

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV071224\
 Data File : VV036513.D
 Acq On : 12 Jul 2024 17:44
 Operator : SY/MD
 Sample : P3215-15
 Misc : 5.29g/10.0mL/MSVOA_V/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 13 04:11:35 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM071124SMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jul 13 04:06:53 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.532	114	230508	25.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	126730	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.188	152	24142	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.272	65	118348	35.836	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery = 143.360%			
7) Chloroethane-d5	1.526	69	101553	35.172	ug/L	0.00
Spiked Amount 25.000	Range 30 - 150		Recovery = 140.680%			
11) 1,1-Dichloroethene-d2	2.050	65	45648	26.918	ug/L	0.00
Spiked Amount 25.000	Range 45 - 110		Recovery = 107.680%			
21) 2-Butanone-d5	3.889	46	796	1.408	ug/L	0.04
Spiked Amount 50.000	Range 20 - 135		Recovery = 2.820%#			
24) Chloroform-d	4.243	84	163569	24.378	ug/L	0.00
Spiked Amount 25.000	Range 40 - 150		Recovery = 97.520%			
26) 1,2-Dichloroethane-d4	4.937	65	89674	26.947	ug/L	0.00
Spiked Amount 25.000	Range 70 - 130		Recovery = 107.800%			
32) Benzene-d6	4.953	84	285162	45.104	ug/L	0.00
Spiked Amount 25.000	Range 20 - 135		Recovery = 180.400%#			
36) 1,2-Dichloropropane-d6	5.986	67	84771	44.990	ug/L	0.00
Spiked Amount 25.000	Range 70 - 120		Recovery = 179.960%#			
41) Toluene-d8	7.239	98	159233	27.296	ug/L	0.00
Spiked Amount 25.000	Range 30 - 130		Recovery = 109.200%			
43) trans-1,3-Dichloroprop...	7.571	79	5196	6.633	ug/L	0.02
Spiked Amount 25.000	Range 30 - 135		Recovery = 26.520%#			
47) 2-Hexanone-d5	8.159	63	72	0.344	ug/L	0.13
Spiked Amount 50.000	Range 20 - 135		Recovery = 0.680%#			
56) 1,1,2,2-Tetrachloroeth...	10.153	84	38770	24.431	ug/L	0.00
Spiked Amount 25.000	Range 45 - 120		Recovery = 97.720%			
66) 1,2-Dichlorobenzene-d4	11.561	152	16696	20.379	ug/L	0.00
Spiked Amount 25.000	Range 75 - 120		Recovery = 81.520%			
Target Compounds						Qvalue
10) 1,1,2-Trichloro-1,2,2-...	2.050	101	1605	0.407	ug/L #	22
13) Acetone	2.056	43	1870	2.340	ug/L	73
16) Methylene chloride	2.439	84	14206	2.998	ug/L	92
22) 2-Butanone	3.928	43	1733	2.583	ug/L #	70
35) Methylcyclohexane	5.982	83	22933	10.069	ug/L #	21
48) 2-Hexanone	8.095	43	2910	5.454	ug/L #	40
51) Chlorobenzene	8.818	112	1977	0.397	ug/L	88
60) Isopropylbenzene	9.870	105	1441	0.597	ug/L #	93
61) 1,2,3-Trichloropropane	10.217	75	243	0.566	ug/L #	78
62) 1,3,5-Trimethylbenzene	10.480	105	884	0.512	ug/L	96
63) 1,2,4-Trimethylbenzene	10.863	105	1483	0.789	ug/L	94
64) 1,3-Dichlorobenzene	11.130	146	2724	1.911	ug/L	88
65) 1,4-Dichlorobenzene	11.210	146	3442	2.248	ug/L	94
67) 1,2-Dichlorobenzene	11.583	146	2998	2.188	ug/L	89
69) 1,3,5-Trichlorobenzene	12.587	180	2402	2.176	ug/L #	90
70) 1,2,4-trichlorobenzene	13.201	180	3868	4.405	ug/L	91
71) Naphthalene	13.442	128	10496	7.959	ug/L	97
72) 1,2,3-Trichlorobenzene	13.683	180	3885	4.677	ug/L	98

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Quant Title : VOC Analysis
QLast Update : Sat Jul 13 04:06:53 2024
Response via : Initial Calibration

