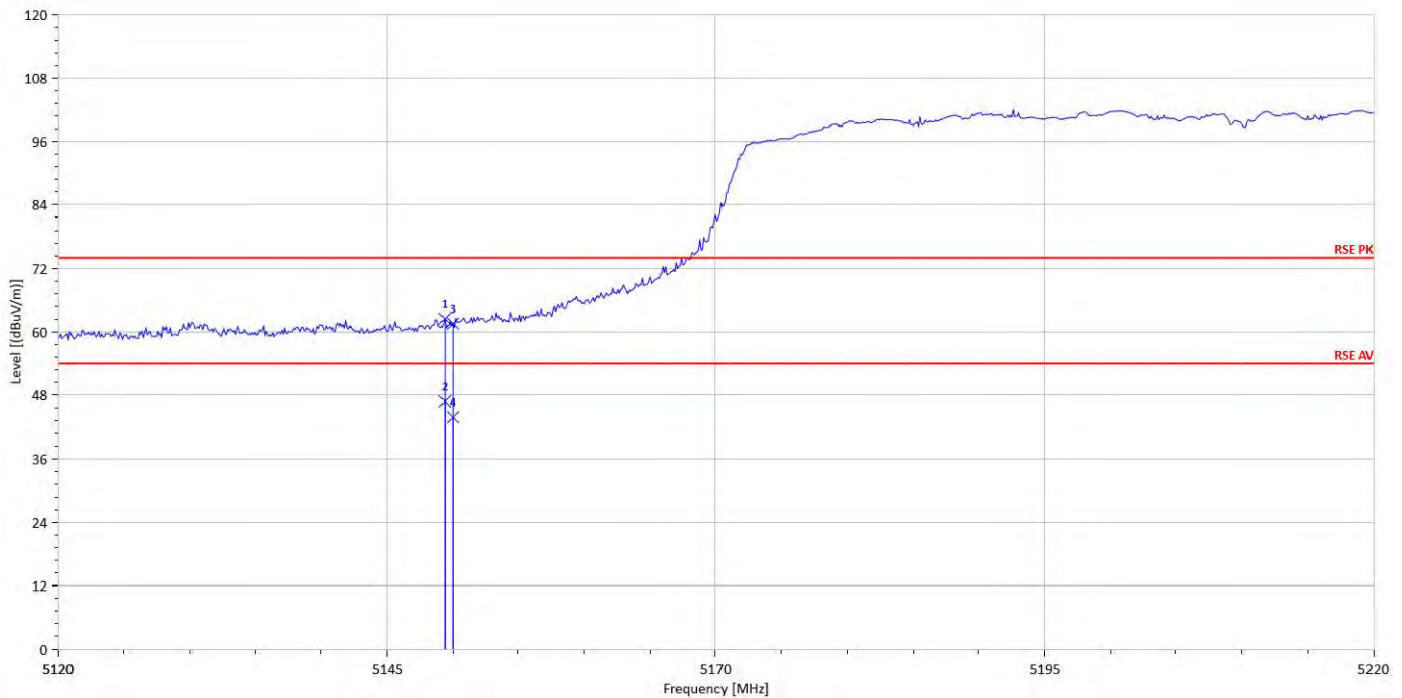
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802.11ac80 VHT mode

Operation Mode :	802.11ac80B1	Test Date :	2017/10/21
Fundamental Frequency :	5210 MHz	Temp. / Humi. :	24.5deg_C/70RH
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
5149.40	S	Peak	54.34	8.19	62.53	74	-11.47
5149.40	S	Average	38.69	8.19	46.88	54	-7.12
5150.00	E	Peak	53.42	8.19	61.61	74	-12.39
5150.00	E	Average	35.74	8.19	43.93	54	-10.07

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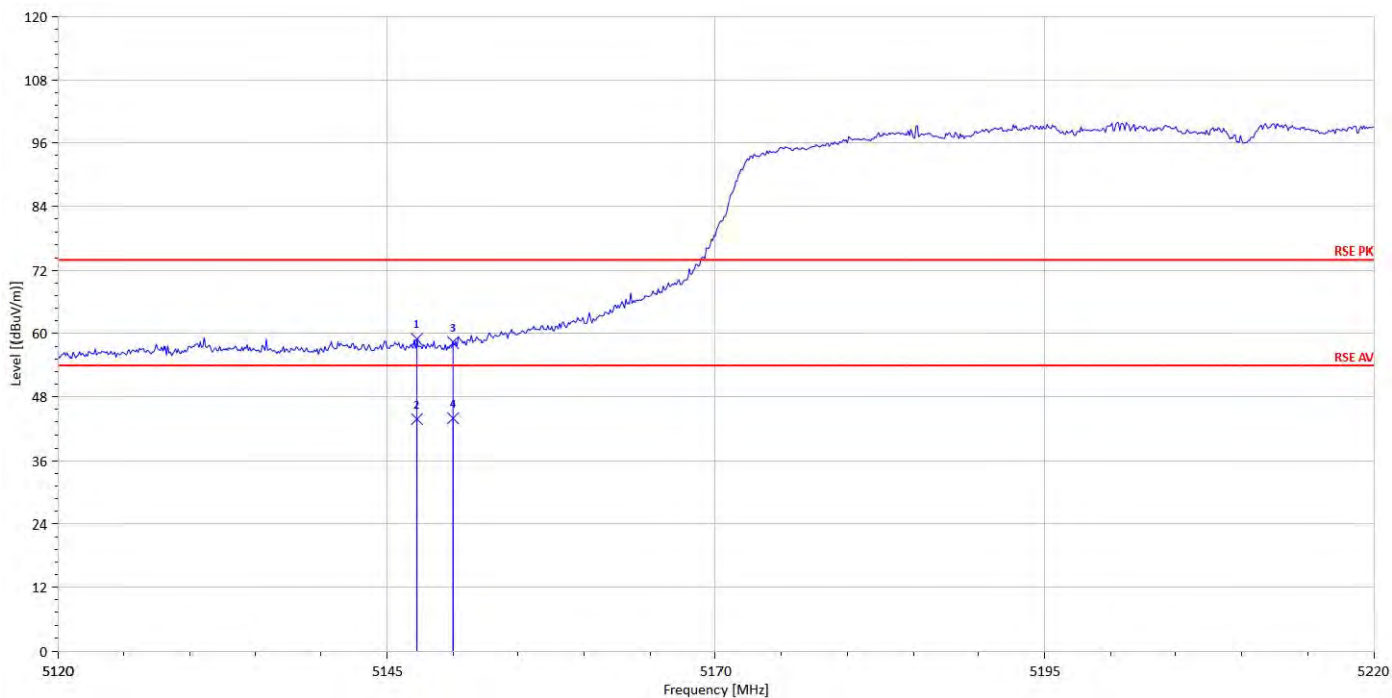
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Operation Mode : 802.11ac80B1
Fundamental Frequency : 5210 MHz
Operation Band : BE CH LOW
EUT Pol. : E2

Test Date : 2017/10/21
Temp. / Humi. : 24.5deg_C/70RH
Test Engineer : Enzo
Measurement Antenna Pol. : Horizontal



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5147.30	S	Peak	50.73	8.18	58.90	74	-15.10
5147.30	S	Average	35.60	8.18	43.78	54	-10.22
5150.00	E	Peak	50.12	8.19	58.31	74	-15.69
5150.00	E	Average	35.75	8.19	43.94	54	-10.06

