

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU040324\
 Data File : VU058367.D
 Acq On : 03 Apr 2024 16:31
 Operator : MD/SY
 Sample : P1949-01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Apr 04 01:25:27 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMUTR032124WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Apr 04 01:17:39 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Difluorobenzene	6.242	114	73711	5.000	ug/L	0.00
28) Chlorobenzene-d5	9.412	117	70983	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.804	152	35952	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.595	65	20219	3.246	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	65.000%
7) Chloroethane-d5	1.907	69	21928	4.313	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	86.200%
11) 1,1-Dichloroethene-d2	2.560	65	9795	3.787	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	75.800%
20) 2-Butanone-d5	4.621	46	60247	54.442	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	108.880%
24) Chloroform-d	5.052	84	58540	5.257	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	105.200%
26) 1,2-Dichloroethane-d4	5.695	65	24939	4.790	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.800%
32) Benzene-d6	5.721	84	98646	4.279	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.600%
36) 1,2-Dichloropropane-d6	6.685	67	29908	4.401	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.000%
41) Toluene-d8	7.891	98	81307	3.981	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.600%
43) trans-1,3-Dichloroprop...	8.174	79	10350	4.754	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	95.000%
46) 2-Hexanone-d5	8.627	63	46335	52.551	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.100%
56) 1,1,2,2-Tetrachloroeth...	10.749	84	22228	5.021	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.400%
66) 1,2-Dichlorobenzene-d4	12.187	152	29814	4.453	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	89.000%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.599	62	5829	1.379	ug/L	95
10) 1,1,2-Trichloro-1,2,2-...	2.576	101	98222	22.284	ug/L	98
12) 1,1-Dichloroethene	2.576	96	227202	61.483	ug/L #	62
16) Methylene chloride	3.036	84	558259	106.609	ug/L	98
17) Methyl tert-butyl Ether	3.354	73	1583	0.160	ug/L #	36
18) trans-1,2-Dichloroethene	3.348	96	2503	0.648	ug/L	97
19) 1,1-Dichloroethane	3.859	63	29045	3.347	ug/L	96
22) cis-1,2-Dichloroethene	4.653	96	935554	196.044	ug/L	95
25) Chloroform	5.078	83	185970	20.437	ug/L	95
27) 1,2-Dichloroethane	5.798	62	745	0.144	ug/L #	77
29) 1,1,1-Trichloroethane	5.309	97	21404	2.916	ug/L	96
30) Cyclohexane	5.383	56	1902	0.297	ug/L #	86
31) Carbon tetrachloride	5.518	117	13784	2.206	ug/L	99
33) Benzene	5.772	78	7997	0.429	ug/L	100
35) Methylcyclohexane	6.560	83	327330	48.323	ug/L #	1
37) 1,2-Dichloropropane	6.688	63	3530	0.678	ug/L #	91
38) Bromodichloromethane	7.100	83	3284	0.550	ug/L	97
42) Toluene	7.962	91	56373	2.862	ug/L	98
45) 1,1,2-Trichloroethane	8.396	97	3793	1.156	ug/L	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

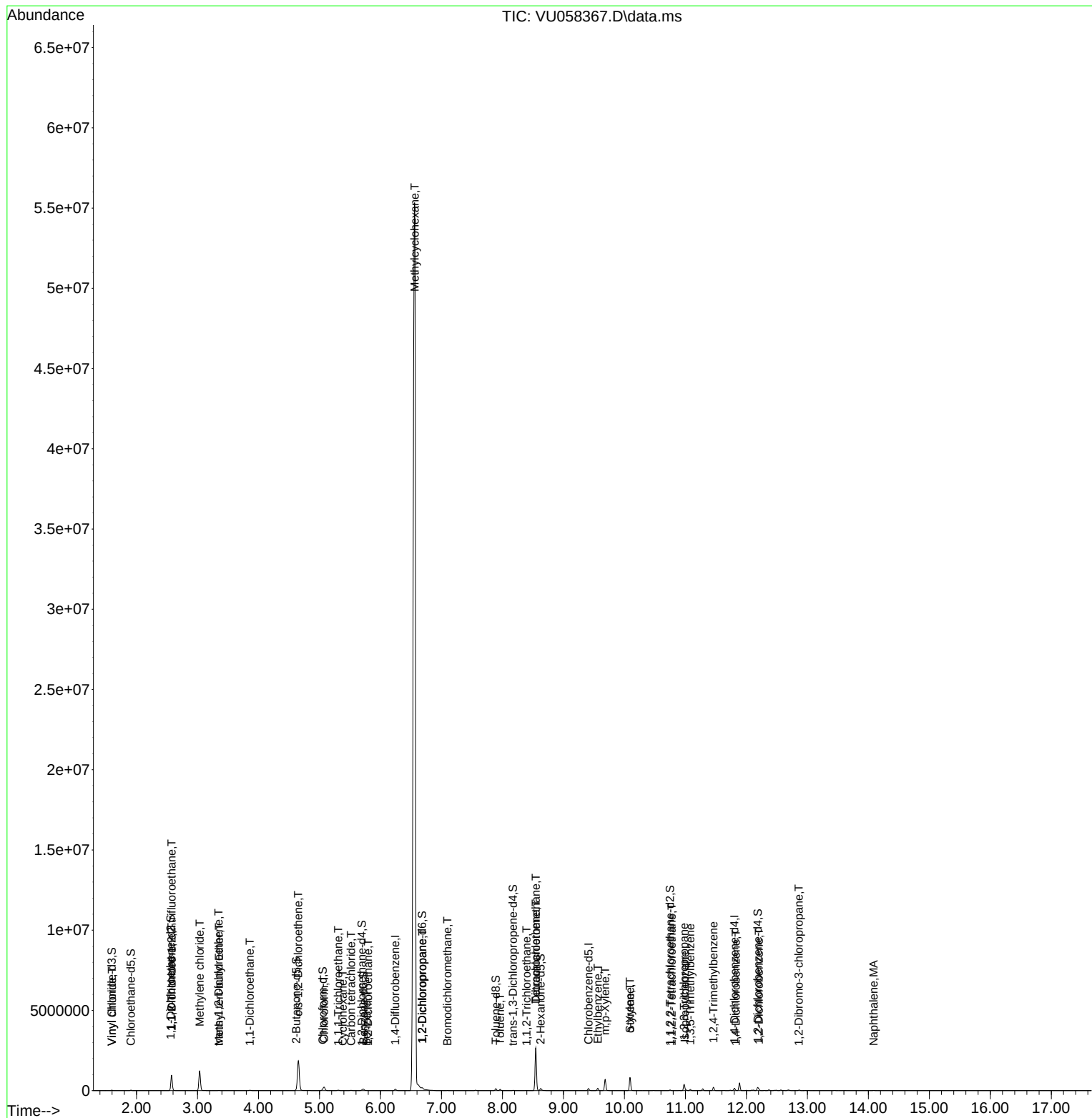
47) Tetrachloroethene	8.547	164	541418	166.422	ug/L	97
49) Dibromochloromethane	8.547	129	551333	153.597	ug/L #	10
52) Ethylbenzene	9.563	91	101616	4.620	ug/L	99
53) m,p-Xylene	9.685	106	192397	24.550	ug/L	97
54) o-Xylene	10.093	106	212955	26.919	ug/L	99
55) Styrene	10.093	104	10488	0.840	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.775	83	831	0.215	ug/L #	78
60) Isopropylbenzene	10.991	105	37609	1.741	ug/L	93
61) 1,2,3-Trichloropropane	10.978	75	6263	2.080	ug/L #	1
62) 1,3,5-Trimethylbenzene	11.081	105	38881	2.145	ug/L	98
63) 1,2,4-Trimethylbenzene	11.460	105	112633	6.257	ug/L	97
65) 1,4-Dichlorobenzene	11.830	146	3628	0.373	ug/L	97
67) 1,2-Dichlorobenzene	12.206	146	28280	3.040	ug/L	95
68) 1,2-Dibromo-3-chloropr...	12.859	75	179	0.394	ug/L #	4
71) Naphthalene	14.087	128	15037	2.105	ug/L	98

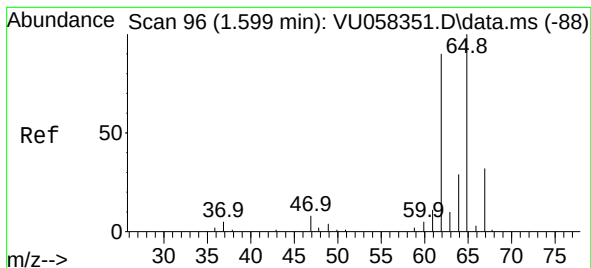
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.379 ug/L

RT: 1.599 min Scan# 90

Delta R.T. 0.000 min

Lab File: VU058367.D

Acq: 03 Apr 2024 16:31

Instrument :

MSVOA_U

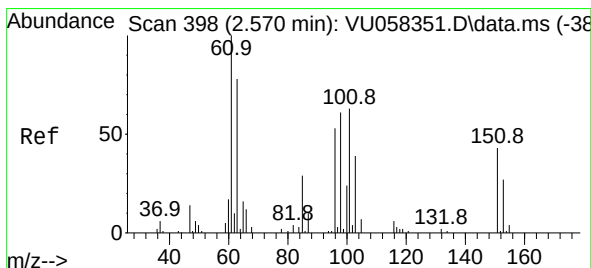
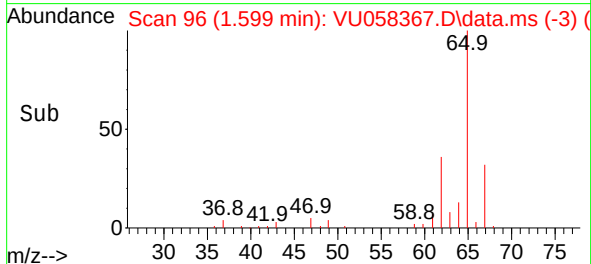
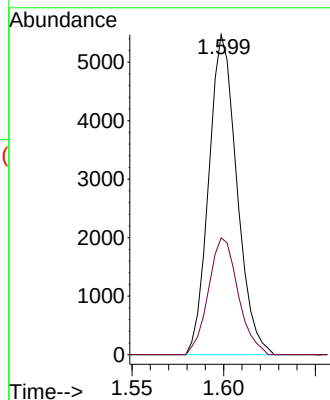
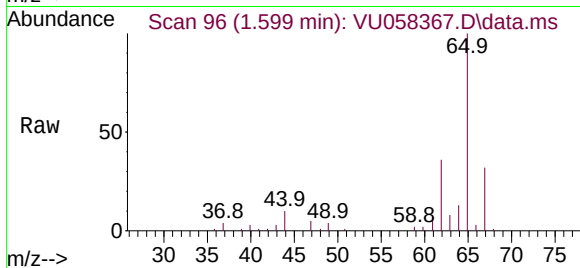
ClientSampleId :