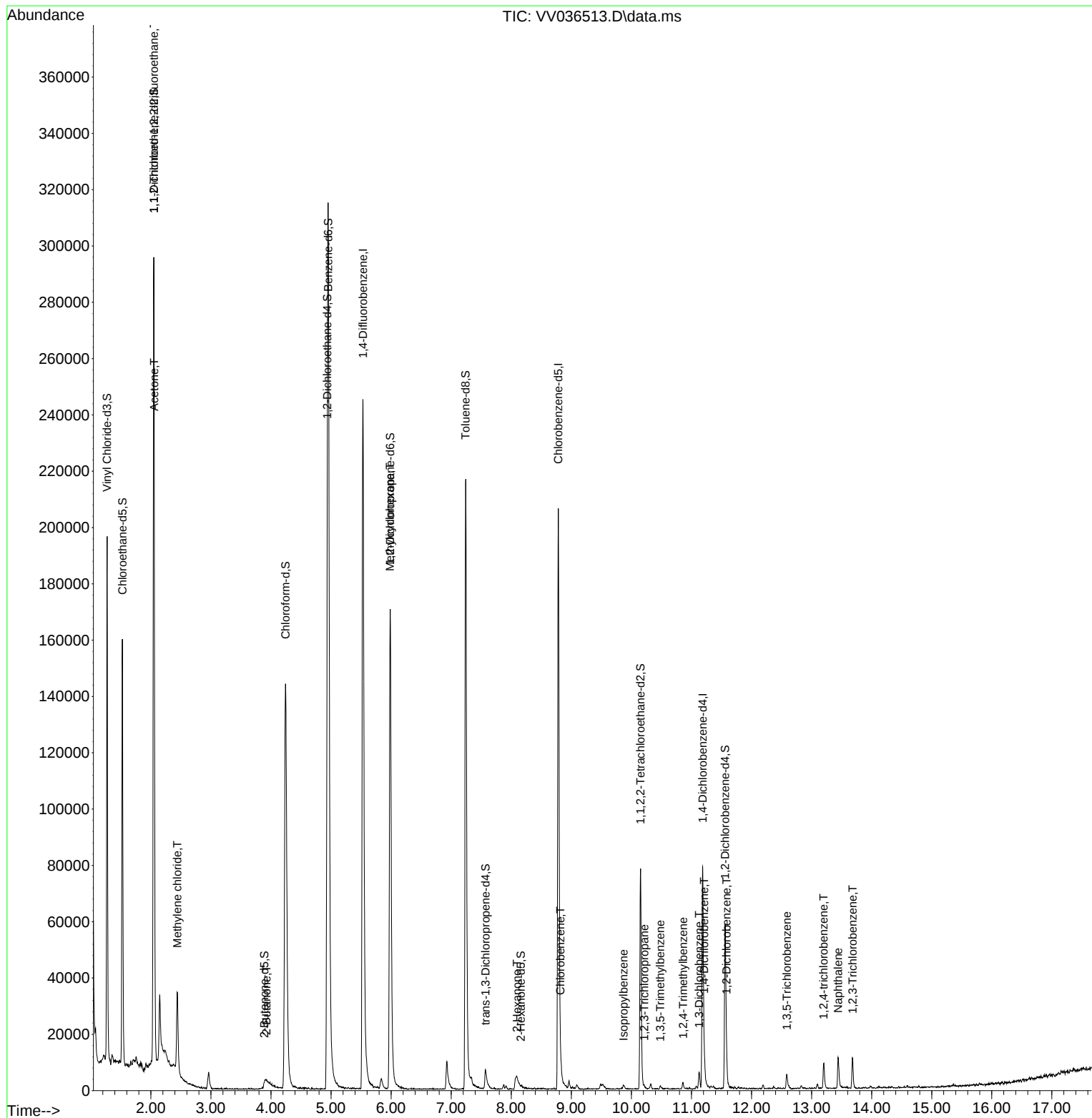
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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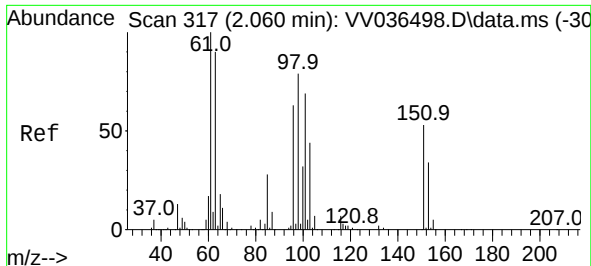
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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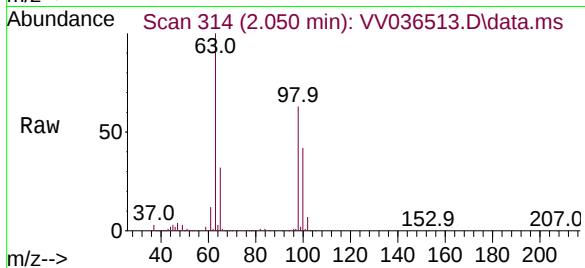
Quant Time: Jul 13 04:11:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM071124SMA.M
Quant Title : VOC Analysis
QLast Update : Sat Jul 13 04:06:53 2024
Response via : Initial Calibration



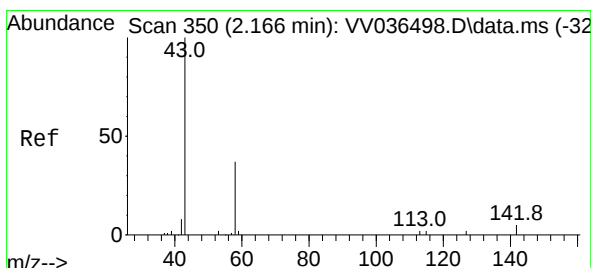
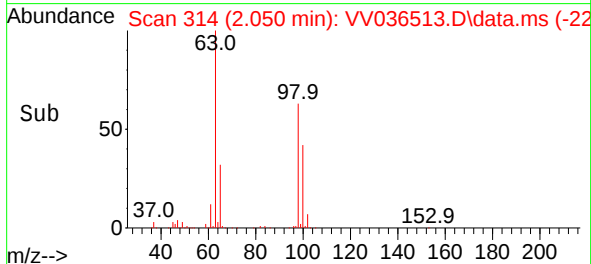
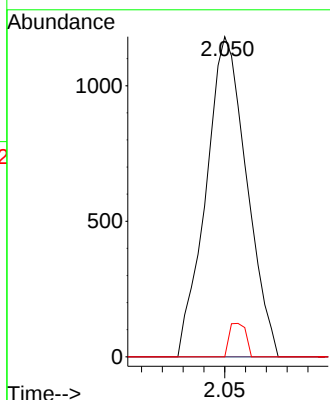


#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.407 ug/L
RT: 2.050 min Scan# 314
Delta R.T. -0.010 min
Lab File: VV036513.D
Acq: 12 Jul 2024 17:44

