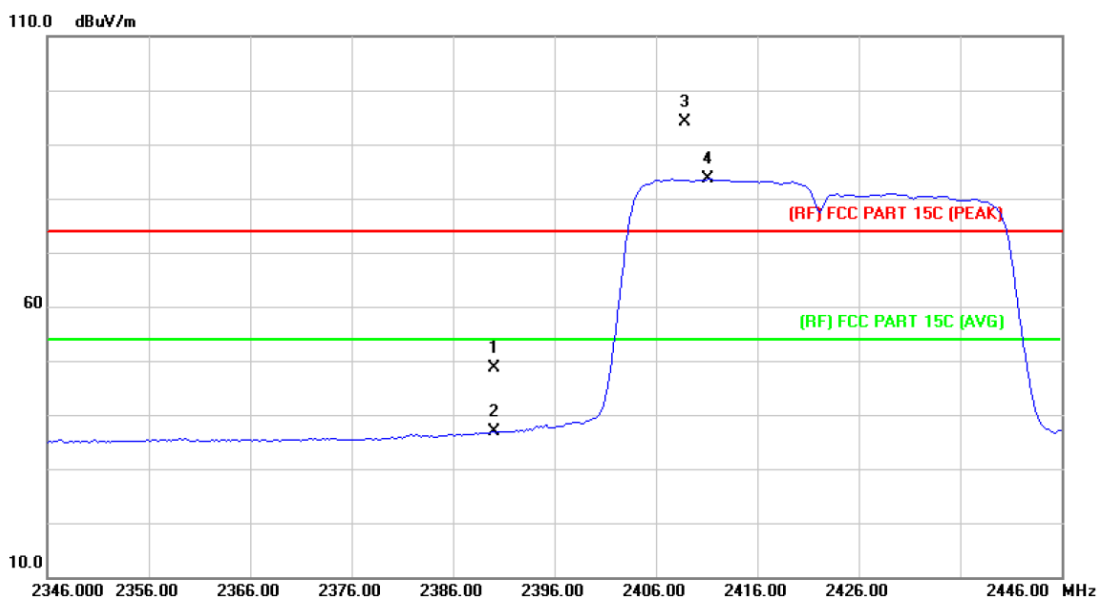


Temperature:	23.5 °C	Relative Humidity:	42%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2422MHz(Module: EUS_v143)		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	47.25	1.28	48.53	74.00	-25.47	peak
2		2390.000	35.53	1.28	36.81	54.00	-17.19	AVG
3	X	2408.800	92.77	1.37	94.14	Fundamental Frequency		peak
4	*	2411.200	82.27	1.39	83.66	Fundamental Frequency		AVG

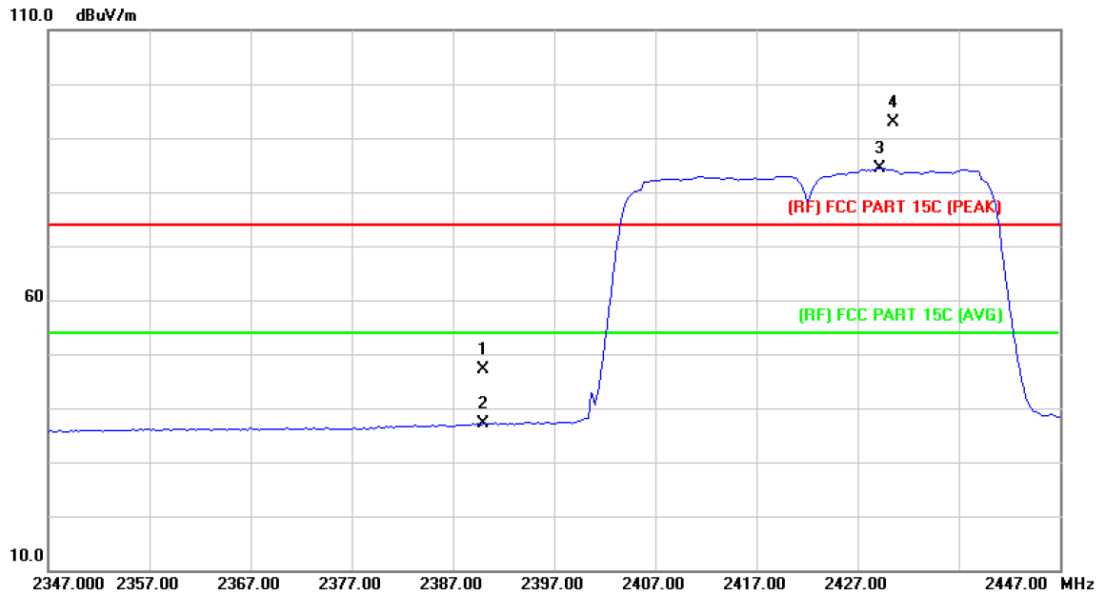
Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)

3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	23.5 °C	Relative Humidity:	42%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2422MHz(Module: EUS_v143)		
Remark:	N/A		

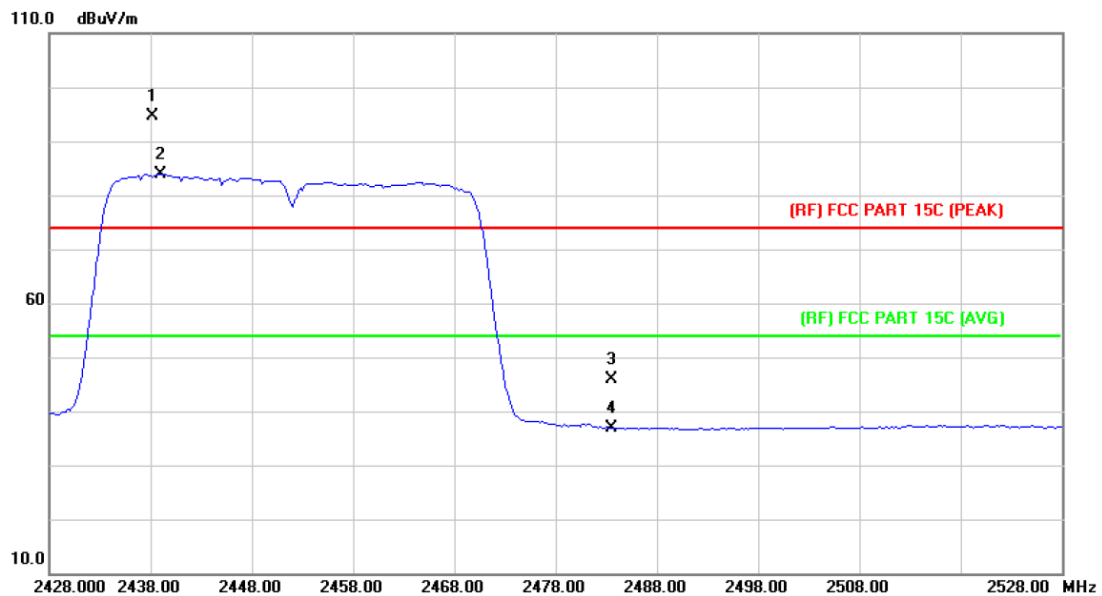


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		2390.000	45.89	1.28	47.17	74.00	-26.83	peak
2		2390.000	35.81	1.28	37.09	54.00	-16.91	AVG
3	*	2429.200	82.90	1.51	84.41	Fundamental Frequency		AVG
4	X	2430.600	91.28	1.52	92.80	Fundamental Frequency		peak

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	23.5 °C	Relative Humidity:	42%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Horizontal		
Test Mode:	TX N(HT40) Mode 2452MHz(Module: EUS_v143)		
Remark:	N/A		

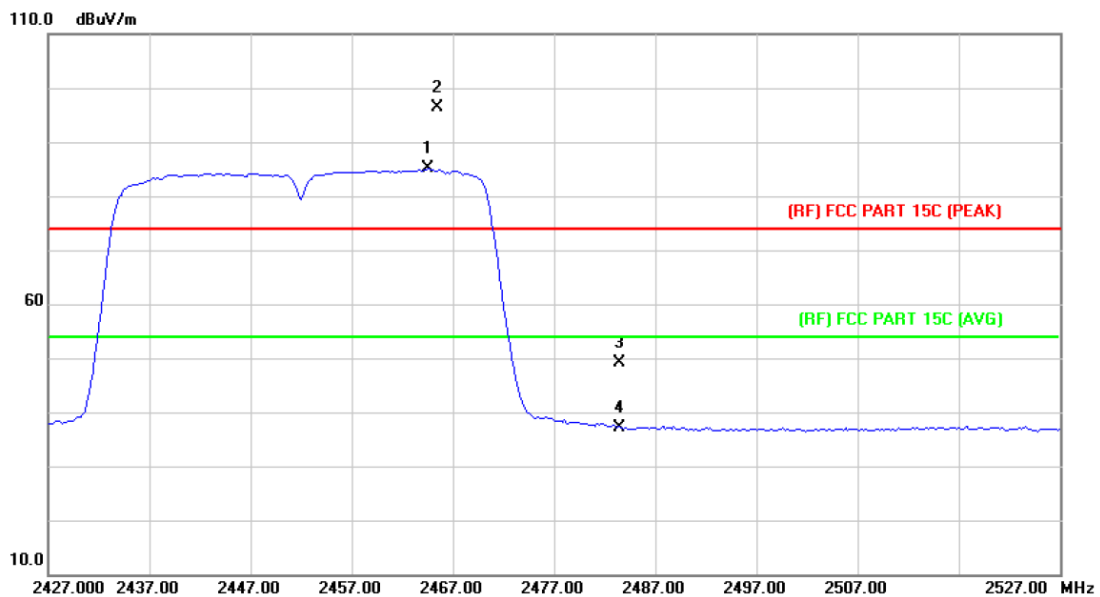


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	X	2438.200	93.16	1.58	94.74	Fundamental Frequency		peak
2	*	2439.000	82.36	1.58	83.94	Fundamental Frequency		AVG
3		2483.500	44.02	1.88	45.90	74.00	-28.10	peak
4		2483.500	34.92	1.88	36.80	54.00	-17.20	AVG

Remark:

1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)
2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

Temperature:	23.5 °C	Relative Humidity:	42%
Test Voltage:	AC 120V/60Hz		
Ant. Pol.	Vertical		
Test Mode:	TX N(HT40) Mode 2452MHz(Module: EUS_v143)		
Remark:	N/A		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1	*	2464.600	83.28	1.75	85.03	Fundamental Frequency		AVG
2	X	2465.400	94.54	1.76	96.30	Fundamental Frequency		peak
3		2483.500	47.37	1.88	49.25	74.00	-24.75	peak
4		2483.500	35.15	1.88	37.03	54.00	-16.97	AVG

Remark:

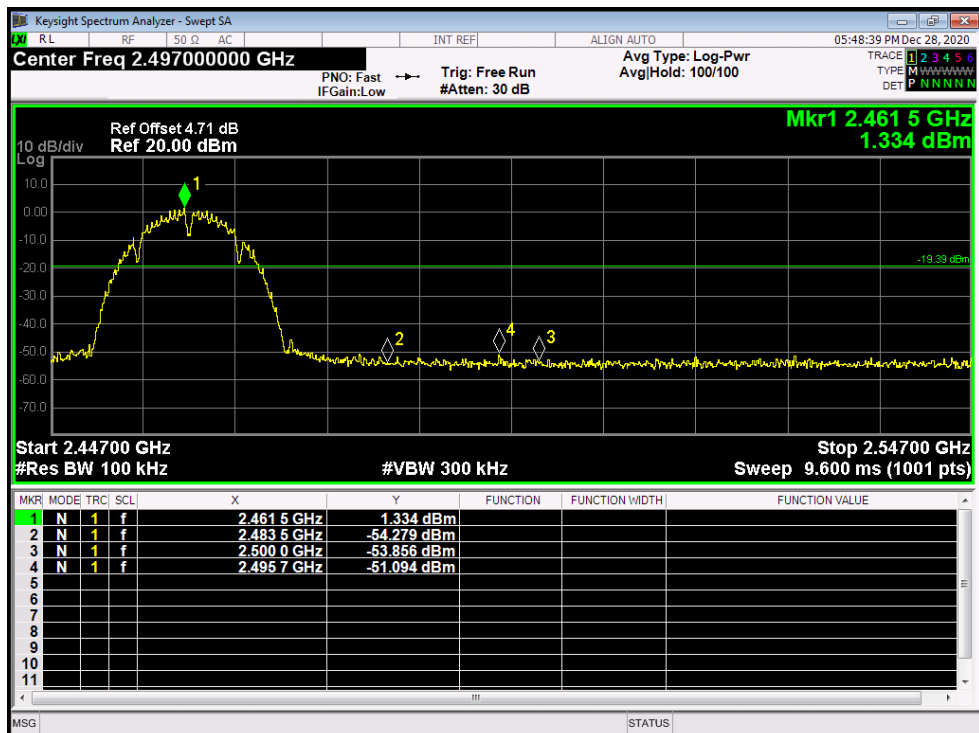
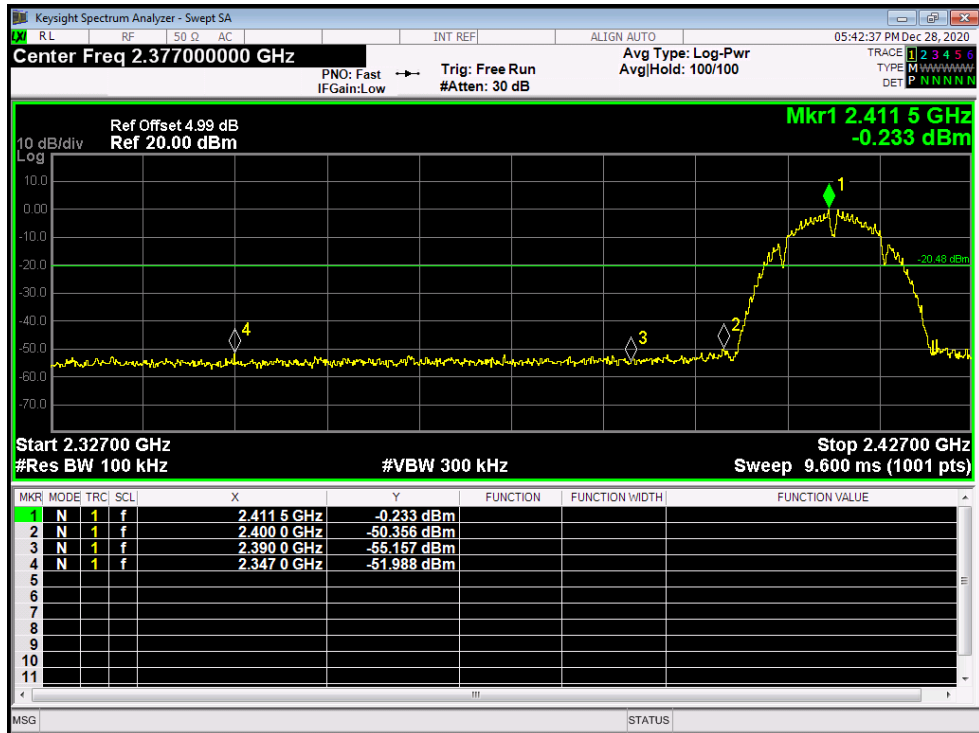
1. Corr. = Antenna Factor (dB/m) + Cable Loss (dB)

2. Peak/AVG (dBuV/m) = Corr. (dB/m) + Read Level (dBuV)

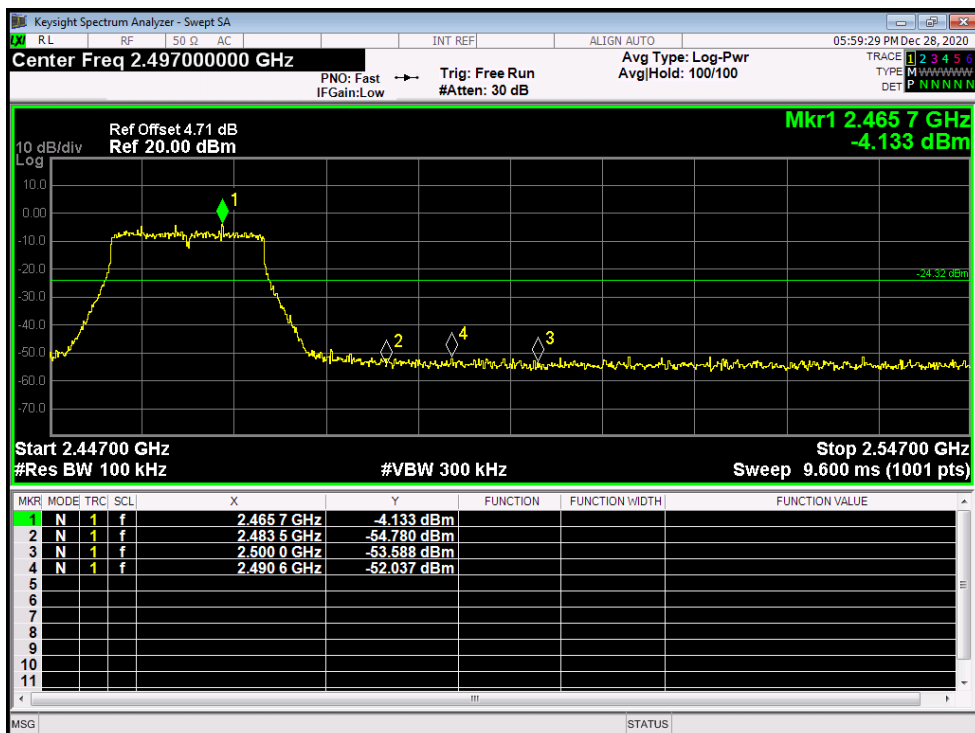
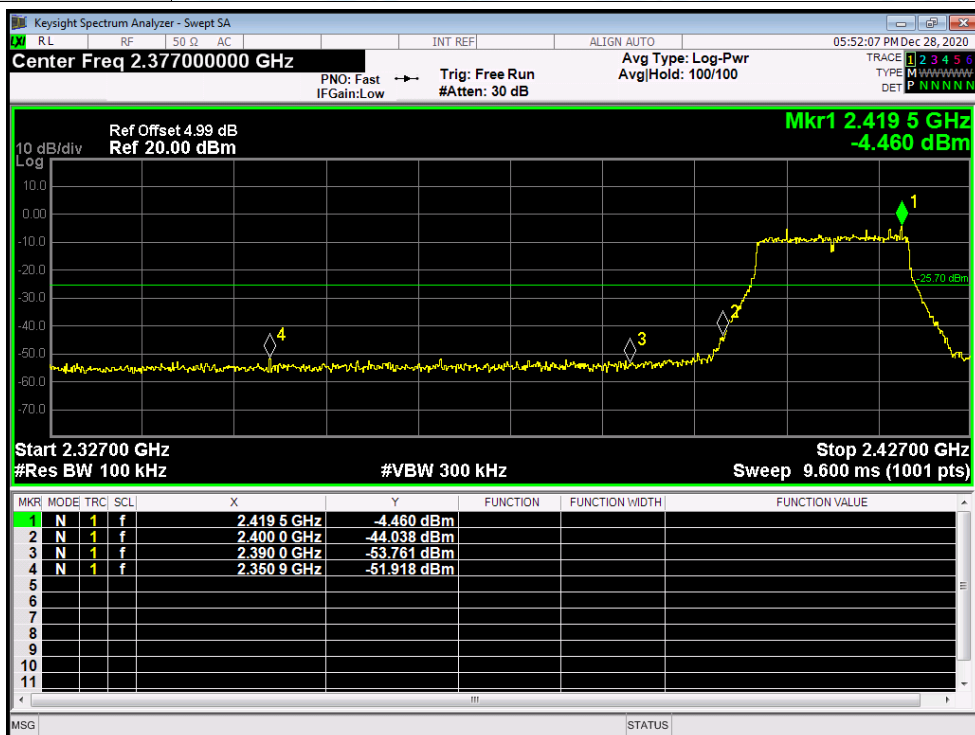
3. Margin (dB) = Peak/AVG (dBuV/m) - Limit PK/AVG (dBuV/m)

(2) Conducted Test

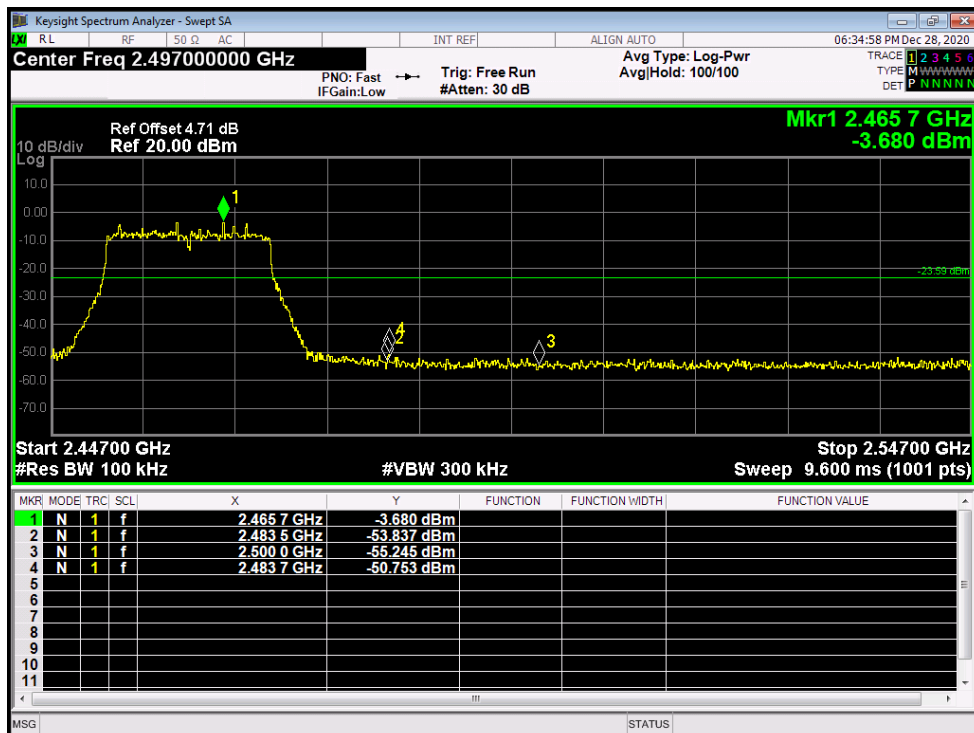
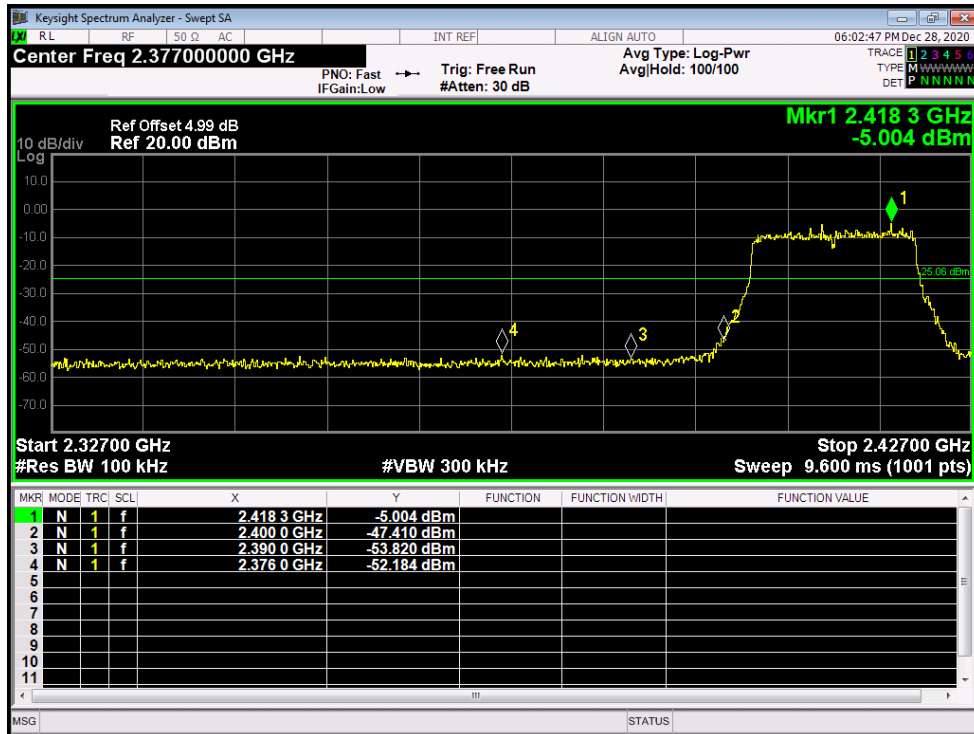
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz(Module: 6032)		
Remark:	The EUT is programmed in continuously transmitting mode		