Tgt Ion: 62 Resp: 5829

Ion Ratio Lower Upper

62 100

64 36.5 23.4 43.6



#10

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

Concen: 22.284 ug/L

RT: 2.576 min Scan# 400

Delta R.T. 0.006 min

Lab File: VU058367.D

Acq: 03 Apr 2024 16:31

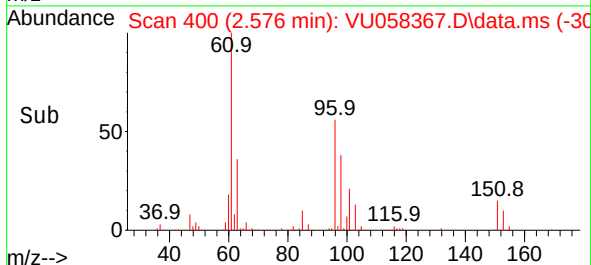
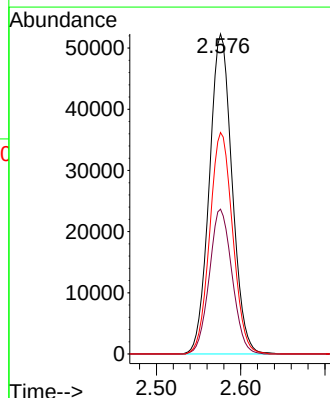
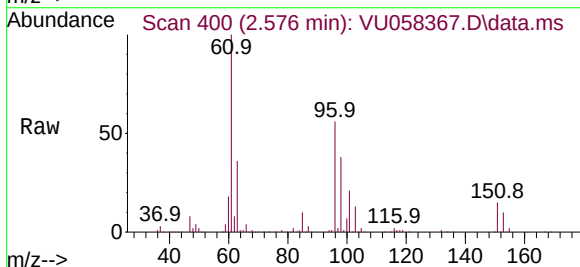
Tgt Ion:101 Resp: 98222

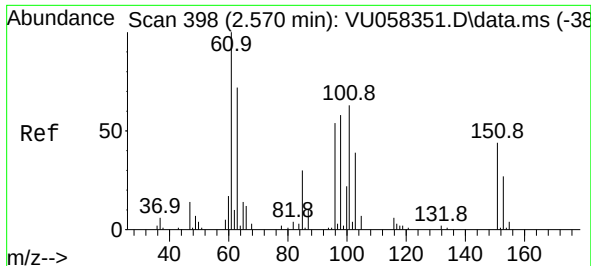
Ion Ratio Lower Upper

101 100

85 45.1 37.9 56.9

151 69.8 55.3 82.9

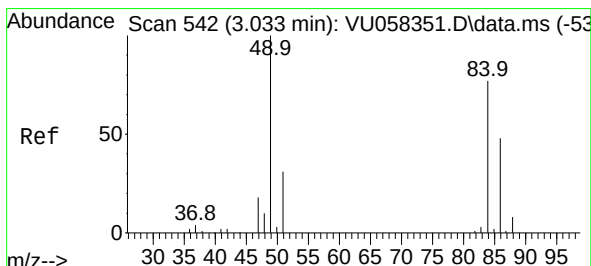
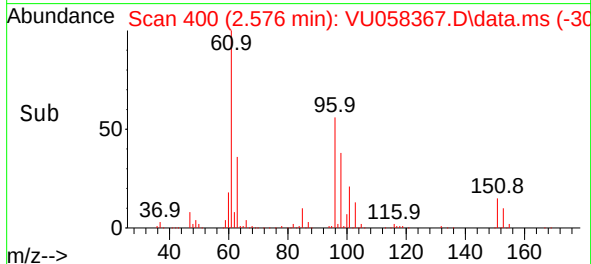
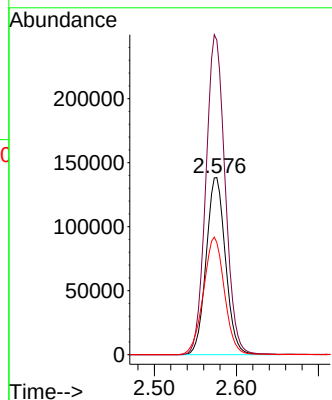
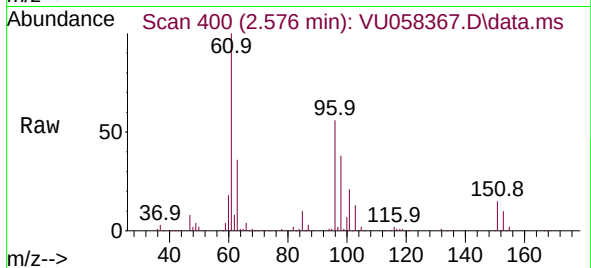




#12
1,1-Dichloroethene
Concen: 61.483 ug/L
RT: 2.576 min Scan# 40
Delta R.T. 0.006 min
Lab File: VU058367.D
Acq: 03 Apr 2024 16:31

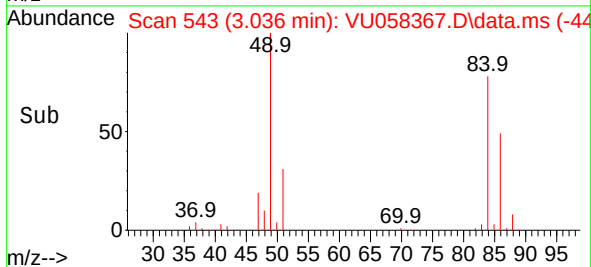
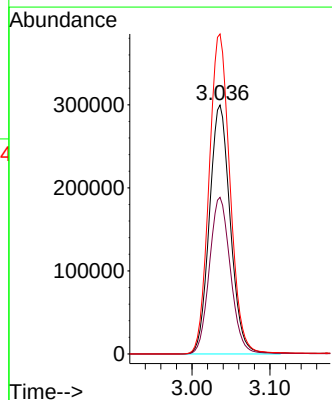
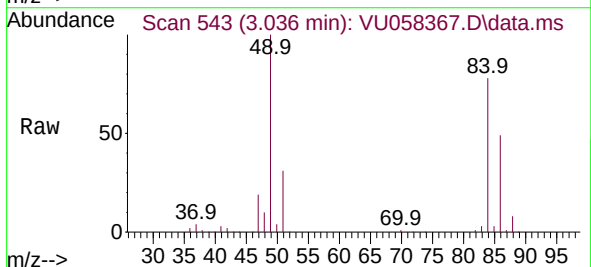
Instrument :
MSVOA_U
ClientSampleId :

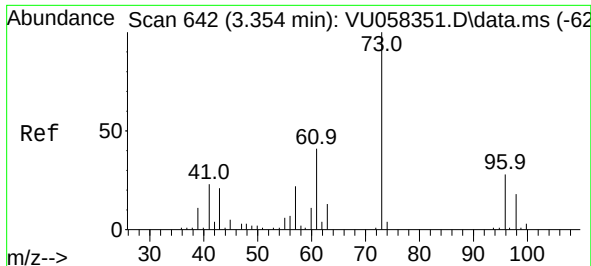
Tgt Ion: 96 Resp: 227202
Ion Ratio Lower Upper
96 100
61 177.6 128.1 237.9
63 63.4 116.8 217.0#



#16
Methylene chloride
Concen: 106.609 ug/L
RT: 3.036 min Scan# 543
Delta R.T. 0.003 min
Lab File: VU058367.D
Acq: 03 Apr 2024 16:31

Tgt Ion: 84 Resp: 558259
Ion Ratio Lower Upper
84 100
86 62.9 45.6 84.6
49 128.5 88.3 163.9





#17

Methyl tert-butyl Ether

Concen: 0.160 ug/L

RT: 3.354 min Scan# 642

Delta R.T. 0.000 min

Lab File: VU058367.D

Acq: 03 Apr 2024 16:31

Instrument :

MSVOA_U

ClientSampleId :

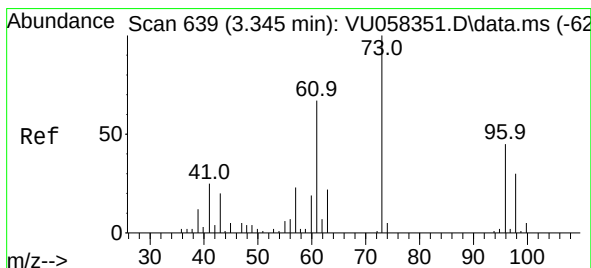
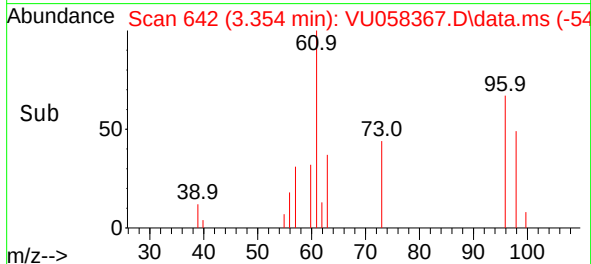
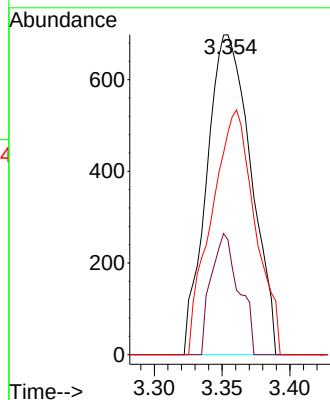
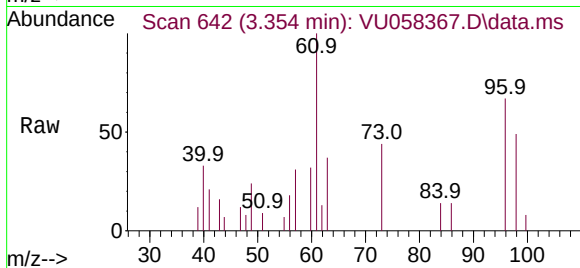
Tgt Ion: 73 Resp: 1583

Ion Ratio Lower Upper

73 100

43 23.7 15.5 23.3#

57 75.5 18.0 27.0#



#18

trans-1,2-Dichloroethene

Concen: 0.648 ug/L

RT: 3.348 min Scan# 640

Delta R.T. 0.003 min

Lab File: VU058367.D

Acq: 03 Apr 2024 16:31

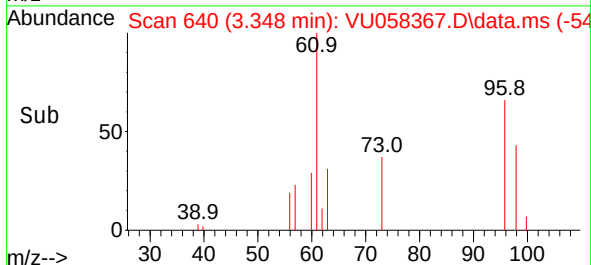
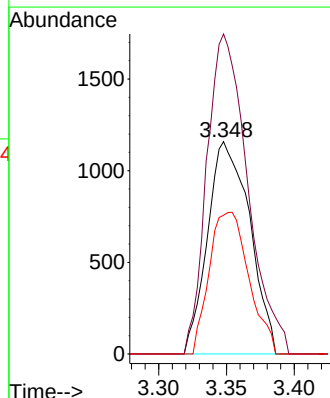
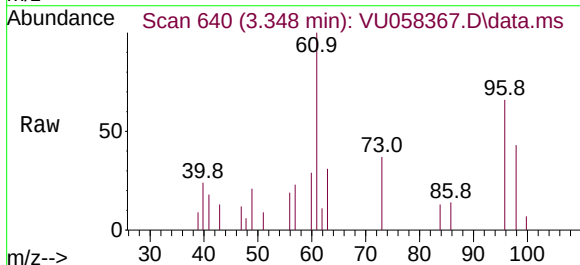
Tgt Ion: 96 Resp: 2503