Instrument :
MSVOA_V
ClientSampleId :

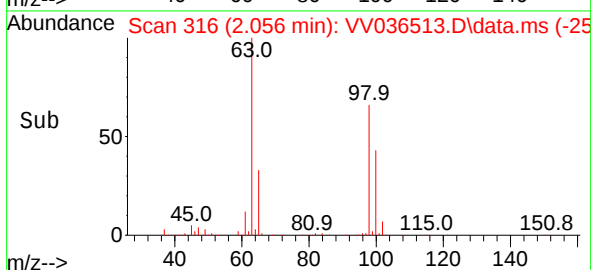
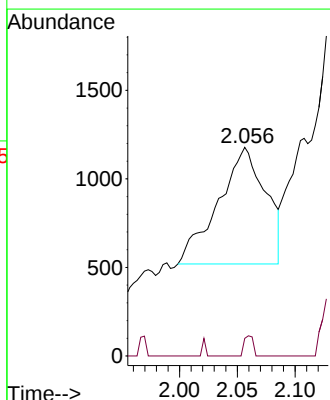
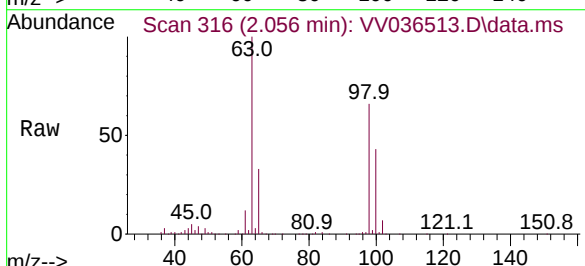


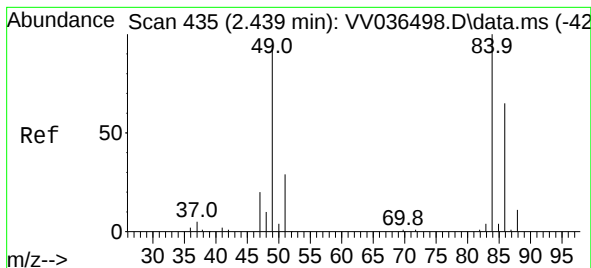
Tgt Ion:101 Resp: 1605
Ion Ratio Lower Upper
101 100
85 0.0 32.5 48.7#
151 4.2 62.6 94.0#



#13
Acetone
Concen: 2.340 ug/L
RT: 2.056 min Scan# 316
Delta R.T. -0.109 min
Lab File: VV036513.D
Acq: 12 Jul 2024 17:44

Tgt Ion: 43 Resp: 1870
Ion Ratio Lower Upper
43 100
58 3.3 0.0 28.4





#16

Methylene chloride

Concen: 2.998 ug/L

RT: 2.439 min Scan# 41

Delta R.T. -0.000 min

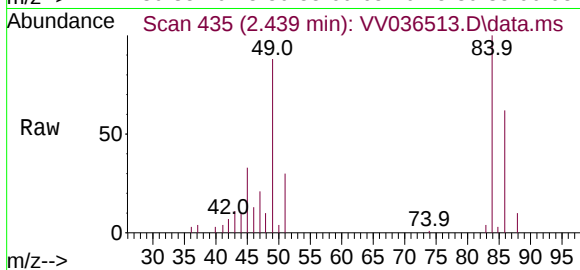
Lab File: VV036513.D

Acq: 12 Jul 2024 17:44

Instrument :

MSVOA_V

ClientSampleId :



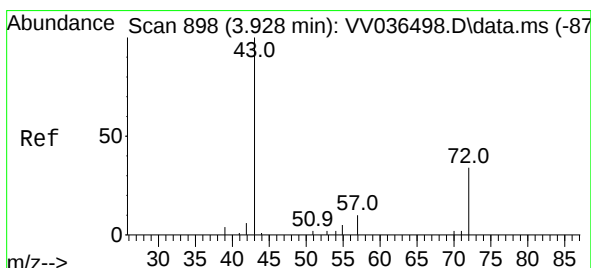
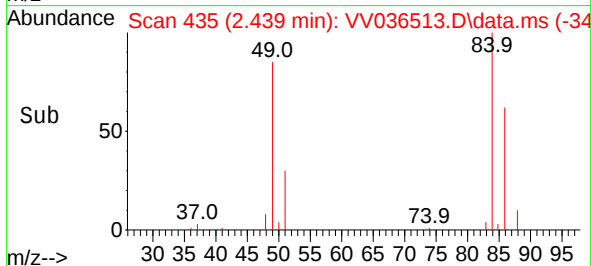
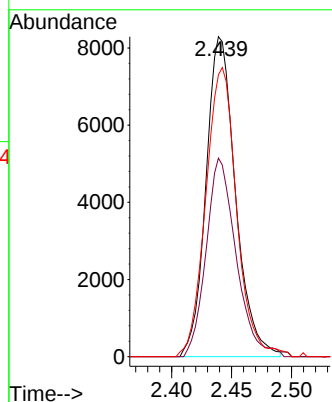
Tgt Ion: 84 Resp: 14206

Ion	Ratio	Lower	Upper
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84	100		
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86	62.1	46.3	86.1
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49	88.1	68.1	126.5
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#22

