

Annex C

WLAN 2.4GHz Test Result

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1. Power Spectral Density Test Result

Product	ASSESS POINT	Test Engineer	Eric Lin
Test Site	SR2	Test Date	2021/08/15
Model No.	APEX0585		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 PSD (dBm/10kHz)	Ant 1 PSD (dBm/10kHz)	Ant 2 PSD (dBm/10kHz)	Ant 3 PSD (dBm/10kHz)	Duty Cycle (%)	Total PSD (dBm/10kHz)	Limit (dBm/3kHz)	Result
802.11b	1Mbps	01	2412	-2.96	-2.33	-3.79	-2.81	61.71	5.18	≤ 5.29	Pass
802.11b	1Mbps	06	2437	-3.37	-3.44	-4.02	-2.96	61.71	4.69	≤ 5.29	Pass
802.11b	1Mbps	11	2462	-4.40	-4.82	-4.49	-4.05	61.71	3.69	≤ 5.29	Pass
802.11g	6Mbps	01	2412	-7.63	-7.69	-7.66	-7.36	92.30	-1.21	≤ 5.29	Pass
802.11g	6Mbps	06	2437	-5.48	-5.76	-5.28	-4.83	92.30	1.04	≤ 5.29	Pass
802.11g	6Mbps	11	2462	-10.62	-10.68	-10.58	-10.08	92.30	-4.11	≤ 5.29	Pass
802.11n-HT20	MCS0	01	2412	-7.43	-7.72	-7.37	-7.15	86.02	-0.74	≤ 5.29	Pass
802.11n-HT20	MCS0	06	2437	-6.17	-6.41	-6.20	-5.76	86.02	0.55	≤ 5.29	Pass
802.11n-HT20	MCS0	11	2462	-12.45	-12.70	-12.40	-11.94	86.02	-5.69	≤ 5.29	Pass
802.11n-HT40	MCS0	03	2422	-14.96	-15.07	-14.97	-14.73	86.23	-8.27	≤ 5.29	Pass
802.11n-HT40	MCS0	06	2437	-9.00	-9.63	-8.97	-9.23	86.23	-2.54	≤ 5.29	Pass
802.11n-HT40	MCS0	09	2452	-19.74	-19.58	-19.34	-19.30	86.23	-12.82	≤ 5.29	Pass
802.11ax-HE20	MCS0	01	2412	-8.83	-8.81	-8.87	-8.16	94.50	-2.39	≤ 5.29	Pass
802.11ax-HE20	MCS0	06	2437	-7.56	-7.98	-7.60	-6.81	94.50	-1.20	≤ 5.29	Pass
802.11ax-HE20	MCS0	11	2462	-14.54	-14.98	-14.40	-13.80	94.50	-8.14	≤ 5.29	Pass
802.11ax-HE40	MCS0	03	2422	-15.77	-15.80	-15.72	-15.47	92.98	-9.35	≤ 5.29	Pass
802.11ax-HE40	MCS0	06	2437	-10.05	-10.60	-10.06	-9.94	92.98	-3.82	≤ 5.29	Pass
802.11ax-HE40	MCS0	09	2452	-20.14	-19.94	-20.24	-19.71	92.98	-13.67	≤ 5.29	Pass

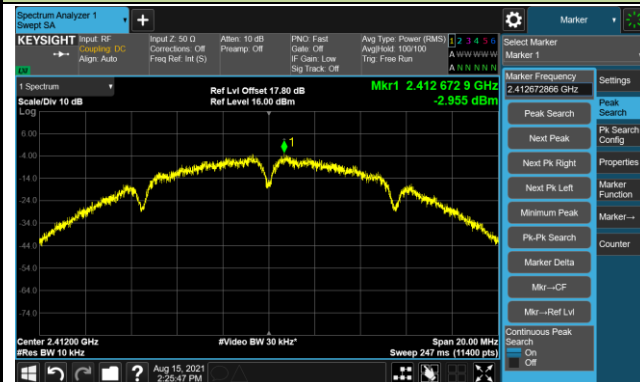
Note 1: Total AVGPDS = $10 \cdot \log \{ 10^{(\text{Ant 0 AVGPDS}/10)} + 10^{(\text{Ant 1 AVGPDS}/10)} + 10^{(\text{Ant 2 AVGPDS}/10)} + 10^{(\text{Ant 3 AVGPDS}/10)} \} + 10 \cdot \log(1/\text{Duty Cycle})$.

Note 2: Limit (dBm/3kHz) = 8 dBm/3kHz – (Max antenna gain 8.71 dBi – 6.0 dBi) = 5.29 dBm/3kHz.

Note 3: Total AVGPDS (dBm / 10kHz) << Limit (dBm / 3kHz), so there is no necessary to conversion unit.

802.11b AVGPDS - Ant 0

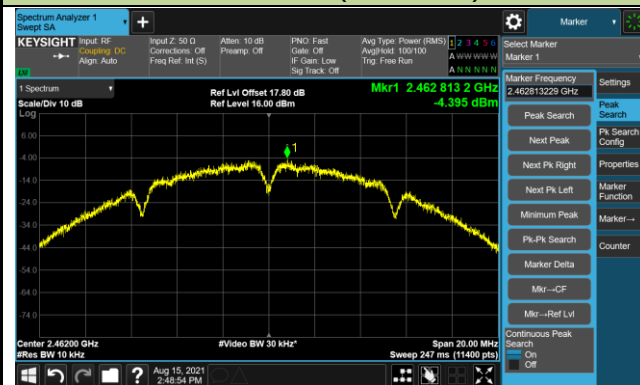
Channel 01 (2412MHz)



Channel 06 (2437MHz)

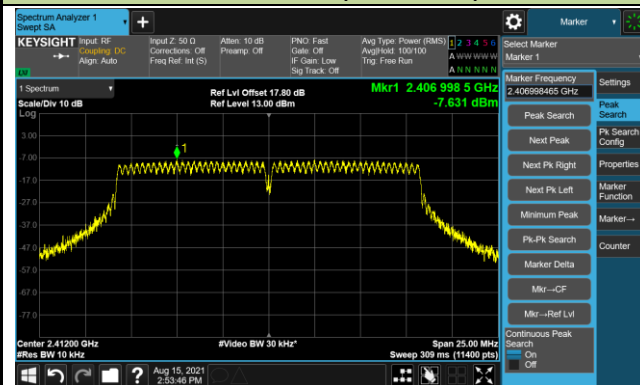


Channel 11 (2462MHz)

