

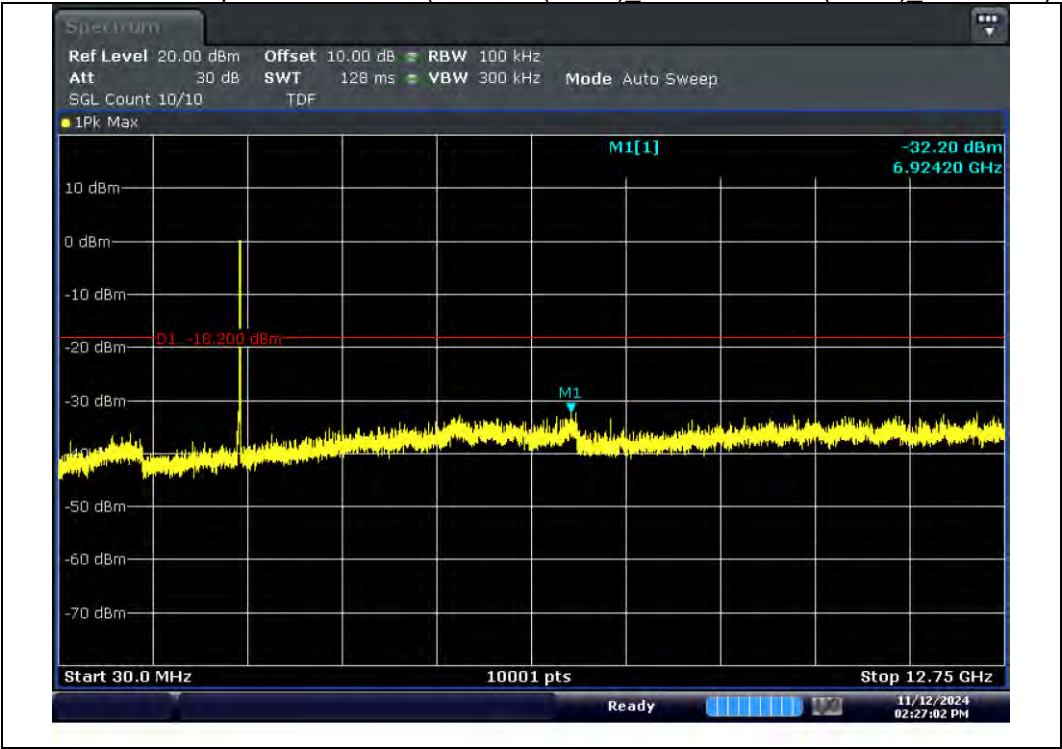
Test mode : Reference(802.11ax(HE40)_OFDMA / SISO(ANT1)_2452 MHz)



Test mode : Bandedge(802.11ax(HE40)_OFDMA / SISO(ANT1)_2452 MHz)



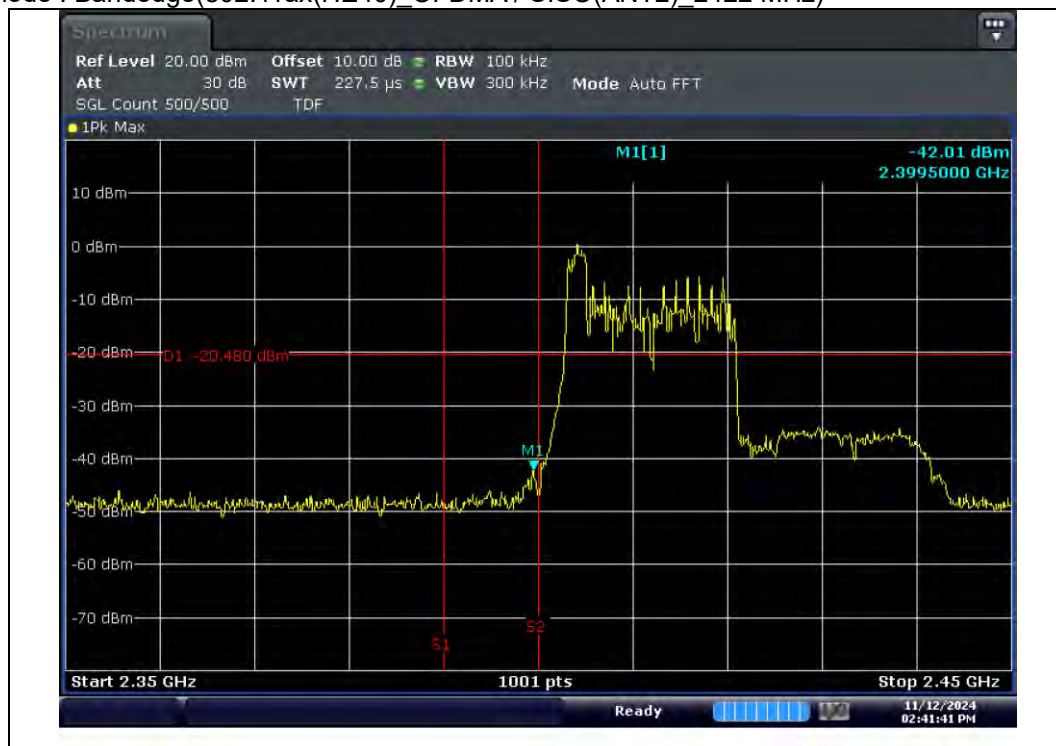
Test mode : Conducted Spurious Emission(802.11ax(HE40)_ OFDMA / SISO(ANT1)_ 2452 MHz)



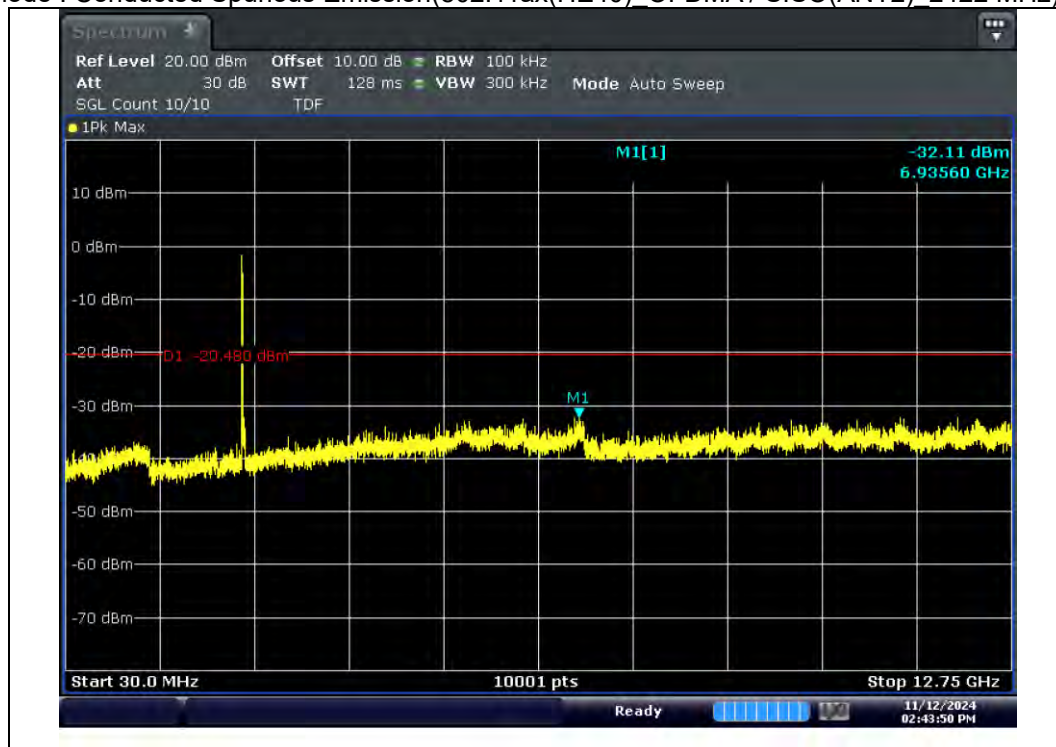
Test mode : Reference(802.11ax(HE40)_OFDMA / SISO(ANT2)_2422 MHz)



Test mode : Bandedge(802.11ax(HE40)_OFDMA / SISO(ANT2)_2422 MHz)



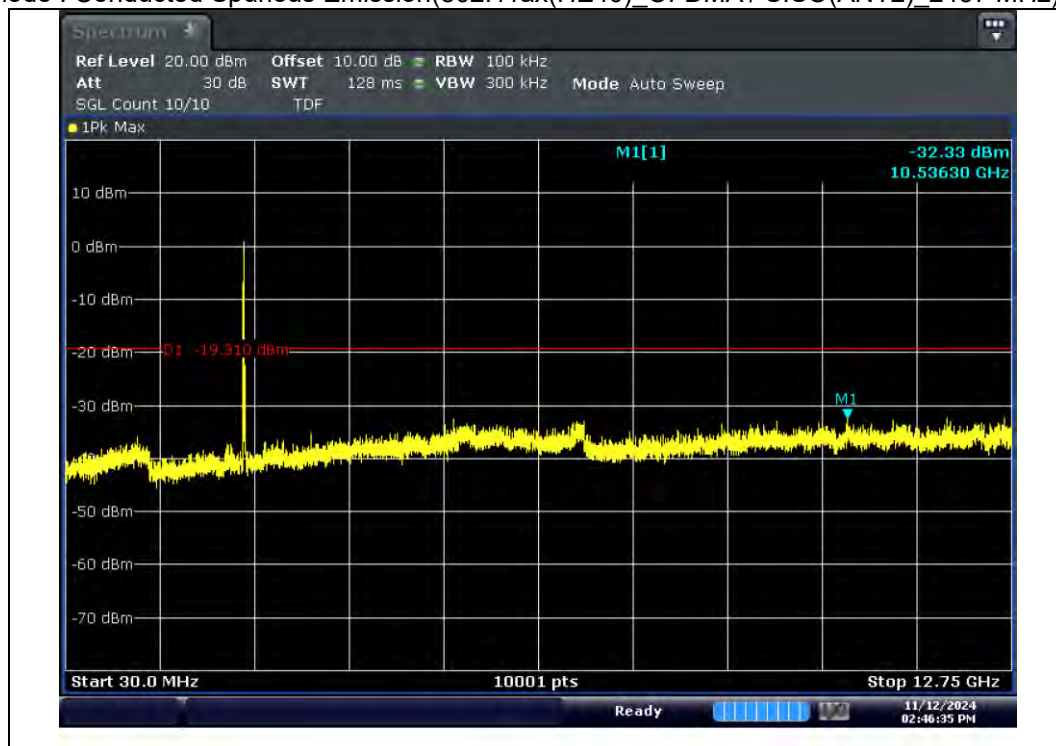
Test mode : Conducted Spurious Emission(802.11ax(HE40)_OFDMA / SISO(ANT2)_2422 MHz)



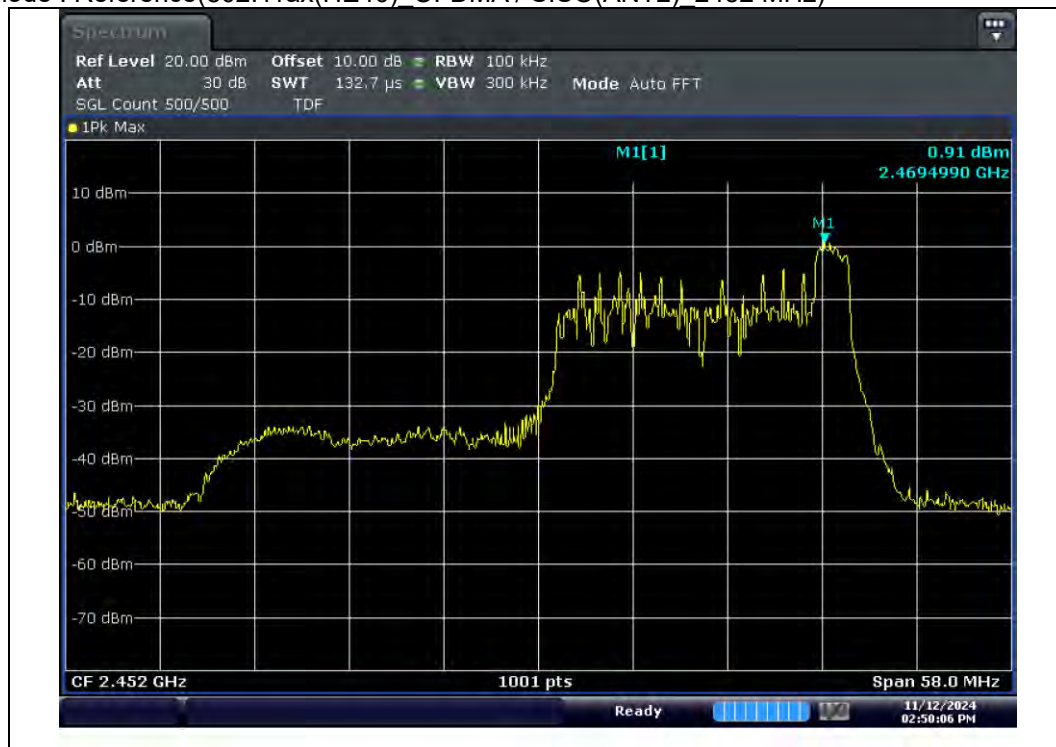
Test mode : Reference(802.11ax(HE40)_OFDMA / SISO(ANT2)_2437 MHz)



Test mode : Conducted Spurious Emission(802.11ax(HE40)_OFDMA / SISO(ANT2)_2437 MHz)



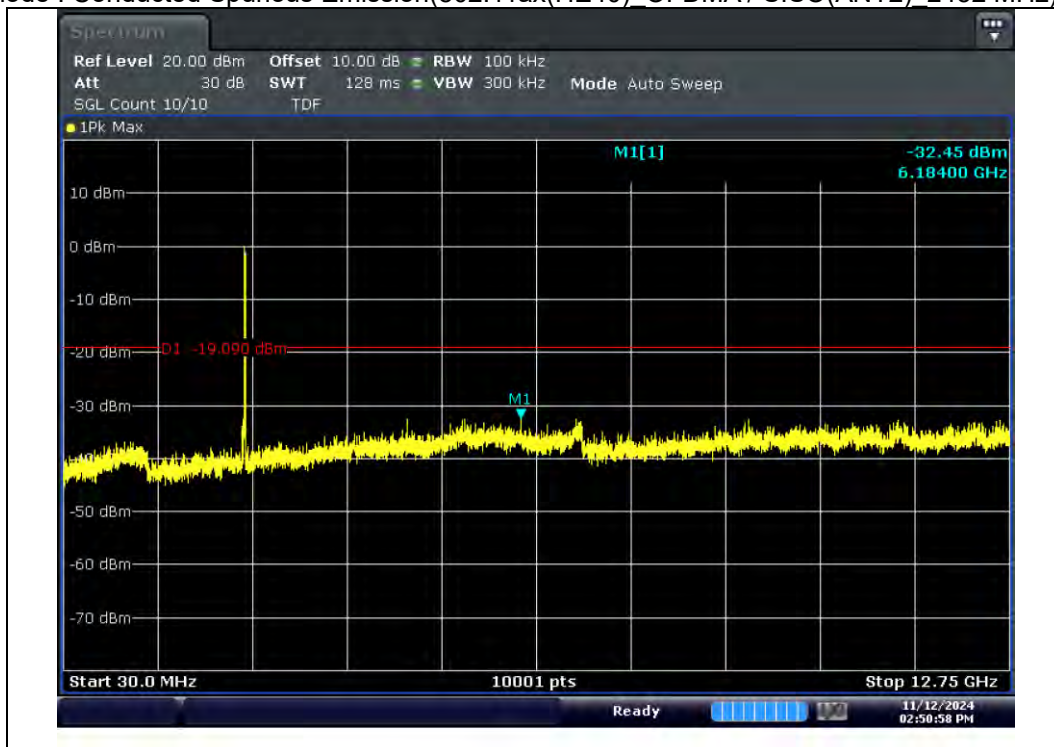
Test mode : Reference(802.11ax(HE40)_OFDMA / SISO(ANT2)_2452 MHz)



Test mode : Bandedge(802.11ax(HE40)_OFDMA / SISO(ANT2)_2452 MHz)



Test mode : Conducted Spurious Emission(802.11ax(HE40)_OFDMA / SISO(ANT2)_2452 MHz)