2-Butanone

Concen: 2.583 ug/L

RT: 3.928 min Scan# 898

Delta R.T. -0.000 min

Lab File: VV036513.D

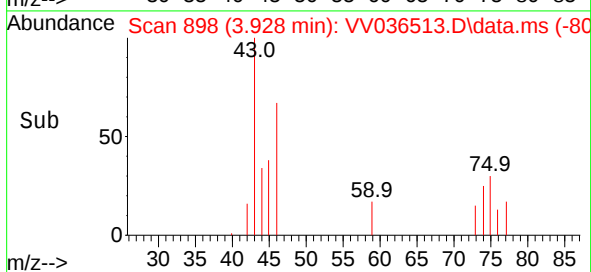
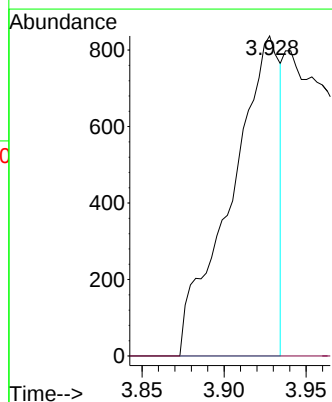
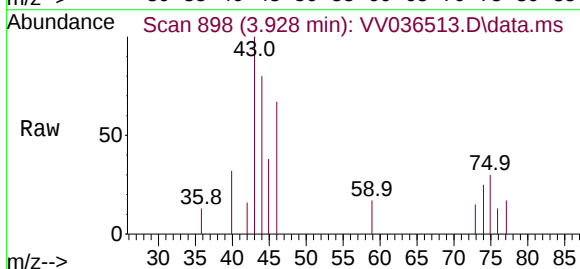
Acq: 12 Jul 2024 17:44

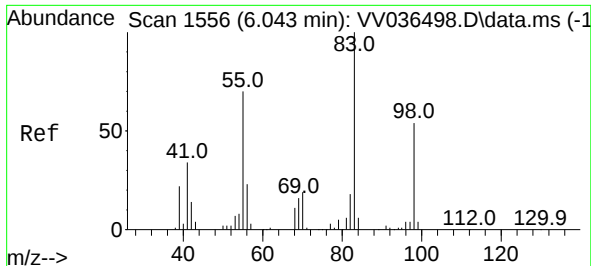
Tgt Ion: 43 Resp: 1733

Ion	Ratio	Lower	Upper
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43	100		
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72	0.0	5.9	17.6#
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#35

Methylcyclohexane

Concen: 10.069 ug/L

RT: 5.982 min Scan# 1

Delta R.T. -0.061 min

Lab File: VV036513.D

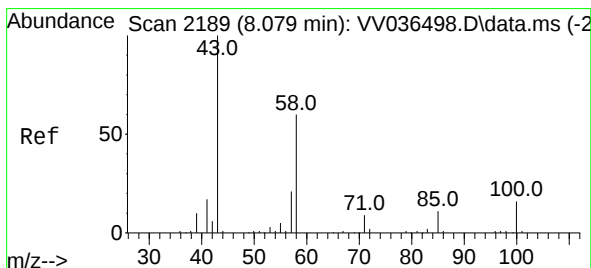
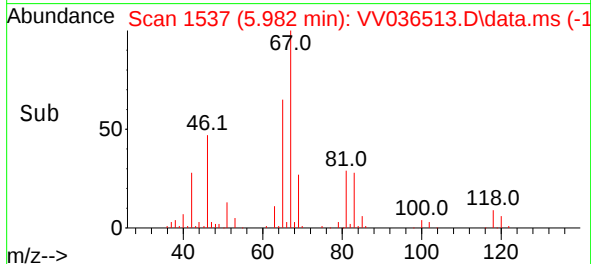
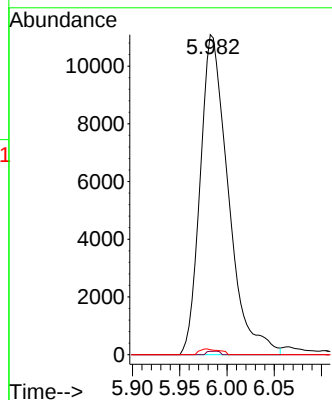
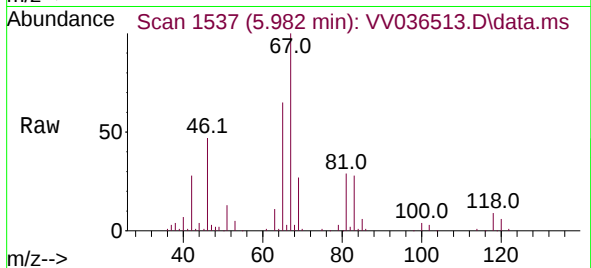
Acq: 12 Jul 2024 17:44

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:	83	Resp:	22933
Ion	Ratio	Lower	Upper
83	100		
55	0.0	54.3	81.5#
98	1.3	41.7	62.5#



#48

2-Hexanone

Concen: 5.454 ug/L

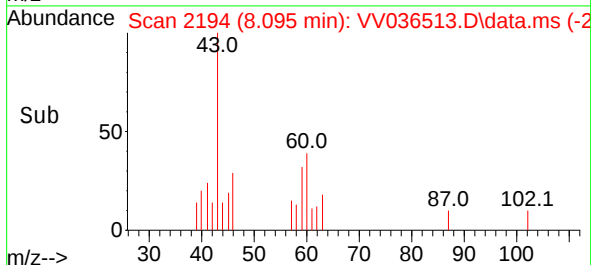
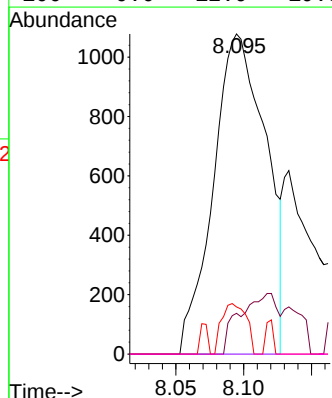
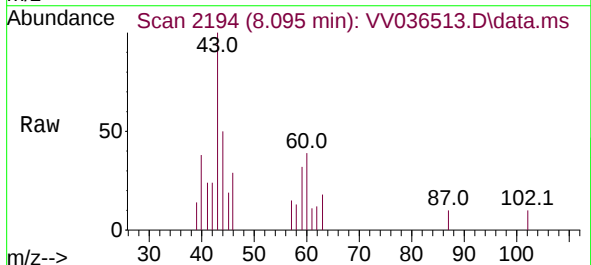
RT: 8.095 min Scan# 2194