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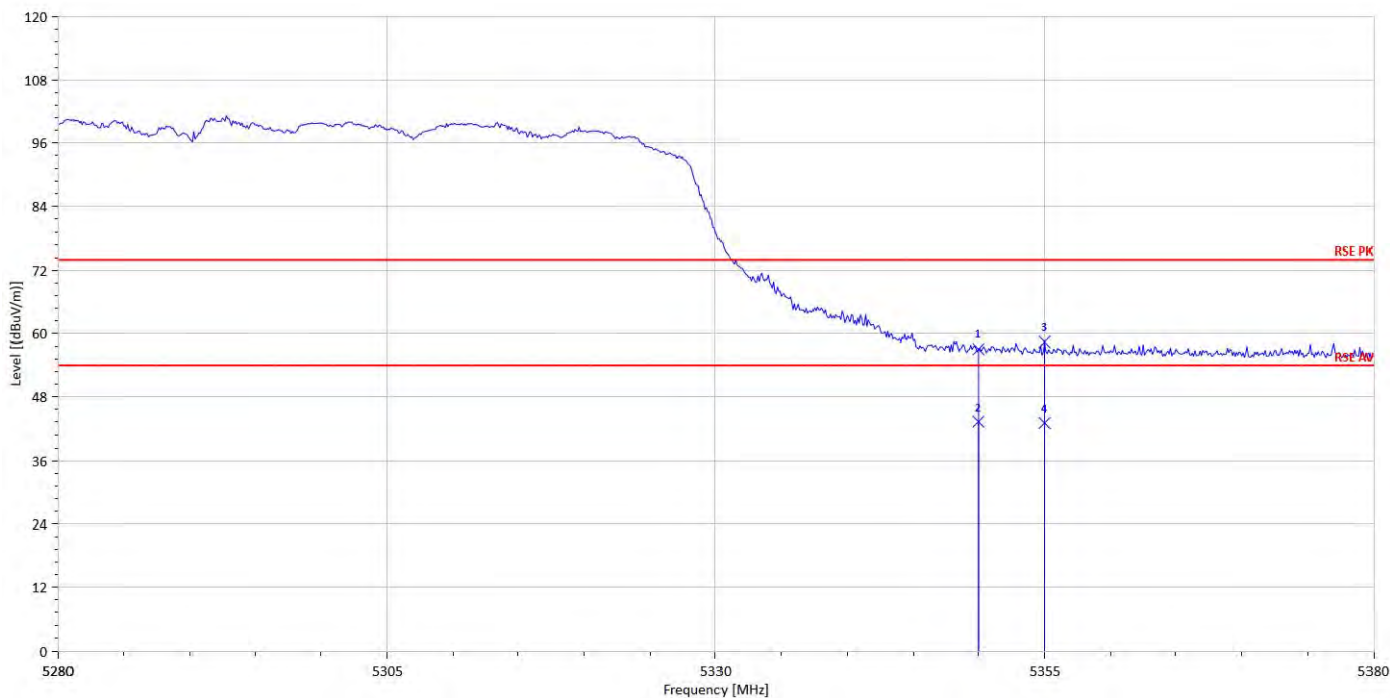
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Operation Mode :	802.11ac80B2	Test Date :	2017/10/23
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5350.00	E	Peak	48.14	8.96	57.10	74	-16.90
5350.00	E	Average	34.31	8.96	43.27	54	-10.73
5355.00	S	Peak	49.46	8.97	58.42	74	-15.58
5355.00	S	Average	34.05	8.97	43.02	54	-10.98

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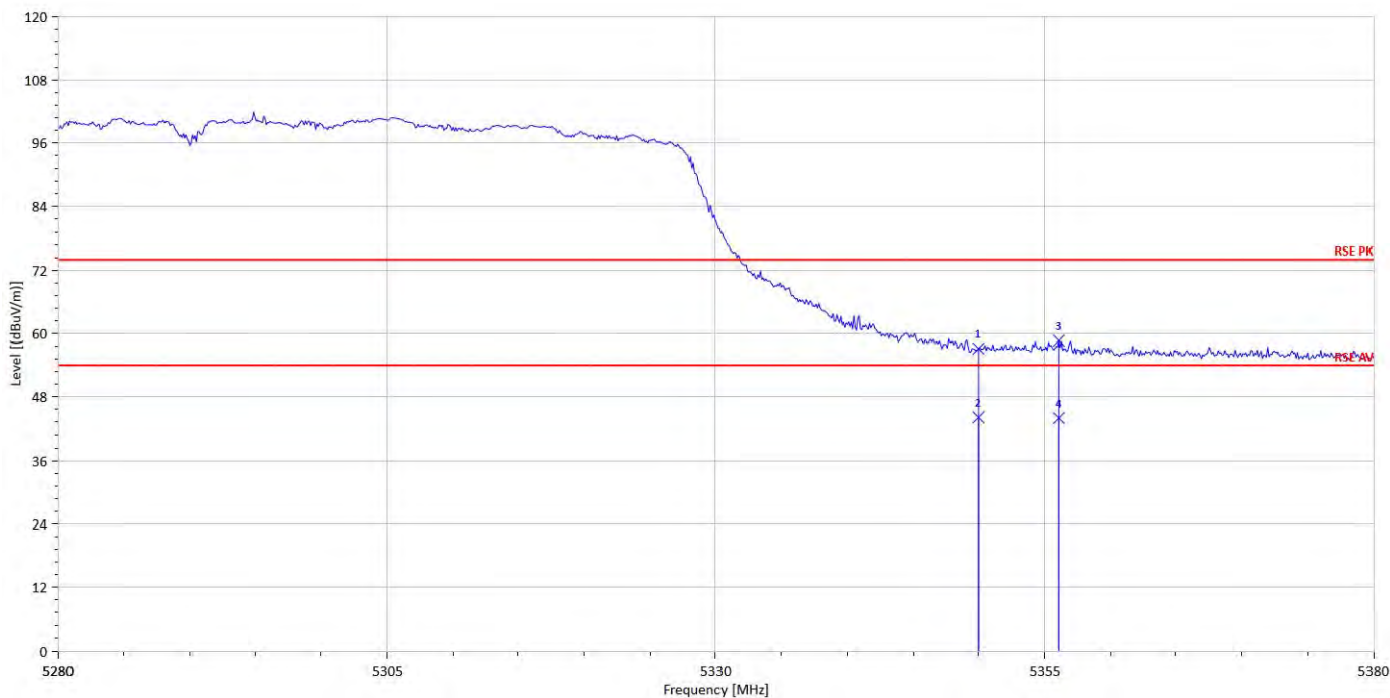
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Operation Mode :	802.11ac80B2	Test Date :	2017/10/23
Fundamental Frequency :	5290 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH High	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5350.00	E	Peak	48.21	8.96	57.17	74	-16.83
5350.00	E	Average	35.14	8.96	44.10	54	-9.90
5356.10	S	Peak	49.72	8.96	58.68	74	-15.32
5356.10	S	Average	35.02	8.96	43.98	54	-10.02

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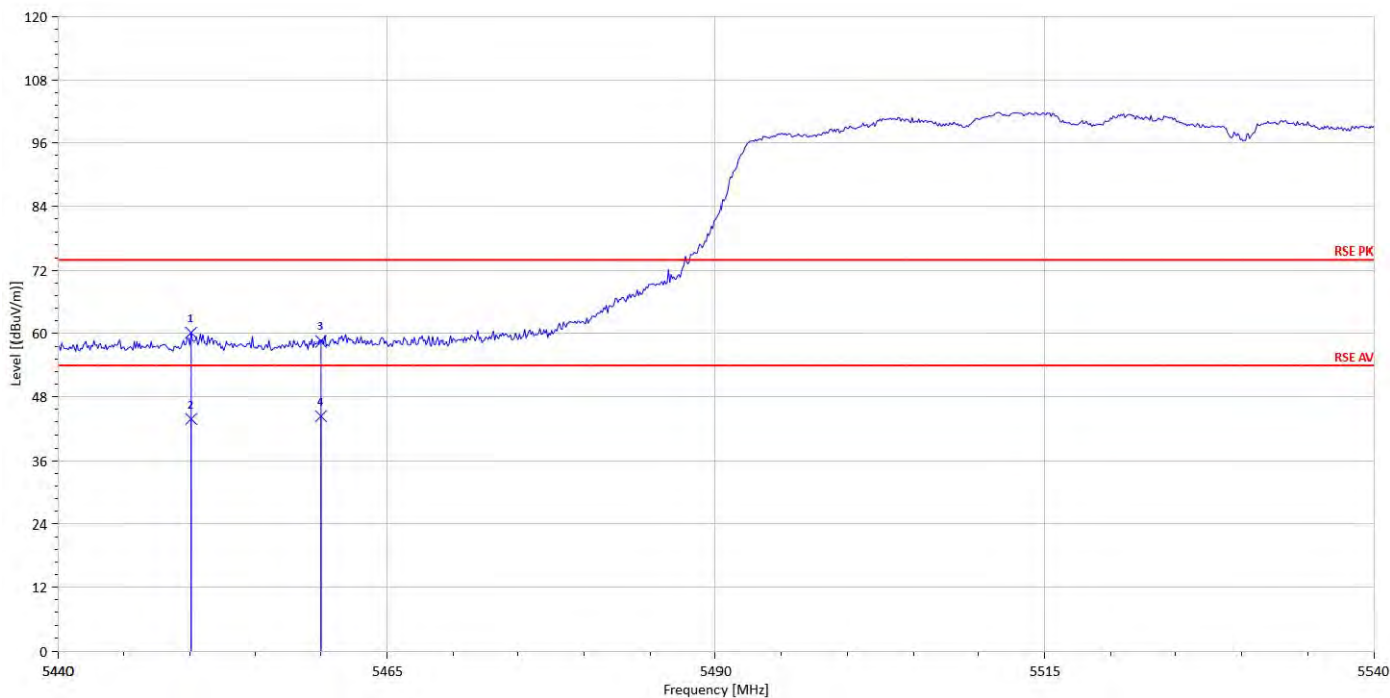
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Operation Mode :	802.11ac80B3	Test Date :	2017/10/23
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