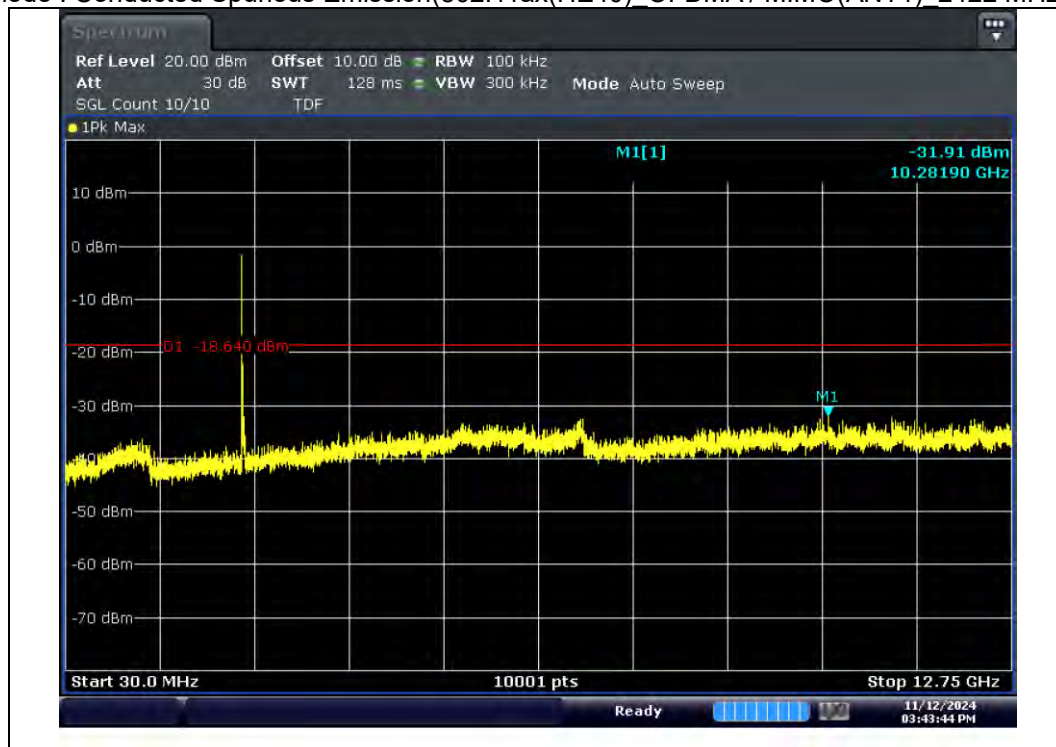
Test mode : Reference(802.11ax(HE40)_OFDMA / MIMO (ANT1)_2422 MHz)



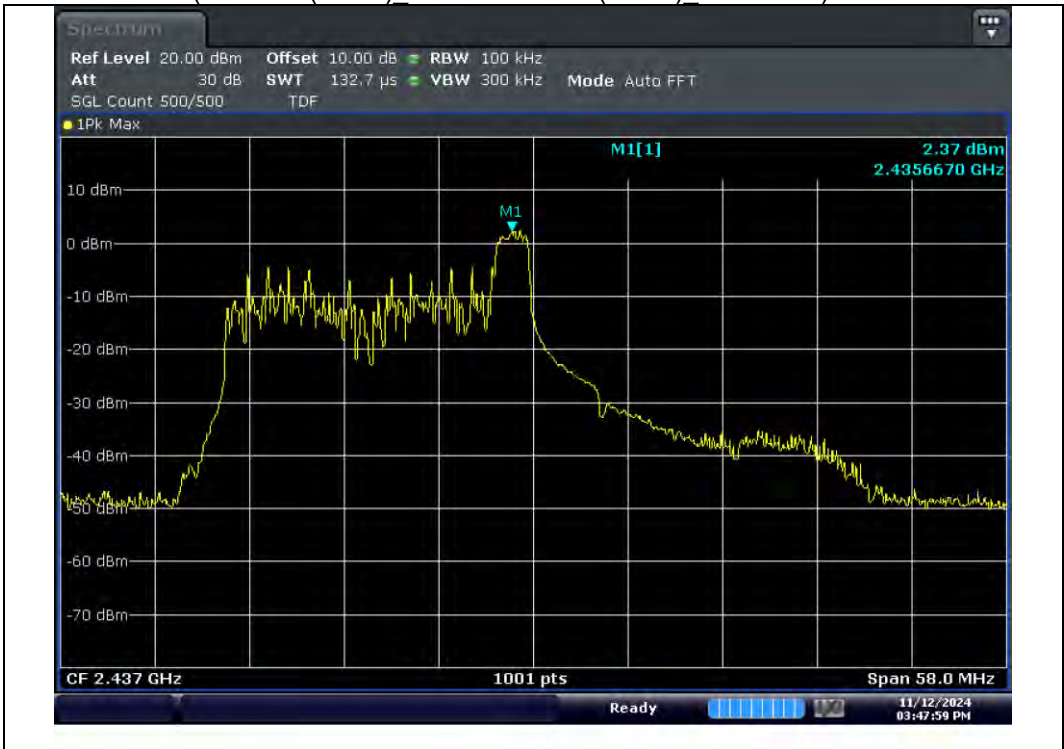
Test mode : Bandedge(802.11ax(HE40)_OFDMA / MIMO(ANT1)_2422 MHz)



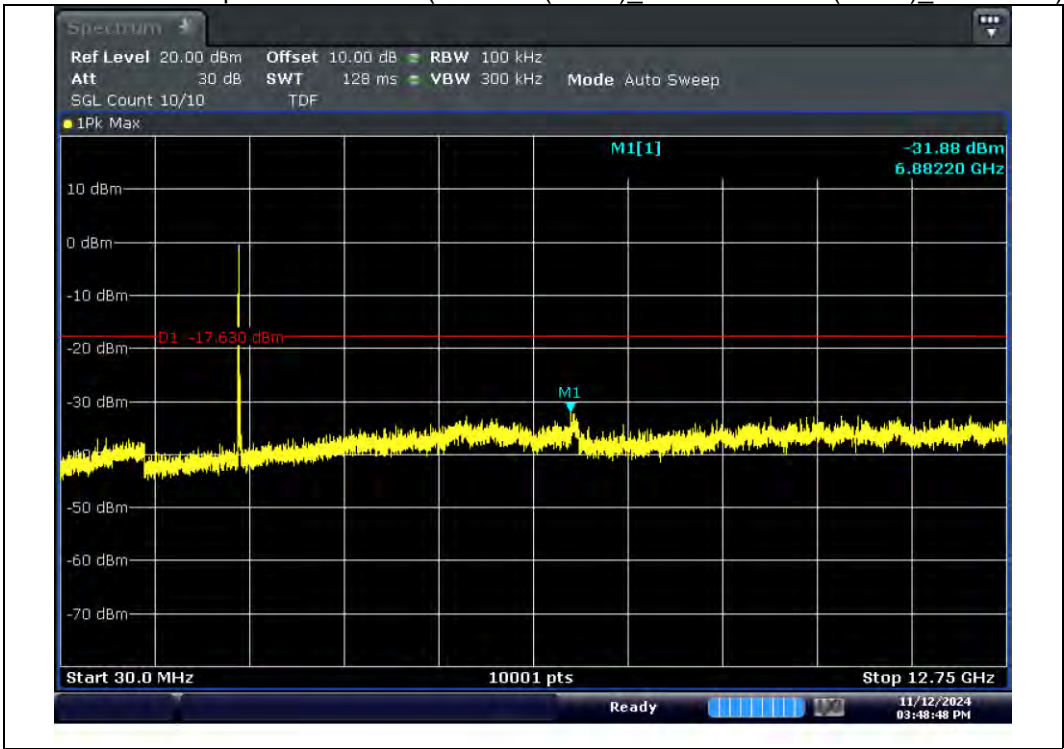
Test mode : Conducted Spurious Emission(802.11ax(HE40) OFDMA / MIMO(ANT1) 2422 MHz)



Test mode : Reference(802.11ax(HE40)_OFDMA / MIMO(ANT1)_2437 MHz)



Test mode : Conducted Spurious Emission(802.11ax(HE40)_OFDMA / MIMO(ANT1)_2437 MHz)



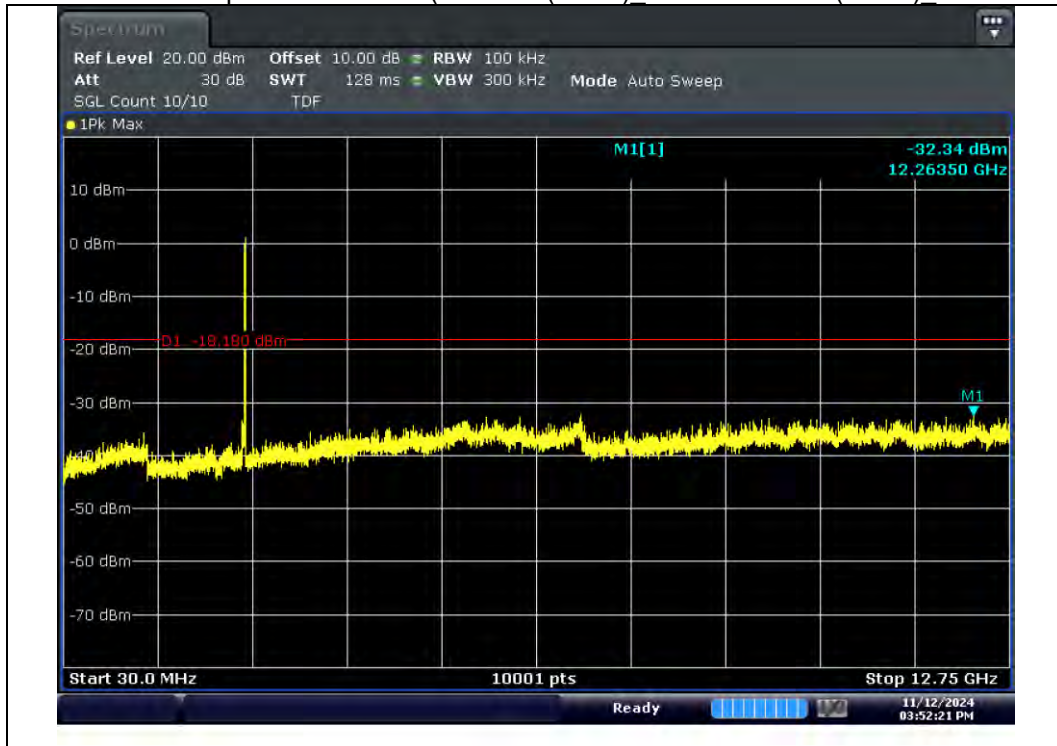
Test mode : Reference(802.11ax(HE40)_OFDMA / MIMO(ANT1)_2452 MHz)



Test mode : Bandedge(802.11ax(HE40)_OFDMA / MIMO(ANT1)_2452 MHz)



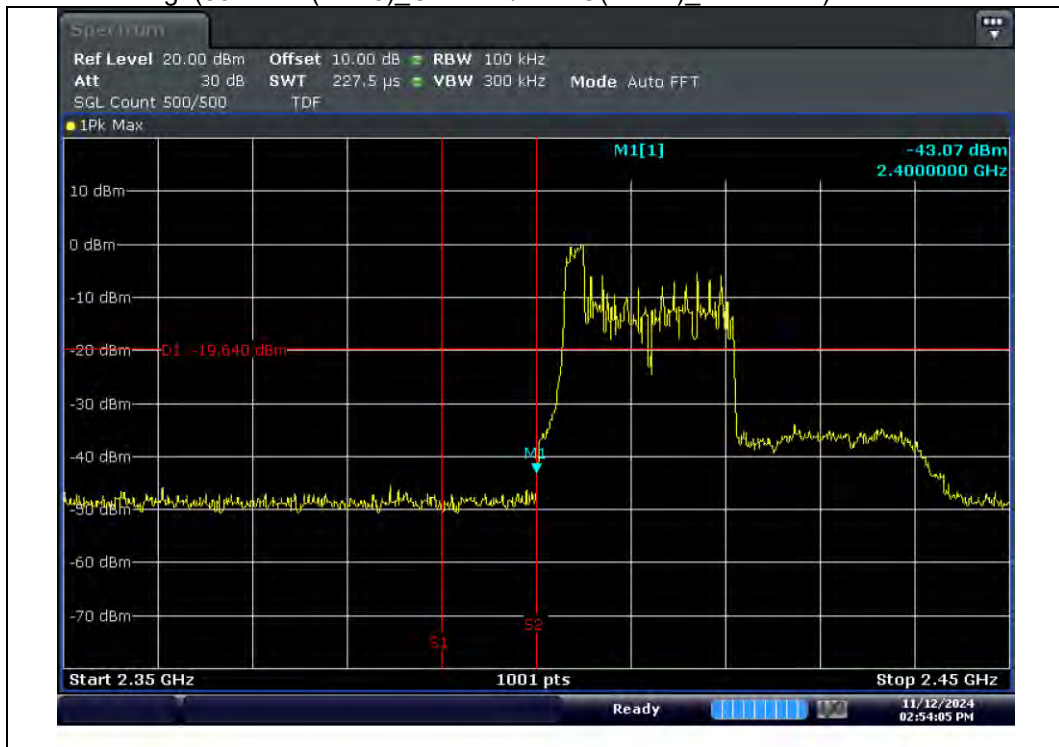
Test mode : Conducted Spurious Emission(802.11ax(HE40) OFDMA / MIMO(ANT1) 2452 MHz)



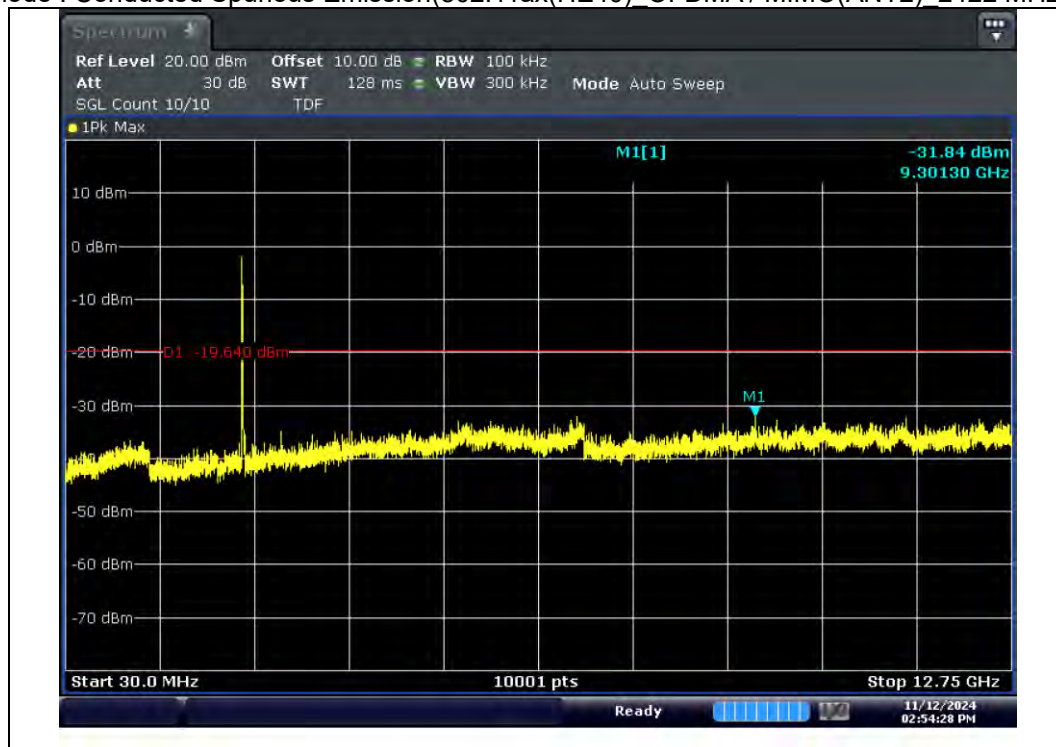
Test mode : Reference(802.11ax(HE40)_OFDMA / MIMO(ANT2)_2422 MHz)