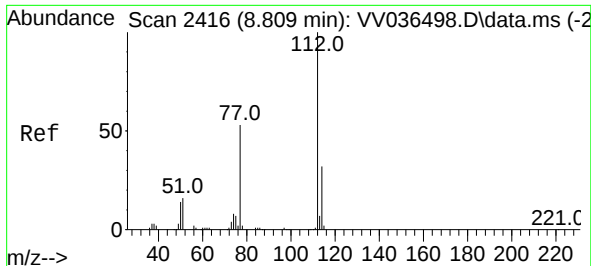
Delta R.T. 0.016 min

Lab File: VV036513.D

Acq: 12 Jul 2024 17:44

Tgt Ion:	43	Resp:	2910
Ion	Ratio	Lower	Upper
43	100		
58	3.3	49.5	74.3#
57	7.4	15.3	22.9#
100	0.0	12.9	19.3#





#51

Chlorobenzene

Concen: 0.397 ug/L

RT: 8.818 min Scan# 2416

Delta R.T. 0.010 min

Lab File: VV036513.D

Acq: 12 Jul 2024 17:44

Instrument :

MSVOA_V

ClientSampleId :

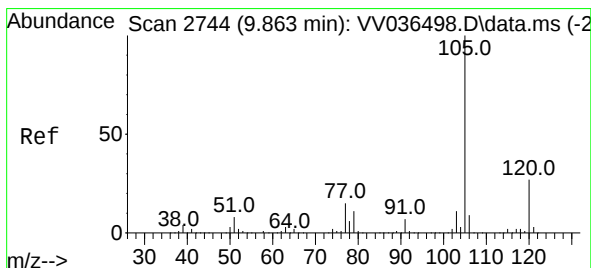
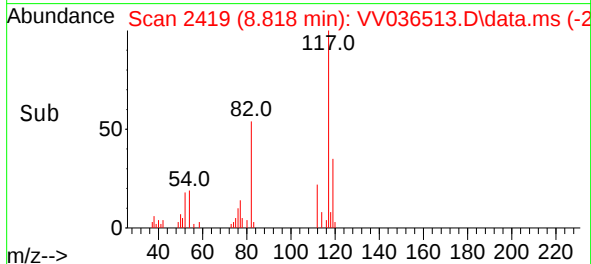
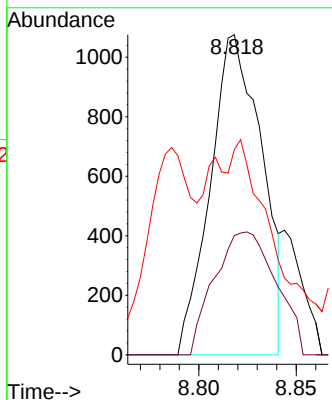
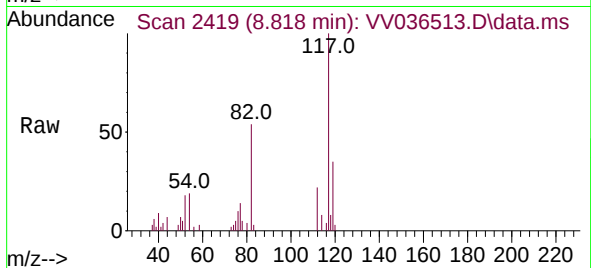
Tgt Ion:112 Resp: 1977

Ion Ratio Lower Upper

112 100

114 37.3 22.5 41.9

77 64.1 43.0 64.6



#60

Isopropylbenzene

Concen: 0.597 ug/L

RT: 9.870 min Scan# 2746

Delta R.T. 0.006 min

Lab File: VV036513.D

Acq: 12 Jul 2024 17:44

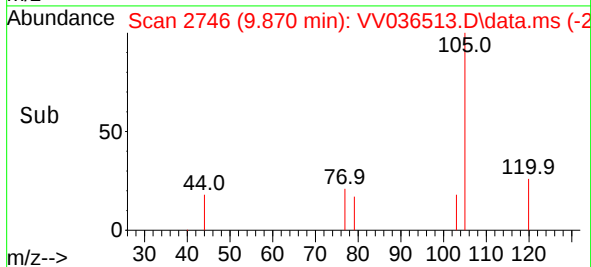
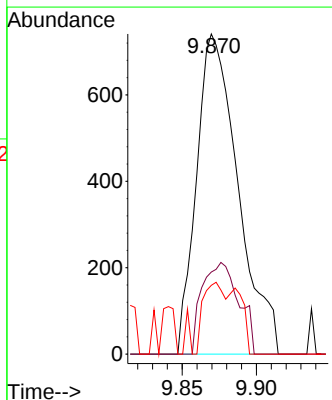
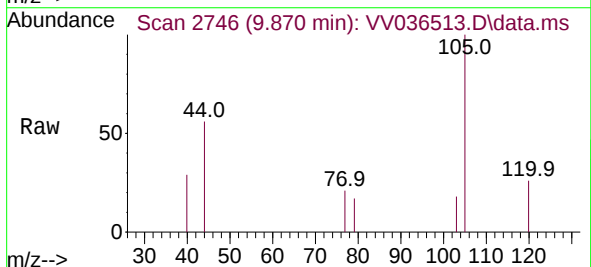
Tgt Ion:105 Resp: 1441

