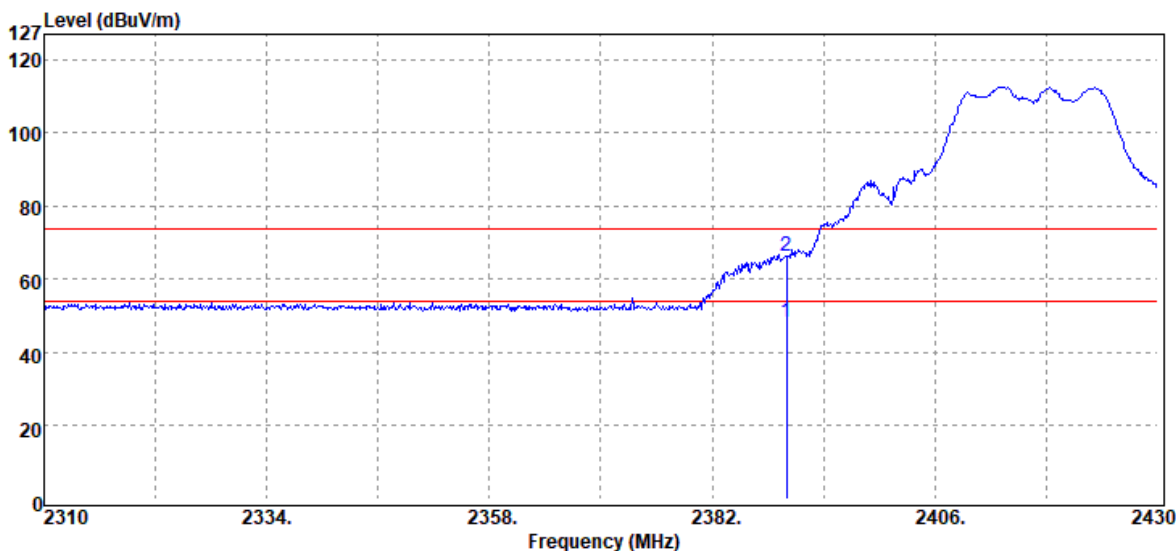


Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2417 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	47.89	0.24	48.13	54.00	-5.87
2390.00	Peak	66.33	0.24	66.57	74.00	-7.43

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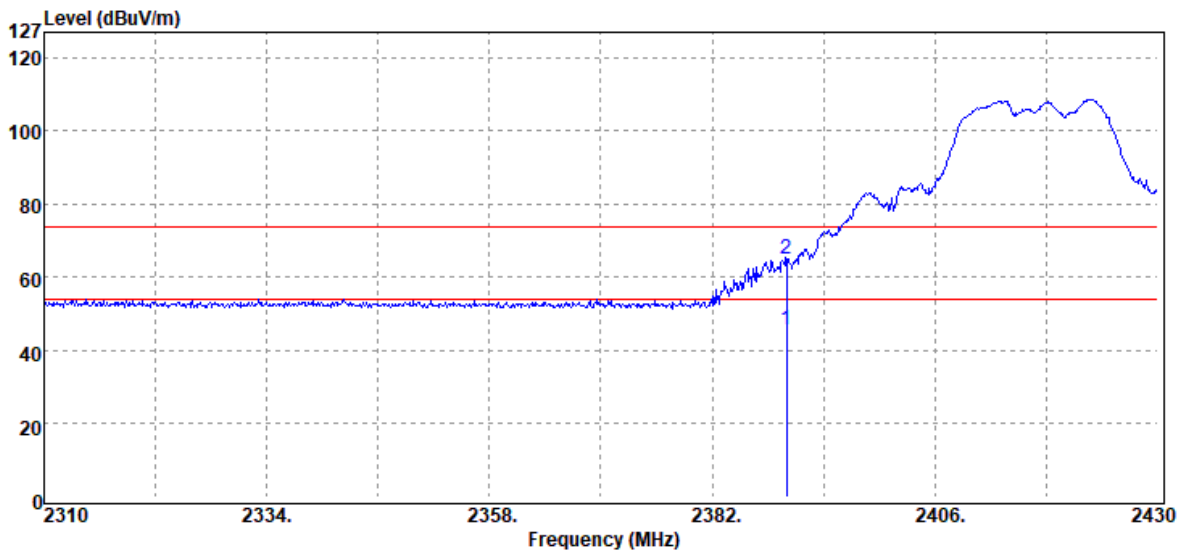
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2417 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	45.42	0.24	45.66	54.00	-8.34
2390.00	Peak	64.88	0.24	65.12	74.00	-8.88

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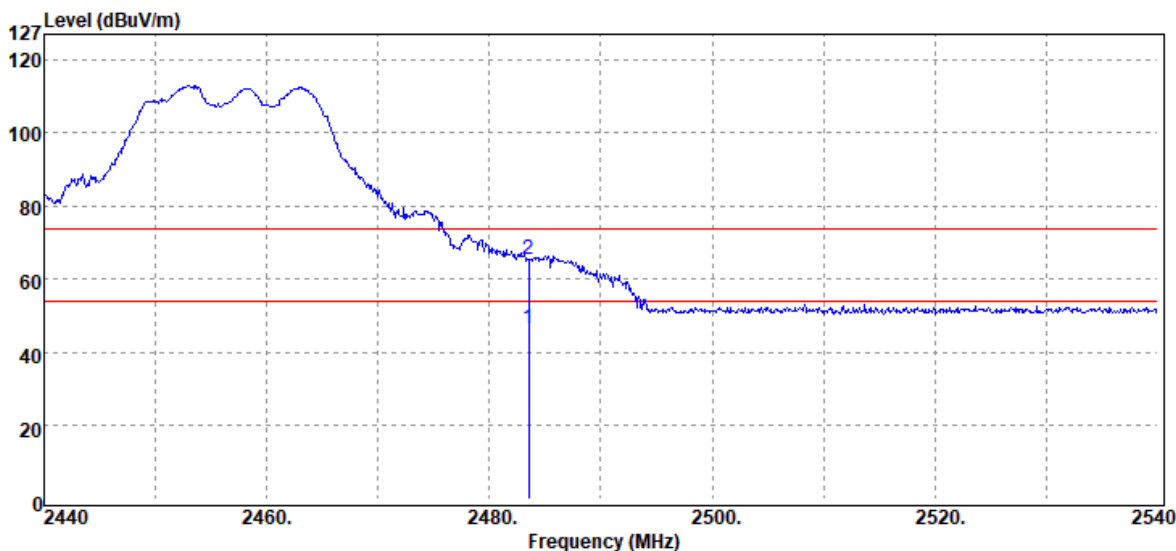
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2457 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	46.96	-0.17	46.79	54.00	-7.21
2483.50	Peak	65.65	-0.17	65.48	74.00	-8.52

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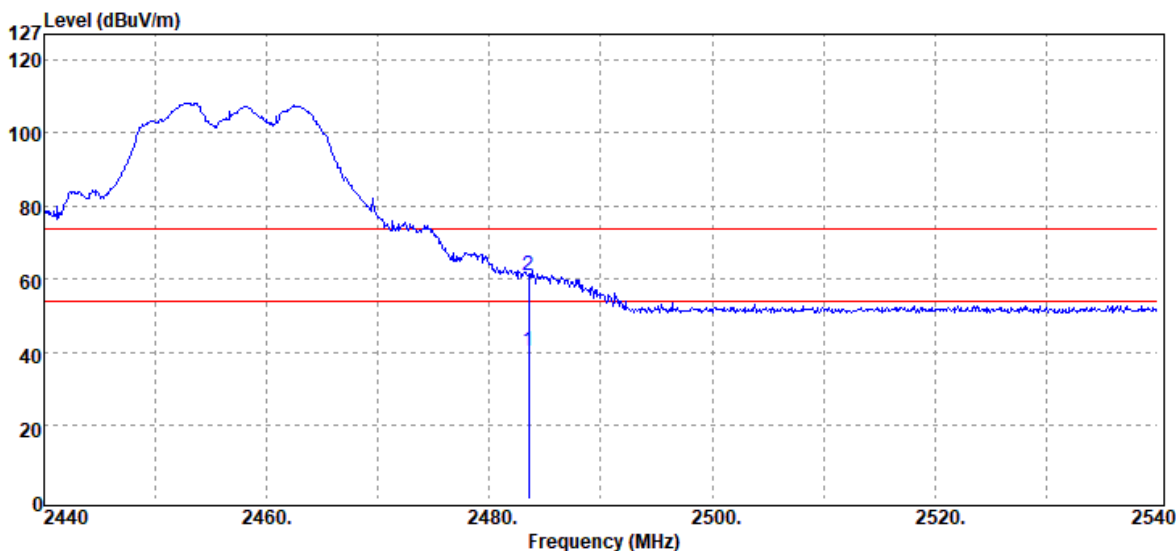
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2457 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	40.64	-0.17	40.47	54.00	-13.53
2483.50	Peak	61.20	-0.17	61.03	74.00	-12.97

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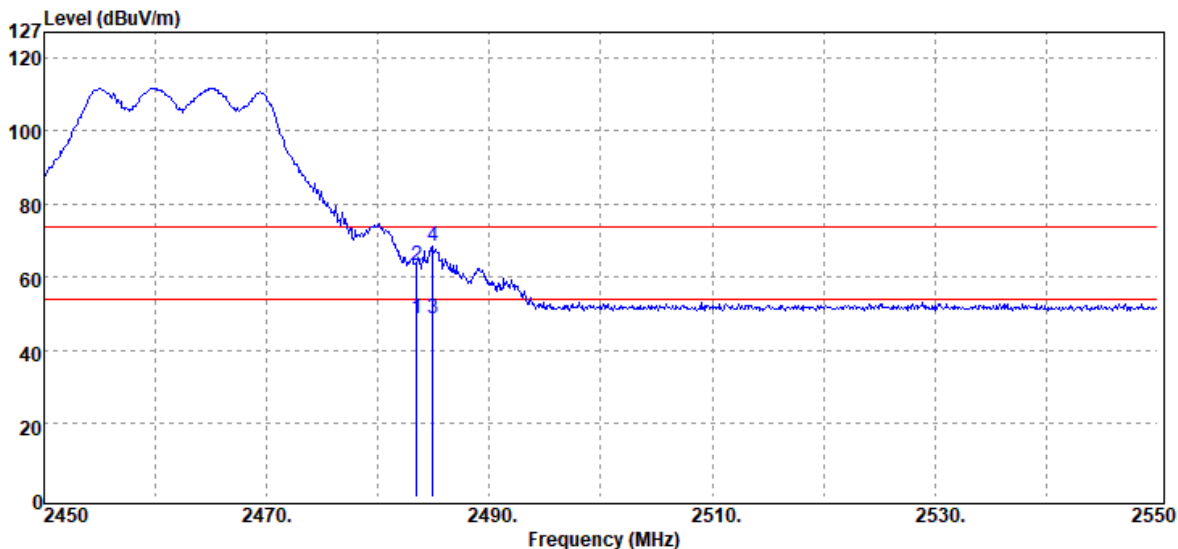
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	48.74	-0.17	48.57	54.00	-5.43
2483.50	Peak	63.36	-0.17	63.19	74.00	-10.81
2484.90	Average	49.06	-0.18	48.88	54.00	-5.12
2484.90	Peak	68.58	-0.18	68.40	74.00	-5.60

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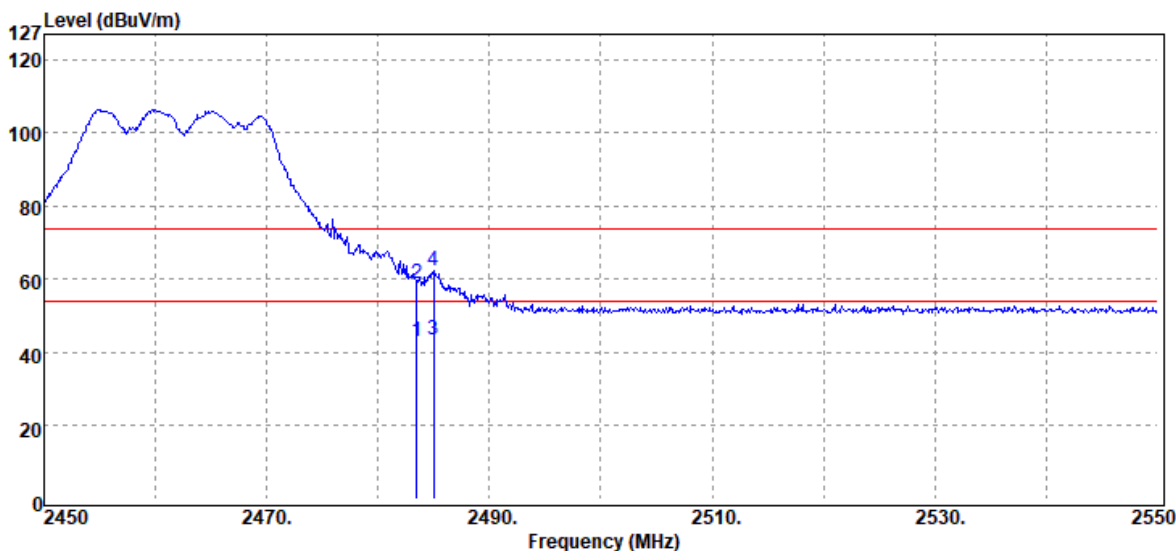
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	43.45	-0.17	43.28	54.00	-10.72
2483.50	Peak	58.95	-0.17	58.78	74.00	-15.22
2485.00	Average	43.64	-0.18	43.46	54.00	-10.54
2485.00	Peak	62.65	-0.18	62.47	74.00	-11.53

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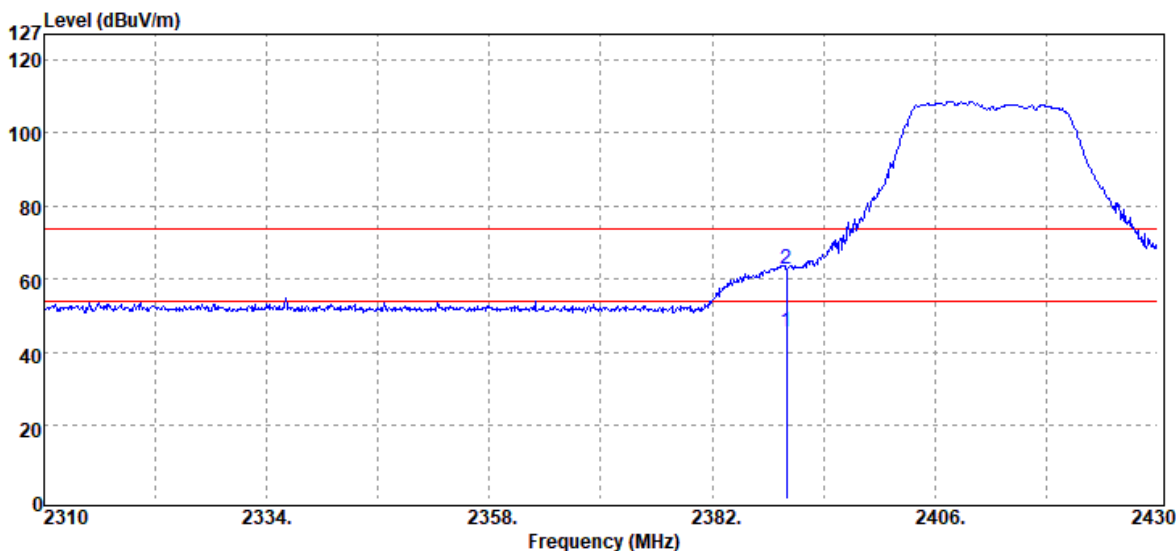
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	Average	45.56	0.24	45.80	54.00	-8.20
2390.00	Peak	62.79	0.24	63.03	74.00	-10.97

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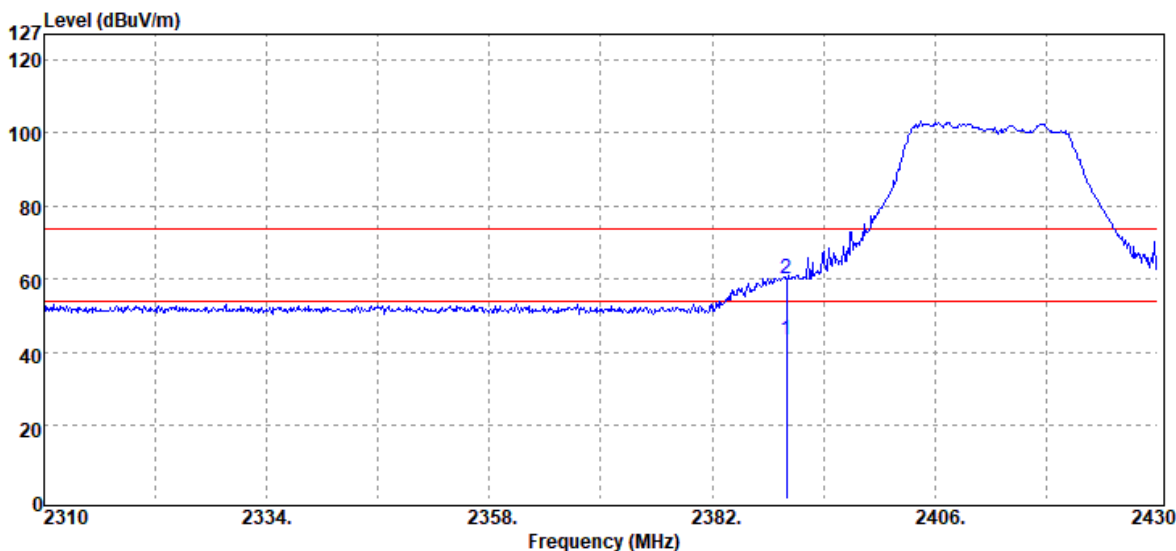
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2412 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	43.12	0.24	43.36	54.00	-10.64
2390.00	Peak	59.99	0.24	60.23	74.00	-13.77

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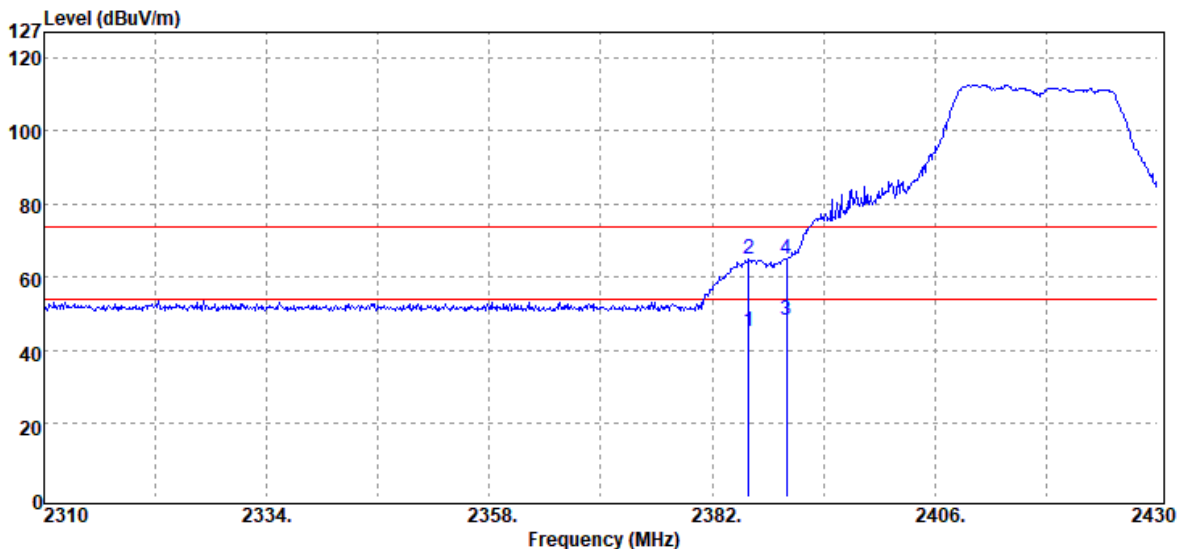
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2417 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2385.96	Average	45.00	0.26	45.26	54.00	-8.74
2385.96	Peak	64.82	0.26	65.08	74.00	-8.92
2390.00	Average	48.22	0.24	48.46	54.00	-5.54
2390.00	Peak	65.02	0.24	65.26	74.00	-8.74

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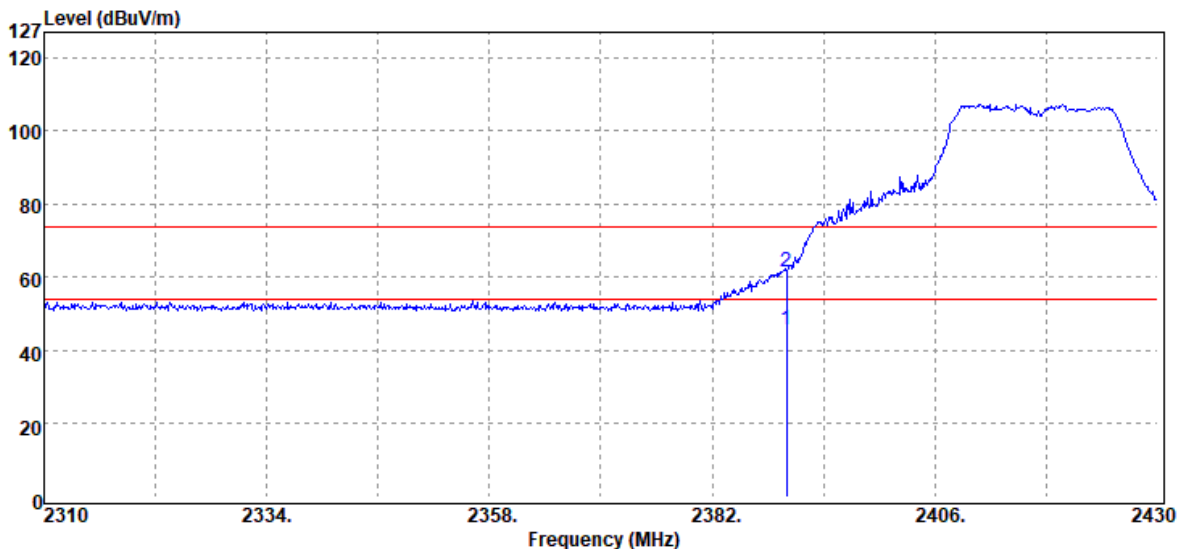
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2417 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	Average	45.45	0.24	45.69	54.00	-8.31
2390.00	Peak	61.32	0.24	61.56	74.00	-12.44

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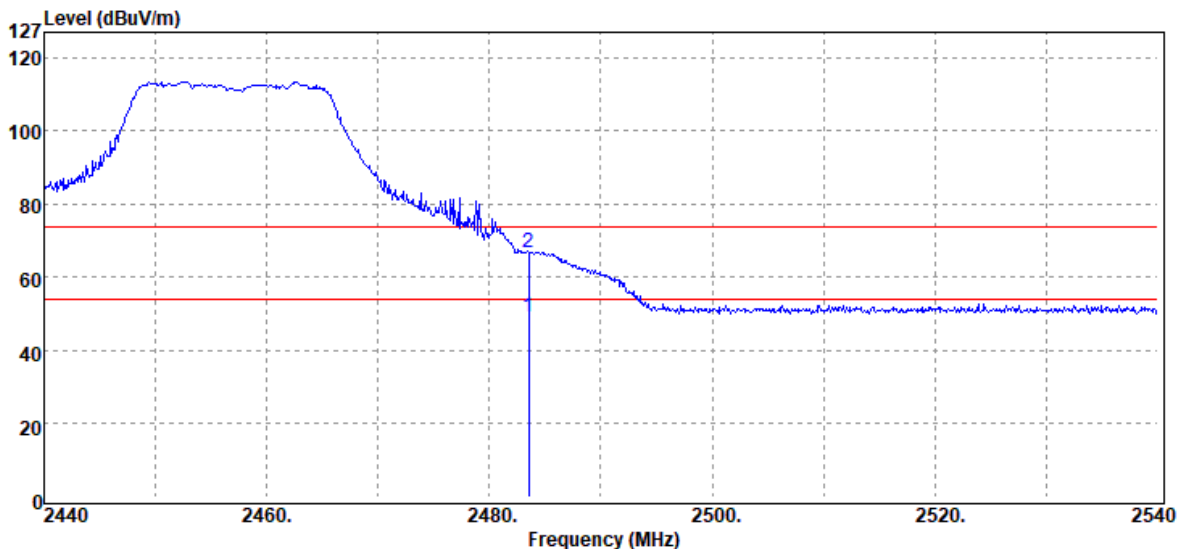
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2457 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	49.41	-0.17	49.24	54.00	-4.76
2483.50	Peak	67.08	-0.17	66.91	74.00	-7.09

