

Data File : VU032264.D
Acq On : 23 May 2019 13:11
Operator : JC/SP
Sample : K3001-04MS
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
E3YF0MS

Quant Time: May 24 01:38:33 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 24 01:34:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	362652	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	380591	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	154889	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	92809	4.56	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.20%
7) Chloroethane-d5	1.68	69	92830	4.89	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.80%
11) 1,1-Dichloroethene-d2	2.27	63	187871	5.01	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	100.20%
20) 2-Butanone-d5	4.19	46	283649	49.37	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	98.74%
24) Chloroform-d	4.64	84	252132	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.00%
26) 1,2-Dichloroethane-d4	5.31	65	137248	4.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.60%
32) Benzene-d6	5.33	84	487824	4.52	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.40%
36) 1,2-Dichloropropane-d6	6.33	67	163403	4.66	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	93.20%
41) Toluene-d8	7.56	98	442957	4.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.40%
43) trans-1,3-Dichloropropene-	7.85	79	60020	4.45	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	89.00%
46) 2-Hexanone-d5	8.31	63	236806	46.67	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	93.34%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	166615	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.60%
64) 1,2-Dichlorobenzene-d4	11.86	152	204983	4.80	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.00%

Target Compounds

					Qvalue
3) Chloromethane	1.33	50	3365	0.216 ug/L	94
9) Trichlorofluoromethane	1.88	101	6744	0.331 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	1880	0.146 ug/L #	19
12) 1,1-Dichloroethene	2.28	96	87502	6.780 ug/L	84
13) Acetone	2.32	43	14255	8.009 ug/L	99
18) trans-1,2-Dichloroethene	2.97	96	4169	0.301 ug/L	95
19) 1,1-Dichloroethane	3.44	63	159874	7.473 ug/L	96
22) cis-1,2-Dichloroethene	4.23	96	23503	1.738 ug/L	87
25) Chloroform	4.67	83	20821	0.901 ug/L	83
27) 1,2-Dichloroethane	5.39	62	2709	0.201 ug/L #	73
29) 1,1,1-Trichloroethane	4.91	97	128617	6.511 ug/L	98
31) Carbon tetrachloride	4.91	117	17857	1.026 ug/L	95
33) Benzene	5.38	78	307089	5.965 ug/L	100
34) Trichloroethene	6.18	95	106673	7.720 ug/L	96
35) Methylcyclohexane	6.33	83	39915	1.961 ug/L #	20
37) 1,2-Dichloropropane	6.33	63	18393	1.484 ug/L #	87
38) Bromodichloromethane	6.76	83	5100	0.317 ug/L	85

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 24 01:34:27 2019
Response via : Initial Calibration

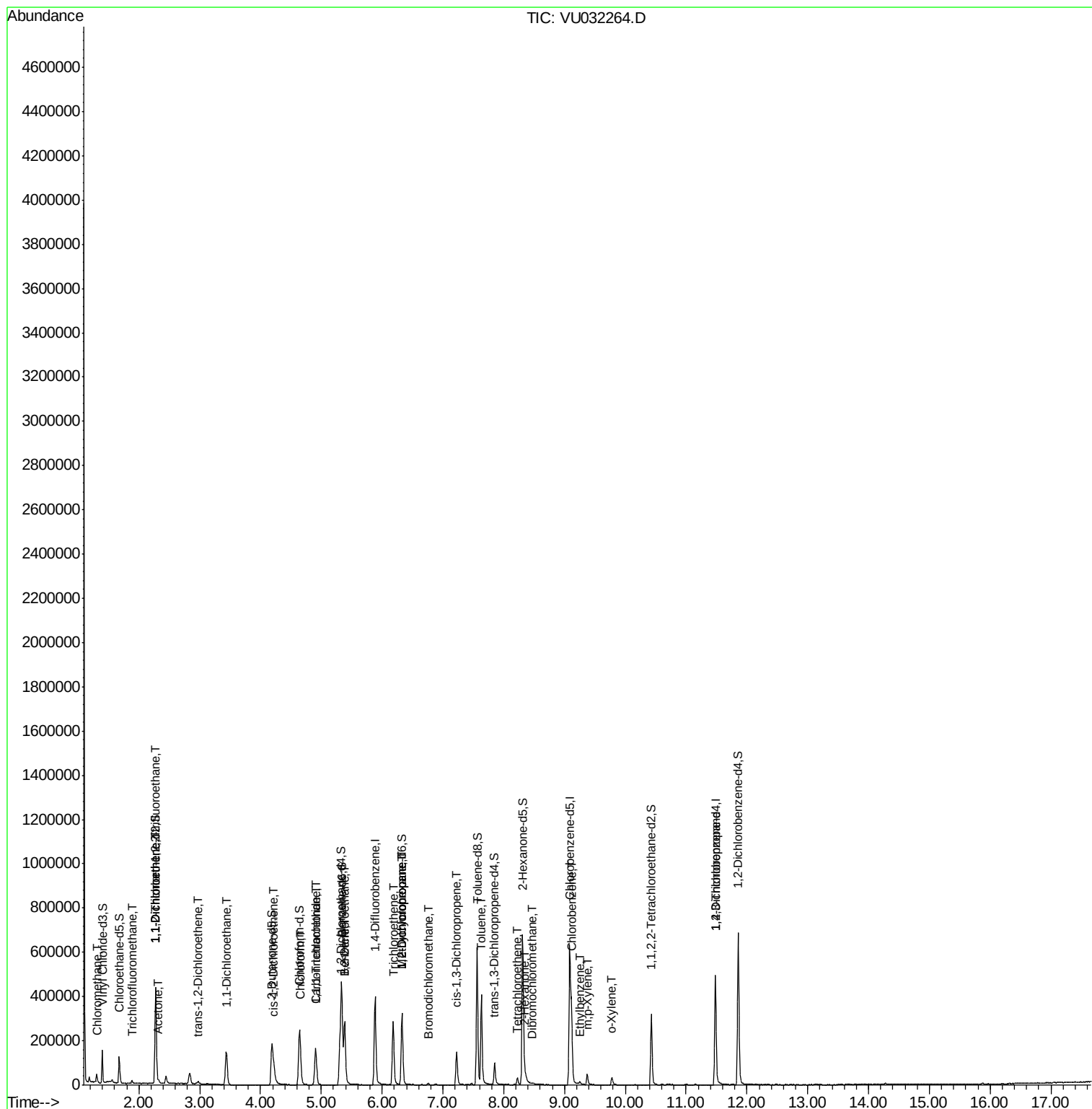
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) cis-1,3-Dichloropropene	7.22	75	3713	0.210	ug/L #	65
42) Toluene	7.63	91	318646	5.825	ug/L	96
47) Tetrachloroethene	8.23	164	8167	0.716	ug/L	85
48) 2-Hexanone	8.36	43	9265	1.928	ug/L #	55
49) Dibromochloromethane	8.47	129	1301	0.119	ug/L	95
51) Chlorobenzene	9.12	112	216944	6.197	ug/L	97
52) Ethylbenzene	9.25	91	7831	0.142	ug/L	91
53) m,p-Xylene	9.37	106	15763	0.770	ug/L	88
54) o-Xylene	9.78	106	9153	0.447	ug/L	86
59) 1,2,3-Trichloropropane	11.48	75	16178	2.004	ug/L	94

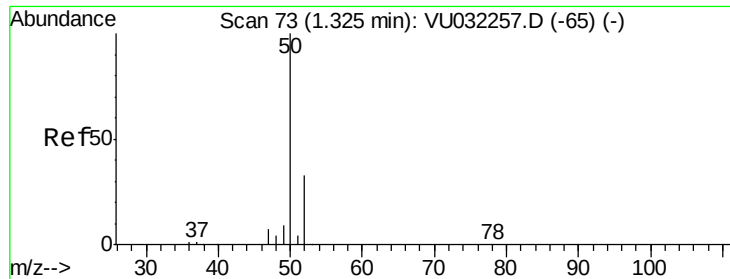
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.216 ug/L

RT: 1.33 min Scan# 74

Delta R.T. 0.00 min

Lab File: VU032264.D

Acq: 23 May 2019 13:11

Instrument :

MSVOA_U

ClientSampleId :

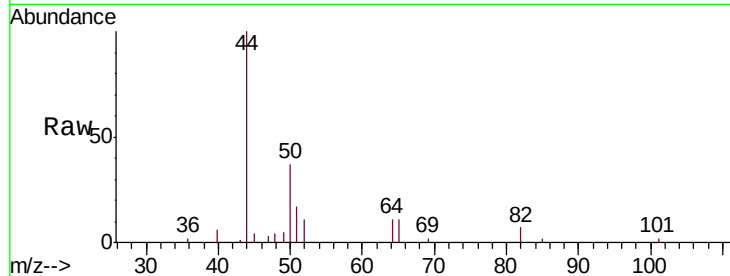
E3YF0MS

Tgt Ion: 50 Resp: 3365

Ion Ratio Lower Upper

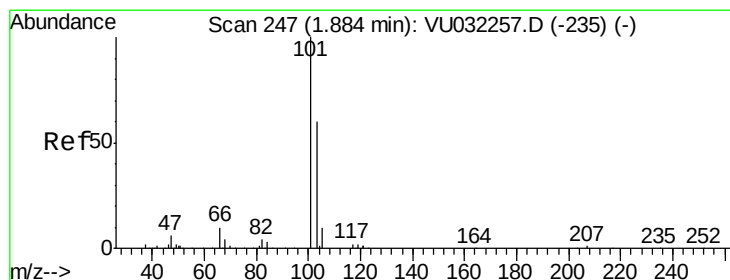
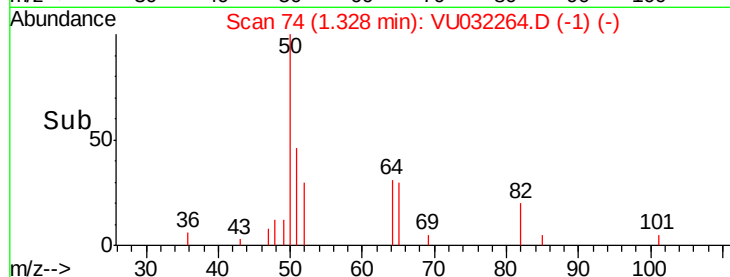
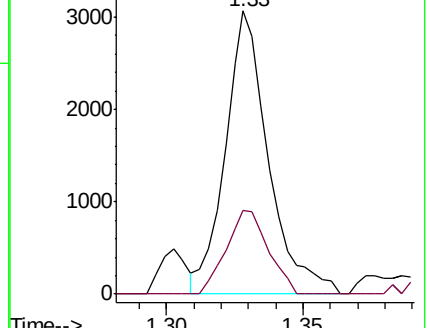
50 100