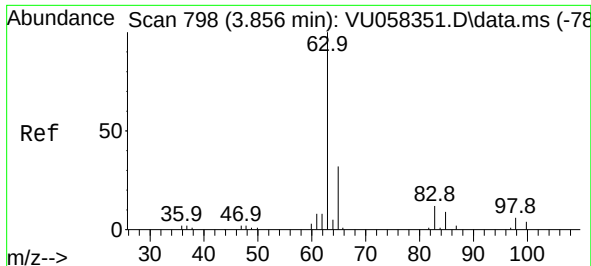
Ion Ratio Lower Upper

96 100

61 150.6 102.5 190.3

98 65.3 44.0 81.8

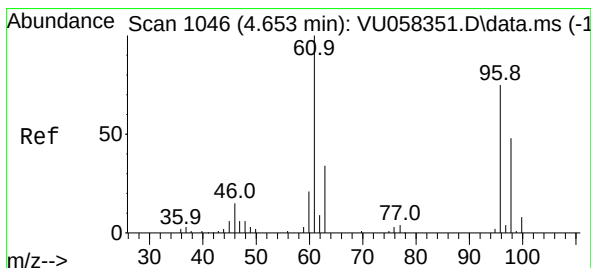
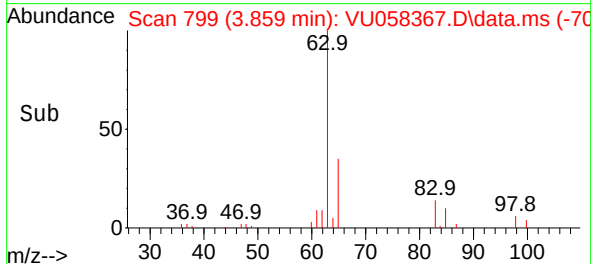
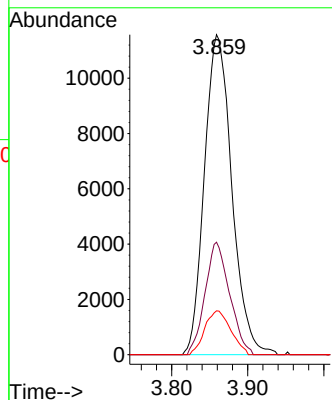
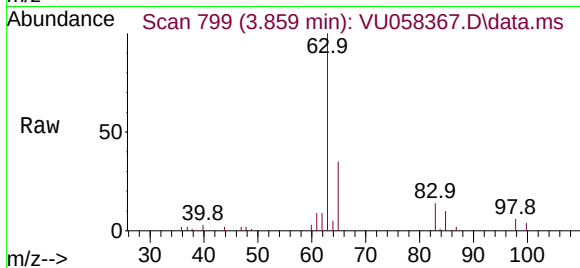




#19
1,1-Dichloroethane
Concen: 3.347 ug/L
RT: 3.859 min Scan# 798
Delta R.T. 0.003 min
Lab File: VU058367.D
Acq: 03 Apr 2024 16:31

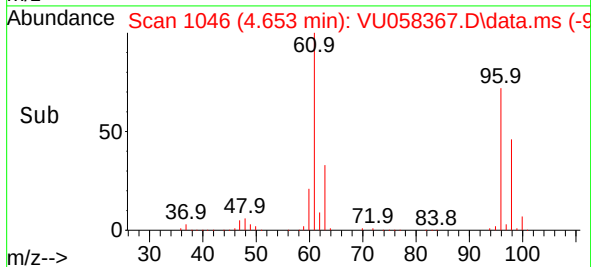
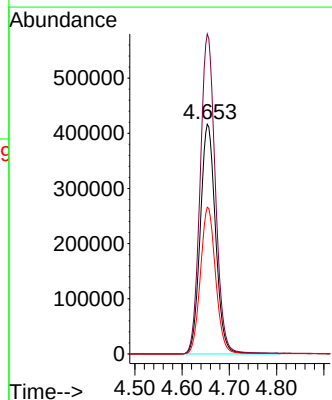
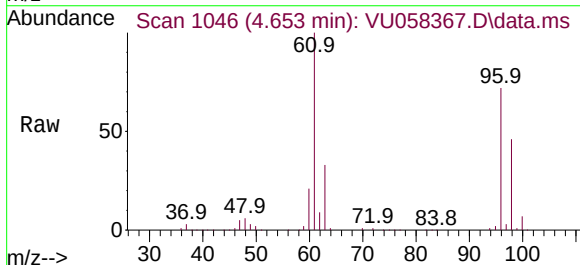
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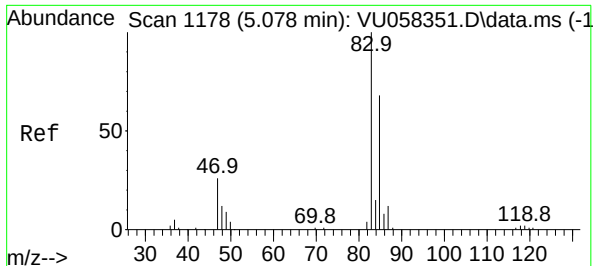
Tgt Ion: 63 Resp: 29045
Ion Ratio Lower Upper
63 100
65 35.1 22.3 41.5
83 13.7 10.0 18.6



#22
cis-1,2-Dichloroethene
Concen: 196.044 ug/L
RT: 4.653 min Scan# 1046
Delta R.T. 0.000 min
Lab File: VU058367.D
Acq: 03 Apr 2024 16:31

Tgt Ion: 96 Resp: 935554
Ion Ratio Lower Upper
96 100
61 139.3 92.8 172.4
98 63.9 43.2 80.2





#25

Chloroform

Concen: 20.437 ug/L

RT: 5.078 min Scan# 1178

Delta R.T. 0.000 min

Lab File: VU058367.D

Acq: 03 Apr 2024 16:31

Instrument :

MSVOA_U

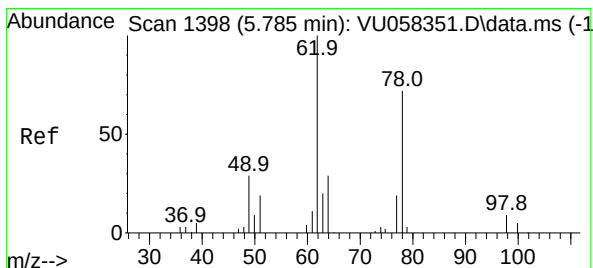
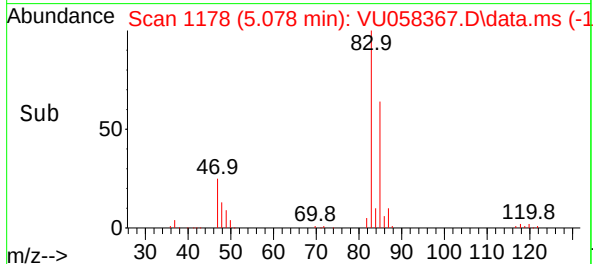
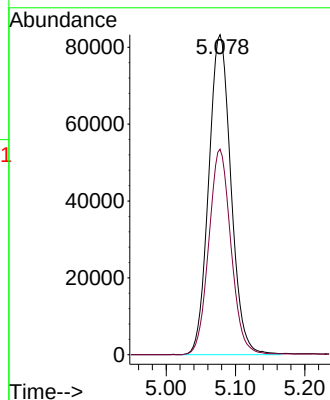
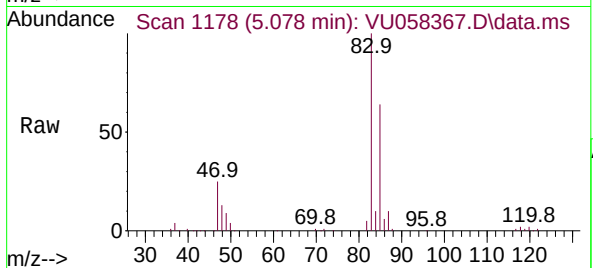
ClientSampleId :

Tgt Ion: 83 Resp: 185970

Ion Ratio Lower Upper

83 100

85 64.2 47.9 88.9



#27

1,2-Dichloroethane

Concen: 0.144 ug/L

RT: 5.798 min Scan# 1402

Delta R.T. 0.013 min

Lab File: VU058367.D

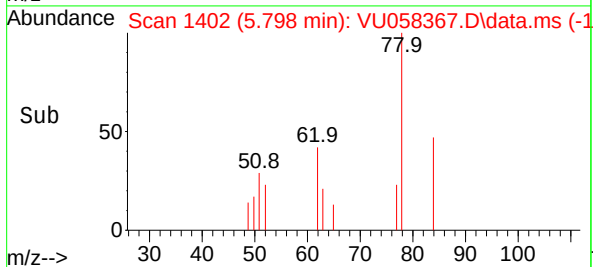
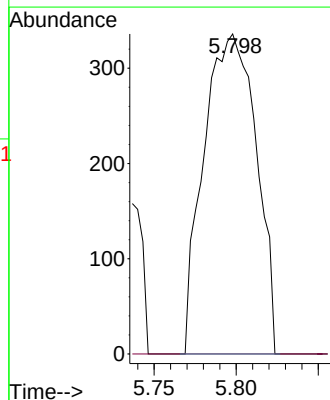
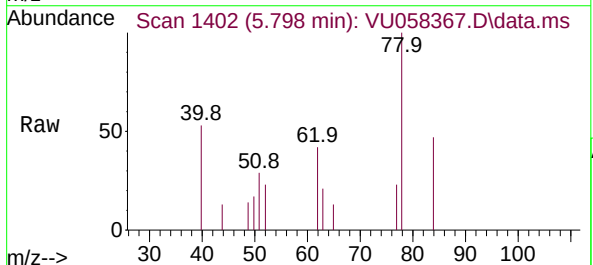
Acq: 03 Apr 2024 16:31