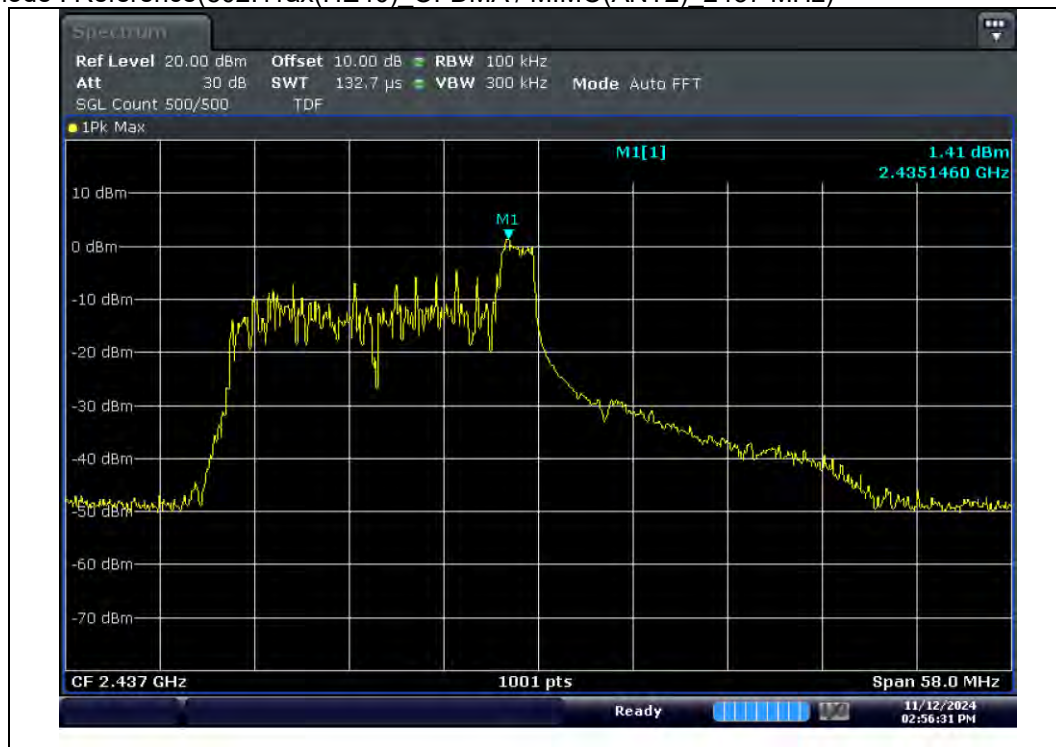
Test mode : Bandedge(802.11ax(HE40)_OFDMA / MIMO(ANT2)_2422 MHz)



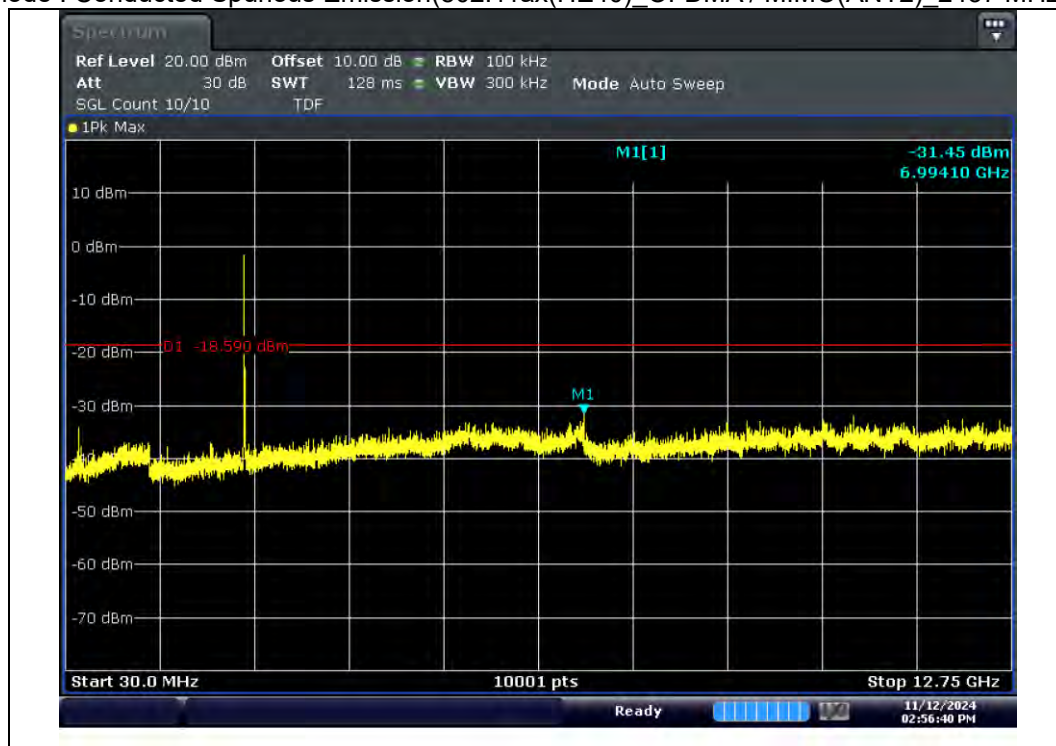
Test mode : Conducted Spurious Emission(802.11ax(HE40)_OFDMA / MIMO(ANT2)_2422 MHz)



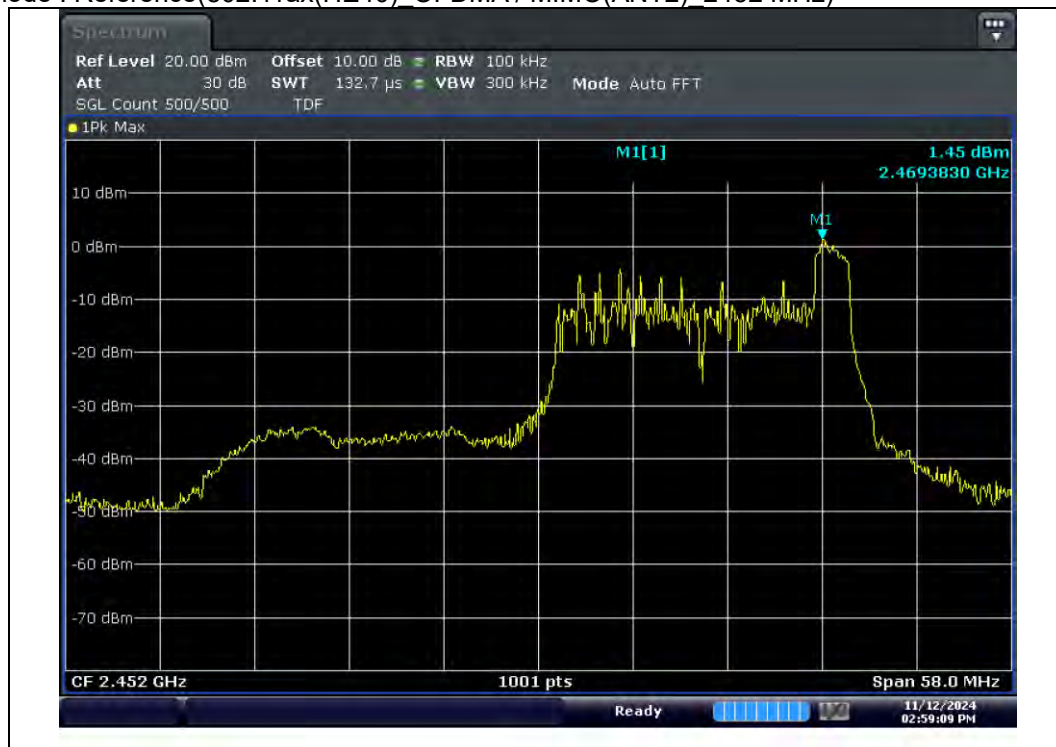
Test mode : Reference(802.11ax(HE40)_OFDMA / MIMO(ANT2)_2437 MHz)



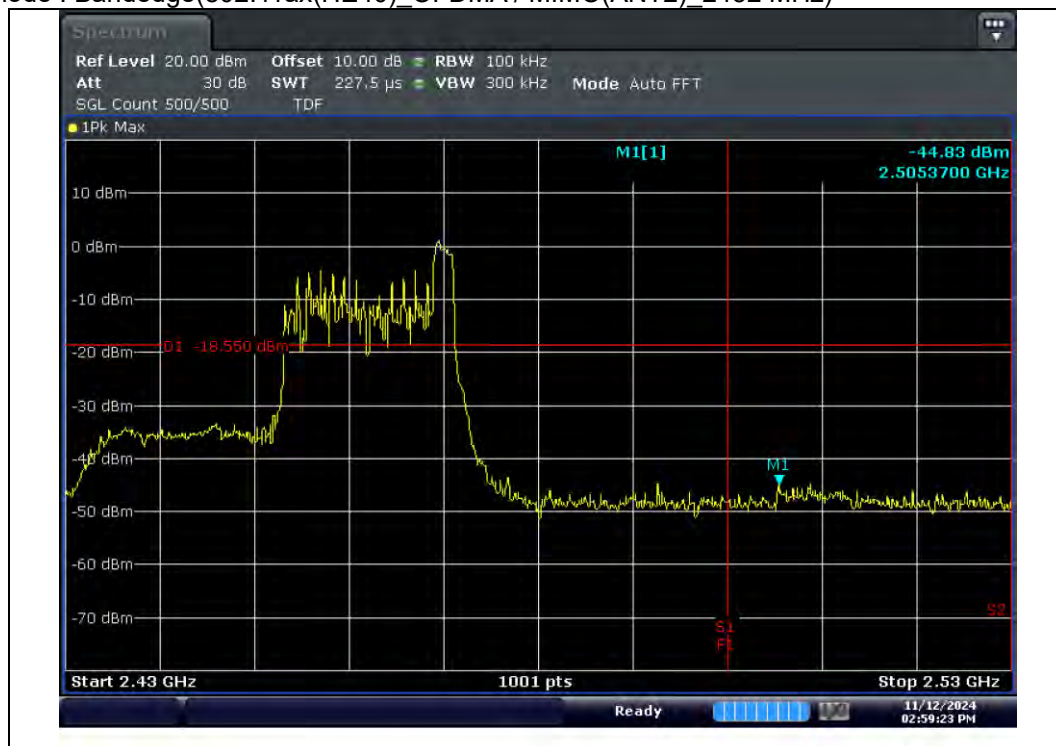
Test mode : Conducted Spurious Emission(802.11ax(HE40)_OFDMA / MIMO(ANT2)_2437 MHz)



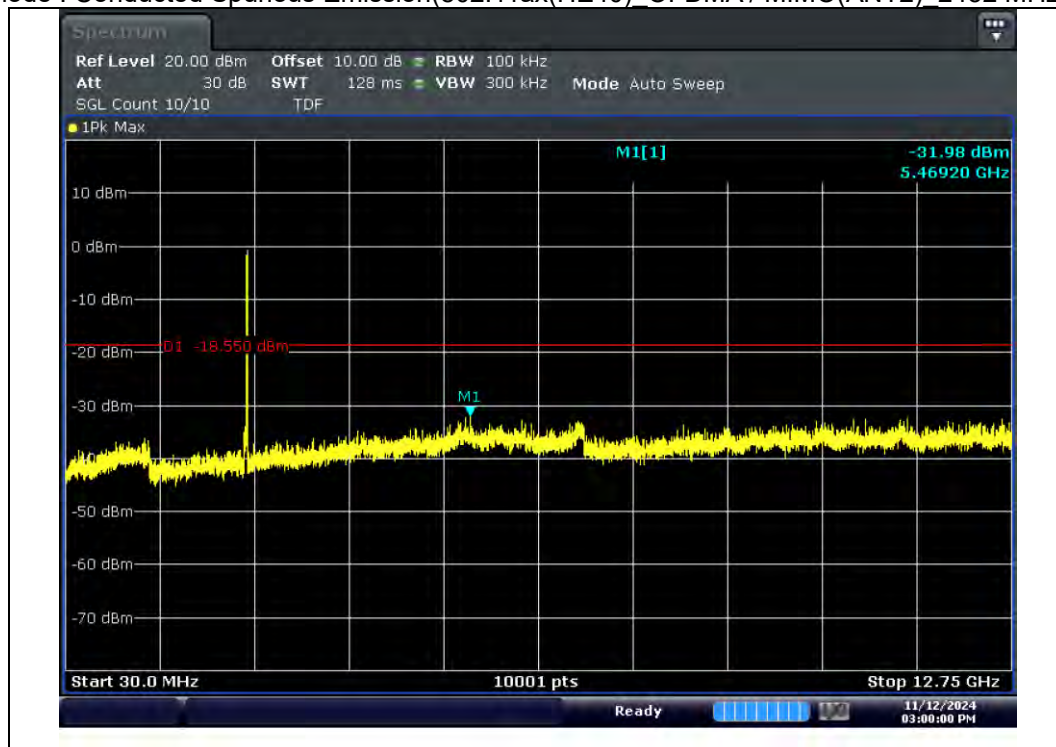
Test mode : Reference(802.11ax(HE40)_OFDMA / MIMO(ANT2)_2452 MHz)



Test mode : Bandedge(802.11ax(HE40)_OFDMA / MIMO(ANT2)_2452 MHz)



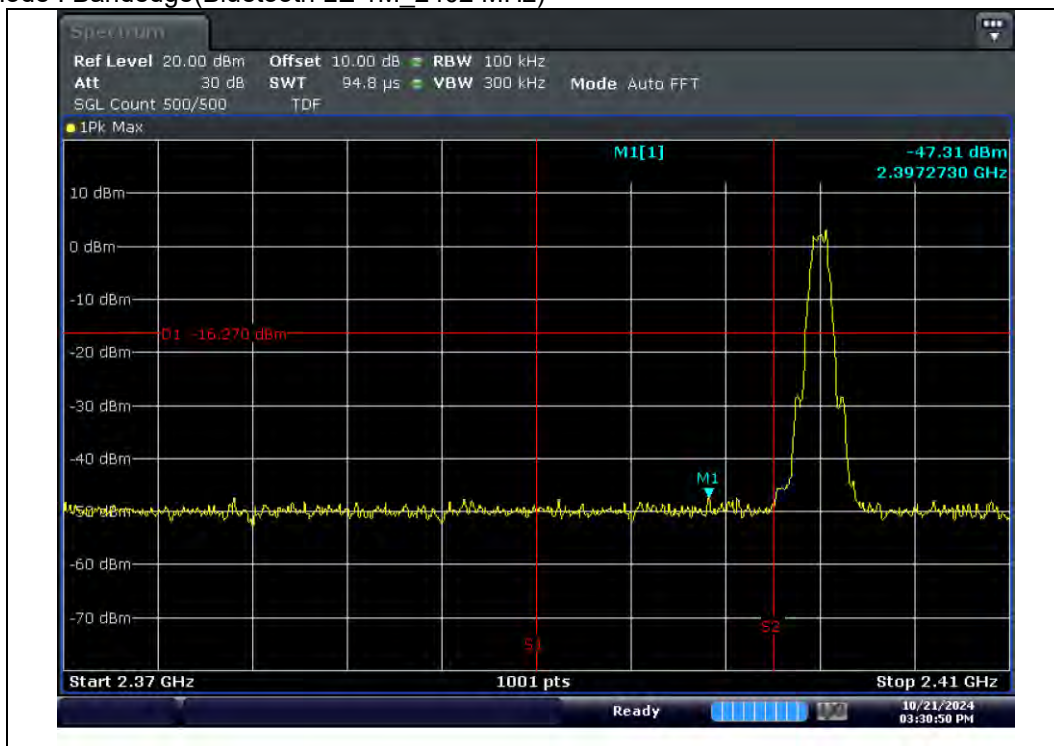
Test mode : Conducted Spurious Emission(802.11ax(HE40) OFDMA / MIMO(ANT2) 2452 MHz)



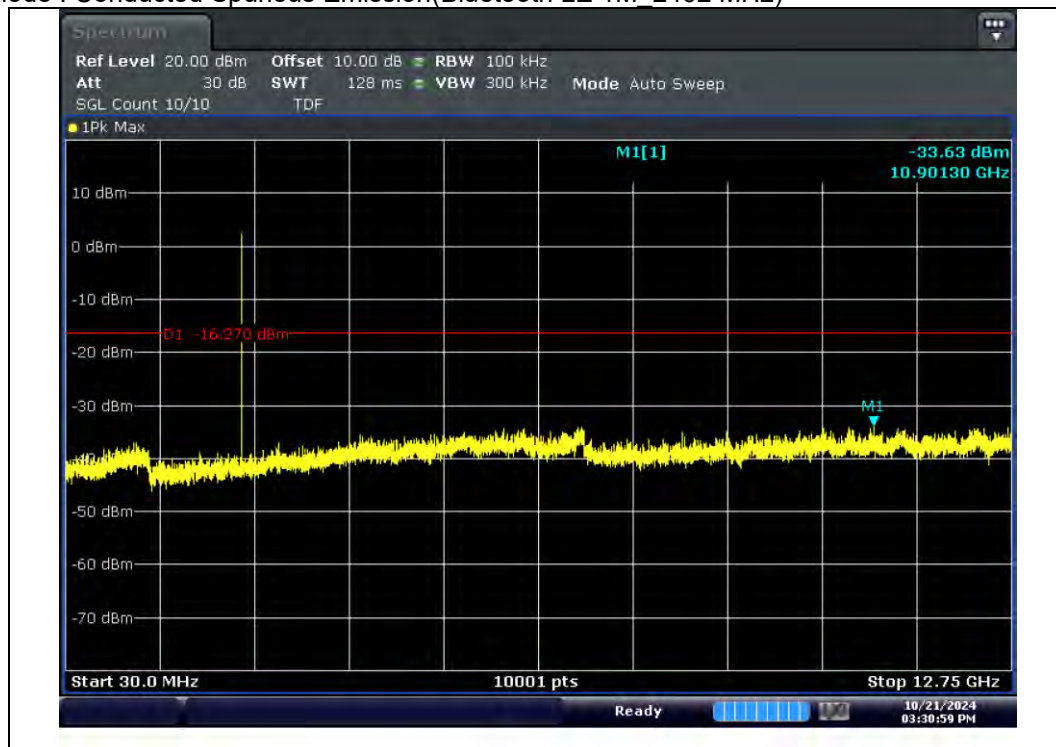
Test Mode : Reference(Bluetooth LE 1M_2402 MHz)



