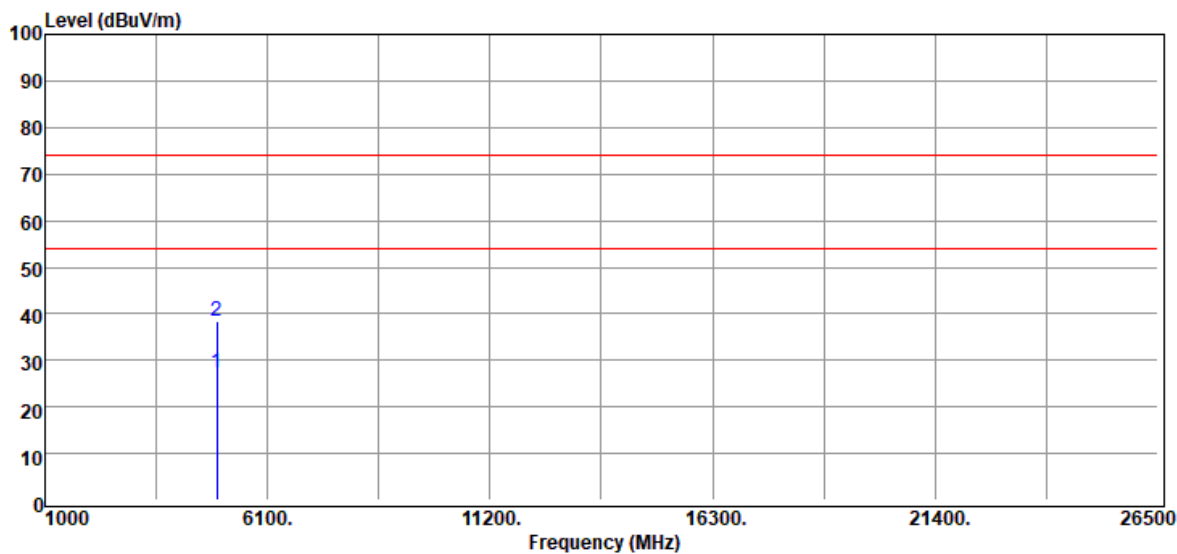


Report Number :E2/2020/70036
Operation Mode :802.11ax20
Test Frequency :2467 MHz
Test Mode :TX CH 12 52/40 RU
EUT Pol :NB Plane
Ant Path / EUT :MIMO / Config 2

Test Site :966 Chamber D
Test Date :2020-07-30
Temp./Humi. :23.4/62
Antenna Pol. :VERTICAL
Engineer :Kailin



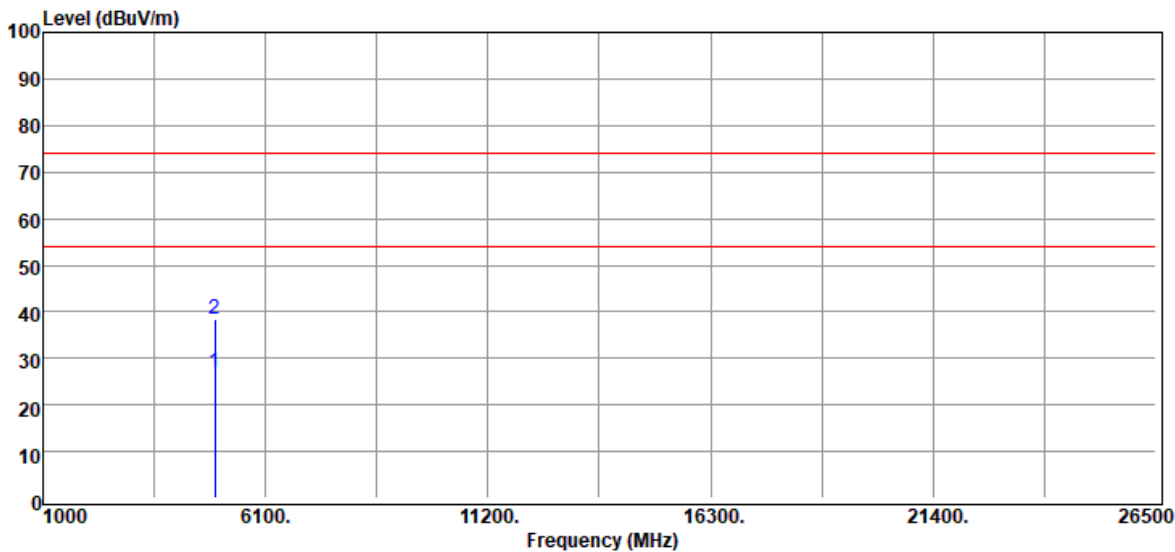
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4934.00	Average	28.00	-0.65	27.35	54.00	-26.65
4934.00	Peak	38.94	-0.65	38.29	74.00	-35.71

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Report Number	:E2/2020/70036	Test Site	:966 Chamber D
Operation Mode	:802.11ax20	Test Date	:2020-07-30
Test Frequency	:2467 MHz	Temp./Humi.	:23.4/62
Test Mode	:TX CH 12 52/40 RU	Antenna Pol.	:HORIZONTAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:MIMO / Config 2		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.00	Average	27.73	-0.65	27.08	54.00	-26.92
4934.00	Peak	39.07	-0.65	38.42	74.00	-35.58

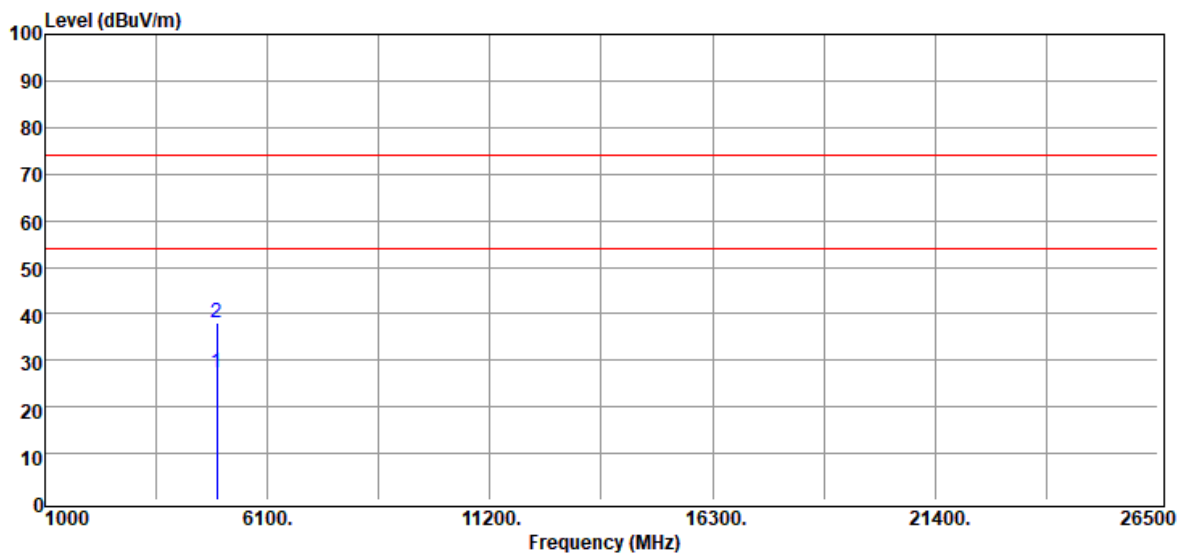
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Report Number :E2/2020/70036
Operation Mode :802.11ax20
Test Frequency :2467 MHz
Test Mode :TX CH 12 106/54 RU
EUT Pol :NB Plane
Ant Path / EUT :MIMO / Config 2

Test Site :966 Chamber D
Test Date :2020-07-30
Temp./Humi. :23.4/62
Antenna Pol. :VERTICAL
Engineer :Kailin



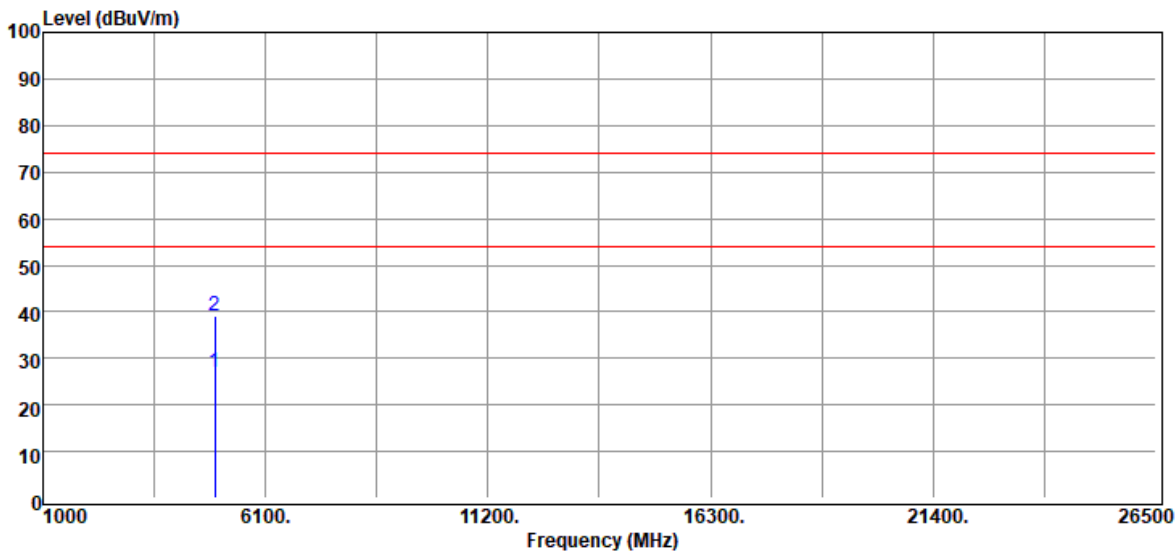
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4934.00	Average	27.83	-0.65	27.18	54.00	-26.82
4934.00	Peak	38.61	-0.65	37.96	74.00	-36.04

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Report Number	:E2/2020/70036	Test Site	:966 Chamber D
Operation Mode	:802.11ax20	Test Date	:2020-07-31
Test Frequency	:2467 MHz	Temp./Humi.	:23.4/62
Test Mode	:TX CH 12 106/54 RU	Antenna Pol.	:HORIZONTAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:MIMO / Config 2		



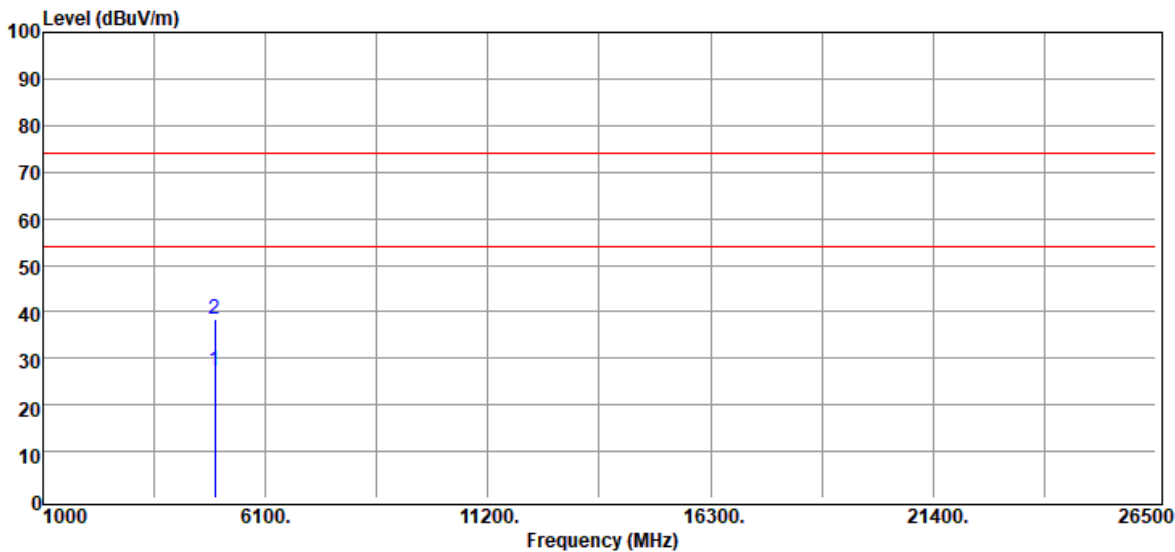
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4934.00	Average	27.62	-0.65	26.97	54.00	-27.03
4934.00	Peak	39.61	-0.65	38.96	74.00	-35.04

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Report Number	:E2/2020/70036	Test Site	:966 Chamber D
Operation Mode	:802.11ax20	Test Date	:2020-07-31
Test Frequency	:2472 MHz	Temp./Humi.	:23.4/62
Test Mode	:TX CH 13 Full RU	Antenna Pol.	:VERTICAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:MIMO / Config 2		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4944.00	Average	28.12	-0.70	27.42	54.00	-26.58
4944.00	Peak	39.12	-0.70	38.42	74.00	-35.58

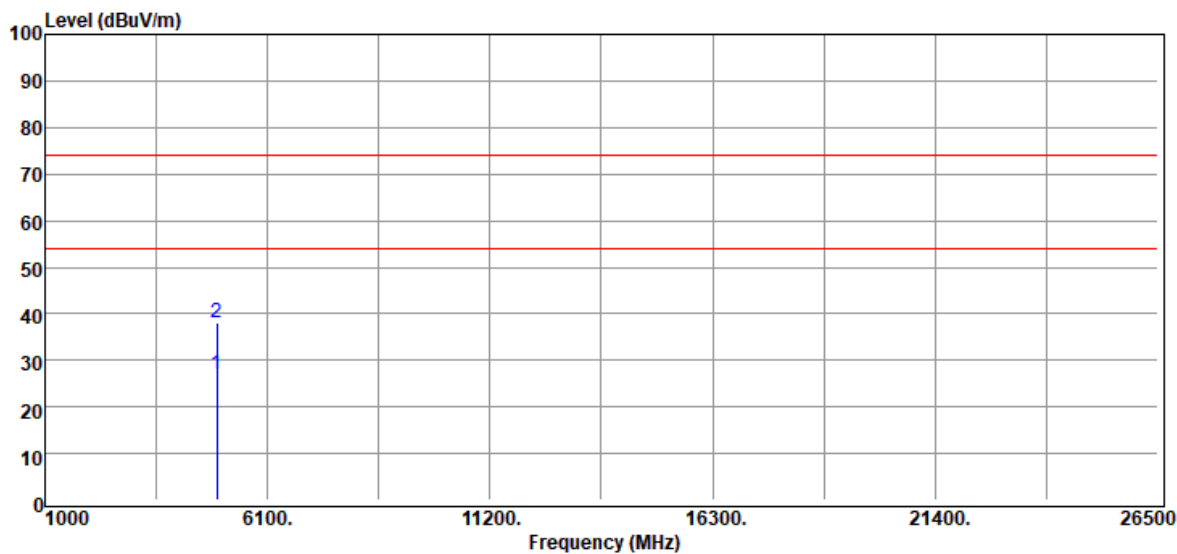
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Report Number :E2/2020/70036
Operation Mode :802.11ax20
Test Frequency :2472 MHz
Test Mode :TX CH 13 Full RU
EUT Pol :NB Plane
Ant Path / EUT :MIMO / Config 2

Test Site :966 Chamber D
Test Date :2020-07-31
Temp./Humi. :23.4/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.00	Average	27.69	-0.70	26.99	54.00	-27.01
4944.00	Peak	38.64	-0.70	37.94	74.00	-36.06

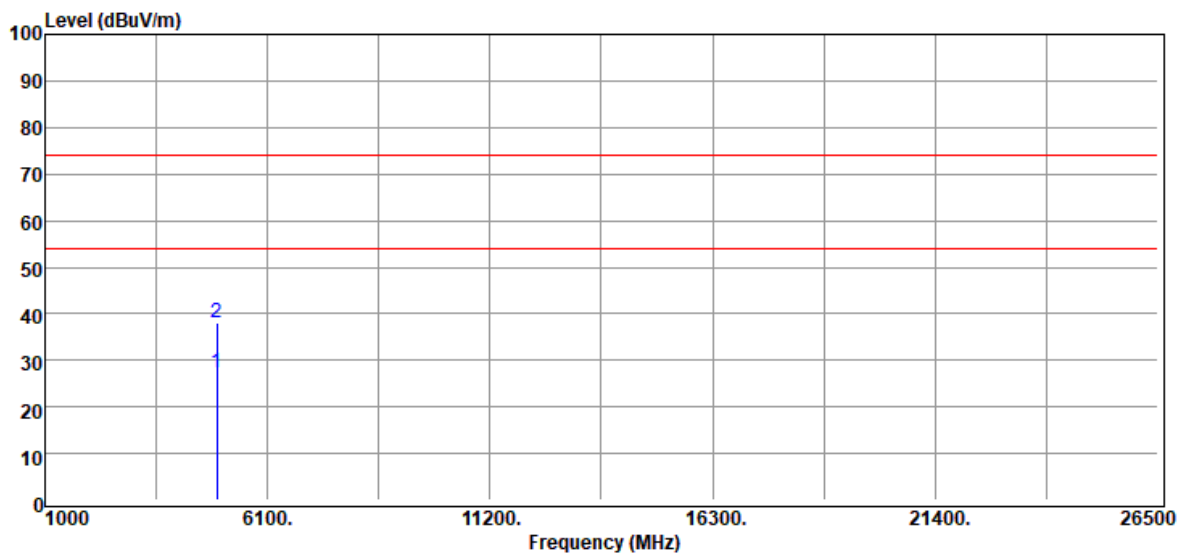
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Report Number :E2/2020/70036
Operation Mode :802.11ax20
Test Frequency :2472 MHz
Test Mode :TX CH 13 26/8 RU
EUT Pol :NB Plane
Ant Path / EUT :MIMO / Config 2

Test Site :966 Chamber D
Test Date :2020-07-31
Temp./Humi. :23.4/62
Antenna Pol. :VERTICAL
Engineer :Kailin



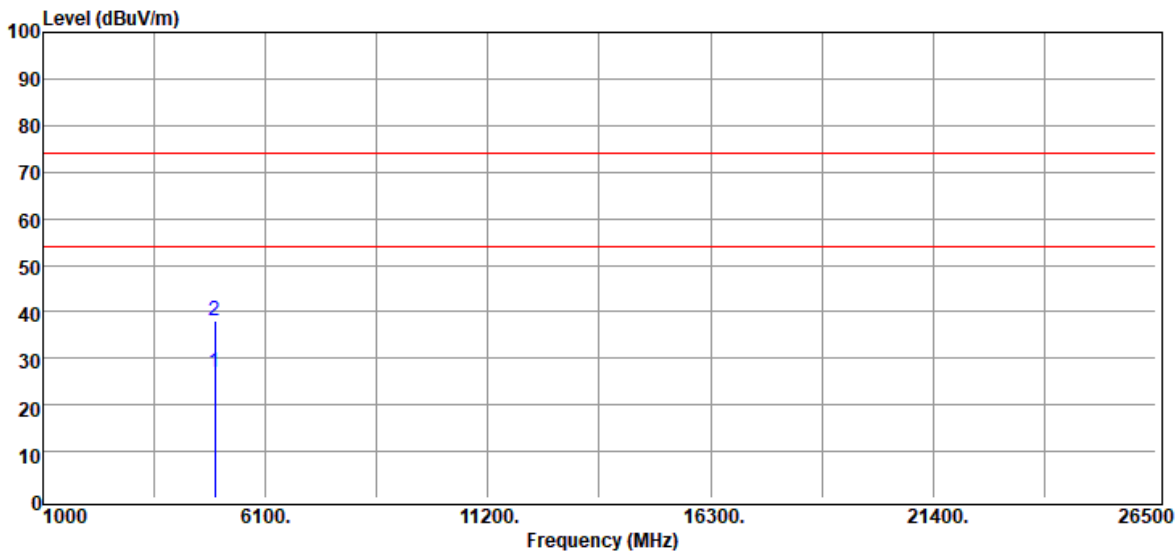
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4944.00	Average	27.98	-0.70	27.28	54.00	-26.72
4944.00	Peak	38.66	-0.70	37.96	74.00	-36.04

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Report Number	:E2/2020/70036	Test Site	:966 Chamber D
Operation Mode	:802.11ax20	Test Date	:2020-07-31
Test Frequency	:2472 MHz	Temp./Humi.	:23.4/62
Test Mode	:TX CH 13 26/8 RU	Antenna Pol.	:HORIZONTAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:MIMO / Config 2		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.00	Average	27.70	-0.70	27.00	54.00	-27.00
4944.00	Peak	38.88	-0.70	38.18	74.00	-35.82

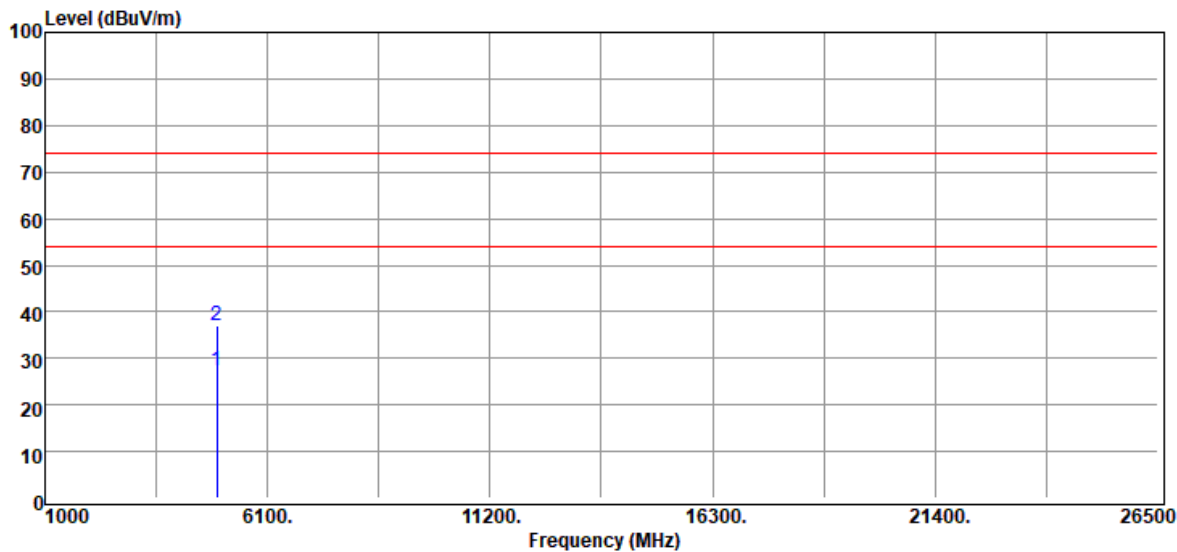
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Report Number :E2/2020/70036
Operation Mode :802.11ax20
Test Frequency :2472 MHz
Test Mode :TX CH 13 52/40 RU
EUT Pol :NB Plane
Ant Path / EUT :MIMO / Config 2