52 29.7 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU032257.D (-65) (-)

Ion 52.05 (51.75 to 52.75): VU032257.D (-65) (-)



#9

Trichlorofluoromethane

Concen: 0.331 ug/L

RT: 1.88 min Scan# 247

Delta R.T. 0.00 min

Lab File: VU032264.D

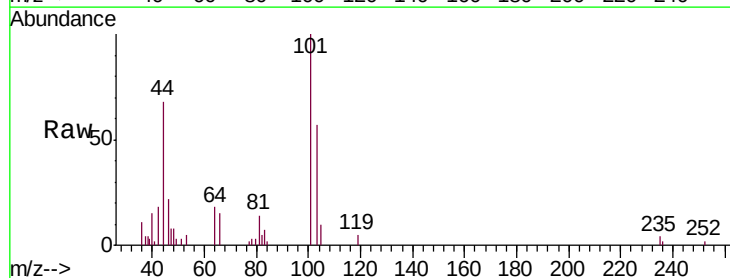
Acq: 23 May 2019 13:11

Tgt Ion: 101 Resp: 6744

Ion Ratio Lower Upper

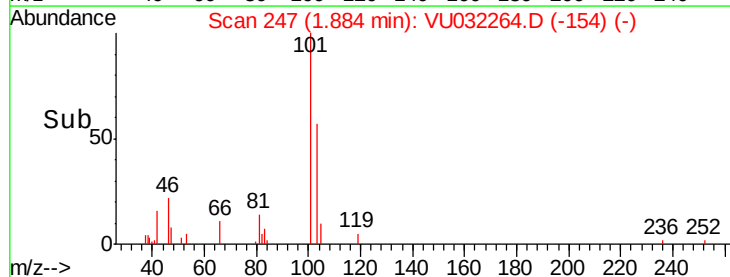
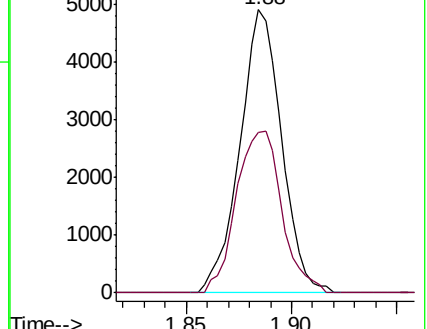
101 100

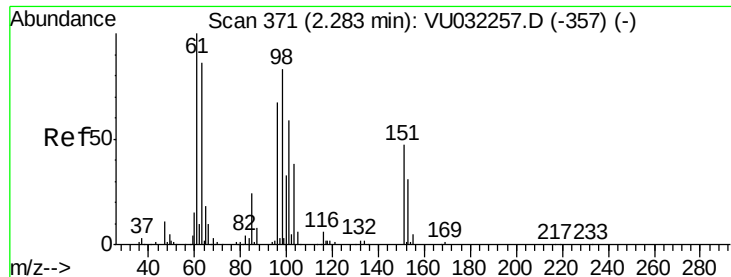
103 62.3 51.9 77.9



Abundance Ion 101.00 (100.70 to 101.70): VU032257.D (-235) (-)

Ion 103.00 (102.70 to 103.70): VU032257.D (-235) (-)





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.146 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.01 min

Lab File: VU032264.D

Acq: 23 May 2019 13:11

Instrument :

MSVOA_U

ClientSampleId :

E3YF0MS

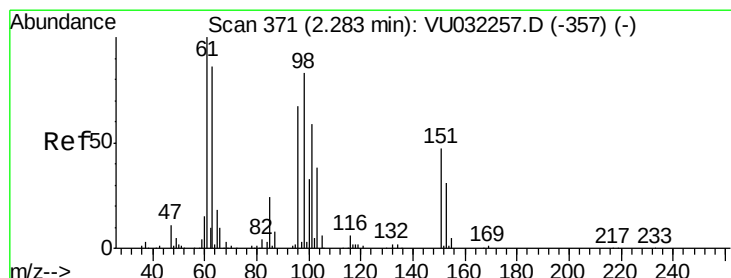
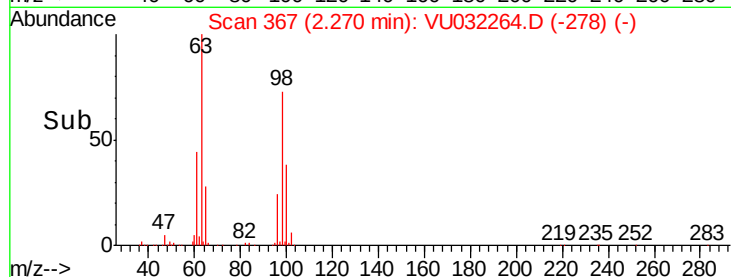
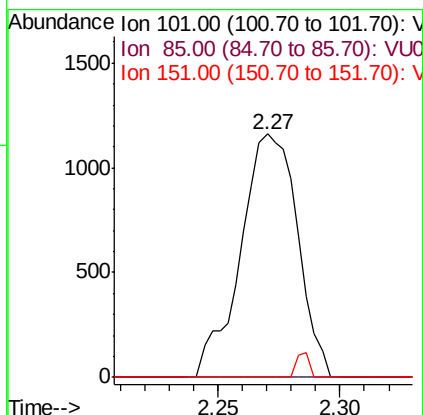
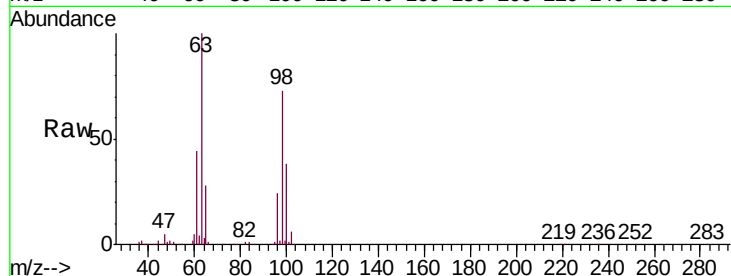
Tgt Ion:101 Resp: 1880

Ion Ratio Lower Upper

101 100

85 0.0 34.2 51.4#

151 2.3 64.4 96.6#



#12

1,1-Dichloroethene

Concen: 6.780 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU032264.D

Acq: 23 May 2019 13:11

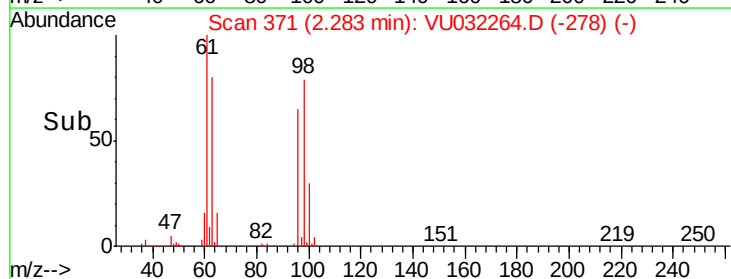
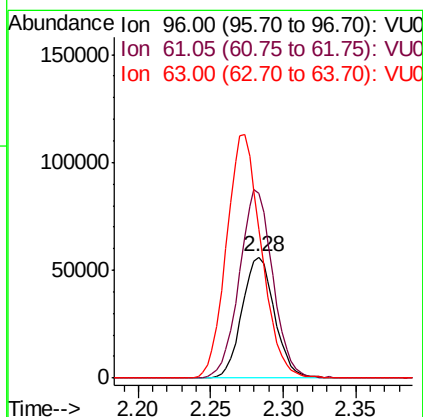
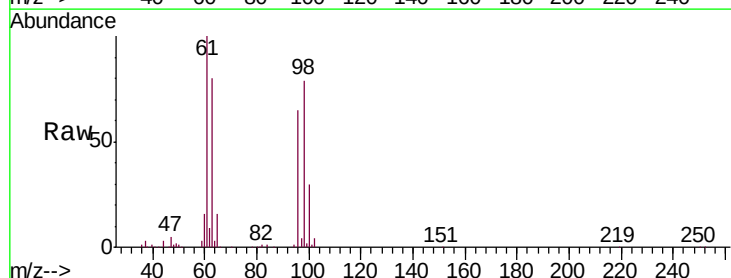
Tgt Ion: 96 Resp: 87502

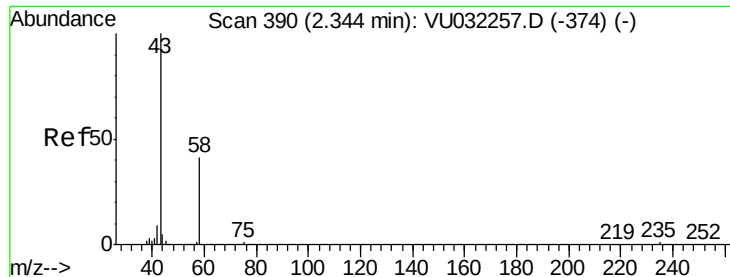
Ion Ratio Lower Upper

96 100

61 152.8 113.8 211.3

63 122.4 108.8 202.2





#13

Acetone

Concen: 8.009 ug/L

RT: 2.32 min Scan# 383

Delta R.T. -0.02 min

Lab File: VU032264.D

Acq: 23 May 2019 13:11

Instrument :

MSVOA_U

ClientSampleId :

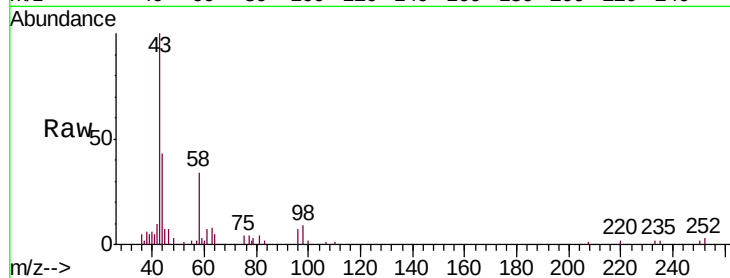
E3YF0MS

Tgt Ion: 43 Resp: 14255

Ion Ratio Lower Upper

43 100

58 35.7 0.0 72.6



Abundance Ion 43.05 (42.75 to 43.75): VU032257.D (-374) (-)