Test Mode : Bandedge(Bluetooth LE 1M_2402 MHz)



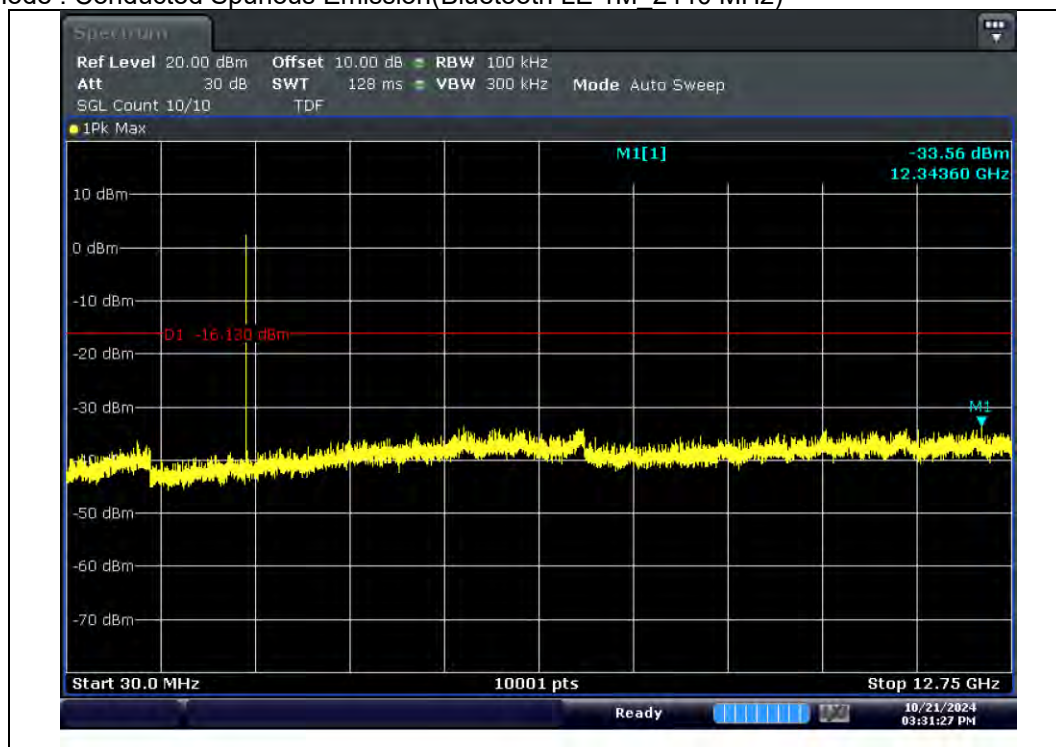
Test Mode : Conducted Spurious Emission(Bluetooth LE 1M 2402 MHz)



Test Mode : Reference(Bluetooth LE 1M 2440 MHz)



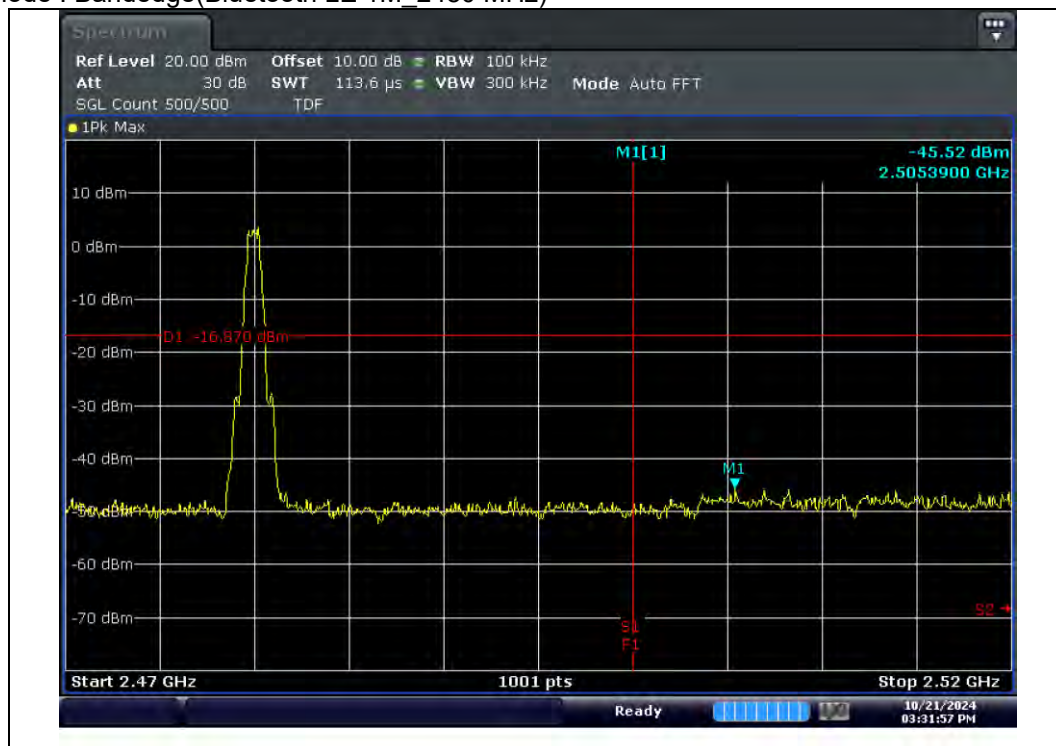
Test Mode : Conducted Spurious Emission(Bluetooth LE 1M 2440 MHz)



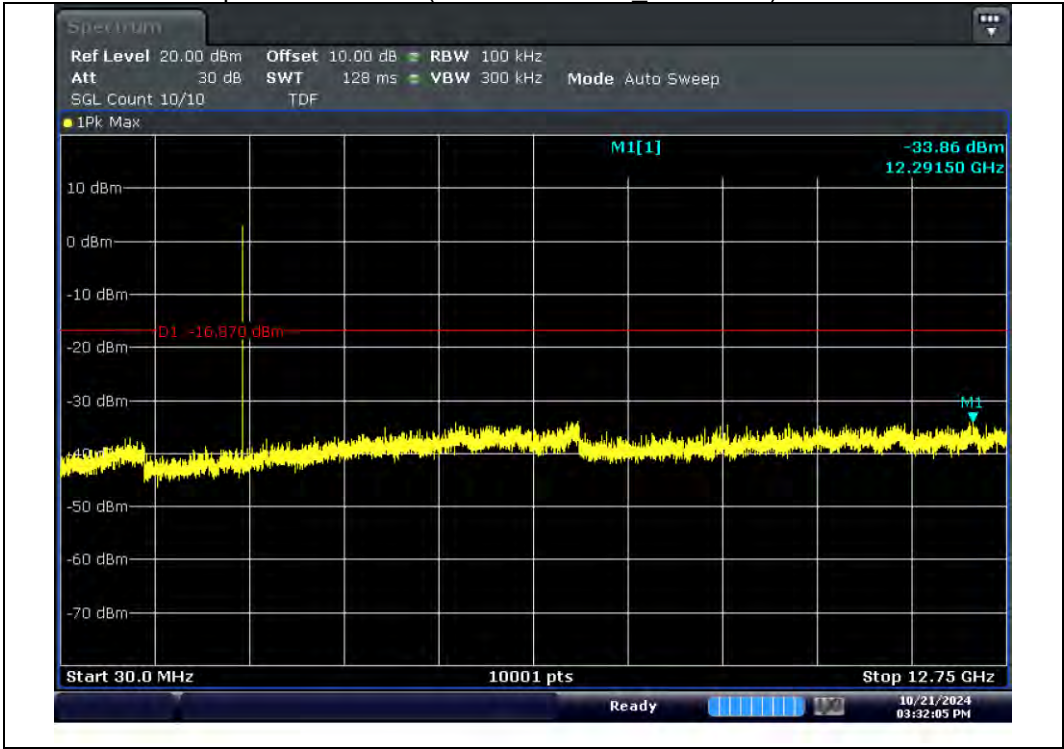
Test Mode : Reference(Bluetooth LE 1M_2480 MHz)



Test Mode : Bandedge(Bluetooth LE 1M_2480 MHz)



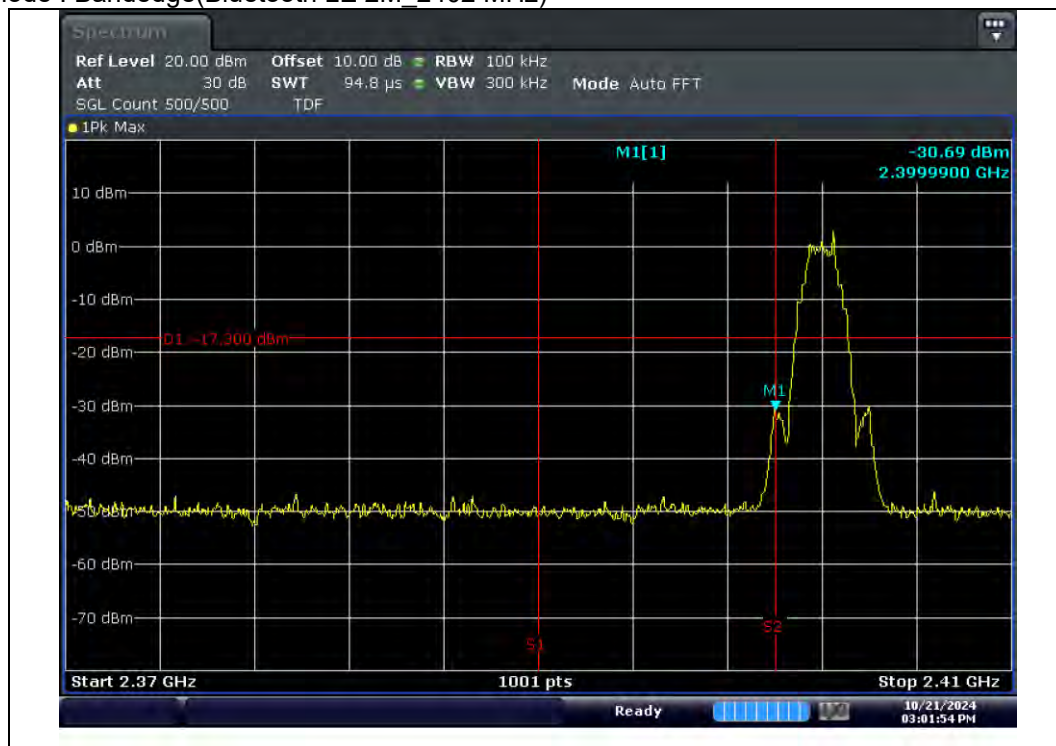
Test Mode : Conducted Spurious Emission(Bluetooth LE 1M 2480 MHz)



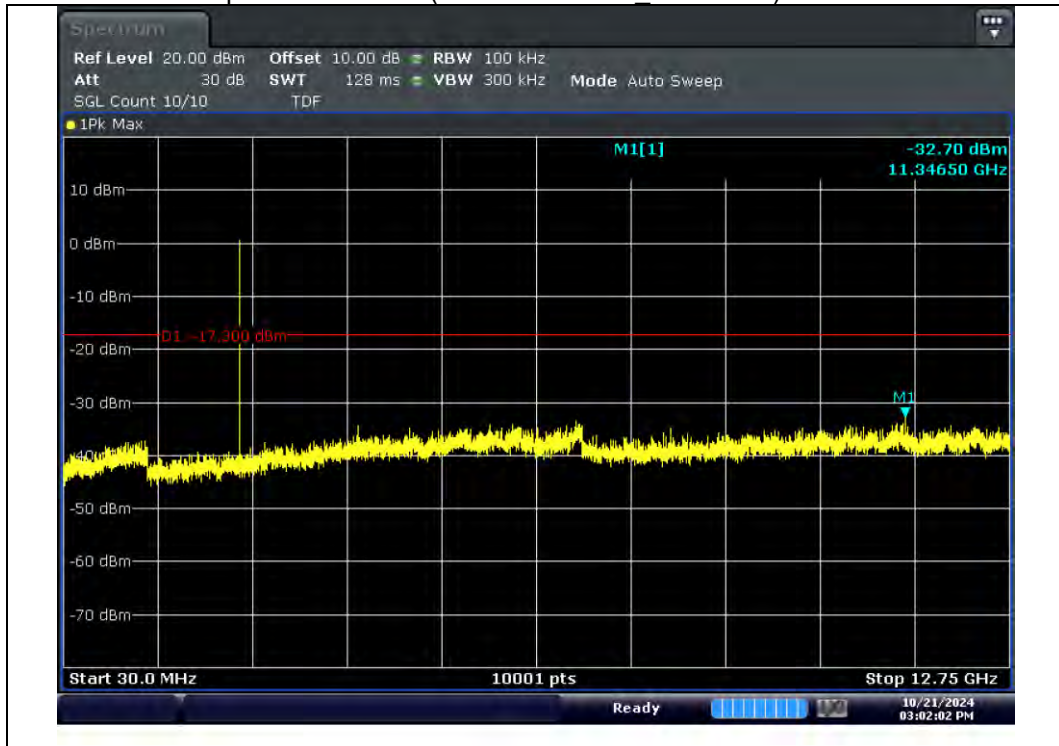
Test Mode : Reference(Bluetooth LE 2M_2402 MHz)



Test Mode : Bandedge(Bluetooth LE 2M_2402 MHz)



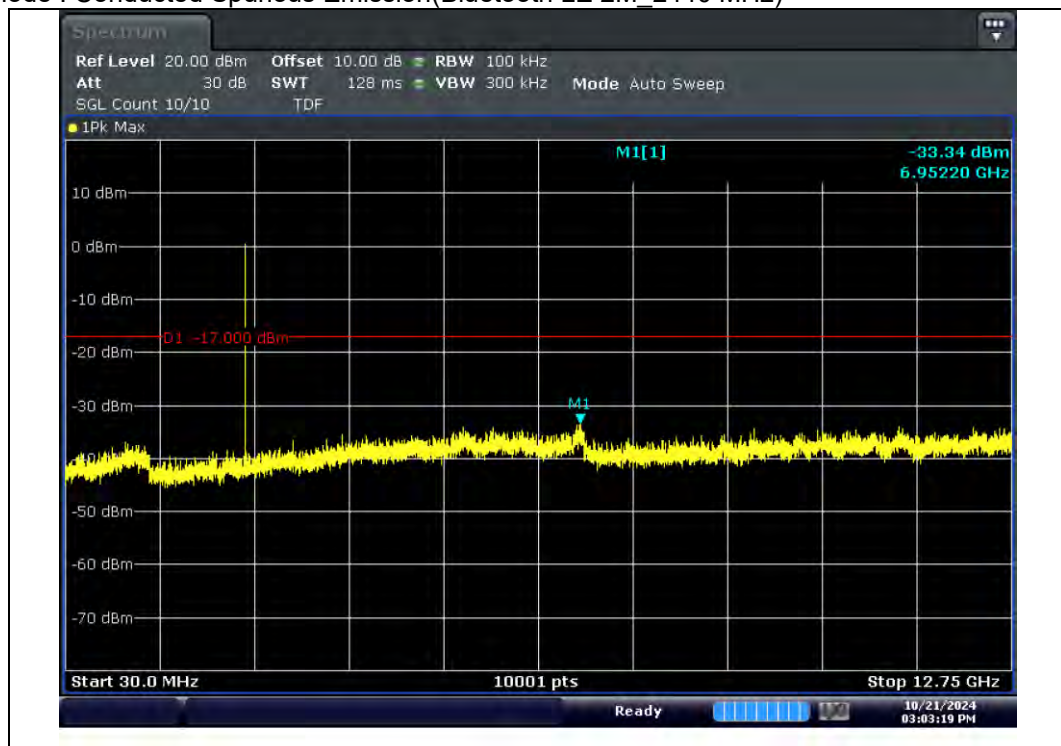
Test Mode : Conducted Spurious Emission(Bluetooth LE 2M 2402 MHz)



Test Mode : Reference(Bluetooth LE 2M_2440 MHz)