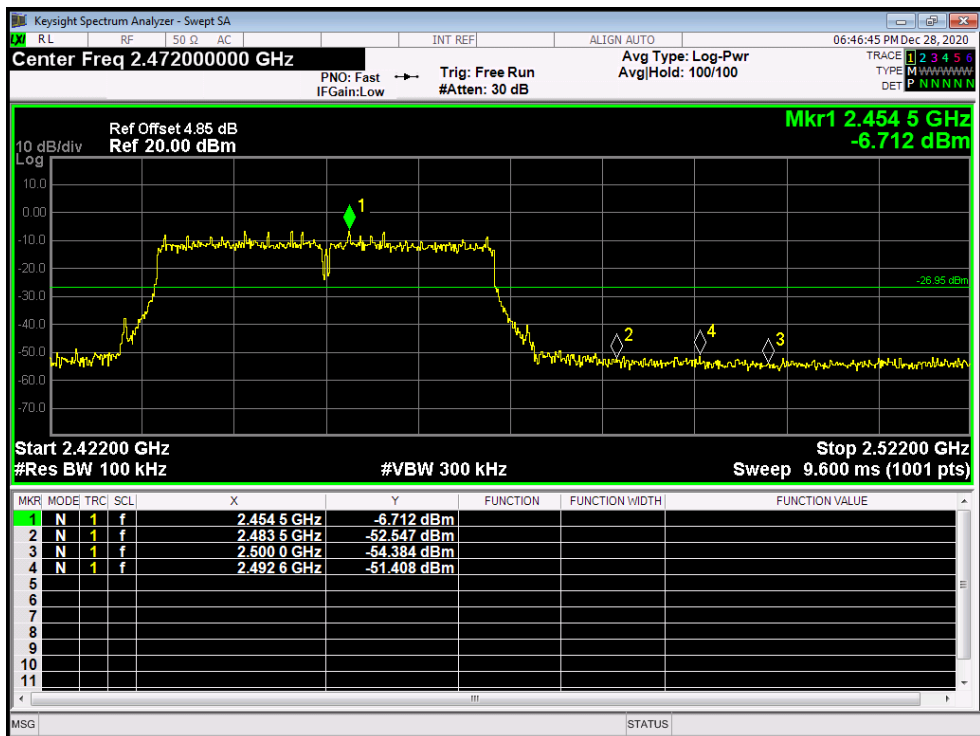
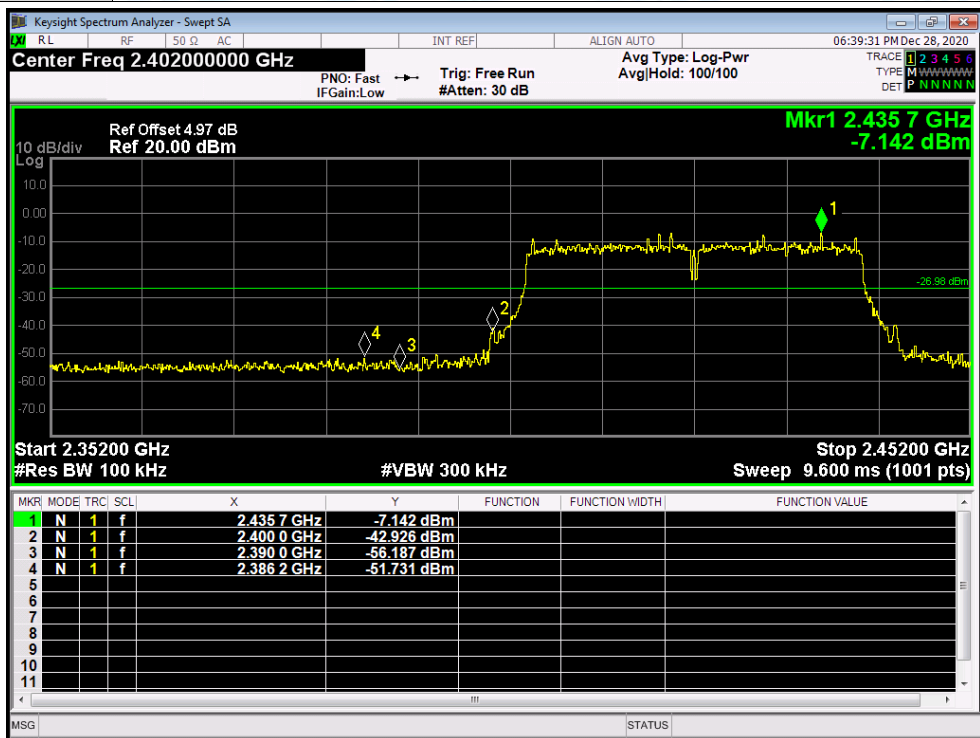
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz(Module: 6032)		
Remark:	The EUT is programmed in continuously transmitting mode		



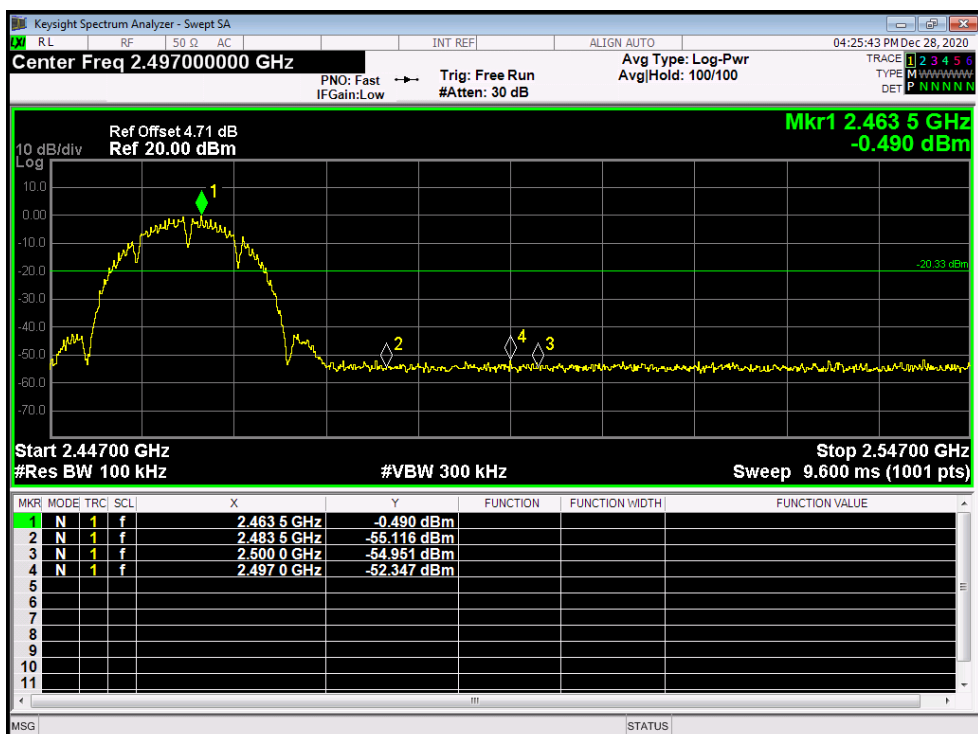
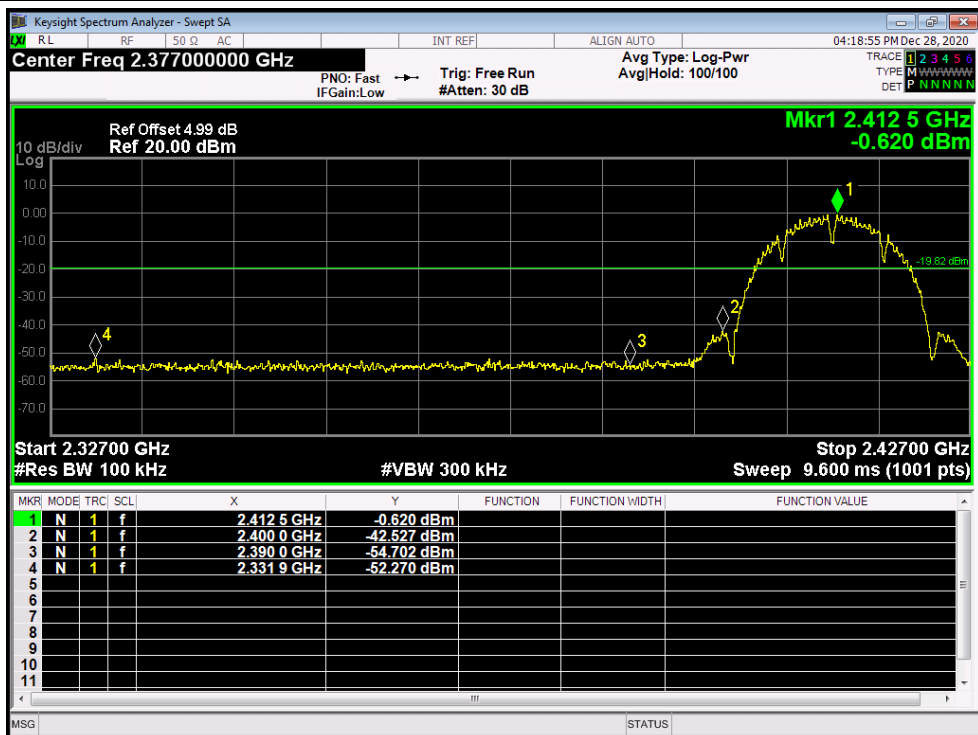
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz(Module: 6032)		
Remark:	The EUT is programmed in continuously transmitting mode		



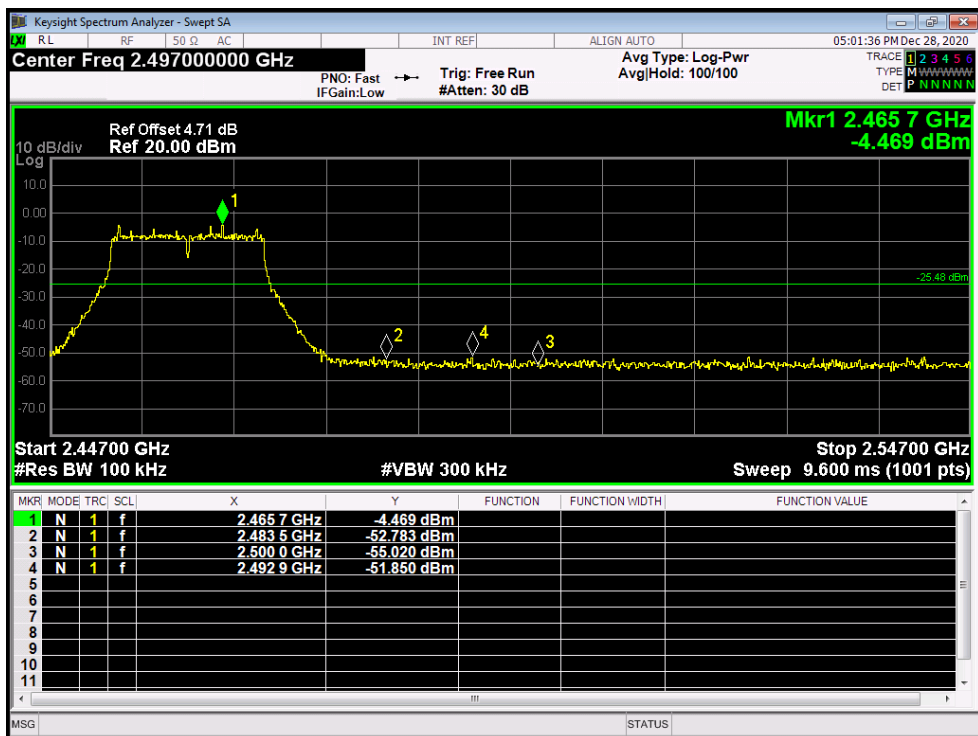
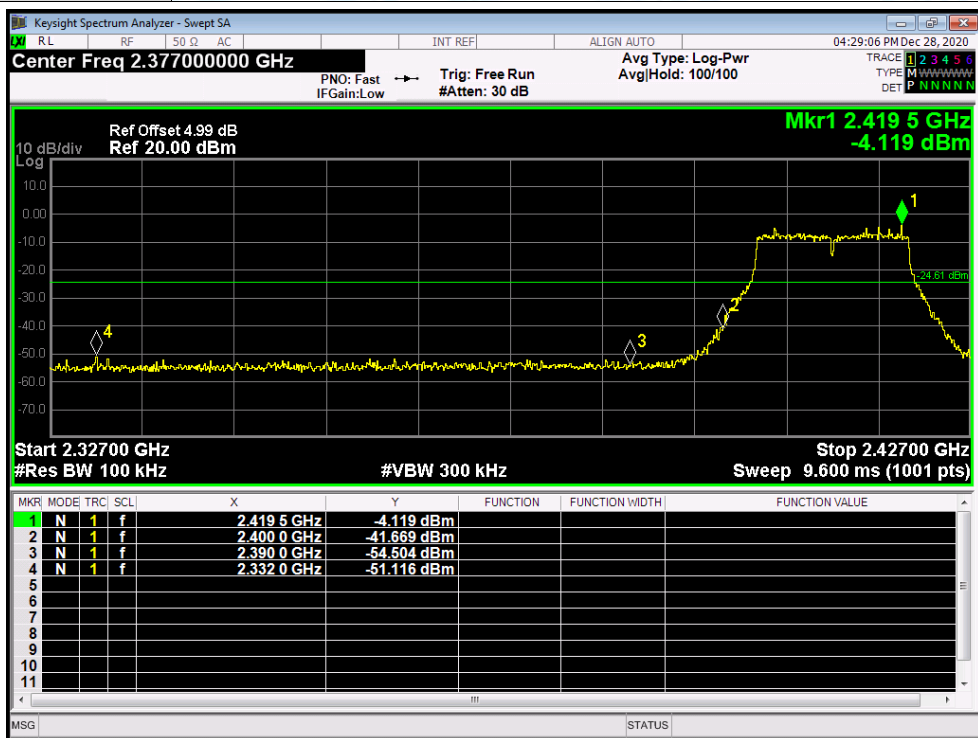
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz(Module: 6032)		
Remark:	The EUT is programmed in continuously transmitting mode		



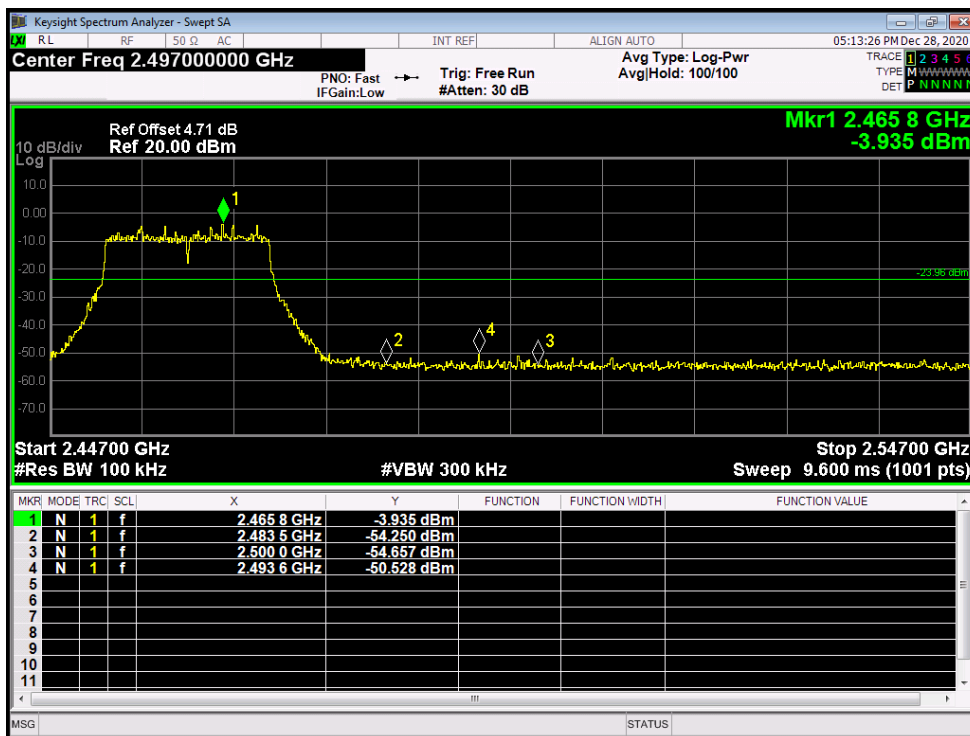
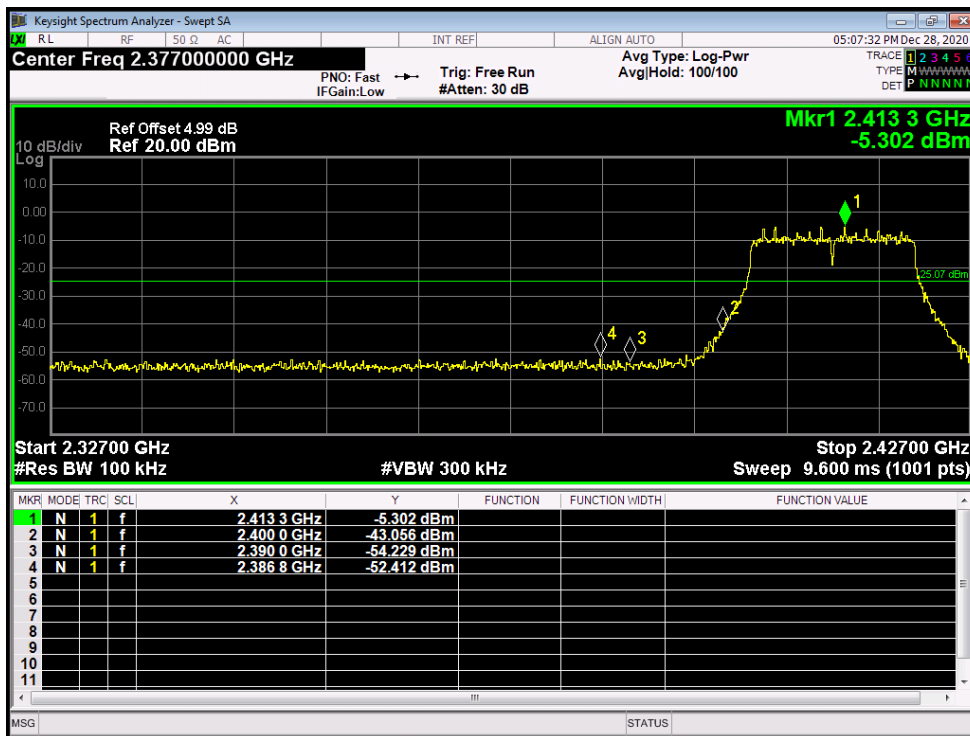
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX B Mode 2412MHz / TX B Mode 2462MHz(Module: EUS_v143)		
Remark:	The EUT is programmed in continuously transmitting mode		



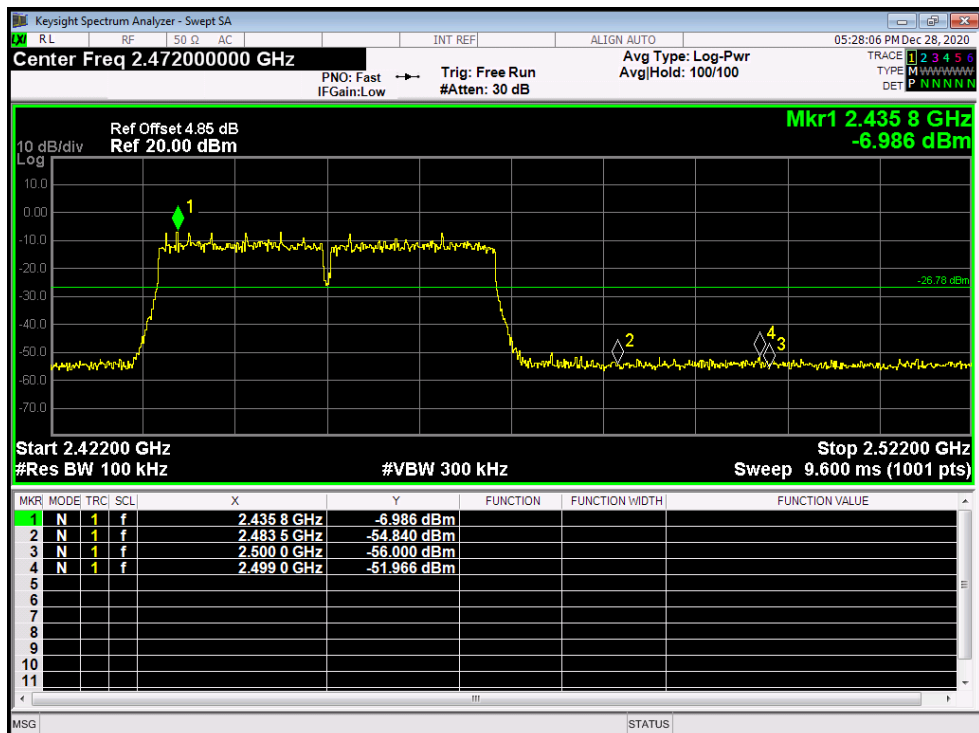
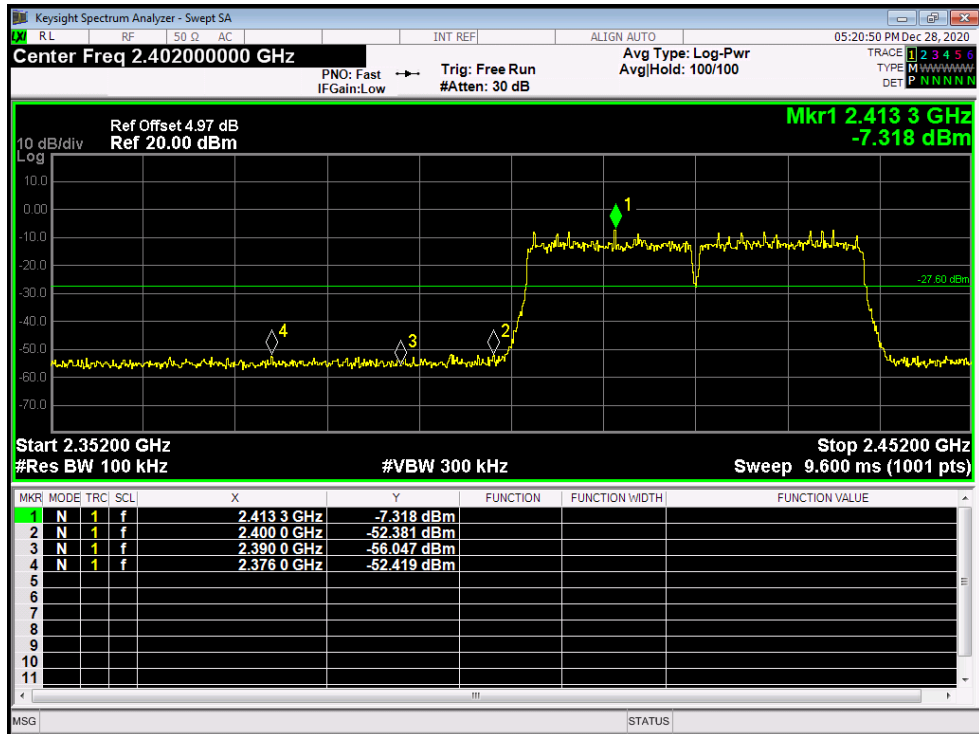
Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX G Mode 2412MHz / TX G Mode 2462MHz(Module: EUS_v143)		
Remark:	The EUT is programmed in continuously transmitting mode		



