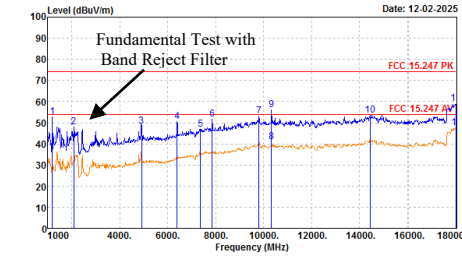


802.11be40 high channel Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



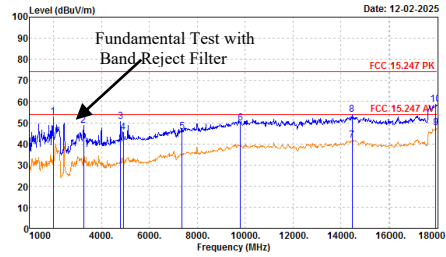
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11be40 high channel 2452MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

Freq	Read		Limit		Pol/Phase	Remark
	MHz	dBuV	dB/m	dBuV/m	dB	
1	1187.000	69.87	-16.95	52.92	74.00	-21.08 HORIZONTAL Peak
2	2088.000	60.90	-12.78	48.12	74.00	-25.88 HORIZONTAL Peak
3	4984.000	55.75	-7.36	48.39	74.00	-25.61 HORIZONTAL Peak
4	6389.000	55.70	-5.15	50.55	74.00	-23.45 HORIZONTAL Peak
5	7356.000	49.57	-2.60	46.97	74.00	-27.03 HORIZONTAL Peak
6	7851.000	53.55	-1.86	51.69	74.00	-22.31 HORIZONTAL Peak
7	9088.000	52.39	0.90	53.29	74.00	-20.71 HORIZONTAL Peak
8	10316.000	39.85	0.97	40.82	54.00	-13.18 HORIZONTAL Average
9	10316.000	55.24	0.97	56.21	74.00	-17.79 HORIZONTAL Peak
10	14430.000	49.90	3.78	53.68	74.00	-20.32 HORIZONTAL Peak
11	18000.000	34.22	13.51	47.73	54.00	-6.27 HORIZONTAL Average
12	18000.000	45.38	13.51	58.89	74.00	-15.11 HORIZONTAL Peak

802.11be40 high channel Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



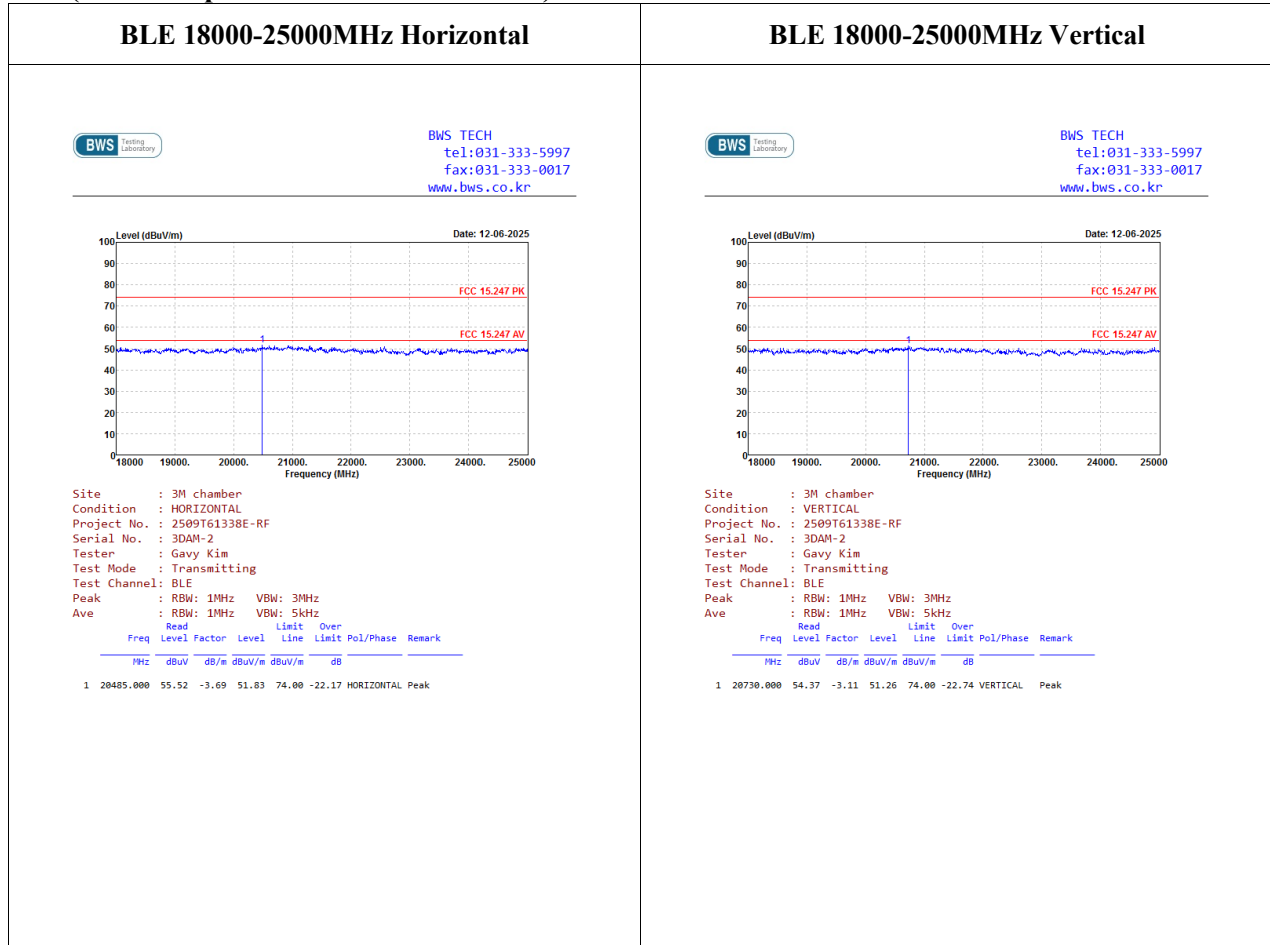
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11be40 high channel 2452MHz
Peak : RBW: 1MHz VBW: 3MHz
Ave : RBW: 1MHz VBW: 5kHz

Freq	Read		Limit		Pol/Phase	Remark
	MHz	dBuV	dB/m	dBuV/m	dB	
1	1986.000	66.54	-13.81	52.73	74.00	-21.27 VERTICAL Peak
2	3244.000	58.40	-9.85	48.55	74.00	-25.45 VERTICAL Peak
3	4791.000	58.07	-7.52	50.55	74.00	-23.45 VERTICAL Peak
4	4984.000	52.72	-7.36	45.36	74.00	-28.64 VERTICAL Peak
5	7356.000	48.24	-2.60	45.64	74.00	-28.36 VERTICAL Peak
6	9808.000	48.81	0.90	49.71	74.00	-24.29 VERTICAL Peak
7	14464.000	38.02	3.80	41.82	54.00	-12.18 VERTICAL Average
8	14464.000	50.03	3.80	53.83	74.00	-20.17 VERTICAL Peak
9	17932.000	34.97	12.69	47.66	54.00	-6.34 VERTICAL Average
10	17932.000	46.10	12.69	58.79	74.00	-15.21 VERTICAL Peak

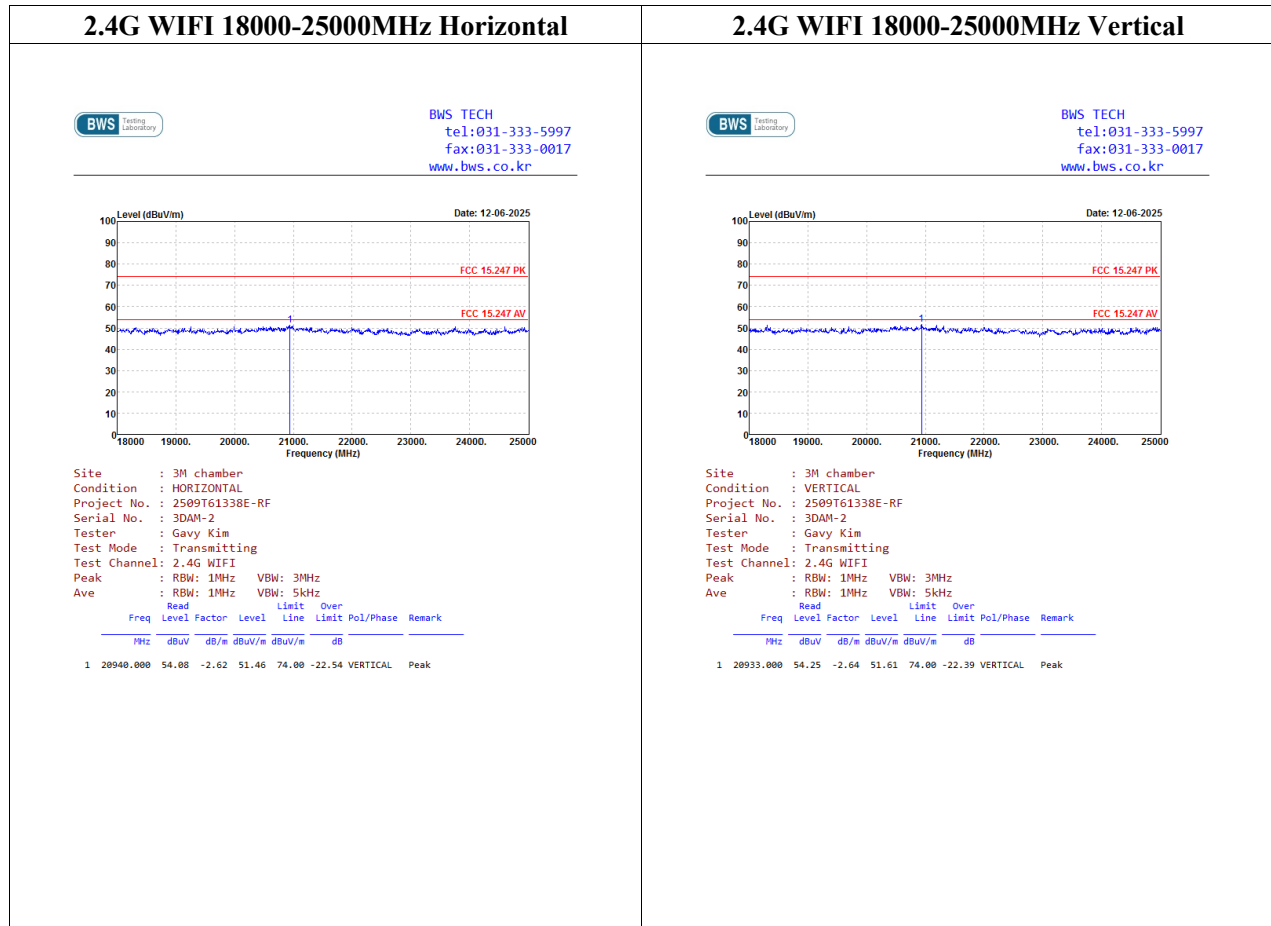
18-25GHz:

No Emission was detected in the range 18-25GHz, test was performed on the mode and channel which with the maximum power.

BLE(BLE 1Mbps Low Channel was tested):



2.4G WIFI(802.11n40 High Channel was tested):



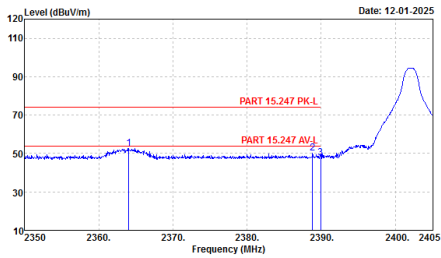
Bandedge:

BLE:

BLE 1M low channel Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



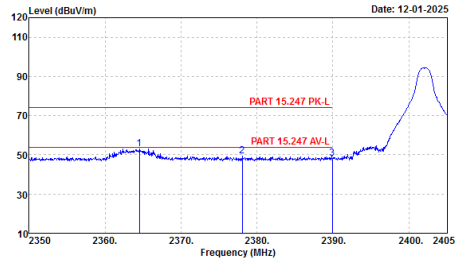
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: BLE 1M low channel 2402MHz
Peak : RBW:1MHz VBW:30Hz
Ave : RBW:1MHz VBW:5kHz

	Read	Level	Factor	Limit	Over	Pol/Phase	Remark
Freq	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1 2364.000	67.51	-14.71	52.80	74.00	-21.20	HORIZONTAL	Peak
2 2388.885	64.78	-14.62	50.16	74.00	-23.84	HORIZONTAL	Peak
3 2398.000	62.28	-14.62	47.66	74.00	-26.34	HORIZONTAL	Peak

BLE 1M low channel Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



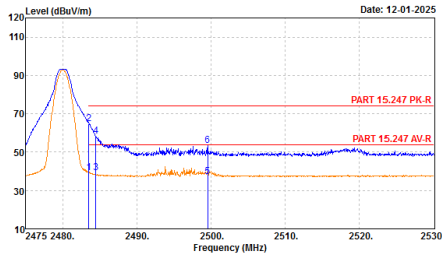
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: BLE 1M low channel 2402MHz
Peak : RBW:1MHz VBW:30Hz
Ave : RBW:1MHz VBW:5kHz

	Read	Level	Factor	Limit	Over	Pol/Phase	Remark
Freq	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1 2364.520	67.61	-14.71	52.90	74.00	-21.10	VERTICAL	Peak
2 2378.185	64.16	-14.66	49.50	74.00	-24.50	VERTICAL	Peak
3 2398.000	62.89	-14.62	48.27	74.00	-25.73	VERTICAL	Peak

BLE 1M high channel Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



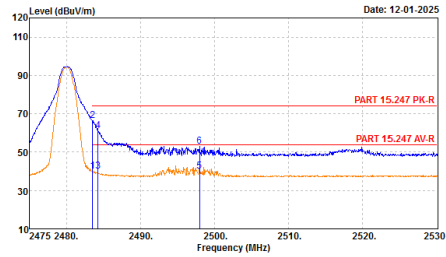
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: BLE 1M high channel 2480MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Freq	Read Level	Factor	Level	Limit	Over	Limit	Pol/Phase	Remark
	MHz	dBuV		dB/m	dBuV/m		dB		
1	2483.580	53.55	-14.30	39.25	54.00	-14.75	HORIZONTAL	Average	
2	2483.580	79.25	-14.30	64.95	74.00	-9.05	HORIZONTAL	Peak	
3	2484.460	53.40	-14.30	39.10	54.00	-14.90	HORIZONTAL	Average	
4	2484.460	72.75	-14.30	58.45	74.00	-15.55	HORIZONTAL	Peak	
5	2499.530	51.40	-14.24	37.25	54.00	-16.75	HORIZONTAL	Average	
6	2499.530	67.75	-14.24	53.51	74.00	-20.49	HORIZONTAL	Peak	

BLE 1M high channel Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



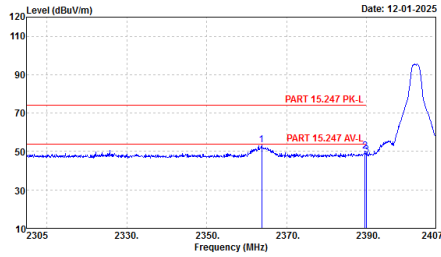
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: BLE 1M high channel 2480MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Freq	Read Level	Factor	Level	Limit	Over	Limit	Pol/Phase	Remark
	MHz	dBuV		dB/m	dBuV/m		dB		
1	2483.580	54.29	-14.30	39.99	54.00	-14.01	VERTICAL	Average	
2	2483.580	80.78	-14.30	66.48	74.00	-7.52	VERTICAL	Peak	
3	2484.240	54.14	-14.30	39.84	54.00	-14.16	VERTICAL	Average	
4	2484.240	75.26	-14.30	60.96	74.00	-13.04	VERTICAL	Peak	
5	2497.935	54.16	-14.24	39.92	54.00	-14.08	VERTICAL	Average	
6	2497.935	67.46	-14.24	53.22	74.00	-20.78	VERTICAL	Peak	