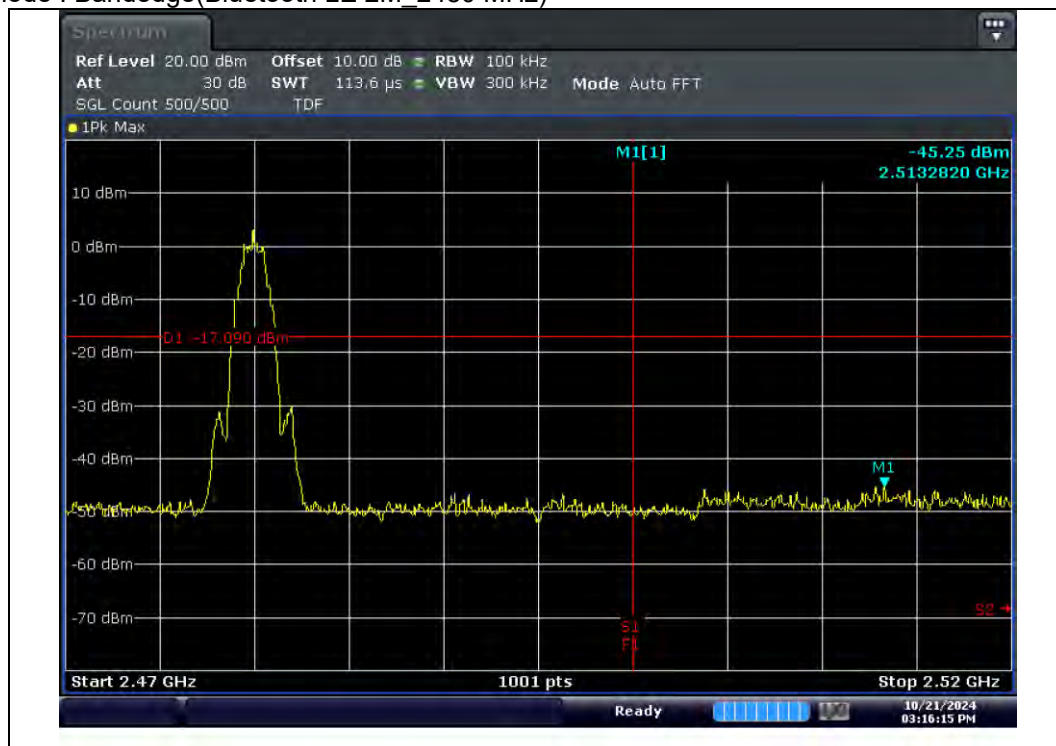
Test Mode : Conducted Spurious Emission(Bluetooth LE 2M_2440 MHz)



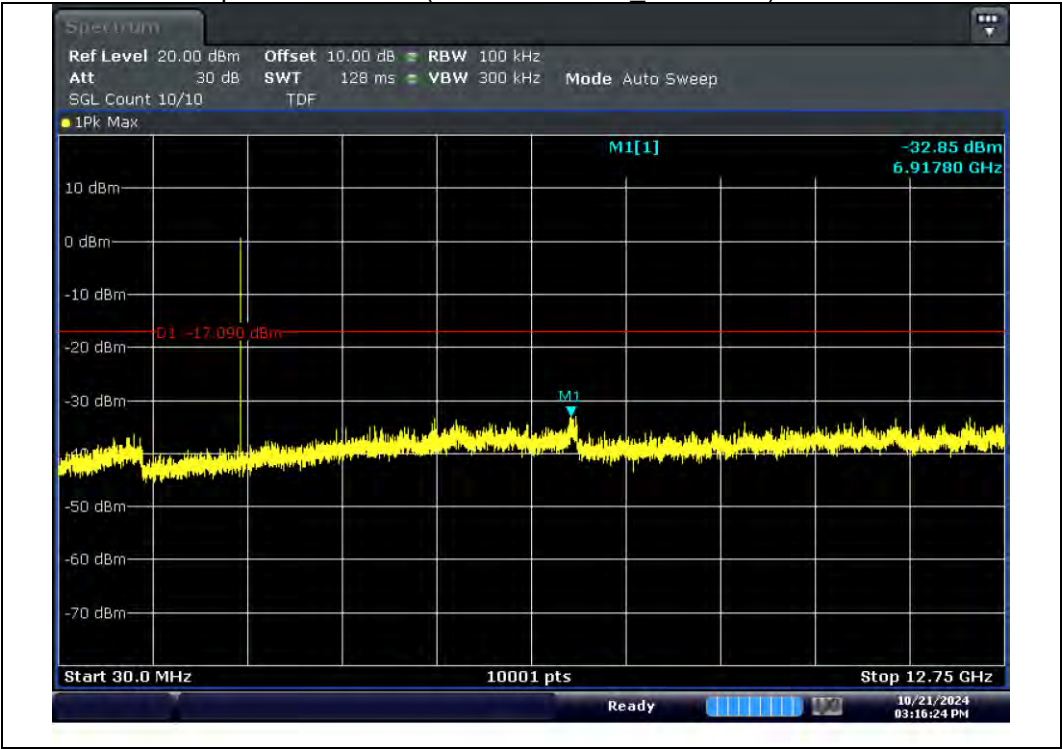
Test Mode : Reference(Bluetooth LE 2M_2480 MHz)



Test Mode : Bandedge(Bluetooth LE 2M_2480 MHz)



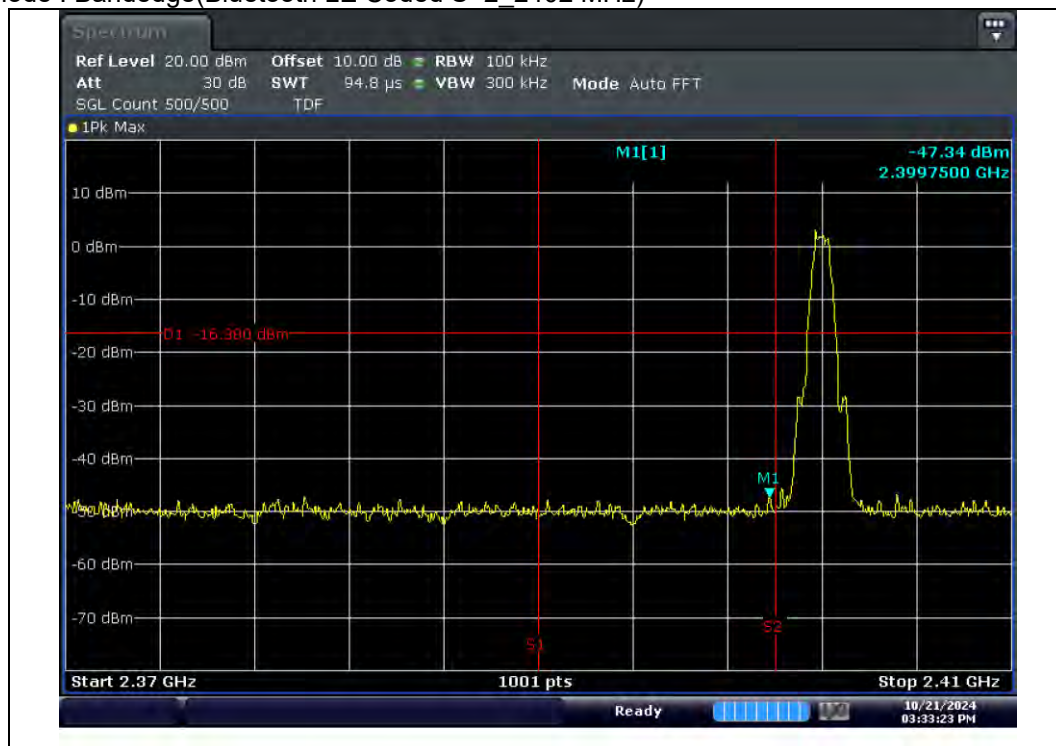
Test Mode : Conducted Spurious Emission(Bluetooth LE 2M 2480 MHz)



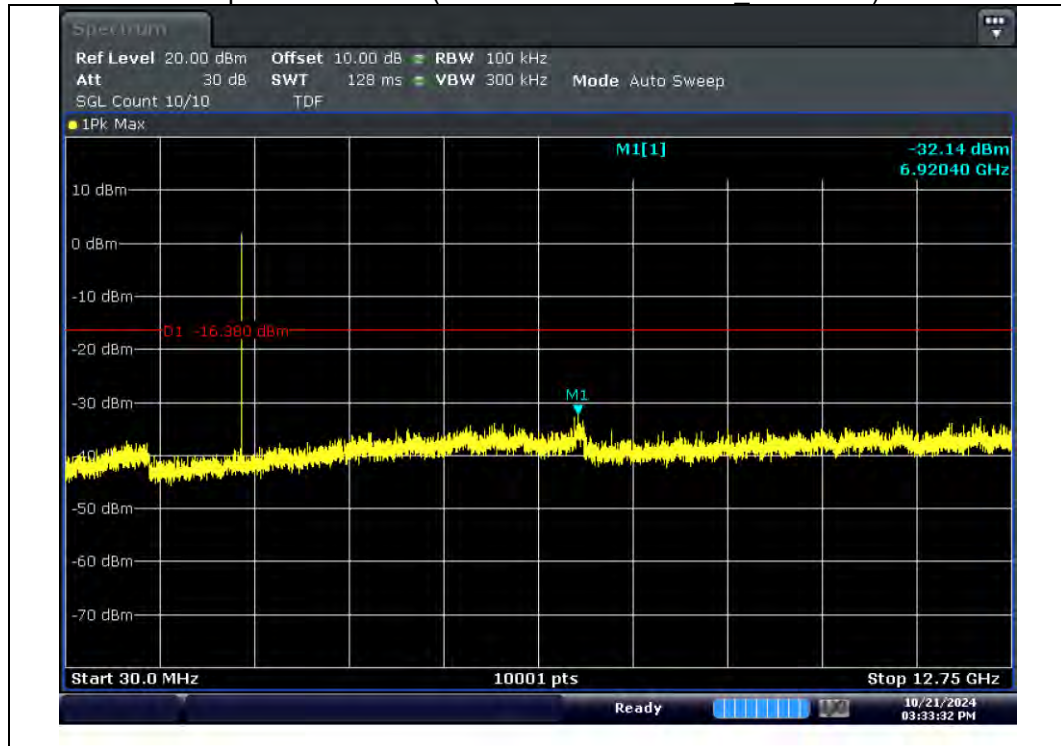
Test Mode : Reference(Bluetooth LE Coded S=2_2402 MHz)



Test Mode : Bandedge(Bluetooth LE Coded S=2_2402 MHz)



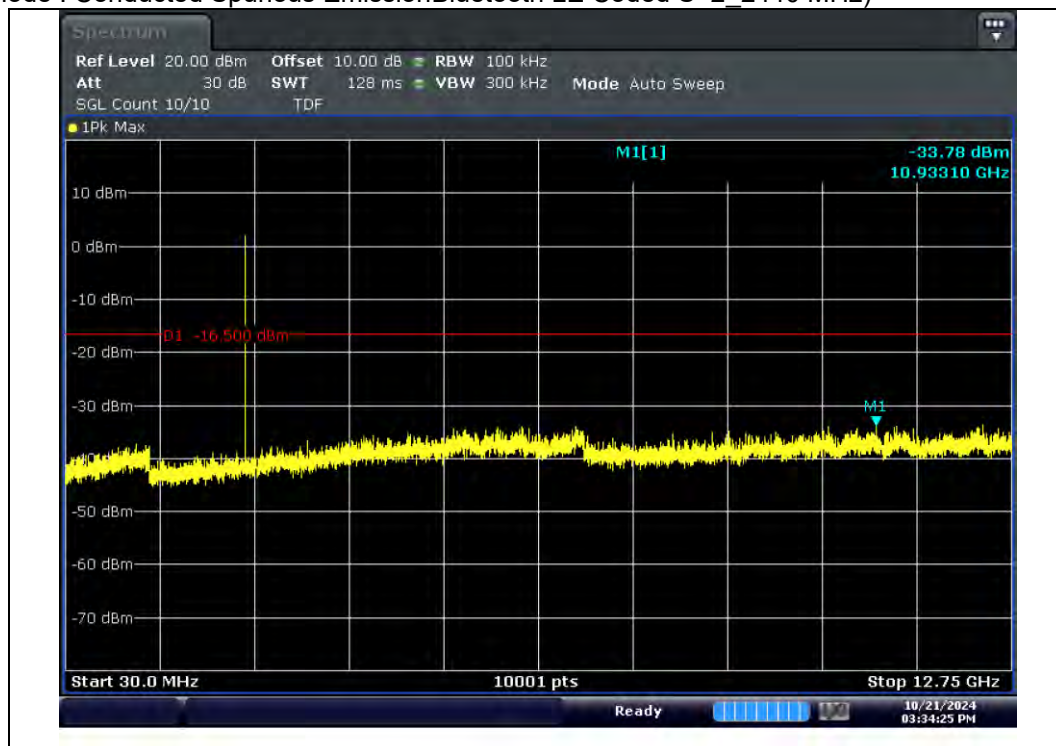
Test Mode : Conducted Spurious Emission(Bluetooth LE Coded S=2 2402 MHz)



Test Mode : Reference(Bluetooth LE Coded S=2_2440 MHz)



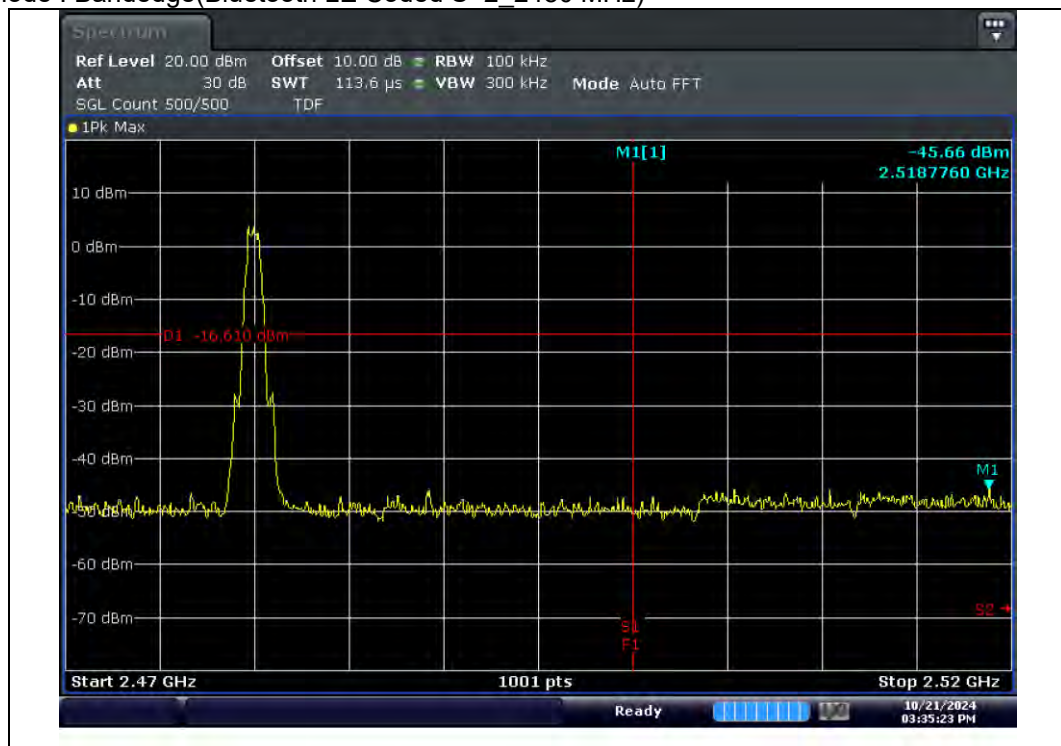
Test Mode : Conducted Spurious EmissionBluetooth LE Coded S=2_2440 MHz)



