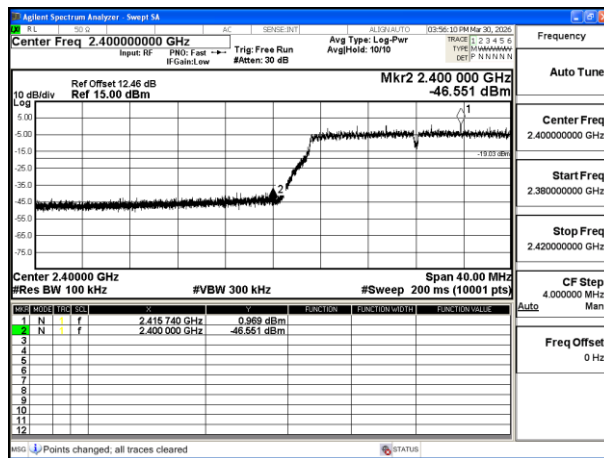




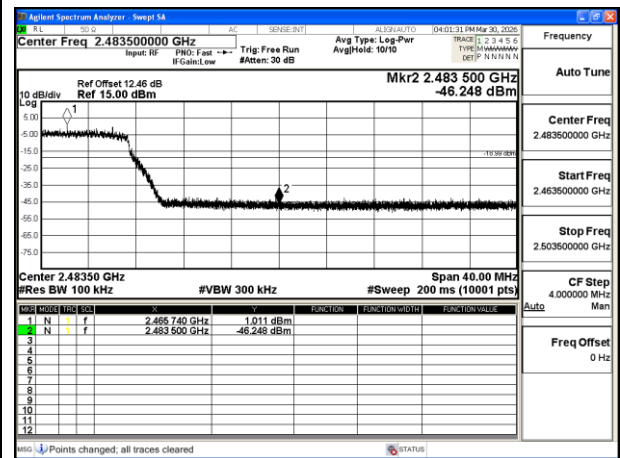
Test Report No.: RF260330B007

Test Mode: 802.11n HT20



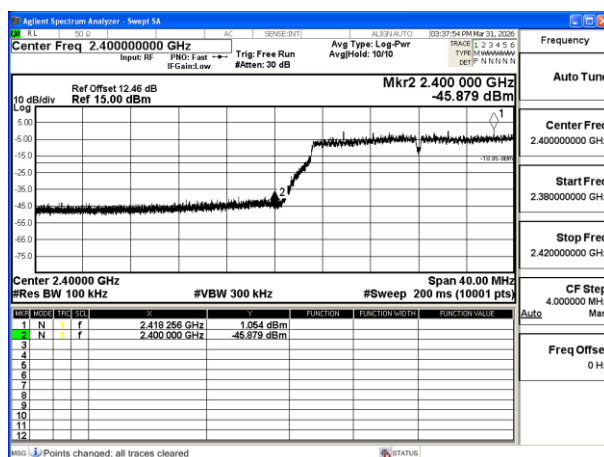
Mode:802.11n HT20 Frequency:2412MHz

Ant:3



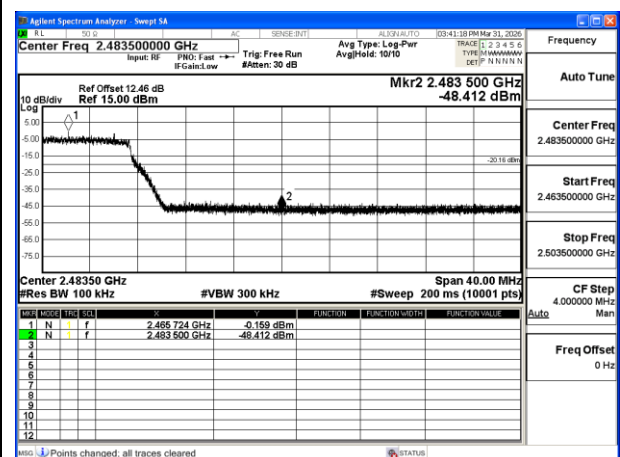
Mode:802.11n HT20 Frequency:2462MHz

Ant:3



Mode:802.11n HT20 Frequency:2412MHz

Ant:7



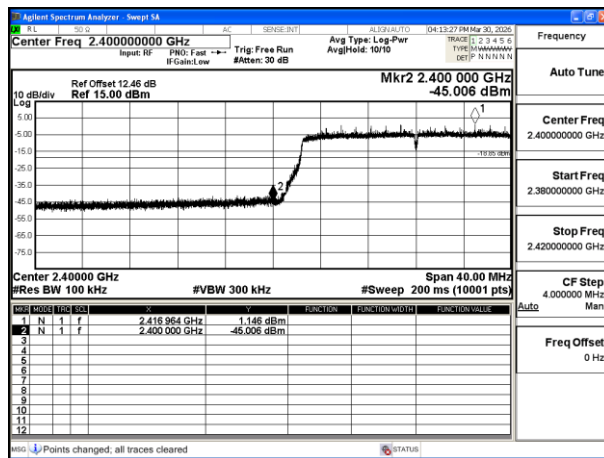
Mode:802.11n HT20 Frequency:2462MHz

Ant:7



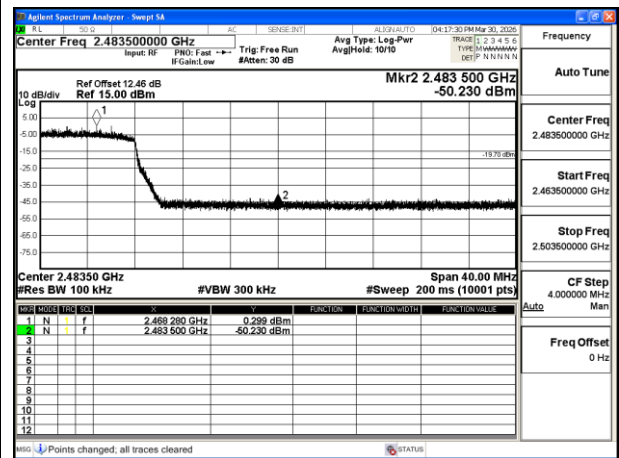
Test Report No.: RF260330B007

Test Mode: 802.11ax HE20



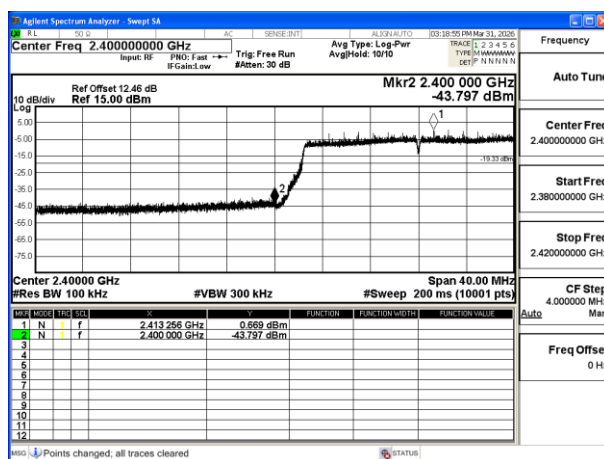
Mode:802.11ax HE20 Frequency:2412MHz

Ant:3



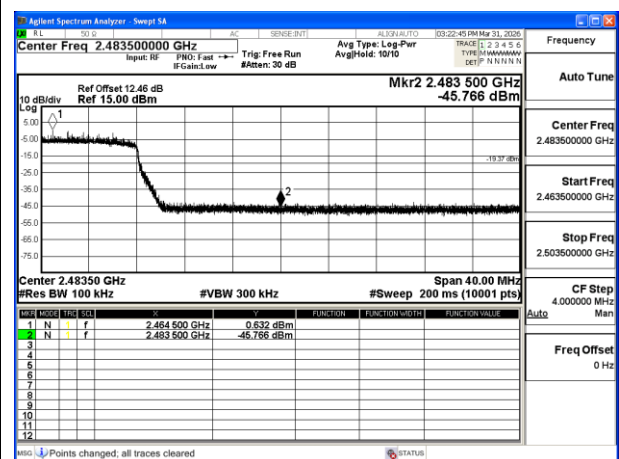
Mode:802.11ax HE20 Frequency:2462MHz