BLE 2M low channel Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



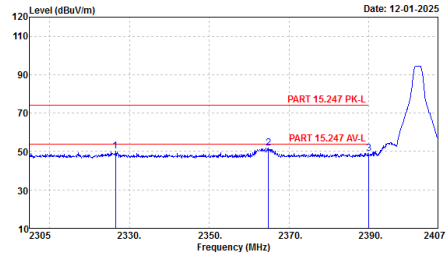
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: BLE 2M low channel 2402MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

Read	Level	Factor	Level	Line	Limit	Pol/Phase	Remark
Freq	dBuV	dB/m	dBuV/m	dBuV/m	dB		
MHz							
1 2363.752	67.97	-14.72	53.25	74.00	-20.75	HORIZONTAL	Peak
2 2389.558	64.94	-14.62	50.32	74.00	-23.68	HORIZONTAL	Peak
3 2390.000	62.67	-14.62	48.05	74.00	-25.95	HORIZONTAL	Peak

BLE 2M low channel Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



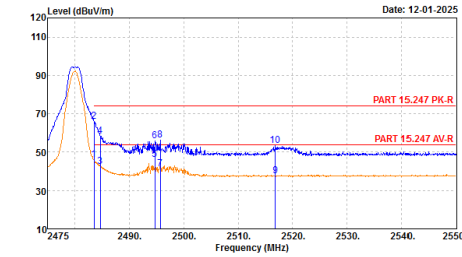
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: BLE 2M low channel 2402MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

Read	Level	Factor	Level	Line	Limit	Pol/Phase	Remark
Freq	dBuV	dB/m	dBuV/m	dBuV/m	dB		
MHz							
1 2326.522	64.86	-14.84	50.02	74.00	-23.98	VERTICAL	Peak
2 2364.874	66.56	-14.71	51.85	74.00	-22.15	VERTICAL	Peak
3 2390.000	63.72	-14.62	49.10	74.00	-24.90	VERTICAL	Peak

BLE 2M high channel Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



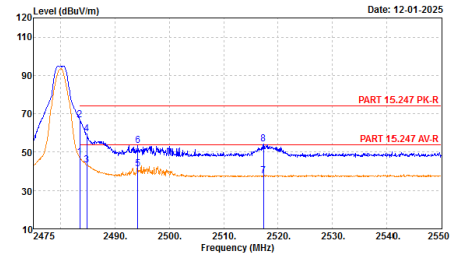
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: BLE 2M high channel 2480MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Read	Level	Factor	Level	Limit	Over	Limit	Pol/Phase	Remark
Freq	Level	Factor	Level	Limit	Over	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB				
1	2483.580	60.29	-14.30	45.99	54.00	-8.01	HORIZONTAL	Average	
2	2483.580	80.37	-14.30	66.07	74.00	-7.93	HORIZONTAL	Peak	
3	2484.675	56.92	-14.30	42.62	54.00	-11.38	HORIZONTAL	Average	
4	2484.675	72.64	-14.30	58.34	74.00	-15.66	HORIZONTAL	Peak	
5	2494.650	60.27	-14.26	46.01	54.00	-7.99	HORIZONTAL	Average	
6	2494.650	70.16	-14.26	55.90	74.00	-18.10	HORIZONTAL	Peak	
7	2495.700	55.43	-14.26	41.17	54.00	-12.83	HORIZONTAL	Average	
8	2495.700	70.35	-14.26	56.09	74.00	-17.91	HORIZONTAL	Peak	
9	2516.850	51.57	-14.16	37.41	54.00	-16.59	HORIZONTAL	Average	
10	2516.850	67.43	-14.16	53.27	74.00	-20.73	HORIZONTAL	Peak	

BLE 2M high channel Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: BLE 2M high channel 2480MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

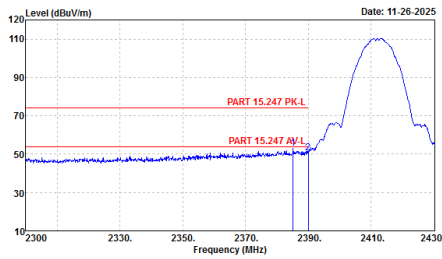
	Read	Level	Factor	Level	Limit	Over	Limit	Pol/Phase	Remark
Freq	Level	Factor	Level	Limit	Over	Limit	Pol/Phase	Remark	
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB				
1	2483.580	61.56	-14.30	47.26	54.00	-6.74	VERTICAL	Average	
2	2483.580	81.29	-14.30	66.99	74.00	-7.01	VERTICAL	Peak	
3	2484.750	57.54	-14.30	43.24	54.00	-10.76	VERTICAL	Average	
4	2484.750	73.81	-14.30	59.51	74.00	-14.49	VERTICAL	Peak	
5	2494.200	55.70	-14.26	41.44	54.00	-12.56	VERTICAL	Average	
6	2494.200	67.74	-14.26	53.48	74.00	-20.52	VERTICAL	Peak	
7	2517.375	51.69	-14.15	37.54	54.00	-16.46	VERTICAL	Average	
8	2517.375	68.59	-14.15	54.44	74.00	-19.56	VERTICAL	Peak	

2.4G WIFI:

802.11b low channel Chain0 Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



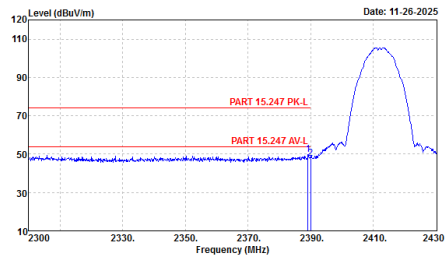
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11b low channel 2412MHz Chain 0
Peak : RBW:1MHz VBW:3MHz

	Freq	Read		Level	Limit	Over	Line	Limit Pol/Phase	Remark
		MHz	dBuV	dB/m	dBuV/m	dB			
1	2385.150	67.66	-14.64	53.02	74.00	-20.98		HORIZONTAL	Peak
2	2390.000	65.28	-14.62	50.66	74.00	-23.34		HORIZONTAL	Peak

802.11b low channel Chain0 Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



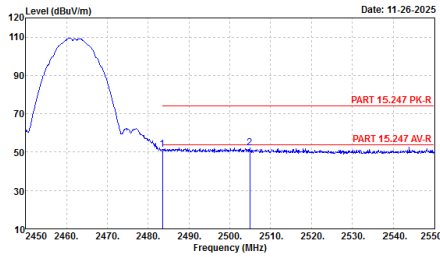
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11b low channel 2412MHz Chain 0
Peak : RBW:1MHz VBW:3MHz

	Freq	Read		Level	Limit	Over	Line	Limit Pol/Phase	Remark
		MHz	dBuV	dB/m	dBuV/m	dB			
1	2389.180	64.20	-14.62	49.58	74.00	-24.42		VERTICAL	Peak
2	2390.000	62.51	-14.62	47.89	74.00	-26.11		VERTICAL	Peak

802.11b high channel Chain0 Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



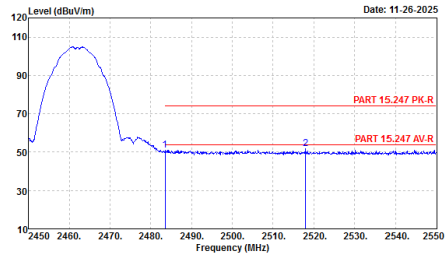
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel : 802.11b high channel 2462MHz Chain 0
Peak : RBW:1MHz VBW:3MHz

	Read	Level	Factor	Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1 2483.500	65.62	-14.30	51.32	74.00	-22.68	HORIZONTAL	Peak
2 2504.900	66.47	-14.22	52.25	74.00	-21.75	HORIZONTAL	Peak

802.11b high channel Chain0 Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel : 802.11b high channel 2462MHz Chain 0
Peak : RBW:1MHz VBW:3MHz

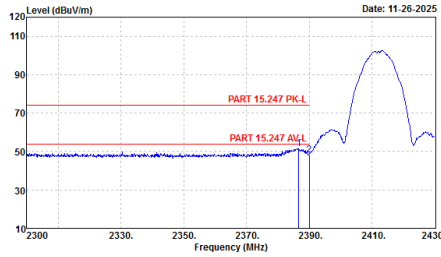
	Read	Level	Factor	Limit	Over		
Freq	Level	Factor	Level	Line	Limit	Pol/Phase	Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		
1 2483.500	65.42	-14.30	51.12	74.00	-22.88	VERTICAL	Peak
2 2518.000	65.83	-14.15	51.68	74.00	-22.32	VERTICAL	Peak

802.11b low channel Chain1 Bandedge Horizontal

802.11b low channel Chain1 Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr

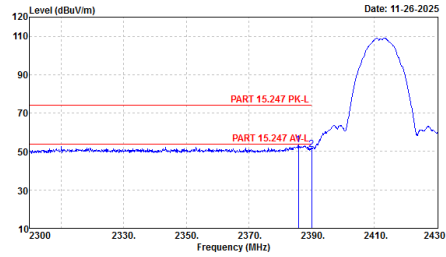


Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11b low channel 2412MHz Chain 1
Peak : RBW:1MHz VBW:3MHz

	Freq	Read		Level	Limit		Over	Pol/Phase	Remark
		MHz	dBuV	dB/m	dBuV/m	dB			
1	2386.710	66.10	-14.62	51.48	74.00	-22.52		HORIZONTAL	Peak
2	2390.000	62.80	-14.62	48.18	74.00	-25.82		HORIZONTAL	Peak



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



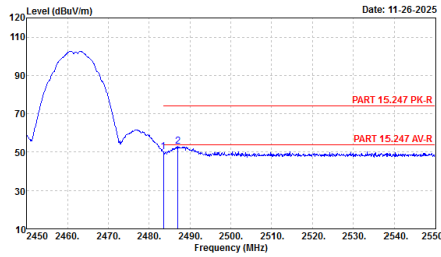
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11b low channel 2412MHz Chain 1
Peak : RBW:1MHz VBW:3MHz

	Freq	Read		Level	Limit		Over	Pol/Phase	Remark
		MHz	dBuV	dB/m	dBuV/m	dB			
1	2385.800	68.01	-14.63	53.38	74.00	-20.62		VERTICAL	Peak
2	2390.000	65.62	-14.62	51.00	74.00	-23.00		VERTICAL	Peak

802.11b high channel Chain1 Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



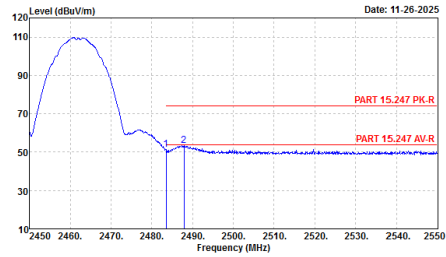
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel : 802.11b high channel 2462MHz Chain 1
Peak : RBW:1MHz VBW:3MHz

	Read	Level	Factor	Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Remark
1 2483.500	64.67	-14.30	50.37	74.00	-23.63	HORIZONTAL Peak
2 2487.000	67.14	-14.28	52.86	74.00	-21.14	HORIZONTAL Peak

802.11b high channel Chain1 Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



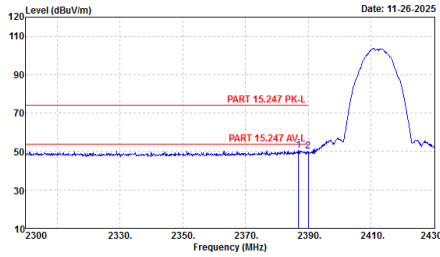
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel : 802.11b high channel 2462MHz Chain 1
Peak : RBW:1MHz VBW:3MHz

	Read	Level	Factor	Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Remark
1 2483.500	65.58	-14.30	51.28	74.00	-22.72	VERTICAL Peak
2 2487.000	67.79	-14.27	53.52	74.00	-20.48	VERTICAL Peak

802.11b low channel Chain2 Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



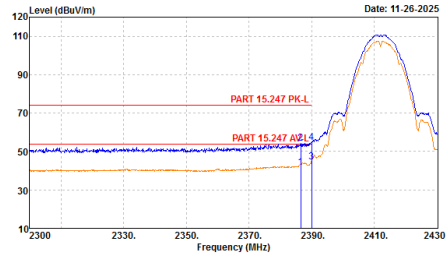
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11b low channel 2412MHz Chain 2
Peak : RBW:1MHz VBW:3MHz

	Freq	Read		Level	Limit		Over	Pol/Phase	Remark
		MHz	dBuV	dB/m	dBuV/m	dB			
1	2386.970	65.20	-14.62	50.58	74.00	-23.42		HORIZONTAL	Peak
2	2390.000	64.68	-14.62	50.06	74.00	-23.94		HORIZONTAL	Peak

802.11b low channel Chain2 Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



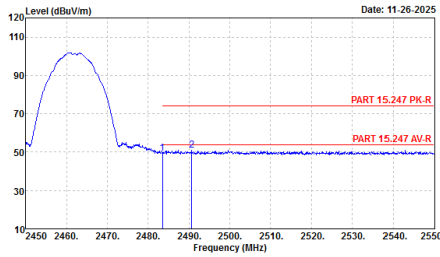
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11b low channel 2412MHz Chain 2
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Freq	Read		Level	Limit		Over	Pol/Phase	Remark
		MHz	dBuV	dB/m	dBuV/m	dB			
1	2386.580	56.37	-14.62	41.75	54.00	-12.25		VERTICAL	Average
2	2386.580	68.76	-14.62	54.14	74.00	-19.86		VERTICAL	Peak
3	2390.000	59.32	-14.62	44.70	54.00	-9.30		VERTICAL	Average
4	2390.000	69.14	-14.62	54.52	74.00	-19.48		VERTICAL	Peak

802.11b high channel Chain2 Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



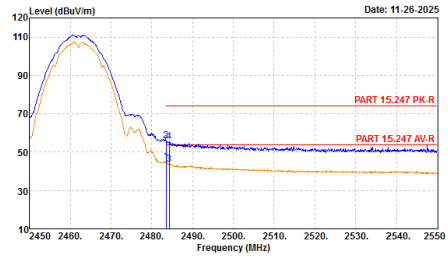
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11b high channel 2462MHz Chain 2
Peak : RBW:1MHz VBW:3MHz

	Read	Level	Factor	Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2483.500	63.64	-14.30	49.34	74.00	-24.66 HORIZONTAL Peak
2	2490.700	65.42	-14.27	51.15	74.00	-22.85 HORIZONTAL Peak

802.11b high channel Chain2 Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11b high channel 2462MHz Chain 2
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

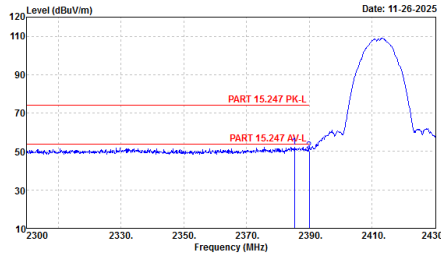
	Read	Level	Factor	Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1	2483.500	59.06	-14.30	44.76	54.00	-9.24 VERTICAL Average
2	2483.500	70.06	-14.30	55.76	74.00	-18.24 VERTICAL Peak
3	2484.300	58.06	-14.30	43.76	54.00	-10.24 VERTICAL Average
4	2484.300	69.01	-14.30	55.51	74.00	-18.49 VERTICAL Peak

802.11b low channel Chain3 Bandedge Horizontal

802.11b low channel Chain3 Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr

