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QUESTION 1

Given: ABC Company recorded the 2.4 GHz band with a spectrum analyzer prior to installing their ERP WLAN. Image-A is how the band appeared prior to the WLAN installation. Image-B is how the band appears now, and all channels on their WLAN have ceased to function.
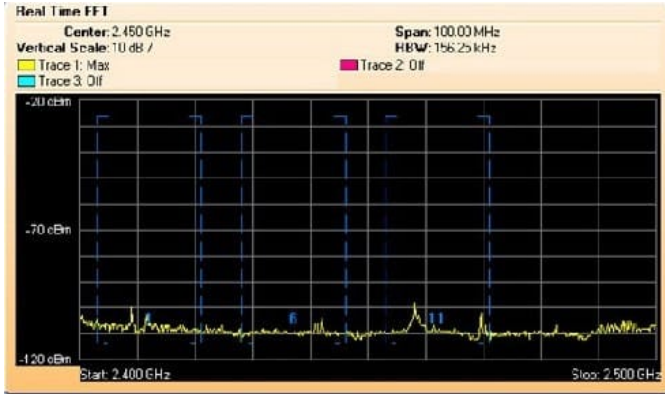

Image A

Image B

What is the best explanation as to why their WLAN is no longer functioning properly?

A. A wideband RF power source is corrupting all IEEE 802.11 transmissions.

B. A new microwave oven was installed in the cafeteria.

C. A malfunctioning IEEE 802.11 OFDM radio card is transmitting continuously.

D. A manual site survey tool is actively testing the throughput of their WLAN.

E. A Terminal Doppler Weather Radar (TDWR) is causing a DFS response across the entire band.

Correct Answer: A

QUESTION 2

What types of wireless systems are illustrated?
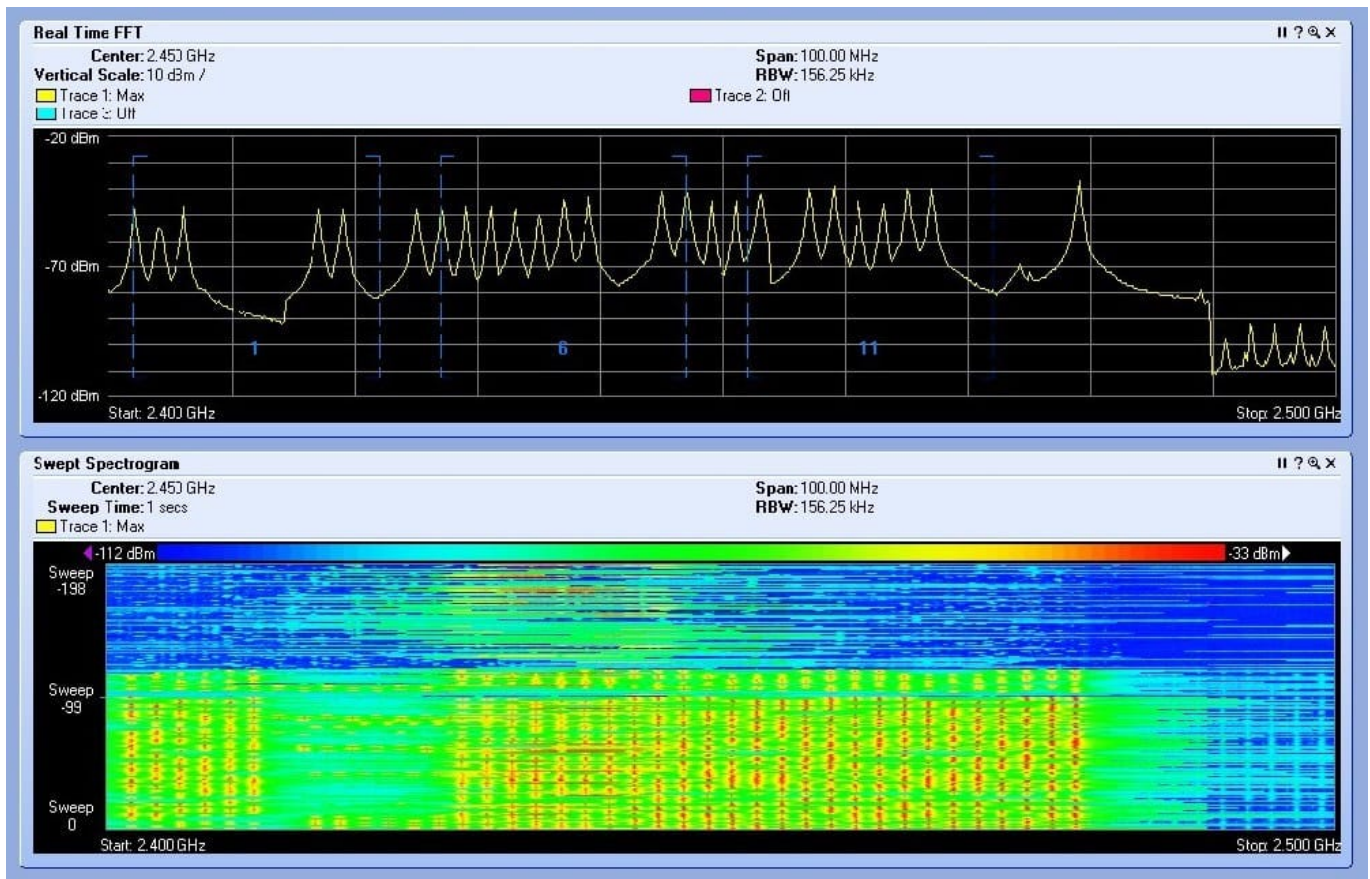
A. An ERP IEEE 802.11 system using channel 6 and Bluetooth v1.2 discovery