Ant:3



Mode:802.11ax HE20 Frequency:2412MHz

Ant:7



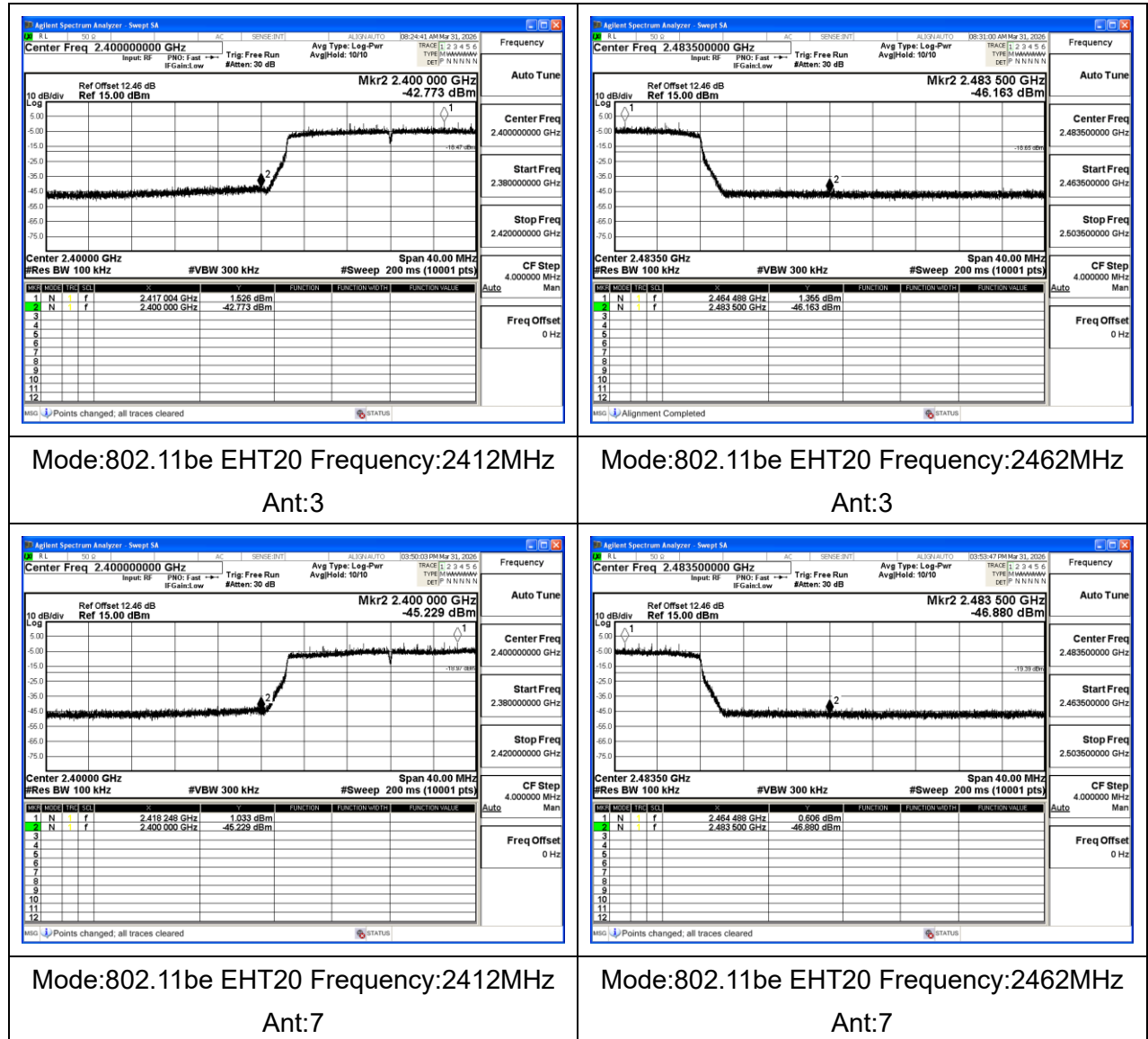
Mode:802.11ax HE20 Frequency:2462MHz

Ant:7



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Test Mode: 802.11be EHT20



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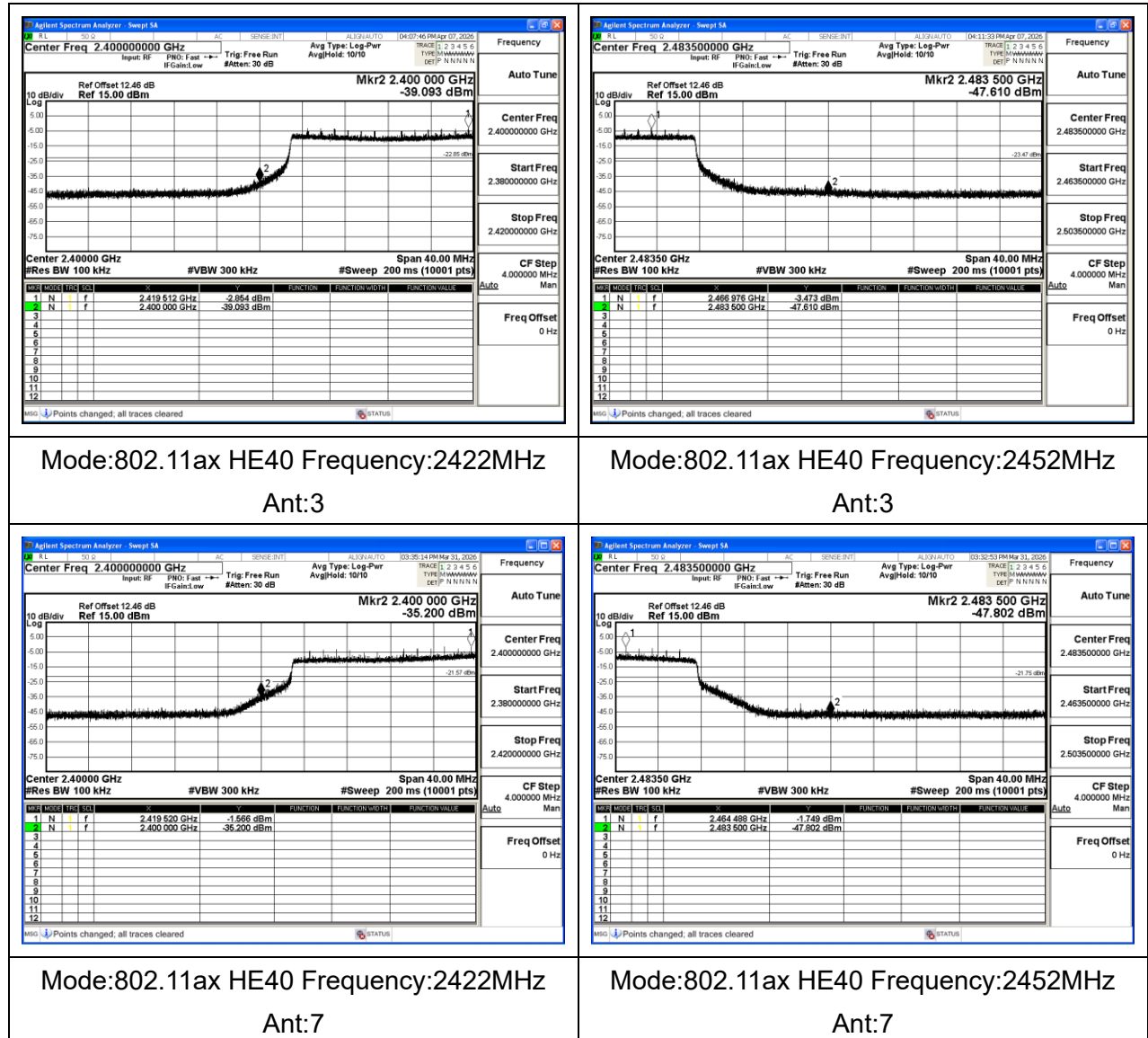
Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th
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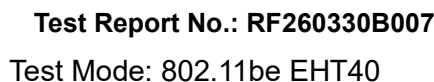
Test Mode: 802.11ax HE40



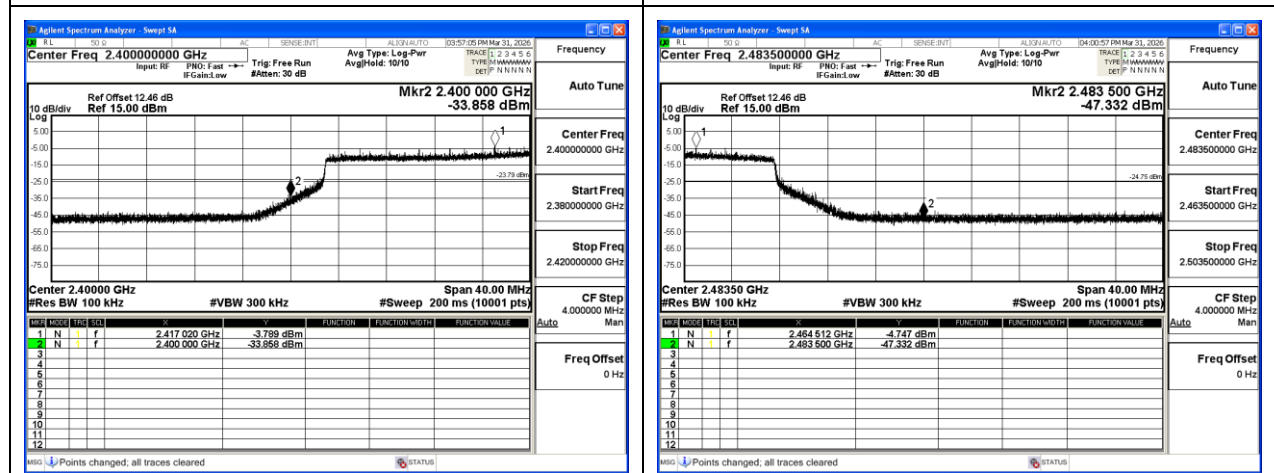
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Mode:802.11be EHT40 Frequency:2422MHz Ant:3	Mode:802.11be EHT40 Frequency:2452MHz Ant:3
--	--