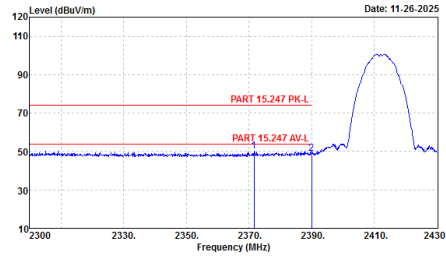


Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11b low channel 2412MHz Chain 3
Peak : RBW:1MHz VBW:3MHz

	Freq	Read		Level	Limit		Over	Pol/Phase	Remark
		MHz	dBuV	dB/m	dBuV/m	dB			
1	2385.280	66.90	-14.64	52.26	74.00	-21.74		HORIZONTAL	Peak
2	2390.000	65.00	-14.62	50.38	74.00	-23.62		HORIZONTAL	Peak



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



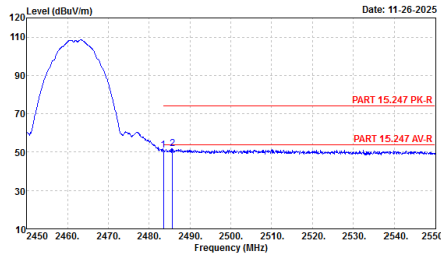
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11b low channel 2412MHz Chain 3
Peak : RBW:1MHz VBW:3MHz

	Freq	Read		Level	Limit		Over	Pol/Phase	Remark
		MHz	dBuV	dB/m	dBuV/m	dB			
1	2371.630	64.91	-14.69	50.22	74.00	-23.78		VERTICAL	Peak
2	2390.000	63.42	-14.62	48.80	74.00	-25.20		VERTICAL	Peak

802.11b high channel Chain3 Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



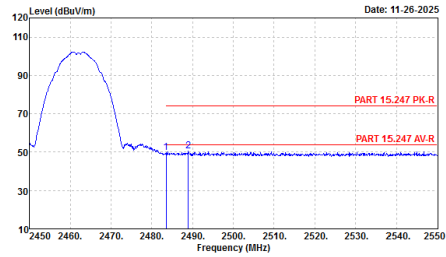
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel : 802.11b high channel 2462MHz Chain 3
Peak : RBW:1MHz VBW:3MHz

	Read	Level	Factor	Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 2483.500	65.18	-14.30	50.88	74.00	-23.12	HORIZONTAL Peak
2 2485.700	66.16	-14.30	51.86	74.00	-22.14	HORIZONTAL Peak

802.11b high channel Chain3 Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



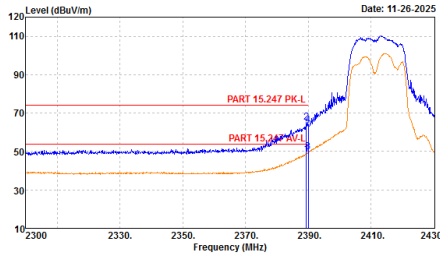
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel : 802.11b high channel 2462MHz Chain 3
Peak : RBW:1MHz VBW:3MHz

	Read	Level	Factor	Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Pol/Phase
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	
1 2483.500	63.95	-14.30	49.65	74.00	-24.35	VERTICAL Peak
2 2489.000	65.82	-14.27	50.75	74.00	-23.25	VERTICAL Peak

802.11g low channel Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



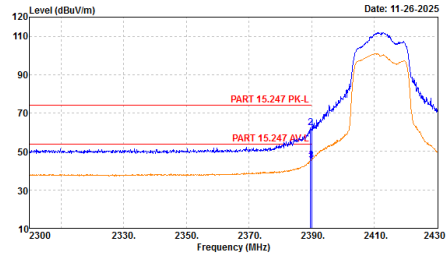
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11g low channel 2412MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Freq	Read		Limit		Over	Pol/Phase	Remark
		MHz	dBuV	dB/m	dBuV/m			
1	2389.440	63.27	-14.62	48.65	54.00	-5.35	HORIZONTAL	Average
2	2389.440	79.76	-14.62	65.14	74.00	-8.86	HORIZONTAL	Peak
3	2390.000	64.60	-14.62	49.98	54.00	-4.82	HORIZONTAL	Average
4	2390.000	78.05	-14.62	63.43	74.00	-10.57	HORIZONTAL	Peak

802.11g low channel Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



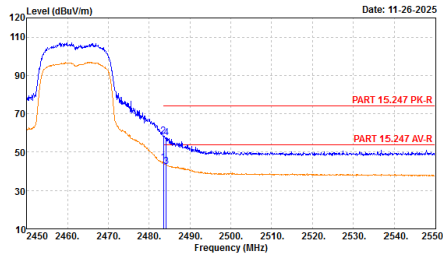
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11g low channel 2412MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Freq	Read		Limit		Over	Pol/Phase	Remark
		MHz	dBuV	dB/m	dBuV/m			
1	2389.700	59.53	-14.62	44.91	54.00	-9.09	VERTICAL	Average
2	2389.700	76.92	-14.62	62.30	74.00	-11.70	VERTICAL	Peak
3	2390.000	59.92	-14.62	45.30	54.00	-8.70	VERTICAL	Average
4	2390.000	76.09	-14.62	61.47	74.00	-12.53	VERTICAL	Peak

802.11g high channel Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



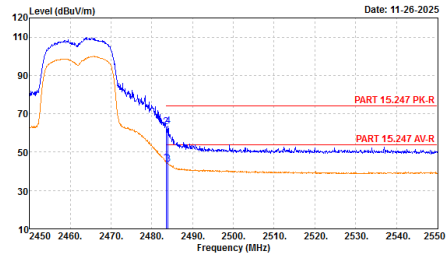
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11g high channel 2462MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
1	2483.500	58.83	-14.30	44.53
2	2483.500	72.70	-14.30	58.40
3	2484.200	56.84	-14.30	42.54
4	2484.200	71.97	-14.30	57.67

802.11g high channel Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



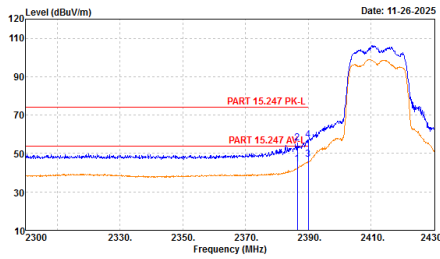
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11g high channel 2462MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
1	2483.500	58.87	-14.30	44.57
2	2483.500	77.37	-14.30	63.07
3	2484.000	57.92	-14.30	43.62
4	2484.000	78.05	-14.30	63.75

802.11n20 low channel Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



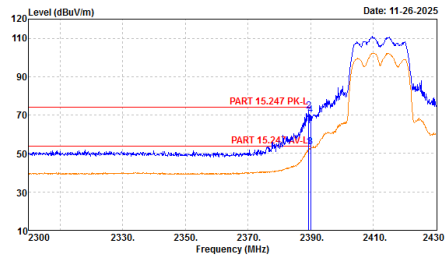
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11n20 low channel 2412MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Freq	Read		Limit		Over	Remark
		MHz	dBuV	dB/m	dBuV/m	dB	
1	2386.580	59.09	-14.62	44.47	54.00	-9.53	HORIZONTAL Average
2	2386.580	70.15	-14.62	55.53	74.00	-18.47	HORIZONTAL Peak
3	2390.000	61.48	-14.62	46.06	54.00	-7.14	HORIZONTAL Average
4	2390.000	71.06	-14.62	57.24	74.00	-16.76	HORIZONTAL Peak

802.11n20 low channel Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



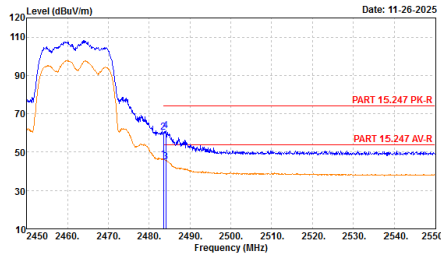
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11n20 low channel 2412MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Freq	Read		Limit		Over	Remark
		MHz	dBuV	dB/m	dBuV/m	dB	
1	2389.440	68.20	-14.62	53.58	54.00	-0.42	VERTICAL Average
2	2389.440	86.04	-14.62	72.22	74.00	-1.78	VERTICAL Peak
3	2390.000	67.89	-14.62	53.27	54.00	-0.73	VERTICAL Average
4	2390.000	84.50	-14.62	69.08	74.00	-4.12	VERTICAL Peak

802.11n20 high channel Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel : 802.11n20 high channel 2462MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

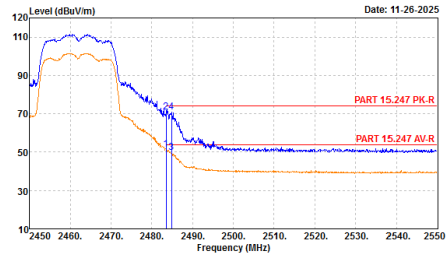
	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
1	2483.500	60.40	-14.30	46.10
2	2483.500	74.83	-14.30	60.53
3	2484.100	59.39	-14.30	45.09
4	2484.100	75.32	-14.30	61.02

54.00 -7.90 HORIZONTAL Average
74.00 -13.47 HORIZONTAL Peak
54.00 -8.91 HORIZONTAL Average
74.00 -12.98 HORIZONTAL Peak

802.11n20 high channel Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel : 802.11n20 high channel 2462MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

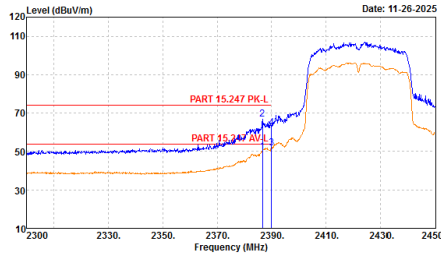
	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
1	2483.500	65.53	-14.30	51.23
2	2483.500	85.20	-14.30	70.90
3	2484.000	63.88	-14.30	49.58
4	2484.000	84.98	-14.30	70.68

54.00 -2.77 VERTICAL Average
74.00 -3.10 VERTICAL Peak
54.00 -4.42 VERTICAL Average
74.00 -3.32 VERTICAL Peak

802.11n40 low channel Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



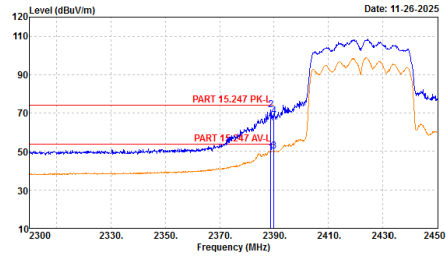
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11n40 low channel 2422MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Freq	Read		Limit		Over	Pol/Phase	Remark
		MHz	dBuV	dB/m	dBuV/m			
1	2386.700	64.48	-14.62	49.86	54.00	-4.14	HORIZONTAL	Average
2	2386.700	81.34	-14.62	66.72	74.00	-7.28	HORIZONTAL	Peak
3	2390.000	66.47	-14.62	51.85	54.00	-2.15	HORIZONTAL	Average
4	2390.000	76.93	-14.62	62.31	74.00	-11.69	HORIZONTAL	Peak

802.11n40 low channel Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



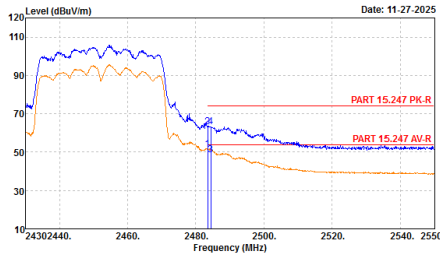
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11n40 low channel 2422MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Freq	Read		Limit		Over	Pol/Phase	Remark
		MHz	dBuV	dB/m	dBuV/m			
1	2388.800	63.87	-14.62	49.25	54.00	-4.75	VERTICAL	Average
2	2388.800	86.45	-14.62	71.83	74.00	-2.17	VERTICAL	Peak
3	2390.000	65.00	-14.62	50.38	54.00	-3.62	VERTICAL	Average
4	2390.000	83.00	-14.62	66.38	74.00	-5.62	VERTICAL	Peak

802.11n40 high channel Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11n40 high channel 2452MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

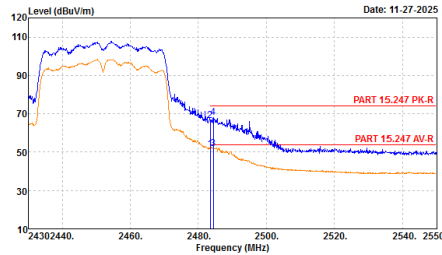
	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
1	2483.500	65.59	-14.30	51.29
2	2483.500	77.63	-14.30	63.33
3	2484.480	62.99	-14.30	48.69
4	2484.480	77.58	-14.30	63.28

1 2483.500 65.59 -14.30 51.29 54.00 -2.71 HORIZONTAL Average
2 2483.500 77.63 -14.30 63.33 74.00 -10.67 HORIZONTAL Peak
3 2484.480 62.99 -14.30 48.69 54.00 -5.31 HORIZONTAL Average
4 2484.480 77.58 -14.30 63.28 74.00 -10.72 HORIZONTAL Peak

802.11n40 high channel Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11n40 high channel 2452MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

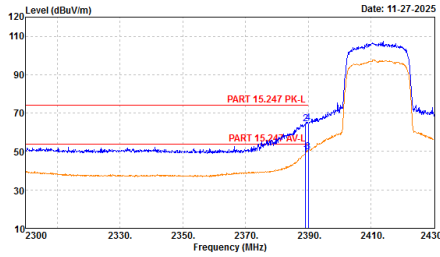
	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
1	2483.500	65.76	-14.30	51.46
2	2483.500	80.74	-14.30	66.44
3	2484.480	65.98	-14.30	51.68
4	2484.480	82.51	-14.30	68.21

1 2483.500 65.76 -14.30 51.46 54.00 -2.54 VERTICAL Average
2 2483.500 80.74 -14.30 66.44 74.00 -7.56 VERTICAL Peak
3 2484.480 65.98 -14.30 51.68 54.00 -2.32 VERTICAL Average
4 2484.480 82.51 -14.30 68.21 74.00 -5.79 VERTICAL Peak

802.11be20 low channel Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



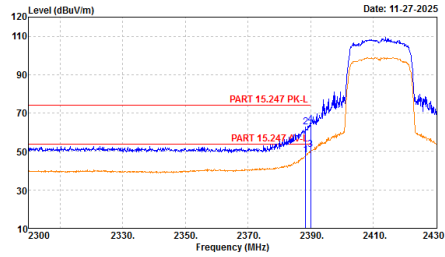
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11be20 low channel 2412MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Freq	Read		Limit		Over	Remark
		MHz	dBuV	dB/m	dBuV/m	dB	
1	2389.180	63.00	-14.62	48.38	54.00	-5.62	HORIZONTAL Average
2	2389.180	76.97	-14.62	64.35	74.00	-9.65	HORIZONTAL Peak
3	2390.000	64.56	-14.62	49.94	54.00	-4.86	HORIZONTAL Average
4	2390.000	79.49	-14.62	64.87	74.00	-9.13	HORIZONTAL Peak

802.11be20 low channel Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



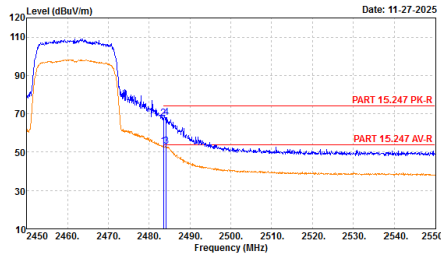
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11be20 low channel 2412MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Freq	Read		Limit		Over	Remark
		MHz	dBuV	dB/m	dBuV/m	dB	
1	2388.400	62.86	-14.62	48.24	54.00	-5.76	VERTICAL Average
2	2388.400	77.41	-14.62	62.79	74.00	-11.21	VERTICAL Peak
3	2390.000	65.63	-14.62	51.01	54.00	-2.99	VERTICAL Average
4	2390.000	78.48	-14.62	63.86	74.00	-10.14	VERTICAL Peak

