

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU040519\
 Data File : VU030728.D
 Acq On : 05 Apr 2019 09:09
 Operator : JC/SP
 Sample : K2249-09
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YE2

Quant Time: Apr 05 23:44:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM040519WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Apr 05 23:39:17 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	469601	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	459598	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	215418	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	214557	51.18	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	102.36%
7) Chloroethane-d5	1.68	69	165508	52.02	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	104.04%
11) 1,1-Dichloroethene-d2	2.27	63	293251	38.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	77.36%
21) 2-Butanone-d5	4.17	46	348522	104.90	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	104.90%
24) Chloroform-d	4.64	84	291171	45.47	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.94%
26) 1,2-Dichloroethane-d4	5.31	65	217962	49.88	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	99.76%
32) Benzene-d6	5.34	84	662434	49.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.74%
36) 1,2-Dichloropropane-d6	6.32	67	227962	49.58	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	99.16%
41) Toluene-d8	7.56	98	575713	48.41	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.82%
43) trans-1,3-Dichloropropene-	7.85	79	93028	44.37	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.74%
47) 2-Hexanone-d5	8.31	63	212184	100.97	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.97%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	308279	49.70	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.40%
64) 1,2-Dichlorobenzene-d4	11.85	152	209023	49.34	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	98.68%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.42	50	7785	1.459	ug/L	93
5) Vinyl chloride	1.40	62	172215	33.344	ug/L	95
8) Chloroethane	1.69	64	893661	303.368	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	2622	0.780	ug/L #	20
12) 1,1-Dichloroethene	2.28	96	21074	6.492	ug/L #	1
13) Acetone	2.32	43	13645	4.014	ug/L	97
17) trans-1,2-Dichloroethene	2.98	96	6727	1.952	ug/L	95
19) 1,1-Dichloroethane	3.44	63	4576446	643.400	ug/L	98
20) cis-1,2-Dichloroethene	4.22	96	1828940	480.579	ug/L	98
25) Chloroform	4.67	83	29901	4.183	ug/L	95
30) 1,1,1-Trichloroethane	4.91	97	283045	50.534	ug/L	98
31) Carbon tetrachloride	4.91	117	36186	7.497	ug/L	99
34) Trichloroethene	6.18	95	12954	3.512	ug/L	96
35) Methylcyclohexane	6.41	83	7629	1.340	ug/L #	85
40) 4-Methyl-2-pentanone	7.47	43	3585	0.523	ug/L #	79
42) Toluene	7.63	91	190274	12.394	ug/L	99
44) trans-1,3-Dichloropropene	7.85	75	3043	0.570	ug/L	86

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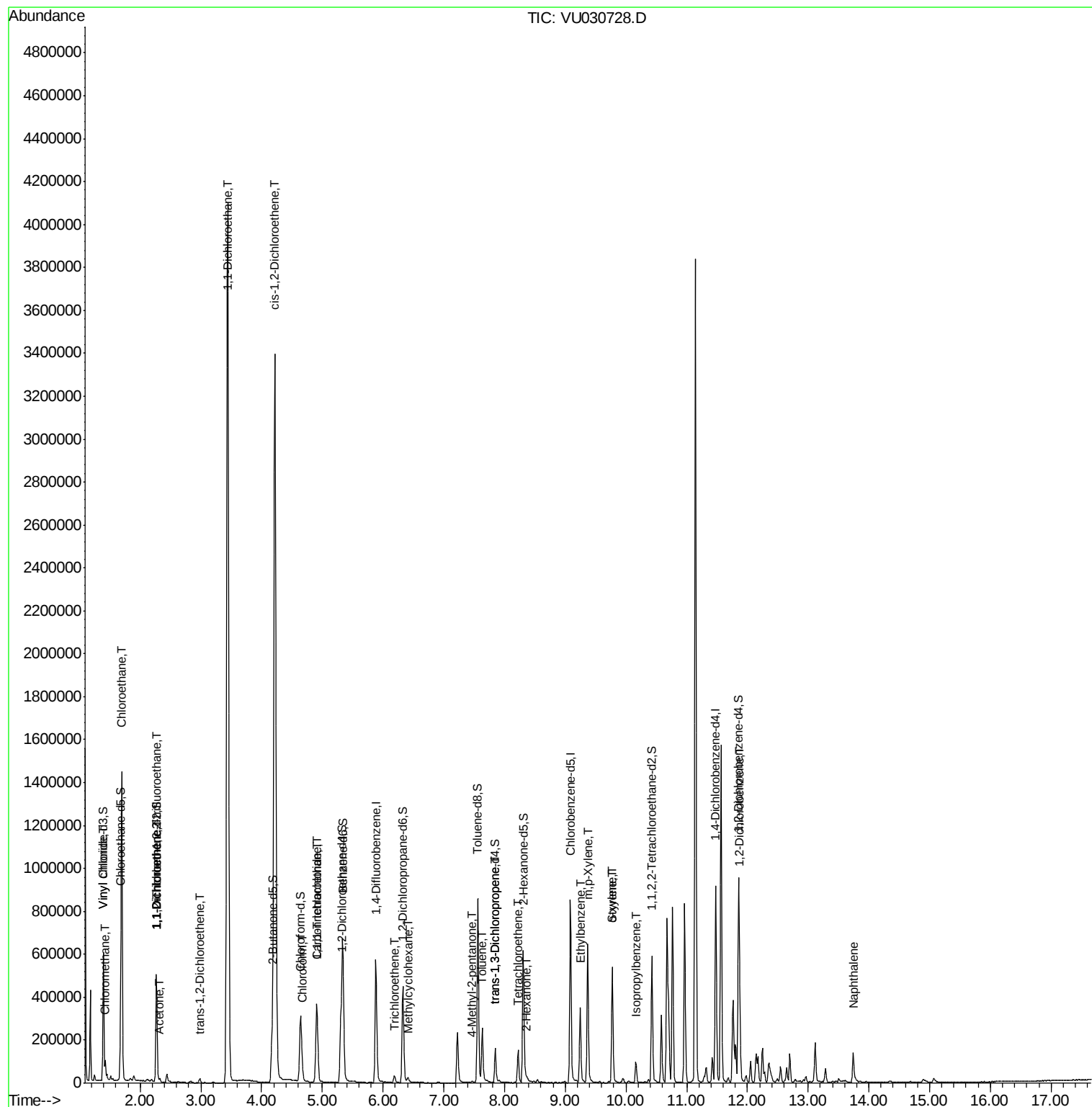
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) Tetrachloroethene	8.22	164	35874	13.376	ug/L	97
48) 2-Hexanone	8.37	43	8723	1.633	ug/L #	39
52) Ethylbenzene	9.25	91	247349	14.781	ug/L	97
53) m,p-Xylene	9.37	106	177084	30.341	ug/L	100
54) o-xylene	9.77	106	136533	23.518	ug/L	97
55) Styrene	9.77	104	8307	0.834	ug/L #	1
56) Isopropylbenzene	10.16	105	62225	4.071	ug/L	98
65) 1,2-Dichlorobenzene	11.87	146	19303	2.826	ug/L	97
69) Naphthalene	13.74	128	129046	9.410	ug/L	99

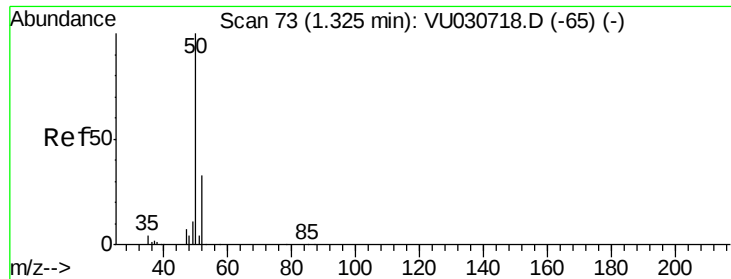
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 1.459 ug/L

RT: 1.42 min Scan# 104

Delta R.T. 0.10 min

Lab File: VU030728.D

Acq: 05 Apr 2019 09:09

Instrument :

MSVOA_U

ClientSampleId :

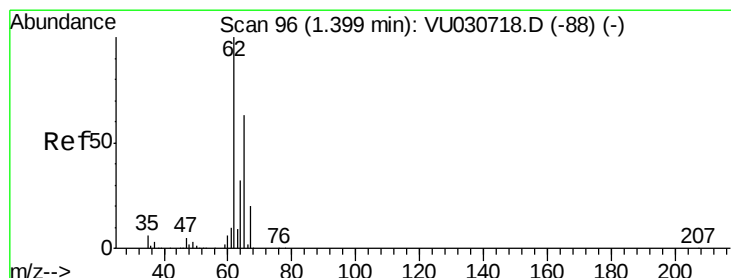
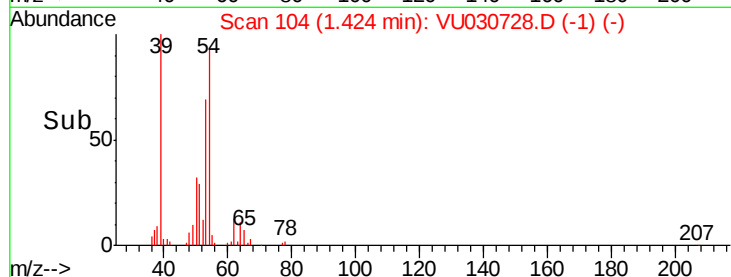
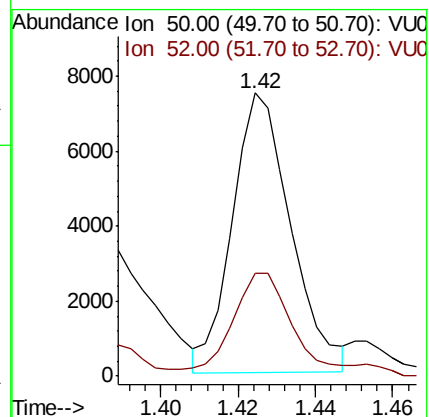
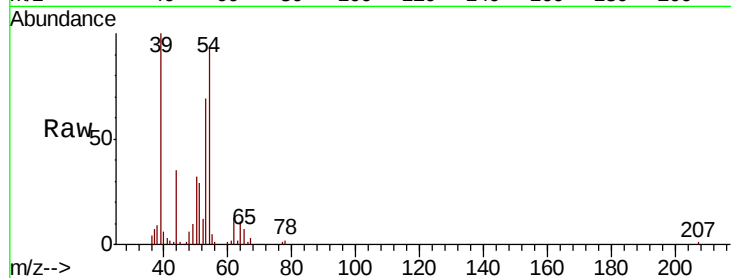
E3YE2