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX N(HT20) Mode 2412MHz / TX N(HT20) Mode 2462MHz(Module: EUS_v143)		
Remark:	The EUT is programmed in continuously transmitting mode		



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX N(HT40) Mode 2422MHz / TX N(HT40) Mode 2452MHz(Module: EUS_v143)		
Remark:	The EUT is programmed in continuously transmitting mode		



Attachment D-- Bandwidth Test Data

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11B Mode(Module: 6032)		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	8.539	/	>=0.5
2437	8.567	/	
2462	8.093	/	
802.11B Mode			
2412 MHz			

Keysight Spectrum Analyzer - Occupied BW

RLRF50ΩAC

INT REF

ALIGN AUTO

05:41:34 PM Dec 28, 2020

Center Freq 2.412000000 GHz

Center Freq: 2.412000000 GHz

Trig: Free Run

#Atten: 30 dB

Avg/Hold: 100/100

Radio Std: None

#IF Gain: Low

Radio Device: BTS

Ref Offset 4.99 dB

Ref 24.99 dBm

Mkr3 2.416354 GHz

-9.2036 dBm

10 dB/div

Log

4.99

-15.0

-50.1

-25.0

-35.0

-45.0

-55.0

-65.0

1

2

3

Center 2.412 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 30 MHz

Sweep 3.333 ms

Occupied Bandwidth

13.270 MHz

Total Power

14.6 dBm

Transmit Freq Error

85.121 kHz

% of OBW Power

99.00 %

x dB Bandwidth

8.539 MHz

x dB

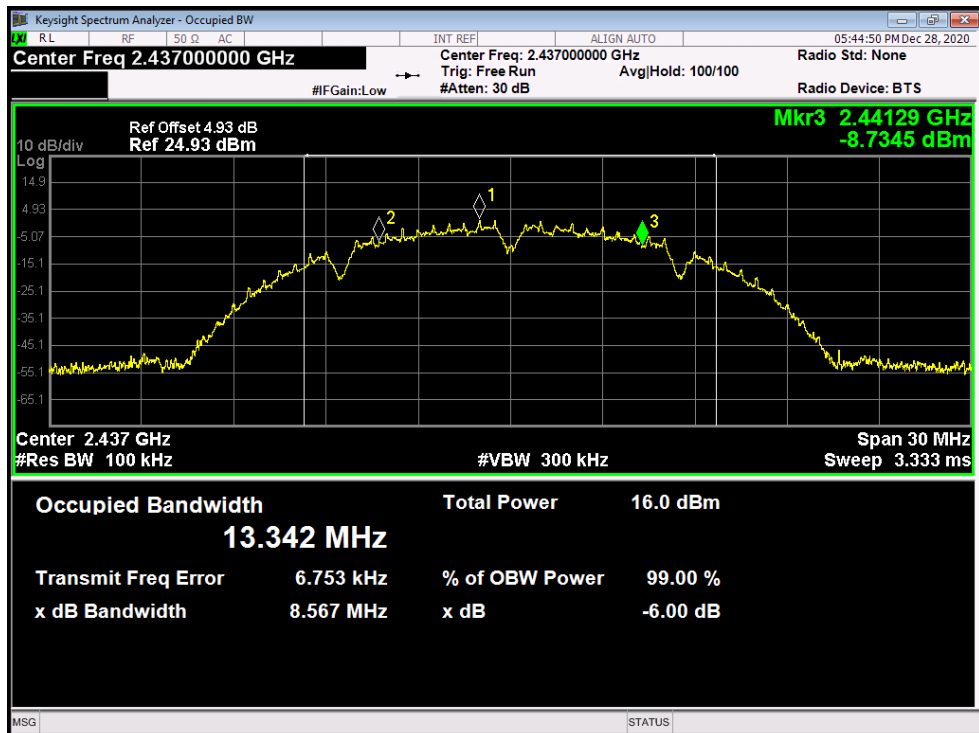
-6.00 dB

MSG

STATUS

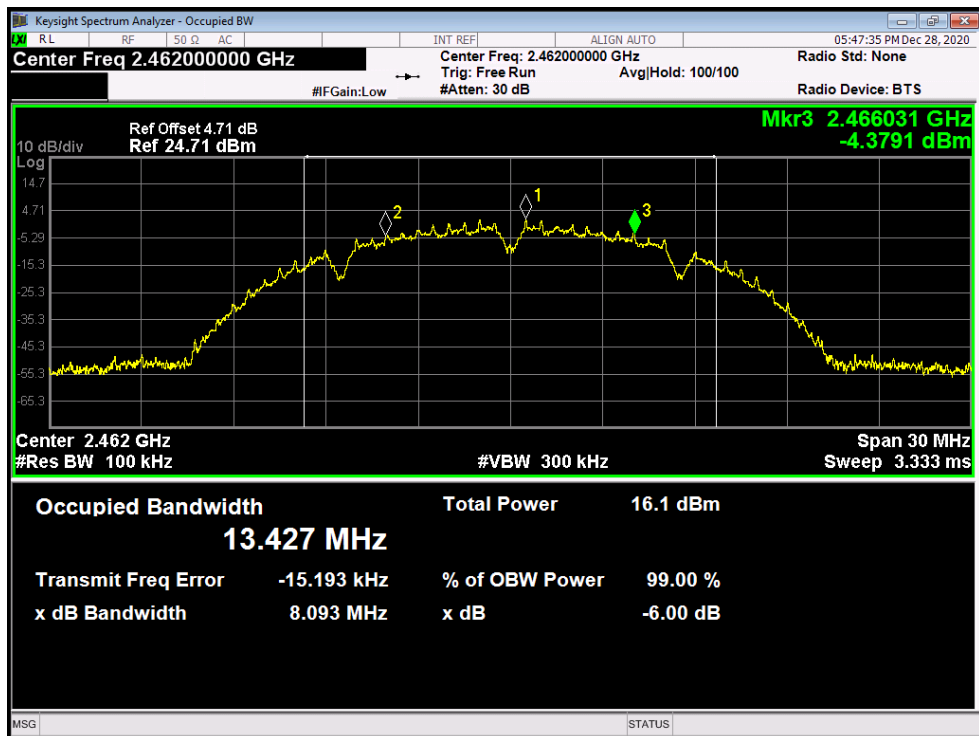
802.11B Mode

2437 MHz



802.11B Mode

2462 MHz



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11G Mode(Module: 6032)		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	16.34	/	>=0.5
2437	16.35	/	
2462	16.32	/	