Freq. MHz	Note F/H/E/S	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
5450.10	S	Peak	51.10	8.99	60.09	74	-13.91
5450.10	S	Average	34.81	8.99	43.80	54	-10.20
5460.00	E	Peak	49.66	8.88	58.54	74	-15.46
5460.00	E	Average	35.45	8.88	44.33	54	-9.67

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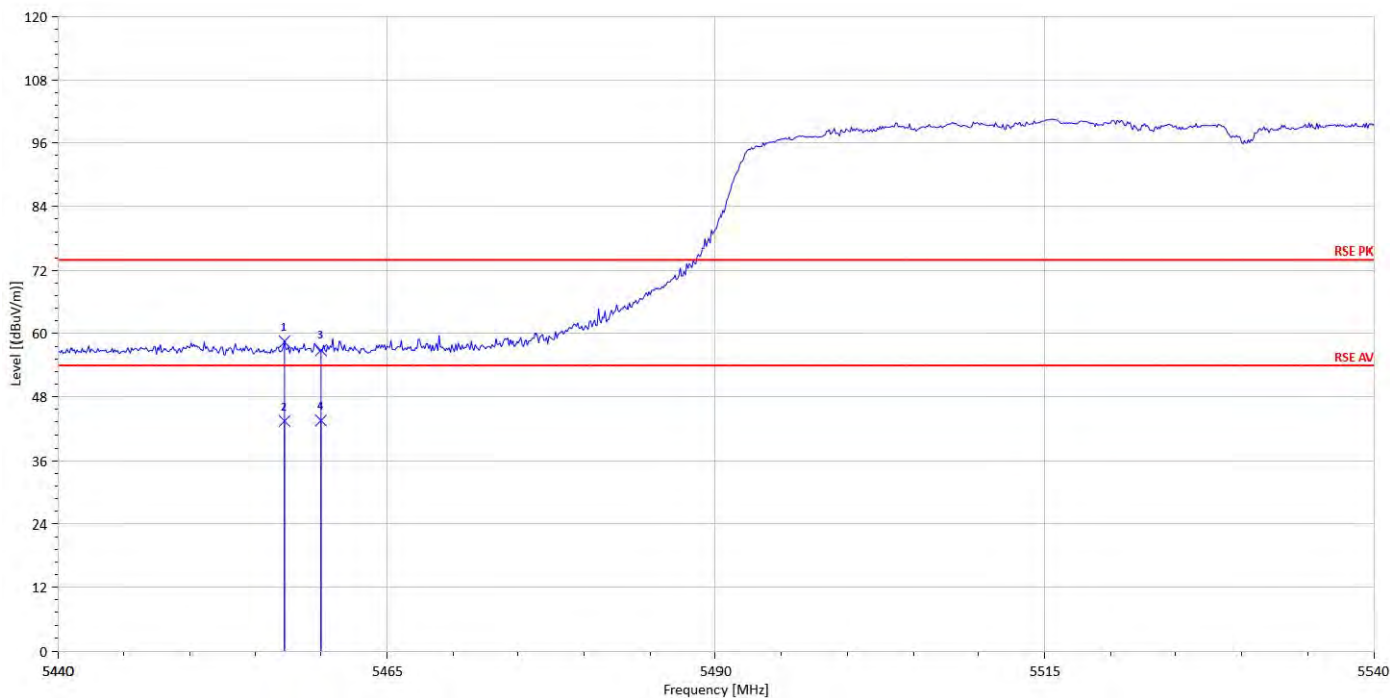
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Operation Mode :	802.11ac80B3	Test Date :	2017/10/23
Fundamental Frequency :	5530 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5457.20	S	Peak	49.57	8.91	58.48	74	-15.52
5457.20	S	Average	34.51	8.91	43.42	54	-10.58
5460.00	E	Peak	48.04	8.88	56.92	74	-17.08
5460.00	E	Average	34.63	8.88	43.51	54	-10.49

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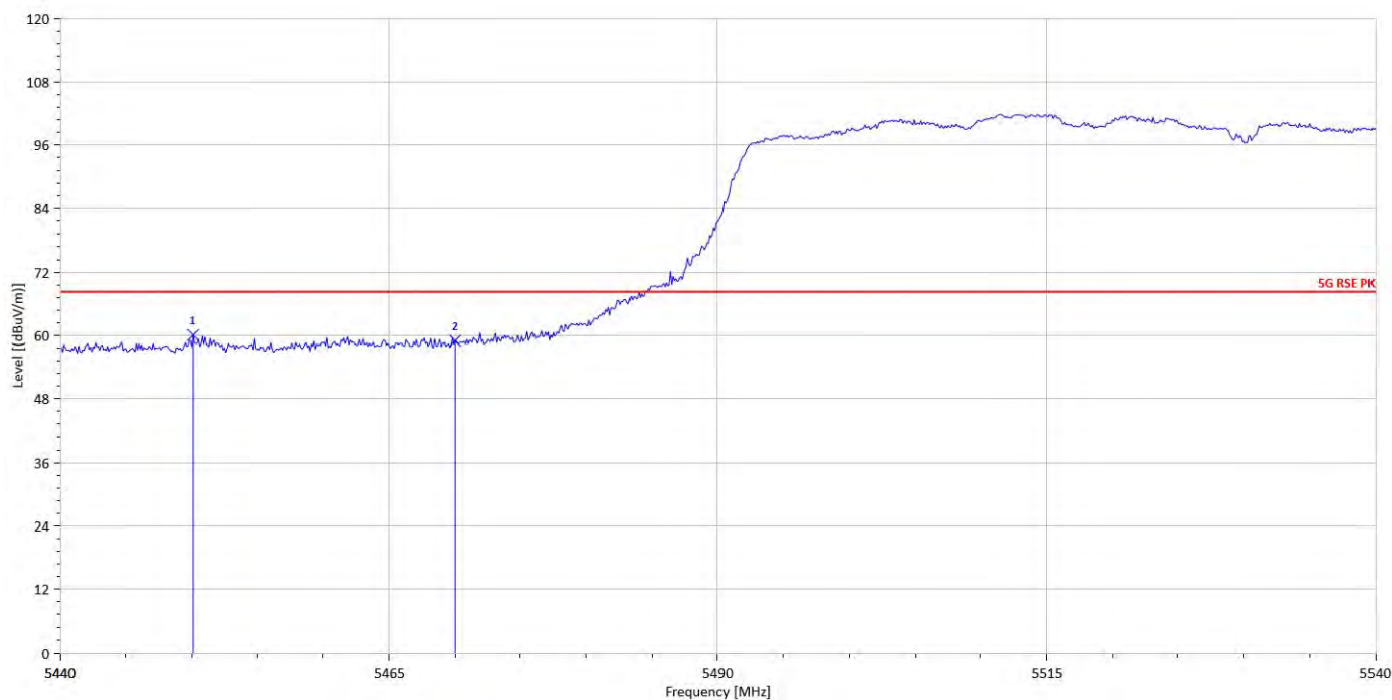
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Operation Mode : 802.11ac80B3
 Fundamental Frequency : 5530 MHz
 Operation Band : BE CH LOW RSE
 EUT Pol. : E2

Test Date : 2017/10/23
 Temp. / Humi. : 24.5deg_C/70RH
 Test Engineer : Enzo
 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
5450.10	S	Peak	51.10	8.99	60.09	68.3	-8.21
5470.00	E	Peak	50.25	8.79	59.04	68.3	-9.26