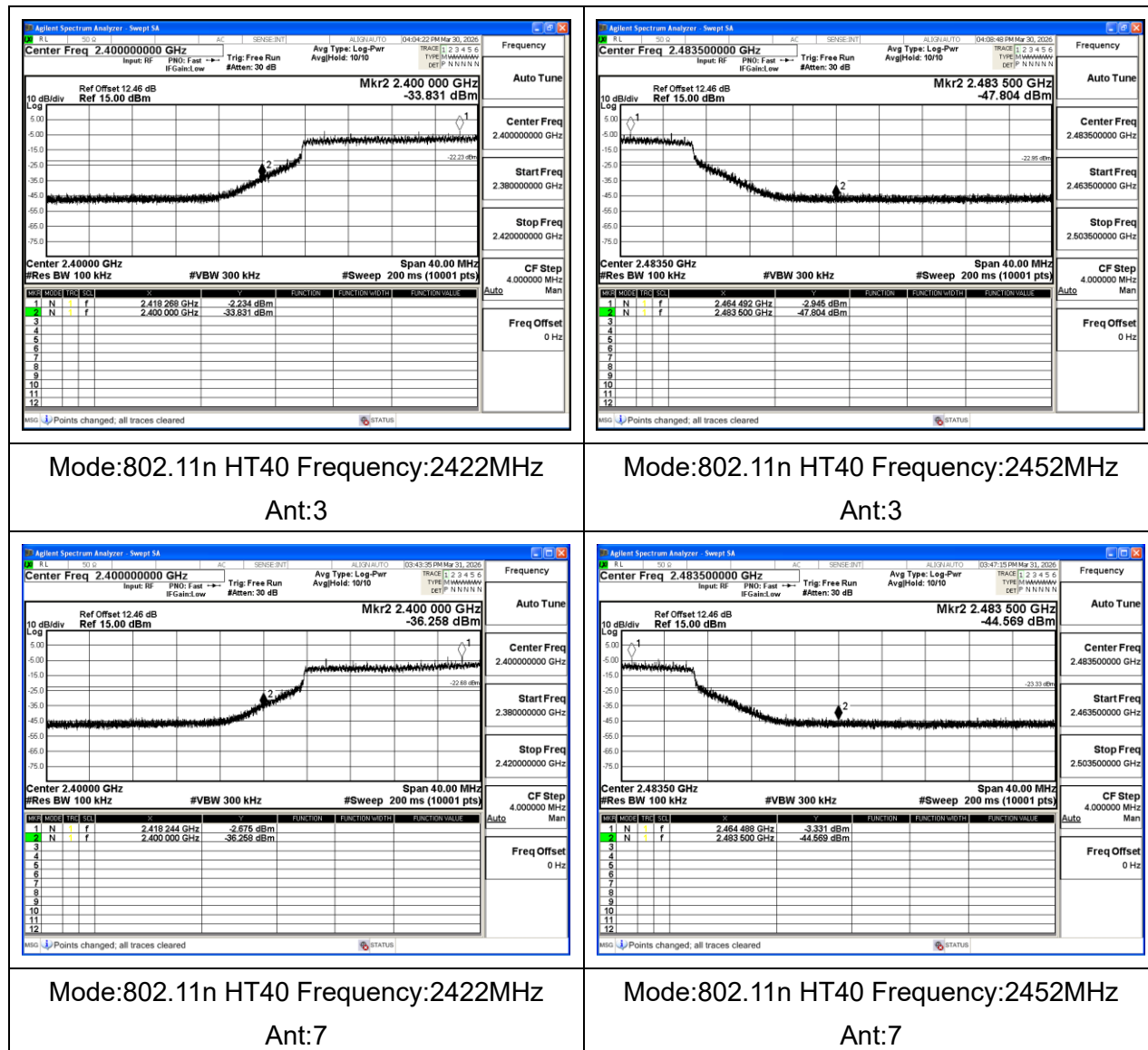


Mode:802.11be EHT40 Frequency:2422MHz Ant:7	Mode:802.11be EHT40 Frequency:2452MHz Ant:7
--	--



Test Report No.: RF260330B007

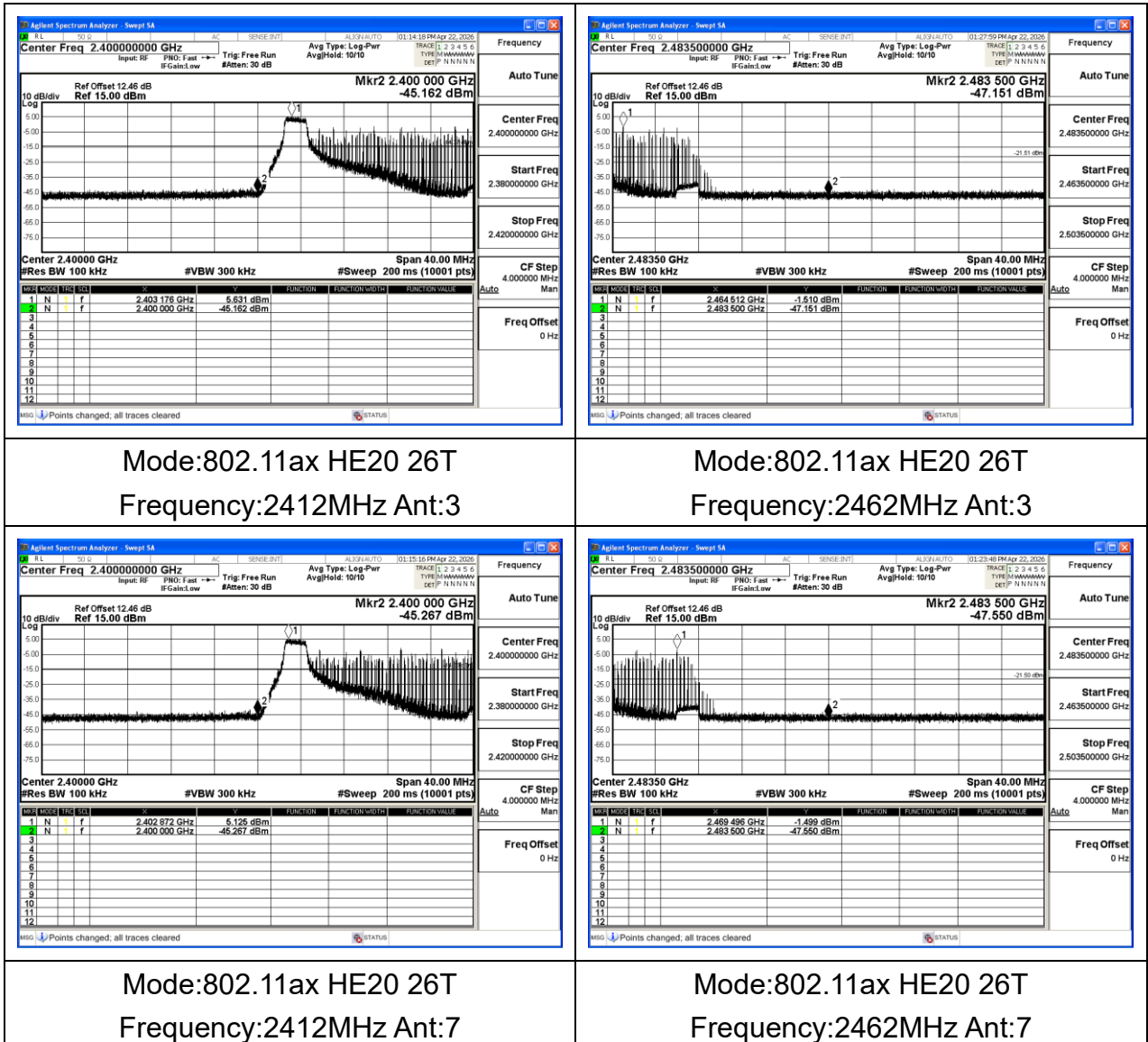
Test Mode: 802.11n HT40





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Test Mode: 802.11ax HE20 26T