802.11be20 high channel Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



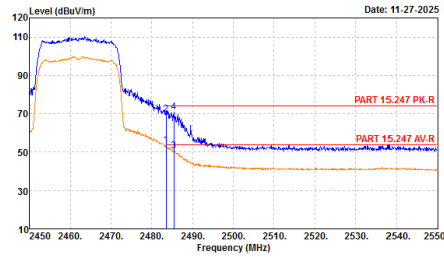
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11be20 high channel 2462MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
				dB
1	2483.500	67.43	-14.30	53.13
2	2483.500	81.84	-14.30	67.54
3	2484.200	67.41	-14.30	53.11
4	2484.200	82.42	-14.30	68.12

802.11be20 high channel Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



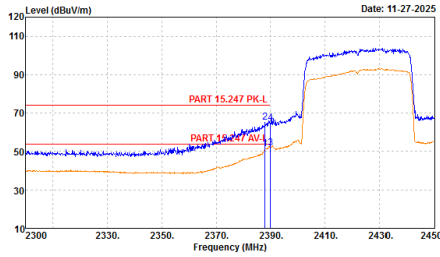
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11be20 high channel 2462MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Read	Limit	Over	
Freq	Level	Factor	Level	Line
MHz	dBuV	dB/m	dBuV/m	dBuV/m
				dB
1	2483.500	67.60	-14.30	53.30
2	2483.500	84.07	-14.30	69.77
3	2485.400	64.94	-14.30	50.64
4	2485.400	85.04	-14.30	70.74

802.11be40 low channel Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



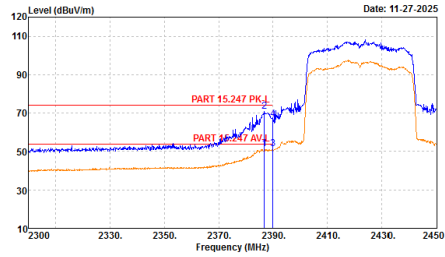
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11be40 low channel 2422MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Freq	Read		Limit		Over	Pol/Phase	Remark
		MHz	dBuV	dB/m	dBuV/m			
1	2388.850	65.96	-14.62	51.34	54.00	-2.66	HORIZONTAL	Average
2	2388.850	79.86	-14.62	65.24	74.00	-8.76	HORIZONTAL	Peak
3	2390.000	66.62	-14.62	52.00	54.00	-2.00	HORIZONTAL	Average
4	2390.000	79.42	-14.62	64.00	74.00	-9.20	HORIZONTAL	Peak

802.11be40 low channel Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



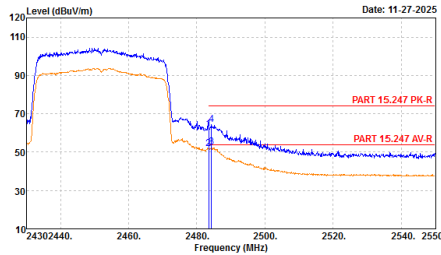
Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11be40 low channel 2422MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Freq	Read		Limit		Over	Pol/Phase	Remark
		MHz	dBuV	dB/m	dBuV/m			
1	2386.850	66.10	-14.62	51.48	54.00	-2.52	VERTICAL	Average
2	2386.850	85.44	-14.62	70.82	74.00	-3.18	VERTICAL	Peak
3	2390.000	65.96	-14.62	51.34	54.00	-2.66	VERTICAL	Average
4	2390.000	81.63	-14.62	67.01	74.00	-6.99	VERTICAL	Peak

802.11be40 high channel Bandedge Horizontal



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



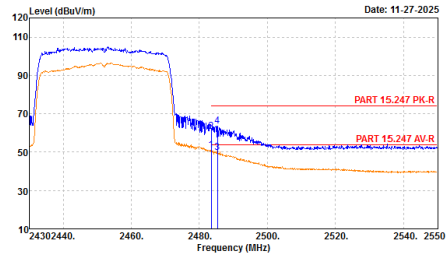
Site : 3M chamber
Condition : HORIZONTAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11be40 high channel 2452MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Read	Limit	Over		
Freq	Level	Factor	Level	Line	Limit Pol/Phase Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 2483.500	76.35	-14.30	62.05	74.00	-11.95 HORIZONTAL Peak
2 2483.500	66.29	-14.30	51.99	74.00	-22.01 HORIZONTAL Peak
3 2484.360	66.87	-14.30	52.57	54.00	-1.43 HORIZONTAL Average
4 2484.360	78.64	-14.30	64.34	74.00	-9.66 HORIZONTAL Peak

802.11be40 high channel Bandedge Vertical



BWS TECH
tel:031-333-5997
fax:031-333-0017
www.bws.co.kr



Site : 3M chamber
Condition : VERTICAL
Project No. : 2509T61338E-RF
Serial No. : 3DAM-2
Tester : Gavy Kim
Test Mode : Transmitting
Test Channel: 802.11be40 high channel 2452MHz
Peak : RBW:1MHz VBW:3MHz
Ave : RBW:1MHz VBW:5kHz

	Read	Limit	Over		
Freq	Level	Factor	Level	Line	Limit Pol/Phase Remark
MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB
1 2483.500	65.19	-14.30	50.89	54.00	-3.11 VERTICAL Average
2 2483.500	75.03	-14.30	60.73	74.00	-13.27 VERTICAL Peak
3 2485.320	64.15	-14.30	49.85	54.00	-4.15 VERTICAL Average
4 2485.320	78.01	-14.30	63.71	74.00	-10.29 VERTICAL Peak

FCC §15.247(a) (2) - 6 dB EMISSION BANDWIDTH

Applicable Standard

According to FCC §15.247(a) (2)

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

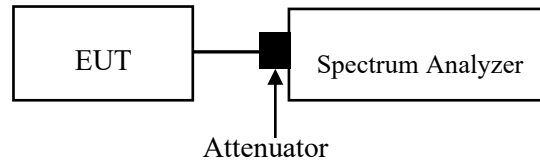
Test Procedure

Test Method: ANSI C63.10-2020 Clause 11.8.1 & Clause 6.9.3

- a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- b) Set the VBW $\geq [3 \times \text{RBW}]$.
- c) Detector = peak.
- d) Trace mode = max-hold.
- e) Sweep = No faster than coupled (auto) time.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “–6 dB down amplitude”. If a marker is below this “–6 dB down amplitude” value, then it shall be as close as possible to this value.

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. Procedure as below

- a. The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b. The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c. Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level.
- d. Step a) through step c) might require iteration to adjust within the specified range.
- e. Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f. Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g. If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h. The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



Test Data

Environmental Conditions

Temperature:	18.7~20.5 °C
Relative Humidity:	46~51 %
ATM Pressure:	101.5~101.8 kPa

The testing was performed by Gavy Kim on 2025/11/11~2025/11/13.

EUT operation mode: Transmitting

Test Result: Compliant.

6dB Emission Bandwidth

BLE 1M

Channel	Result (MHz)	Limit (MHz)	Verdict
Low	0.666	≥ 0.5	Pass
Middle	0.661	≥ 0.5	Pass
High	0.660	≥ 0.5	Pass

BLE 2M

Channel	Result (MHz)	Limit (MHz)	Verdict
Low	1.190	≥ 0.5	Pass
Middle	1.184	≥ 0.5	Pass
High	1.186	≥ 0.5	Pass

2.4G WIFI

Mode	Antenna	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
802.11b	Chain 0	2412	8.168	≥ 0.5	Pass
		2437	8.168	≥ 0.5	Pass
		2462	7.688	≥ 0.5	Pass
	Chain 1	2412	7.247	≥ 0.5	Pass
		2437	8.128	≥ 0.5	Pass
		2462	8.208	≥ 0.5	Pass
	Chain 2	2412	8.168	≥ 0.5	Pass
		2437	8.168	≥ 0.5	Pass
		2462	7.728	≥ 0.5	Pass
	Chain 3	2412	8.128	≥ 0.5	Pass
		2437	8.128	≥ 0.5	Pass
		2462	8.208	≥ 0.5	Pass
802.11g	Chain 0	2412	16.416	≥ 0.5	Pass
		2437	15.776	≥ 0.5	Pass
		2462	15.816	≥ 0.5	Pass
	Chain 1	2412	16.537	≥ 0.5	Pass
		2437	16.216	≥ 0.5	Pass
		2462	15.776	≥ 0.5	Pass

802.11g	Chain 2	2412	16.537	≥ 0.5	Pass
		2437	16.016	≥ 0.5	Pass
		2462	15.856	≥ 0.5	Pass
	Chain 3	2412	16.537	≥ 0.5	Pass
		2437	15.976	≥ 0.5	Pass
		2462	16.056	≥ 0.5	Pass
802.11n20	Chain 0	2412	17.618	≥ 0.5	Pass
		2437	16.416	≥ 0.5	Pass
		2462	16.056	≥ 0.5	Pass
	Chain 1	2412	17.658	≥ 0.5	Pass
		2437	16.817	≥ 0.5	Pass
		2462	16.577	≥ 0.5	Pass
	Chain 2	2412	17.698	≥ 0.5	Pass
		2437	16.497	≥ 0.5	Pass
		2462	15.936	≥ 0.5	Pass
	Chain 3	2412	17.618	≥ 0.5	Pass
		2437	16.817	≥ 0.5	Pass
		2462	17.057	≥ 0.5	Pass
802.11n40	Chain 0	2422	33.634	≥ 0.5	Pass
		2437	34.595	≥ 0.5	Pass
		2452	34.755	≥ 0.5	Pass
	Chain 1	2422	35.395	≥ 0.5	Pass
		2437	33.474	≥ 0.5	Pass
		2452	33.874	≥ 0.5	Pass
	Chain 2	2422	34.595	≥ 0.5	Pass
		2437	33.554	≥ 0.5	Pass
		2452	31.552	≥ 0.5	Pass
	Chain 3	2422	34.194	≥ 0.5	Pass
		2437	34.194	≥ 0.5	Pass
		2452	34.354	≥ 0.5	Pass

802.11be20_RU_242 /61	Chain 0	2412	17.137	≥ 0.5	Pass
		2437	18.258	≥ 0.5	Pass
		2462	17.858	≥ 0.5	Pass
	Chain 1	2412	16.457	≥ 0.5	Pass
		2437	18.499	≥ 0.5	Pass
		2462	17.898	≥ 0.5	Pass
	Chain 2	2412	17.137	≥ 0.5	Pass
		2437	18.258	≥ 0.5	Pass
		2462	17.938	≥ 0.5	Pass
	Chain 3	2412	18.098	≥ 0.5	Pass
		2437	17.097	≥ 0.5	Pass
		2462	17.498	≥ 0.5	Pass
802.11be40_RU_484 /65	Chain 0	2422	33.714	≥ 0.5	Pass
		2437	37.558	≥ 0.5	Pass
		2452	29.630	≥ 0.5	Pass
	Chain 1	2422	32.673	≥ 0.5	Pass
		2437	37.317	≥ 0.5	Pass
		2452	33.153	≥ 0.5	Pass
	Chain 2	2422	32.593	≥ 0.5	Pass
		2437	37.478	≥ 0.5	Pass
		2452	32.913	≥ 0.5	Pass
	Chain 3	2422	33.794	≥ 0.5	Pass
		2437	37.478	≥ 0.5	Pass
		2452	33.874	≥ 0.5	Pass

99% Occupied Bandwidth

BLE 1M

Channel	99% OBW (MHz)
Low	1.016
Middle	1.016
High	1.016

BLE 2M

Channel	99% OBW (MHz)
Low	2.016
Middle	2.016
High	2.016

2.4G WIFI

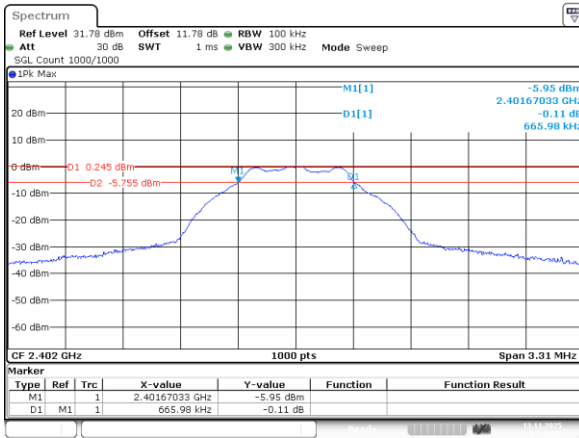
Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11b	Chain 0	2412	12.360
		2437	12.400
		2462	12.440
	Chain 1	2412	12.560
		2437	12.520
		2462	12.360
	Chain 2	2412	12.440
		2437	12.400
		2462	12.520
	Chain 3	2412	12.520
		2437	12.480
		2462	12.400
802.11g	Chain 0	2412	16.280
		2437	16.200
		2462	16.240
	Chain 1	2412	16.360
		2437	16.280
		2462	16.200

802.11g	Chain 2	2412	16.360
		2437	16.240
		2462	16.200
	Chain 3	2412	16.320
		2437	16.200
		2462	16.240
802.11n20	Chain 0	2412	17.520
		2437	17.320
		2462	17.360
	Chain 1	2412	17.480
		2437	17.400
		2462	17.320
	Chain 2	2412	17.520
		2437	17.360
		2462	17.360
	Chain 3	2412	17.480
		2437	17.320
		2462	17.320
802.11n40	Chain 0	2422	35.440
		2437	35.440
		2452	35.520
	Chain 1	2422	35.520
		2437	35.520
		2452	35.440
	Chain 2	2422	35.520
		2437	35.440
		2452	35.440
	Chain 3	2422	35.520
		2437	35.520
		2452	35.520

802.11be20_RU_242/61	Chain 0	2412	18.720
		2437	18.680
		2462	18.680
	Chain 1	2412	18.720
		2437	18.720
		2462	18.720
	Chain 2	2412	18.720
		2437	18.680
		2462	18.680
	Chain 3	2412	18.760
		2437	18.720
		2462	18.720
802.11be40_RU_484/65	Chain 0	2422	37.120
		2437	37.360
		2452	36.960
	Chain 1	2422	37.120
		2437	37.440
		2452	37.120
	Chain 2	2422	37.120
		2437	37.360
		2452	37.040
	Chain 3	2422	37.120
		2437	37.440
		2452	37.120