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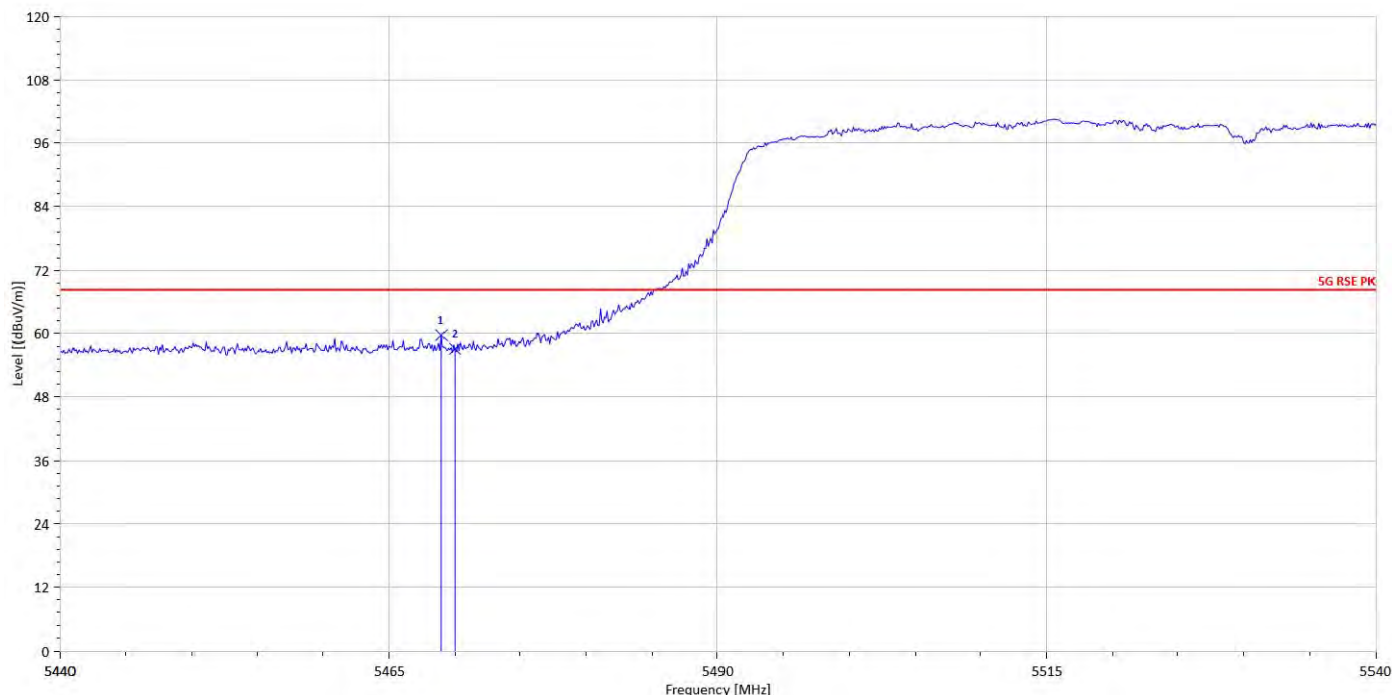
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Operation Mode : 802.11ac80B3
 Fundamental Frequency : 5530 MHz
 Operation Band : BE CH LOW RSE
 EUT Pol. : E2

Test Date : 2017/10/23
 Temp. / Humi. : 24.5deg_C/70RH
 Test Engineer : Enzo
 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
5469.00	S	Peak	50.84	8.80	59.64	68.3	-8.66
5470.00	E	Peak	48.39	8.79	57.18	68.3	-11.12

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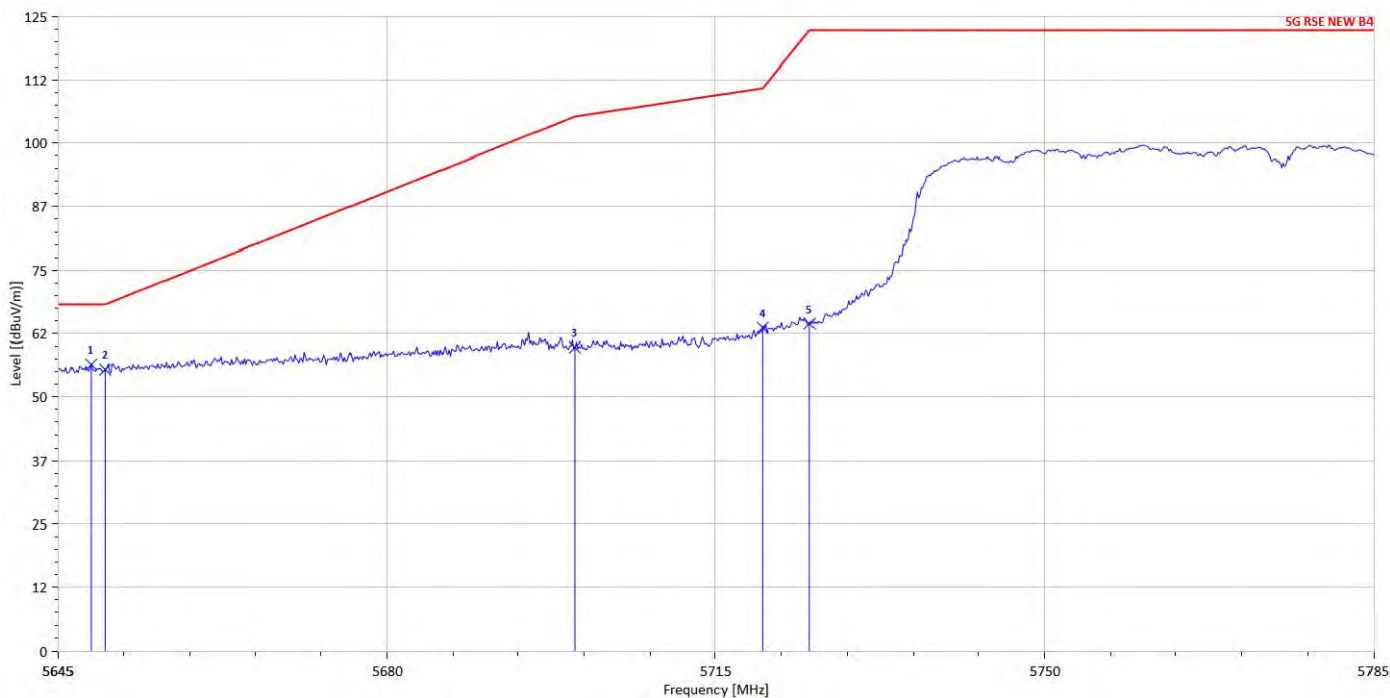
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Operation Mode :	802.11ac80B4	Test Date :	2017/10/23
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5648.50	S	Peak	47.09	9.35	56.44	68.23	-11.79
5650.00	S	Peak	46.11	9.33	55.44	68.23	-12.79
5700.00	S	Peak	50.38	9.44	59.81	105.23	-45.42
5720.00	S	Peak	54.34	9.28	63.62	110.83	-47.21
5725.00	E	Peak	55.10	9.30	64.40	122.23	-57.83