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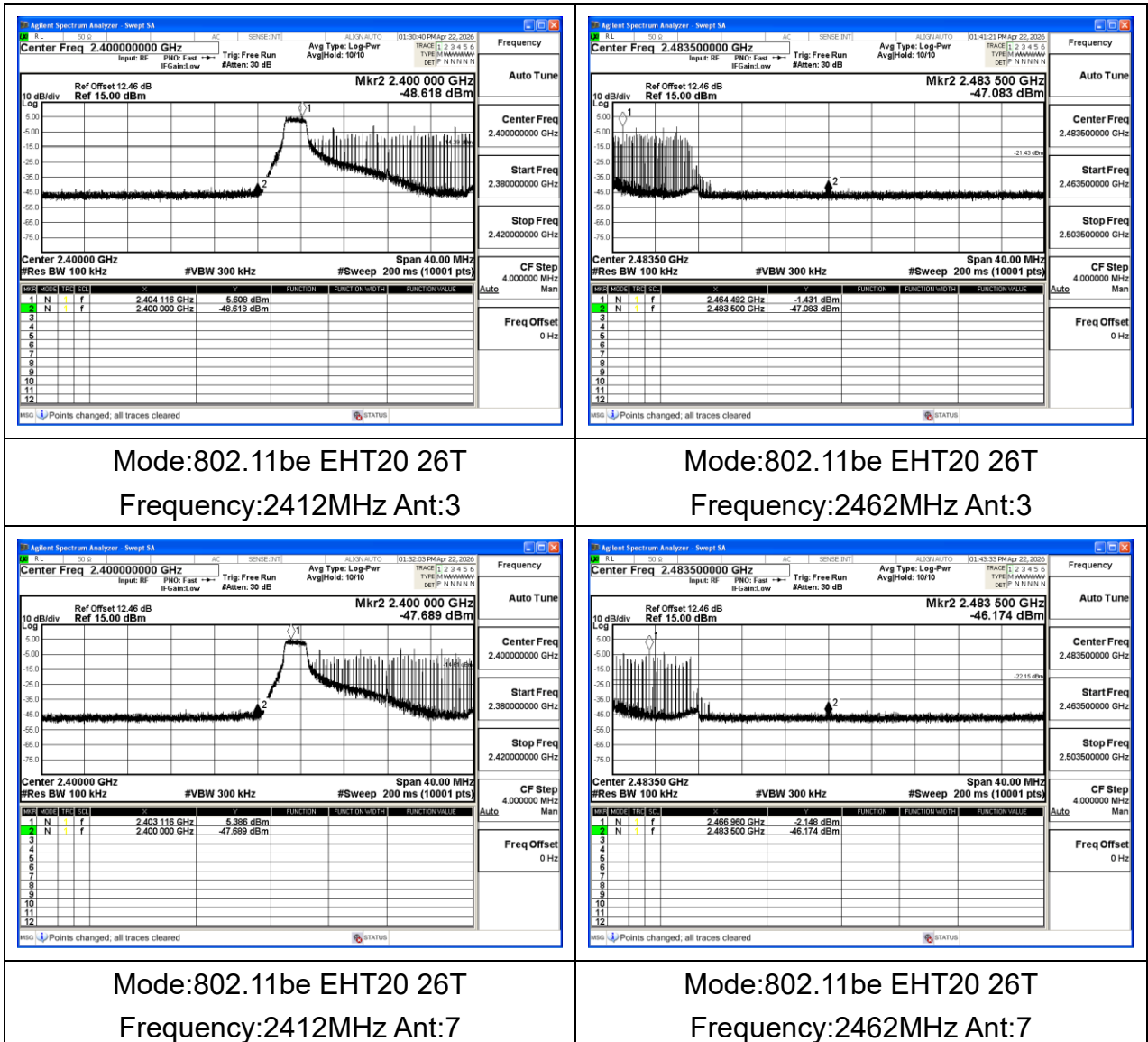
Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th
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Test Report No.: RF260330B007

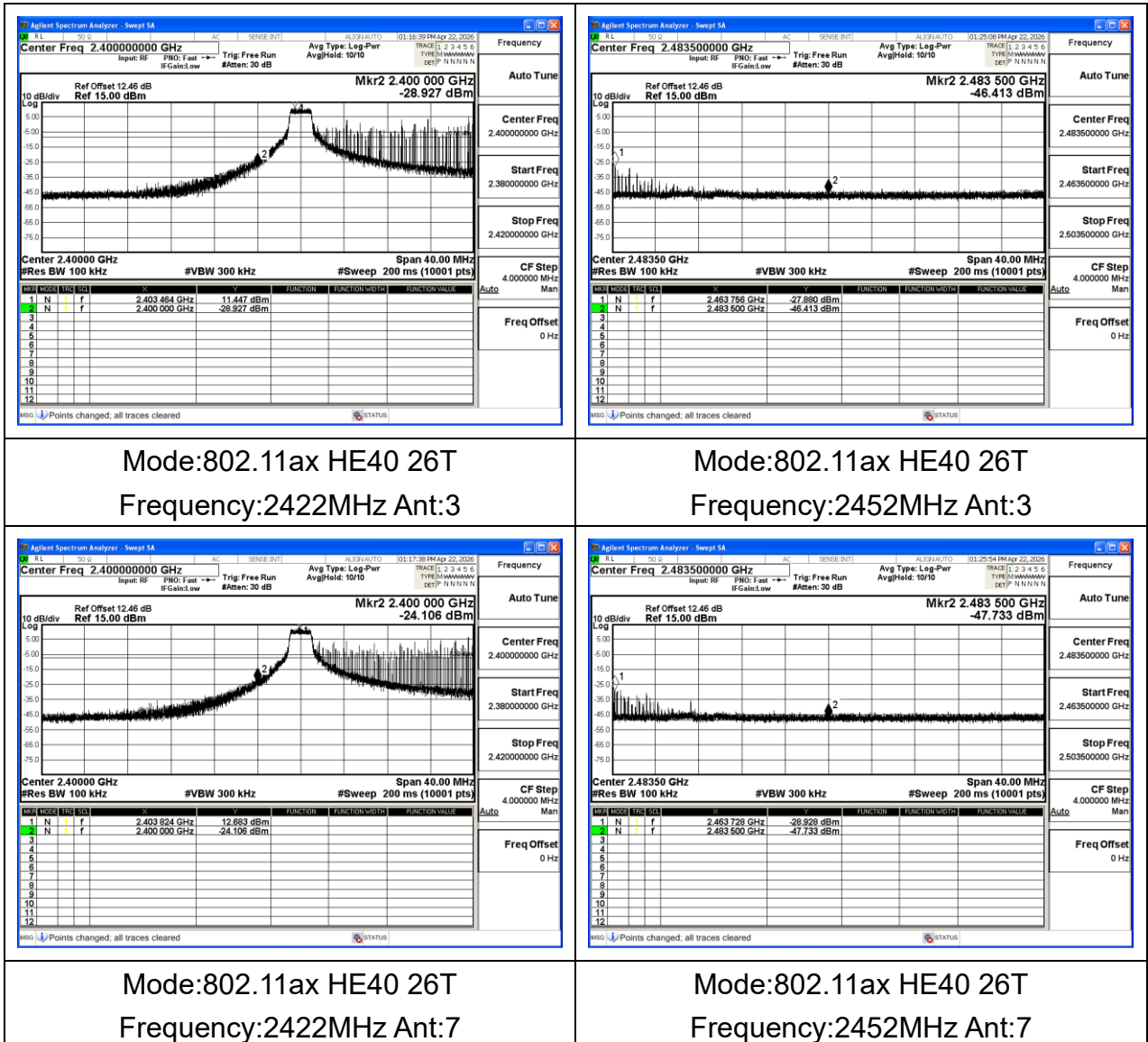
Test Mode: 802.11be EHT20 26T





Test Report No.: RF260330B007

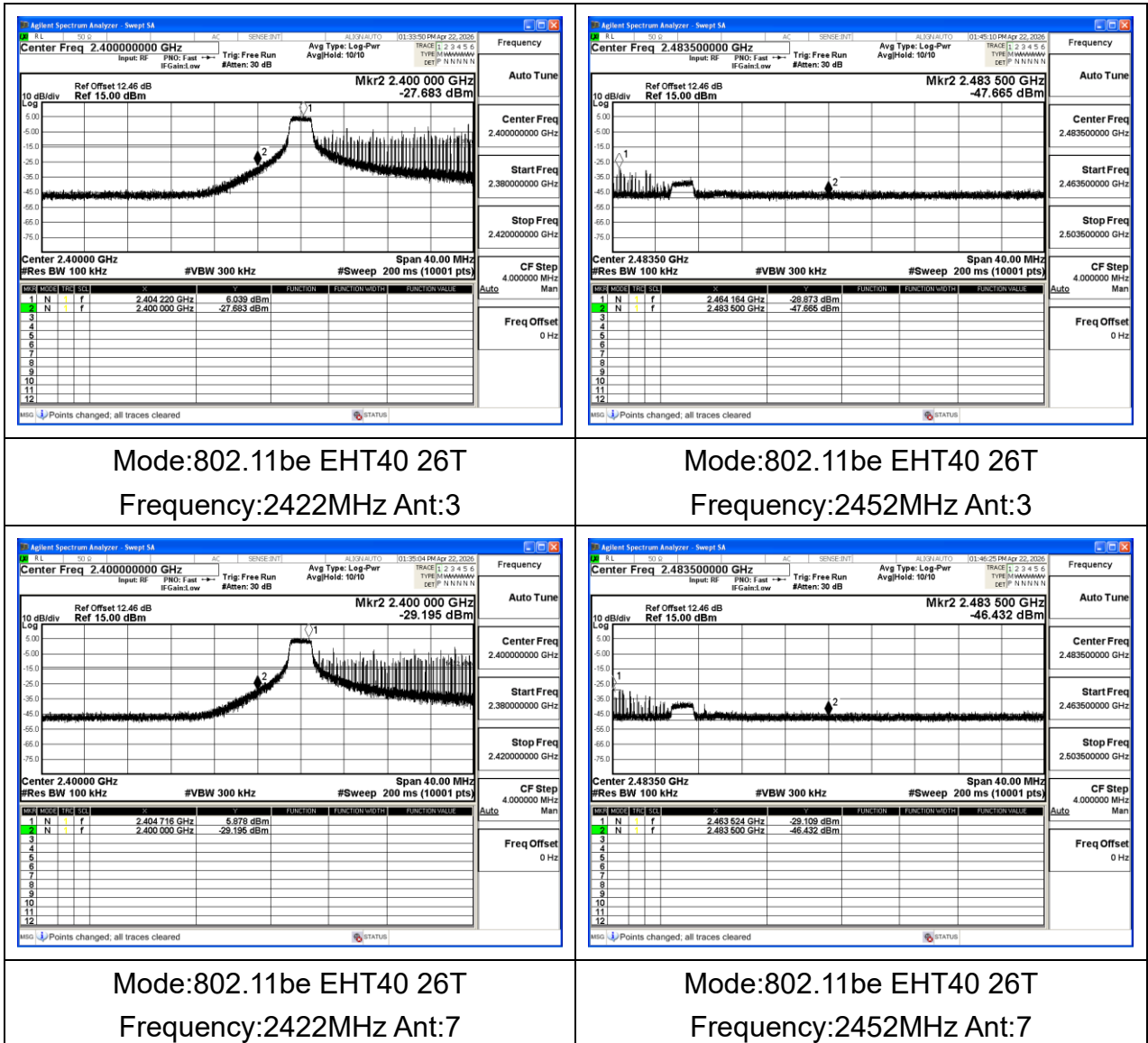
Test Mode: 802.11ax HE40 26T





Test Report No.: RF260330B007

Test Mode: 802.11be EHT40 26T



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7 APPENDIX 2 BLE

BLE ANT3

1 Duty Cycle and Antenna Gain

Test Mode	Frequency (MHz)	Plot	Duty Cycle	Correction Factor(dB)	Antenna Gain(dBi)
GFSK (LE 1Mbps)	2402	Fig.1	96.60%	0.15	-1.60

