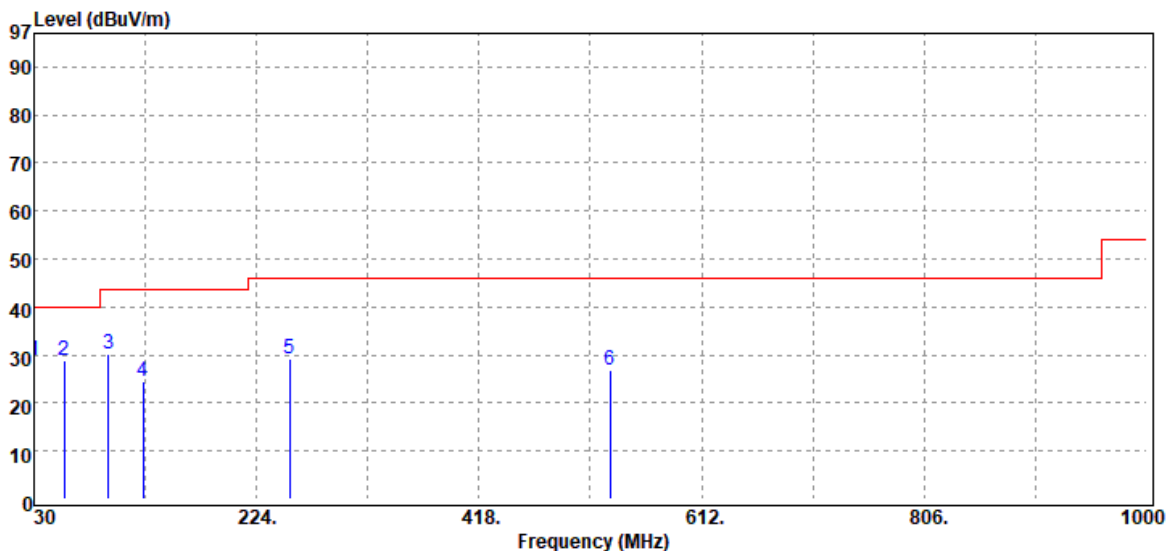


Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
30.00	Peak	38.55	-9.68	28.87	40.00	-11.13
56.19	Peak	37.77	-9.01	28.76	40.00	-11.24
94.99	Peak	44.29	-14.00	30.29	43.50	-13.21
125.06	Peak	33.83	-9.47	24.36	43.50	-19.14
253.10	Peak	37.96	-8.59	29.37	46.00	-16.63
532.46	Peak	29.23	-2.44	26.79	46.00	-19.21

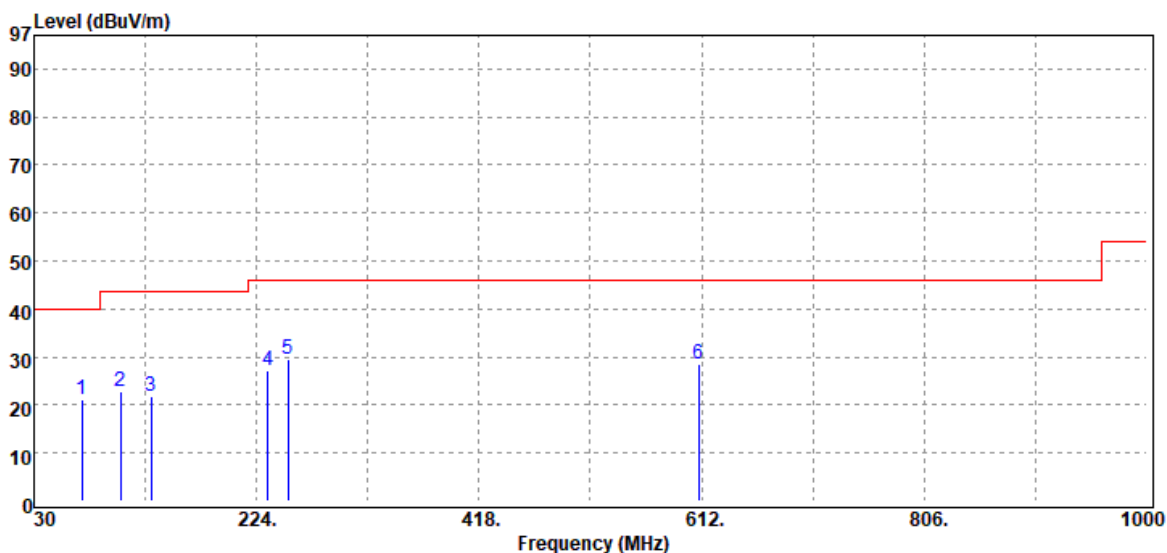
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
71.71	Peak	31.78	-10.50	21.28	40.00	-18.72
105.66	Peak	34.93	-12.03	22.90	43.50	-20.60
131.85	Peak	30.63	-8.81	21.82	43.50	-21.68
233.70	Peak	36.77	-9.42	27.35	46.00	-18.65
251.16	Peak	38.26	-8.72	29.54	46.00	-16.46
609.09	Peak	28.62	0.04	28.66	46.00	-17.34

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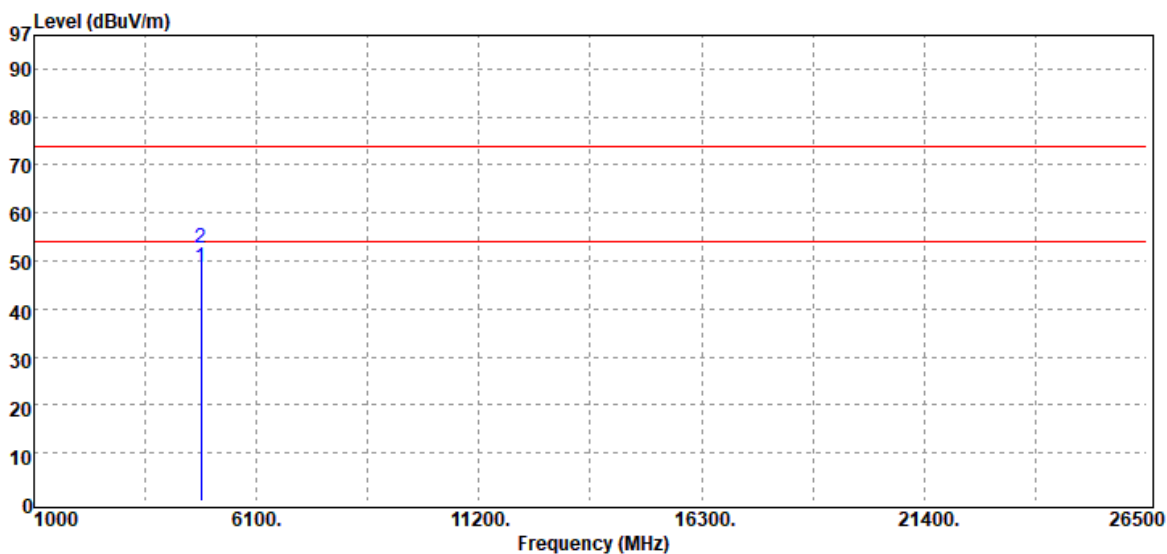
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11.7.3 Above 1GHz Emission:

CDD

Report Number	:ER-2021-20091	Test Site	:SAC III Chamber
Operation Mode	:802.11b	Test Date	:2021-03-04
Test Frequency	:2412 MHz	Temp./Humi.	:21.3/62
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	41.26	7.38	48.64	54.00	-5.36
4824.00	Peak	45.46	7.38	52.84	74.00	-21.16

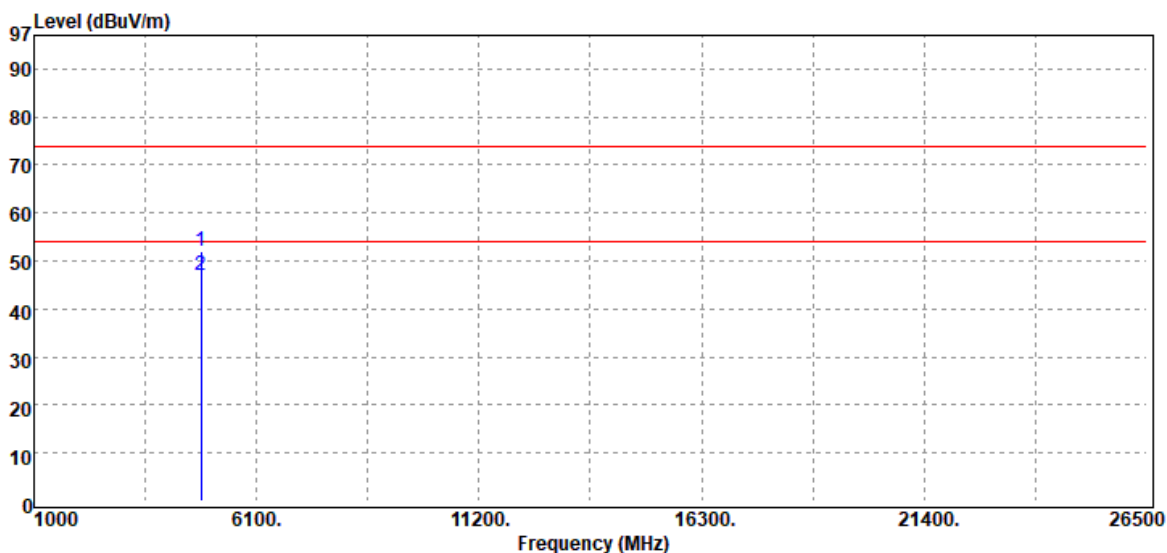
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Report Number :ER-2021-20091
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	44.58	7.38	51.96	54.00	-2.04
4824.00	Peak	39.70	7.38	47.08	74.00	-26.92

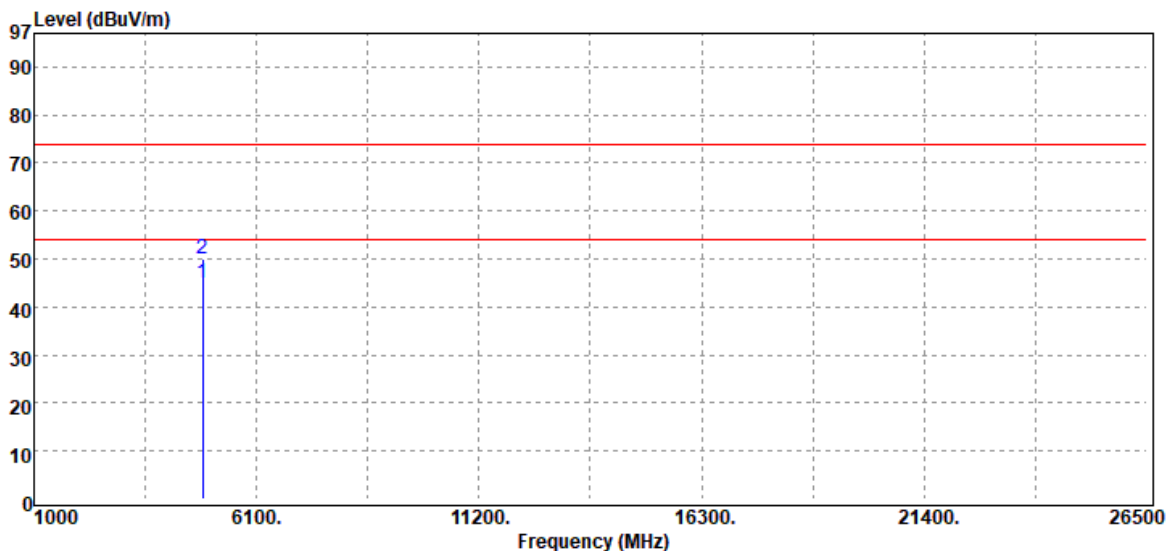
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Report Number :ER-2021-20091
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	37.96	7.09	45.05	54.00	-8.95
4874.00	Peak	42.90	7.09	49.99	74.00	-24.01

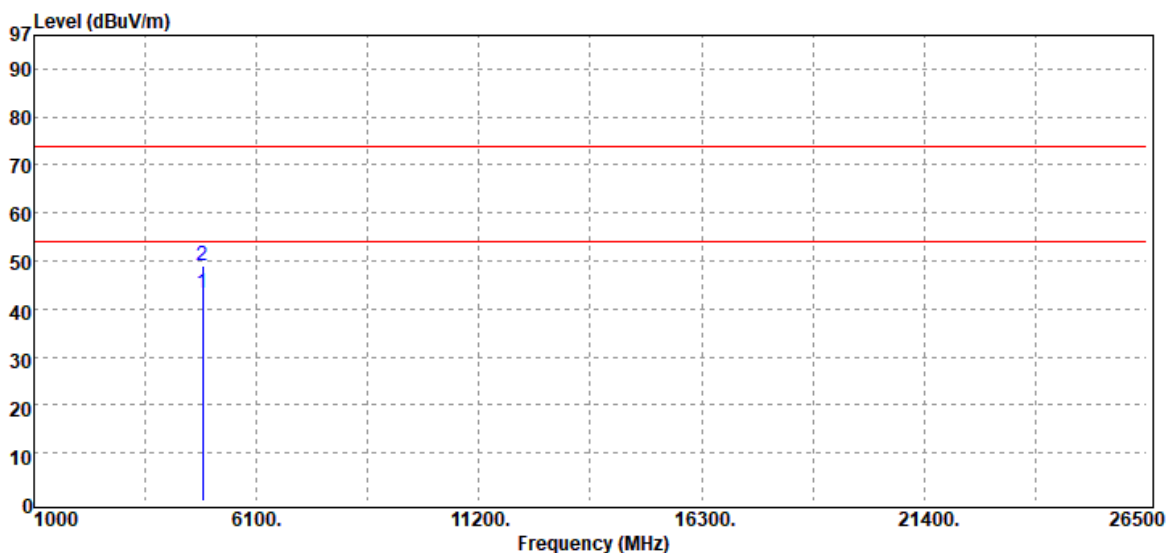
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Report Number :ER-2021-20091
 Operation Mode :802.11b
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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	36.32	7.09	43.41	54.00	-10.59
4874.00	Peak	41.97	7.09	49.06	74.00	-24.94

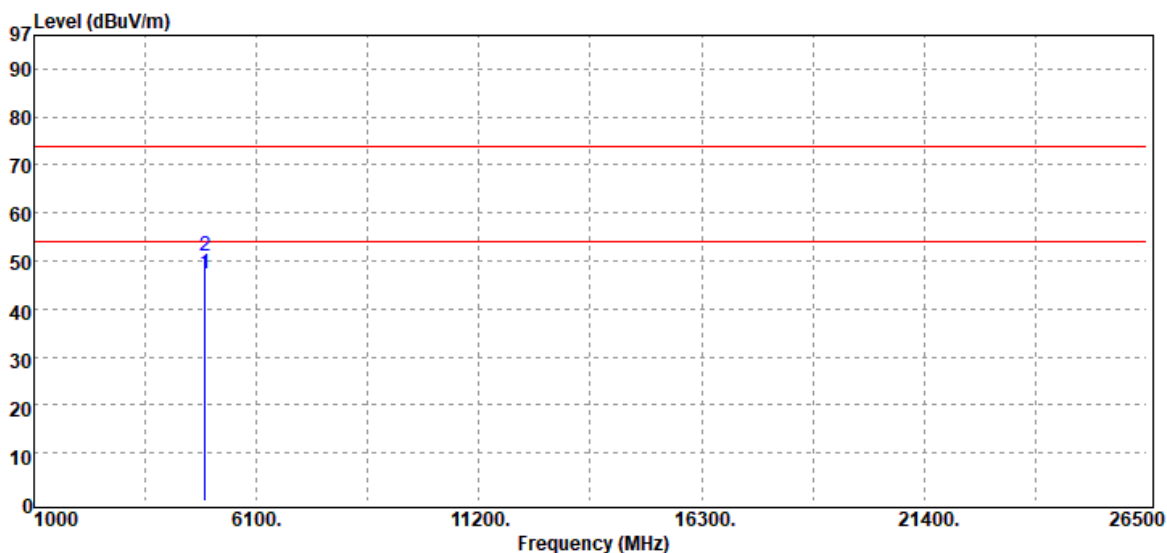
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Report Number :ER-2021-20091
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	40.24	7.06	47.30	54.00	-6.70
4924.00	Peak	44.12	7.06	51.18	74.00	-22.82

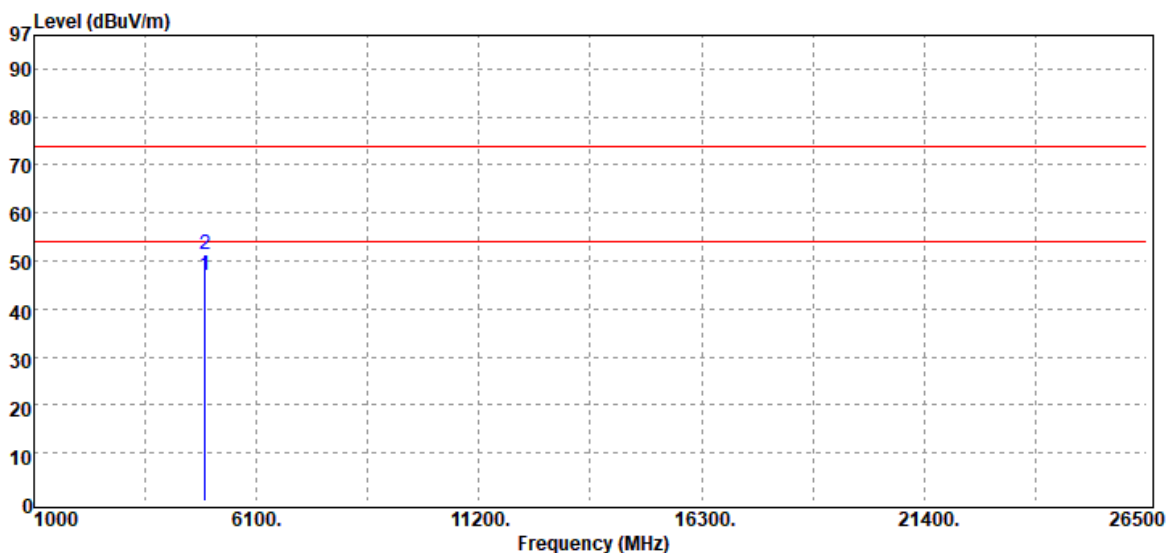
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Report Number :ER-2021-20091
 Operation Mode :802.11b
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	39.89	7.06	46.95	54.00	-7.05
4924.00	Peak	44.37	7.06	51.43	74.00	-22.57

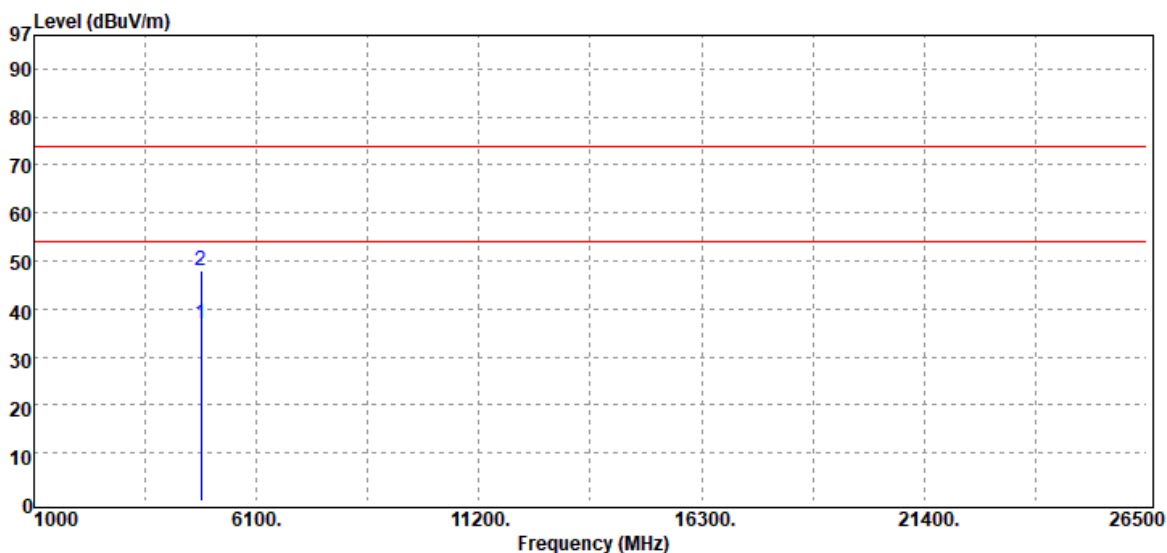
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	29.50	7.38	36.88	54.00	-17.12
4824.00	Peak	40.51	7.38	47.89	74.00	-26.11

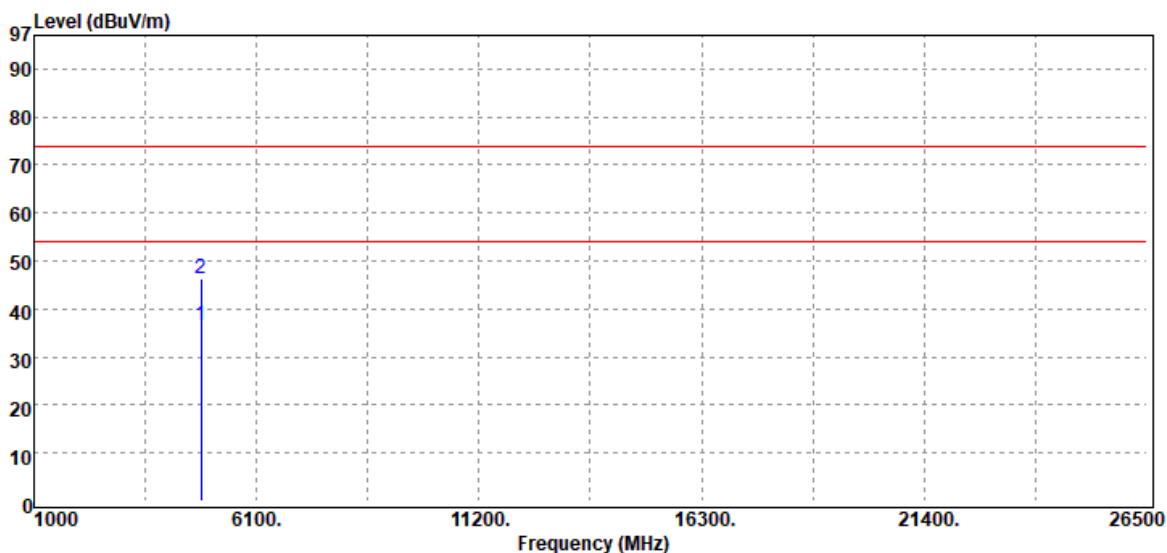
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	29.21	7.38	36.59	54.00	-17.41
4824.00	Peak	39.04	7.38	46.42	74.00	-27.58

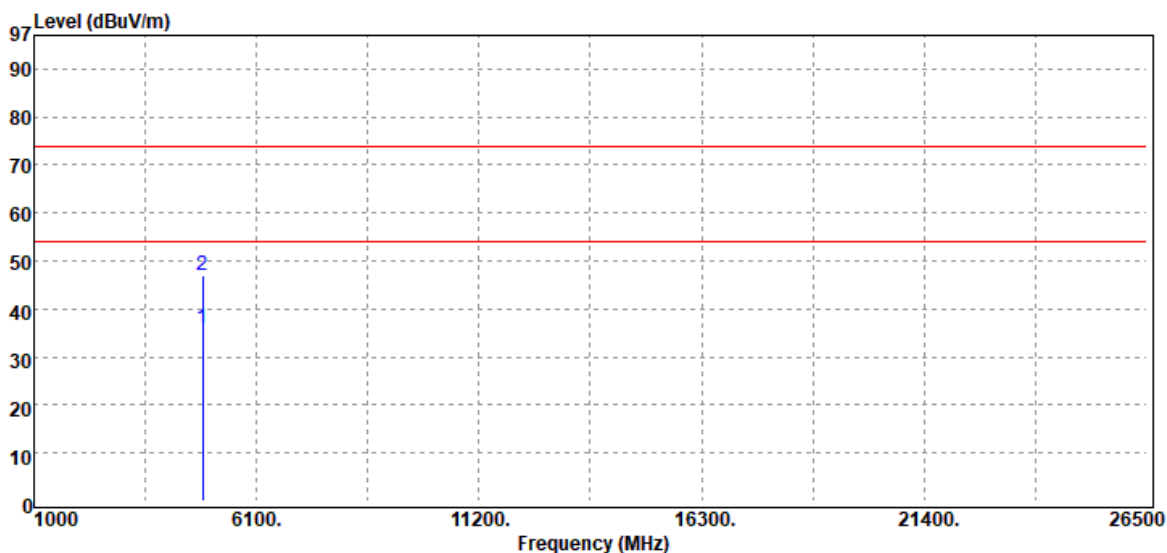
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	28.83	7.09	35.92	54.00	-18.08
4874.00	Peak	39.93	7.09	47.02	74.00	-26.98

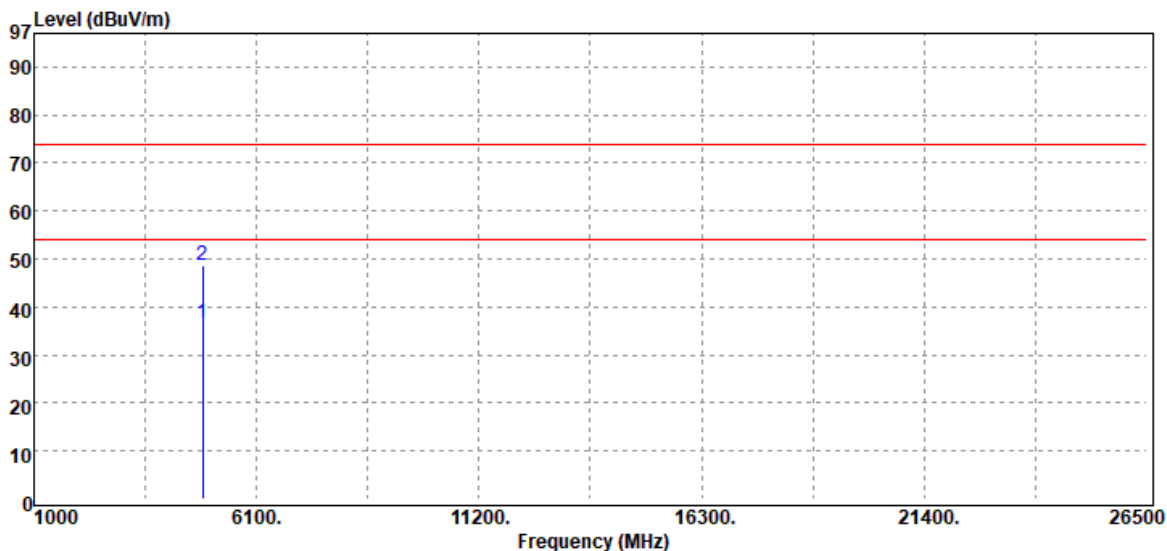
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	29.56	7.09	36.65	54.00	-17.35
4874.00	Peak	41.60	7.09	48.69	74.00	-25.31

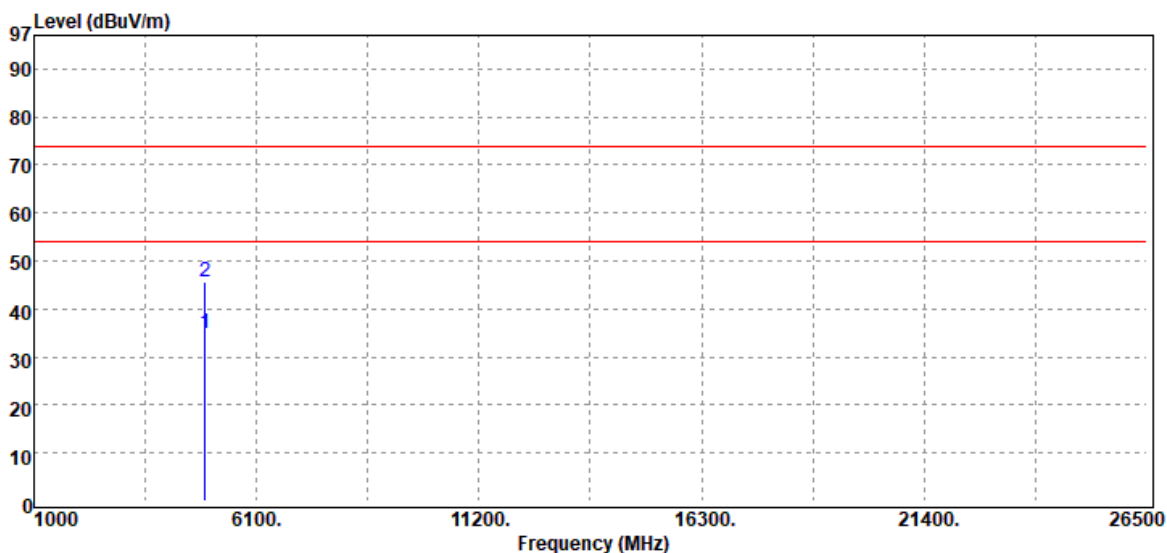
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	27.98	7.06	35.04	54.00	-18.96
4924.00	Peak	38.51	7.06	45.57	74.00	-28.43