Ion 58.05 (57.75 to 58.75): VU032257.D (-374) (-)

2.32

10000

8000

6000

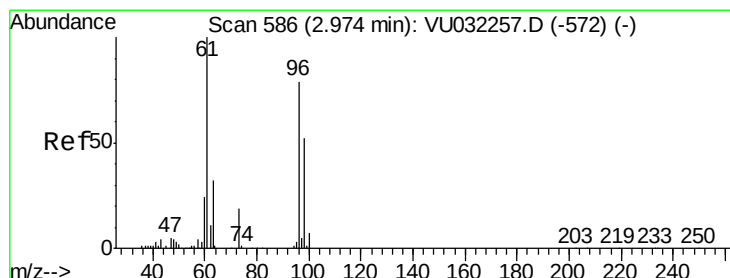
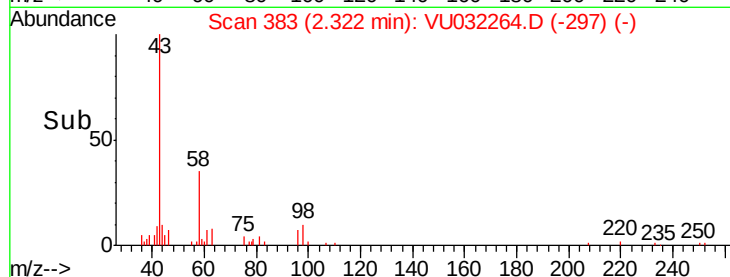
4000

2000

0

Time-->

2.25 2.30 2.35 2.40



#18

trans-1,2-Dichloroethene

Concen: 0.301 ug/L

RT: 2.97 min Scan# 585

Delta R.T. -0.00 min

Lab File: VU032264.D

Acq: 23 May 2019 13:11

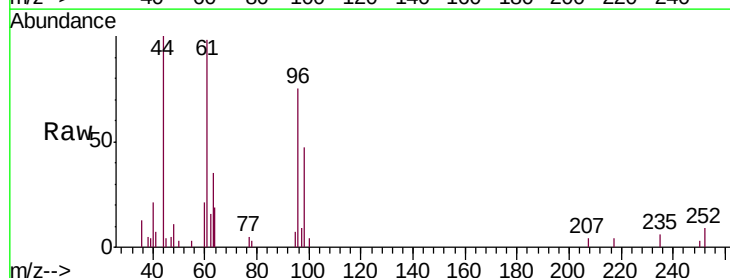
Tgt Ion: 96 Resp: 4169

Ion Ratio Lower Upper

96 100

61 131.4 90.6 168.3

98 62.6 49.5 91.9



Abundance Ion 96.00 (95.70 to 96.70): VU032257.D (-572) (-)

Ion 61.05 (60.75 to 61.75): VU032257.D (-572) (-)

Ion 97.95 (97.65 to 98.65): VU032257.D (-572) (-)

2.97

4000

3000

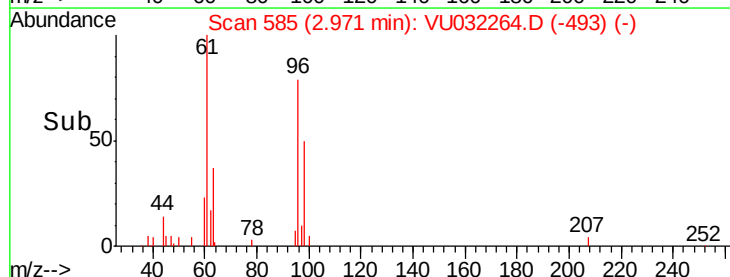
2000

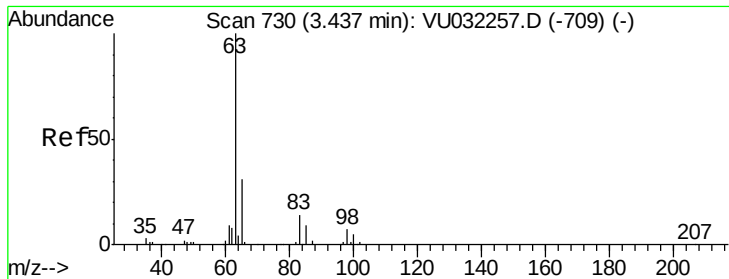
1000

0

Time-->

2.95 3.00

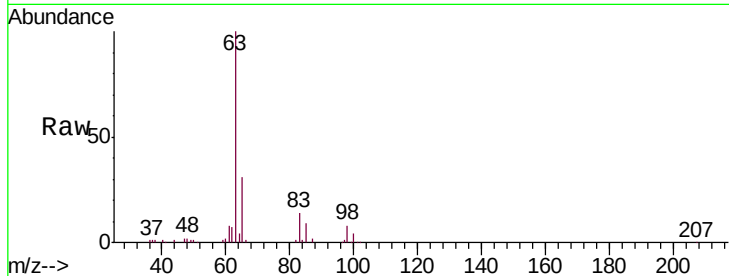




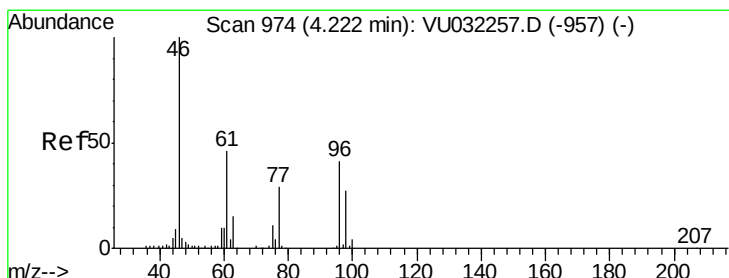
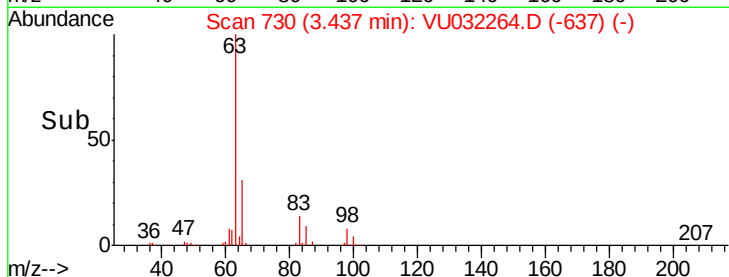
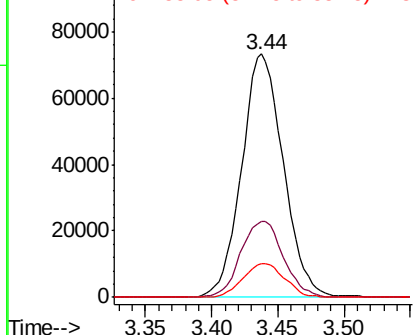
#19
 1,1-Dichloroethane
 Concen: 7.473 ug/L
 RT: 3.44 min Scan# 730
 Delta R.T. 0.00 min
 Lab File: VU032264.D
 Acq: 23 May 2019 13:11

Instrument :
 MSVOA_U
 ClientSampleId :
 E3YF0MS

Tgt Ion: 63 Resp: 159874
 Ion Ratio Lower Upper
 63 100
 65 31.2 23.5 43.7
 83 14.1 8.8 16.3

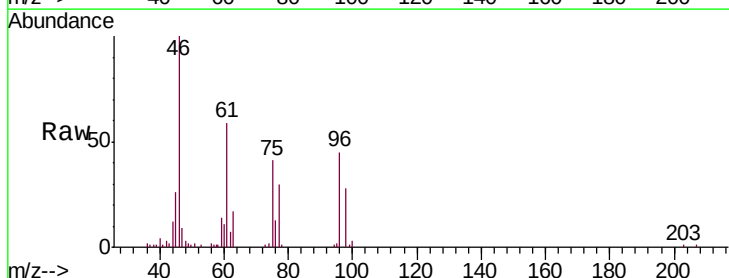


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

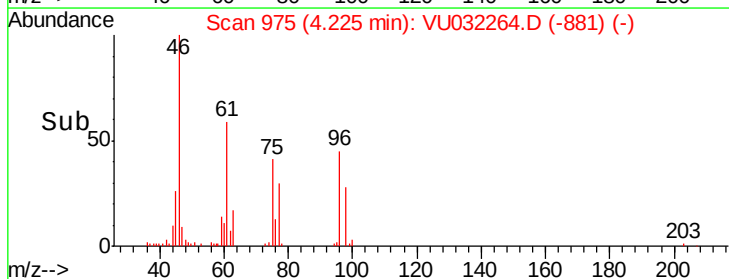
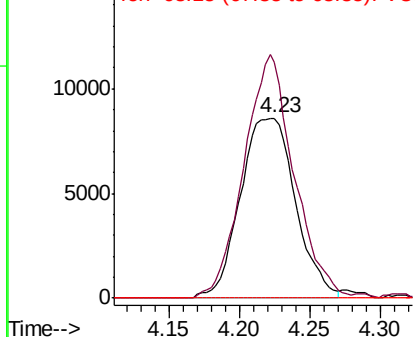


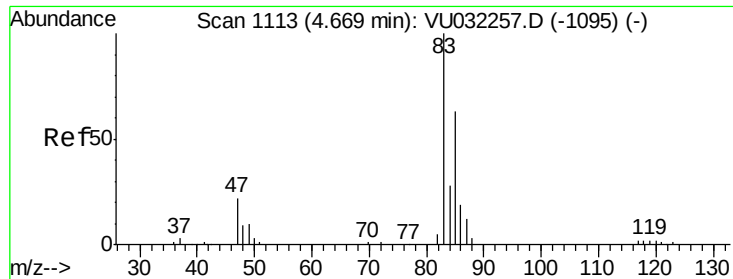
#22
 cis-1,2-Dichloroethene
 Concen: 1.738 ug/L
 RT: 4.23 min Scan# 975
 Delta R.T. 0.00 min
 Lab File: VU032264.D
 Acq: 23 May 2019 13:11

Tgt Ion: 96 Resp: 23503
 Ion Ratio Lower Upper
 96 100
 61 131.7 82.5 153.1
 68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0