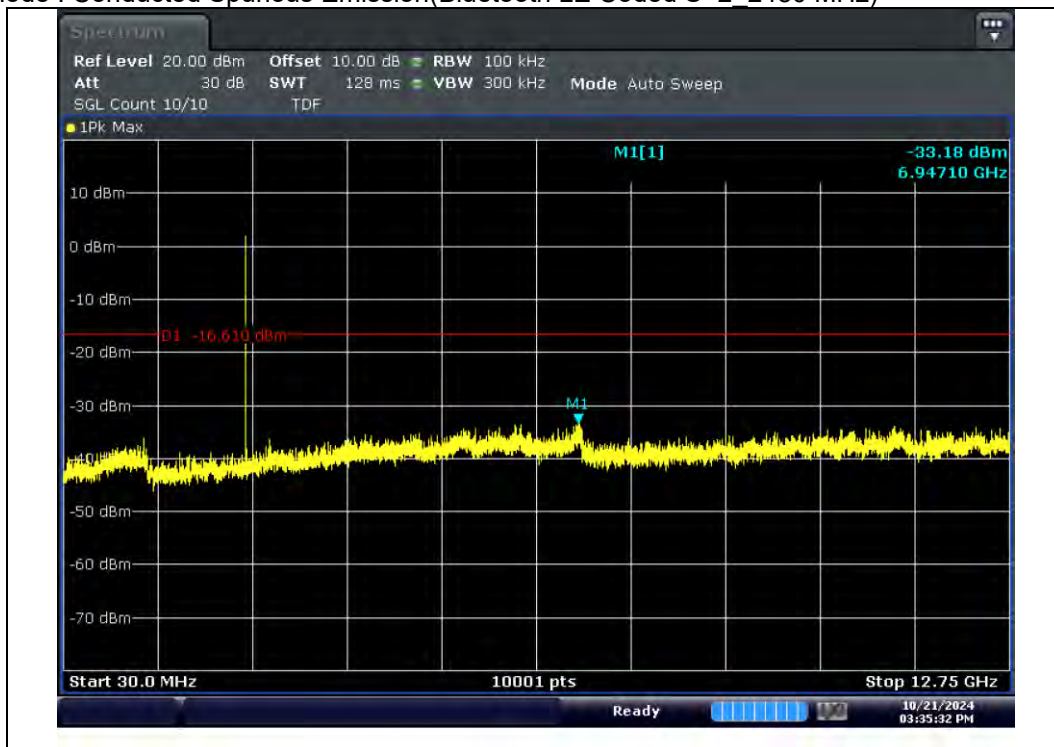
Test Mode : Reference(Bluetooth LE Coded S=2_2480 MHz)



Test Mode : Bandedge(Bluetooth LE Coded S=2_2480 MHz)



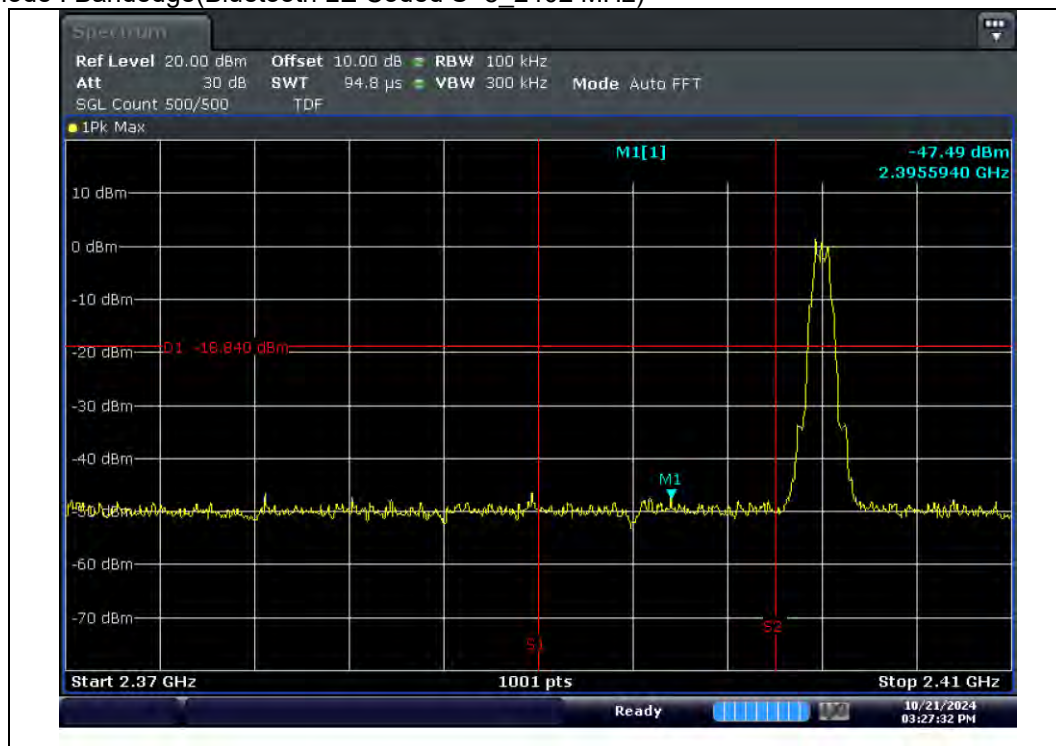
Test Mode : Conducted Spurious Emission(Bluetooth LE Coded S=2 2480 MHz)



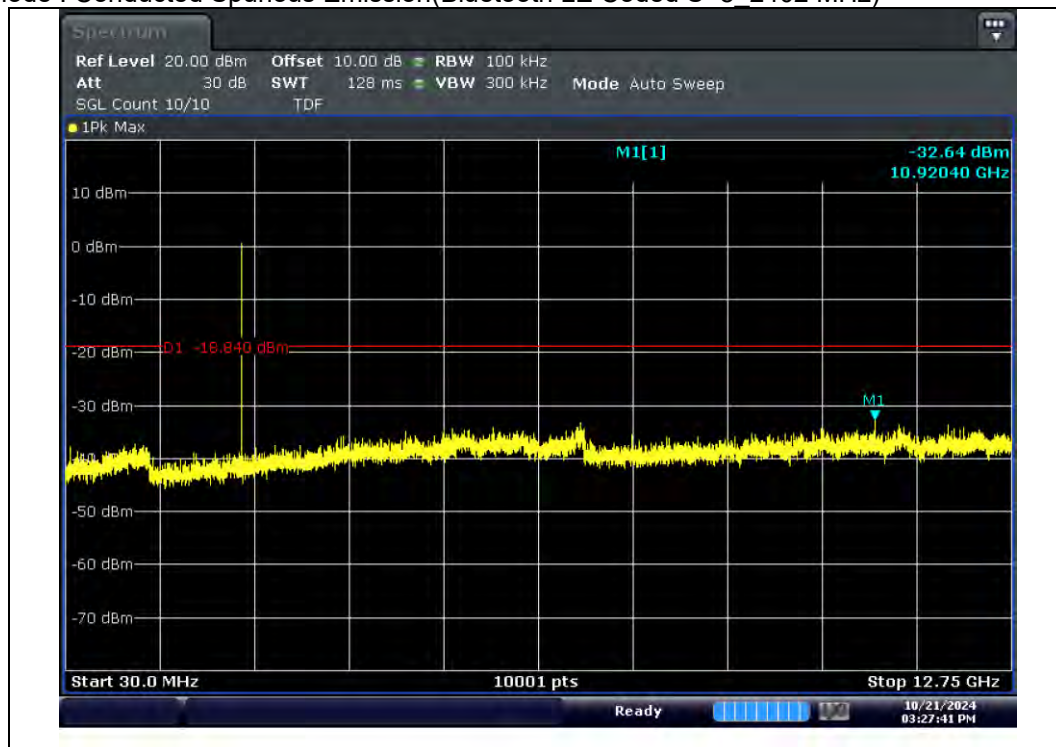
Test Mode : Reference(Bluetooth LE Coded S=8_2402 MHz)



Test Mode : Bandedge(Bluetooth LE Coded S=8_2402 MHz)



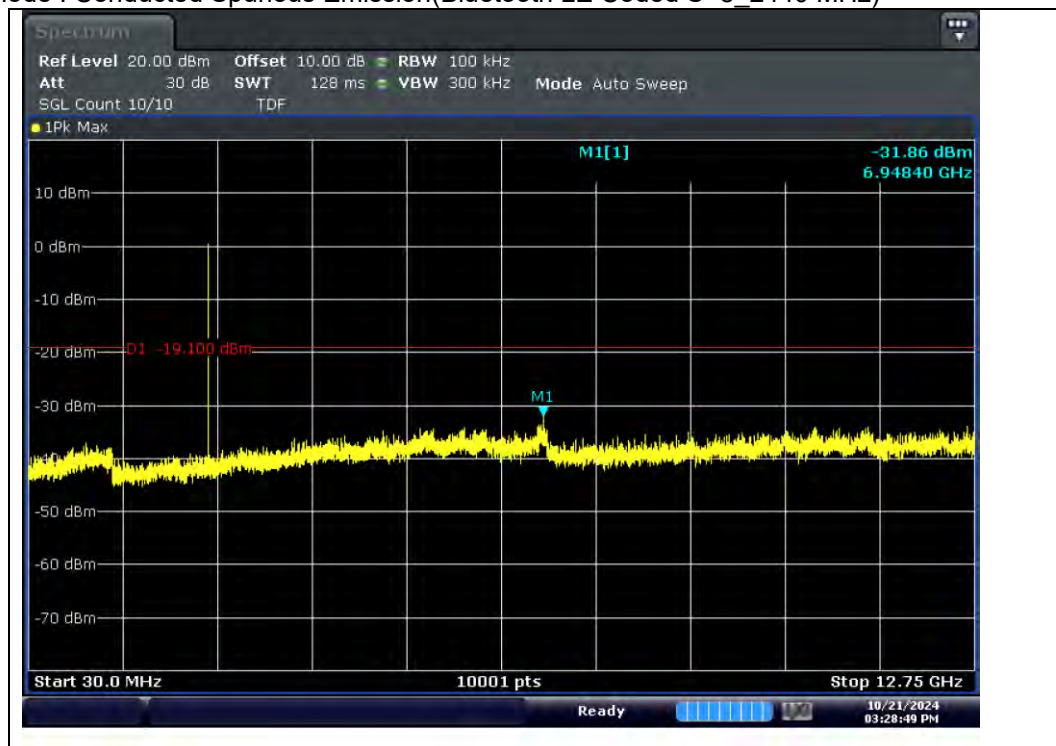
Test Mode : Conducted Spurious Emission(Bluetooth LE Coded S=8 2402 MHz)



Test Mode : Reference(Bluetooth LE Coded S=8_2440 MHz)



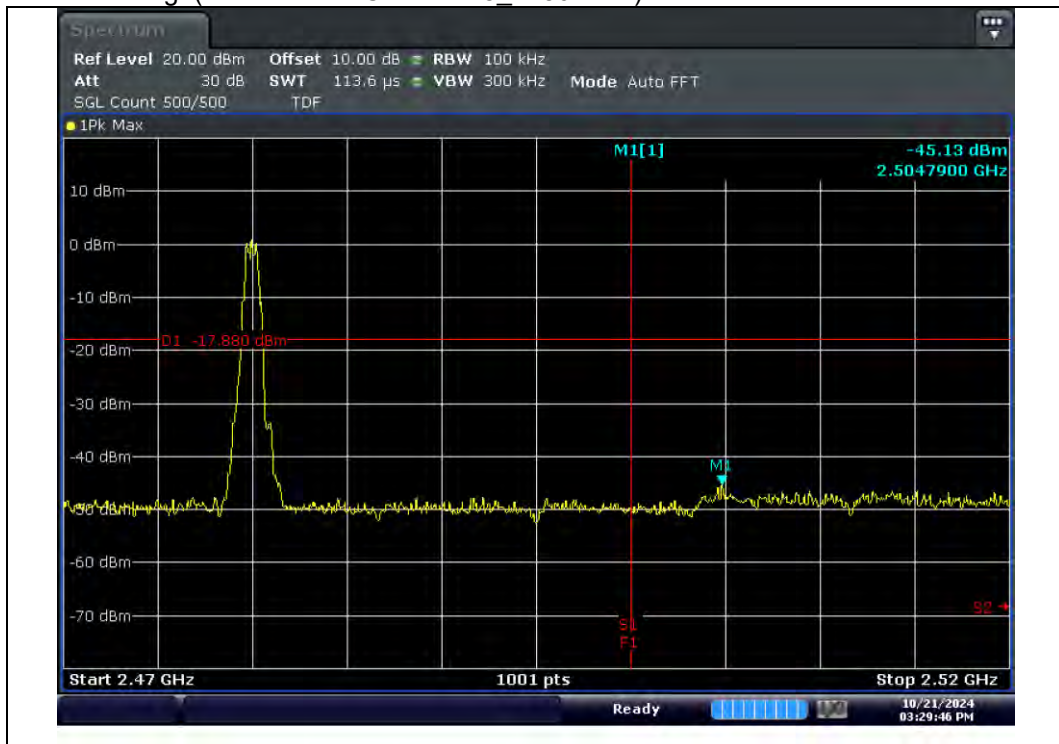
Test Mode : Conducted Spurious Emission(Bluetooth LE Coded S=8_2440 MHz)



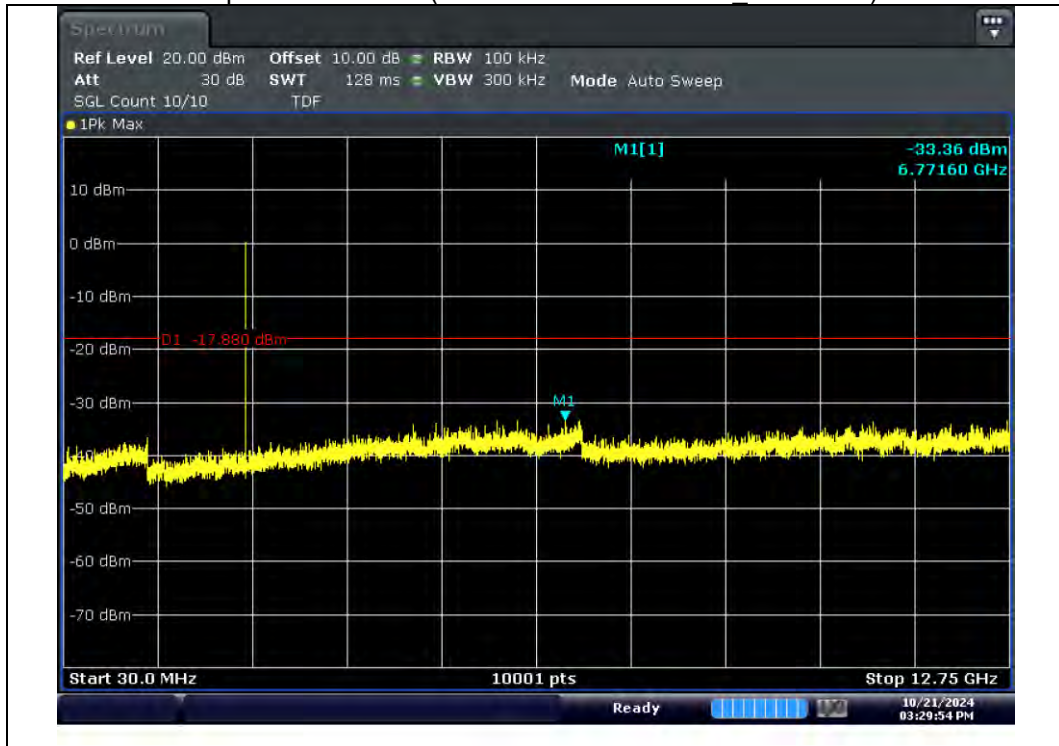
Test Mode : Reference(Bluetooth LE Coded S=8_2480 MHz)



Test Mode : Bandedge(Bluetooth LE Coded S=8_2480 MHz)



Test Mode : Conducted Spurious Emission(Bluetooth LE Coded S=8 2480 MHz)



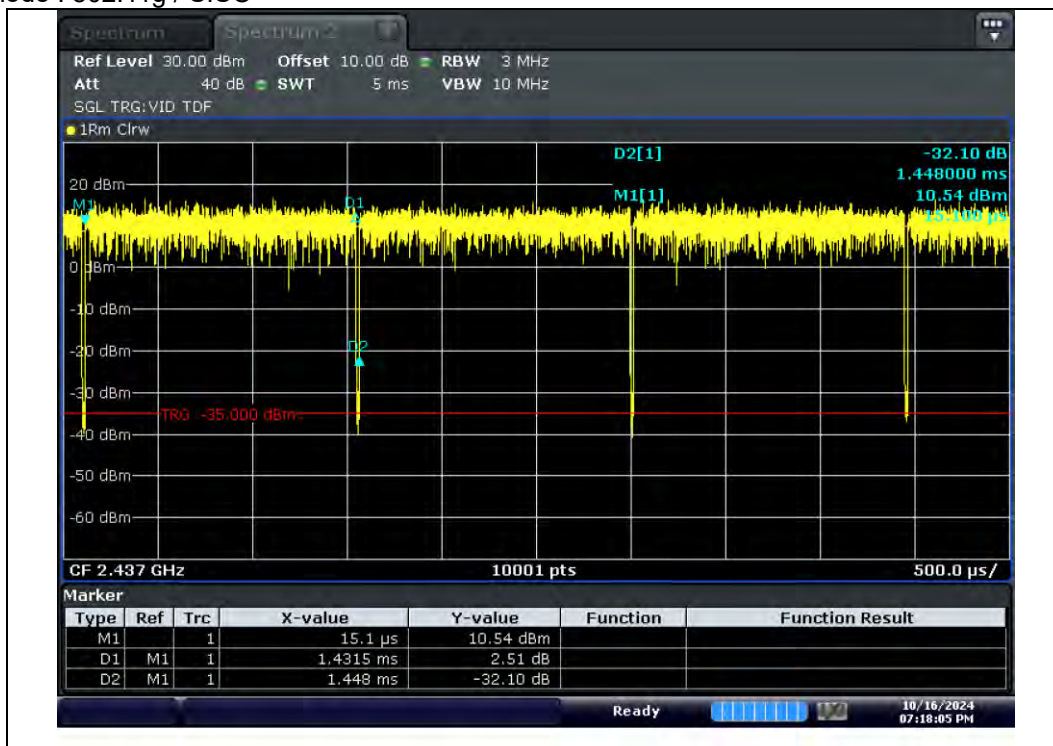
4.3.5.8 Duty Cycle Measurement data^{Note1}