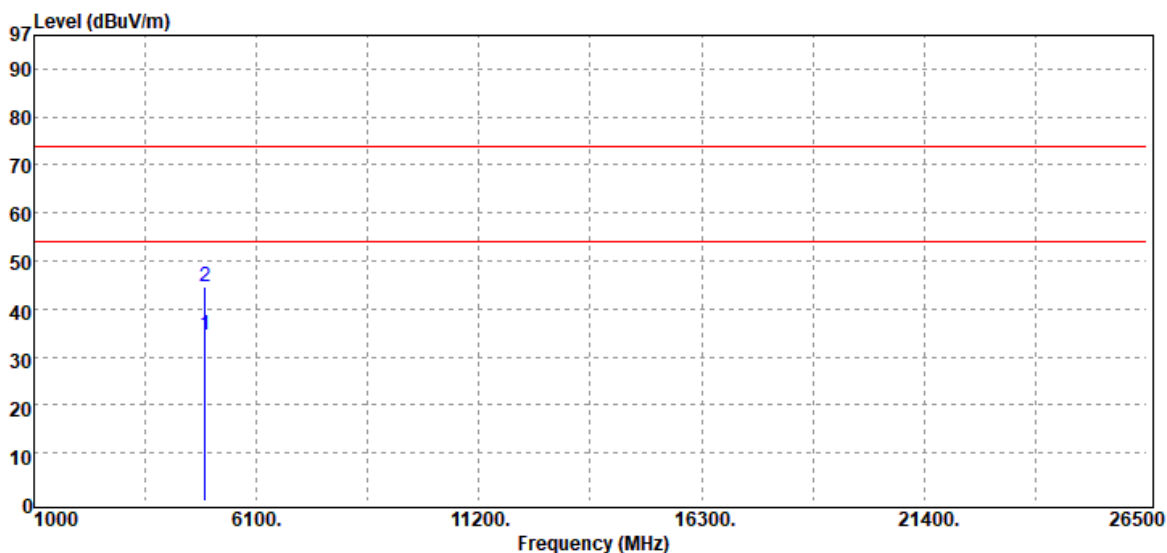
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Report Number :ER-2021-20091
 Operation Mode :802.11g
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	27.67	7.06	34.73	54.00	-19.27
4924.00	Peak	37.63	7.06	44.69	74.00	-29.31

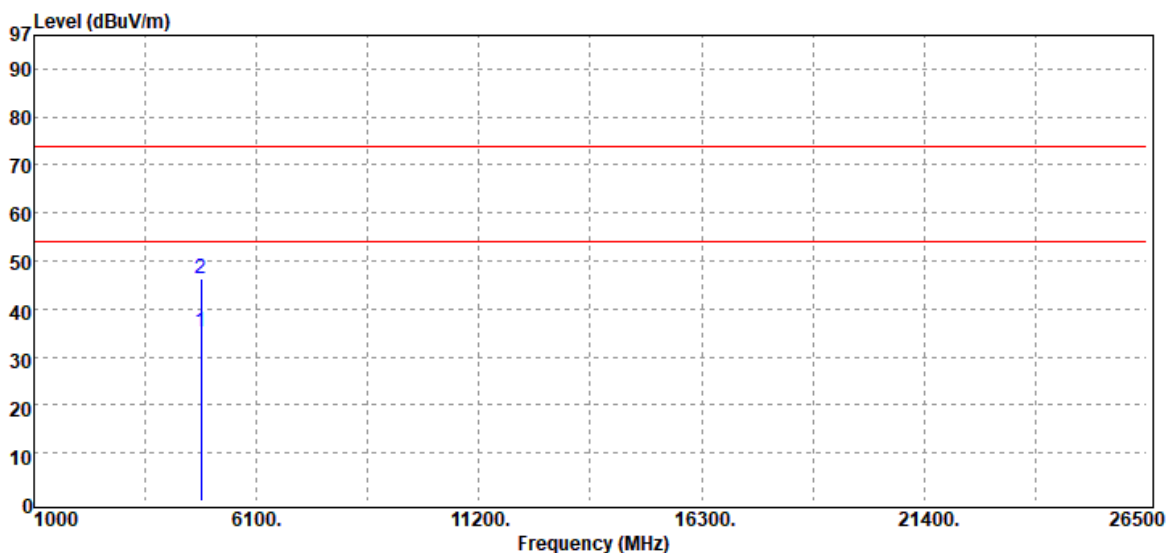
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	27.83	7.38	35.21	54.00	-18.79
4824.00	Peak	39.02	7.38	46.40	74.00	-27.60

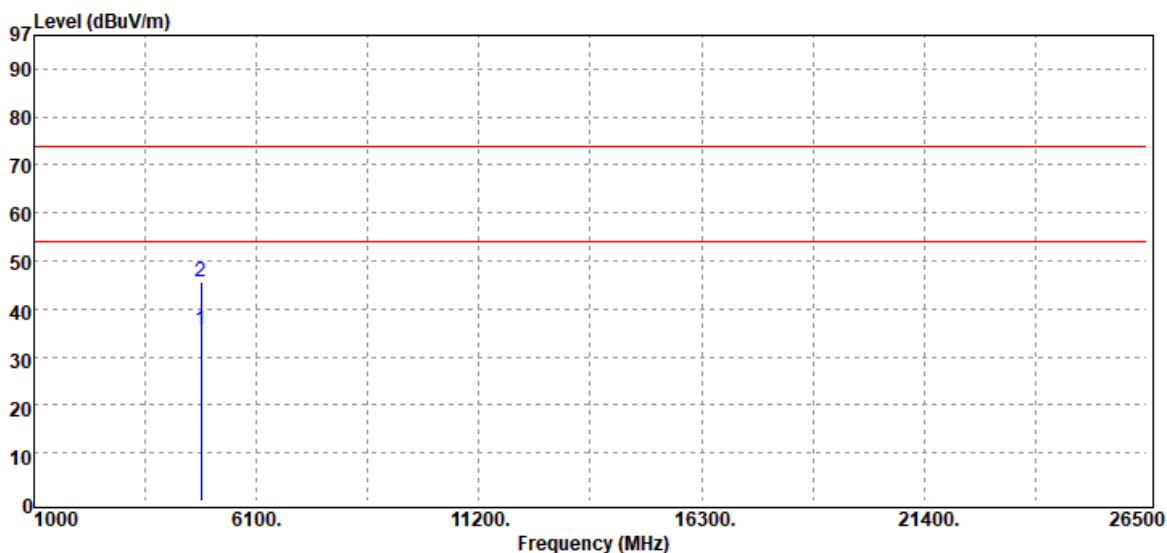
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	28.11	7.38	35.49	54.00	-18.51
4824.00	Peak	38.42	7.38	45.80	74.00	-28.20

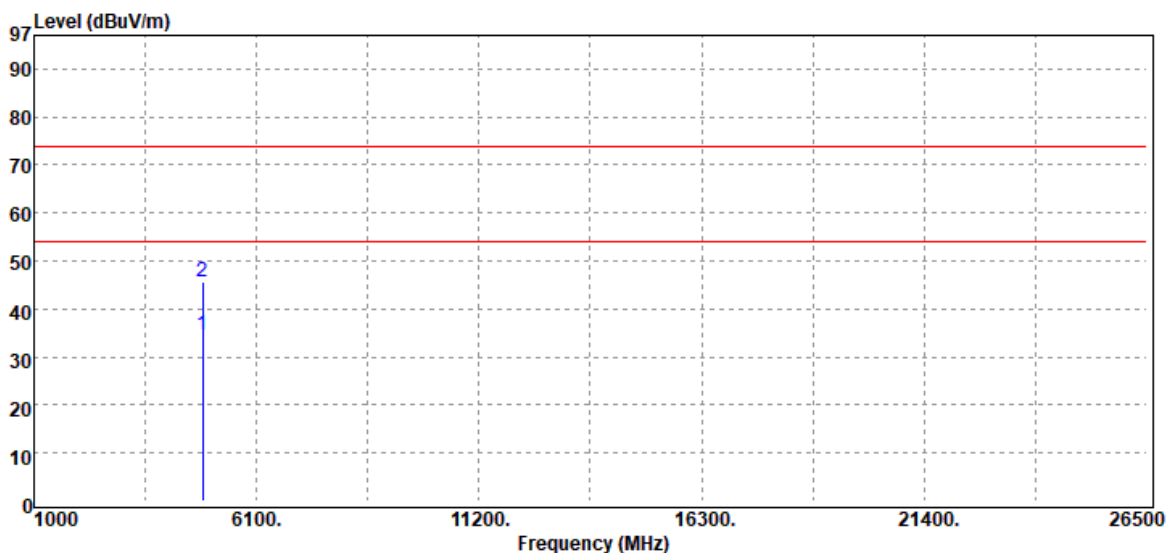
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	27.58	7.09	34.67	54.00	-19.33
4874.00	Peak	38.70	7.09	45.79	74.00	-28.21

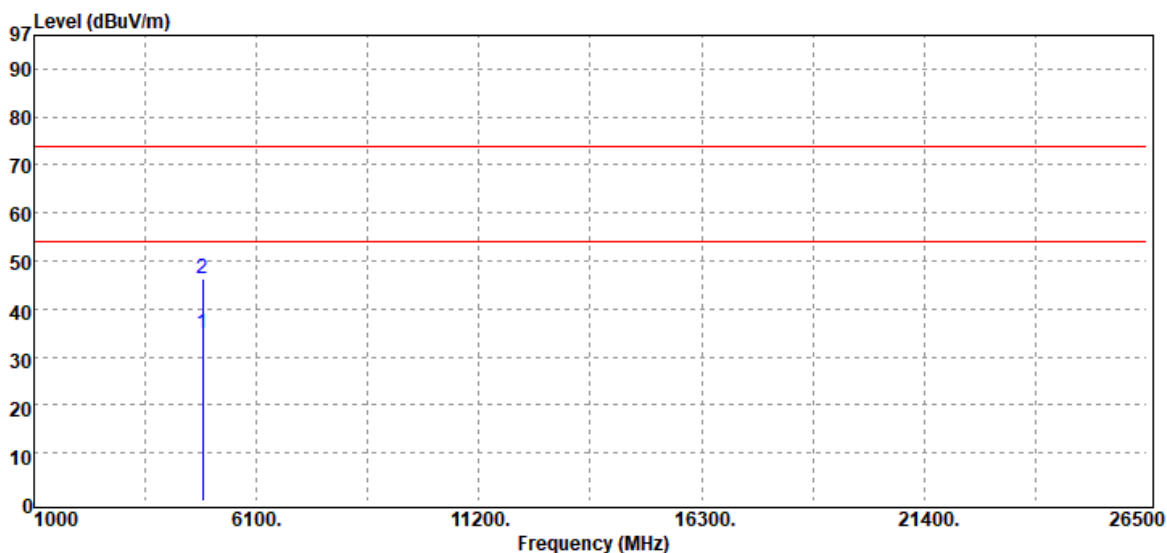
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	27.85	7.09	34.94	54.00	-19.06
4874.00	Peak	39.09	7.09	46.18	74.00	-27.82

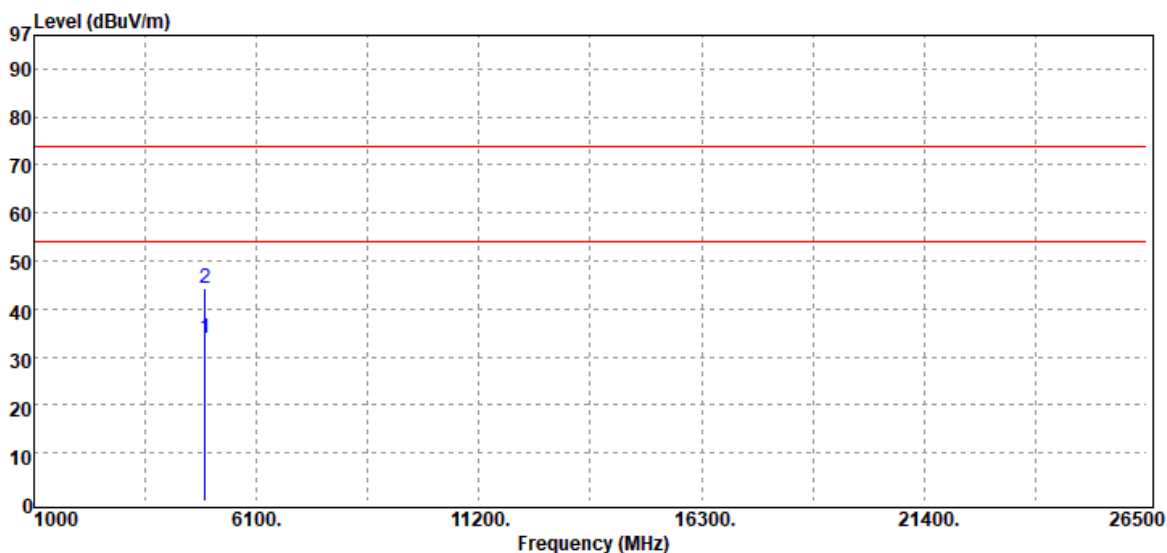
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	26.69	7.06	33.75	54.00	-20.25
4924.00	Peak	37.37	7.06	44.43	74.00	-29.57

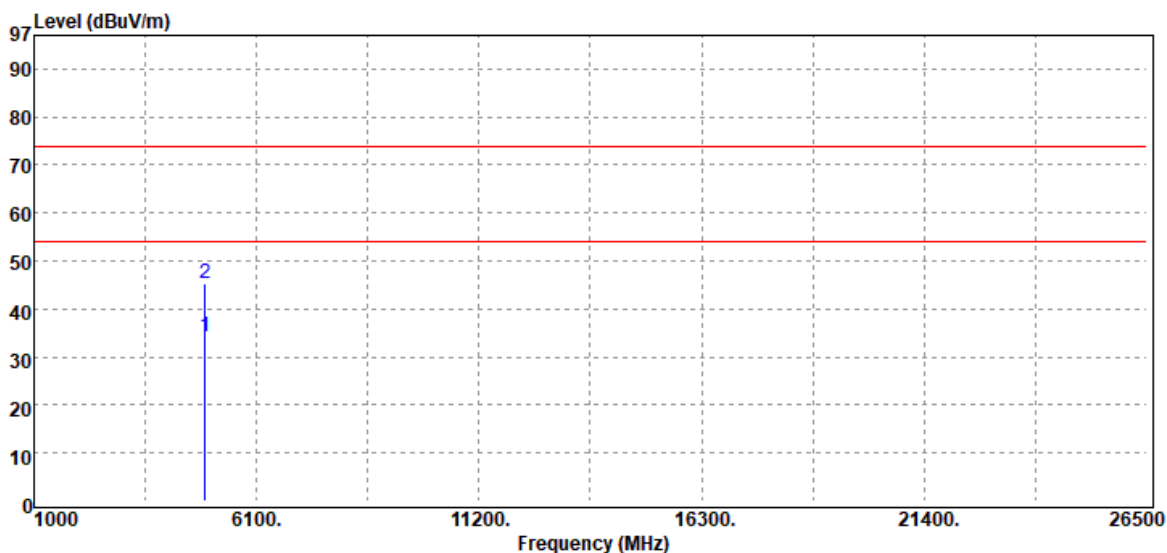
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	27.12	7.06	34.18	54.00	-19.82
4924.00	Peak	38.24	7.06	45.30	74.00	-28.70

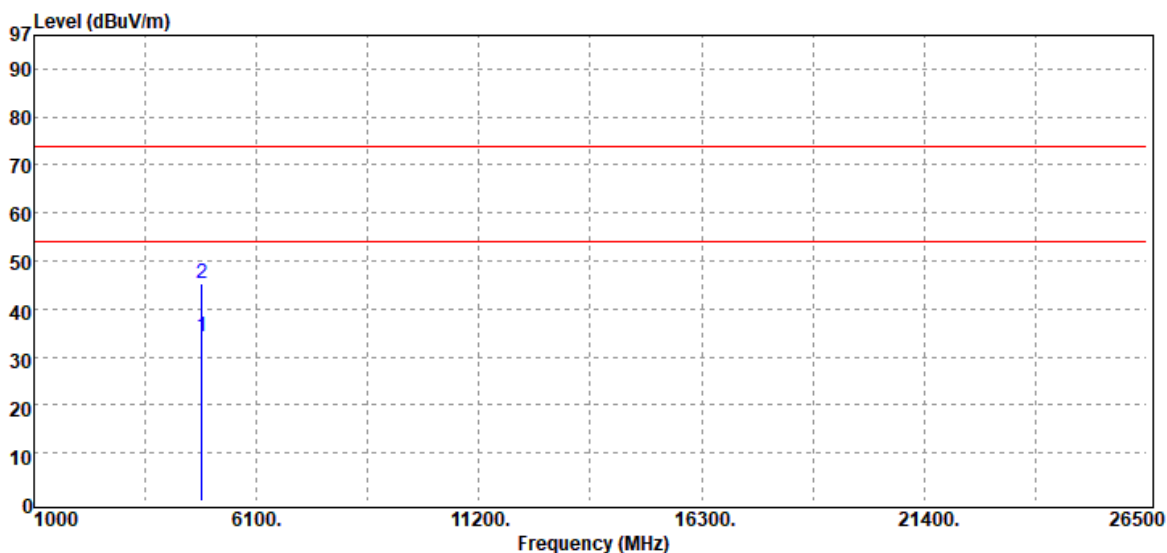
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



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	27.03	7.29	34.32	54.00	-19.68
4844.00	Peak	37.98	7.29	45.27	74.00	-28.73

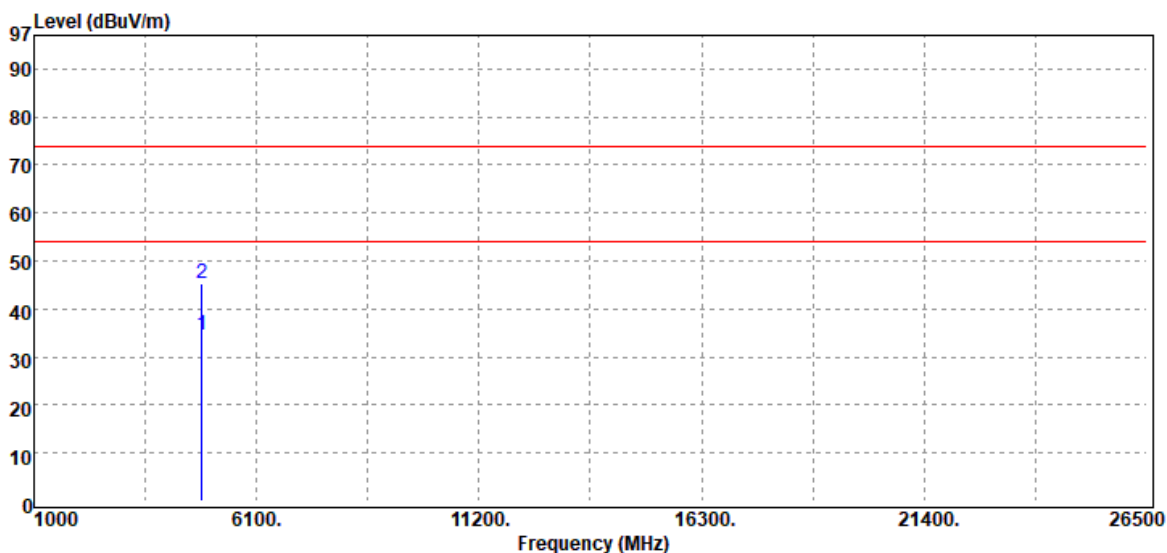
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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	27.24	7.29	34.53	54.00	-19.47
4844.00	Peak	37.90	7.29	45.19	74.00	-28.81

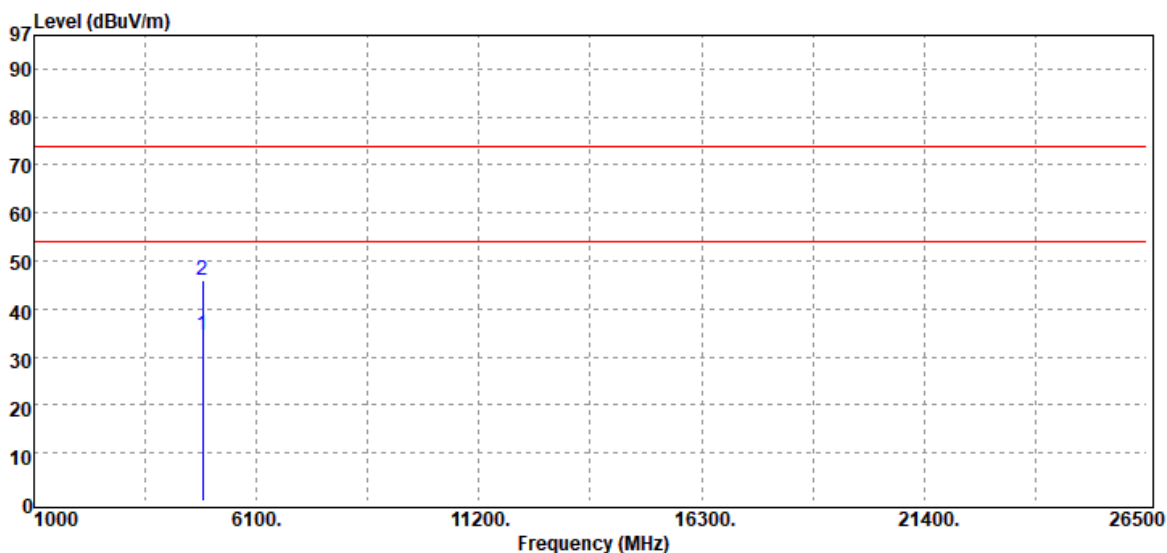
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	27.46	7.09	34.55	54.00	-19.45
4874.00	Peak	38.82	7.09	45.91	74.00	-28.09

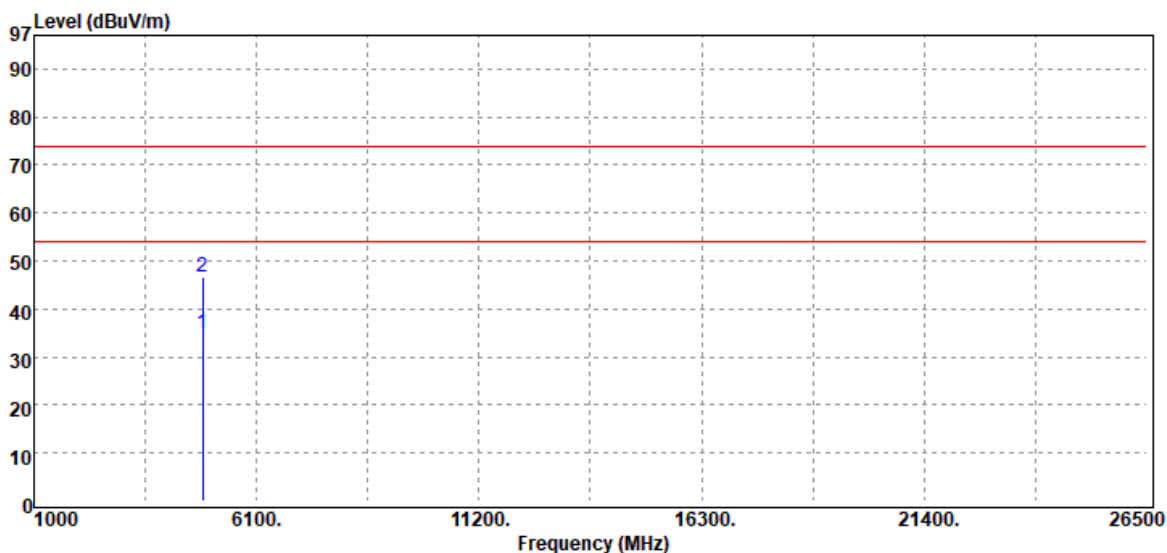
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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	27.83	7.09	34.92	54.00	-19.08
4874.00	Peak	39.60	7.09	46.69	74.00	-27.31

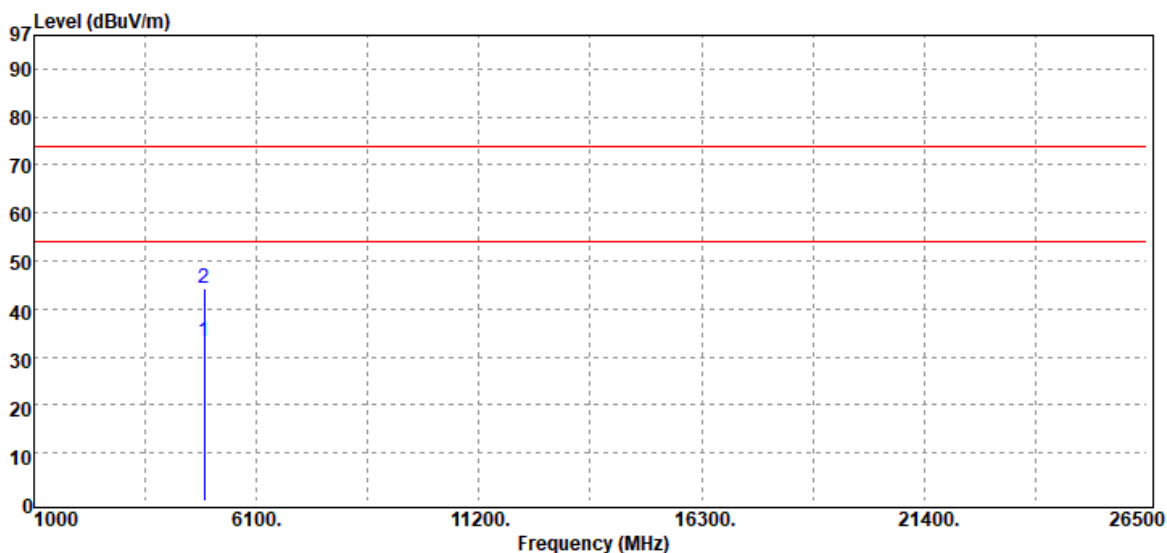
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	Average	26.23	6.93	33.16	54.00	-20.84
4904.00	Peak	37.42	6.93	44.35	74.00	-29.65

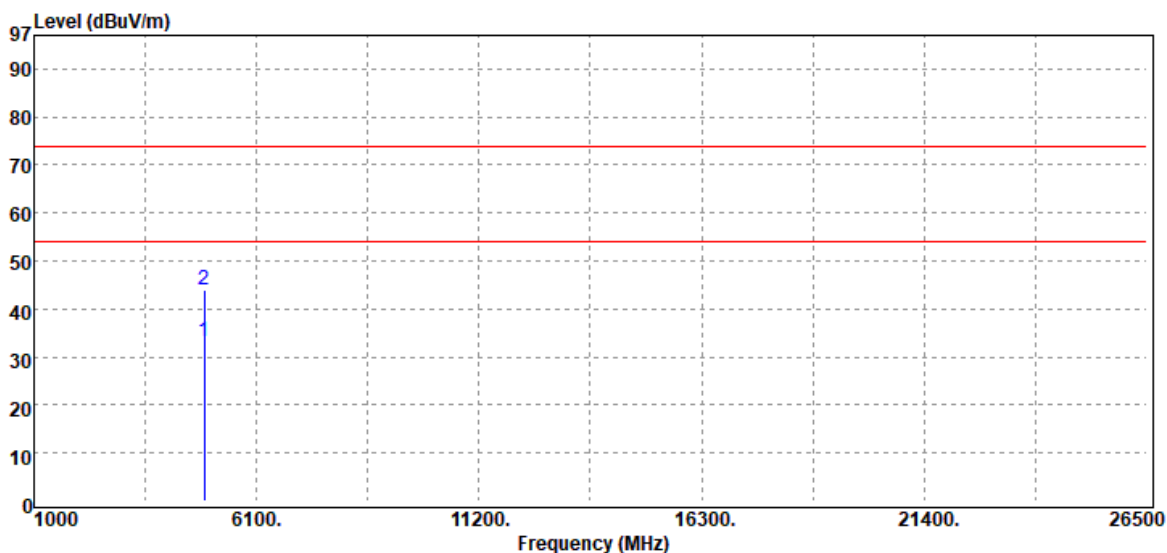
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	Average	26.21	6.93	33.14	54.00	-20.86
4904.00	Peak	36.94	6.93	43.87	74.00	-30.13