Tot Ion: 50 Resp: 7785

Ion Ratio Lower Upper

50 100

52 36.4 22.7 42.1



#5

Vinyl chloride

Concen: 33.344 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU030728.D

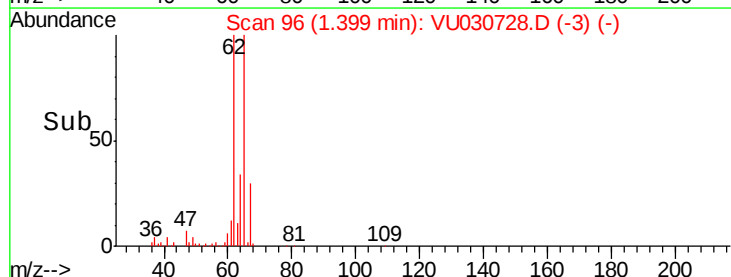
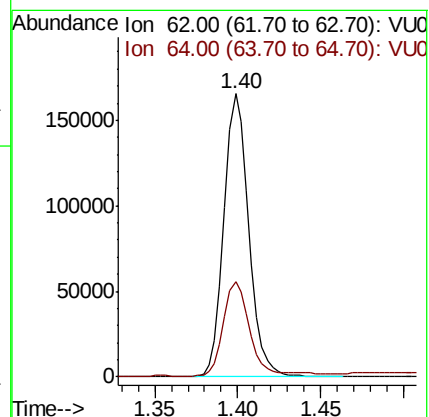
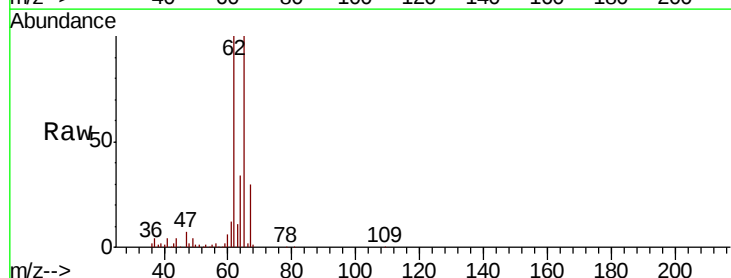
Acq: 05 Apr 2019 09:09

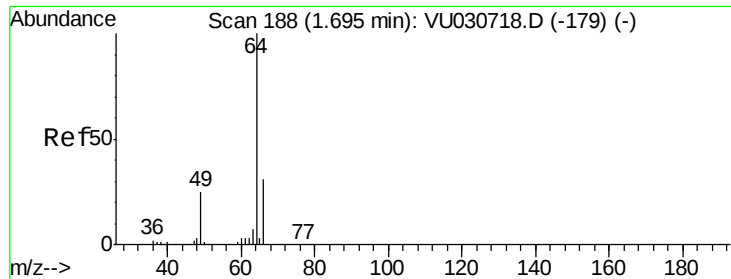
Tgt Ion: 62 Resp: 172215

Ion Ratio Lower Upper

62 100

64 33.7 21.5 39.9

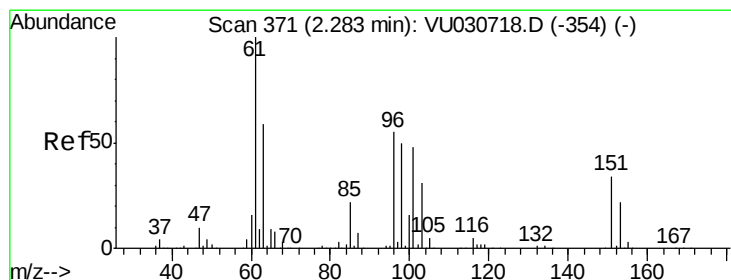
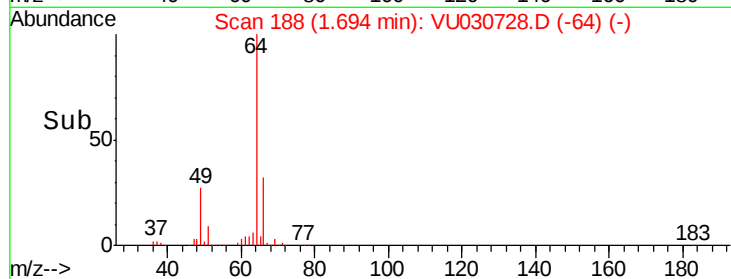
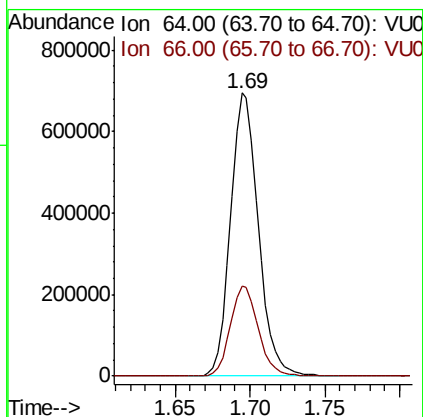
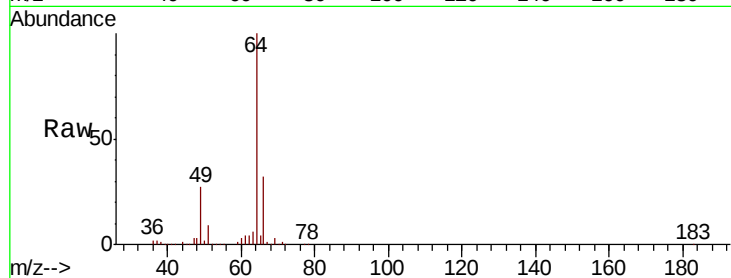




#8
 Chloroethane
 Concen: 303.368 ug/L
 RT: 1.69 min Scan# 188
 Delta R.T. -0.00 min
 Lab File: VU030728.D
 Acq: 05 Apr 2019 09:09

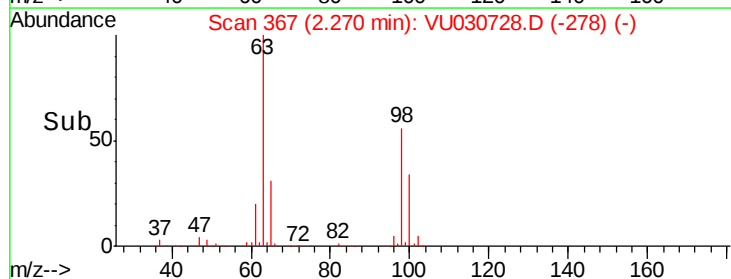
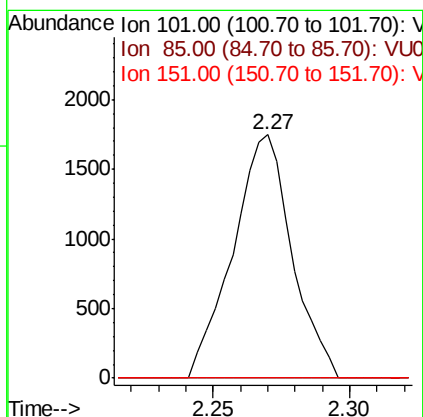
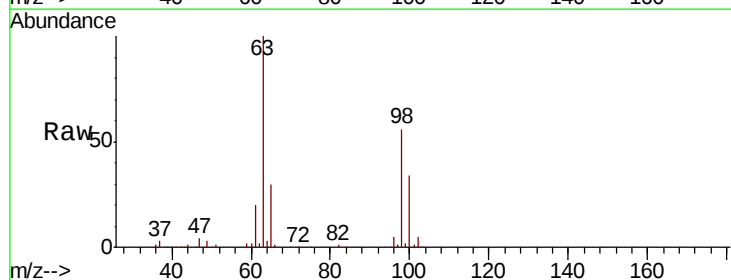
Instrument :
 MSVOA_U
 ClientSampleId :
 E3YE2

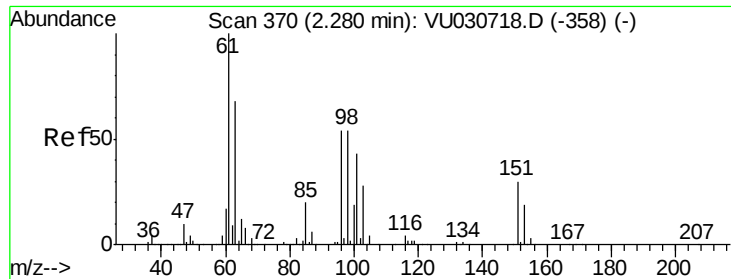
Tot Ion: 64 Resp: 893661
 Ion Ratio Lower Upper
 64 100
 66 32.0 22.4 41.6



#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.780 ug/L
 RT: 2.27 min Scan# 367
 Delta R.T. -0.01 min
 Lab File: VU030728.D
 Acq: 05 Apr 2019 09:09

Tgt Ion:101 Resp: 2622
 Ion Ratio Lower Upper
 101 100
 85 0.0 36.8 55.2#
 151 0.0 57.4 86.0#





#12

1,1-Dichloroethene

Concen: 6.492 ug/L

RT: 2.28 min Scan# 370

Delta R.T. -0.00 min

Lab File: VU030728.D

Acq: 05 Apr 2019 09:09

Instrument :

MSVOA_U

ClientSampleId :