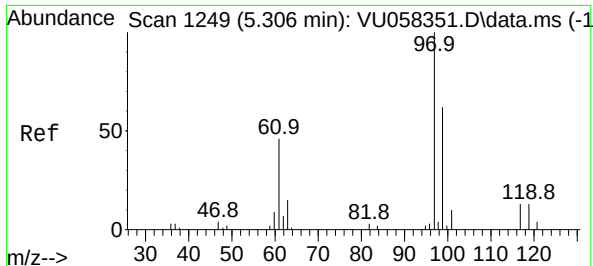
Tgt Ion: 62 Resp: 745

Ion Ratio Lower Upper

62 100

98 0.0 6.6 10.0#

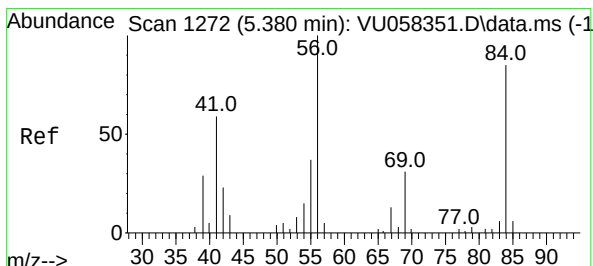
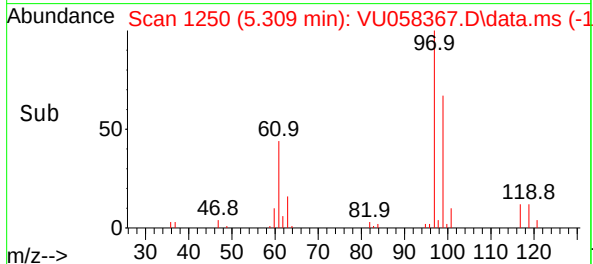
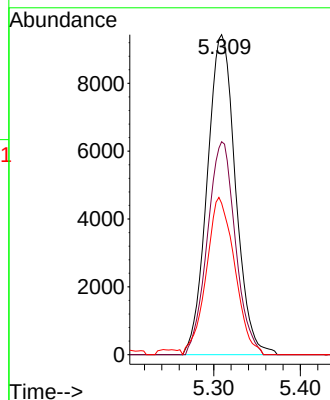
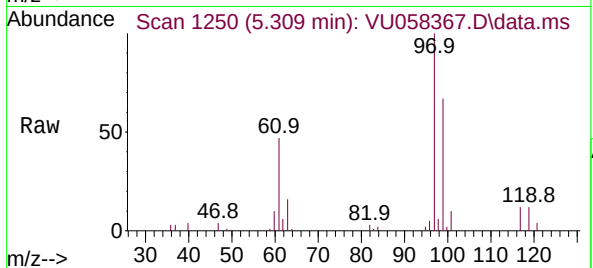




#29
1,1,1-Trichloroethane
Concen: 2.916 ug/L
RT: 5.309 min Scan# 1249
Delta R.T. 0.003 min
Lab File: VU058367.D
Acq: 03 Apr 2024 16:31

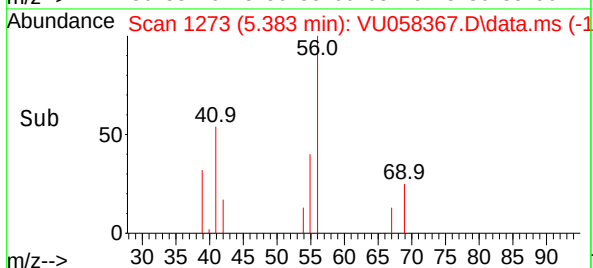
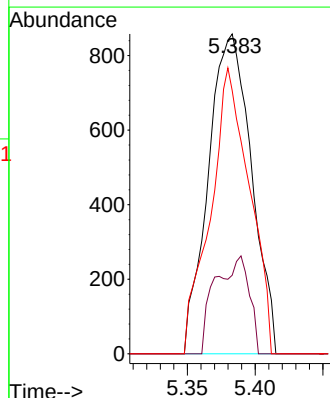
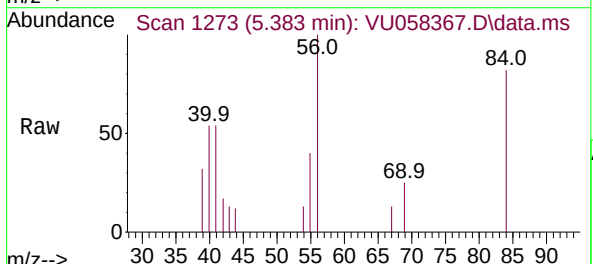
Instrument :
MSVOA_U
ClientSampleId :

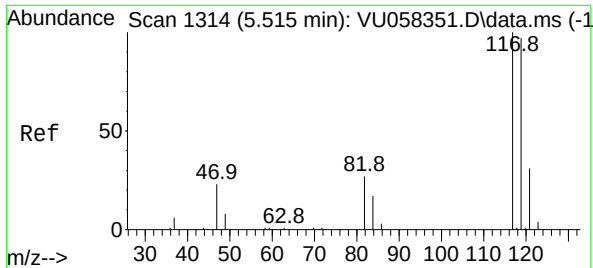
Tgt Ion:	97	Resp:	21404
Ion	Ratio	Lower	Upper
97	100		
99	65.7	50.5	75.7
61	49.3	36.3	54.5



#30
Cyclohexane
Concen: 0.297 ug/L
RT: 5.383 min Scan# 1273
Delta R.T. 0.003 min
Lab File: VU058367.D
Acq: 03 Apr 2024 16:31

Tgt Ion:	56	Resp:	1902
Ion	Ratio	Lower	Upper
56	100		
69	11.4	24.2	36.2
84	80.8	69.7	104.5

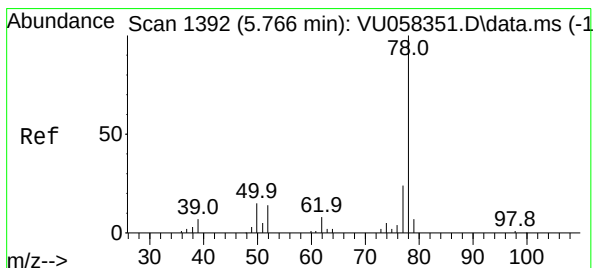
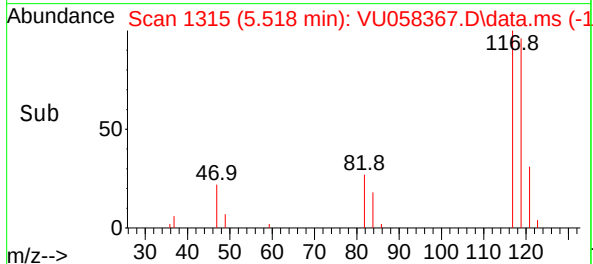
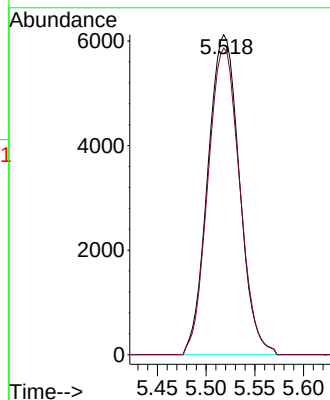
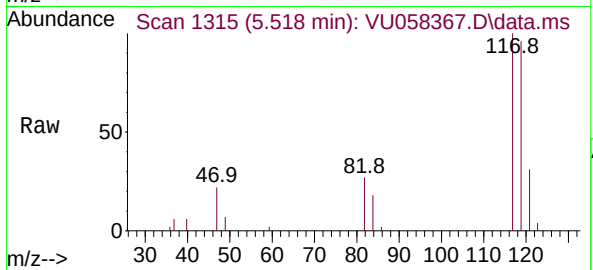




#31
Carbon tetrachloride
Concen: 2.206 ug/L
RT: 5.518 min Scan# 1314
Delta R.T. 0.003 min
Lab File: VU058367.D
Acq: 03 Apr 2024 16:31

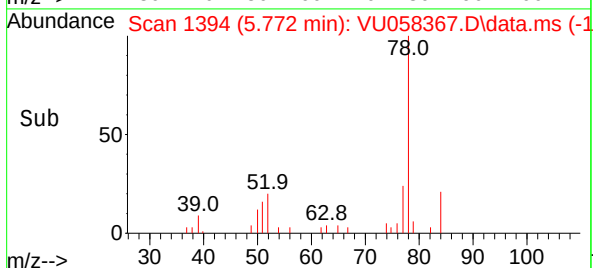
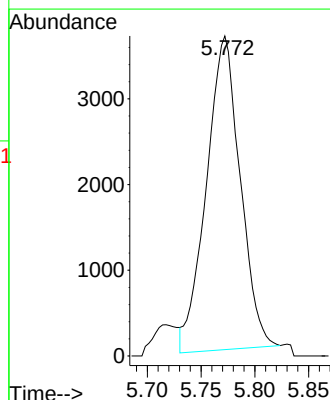
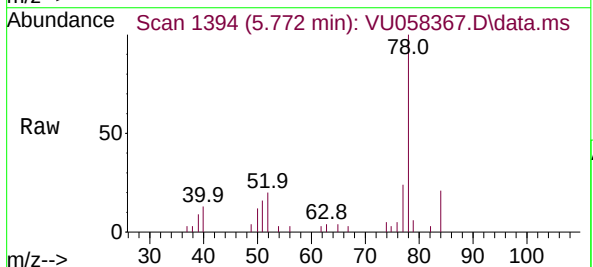
Instrument :
MSVOA_U
ClientSampleId :

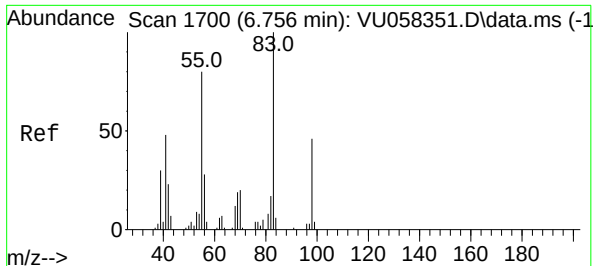
Tgt Ion:117 Resp: 13784
Ion Ratio Lower Upper
117 100
119 96.2 78.1 117.1



#33
Benzene
Concen: 0.429 ug/L
RT: 5.772 min Scan# 1394
Delta R.T. 0.006 min
Lab File: VU058367.D
Acq: 03 Apr 2024 16:31

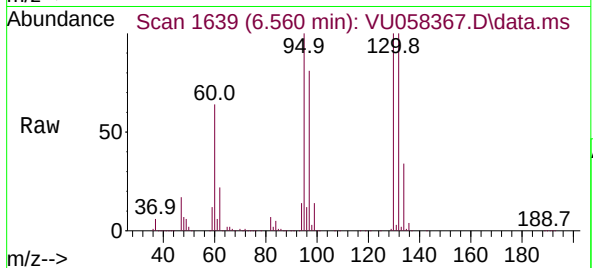
Tgt Ion: 78 Resp: 7997



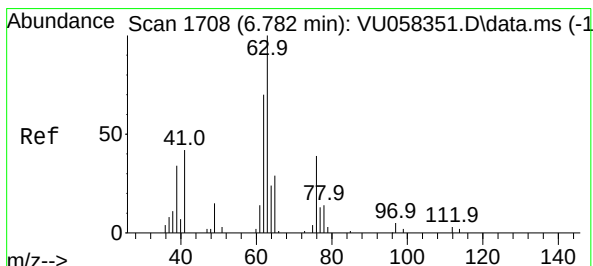
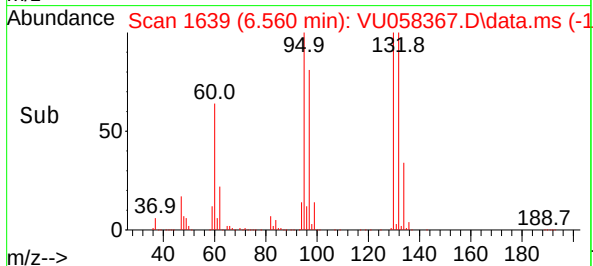
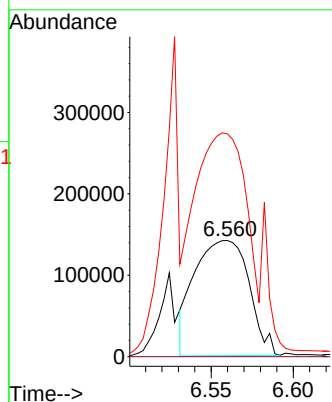