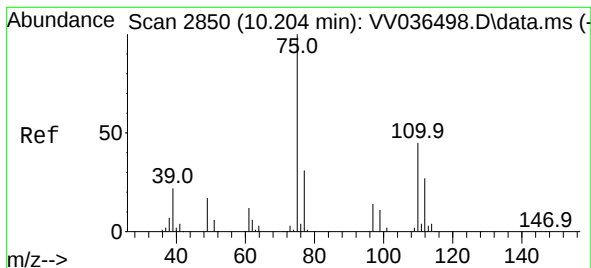
Ion Ratio Lower Upper

105 100

120 23.7 21.8 32.6

77 11.7 12.0 18.0#





#61

1,2,3-Trichloropropane

Concen: 0.566 ug/L

RT: 10.217 min Scan# 21

Delta R.T. 0.013 min

Lab File: VV036513.D

Acq: 12 Jul 2024 17:44

Instrument :

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ClientSampleId :

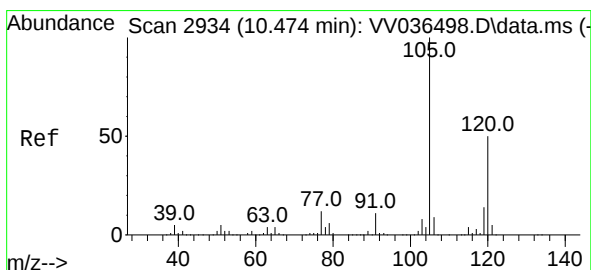
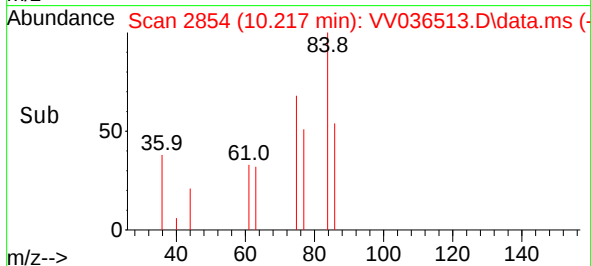
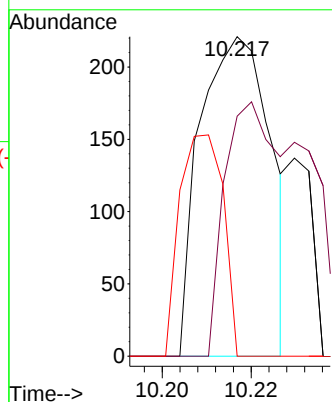
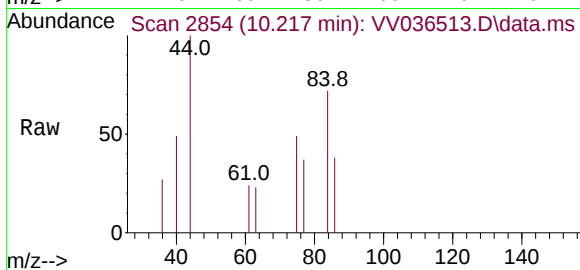
Tgt Ion: 75 Resp: 243

Ion Ratio Lower Upper

75 100

77 59.7 25.6 38.4#

110 42.8 34.8 52.2



#62

1,3,5-Trimethylbenzene

Concen: 0.512 ug/L

RT: 10.480 min Scan# 2936

Delta R.T. 0.006 min

Lab File: VV036513.D

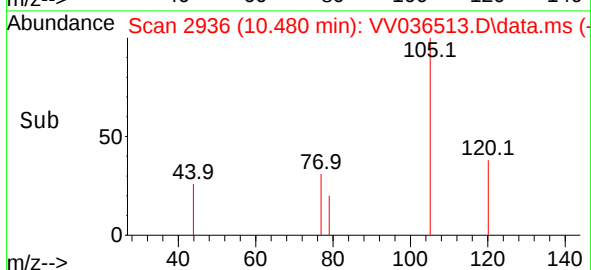
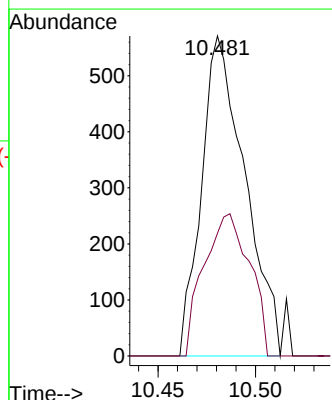
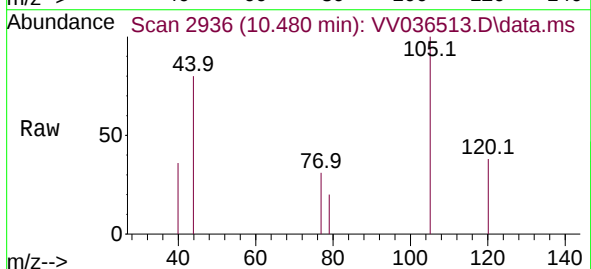
Acq: 12 Jul 2024 17:44