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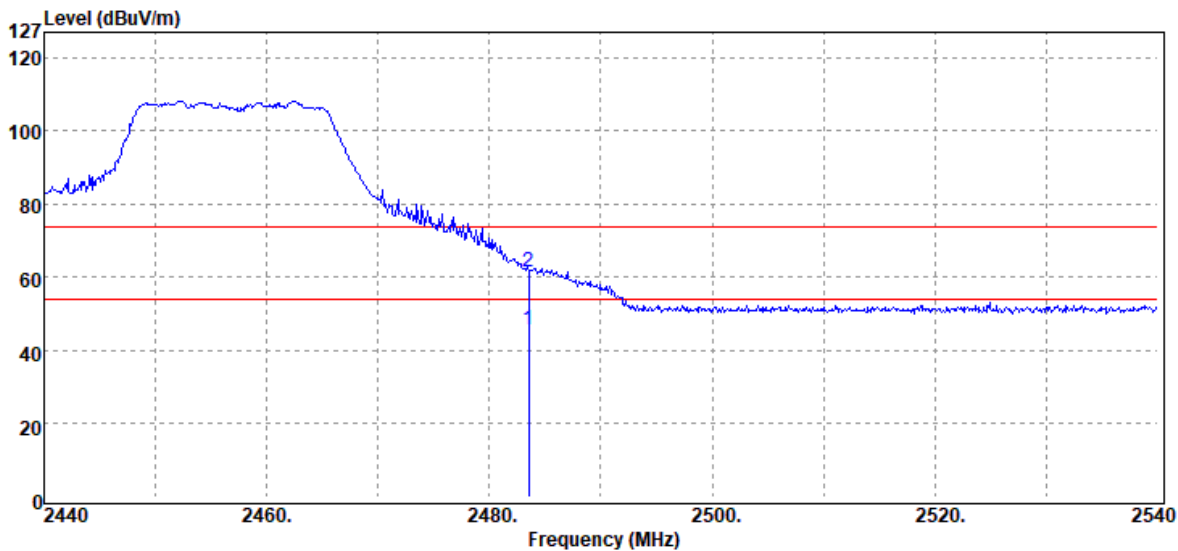
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2457 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	46.08	-0.17	45.91	54.00	-8.09
2483.50	Peak	61.84	-0.17	61.67	74.00	-12.33

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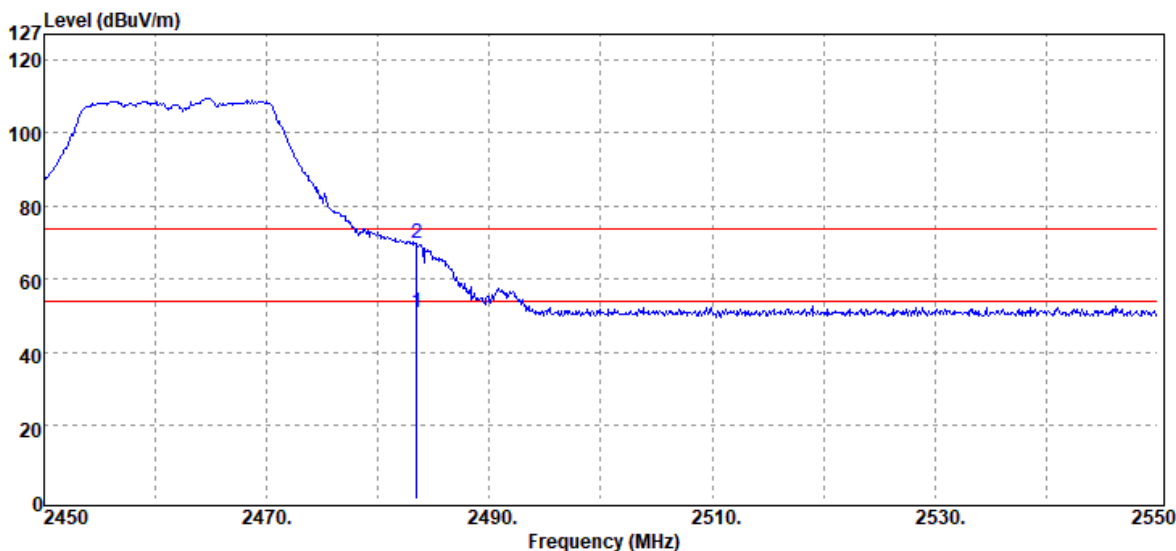
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	51.35	-0.17	51.18	54.00	-2.82
2483.50	Peak	70.10	-0.17	69.93	74.00	-4.07

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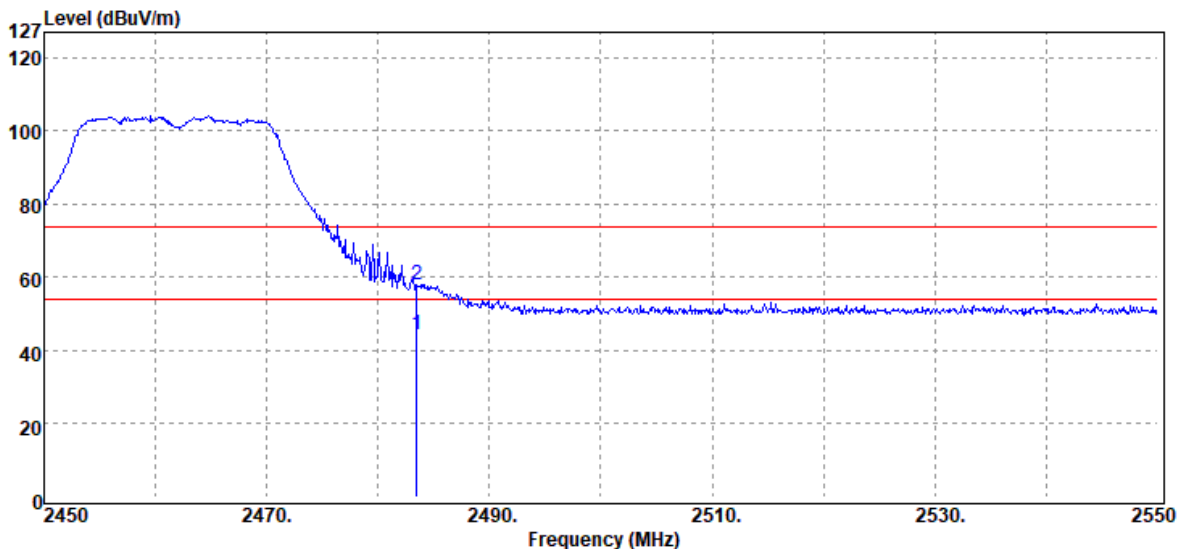
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2462 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	44.45	-0.17	44.28	54.00	-9.72
2483.50	Peak	58.19	-0.17	58.02	74.00	-15.98

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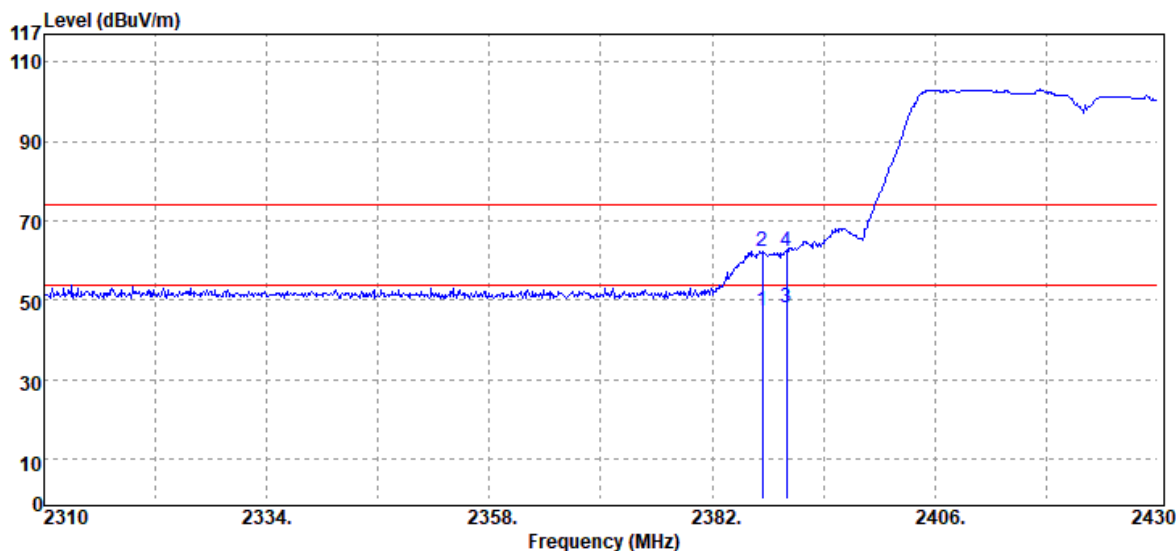
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2387.40	Average	47.09	0.25	47.34	54.00	-6.66
2387.40	Peak	62.22	0.25	62.47	74.00	-11.53
2390.00	Average	48.03	0.24	48.27	54.00	-5.73
2390.00	Peak	61.94	0.24	62.18	74.00	-11.82

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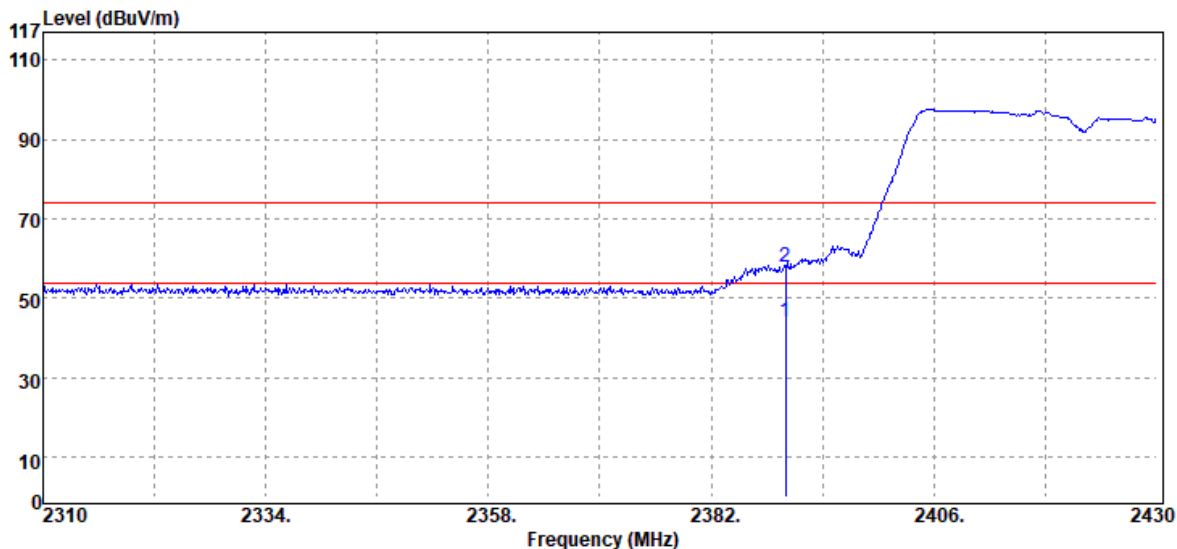
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2422 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	43.80	0.24	44.04	54.00	-9.96
2390.00	Peak	57.59	0.24	57.83	74.00	-16.17

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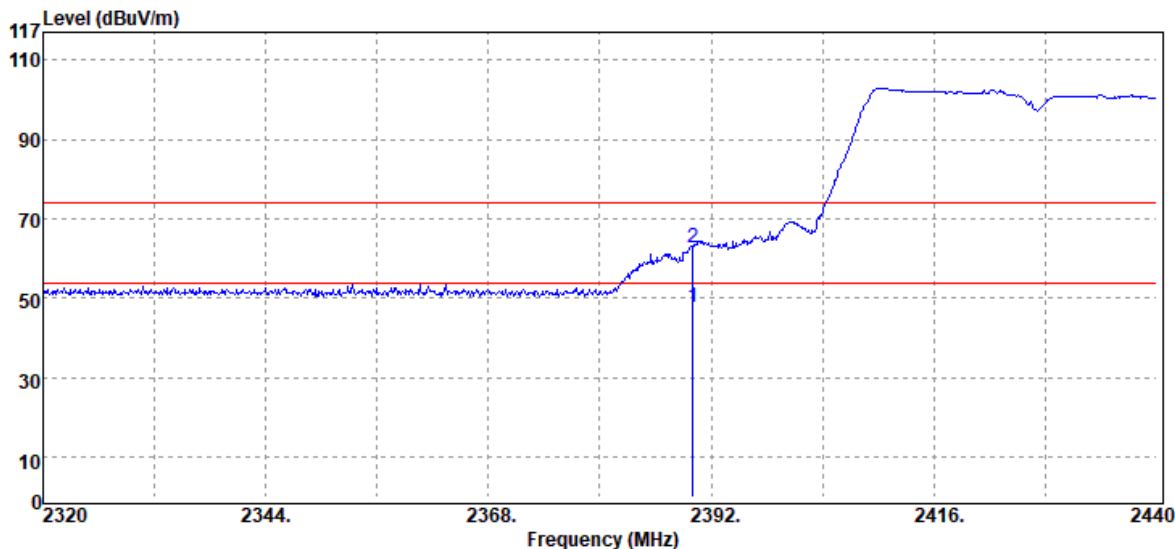
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2427 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2390.00	Average	47.64	0.24	47.88	54.00	-6.12
2390.00	Peak	62.63	0.24	62.87	74.00	-11.13

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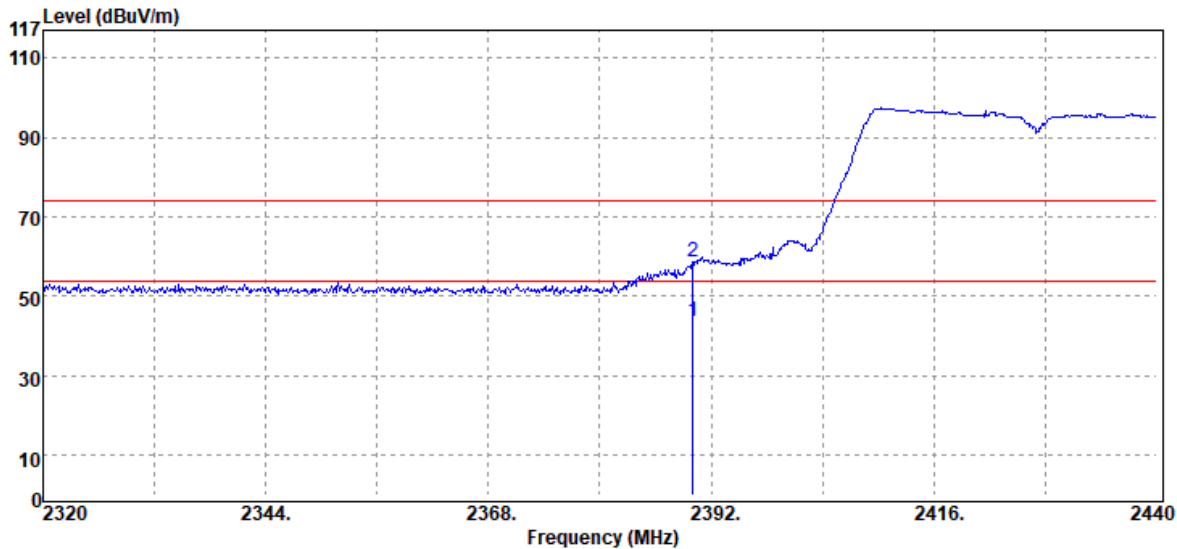
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2427 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2390.00	Average	43.38	0.24	43.62	54.00	-10.38
2390.00	Peak	58.44	0.24	58.68	74.00	-15.32

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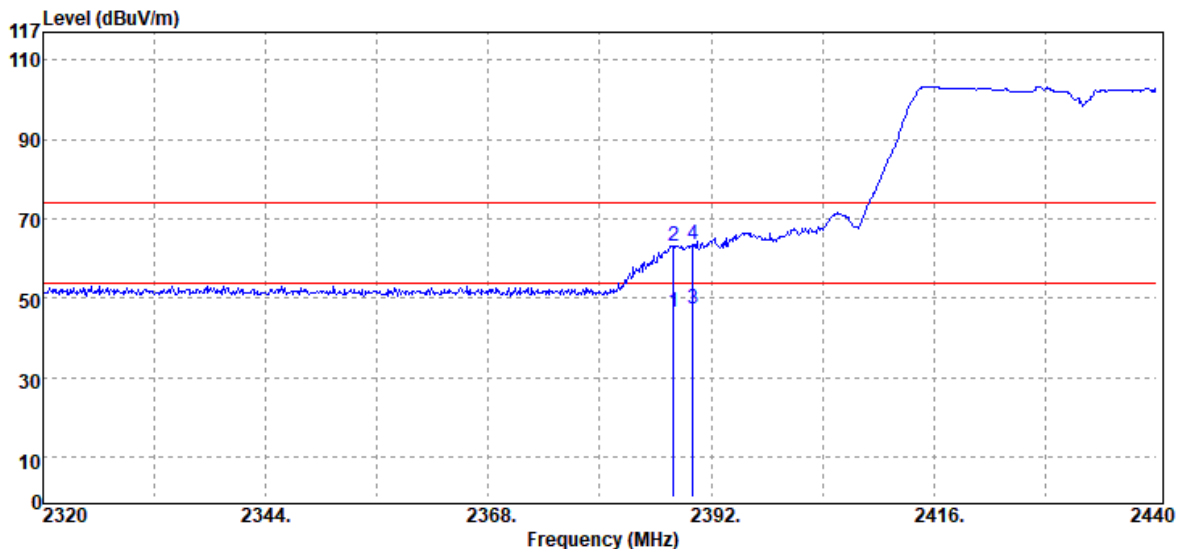
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2432 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2387.92	Average	46.20	0.25	46.45	54.00	-7.55
2387.92	Peak	63.09	0.25	63.34	74.00	-10.66
2390.00	Average	47.24	0.24	47.48	54.00	-6.52
2390.00	Peak	63.22	0.24	63.46	74.00	-10.54

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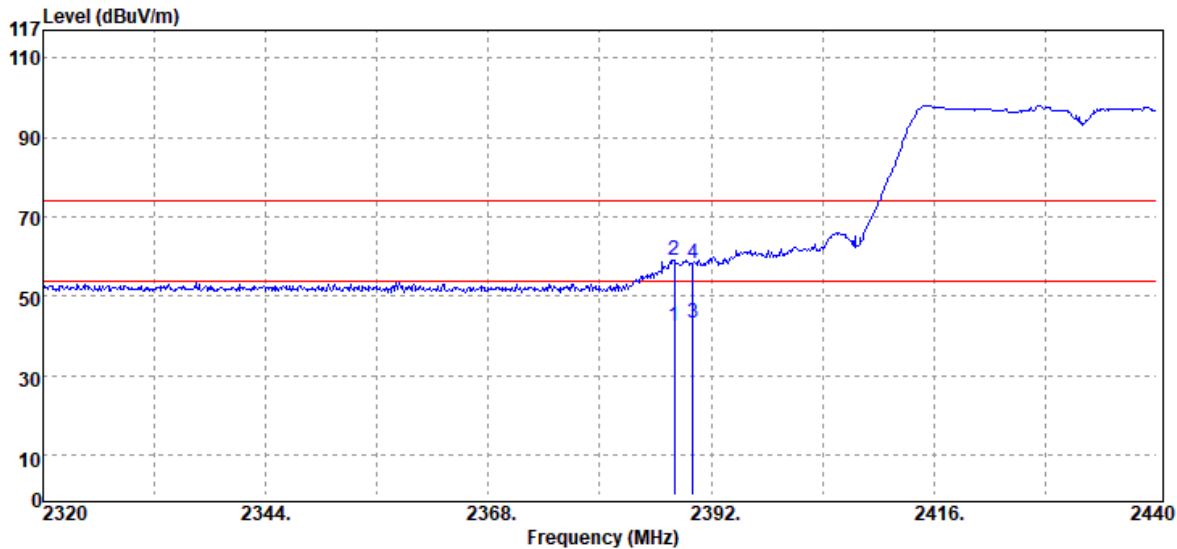
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2432 MHz
Test Mode :Bandedge CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2388.04	Average	42.33	0.25	42.58	54.00	-11.42
2388.04	Peak	58.94	0.25	59.19	74.00	-14.81
2390.00	Average	42.92	0.24	43.16	54.00	-10.84
2390.00	Peak	58.09	0.24	58.33	74.00	-15.67

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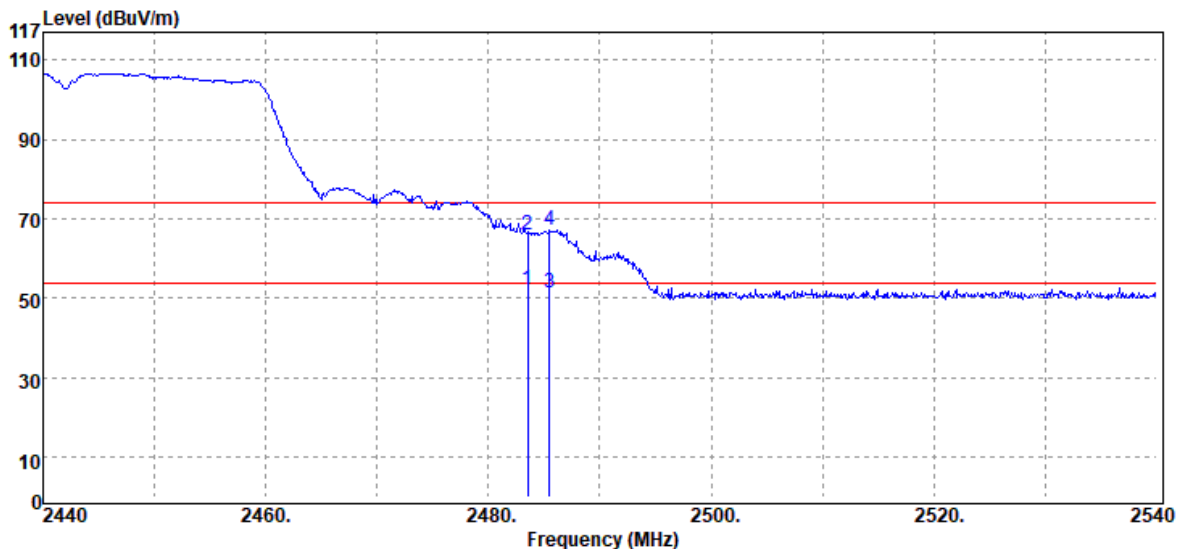
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2442 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	52.24	-0.17	52.07	54.00	-1.93
2483.50	Peak	66.15	-0.17	65.98	74.00	-8.02
2485.50	Average	51.54	-0.18	51.36	54.00	-2.64
2485.50	Peak	67.48	-0.18	67.30	74.00	-6.70

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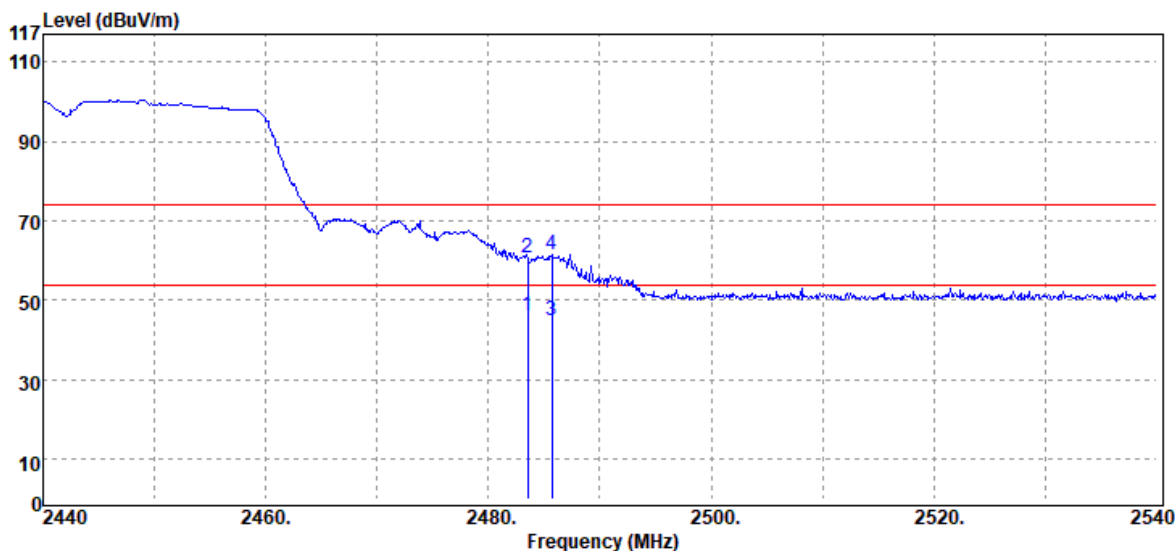
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2442 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	46.34	-0.17	46.17	54.00	-7.83
2483.50	Peak	61.07	-0.17	60.90	74.00	-13.10
2485.70	Average	45.31	-0.18	45.13	54.00	-8.87
2485.70	Peak	61.76	-0.18	61.58	74.00	-12.42