E3YE2

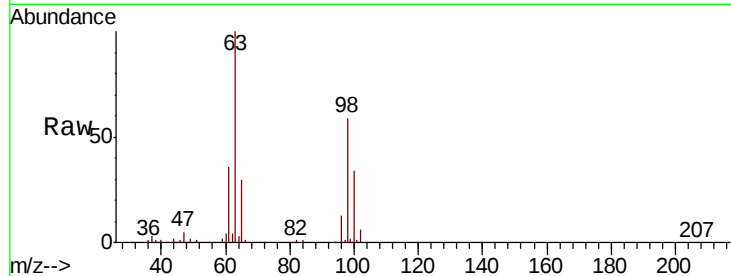
Tot Ion: 96 Resp: 21074

Ion Ratio Lower Upper

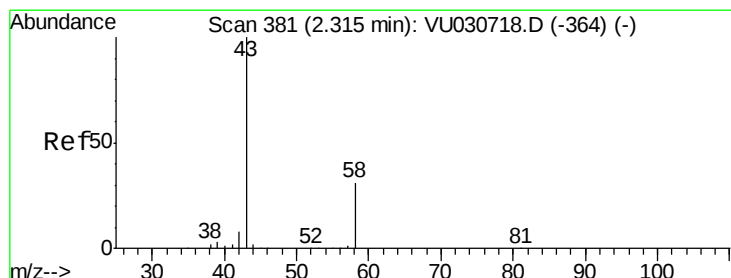
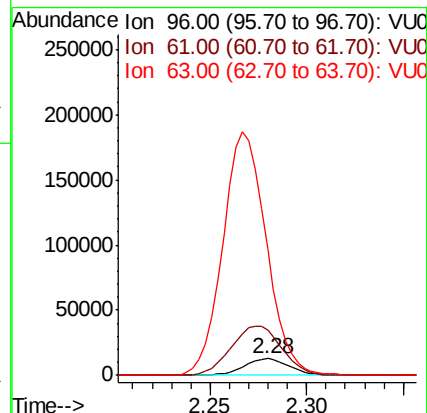
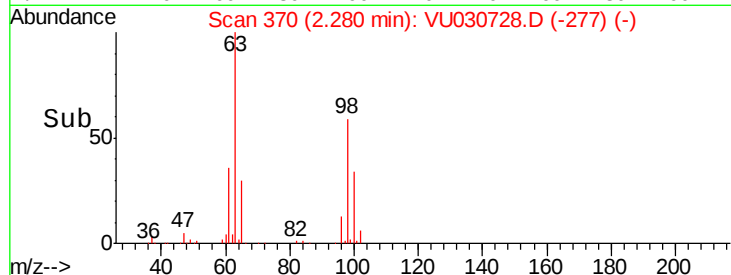
96 100

61 275.3 132.0 245.2#

63 761.7 90.9 168.9#



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 63.00 (62.70 to 63.70): VU0



#13

Acetone

Concen: 4.014 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU030728.D

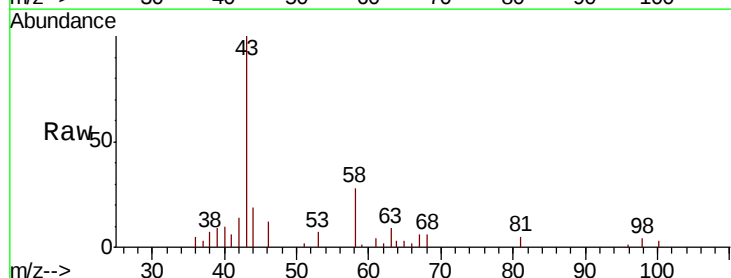
Acq: 05 Apr 2019 09:09

Tgt Ion: 43 Resp: 13645

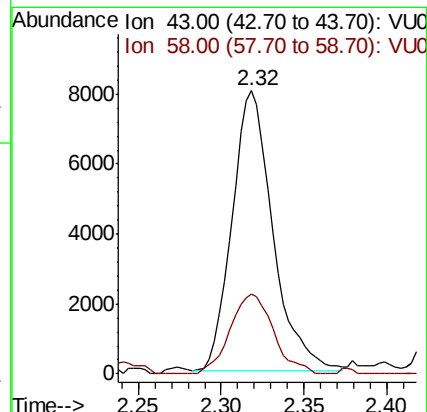
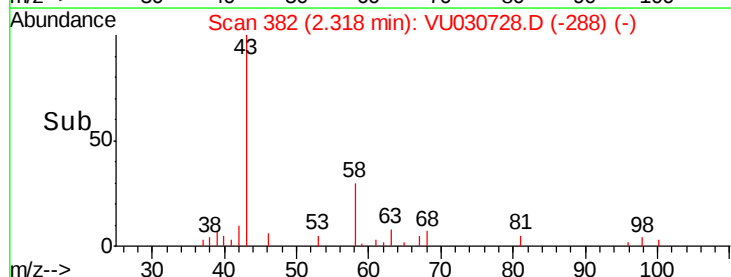
Ion Ratio Lower Upper

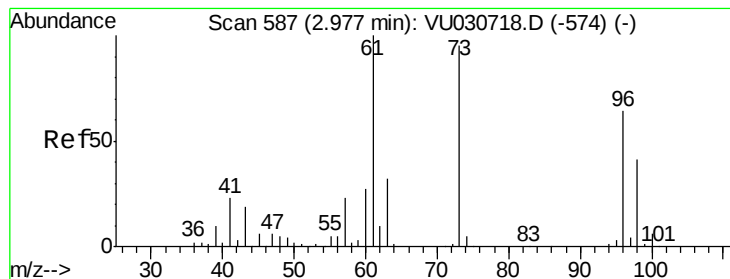
43 100

58 30.2 0.0 64.0



Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0





#17

trans-1,2-Dichloroethene

Concen: 1.952 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU030728.D

Acq: 05 Apr 2019 09:09

Instrument :

MSVOA_U

ClientSampleId :

E3YE2

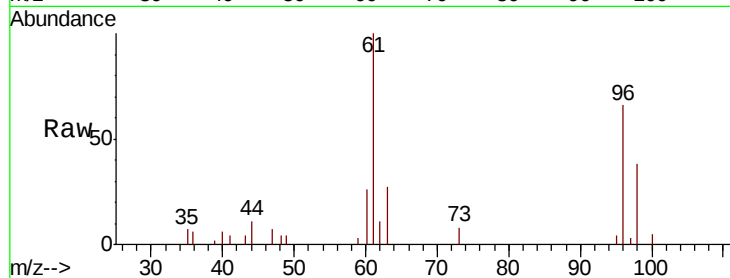
Tot Ion: 96 Resp: 6727

Ion Ratio Lower Upper

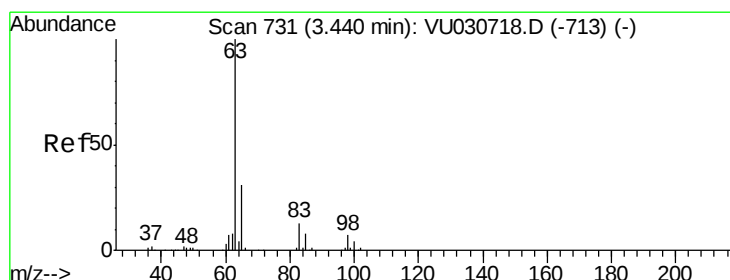
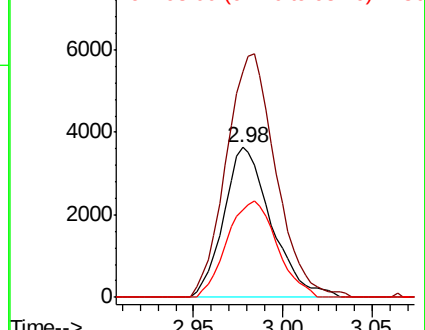
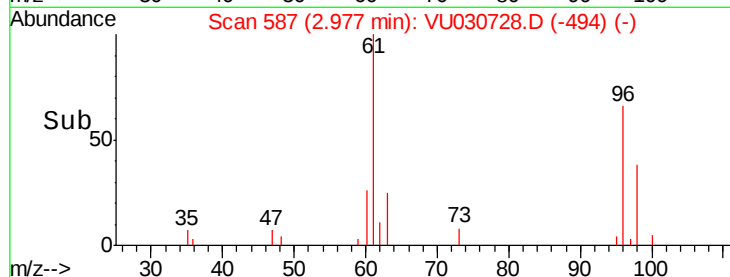
96 100

61 150.6 109.5 203.3

98 57.9 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU030728.D (-494) (-)



#19

1,1-Dichloroethane

Concen: 643.400 ug/L

RT: 3.44 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU030728.D

Acq: 05 Apr 2019 09:09

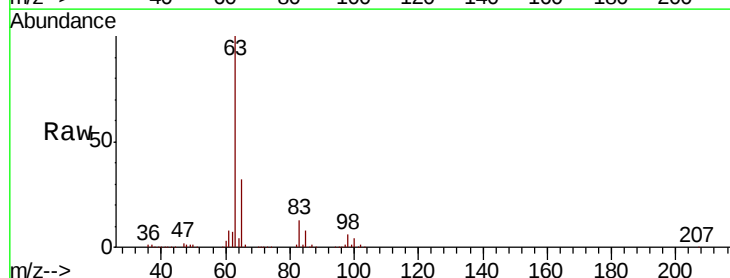
Tgt Ion: 63 Resp: 4576446

Ion Ratio Lower Upper

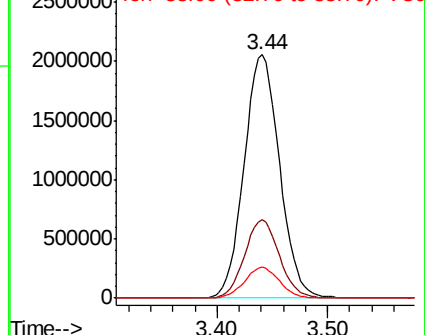
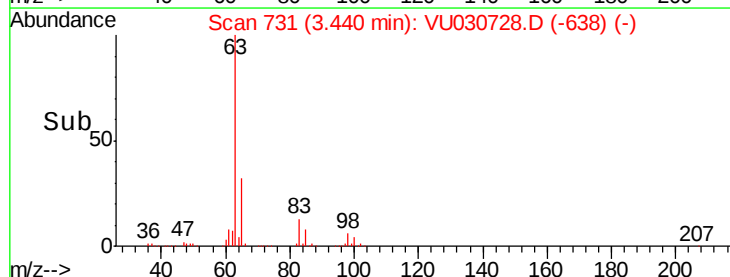
63 100