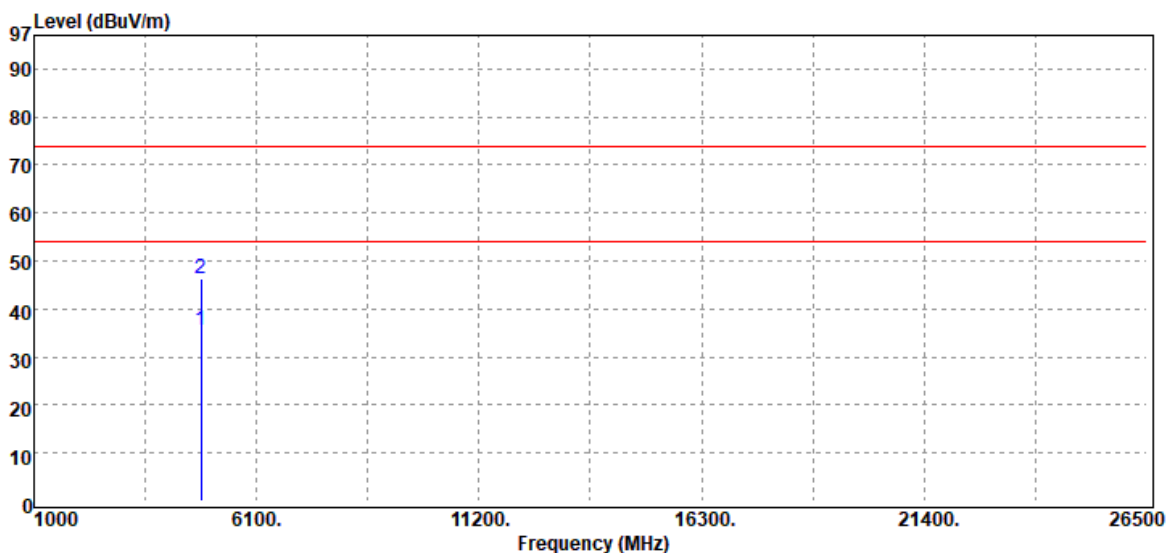
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	28.36	7.38	35.74	54.00	-18.26
4824.00	Peak	38.79	7.38	46.17	74.00	-27.83

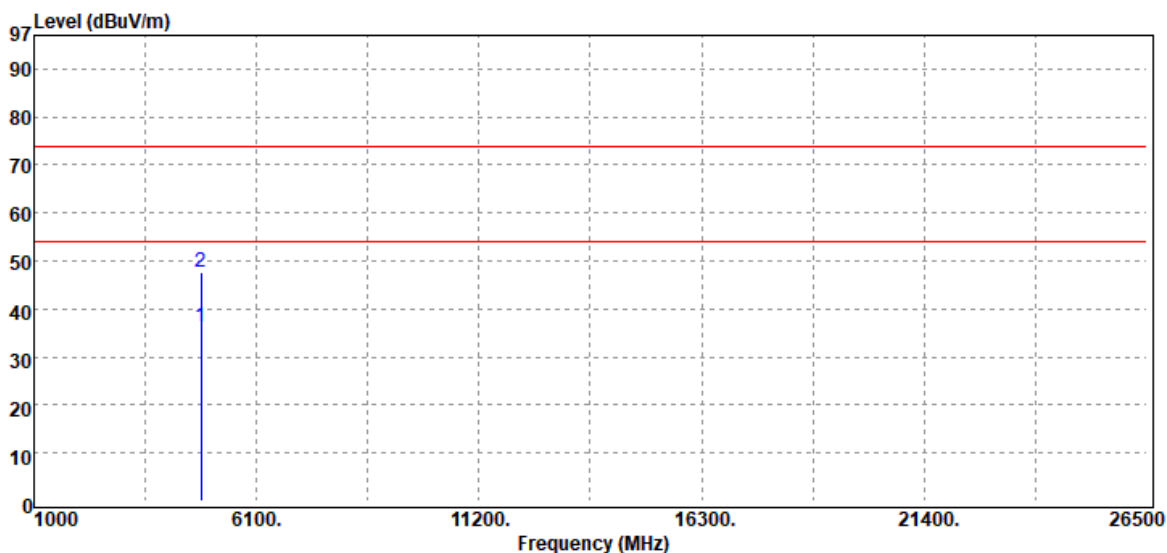
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	28.91	7.38	36.29	54.00	-17.71
4824.00	Peak	40.41	7.38	47.79	74.00	-26.21

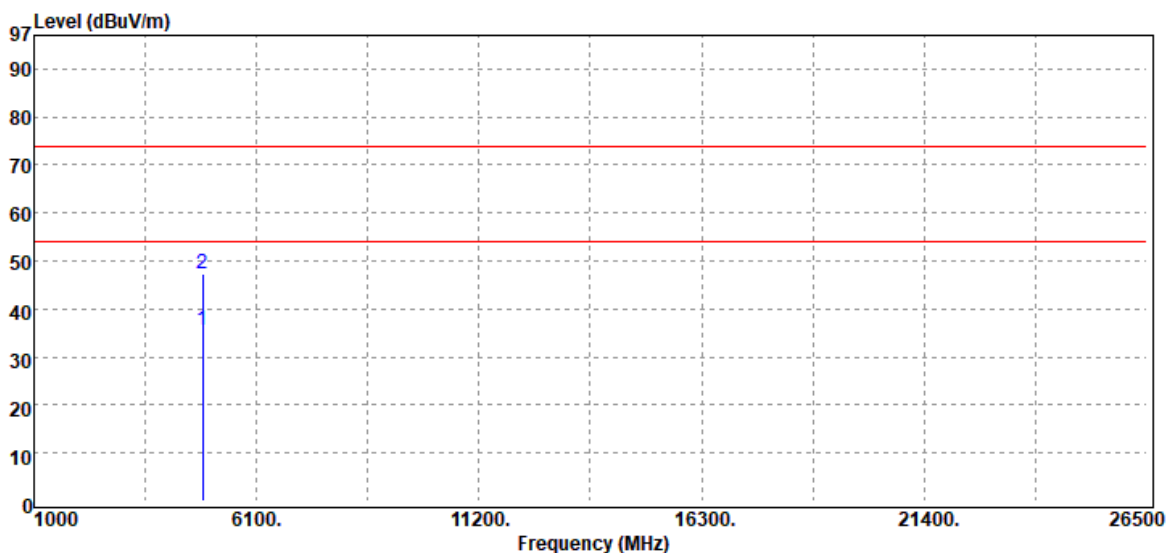
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	28.50	7.09	35.59	54.00	-18.41
4874.00	Peak	40.19	7.09	47.28	74.00	-26.72

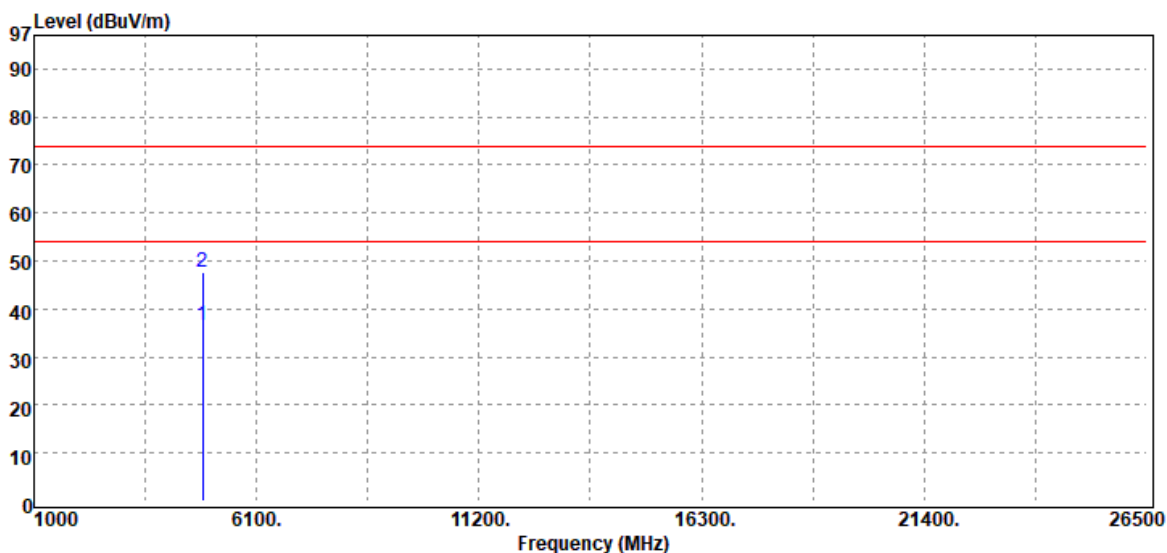
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	29.64	7.09	36.73	54.00	-17.27
4874.00	Peak	40.46	7.09	47.55	74.00	-26.45

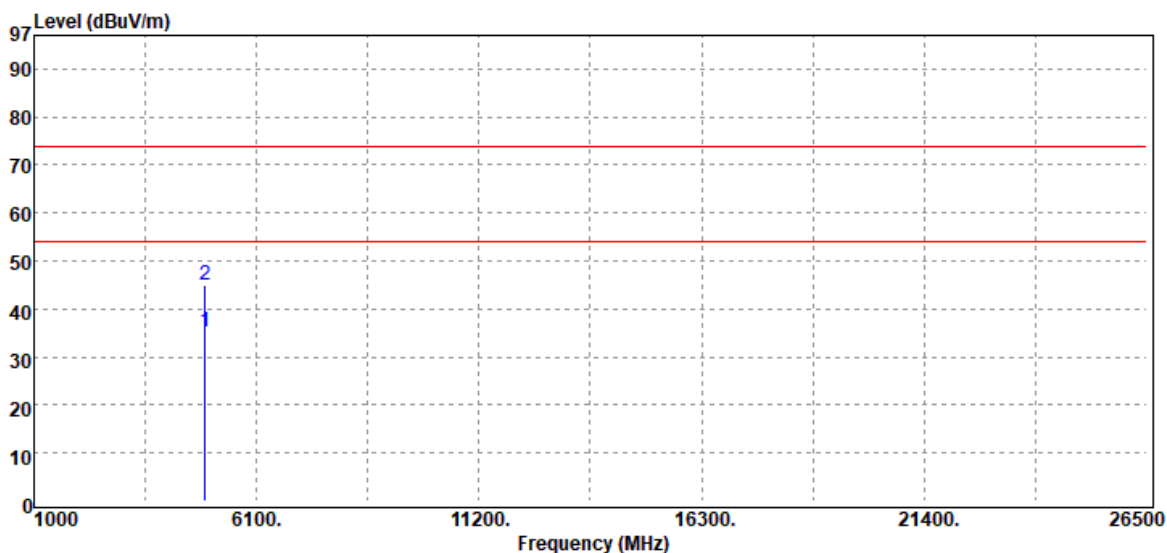
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	28.21	7.06	35.27	54.00	-18.73
4924.00	Peak	37.95	7.06	45.01	74.00	-28.99

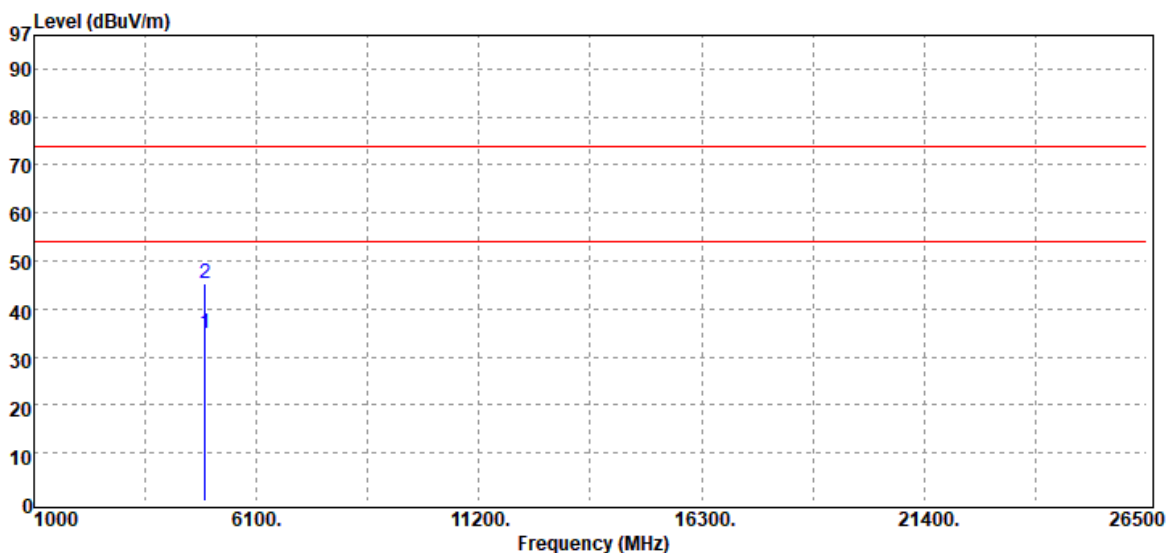
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20 RU full
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	27.95	7.06	35.01	54.00	-18.99
4924.00	Peak	38.40	7.06	45.46	74.00	-28.54

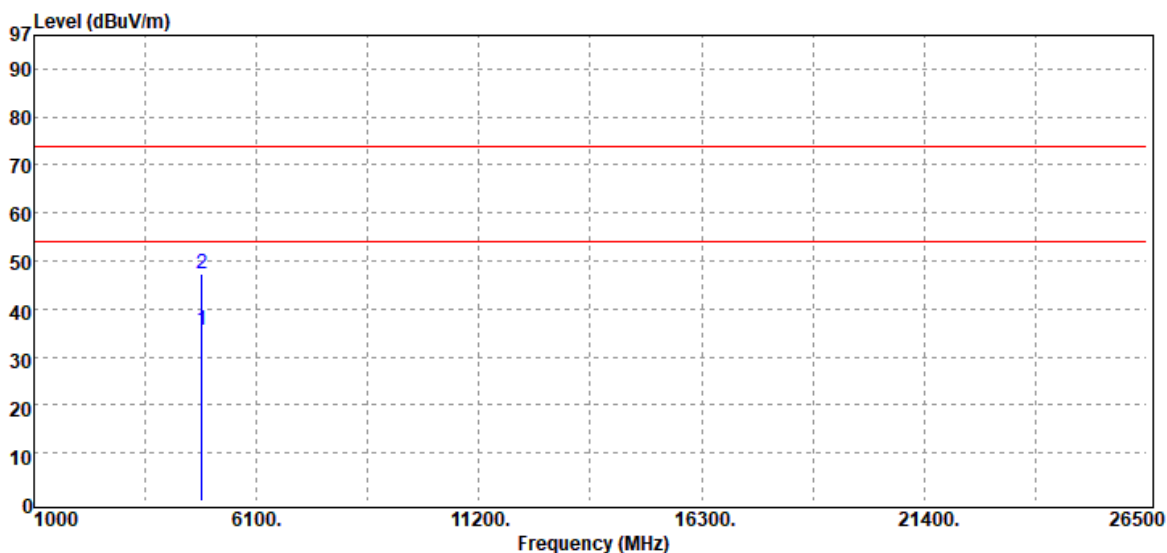
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



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	28.26	7.29	35.55	54.00	-18.45
4844.00	Peak	40.12	7.29	47.41	74.00	-26.59

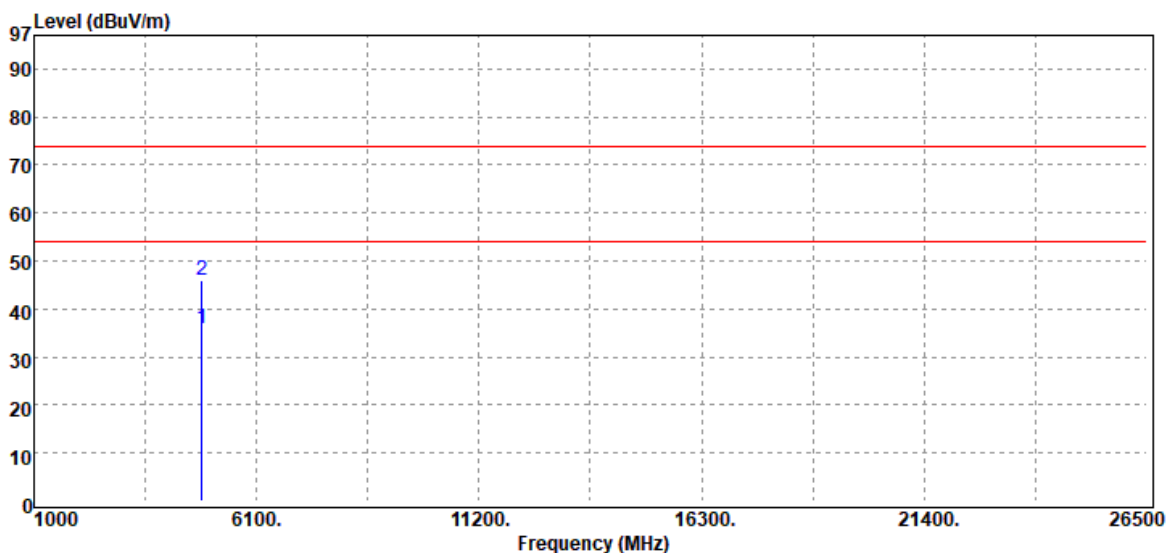
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



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	28.78	7.29	36.07	54.00	-17.93
4844.00	Peak	38.63	7.29	45.92	74.00	-28.08

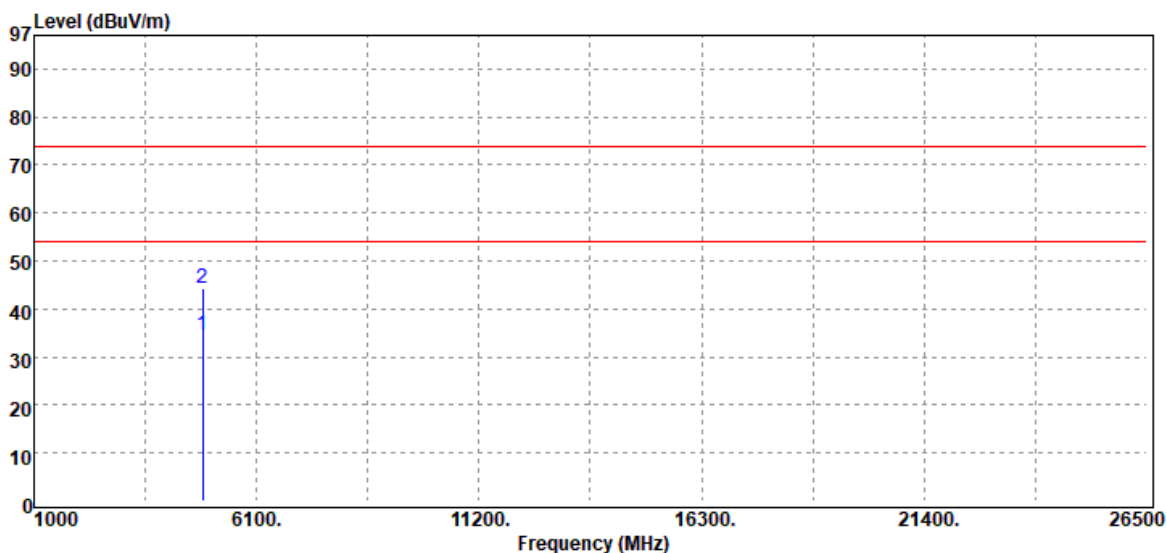
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	27.64	7.09	34.73	54.00	-19.27
4874.00	Peak	37.26	7.09	44.35	74.00	-29.65

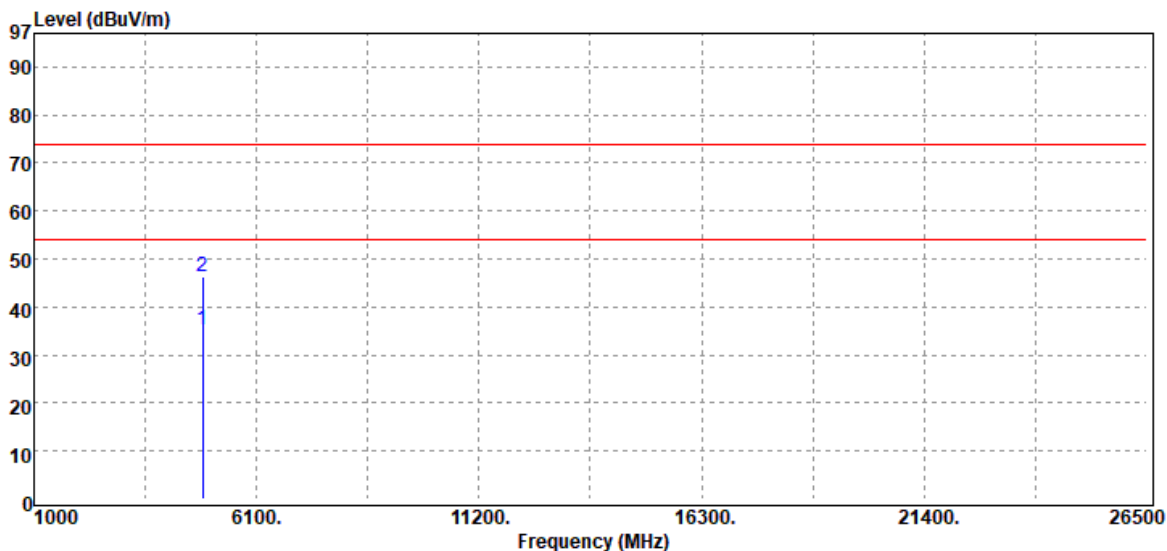
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4874.00	Average	28.03	7.09	35.12	54.00	-18.88
4874.00	Peak	39.19	7.09	46.28	74.00	-27.72

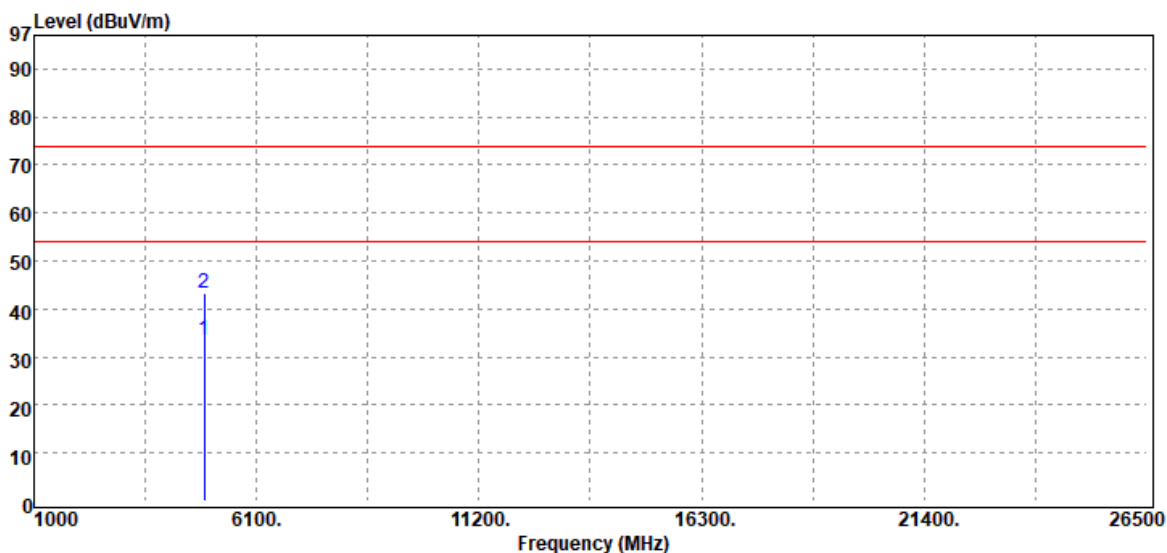
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :VERTICAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	Average	26.64	6.93	33.57	54.00	-20.43
4904.00	Peak	36.47	6.93	43.40	74.00	-30.60

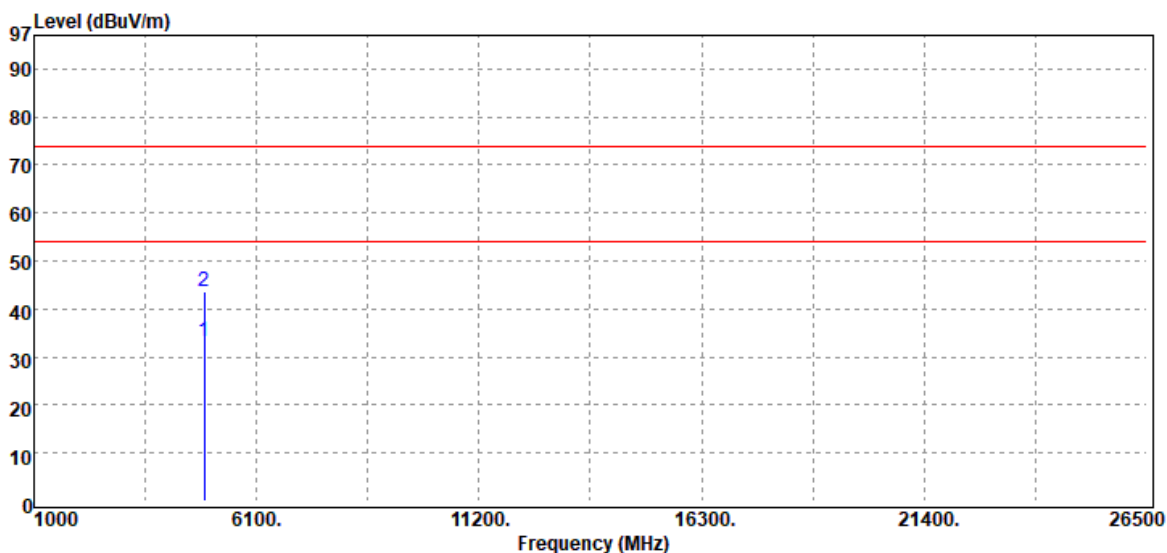
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40 RU full
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-04
 Temp./Humi. :21.3/62
 Antenna Pol. :HORIZONTAL
 Engineer :Nick



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	Average	26.31	6.93	33.24	54.00	-20.76
4904.00	Peak	36.76	6.93	43.69	74.00	-30.31