802.11G Mode

2412 MHz

Keysight Spectrum Analyzer - Occupied BW

RLRF50 OAC

INT REFALIGN AUTO

05:51:09 PM Dec 28, 2020

Center Freq 2.412000000 GHz

#FGain:Low

Center Freq: 2.412000000 GHz

Trig: Free Run

#Atten: 30 dB

Avg/Hold: 100/100

Radio Std: None

Radio Device: BTS

Ref Offset 4.99 dB

Ref 24.99 dBm

Mkr3 2.420179 GHz

-10.708 dBm

10 dB/div

Log

4.99

5.01

15.0

25.0

35.0

45.0

55.0

65.0

Center 2.412 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 30 MHz

Sweep 3.333 ms

Occupied Bandwidth

16.443 MHz

Total Power

12.2 dBm

Transmit Freq Error

8.080 kHz

% of OBW Power

99.00 %

x dB Bandwidth

16.34 MHz

x dB

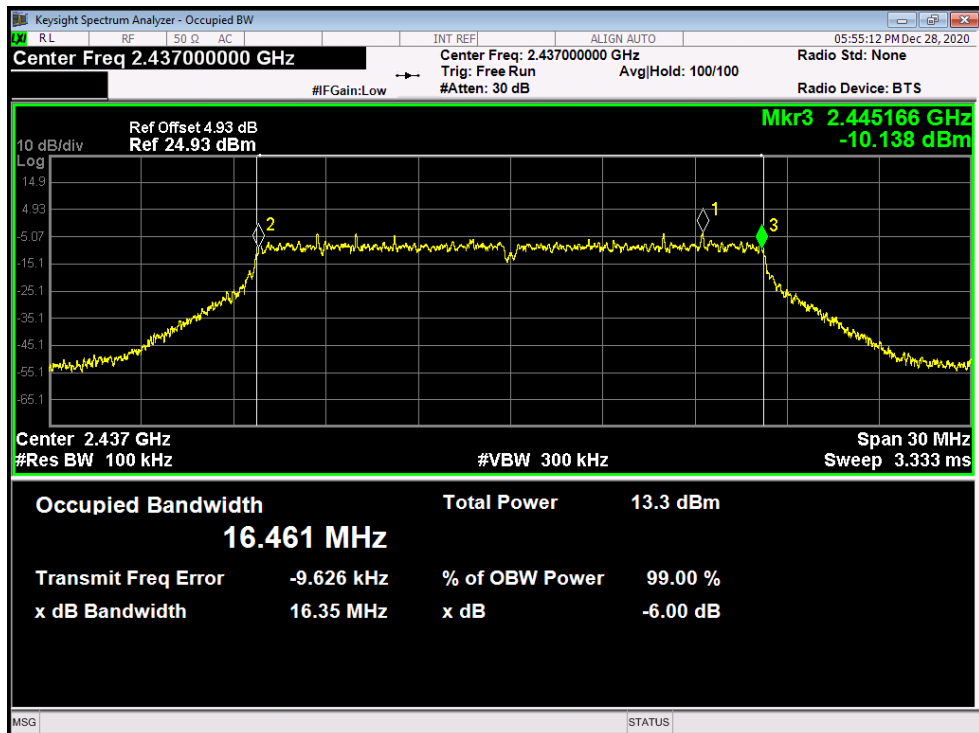
-6.00 dB

MSG

STATUS

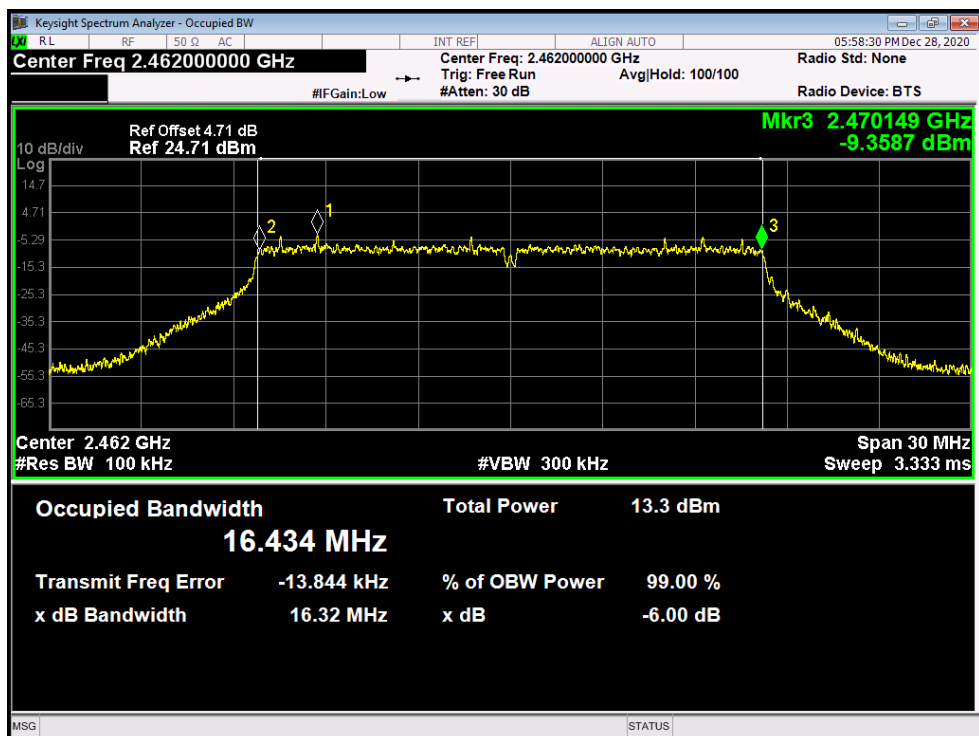
802.11G Mode

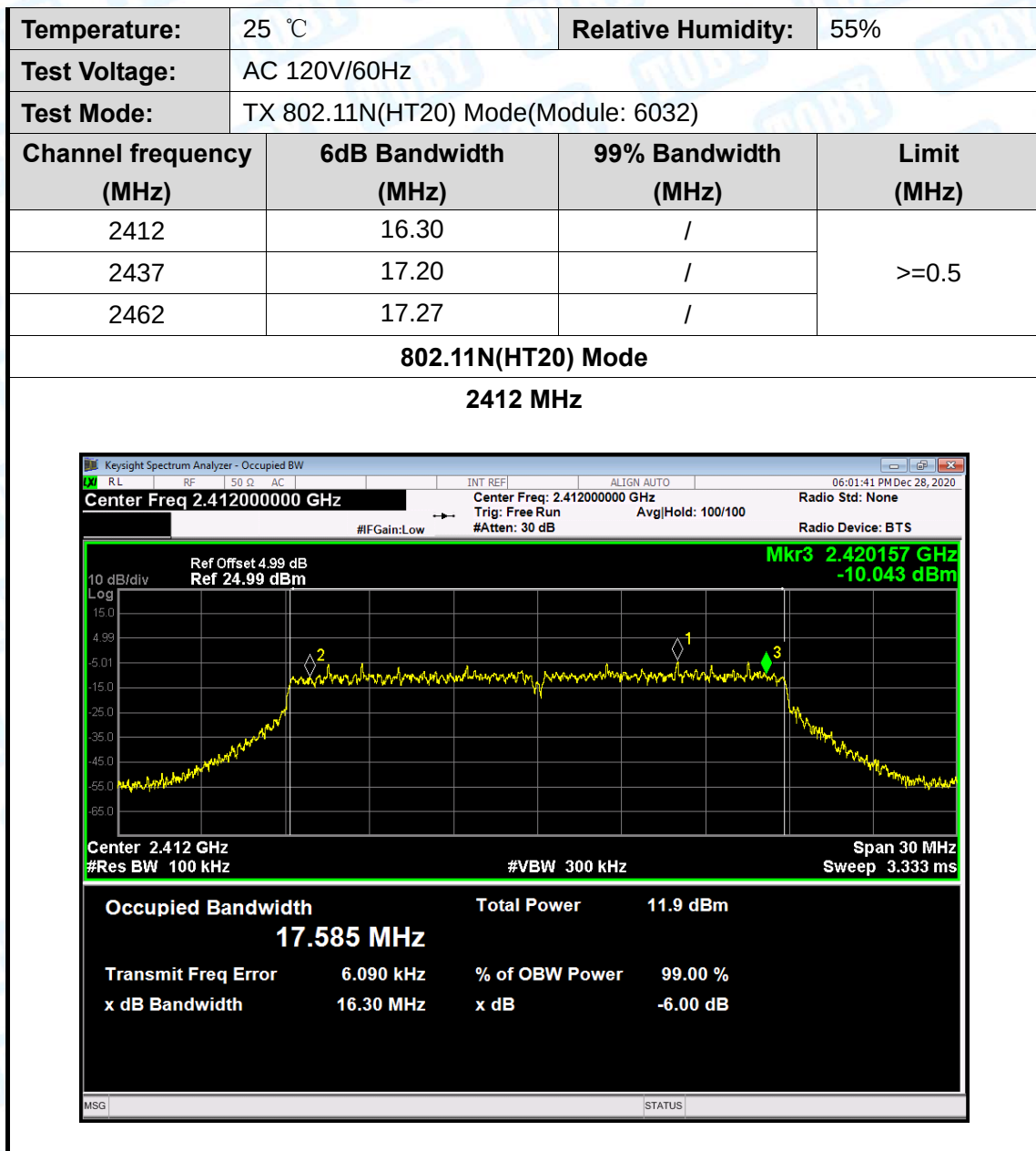
2437 MHz



802.11G Mode

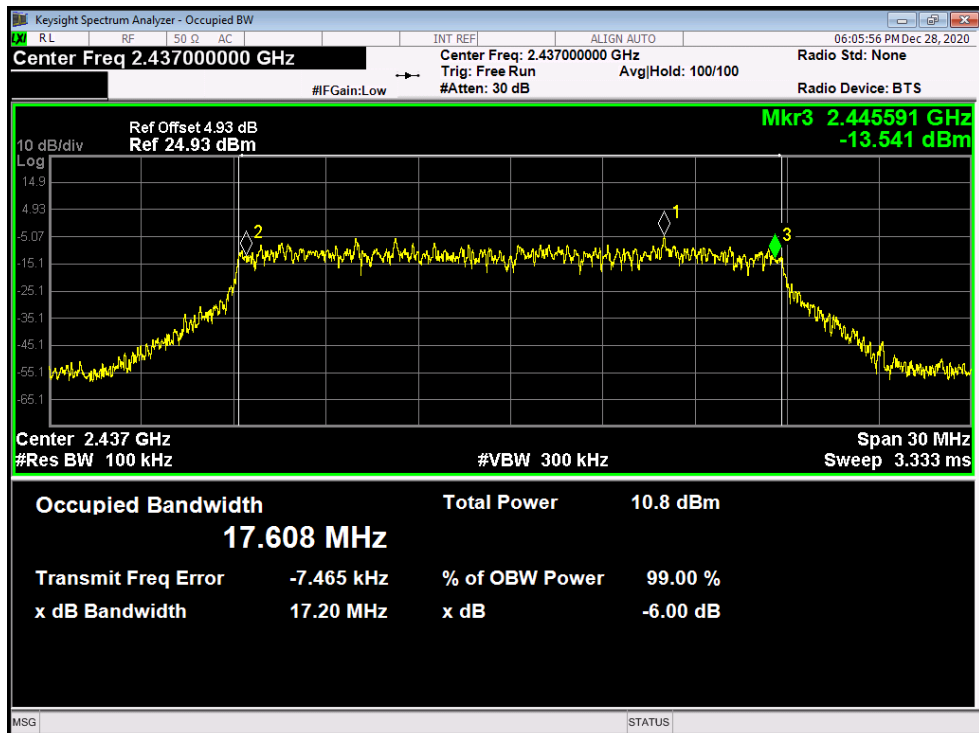
2462 MHz





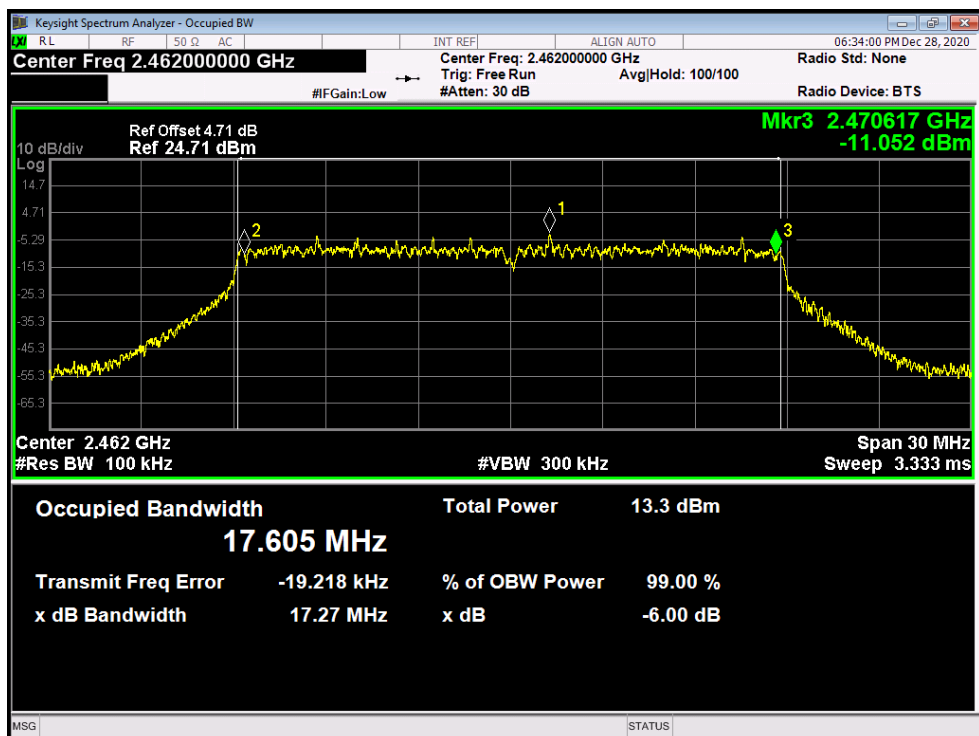
802.11N(HT20) Mode

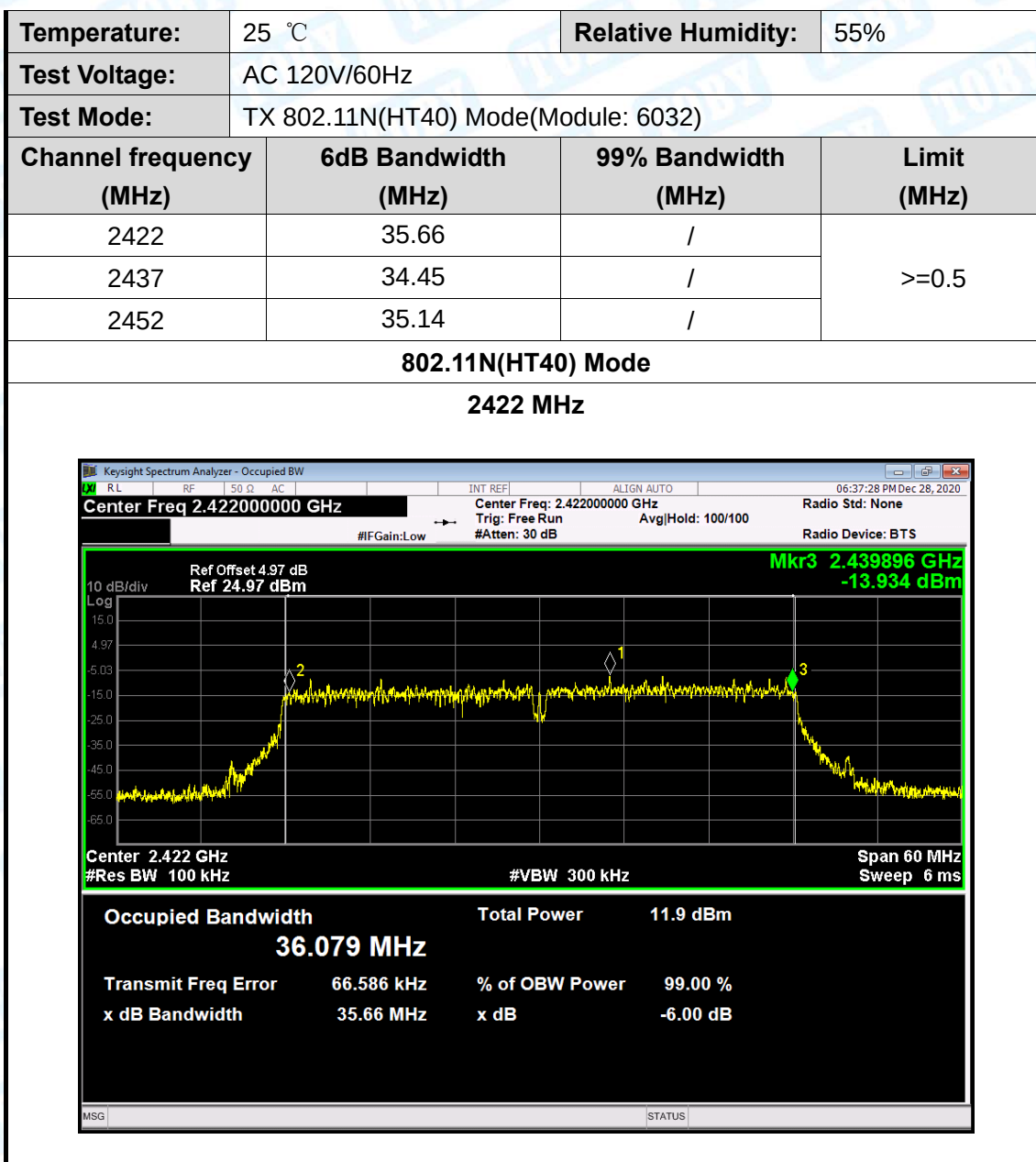
2437 MHz



802.11N(HT20) Mode

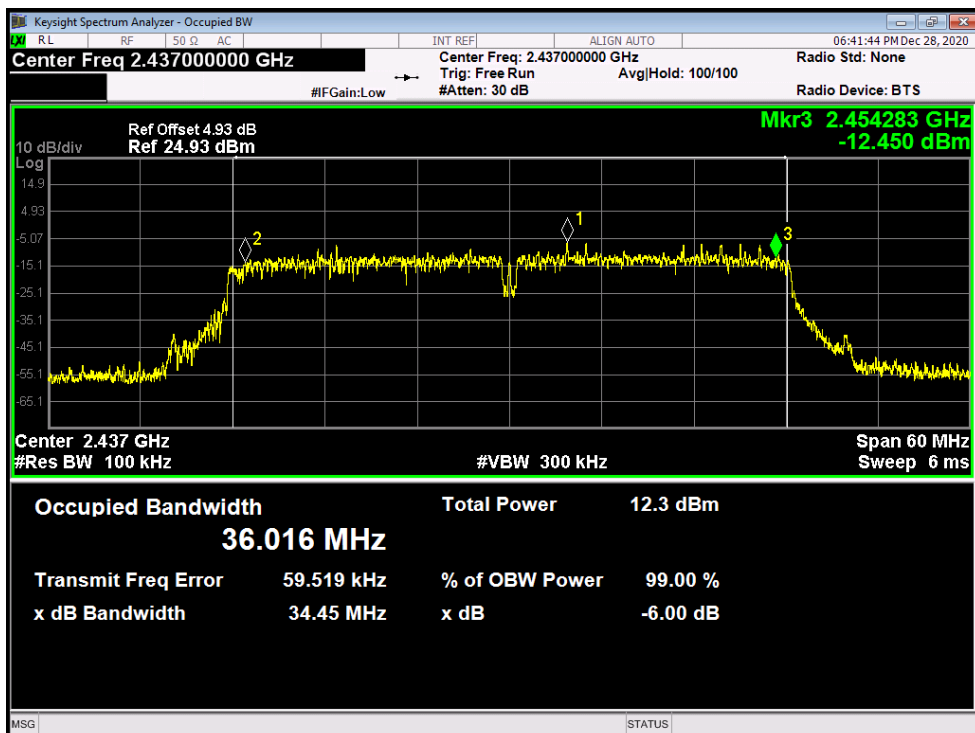
2462 MHz





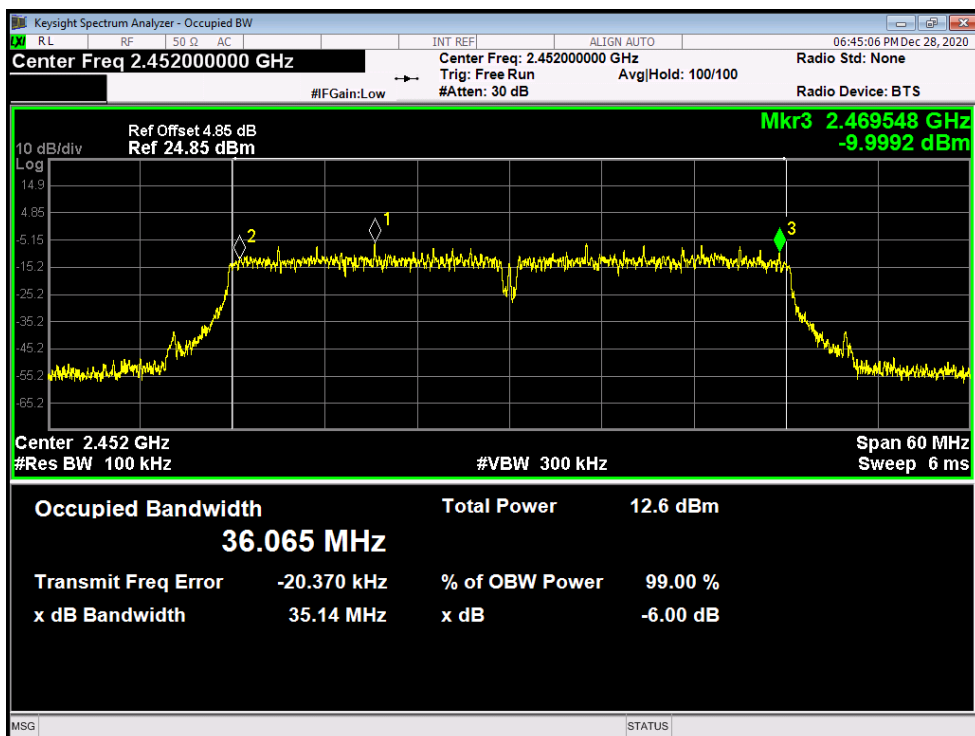
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

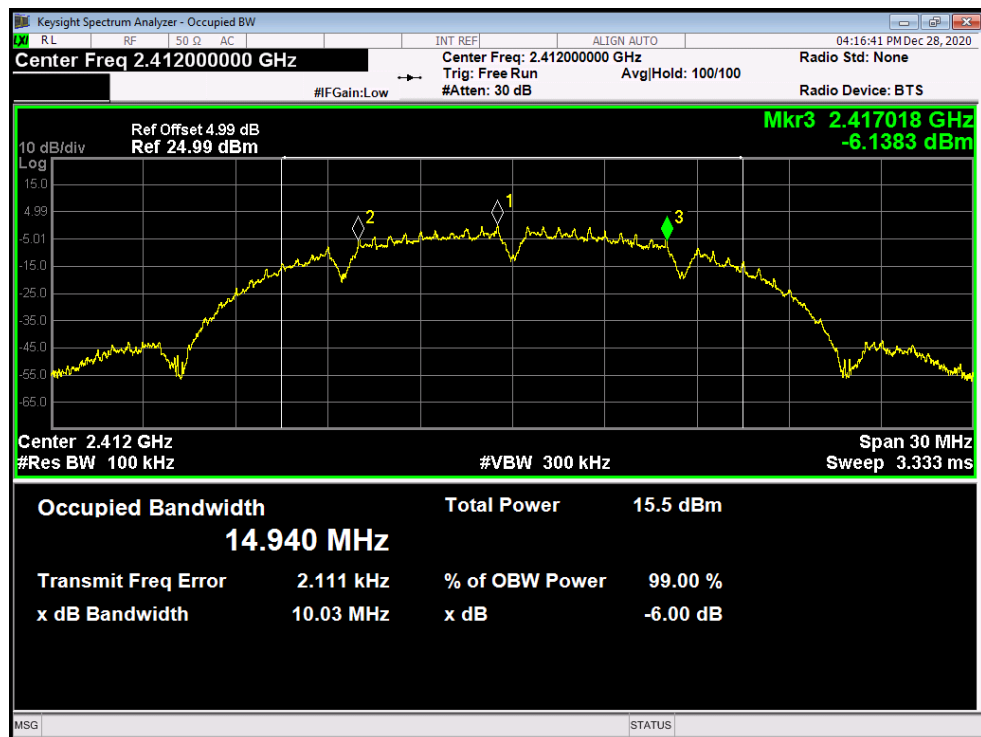
2452 MHz



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11B Mode(Module: EUS_v143)		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2412	10.03	/	>=0.5
2437	9.067	/	
2462	9.600	/	

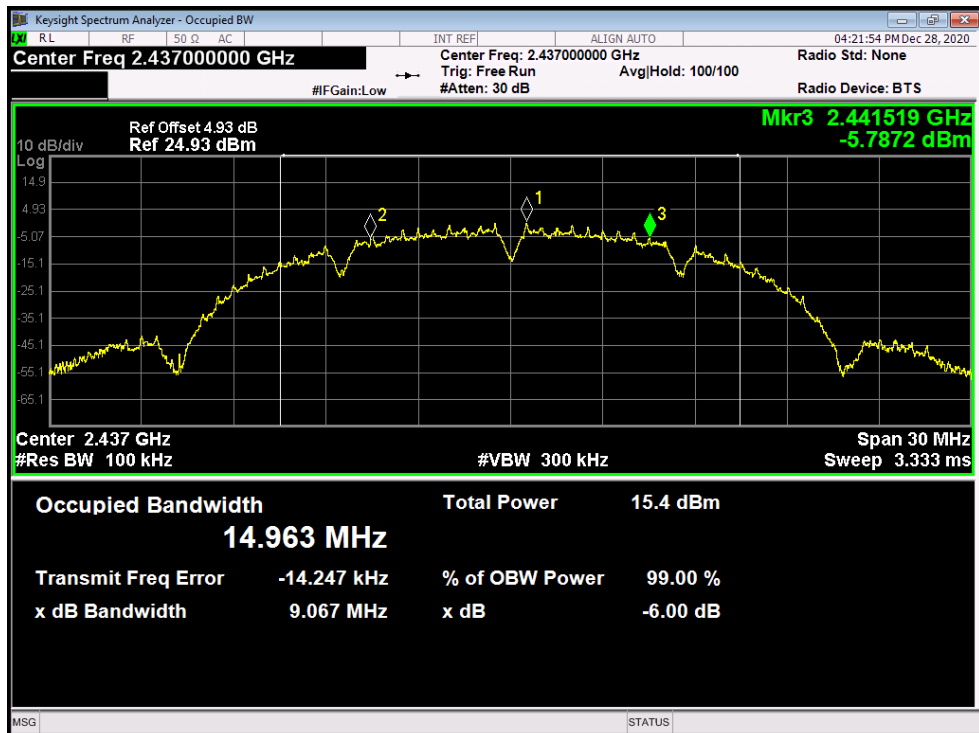
802.11B Mode

2412 MHz



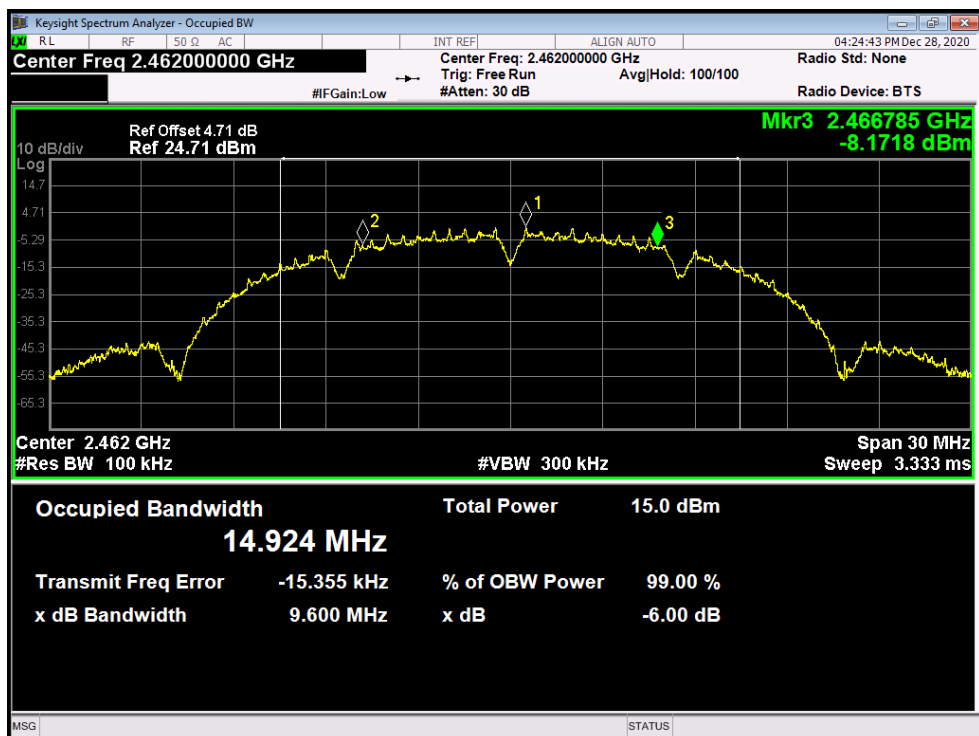
802.11B Mode

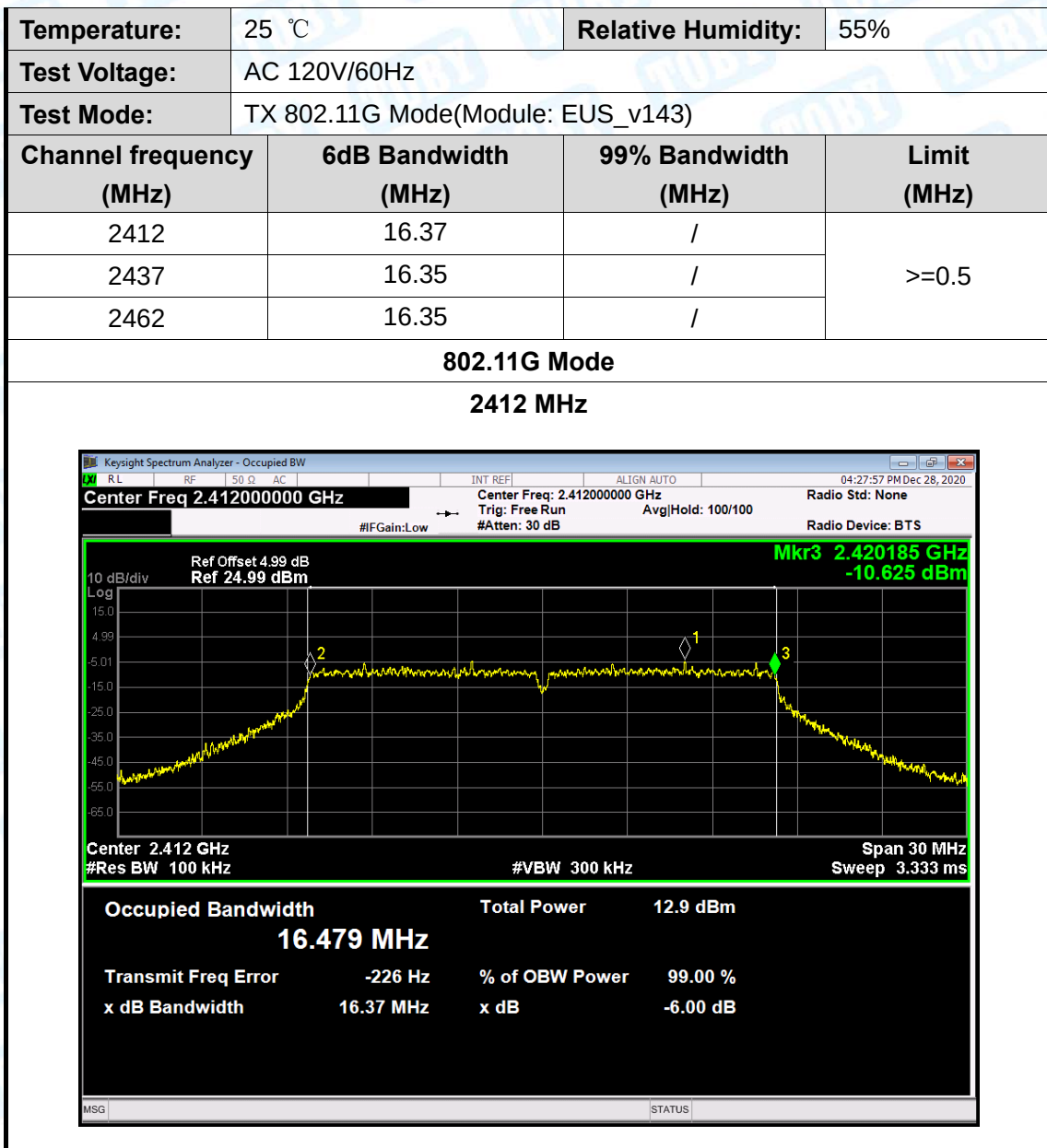
2437 MHz



802.11B Mode

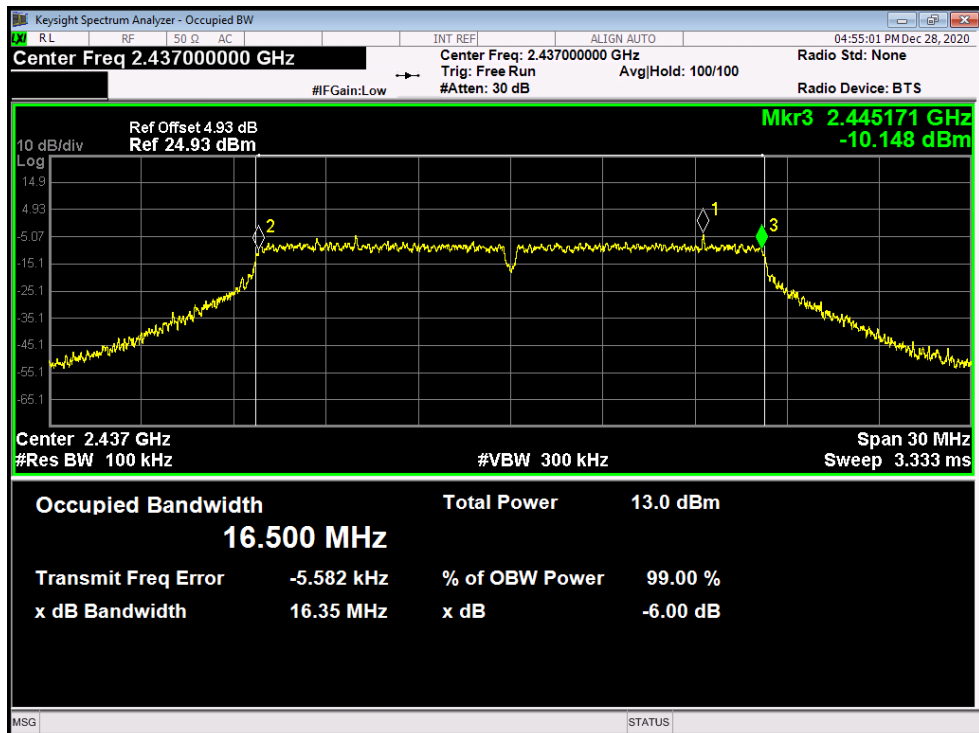
2462 MHz





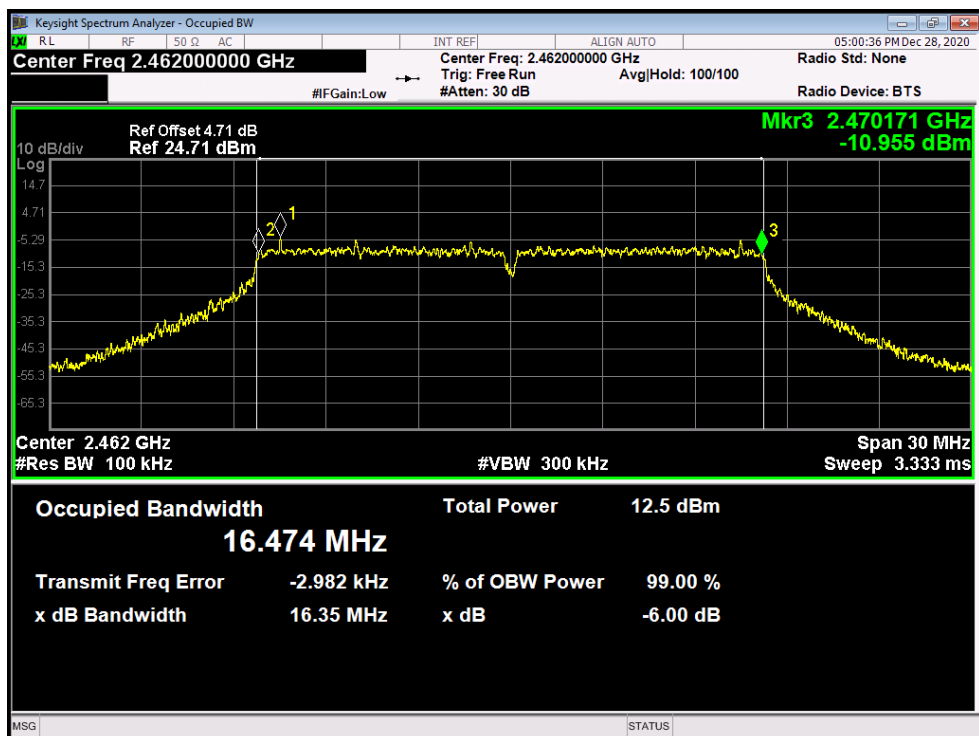
802.11G Mode

2437 MHz



802.11G Mode

2462 MHz



Temperature:	25 °C		Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz			
Test Mode:	TX 802.11N(HT20) Mode(Module: EUS_v143)			
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)	
2412	17.31	/	>=0.5	
2437	17.61	/		
2462	17.24	/		
802.11N(HT20) Mode				
2412 MHz				