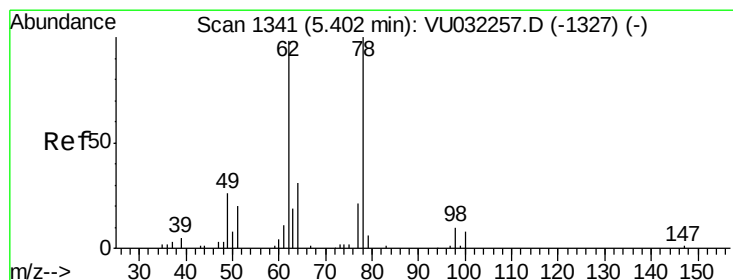
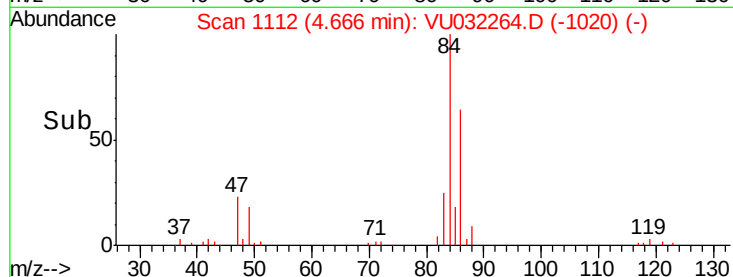
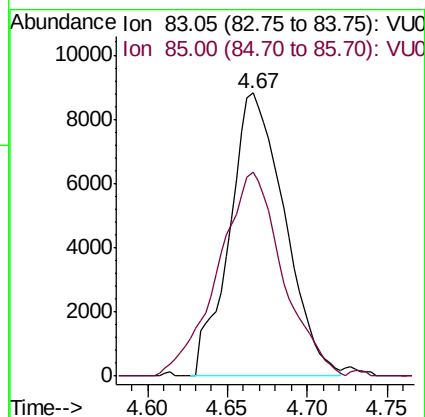
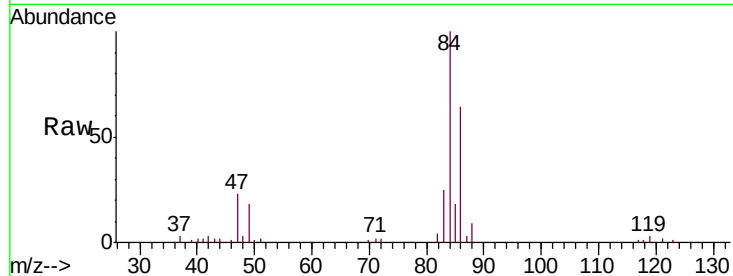




#25
Chloroform
Concen: 0.901 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VU032264.D
Acq: 23 May 2019 13:11

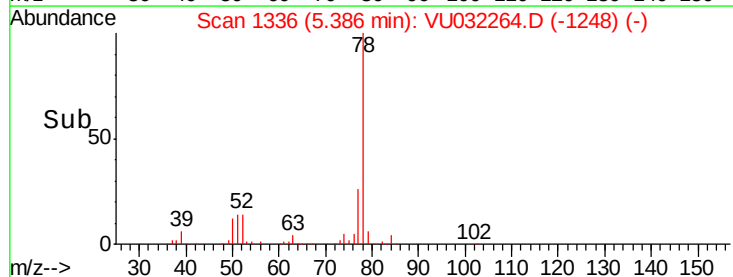
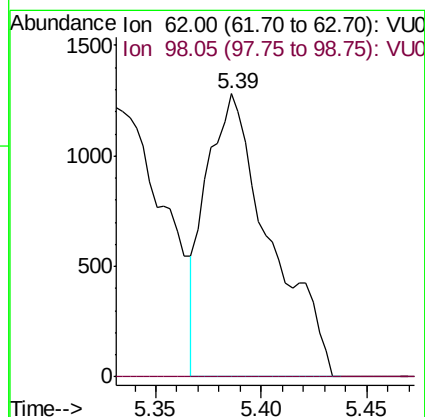
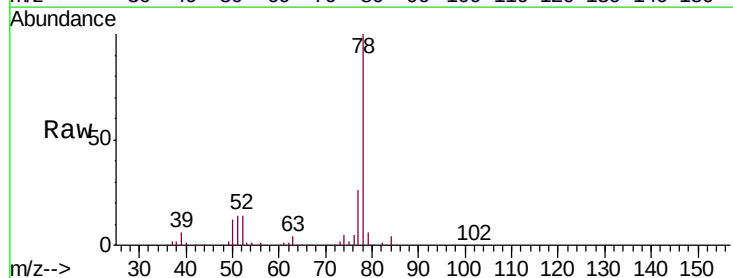
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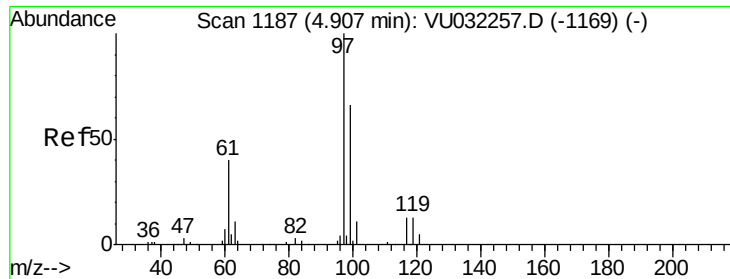
Tgt Ion: 83 Resp: 20821
Ion Ratio Lower Upper
83 100
85 72.1 41.6 77.3



#27
1,2-Dichloroethane
Concen: 0.201 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. -0.02 min
Lab File: VU032264.D
Acq: 23 May 2019 13:11

Tgt Ion: 62 Resp: 2709
Ion Ratio Lower Upper
62 100
98 0.0 8.2 12.2#

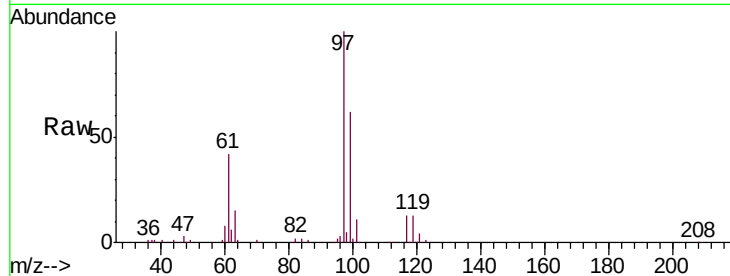




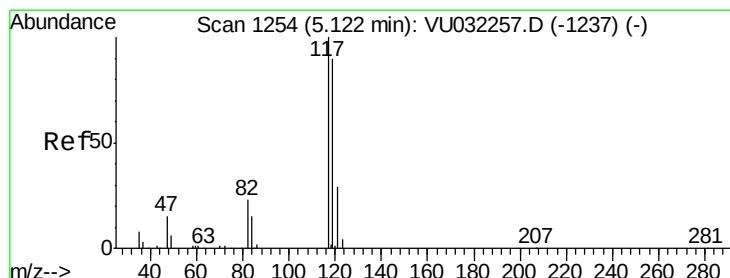
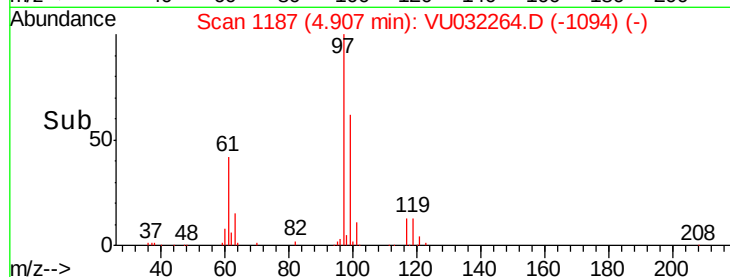
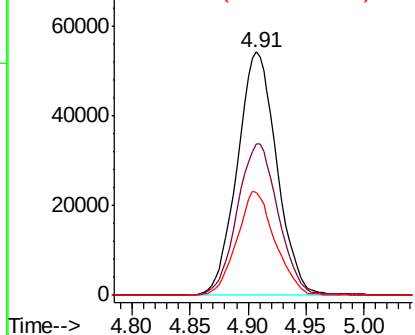
#29
 1,1,1-Trichloroethane
 Concen: 6.511 ug/L
 RT: 4.91 min Scan# 1187
 Delta R.T. 0.00 min
 Lab File: VU032264.D
 Acq: 23 May 2019 13:11

Instrument :
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 E3YF0MS

Tgt Ion: 97 Resp: 128617
 Ion Ratio Lower Upper
 97 100
 99 64.6 50.3 75.5
 61 41.4 34.1 51.1

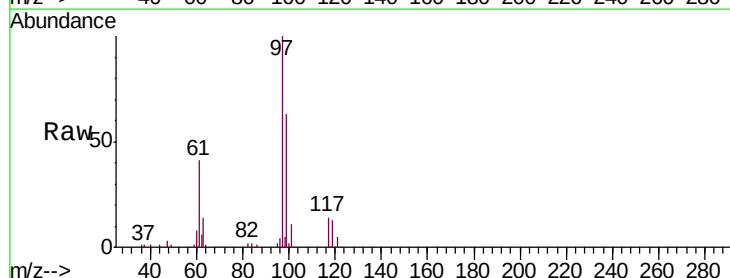


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

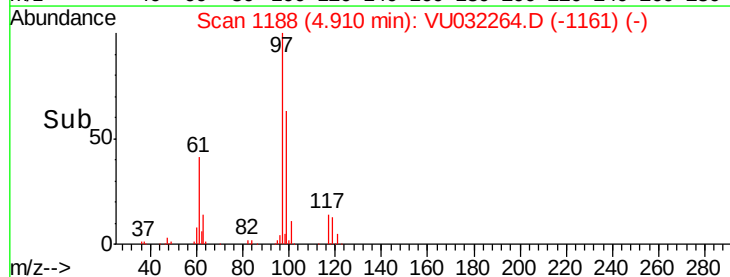
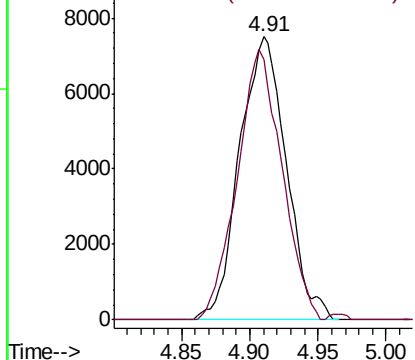