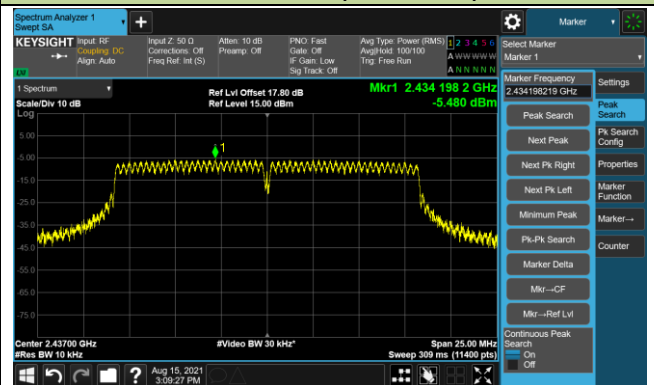


802.11g AVGPDS - Ant 0

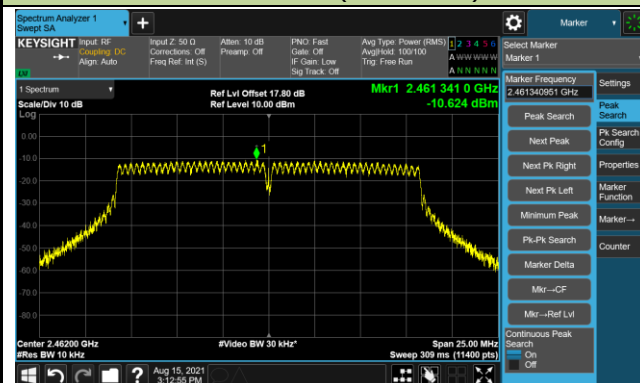
Channel 01 (2412MHz)



Channel 06 (2437MHz)

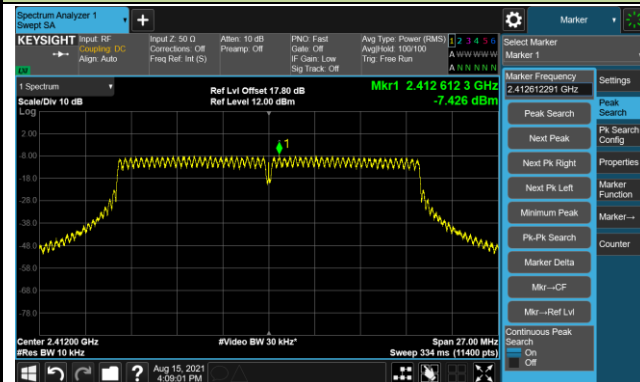


Channel 11 (2462MHz)

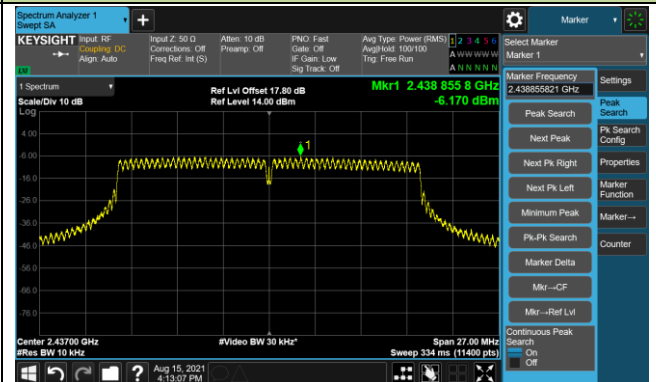


802.11n-HT20 AVGPSPD - Ant 0

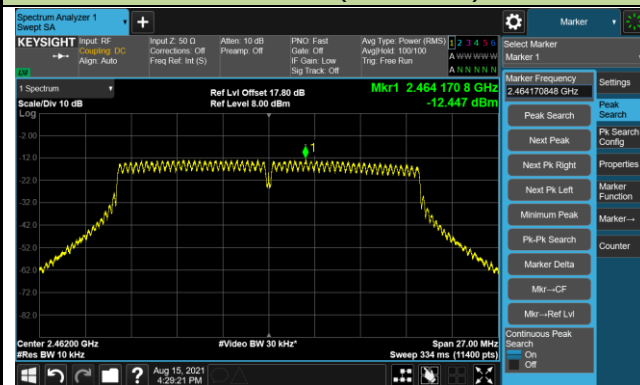
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Channel 06 (2437MHz)

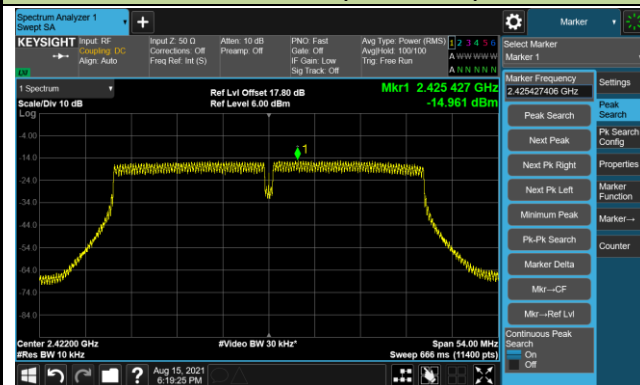


Channel 11 (2462MHz)

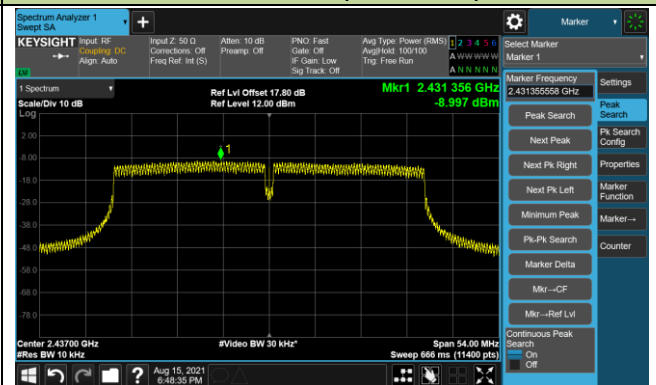


802.11n-HT40 AVGPSPD - Ant 0

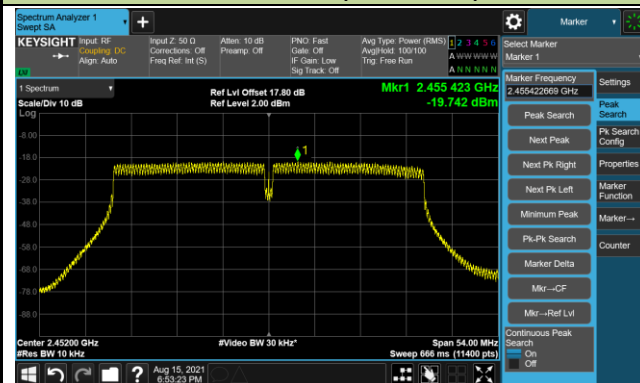
Channel 03 (2422MHz)