#35
Methylcyclohexane
Concen: 48.323 ug/L
RT: 6.560 min Scan# 1639
Delta R.T. -0.196 min
Lab File: VU058367.D
Acq: 03 Apr 2024 16:31

Instrument :
MSVOA_U
ClientSampleId :

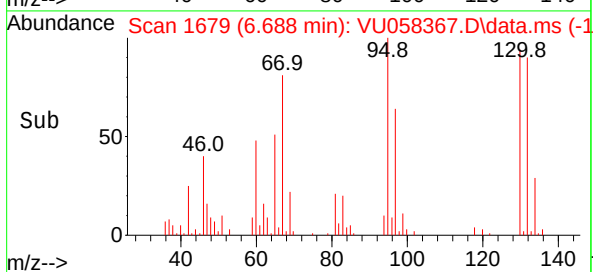
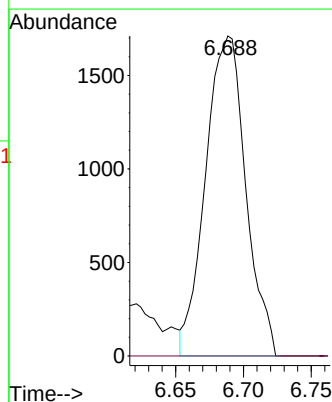
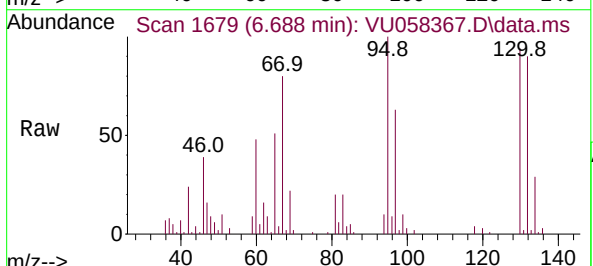


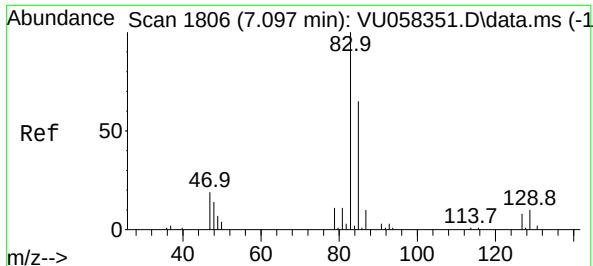
Tgt Ion: 83 Resp: 327330
Ion Ratio Lower Upper
83 100
55 0.0 62.7 94.1#
98 180.2 37.3 55.9#



#37
1,2-Dichloropropane
Concen: 0.678 ug/L
RT: 6.688 min Scan# 1679
Delta R.T. -0.093 min
Lab File: VU058367.D
Acq: 03 Apr 2024 16:31

Tgt Ion: 63 Resp: 3530
Ion Ratio Lower Upper
63 100
112 0.6 2.7 4.1#





#38

Bromodichloromethane

Concen: 0.550 ug/L

RT: 7.100 min Scan# 1806

Delta R.T. 0.003 min

Lab File: VU058367.D

Acq: 03 Apr 2024 16:31

Instrument :

MSVOA_U

ClientSampleId :

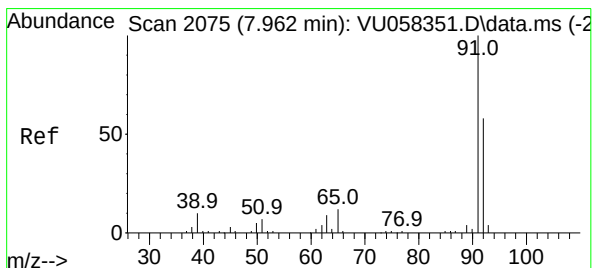
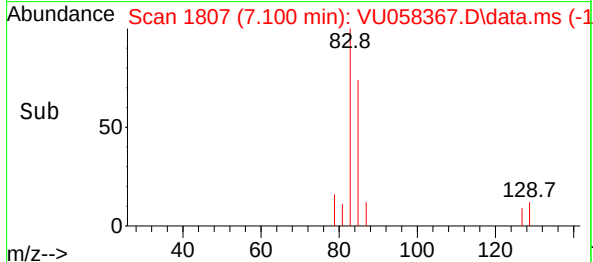
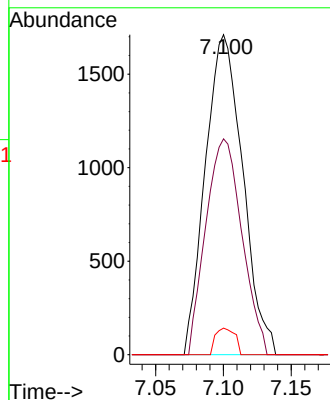
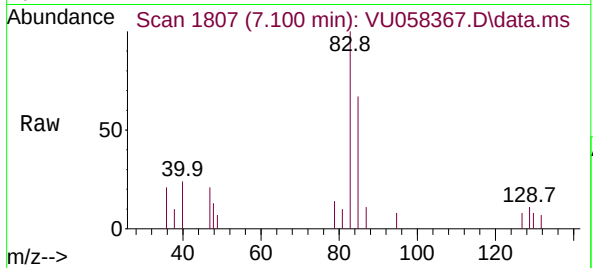
Tgt Ion: 83 Resp: 3284

Ion Ratio Lower Upper

83 100

85 67.4 45.6 84.8

127 8.3 7.1 10.7



#42

Toluene

Concen: 2.862 ug/L

RT: 7.962 min Scan# 2075

Delta R.T. 0.000 min

Lab File: VU058367.D

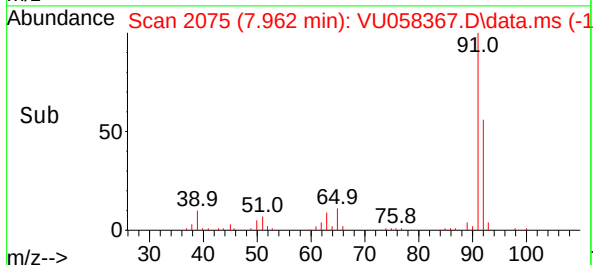
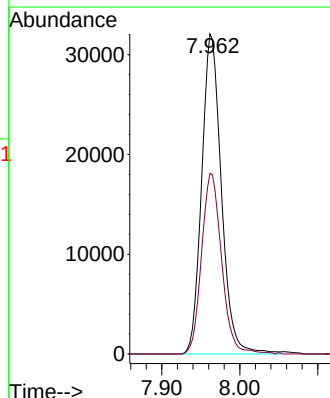
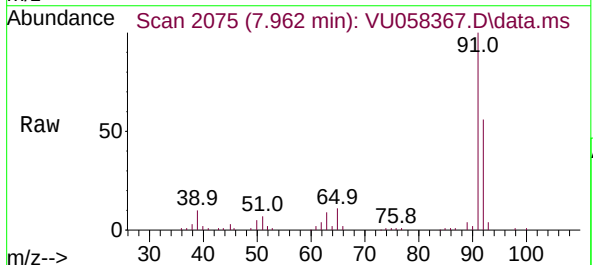
Acq: 03 Apr 2024 16:31

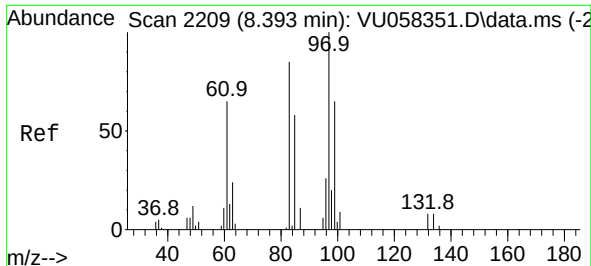
Tgt Ion: 91 Resp: 56373

Ion Ratio Lower Upper

91 100

92 56.4 40.7 75.5





#45

1,1,2-Trichloroethane

Concen: 1.156 ug/L

RT: 8.396 min Scan# 2209

Delta R.T. 0.003 min

Lab File: VU058367.D

Acq: 03 Apr 2024 16:31

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion: 97 Resp: 3793

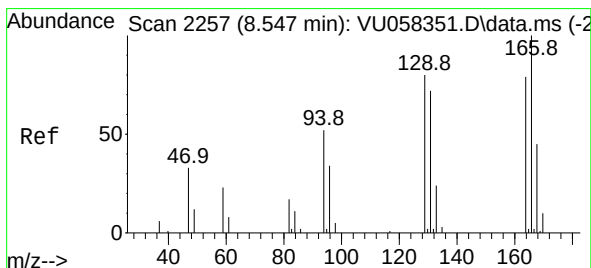
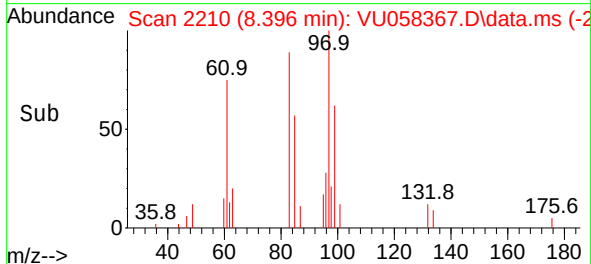
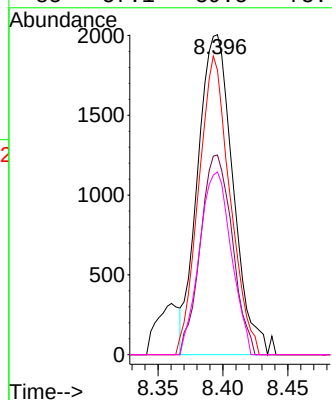
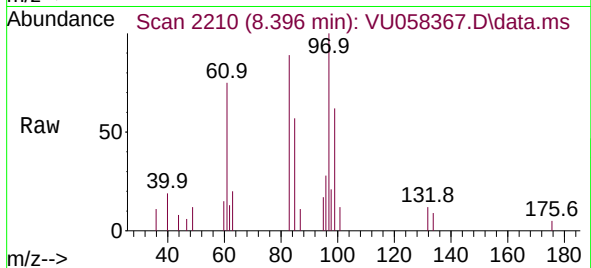
Ion Ratio Lower Upper

97 100

99 62.4 44.5 82.7

83 88.9 64.1 119.1

85 57.1 39.5 73.4



#47

Tetrachloroethene

Concen: 166.422 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. 0.000 min

Lab File: VU058367.D

Acq: 03 Apr 2024 16:31

Tgt Ion:164 Resp: 541418

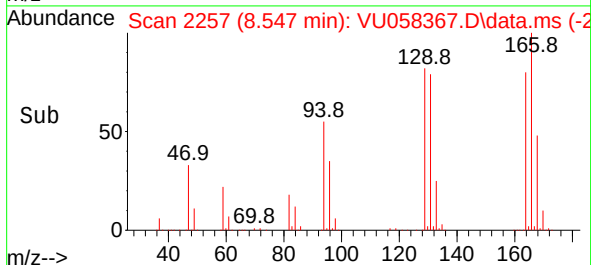
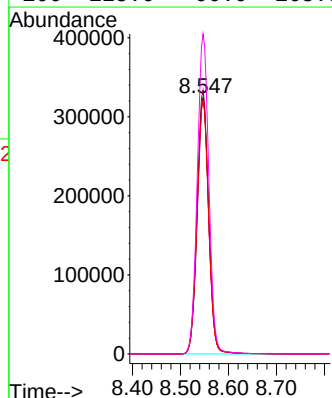
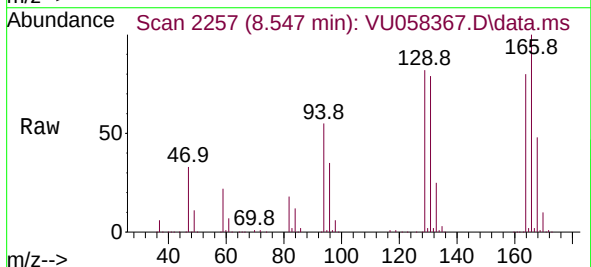
Ion Ratio Lower Upper