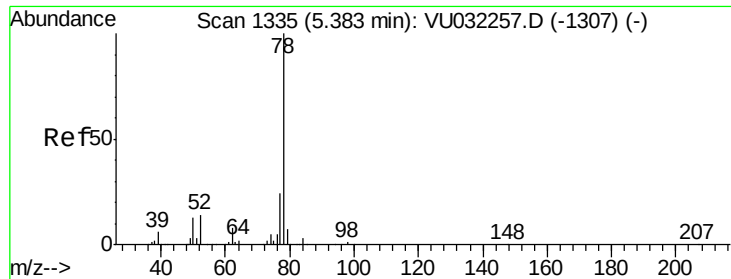
#31
 Carbon tetrachloride
 Concen: 1.026 ug/L
 RT: 4.91 min Scan# 1188
 Delta R.T. -0.21 min
 Lab File: VU032264.D
 Acq: 23 May 2019 13:11

Tgt Ion: 117 Resp: 17857
 Ion Ratio Lower Upper
 117 100
 119 91.3 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 118.90 (118.60 to 119.60): V





#33

Benzene

Concen: 5.965 ug/L

RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VU032264.D

Acq: 23 May 2019 13:11

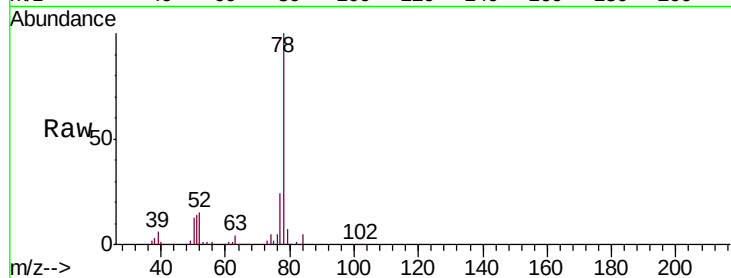
Instrument :

MSVOA_U

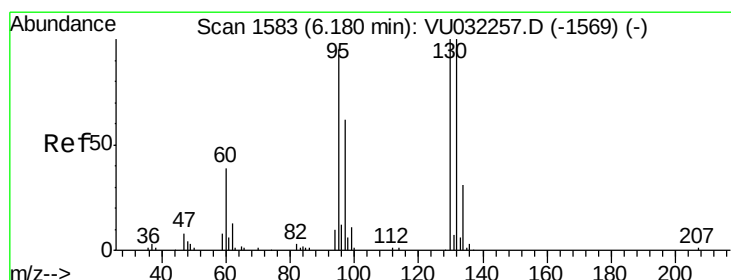
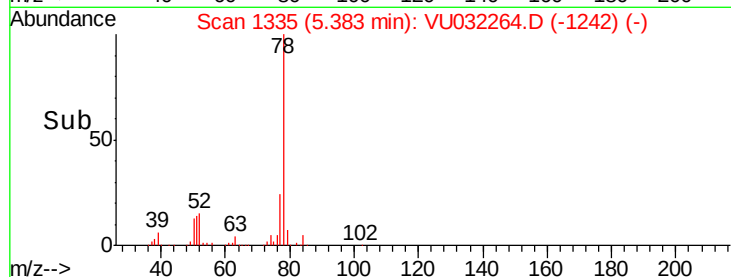
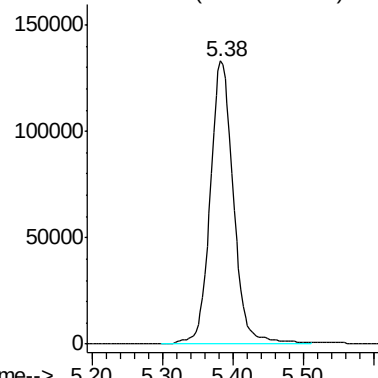
ClientSampleId :

E3YF0MS

Tgt Ion: 78 Resp: 307089



Abundance Ion 78.10 (77.80 to 78.80): VU0



#34

Trichloroethene

Concen: 7.720 ug/L

RT: 6.18 min Scan# 1583

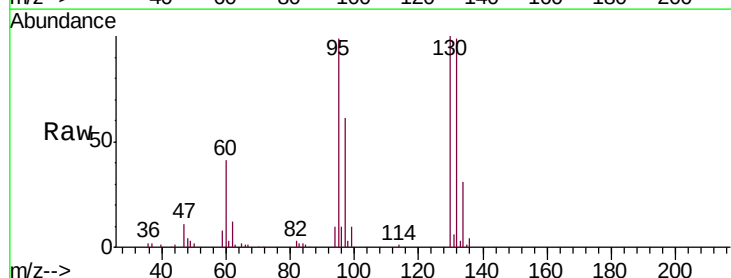
Delta R.T. 0.00 min

Lab File: VU032264.D

Acq: 23 May 2019 13:11

Tgt Ion: 95 Resp: 106673

Ion	Ratio	Lower	Upper
95	100		
97	61.6	39.9	74.1
132	100.1	65.9	122.5
130	101.2	70.6	131.2

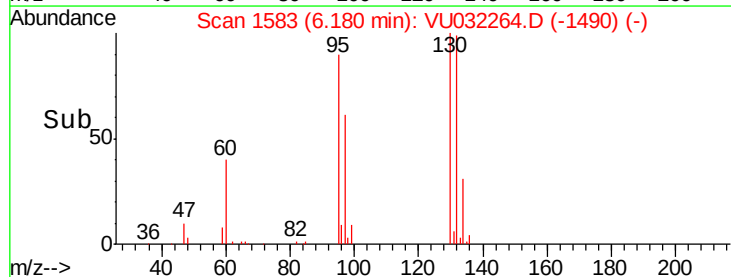
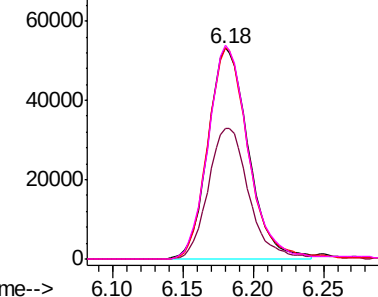


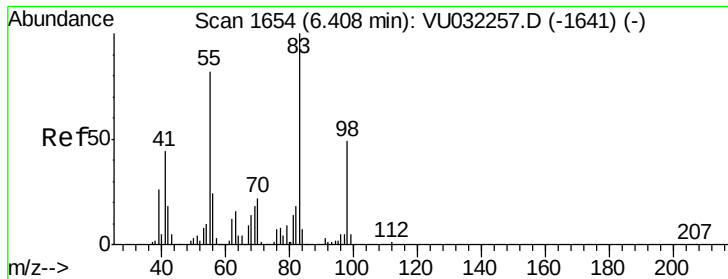
Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V

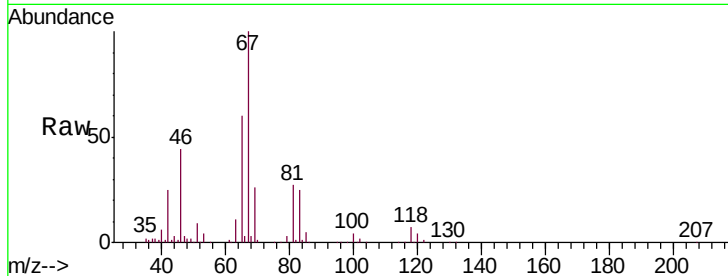




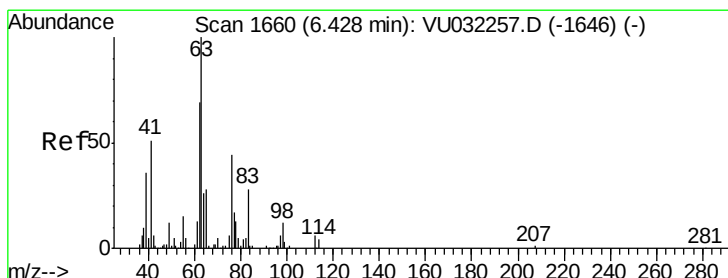
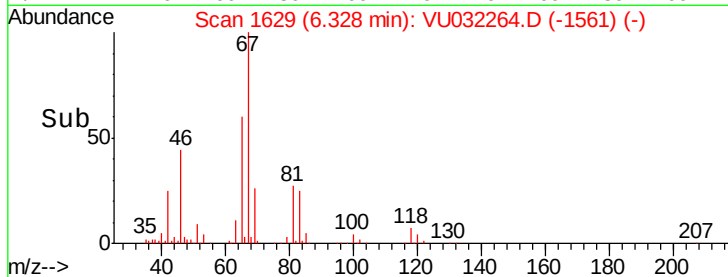
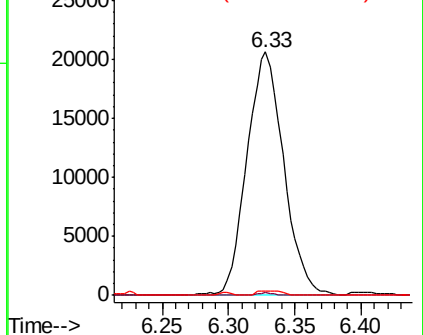
#35
Methylcyclohexane
Concen: 1.961 ug/L
RT: 6.33 min Scan# 1629
Delta R.T. -0.08 min
Lab File: VU032264.D
Acq: 23 May 2019 13:11

Instrument :
MSVOA_U
ClientSampleId :
E3YF0MS

Tgt Ion: 83 Resp: 39915
Ion Ratio Lower Upper
83 100
55 0.4 59.7 89.5#
98 0.5 37.5 56.3#

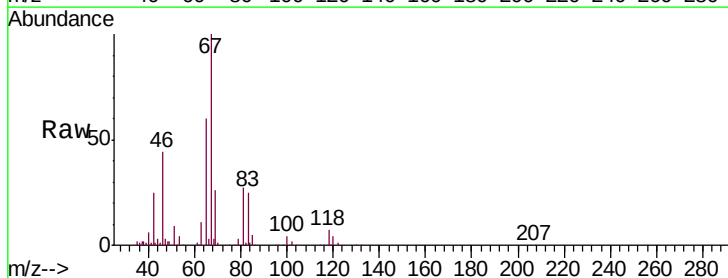


Abundance Ion 83.15 (82.85 to 83.85): VU0
Ion 55.10 (54.80 to 55.80): VU0
Ion 98.15 (97.85 to 98.85): VU0

