CS2650 MP3 Frame Header Worksheet

Below are debug hex displays of MP3 frame headers.  
Using the data shown and the MP3 Frame Header Decoding Key,   
answer the following questions about each of the MP3 frame headers

1.

|  |  |
| --- | --- |
| MPEG Audio Version | Version 1 |
| Layer Description | Layer III |
| Protection Status | Not Protected |
| Bitrate | 128 Kbps |
| Sampling Rate | 44,100 Hz |
| Channel Mode | Joint Stereo |
| Copyright Status | Not Copyrighted |
| Copy Status | Original Media |
| Emphasis | None |

13CB:0110 FF FB 92 64 EE 07 B3 30 - 35 C9 41 E6 1A E2 5C 0C 68 F0  
13CB:0120 0C 63 6E 0D 29 29 24 A4 - 98 CB C9 6E B1 63 D4 31 8D B8  
13CB:0130 64 4E 31 CA C0 F0 1C 38 - C1 9F 93 87 7F FB 07 E9 DB 1F 

2.

|  |  |
| --- | --- |
| MPEG Audio Version | Version 2 |
| Layer Description | Layer 3 |
| Protection Status | Protected |
| Bitrate | 32 Kbps |
| Sampling Rate | 22,050 Hz |
| Channel Mode | Single Channel (Mono) |
| Copyright Status | Not Copyrighted |
| Copy Status | Copy of original media |
| Emphasis | None |

13CB:0110 FF F2 40 C0 C1 03 00 13 - DA E2 70 01 92 50 01 F0 2C 40  
13CB:0120 75 DE 04 90 1B 3F E2 09 - 95 FF 11 61 76 21 FF 00 40 14  
13CB:0130 04 27 F8 8B 27 88 BF FC - 45 8B 60 D8 22 09 3F FF 3D 0C

3. 0000

|  |  |
| --- | --- |
| MPEG Audio Version | Version 1 |
| Layer Description | Layer III |
| Protection Status | Not Protected |
| Bitrate | 160 Kbps |
| Sampling Rate | 44,100 Hz |
| Channel Mode | Joint Stereo |
| Copyright Status | No Copyright |
| Copy Status | Copy of original |
| Emphasis | None |

13CB:0110 FF FB A0 40 00 0C 88 05-F9 8A 08 00 02 16 AA A7  
13CB:0120 FC 4D 0C 36 F5 17 02 04-0E 07 C8 40 71 A0 4C 6A  
13CB:0130 AE 3E 18 3F CB 94 1C 34-2C 70 91 3E DE 44 E7 F9