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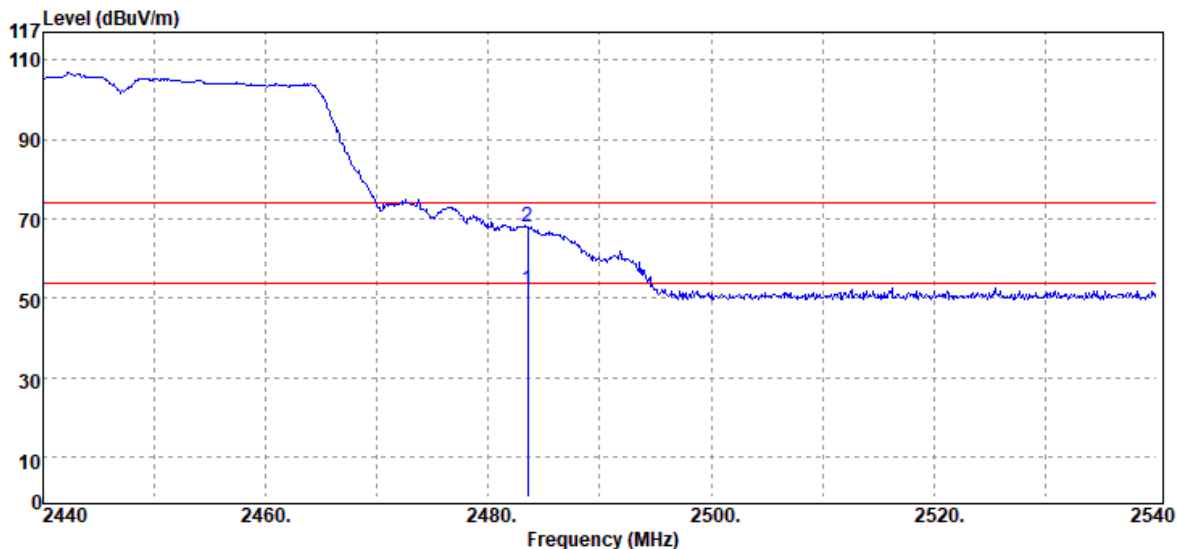
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
2483.50	Average	52.31	-0.17	52.14	54.00	-1.86
2483.50	Peak	68.38	-0.17	68.21	74.00	-5.79

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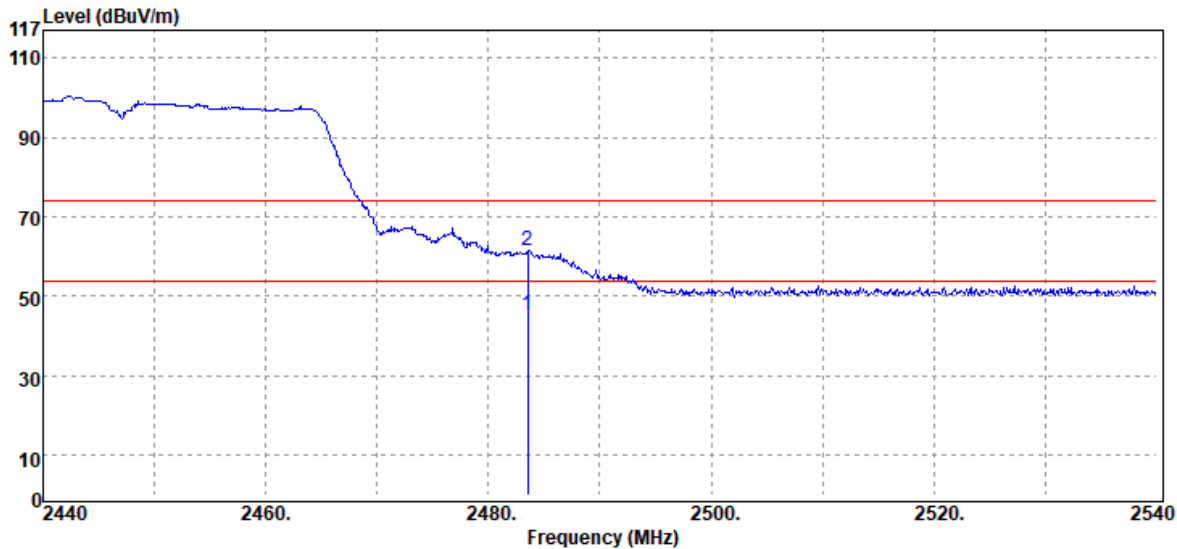
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2447 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	45.64	-0.17	45.47	54.00	-8.53
2483.50	Peak	61.56	-0.17	61.39	74.00	-12.61

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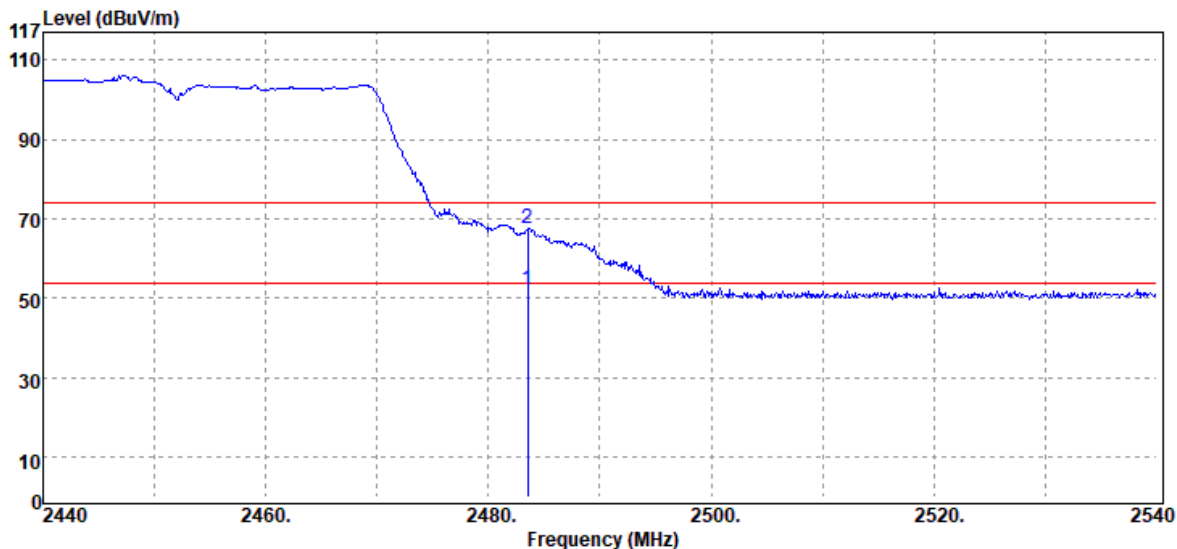
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2452 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	52.40	-0.17	52.23	54.00	-1.77
2483.50	Peak	67.64	-0.17	67.47	74.00	-6.53

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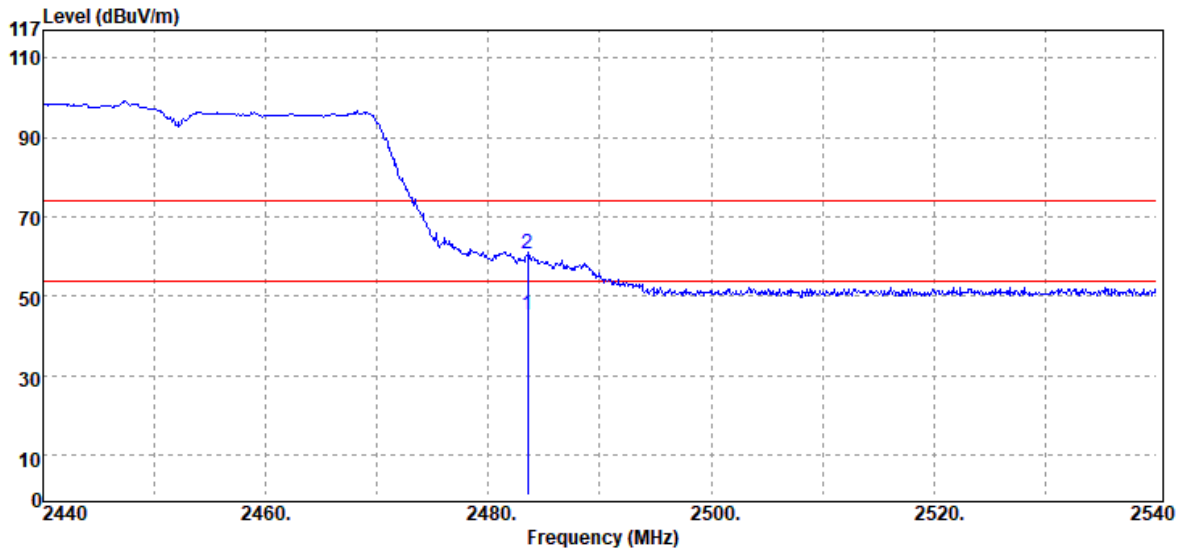
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2452 MHz
Test Mode :Bandedge CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
2483.50	Average	45.55	-0.17	45.38	54.00	-8.62
2483.50	Peak	61.02	-0.17	60.85	74.00	-13.15

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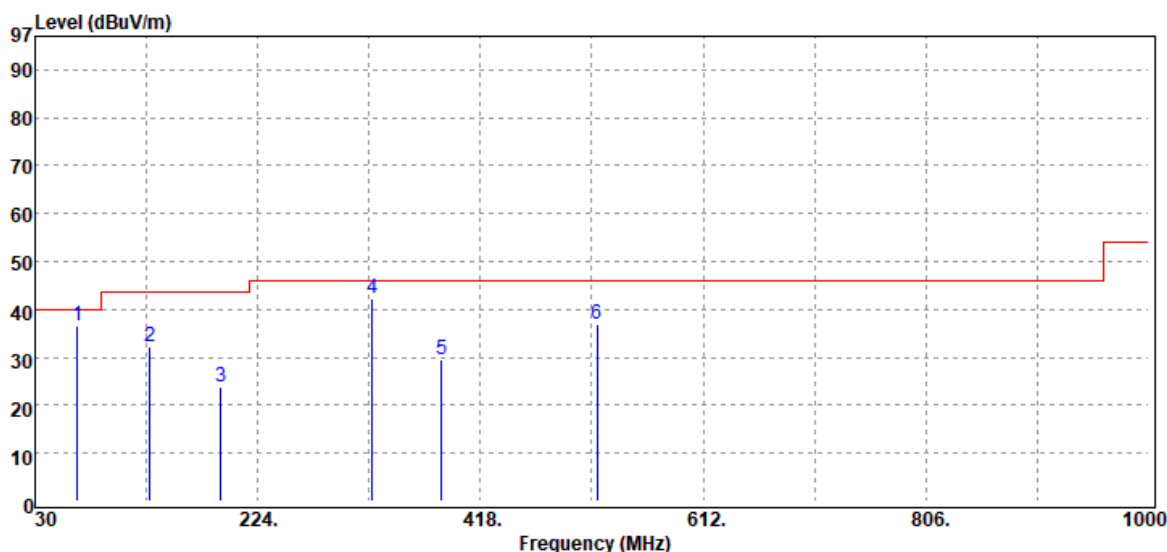
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11.7.2 Below 1GHz Worst-Case Emission:

External Antenna (Type: Dipole Antenna, Model no: WTS2450)

Report Number	:ER/2019/C0047	Test Date	:2019-11-28
Operation Mode	:802.11g	Temp./Humi.	:23.7/57
Test Channel	:2437 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Mid	Engineer	:Kane
EUT Pol	:E2 Plane		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
66.86	QP	46.12	-9.41	36.71	40.00	-3.29
129.91	Peak	41.13	-9.00	32.13	43.50	-11.37
191.99	Peak	33.40	-9.47	23.93	43.50	-19.57
323.91	Peak	47.57	-5.30	42.27	46.00	-3.73
384.05	Peak	33.75	-4.30	29.45	46.00	-16.55
519.85	Peak	38.80	-1.99	36.81	46.00	-9.19

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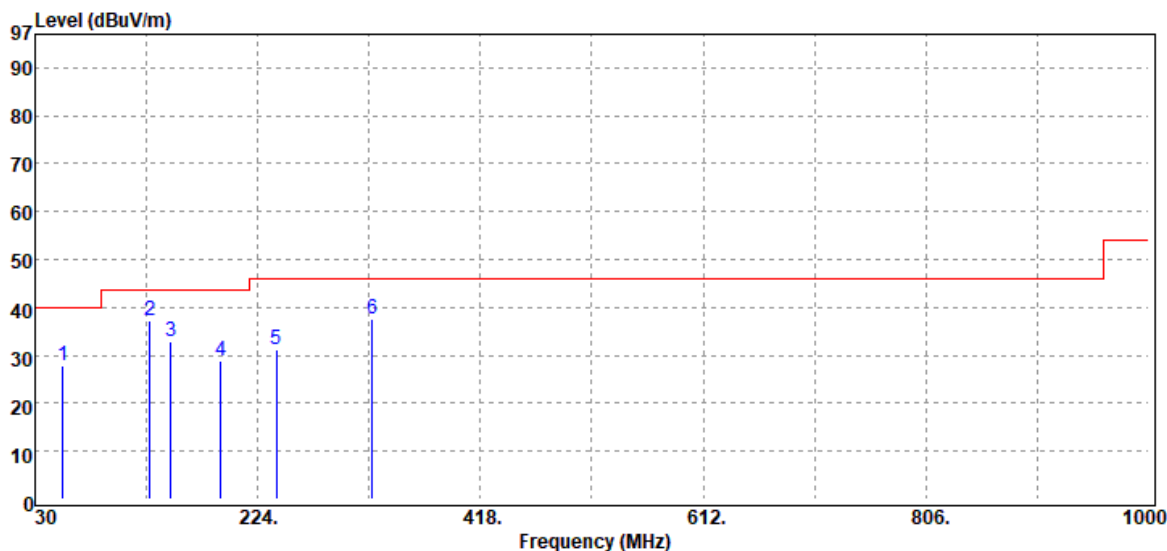
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :HORIZONTAL
Engineer :Kane


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
54.25	Peak	35.80	-7.83	27.97	40.00	-12.03
129.91	Peak	46.27	-9.00	37.27	43.50	-6.23
148.34	Peak	39.97	-7.04	32.93	43.50	-10.57
191.99	Peak	38.39	-9.47	28.92	43.50	-14.58
240.49	Peak	39.47	-8.09	31.38	46.00	-14.62
323.91	Peak	42.74	-5.30	37.44	46.00	-8.56

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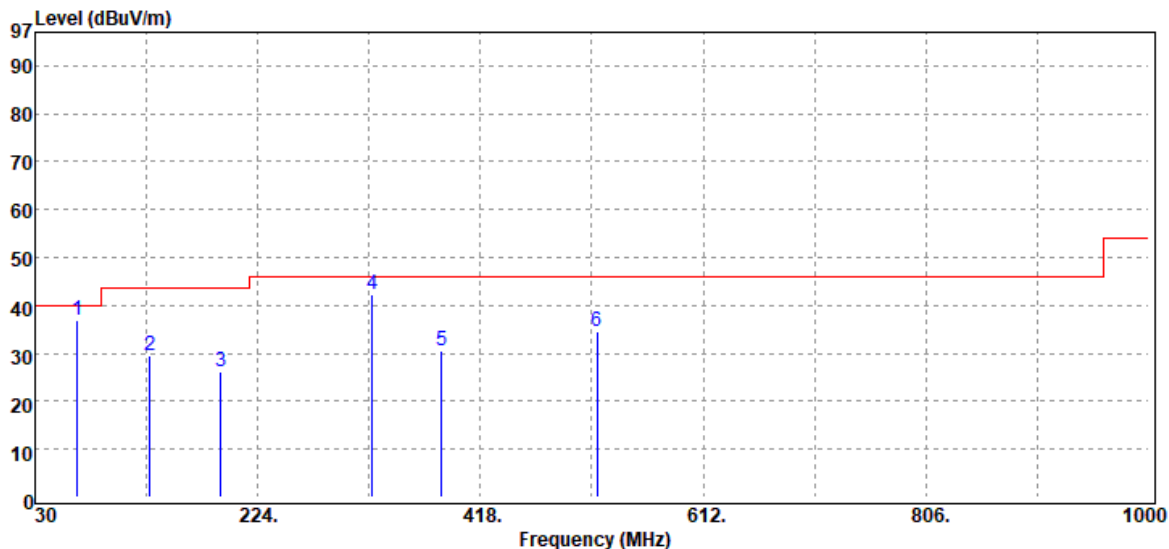
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
66.86	QP	46.33	-9.41	36.92	40.00	-3.08
129.91	Peak	38.49	-9.00	29.49	43.50	-14.01
191.99	Peak	35.67	-9.47	26.20	43.50	-17.30
323.91	Peak	47.75	-5.30	42.45	46.00	-3.55
384.05	Peak	34.85	-4.30	30.55	46.00	-15.45
519.85	Peak	36.63	-1.99	34.64	46.00	-11.36

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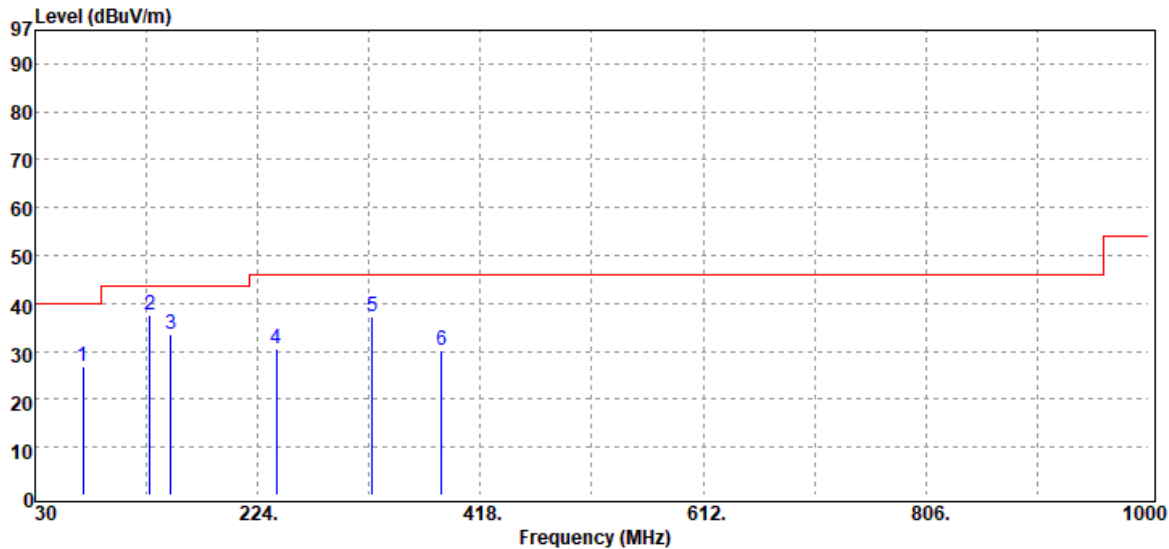
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
71.71	Peak	37.18	-10.40	26.78	40.00	-13.22
129.91	Peak	46.55	-9.00	37.55	43.50	-5.95
148.34	Peak	40.48	-7.04	33.44	43.50	-10.06
240.49	Peak	38.47	-8.09	30.38	46.00	-15.62
323.91	Peak	42.41	-5.30	37.11	46.00	-8.89
384.05	Peak	34.56	-4.30	30.26	46.00	-15.74

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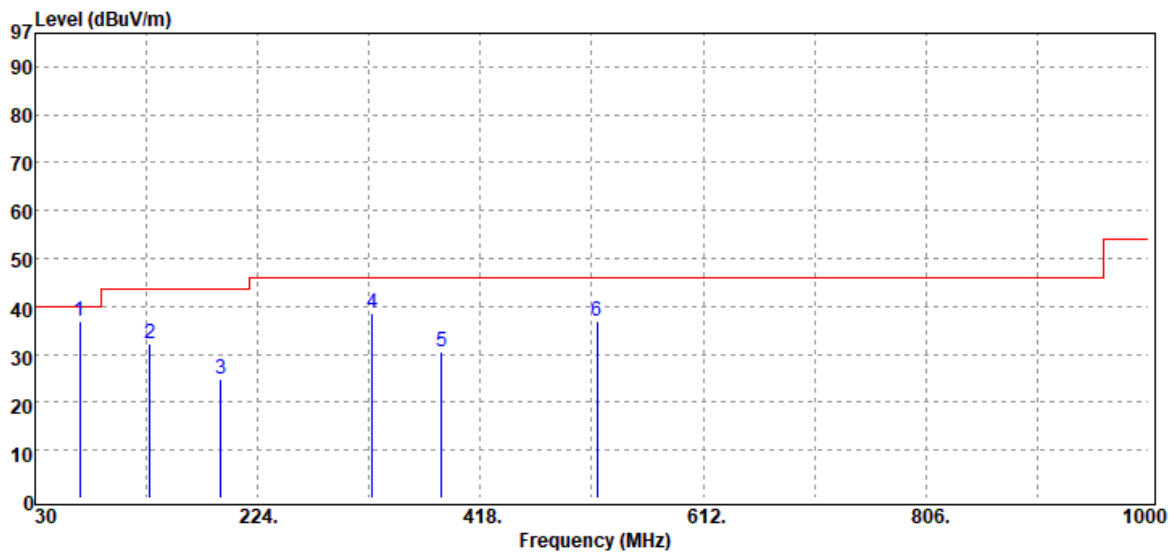
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Internal Antenna

Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBuV	Factor dB	Actual FS dBuV/m	Limit @3m dBuV/m	Margin dB
68.80	QP	46.72	-9.82	36.90	40.00	-3.10
129.91	Peak	41.11	-9.00	32.11	43.50	-11.39
191.99	Peak	34.18	-9.47	24.71	43.50	-18.79
323.91	Peak	43.86	-5.30	38.56	46.00	-7.44
384.05	Peak	34.77	-4.30	30.47	46.00	-15.53
519.85	Peak	38.83	-1.99	36.84	46.00	-9.16

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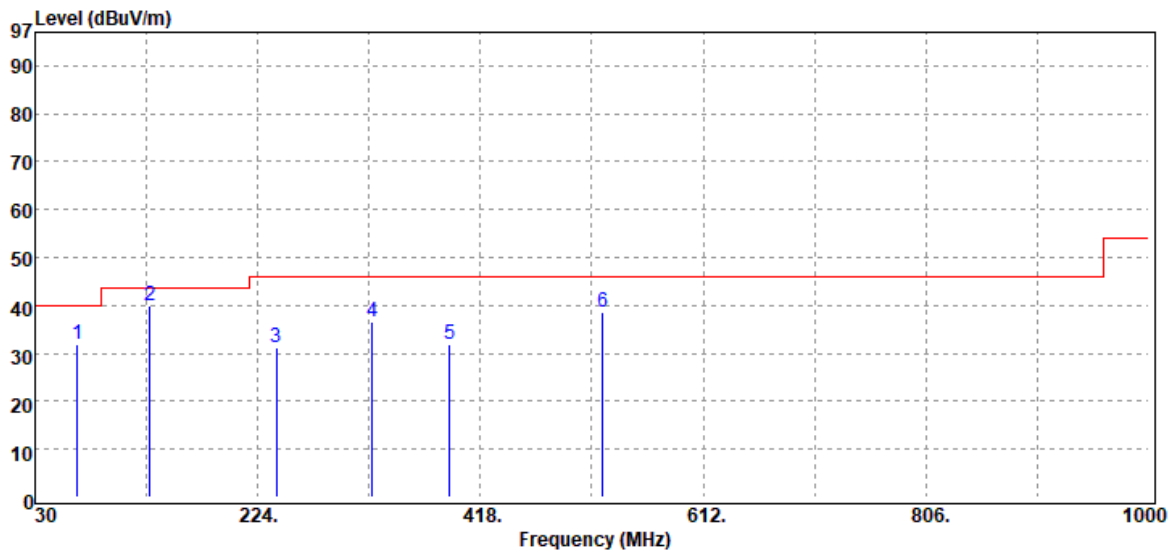
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
66.86	Peak	41.38	-9.41	31.97	40.00	-8.03
129.91	Peak	48.82	-9.00	39.82	43.50	-3.68
240.49	Peak	39.22	-8.09	31.13	46.00	-14.87
323.91	Peak	41.89	-5.30	36.59	46.00	-9.41
390.84	Peak	36.15	-4.17	31.98	46.00	-14.02
524.70	Peak	40.84	-2.08	38.76	46.00	-7.24