Channel 06 (2437MHz)

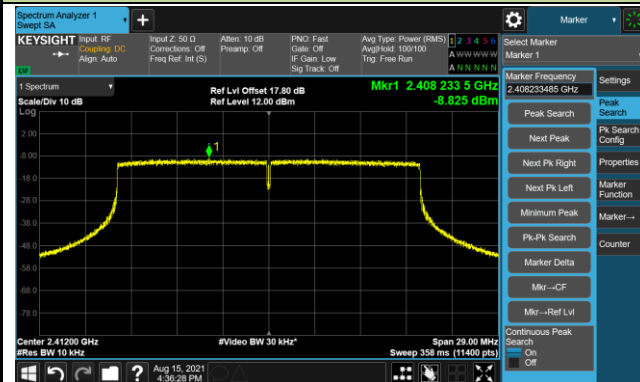


Channel 09 (2452MHz)



802.11ax-HE20 AVGPDS- Ant 0

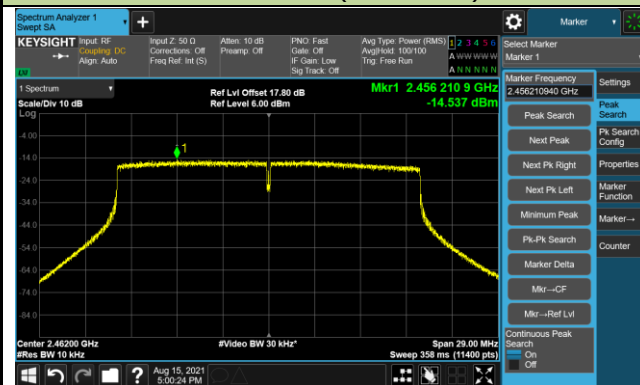
Channel 01 (2412MHz)



Channel 06 (2437MHz)



Channel 11 (2462MHz)



802.11ax-HE40 AVGPDS - Ant 0

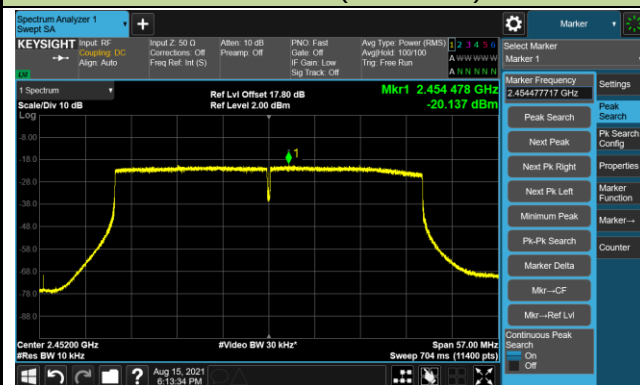
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Channel 06 (2437MHz)

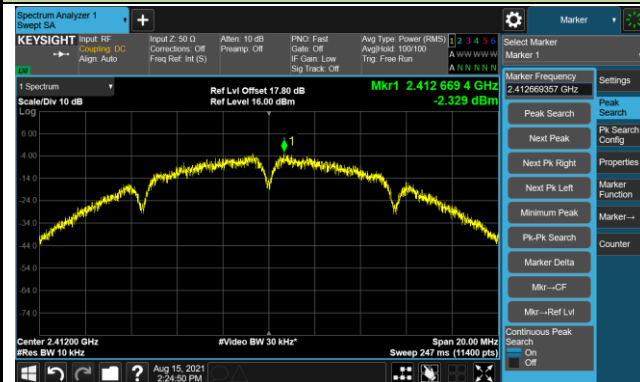


Channel 09 (2452MHz)



802.11b AVGPDS - Ant 1

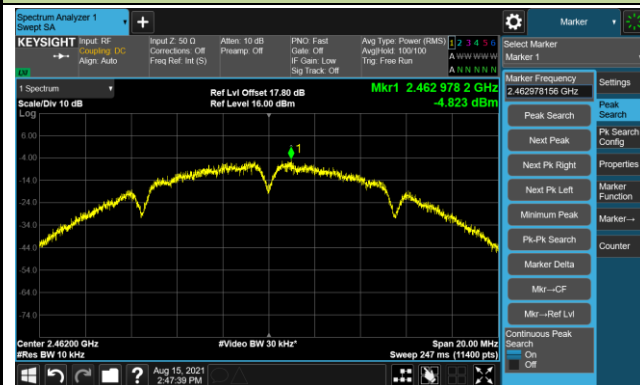
Channel 01 (2412MHz)



Channel 06 (2437MHz)

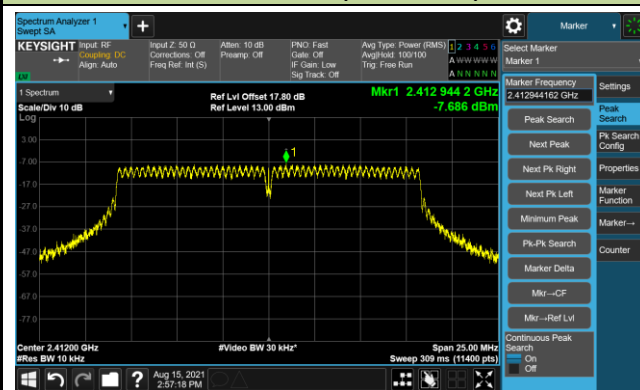


Channel 11 (2462MHz)