Test Site :966 Chamber D
Test Date :2020-07-31
Temp./Humi. :23.4/62
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.00	Average	27.94	-0.70	27.24	54.00	-26.76
4944.00	Peak	37.60	-0.70	36.90	74.00	-37.10

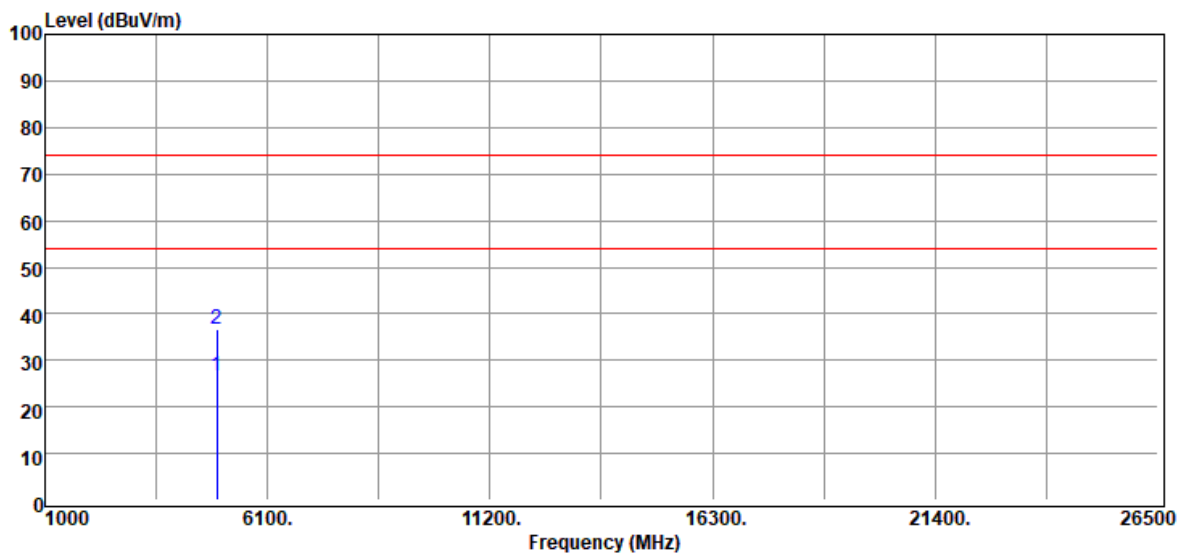
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Report Number :E2/2020/70036
Operation Mode :802.11ax20
Test Frequency :2472 MHz
Test Mode :TX CH 13 52/40 RU
EUT Pol :NB Plane
Ant Path / EUT :MIMO / Config 2

Test Site :966 Chamber D
Test Date :2020-07-31
Temp./Humi. :23.4/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.00	Average	27.46	-0.70	26.76	54.00	-27.24
4944.00	Peak	37.53	-0.70	36.83	74.00	-37.17

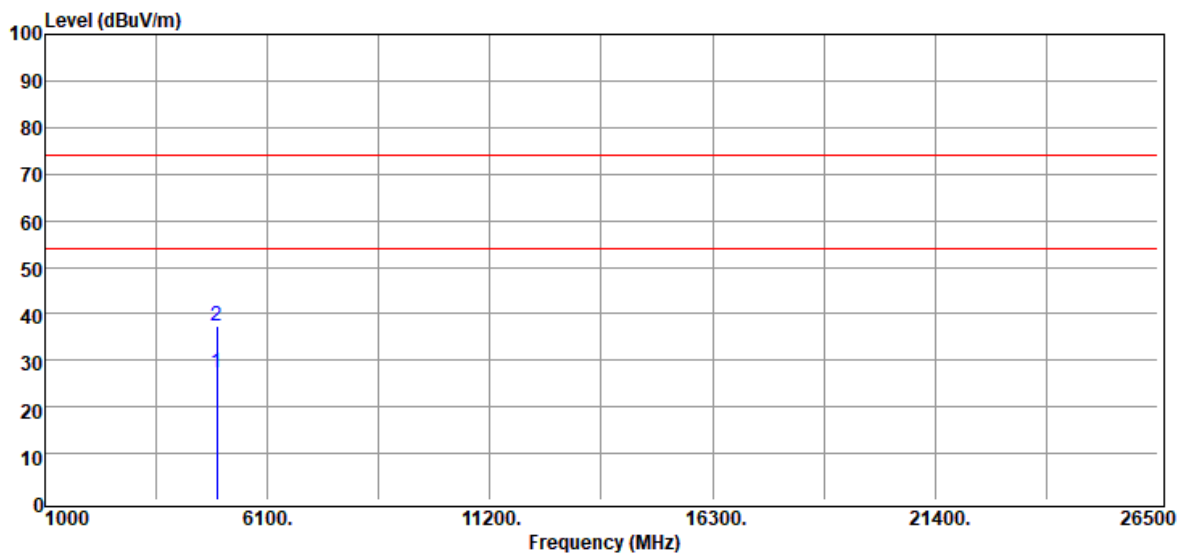
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Report Number :E2/2020/70036
Operation Mode :802.11ax20
Test Frequency :2472 MHz
Test Mode :TX CH 13 106/54 RU
EUT Pol :NB Plane
Ant Path / EUT :MIMO / Config 2

Test Site :966 Chamber D
Test Date :2020-07-31
Temp./Humi. :23.4/62
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.00	Average	28.02	-0.70	27.32	54.00	-26.68
4944.00	Peak	37.97	-0.70	37.27	74.00	-36.73

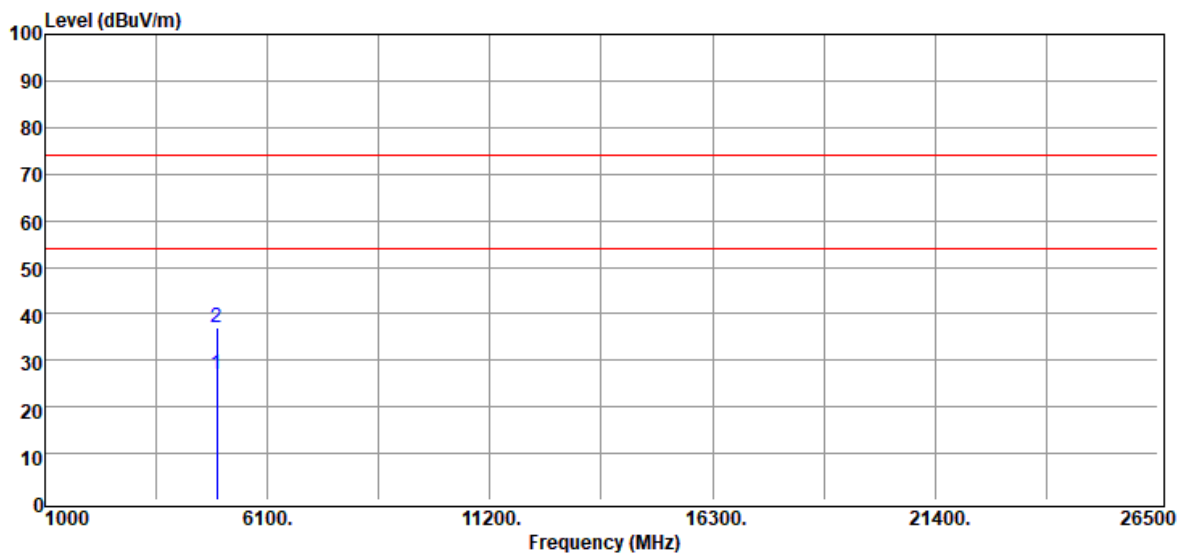
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Report Number :E2/2020/70036
Operation Mode :802.11ax20
Test Frequency :2472 MHz
Test Mode :TX CH 13 106/54 RU
EUT Pol :NB Plane
Ant Path / EUT :MIMO / Config 2

Test Site :966 Chamber D
Test Date :2020-07-31
Temp./Humi. :23.4/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin



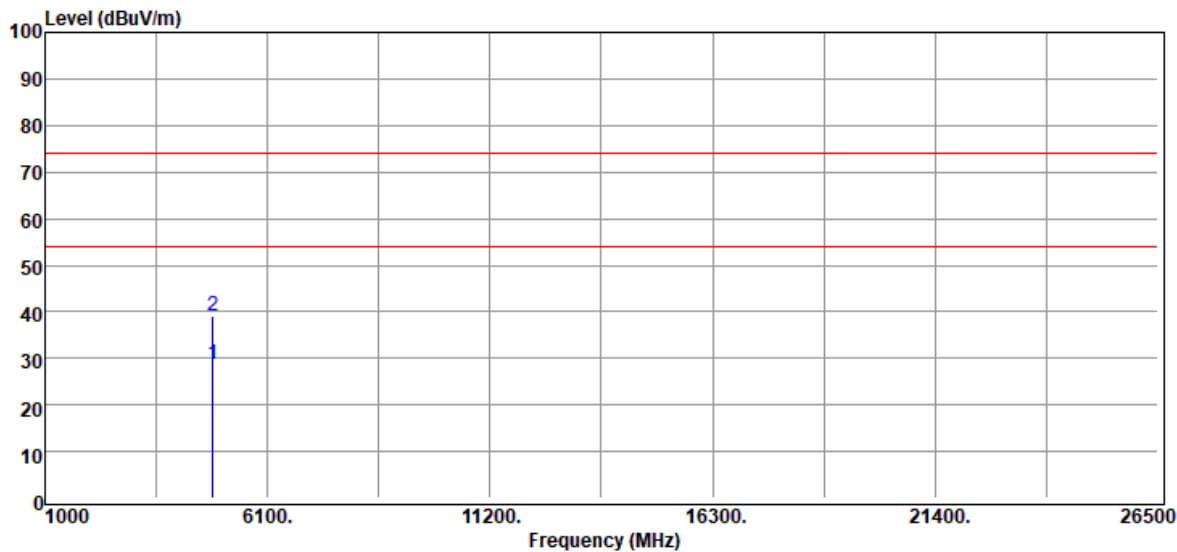
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4944.00	Average	27.63	-0.70	26.93	54.00	-27.07
4944.00	Peak	37.80	-0.70	37.10	74.00	-36.90

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Report Number	:E2/2020/70036	Test Site	:966 Chamber D
Operation Mode	:802.11ax40	Test Date	:2020-07-31
Test Frequency	:2422 MHz	Temp./Humi.	:23.4/62
Test Mode	:TX CH LOW Full RU	Antenna Pol.	:VERTICAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:MIMO / Config 2		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4844.00	Average	29.03	-0.33	28.70	54.00	-25.30
4844.00	Peak	39.56	-0.33	39.23	74.00	-34.77

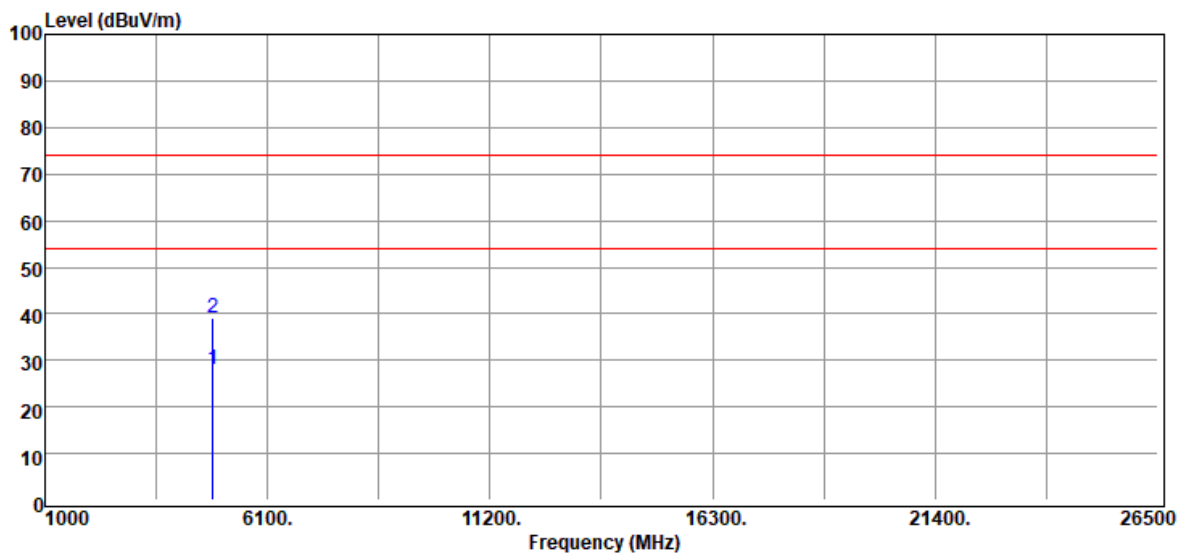
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Report Number :E2/2020/70036
Operation Mode :802.11ax40
Test Frequency :2422 MHz
Test Mode :TX CH LOW Full RU
EUT Pol :NB Plane
Ant Path / EUT :MIMO / Config 2

Test Site :966 Chamber D
Test Date :2020-07-31
Temp./Humi. :23.4/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin



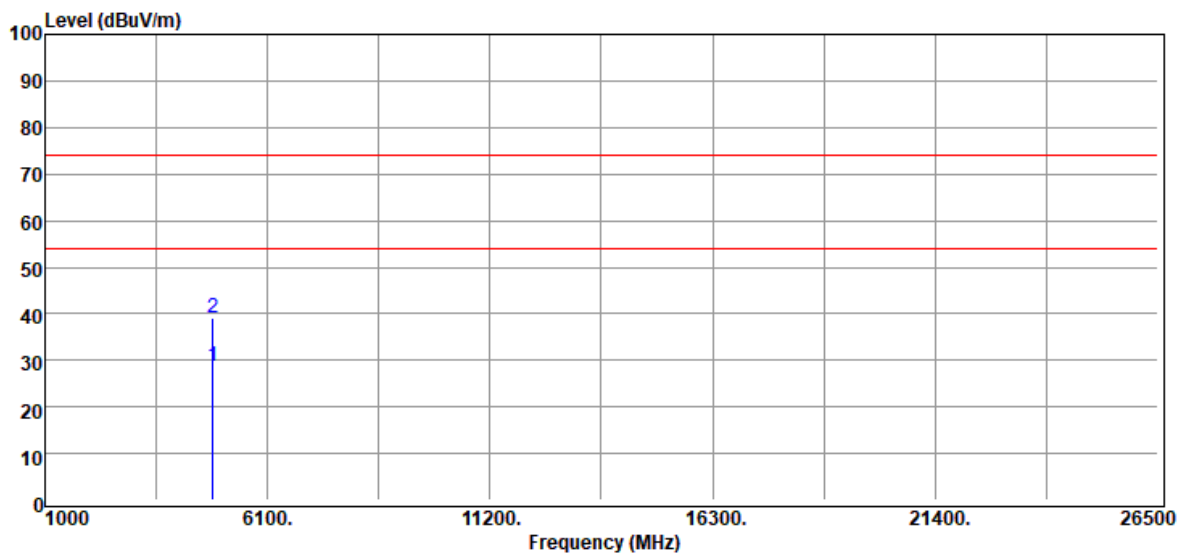
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4844.00	Average	28.48	-0.33	28.15	54.00	-25.85
4844.00	Peak	39.42	-0.33	39.09	74.00	-34.91

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Report Number	:E2/2020/70036	Test Site	:966 Chamber D
Operation Mode	:802.11ax40	Test Date	:2020-07-31
Test Frequency	:2422 MHz	Temp./Humi.	:23.4/62
Test Mode	:TX CH LOW 242/61 RU	Antenna Pol.	:VERTICAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:MIMO / Config 2		



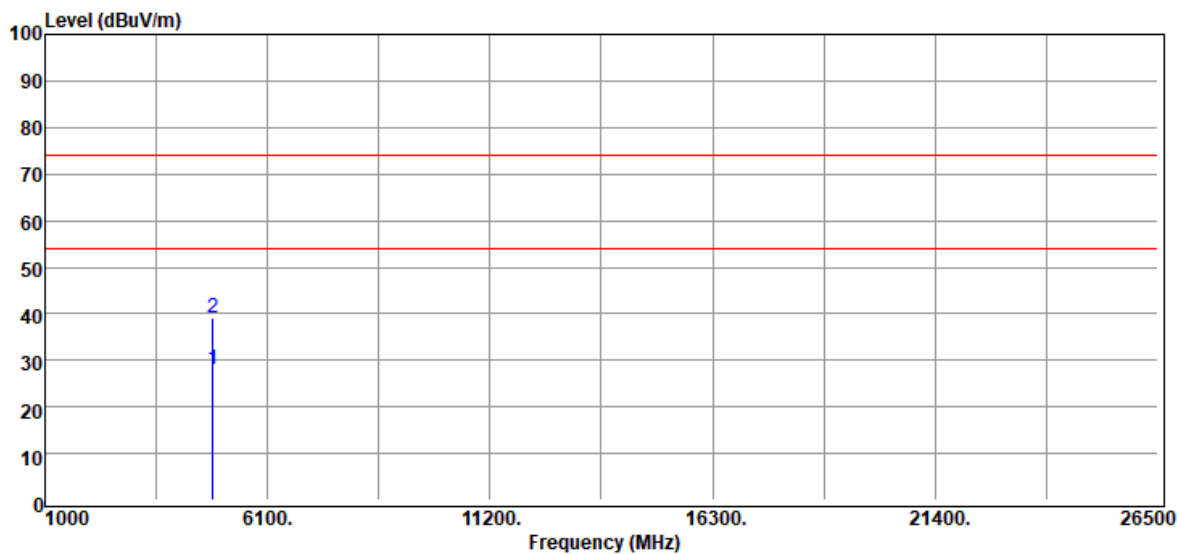
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4844.00	Average	28.89	-0.33	28.56	54.00	-25.44
4844.00	Peak	39.43	-0.33	39.10	74.00	-34.90

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Report Number	:E2/2020/70036	Test Site	:966 Chamber D
Operation Mode	:802.11ax40	Test Date	:2020-07-31
Test Frequency	:2422 MHz	Temp./Humi.	:23.4/62
Test Mode	:TX CH LOW 242/61 RU	Antenna Pol.	:HORIZONTAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:MIMO / Config 2		



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	28.40	-0.33	28.07	54.00	-25.93
4844.00	Peak	39.55	-0.33	39.22	74.00	-34.78

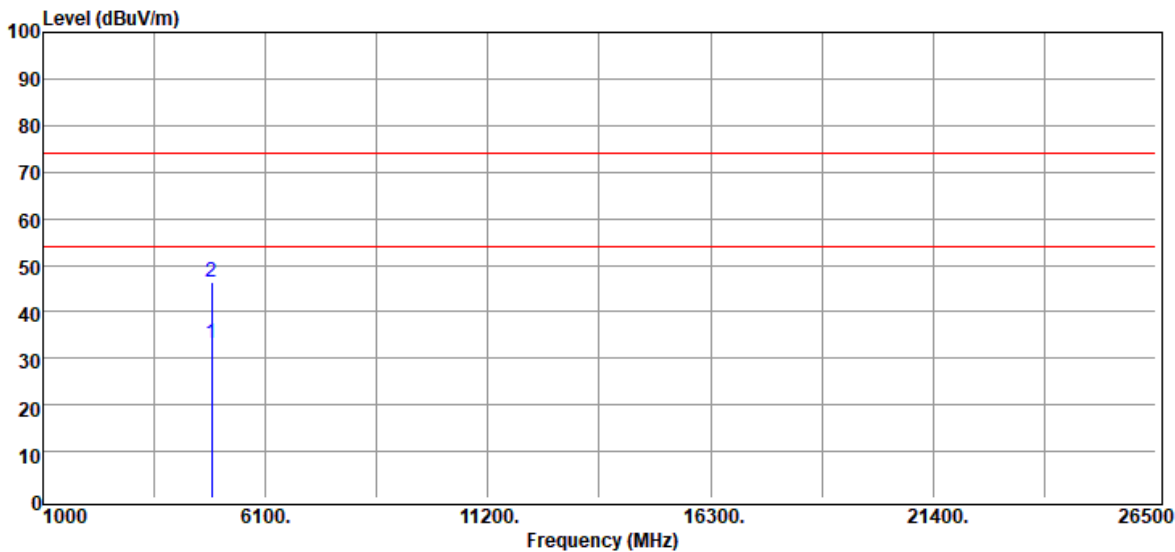
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Report Number :E2/2020/70036
Operation Mode :802.11ax40
Test Frequency :2437 MHz
Test Mode :TX CH MID Full RU
EUT Pol :NB Plane
Ant Path / EUT :MIMO / Config 2

Test Site :966 Chamber D
Test Date :2020-07-11
Temp./Humi. :21.2/64
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4874.00	Average	33.78	-0.42	33.36	54.00	-20.64
4874.00	Peak	46.75	-0.42	46.33	74.00	-27.67

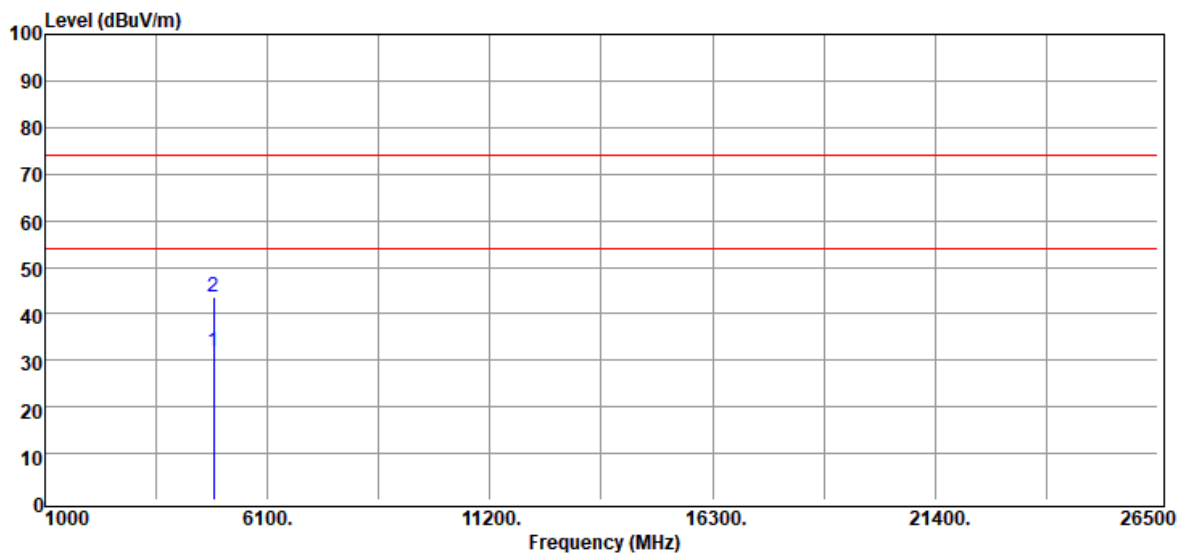
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Report Number :E2/2020/70036
Operation Mode :802.11ax40
Test Frequency :2437 MHz
Test Mode :TX CH MID Full RU
EUT Pol :NB Plane
Ant Path / EUT :MIMO / Config 2