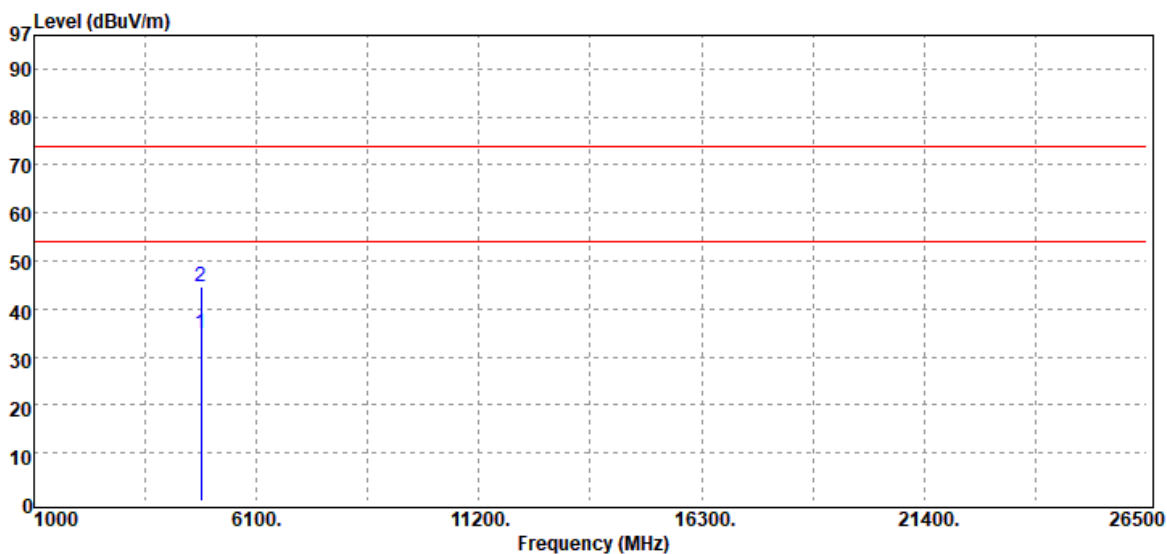
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Beamforming

Report Number	:ER-2021-20091	Test Site	:SAC III Chamber
Operation Mode	:802.11n20	Test Date	:2021-03-17
Test Frequency	:2412 MHz	Temp./Humi.	:22.8/65
Test Mode	:Tx CH Low	Antenna Pol.	:VERTICAL
EUT Pol	:H Plane	Engineer	:Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	27.59	7.38	34.97	54.00	-19.03
4824.00	Peak	37.23	7.38	44.61	74.00	-29.39

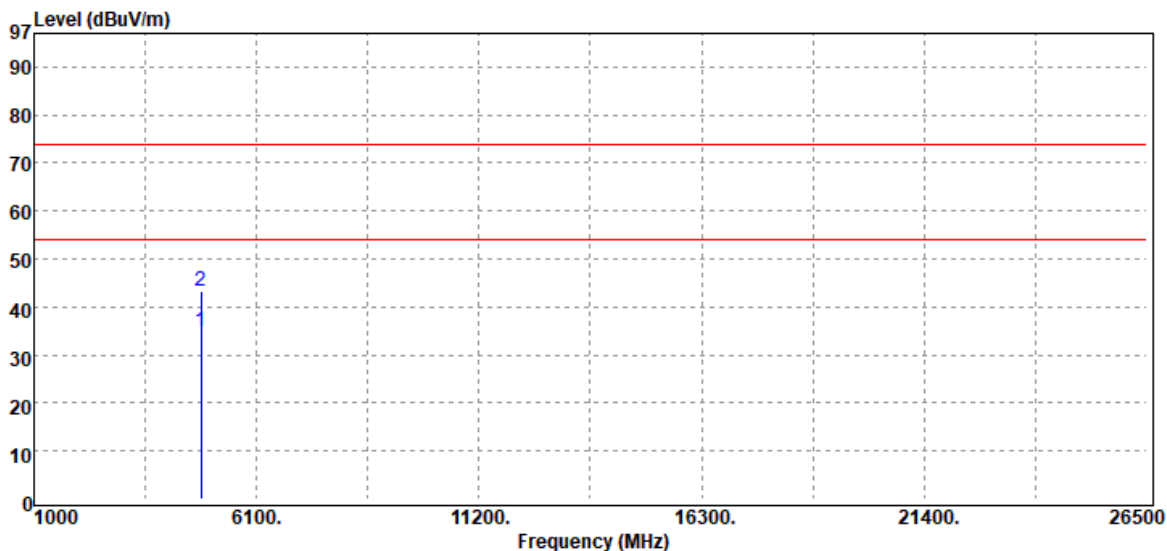
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	27.57	7.38	34.95	54.00	-19.05
4824.00	Peak	36.08	7.38	43.46	74.00	-30.54

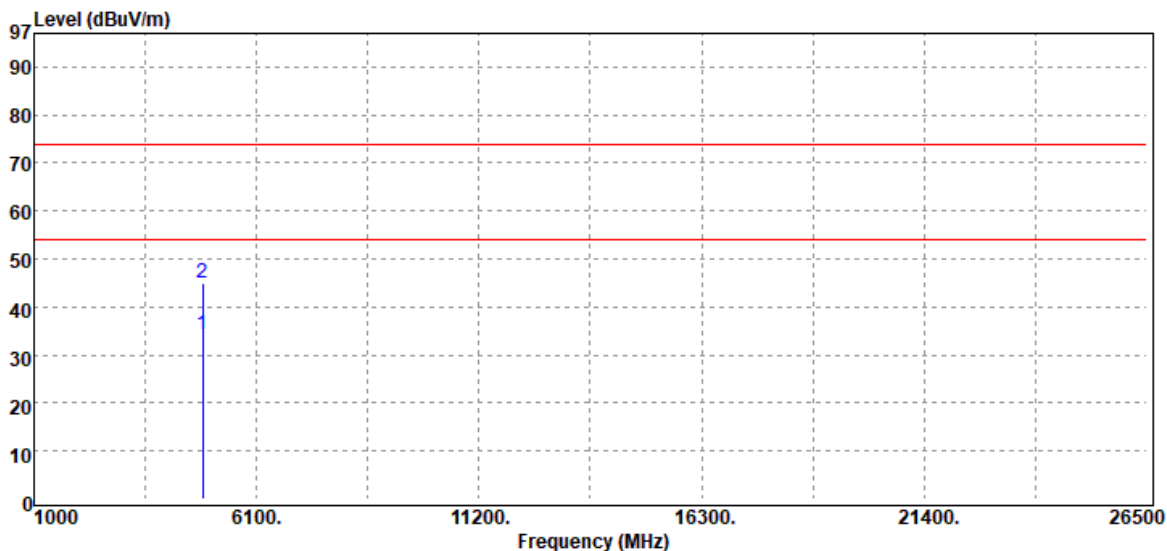
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	27.24	7.09	34.33	54.00	-19.67
4874.00	Peak	37.88	7.09	44.97	74.00	-29.03

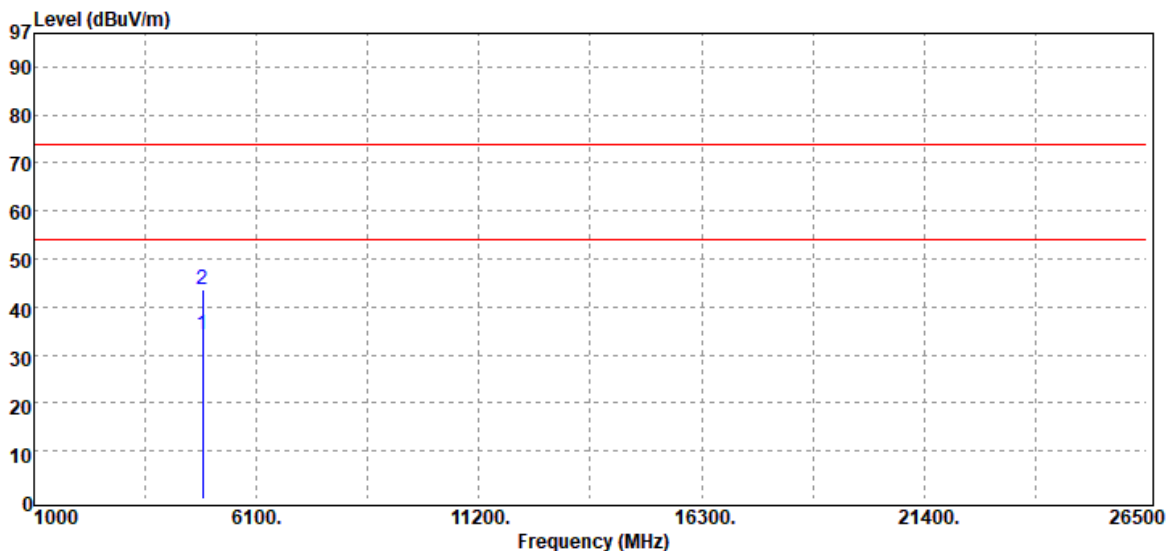
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	27.12	7.09	34.21	54.00	-19.79
4874.00	Peak	36.56	7.09	43.65	74.00	-30.35

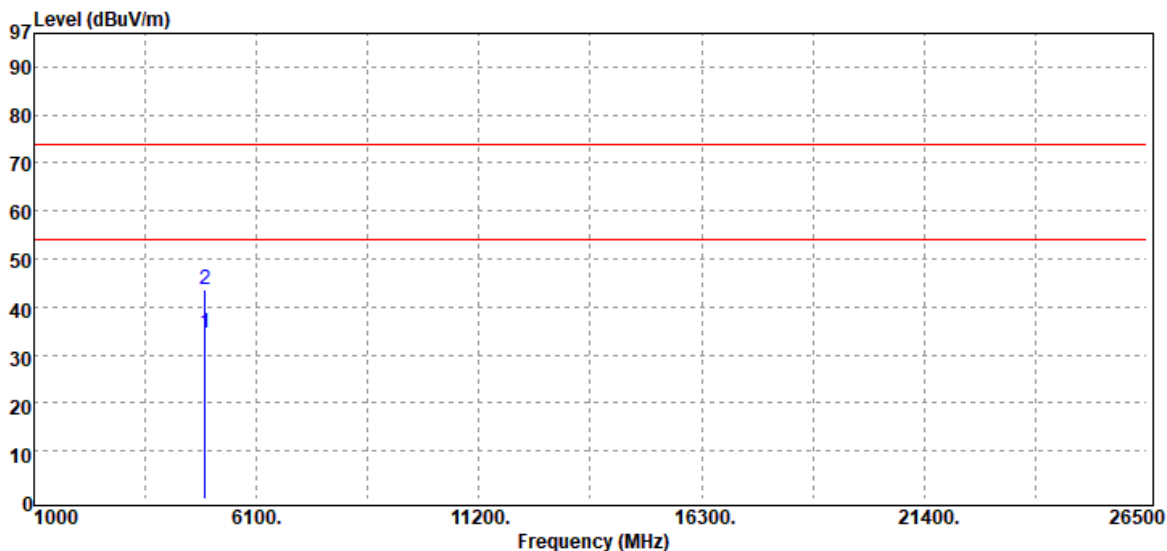
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	27.46	7.06	34.52	54.00	-19.48
4924.00	Peak	36.55	7.06	43.61	74.00	-30.39

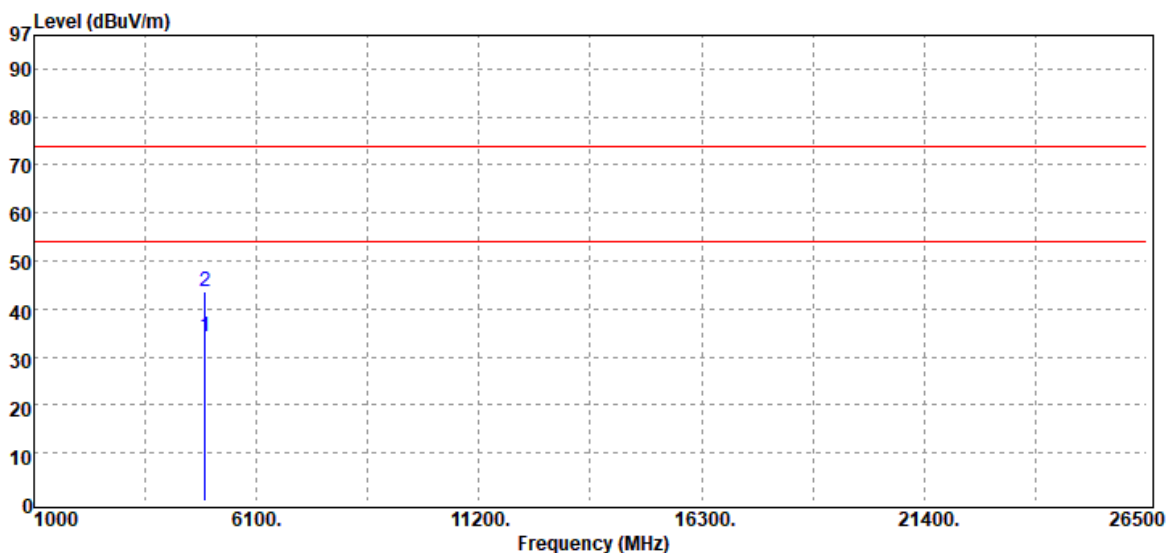
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Report Number :ER-2021-20091
 Operation Mode :802.11n20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	27.25	7.06	34.31	54.00	-19.69
4924.00	Peak	36.69	7.06	43.75	74.00	-30.25

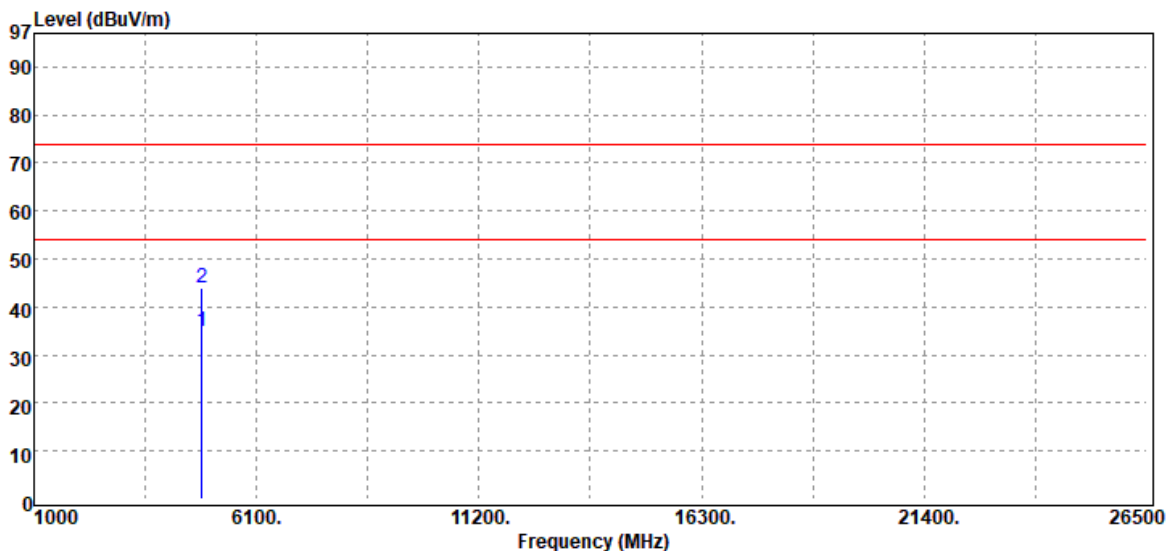
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4844.00	Average	27.60	7.29	34.89	54.00	-19.11
4844.00	Peak	36.82	7.29	44.11	74.00	-29.89

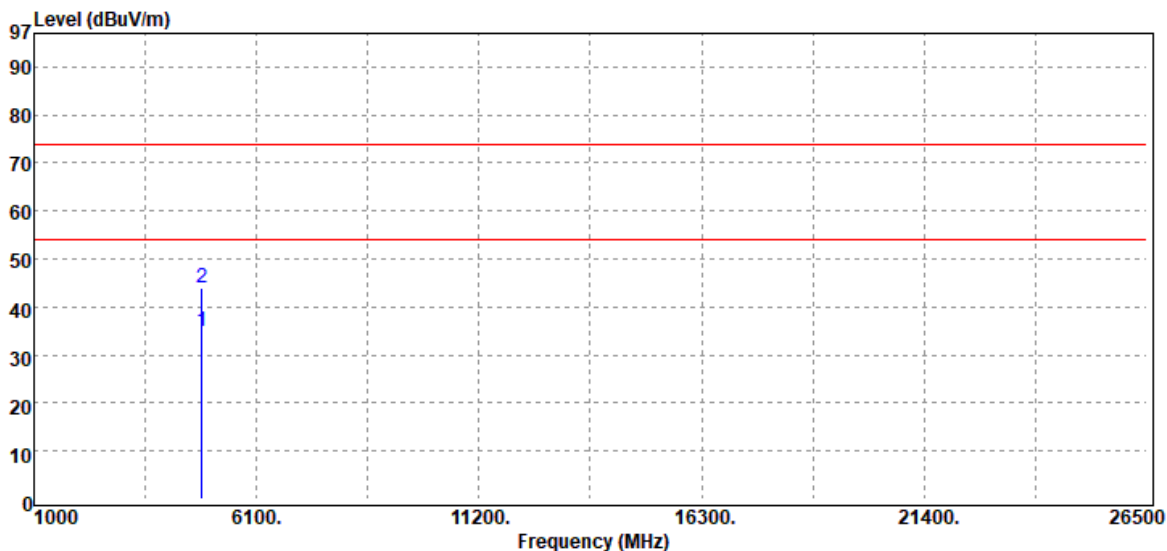
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	Average	27.45	7.29	34.74	54.00	-19.26
4844.00	Peak	36.64	7.29	43.93	74.00	-30.07

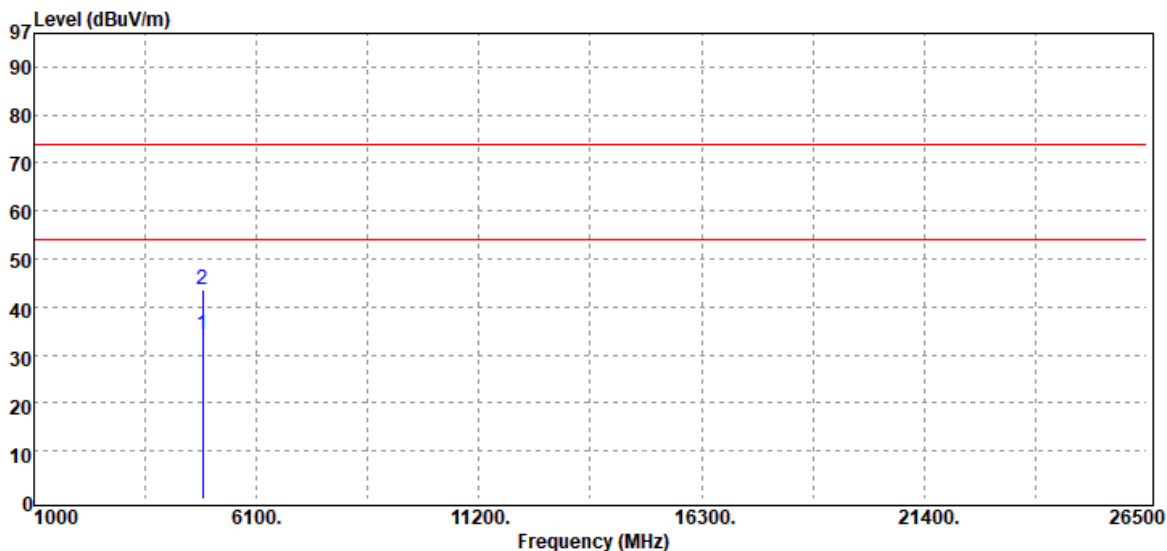
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	27.18	7.09	34.27	54.00	-19.73
4874.00	Peak	36.62	7.09	43.71	74.00	-30.29

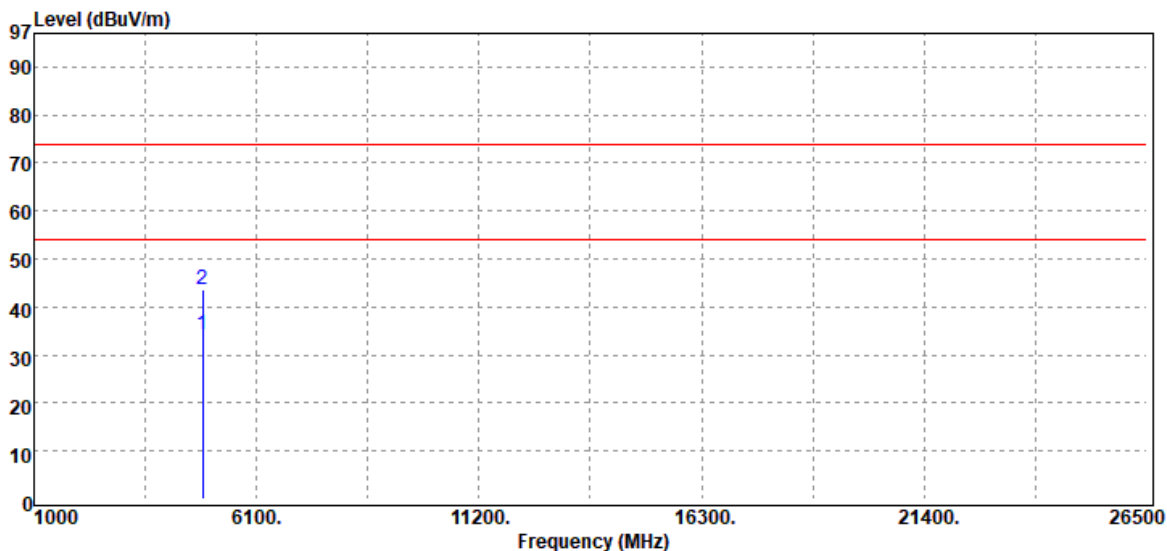
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	27.05	7.09	34.14	54.00	-19.86
4874.00	Peak	36.41	7.09	43.50	74.00	-30.50

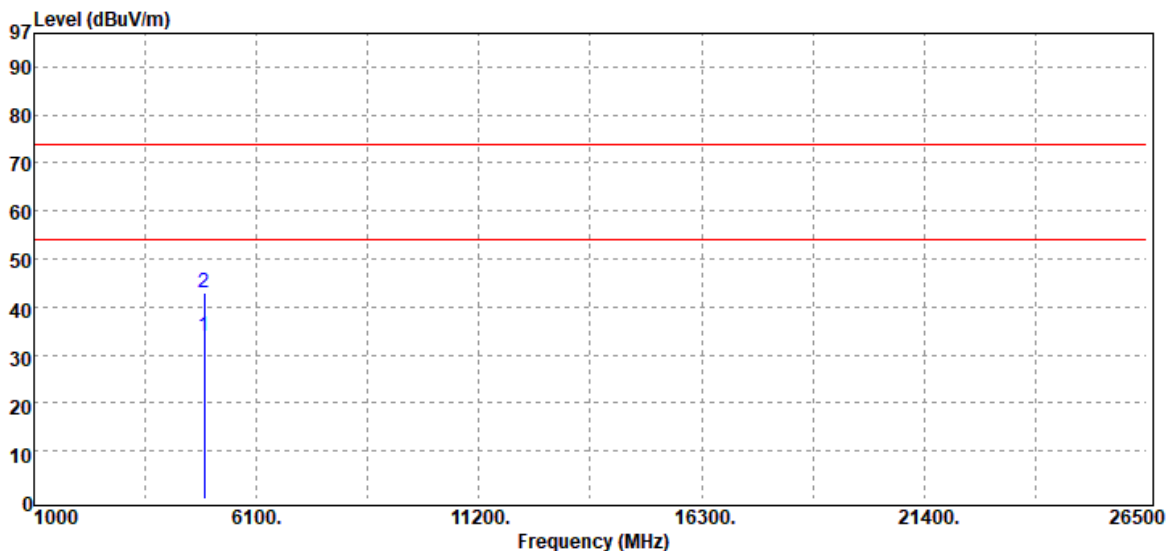
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.00	Average	27.06	6.93	33.99	54.00	-20.01
4904.00	Peak	36.18	6.93	43.11	74.00	-30.89

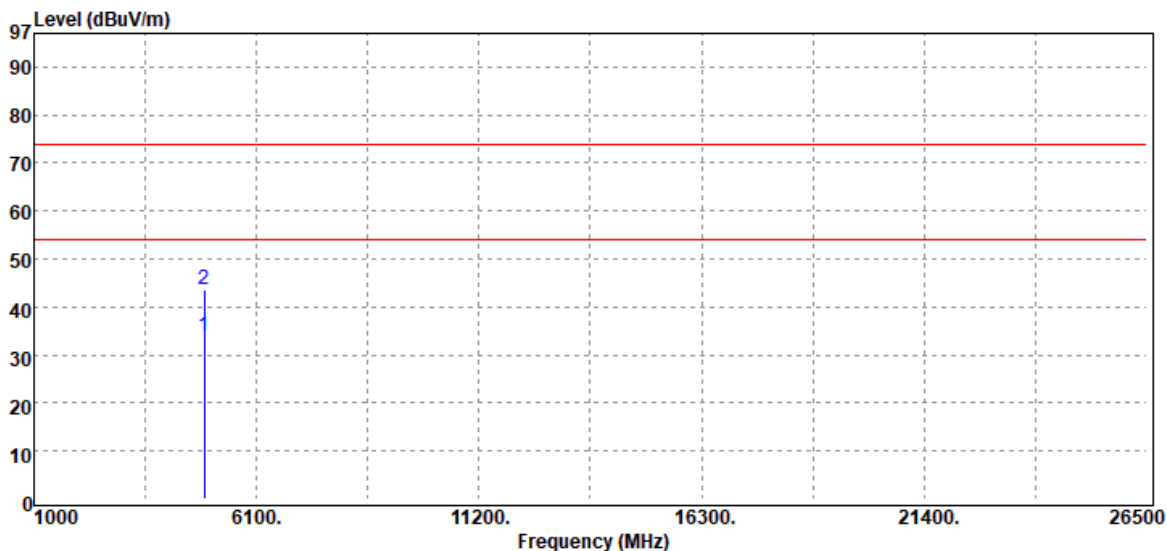
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Report Number :ER-2021-20091
 Operation Mode :802.11n40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBUV	Factor dB	Actual FS dBUV/m	Limit @3m dBUV/m	Margin dB
4904.00	Average	26.90	6.93	33.83	54.00	-20.17
4904.00	Peak	36.72	6.93	43.65	74.00	-30.35

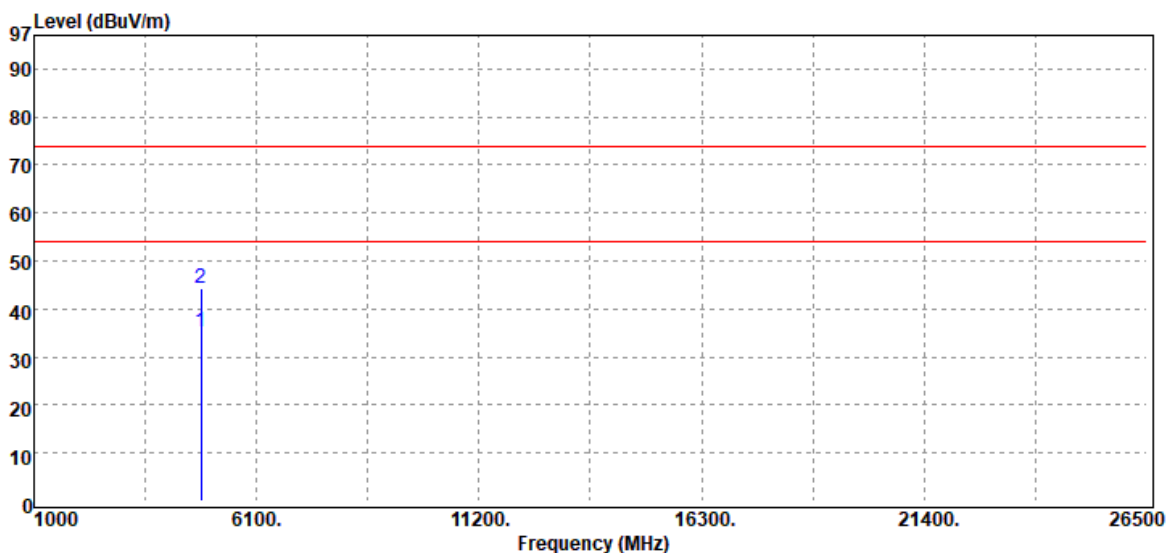
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4824.00	Average	27.98	7.38	35.36	54.00	-18.64
4824.00	Peak	36.87	7.38	44.25	74.00	-29.75