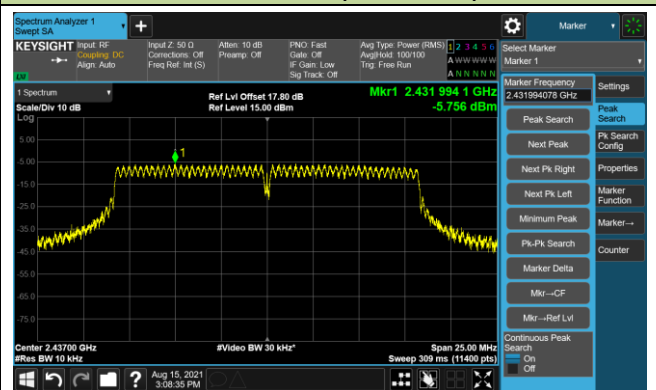


802.11g AVGPDS - Ant 1

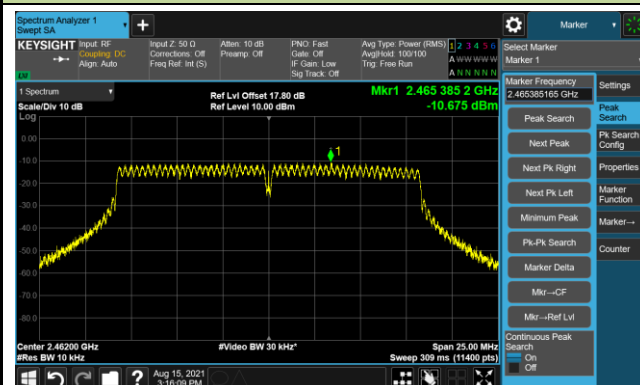
Channel 01 (2412MHz)



Channel 06 (2437MHz)

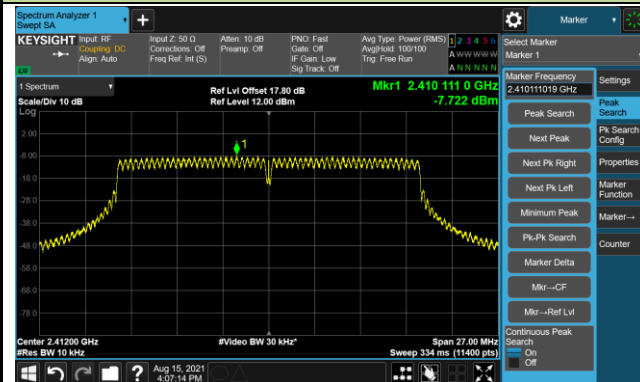


Channel 11 (2462MHz)

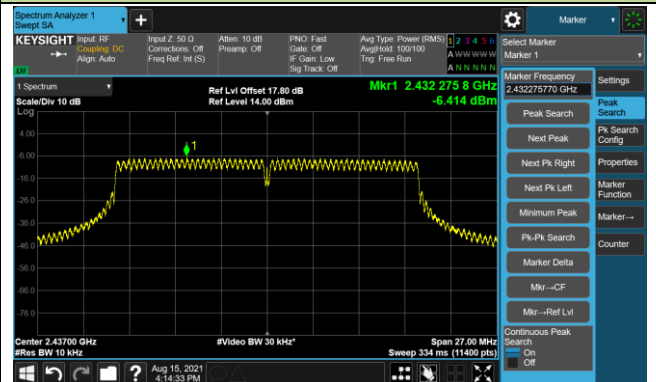


802.11n-HT20 AVGPDS - Ant 1

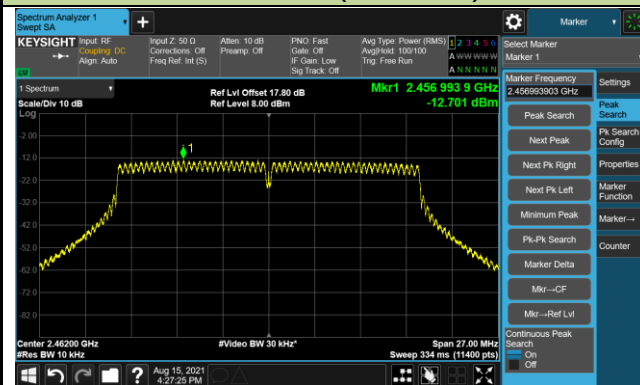
Channel 01 (2412MHz)



Channel 06 (2437MHz)

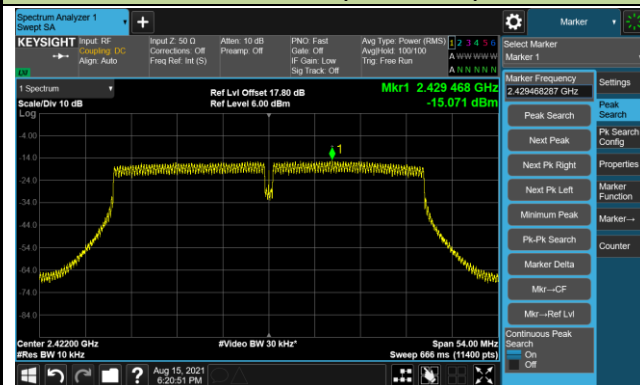


Channel 11 (2462MHz)

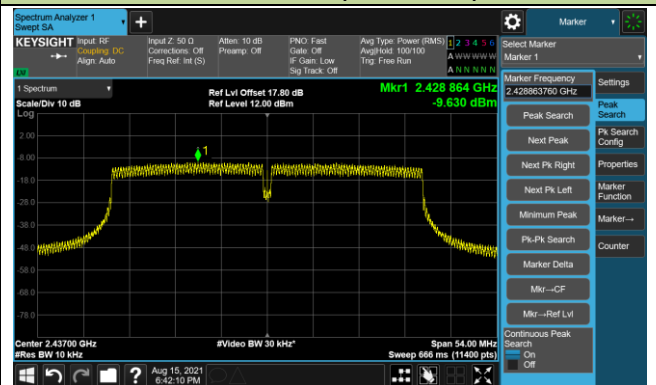


802.11n-HT40 AVGPDS - Ant 1

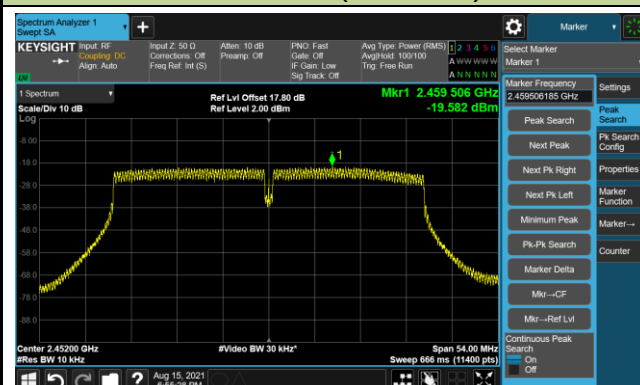
Channel 03 (2422MHz)