Test Site :966 Chamber D
Test Date :2020-07-11
Temp./Humi. :21.2/64
Antenna Pol. :HORIZONTAL
Engineer :Kailin



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	32.42	-0.42	32.00	54.00	-22.00
4874.00	Peak	44.08	-0.42	43.66	74.00	-30.34

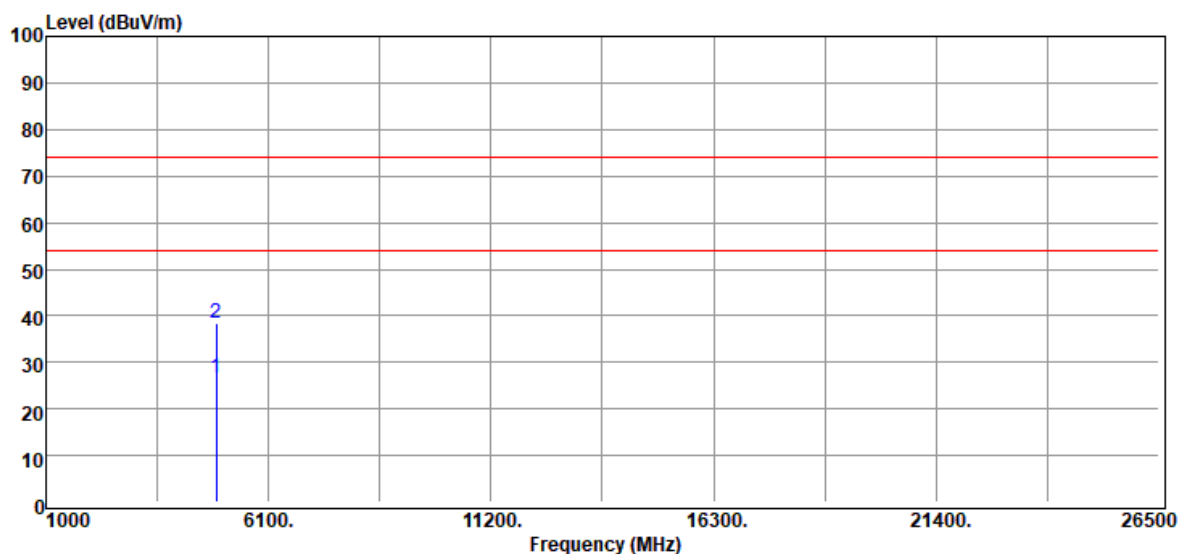
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Report Number :E2/2020/70036
Operation Mode :802.11ax40
Test Frequency :2452 MHz
Test Mode :TX CH HIGH Full RU
EUT Pol :NB Plane
Ant Path / EUT :MIMO / Config 2

Test Site :966 Chamber D
Test Date :2020-07-31
Temp./Humi. :23.4/62
Antenna Pol. :VERTICAL
Engineer :Kailin



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4904.00	Average	27.31	-0.51	26.80	54.00	-27.20
4904.00	Peak	38.88	-0.51	38.37	74.00	-35.63

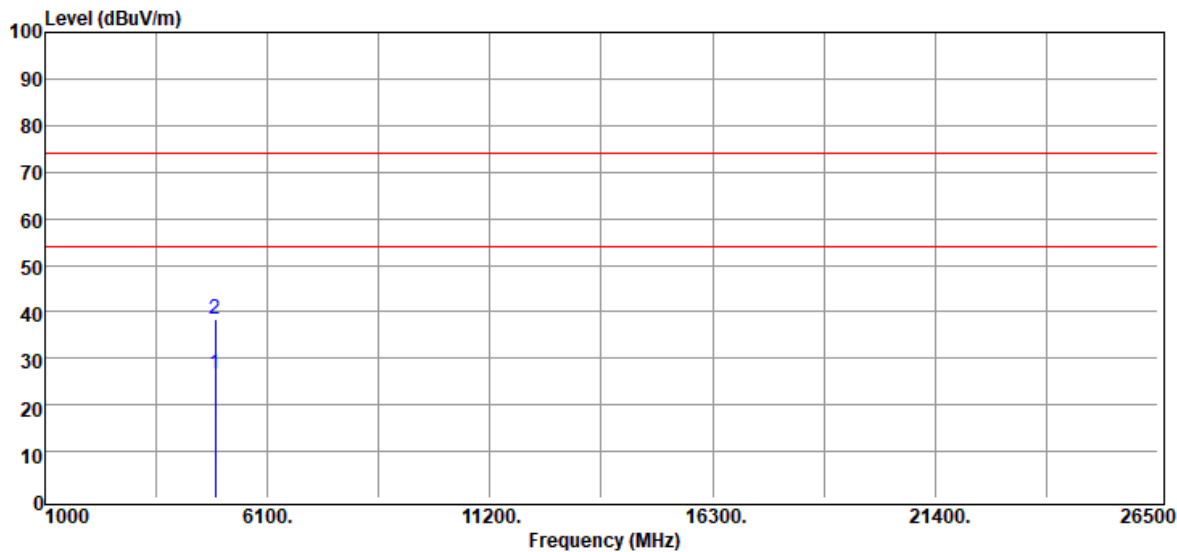
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Report Number :E2/2020/70036
Operation Mode :802.11ax40
Test Frequency :2452 MHz
Test Mode :TX CH HIGH Full RU
EUT Pol :NB Plane
Ant Path / EUT :MIMO / Config 2

Test Site :966 Chamber D
Test Date :2020-07-31
Temp./Humi. :23.4/62
Antenna Pol. :HORIZONTAL
Engineer :Kailin



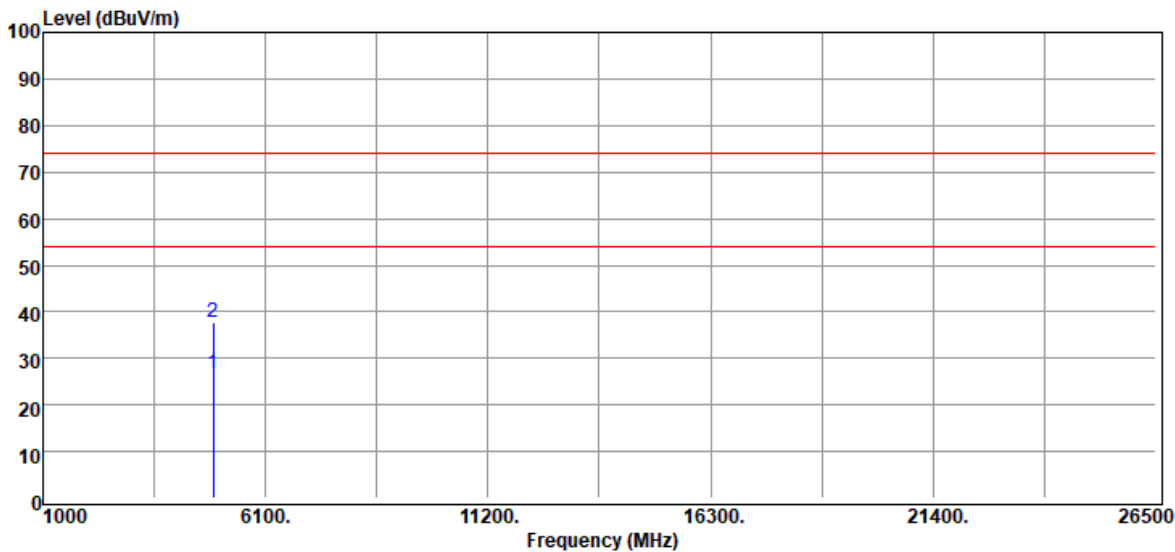
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	Average	27.11	-0.51	26.60	54.00	-27.40
4904.00	Peak	38.84	-0.51	38.33	74.00	-35.67

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Report Number	:E2/2020/70036	Test Site	:966 Chamber D
Operation Mode	:802.11ax40	Test Date	:2020-07-31
Test Frequency	:2452 MHz	Temp./Humi.	:23.4/62
Test Mode	:TX CH HIGH 242/62 RU	Antenna Pol.	:VERTICAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:MIMO / Config 2		



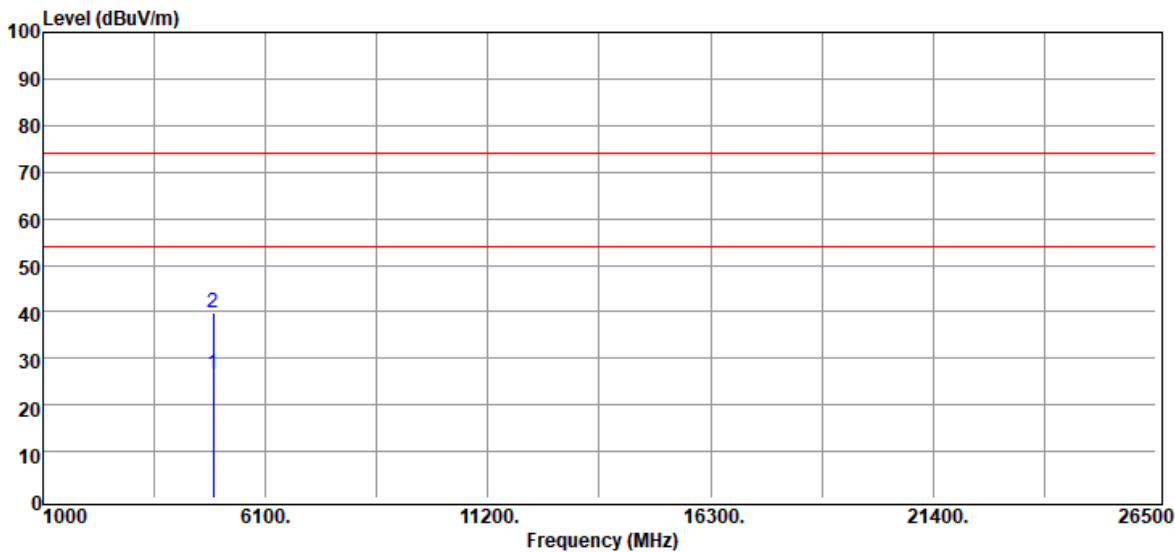
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4904.00	Average	27.11	-0.51	26.60	54.00	-27.40
4904.00	Peak	38.35	-0.51	37.84	74.00	-36.16

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Report Number	:E2/2020/70036	Test Site	:966 Chamber D
Operation Mode	:802.11ax40	Test Date	:2020-07-31
Test Frequency	:2452 MHz	Temp./Humi.	:23.4/62
Test Mode	:TX CH HIGH 242/62 RU	Antenna Pol.	:HORIZONTAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:MIMO / Config 2		



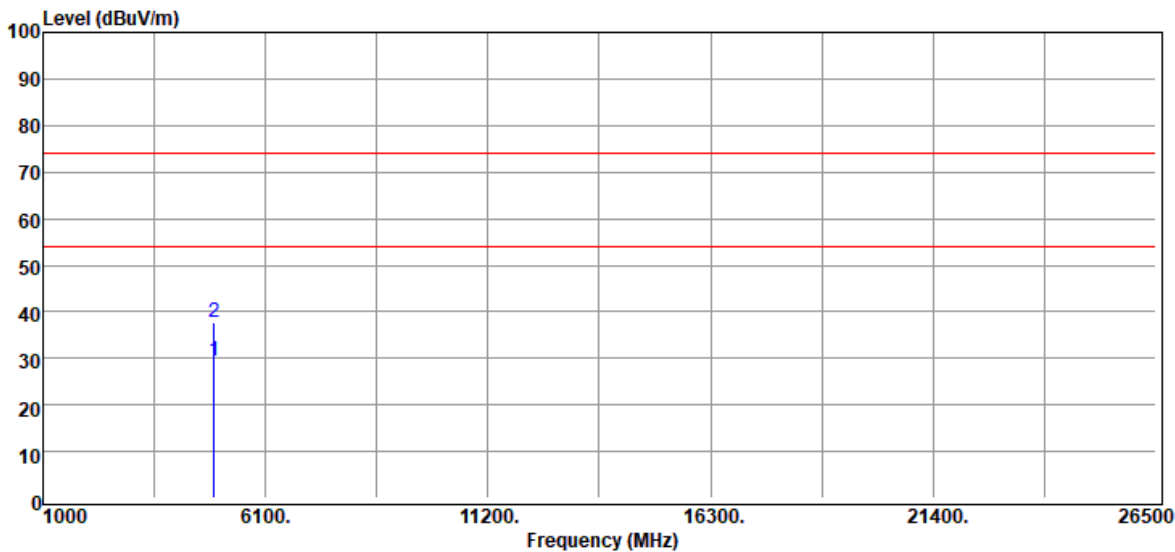
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4904.00	Average	27.16	-0.51	26.65	54.00	-27.35
4904.00	Peak	40.41	-0.51	39.90	74.00	-34.10

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Report Number	:E2/2020/70036	Test Site	:966 Chamber D
Operation Mode	:802.11ax40	Test Date	:2020-07-31
Test Frequency	:2457 MHz	Temp./Humi.	:23.4/62
Test Mode	:TX CH 10 Full RU	Antenna Pol.	:VERTICAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:MIMO / Config 2		



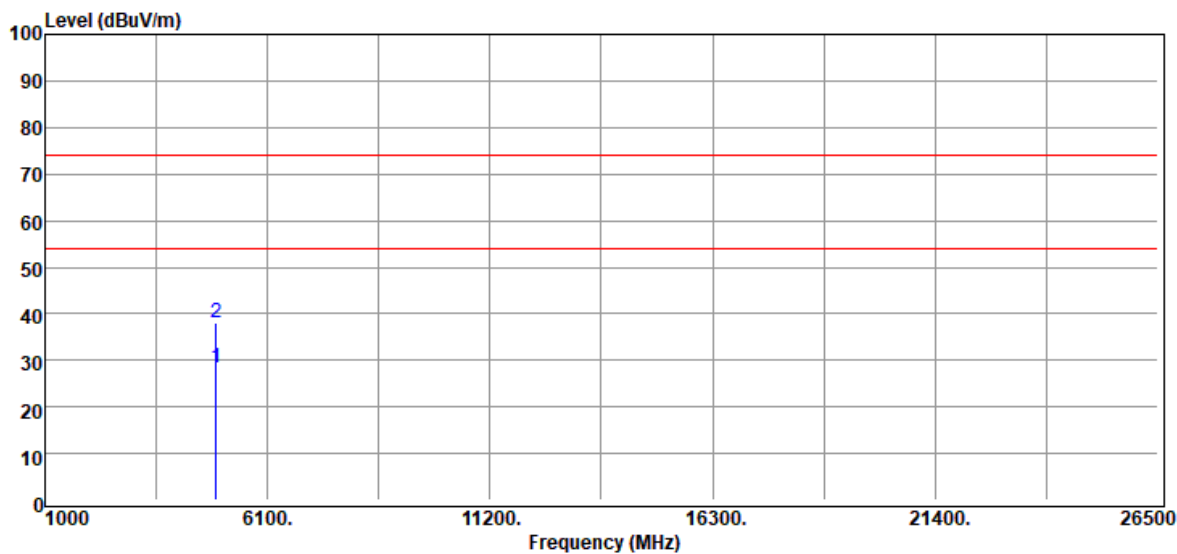
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
Mode	Reading Level			FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4914.00	Average	29.90	-0.56	29.34	54.00	-24.66
4914.00	Peak	38.29	-0.56	37.73	74.00	-36.27

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Report Number	:E2/2020/70036	Test Site	:966 Chamber D
Operation Mode	:802.11ax40	Test Date	:2020-07-31
Test Frequency	:2457 MHz	Temp./Humi.	:23.4/62
Test Mode	:TX CH 10 Full RU	Antenna Pol.	:HORIZONTAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:MIMO / Config 2		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4914.00	Average	28.77	-0.56	28.21	54.00	-25.79
4914.00	Peak	38.76	-0.56	38.20	74.00	-35.80

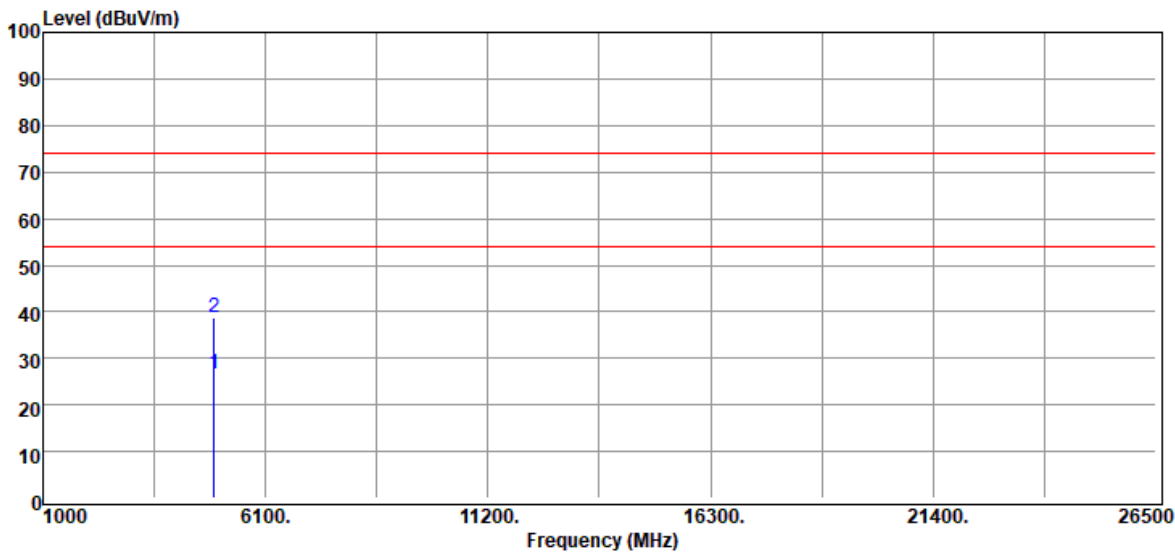
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Report Number :E2/2020/70036
Operation Mode :802.11ax40
Test Frequency :2457 MHz
Test Mode :TX CH 10 242/62 RU
EUT Pol :NB Plane
Ant Path / EUT :MIMO / Config 2

Test Site :966 Chamber D
Test Date :2020-07-31
Temp./Humi. :23.4/62
Antenna Pol. :VERTICAL
Engineer :Kailin



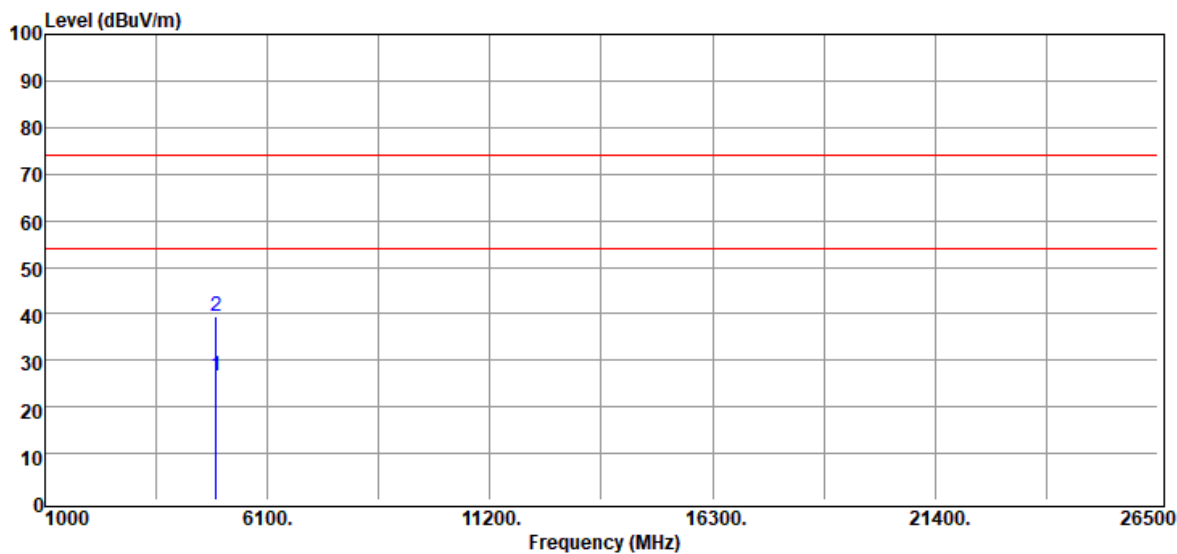
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4914.00	Average	27.20	-0.56	26.64	54.00	-27.36
4914.00	Peak	39.37	-0.56	38.81	74.00	-35.19

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Report Number	:E2/2020/70036	Test Site	:966 Chamber D
Operation Mode	:802.11ax40	Test Date	:2020-07-31
Test Frequency	:2457 MHz	Temp./Humi.	:23.4/62
Test Mode	:TX CH 10 242/62 RU	Antenna Pol.	:HORIZONTAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:MIMO / Config 2		



Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4914.00	Average	27.09	-0.56	26.53	54.00	-27.47
4914.00	Peak	39.94	-0.56	39.38	74.00	-34.62