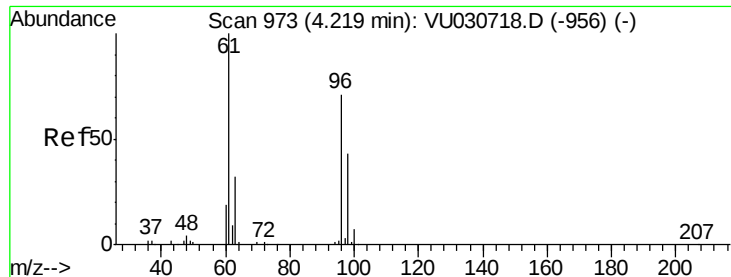
65 32.2 21.4 39.8

83 12.6 8.5 15.7



Abundance Ion 63.00 (62.70 to 63.70): VU030728.D (-638) (-)

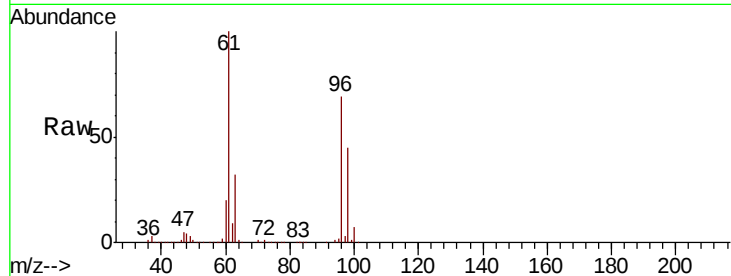




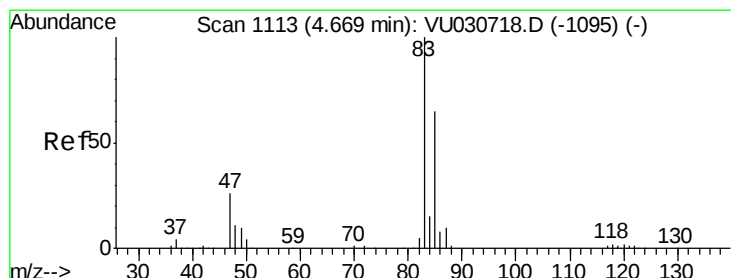
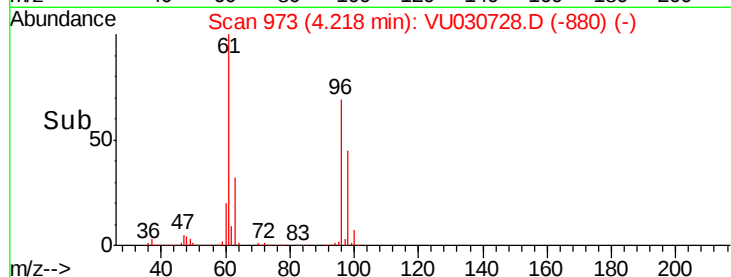
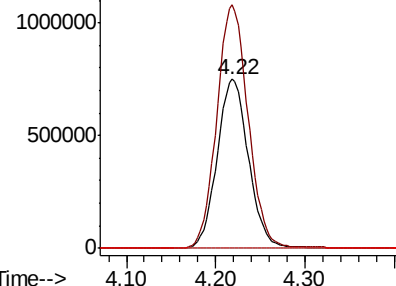
#20
 cis-1,2-Dichloroethene
 Concen: 480.579 ug/L
 RT: 4.22 min Scan# 973
 Delta R.T. -0.00 min
 Lab File: VU030728.D
 Acq: 05 Apr 2019 09:09

Instrument :
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 E3YE2

Tot Ion: 96 Resp: 1828940
 Ion Ratio Lower Upper
 96 100
 61 144.0 102.9 191.1
 68 0.0 0.0 0.0

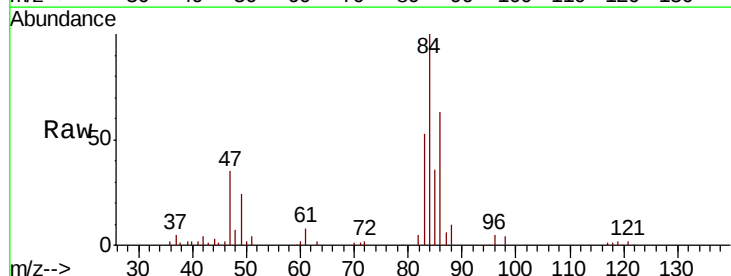


Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 68.00 (67.70 to 68.70): VU0

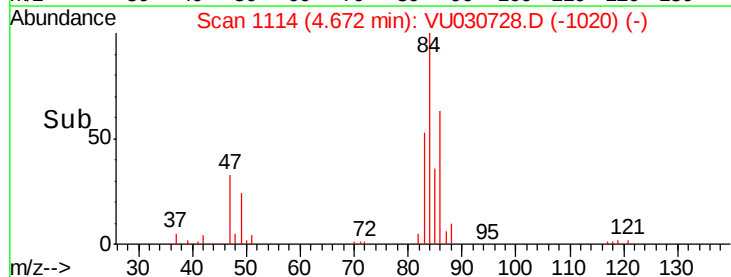
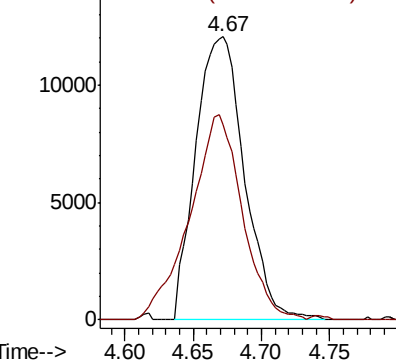


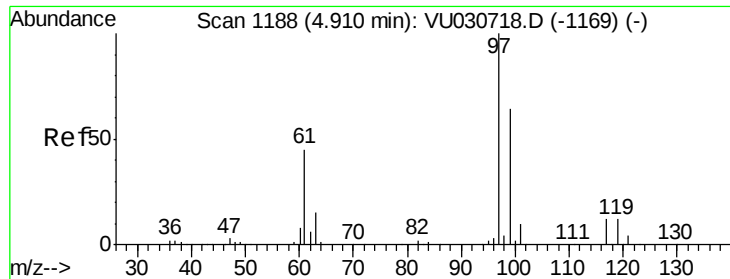
#25
 Chloroform
 Concen: 4.183 ug/L
 RT: 4.67 min Scan# 1114
 Delta R.T. 0.00 min
 Lab File: VU030728.D
 Acq: 05 Apr 2019 09:09

Tgt Ion: 83 Resp: 29901
 Ion Ratio Lower Upper
 83 100
 85 69.0 45.8 85.0



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

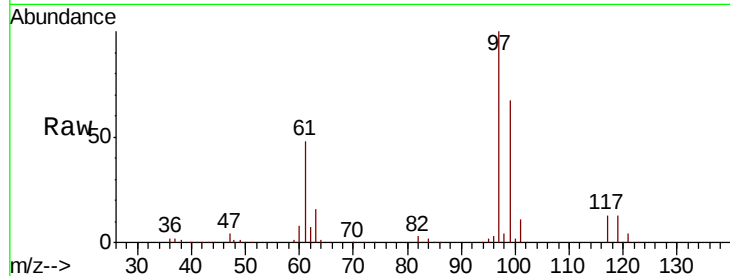




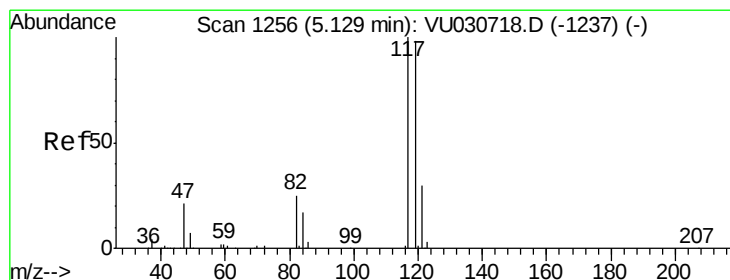
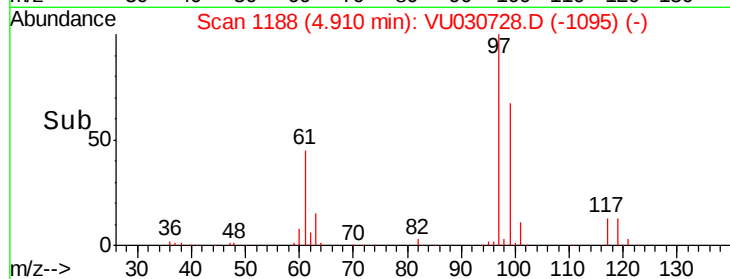
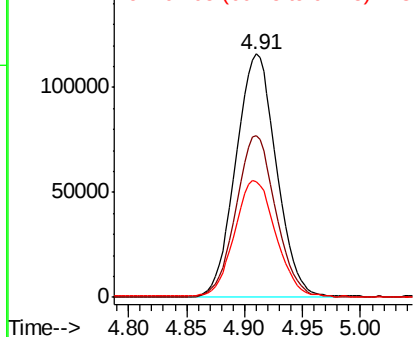
#30
 1,1,1-Trichloroethane
 Concen: 50.534 ug/L
 RT: 4.91 min Scan# 1188
 Delta R.T. -0.00 min
 Lab File: VU030728.D
 Acq: 05 Apr 2019 09:09

Instrument :
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 E3YE2

Tot Ion: 97 Resp: 283045
 Ion Ratio Lower Upper
 97 100
 99 65.3 51.4 77.2
 61 48.0 37.1 55.7