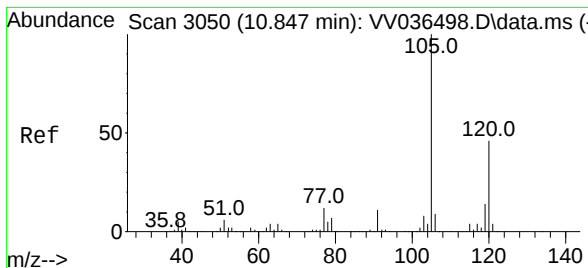
Tgt Ion:105 Resp: 884

Ion Ratio Lower Upper

105 100

120 46.8 39.9 59.9





#63

1,2,4-Trimethylbenzene

Concen: 0.789 ug/L

RT: 10.863 min Scan# 3055

Delta R.T. 0.016 min

Lab File: VV036513.D

Acq: 12 Jul 2024 17:44

Instrument :

MSVOA_V

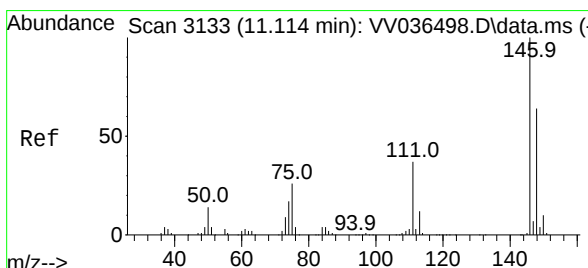
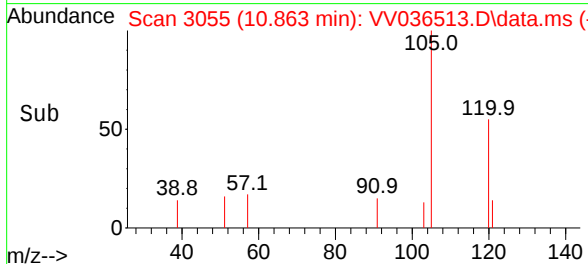
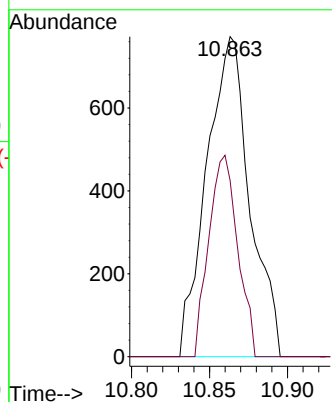
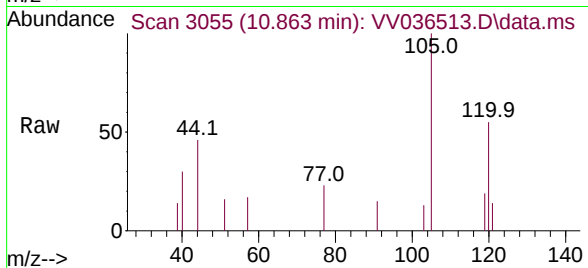
ClientSampleId :

Tgt Ion:105 Resp: 1483

Ion Ratio Lower Upper

105 100

120 42.1 37.0 55.4



#64

1,3-Dichlorobenzene

Concen: 1.911 ug/L

RT: 11.130 min Scan# 3138

Delta R.T. 0.016 min

Lab File: VV036513.D

Acq: 12 Jul 2024 17:44

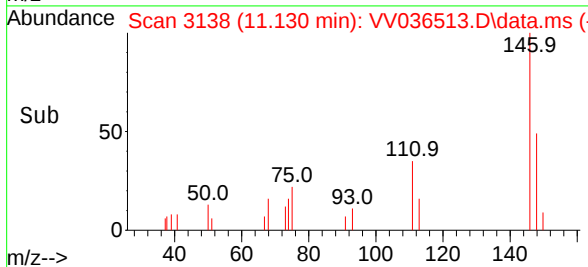
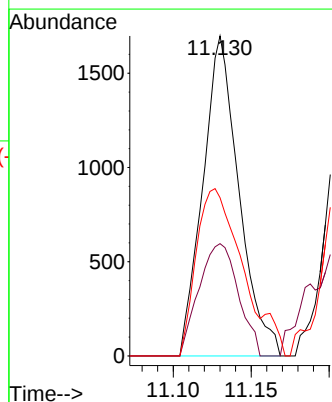
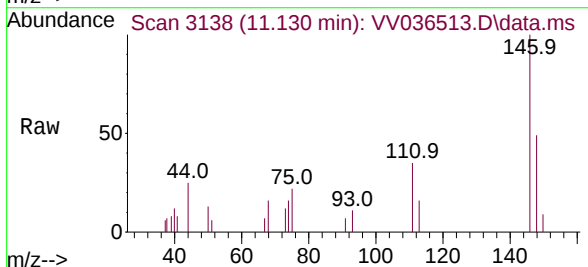
Tgt Ion:146 Resp: 2724

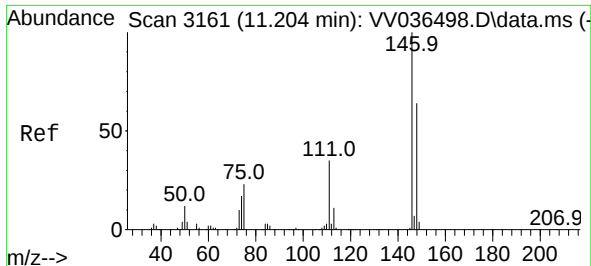
Ion Ratio Lower Upper

146 100

111 35.1 25.8 47.8

148 49.5 44.4 82.4





#65

1,4-Dichlorobenzene

Concen: 2.248 ug/L

RT: 11.210 min Scan# 3161

Delta R.T. 0.006 min

Lab File: VV036513.D

Acq: 12 Jul 2024 17:44

Instrument :