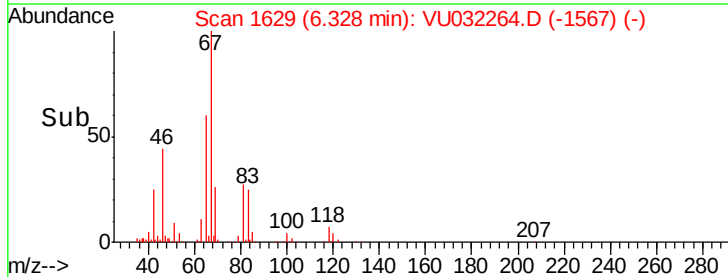
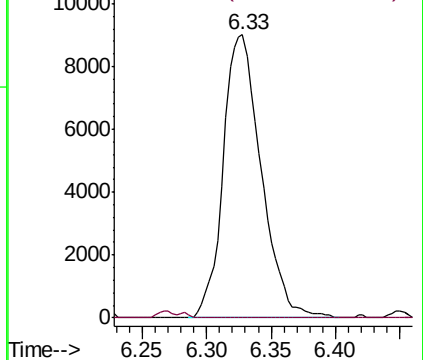


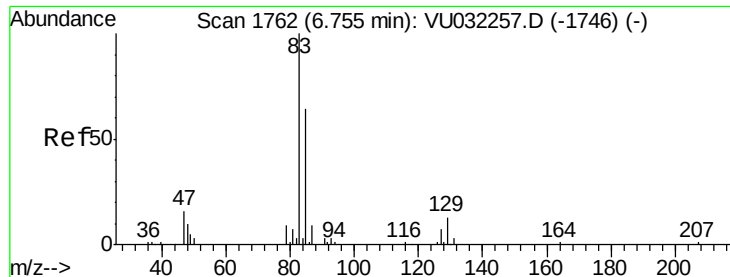
#37
1,2-Dichloropropane
Concen: 1.484 ug/L
RT: 6.33 min Scan# 1629
Delta R.T. -0.10 min
Lab File: VU032264.D
Acq: 23 May 2019 13:11

Tgt Ion: 63 Resp: 18393
Ion Ratio Lower Upper
63 100
112 0.4 3.8 5.8#



Abundance Ion 63.10 (62.80 to 63.80): VU0
Ion 112.10 (111.80 to 112.80): V

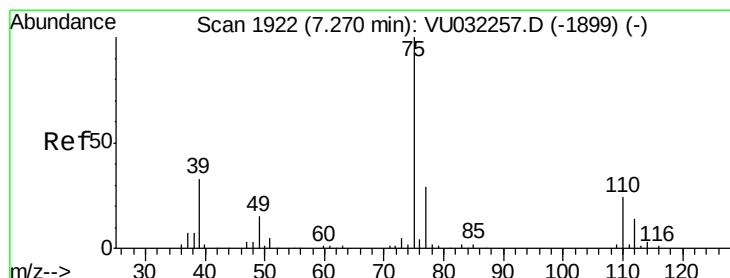
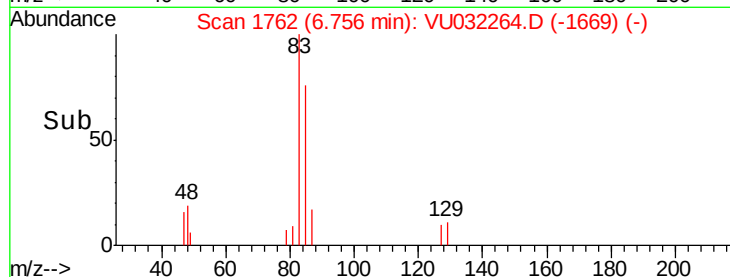
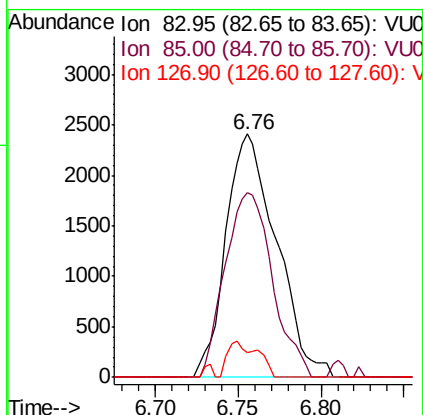
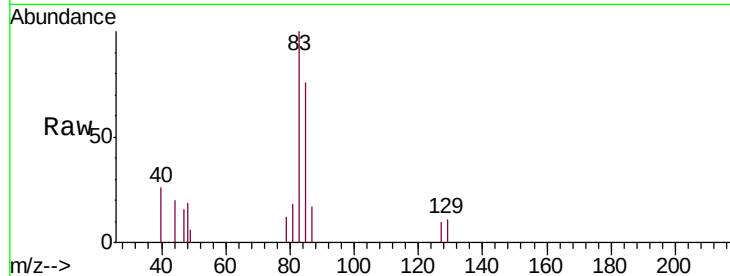




#38
 Bromodichloromethane
 Concen: 0.317 ug/L
 RT: 6.76 min Scan# 1762
 Delta R.T. 0.00 min
 Lab File: VU032264.D
 Acq: 23 May 2019 13:11

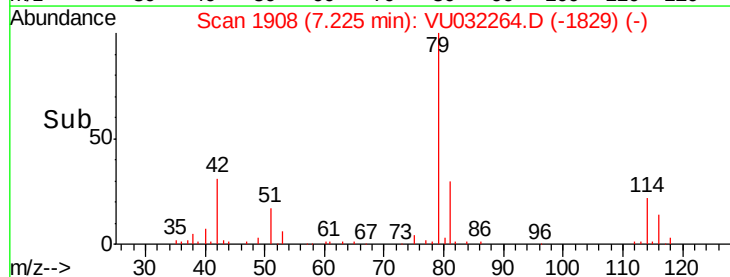
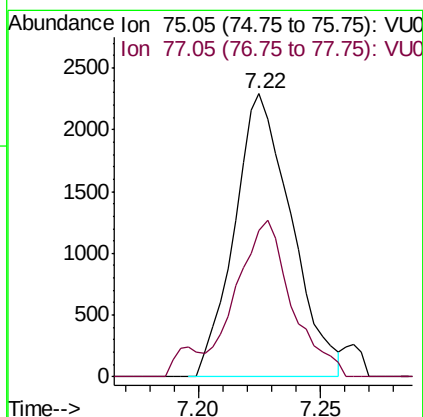
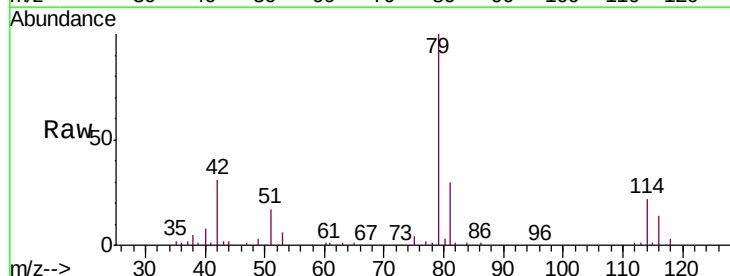
Instrument :
 MSVOA_U
 ClientSampleId :
 E3YF0MS

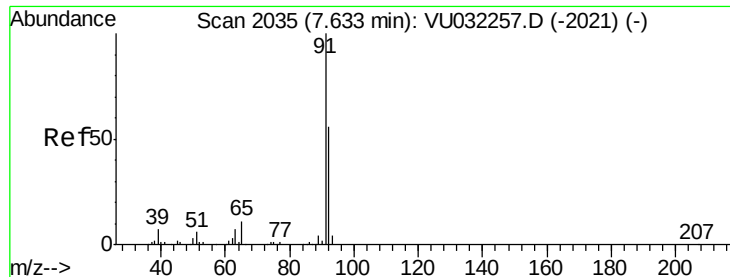
Tgt Ion: 83 Resp: 5100
 Ion Ratio Lower Upper
 83 100
 85 75.9 44.4 82.4
 127 9.9 7.0 10.6



#39
 cis-1,3-Dichloropropene
 Concen: 0.210 ug/L
 RT: 7.22 min Scan# 1908
 Delta R.T. -0.04 min
 Lab File: VU032264.D
 Acq: 23 May 2019 13:11

Tgt Ion: 75 Resp: 3713
 Ion Ratio Lower Upper
 75 100
 77 51.7 22.6 42.0#





#42

Toluene

Concen: 5.825 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032264.D

Acq: 23 May 2019 13:11

Instrument :

MSVOA_U

ClientSampleId :

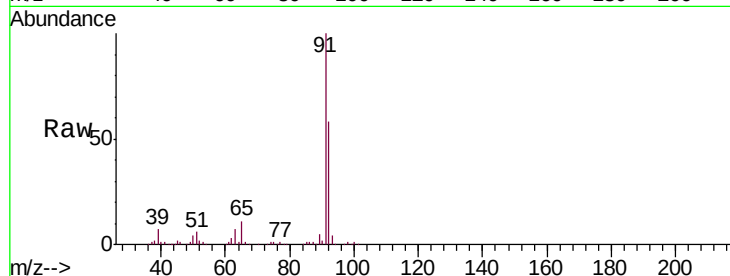
E3YF0MS

Tgt Ion: 91 Resp: 318646

Ion Ratio Lower Upper

91 100

92 58.0 38.5 71.5



Abundance Ion 91.15 (90.85 to 91.85): VU032257.D (-2021) (-)

Ion 92.15 (91.85 to 92.85): VU032257.D (-2021) (-)

7.63

200000

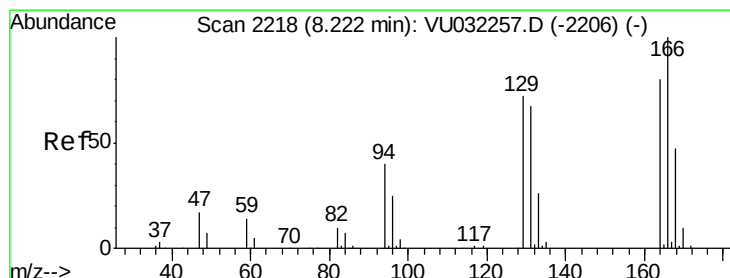
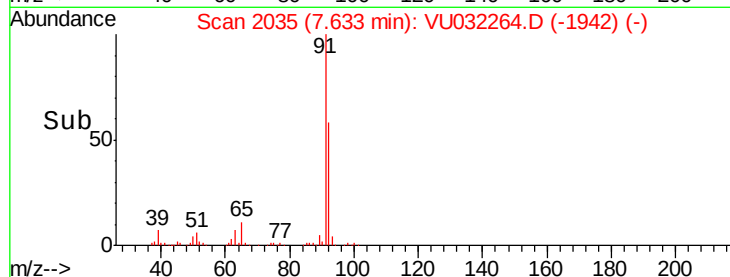
150000