Keysight Spectrum Analyzer - Occupied BW

RL

RF

50 Ω

AC

INT REF

ALIGN AUTO

05:06:22 PM Dec 28, 2020

Center Freq 2.412000000 GHz

#IFGain:Low

Center Freq: 2.412000000 GHz

Trig: Free Run

Avg/Hold: 100/100

Radio Std: None

Radio Device: BTS

10 dB/div

Log

Ref Offset 4.99 dB

Ref 24.99 dBm

Mkr3 2.420666 GHz

-12.324 dBm

Center 2.412 GHz

#Res BW 100 kHz

#VBW 300 kHz

Span 30 MHz

Sweep 3.333 ms

Occupied Bandwidth

17.655 MHz

Total Power

11.3 dBm

Transmit Freq Error

11.930 kHz

% of OBW Power

99.00 %

x dB Bandwidth

17.31 MHz

x dB

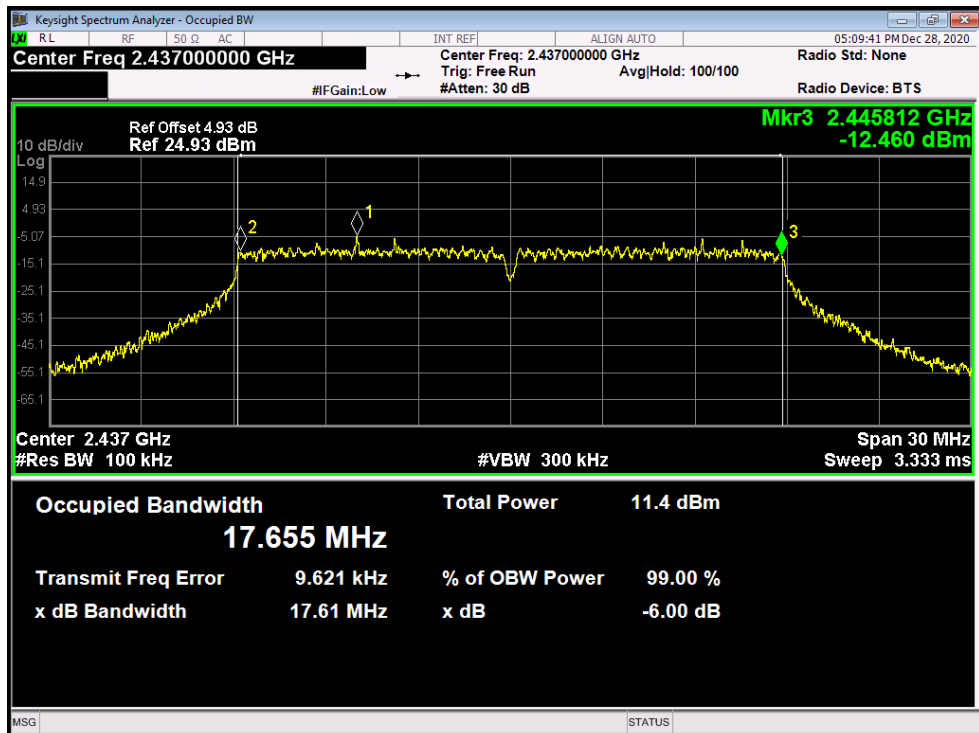
-6.00 dB

MSG

STATUS

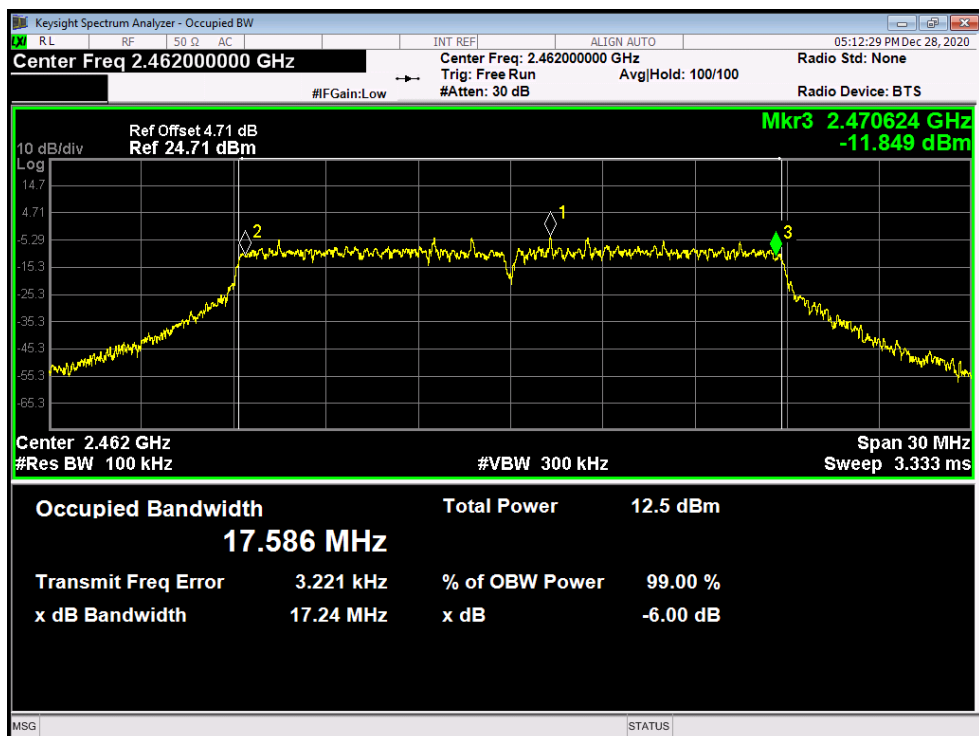
802.11N(HT20) Mode

2437 MHz



802.11N(HT20) Mode

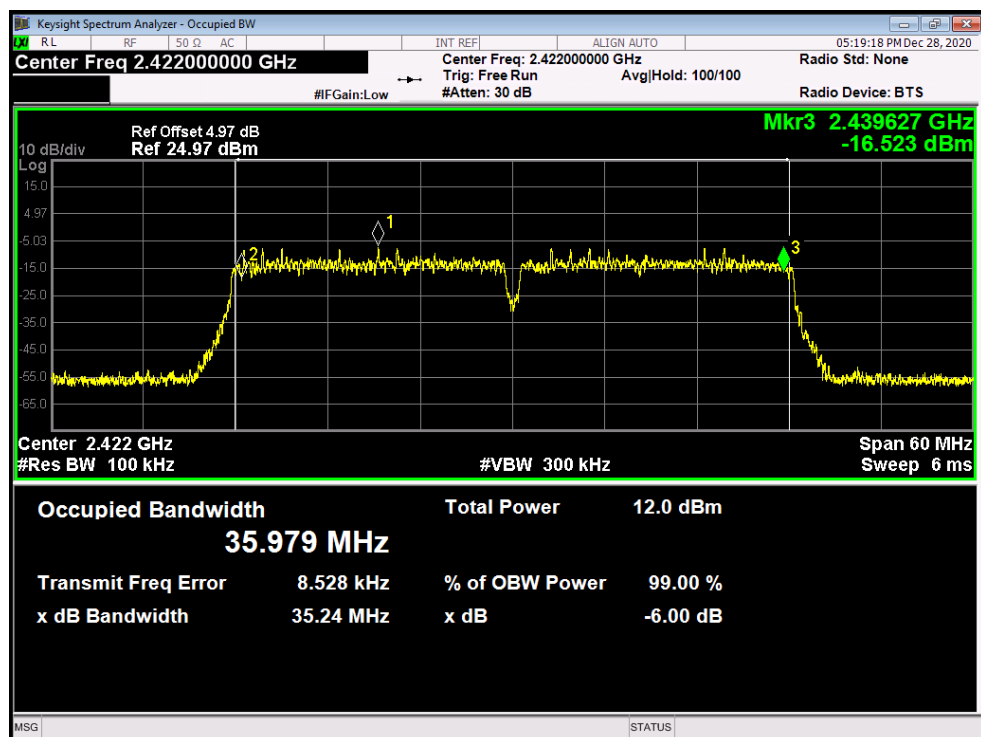
2462 MHz



Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11N(HT40) Mode(Module: EUS_v143)		
Channel frequency (MHz)	6dB Bandwidth (MHz)	99% Bandwidth (MHz)	Limit (MHz)
2422	35.24	/	>=0.5
2437	35.66	/	
2452	35.61	/	

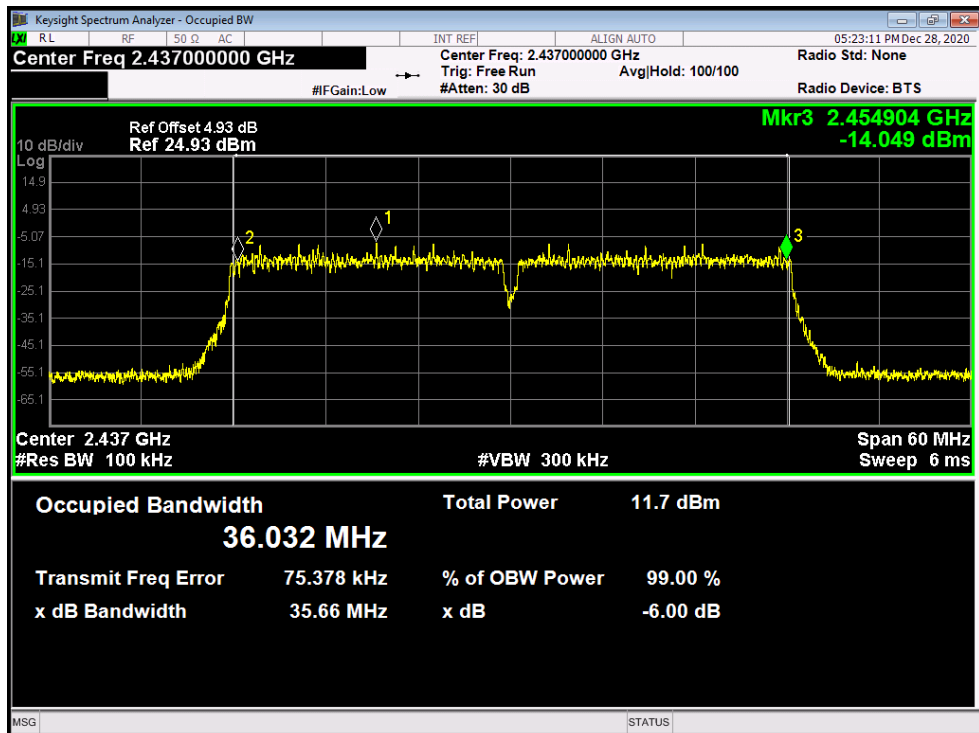
802.11N(HT40) Mode

2422 MHz



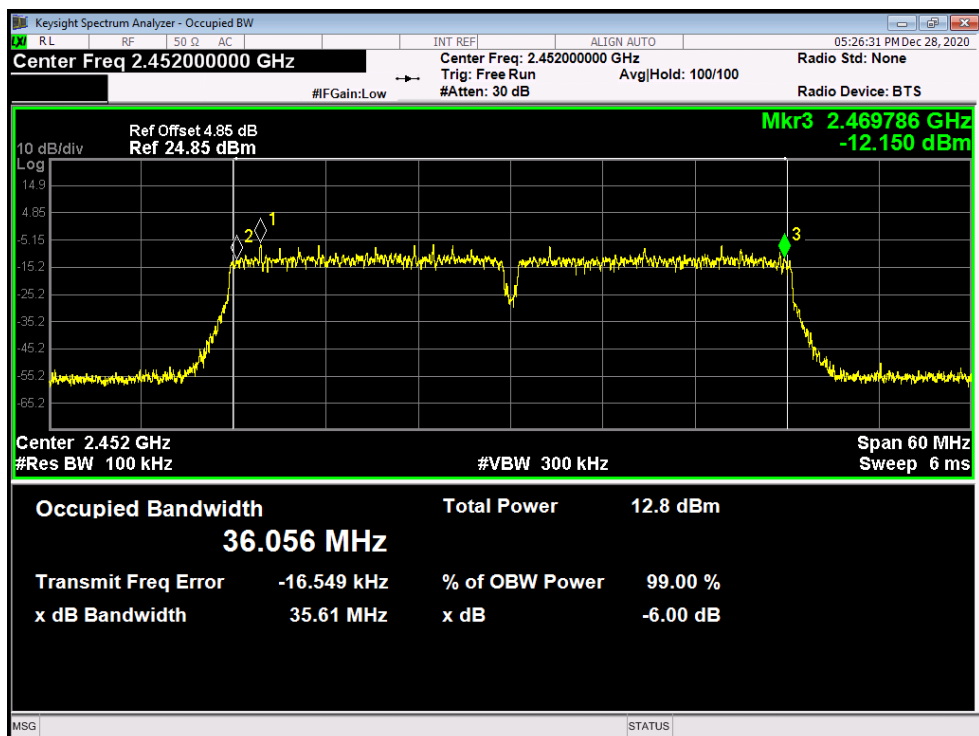
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz



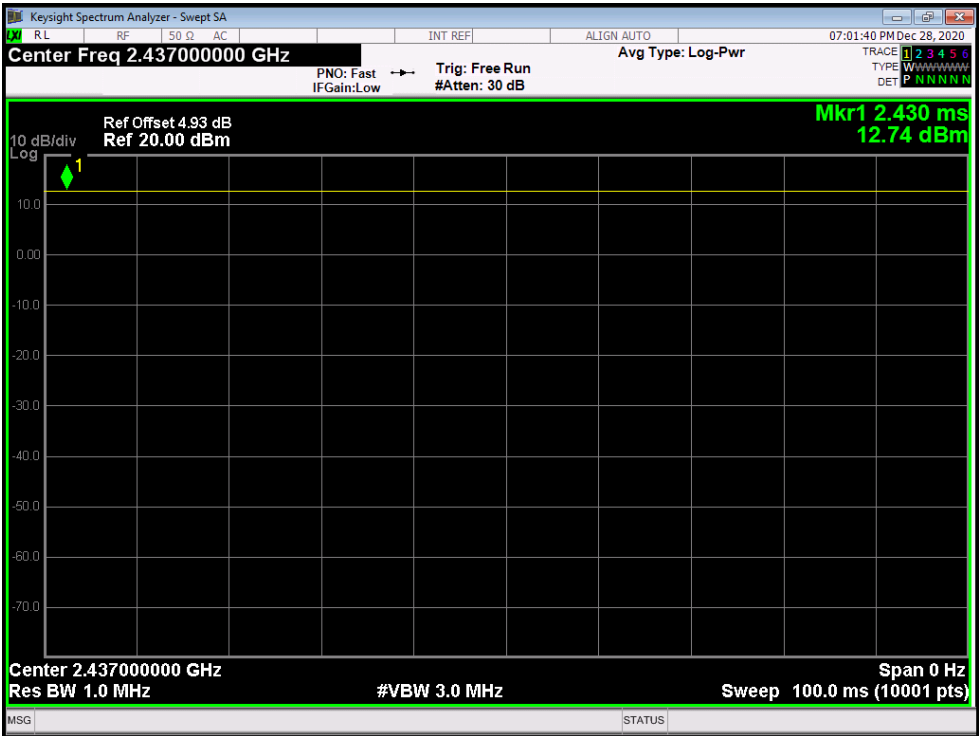
Attachment E-- Peak Output Power Test Data

Test Conditions:		Continuous Transmitting Mode(Module: 6032)	
Temperature:		25 ℃	Relative Humidity: 55%
Test Voltage:		AC 120V/60Hz	
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
802.11b	2412	9.24	30
	2437	9.18	
	2462	9.16	
802.11g	2412	9.09	
	2437	9.13	
	2462	9.09	
802.11n (HT20)	2412	9.13	
	2437	9.15	
	2462	9.26	
802.11n (HT40)	2422	9.14	
	2437	9.07	
	2452	9.15	
Result: PASS			

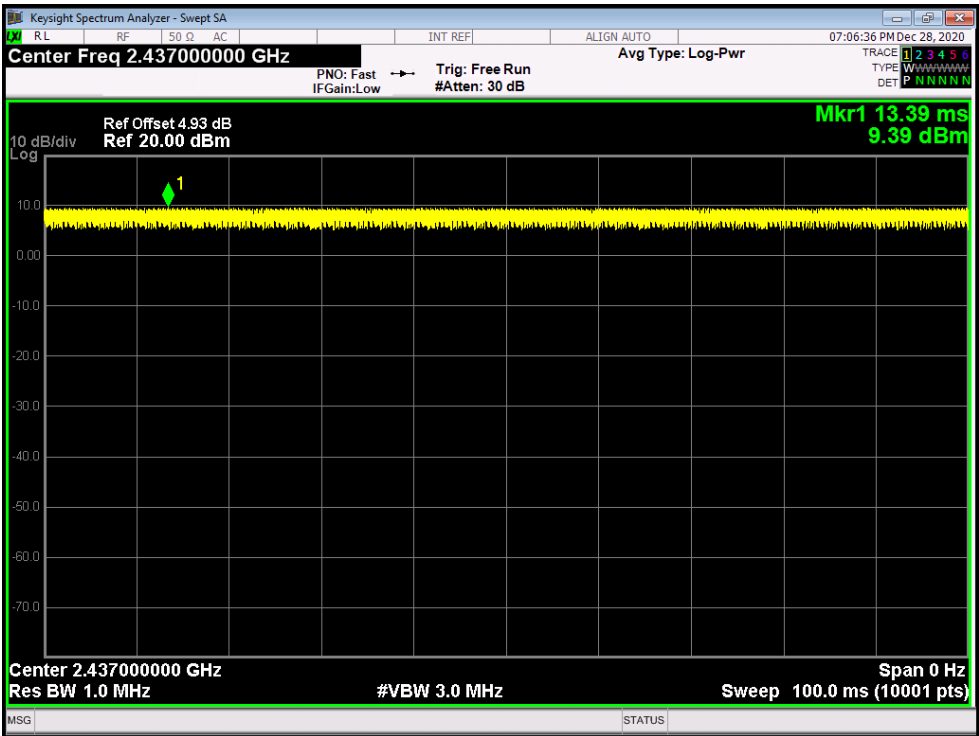
Test Conditions:		Continuous Transmitting Mode(Module: EUS_v143)	
Temperature:	25 ℃	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
802.11b	2412	9.35	30
	2437	9.46	
	2462	9.47	
802.11g	2412	9.32	
	2437	9.38	
	2462	9.27	
802.11n (HT20)	2412	9.19	
	2437	9.18	
	2462	9.20	
802.11n (HT40)	2422	9.15	
	2437	9.17	
	2452	9.24	
Result: PASS			

Duty Cycle		
Mode	Channel frequency (MHz)	Test Result
802.11b	2412	>98%
	2437	
	2462	
802.11g	2412	
	2437	
	2462	
802.11n (HT20)	2412	
	2437	
	2462	
802.11n (HT40)	2422	
	2437	
	2452	
Please see below plots		