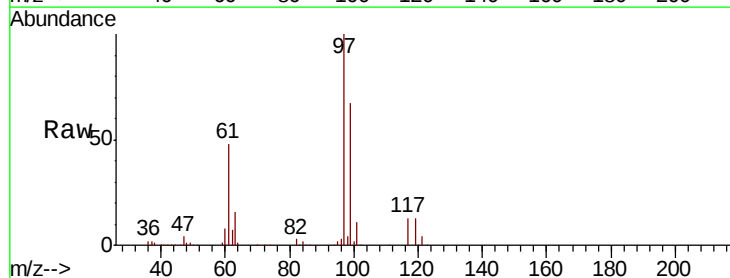


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0

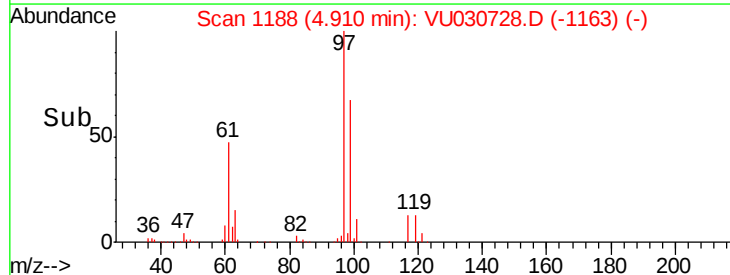
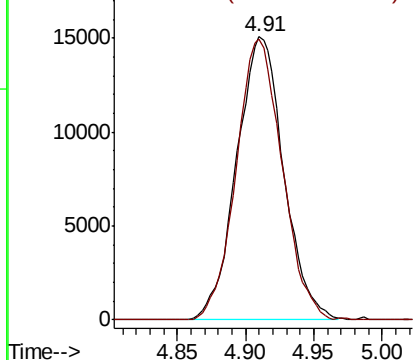


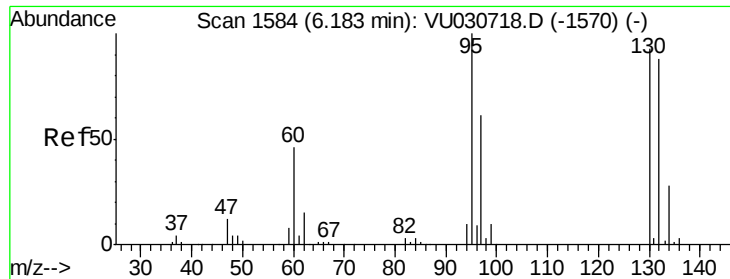
#31
 Carbon tetrachloride
 Concen: 7.497 ug/L
 RT: 4.91 min Scan# 1188
 Delta R.T. -0.22 min
 Lab File: VU030728.D
 Acq: 05 Apr 2019 09:09

Tgt Ion: 117 Resp: 36186
 Ion Ratio Lower Upper
 117 100
 119 96.3 76.2 114.2



Abundance Ion 117.00 (116.70 to 117.70): V
 Ion 119.00 (118.70 to 119.70): V





#34

Trichloroethene

Concen: 3.512 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. -0.00 min

Lab File: VU030728.D

Acq: 05 Apr 2019 09:09

Instrument :

MSVOA_U

ClientSampleId :

E3YE2

Tot Ion: 95 Resp: 12954

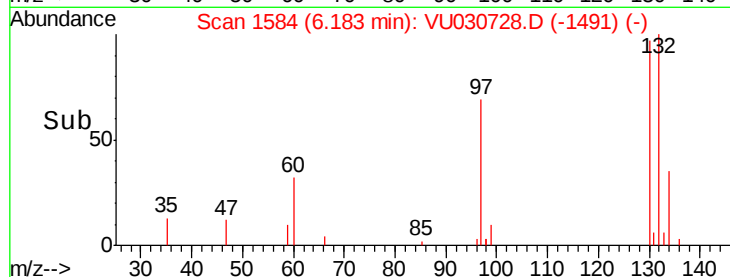
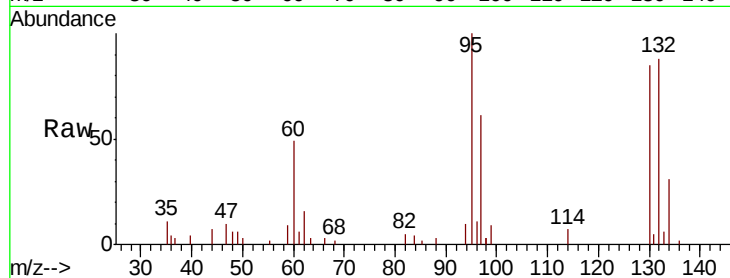
Ion Ratio Lower Upper

95 100

97 60.8 44.5 82.7

132 88.2 61.5 114.1

130 85.3 64.9 120.5

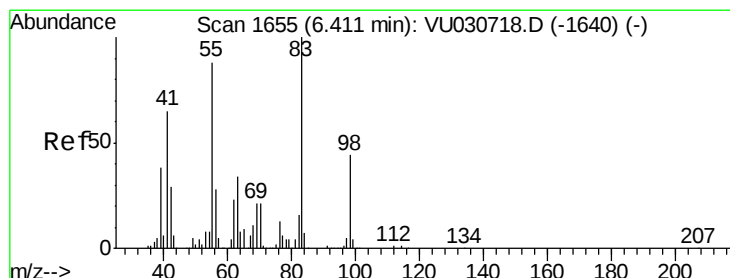
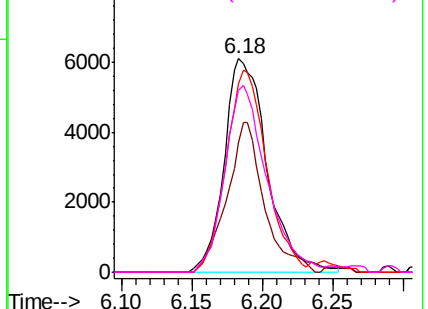


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 97.00 (96.70 to 97.70): VU0

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V



#35

Methylcyclohexane

Concen: 1.340 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU030728.D

Acq: 05 Apr 2019 09:09

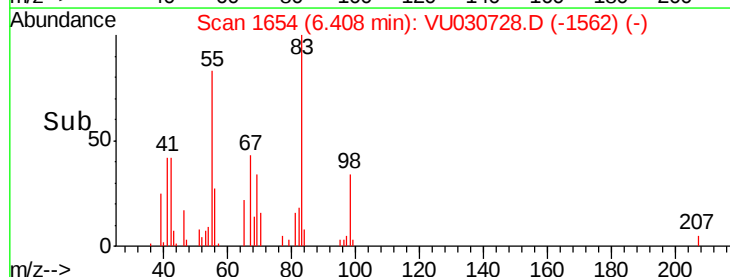
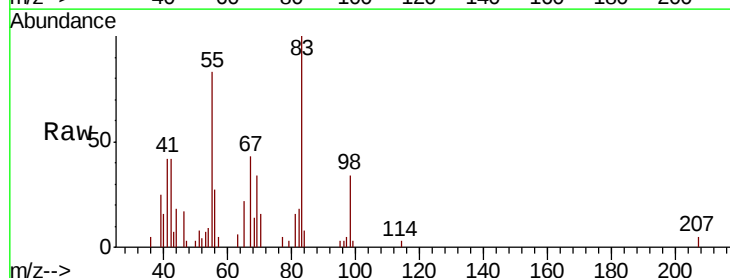
Tgt Ion: 83 Resp: 7629

Ion Ratio Lower Upper

83 100

55 88.9 71.6 107.4

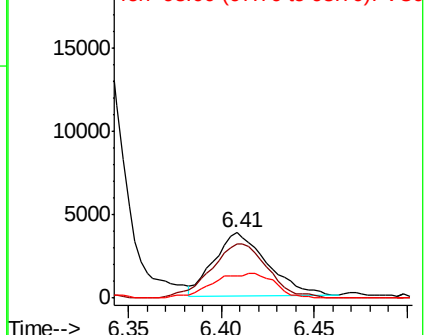
98 16.1 35.4 53.0#

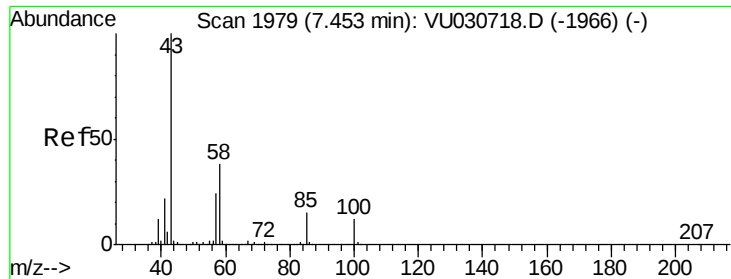


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0

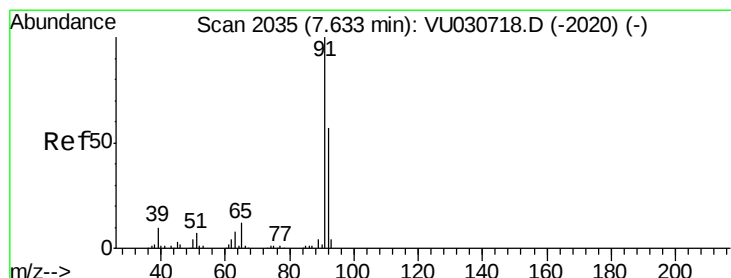
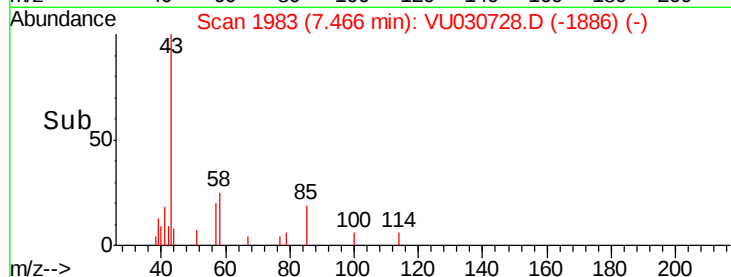
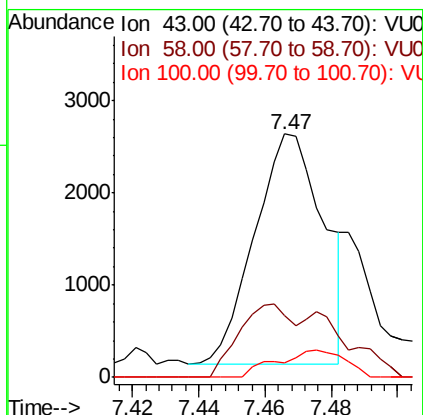
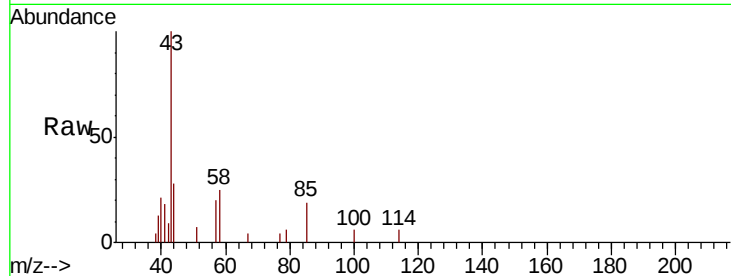