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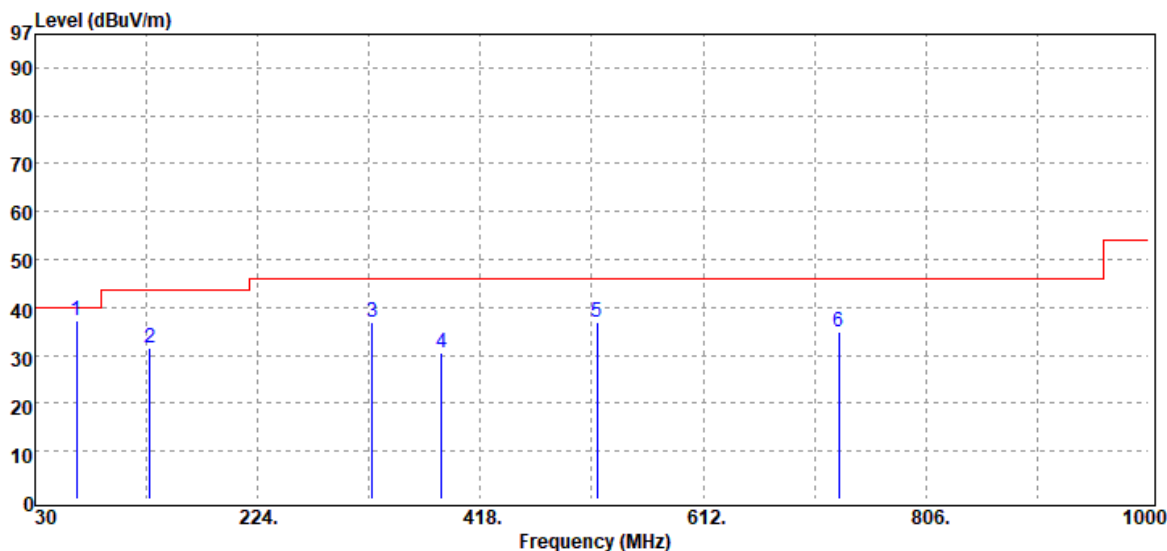
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
65.89	QP	46.56	-9.31	37.25	40.00	-2.75
129.91	Peak	40.71	-9.00	31.71	43.50	-11.79
323.91	Peak	42.10	-5.30	36.80	46.00	-9.20
384.05	Peak	34.85	-4.30	30.55	46.00	-15.45
519.85	Peak	38.89	-1.99	36.90	46.00	-9.10
730.34	Peak	33.34	1.48	34.82	46.00	-11.18

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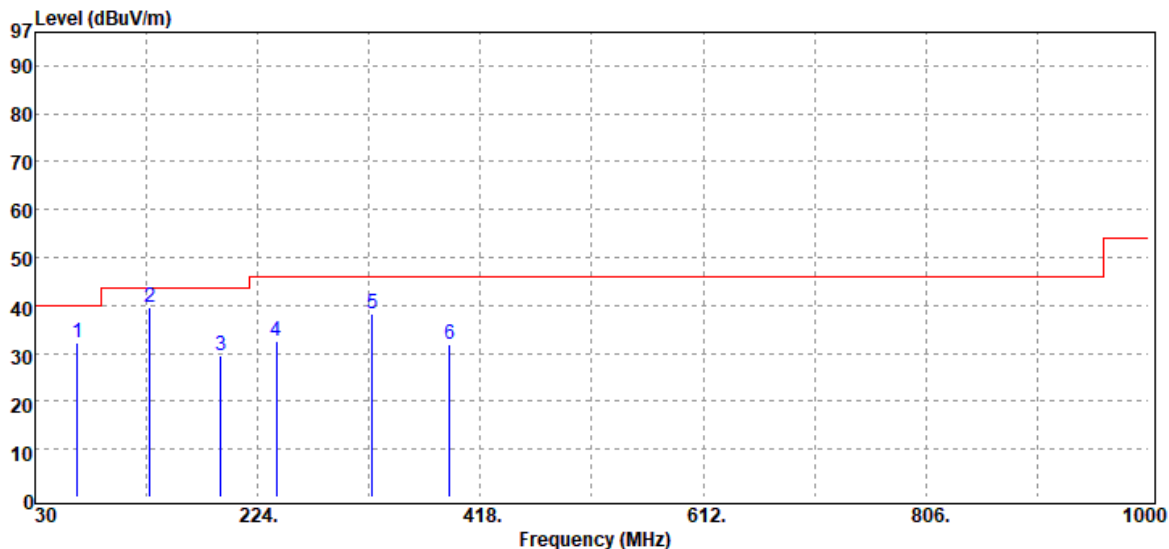
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane


Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
66.86	Peak	41.59	-9.41	32.18	40.00	-7.82
129.91	Peak	48.77	-9.00	39.77	43.50	-3.73
191.99	Peak	38.87	-9.47	29.40	43.50	-14.10
240.49	Peak	40.75	-8.09	32.66	46.00	-13.34
323.91	Peak	43.72	-5.30	38.42	46.00	-7.58
390.84	Peak	36.06	-4.17	31.89	46.00	-14.11

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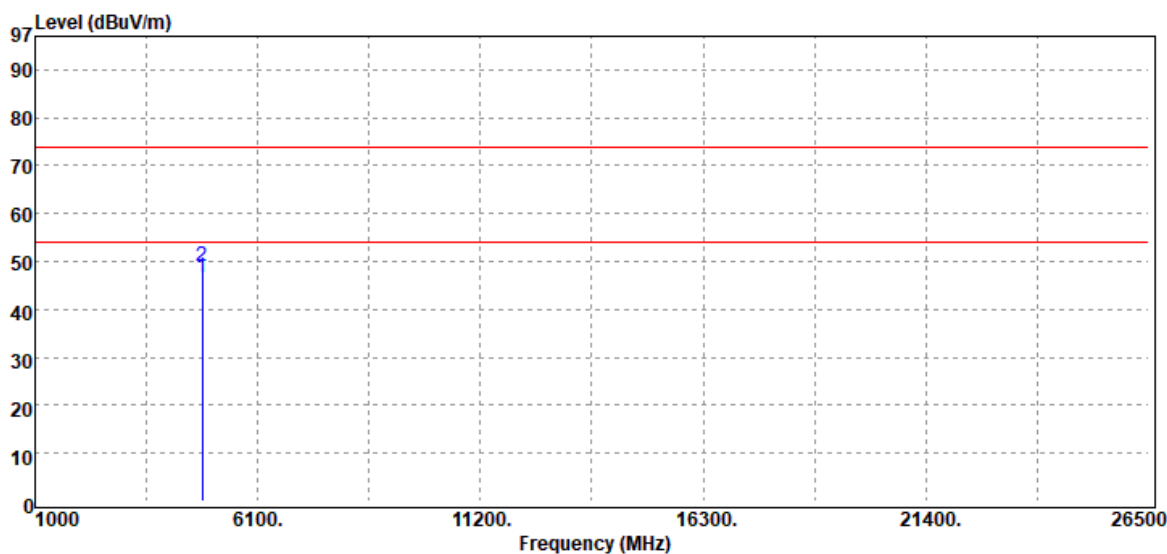
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11.7.3 Above 1GHz Emission:

External Antenna (Type: Dipole Antenna, Model no: WTS2450)

Report Number	:ER/2019/C0047	Test Date	:2019-11-28
Operation Mode	:802.11b	Temp./Humi.	:23.7/57
Test Channel	:2412 MHz	Antenna Pol.	:VERTICAL
Test Mode	:Tx CH Low	Engineer	:Kane
EUT Pol	:E2 Plane		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4829.00	Average	40.82	5.89	46.71	54.00	-7.29
4829.00	Peak	43.22	5.89	49.11	74.00	-24.89

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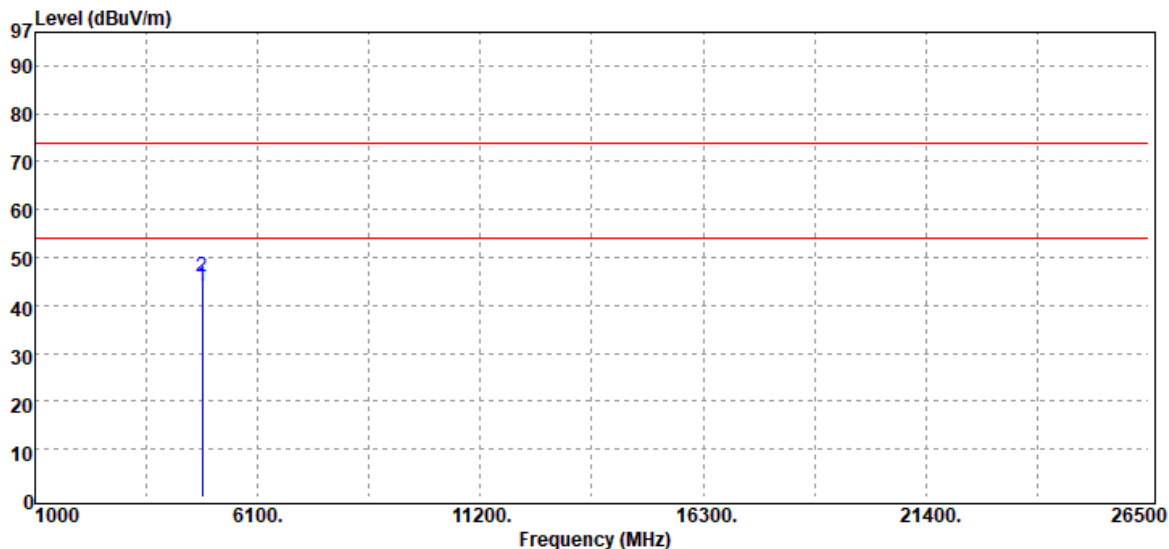
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Report Number :ER/2019/C0047
Operation Mode :802.11b
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	38.25	5.87	44.12	54.00	-9.88
4824.00	Peak	40.28	5.87	46.15	74.00	-27.85

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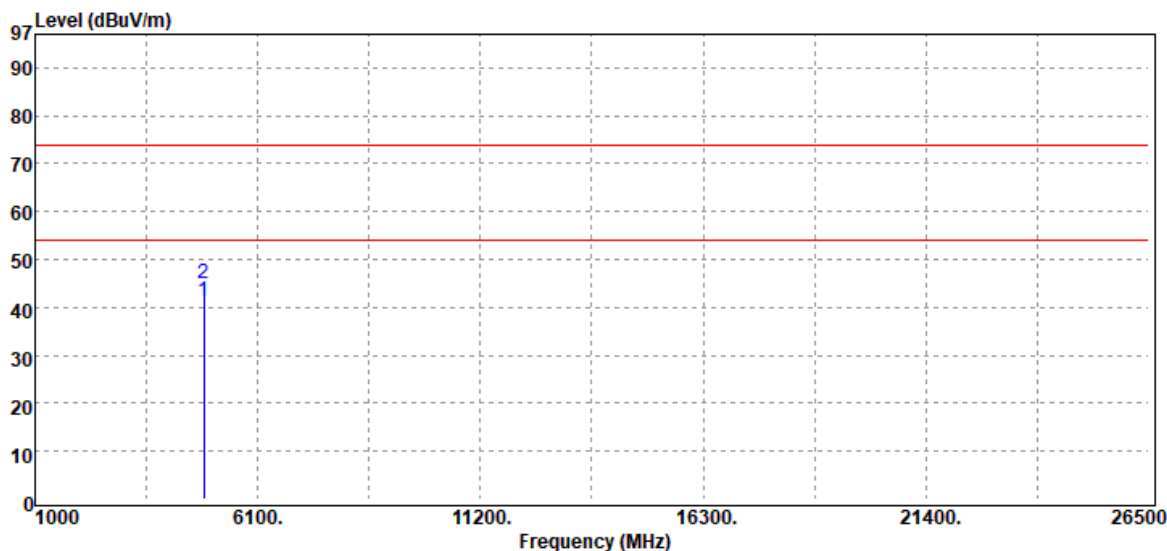
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Report Number :ER/2019/C0047
Operation Mode :802.11b
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	34.71	6.69	41.40	54.00	-12.60
4874.00	Peak	38.45	6.69	45.14	74.00	-28.86

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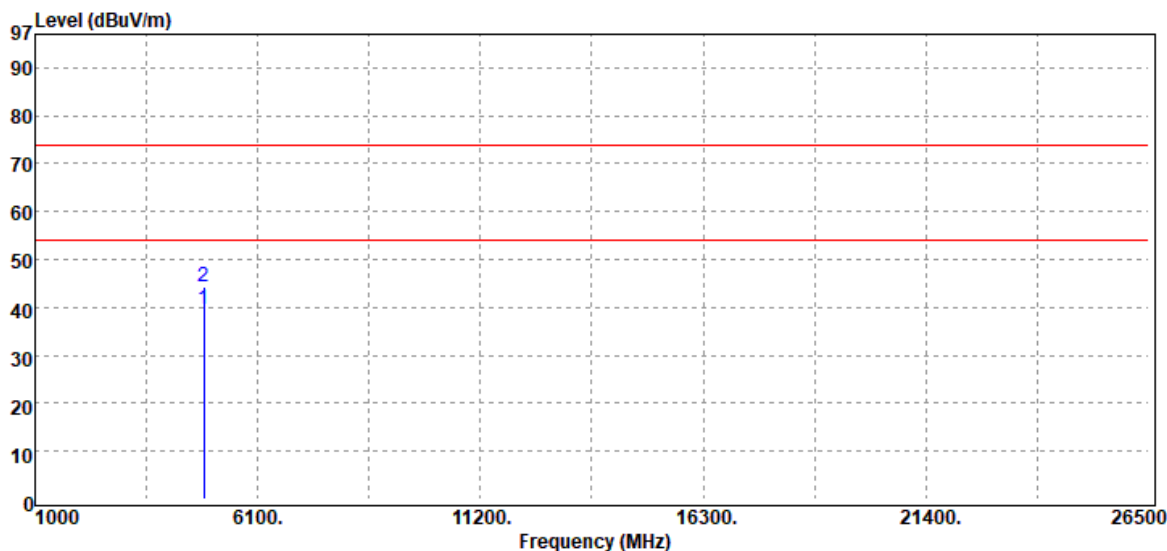
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Report Number :ER/2019/C0047
Operation Mode :802.11b
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	32.91	6.69	39.60	54.00	-14.40
4874.00	Peak	37.57	6.69	44.26	74.00	-29.74

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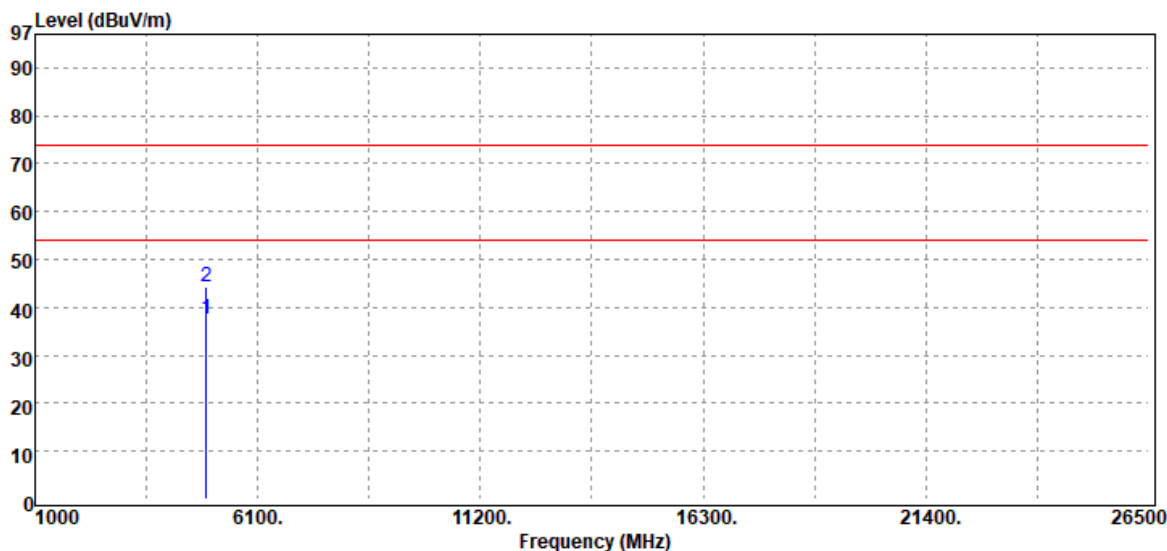
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Report Number :ER/2019/C0047
Operation Mode :802.11b
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	30.74	6.85	37.59	54.00	-16.41
4924.00	Peak	37.37	6.85	44.22	74.00	-29.78

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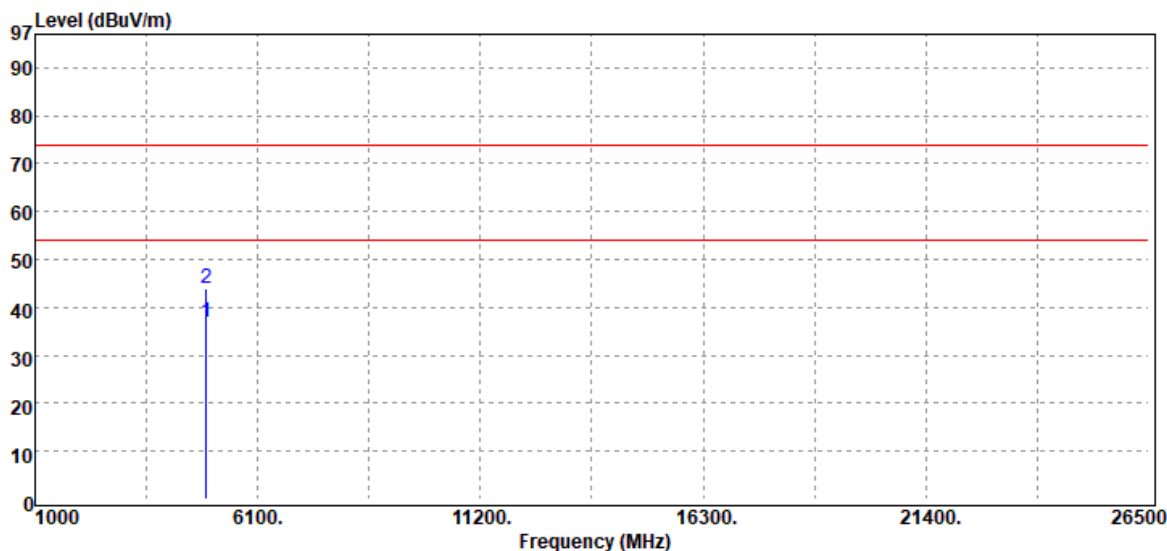
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Report Number :ER/2019/C0047
Operation Mode :802.11b
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	Average	30.23	6.85	37.08	54.00	-16.92
4924.00	Peak	37.28	6.85	44.13	74.00	-29.87

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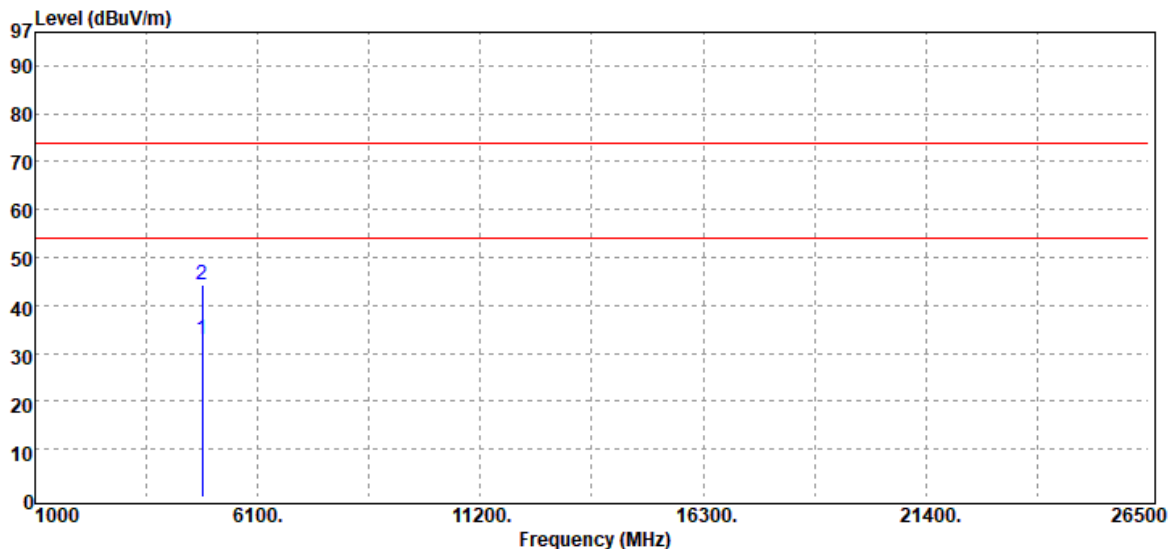
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	26.22	6.53	32.75	54.00	-21.25
4824.00	Peak	37.78	6.53	44.31	74.00	-29.69

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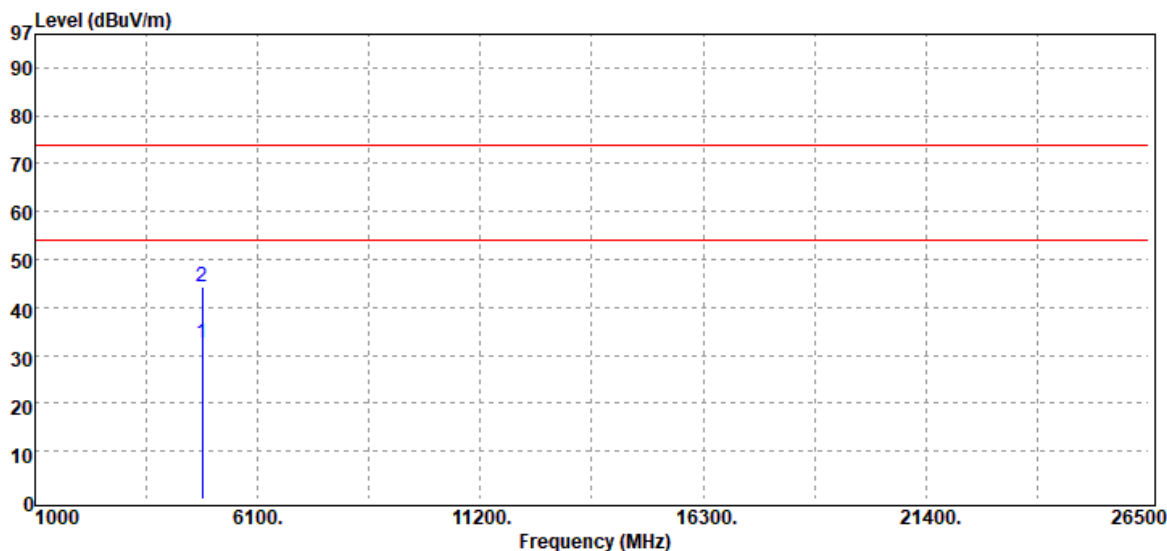
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	25.91	6.53	32.44	54.00	-21.56
4824.00	Peak	37.86	6.53	44.39	74.00	-29.61

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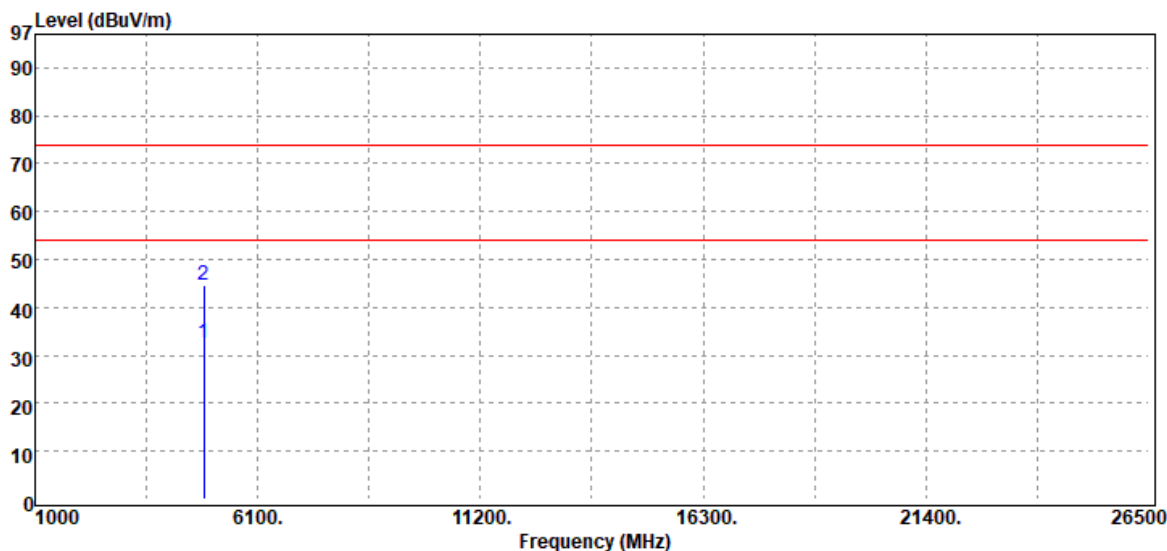
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Member of SGS Group

Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	25.86	6.69	32.55	54.00	-21.45
4874.00	Peak	37.88	6.69	44.57	74.00	-29.43