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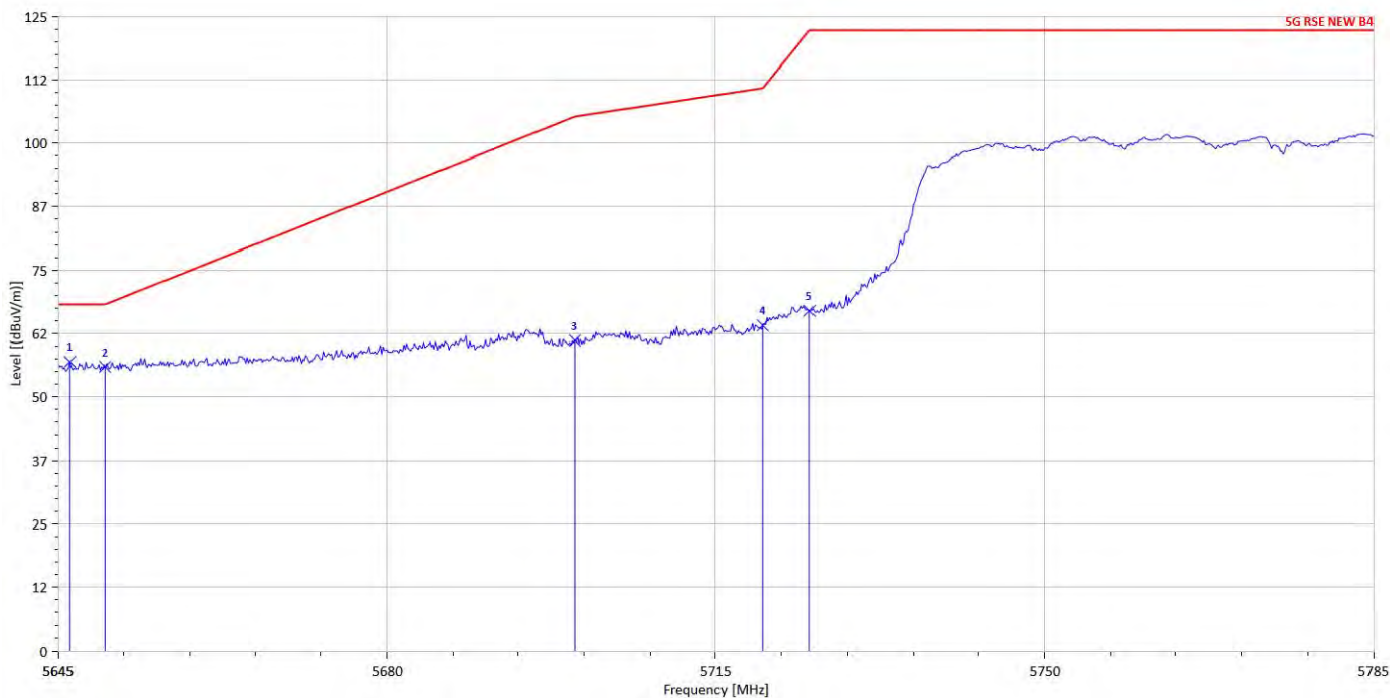
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Operation Mode :	802.11ac80B4	Test Date :	2017/10/23
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH LOW	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



Freq.	Note	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	F/H/E/S	Mode	Reading Level		FS	@3m	
		PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
5646.26	S	Peak	47.58	9.37	56.95	68.23	-11.28
5650.00	S	Peak	46.64	9.33	55.97	68.23	-12.26
5700.00	S	Peak	51.70	9.44	61.14	105.23	-44.09
5720.00	S	Peak	54.81	9.28	64.09	110.83	-46.74
5725.00	E	Peak	57.66	9.30	66.97	122.23	-55.26

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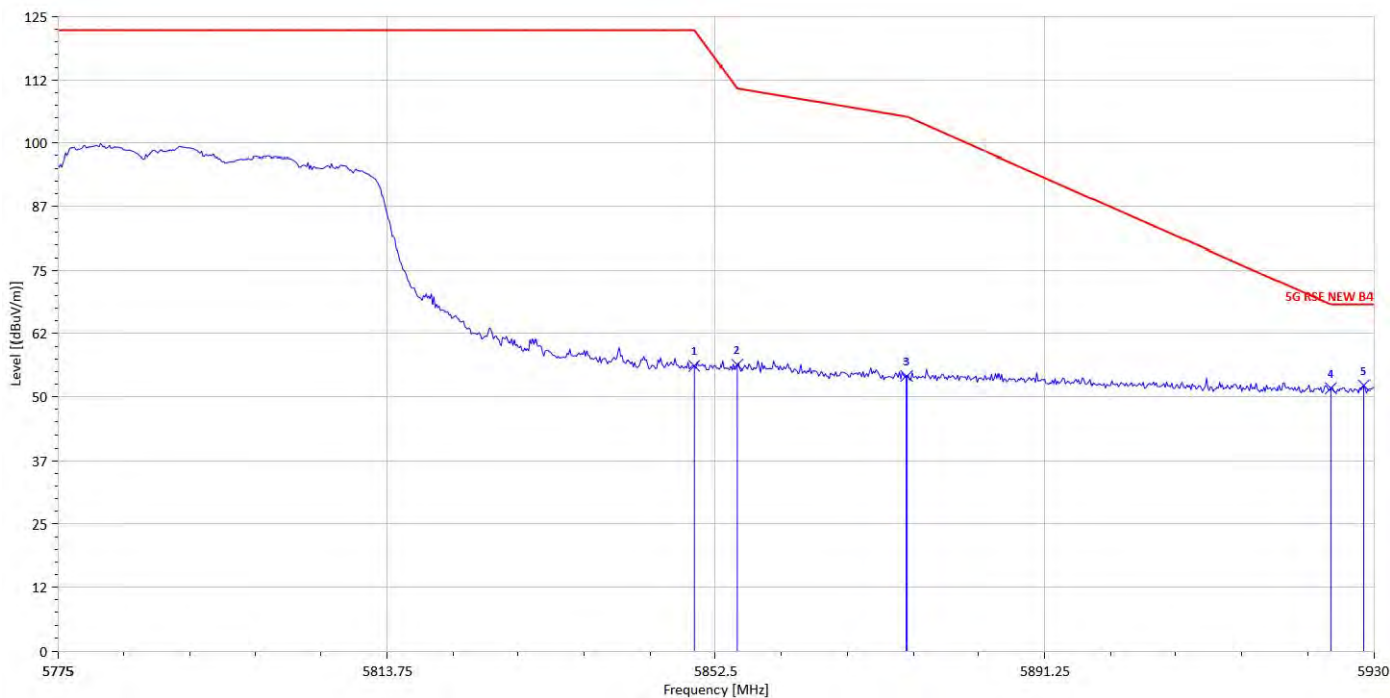
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Operation Mode :	802.11ac80B4	Test Date :	2017/10/23
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Vertical



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
5850.00	E	Peak	46.70	9.49	56.19	122.23	-66.04
5855.00	S	Peak	46.83	9.58	56.41	110.83	-54.42
5875.00	S	Peak	44.53	9.63	54.16	105.23	-51.07
5925.00	S	Peak	41.73	10.01	51.74	68.23	-16.49
5928.92	S	Peak	42.24	10.06	52.30	68.23	-15.93

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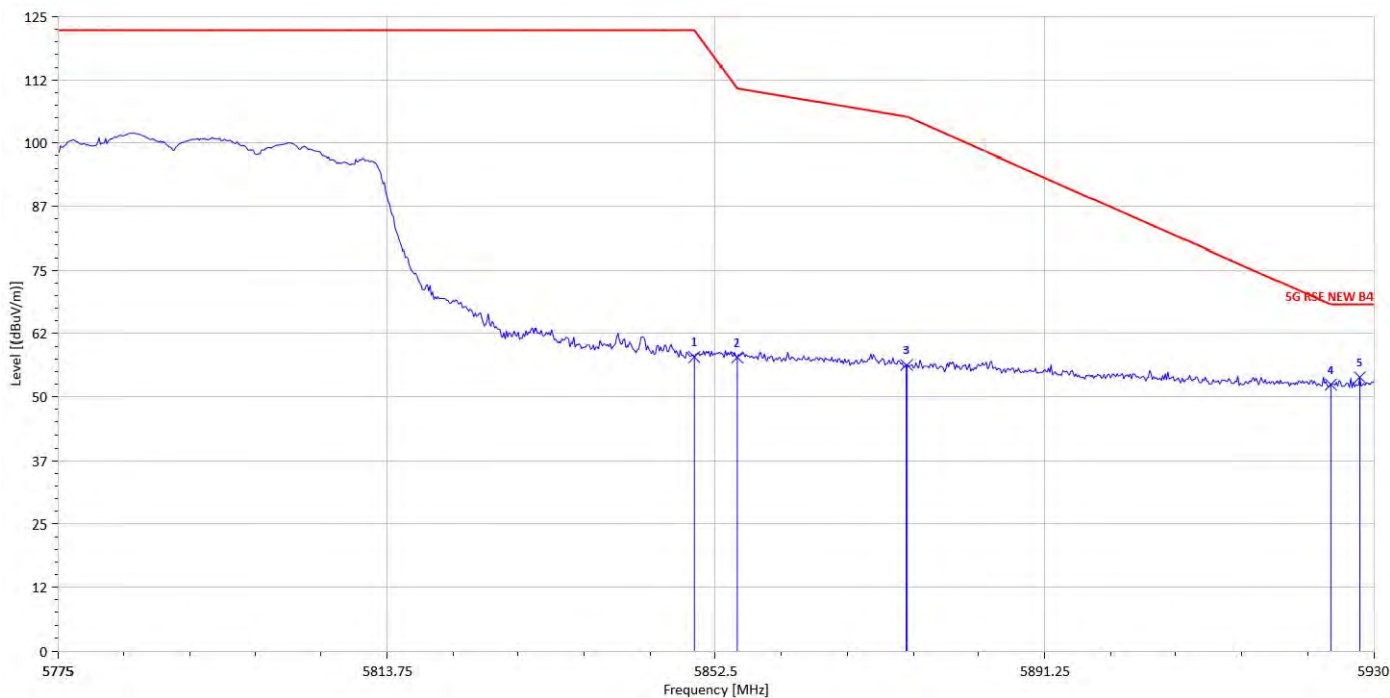
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Operation Mode :	802.11ac80B4	Test Date :	2017/10/23
Fundamental Frequency :	5775 MHz	Temp. / Humi. :	24.5deg_C/70RH
Operation Band :	BE CH HIGH	Test Engineer :	Enzo
EUT Pol. :	E2	Measurement Antenna Pol. :	Horizontal