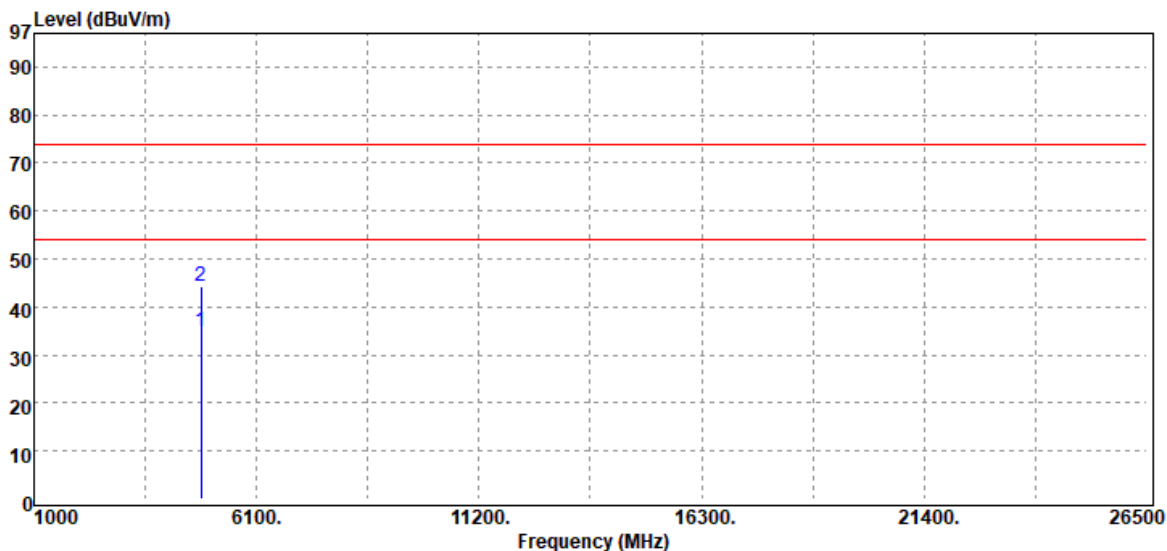
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4824.00	Average	27.66	7.38	35.04	54.00	-18.96
4824.00	Peak	36.89	7.38	44.27	74.00	-29.73

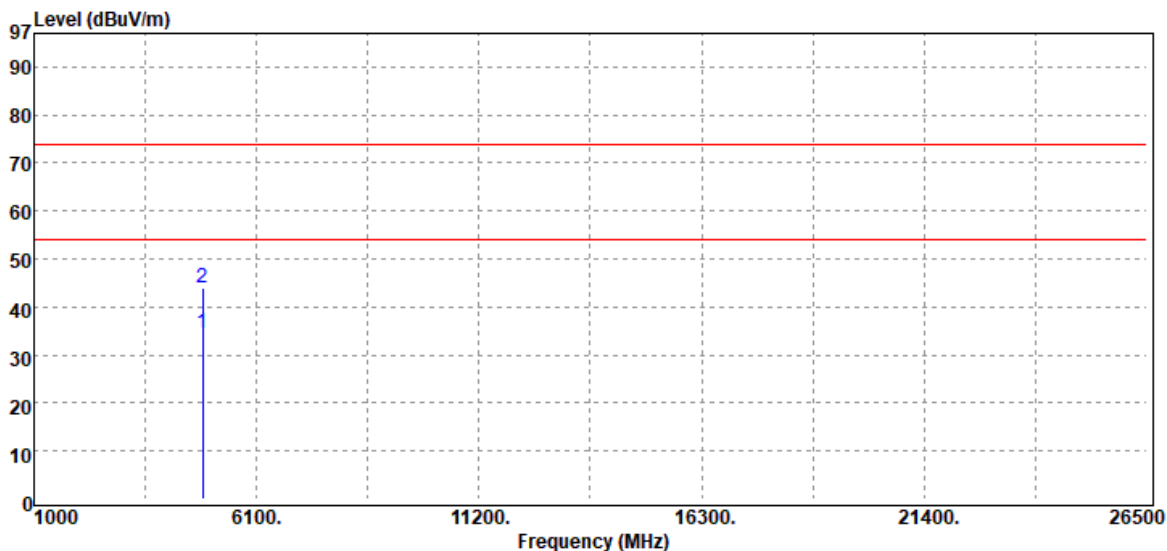
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	27.39	7.09	34.48	54.00	-19.52
4874.00	Peak	36.87	7.09	43.96	74.00	-30.04

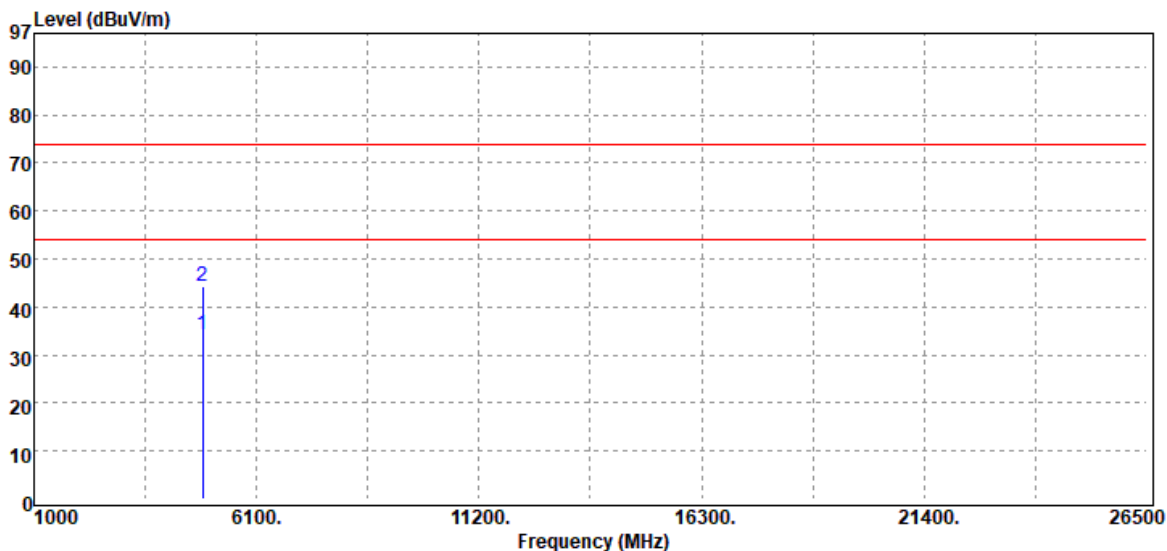
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4874.00	Average	27.27	7.09	34.36	54.00	-19.64
4874.00	Peak	37.11	7.09	44.20	74.00	-29.80

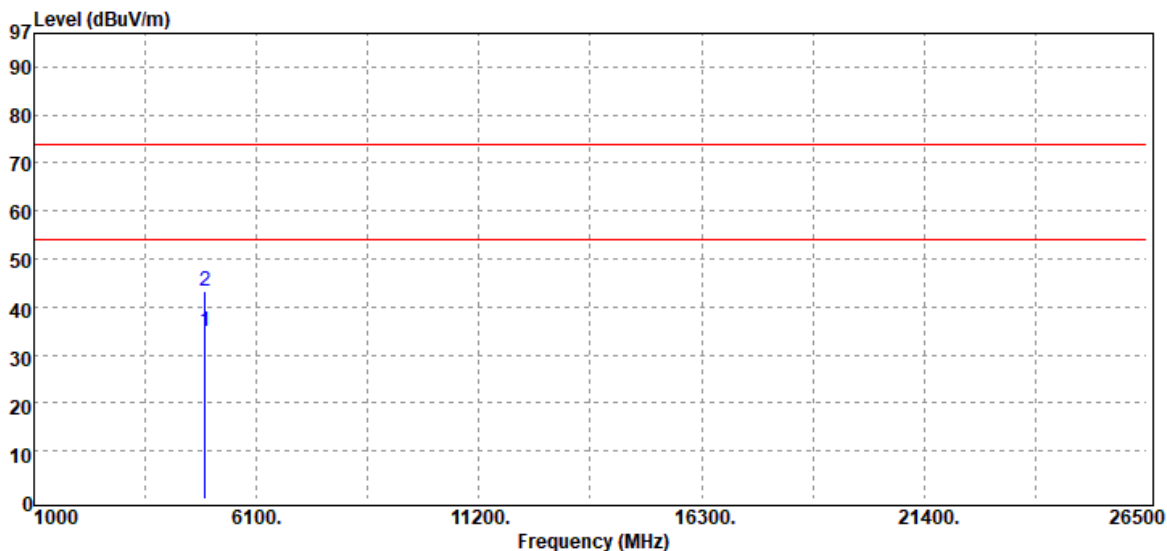
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4924.00	Average	27.71	7.06	34.77	54.00	-19.23
4924.00	Peak	36.27	7.06	43.33	74.00	-30.67

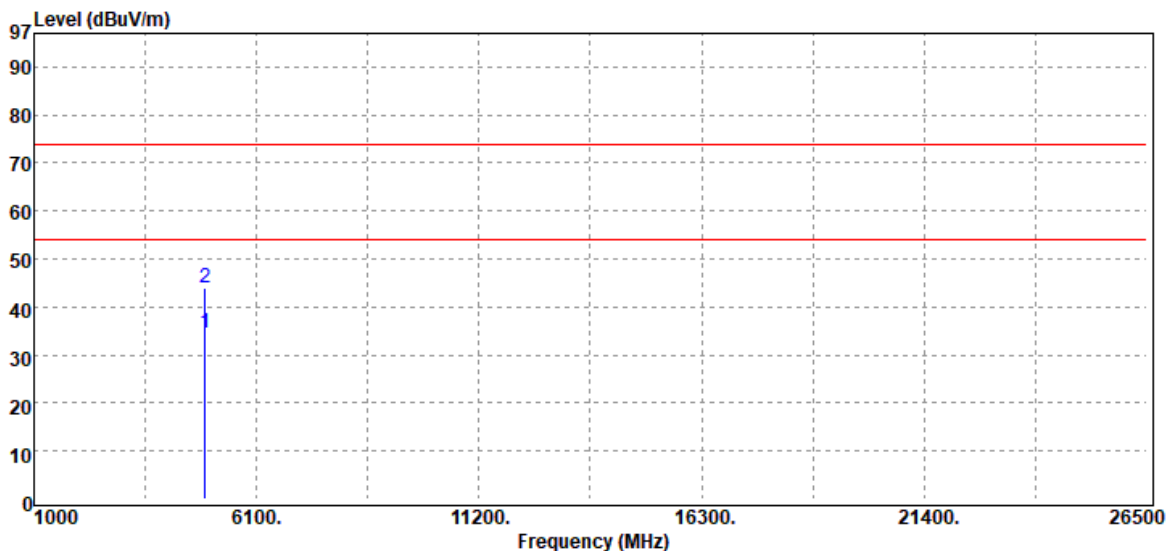
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Report Number :ER-2021-20091
 Operation Mode :802.11ax20
 Test Frequency :2462 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4924.00	Average	27.41	7.06	34.47	54.00	-19.53
4924.00	Peak	36.85	7.06	43.91	74.00	-30.09

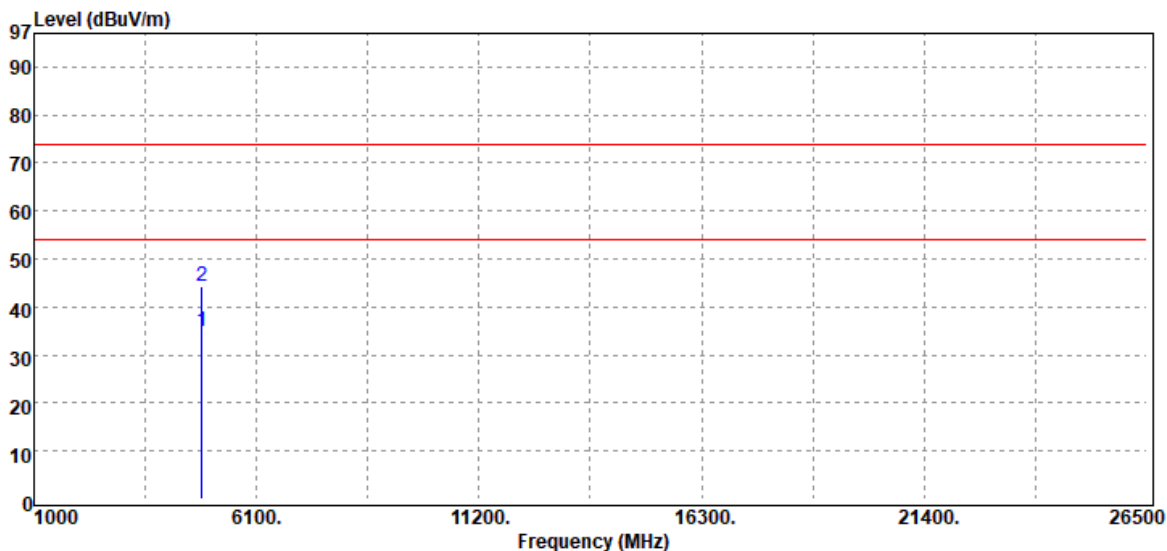
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4844.00	Average	27.68	7.29	34.97	54.00	-19.03
4844.00	Peak	36.86	7.29	44.15	74.00	-29.85

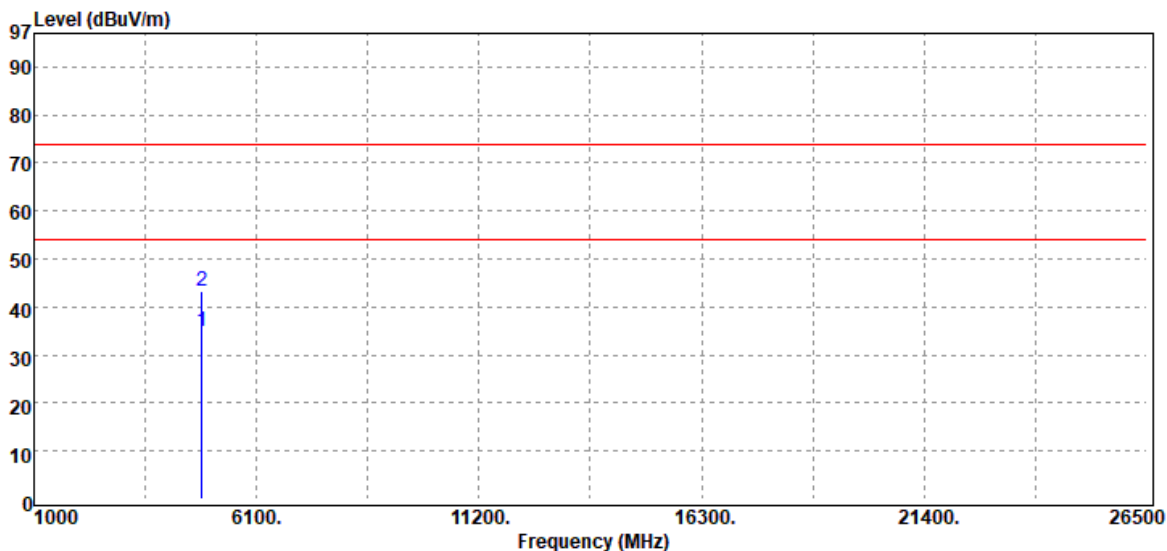
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2422 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dB μ V	Factor dB	Actual FS dB μ V/m	Limit @3m dB μ V/m	Margin dB
4844.00	Average	27.51	7.29	34.80	54.00	-19.20
4844.00	Peak	36.15	7.29	43.44	74.00	-30.56

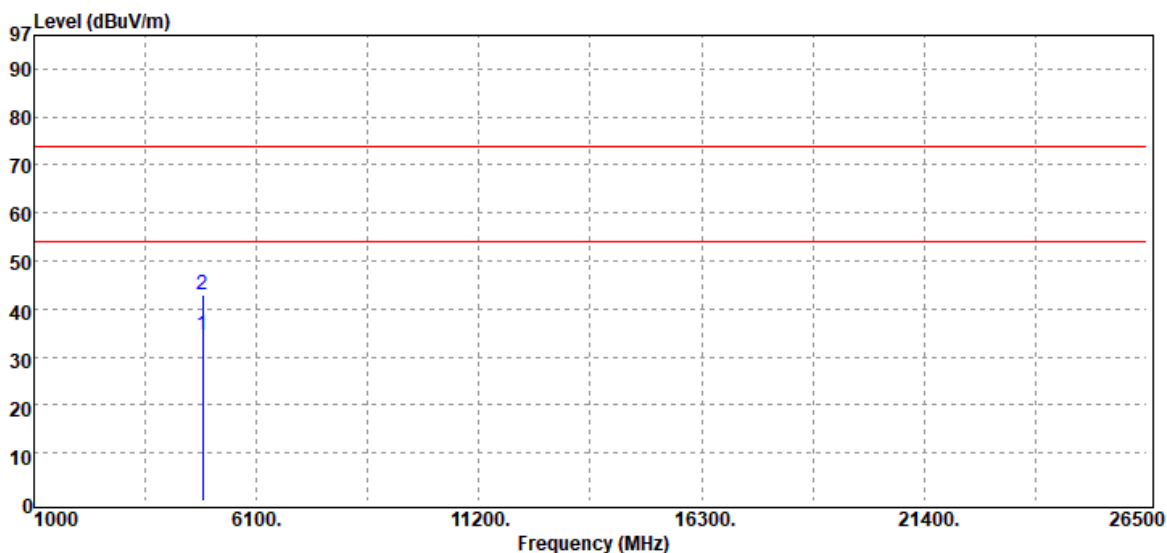
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	27.32	7.09	34.41	54.00	-19.59
4874.00	Peak	35.90	7.09	42.99	74.00	-31.01

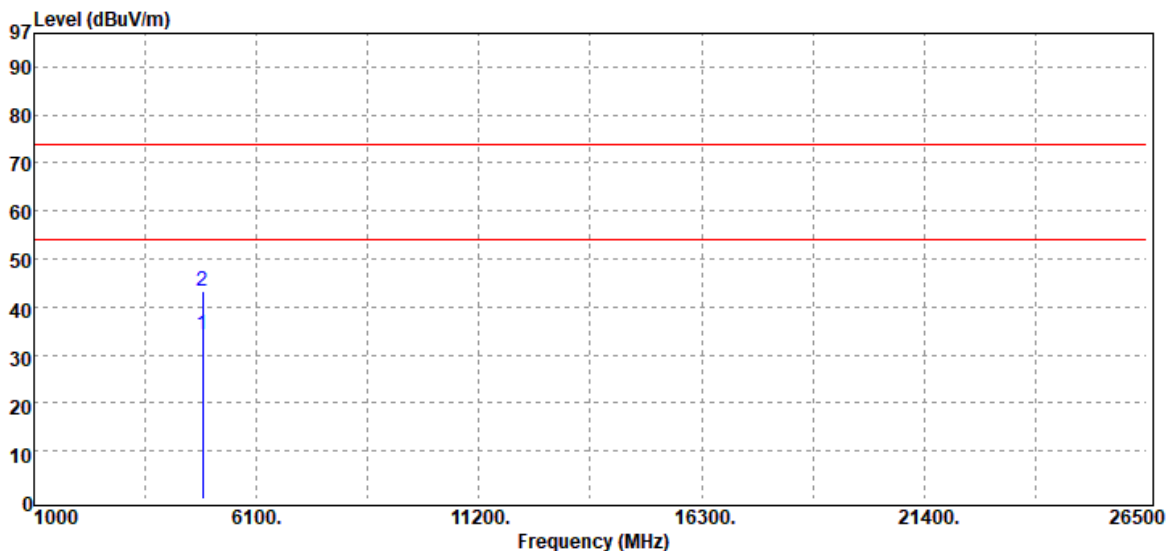
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2437 MHz
 Test Mode :Tx CH Mid
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4874.00	Average	27.01	7.09	34.10	54.00	-19.90
4874.00	Peak	36.25	7.09	43.34	74.00	-30.66

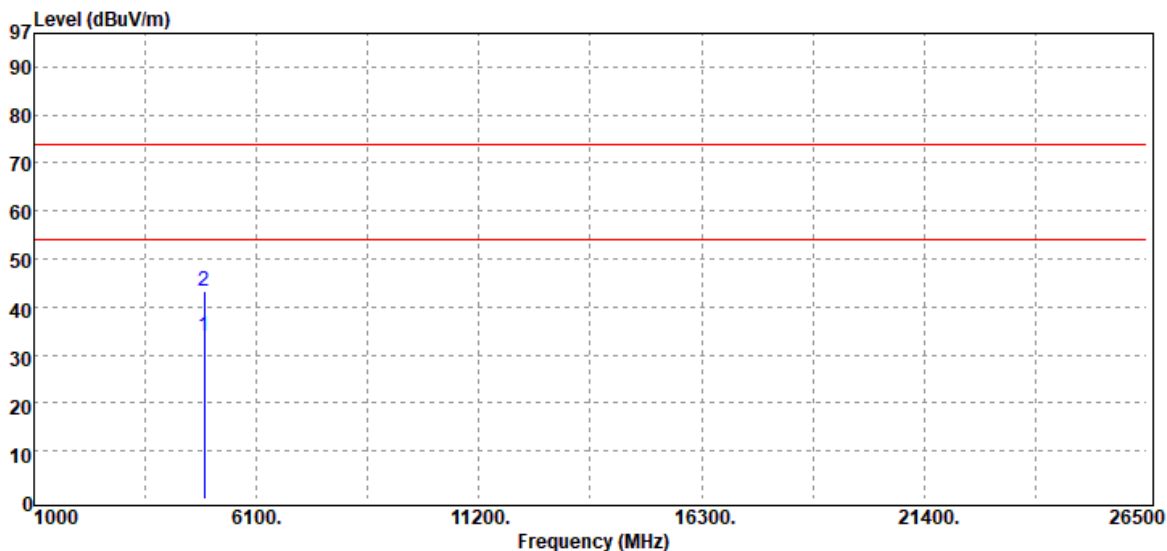
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :VERTICAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.00	Average	27.02	6.93	33.95	54.00	-20.05
4904.00	Peak	36.31	6.93	43.24	74.00	-30.76

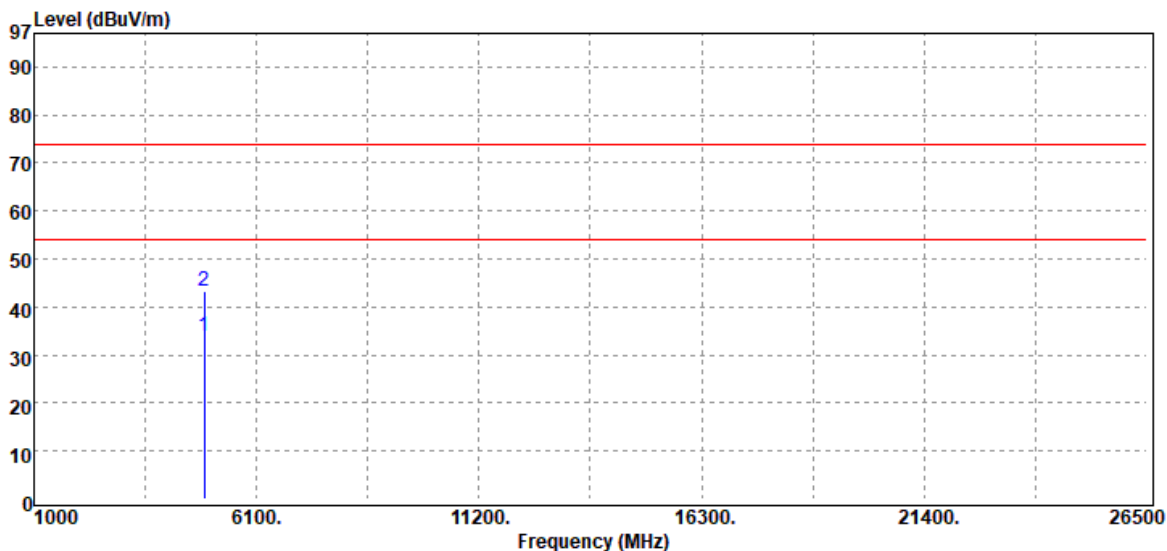
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Report Number :ER-2021-20091
 Operation Mode :802.11ax40
 Test Frequency :2452 MHz
 Test Mode :Tx CH High
 EUT Pol :H Plane

Test Site :SAC III Chamber
 Test Date :2021-03-17
 Temp./Humi. :22.8/65
 Antenna Pol. :HORIZONTAL
 Engineer :Ricky



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBμV	Factor dB	Actual FS dBμV/m	Limit @3m dBμV/m	Margin dB
4904.00	Average	26.87	6.93	33.80	54.00	-20.20
4904.00	Peak	36.48	6.93	43.41	74.00	-30.59

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

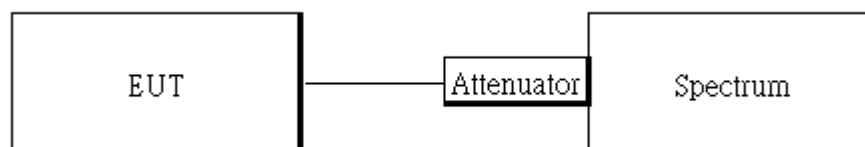
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

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	KEYSIGHT	N9010B	MY60240503	12/11/2020	12/10/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021

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. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. 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.

Note:

For the test of 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.

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12.5 As per FCC KDB 662911 D01

As per section F. 2). e). (ii) of FCC KDB 662911 D01

If antenna gains are not equal and each transmit antenna is driven by only one spatial stream, directional gain may be calculated by either of the following formulas.

$$\bullet \quad DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

where

Each antenna is driven by no more than one spatial stream;

NSS = the number of independent spatial streams of data;

NANT = the total number of antennas

$g_{j,k} = \sqrt{20 \log G_k}$ if the kth antenna is being fed by spatial stream j, or zero if it is not;

G_k is the gain in dBi of the kth antenna.