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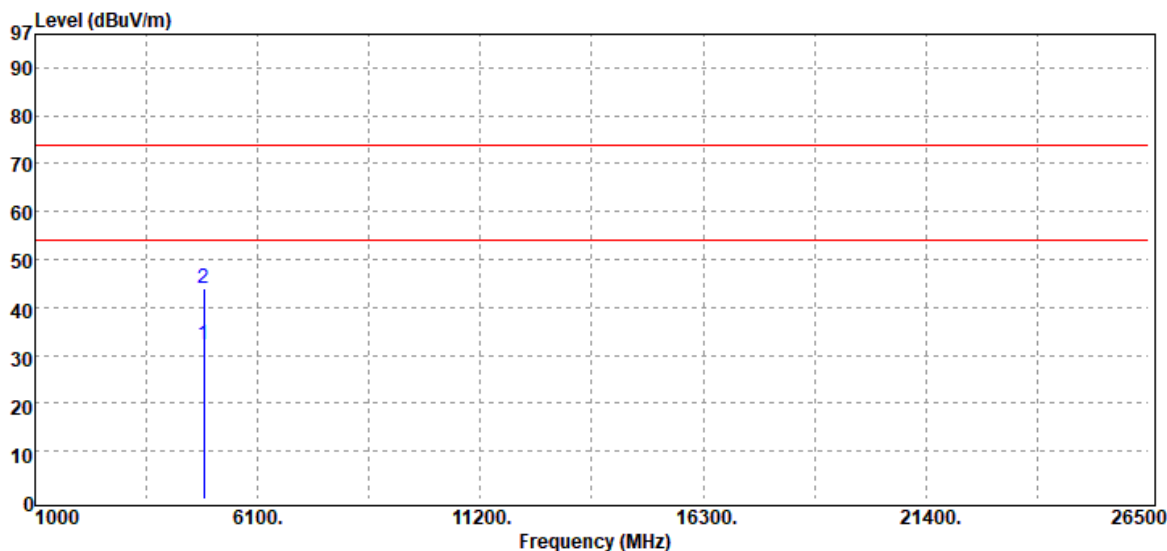
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	25.57	6.69	32.26	54.00	-21.74
4874.00	Peak	37.34	6.69	44.03	74.00	-29.97

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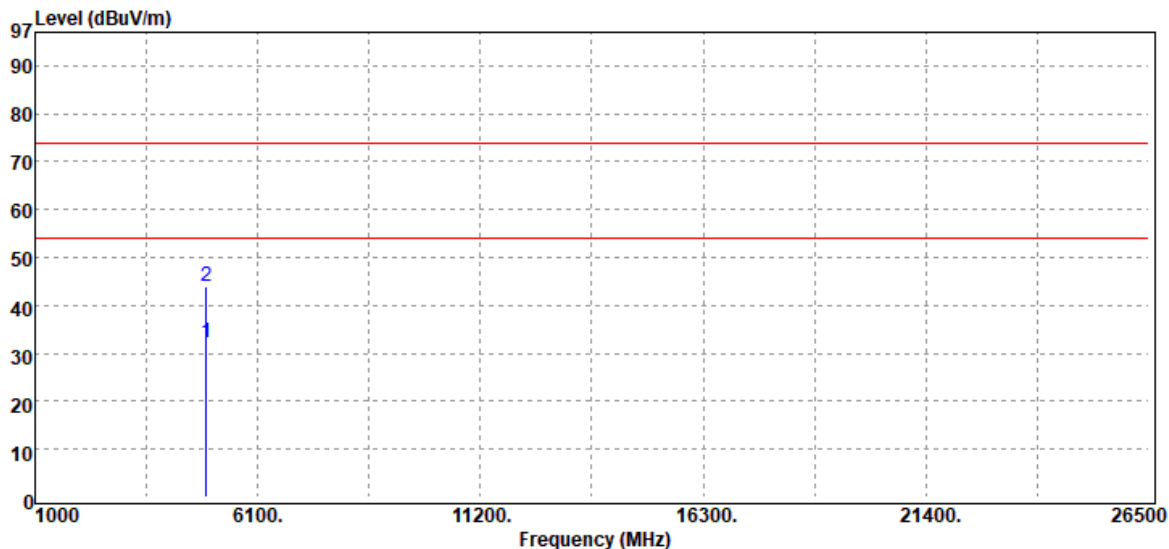
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	25.41	6.85	32.26	54.00	-21.74
4924.00	Peak	37.12	6.85	43.97	74.00	-30.03

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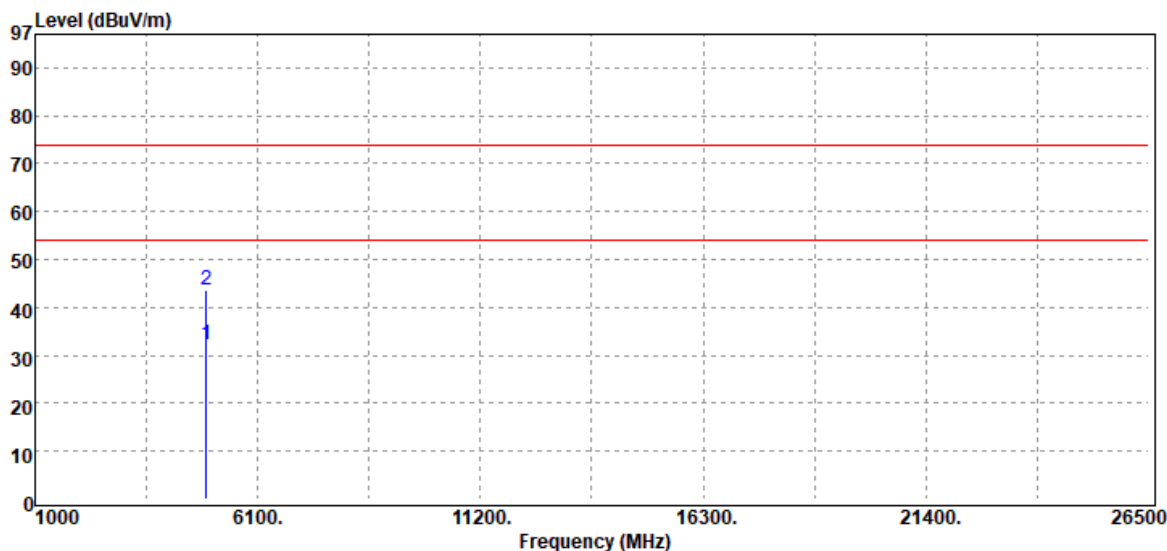
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	Average	25.53	6.85	32.38	54.00	-21.62
4924.00	Peak	36.86	6.85	43.71	74.00	-30.29

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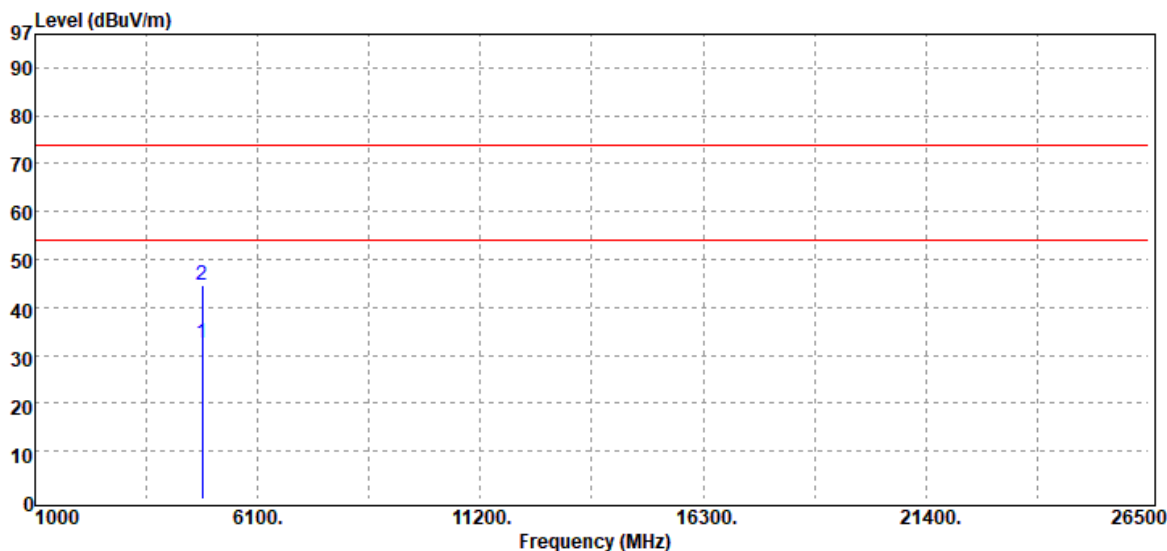
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	26.12	6.53	32.65	54.00	-21.35
4824.00	Peak	37.98	6.53	44.51	74.00	-29.49

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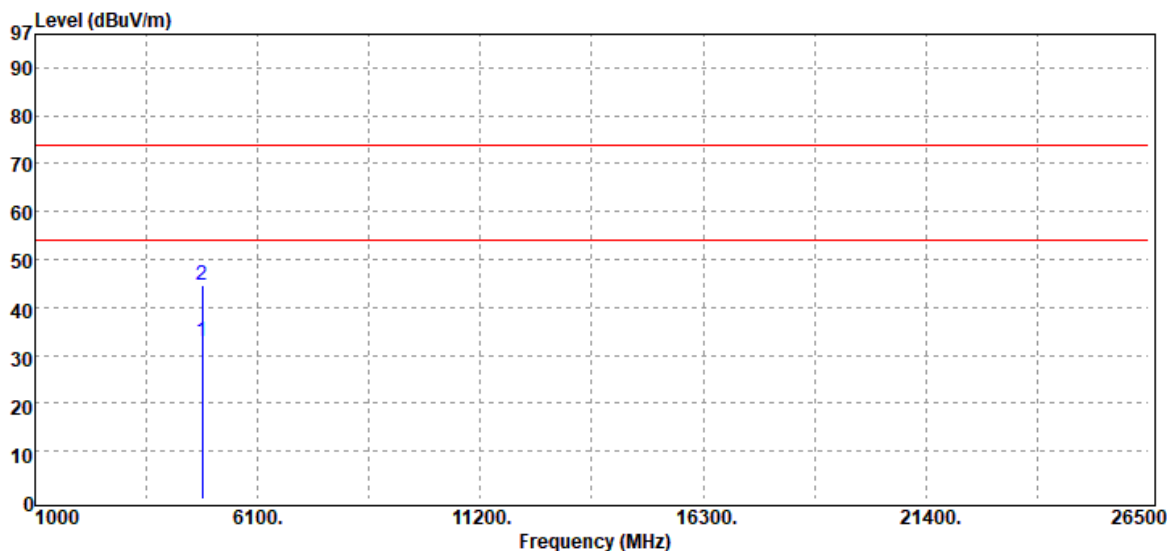
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	26.40	6.53	32.93	54.00	-21.07
4824.00	Peak	38.08	6.53	44.61	74.00	-29.39

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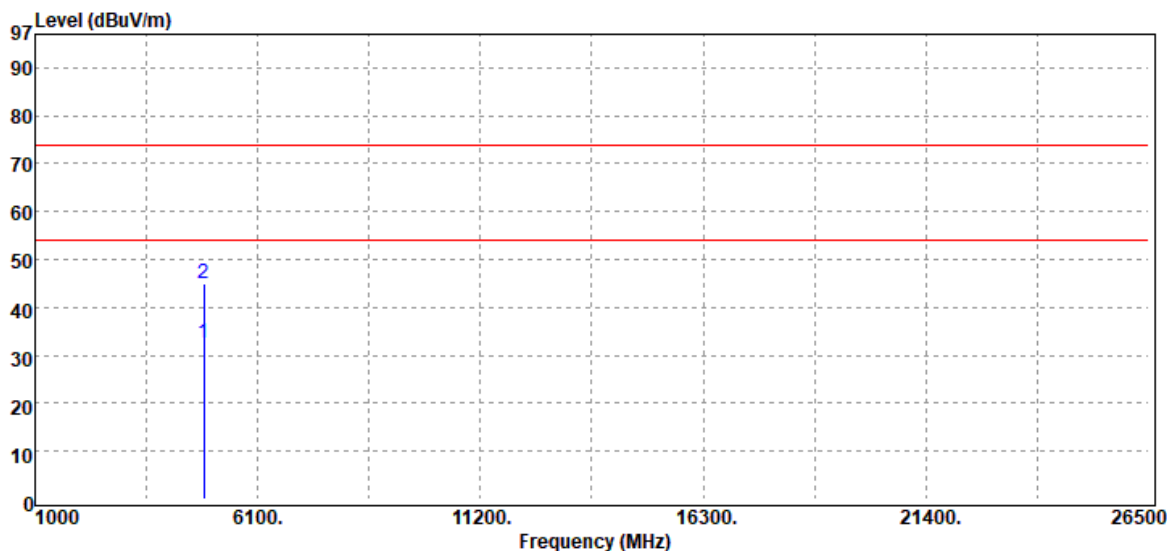
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	25.84	6.69	32.53	54.00	-21.47
4874.00	Peak	38.33	6.69	45.02	74.00	-28.98

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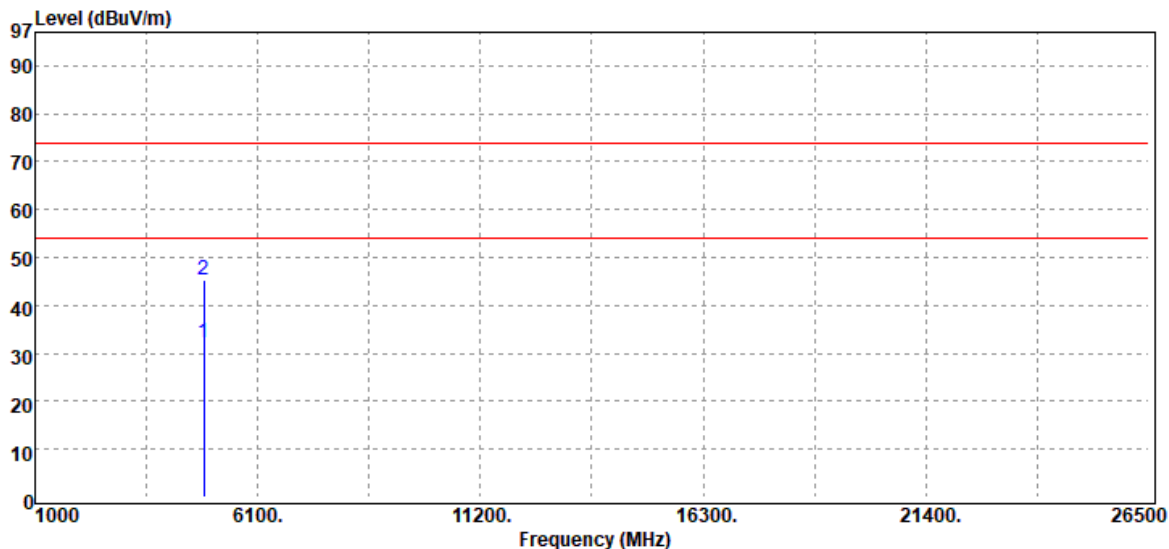
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	25.69	6.69	32.38	54.00	-21.62
4874.00	Peak	38.54	6.69	45.23	74.00	-28.77

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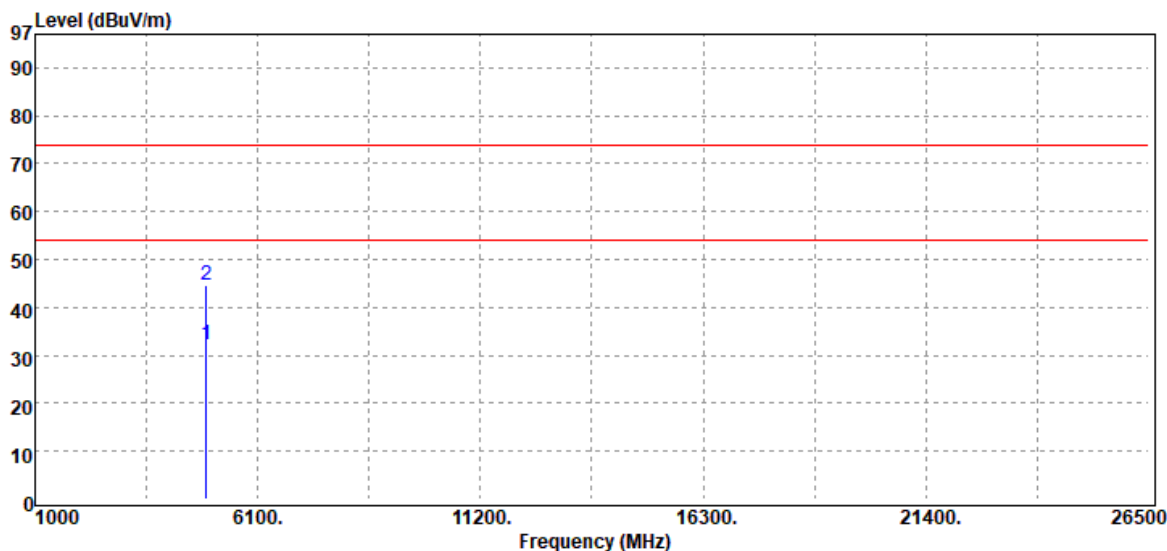
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	25.43	6.85	32.28	54.00	-21.72
4924.00	Peak	37.68	6.85	44.53	74.00	-29.47

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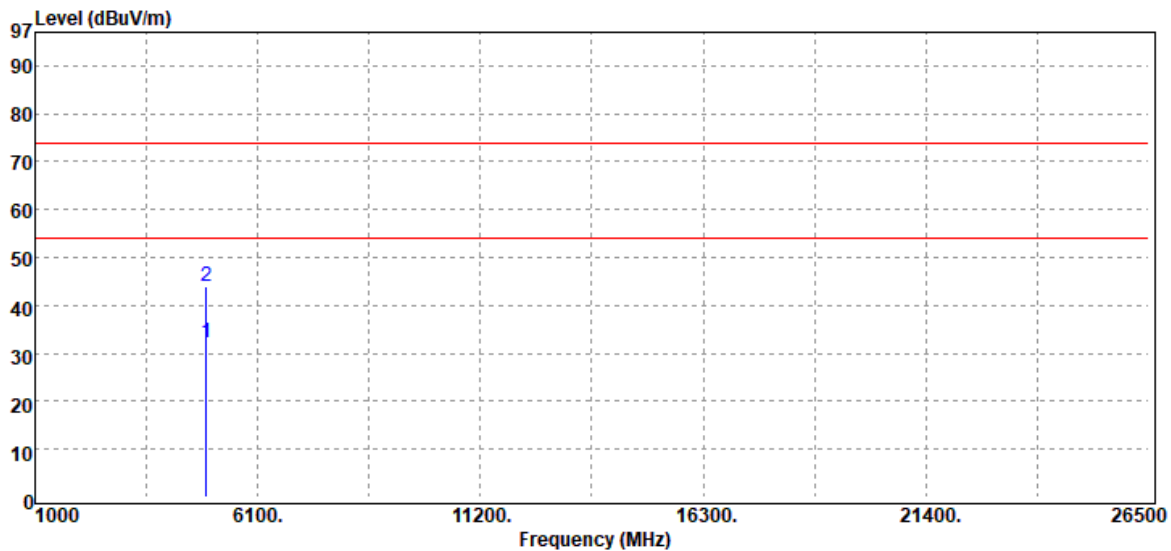
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	25.39	6.85	32.24	54.00	-21.76
4924.00	Peak	37.00	6.85	43.85	74.00	-30.15

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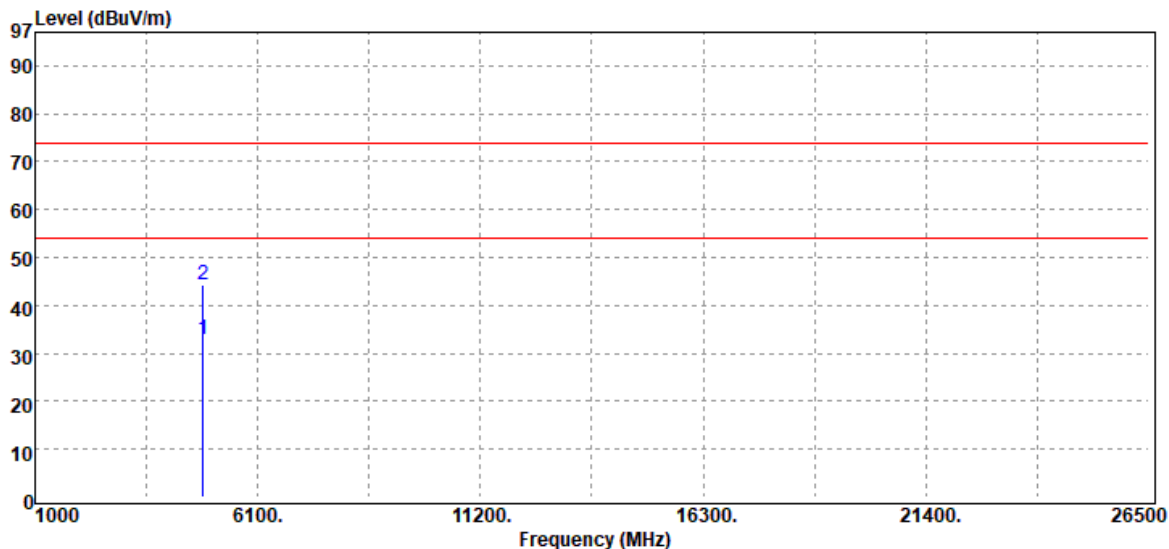
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2422 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.00	Average	26.26	6.60	32.86	54.00	-21.14
4844.00	Peak	37.69	6.60	44.29	74.00	-29.71

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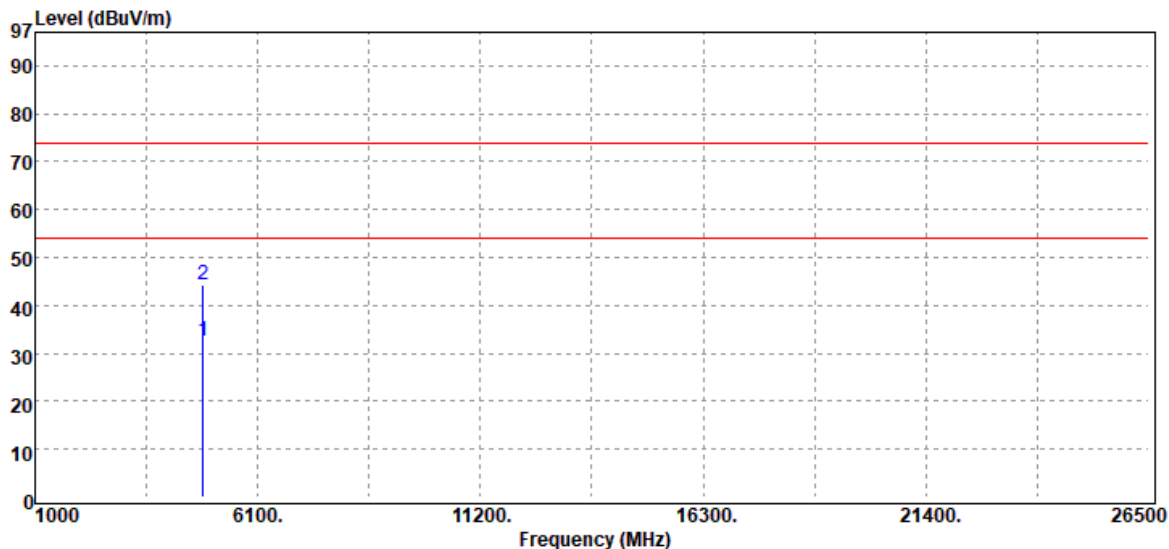
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2422 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.00	Average	25.88	6.60	32.48	54.00	-21.52
4844.00	Peak	37.81	6.60	44.41	74.00	-29.59

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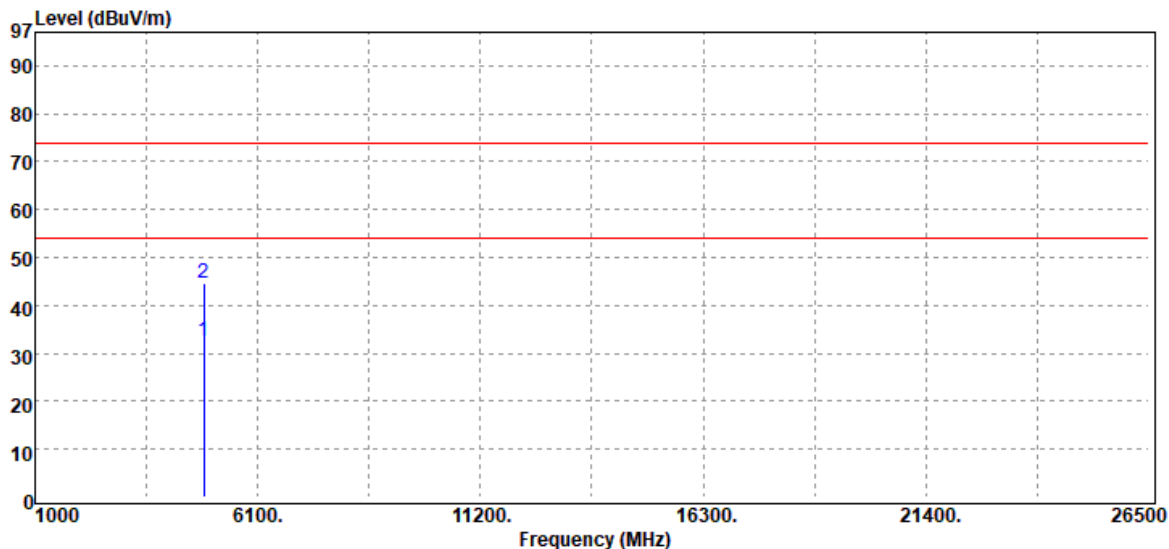
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	25.90	6.69	32.59	54.00	-21.41
4874.00	Peak	37.90	6.69	44.59	74.00	-29.41