Note: Correction Factor= $10 \cdot \log(1/\text{Duty Cycle})$

Test Mode	Frequency (MHz)	Plot	Duty Cycle	Correction Factor(dB)	Antenna Gain(dBi)
GFSK (LE 2Mbps)	2402	Fig.2	96.00%	0.18	-1.60

Note: Correction Factor= $10 \cdot \log(1/\text{Duty Cycle})$

Test Mode	Frequency (MHz)	Plot	Duty Cycle	Correction Factor(dB)	Antenna Gain(dBi)
Coded 125K	2402	Fig.3	99.80%	0.01	-1.60

Note: Correction Factor= $10 \cdot \log(1/\text{Duty Cycle})$

Test Mode	Frequency (MHz)	Plot	Duty Cycle	Correction Factor(dB)	Antenna Gain(dBi)
Coded 500K	2402	Fig.4	99.20%	0.03	-1.60

Note: Correction Factor= $10 \cdot \log(1/\text{Duty Cycle})$



Test Report No.: RF260330B007

Test Mode: GFSK (LE 1Mbps)

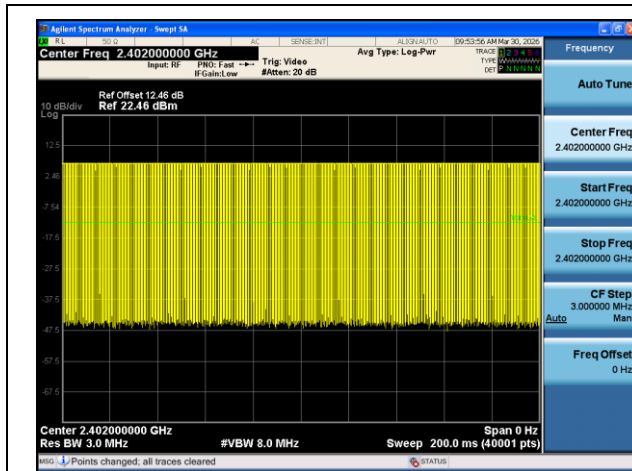


Fig.1

Test Mode: GFSK (LE 2Mbps)

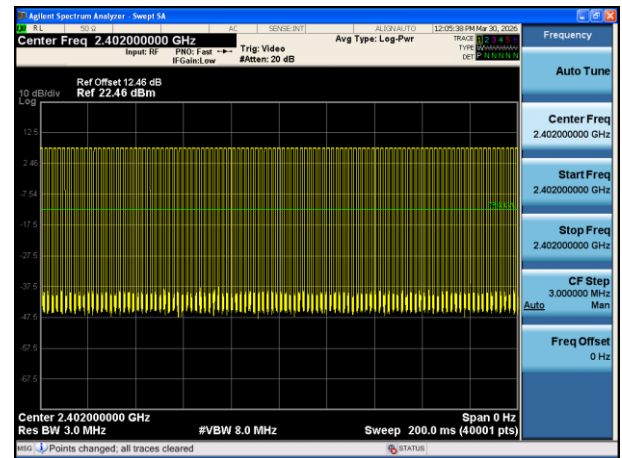


Fig.2

Test Mode: Coded 125K

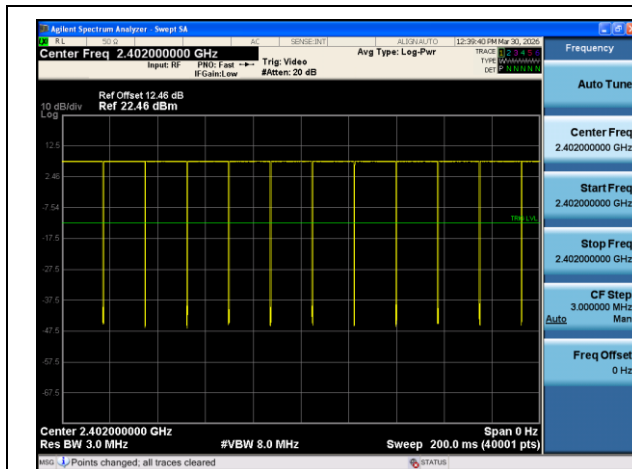


Fig.3

Test Mode: Coded 500K

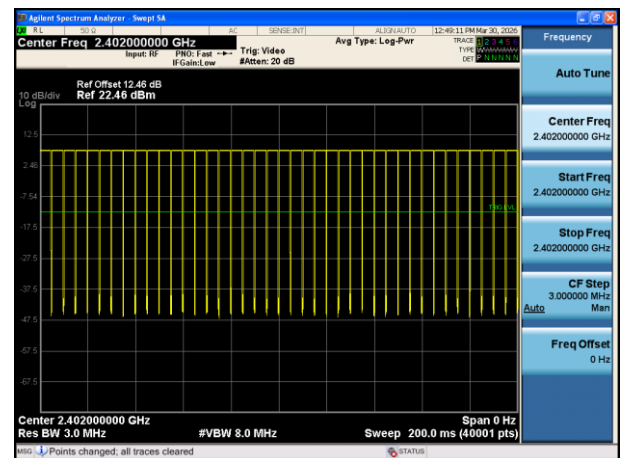


Fig.4



Test Report No.: RF260330B007

2 EIRP

Conducted Power

Modulation type	Conducted Peak Power(dBm)		
	2402MHz	2440MHz	2480MHz
GFSK (LE 1Mbps)	9.22	9.47	9.32
GFSK (LE 2Mbps)	9.10	9.66	9.30
Coded 125K	9.06	9.97	9.25
Coded 500K	9.05	9.96	9.24

Modulation type	Conducted Average Power(dBm)		
	2402MHz	2440MHz	2480MHz
GFSK (LE 1Mbps)	8.10	8.77	8.53
GFSK (LE 2Mbps)	7.49	7.17	7.53
Coded 125K	8.12	8.83	8.34
Coded 500K	8.48	8.01	8.44

EIRP

Modulation type	Peak EIRP(dBm)		
	2402MHz	2440MHz	2480MHz
GFSK (LE 1Mbps)	7.62	7.87	7.72
GFSK (LE 2Mbps)	7.50	8.06	7.70
Coded 125K	7.46	8.37	7.65
Coded 500K	7.45	8.36	7.64

Modulation type	Average EIRP(dBm)		
	2402MHz	2440MHz	2480MHz
GFSK (LE 1Mbps)	6.50	7.17	6.93
GFSK (LE 2Mbps)	5.89	5.57	5.93
Coded 125K	6.52	7.23	6.74
Coded 500K	6.88	6.41	6.84

$EIRP (dBm) = \text{Conducted Power}(dBm) + \text{Antenna Gain}(dBi)$



Test Report No.: RF260330B007

3 Occupied Bandwidth

6dB Bandwidth

Test Mode	Carrier frequency (MHz)	6dB Bandwidth(KHz)
GFSK (LE 1Mbps)	2402	650.6
GFSK (LE 1Mbps)	2440	683.6
GFSK (LE 1Mbps)	2480	681.8

Test Mode	Carrier frequency (MHz)	6dB Bandwidth(KHz)
GFSK (LE 2Mbps)	2402	1352.0
GFSK (LE 2Mbps)	2440	1312.9
GFSK (LE 2Mbps)	2480	1311.4

Test Mode	Carrier frequency (MHz)	6dB Bandwidth(KHz)
Coded 125K	2402	650.3
Coded 125K	2440	647.0
Coded 125K	2480	648.9

Test Mode	Carrier frequency (MHz)	6dB Bandwidth(KHz)
Coded 500K	2402	713.6
Coded 500K	2440	705.7
Coded 500K	2480	707.7