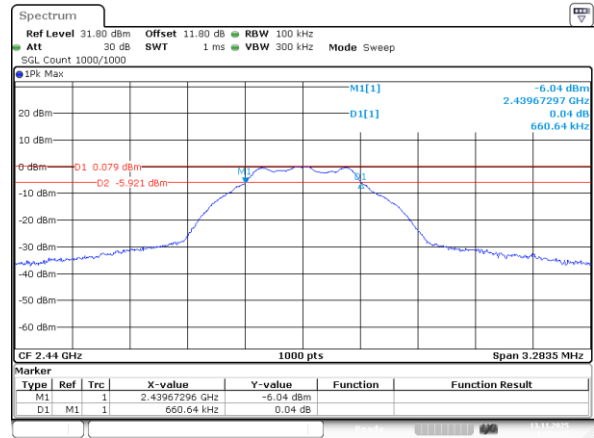
6dB Emission Bandwidth BLE 1M

BLE_1M_Low_Channel



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 13.NOV.2025 13:48:38

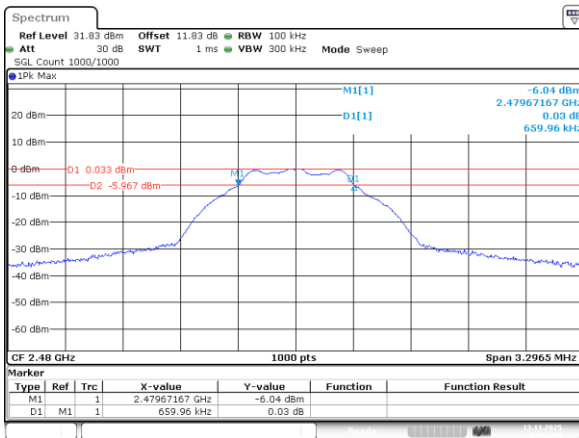
BLE_1M_Middle_Channel



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 13.NOV.2025 13:52:37

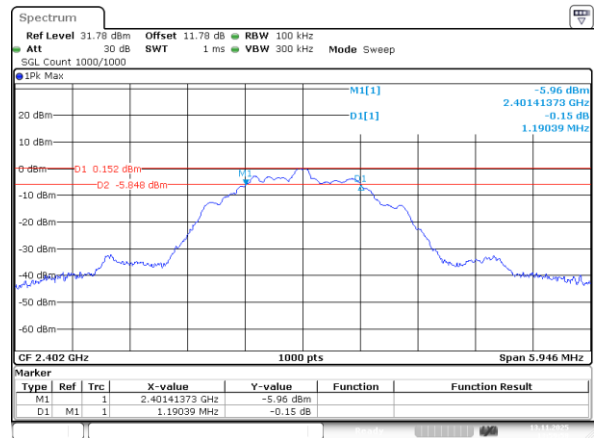
BLE 2M

BLE_1M_High_Channel



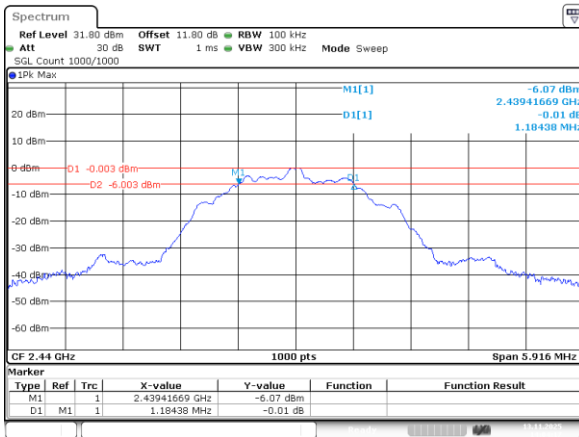
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 13.NOV.2025 13:56:02

BLE_2M_Low_Channel



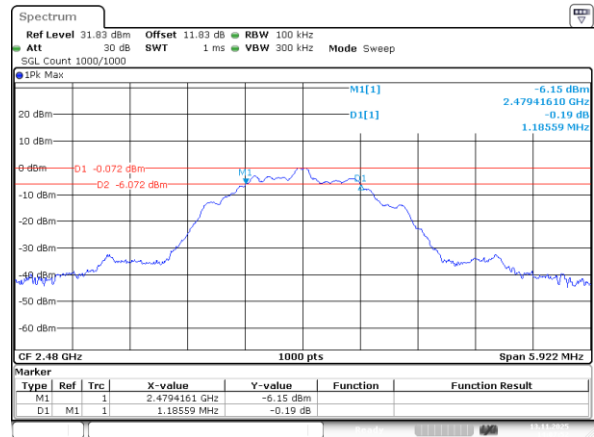
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 13.NOV.2025 13:59:58

BLE_2M_Middle_Channel



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 13.NOV.2025 14:04:16

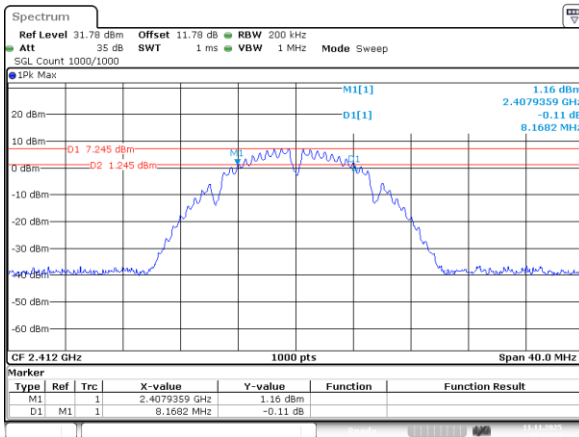
BLE_2M_High_Channel



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 13.NOV.2025 14:07:52

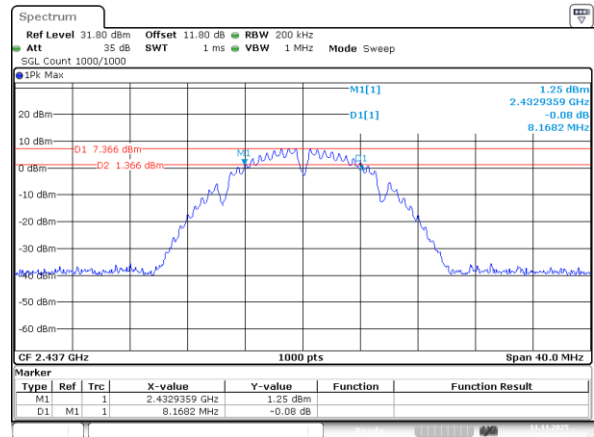
2.4G WIFI Chain 0

802.11b_2412MHz_Chain 0



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 15:33:29

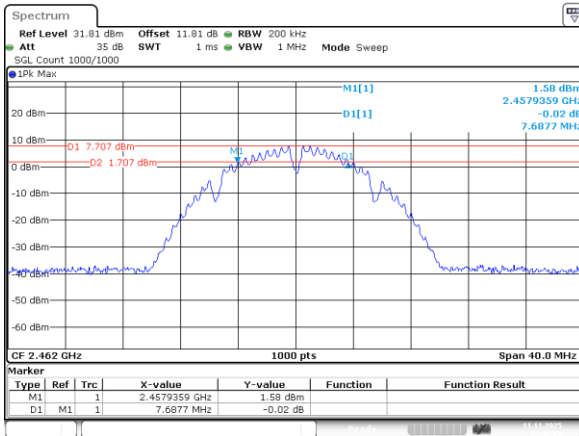
802.11b_2437MHz_Chain 0



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 15:39:13

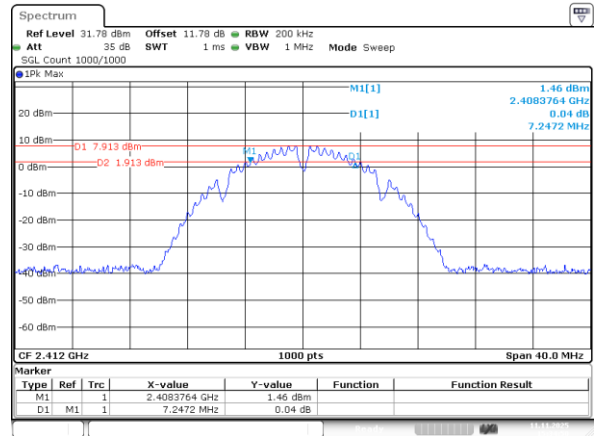
Chain 1

802.11b_2462MHz_Chain 0



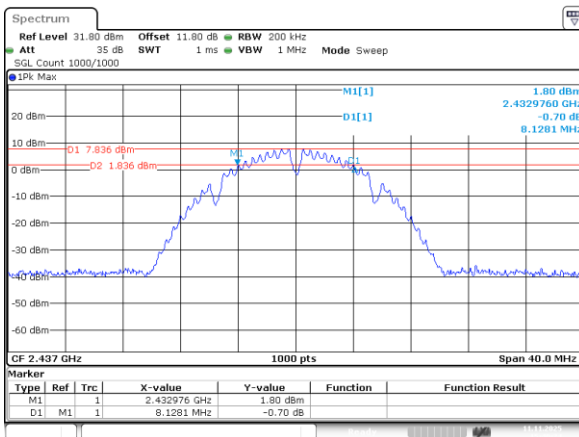
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 15:46:01

802.11b_2412MHz_Chain 1



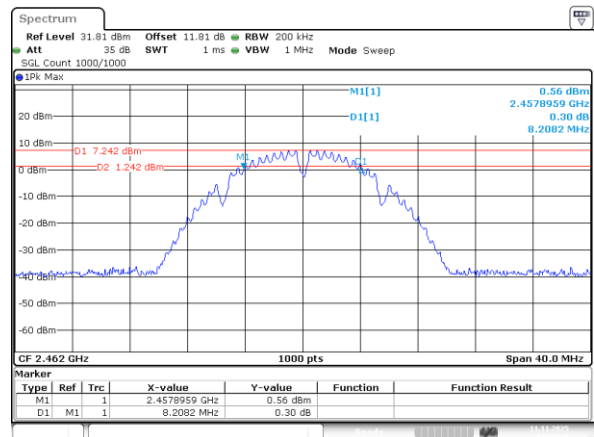
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 15:34:50

802.11b_2437MHz_Chain 1



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 15:40:24

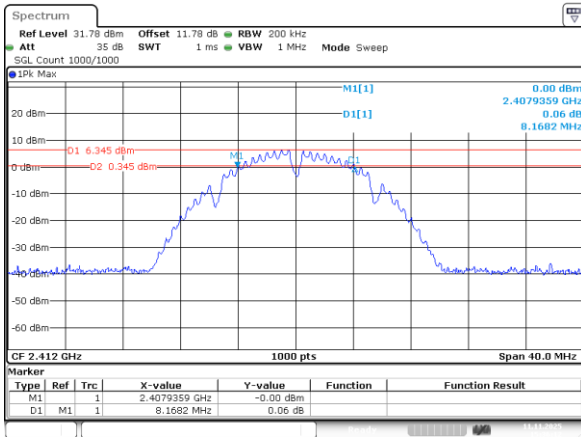
802.11b_2462MHz_Chain 1



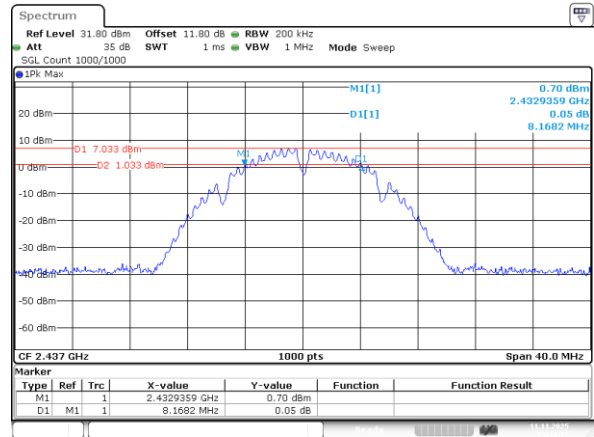
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 15:47:18