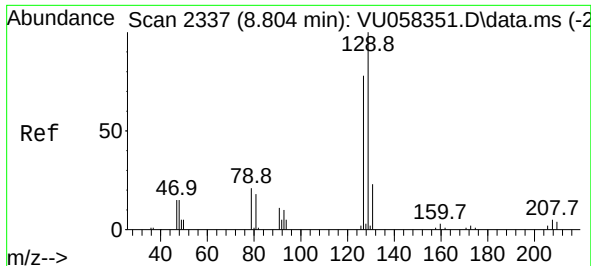
164 100

129 103.0 71.3 132.3

131 99.0 70.8 131.4

166 125.0 90.9 168.9





#49

Dibromochloromethane

Concen: 153.597 ug/L

RT: 8.547 min Scan# 21

Delta R.T. -0.257 min MSVOA_U

Lab File: VU058367.D

Acq: 03 Apr 2024 16:31

Instrument :

MSVOA_U

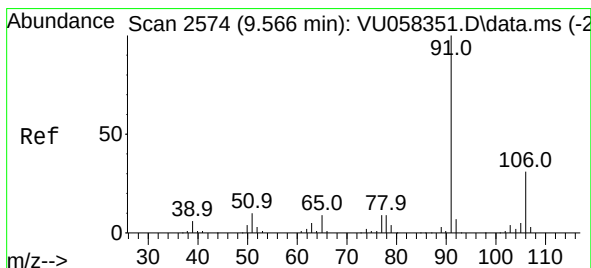
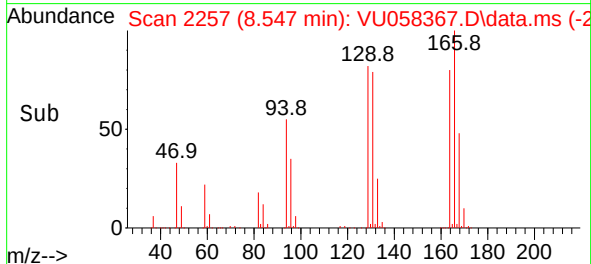
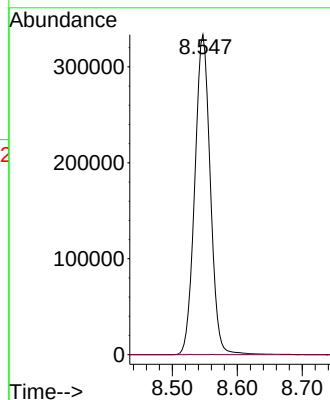
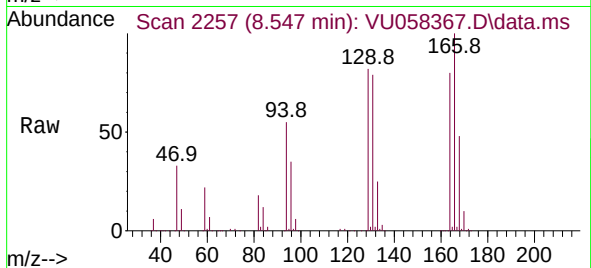
ClientSampleId :

Tgt Ion:129 Resp: 551333

Ion Ratio Lower Upper

129 100

127 0.0 55.7 103.5#



#52

Ethylbenzene

Concen: 4.620 ug/L

RT: 9.563 min Scan# 2573

Delta R.T. -0.003 min

Lab File: VU058367.D

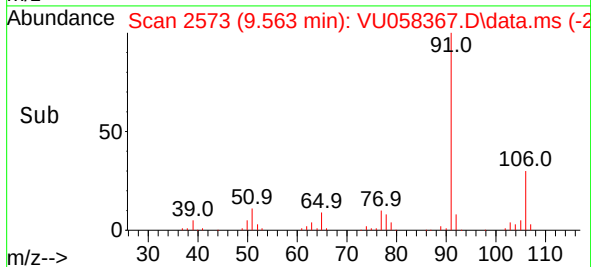
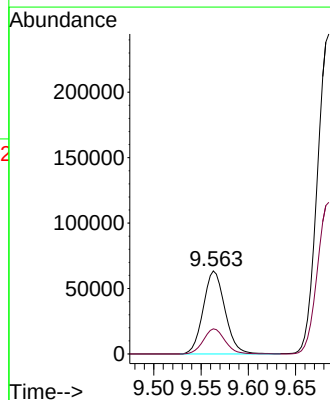
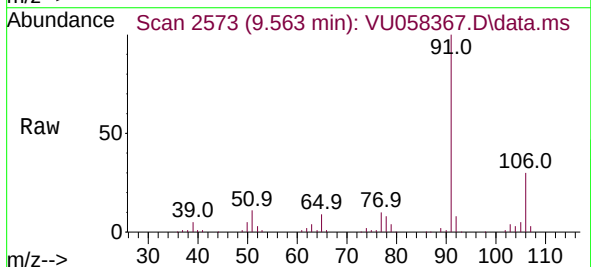
Acq: 03 Apr 2024 16:31

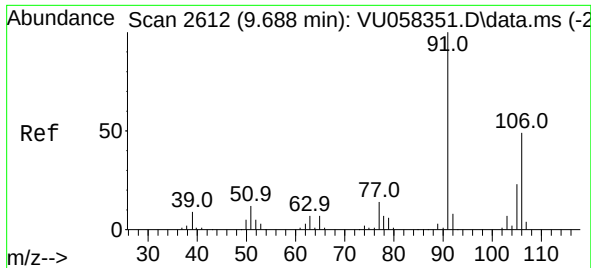
Tgt Ion: 91 Resp: 101616

Ion Ratio Lower Upper

91 100

106 30.2 20.6 38.2

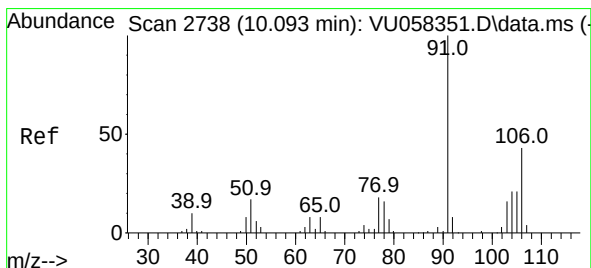
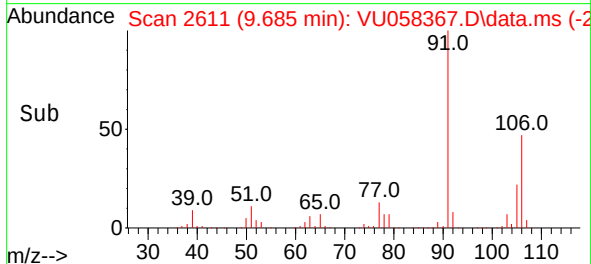
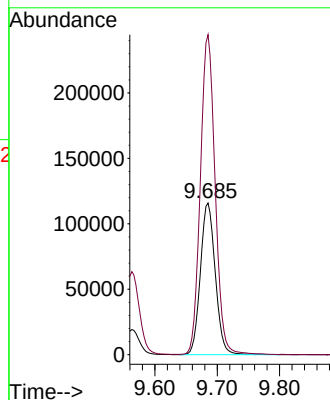
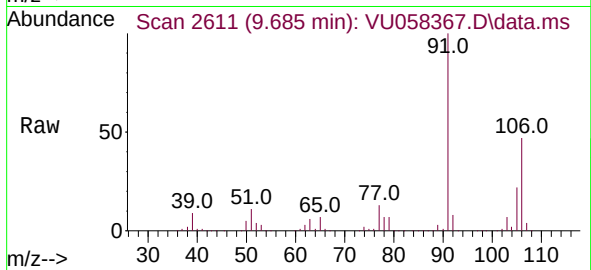




#53
m,p-Xylene
Concen: 24.550 ug/L
RT: 9.685 min Scan# 2611
Delta R.T. -0.003 min
Lab File: VU058367.D
Acq: 03 Apr 2024 16:31

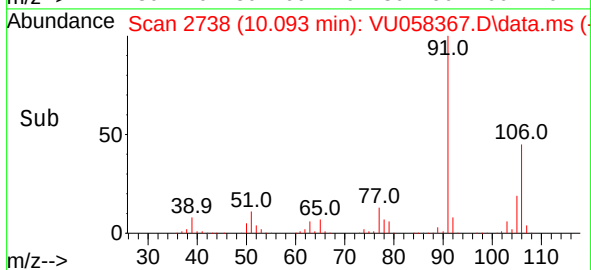
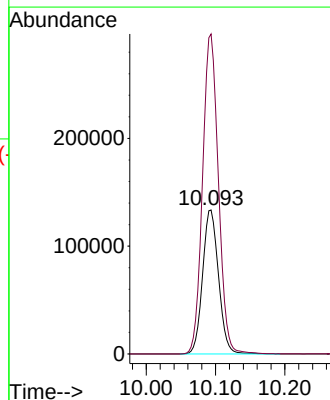
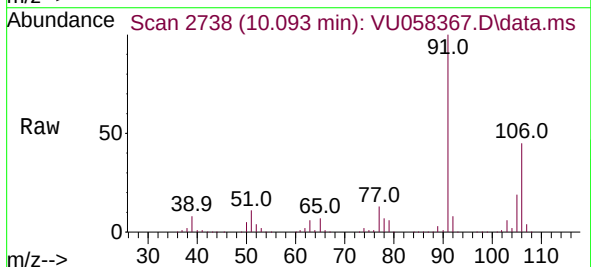
Instrument :
MSVOA_U
ClientSampleId :

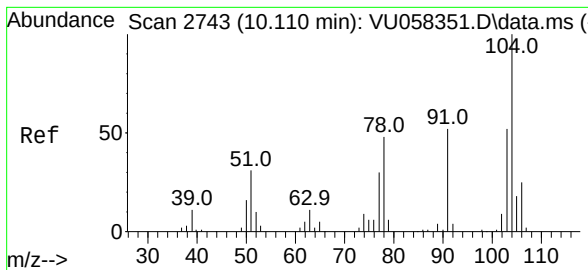
Tgt Ion:106 Resp: 192397
Ion Ratio Lower Upper
106 100
91 211.0 151.0 280.4



#54
o-Xylene
Concen: 26.919 ug/L
RT: 10.093 min Scan# 2738
Delta R.T. 0.000 min
Lab File: VU058367.D
Acq: 03 Apr 2024 16:31

Tgt Ion:106 Resp: 212955
Ion Ratio Lower Upper
106 100
91 222.3 154.3 286.7





#55

Styrene

Concen: 0.840 ug/L

RT: 10.093 min Scan# 21

Delta R.T. -0.016 min

Lab File: VU058367.D

Acq: 03 Apr 2024 16:31

Instrument :