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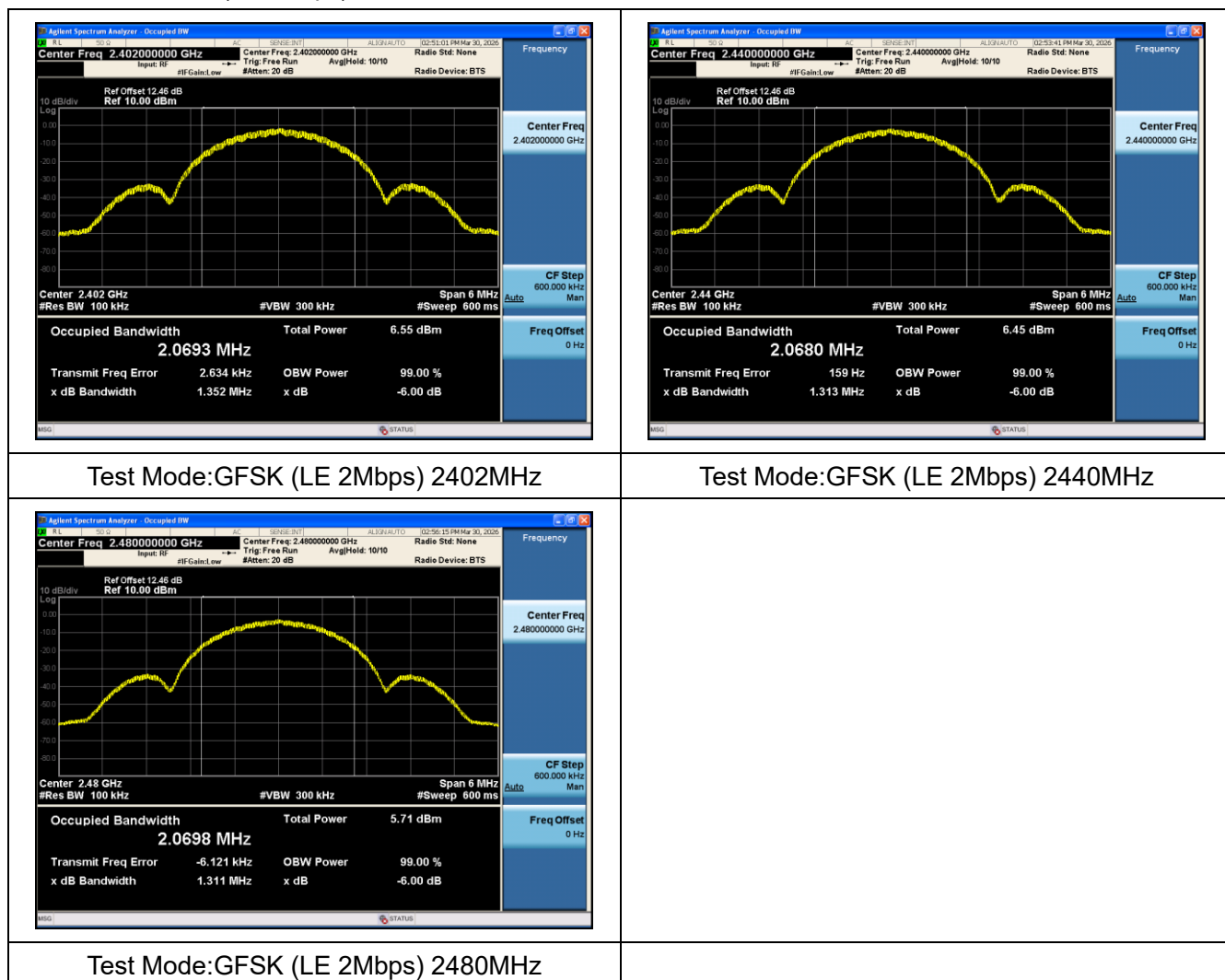
Test Mode: GFSK (LE 1Mbps)





Test Report No.: RF260330B007

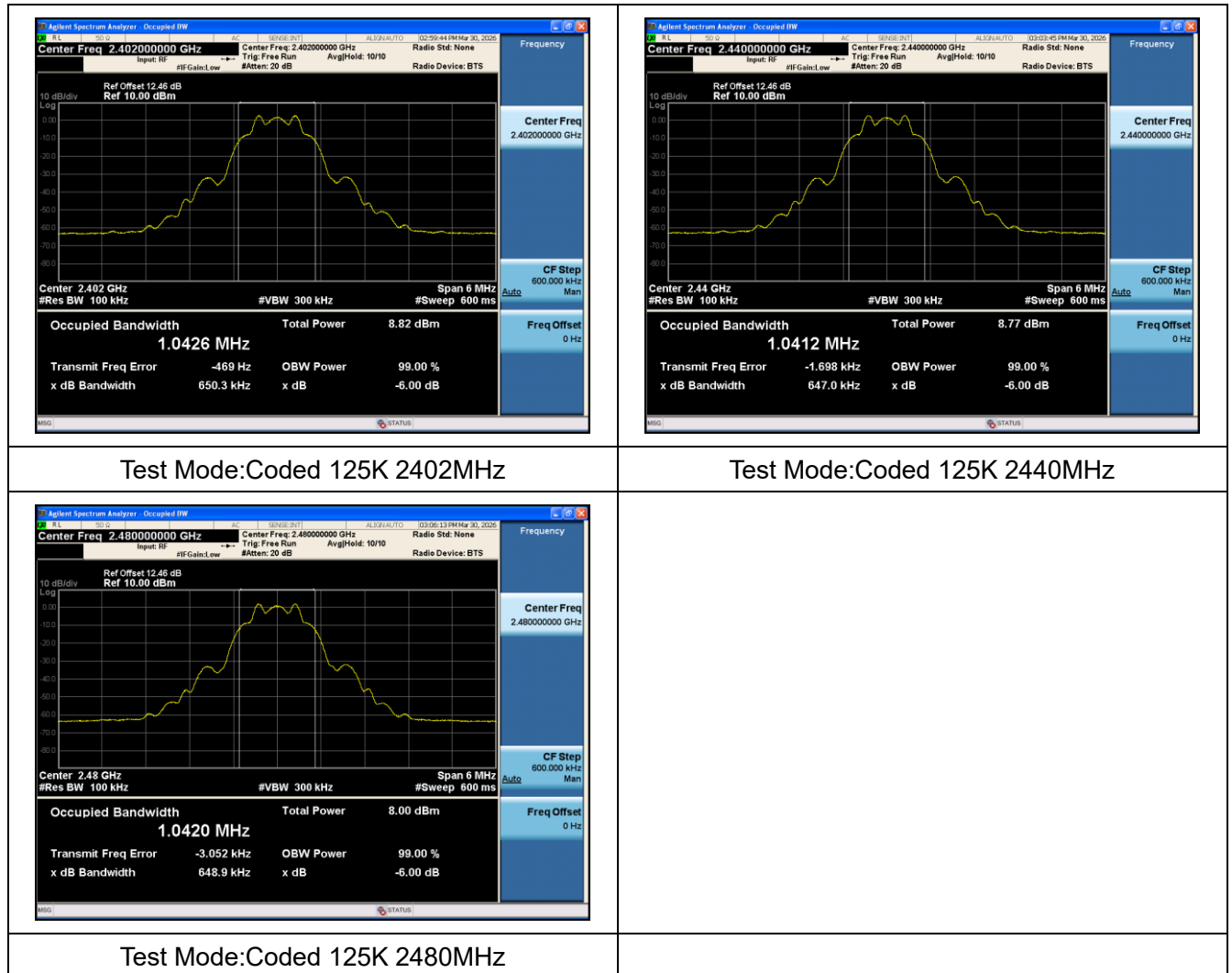
Test Mode: GFSK (LE 2Mbps)





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Test Mode: Coded 125K



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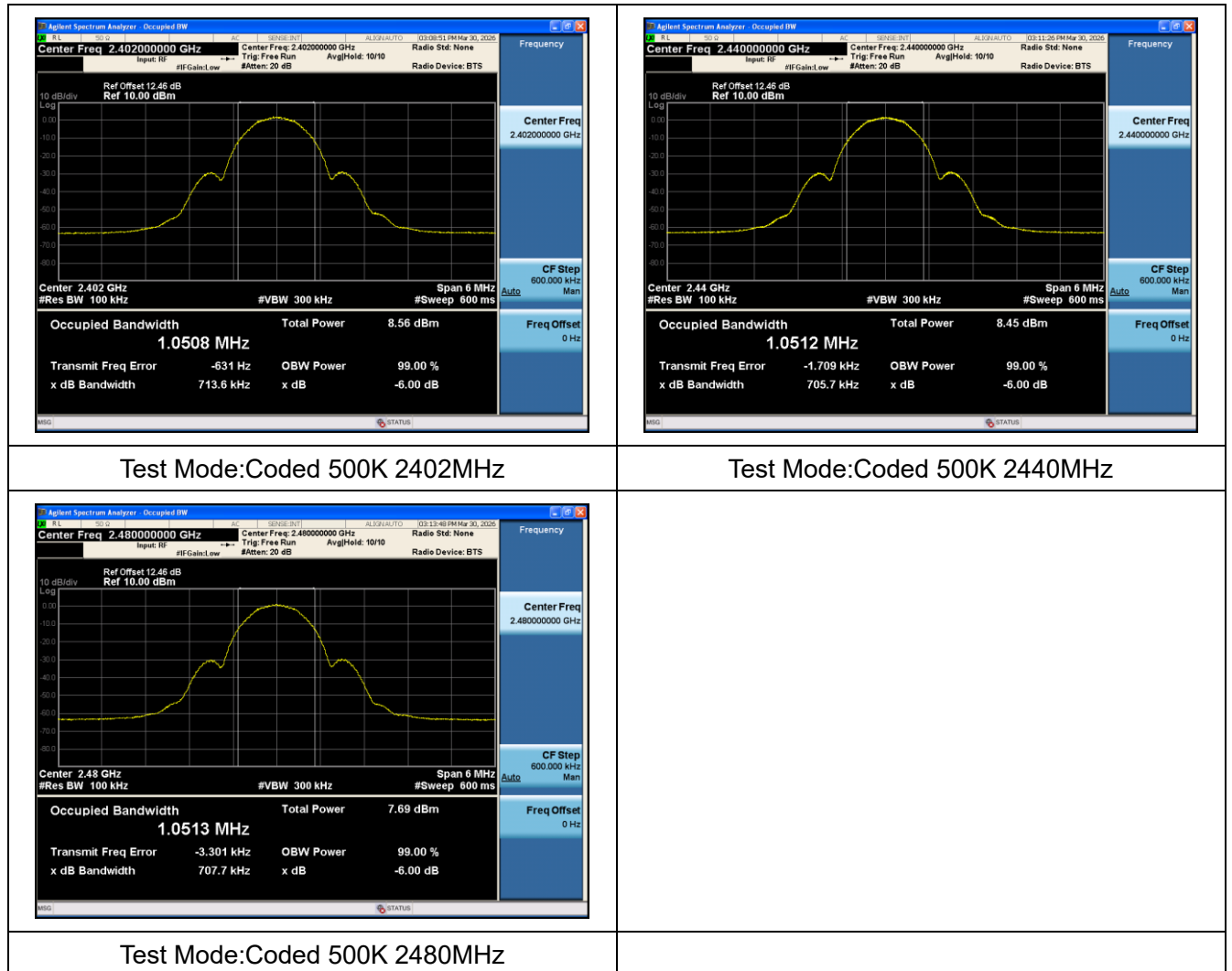
Room B38, Warehouse A5(Chiwan No.1), No.3 Chiwan 4th
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Test Mode: Coded 500K