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
5850.00	E	Peak	48.45	9.49	57.94	122.23	-64.29
5855.00	S	Peak	48.28	9.58	57.86	110.83	-52.97
5875.00	S	Peak	46.74	9.63	56.38	105.23	-48.85
5925.00	S	Peak	42.46	10.01	52.47	68.23	-15.76
5928.45	S	Peak	43.86	10.05	53.91	68.23	-14.32

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12 TRANSMISSION IN THE ABSENCE OF DATA

12.1 Standard Applicable

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

12.2 Result

While the EUT is not transmitting any information, the EUT can automatically discontinue transmission and become standby mode for power saving. The EUT can detect the controlling signal of ASK message transmitting from remote device and verify whether it shall resend or discontinue transmission.

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13 FREQUENCY STABILITY

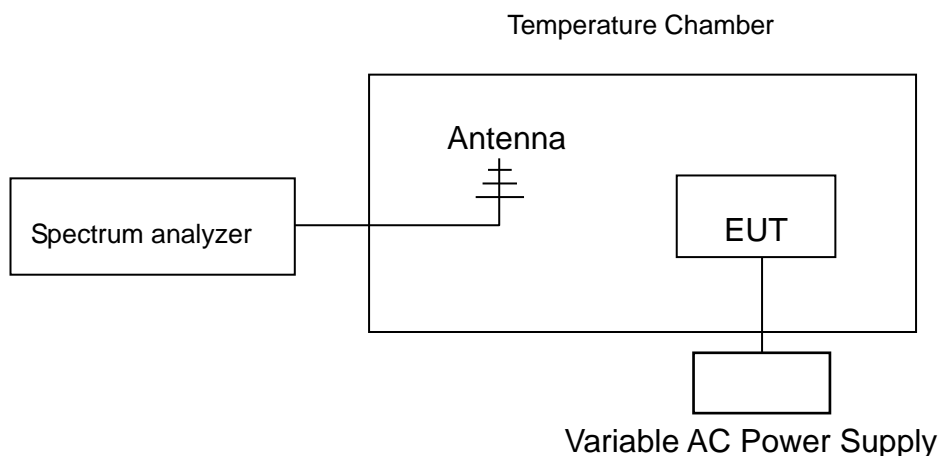
13.1 Standard Applicable

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

13.2 Measurement Procedure

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

13.3 Test SET-UP



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13.4 Measurement Equipment Used:

SGS Conducted Room					
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum Analyzer	KEYSIGHT	N9010A	MY51440113	06/20/2017	06/19/2018
Coaxial Cable 30cm	WOKEN	00100A1F1A195C	RF01	12/12/2016	12/11/2017
DC Block	PASTERNAK	PE8210	RF29	12/12/2016	12/11/2017
Splitter	RF-LAMBDA	RFLT2W1G18G	RF35	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
Temperature Chamber	TERCHY	MHK-120LK	1020582	06/13/2017	06/12/2018

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13.5 Measurement Result

Operation Mode	802.11 a	Test Date	2017.10.18
Temperature	:23 °C	Test By	Henry
Humidity	:69 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	4.37V	36	5180	5,179.91207	0.00001697
		44	5220	5,219.97294	0.00000518
		48	5240	5,239.97513	0.00000475
		52	5260	5,259.97569	0.00000462
		60	5300	5,299.96249	0.00000708
		64	5320	5,319.95210	0.00000900
		100	5500	5,499.95891	0.00000747
		116	5580	5,579.95029	0.00000891
		140	5700	5,699.90260	0.00001709
		149	5745	5,744.90436	0.00001665
		157	5785	5,784.91299	0.00001504
		165	5825	5,824.97975	0.00000348
	3.42V	36	5180	5,179.90880	0.00001761
		44	5220	5,219.94040	0.00001142
		48	5240	5,239.94138	0.00001119
		52	5260	5,259.96699	0.00000628
		60	5300	5,299.96212	0.00000715
		64	5320	5,319.91942	0.00001515
		100	5500	5,499.92473	0.00001368
		116	5580	5,579.93156	0.00001227
		140	5700	5,699.93552	0.00001131
		149	5745	5,744.98691	0.00000228
		157	5785	5,784.95003	0.00000864
		165	5825	5,824.94811	0.00000891

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25 °C	3.8V	36	5180	5,179.95508	0.00000867
		44	5220	5,220.00000	0.00000000
		48	5240	5,240.00000	0.00000000
		52	5260	5,259.98511	0.00000283
		60	5300	5,299.98511	0.00000281
		64	5320	5,319.98486	0.00000285
		100	5500	5,499.97022	0.00000542
		116	5580	5,579.96997	0.00000538
		140	5700	5,699.98511	0.00000261
		149	5745	5,744.98511	0.00000259
		157	5785	5,784.98511	0.00000257
		165	5825	5,824.98511	0.00000256
40 °C	4.37V	36	5180	5,179.92377	0.00001472
		44	5220	5,219.90192	0.00001879
		48	5240	5,239.96406	0.00000686
		52	5260	5,259.90817	0.00001746
		60	5300	5,299.96762	0.00000611
		64	5320	5,319.97494	0.00000471
		100	5500	5,499.98818	0.00000215
		116	5580	5,579.91838	0.00001463
		140	5700	5,699.96702	0.00000579
		149	5745	5,744.95840	0.00000724
		157	5785	5,784.95623	0.00000757
		165	5825	5,824.90283	0.00001668
	3.42V	36	5180	5,179.98108	0.00000365
		44	5220	5,219.93731	0.00001201
		48	5240	5,239.96738	0.00000623
		52	5260	5,259.90765	0.00001756
		60	5300	5,299.91713	0.00001563
		64	5320	5,319.98459	0.00000290
		100	5500	5,499.91758	0.00001499
		116	5580	5,579.94491	0.00000987
		140	5700	5,699.95995	0.00000703
		149	5745	5,744.93398	0.00001149
		157	5785	5,784.93081	0.00001196
		165	5825	5,824.92975	0.00001206

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Operation Mode	802.11 a	Test Date	2017.10.18
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	4.37V	36	5180	5,179.96083	0.00000756
		44	5220	5,219.91867	0.00001558
		48	5240	5,239.94370	0.00001074
		52	5260	5,259.95732	0.00000811
		60	5300	5,299.91682	0.00001570
		64	5320	5,319.93501	0.00001222
		100	5500	5,499.95330	0.00000849
		116	5580	5,579.93756	0.00001119
		140	5700	5,699.91333	0.00001521
		149	5745	5,744.94027	0.00001040
		157	5785	5,784.91034	0.00001550
		165	5825	5,824.95929	0.00000699
	3.42V	36	5180	5,179.92741	0.00001401
		44	5220	5,219.91901	0.00001552
		48	5240	5,239.95394	0.00000879
		52	5260	5,259.97476	0.00000480
		60	5300	5,299.98029	0.00000372
		64	5320	5,319.97917	0.00000392
		100	5500	5,499.97158	0.00000517
		116	5580	5,579.96637	0.00000603
		140	5700	5,699.90346	0.00001694
		149	5745	5,744.94441	0.00000968
		157	5785	5,784.93034	0.00001204
		165	5825	5,824.96484	0.00000604