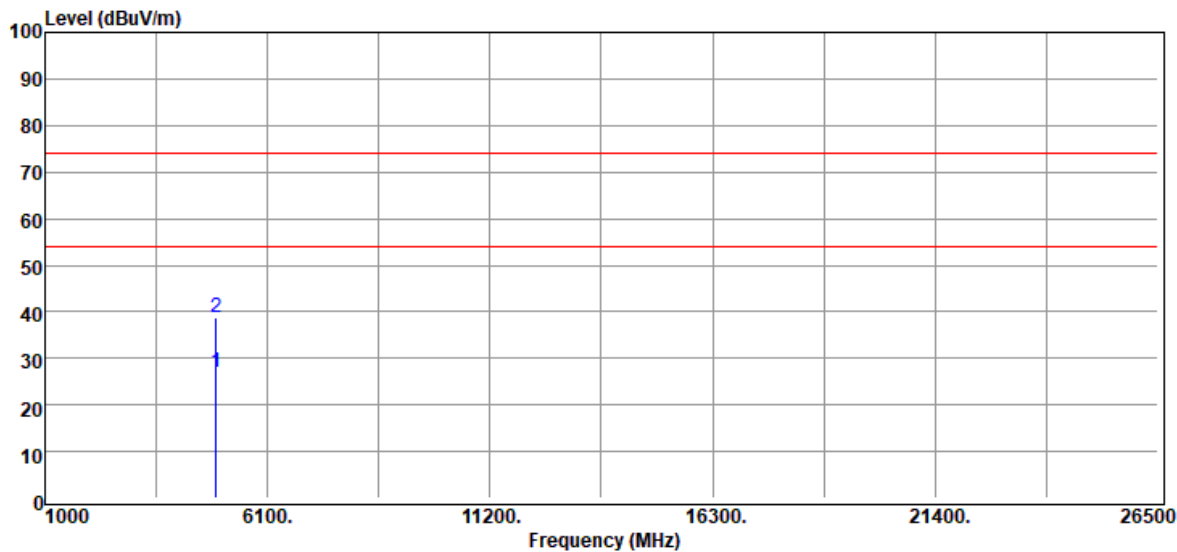
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Report Number :E2/2020/70036
Operation Mode :802.11ax40
Test Frequency :2462 MHz
Test Mode :TX CH 11 Full RU
EUT Pol :NB Plane
Ant Path / EUT :MIMO / Config 2

Test Site :966 Chamber D
Test Date :2020-07-31
Temp./Humi. :23.4/62
Antenna Pol. :VERTICAL
Engineer :Kailin



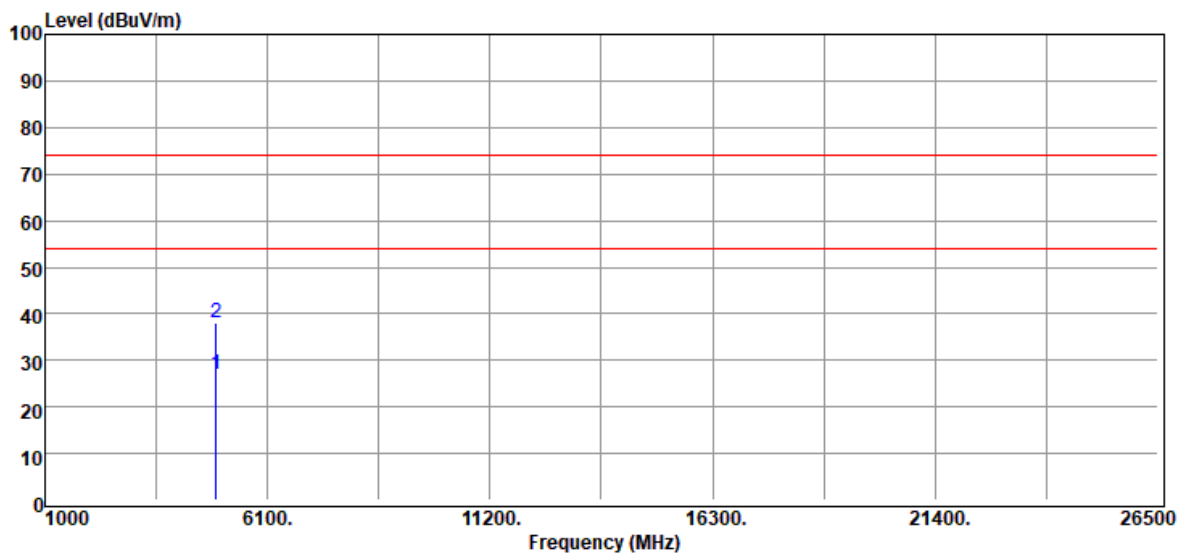
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	Average	27.69	-0.61	27.08	54.00	-26.92
4924.00	Peak	39.33	-0.61	38.72	74.00	-35.28

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Report Number	:E2/2020/70036	Test Site	:966 Chamber D
Operation Mode	:802.11ax40	Test Date	:2020-07-31
Test Frequency	:2462 MHz	Temp./Humi.	:23.4/62
Test Mode	:TX CH 11 Full RU	Antenna Pol.	:HORIZONTAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:MIMO / Config 2		



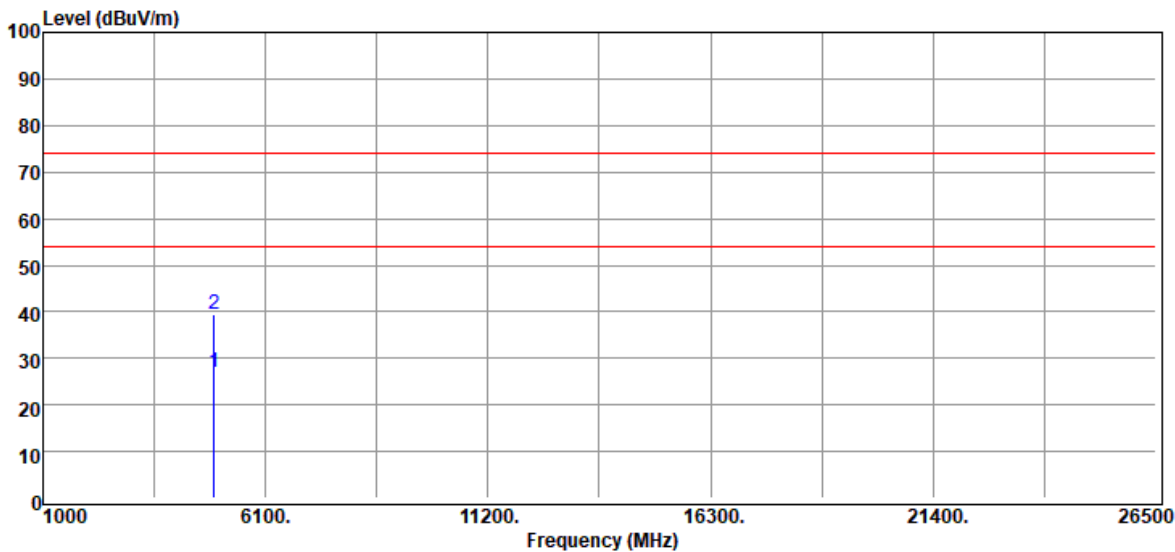
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
	PK/QP/AV	dBμV	dB	dBμV/m	dBμV/m	dB
4924.00	Average	27.56	-0.61	26.95	54.00	-27.05
4924.00	Peak	38.77	-0.61	38.16	74.00	-35.84

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Report Number	:E2/2020/70036	Test Site	:966 Chamber D
Operation Mode	:802.11ax40	Test Date	:2020-07-31
Test Frequency	:2462 MHz	Temp./Humi.	:23.4/62
Test Mode	:TX CH 11 242/62 RU	Antenna Pol.	:VERTICAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:MIMO / Config 2		



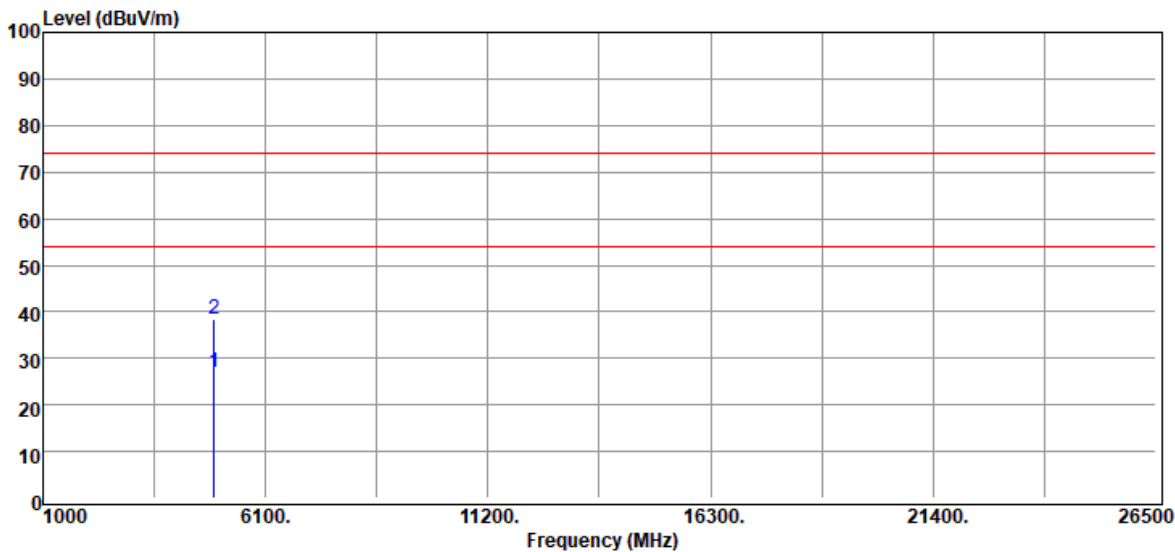
Freq.	Detector	Spectrum	Factor	Actual	Limit	Margin
MHz	Mode	Reading Level		FS	@3m	
MHz	PK/QP/AV	dBuV	dB	dBuV/m	dBuV/m	dB
4924.00	Average	27.69	-0.61	27.08	54.00	-26.92
4924.00	Peak	39.96	-0.61	39.35	74.00	-34.65

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Report Number	:E2/2020/70036	Test Site	:966 Chamber D
Operation Mode	:802.11ax40	Test Date	:2020-07-31
Test Frequency	:2462 MHz	Temp./Humi.	:23.4/62
Test Mode	:TX CH 11 242/62 RU	Antenna Pol.	:HORIZONTAL
EUT Pol	:NB Plane	Engineer	:Kailin
Ant Path / EUT	:MIMO / Config 2		



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	27.57	-0.61	26.96	54.00	-27.04
4924.00	Peak	38.89	-0.61	38.28	74.00	-35.72

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12 POWER SPECTRAL DENSITY

12.1 Standard Applicable

Per Part 15.247 (e)

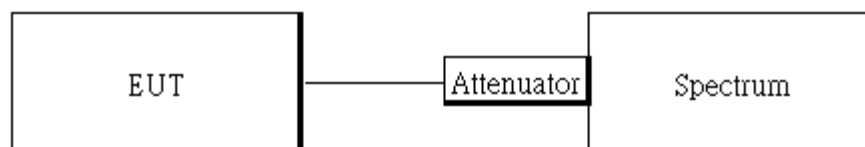
The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

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.
Spectrum Analyzer	KEYSIGHT	N9010A	MY53400256	11/20/2020	11/19/2021
Coaxial Cables	Woken	00100A1F1A 185C	RF219	11/19/2020	11/18/2021
I Pex4 Cables	Woken	00100A1H64 6027	RF508	06/01/2020	05/31/2021
Attenuator	Marvelous	WATT- 218FS-10	RF19	11/19/2020	11/18/2021
DC Block	PASTERNAK	PE8210	RF152	11/19/2020	11/18/2021

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.

12.5 As per FCC KDB 662911 D01

As per section F. 2). d). (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.

(ii) If all transmit signals are *completely uncorrelated*, then

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

where

N_{ANT} = the total number of antennas

G is the gain in dBi.

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

Mode: Chain 0

POWER DENSITY 802.11b			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-3.61	8.00	PASS
2437	-3.22	8.00	PASS
2442	-2.97	8.00	PASS
2462	-2.97	8.00	PASS
2467	-4.31	8.00	PASS
2472	-7.51	8.00	PASS
POWER DENSITY 802.11g			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-6.69	8.00	PASS
2437	-4.71	8.00	PASS
2442	-4.28	8.00	PASS
2462	-5.11	8.00	PASS
2467	-9.27	8.00	PASS
2472	-17.86	8.00	PASS
POWER DENSITY 802.11n HT20			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-6.62	8.00	PASS
2437	-4.60	8.00	PASS
2442	-4.42	8.00	PASS
2462	-7.94	8.00	PASS
2467	-10.35	8.00	PASS
2472	-17.54	8.00	PASS
POWER DENSITY 802.11n HT40			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-9.47	8.00	PASS
2437	-6.94	8.00	PASS
2442	-6.77	8.00	PASS
2452	-14.65	8.00	PASS
2457	-16.54	8.00	PASS
2462	-20.11	8.00	PASS

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POWER DENSITY 802.11ax HE20				
Freq. (MHz)	RU Config	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	full	-6.68	8.00	PASS
	26/0	1.52	8.00	PASS
	52/37	-0.15	8.00	PASS
	106/53	-3.34	8.00	PASS
2437	full	-5.11	8.00	PASS
2442	full	-5.21	8.00	PASS
2462	full	-11.13	8.00	PASS
2467	full	-11.81	8.00	PASS
2472	full	-19.05	8.00	PASS
	26/8	-9.98	8.00	PASS
	52/40	-10.57	8.00	PASS
	106/54	-12.29	8.00	PASS

POWER DENSITY 802.11ax HE40				
Freq. (MHz)	RU Config	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	full	-12.37	8.00	PASS
	242/61	-8.21	8.00	PASS
2437	full	-9.68	8.00	PASS
2437	full	-9.68	8.00	PASS
2442	full	-11.04	8.00	PASS
2457	full	-9.68	8.00	PASS
2462	full	-20.20	8.00	PASS
	242/62	-9.18	8.00	PASS

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Mode: Chain 1

POWER DENSITY 802.11b			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-2.98	8.00	PASS
2437	-3.12	8.00	PASS
2442	-3.55	8.00	PASS
2462	-3.22	8.00	PASS
2467	-4.76	8.00	PASS
2472	-7.42	8.00	PASS
POWER DENSITY 802.11g			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-4.55	8.00	PASS
2437	-4.43	8.00	PASS
2442	-2.95	8.00	PASS
2462	-6.82	8.00	PASS
2467	-9.64	8.00	PASS
2472	-15.37	8.00	PASS
POWER DENSITY 802.11n HT20			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	-6.25	8.00	PASS
2437	-4.65	8.00	PASS
2442	-5.00	8.00	PASS
2462	-7.13	8.00	PASS
2467	-11.10	8.00	PASS
2472	-16.83	8.00	PASS
POWER DENSITY 802.11n HT40			
Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	-9.91	8.00	PASS
2437	-7.08	8.00	PASS
2442	-7.72	8.00	PASS
2452	-13.80	8.00	PASS
2457	-18.06	8.00	PASS
2462	-21.45	8.00	PASS

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POWER DENSITY 802.11ax HE20				
Freq. (MHz)	RU Config	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	full	-8.06	8.00	PASS
	26/0	0.97	8.00	PASS
	52/37	-0.81	8.00	PASS
	106/53	-3.38	8.00	PASS
2437	full	-5.95	8.00	PASS
2442	full	-6.02	8.00	PASS
2462	full	-8.43	8.00	PASS
2467	full	-11.67	8.00	PASS
2472	full	-17.19	8.00	PASS
	26/8	-9.86	8.00	PASS
	52/40	-12.68	8.00	PASS
	106/54	-15.07	8.00	PASS

POWER DENSITY 802.11ax HE40				
Freq. (MHz)	RU Config	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	full	-12.69	8.00	PASS
	242/61	-7.26	8.00	PASS
2427	full	-9.07	8.00	PASS
2437	full	-8.28	8.00	PASS
2442	full	-8.30	8.00	PASS
2457	full	-18.11	8.00	PASS
2462	full	-20.04	8.00	PASS
	242/62	-14.80	8.00	PASS

Note

Cable Loss 11.90 dB

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Mode: MIMO

POWER DENSITY 802.11n HT20						
Freq. (MHz)	Ch1 PSD	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result	
2412	-7.57	-7.61	-4.58	8.00	PASS	
2437	-4.55	-5.40	-1.94	8.00	PASS	
2442	-4.552	-4.68	-1.61	8.00	PASS	
2462	-12.19	-11.75	-8.96	8.00	PASS	
2467	-11.38	-11.01	-8.18	8.00	PASS	
2472	-16.7	-16.76	-13.72	8.00	PASS	
POWER DENSITY 802.11n HT40						
Freq. (MHz)	Ch1 PSD	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result	
2422	-13.78	-13.04	-10.39	8.00	PASS	
2437	-7.54	-7.20	-4.35	8.00	PASS	
2442	-7.39	-8.95	-5.09	8.00	PASS	
2452	-11.98	-13.62	-9.72	8.00	PASS	
2457	-17.2	-17.68	-14.42	8.00	PASS	
2462	-19.91	-20.77	-17.31	8.00	PASS	
POWER DENSITY 802.11ax HE20						
Freq. (MHz)	RU Config	Ch1 PSD	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412	full	-11.51	-10.99	-8.23	8.00	PASS
	26/0	-0.2	-0.034	2.89	8.00	PASS
	52/37	-1.53	-3.21	0.72	8.00	PASS
	106/53	-5.271	-5.59	-2.42	8.00	PASS
2437	full	-5.536	-5.757	-2.63	8.00	PASS
2442	full	-5.373	-3.387	-1.26	8.00	PASS
2462	full	-10.98	-9.629	-7.24	8.00	PASS
2467	full	-17	-17.11	-14.05	8.00	PASS
2472	full	-18.95	-19.38	-16.15	8.00	PASS
	26/8	-9.102	-8.823	-5.95	8.00	PASS
	52/40	-10.67	-10.45	-7.55	8.00	PASS
	106/54	-13.69	-14.54	-11.08	8.00	PASS

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POWER DENSITY 802.11ax HE40						
Freq. (MHz)	RU Config	Ch1 PSD	Ch0 PSD	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422	full	-14.03	-15.26	-11.59	8.00	PASS
	242/61	-7.257	-8.01	-4.61	8.00	PASS
2437	full	-7.48	-6.902	-4.17	8.00	PASS
2442	full	-8.602	-9.908	-6.20	8.00	PASS
2452	full	-15.69	-16.04	-12.85	8.00	PASS
2457	full	-19.10	-19.48	-16.27	8.00	PASS
2462	full	-19.56	-20.49	-16.99	8.00	PASS
	242/62	-16.47	-17.55	-13.97	8.00	PASS

Note

Cable Loss 11.90 dB

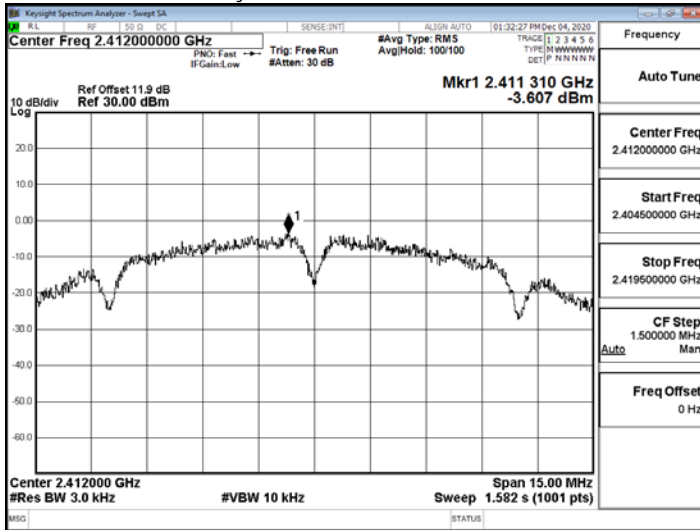
*Refer to next page for plots

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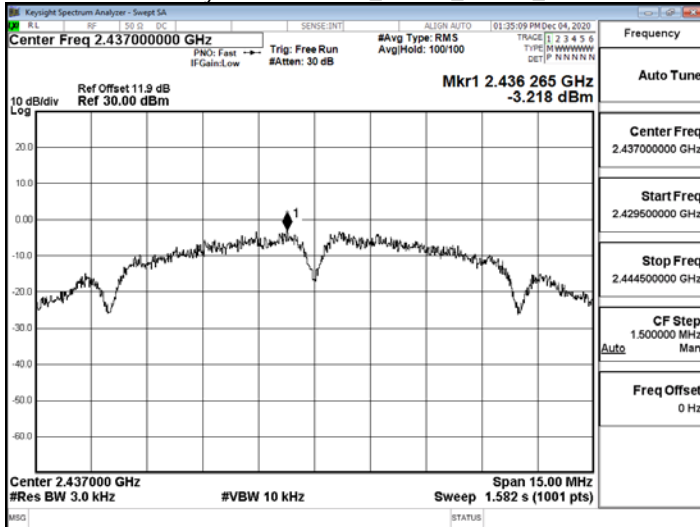
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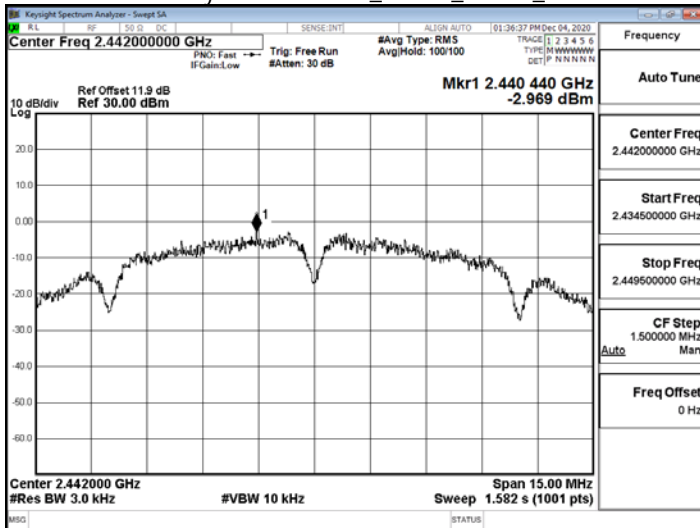
Ch0 Power Density\WLAN\802.11b_20MHz_Chain0_2412MHz



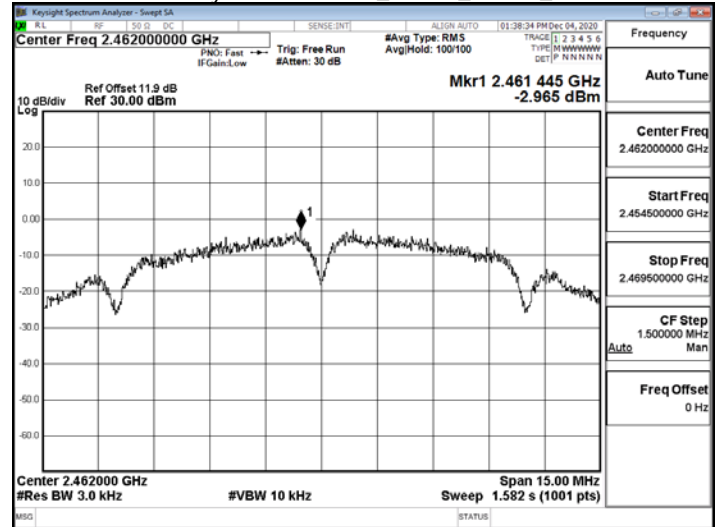
Power Density\WLAN\802.11b_20MHz_Chain0_2437MHz