Channel 06 (2437MHz)

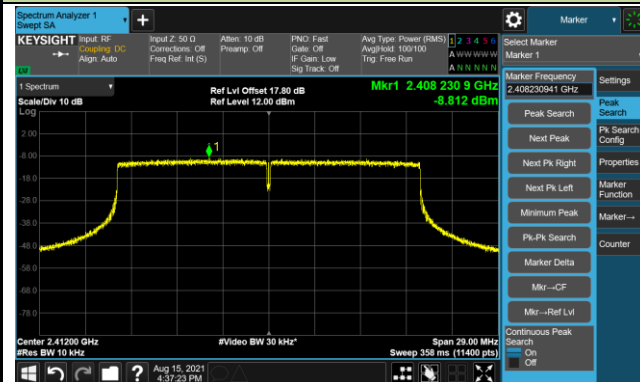


Channel 09 (2452MHz)



802.11ax-HE20 AVGPDS - Ant 1

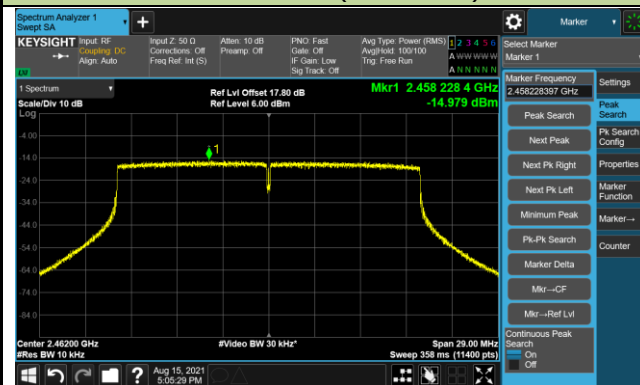
Channel 01 (2412MHz)



Channel 06 (2437MHz)

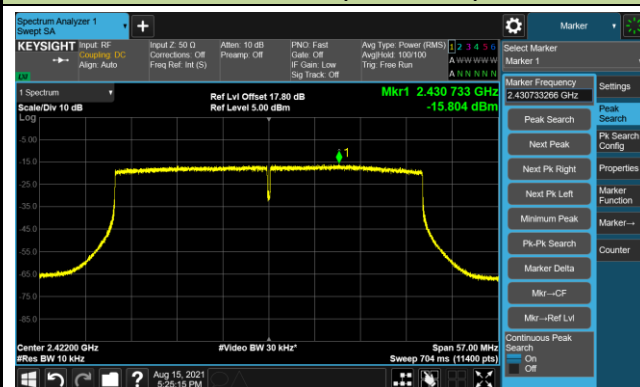


Channel 11 (2462MHz)



802.11ax-HE40 AVGPDS - Ant 1

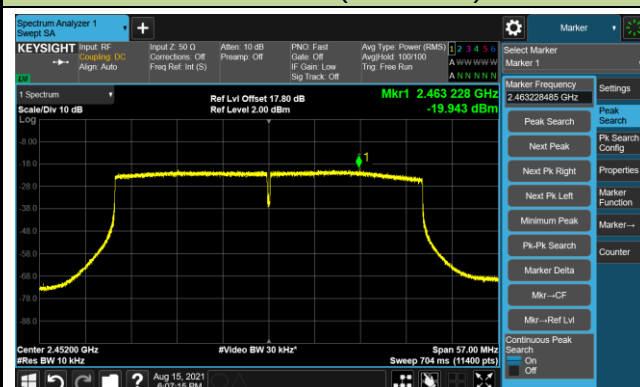
Channel 03 (2422MHz)



Channel 06 (2437MHz)

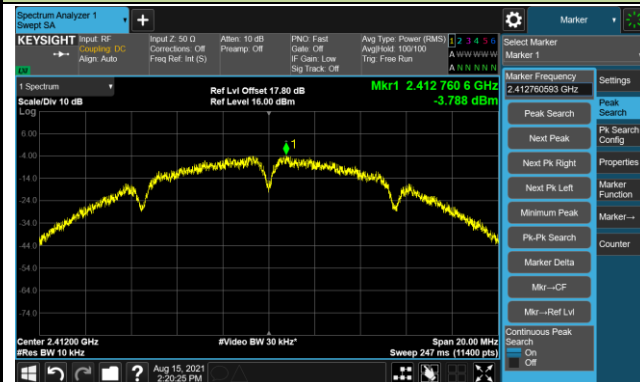


Channel 09 (2452MHz)



802.11b AVGPDS - Ant 2

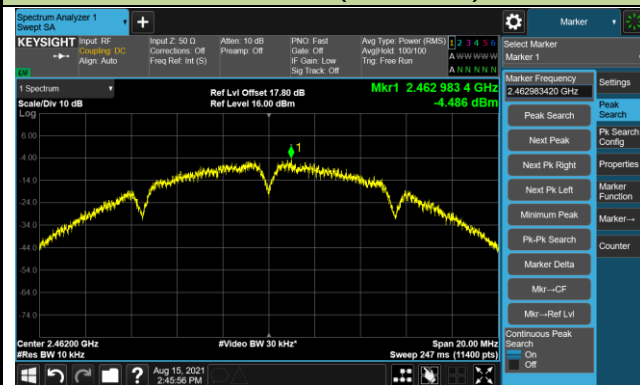
Channel 01 (2412MHz)



Channel 06 (2437MHz)

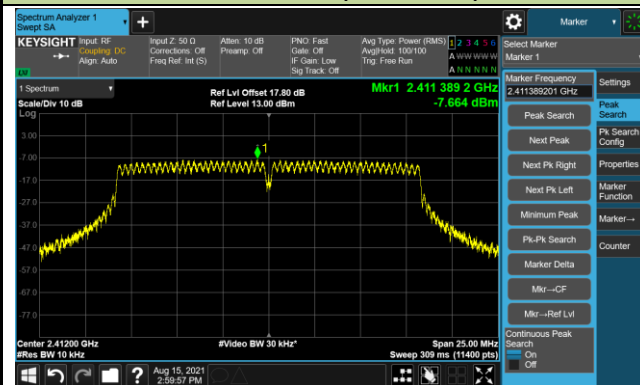


Channel 11 (2462MHz)