B. A Bluetooth v2.0 file transfer and a 40 MHz HT AP on channels 11, 7 (primary, secondary)

C. A 2.4 GHz cordless phone on channel 14 and a wireless RFID reader

D. An 802.11 HR/DSSS system using channel 2 and a digital FHSS phone

Correct Answer: A

QUESTION 3

In the frame decode shown, there are two sets of supported data rates. 1, 2, 5.5, and 11 Mbps are all shown as "basic" data rates, and 6, 9, 12, 18, 24, 36, 48, and 54 Mbps are shown simply as supported data rates.

No	M	Time	Delta	CH	Length	S	→	Source	Destination	BSSID	Summary
1	☑	5/27 13:58:23.000000	0.000000	8	324	-79	1	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon
2	☐	5/27 13:58:23.102381	0.102381	9	324	-74	1	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon
3	☐	5/27 13:58:23.204795	0.204795	9	324	-74	1	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon
4	☐	5/27 13:58:23.307191	0.307191	9	324	-71	1	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon
5	☐	5/27 13:58:23.511987	0.511987	10	324	-81	1	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon
6	☐	5/27 13:58:23.584619	0.584619	10	218	-35	2	Ruckus:01:90:B9	FF:FF:FF:FF:FF:FF	Ruckus:01:90:B9	802.11 beacon
7	☐	5/27 13:58:23.614398	0.614398	10	324	-82	1	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon
8	☐	5/27 13:58:23.789402	0.789402	11	218	-37	2	Ruckus:01:90:B9	FF:FF:FF:FF:FF:FF	Ruckus:01:90:B9	802.11 beacon
9	☐	5/27 13:58:23.891814	0.891814	11	218	-37	2	Ruckus:01:90:B9	FF:FF:FF:FF:FF:FF	Ruckus:01:90:B9	802.11 beacon
10	☐	5/27 13:58:23.994217	0.994217	11	218	-37	2	Ruckus:01:90:B9	FF:FF:FF:FF:FF:FF	Ruckus:01:90:B9	802.11 beacon
11	☐	5/27 13:58:24.023987	1.023987	11	324	-79	1	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon
12	☐	5/27 13:58:24.096606	1.096606	12	218	-38	2	Ruckus:01:90:B9	FF:FF:FF:FF:FF:FF	Ruckus:01:90:B9	802.11 beacon
13	☐	5/27 13:58:24.331211	1.331211	12	324	-81	1	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon
14	☐	5/27 13:58:25.048014	2.048014	1	324	-28	1	Belkin:20:1C:C9	FF:FF:FF:FF:FF:FF	Belkin:20:1C:C9	802.11 beacon

```
⊞ info : SSID (0)
⊟ info : supported rates (1)
    ··· length : 4
    ··· rate : 1.0 mbps basic
    ··· rate : 2.0 mbps basic
    ··· rate : 5.5 mbps basic
    ··· rate : 11.0 mbps basic
⊞ info : DS param set (3)
⊞ info : TIM (5)
⊞ info : ERP information (42)
⊟ info : extended supported rates (50)
    ··· length : 8
    ··· rate : 6.0 mbps
    ··· rate : 9.0 mbps
    ··· rate : 12.0 mbps
    ··· rate : 18.0 mbps
    ··· rate : 24.0 mbps
    ··· rate : 36.0 mbps
    ··· rate : 48.0 mbps
    ··· rate : 54.0 mbps
```

What is true of "basic" data rates in this context?

A. The AP requires all client stations to support Basic rates in order to associate to its BSS.

B. The highest data rate set to Basic is automatically used to send broadcast traffic such as Beacon frames.

C. Basic rates are optional data rates for the BSS, often used for assuring connectivity for legacy stations.

D. Basic rates are only used for multicast traffic, and do not affect unicast traffic.

E. Basic rates are defined in an AP\\'s service set to specify mandatory data rates for all retry frames.

Correct Answer: A

QUESTION 4

Which statements are true regarding Beacons from an AP in an HT infrastructure BSS that is configured with multiple WLAN profiles? (Choose 3)

A. Beacons can be disabled for security purposes.

B. The BSSID and Source Address are always the same.

C. The Destination Address is always FF:FF:FF:FF:FF:FF.

D. The Receiver address and the BSSID are always the same.

E. When the SSID is "hidden," the ESS subfield of the Capability Information field distinguishes one BSS from another.

F. All Beacons generated by APs contain a TIM information element.

G. The Beacon interval must be the same for all WLANs (SSIDs) supported by a single AP

Correct Answer: BCF

QUESTION 5

The IEEE 802.11 Dynamic Frequency Selection (DFS) service is capable of performing what functions? (Choose 2)

A. Establishing an interference baseline on all 2.4 GHz channels

B. Using modulation switching techniques to avoid interfering with radar systems

C. Testing channels for radar before using a channel and while operating in a channel

D. Suspending operations on a channel with high IEEE 802.11 co-channel interference

E. Requesting and reporting of measurements in the current and other channels

Correct Answer: CE

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