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25 °C	3.8V	36	5180	5,179.98009	0.00000384
		44	5220	5,219.91326	0.00001662
		48	5240	5,239.96345	0.00000698
		52	5260	5,259.92888	0.00001352
		60	5300	5,299.96998	0.00000566
		64	5320	5,319.96108	0.00000732
		100	5500	5,499.91287	0.00001584
		116	5580	5,579.93510	0.00001163
		140	5700	5,699.92150	0.00001377
		149	5745	5,744.96228	0.00000657
		157	5785	5,784.91342	0.00001497
		165	5825	5,824.98361	0.00000281
40 °C	4.37V	36	5180	5,179.95074	0.00000951
		44	5220	5,219.91562	0.00001617
		48	5240	5,239.90066	0.00001896
		52	5260	5,259.93602	0.00001216
		60	5300	5,299.94915	0.00000960
		64	5320	5,319.95403	0.00000864
		100	5500	5,499.97175	0.00000514
		116	5580	5,579.93820	0.00001107
		140	5700	5,699.91872	0.00001426
		149	5745	5,744.96384	0.00000629
		157	5785	5,784.91152	0.00001530
		165	5825	5,824.90223	0.00001678
	3.42V	36	5180	5,179.91806	0.00001582
		44	5220	5,219.95148	0.00000929
		48	5240	5,239.97118	0.00000550
		52	5260	5,259.90472	0.00001811
		60	5300	5,299.90688	0.00001757
		64	5320	5,319.92394	0.00001430
		100	5500	5,499.90257	0.00001771
		116	5580	5,579.92099	0.00001416
		140	5700	5,699.96672	0.00000584
		149	5745	5,744.92472	0.00001310
		157	5785	5,784.97129	0.00000496
		165	5825	5,824.90081	0.00001703

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Operation Mode	802.11 a	Test Date	2017.10.18
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	4.37V	36	5180	5,179.92898	0.00001371
		44	5220	5,219.97117	0.00000552
		48	5240	5,239.94843	0.00000984
		52	5260	5,259.96573	0.00000651
		60	5300	5,299.93108	0.00001300
		64	5320	5,319.93396	0.00001241
		100	5500	5,499.95151	0.00000882
		116	5580	5,579.94667	0.00000956
		140	5700	5,699.94231	0.00001012
		149	5745	5,744.98130	0.00000326
		157	5785	5,784.92722	0.00001258
		165	5825	5,824.92277	0.00001326
	3.42V	36	5180	5,179.95454	0.00000878
		44	5220	5,219.96479	0.00000674
		48	5240	5,239.98921	0.00000206
		52	5260	5,259.94132	0.00001116
		60	5300	5,299.94714	0.00000997
		64	5320	5,319.94861	0.00000966
		100	5500	5,499.96442	0.00000647
		116	5580	5,579.97728	0.00000407
		140	5700	5,699.93513	0.00001138
		149	5745	5,744.93849	0.00001071
		157	5785	5,784.98680	0.00000228
		165	5825	5,824.93477	0.00001120

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25 °C	3.8V	36	5180	5,179.92689	0.00001411
		44	5220	5,219.92490	0.00001439
		48	5240	5,239.98972	0.00000196
		52	5260	5,259.98156	0.00000350
		60	5300	5,299.97287	0.00000512
		64	5320	5,319.94610	0.00001013
		100	5500	5,499.96941	0.00000556
		116	5580	5,579.96803	0.00000573
		140	5700	5,699.92098	0.00001386
		149	5745	5,744.91208	0.00001530
		157	5785	5,784.92892	0.00001229
		165	5825	5,824.98937	0.00000182
40 °C	4.37V	36	5180	5,179.91000	0.00001738
		44	5220	5,219.95564	0.00000850
		48	5240	5,239.96914	0.00000589
		52	5260	5,259.90622	0.00001783
		60	5300	5,299.95188	0.00000908
		64	5320	5,319.93508	0.00001220
		100	5500	5,499.93254	0.00001227
		116	5580	5,579.95039	0.00000889
		140	5700	5,699.91002	0.00001579
		149	5745	5,744.90097	0.00001724
		157	5785	5,784.93398	0.00001141
		165	5825	5,824.97115	0.00000495
	3.42V	36	5180	5,179.91278	0.00001684
		44	5220	5,219.94400	0.00001073
		48	5240	5,239.90568	0.00001800
		52	5260	5,259.95830	0.00000793
		60	5300	5,299.91181	0.00001664
		64	5320	5,319.95041	0.00000932
		100	5500	5,499.97172	0.00000514
		116	5580	5,579.90416	0.00001717
		140	5700	5,699.98724	0.00000224
		149	5745	5,744.92798	0.00001254
		157	5785	5,784.98197	0.00000312
		165	5825	5,824.96824	0.00000545

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Operation Mode	802.11 a	Test Date	2017.10.18
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	4.37V	36	5180	5,179.95148	0.00000937
		44	5220	5,219.98300	0.00000326
		48	5240	5,239.96625	0.00000644
		52	5260	5,259.92636	0.00001400
		60	5300	5,299.95500	0.00000849
		64	5320	5,319.96533	0.00000652
		100	5500	5,499.98416	0.00000288
		116	5580	5,579.98635	0.00000245
		140	5700	5,699.94285	0.00001003
		149	5745	5,744.97958	0.00000355
		157	5785	5,784.96720	0.00000567
		165	5825	5,824.92229	0.00001334
	3.42V	36	5180	5,179.95468	0.00000875
		44	5220	5,219.90402	0.00001839
		48	5240	5,239.92406	0.00001449
		52	5260	5,259.95090	0.00000933
		60	5300	5,299.91724	0.00001562
		64	5320	5,319.98391	0.00000302
		100	5500	5,499.95604	0.00000799
		116	5580	5,579.97801	0.00000394
		140	5700	5,699.92267	0.00001357
		149	5745	5,744.98037	0.00000342
		157	5785	5,784.97161	0.00000491
		165	5825	5,824.92659	0.00001260

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25 °C	3.8V	36	5180	5,179.94190	0.00001122
		44	5220	5,219.97028	0.00000569
		48	5240	5,239.90474	0.00001818
		52	5260	5,259.90689	0.00001770
		60	5300	5,299.93860	0.00001158
		64	5320	5,319.97917	0.00000391
		100	5500	5,499.97515	0.00000452
		116	5580	5,579.94386	0.00001006
		140	5700	5,699.98875	0.00000197
		149	5745	5,744.94484	0.00000960
		157	5785	5,784.96923	0.00000532
		165	5825	5,824.90322	0.00001661
40 °C	4.37V	36	5180	5,179.93533	0.00001248
		44	5220	5,219.98385	0.00000309
		48	5240	5,239.91807	0.00001563
		52	5260	5,259.94119	0.00001118
		60	5300	5,299.94325	0.00001071
		64	5320	5,319.96547	0.00000649
		100	5500	5,499.98931	0.00000194
		116	5580	5,579.93922	0.00001089
		140	5700	5,699.91626	0.00001469
		149	5745	5,744.98856	0.00000199
		157	5785	5,784.91211	0.00001519
		165	5825	5,824.95764	0.00000727
	3.42V	36	5180	5,179.94583	0.00001046
		44	5220	5,219.95550	0.00000852
		48	5240	5,239.97126	0.00000548
		52	5260	5,259.98640	0.00000259
		60	5300	5,299.97508	0.00000470
		64	5320	5,319.90473	0.00001791
		100	5500	5,499.91965	0.00001461
		116	5580	5,579.92465	0.00001350
		140	5700	5,699.92589	0.00001300
		149	5745	5,744.92745	0.00001263
		157	5785	5,784.92346	0.00001323
		165	5825	5,824.91559	0.00001449

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Operation Mode	802.11 n_HT40	Test Date	2017.10.18
Temperature	:23 °C	Test By	Henry
Humidity	:69 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	4.37V	38	5190	5,189.90934	0.00001747
		46	5230	5,229.97412	0.00000495
		54	5270	5,269.93962	0.00001146
		62	5310	5,309.98312	0.00000318
		102	5510	5,509.92284	0.00001400
		110	5550	5,549.94134	0.00001057
		134	5670	5,669.96034	0.00000699
		151	5755	5,754.90629	0.00001628
		159	5795	5,794.90846	0.00001580
	3.42V	38	5190	5,189.92865	0.00001375
		46	5230	5,229.93595	0.00001225
		54	5270	5,269.96265	0.00000709
		62	5310	5,309.96581	0.00000644
		102	5510	5,509.98834	0.00000212
		110	5550	5,549.98697	0.00000235
		134	5670	5,669.92223	0.00001372
		151	5755	5,754.93852	0.00001068
		159	5795	5,794.98376	0.00000280