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

CDD

POWER DENSITY 802.11b					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	0.67	1.63	4.19	8.00	PASS
2437	1.46	0.82	4.16	8.00	PASS
2462	0.89	1.47	4.20	8.00	PASS

POWER DENSITY 802.11g					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-9.32	-7.53	-5.32	8.00	PASS
2437	-9.41	-8.18	-5.74	8.00	PASS
2462	-8.23	-8.3	-5.25	8.00	PASS

POWER DENSITY 802.11n HT20					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-6.42	-6.4	-3.40	8.00	PASS
2437	-7.37	-6.54	-3.92	8.00	PASS
2462	-6.68	-6.58	-3.62	8.00	PASS

POWER DENSITY 802.11ax HE20						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	full	-8.61	-7.51	-5.01	8.00	PASS
	26/0	-5.54	-4.73	-2.11	8.00	PASS
	52/37	-5.37	-5.3	-2.32	8.00	PASS
	106/53	-9.57	-7.2	-5.21	8.00	PASS
2437	full	-8.62	-7.55	-5.04	8.00	PASS
2462	full	-8.11	-7.41	-4.74	8.00	PASS
	26/8	-5.85	-5.42	-2.62	8.00	PASS
	52/40	-6.21	-5.49	-2.82	8.00	PASS
	106/54	-9.23	-7.96	-5.54	8.00	PASS

POWER DENSITY 802.11n HT40					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-8.58	-10.2	-6.30	8.00	PASS
2437	-8.36	-9.05	-5.68	8.00	PASS
2452	-13.33	-13.78	-10.54	8.00	PASS

POWER DENSITY 802.11ax HE40						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	full	-9.92	-9.8	-6.85	8.00	PASS
	242/61	-11.62	-11.7	-8.65	8.00	PASS
2437	full	-11.21	-10.23	-7.68	8.00	PASS
2452	full	-15.26	-13.82	-11.47	8.00	PASS
	242/62	-10.63	-10.24	-7.42	8.00	PASS

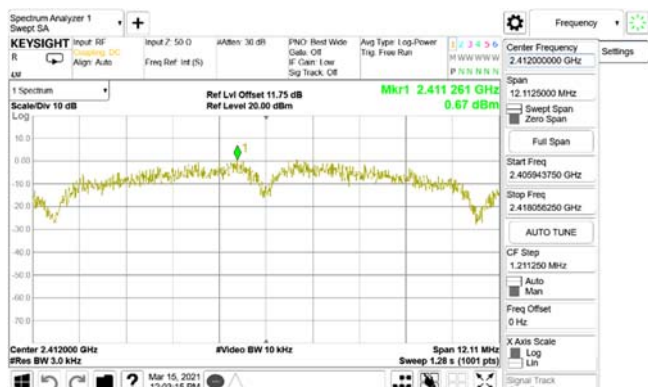
*Refer to next page for plots

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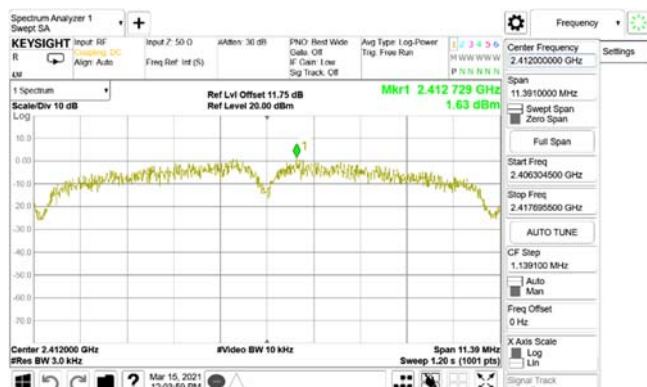
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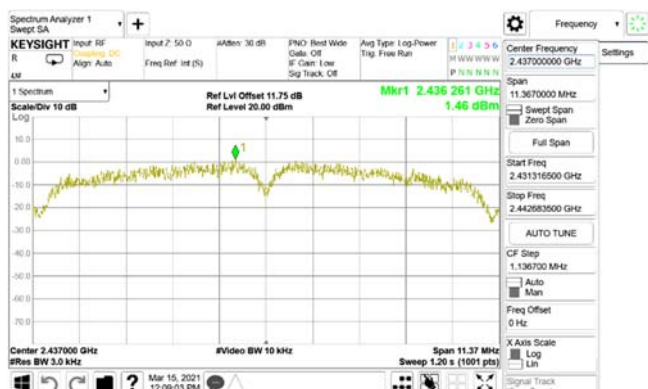
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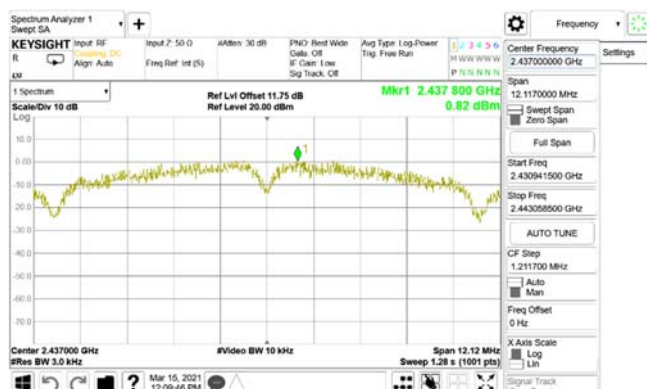
Power Density_802.11b_20MHz_Chain1_2412MHz



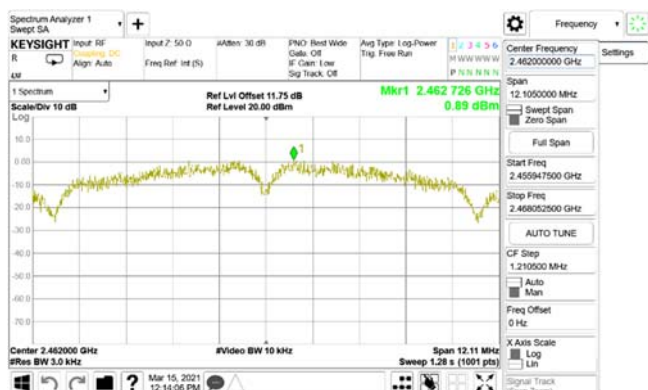
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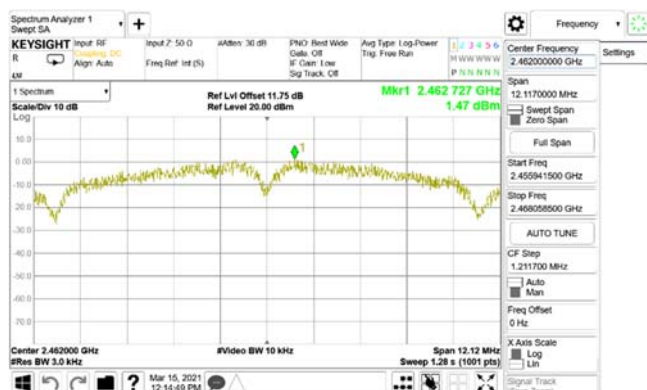
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Power Density_802.11b_20MHz_Chain0_2462MHz



Power Density_802.11b_20MHz_Chain1_2462MHz

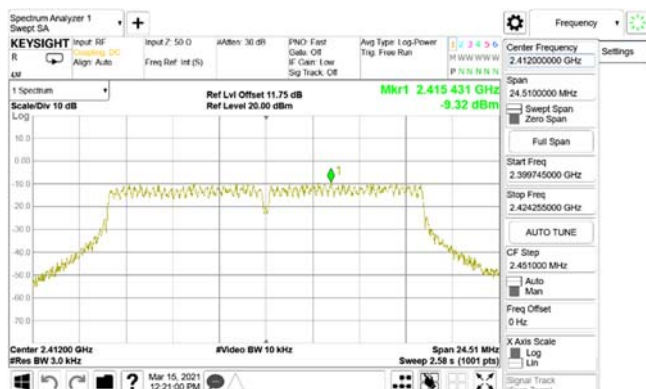


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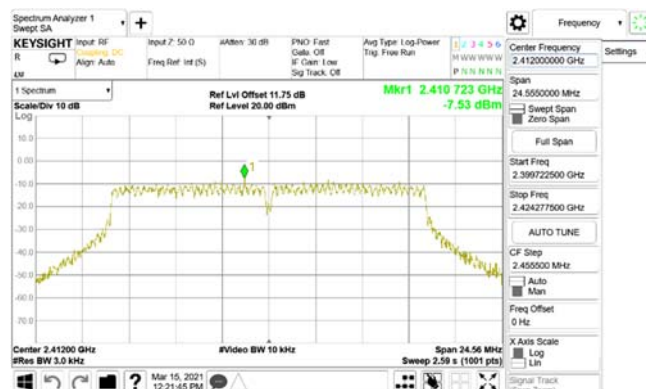
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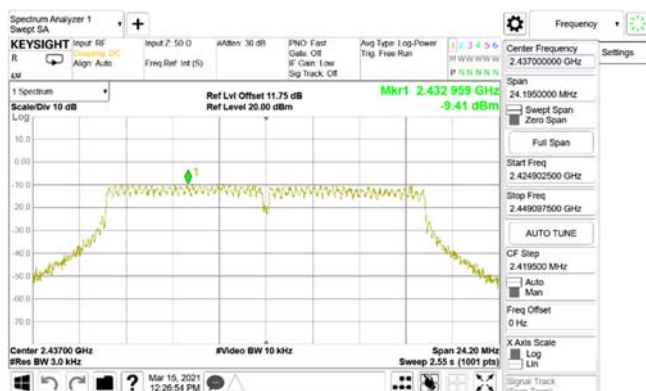
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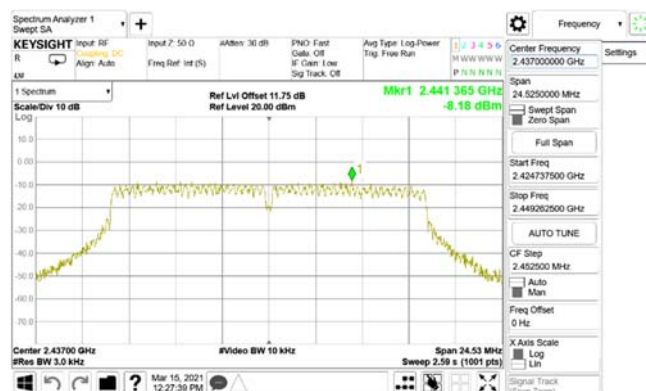
Power Density_802.11g_20MHz_Chain1_2412MHz



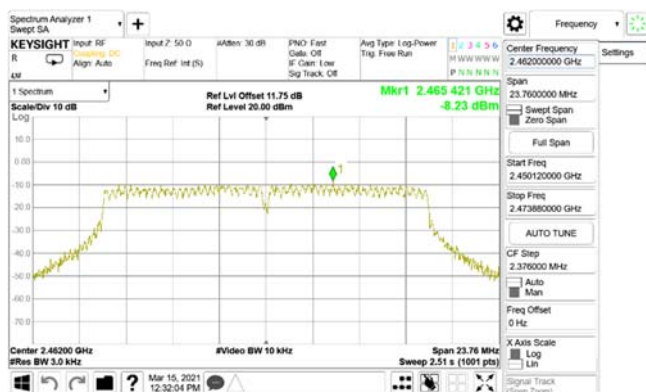
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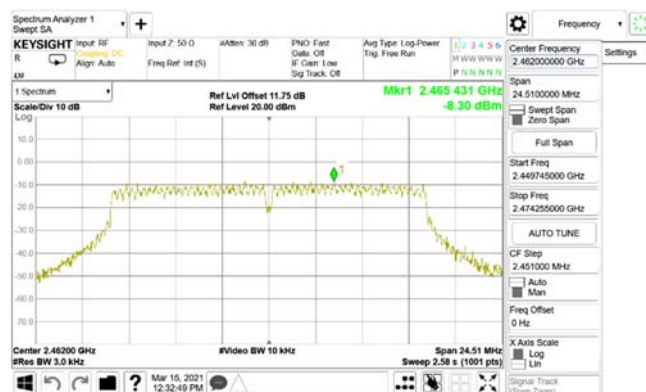
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Power Density_802.11g_20MHz_Chain0_2462MHz



Power Density_802.11g_20MHz_Chain1_2462MHz

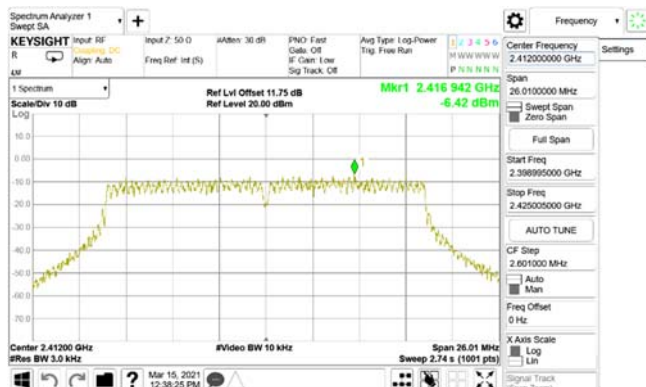


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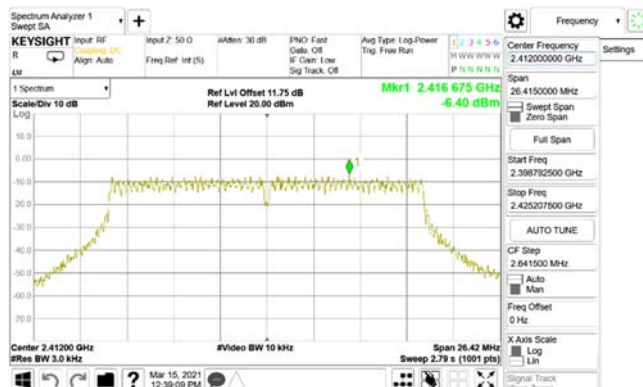
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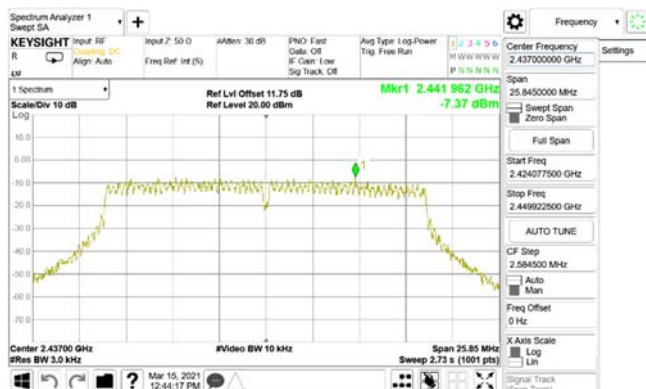
Power Density_802.11n_20MHz_Chain0_2412MHz



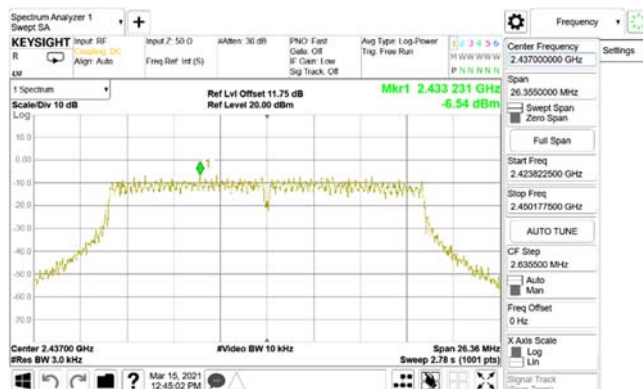
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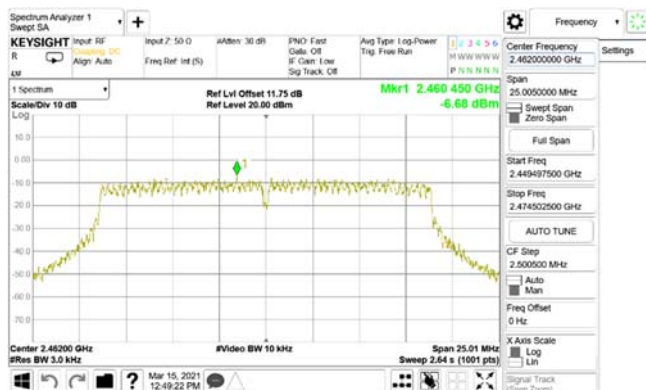
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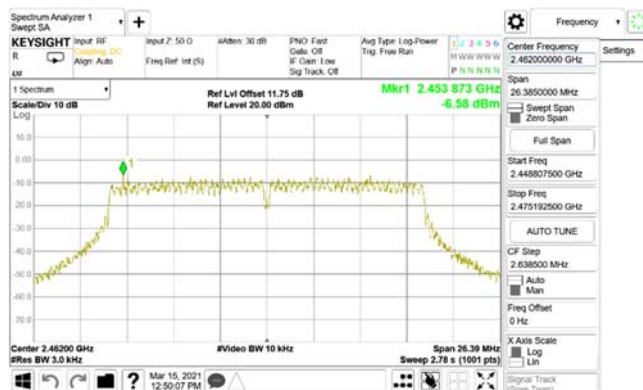
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Power Density_802.11n_20MHz_Chain0_2462MHz



Power Density_802.11n_20MHz_Chain1_2462MHz

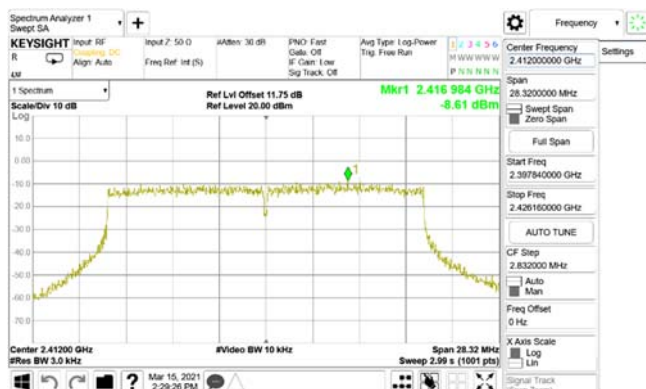


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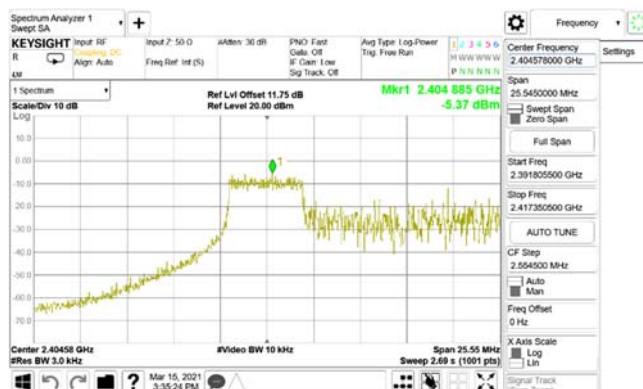
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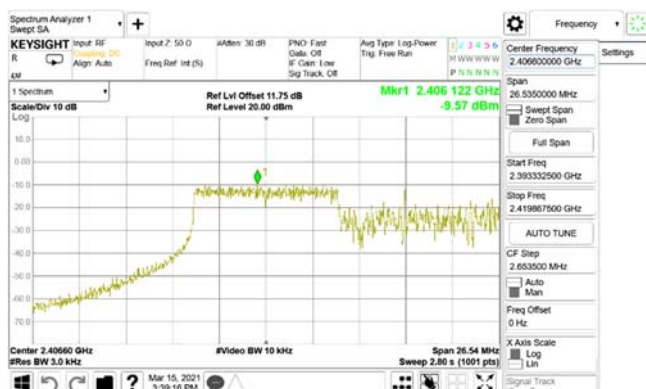
Power Density_802.11ax_20MHz_Chain0_2412MHz



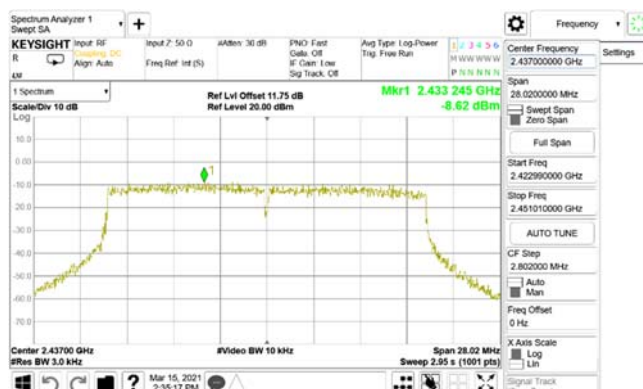
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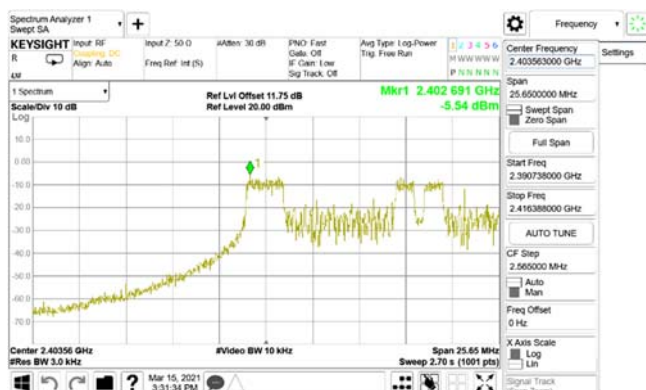
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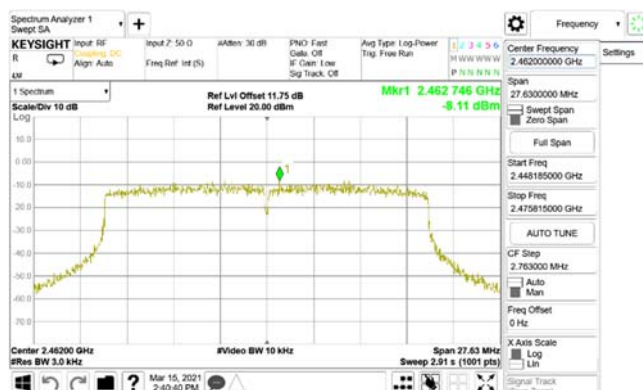
Power Density_802.11ax_20MHz_Chain0_2437MHz



Power Density_802.11ax_20MHz_Chain0_2412MHz_RU26_0



Power Density_802.11ax_20MHz_Chain0_2462MHz

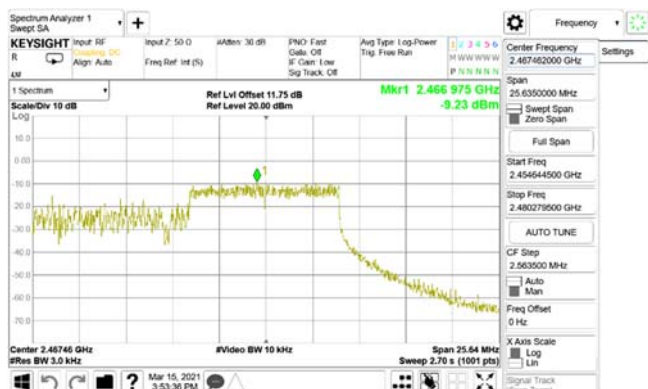


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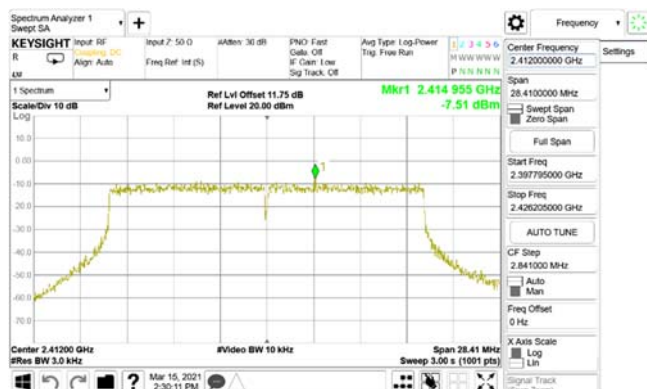
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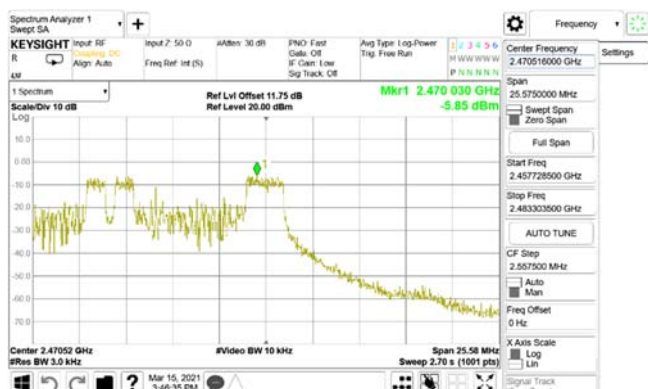
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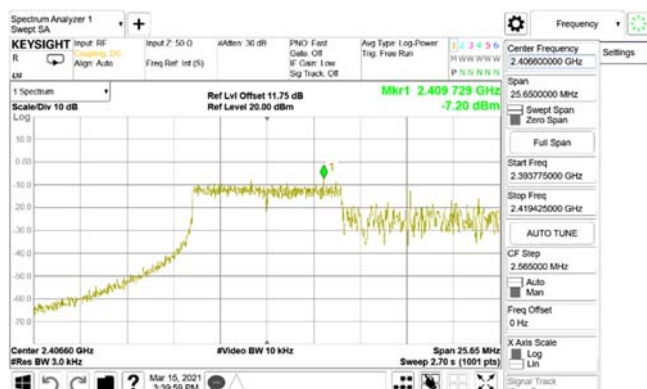
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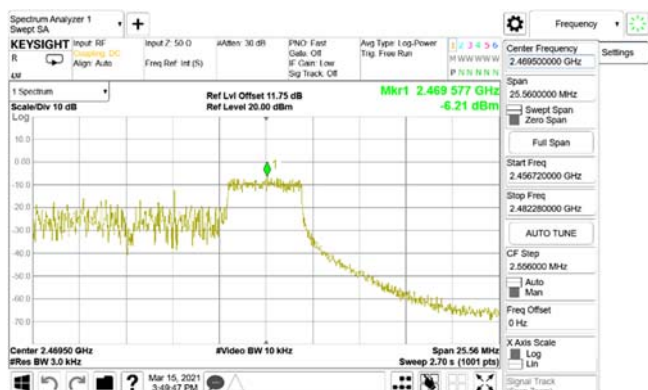
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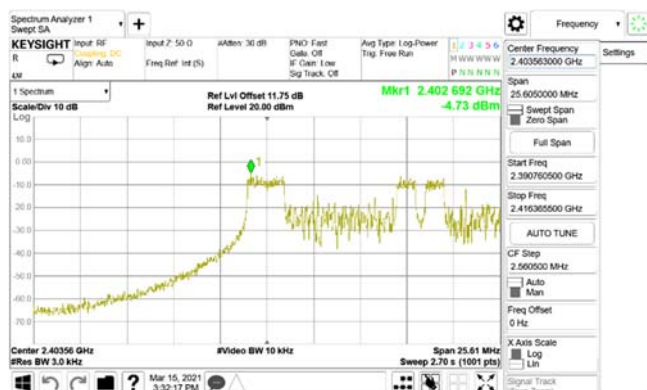
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Power Density_802.11ax_20MHz_Chain1_2412MHz_RU26_0

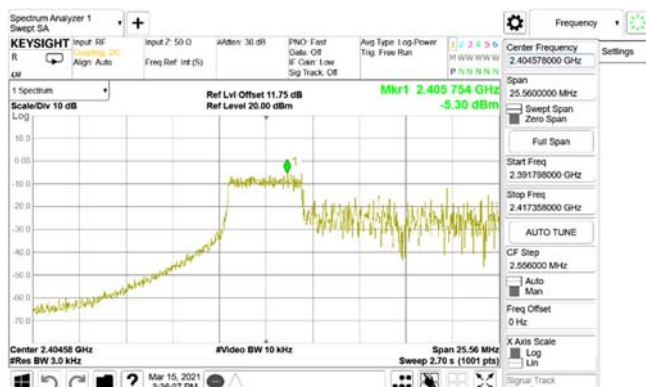


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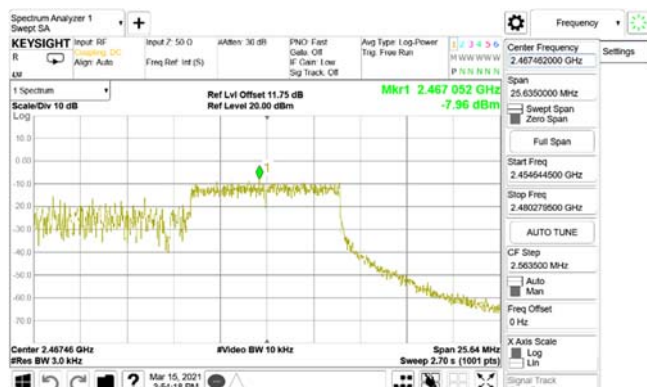
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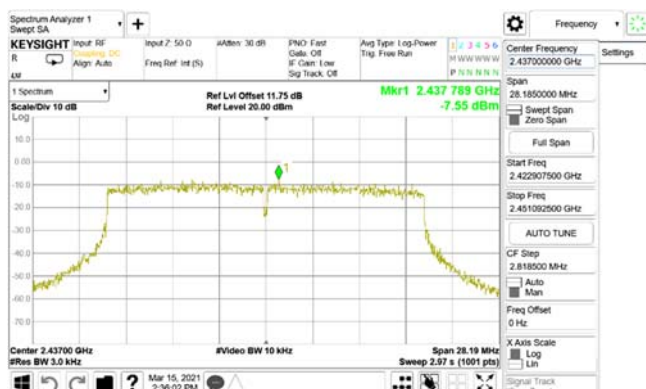
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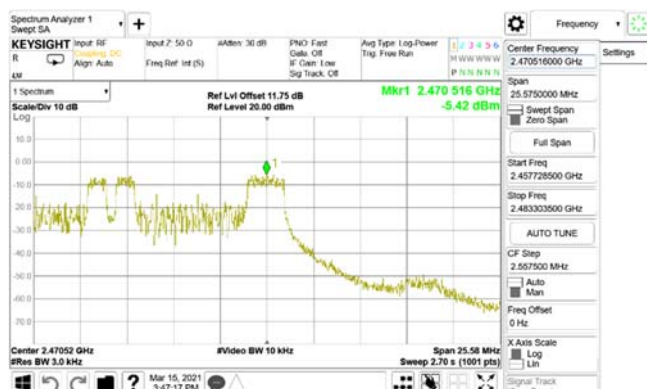
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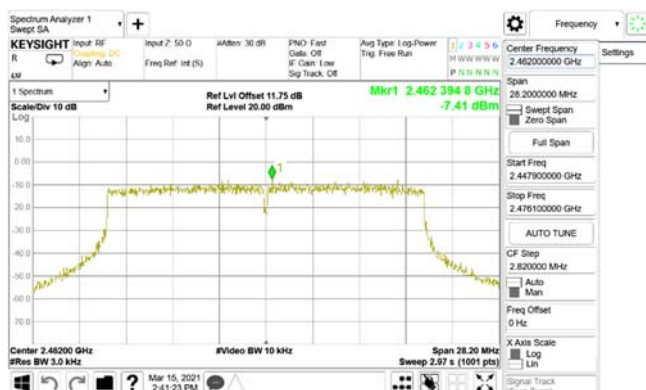
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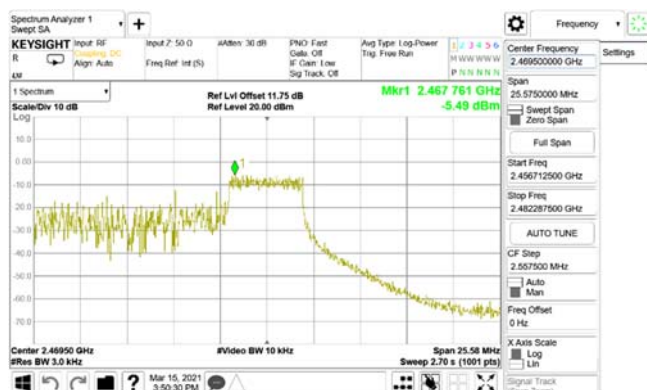
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Power Density_802.11ax_20MHz_Chain1_2462MHz