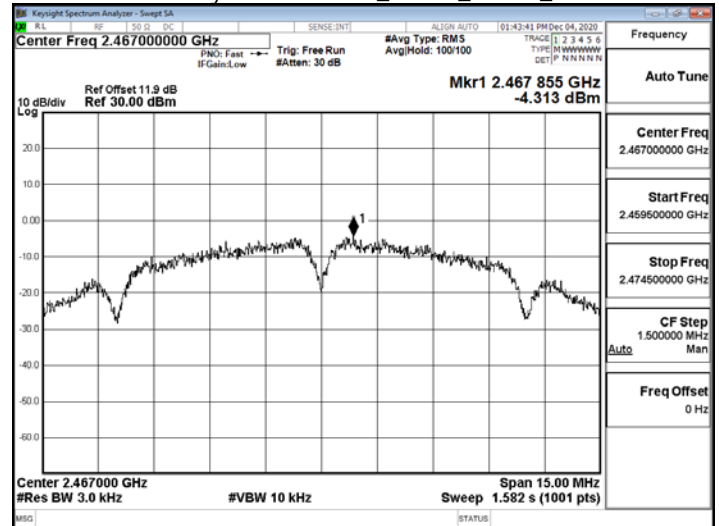
Power Density\WLAN\802.11b_20MHz_Chain0_2442MHz



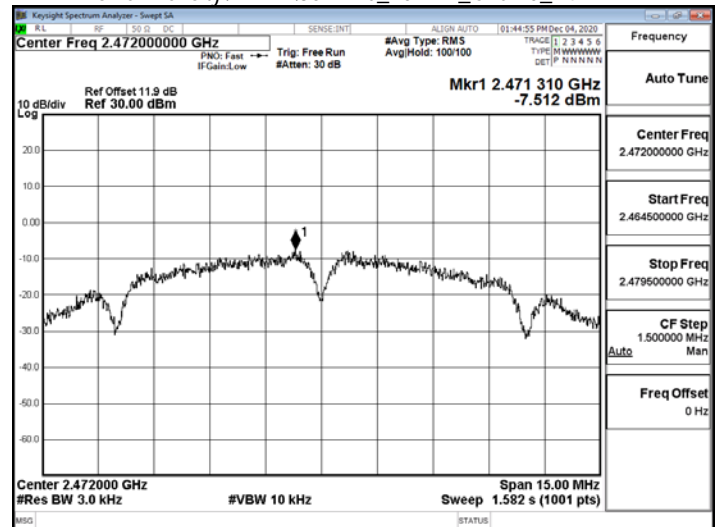
Power Density\WLAN\802.11b_20MHz_Chain0_2462MHz



Power Density\WLAN\802.11b_20MHz_Chain0_2467MHz



Power Density\WLAN\802.11b_20MHz_Chain0_2472MHz

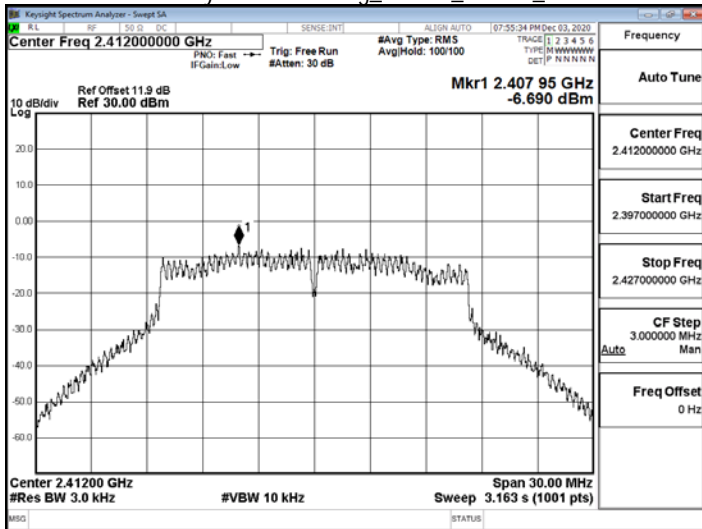


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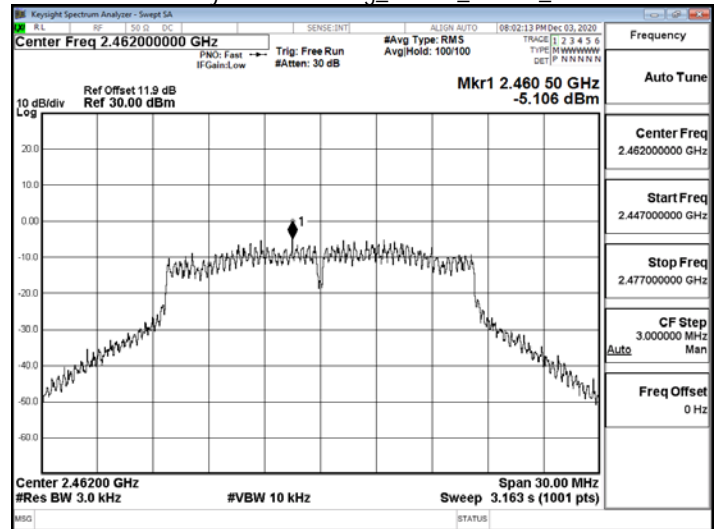
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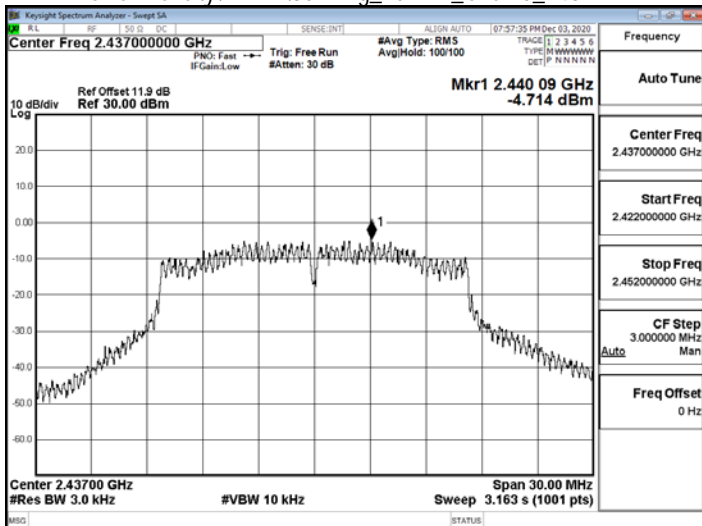
Power DensityWLAN\802.11g_20MHz_Chain0_2412MHz



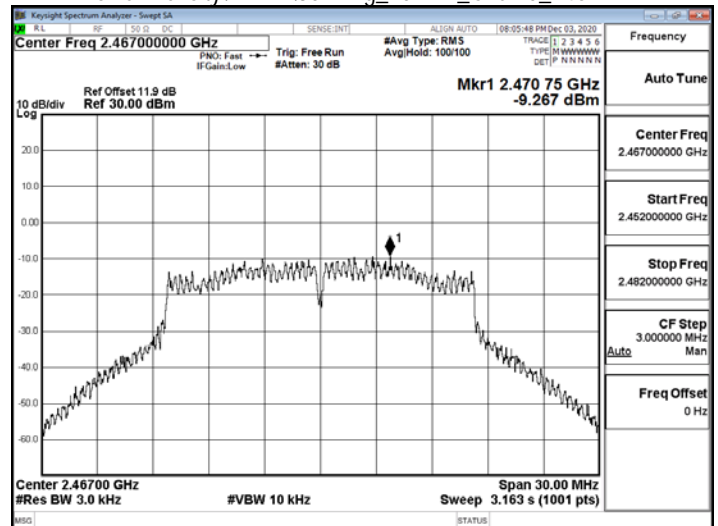
Power DensityWLAN\802.11g_20MHz_Chain0_2462MHz



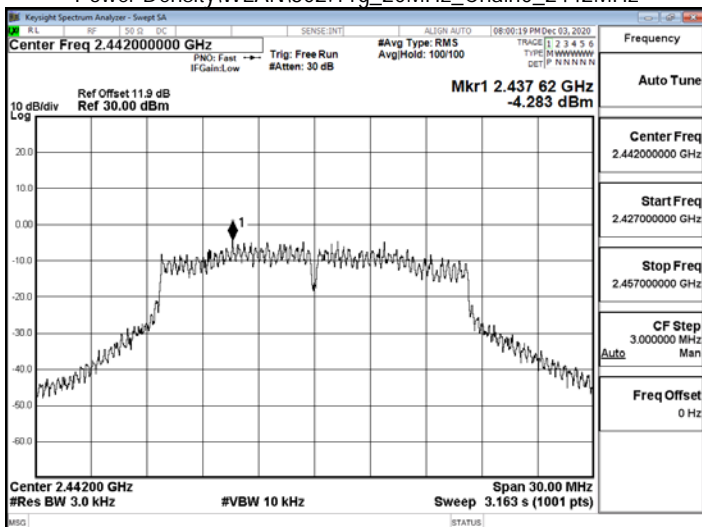
Power DensityWLAN\802.11g_20MHz_Chain0_2437MHz



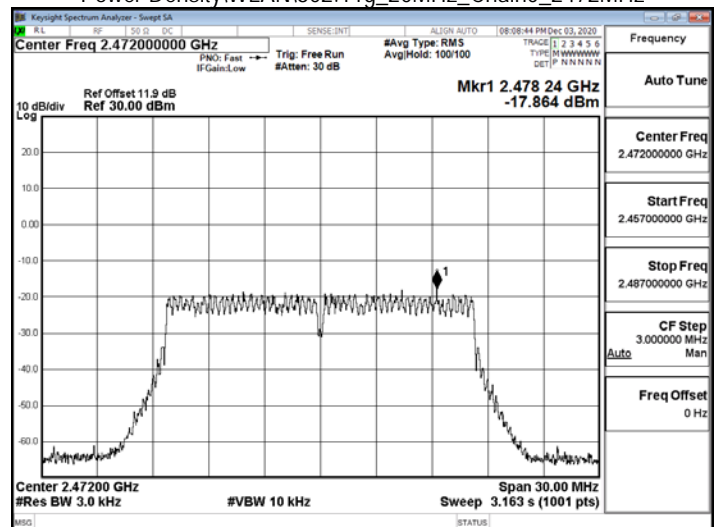
Power DensityWLAN\802.11g_20MHz_Chain0_2467MHz



Power DensityWLAN\802.11g_20MHz_Chain0_2442MHz



Power DensityWLAN\802.11g_20MHz_Chain0_2472MHz

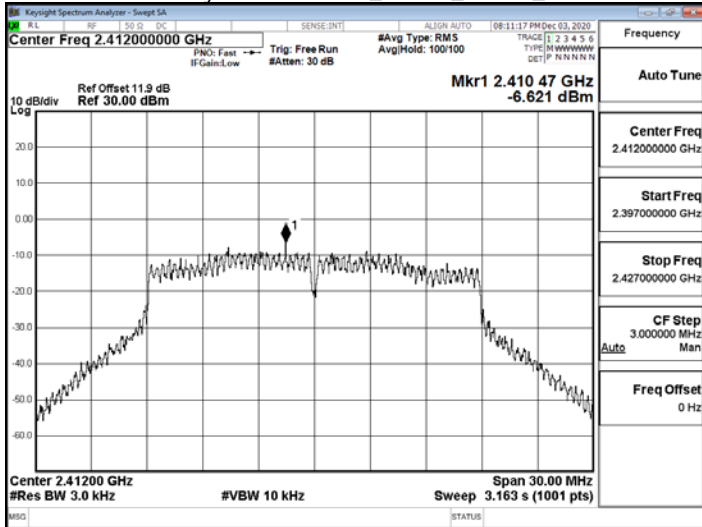


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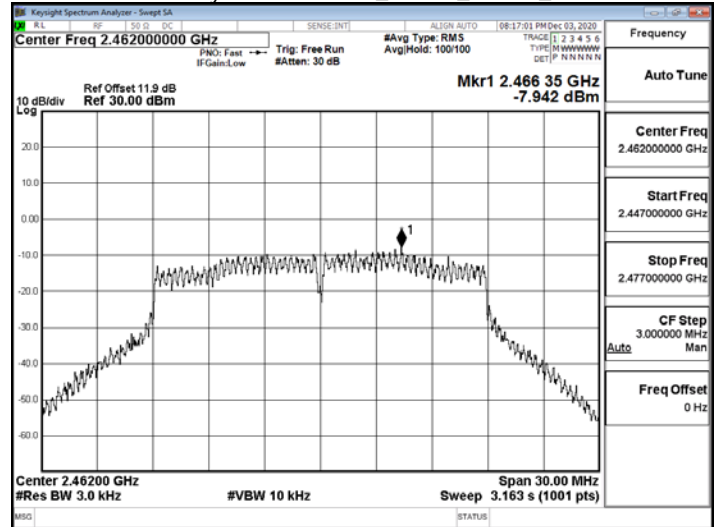
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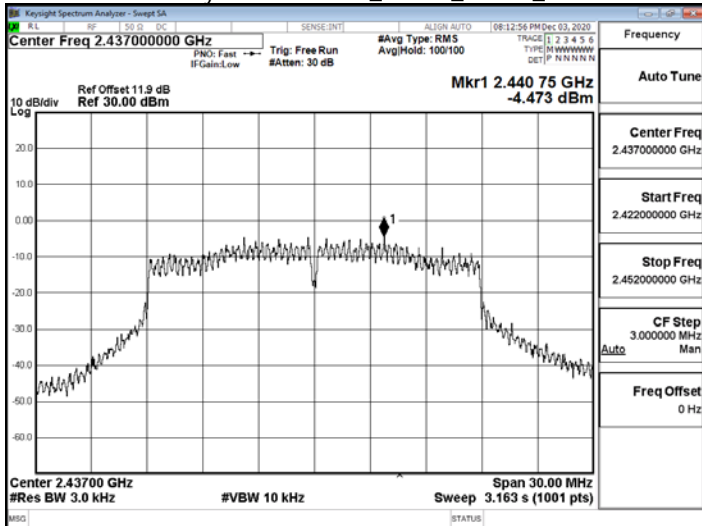
Power DensityWLAN\802.11n_20MHz_Chain0_2412MHz



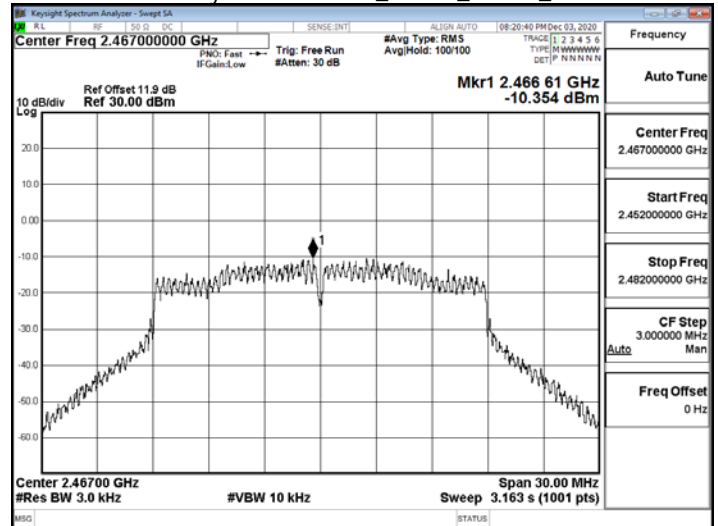
Power DensityWLAN\802.11n_20MHz_Chain0_2462MHz



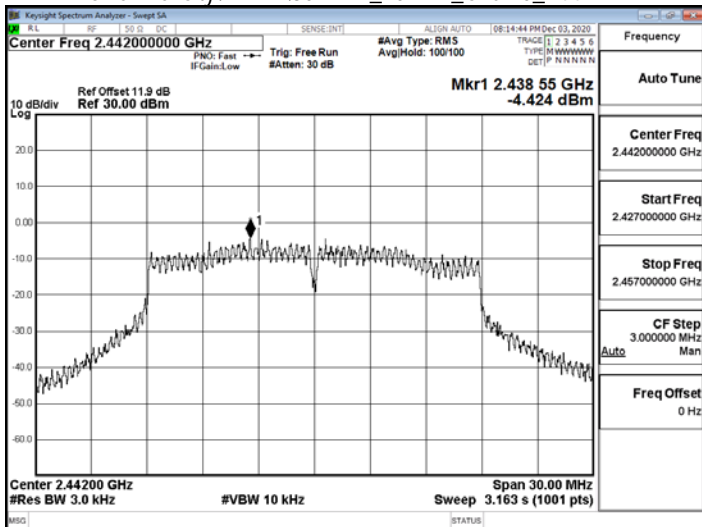
Power DensityWLAN\802.11n_20MHz_Chain0_2437MHz



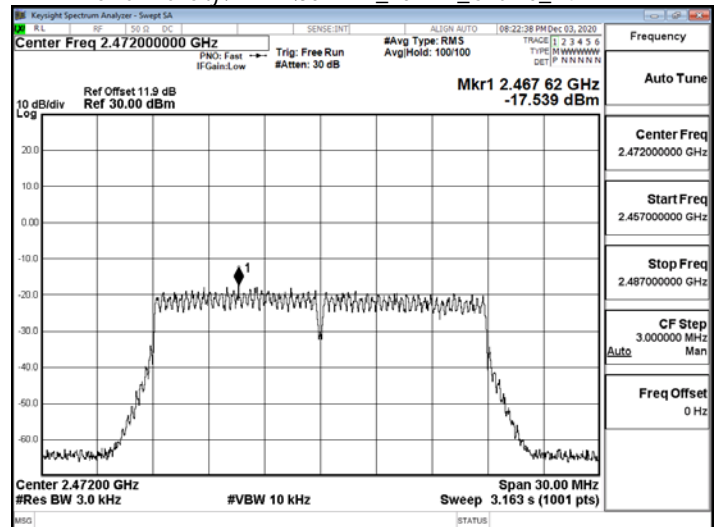
Power DensityWLAN\802.11n_20MHz_Chain0_2467MHz