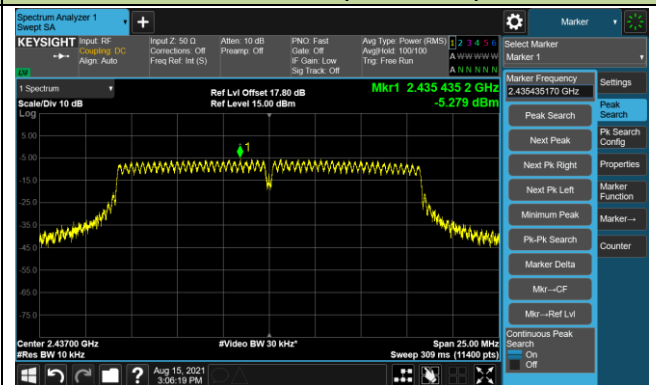


802.11g AVGPDS - Ant 2

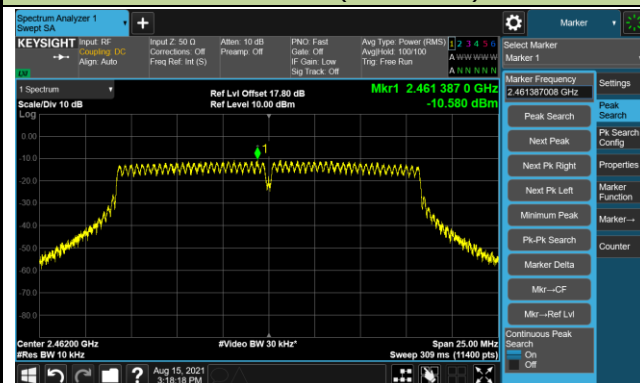
Channel 01 (2412MHz)



Channel 06 (2437MHz)

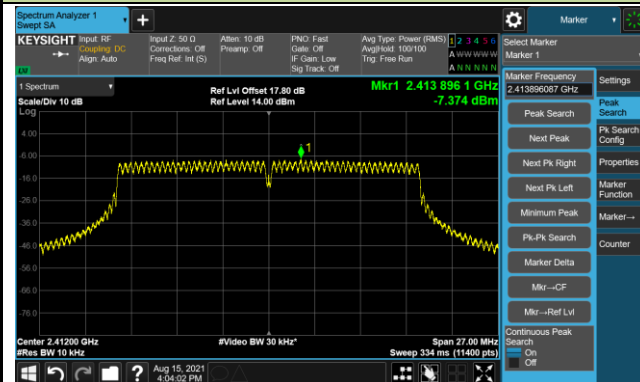


Channel 11 (2462MHz)

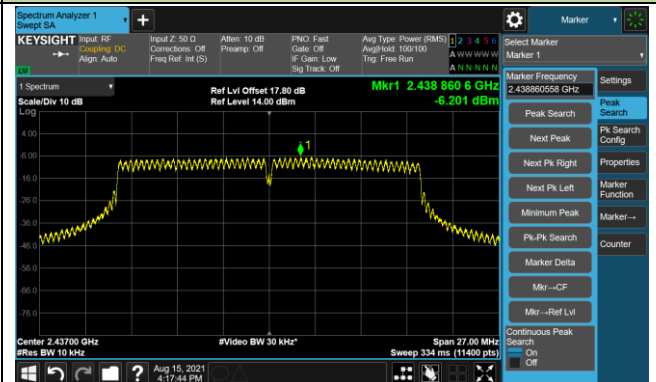


802.11n-HT20 AVGPDS - Ant 2

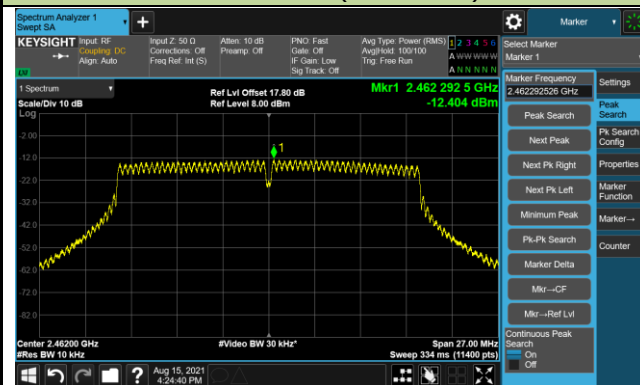
Channel 01 (2412MHz)



Channel 06 (2437MHz)

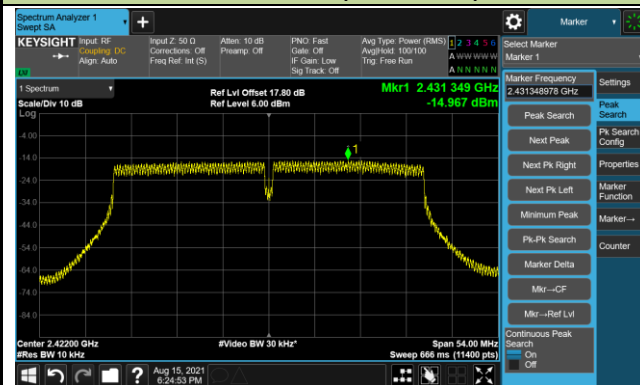


Channel 11 (2462MHz)