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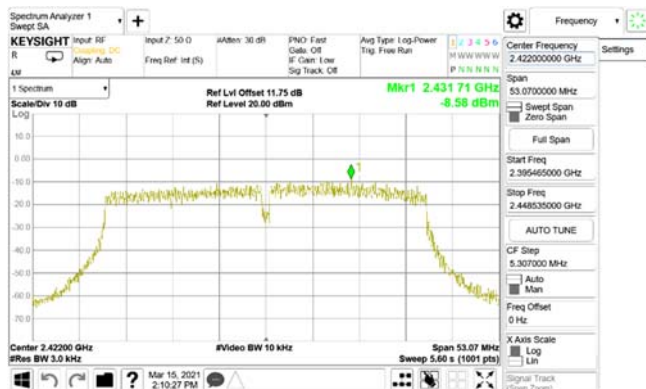


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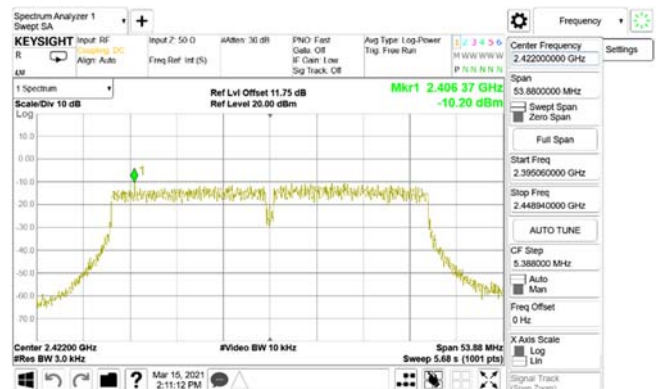
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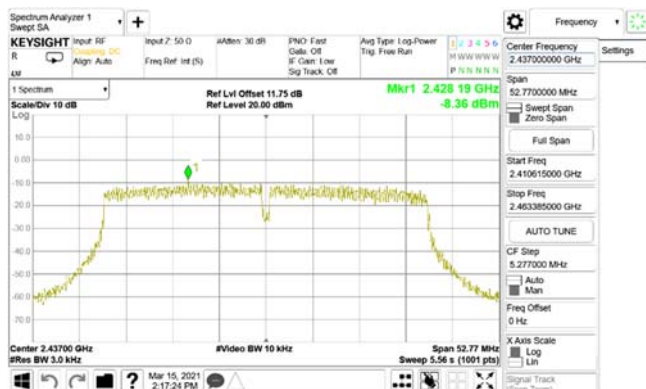
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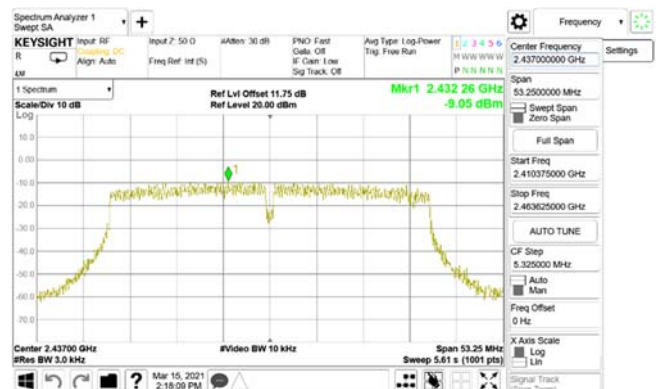
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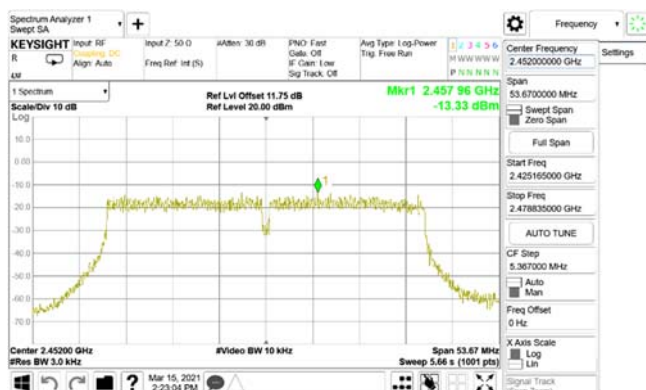
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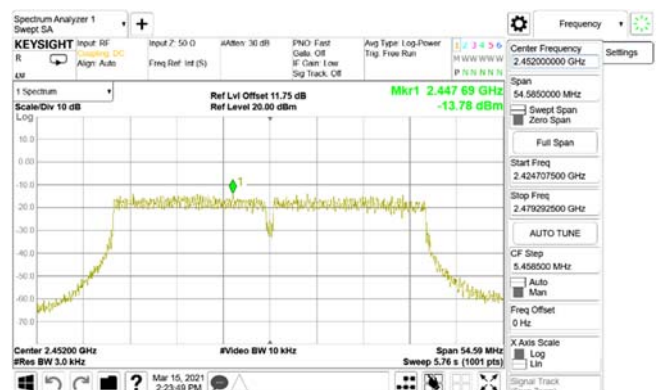
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Power Density_802.11n_40MHz_Chain1_2452MHz

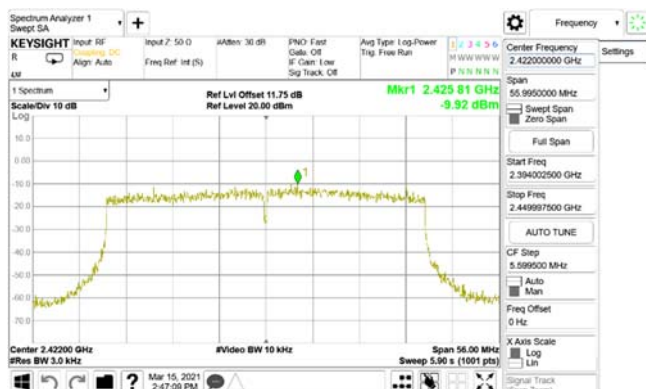


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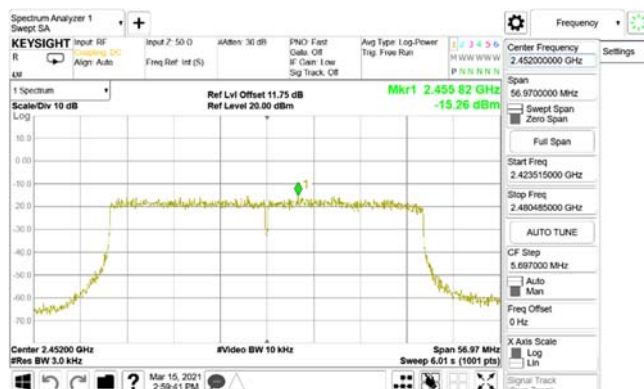
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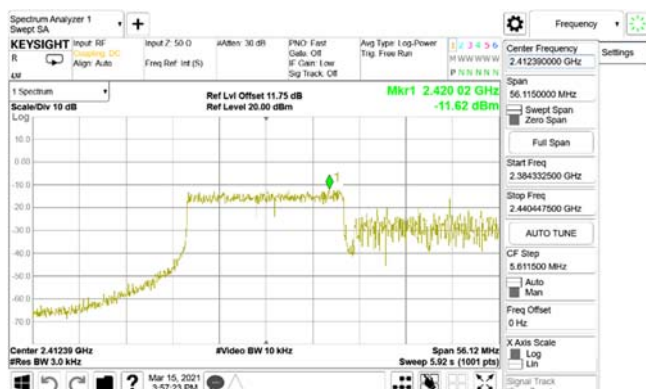
Power Density_802.11ax_40MHz_Chain0_2422MHz



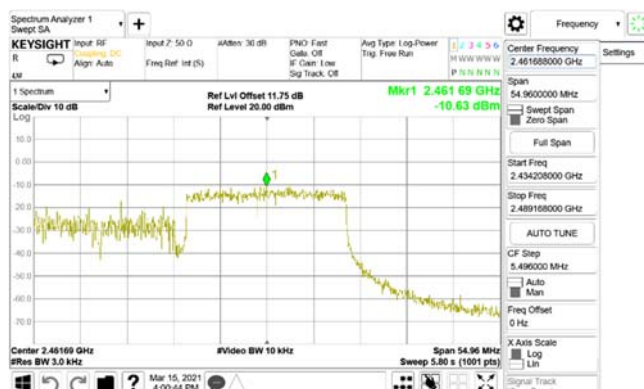
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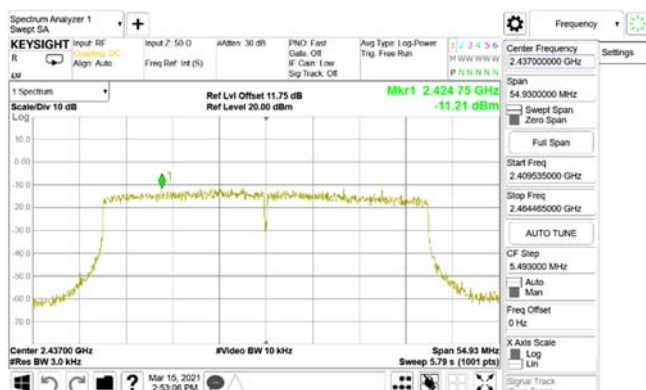
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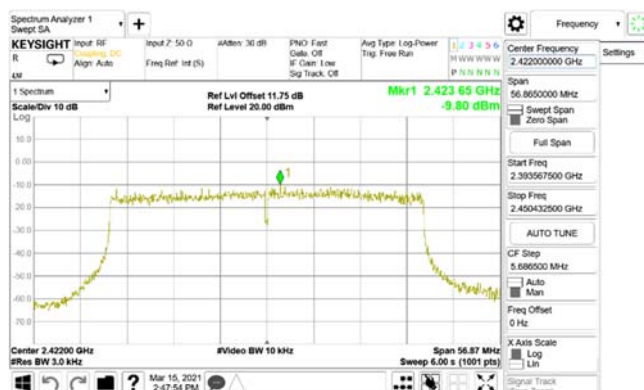
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Power Density_802.11ax_40MHz_Chain0_2437MHz



Power Density_802.11ax_40MHz_Chain1_2422MHz

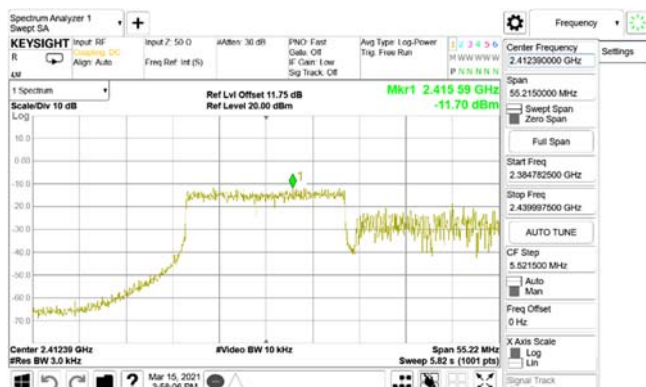


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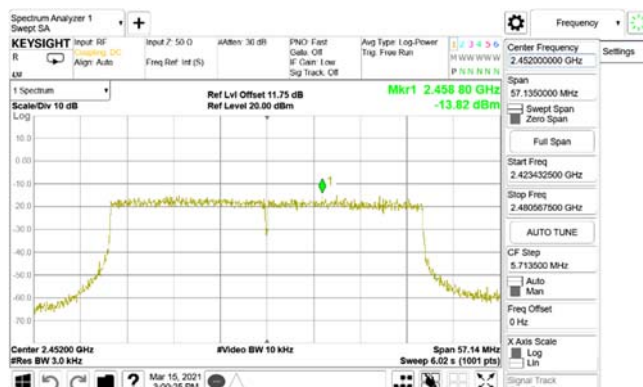
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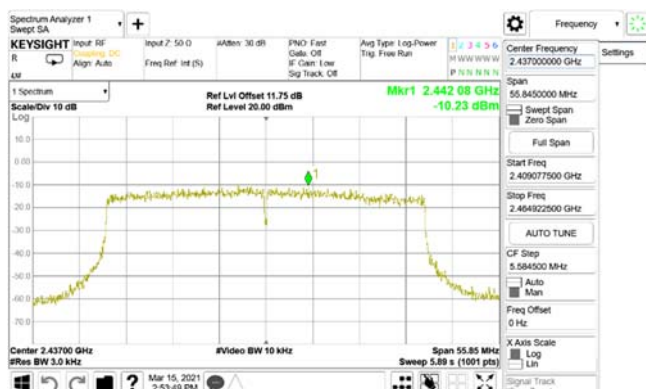
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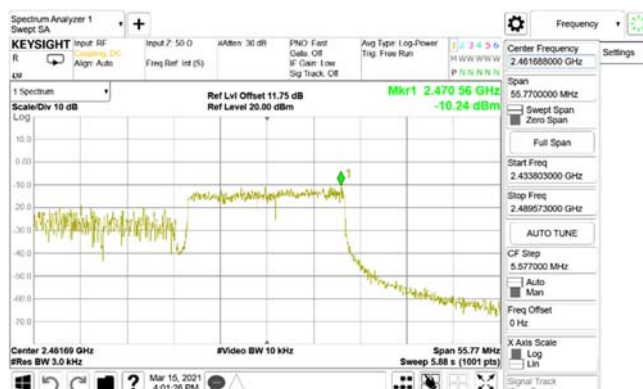
Power Density_802.11ax_40MHz_Chain1_2452MHz



Power Density_802.11ax_40MHz_Chain1_2437MHz



Power Density_802.11ax_40MHz_Chain1_2452MHz_RU242_62



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Beamforming

POWER DENSITY 802.11n HT20					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-9.5	-9.49	-6.48	8.00	PASS
2437	-10.52	-9.05	-6.71	8.00	PASS
2462	-9.18	-9.72	-6.43	8.00	PASS

POWER DENSITY 802.11n HT40					
Freq. (MHz)	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-12.39	-12.79	-9.58	8.00	PASS
2437	-11.18	-12.05	-8.58	8.00	PASS
2452	-15.54	-16.6	-13.03	8.00	PASS

POWER DENSITY 802.11ax HE20						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	full	-11.67	-11.42	-8.53	8.00	PASS
	26/0	-8.9	-6.94	-4.80	8.00	PASS
	52/37	-8.84	-7.06	-4.85	8.00	PASS
	106/53	-12.87	-11.78	-9.28	8.00	PASS
2437	full	-11.44	-10.59	-7.98	8.00	PASS
2462	full	-11.01	-10.54	-7.76	8.00	PASS
	26/8	-7.97	-8.78	-5.35	8.00	PASS
	52/40	-9.91	-8.11	-5.91	8.00	PASS
	106/54	-11.96	-11.58	-8.76	8.00	PASS

POWER DENSITY 802.11ax HE40						
Freq. (MHz)	RU Config	Ch0 PSD	Ch1 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	full	-14.22	-14.11	-11.15	8.00	PASS
	242/61	-14.58	-14.93	-11.74	8.00	PASS
2437	full	-13.97	-13.05	-10.48	8.00	PASS
2452	full	-18.81	-16.91	-14.75	8.00	PASS
	242/62	-13.52	-12.67	-10.06	8.00	PASS

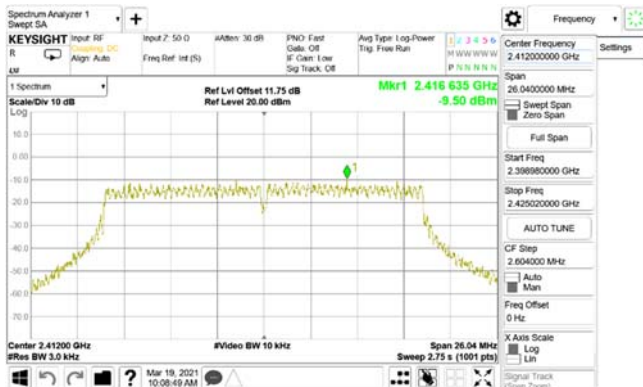
*Refer to next page for plots

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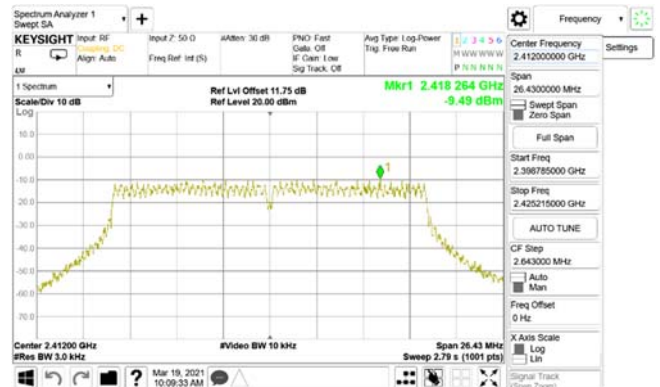
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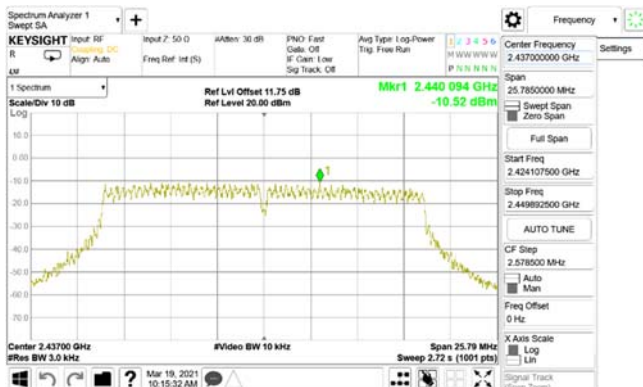
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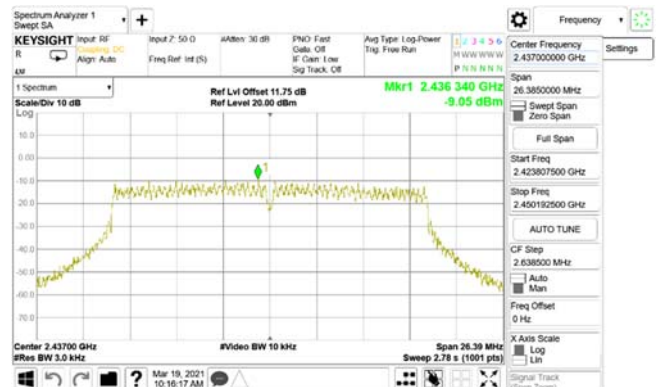
Power Density_802.11n_20MHz_Chain1_2412MHz



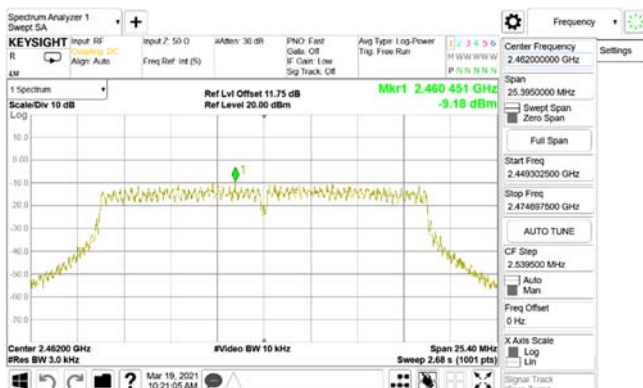
Power Density_802.11n_20MHz_Chain0_2437MHz



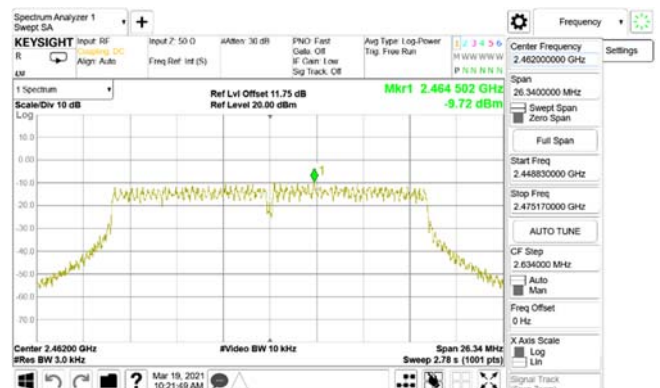
Power Density_802.11n_20MHz_Chain1_2437MHz



Power Density_802.11n_20MHz_Chain0_2462MHz



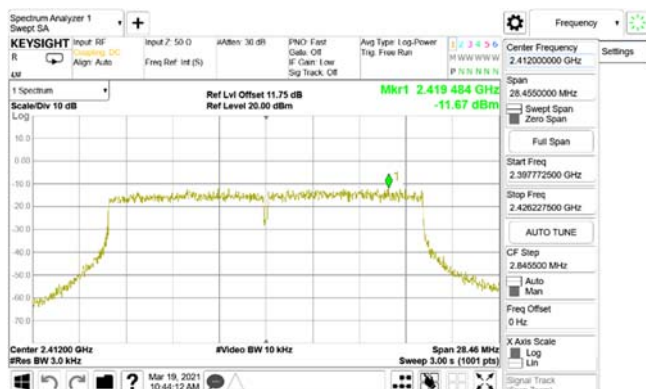
Power Density_802.11n_20MHz_Chain1_2462MHz



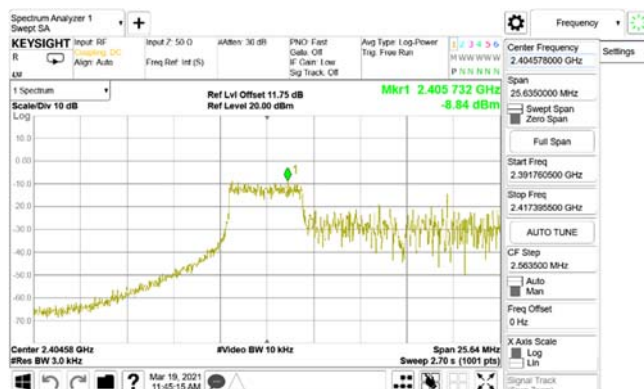
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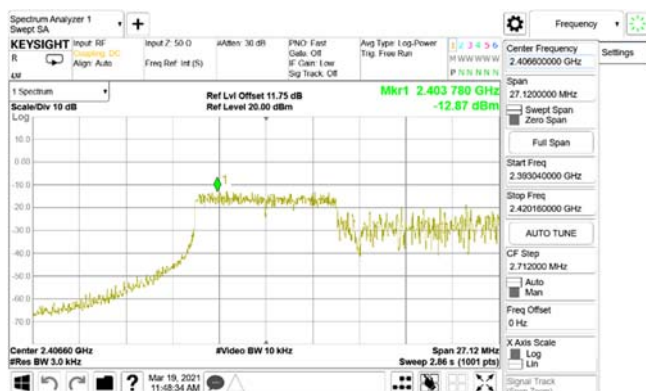
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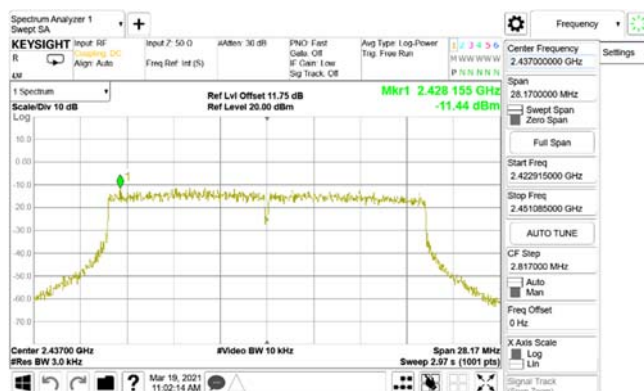
Power Density_802.11ax_20MHz_Chain0_2412MHz_RU52_37



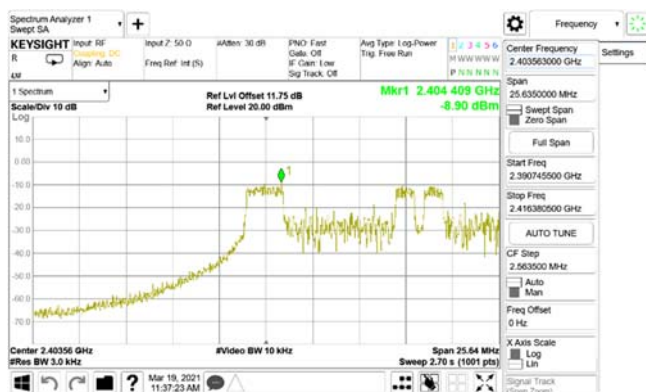
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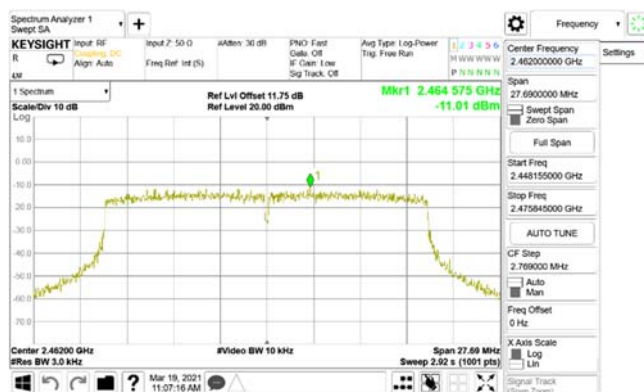
Power Density_802.11ax_20MHz_Chain0_2437MHz