Power DensityWLAN\802.11n_20MHz_Chain0_2442MHz



Power DensityWLAN\802.11n_20MHz_Chain0_2472MHz

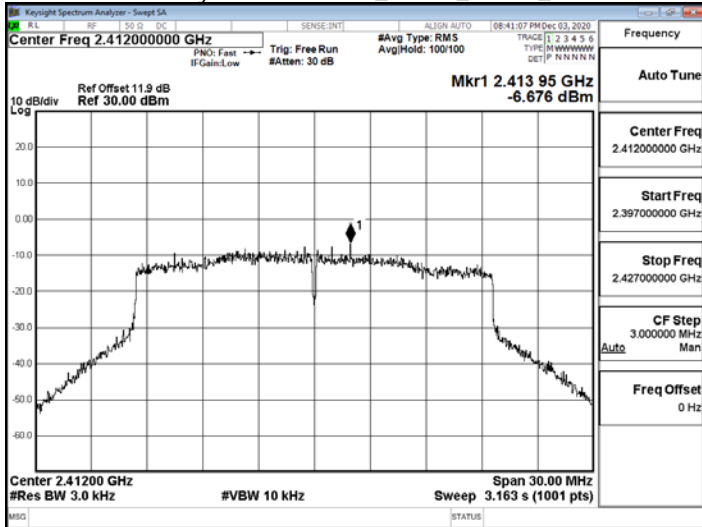


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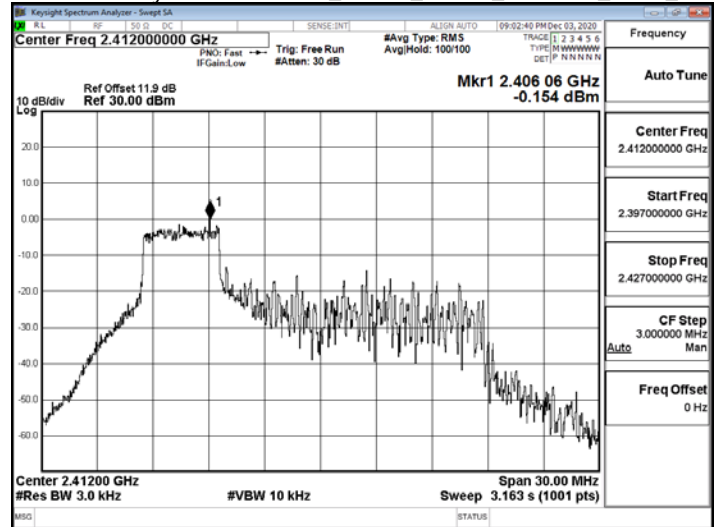
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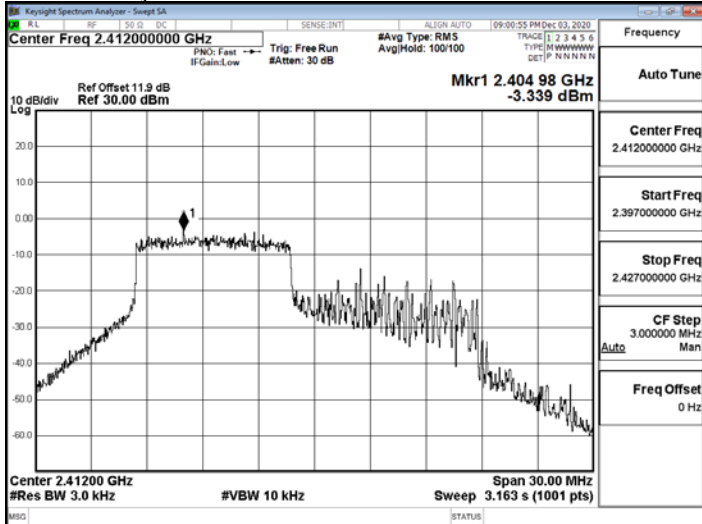
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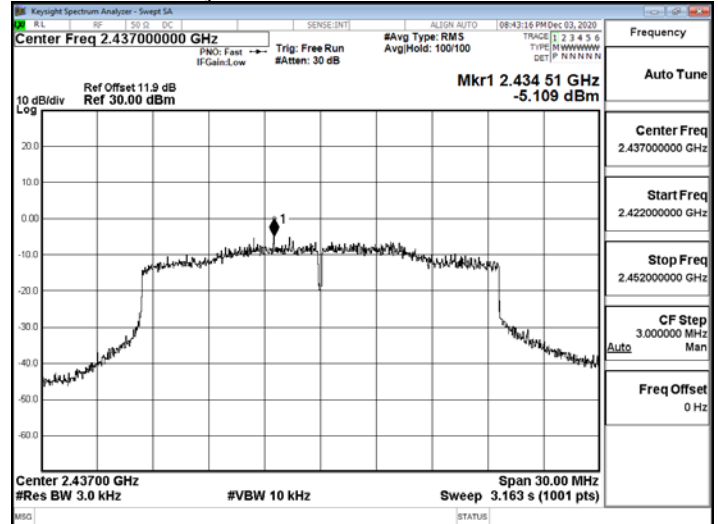
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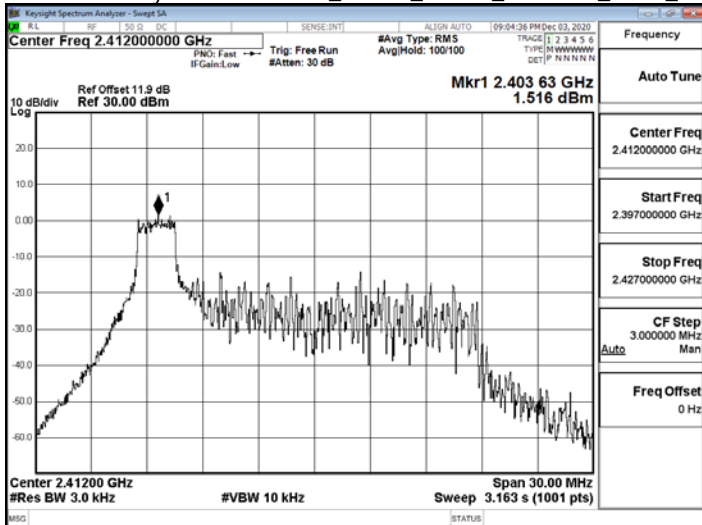
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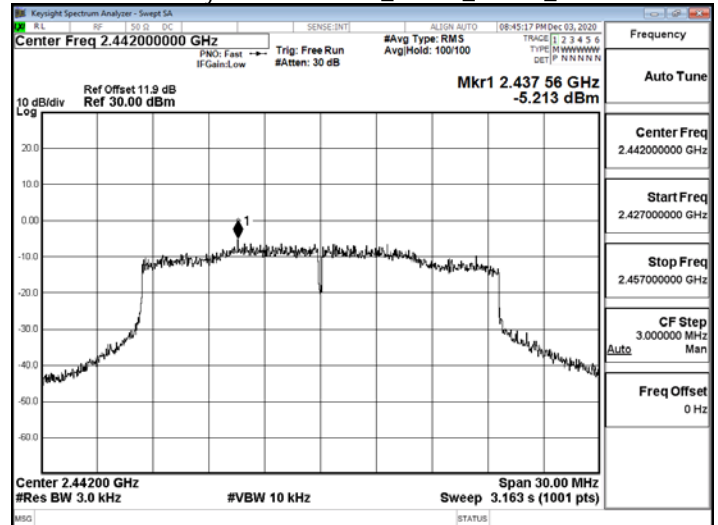
Power Density\WLAN\802.11ax_20MHz_Chain0_2437MHz



Power Density\WLAN\802.11ax_20MHz_Chain0_2412MHz_RU26_0



Power Density\WLAN\802.11ax_20MHz_Chain0_2442MHz

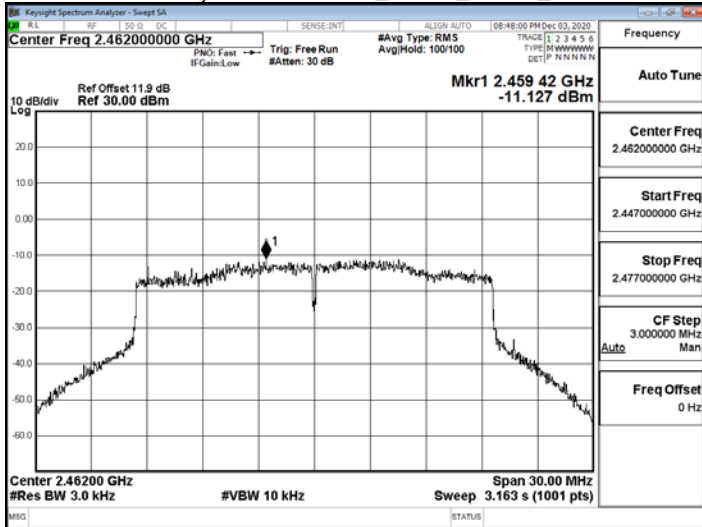


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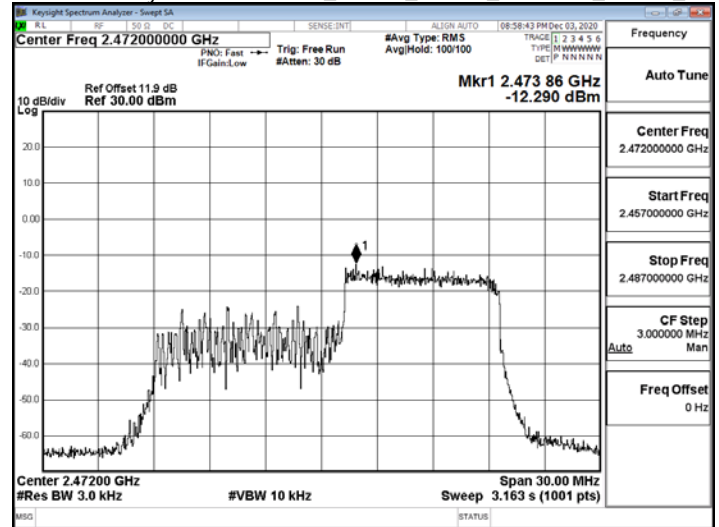
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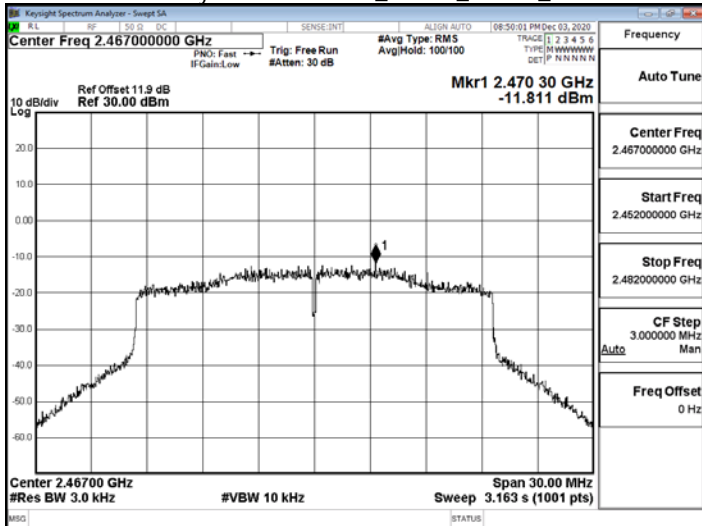
Power Density\WLAN\802.11ax_20MHz_Chain0_2462MHz



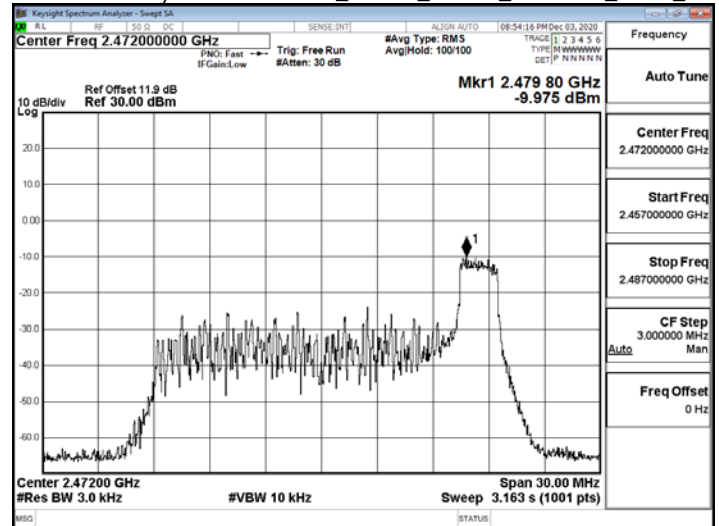
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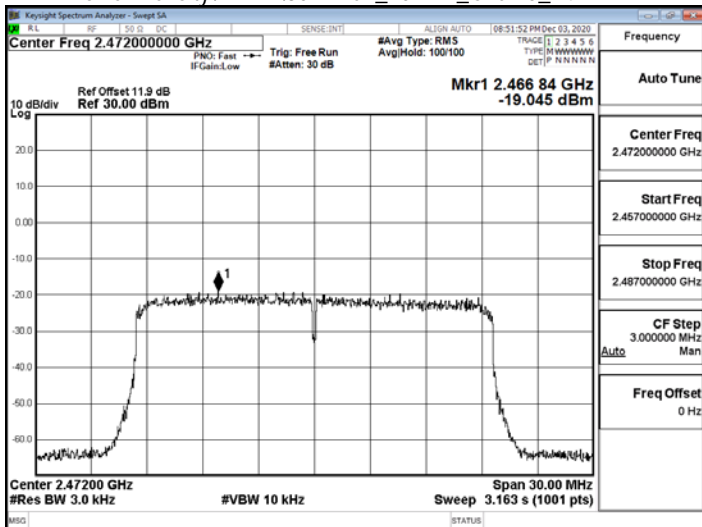
Power Density\WLAN\802.11ax_20MHz_Chain0_2467MHz



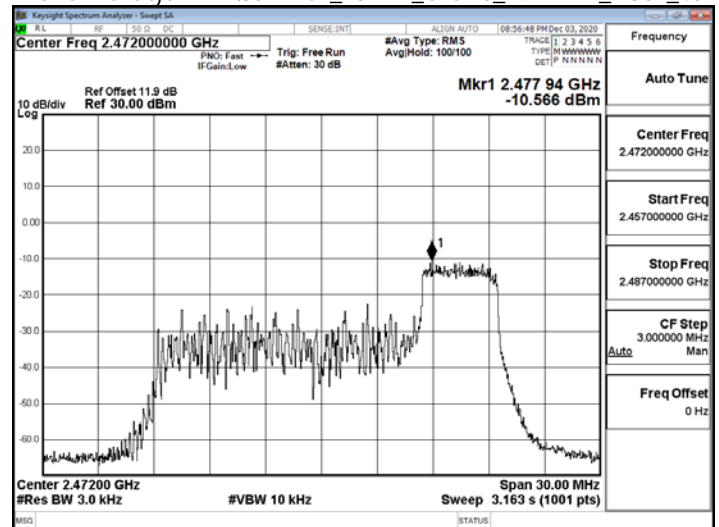
Power Density\WLAN\802.11ax_20MHz_Chain0_2472MHz_RU26_8



Power Density\WLAN\802.11ax_20MHz_Chain0_2472MHz



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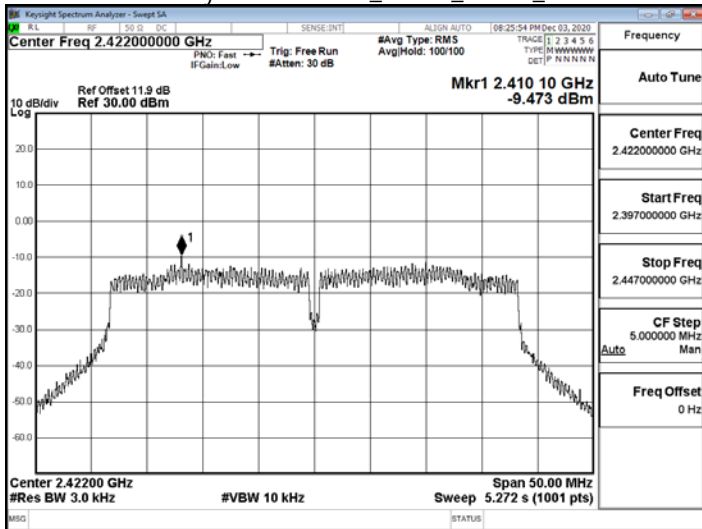


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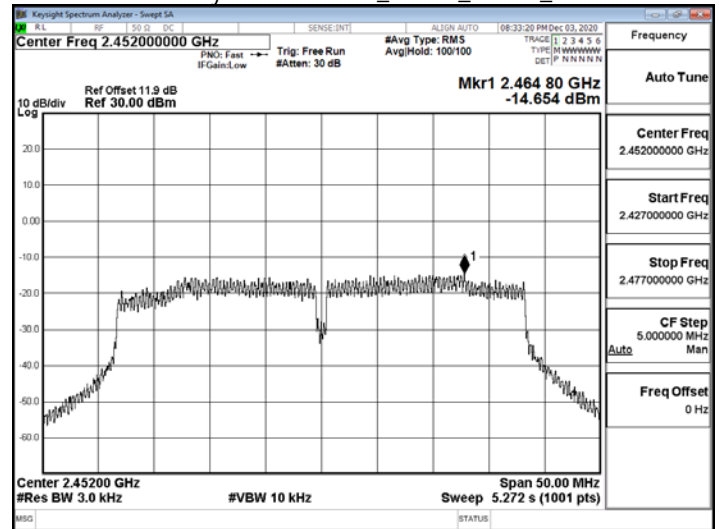
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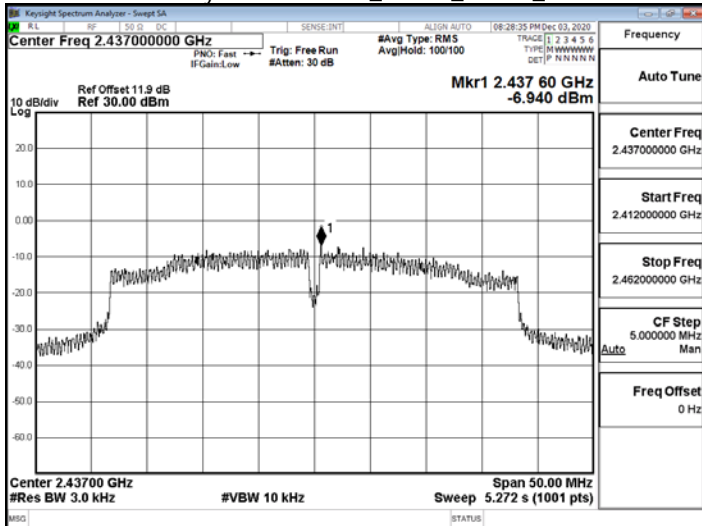
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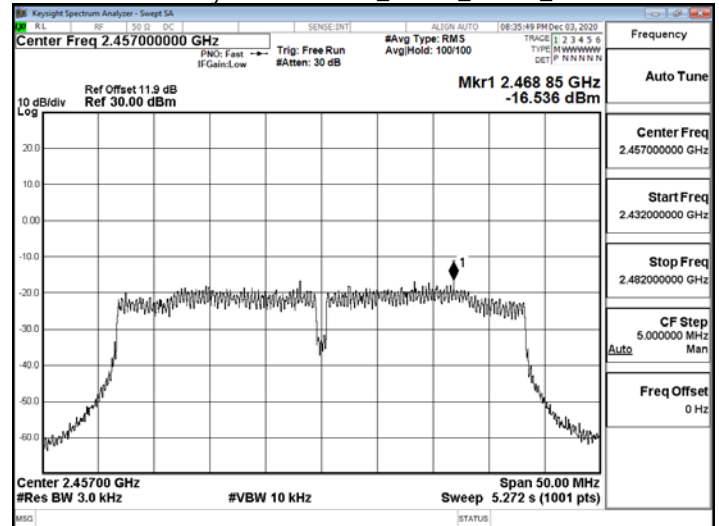
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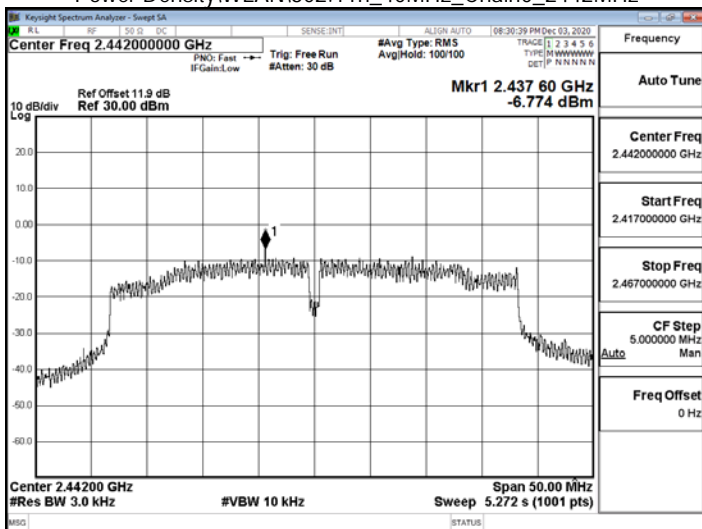
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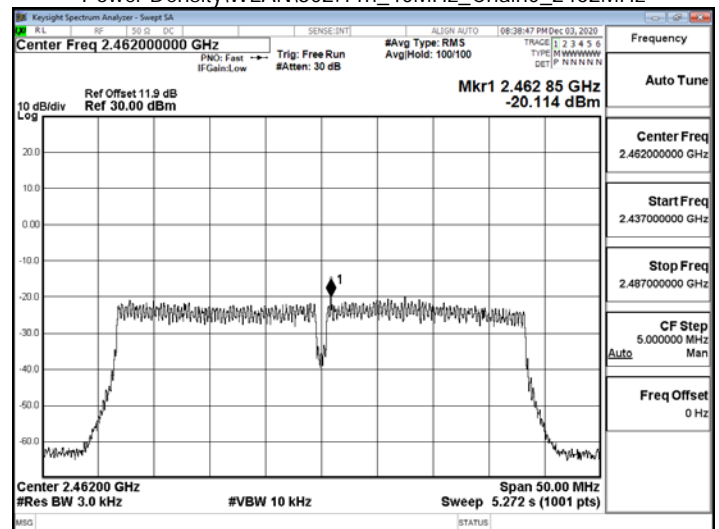
Power DensityWLAN\802.11n_40MHz_Chain0_2457MHz



Power DensityWLAN\802.11n_40MHz_Chain0_2442MHz



Power DensityWLAN\802.11n_40MHz_Chain0_2462MHz

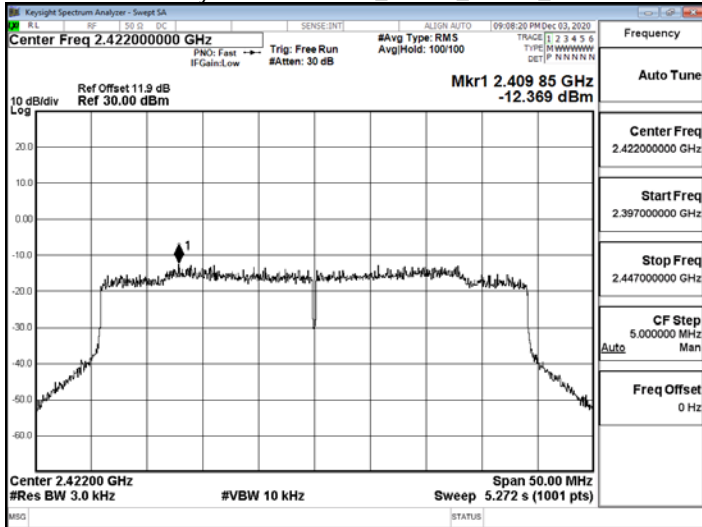


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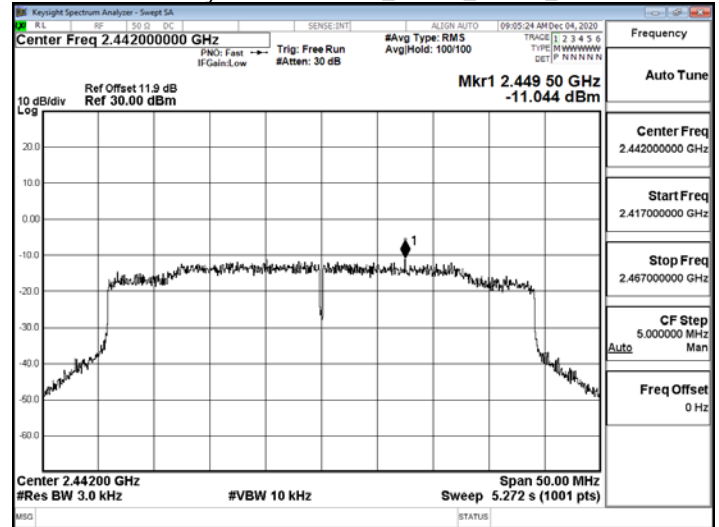
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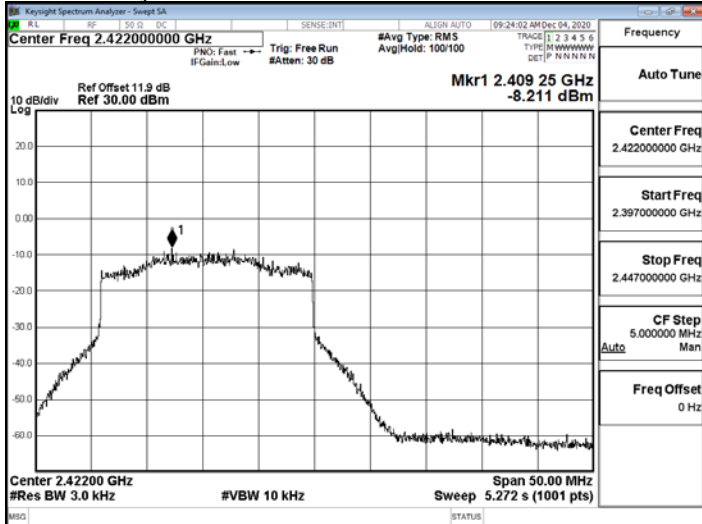
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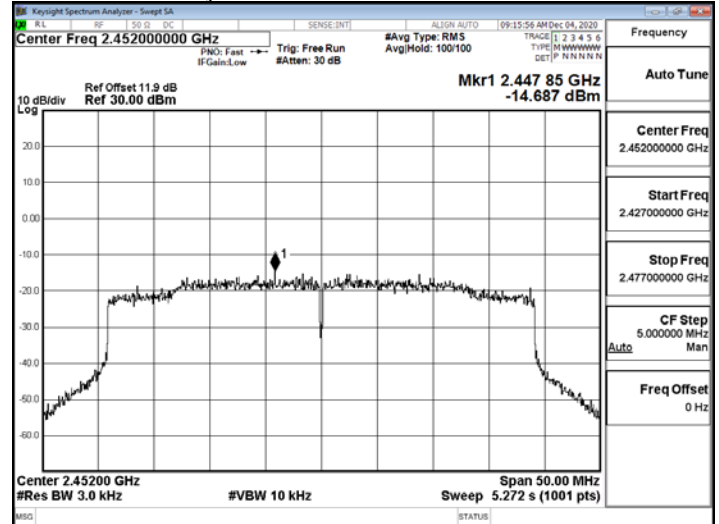
Power Density\WLAN\802.11ax_40MHz_Chain0_2442MHz