100000

50000

0

Time-->



#47

Tetrachloroethene

Concen: 0.716 ug/L

RT: 8.23 min Scan# 2220

Delta R.T. 0.01 min

Lab File: VU032264.D

Acq: 23 May 2019 13:11

Tgt Ion: 164 Resp: 8167

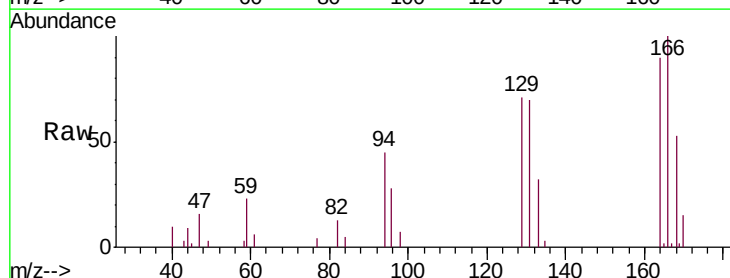
Ion Ratio Lower Upper

164 100

129 79.1 67.1 124.7

131 78.5 62.2 115.4

166 111.6 90.9 168.9



Abundance Ion 163.90 (163.60 to 164.60): VU032257.D (-2206) (-)

Ion 128.95 (128.65 to 129.65): VU032257.D (-2206) (-)

Ion 130.95 (130.65 to 131.65): VU032257.D (-2206) (-)

Ion 165.90 (165.60 to 166.60): VU032257.D (-2206) (-)

8.23

8000

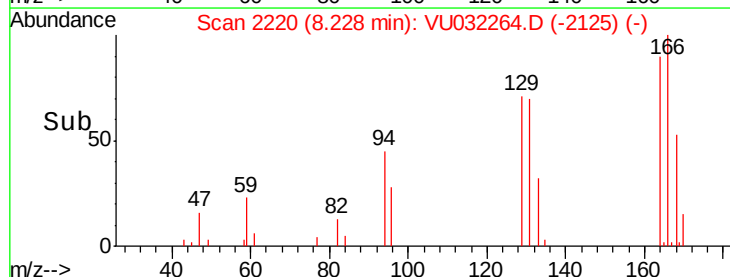
6000

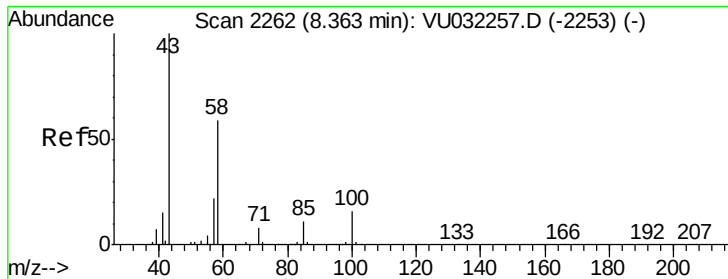
4000

2000

0

Time-->

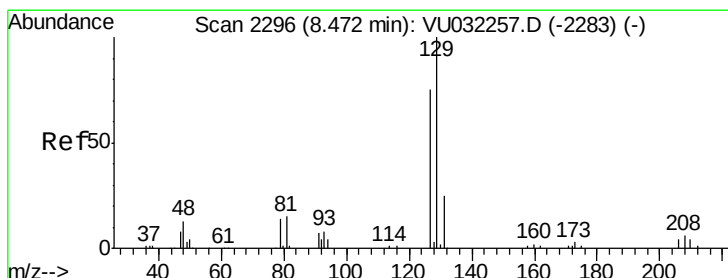
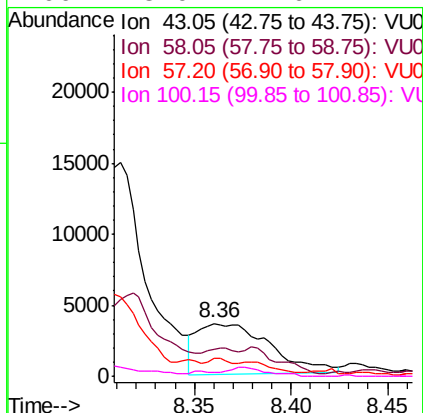
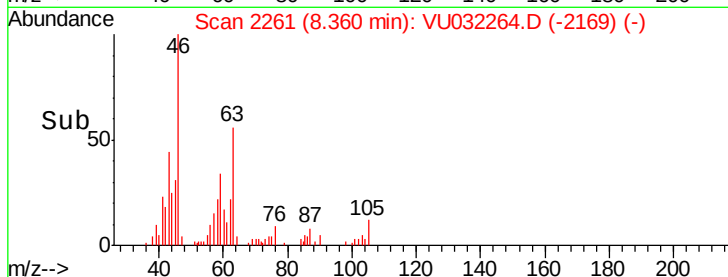
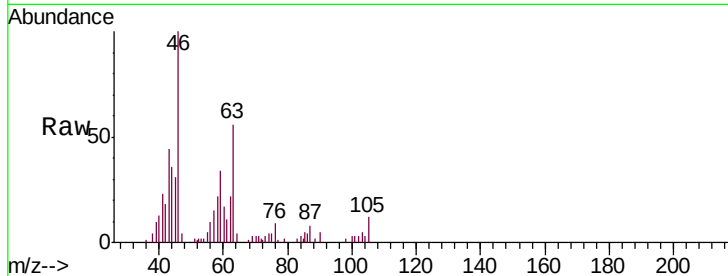




#48
2-Hexanone
Concen: 1.928 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. -0.00 min
Lab File: VU032264.D
Acq: 23 May 2019 13:11

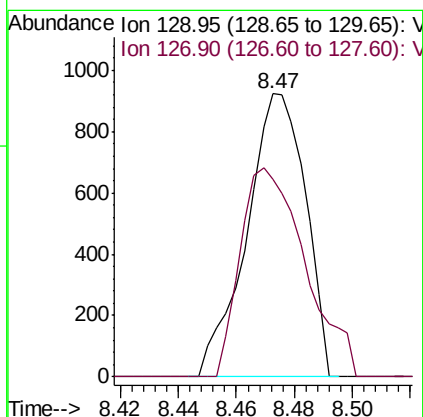
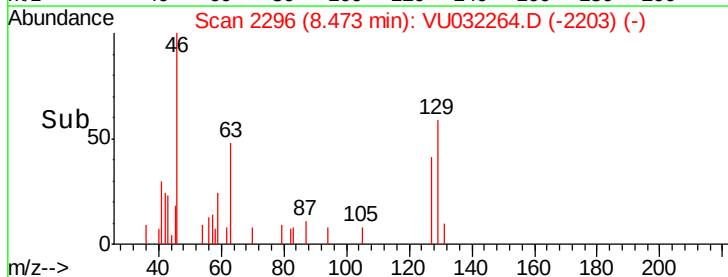
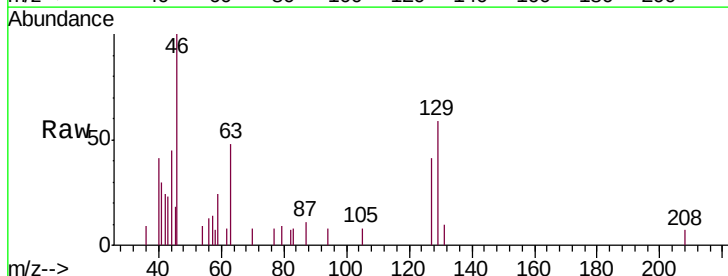
Instrument :
MSVOA_U
ClientSampleId :
E3YF0MS

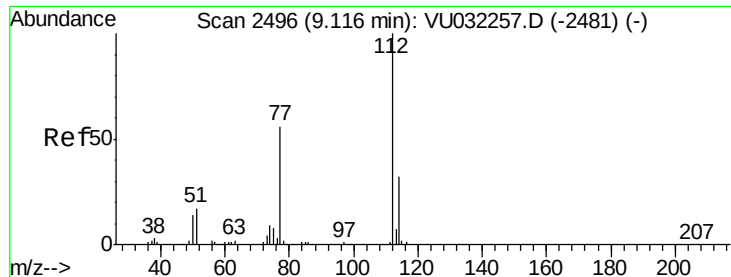
Tgt Ion: 43 Resp: 9265
Ion Ratio Lower Upper
43 100
58 22.6 49.7 74.5#
57 3.5 17.1 25.7#
100 3.0 11.6 17.4#



#49
Dibromochloromethane
Concen: 0.119 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032264.D
Acq: 23 May 2019 13:11

Tgt Ion: 129 Resp: 1301
Ion Ratio Lower Upper
129 100
127 69.8 51.7 95.9





#51

Chlorobenzene

Concen: 6.197 ug/L

RT: 9.12 min Scan# 2496

Delta R.T. 0.00 min

Lab File: VU032264.D

Acq: 23 May 2019 13:11

Instrument :

MSVOA_U

ClientSampleId :

E3YF0MS

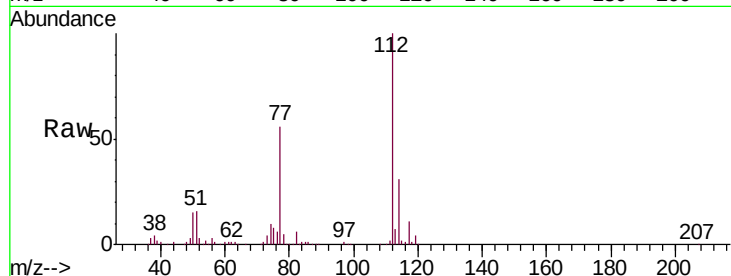
Tgt Ion: 112 Resp: 216944

Ion Ratio Lower Upper

112 100

114 31.4 22.6 42.0

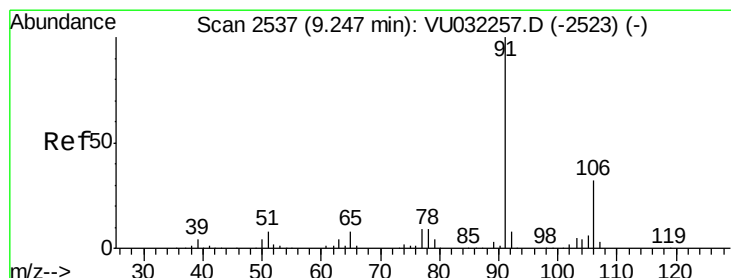
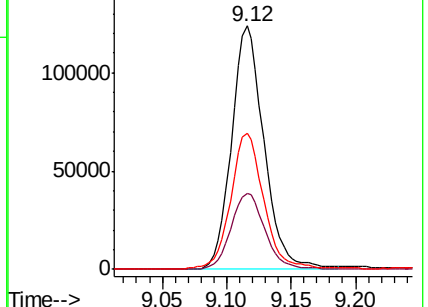
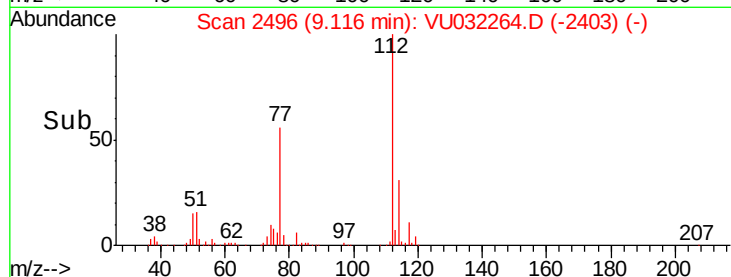
77 55.8 46.8 70.2