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25 °C	3.8V	38	5190	5,190.02515	-0.00000485
		46	5230	5,230.00000	0.00000000
		54	5270	5,270.02515	-0.00000477
		62	5310	5,310.02515	-0.00000474
		102	5510	5,510.00000	0.00000000
		110	5550	5,550.00000	0.00000000
		134	5670	5,670.00000	0.00000000
		151	5755	5,755.00000	0.00000000
		159	5795	5,795.00000	0.00000000
40 °C	4.37V	38	5190	5,189.91692	0.00001601
		46	5230	5,229.95983	0.00000768
		54	5270	5,269.97133	0.00000544
		62	5310	5,309.90428	0.00001803
		102	5510	5,509.97643	0.00000428
		110	5550	5,549.94883	0.00000922
		134	5670	5,669.98941	0.00000187
		151	5755	5,754.95022	0.00000865
		159	5795	5,794.94270	0.00000989
	3.42V	38	5190	5,189.91011	0.00001732
		46	5230	5,229.98340	0.00000317
		54	5270	5,269.90831	0.00001740
		62	5310	5,309.90067	0.00001871
		102	5510	5,509.91209	0.00001595
		110	5550	5,549.92906	0.00001278
		134	5670	5,669.90818	0.00001619
		151	5755	5,754.91452	0.00001485
		159	5795	5,794.97554	0.00000422

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Operation Mode	802.11 n_HT40	Test Date	2017.10.18
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	4.37V	38	5190	5,189.95551	0.00000857
		46	5230	5,229.98550	0.00000277
		54	5270	5,269.93156	0.00001299
		62	5310	5,309.98424	0.00000297
		102	5510	5,509.90073	0.00001802
		110	5550	5,549.95676	0.00000779
		134	5670	5,669.94798	0.00000917
		151	5755	5,754.95013	0.00000867
		159	5795	5,794.90424	0.00001652
	3.42V	38	5190	5,189.94463	0.00001067
		46	5230	5,229.94873	0.00000980
		54	5270	5,269.90416	0.00001819
		62	5310	5,309.92532	0.00001406
		102	5510	5,509.95603	0.00000798
		110	5550	5,549.93566	0.00001159
		134	5670	5,669.91185	0.00001555
		151	5755	5,754.95623	0.00000761
		159	5795	5,794.93193	0.00001175

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25 °C	3.8V	38	5190	5,189.96308	0.00000711
		46	5230	5,229.90669	0.00001784
		54	5270	5,269.91091	0.00001690
		62	5310	5,309.97302	0.00000508
		102	5510	5,509.94129	0.00001066
		110	5550	5,549.91321	0.00001564
		134	5670	5,669.96030	0.00000700
		151	5755	5,754.95186	0.00000837
		159	5795	5,794.93486	0.00001124
40 °C	4.37V	38	5190	5,189.93705	0.00001213
		46	5230	5,229.90670	0.00001784
		54	5270	5,269.98927	0.00000204
		62	5310	5,309.91019	0.00001691
		102	5510	5,509.92660	0.00001332
		110	5550	5,549.92127	0.00001418
		134	5670	5,669.93044	0.00001227
		151	5755	5,754.94816	0.00000901
		159	5795	5,794.97505	0.00000430
	3.42V	38	5190	5,189.97796	0.00000425
		46	5230	5,229.93956	0.00001156
		54	5270	5,269.94234	0.00001094
		62	5310	5,309.92796	0.00001357
		102	5510	5,509.93927	0.00001102
		110	5550	5,549.93700	0.00001135
		134	5670	5,669.91473	0.00001504
		151	5755	5,754.94486	0.00000958
		159	5795	5,794.98404	0.00000275

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Operation Mode	802.11 n_HT40	Test Date	2017.10.18
Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	4.37V	38	5190	5,189.98057	0.00000374
		46	5230	5,229.92753	0.00001386
		54	5270	5,269.94241	0.00001093
		62	5310	5,309.94846	0.00000971
		102	5510	5,509.94302	0.00001034
		110	5550	5,549.91262	0.00001574
		134	5670	5,669.90594	0.00001659
		151	5755	5,754.94848	0.00000895
		159	5795	5,794.95600	0.00000759
	3.42V	38	5190	5,189.94582	0.00001044
		46	5230	5,229.91324	0.00001659
		54	5270	5,269.96986	0.00000572
		62	5310	5,309.90416	0.00001805
		102	5510	5,509.94618	0.00000977
		110	5550	5,549.94284	0.00001030
		134	5670	5,669.93841	0.00001086
		151	5755	5,754.98412	0.00000276
		159	5795	5,794.93654	0.00001095

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25 °C	3.8V	38	5190	5,189.91382	0.00001661
		46	5230	5,229.95721	0.00000818
		54	5270	5,269.90354	0.00001830
		62	5310	5,309.92753	0.00001365
		102	5510	5,509.91675	0.00001511
		110	5550	5,549.97585	0.00000435
		134	5670	5,669.93487	0.00001149
		151	5755	5,754.93898	0.00001060
		159	5795	5,794.91425	0.00001480
40 °C	4.37V	38	5190	5,189.98552	0.00000279
		46	5230	5,229.97631	0.00000453
		54	5270	5,269.94385	0.00001065
		62	5310	5,309.91582	0.00001585
		102	5510	5,509.97046	0.00000536
		110	5550	5,549.90184	0.00001769
		134	5670	5,669.94262	0.00001012
		151	5755	5,754.96133	0.00000672
		159	5795	5,794.95197	0.00000829
	3.42V	38	5190	5,189.93461	0.00001260
		46	5230	5,229.94658	0.00001021
		54	5270	5,269.91958	0.00001526
		62	5310	5,309.90346	0.00001818
		102	5510	5,509.93563	0.00001168
		110	5550	5,549.97842	0.00000389
		134	5670	5,669.98369	0.00000288
		151	5755	5,754.91785	0.00001427
		159	5795	5,794.91066	0.00001542

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Temperature	:23 °C	Test By	Henry
Humidity	:68 %		

Test Temp.	Test Voltage	Channel	Measured Frequency (MHz)	Spectrum Frequency (MHz)	ΔFrequency (MHz)
0 °C	4.37V	38	5190	5,189.90897	0.00001754
		46	5230	5,229.93863	0.00001173
		54	5270	5,269.98765	0.00000234
		62	5310	5,309.95572	0.00000834
		102	5510	5,509.92936	0.00001282
		110	5550	5,549.93137	0.00001237
		134	5670	5,669.90760	0.00001630
		151	5755	5,754.96317	0.00000640
		159	5795	5,794.91982	0.00001384
	3.42V	38	5190	5,189.95923	0.00000786
		46	5230	5,229.95506	0.00000859
		54	5270	5,269.94271	0.00001087
		62	5310	5,309.96496	0.00000660
		102	5510	5,509.94176	0.00001057
		110	5550	5,549.97969	0.00000366
		134	5670	5,669.90192	0.00001730
		151	5755	5,754.94813	0.00000901
		159	5795	5,794.98527	0.00000254

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25 °C	3.8V	38	5190	5,189.95768	0.00000815
		46	5230	5,229.90387	0.00001838
		54	5270	5,269.93557	0.00001223
		62	5310	5,309.98535	0.00000276
		102	5510	5,509.98384	0.00000293
		110	5550	5,549.93992	0.00001082
		134	5670	5,669.91007	0.00001586
		151	5755	5,754.92018	0.00001387
		159	5795	5,794.93082	0.00001194
40 °C	4.37V	38	5190	5,189.95265	0.00000912
		46	5230	5,229.94526	0.00001047
		54	5270	5,269.90113	0.00001876
		62	5310	5,309.98713	0.00000242
		102	5510	5,509.92825	0.00001302
		110	5550	5,549.95443	0.00000821
		134	5670	5,669.95372	0.00000816
		151	5755	5,754.90889	0.00001583
		159	5795	5,794.92943	0.00001218
	3.42V	38	5190	5,189.94088	0.00001139
		46	5230	5,229.97494	0.00000479
		54	5270	5,269.94318	0.00001078
		62	5310	5,309.94481	0.00001039
		102	5510	5,509.97380	0.00000476
		110	5550	5,549.96901	0.00000558
		134	5670	5,669.92643	0.00001298
		151	5755	5,754.90258	0.00001693
		159	5795	5,794.98096	0.00000329

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14 ANTENNA REQUIREMENT

14.1 Standard Applicable

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.

According to §15.407, If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

14.2 Antenna Connected Construction

PCB antenna designs are used.

The antenna is designed with permanent attached and no consideration of replacement. Please see EUT photo and antenna spec. for details.

~ End of Report ~

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