Test mode : 802.11b / SISO



Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.01$ dB

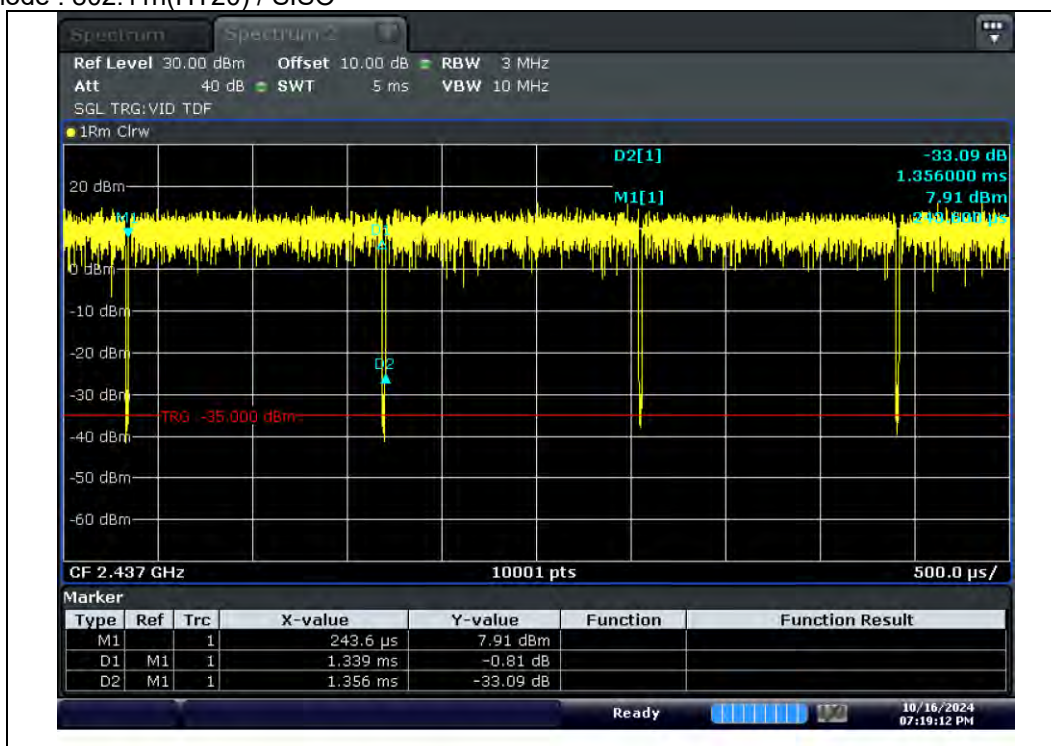
Test mode : 802.11g / SISO



Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.05$ dB

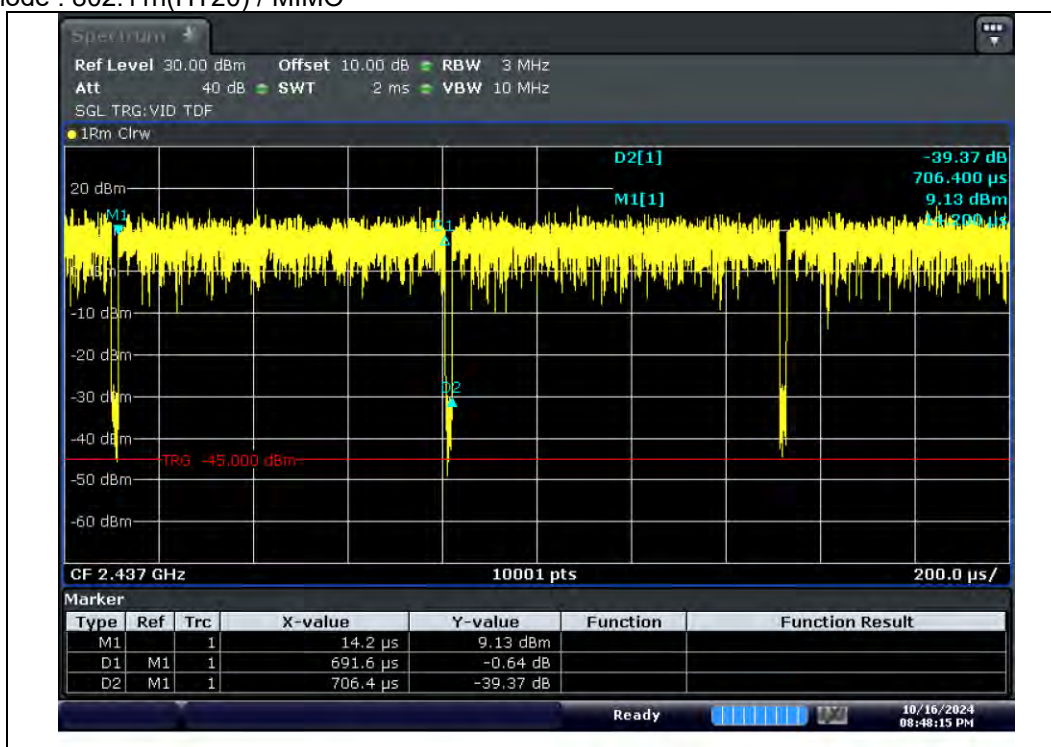
Note 1 : Only one representation of the same duty cycle in SISO(Antenna 1,2) and MIMO operating modes.

Test mode : 802.11n(HT20) / SISO



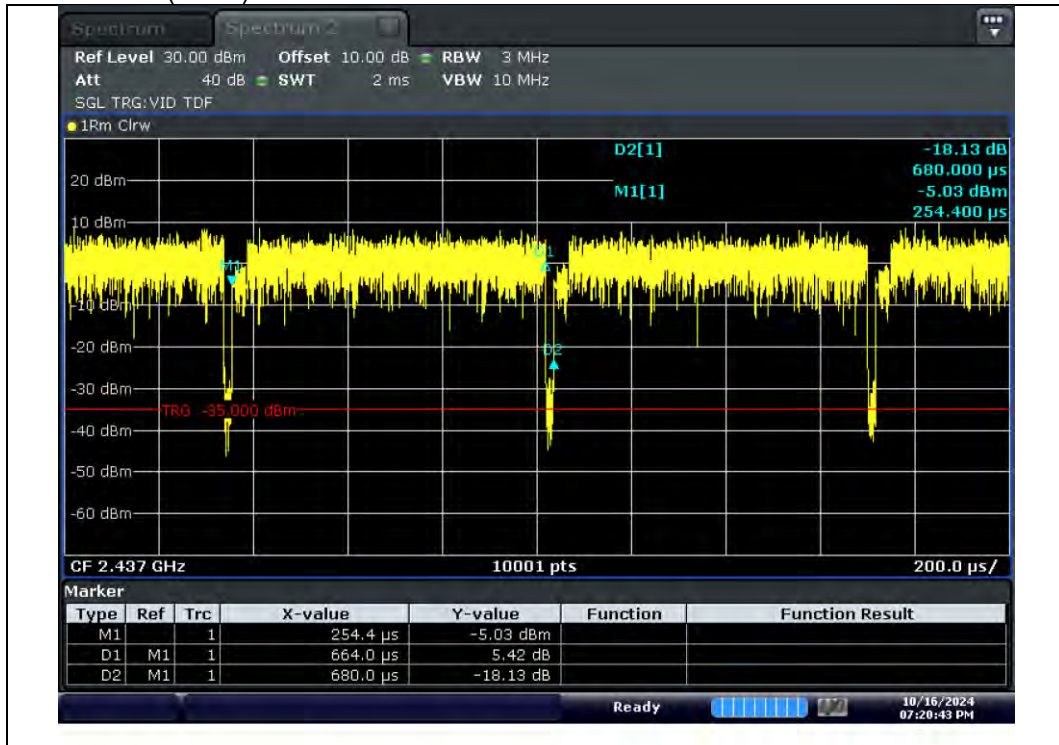
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.05$ dB

Test mode : 802.11n(HT20) / MIMO



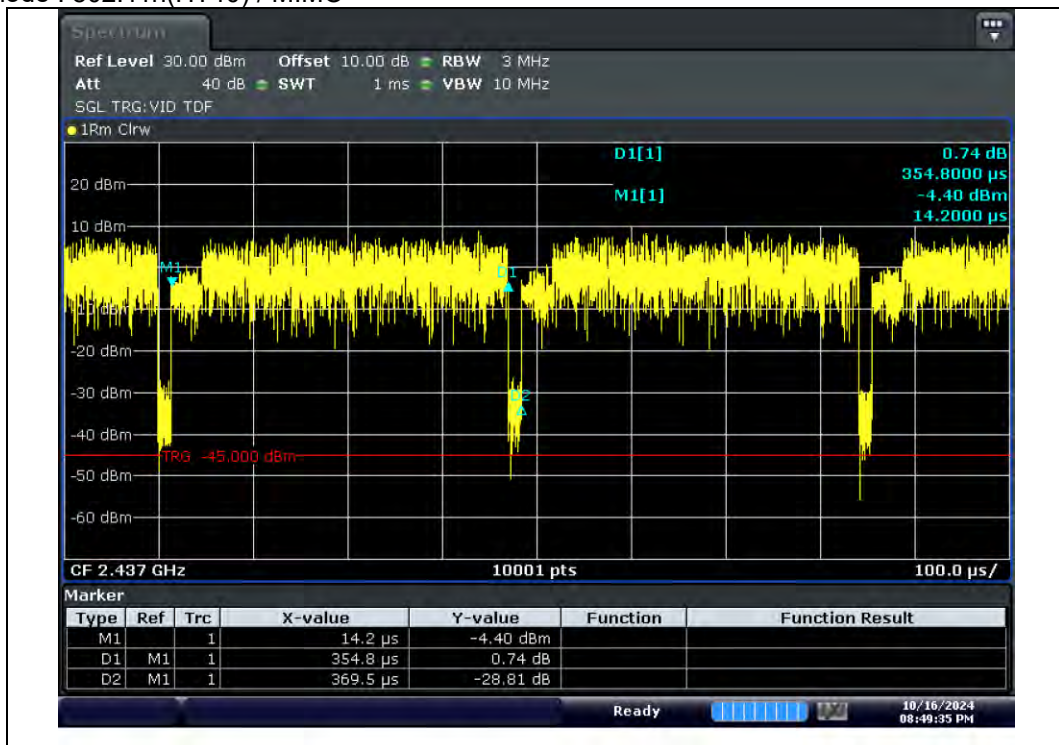
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.1$ dB

Test mode : 802.11n(HT40) / SISO



Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.1 \text{ dB}$

Test mode : 802.11n(HT40) / MIMO



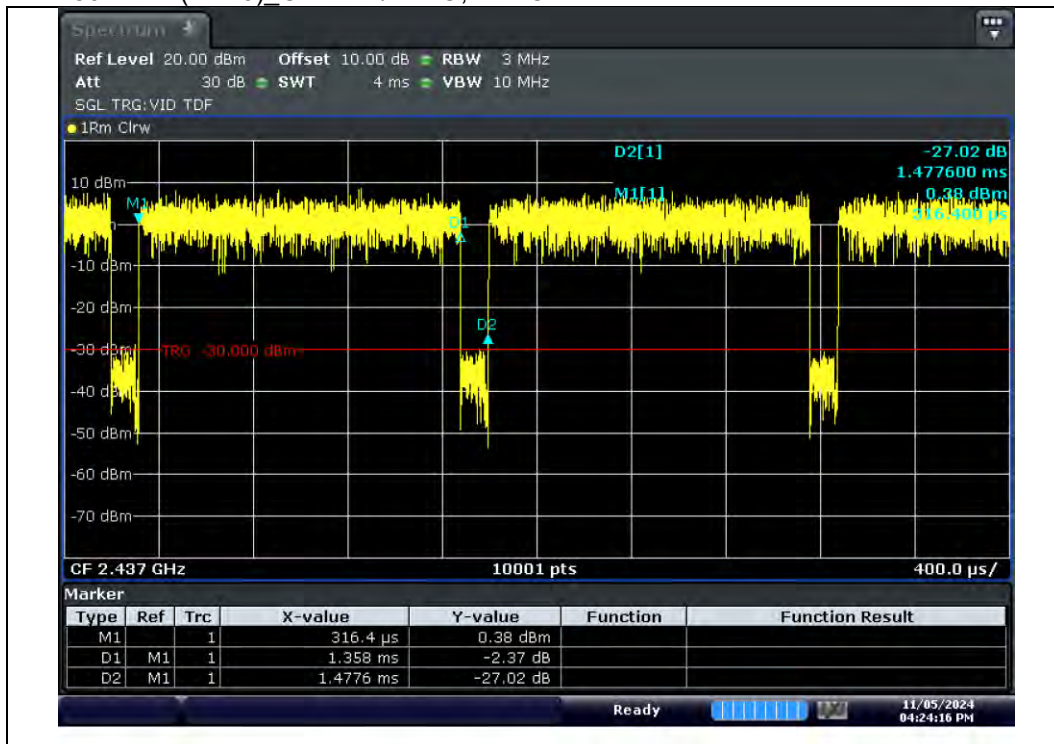
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.1 \text{ dB}$

Test mode : 802.11ax(HE20)_OFDM / SISO, MIMO



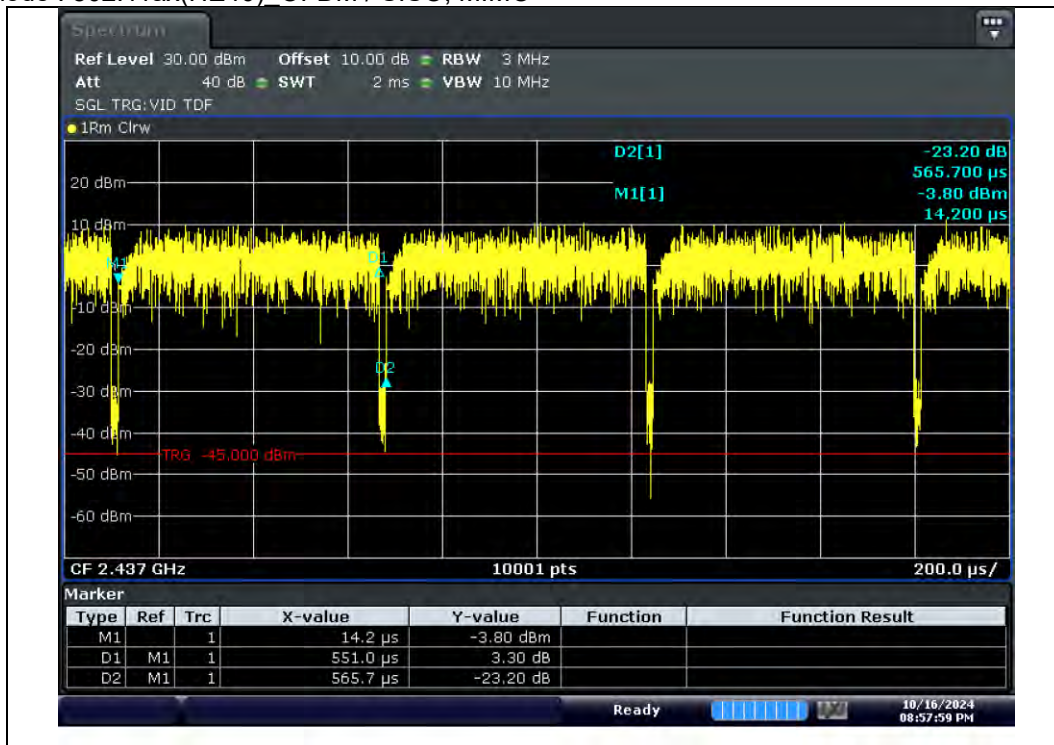
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.06$ dB