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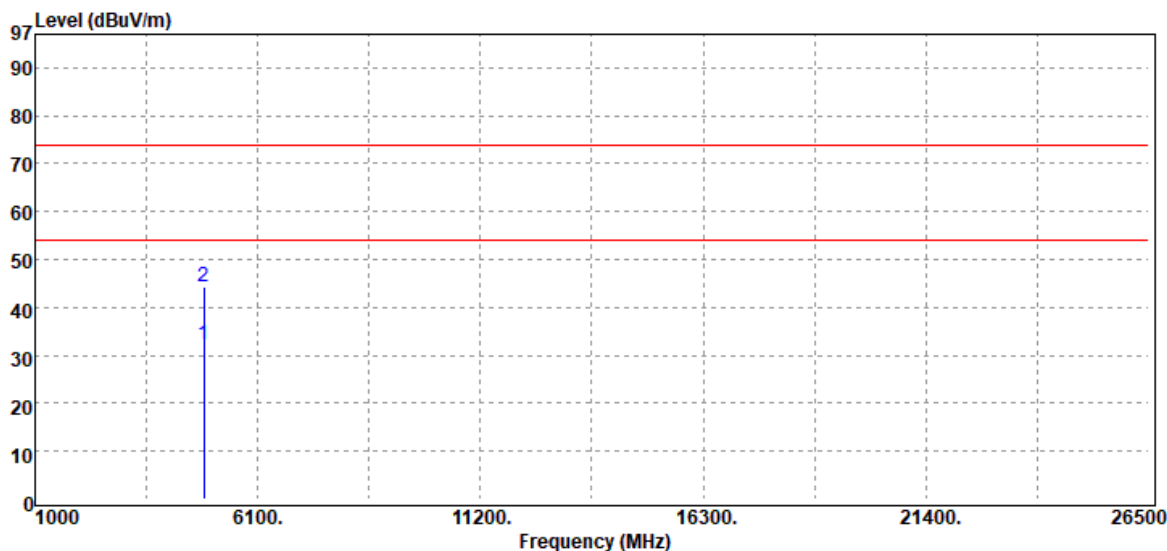
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	25.65	6.69	32.34	54.00	-21.66
4874.00	Peak	37.45	6.69	44.14	74.00	-29.86

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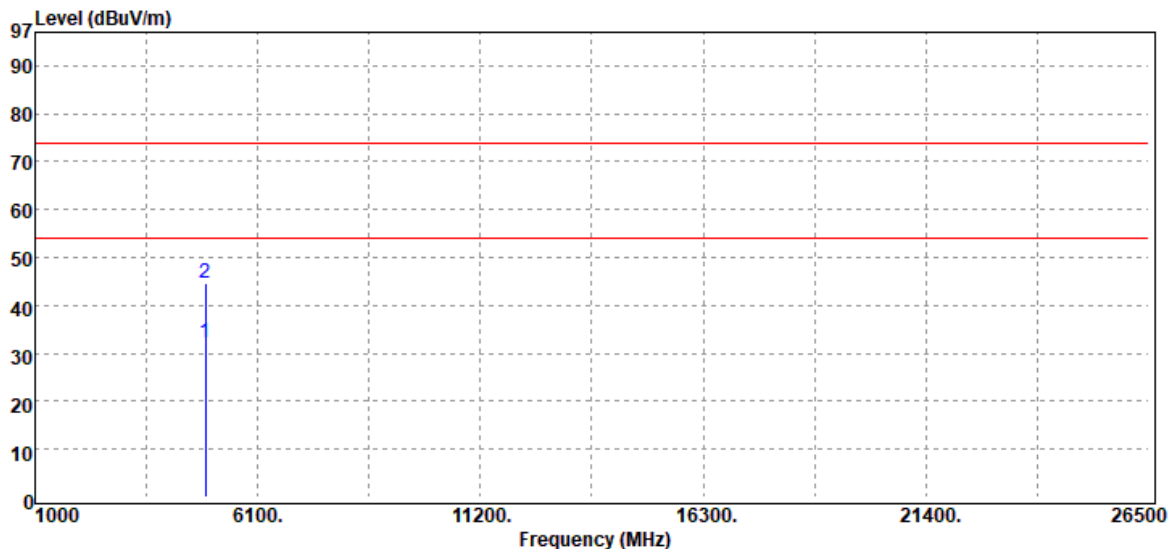
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2452 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	Average	25.34	6.78	32.12	54.00	-21.88
4904.00	Peak	38.02	6.78	44.80	74.00	-29.20

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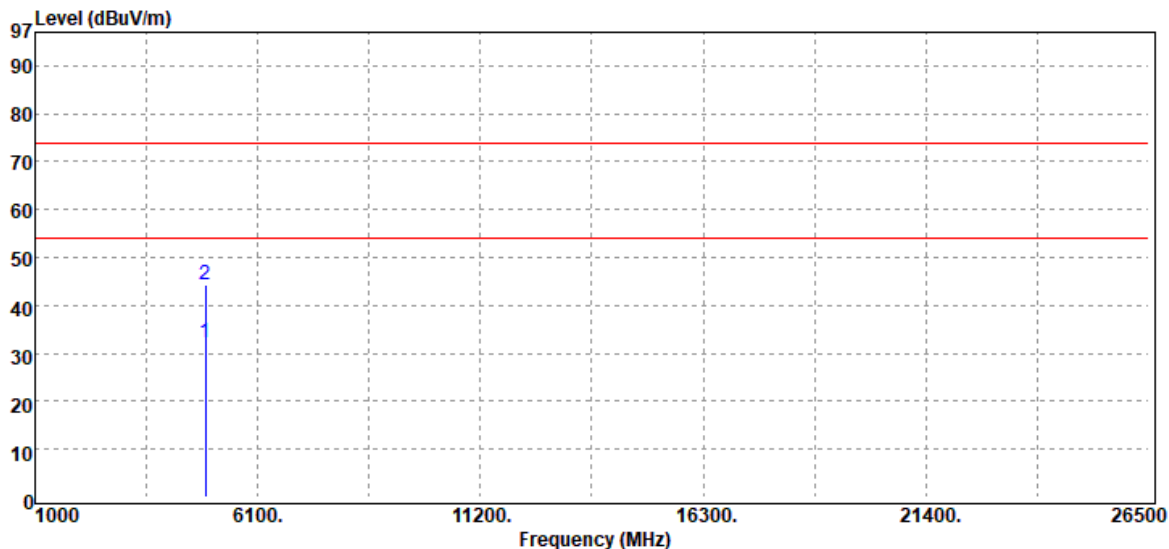
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2452 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-11-28
Temp./Humi. :23.7/57
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4904.00	Average	25.36	6.78	32.14	54.00	-21.86
4904.00	Peak	37.44	6.78	44.22	74.00	-29.78

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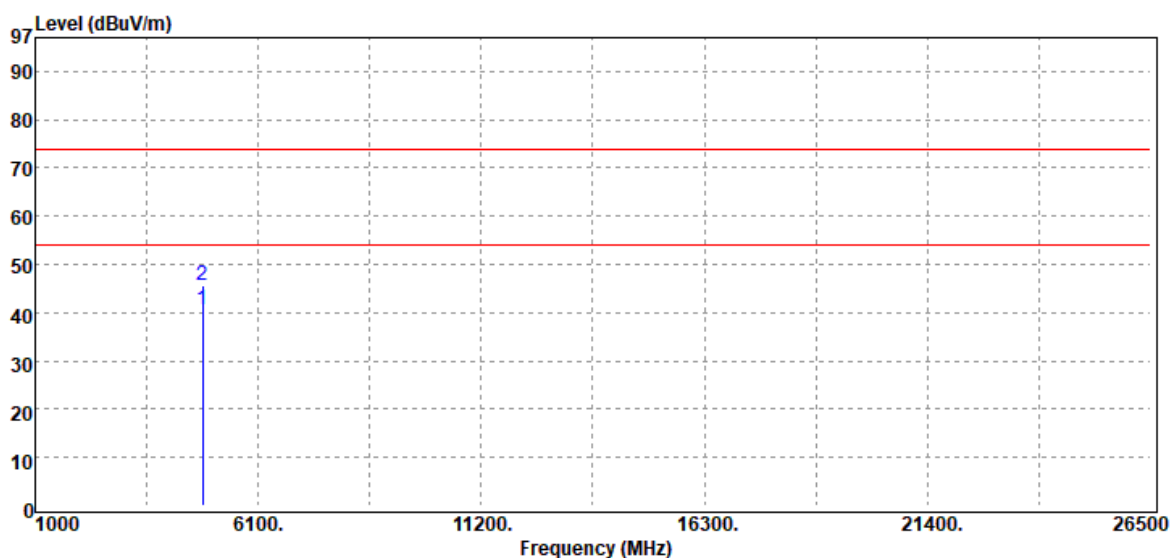
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Internal Antenna

Report Number :ER/2019/C0047
Operation Mode :802.11b
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	34.75	5.87	40.62	54.00	-13.38
4824.00	Peak	39.67	5.87	45.54	74.00	-28.46

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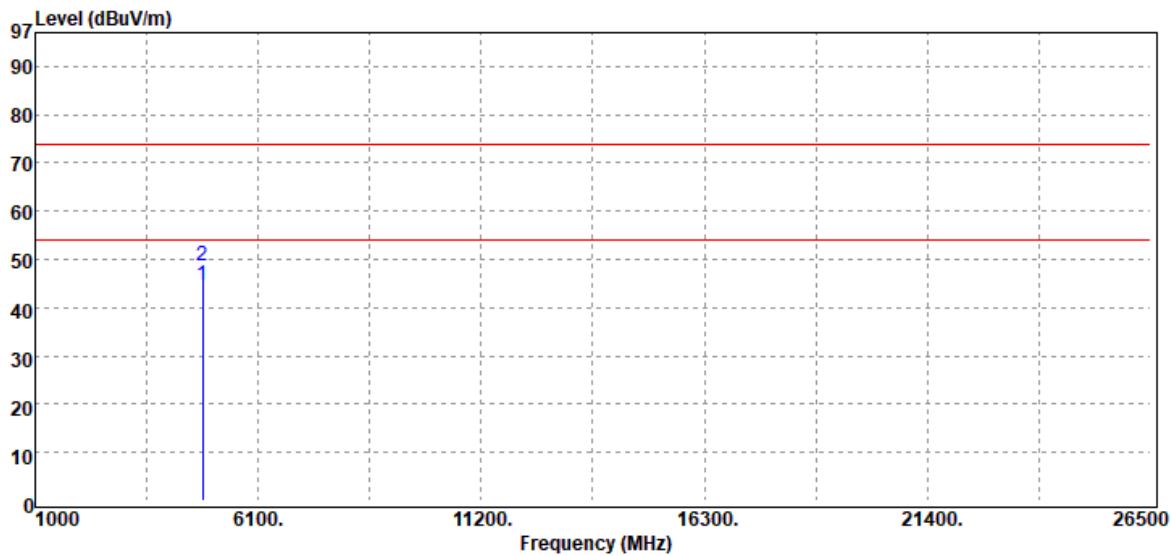
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Report Number :ER/2019/C0047
Operation Mode :802.11b
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	38.84	5.87	44.71	54.00	-9.29
4824.00	Peak	42.79	5.87	48.66	74.00	-25.34

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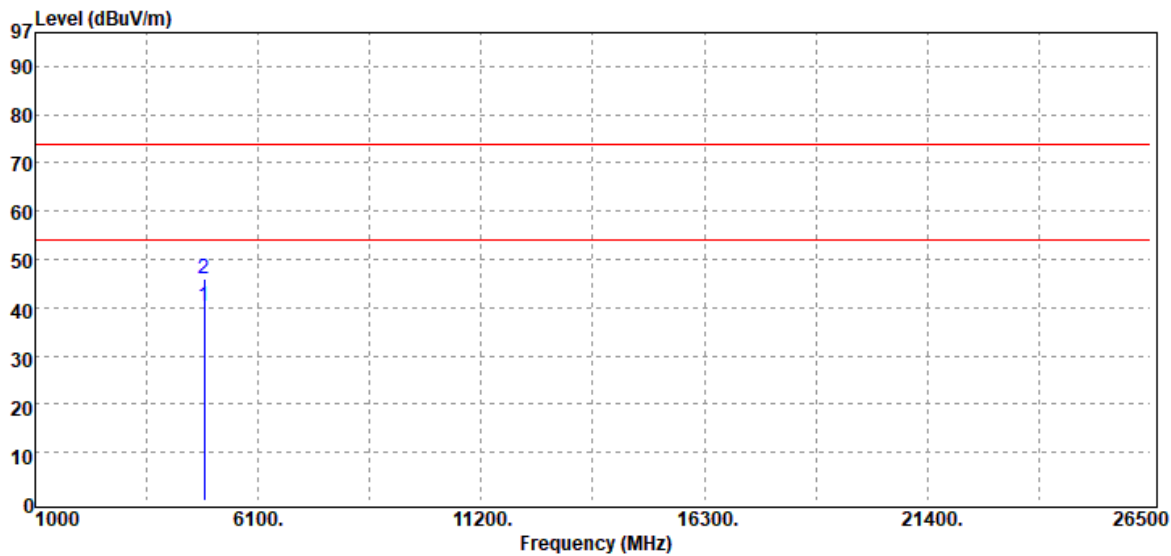
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Report Number :ER/2019/C0047
Operation Mode :802.11b
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	33.53	6.69	40.22	54.00	-13.78
4874.00	Peak	39.45	6.69	46.14	74.00	-27.86

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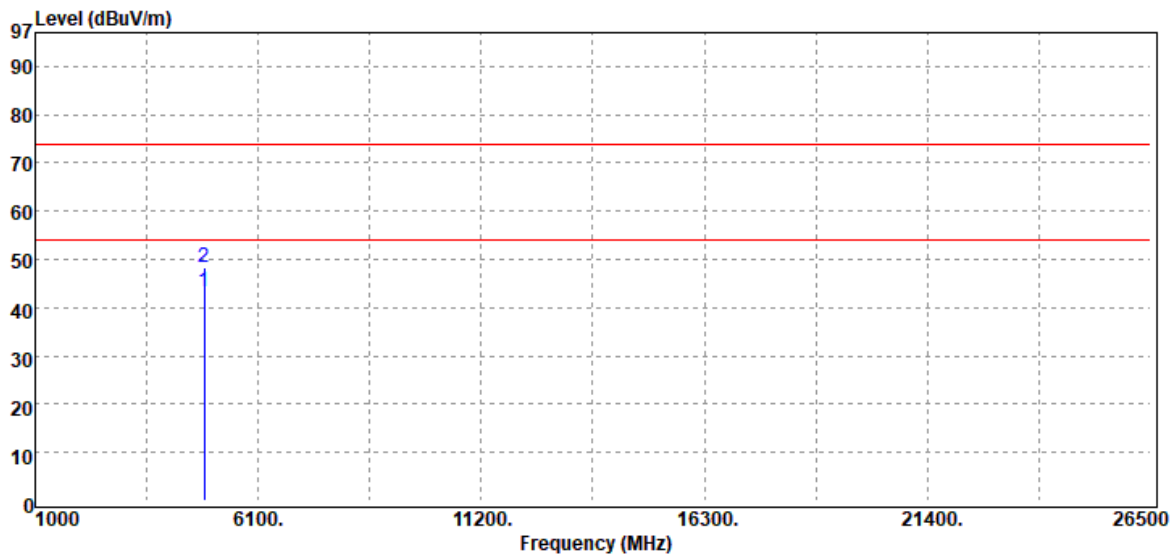
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Report Number :ER/2019/C0047
Operation Mode :802.11b
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	36.67	6.69	43.36	54.00	-10.64
4874.00	Peak	41.64	6.69	48.33	74.00	-25.67

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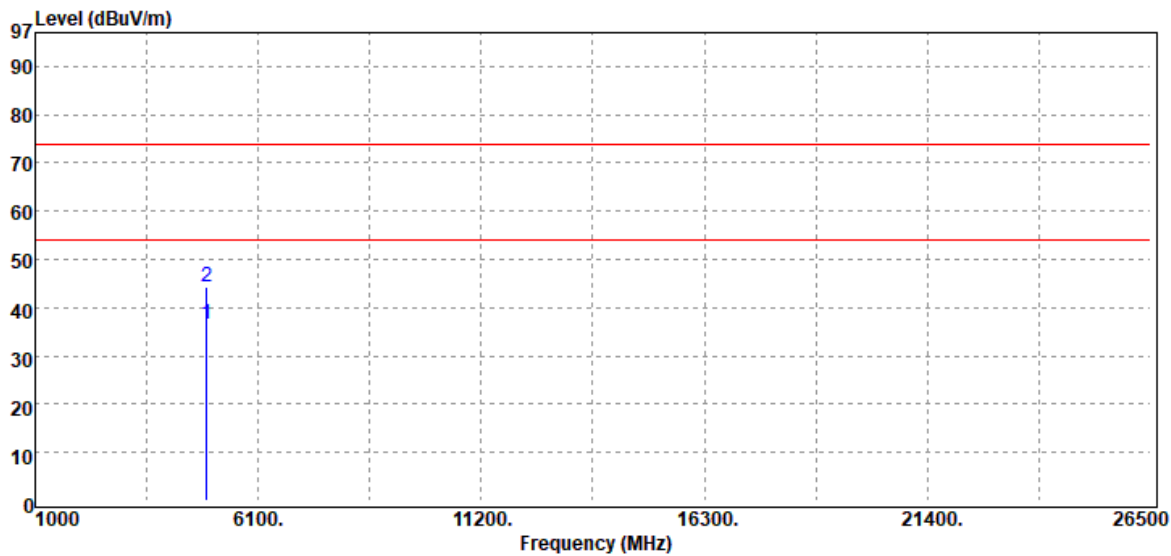
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Report Number :ER/2019/C0047
Operation Mode :802.11b
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	Average	29.89	6.85	36.74	54.00	-17.26
4924.00	Peak	37.38	6.85	44.23	74.00	-29.77

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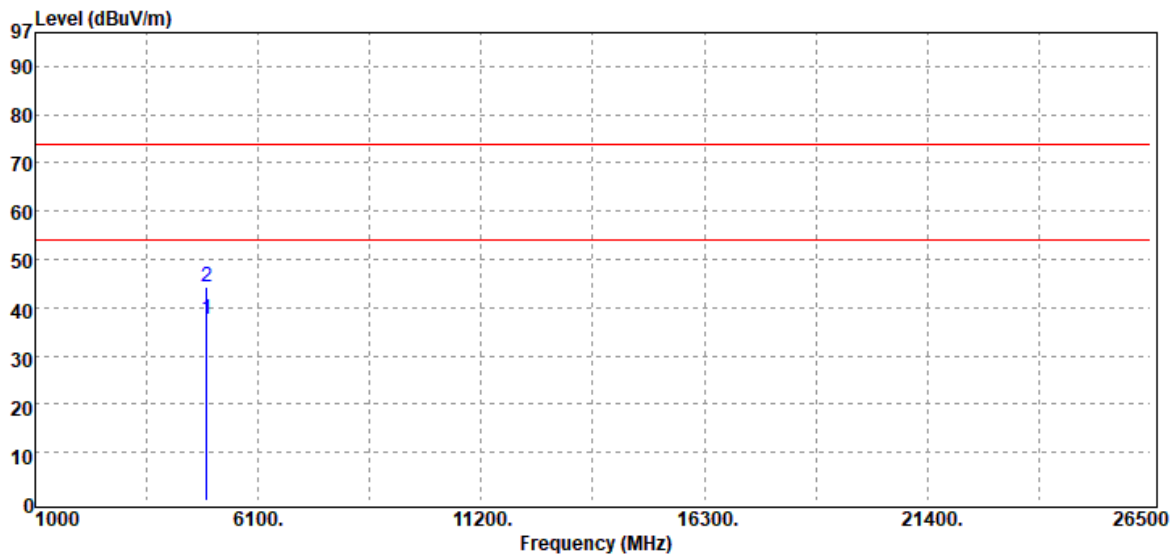
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Report Number :ER/2019/C0047
Operation Mode :802.11b
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	Average	30.86	6.85	37.71	54.00	-16.29
4924.00	Peak	37.47	6.85	44.32	74.00	-29.68

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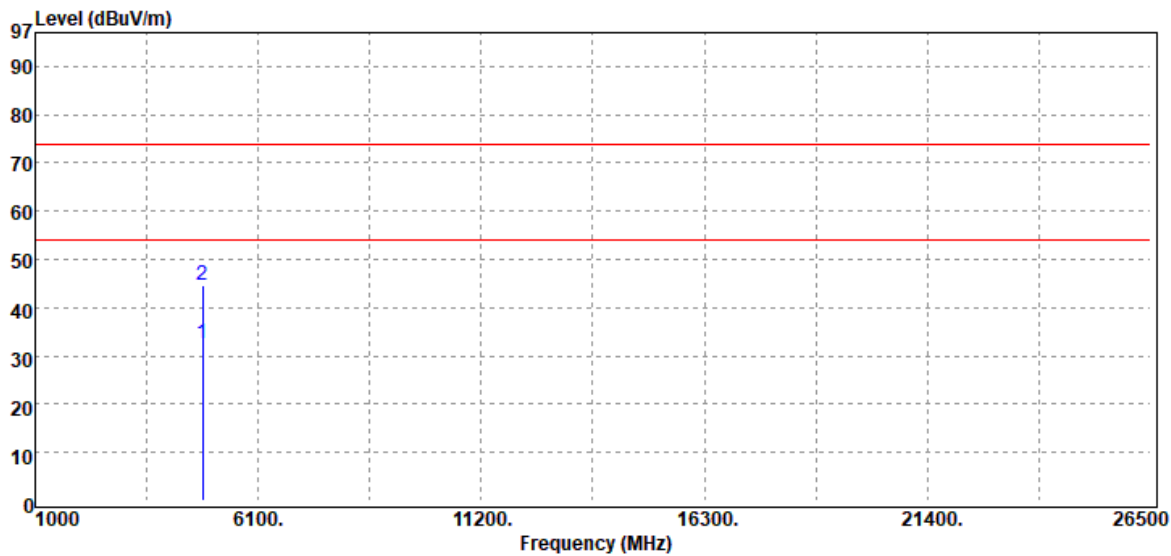
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	26.17	6.53	32.70	54.00	-21.30
4824.00	Peak	38.07	6.53	44.60	74.00	-29.40

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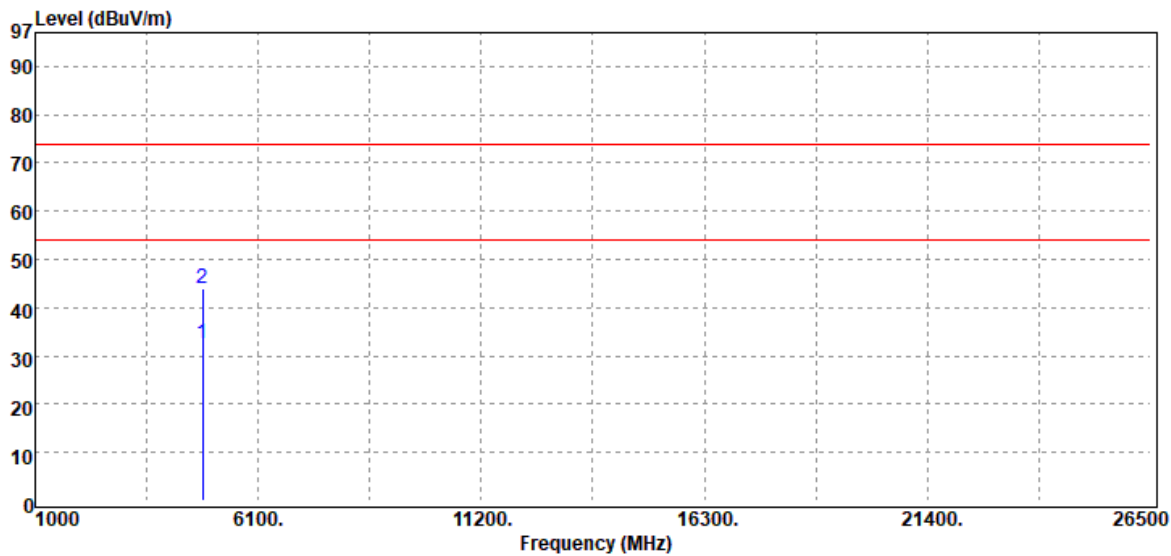
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	25.93	6.53	32.46	54.00	-21.54
4824.00	Peak	37.51	6.53	44.04	74.00	-29.96