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Email: shimin.wang@boomwavelab.com



Test Report No.: RF260330B007

99% Bandwidth

Test Mode	Carrier frequency (MHz)	99% Bandwidth(kHz)
GFSK (LE 1Mbps)	2402	1023.7
GFSK (LE 1Mbps)	2440	1024.5
GFSK (LE 1Mbps)	2480	1024.2

Test Mode	Carrier frequency (MHz)	99% Bandwidth(kHz)
GFSK (LE 2Mbps)	2402	2067.0
GFSK (LE 2Mbps)	2440	2069.8
GFSK (LE 2Mbps)	2480	2068.7

Test Mode	Carrier frequency (MHz)	99% Bandwidth(kHz)
Coded 125K	2402	1042.1
Coded 125K	2440	1043.0
Coded 125K	2480	1042.6

Test Mode	Carrier frequency (MHz)	99% Bandwidth(kHz)
Coded 500K	2402	1050.6
Coded 500K	2440	1051.2
Coded 500K	2480	1051.2



Test Report No.: RF260330B007

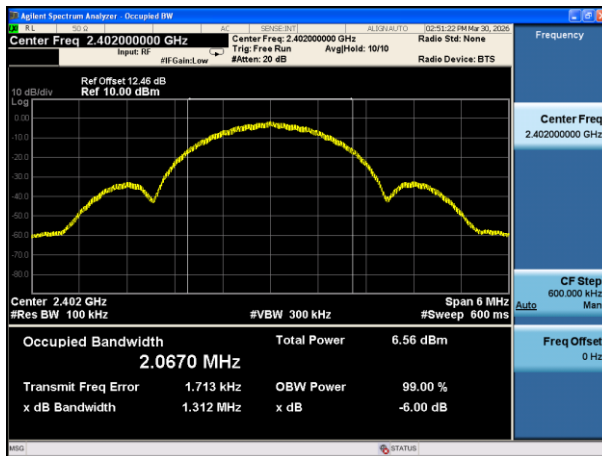
Test Mode: GFSK (LE 1Mbps)



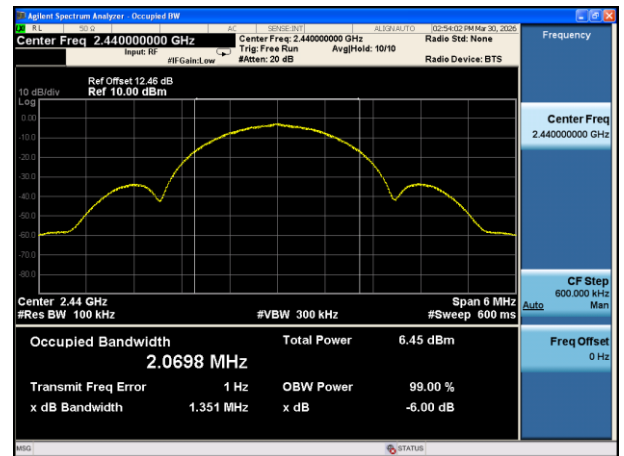


Test Report No.: RF260330B007

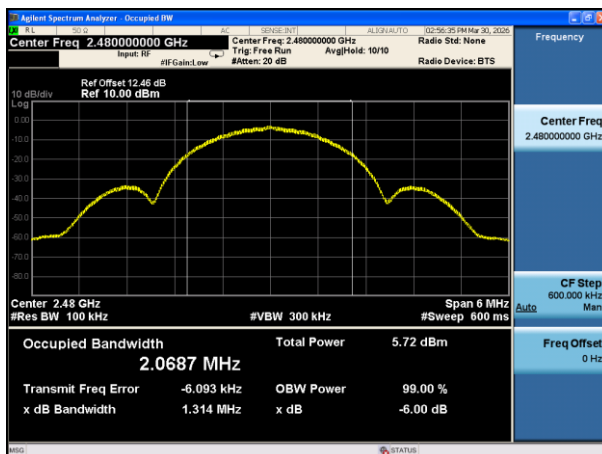
Test Mode: GFSK (LE 2Mbps)