#40
4-Methyl-2-pentanone
Concen: 0.523 ug/L
RT: 7.47 min Scan# 1983
Delta R.T. 0.01 min
Lab File: VU030728.D
Acq: 05 Apr 2019 09:09

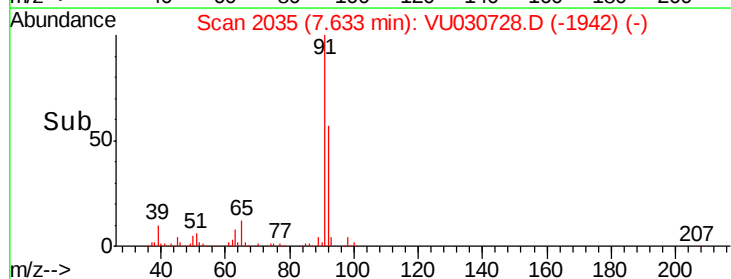
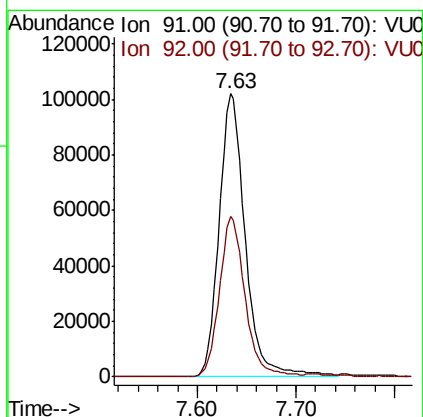
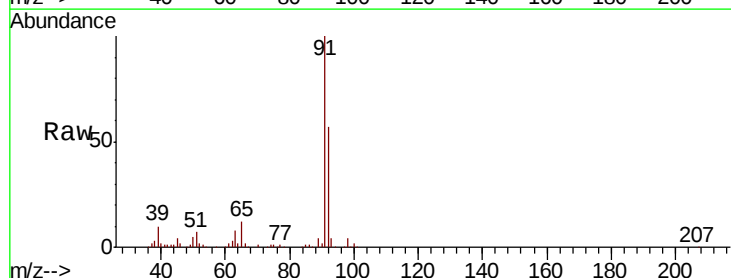
Instrument :
MSVOA_U
ClientSampleId :
E3YE2

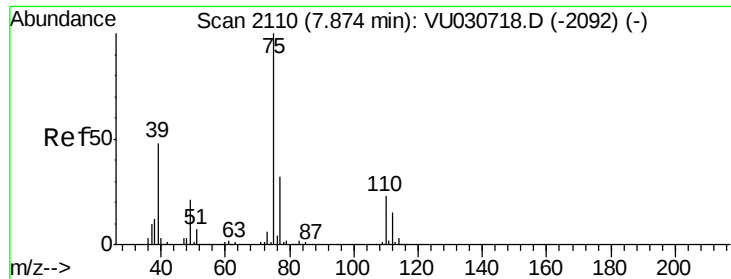
Tot Ion: 43 Resp: 3585
Ion Ratio Lower Upper
43 100
58 24.8 29.7 44.5#
100 3.3 9.8 14.6#



#42
Toluene
Concen: 12.394 ug/L
RT: 7.63 min Scan# 2035
Delta R.T. -0.00 min
Lab File: VU030728.D
Acq: 05 Apr 2019 09:09

Tgt Ion: 91 Resp: 190274
Ion Ratio Lower Upper
91 100
92 56.6 40.0 74.4





#44

trans-1,3-Dichloropropene

Concen: 0.570 ug/L

RT: 7.85 min Scan# 2102

Delta R.T. -0.03 min

Lab File: VU030728.D

Acq: 05 Apr 2019 09:09

Instrument :

MSVOA_U

ClientSampleId :

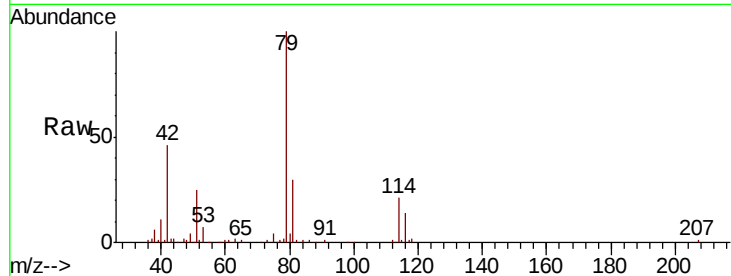
E3YE2

Tot Ion: 75 Resp: 3043

Ion Ratio Lower Upper

75 100

77 38.6 21.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VU030718.D (-2092) (-)

Ion 77.00 (76.70 to 77.70): VU030718.D (-2092) (-)

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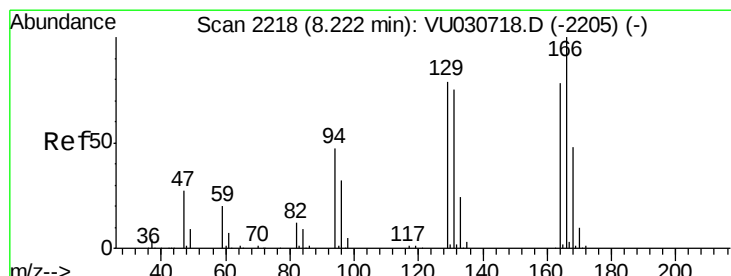
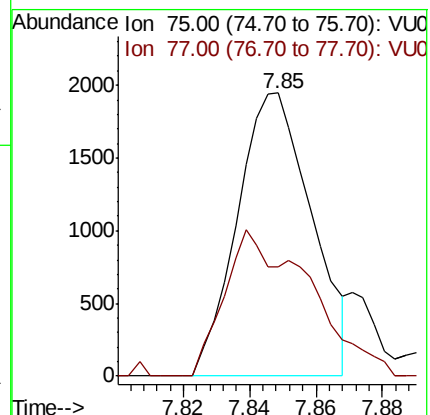
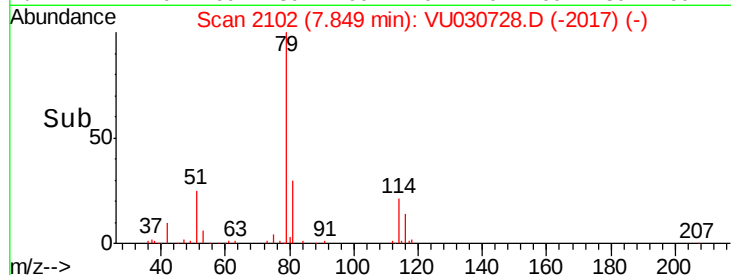
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#46

Tetrachloroethene

Concen: 13.376 ug/L

RT: 8.22 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VU030728.D

Acq: 05 Apr 2019 09:09

Tgt Ion:164 Resp: 35874

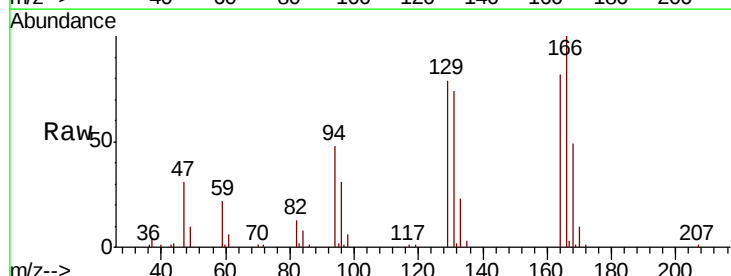
Ion Ratio Lower Upper

164 100

129 95.5 67.4 125.2

131 90.2 65.9 122.5

166 121.6 88.6 164.6



Abundance Ion 164.00 (163.70 to 164.70): VU030718.D (-2205) (-)

Ion 129.00 (128.70 to 129.70): VU030718.D (-2205) (-)

Ion 131.00 (130.70 to 131.70): VU030718.D (-2205) (-)

Ion 166.00 (165.70 to 166.70): VU030718.D (-2205) (-)

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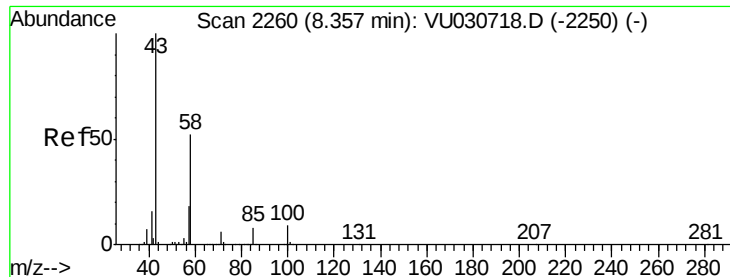
8.22