Power Density_802.11ax_20MHz_Chain0_2412MHz_RU26_0



Power Density_802.11ax_20MHz_Chain0_2462MHz

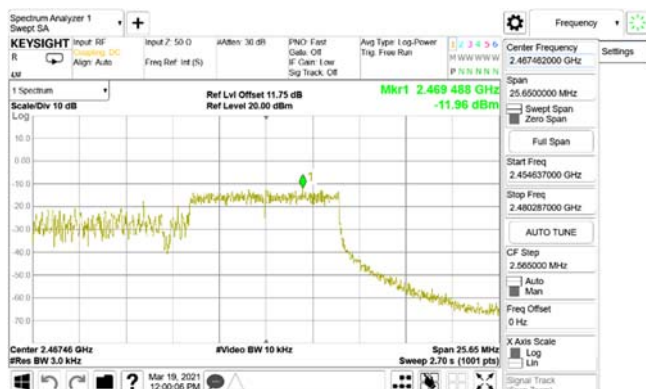


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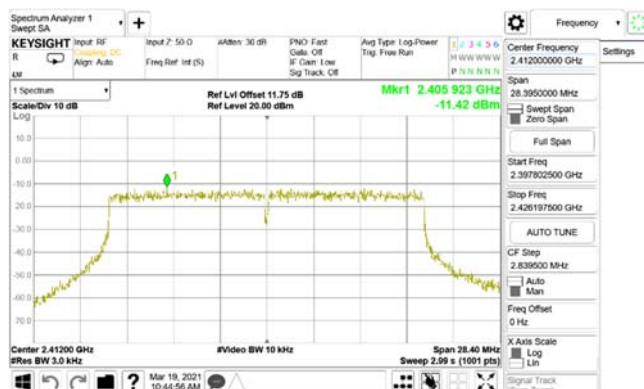
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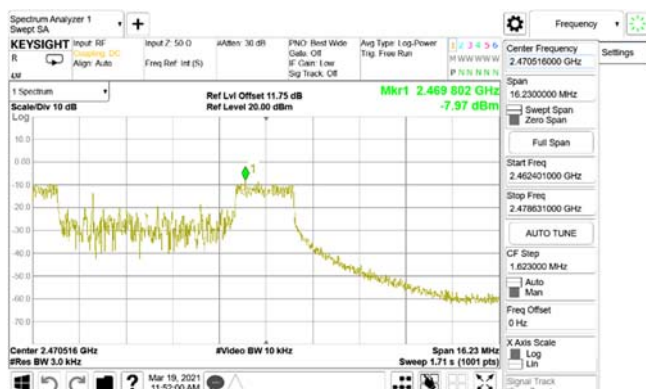
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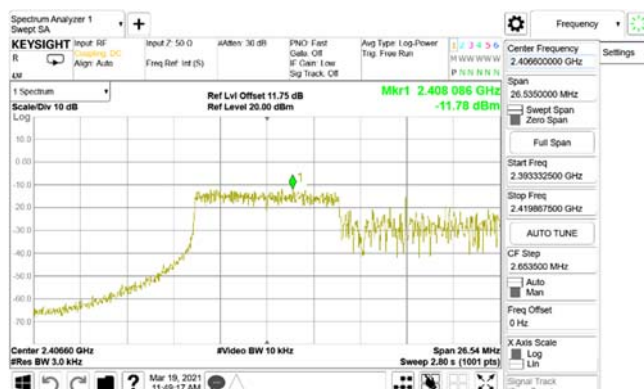
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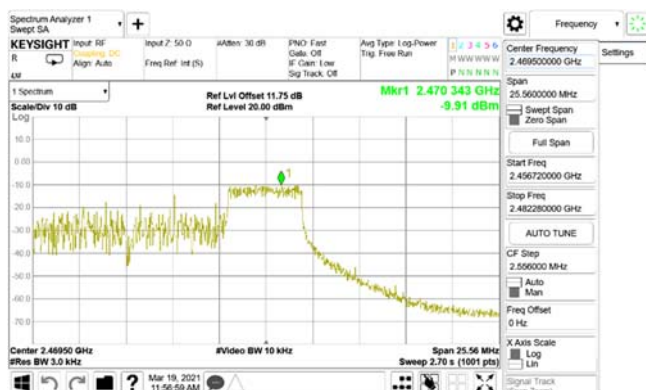
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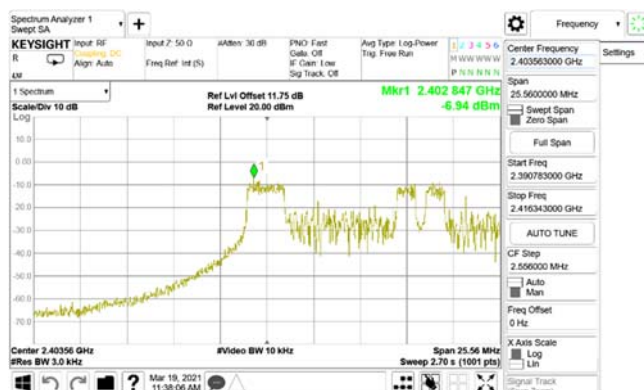
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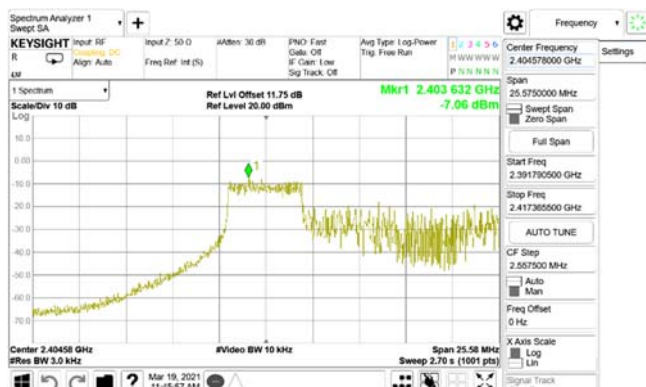


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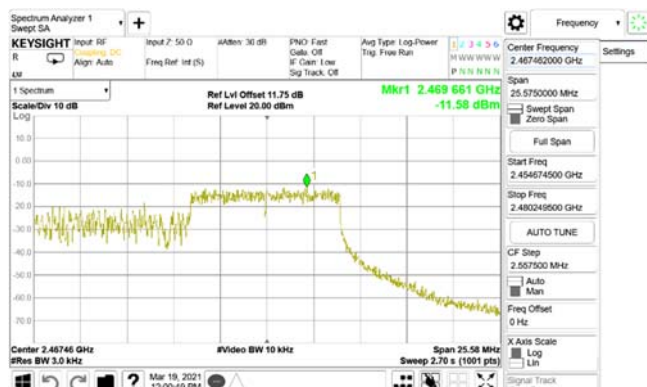
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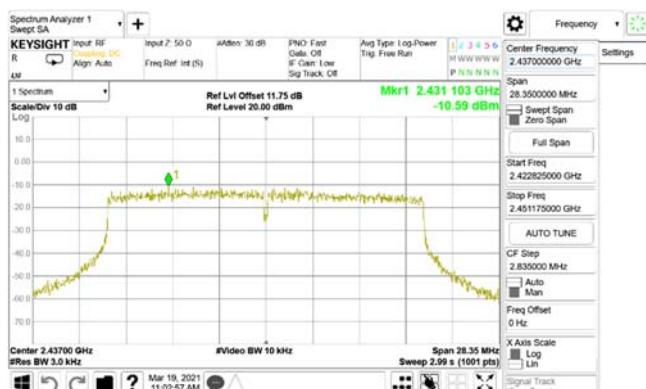
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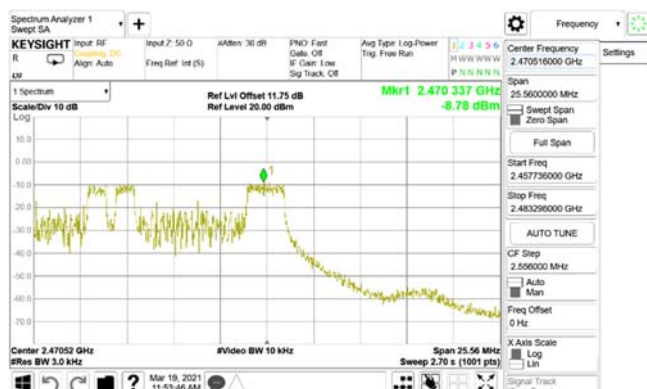
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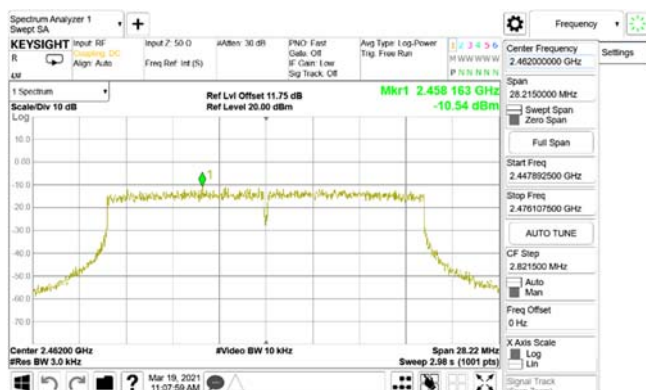
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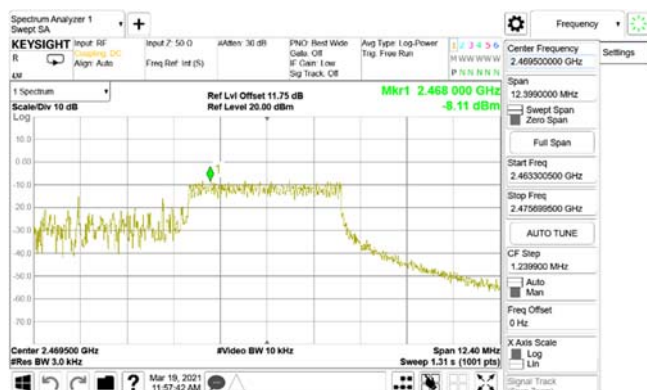
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Power Density_802.11ax_20MHz_Chain1_2462MHz



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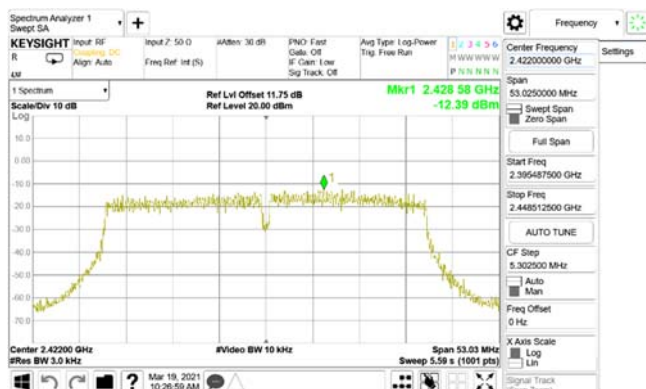


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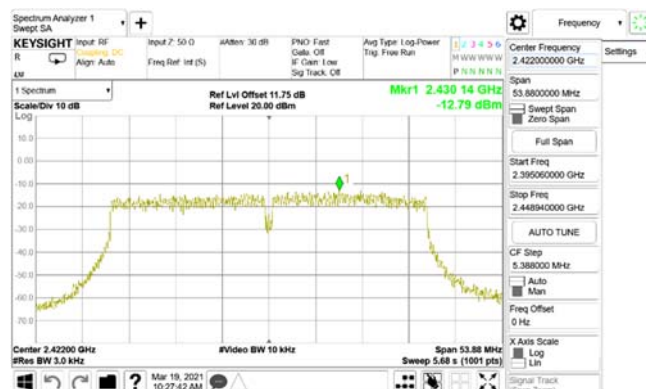
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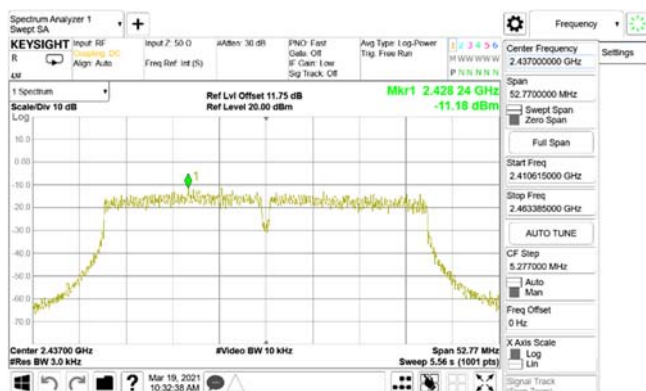
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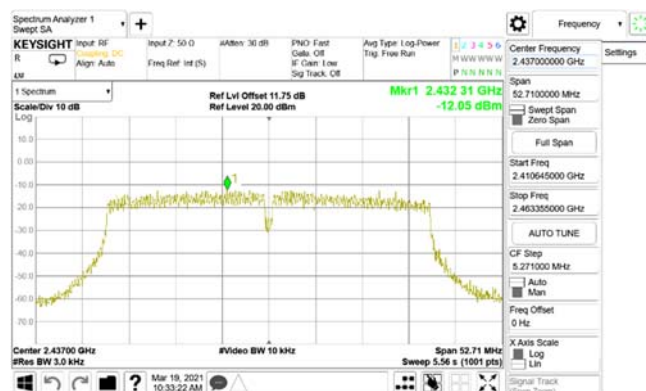
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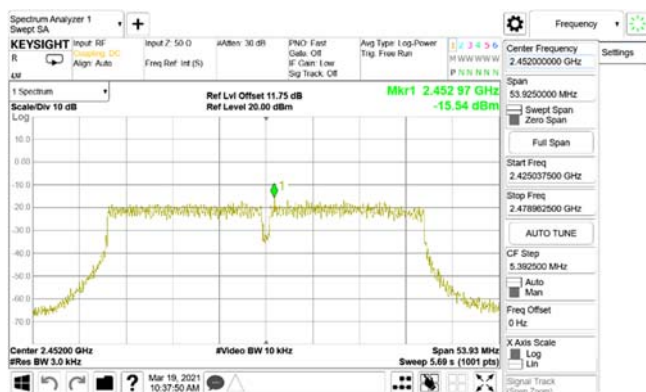
Power Density_802.11n_40MHz_Chain0_2437MHz



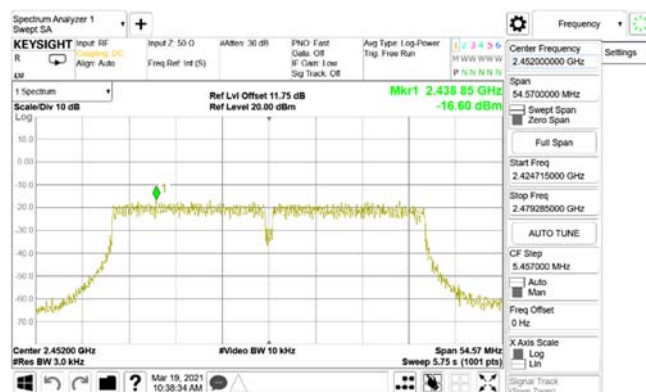
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Power Density_802.11n_40MHz_Chain0_2452MHz



Power Density_802.11n_40MHz_Chain1_2452MHz

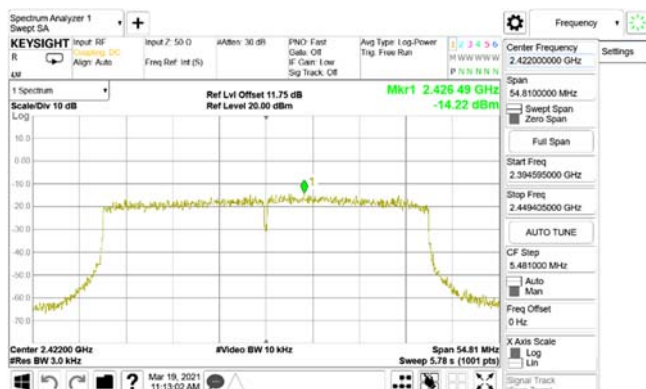


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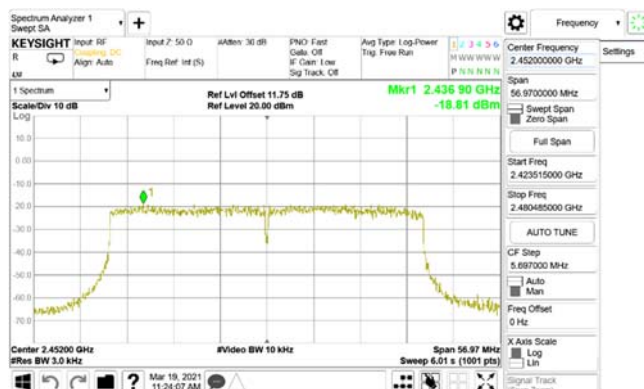
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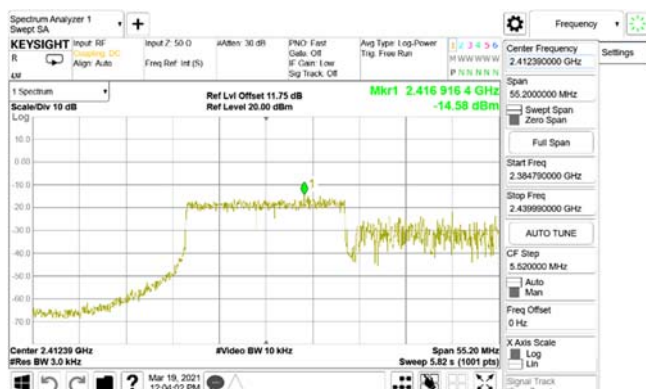
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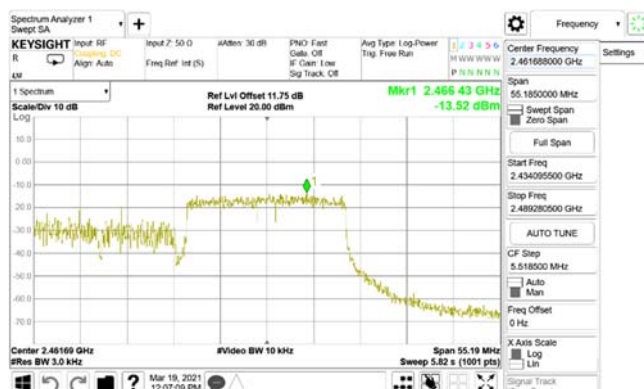
Power Density_802.11ax_40MHz_Chain0_2452MHz



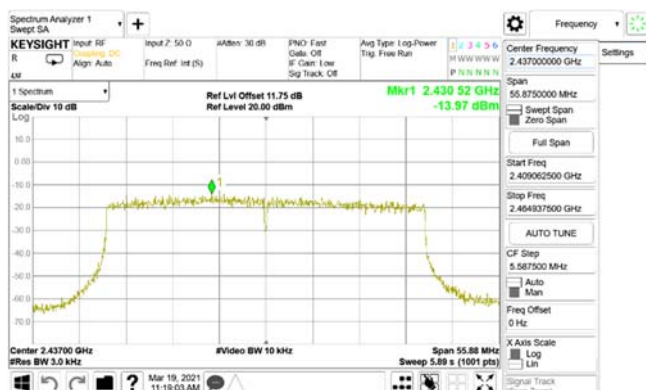
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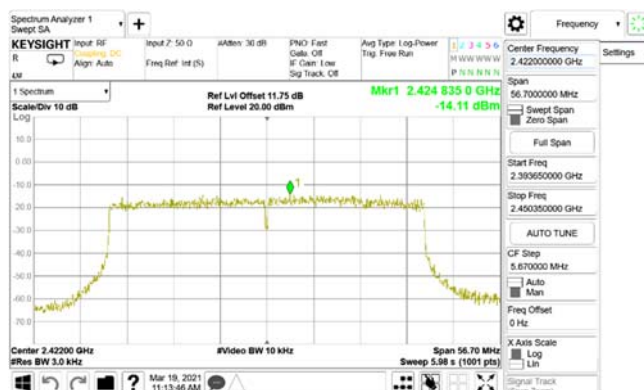
Power Density_802.11ax_40MHz_Chain0_2452MHz_RU242_62



Power Density_802.11ax_40MHz_Chain0_2437MHz



Power Density_802.11ax_40MHz_Chain1_2422MHz



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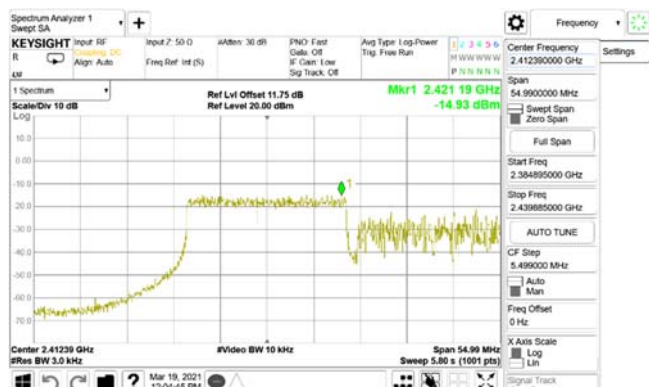
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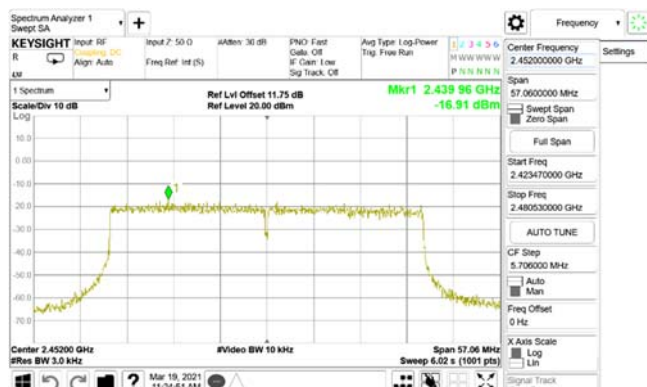
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台灣檢驗科技股份有限公司 t (886-2) 2299-3279 f (886-2) 2298-0488 www.sgs.com.tw

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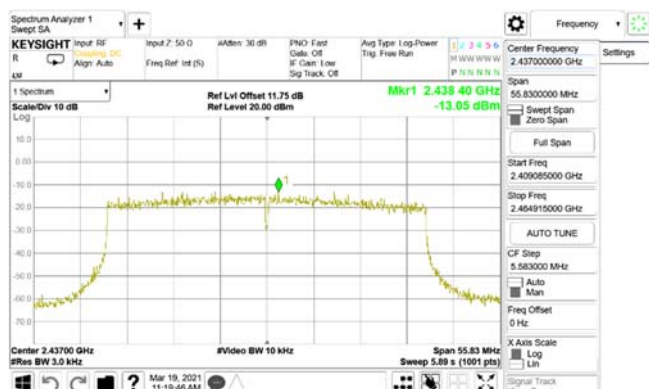
Power Density_802.11ax_40MHz_Chain1_2422MHz_RU242_61



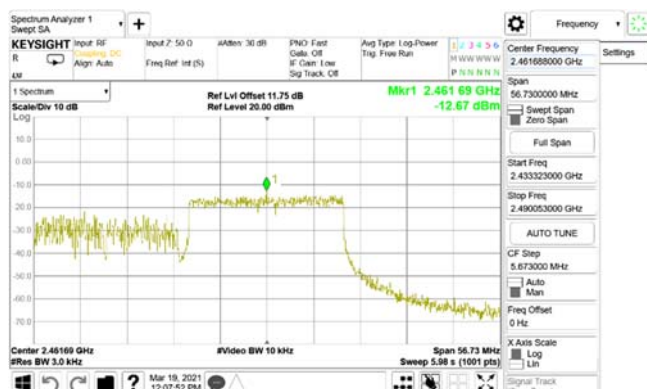
Power Density_802.11ax_40MHz_Chain1_2452MHz



Power Density_802.11ax_40MHz_Chain1_2437MHz



Power Density_802.11ax_40MHz_Chain1_2452MHz_RU242_62



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13 ANTENNA REQUIREMENT

13.1 Standard Applicable

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

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

13.2 Antenna Connected Construction

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

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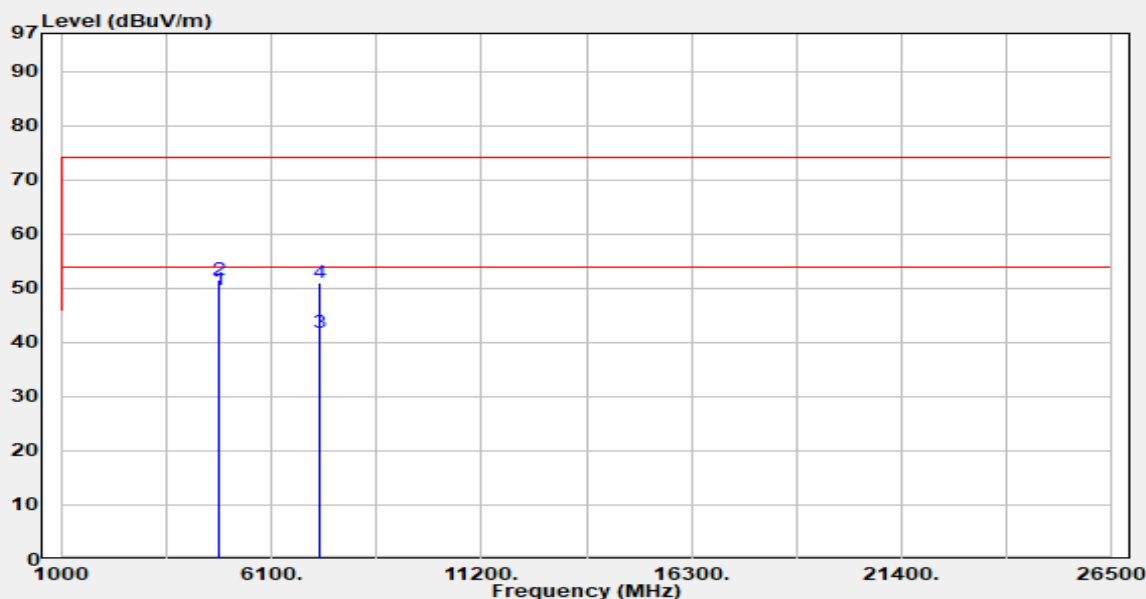
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14 SPOT CHECK

Report Number :ER/2022/30022
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2022-03-23
 Temp./Humi. :24.0/61
 Antenna Pol. :Vertical
 Engineer :GN Lin



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	42.55	7.02	49.57	54.00	-4.43
4824.00	Peak	44.38	7.02	51.40	74.00	-22.60
7236.00	Average	26.05	15.69	41.73	54.00	-12.27
7236.00	Peak	35.20	15.69	50.89	74.00	-23.11

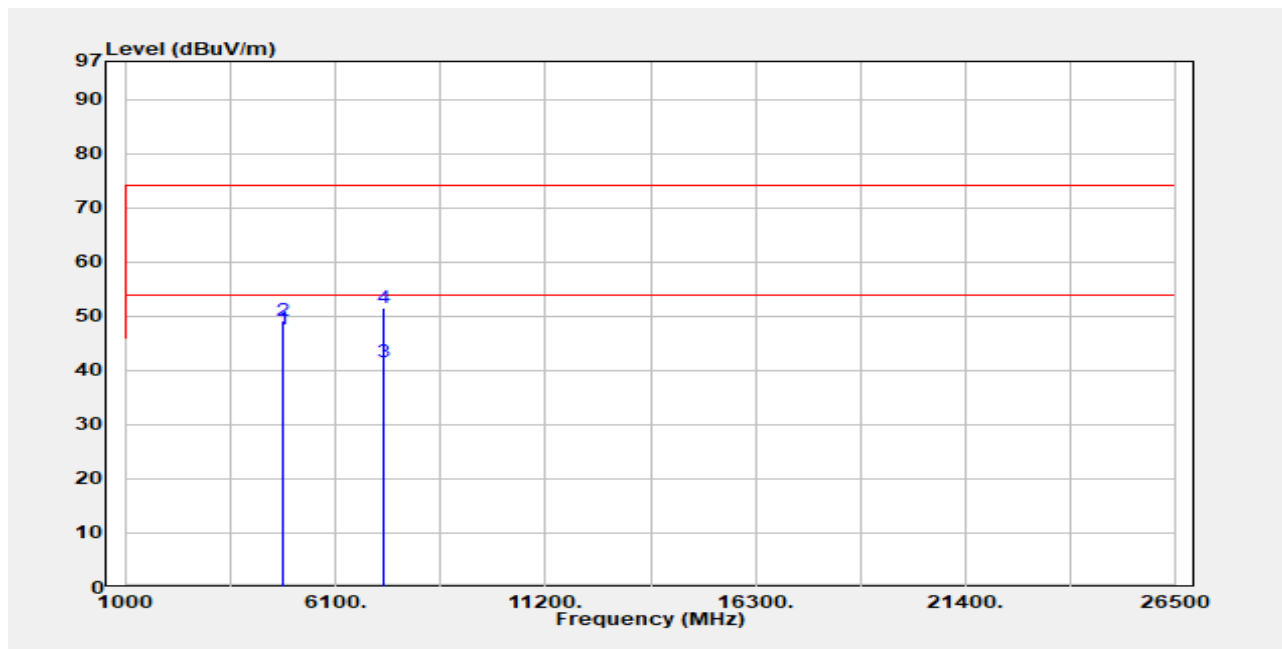
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Report Number :ER/2022/30022
 Operation Mode :802.11b
 Test Frequency :2412 MHz
 Test Mode :Tx CH Low
 EUT Pol :H Plane

Test Site :SAC 1
 Test Date :2022-03-23
 Temp./Humi. :24.0/61
 Antenna Pol. :Horizontal
 Engineer :GN Lin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4824.00	Average	40.52	7.02	47.54	54.00	-6.46
4824.00	Peak	42.14	7.02	49.16	74.00	-24.84
7236.00	Average	25.95	15.69	41.63	54.00	-12.37
7236.00	Peak	35.90	15.69	51.58	74.00	-22.42

~ End of Report ~

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