Test mode : 802.11ax(HE20)_OFDMA / SISO, MIMO



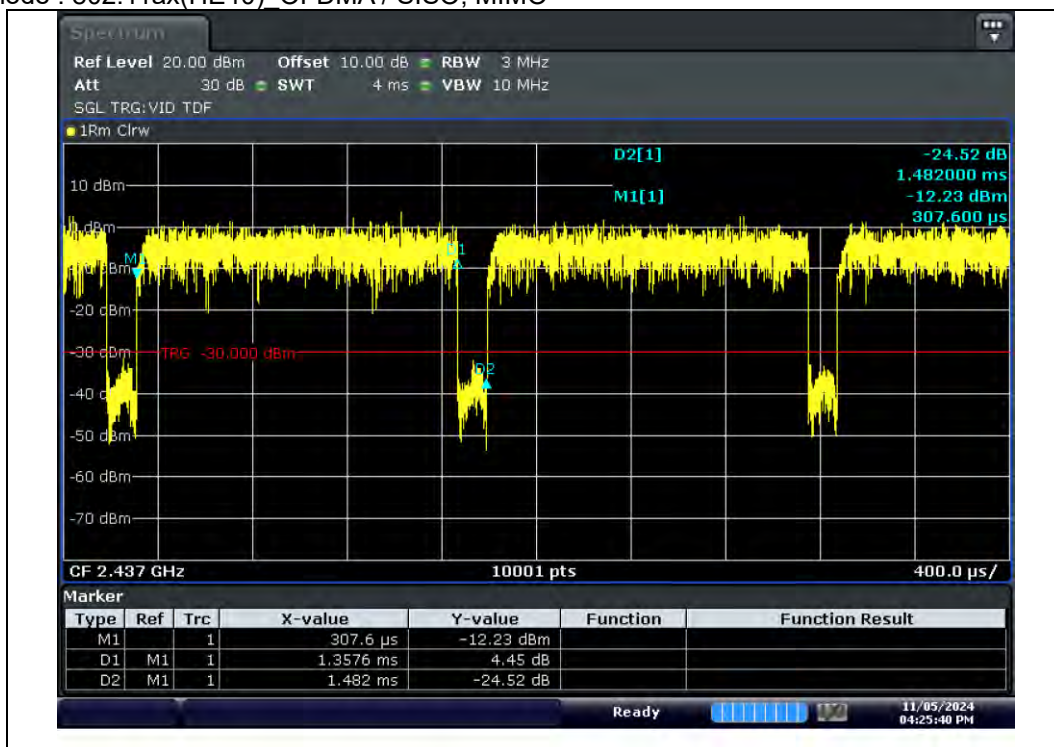
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.37$ dB

Test mode : 802.11ax(HE40) OFDM / SISO, MIMO



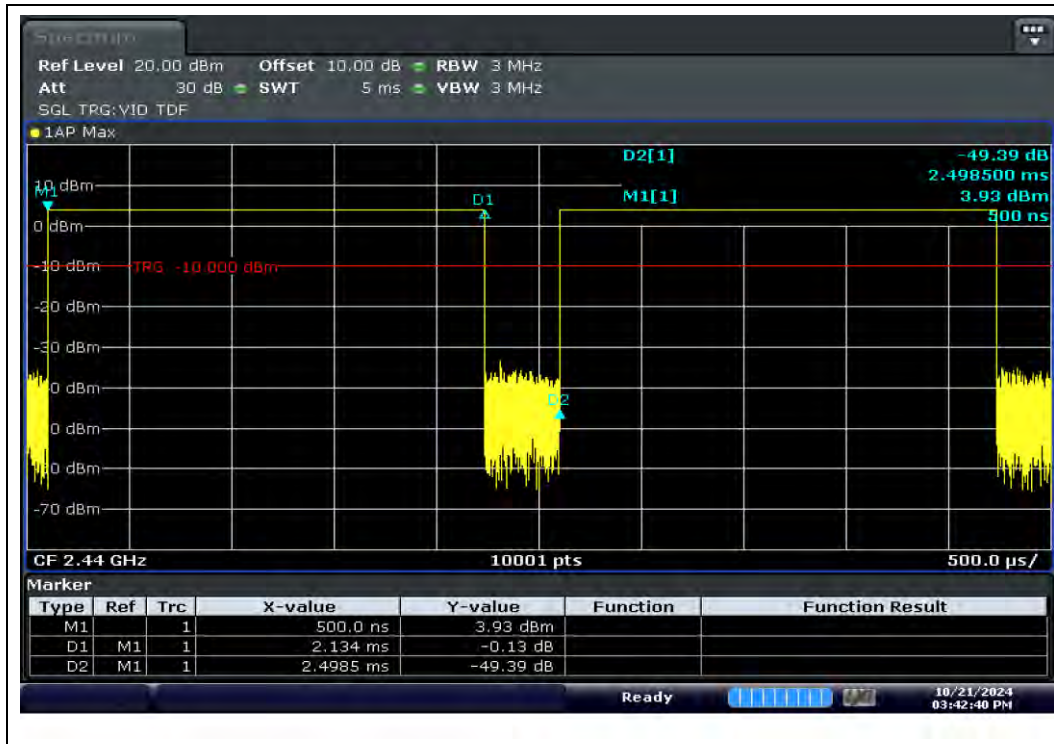
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.11 \text{ dB}$

Test mode : 802.11ax(HE40) OFDMA / SISO, MIMO



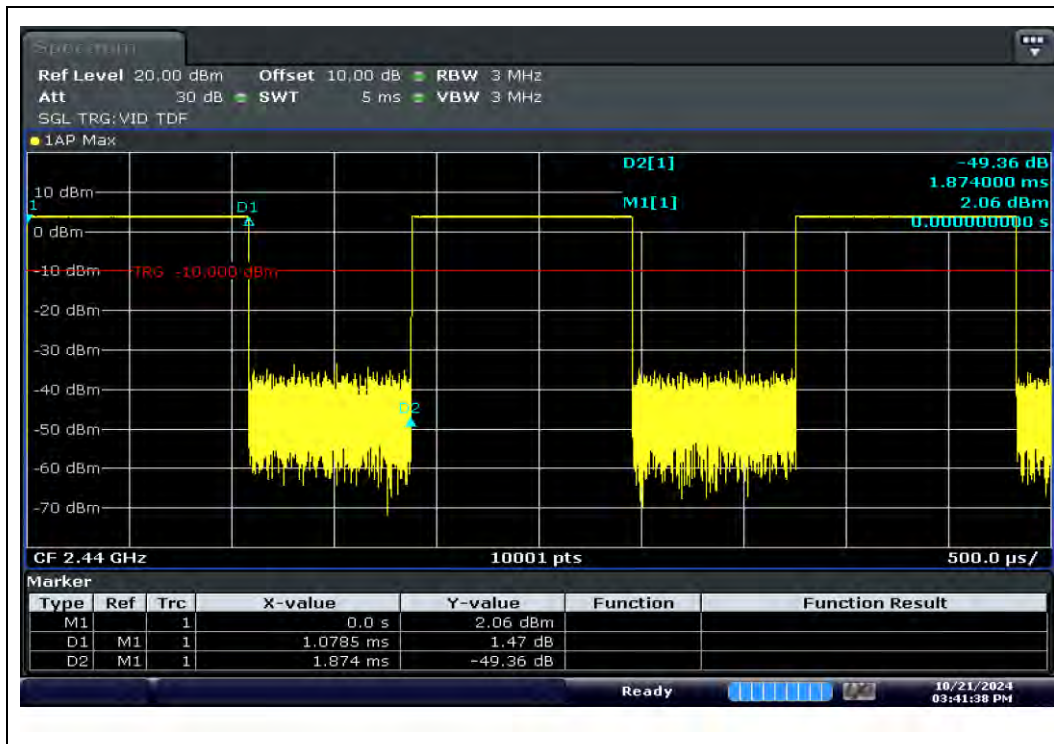
Average factor(dB) : $10\log(\text{ontime}/\text{period}) = 0.38 \text{ dB}$

Test Mode : Bluetooth LE 1M



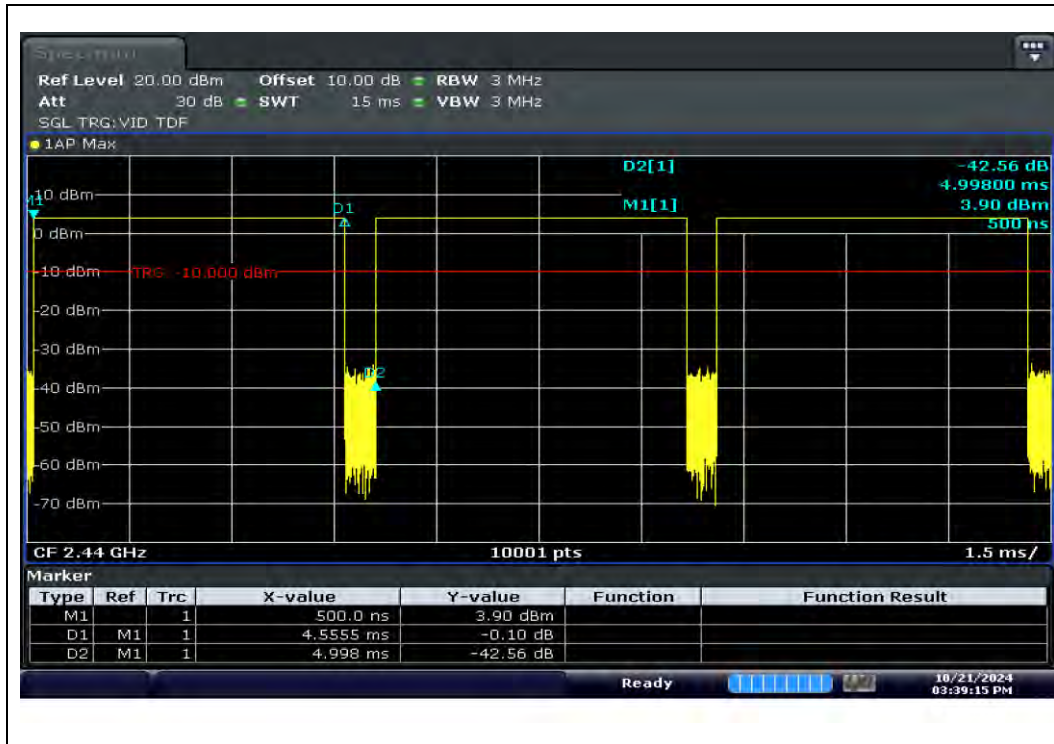
Average Factor(dB) : $10 \cdot \log(1/(\text{Ontime}/\text{Period})) = 0.68 \text{ dB}$

Test Mode : Bluetooth LE 2M



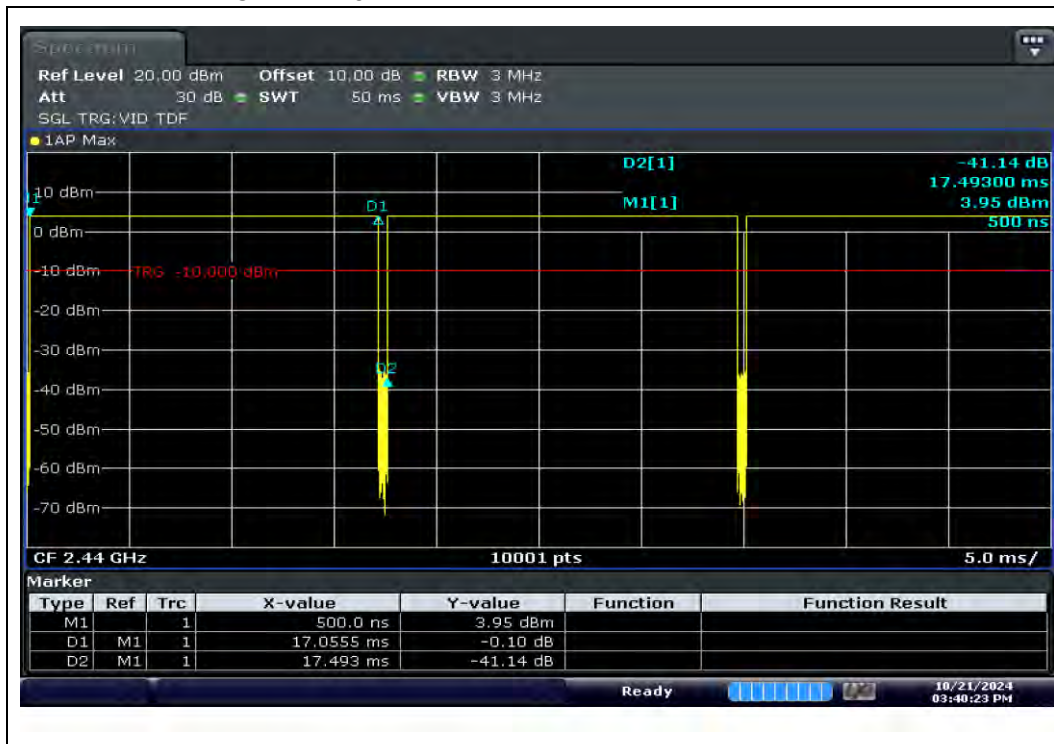
Average Factor(dB) : $10 \cdot \log(1/(\text{Ontime}/\text{Period})) = 2.40 \text{ dB}$

Test Mode : Bluetooth LE Coded S=2



Average Factor(dB) : $10 \cdot \log(1/(\text{Ontime}/\text{Period})) = 0.40 \text{ dB}$

Test Mode : Bluetooth LE Coded S=8



Average Factor(dB) : $10 \cdot \log(1/(\text{Ontime}/\text{Period})) = 0.11 \text{ dB}$

4.3.6 Conducted Emission

4.3.6.1 Regulation

According to §15.207(a), and RSS-GEN 8.8 for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15 – 0.5	66 to 56 *	56 to 46 *
0.5 – 5	56	46
5 - 30	60	50

* Decreases with the logarithm of the frequency.

According to §15.107(a), for unintentional device, except for Class A digital devices, line conducted emission limits are the same as the above table.

4.4.6.2 Measurement Procedure

1) The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5 m away from the side wall of the shielded room.

2) Each current-carrying conductor of the EUT power cord was individually connected through a 50 Ω /50 μ H LISN, which is an input transducer to a Spectrum Analyzer or an EMI/Field Intensity Meter, to the input power source.

3) Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.

4) The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment is the system) was then performed over the frequency range of 0.15 MHz to 30 MHz.

5) The measurements were made with the detector set to PEAK amplitude within a bandwidth of 10 kHz or to QUASIPeAK and AVERAGE within a bandwidth of 9 kHz. The EUT was in transmitting mode during the measurements.

4.3.6.3 Result

N/A (The device only uses DC power, so it was not tested)

APPENDIX I

TEST EQUIPMENT USED FOR TESTS

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment.

Equipment	Manufacturer	Model	Serial No.	Cal. Date (yy.mm.dd)	Next Cal.Date (yy.mm.dd)
FSV Signal Analyzer	ROHDE&SCHWARZ	FSV40	101010	2024-04-01	2025-04-01
FSV Signal Analyzer	ROHDE&SCHWARZ	FSV30	103370	2024-10-10	2025-10-10
ATTENUATOR	WEINSCHL	54A-10	69672	2024-10-10	2025-10-10
Power Sensor	KEYSIGHT	U2022XA	MY55320008	2024-08-12	2025-08-12
Digital MultiMeter	HP	34401A	US36025428	2024-01-04	2025-01-04
Power Supply	KIKUSUI	PWX1500L	SM002050	2024-08-12	2025-08-12
Signal Generator	ROHDE&SCHWARZ	SMB100A	178384	2024-10-10	2025-10-10
EMI Test Receiver	ROHDE&SCHWARZ	ESU40	100445	2024-09-04	2025-09-04
BiLog Antenna	Schwarzbeck	VULB9168	821	2023-03-29	2025-03-29
ATTENUATOR	JFW	50F-006	6 dB-3	2024-04-01	2025-04-01
Antenna Mast	TOKIN	5977	-	-	-
Antenna Mast	Innco	MA4640-XPET-0800	578	-	-
Controller	TOKIN	5909L	141909L-1	-	-
Controller	Innco	CO3000	40040217	-	-
Turn Table	TOKIN	5983-1.5	-	-	-
Active Loop H-Field	ETS	6502	00150598	2024-04-02	2026-06-03
Double Ridge Horn Antenna	ETS	3117	168719	2024-08-05	2025-08-05
Double Ridge Horn Antenna	A.H Systems, Inc	SAS-574	465	2023-04-18	2025-04-18
PREAMPLIFIER	Agilent	8449B	3008A02110	2024-01-08	2025-01-08
PREAMPLIFIER	A.H Systems, Inc	PAM-1840VH	166	2024-01-08	2025-01-08
Preamplifier	TSJ	MLA-10k01-b01-27	1870367	2024-04-01	2025-04-01
High pass filter	Wainwright Instruments GmbH	WHKX10-2580-3000-18000-60SS	14	2024-01-08	2025-01-08
High pass filter	Wainwright Instruments GmbH	WHNX6-5840-8000-26500-60CC	4	2024-01-08	2025-01-08
RF Cable	Radiall	1800920922000KE	CON-R008	2024-07-26	2025-01-26

-End-