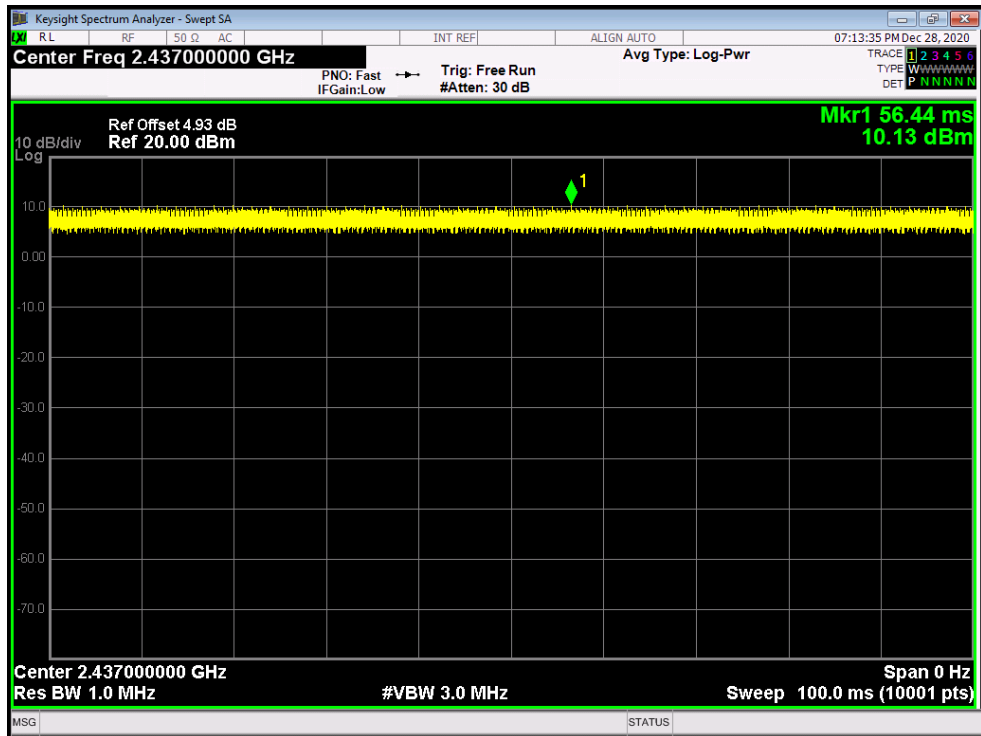
802.11b 2437MHz Module: 6032



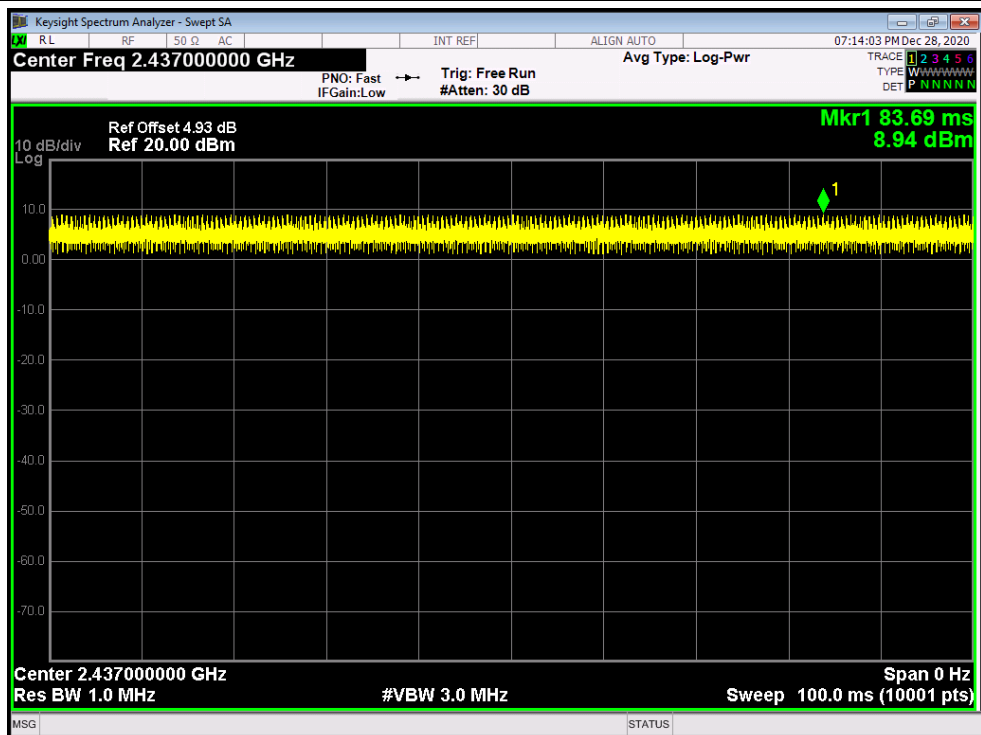
802.11g 2437MHz Module: 6032



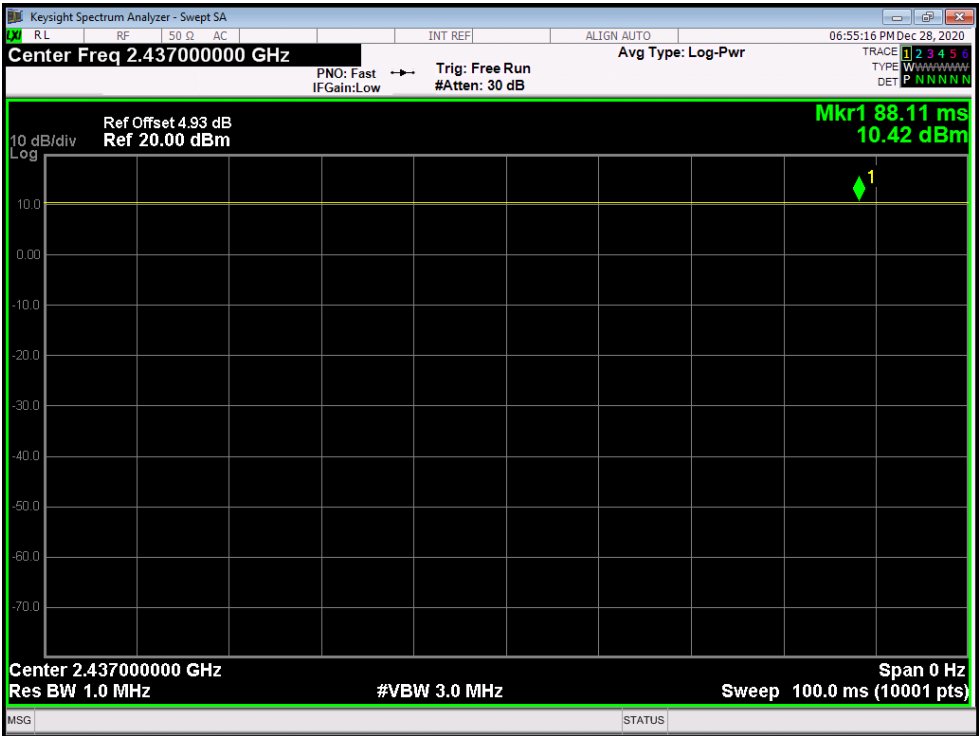
802.11n(HT20) 2437MHz Module: 6032



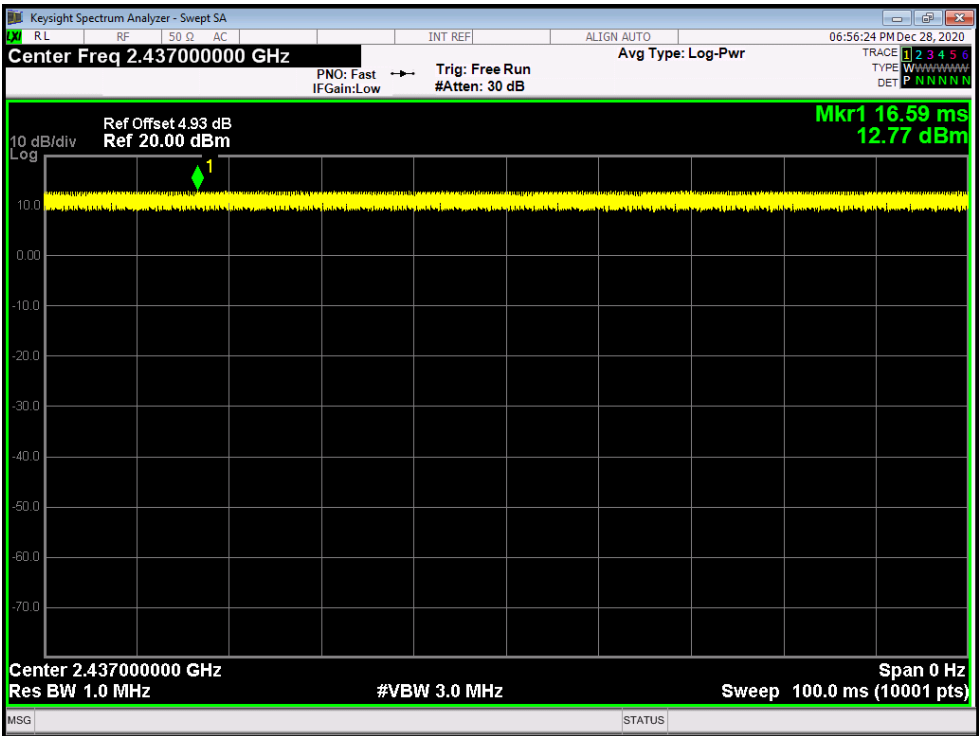
802.11n(HT40) 2437MHz Module: 6032



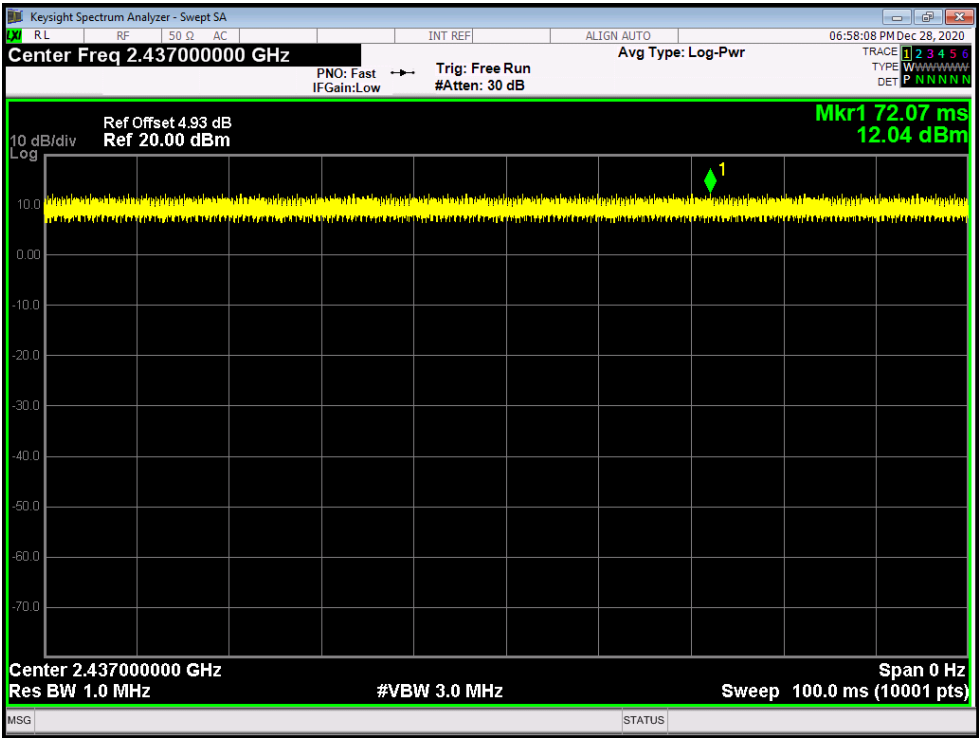
802.11b 2437MHz Module: EUS_v143



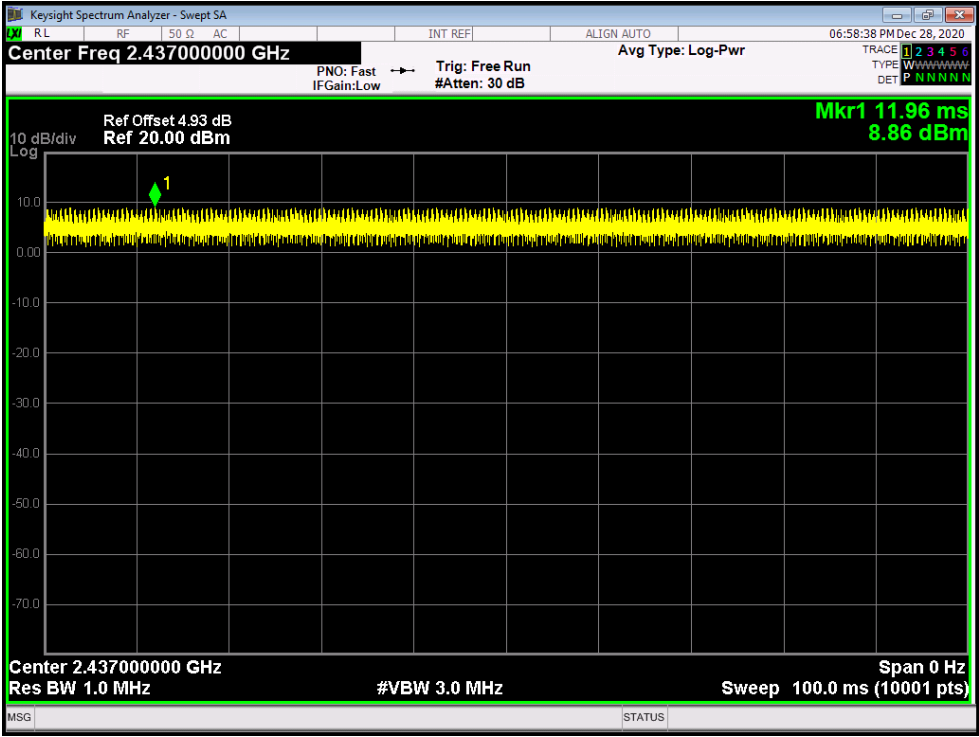
802.11g 2437MHz Module: EUS_v143



802.11n(HT20) 2437MHz Module: EUS_v143



802.11n(HT40) 2437MHz Module: EUS_v143



Attachment F-- Power Spectral Density Test Data

Temperature:	25 °C	Relative Humidity:	55%
Test Voltage:	AC 120V/60Hz		
Test Mode:	TX 802.11B Mode(Module: 6032)		
Channel Frequency (MHz)	Power Density (dBm/3 kHz)	Limit (dBm/3 kHz)	
2412	-14.346	8	
2437	-12.570		
2462	-12.573		
802.11B Mode			
2412 MHz			