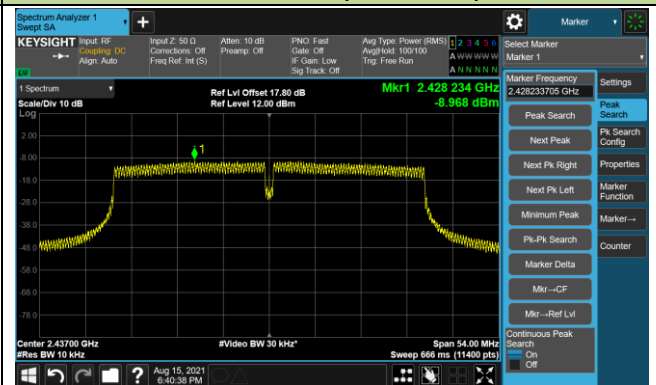


802.11n-HT40 AVGPDS - Ant 2

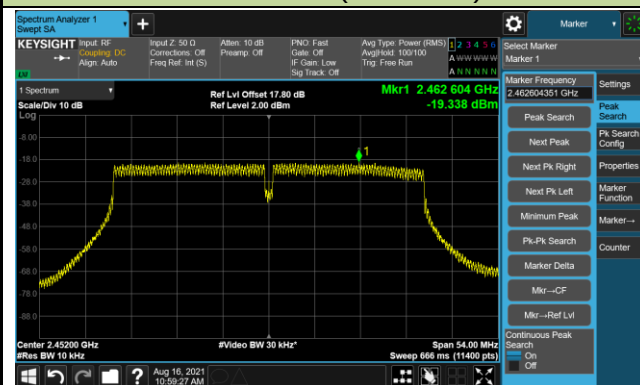
Channel 03 (2422MHz)



Channel 06 (2437MHz)

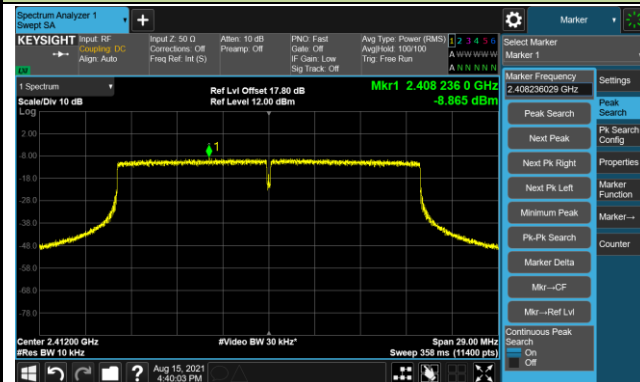


Channel 09 (2452MHz)



802.11ax-HE20 AVGPDS- Ant 2

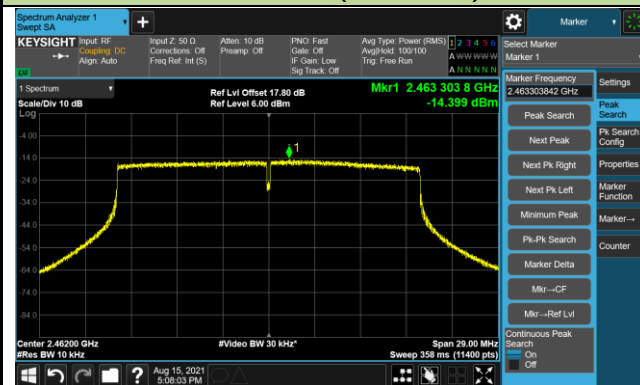
Channel 01 (2412MHz)



Channel 06 (2437MHz)

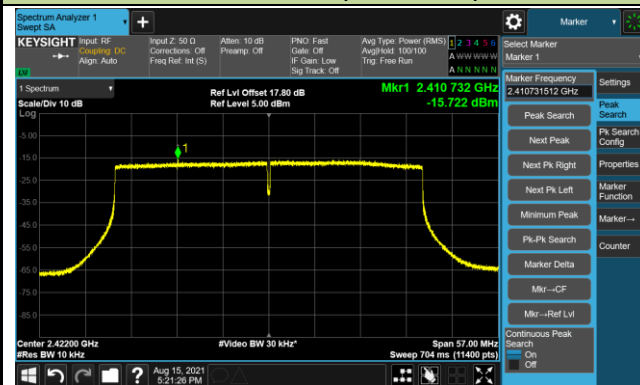


Channel 11 (2462MHz)



802.11ax-HE40 AVGPDS - Ant 2

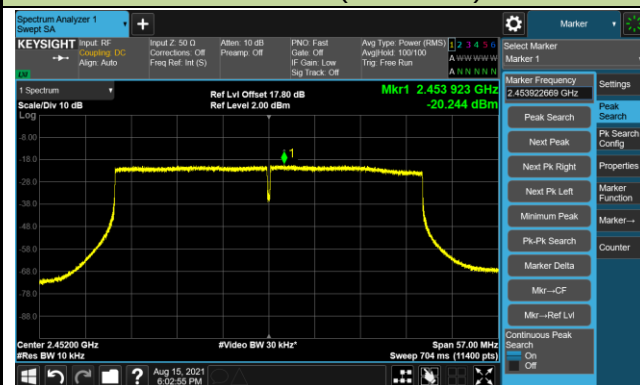
Channel 03 (2422MHz)



Channel 06 (2437MHz)

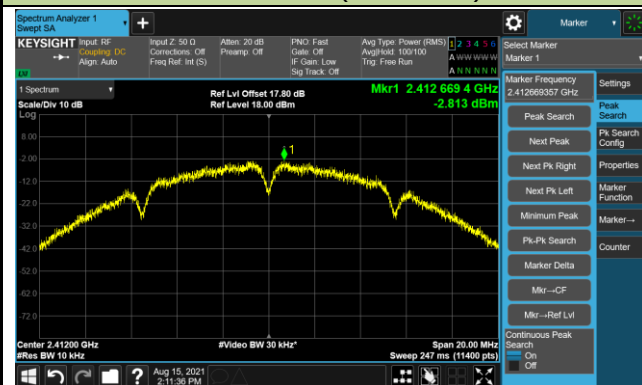


Channel 09 (2452MHz)



802.11b AVGPDS - Ant 3

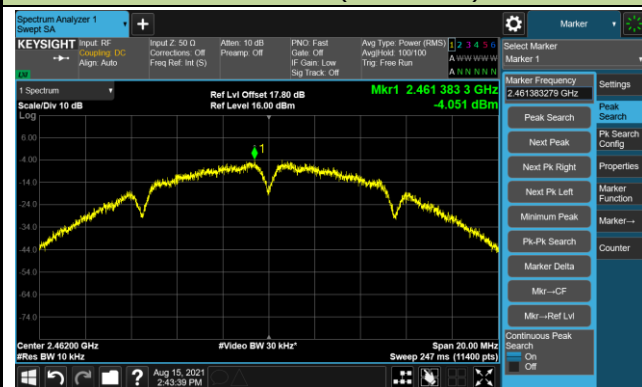
Channel 01 (2412MHz)