Chain 2

802.11b_2412MHz_Chain 2

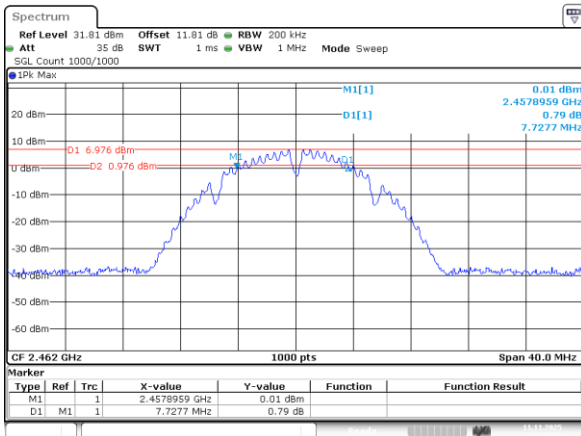


802.11b_2437MHz_Chain 2

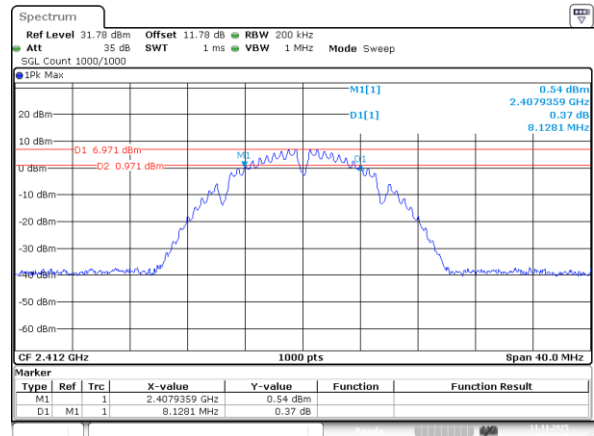


Chain 3

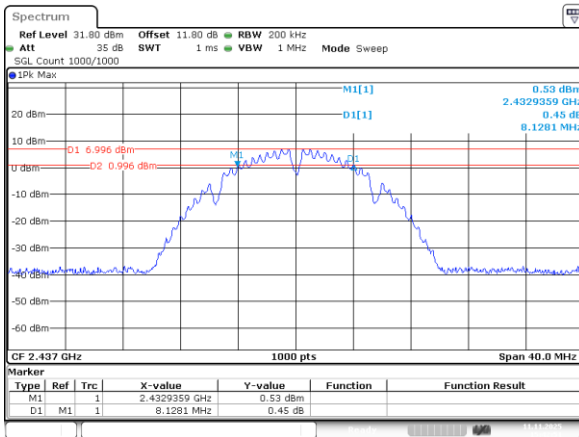
802.11b_2462MHz_Chain 2



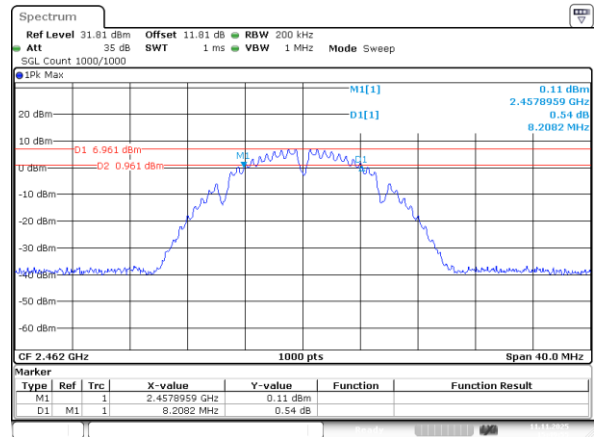
802.11b_2412MHz_Chain 3



802.11b_2437MHz_Chain 3

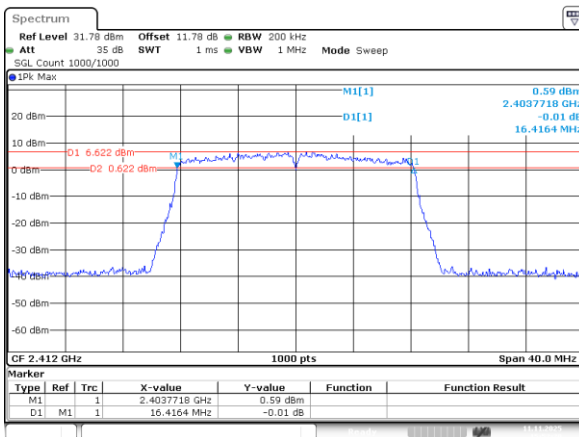


802.11b_2462MHz_Chain 3

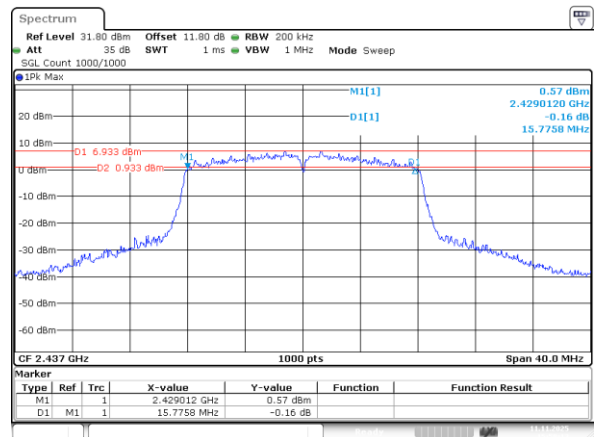


Chain 0

802.11g_2412MHz_Chain 0

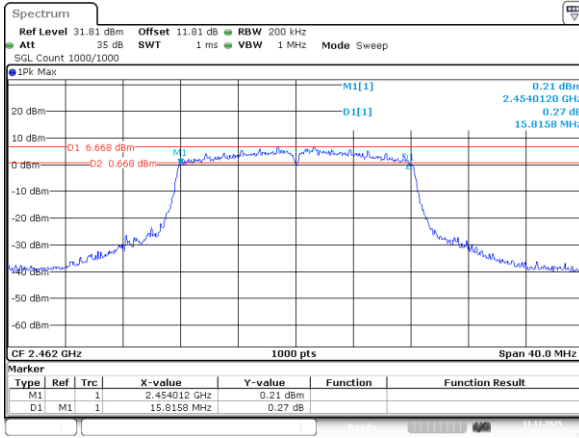


802.11g_2437MHz_Chain 0



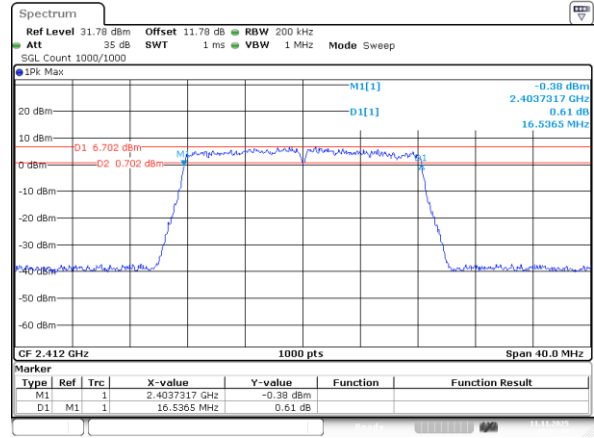
Chain 1

802.11g_2462MHz_Chain 0



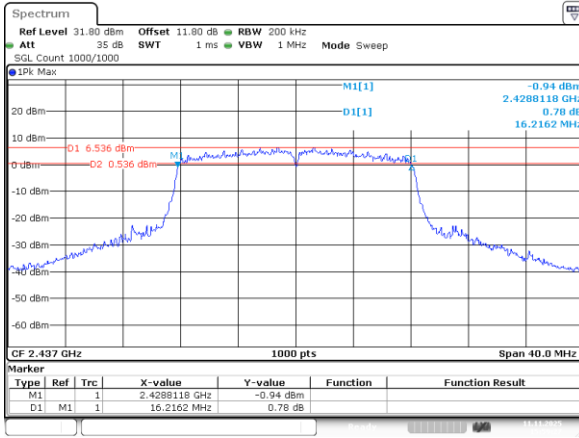
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
 Date: 11.NOV.2025 16:10:22

802.11g_2412MHz_Chain 1



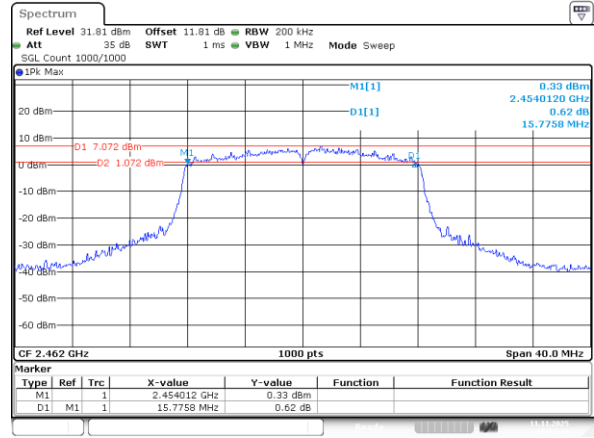
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
 Date: 11.NOV.2025 15:53:44

802.11g_2437MHz_Chain 1



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
 Date: 11.NOV.2025 15:59:26

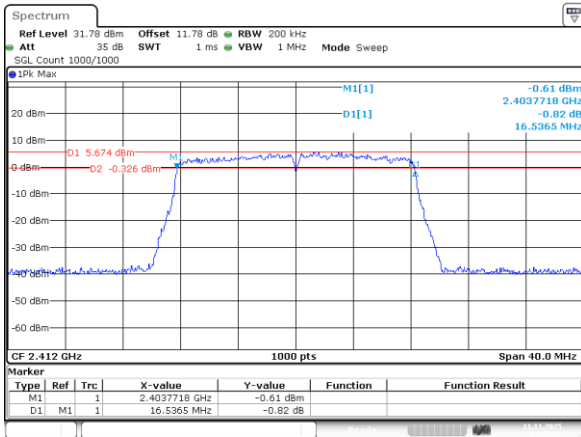
802.11g_2462MHz_Chain 1



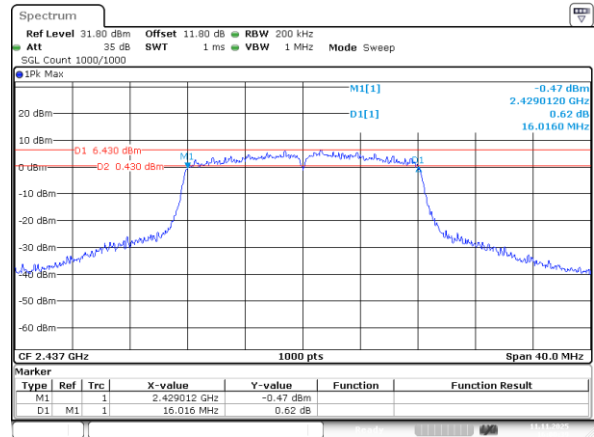
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
 Date: 11.NOV.2025 16:11:40

Chain 2

802.11g_2412MHz_Chain 2

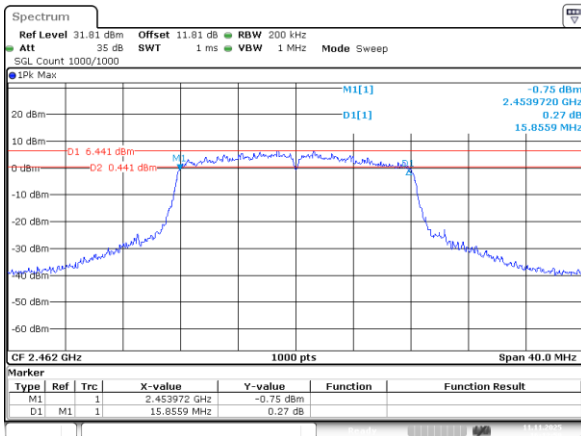


802.11g_2437MHz_Chain 2

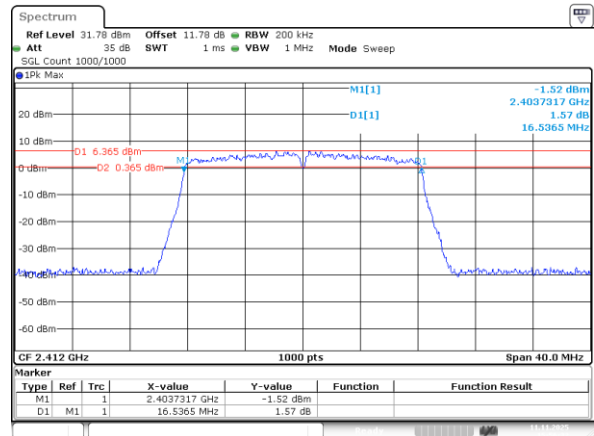


Chain 3

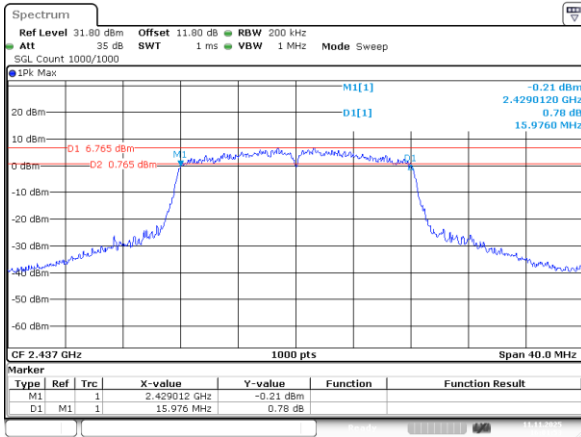
802.11g_2462MHz_Chain 2



802.11g_2412MHz_Chain 3

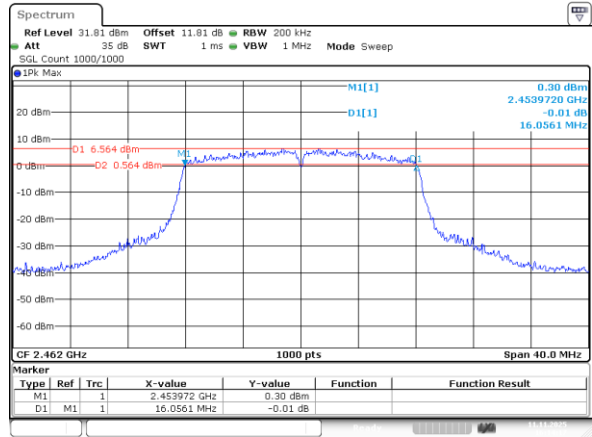


802.11g_2437MHz_Chain 3



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:01:53

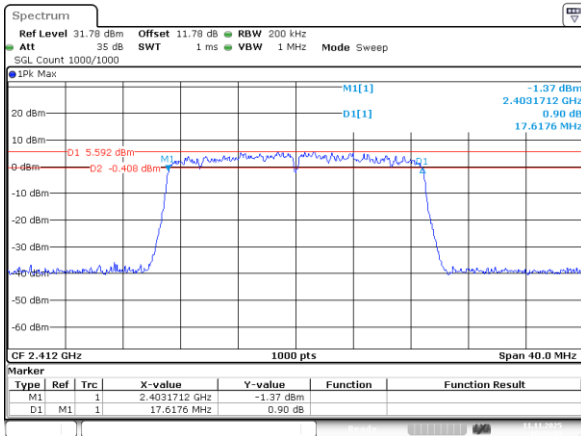
802.11g_2462MHz_Chain 3



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:14:17

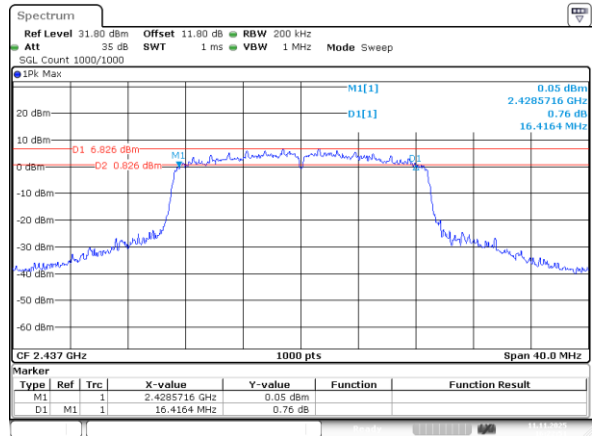
Chain 0

802.11n20_2412MHz_Chain 0



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:16:15

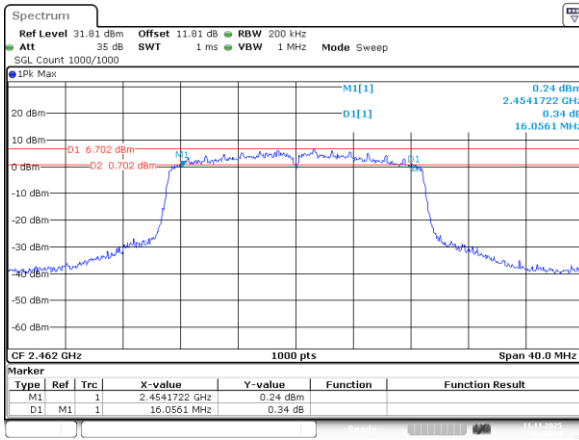
802.11n20_2437MHz_Chain 0



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:22:51

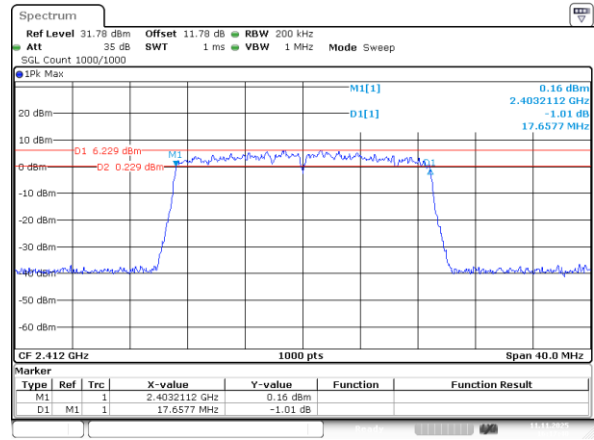
Chain 1

802.11n20_2462MHz_Chain 0



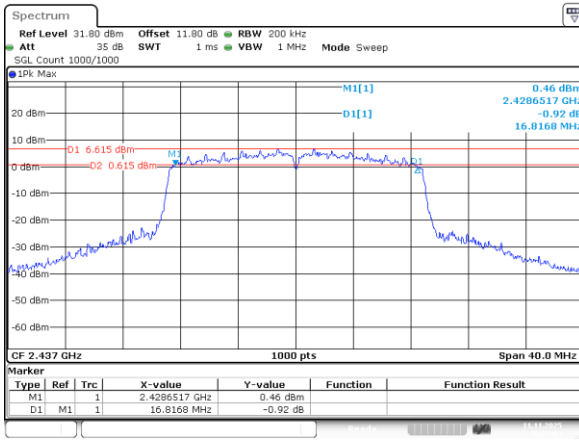
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:28:19

802.11n20_2412MHz_Chain 1



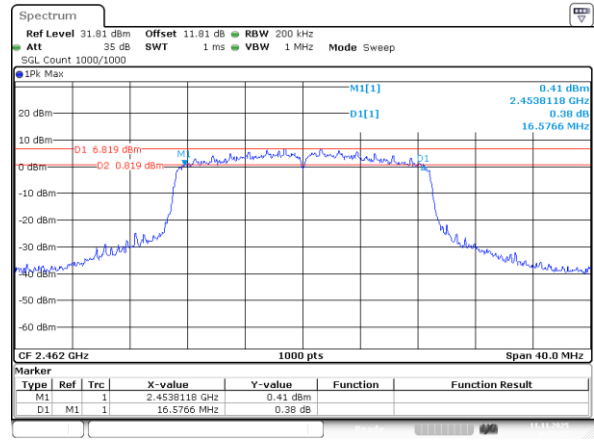
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:17:40

802.11n20_2437MHz_Chain 1



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:24:03

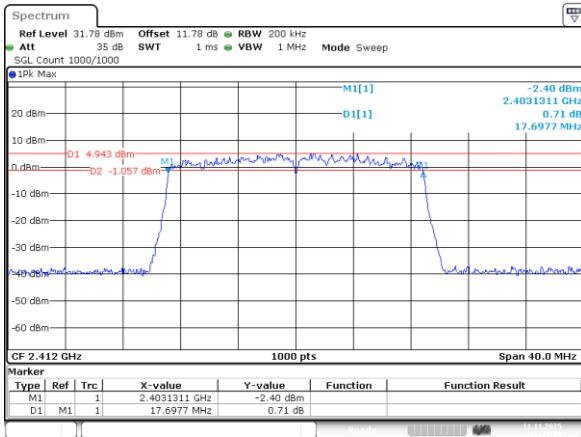
802.11n20_2462MHz_Chain 1



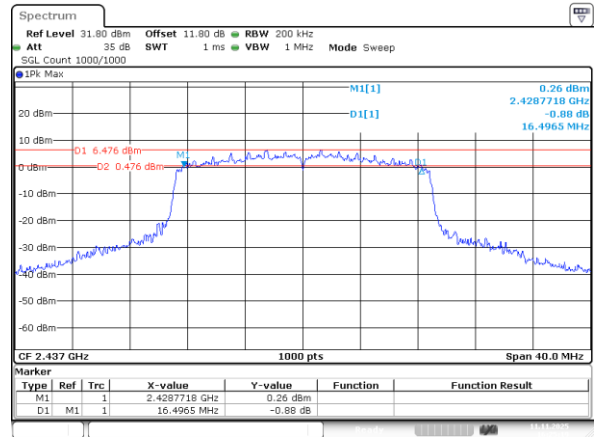
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:29:37