Keysight Spectrum Analyzer - Swept SA

RL

RF

50 Ω

AC

INT REF

ALIGN AUTO

05:42:25 PM Dec 28, 2020

Center Freq 2.41200000 GHz

PNO: Fast

IFGain: Low

Trig: Free Run

#Atten: 30 dB

Avg Type: Log-Pwr

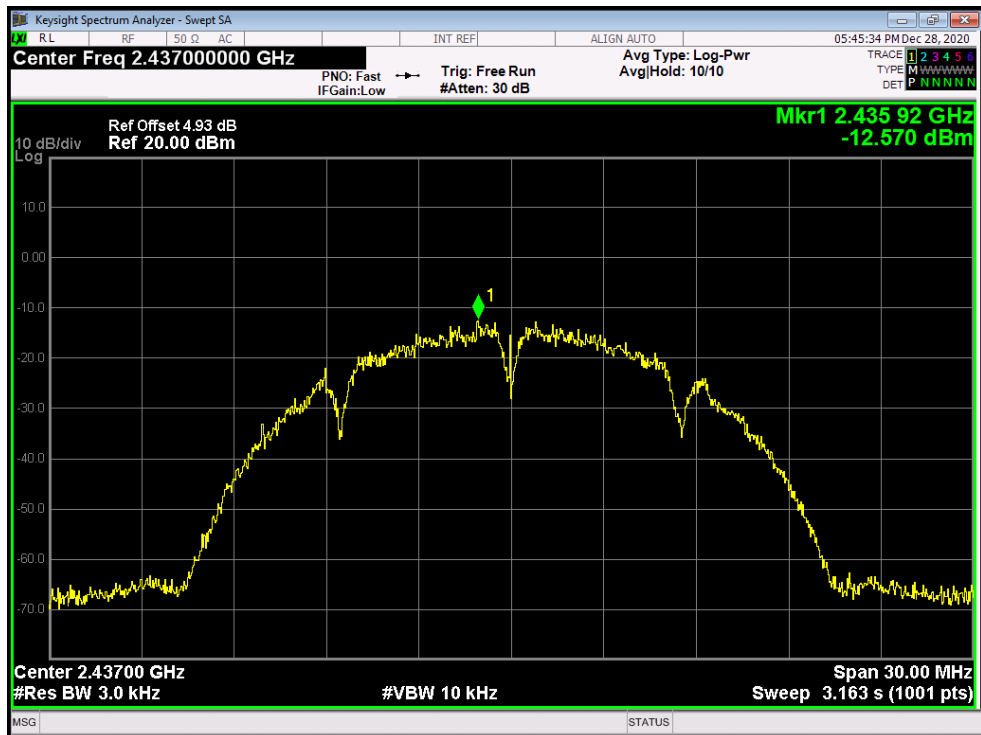
Avg/Hold: 10/10

TRACE 1 2 3 4 5 6

TYPE M

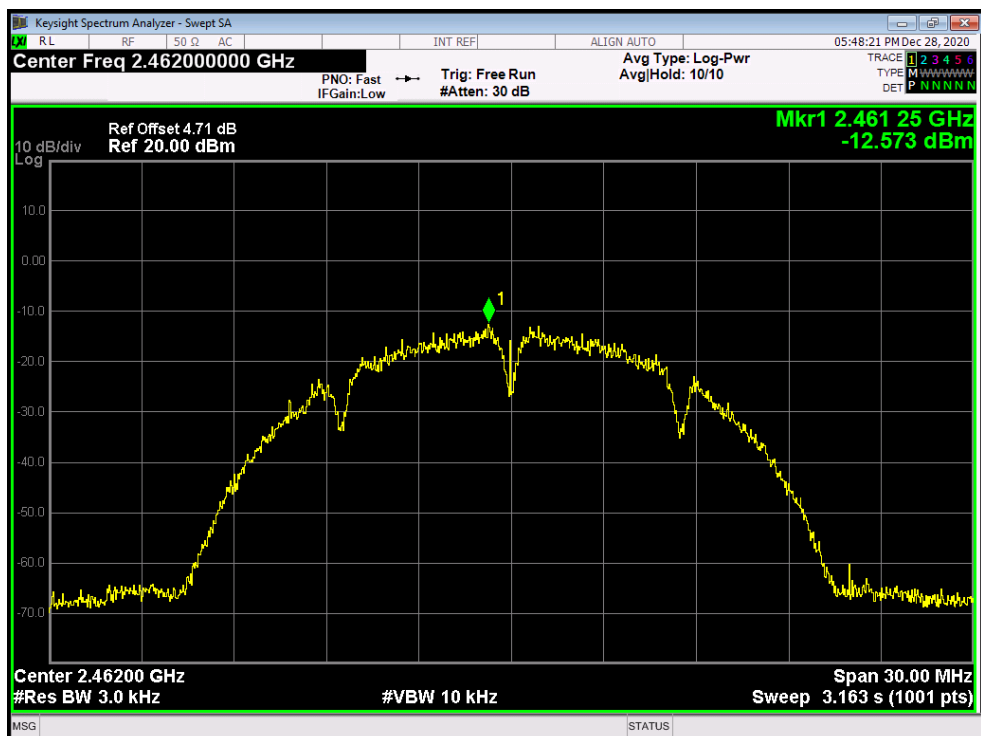
802.11B Mode

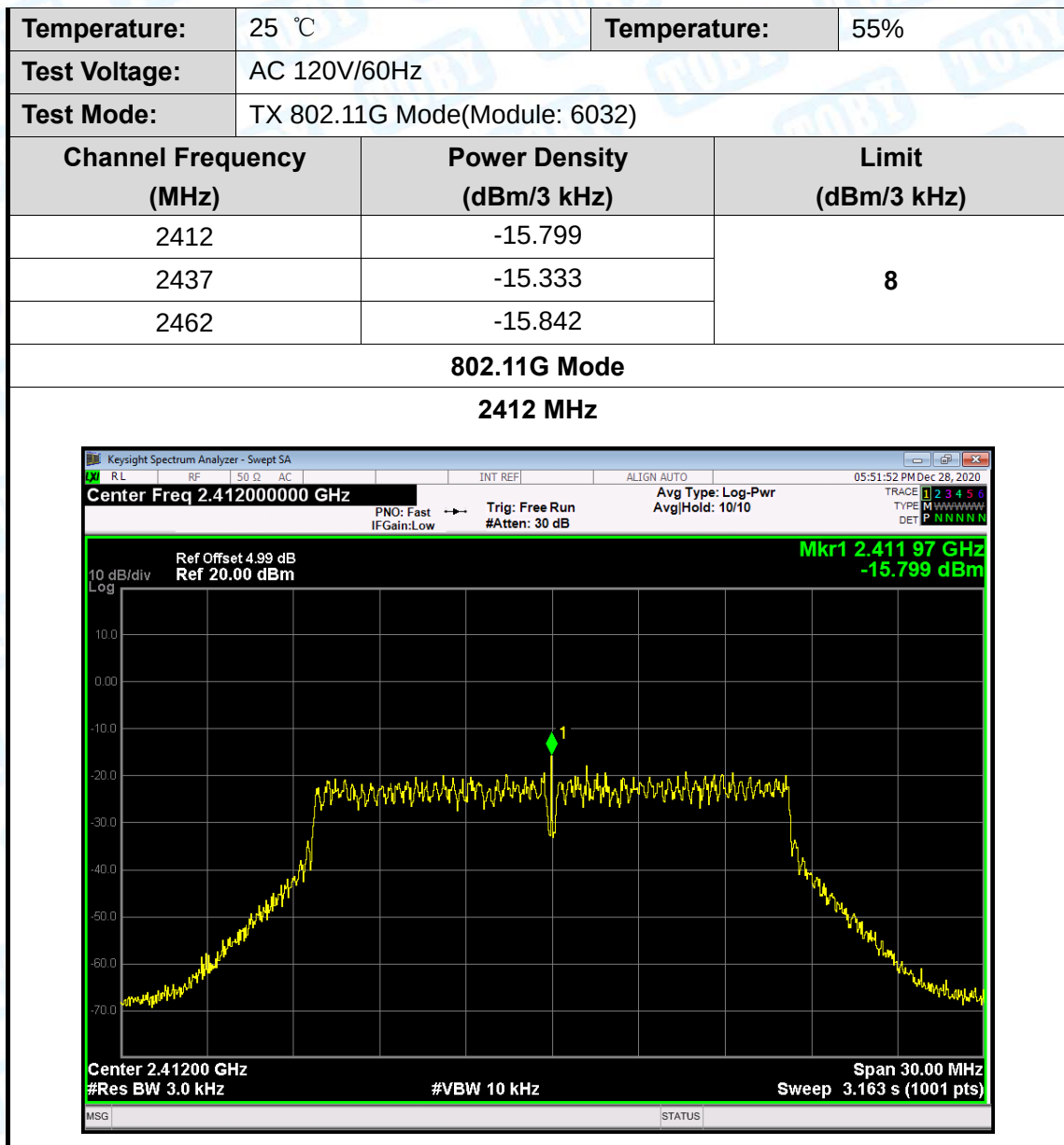
2437 MHz



802.11B Mode

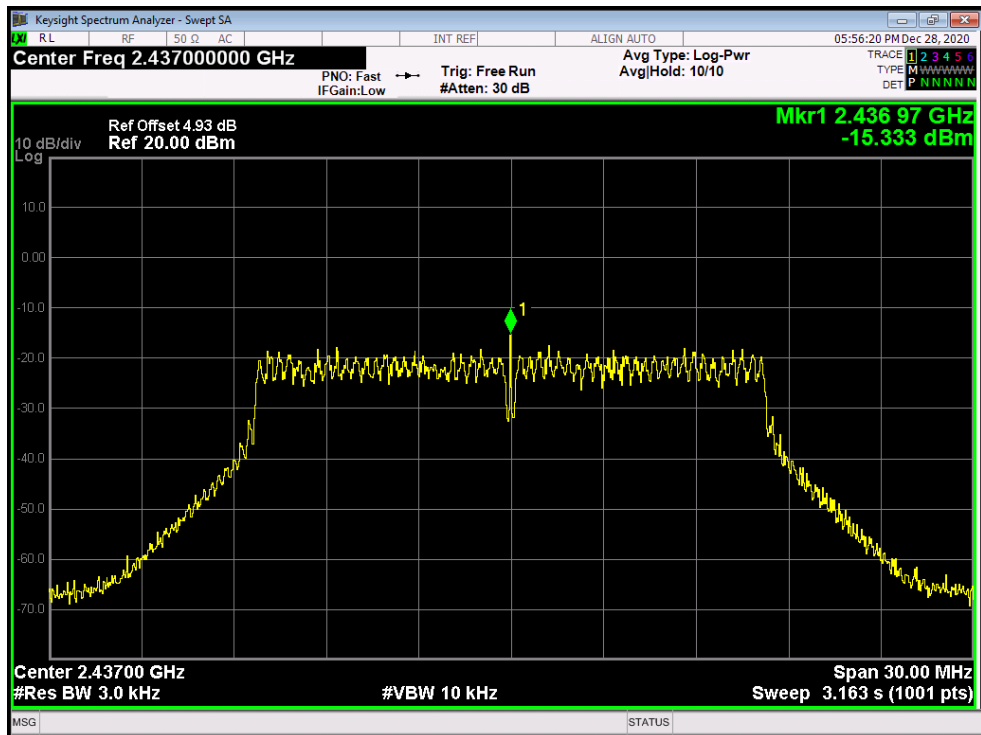
2462 MHz





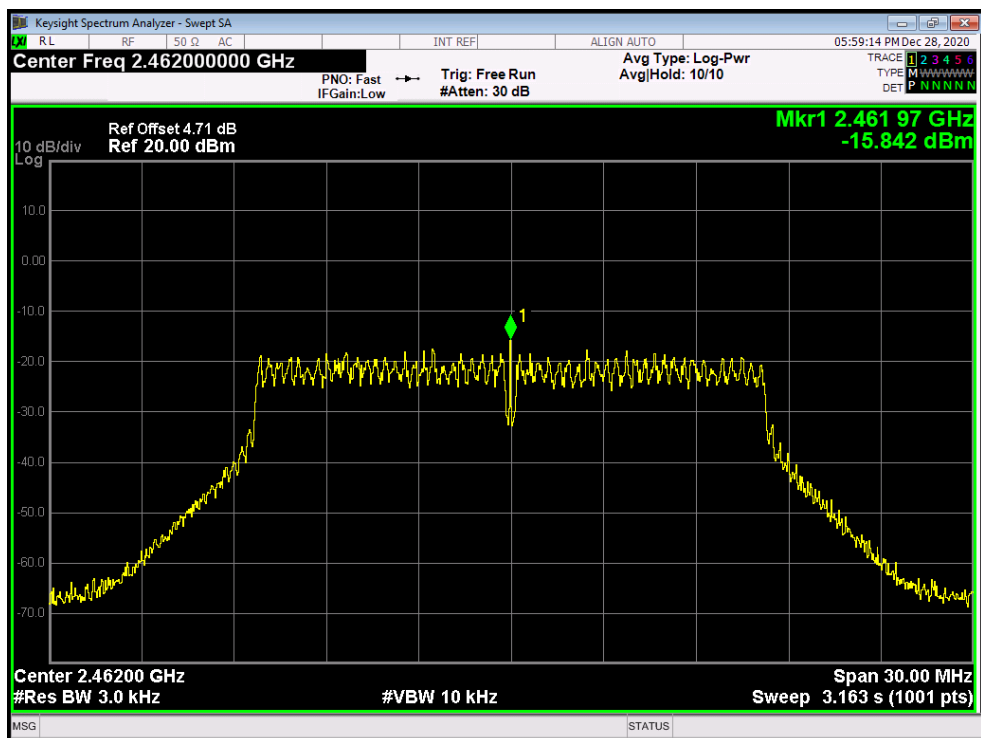
802.11G Mode

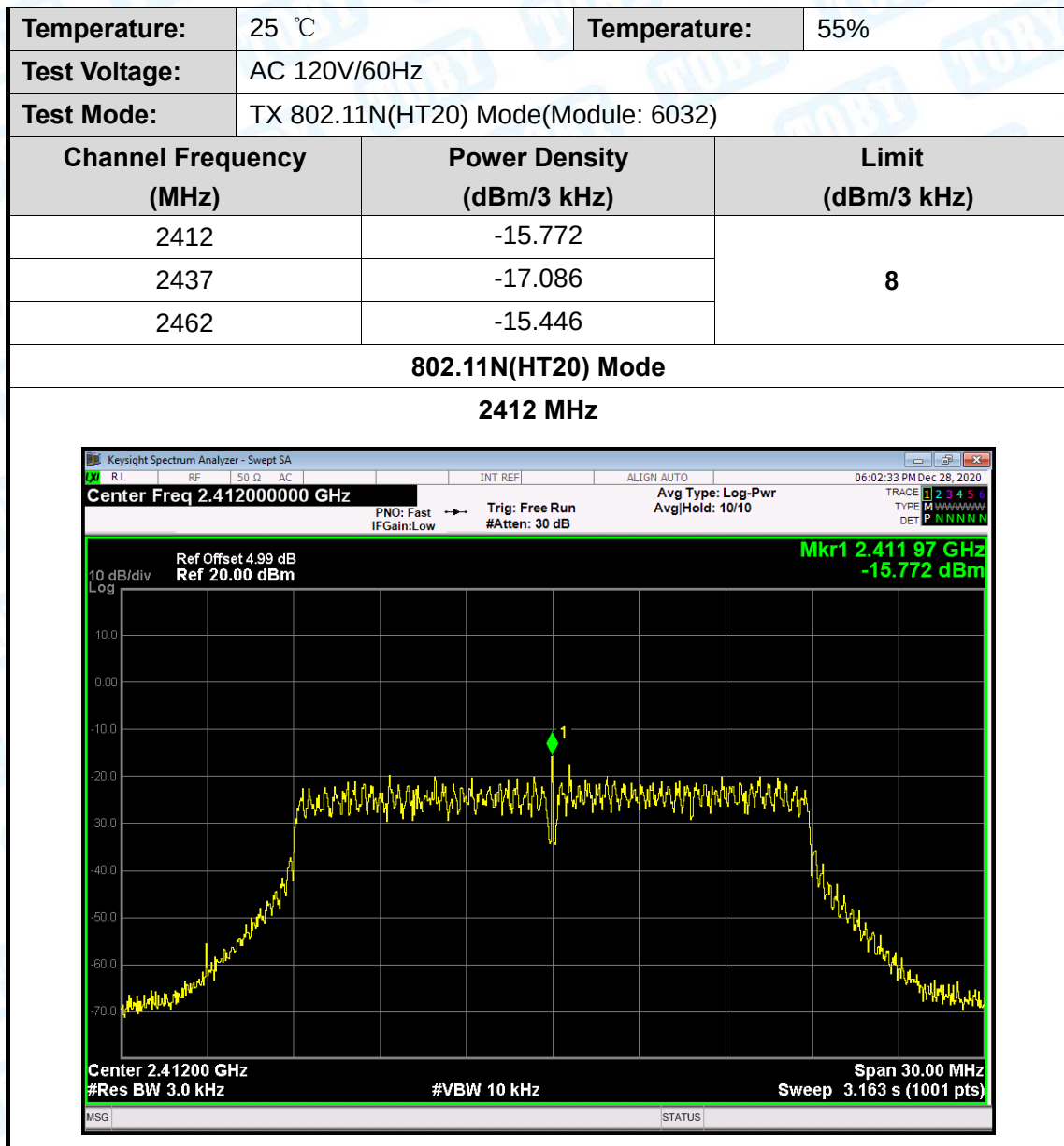
2437 MHz



802.11G Mode

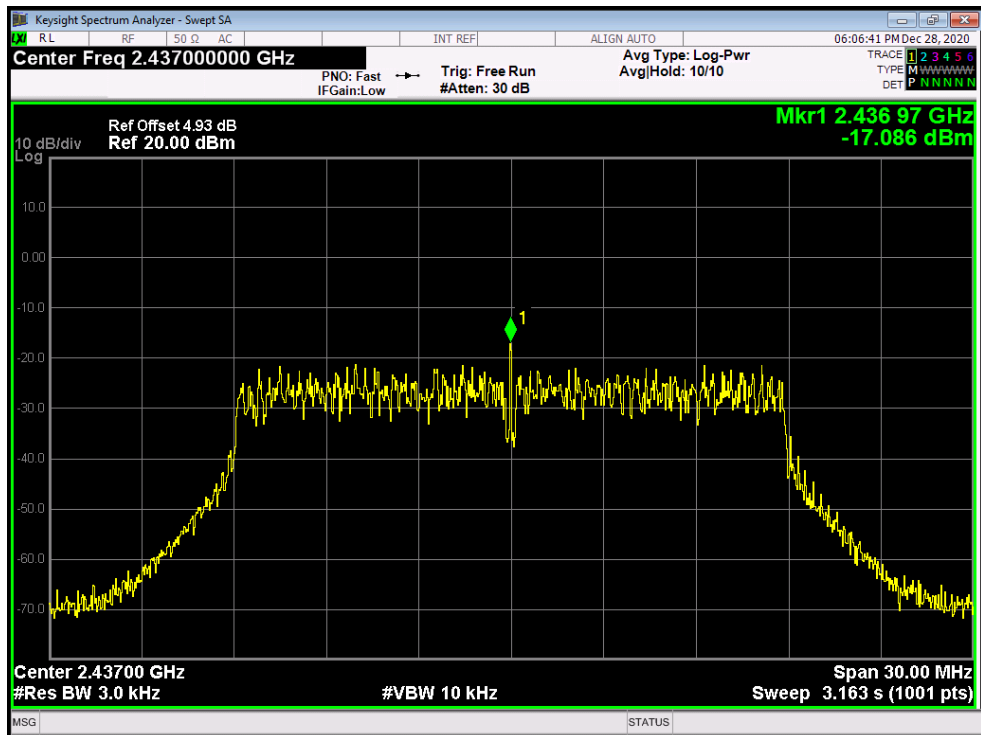
2462 MHz





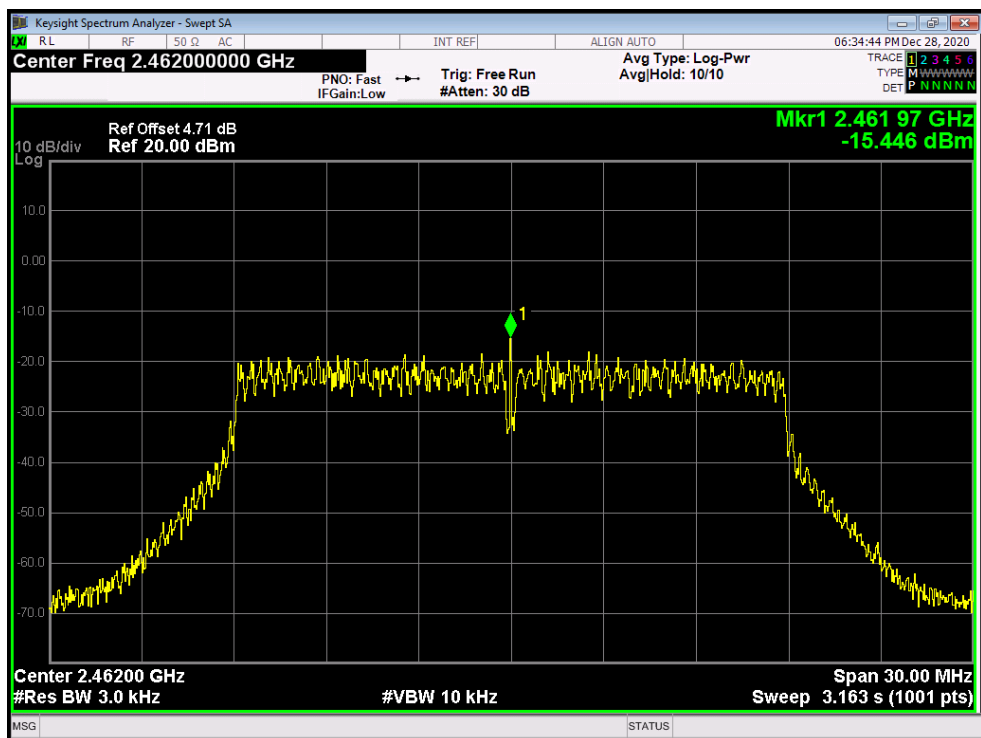
802.11N(HT20) Mode

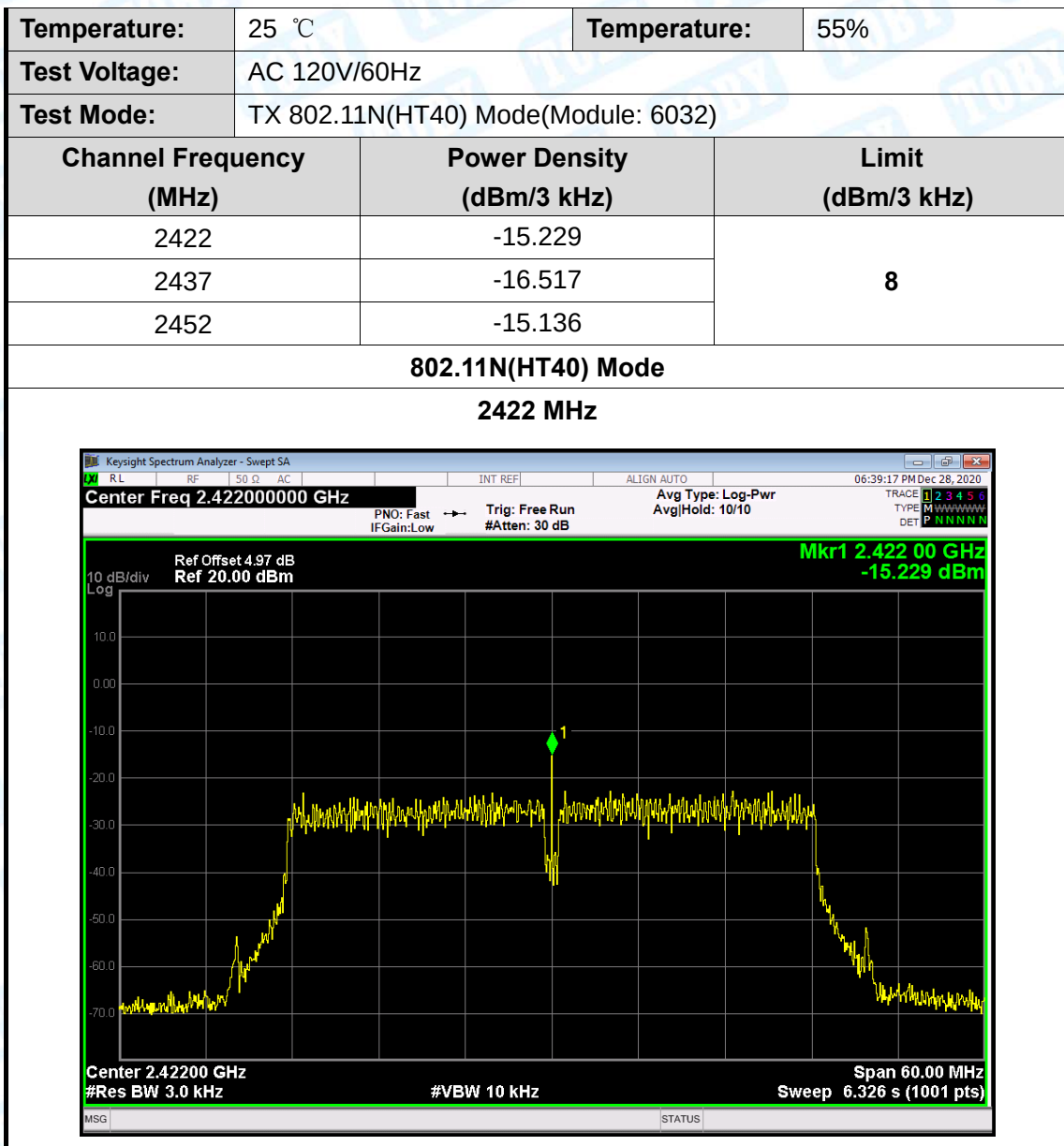
2437 MHz



802.11N(HT20) Mode

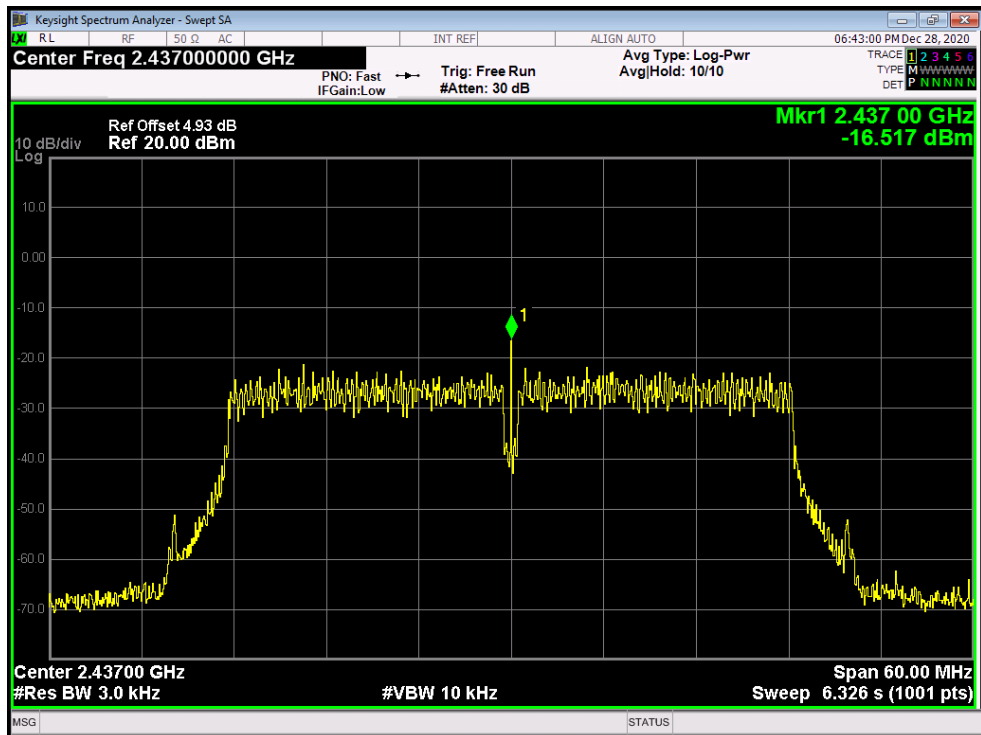
2462 MHz