MSVOA_U

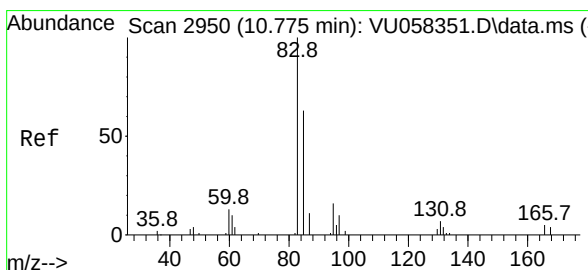
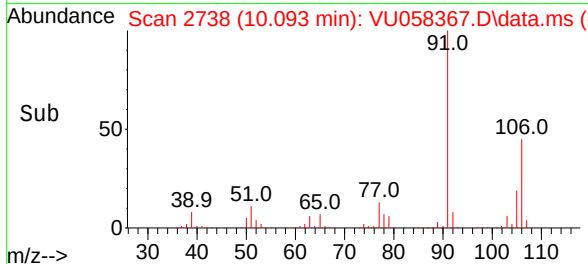
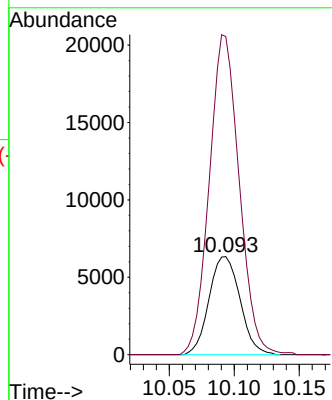
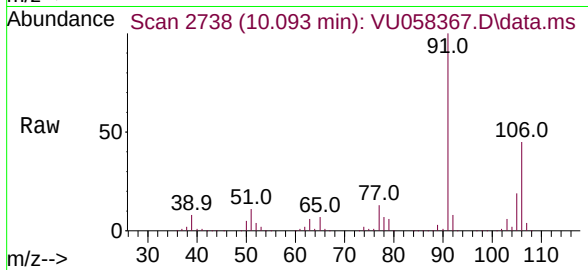
ClientSampleId :

Tgt Ion:104 Resp: 10488

Ion Ratio Lower Upper

104 100

78 324.6 34.5 64.1#



#57

1,1,2,2-Tetrachloroethane

Concen: 0.215 ug/L

RT: 10.775 min Scan# 2950

Delta R.T. 0.000 min

Lab File: VU058367.D

Acq: 03 Apr 2024 16:31

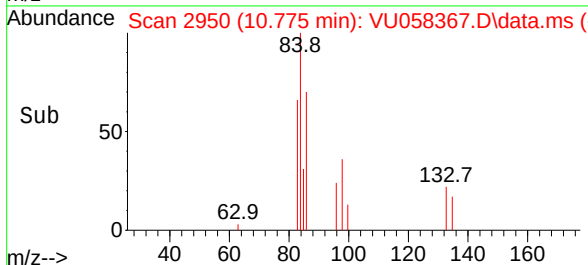
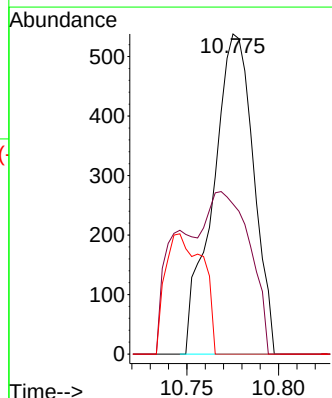
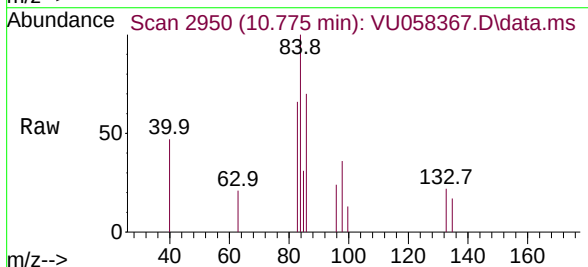
Tgt Ion: 83 Resp: 831

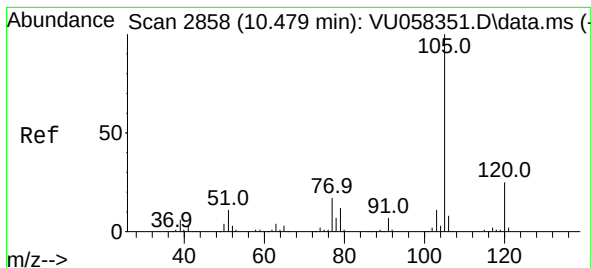
Ion Ratio Lower Upper

83 100

85 46.8 44.7 82.9

131 0.0 7.0 10.6#





#60

Isopropylbenzene

Concen: 1.741 ug/L

RT: 10.991 min Scan# 3017

Delta R.T. 0.511 min

Lab File: VU058367.D

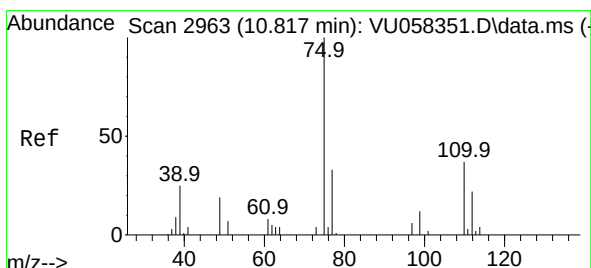
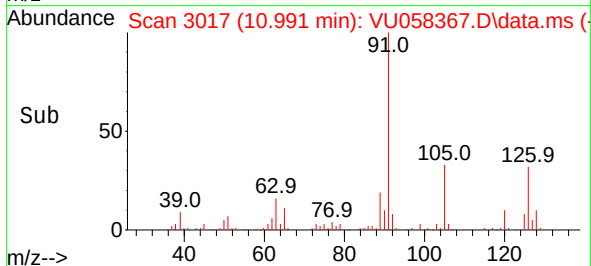
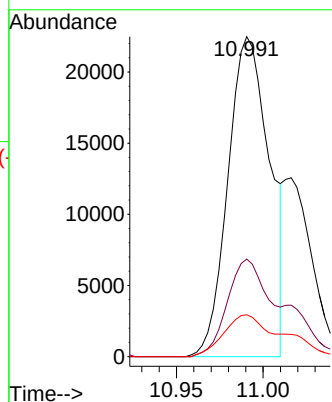
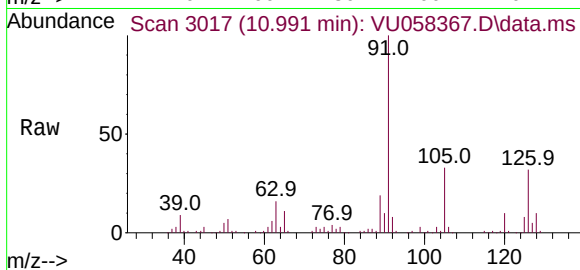
Acq: 03 Apr 2024 16:31

Instrument :

MSVOA_U

ClientSampleId :

Tgt Ion:	105	Resp:	37609
Ion Ratio	Lower	Upper	
105	100		
120	30.1	20.5	30.7
77	18.5	13.2	19.8



#61

1,2,3-Trichloropropane

Concen: 2.080 ug/L

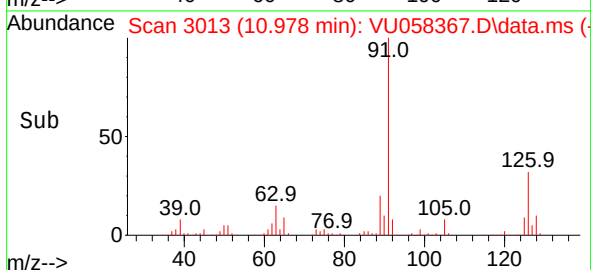
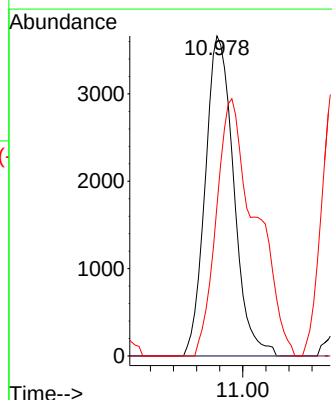
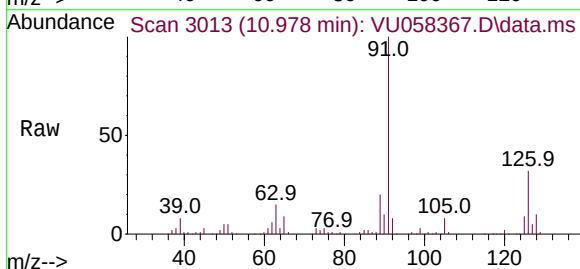
RT: 10.978 min Scan# 3013

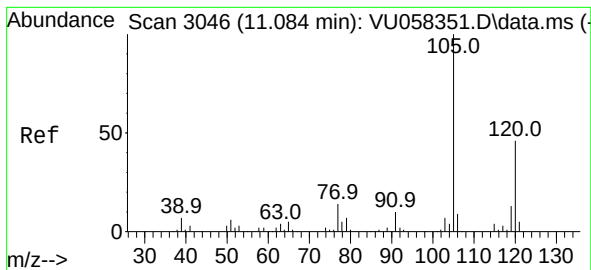
Delta R.T. 0.161 min

Lab File: VU058367.D

Acq: 03 Apr 2024 16:31

Tgt Ion:	75	Resp:	6263
Ion Ratio	Lower	Upper	
75	100		
110	0.0	28.1	42.1#
77	110.9	25.1	37.7#





#62

1,3,5-Trimethylbenzene

Concen: 2.145 ug/L

RT: 11.081 min Scan# 3046

Delta R.T. -0.003 min

Lab File: VU058367.D

Acq: 03 Apr 2024 16:31

Instrument :

MSVOA_U

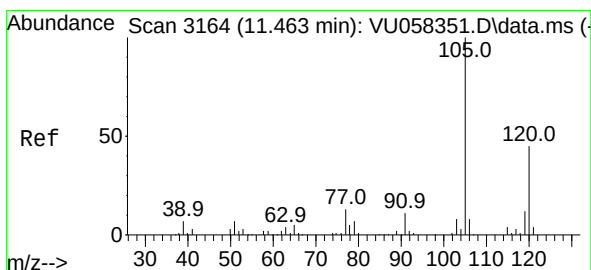
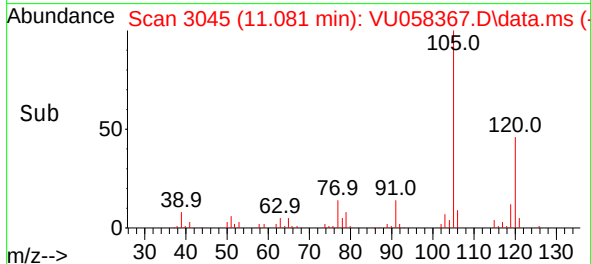
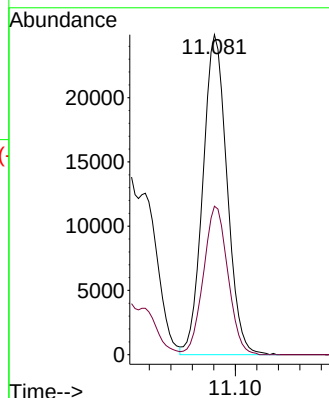
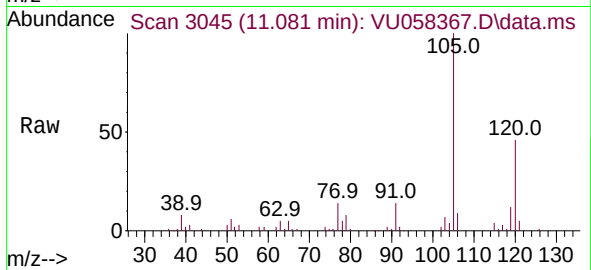
ClientSampleId :