Chain 2

802.11n20_2412MHz_Chain 2

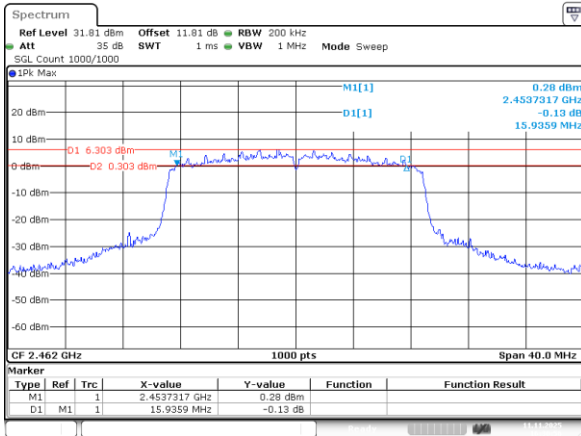


802.11n20_2437MHz_Chain 2

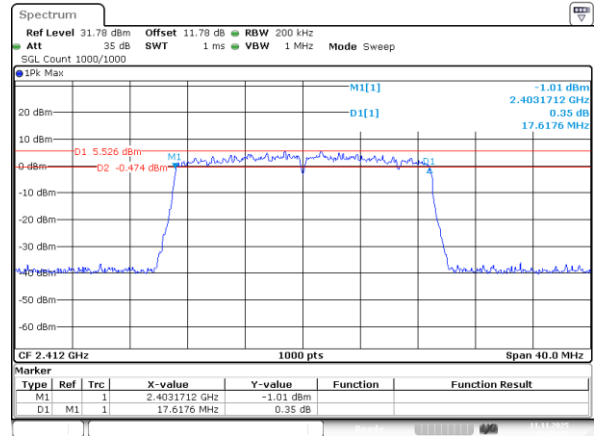


Chain 3

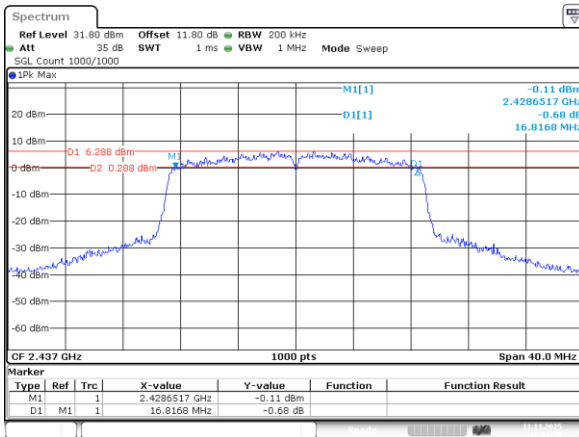
802.11n20_2462MHz_Chain 2



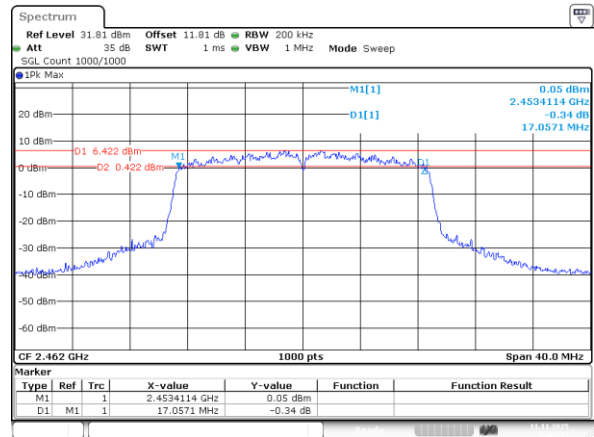
802.11n20_2412MHz_Chain 3



802.11n20_2437MHz_Chain 3

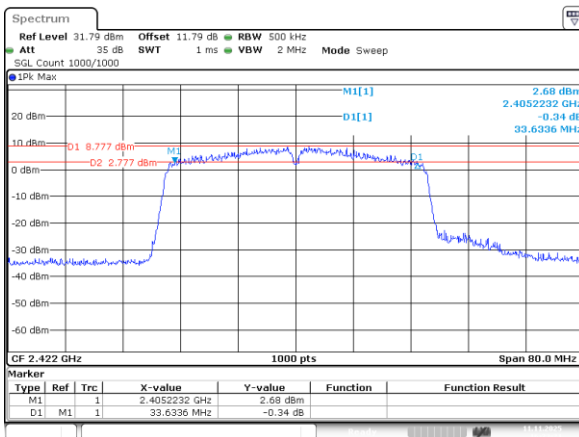


802.11n20_2462MHz_Chain 3

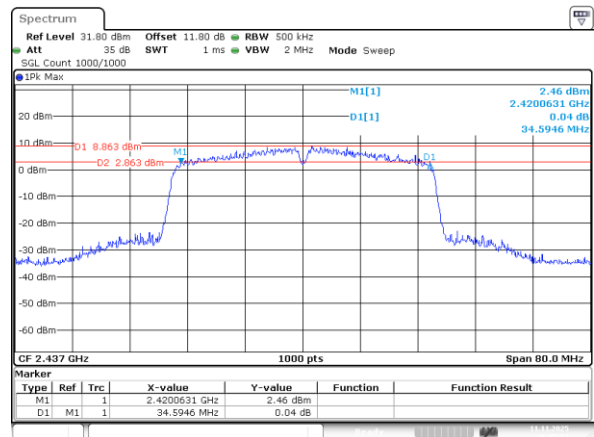


Chain 0

802.11n40_2422MHz_Chain 0

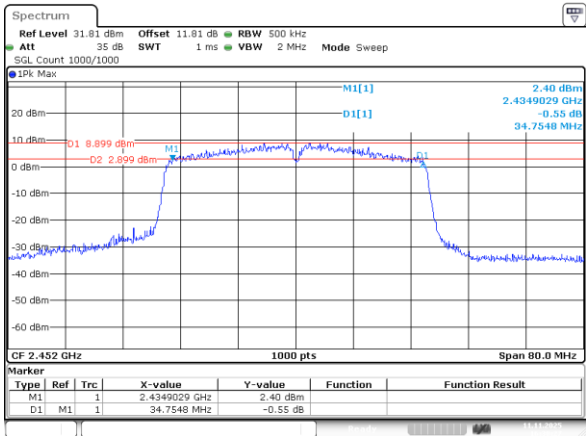


802.11n40_2437MHz_Chain 0



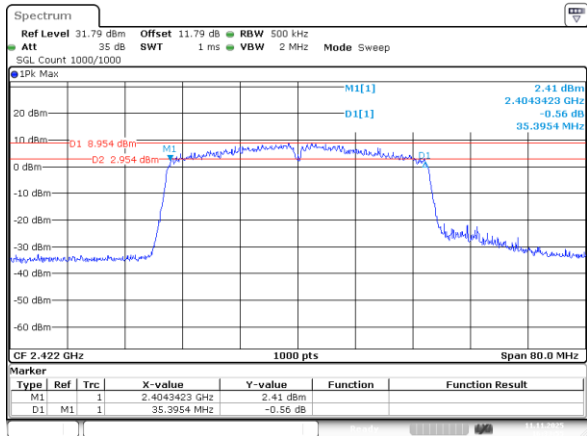
Chain 1

802.11n40_2452MHz_Chain 0



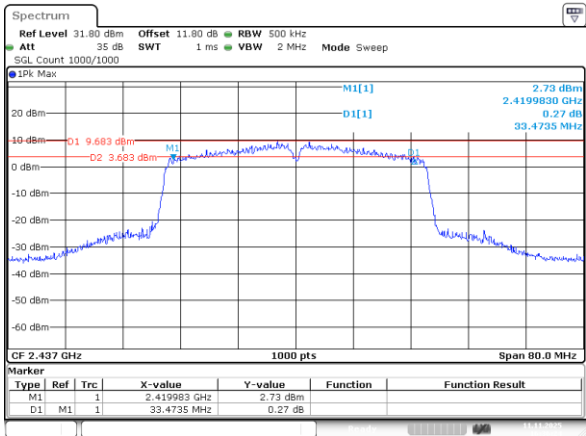
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:38:26

802.11n40_2422MHz_Chain 1



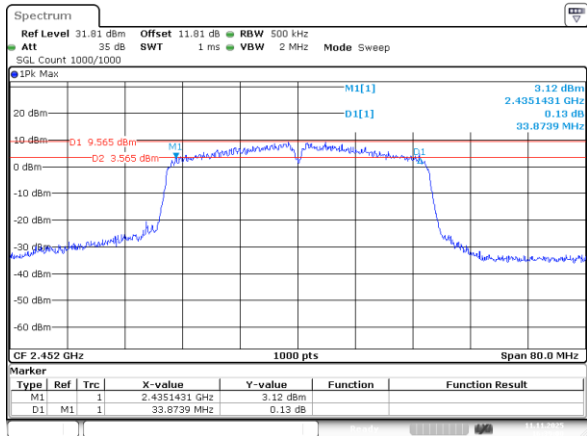
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:33:55

802.11n40_2437MHz_Chain 1



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:36:24

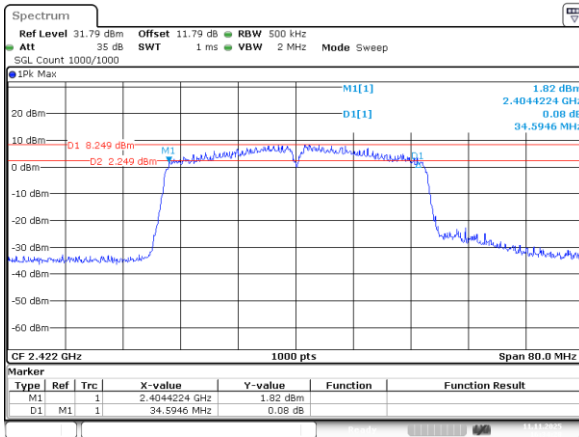
802.11n40_2452MHz_Chain 1



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:39:00

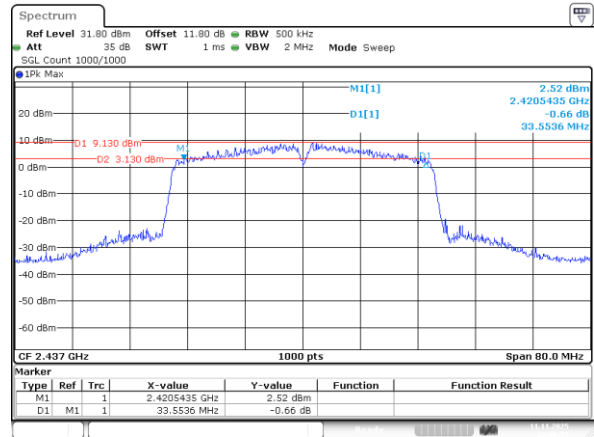
Chain 2

802.11n40_2422MHz_Chain 2



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:13:129

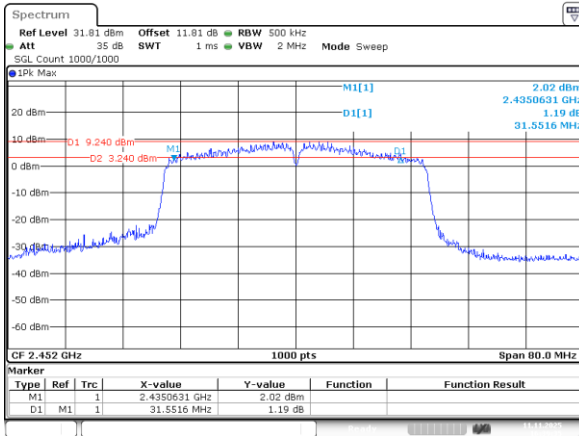
802.11n40_2437MHz_Chain 2



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:13:56

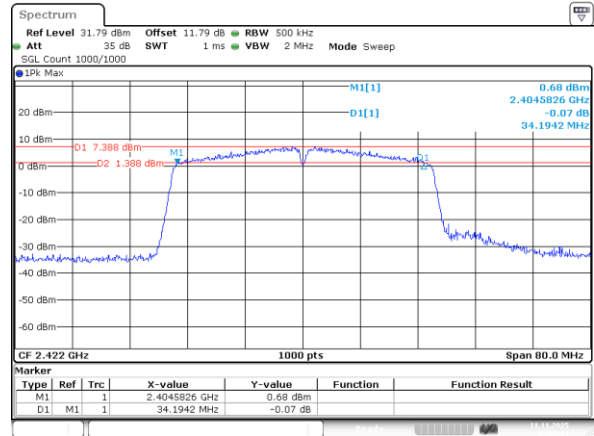
Chain 3

802.11n40_2452MHz_Chain 2



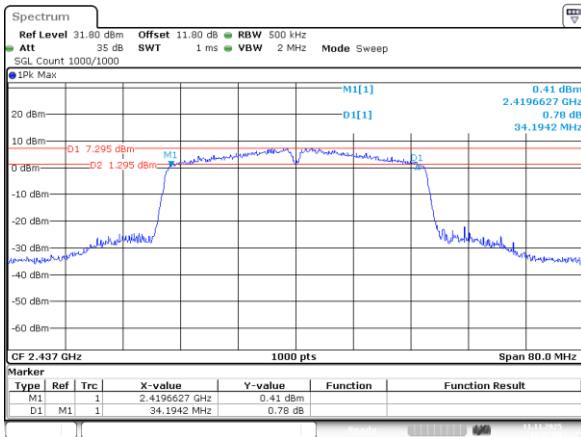
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:13:134

802.11n40_2422MHz_Chain 3



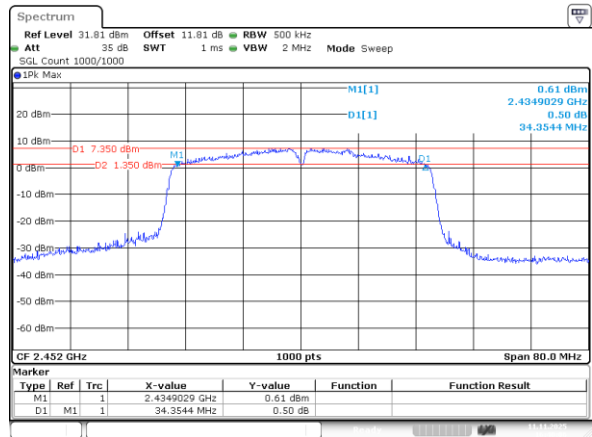
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:13:03