Channel 06 (2437MHz)

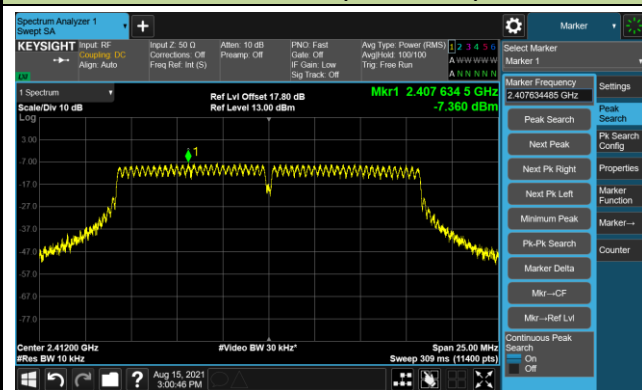


Channel 11 (2462MHz)

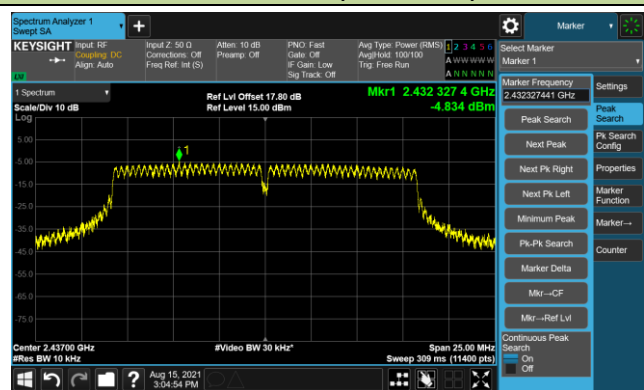


802.11g AVGPDS - Ant 3

Channel 01 (2412MHz)



Channel 06 (2437MHz)

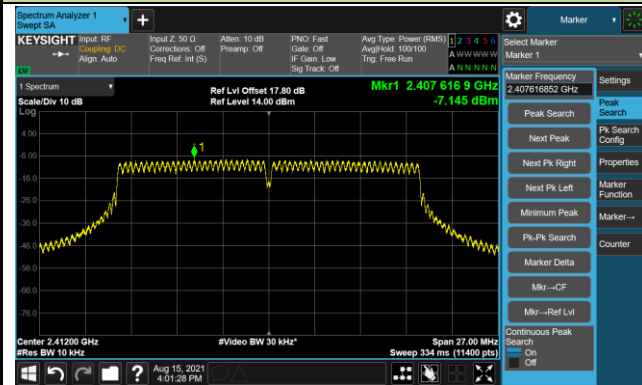


Channel 11 (2462MHz)

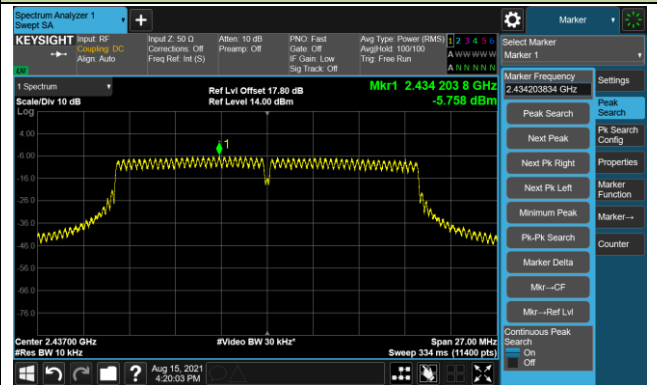


802.11n-HT20 AVGPSPD - Ant 3

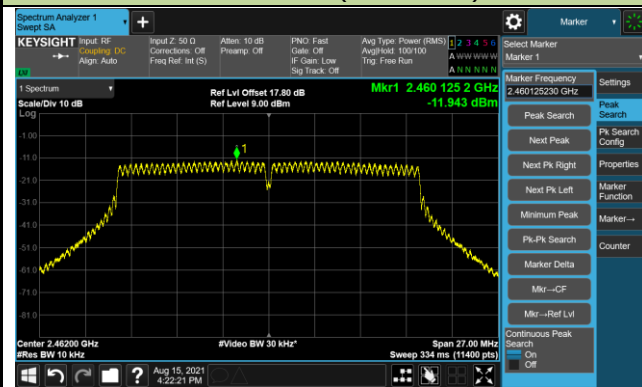
Channel 01 (2412MHz)



Channel 06 (2437MHz)

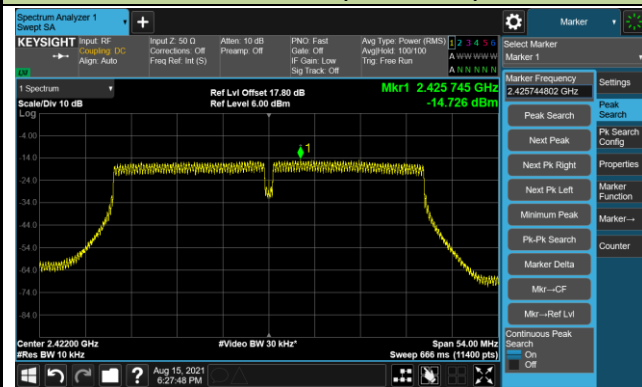


Channel 11 (2462MHz)

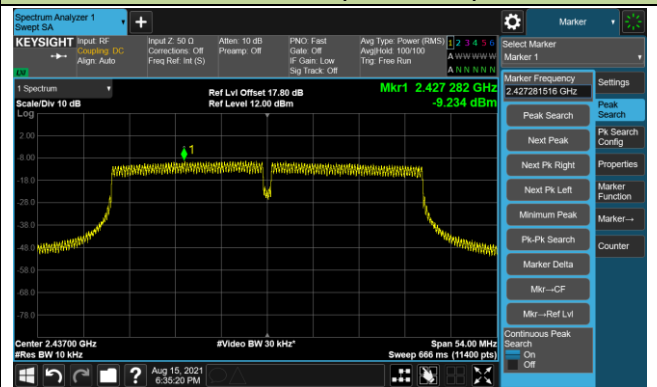


802.11n-HT40 AVGPSPD - Ant 3

Channel 03 (2422MHz)



Channel 06 (2437MHz)



Channel 09 (2452MHz)