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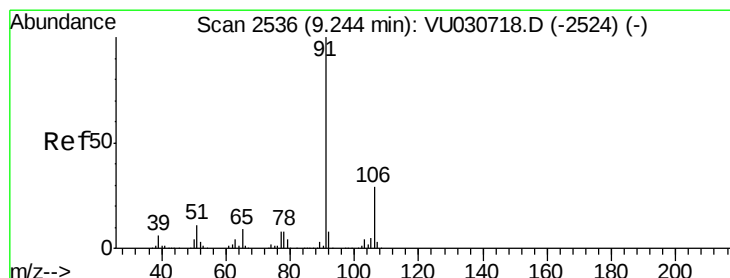
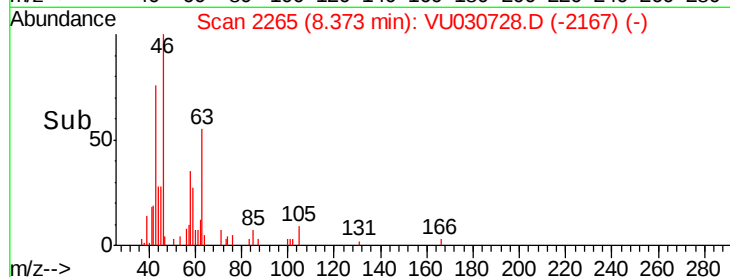
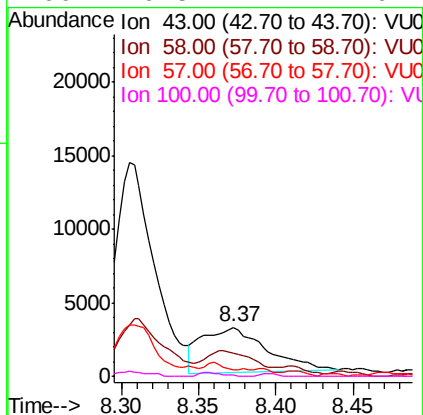
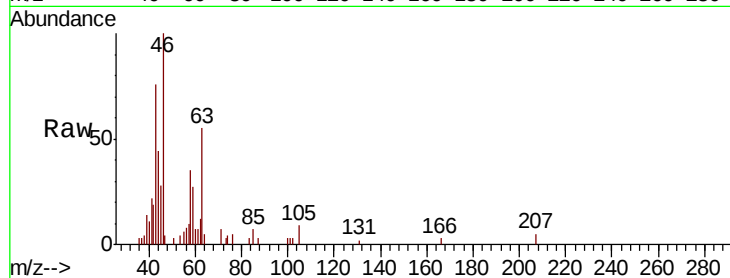
8.22



#48
2-Hexanone
Concen: 1.633 ug/L
RT: 8.37 min Scan# 2265
Delta R.T. 0.02 min
Lab File: VU030728.D
Acq: 05 Apr 2019 09:09

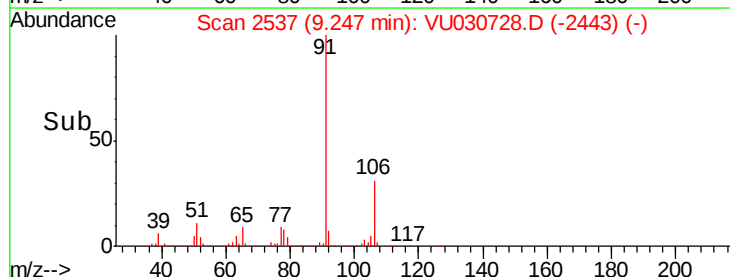
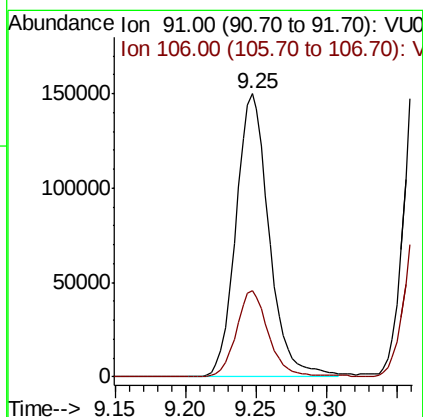
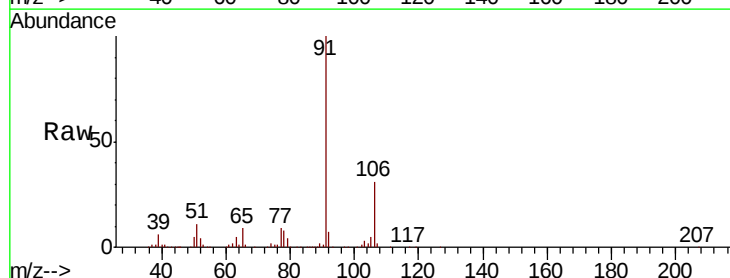
Instrument :
MSVOA_U
ClientSampleId :
E3YE2

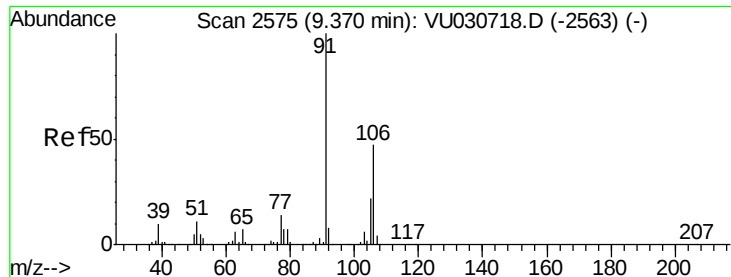
Tot Ion: 43 Resp: 8723
Ion Ratio Lower Upper
43 100
58 0.0 41.9 62.9#
57 0.0 14.3 21.5#
100 0.5 7.1 10.7#



#52
Ethylbenzene
Concen: 14.781 ug/L
RT: 9.25 min Scan# 2537
Delta R.T. 0.00 min
Lab File: VU030728.D
Acq: 05 Apr 2019 09:09

Tgt Ion: 91 Resp: 247349
Ion Ratio Lower Upper
91 100
106 30.5 20.4 37.8





#53

m,p-Xylene

Concen: 30.341 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU030728.D

Acq: 05 Apr 2019 09:09

Instrument :

MSVOA_U

ClientSampleId :

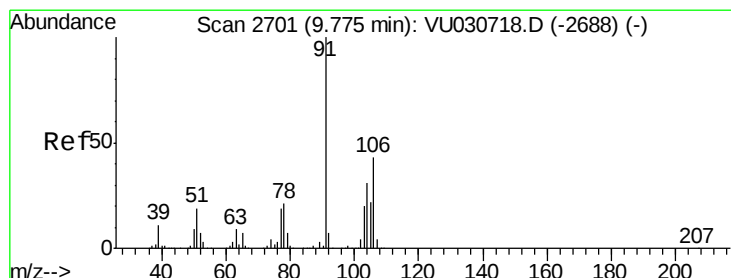
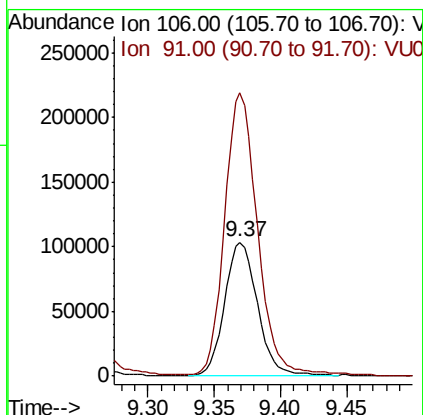
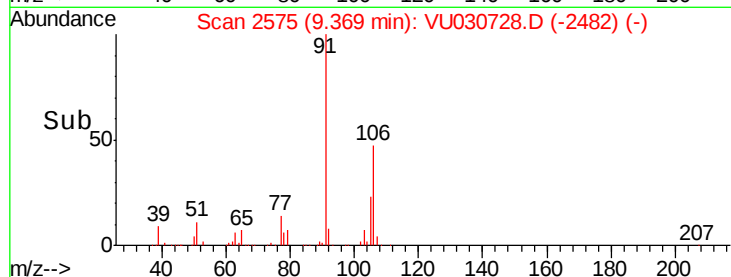
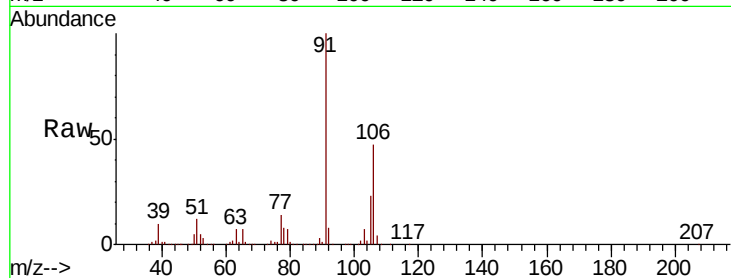
E3YE2

Tot Ion:106 Resp: 177084

Ion Ratio Lower Upper

106 100

91 210.9 148.0 274.8



#54

o-xylene

Concen: 23.518 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU030728.D

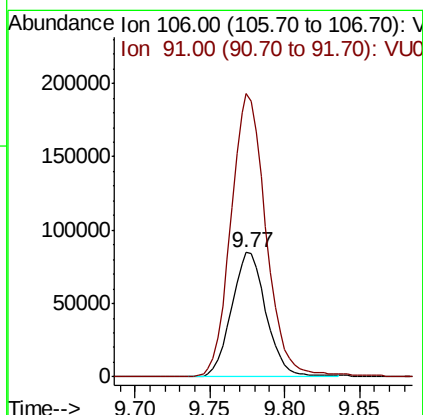
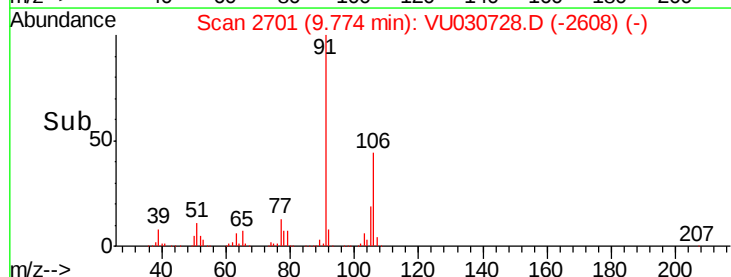
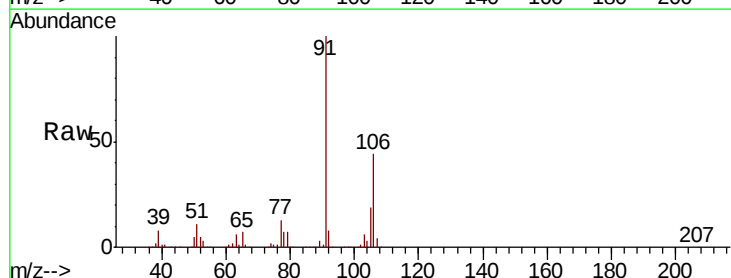
Acq: 05 Apr 2019 09:09