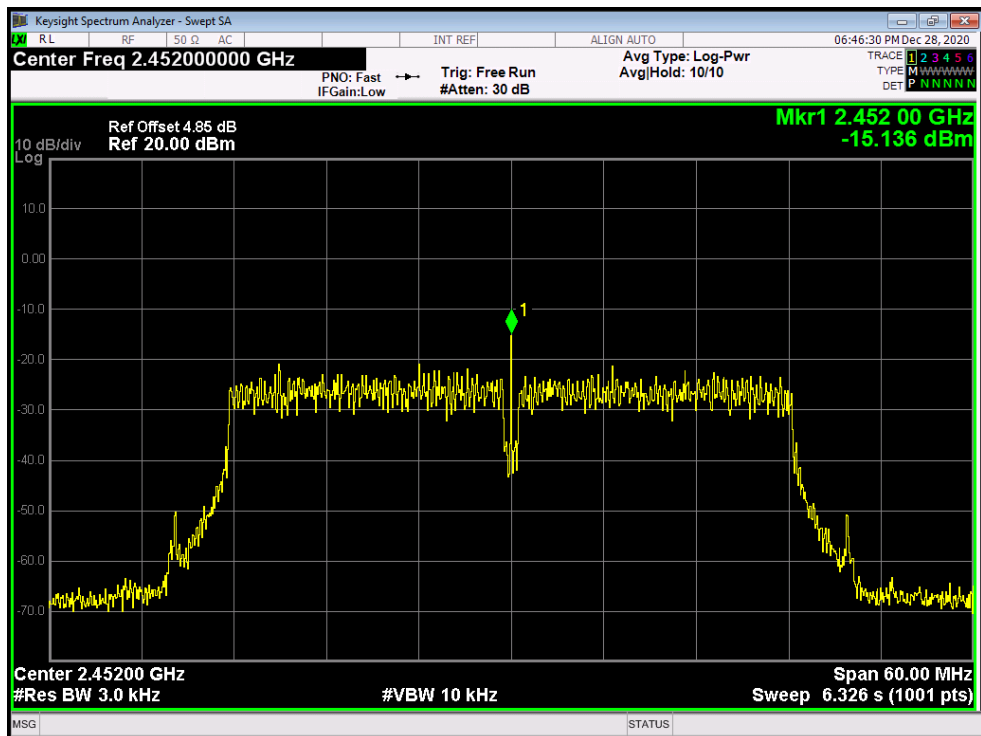
802.11N(HT40) Mode

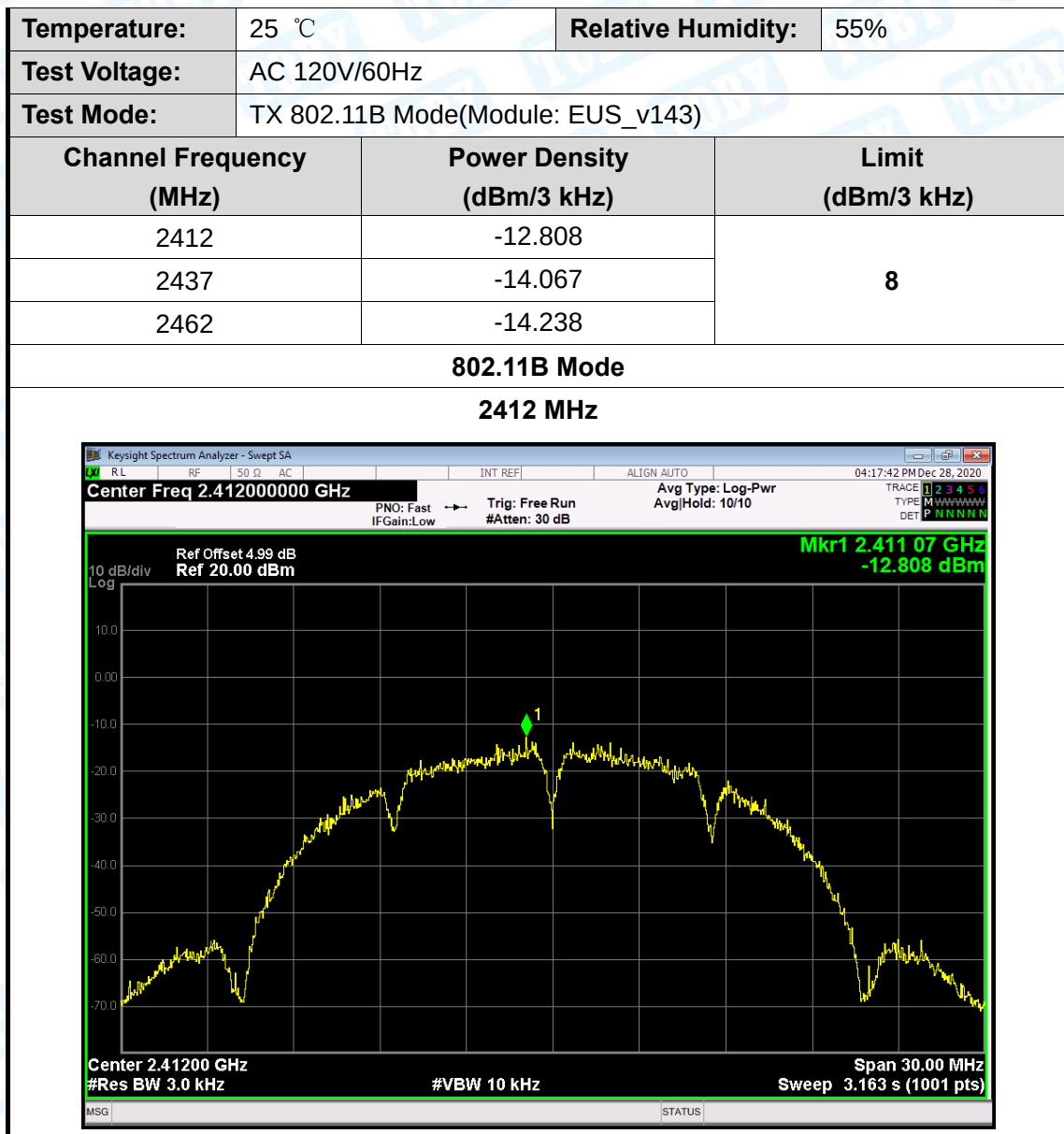
2437 MHz



802.11N(HT40) Mode

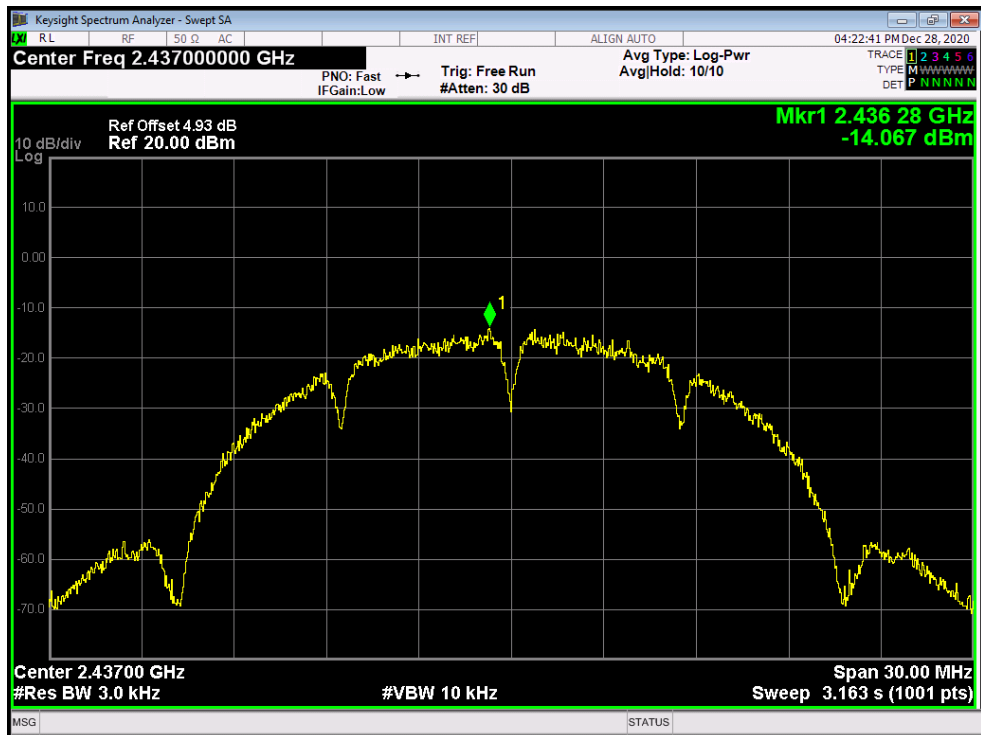
2452 MHz





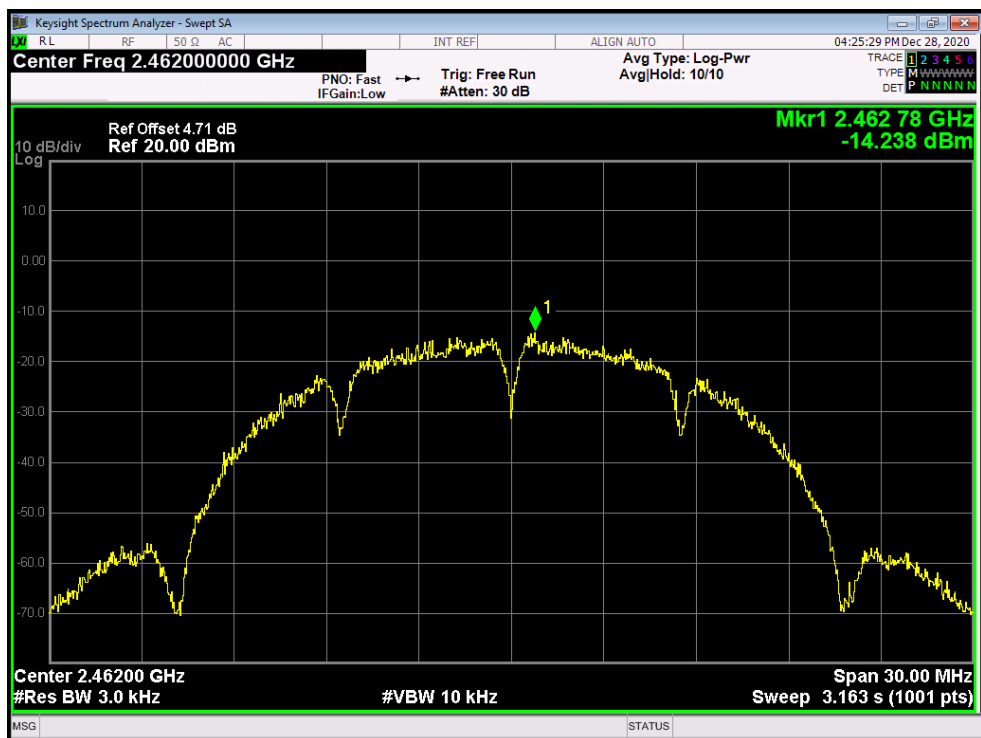
802.11B Mode

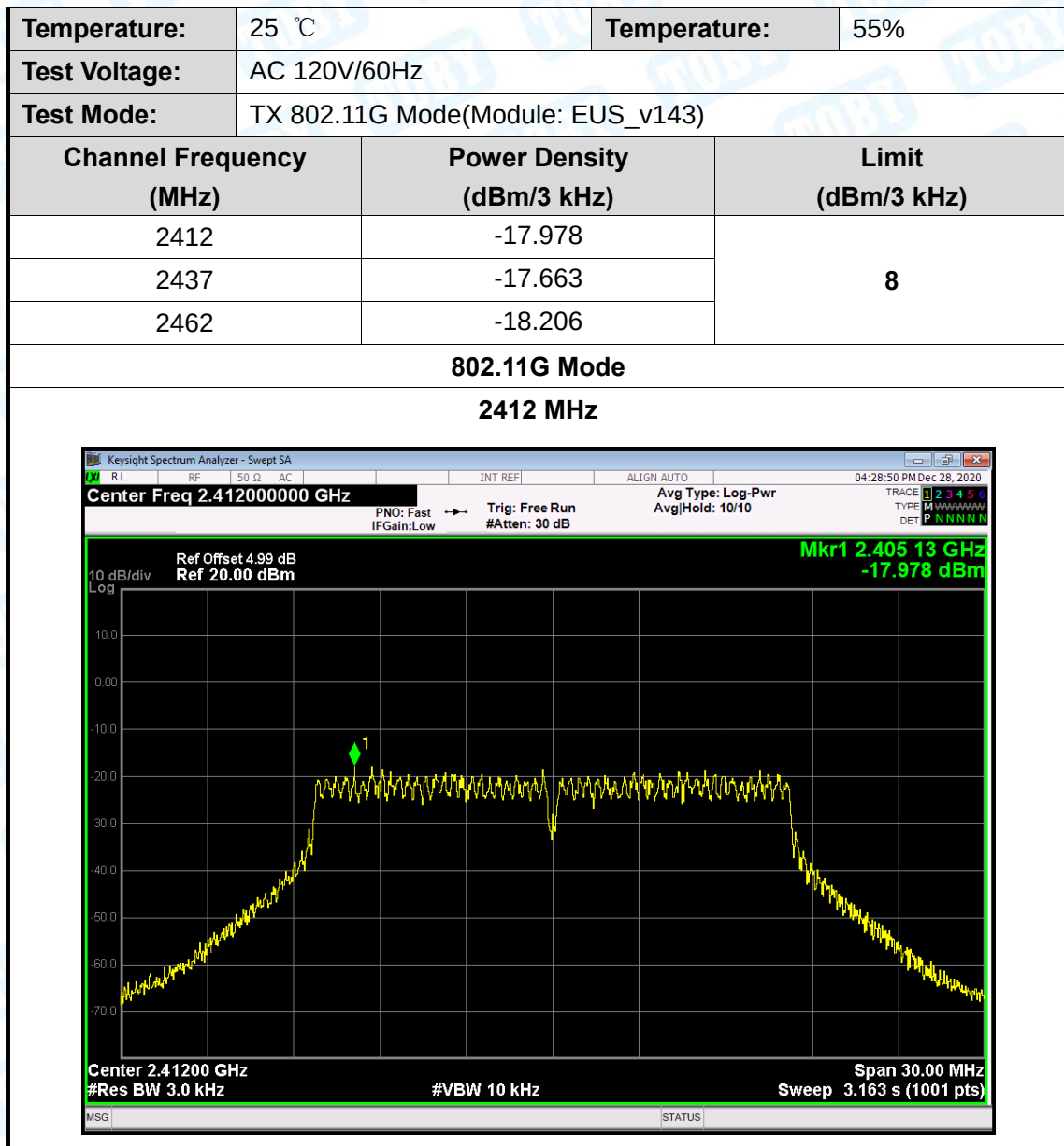
2437 MHz



802.11B Mode

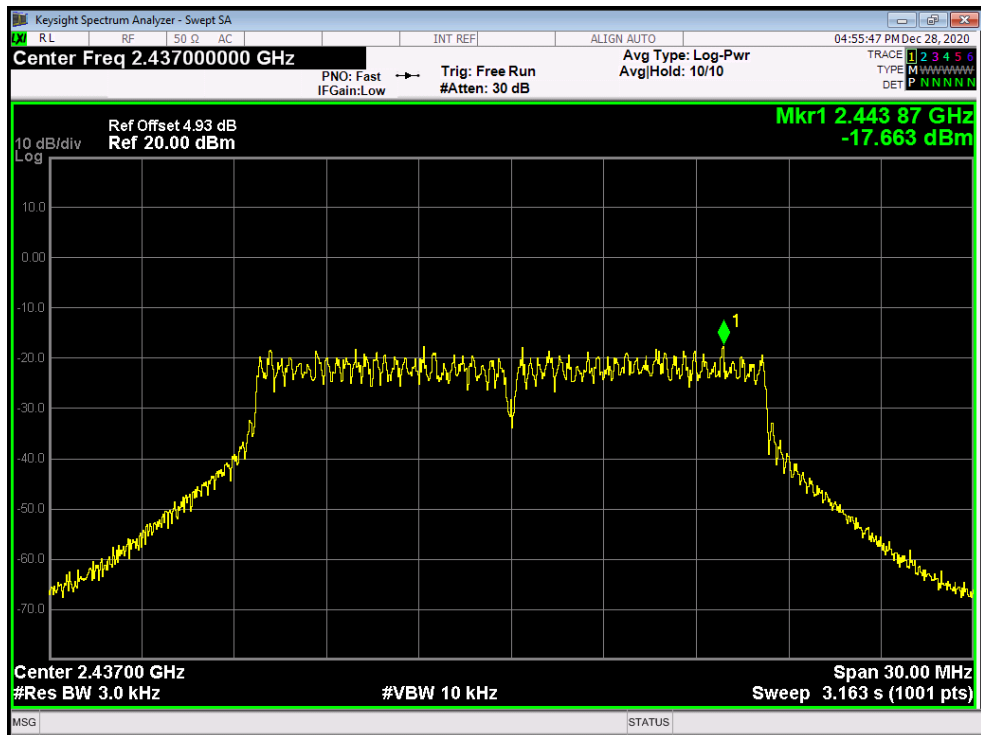
2462 MHz





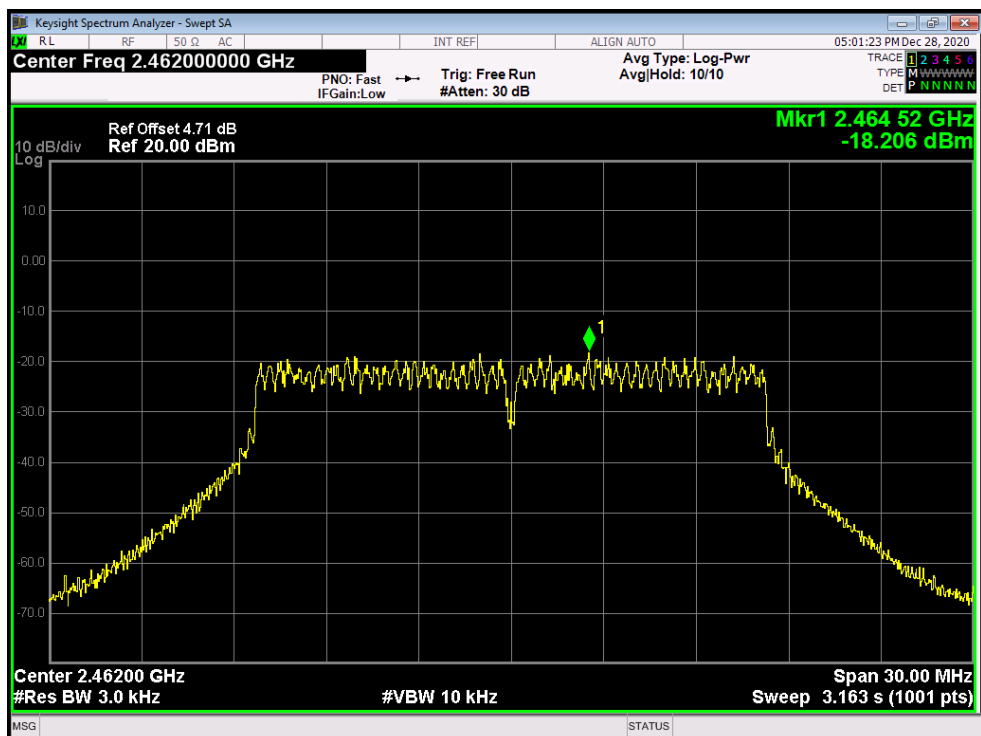
802.11G Mode

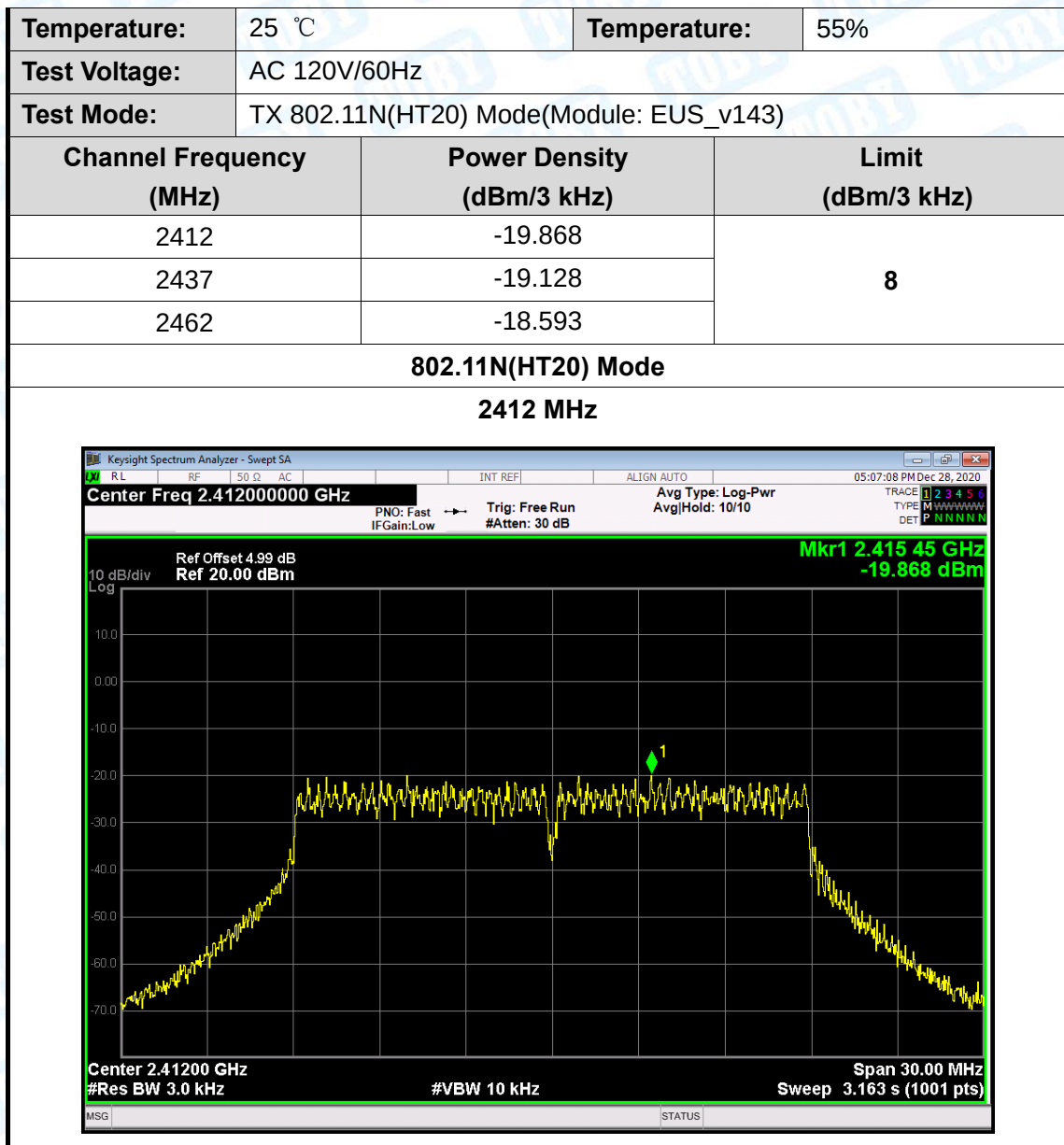
2437 MHz



802.11G Mode

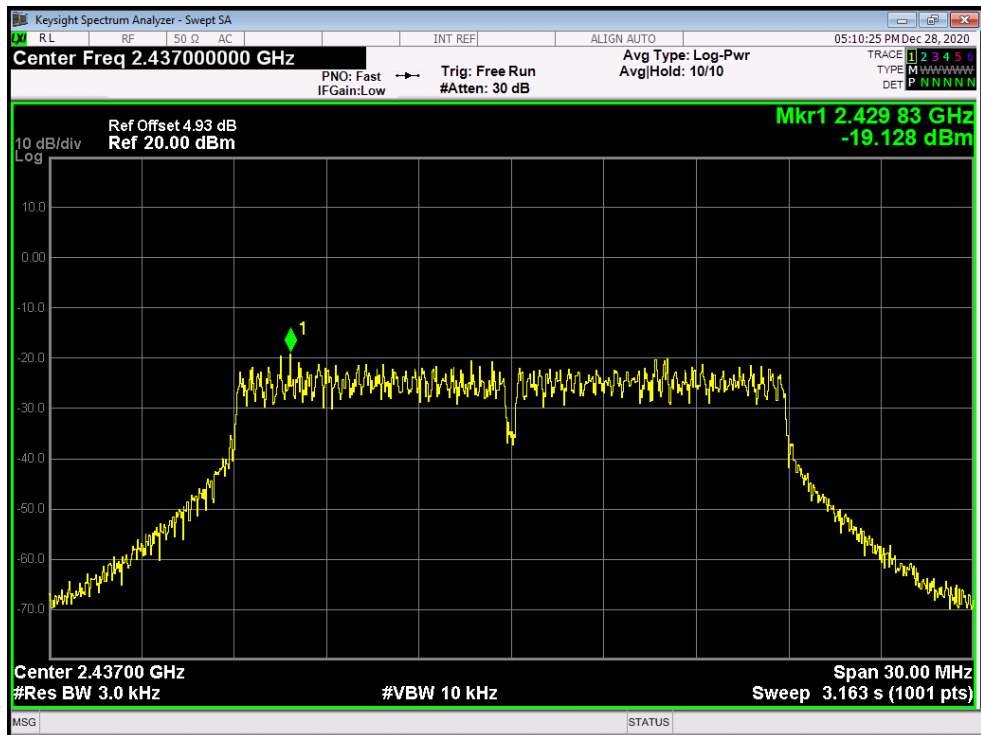
2462 MHz





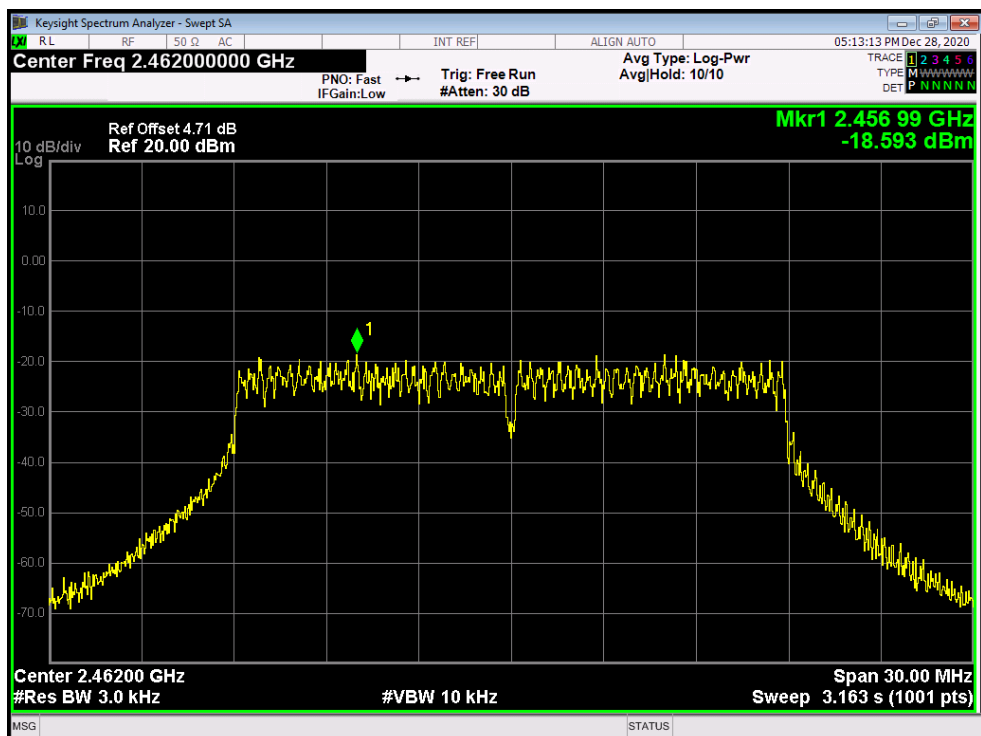
802.11N(HT20) Mode

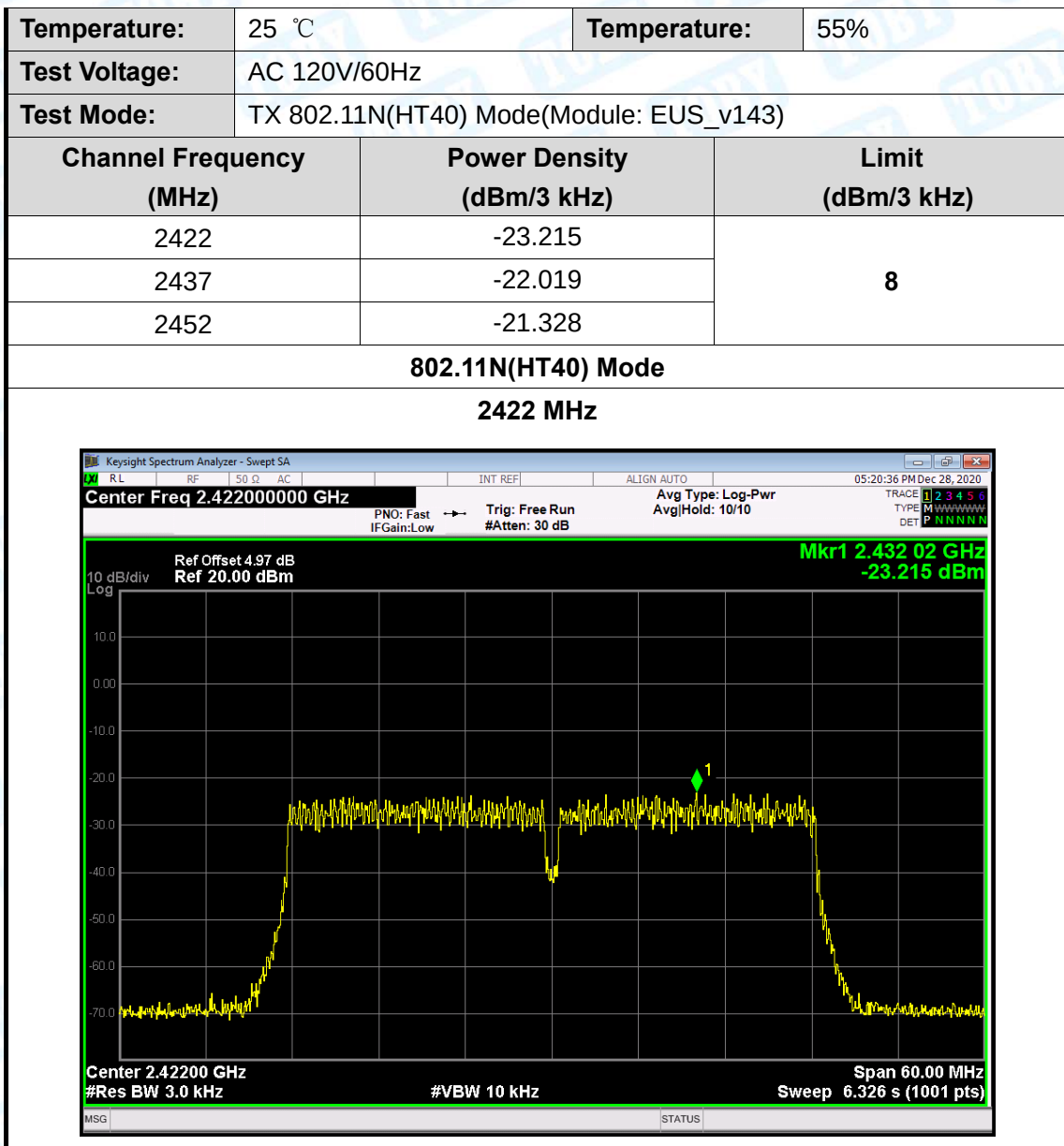
2437 MHz



802.11N(HT20) Mode

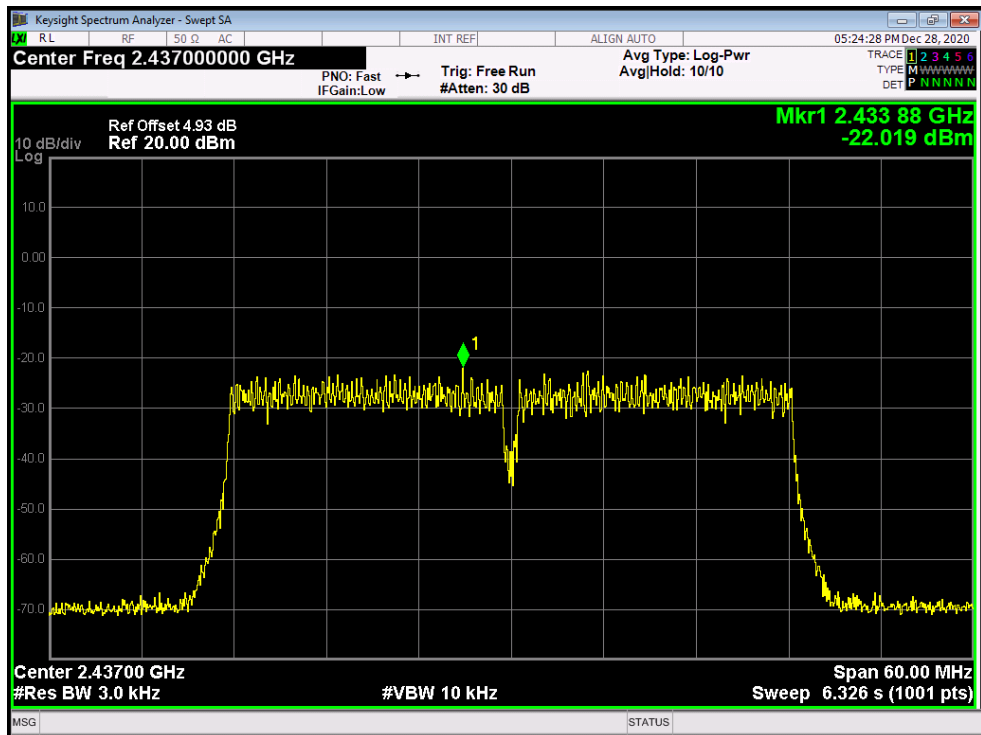
2462 MHz





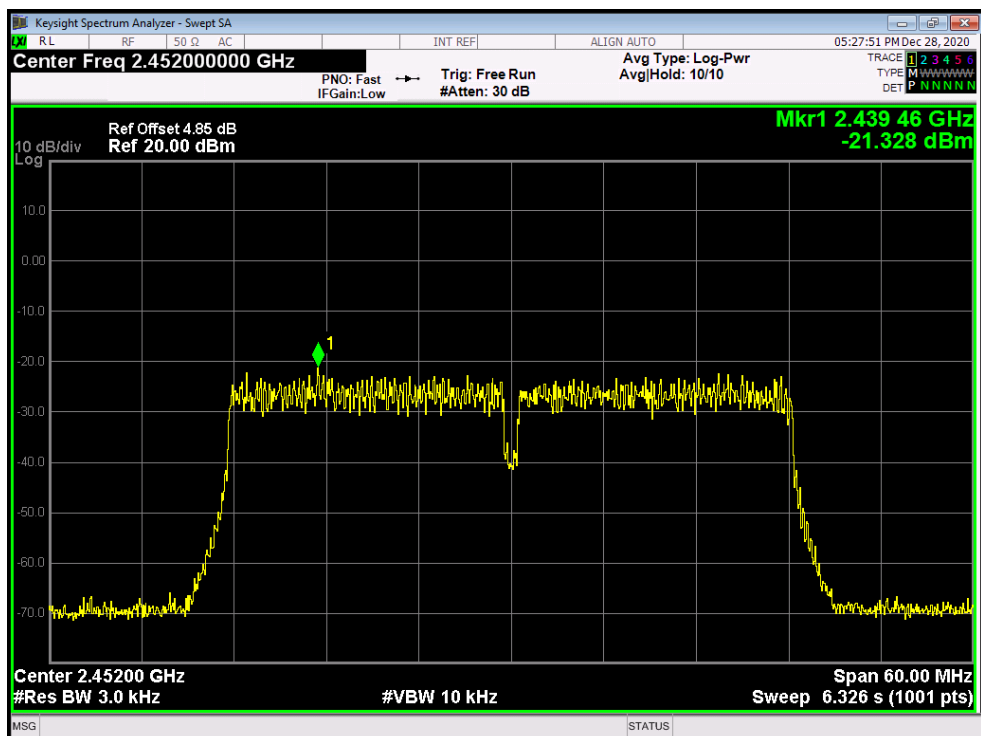
802.11N(HT40) Mode

2437 MHz



802.11N(HT40) Mode

2452 MHz



-----END OF REPORT-----