Tgt Ion:105 Resp: 38881

Ion Ratio Lower Upper

105 100

120 46.9 36.7 55.1



#63

1,2,4-Trimethylbenzene

Concen: 6.257 ug/L

RT: 11.460 min Scan# 3163

Delta R.T. -0.003 min

Lab File: VU058367.D

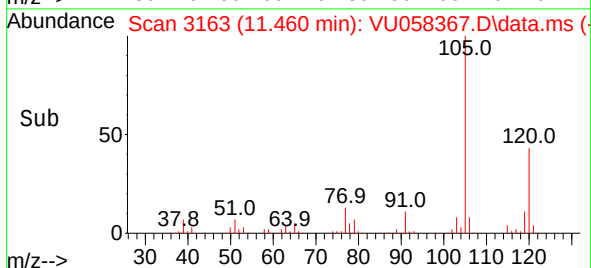
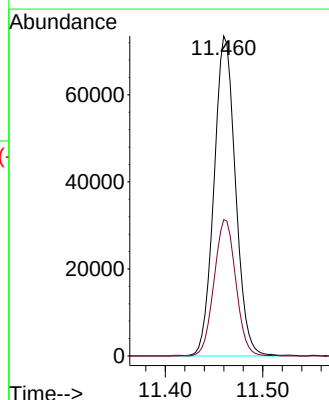
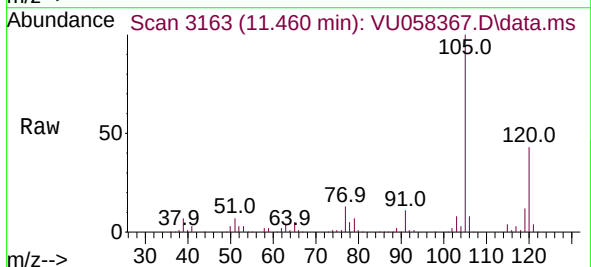
Acq: 03 Apr 2024 16:31

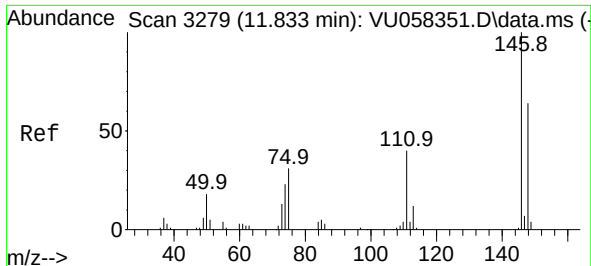
Tgt Ion:105 Resp: 112633

Ion Ratio Lower Upper

105 100

120 43.1 35.9 53.9





#65

1,4-Dichlorobenzene

Concen: 0.373 ug/L

RT: 11.830 min Scan# 3279

Delta R.T. -0.003 min

Lab File: VU058367.D

Acq: 03 Apr 2024 16:31

Instrument :

MSVOA_U

ClientSampleId :

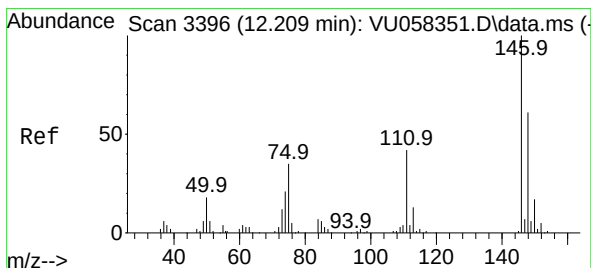
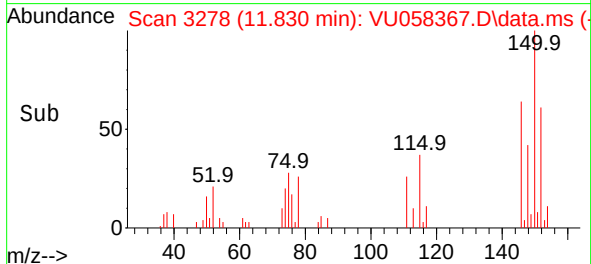
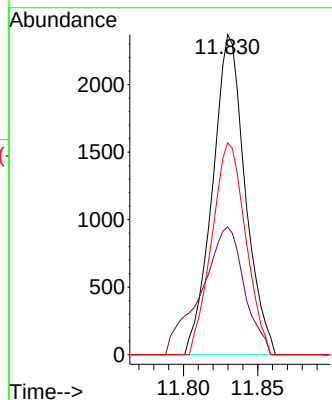
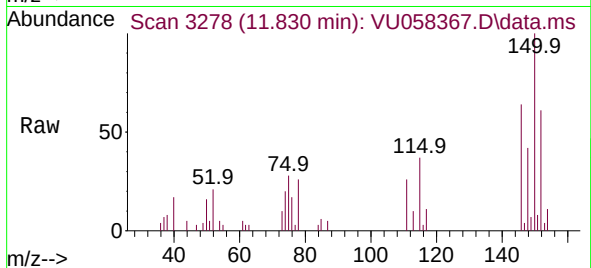
Tgt Ion:146 Resp: 3628

Ion Ratio Lower Upper

146 100

111 39.9 29.0 53.8

148 66.2 44.5 82.7



#67

1,2-Dichlorobenzene

Concen: 3.040 ug/L

RT: 12.206 min Scan# 3395

Delta R.T. -0.003 min

Lab File: VU058367.D

Acq: 03 Apr 2024 16:31

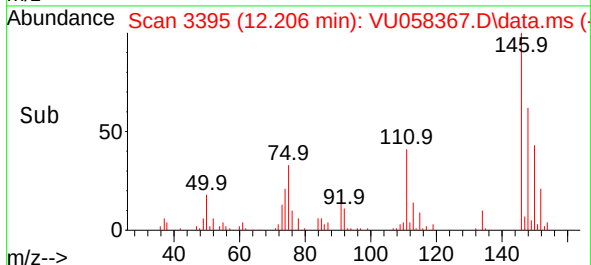
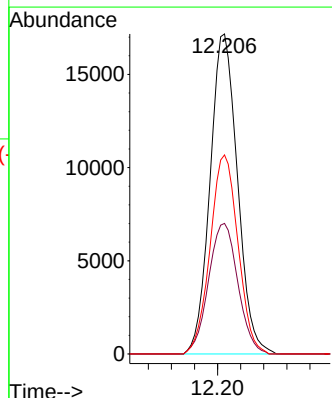
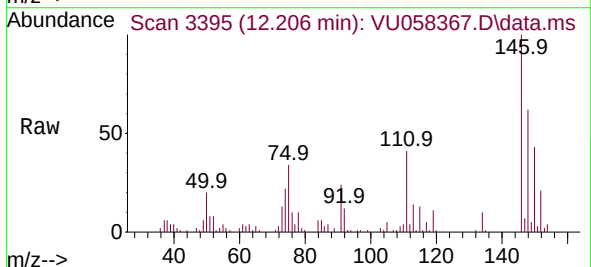
Tgt Ion:146 Resp: 28280

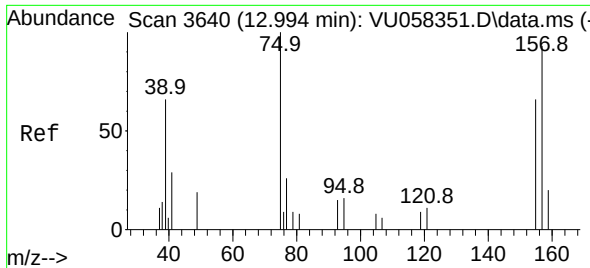
Ion Ratio Lower Upper

146 100

111 40.8 35.9 53.9

148 62.2 52.4 78.6

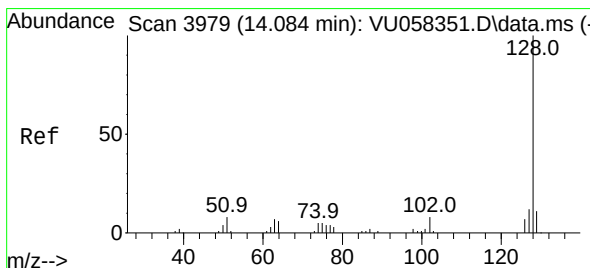
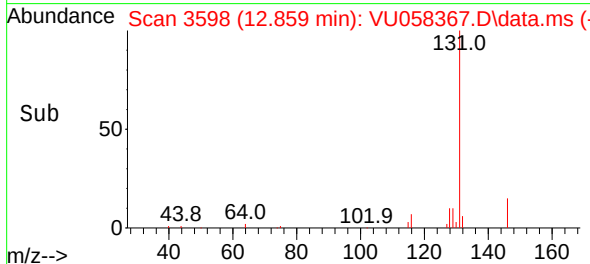
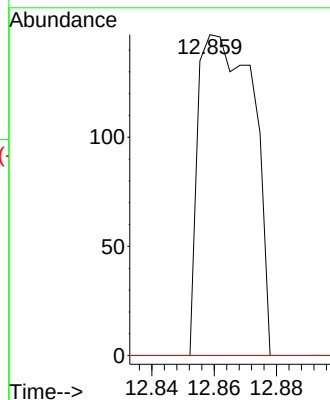
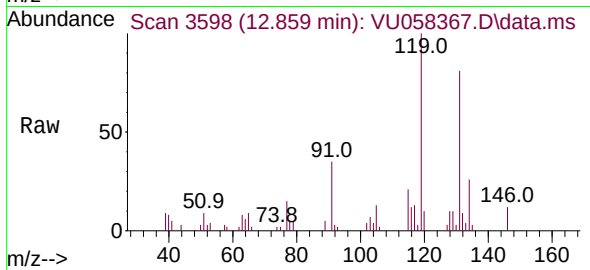




#68
1,2-Dibromo-3-chloropropane
Concen: 0.394 ug/L
RT: 12.859 min Scan# 3598
Delta R.T. -0.135 min
Lab File: VU058367.D
Acq: 03 Apr 2024 16:31

Instrument :
MSVOA_U
ClientSampleId :

Tgt Ion: 75 Resp: 179
Ion Ratio Lower Upper
75 100
155 0.0 60.2 90.2#
157 0.0 82.6 123.8#



#71
Naphthalene
Concen: 2.105 ug/L
RT: 14.087 min Scan# 3980
Delta R.T. 0.003 min
Lab File: VU058367.D
Acq: 03 Apr 2024 16:31

Tgt Ion: 128 Resp: 15037
Ion Ratio Lower Upper
128 100
129 9.6 8.1 12.1
127 11.5 10.2 15.4