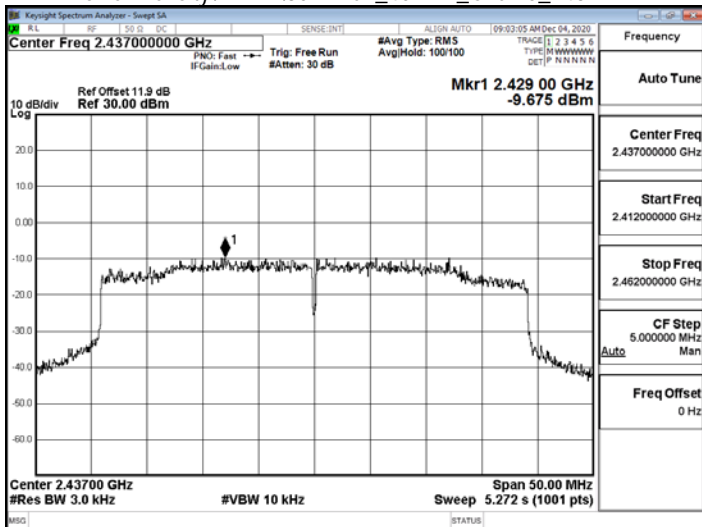
Power Density\WLAN\802.11ax_40MHz_Chain0_2422MHz_RU242_61



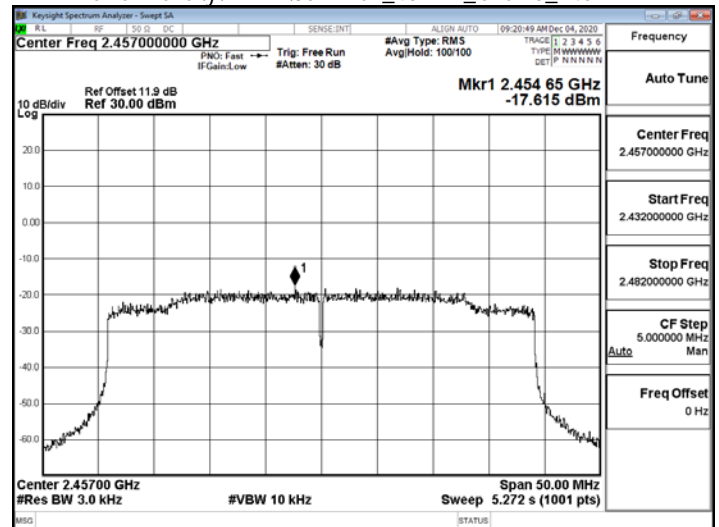
Power Density\WLAN\802.11ax_40MHz_Chain0_2452MHz



Power Density\WLAN\802.11ax_40MHz_Chain0_2437MHz



Power Density\WLAN\802.11ax_40MHz_Chain0_2457MHz

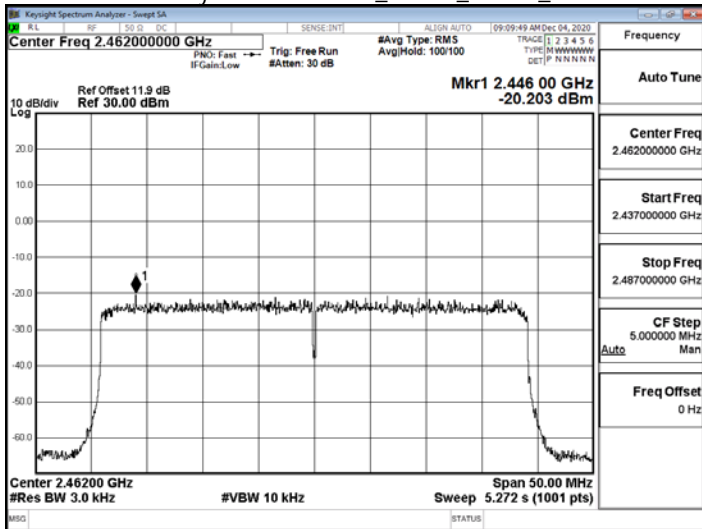


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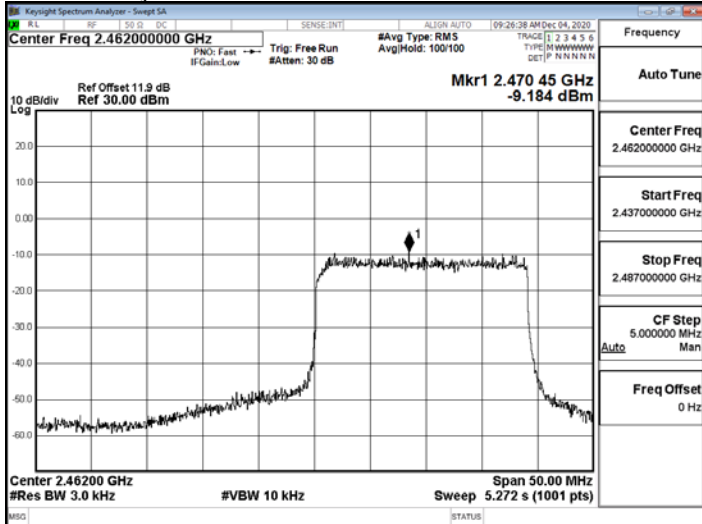
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Power DensityWLAN802.11ax_40MHz_Chain0_2462MHz



Power DensityWLAN802.11ax_40MHz_Chain0_2462MHz_RU242_62

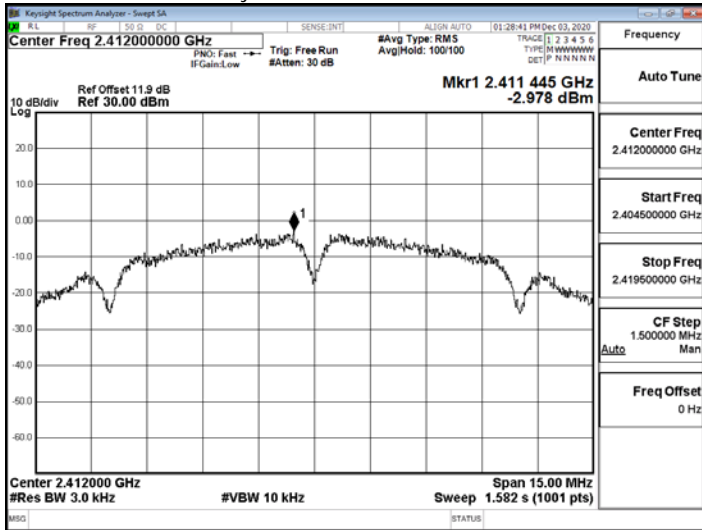


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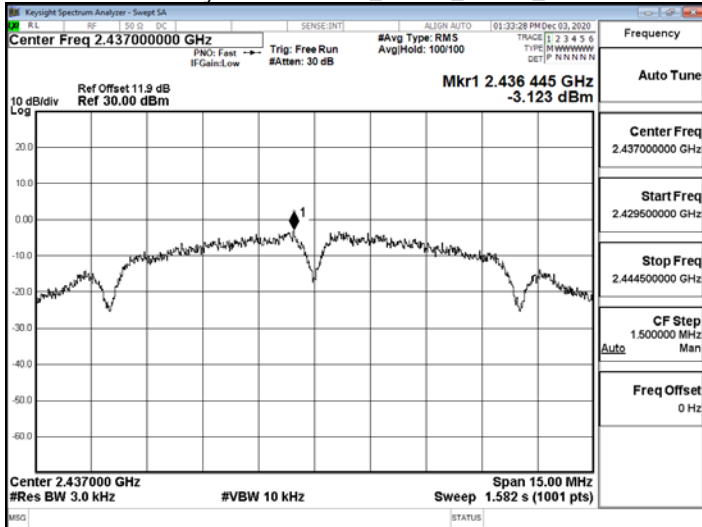
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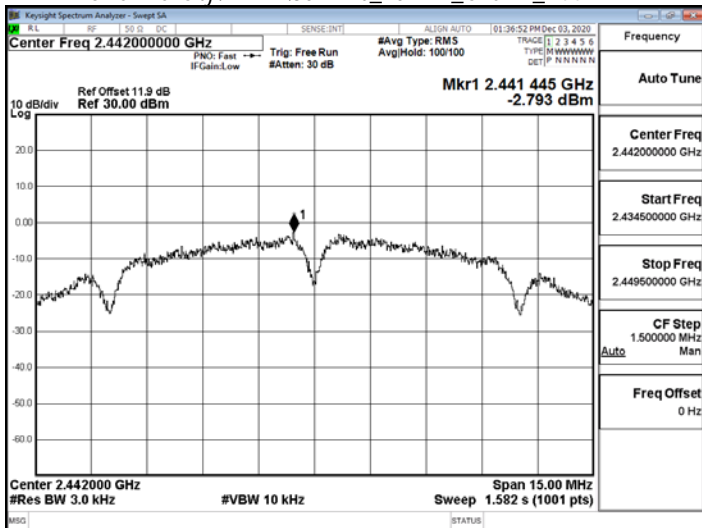
Ch 1 Power Density\WLAN\802.11b_20MHz_Chain1_2412MHz



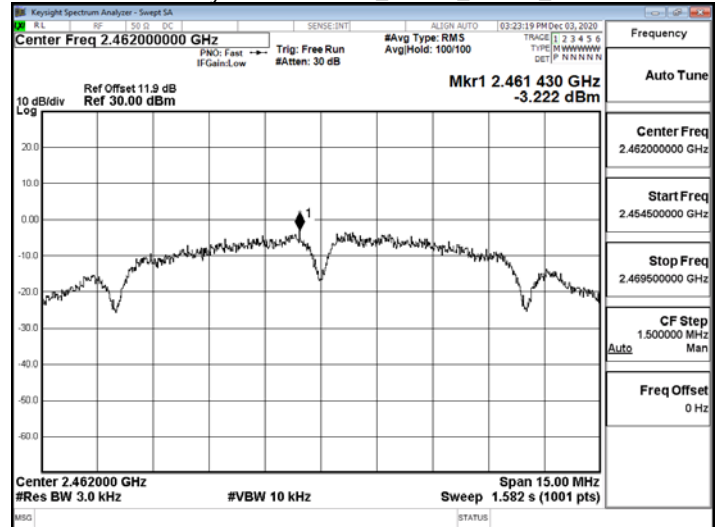
Power Density\WLAN\802.11b_20MHz_Chain1_2437MHz



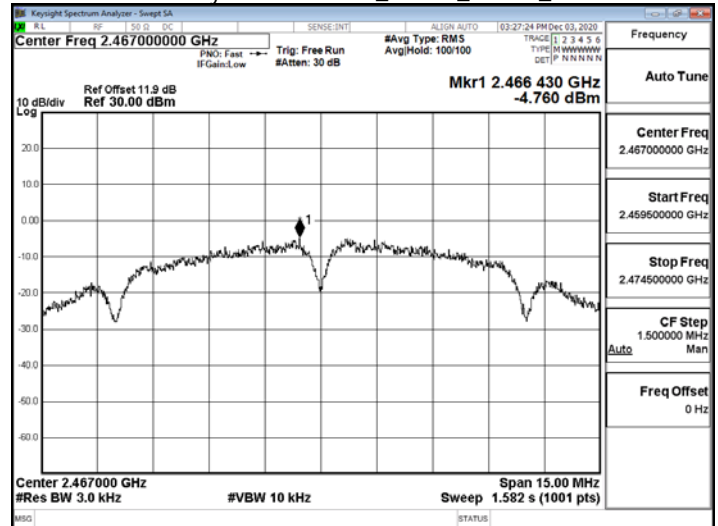
Power Density\WLAN\802.11b_20MHz_Chain1_2442MHz



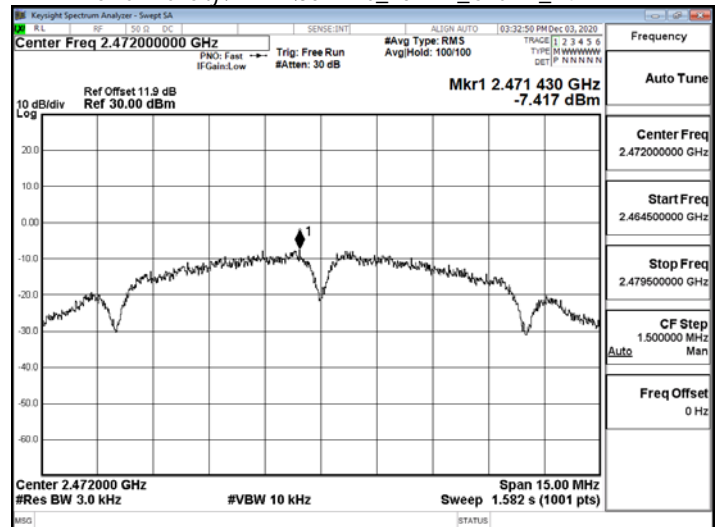
Power Density\WLAN\802.11b_20MHz_Chain1_2462MHz



Power Density\WLAN\802.11b_20MHz_Chain1_2467MHz



Power Density\WLAN\802.11b_20MHz_Chain1_2472MHz

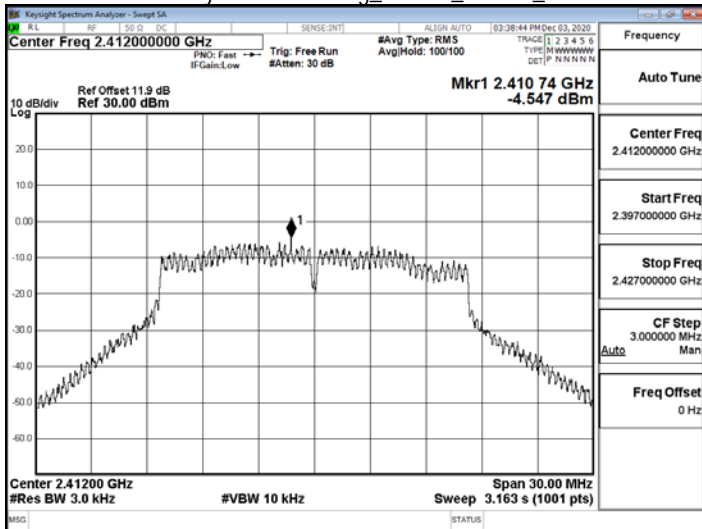


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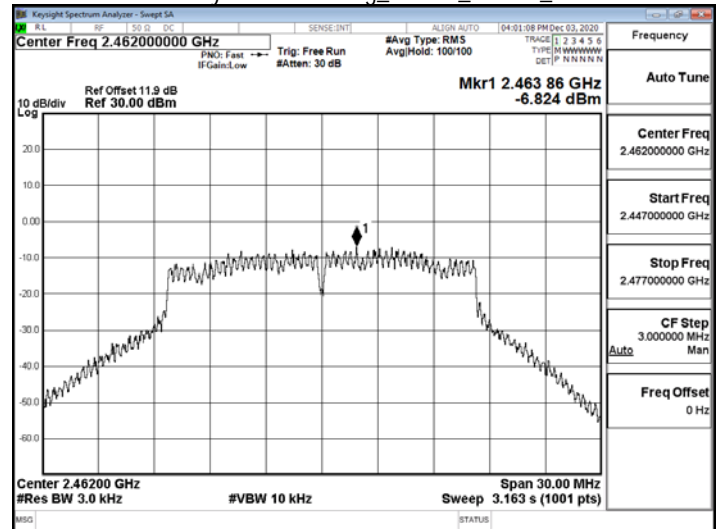
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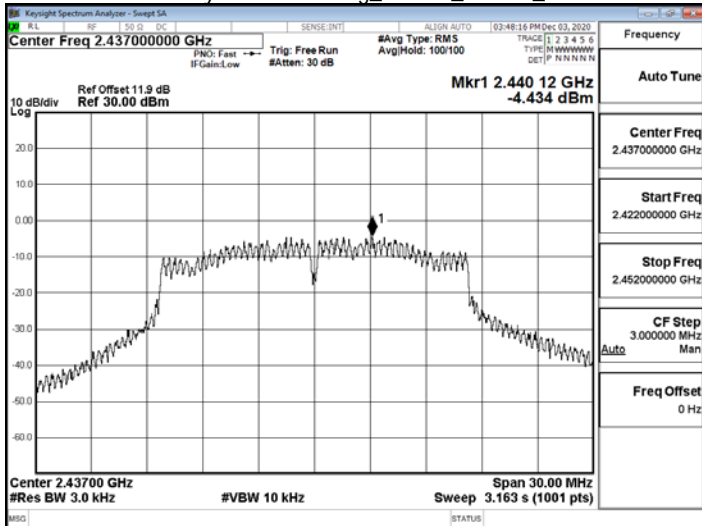
Power DensityWLAN\802.11g_20MHz_Chain1_2412MHz



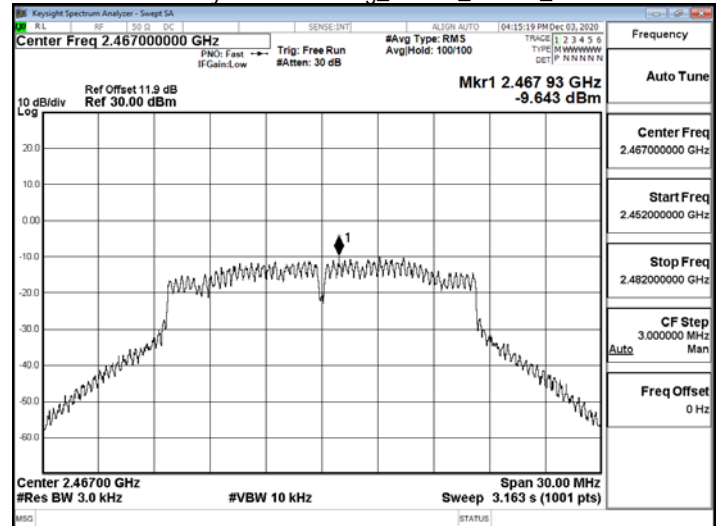
Power DensityWLAN\802.11g_20MHz_Chain1_2462MHz



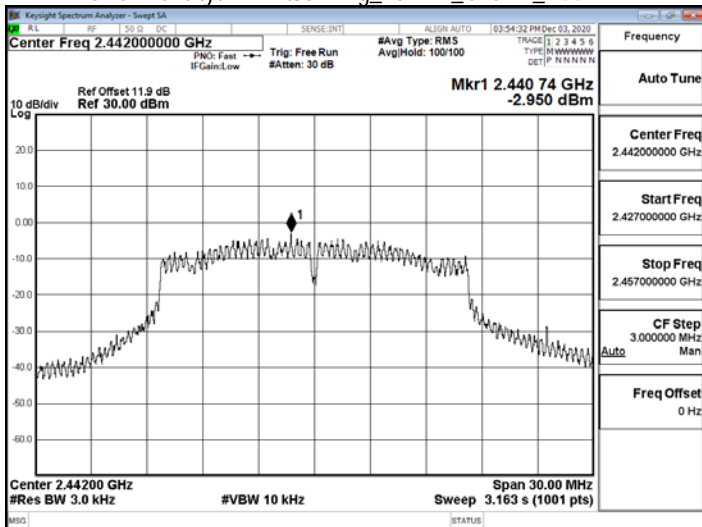
Power DensityWLAN\802.11g_20MHz_Chain1_2437MHz



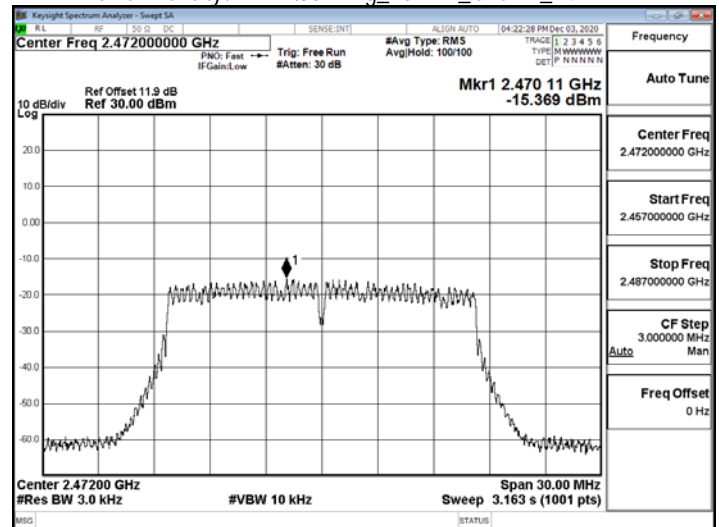
Power DensityWLAN\802.11g_20MHz_Chain1_2467MHz