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VU0



#52

Ethylbenzene

Concen: 0.142 ug/L

RT: 9.25 min Scan# 2538

Delta R.T. 0.00 min

Lab File: VU032264.D

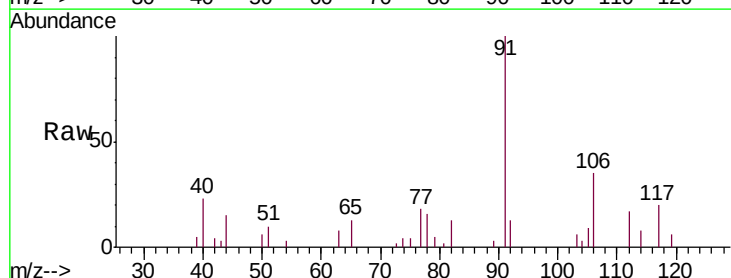
Acq: 23 May 2019 13:11

Tgt Ion: 91 Resp: 7831

Ion Ratio Lower Upper

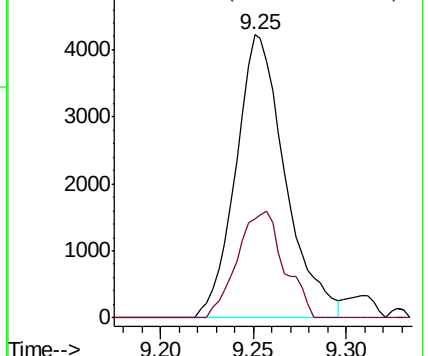
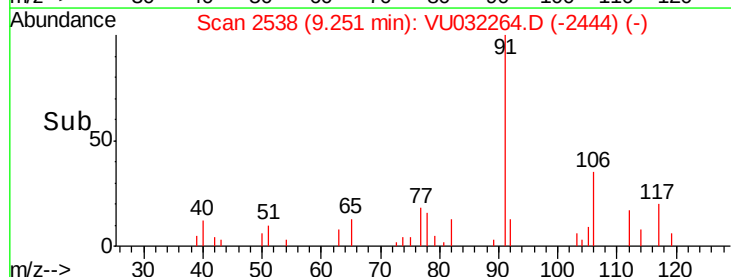
91 100

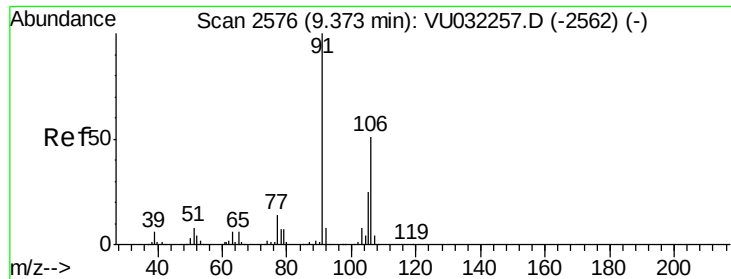
106 35.0 20.9 38.9



Abundance Ion 91.15 (90.85 to 91.85): VU0

Ion 106.15 (105.85 to 106.85): V

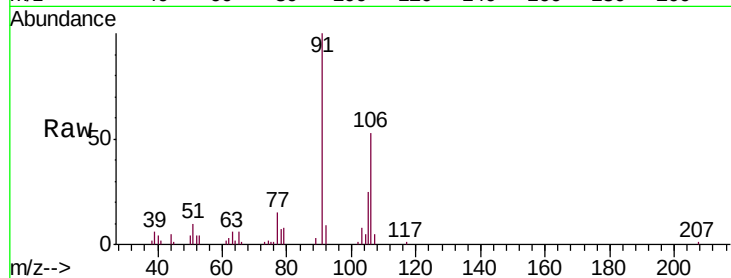




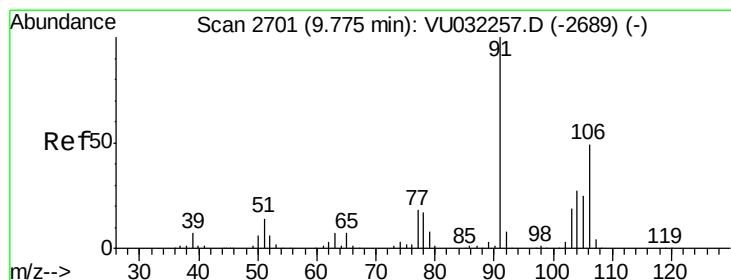
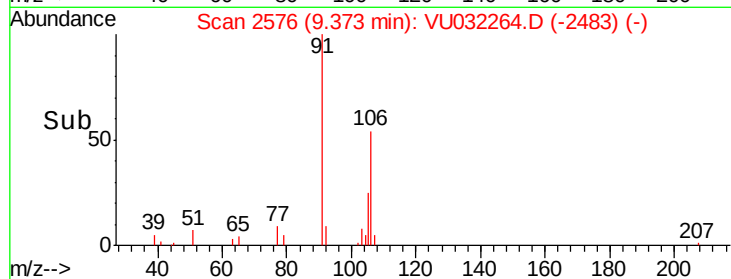
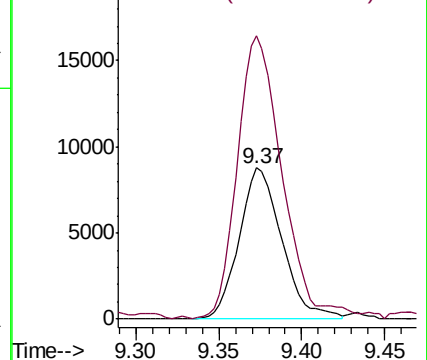
#53
m,p-Xylene
Concen: 0.770 ug/L
RT: 9.37 min Scan# 2576
Delta R.T. 0.00 min
Lab File: VU032264.D
Acq: 23 May 2019 13:11

Instrument :
MSVOA_U
ClientSampleId :
E3YF0MS

Tgt Ion:106 Resp: 15763
Ion Ratio Lower Upper
106 100
91 187.4 143.9 267.2

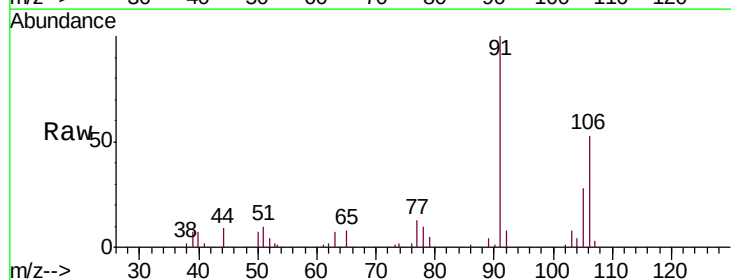


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

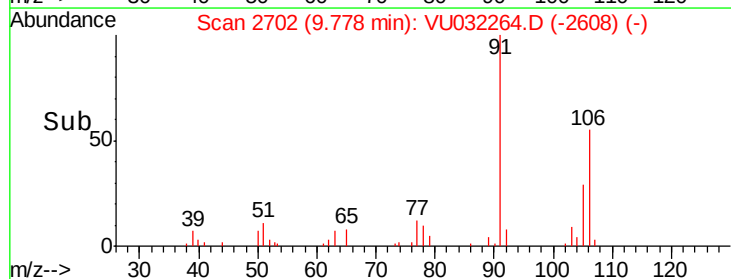
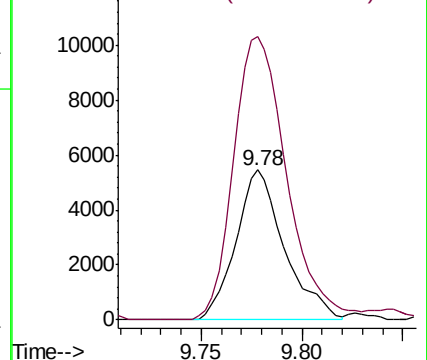


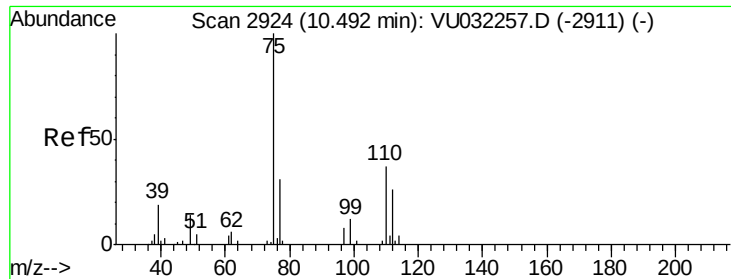
#54
o-Xylene
Concen: 0.447 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU032264.D
Acq: 23 May 2019 13:11

Tgt Ion:106 Resp: 9153
Ion Ratio Lower Upper
106 100
91 188.7 147.8 274.4



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0





#59

1,2,3-Trichloropropane

Concen: 2.004 ug/L

RT: 11.48 min Scan# 3231

Delta R.T. 0.99 min

Lab File: VU032264.D

Acq: 23 May 2019 13:11

Instrument :

MSVOA_U

ClientSampleId :

E3YF0MS

Tgt Ion: 75 Resp: 16178

Ion Ratio Lower Upper

75 100

77 31.7 28.2 42.4