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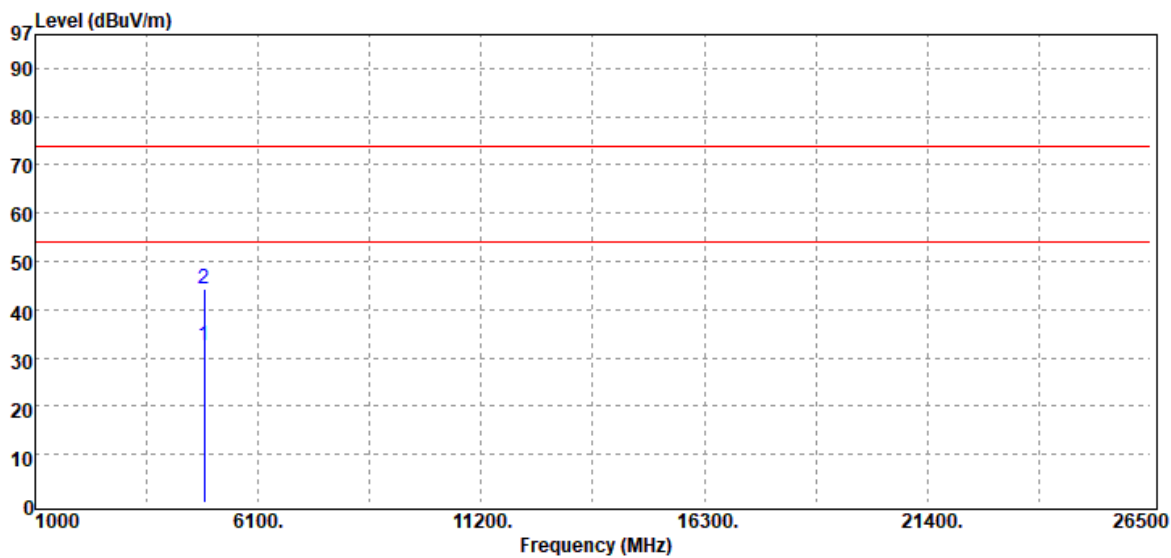
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	25.87	6.69	32.56	54.00	-21.44
4874.00	Peak	37.48	6.69	44.17	74.00	-29.83

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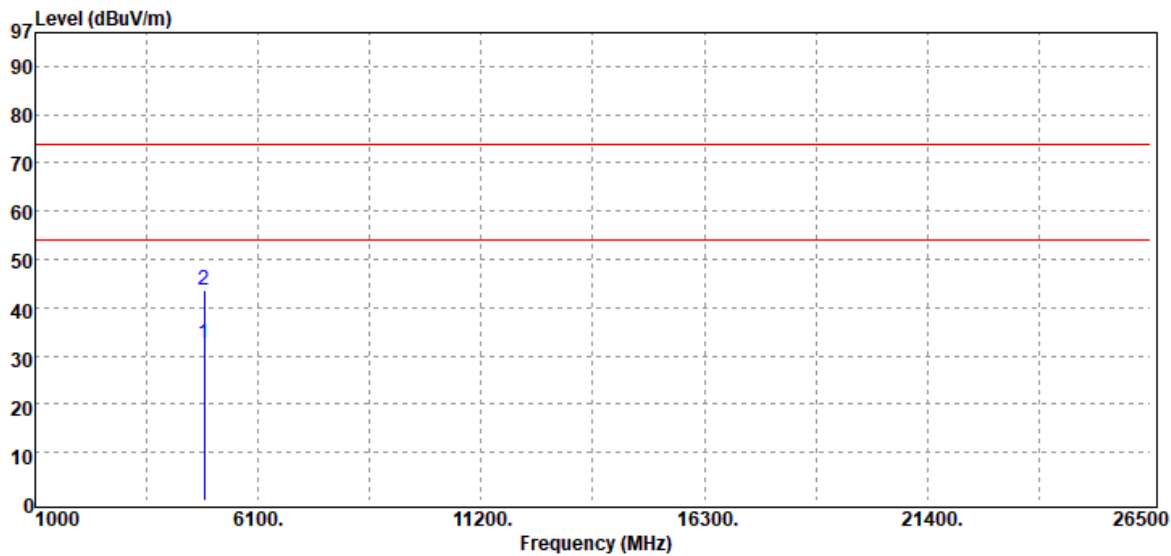
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	25.72	6.69	32.41	54.00	-21.59
4874.00	Peak	36.99	6.69	43.68	74.00	-30.32

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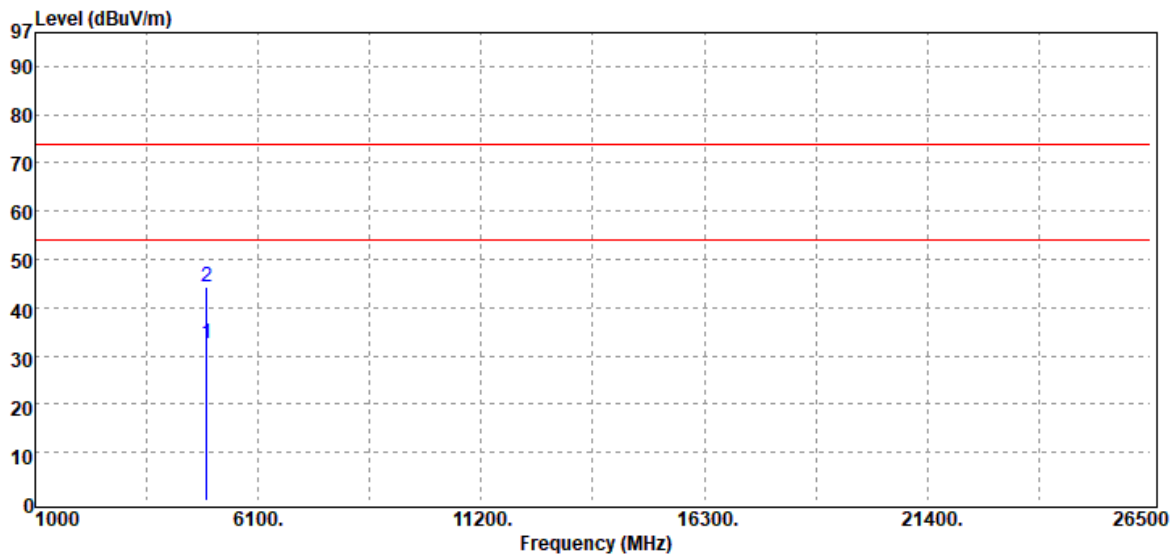
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	Average	25.76	6.85	32.61	54.00	-21.39
4924.00	Peak	37.47	6.85	44.32	74.00	-29.68

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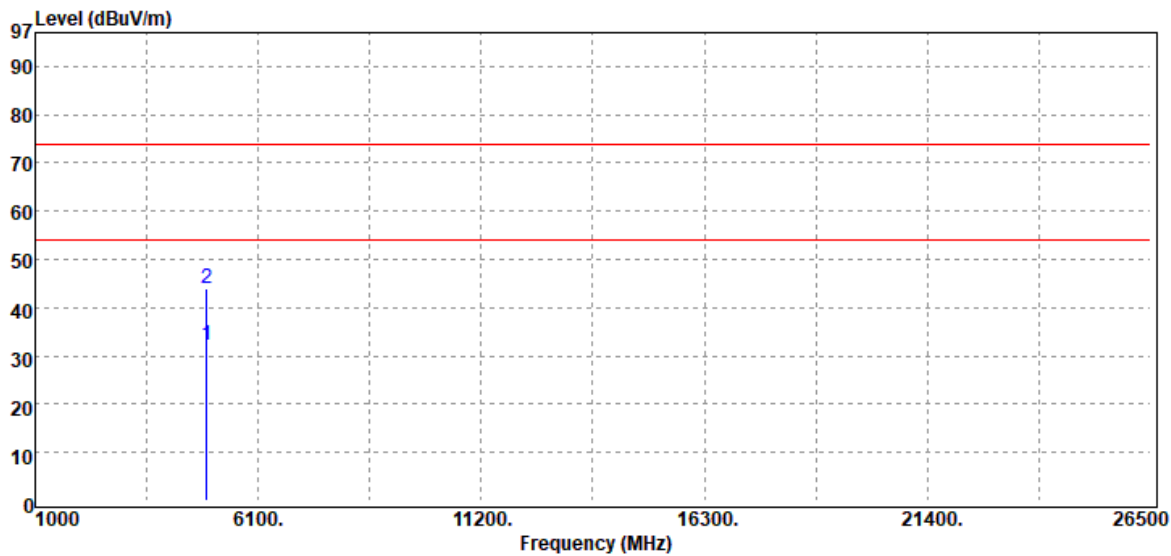
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Report Number :ER/2019/C0047
Operation Mode :802.11g
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	Average	25.41	6.85	32.26	54.00	-21.74
4924.00	Peak	37.28	6.85	44.13	74.00	-29.87

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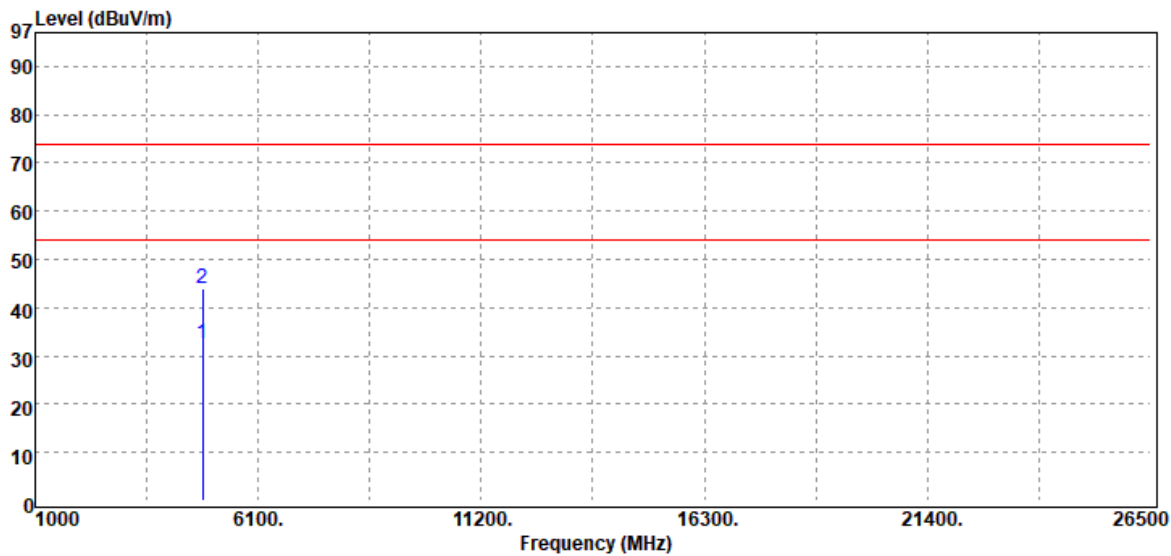
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	26.07	6.53	32.60	54.00	-21.40
4824.00	Peak	37.52	6.53	44.05	74.00	-29.95

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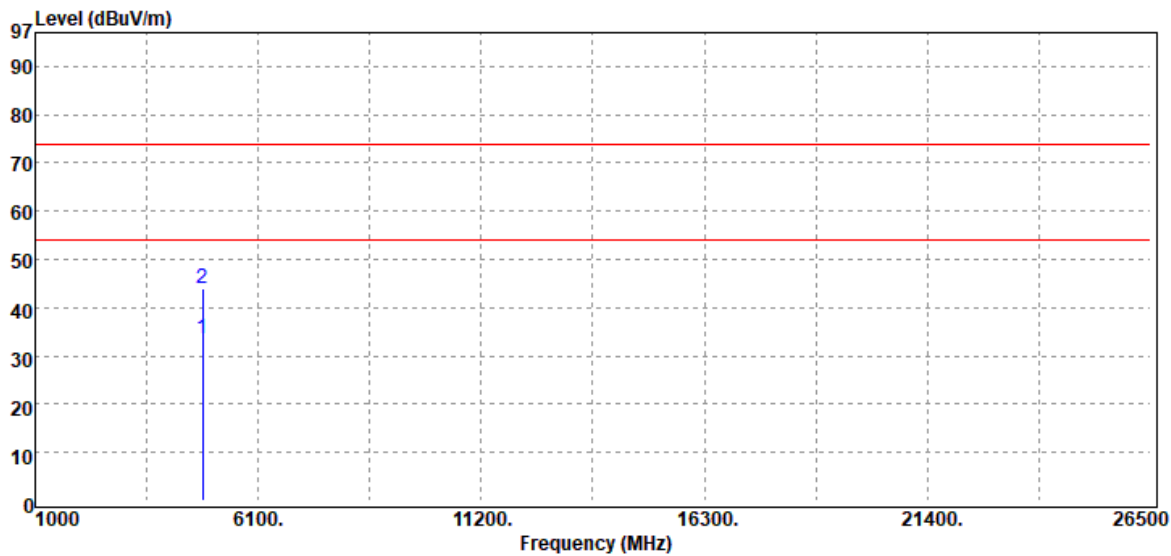
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2412 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4824.00	Average	26.96	6.53	33.49	54.00	-20.51
4824.00	Peak	37.49	6.53	44.02	74.00	-29.98

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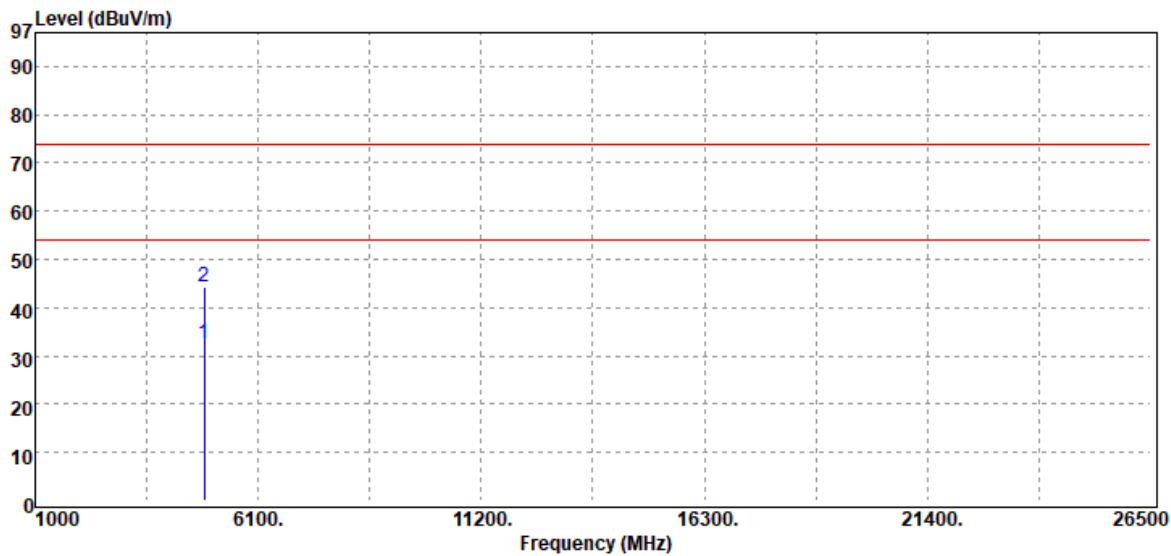
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Member of SGS Group

Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	25.89	6.69	32.58	54.00	-21.42
4874.00	Peak	37.65	6.69	44.34	74.00	-29.66

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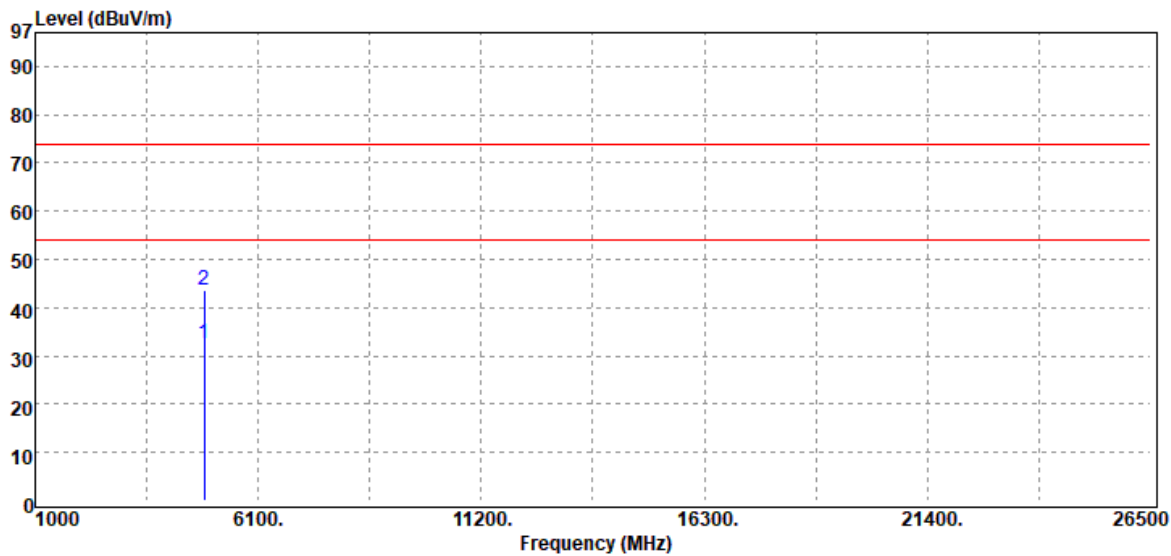
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	25.80	6.69	32.49	54.00	-21.51
4874.00	Peak	37.00	6.69	43.69	74.00	-30.31

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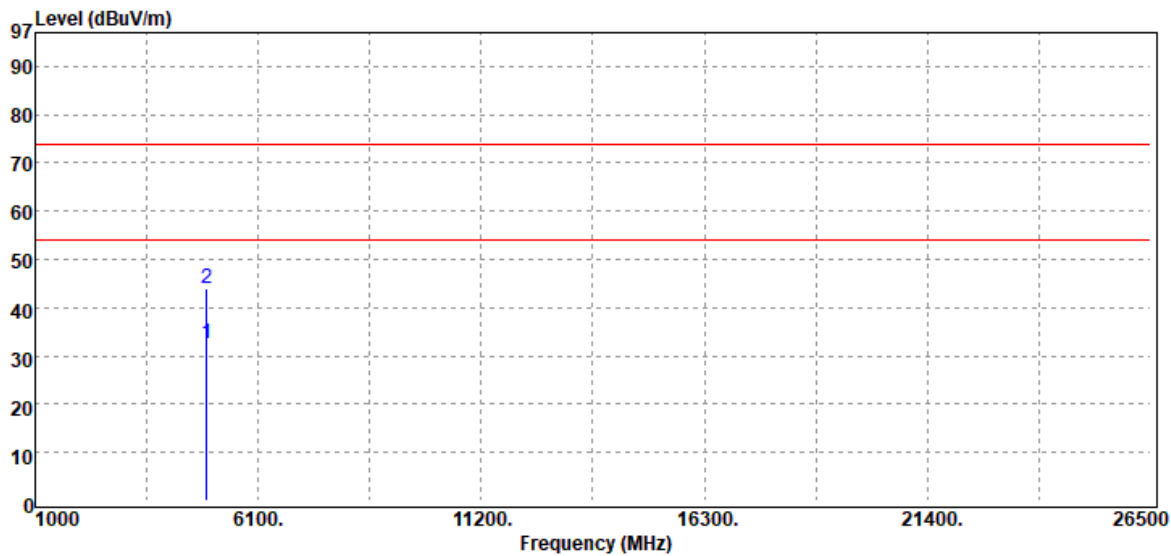
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	Average	25.73	6.85	32.58	54.00	-21.42
4924.00	Peak	37.20	6.85	44.05	74.00	-29.95

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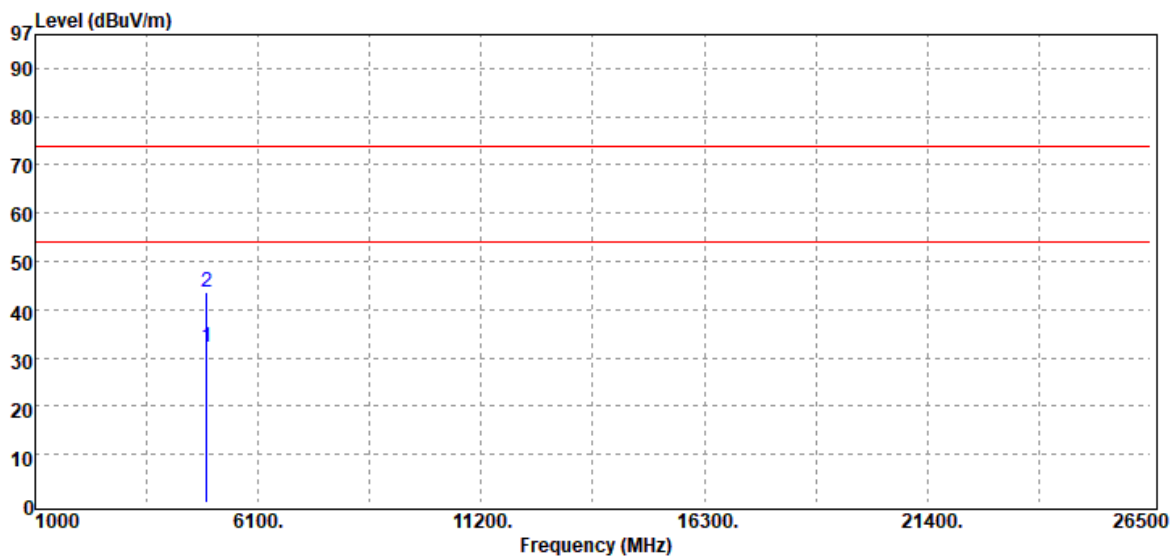
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Report Number :ER/2019/C0047
Operation Mode :802.11n20
Test Channel :2462 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4924.00	Average	25.50	6.85	32.35	54.00	-21.65
4924.00	Peak	36.68	6.85	43.53	74.00	-30.47

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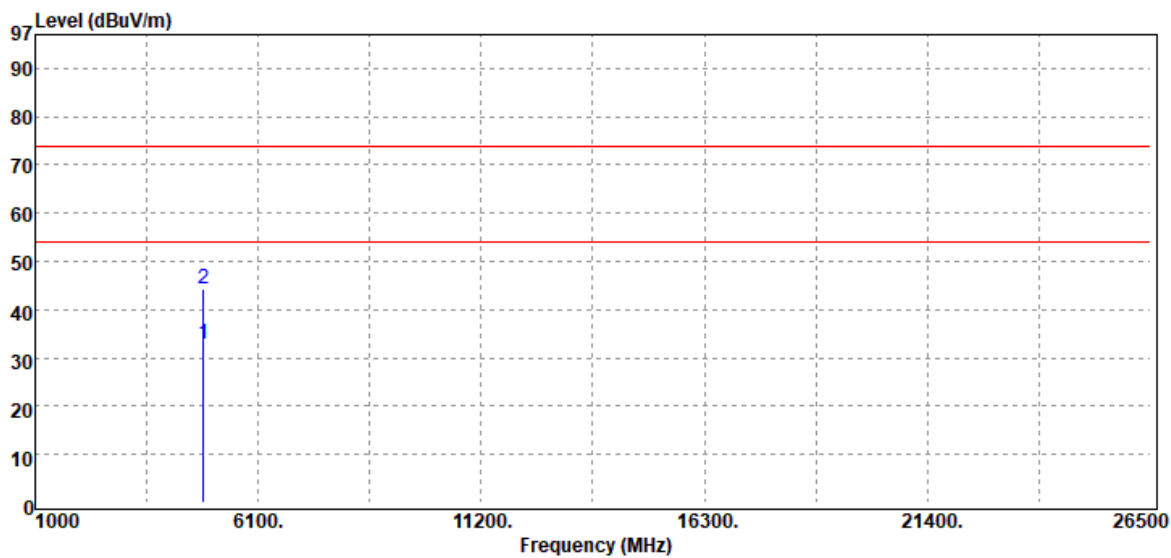
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2422 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4844.00	Average	26.20	6.60	32.80	54.00	-21.20
4844.00	Peak	37.76	6.60	44.36	74.00	-29.64

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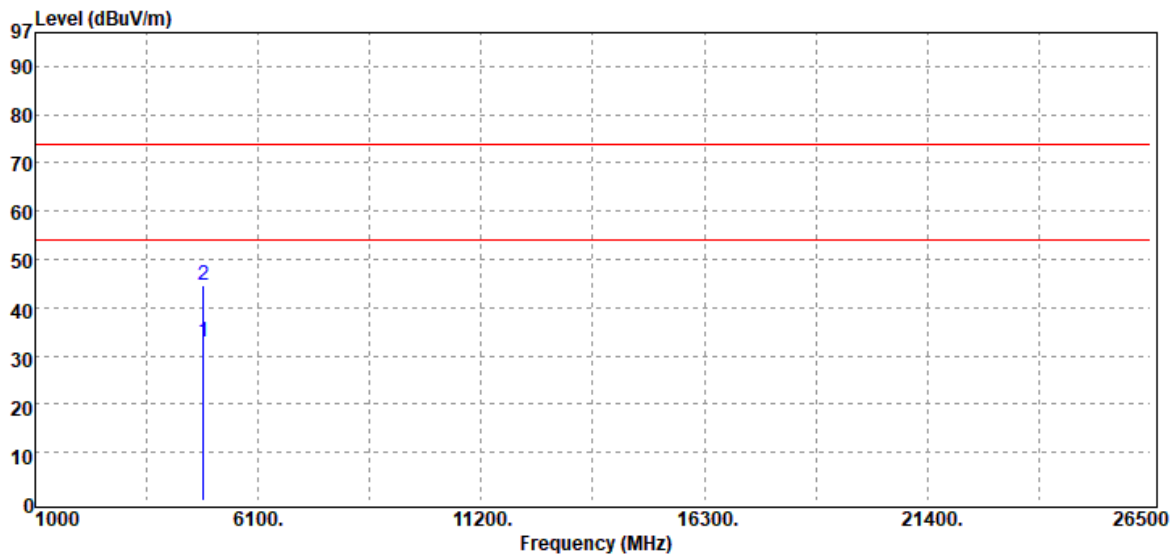
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2422 MHz
Test Mode :Tx CH Low
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4844.00	Average	26.14	6.60	32.74	54.00	-21.26
4844.00	Peak	37.93	6.60	44.53	74.00	-29.47