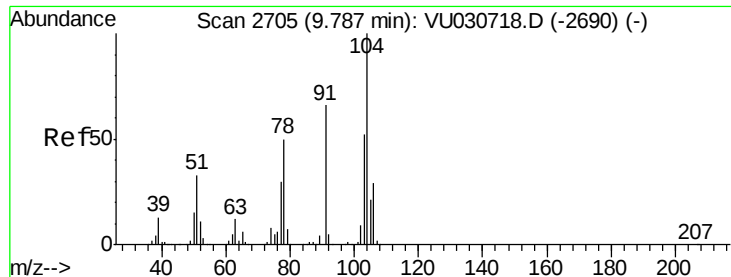
Tgt Ion:106 Resp: 136533

Ion Ratio Lower Upper

106 100

91 228.0 156.7 290.9





#55

Stvrene

Concen: 0.834 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.01 min

Lab File: VU030728.D

Acq: 05 Apr 2019 09:09

Instrument :

MSVOA_U

ClientSampled :

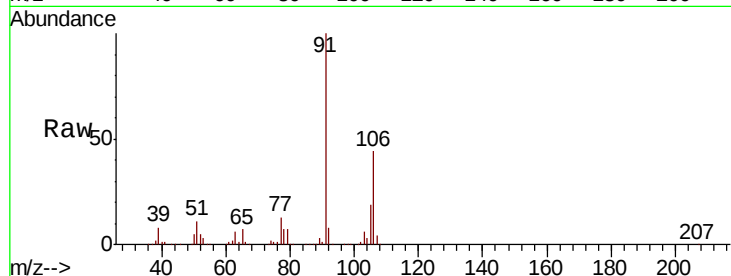
E3YE2

Tot Ion:104 Resp: 8307

Ion Ratio Lower Upper

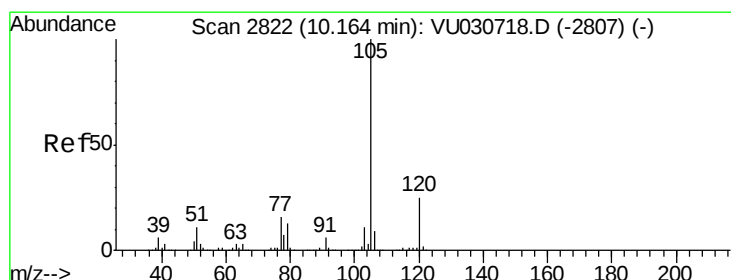
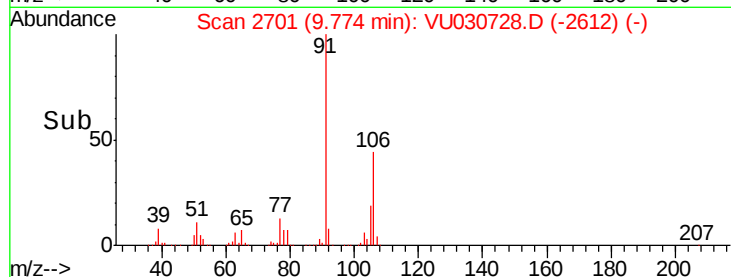
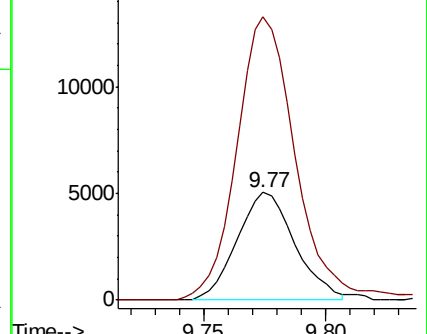
104 100

78 262.5 35.1 65.1#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0



#56

Isopropylbenzene

Concen: 4.071 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. -0.00 min

Lab File: VU030728.D

Acq: 05 Apr 2019 09:09

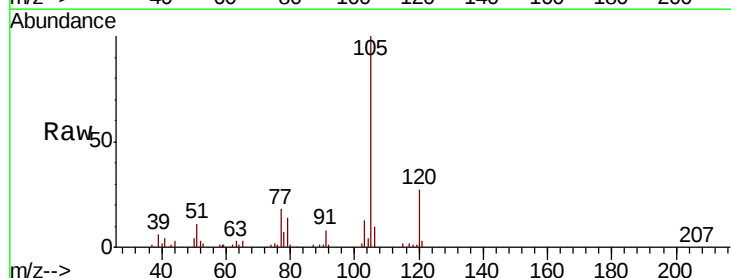
Tgt Ion:105 Resp: 62225

Ion Ratio Lower Upper

105 100

120 24.3 20.4 30.6

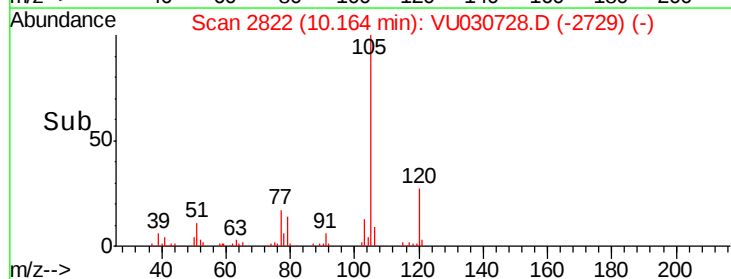
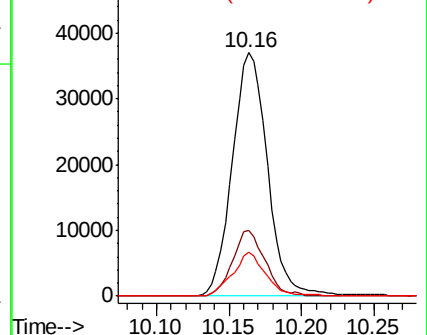
77 16.7 13.4 20.2

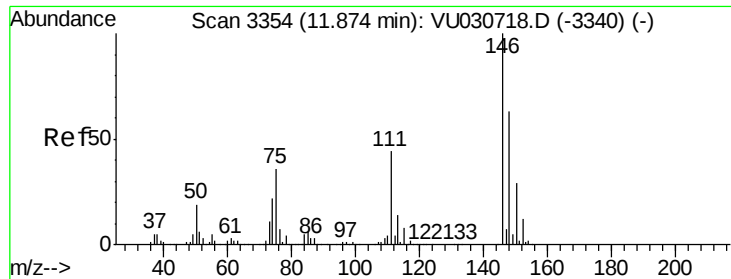


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VU0





#65

1,2-Dichlorobenzene

Concen: 2.826 ug/L

RT: 11.87 min Scan# 3354

Delta R.T. -0.00 min

Lab File: VU030728.D

Acq: 05 Apr 2019 09:09

Instrument :

MSVOA_U

ClientSampled :

E3YE2

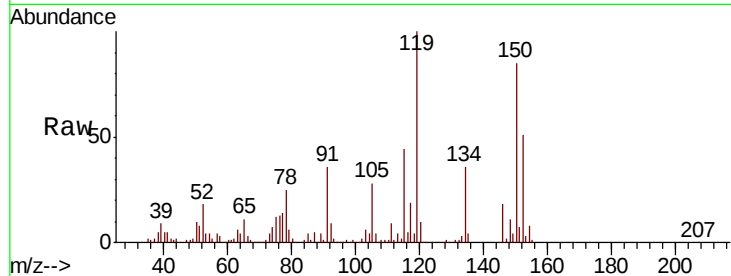
Tot Ion:146 Resp: 19303

Ion Ratio Lower Upper

146 100

111 48.2 34.9 52.3

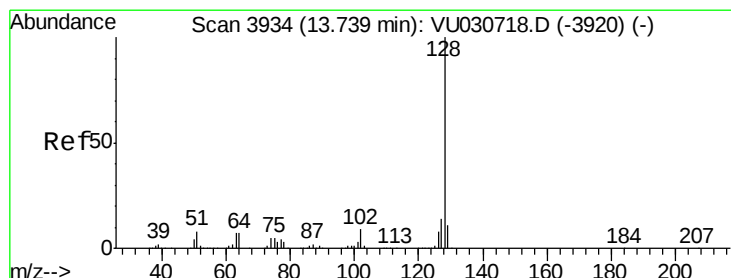
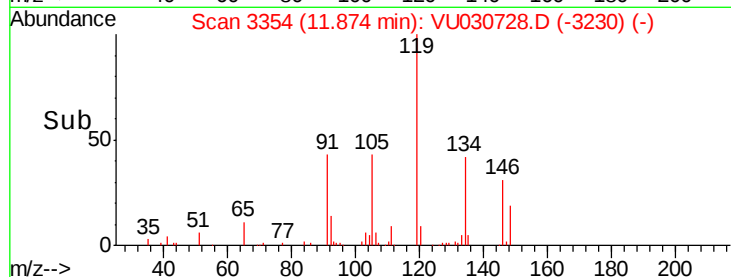
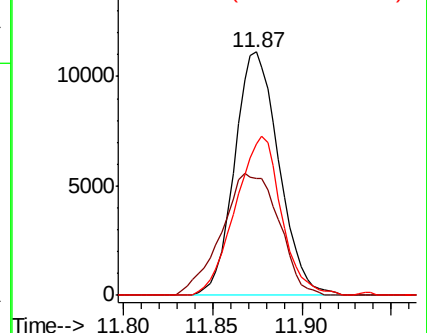
148 62.4 50.4 75.6



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#69

Naphthalene

Concen: 9.410 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU030728.D

Acq: 05 Apr 2019 09:09

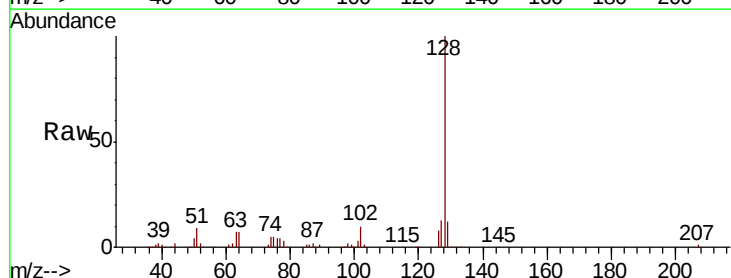
Tgt Ion:128 Resp: 129046

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

129 10.2 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