802.11n40_2437MHz_Chain 3



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:37:30

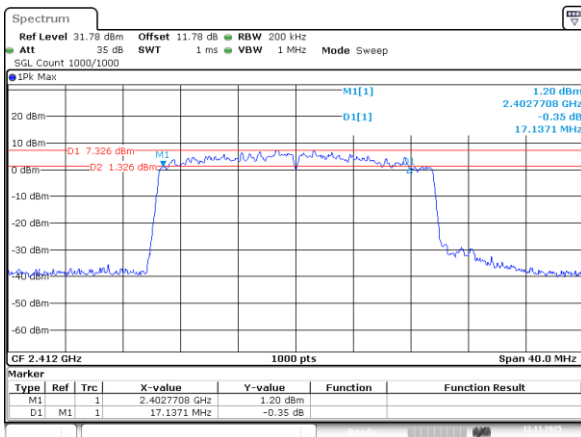
802.11n40_2452MHz_Chain 3



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 11.NOV.2025 16:40:06

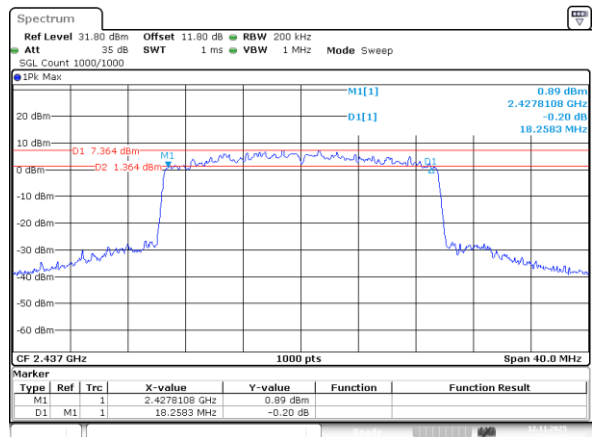
Chain 0

802.11be20_2412MHz_RU_242/61_Chain 0



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 20:59:40

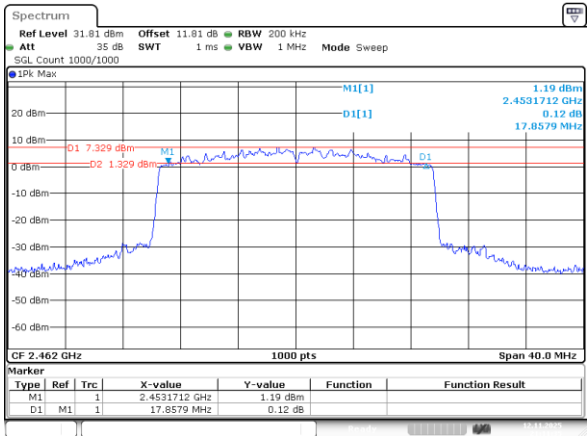
802.11be20_2437MHz_RU_242/61_Chain 0



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 21:06:13

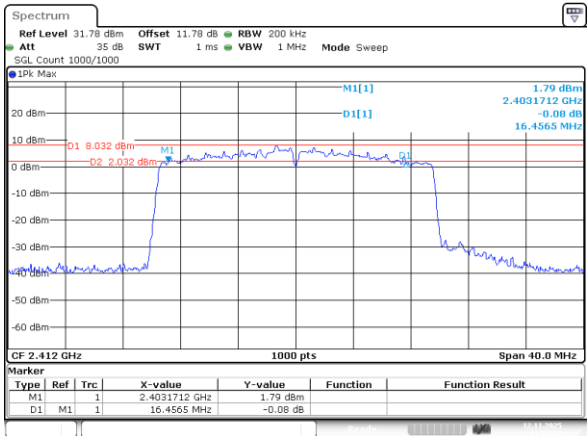
Chain 1

802.11be20_2462MHz_RU_242/61_Chain 0



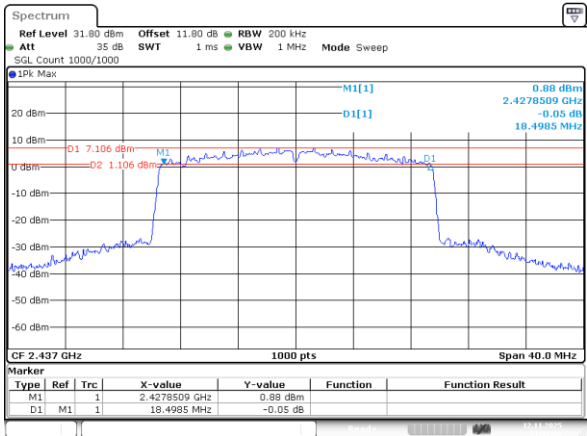
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 21:11:35

802.11be20_2412MHz_RU_242/61_Chain 1



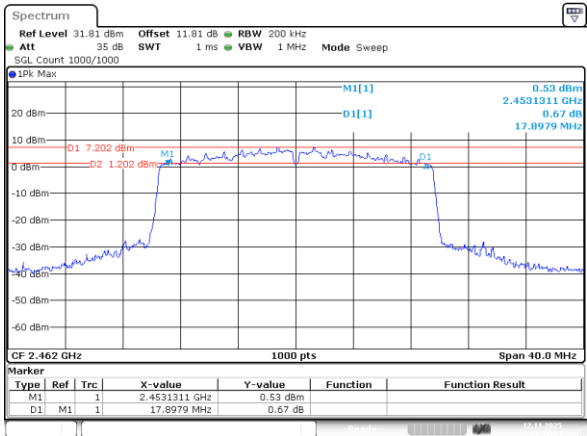
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 21:01:03

802.11be20_2437MHz_RU_242/61_Chain 1



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 21:07:26

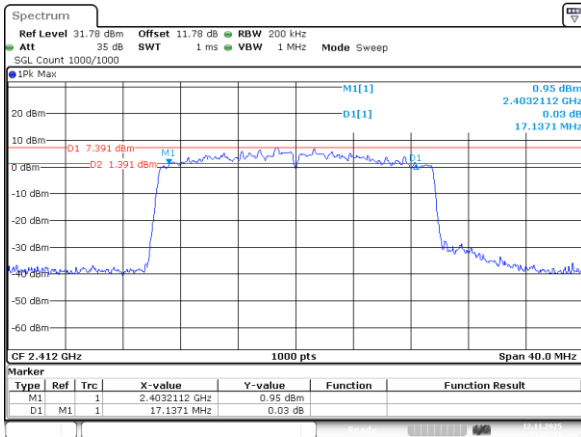
802.11be20_2462MHz_RU_242/61_Chain 1



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 21:12:54

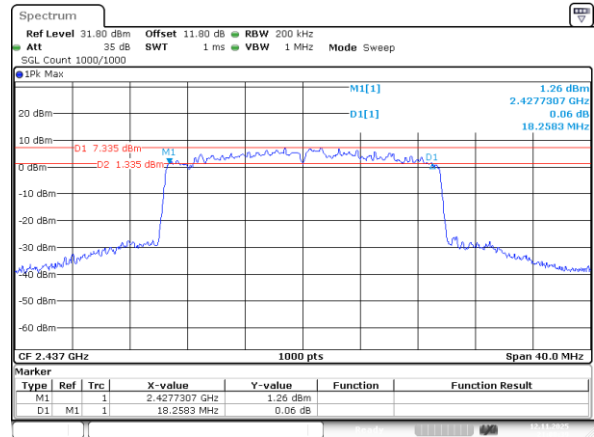
Chain 2

802.11be20_2412MHz_RU_242/61_Chain 2



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 21:02:27

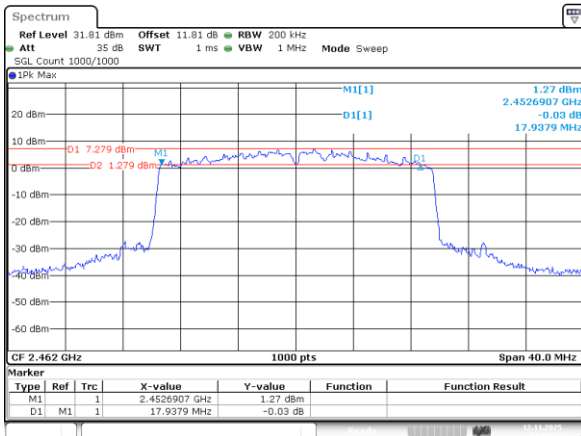
802.11be20_2437MHz_RU_242/61_Chain 2



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 21:08:39

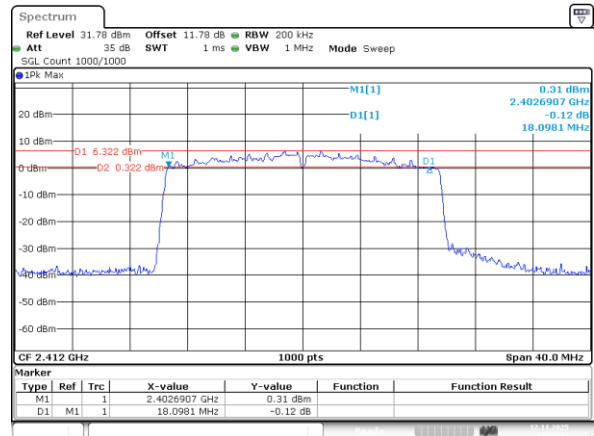
Chain 3

802.11be20_2462MHz_RU_242/61_Chain 2



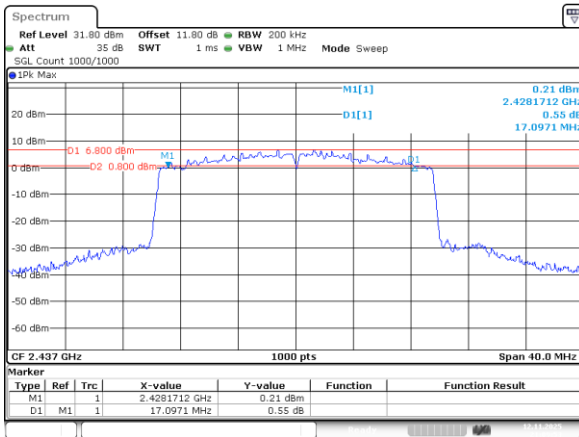
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 21:14:12

802.11be20_2412MHz_RU_242/61_Chain 3



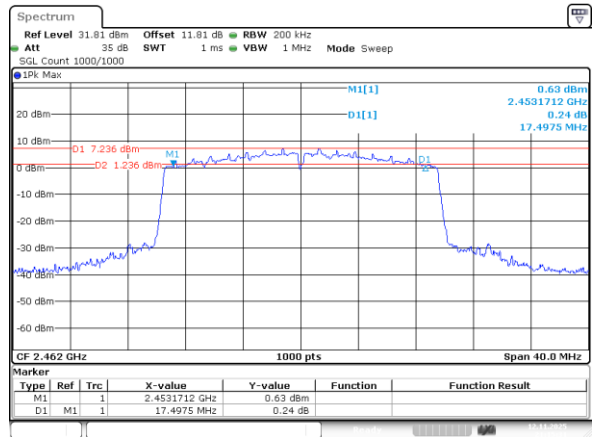
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 21:03:52

802.11be20_2437MHz_RU_242/61_Chain 3



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 21:09:52

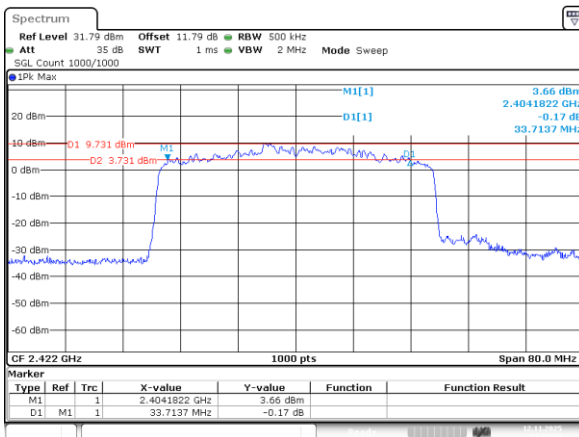
802.11be20_2462MHz_RU_242/61_Chain 3



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 21:15:31

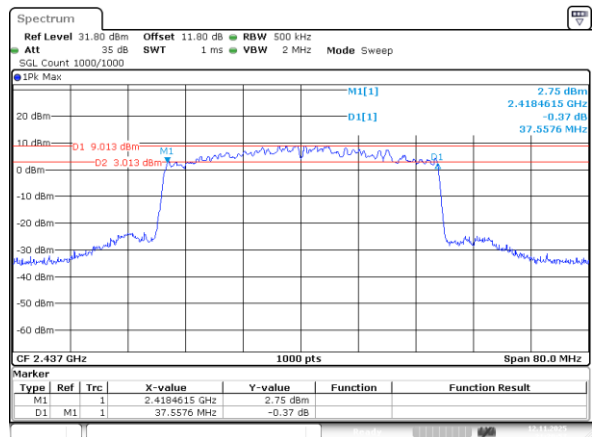
Chain 0

802.11be40_2422MHz_RU_484/65_Chain 0



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 21:17:47

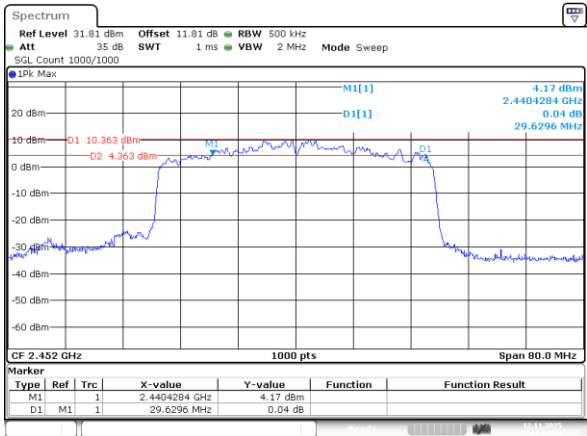
802.11be40_2437MHz_RU_484/65_Chain 0



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 21:20:58

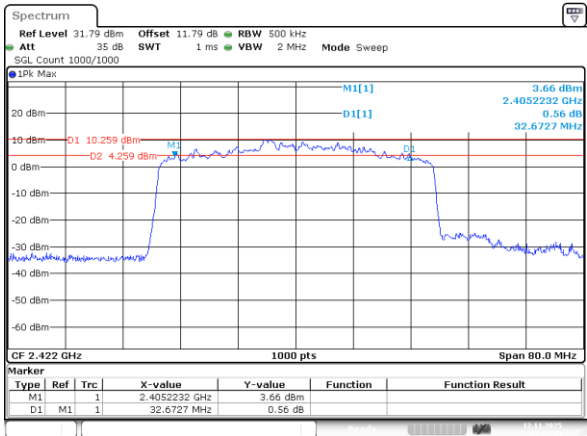
Chain 1

802.11be40_2452MHz_RU_484/65_Chain 0



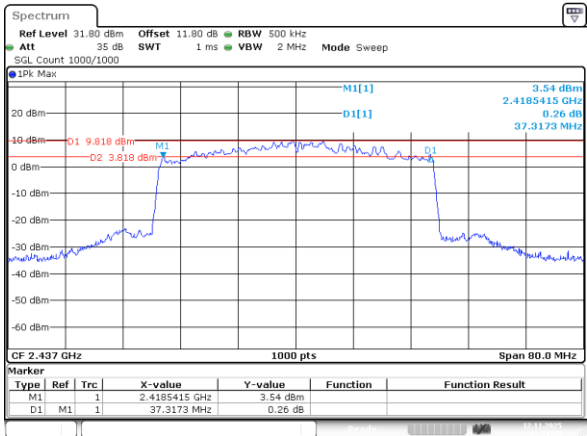
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 21:23:28

802.11be40_2422MHz_RU_484/65_Chain 1



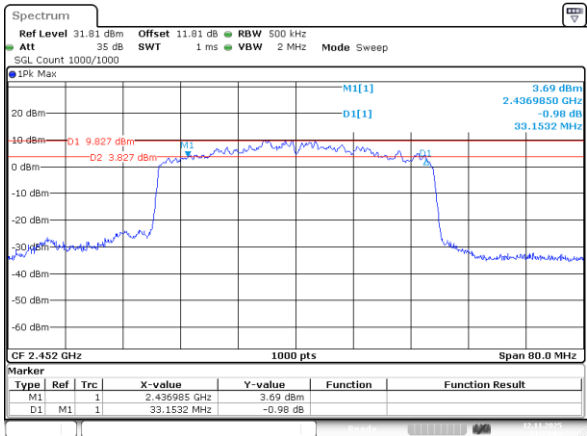
ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 21:18:19

802.11be40_2437MHz_RU_484/65_Chain 1



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 21:21:30

802.11be40_2452MHz_RU_484/65_Chain 1



ProjectNo.:2509T61338E-RF Tester:Gavy Kim
Date: 12.NOV.2025 21:24:02