Power DensityWLAN\802.11g_20MHz_Chain1_2442MHz



Power DensityWLAN\802.11g_20MHz_Chain1_2472MHz

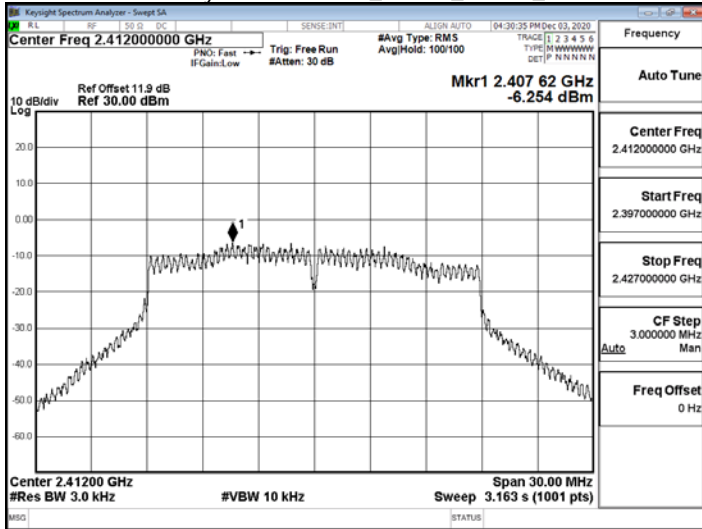


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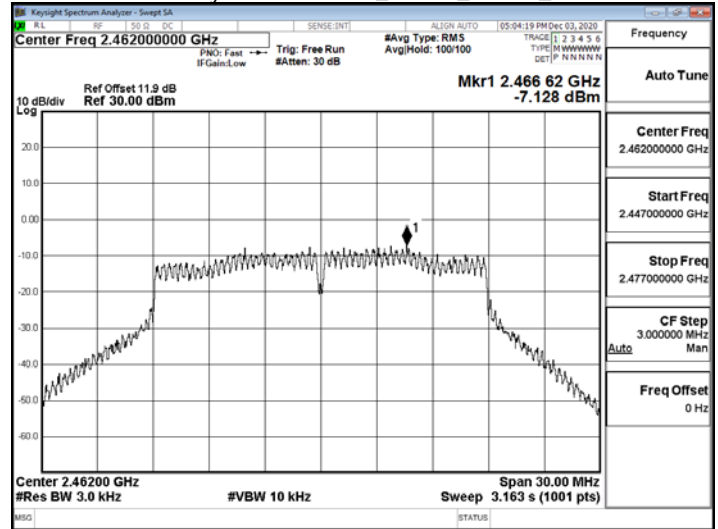
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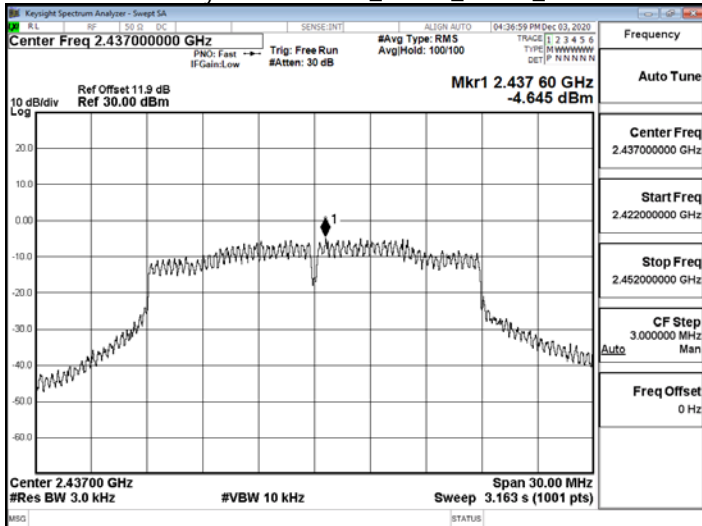
Power DensityWLAN\802.11n_20MHz_Chain1_2412MHz



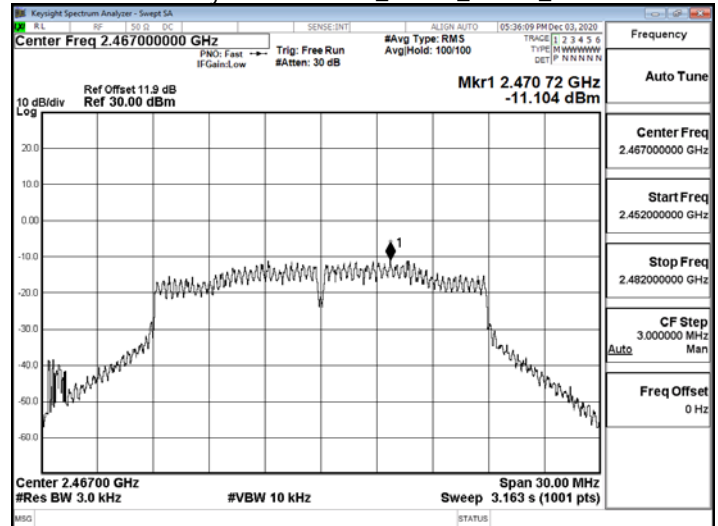
Power DensityWLAN\802.11n_20MHz_Chain1_2462MHz



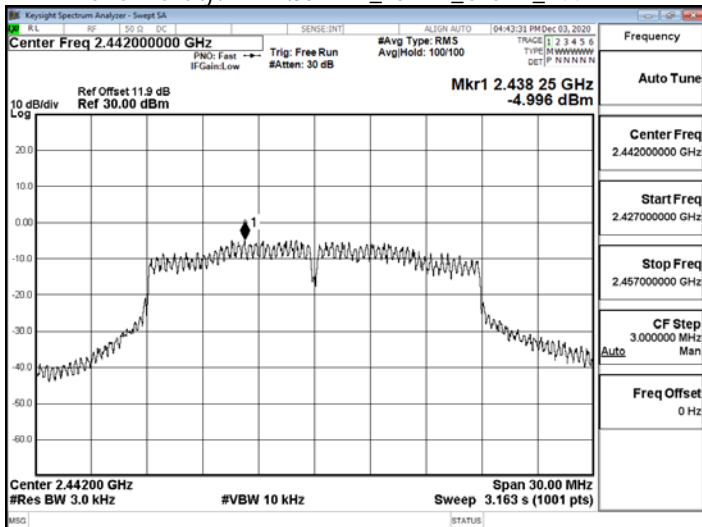
Power DensityWLAN\802.11n_20MHz_Chain1_2437MHz



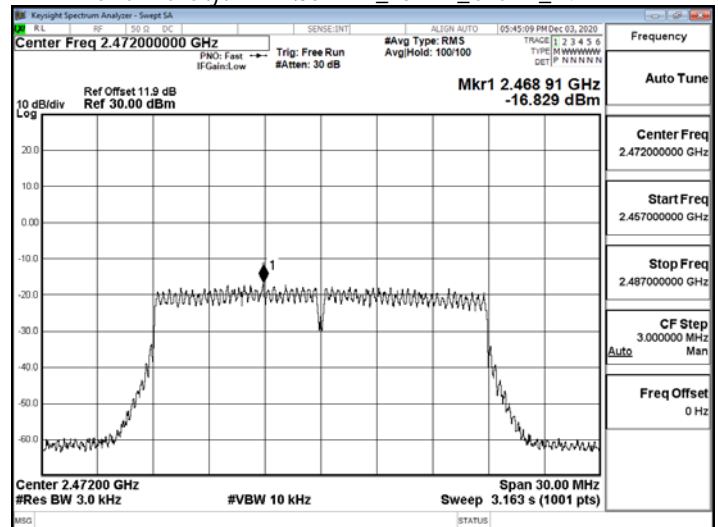
Power DensityWLAN\802.11n_20MHz_Chain1_2467MHz



Power DensityWLAN\802.11n_20MHz_Chain1_2442MHz



Power DensityWLAN\802.11n_20MHz_Chain1_2472MHz

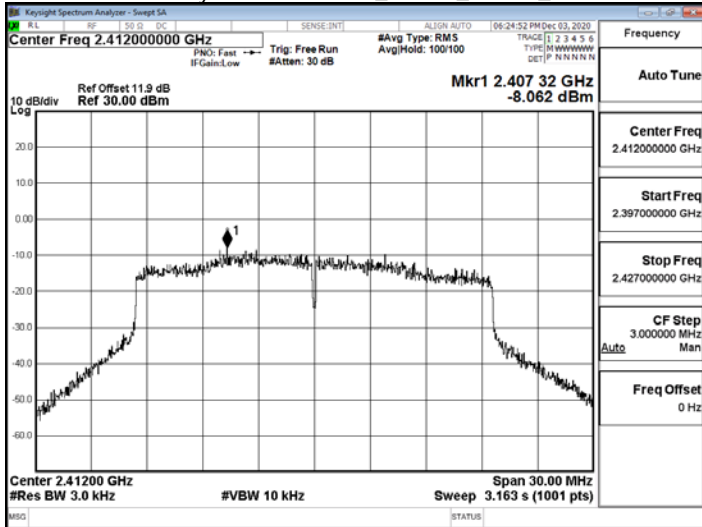


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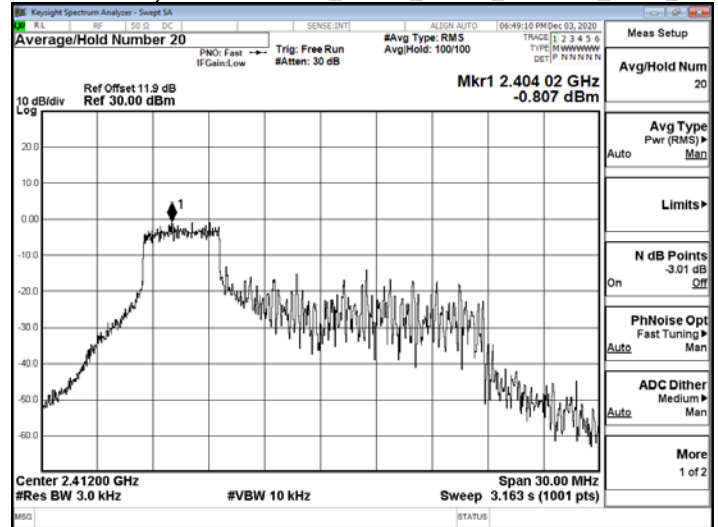
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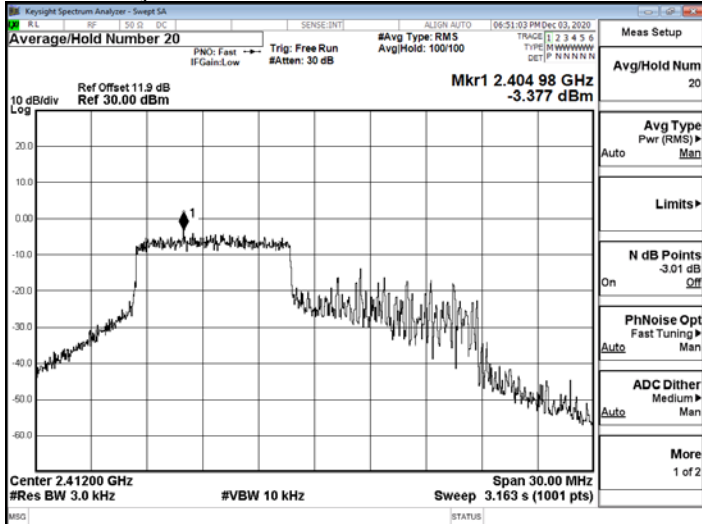
Power Density\WLAN\802.11ax_20MHz_Chain1_2412MHz



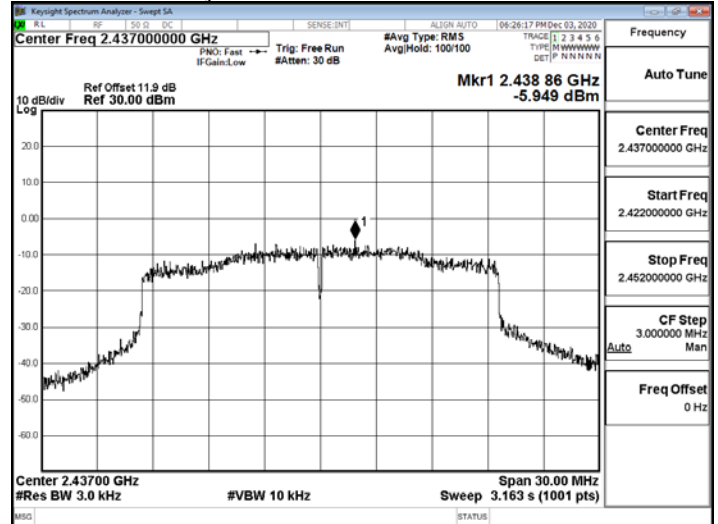
Power Density\WLAN\802.11ax_20MHz_Chain1_2412MHz_RU52_37



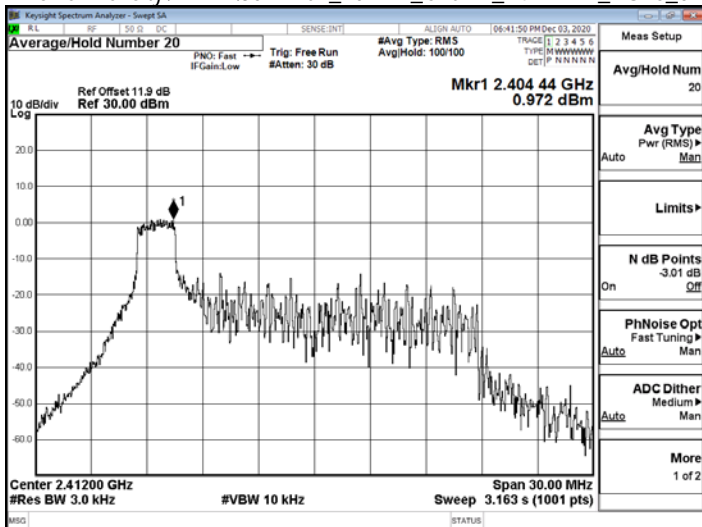
Power Density\WLAN\802.11ax_20MHz_Chain1_2412MHz_RU106_53



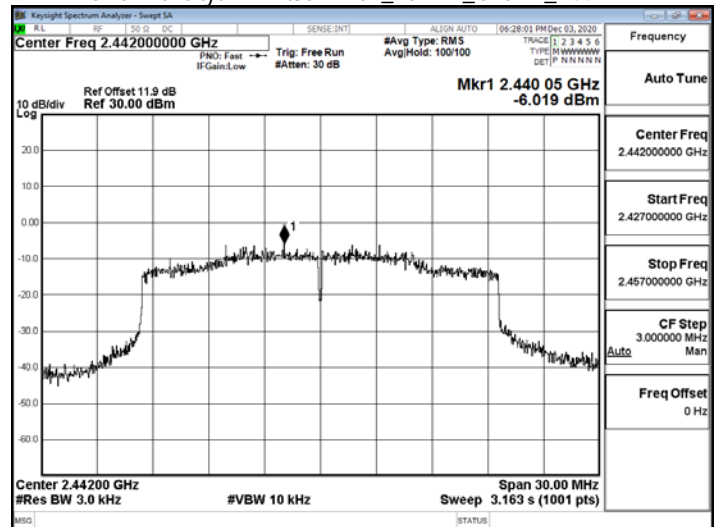
Power Density\WLAN\802.11ax_20MHz_Chain1_2437MHz



Power Density\WLAN\802.11ax_20MHz_Chain1_2412MHz_RU26_0



Power Density\WLAN\802.11ax_20MHz_Chain1_2442MHz

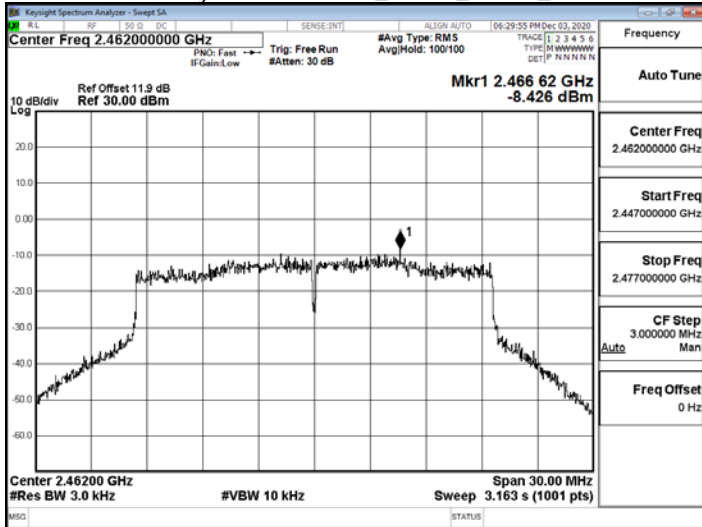


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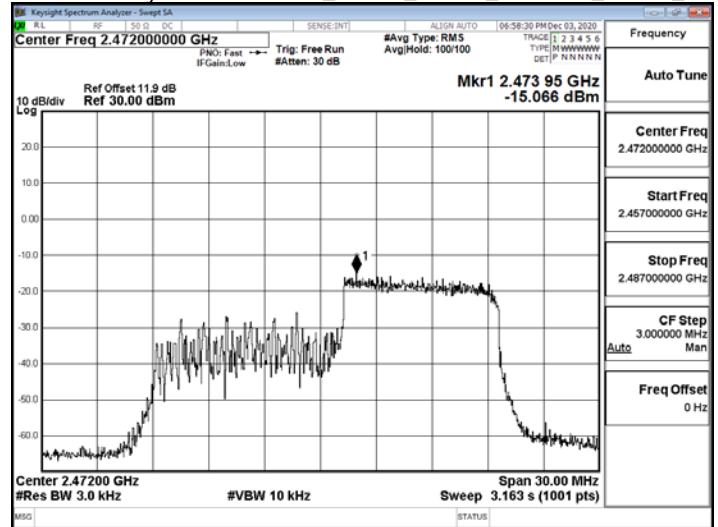
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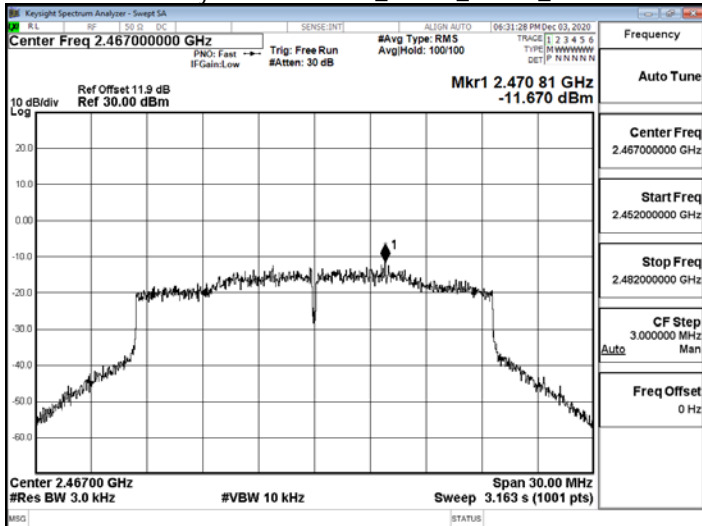
Power Density\WLAN\802.11ax_20MHz_Chain1_2462MHz



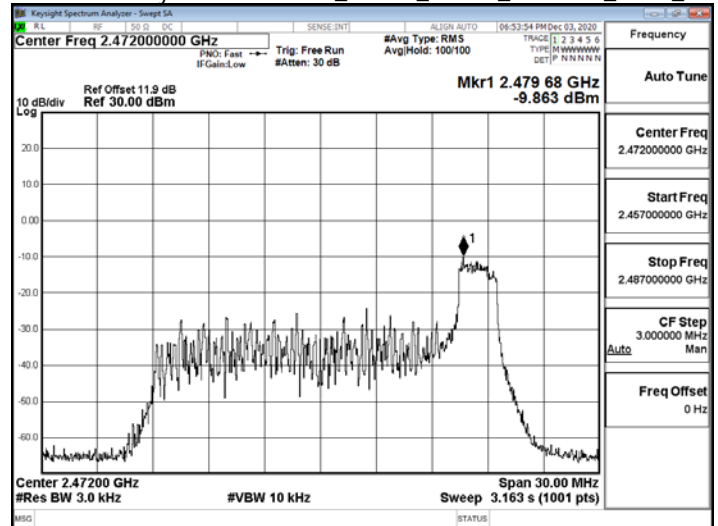
Power Density\WLAN\802.11ax_20MHz_Chain1_2472MHz_RU106_54



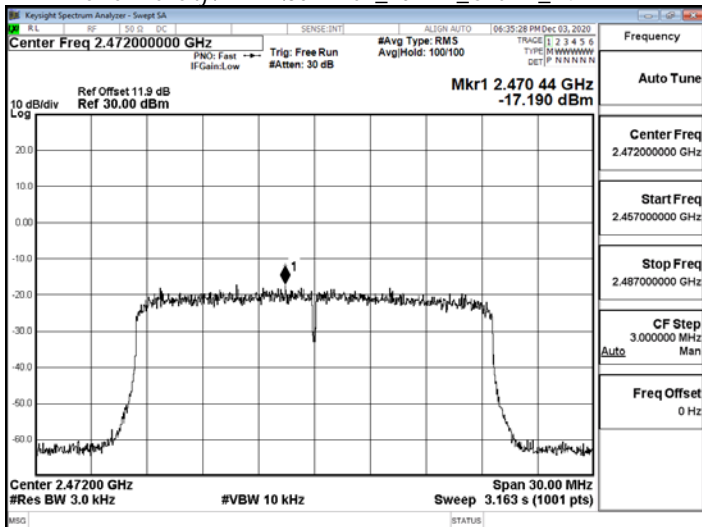
Power Density\WLAN\802.11ax_20MHz_Chain1_2467MHz



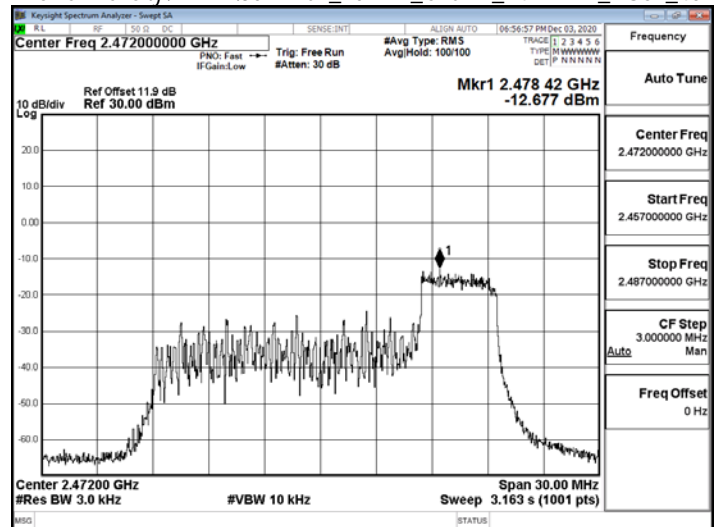
Power Density\WLAN\802.11ax_20MHz_Chain1_2472MHz_RU26_8



Power Density\WLAN\802.11ax_20MHz_Chain1_2472MHz



Power Density\WLAN\802.11ax_20MHz_Chain1_2472MHz_RU52_40



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