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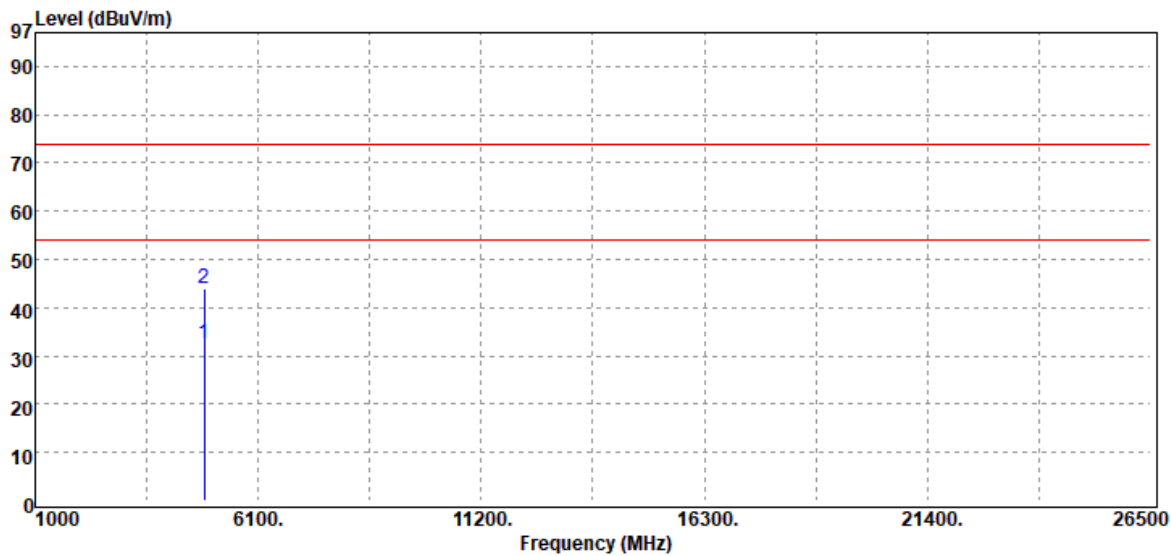
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	25.97	6.69	32.66	54.00	-21.34
4874.00	Peak	37.36	6.69	44.05	74.00	-29.95

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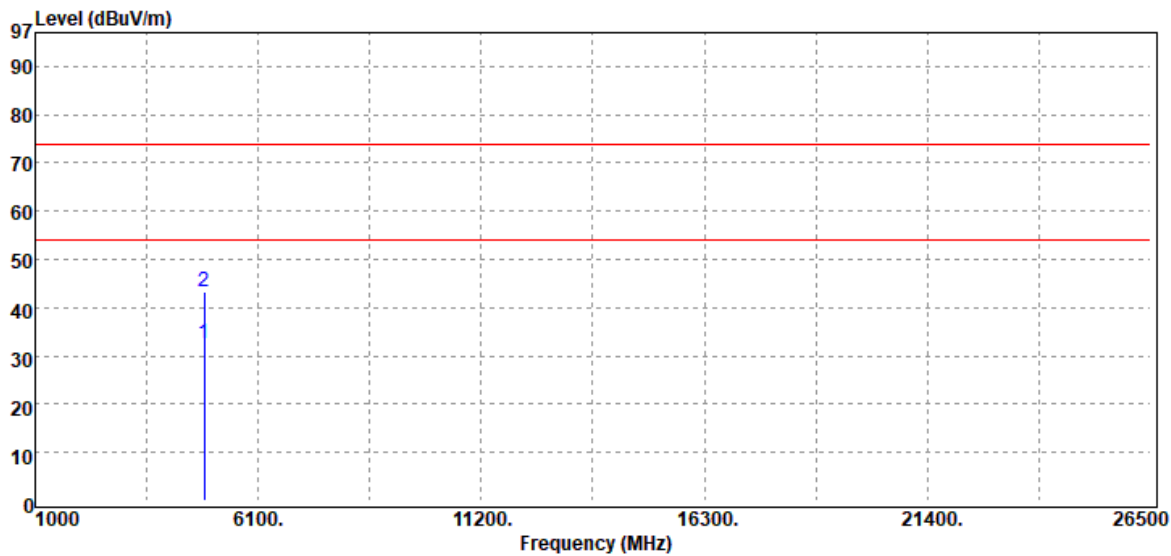
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2437 MHz
Test Mode :Tx CH Mid
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4874.00	Average	25.84	6.69	32.53	54.00	-21.47
4874.00	Peak	36.77	6.69	43.46	74.00	-30.54

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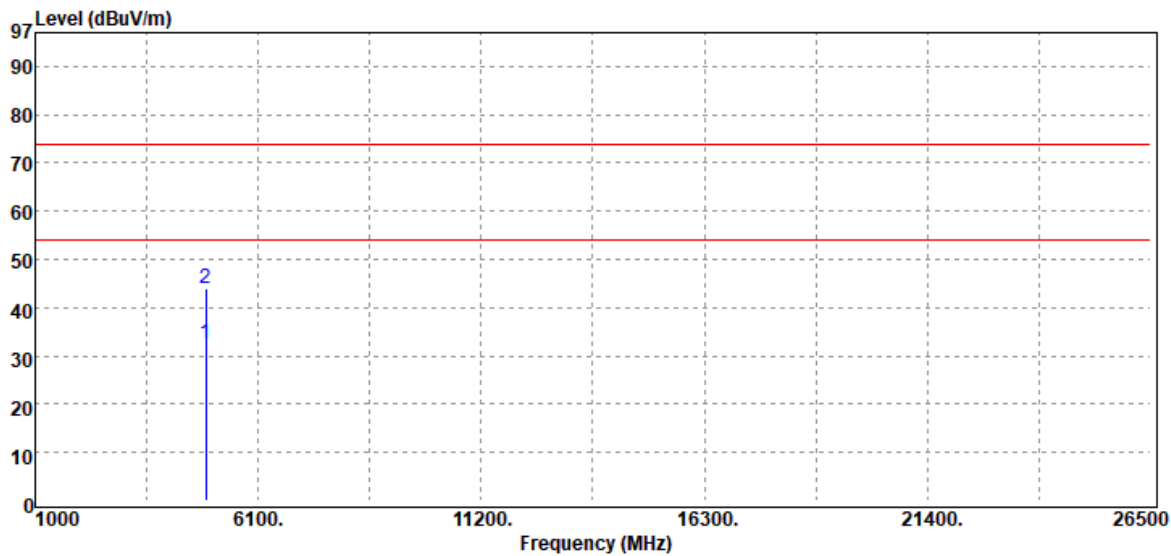
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2452 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :VERTICAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4904.00	Average	25.84	6.78	32.62	54.00	-21.38
4904.00	Peak	37.11	6.78	43.89	74.00	-30.11

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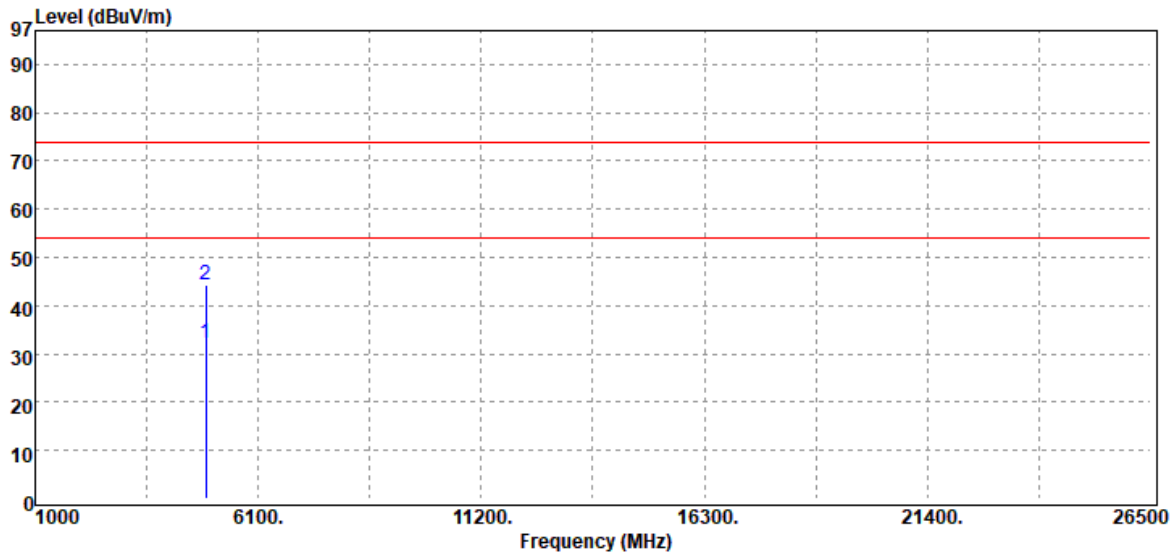
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Report Number :ER/2019/C0047
Operation Mode :802.11n40
Test Channel :2452 MHz
Test Mode :Tx CH High
EUT Pol :E2 Plane

Test Date :2019-11-24
Temp./Humi. :23.0/67
Antenna Pol. :HORIZONTAL
Engineer :Kane



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dB μ V	dB	dB μ V/m	dB μ V/m	dB
4904.00	Average	25.37	6.78	32.15	54.00	-21.85
4904.00	Peak	37.40	6.78	44.18	74.00	-29.82

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

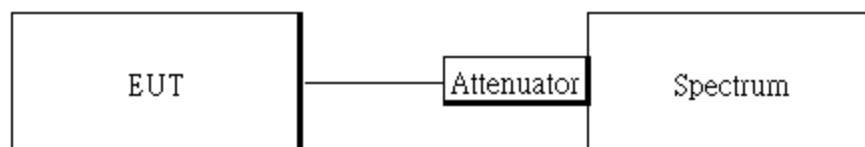
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

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.

12.2 Measurement Equipment Used

Conducted Emission Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY50420195	05/02/2019	05/01/2020
Attenuator	Mini-Circuit	BW-S10W2+	2	01/02/2019	01/01/2020
DC Block	Mini-Circuits	BLK-18-S+	1	01/02/2019	01/01/2020

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:

For the test of PSD at MIMO mode, the highest emission of worst case employing Measure and add 10 log (N) technical is reported on this report after the comparison between Main Antenna at single transmitting mode and Aux that yields the higher value. The MIMO transmitting mode produces higher value of outcome

12.5 As per FCC KDB 662911 D01

Unequal antenna gains, with equal transmit powers. For antenna gains given by G1, G2, ..., GN dBi.

(i) If transmit signals are correlated, then Directional gain

$$= 10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / N_{ANT}] \text{ dBi}$$

[Note the “20”s in the denominator of each exponent and the square of the sum of terms; the object is to combine the signal levels coherently.]

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

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12.6 Power spectral density

POWER DENSITY 802.11b_2TX			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-3.18	7.38	PASS
2437	-4.04	7.38	PASS
2462	-4.40	7.38	PASS

POWER DENSITY 802.11g_MIMO			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-11.56	7.38	PASS
2437	-10.01	7.38	PASS
2462	-11.09	7.38	PASS

POWER DENSITY 802.11n HT20_MIMO			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-12.76	7.38	PASS
2437	-6.61	7.38	PASS
2462	-11.21	7.38	PASS

POWER DENSITY 802.11n HT40_MIMO			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-16.09	7.38	PASS
2437	-15.55	7.38	PASS
2452	-13.81	7.38	PASS

POWER DENSITY 802.11ax HE20_MIMO			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412		7.38	PASS
2437		7.38	PASS
2462		7.38	PASS

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POWER DENSITY 802.11ax HE40_MIMO			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422		7.38	PASS
2437		7.38	PASS
2452		7.38	PASS

Note

Cable Loss 11.76 dB

*Refer to next page for plots

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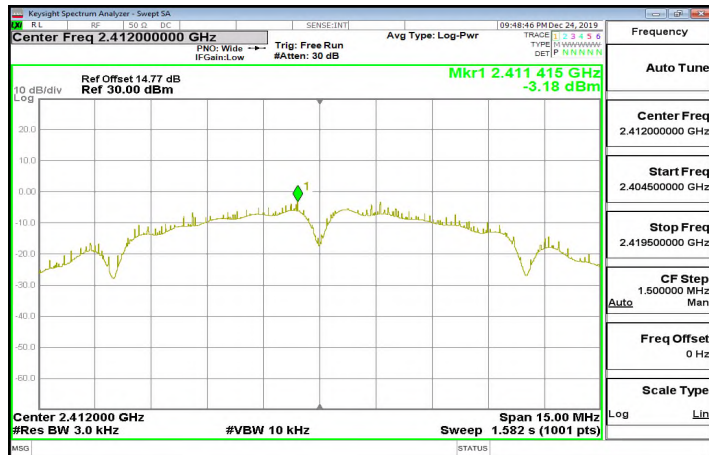
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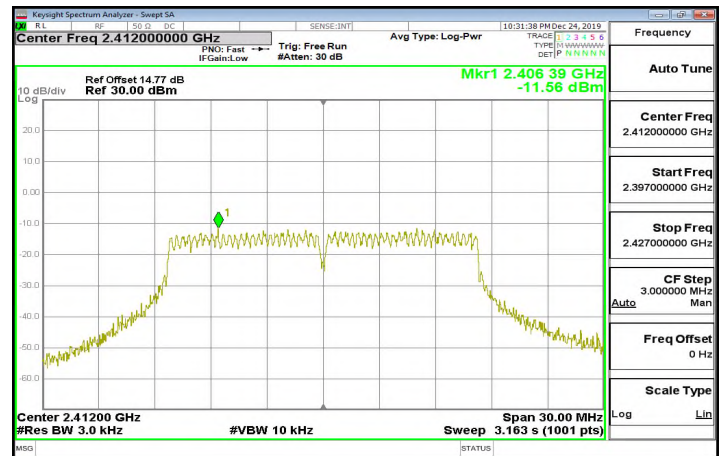
802.11b

Power Spectral Density Test Plot (CH-Low)

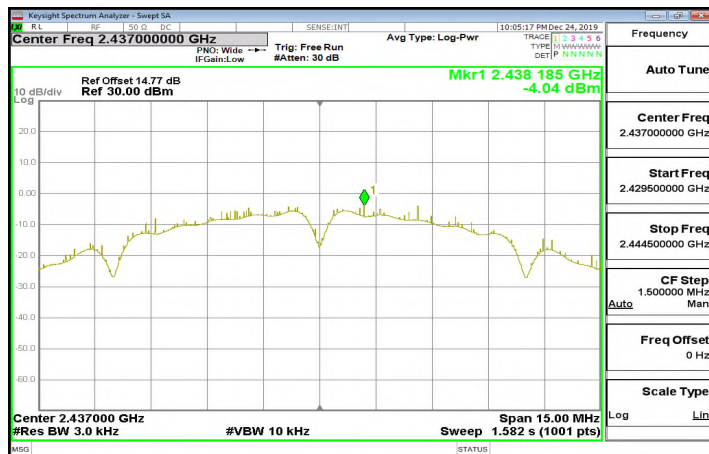


802.11g

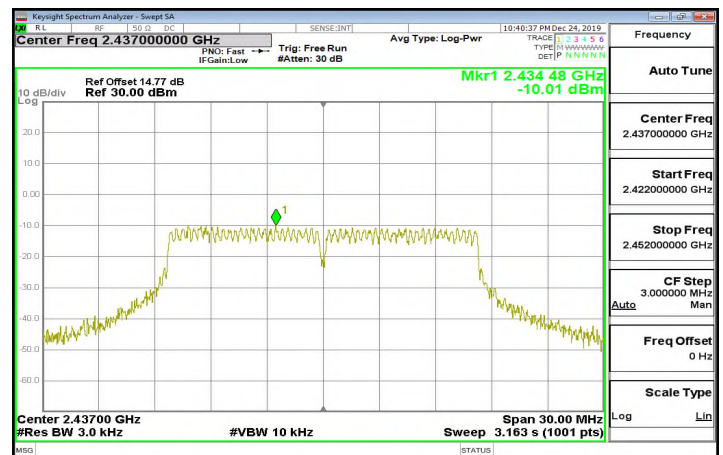
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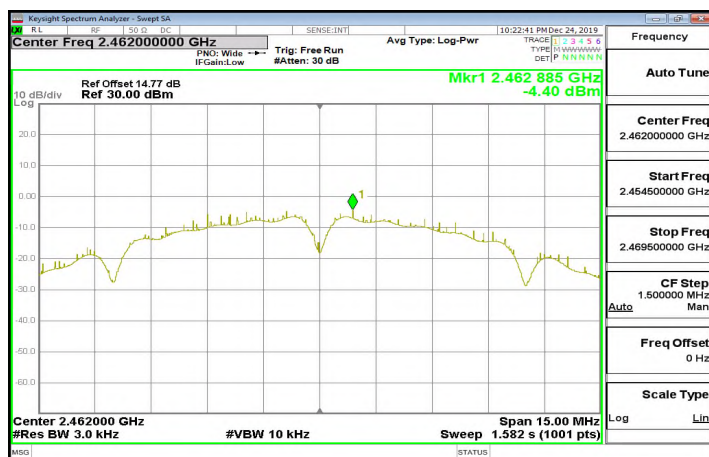
Power Spectral Density Test Plot (CH-Mid)



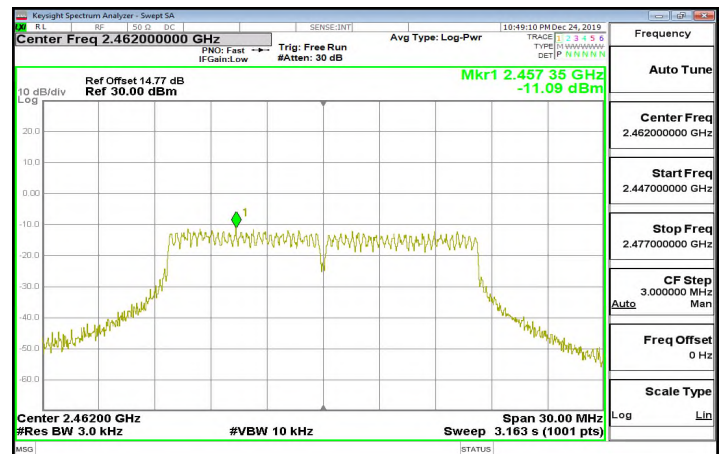
Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (CH-High)



Power Spectral Density Test Plot (CH-High)



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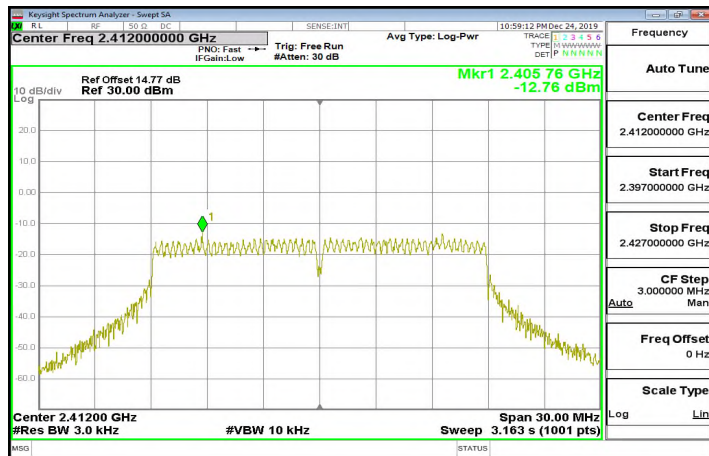
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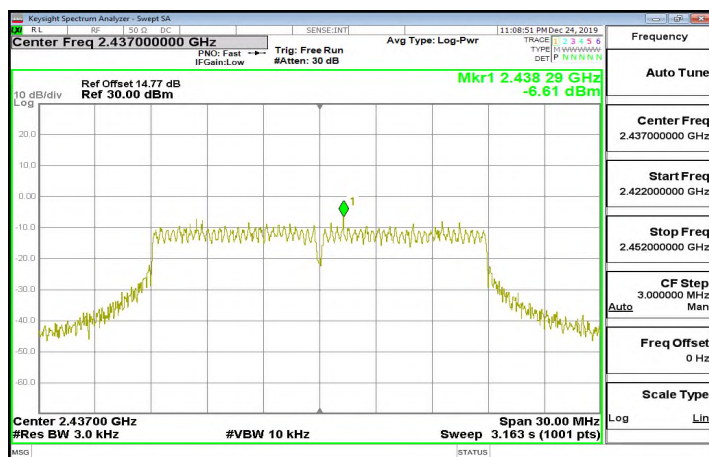
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802.11n_HT20

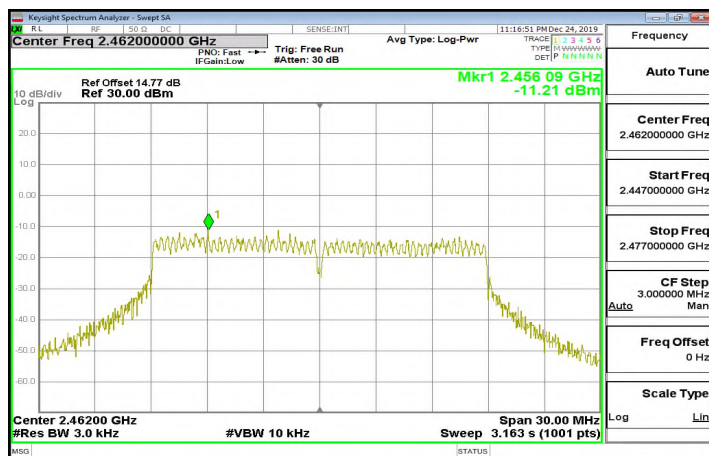
Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)

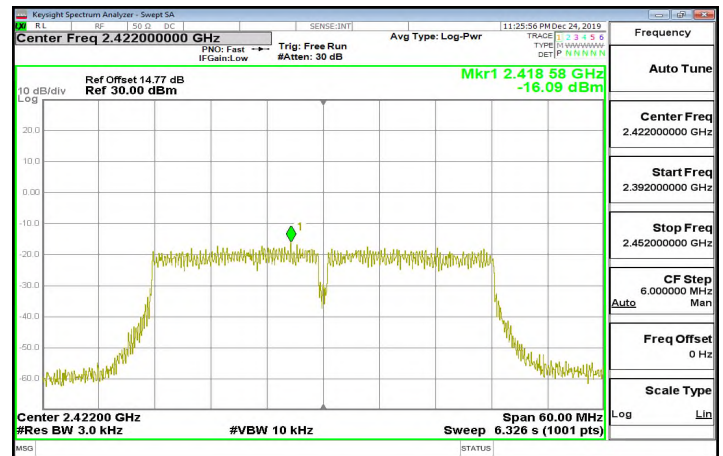


Power Spectral Density Test Plot (CH-High)

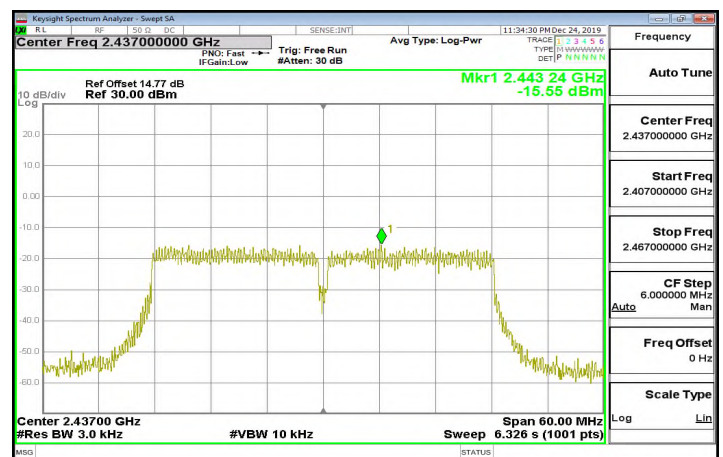


802.11n_HT40

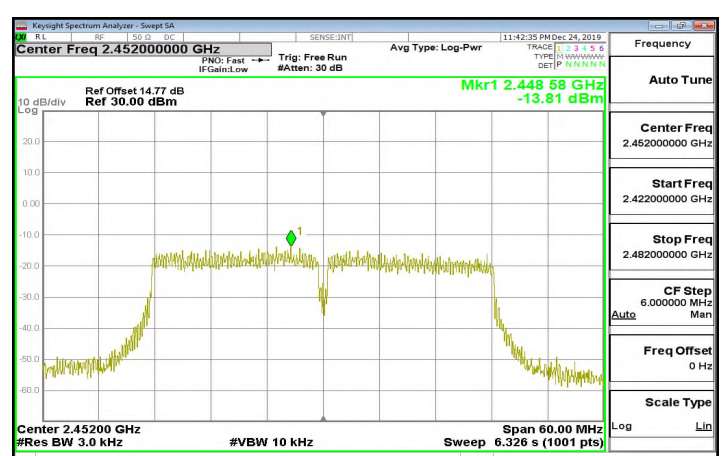
Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



Power Spectral Density Test Plot (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

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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