Test Mode:GFSK (LE 2Mbps) 2402MHz



Test Mode:GFSK (LE 2Mbps) 2440MHz

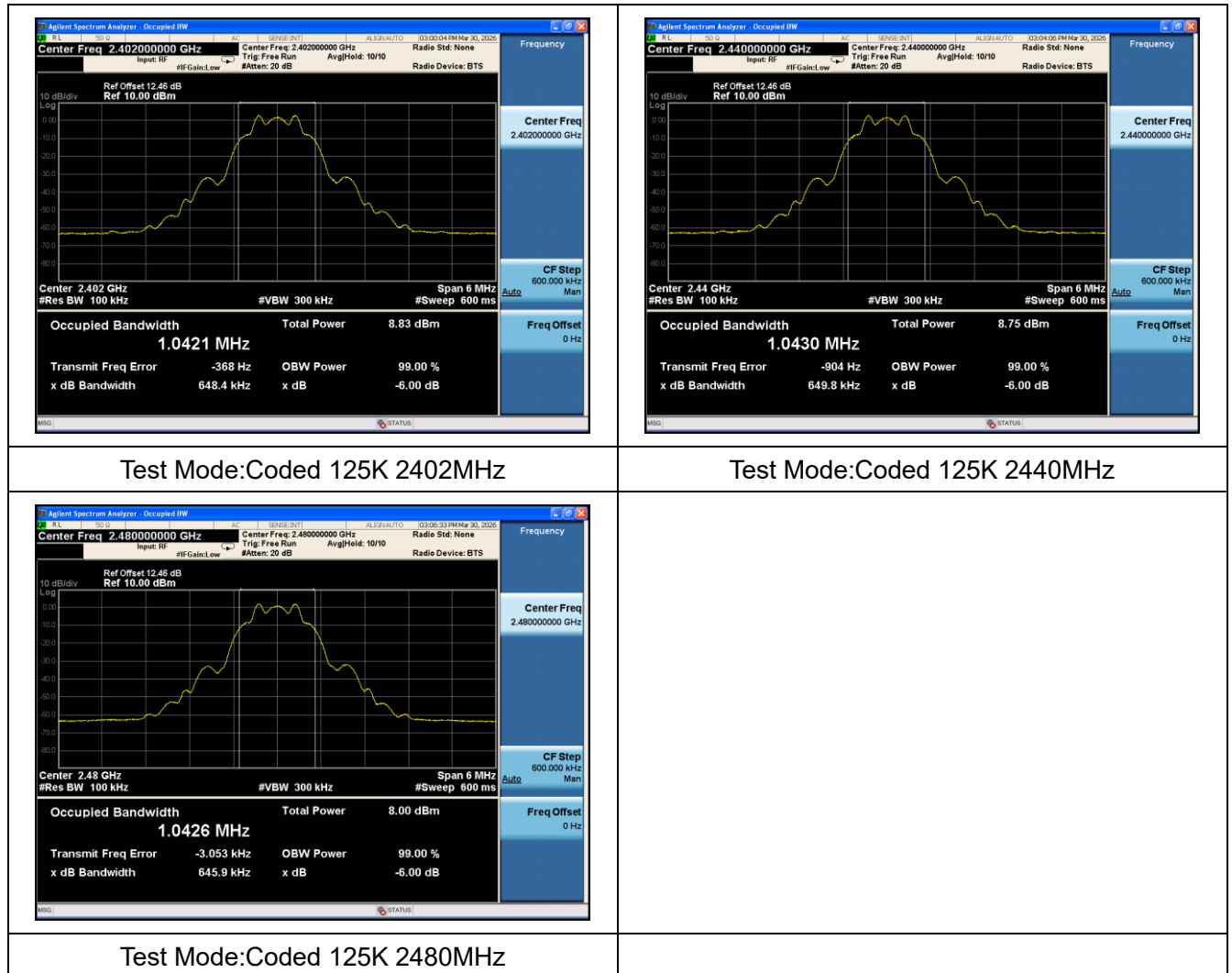


Test Mode:GFSK (LE 2Mbps) 2480MHz



Test Report No.: RF260330B007

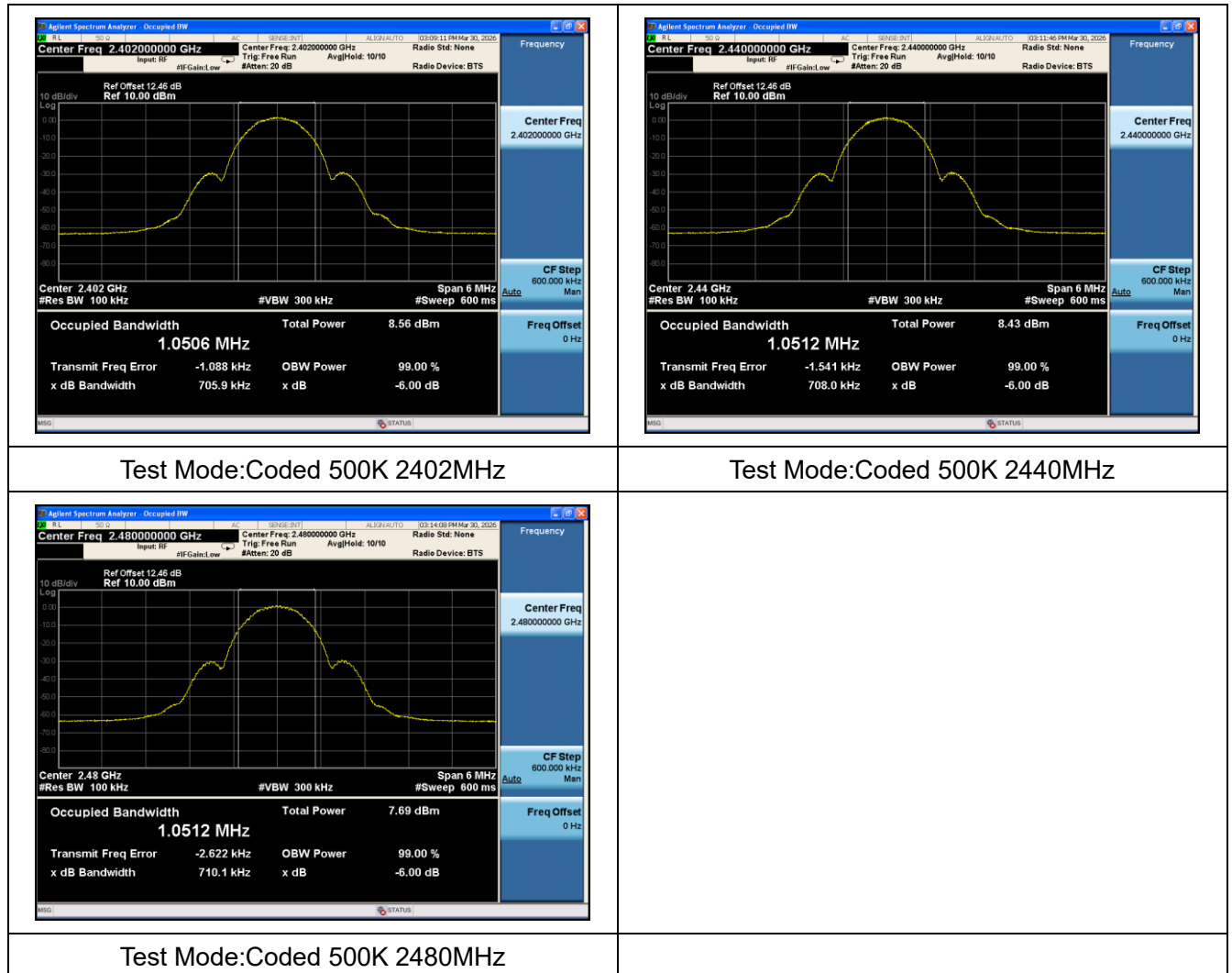
Test Mode: Coded 125K





Test Report No.: RF260330B007

Test Mode: Coded 500K





Test Report No.: RF260330B007

4 Transmitter Power Spectral Density

Test Mode	Carrier frequency (MHz)	Channel No.	Power Density (dBm/3kHz)
GFSK (LE 1Mbps)	2402	0	-6.3
GFSK (LE 1Mbps)	2440	19	-6.4
GFSK (LE 1Mbps)	2480	39	-7.2

Test Mode	Carrier frequency (MHz)	Channel No.	Power Density (dBm/3kHz)
GFSK (LE 2Mbps)	2402	0	-10.4
GFSK (LE 2Mbps)	2440	19	-10.5
GFSK (LE 2Mbps)	2480	39	-11.4

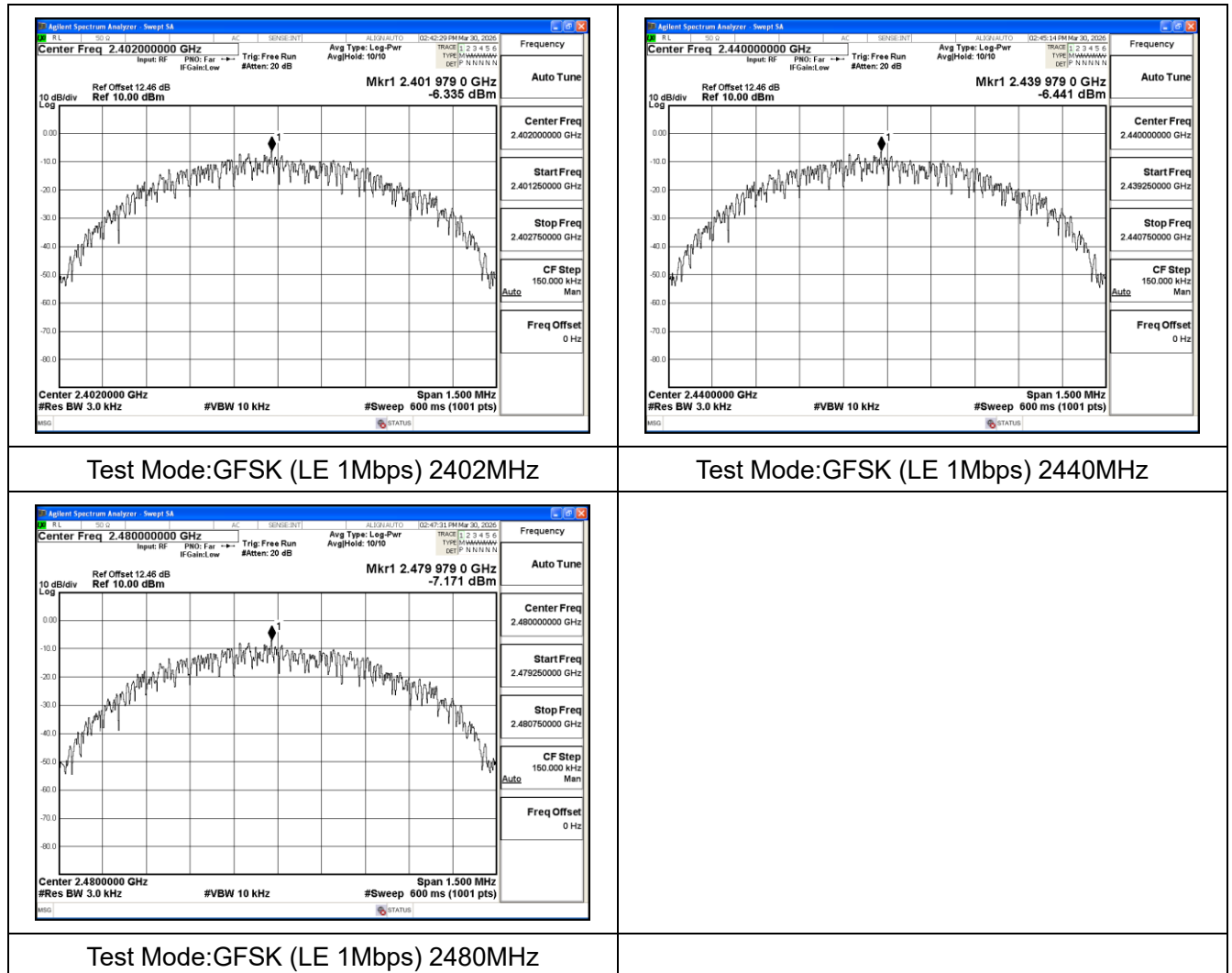
Test Mode	Carrier frequency (MHz)	Channel No.	Power Density (dBm/3kHz)
Coded 125K	2402	0	2.9
Coded 125K	2440	19	2.6
Coded 125K	2480	39	1.9

Test Mode	Carrier frequency (MHz)	Channel No.	Power Density (dBm/3kHz)
Coded 500K	2402	0	2.4
Coded 500K	2440	19	2.2
Coded 500K	2480	39	1.6



Test Report No.: RF260330B007

Test Mode: GFSK (LE 1Mbps)





Test Report No.: RF260330B007

Test Mode: GFSK (LE 2Mbps)