MSVOA_V

ClientSampleId :

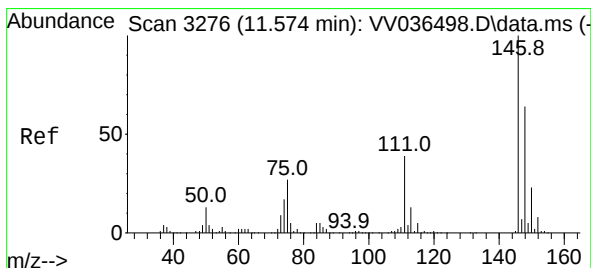
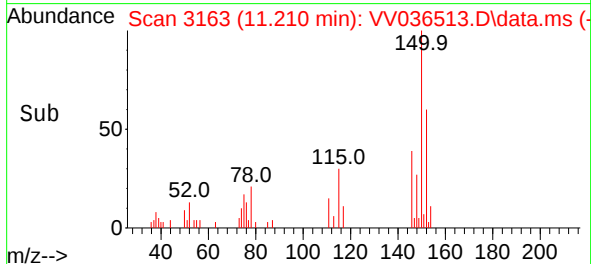
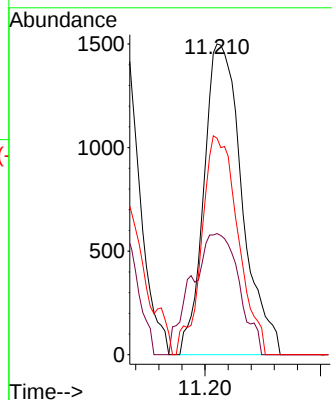
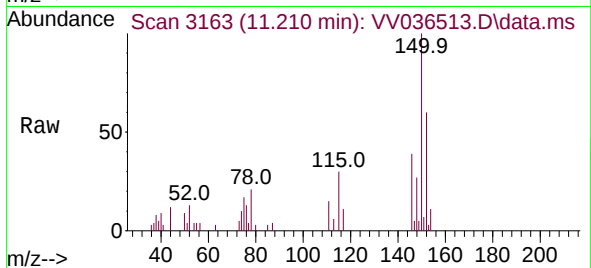
Tgt Ion:146 Resp: 3442

Ion Ratio Lower Upper

146 100

111 39.0 25.2 46.8

148 69.7 45.2 84.0



#67

1,2-Dichlorobenzene

Concen: 2.188 ug/L

RT: 11.583 min Scan# 3279

Delta R.T. 0.010 min

Lab File: VV036513.D

Acq: 12 Jul 2024 17:44

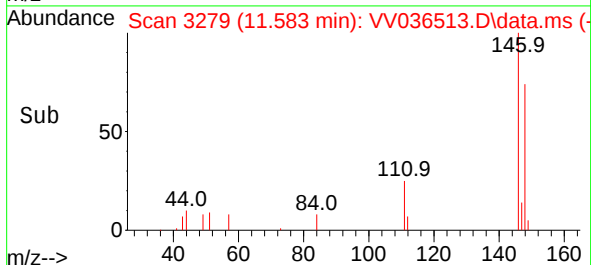
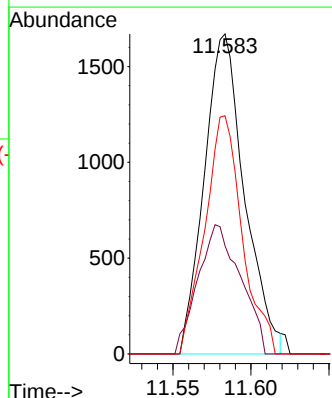
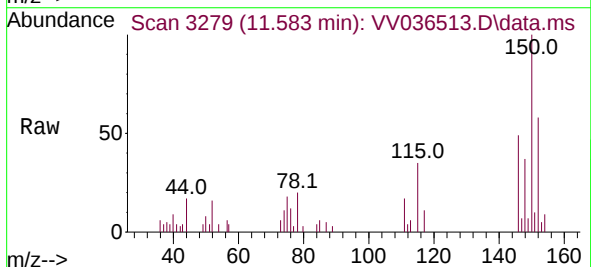
Tgt Ion:146 Resp: 2998

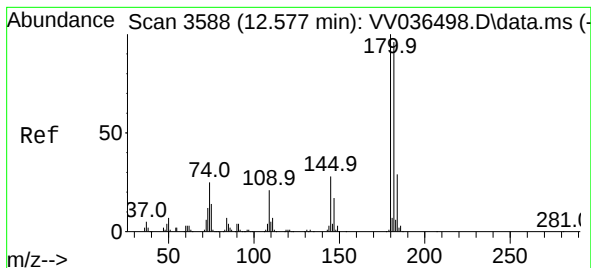
Ion Ratio Lower Upper

146 100

111 33.8 30.8 46.2

148 74.4 51.3 76.9





#69

1,3,5-Trichlorobenzene

Concen: 2.176 ug/L

RT: 12.587 min Scan# 3591

Delta R.T. 0.010 min

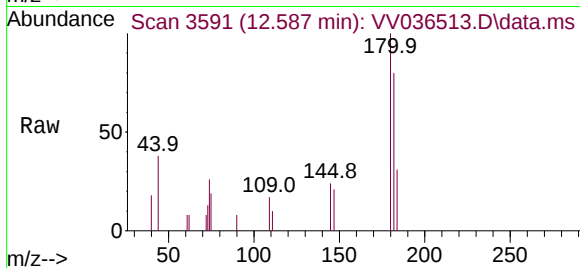
Lab File: VV036513.D

Acq: 12 Jul 2024 17:44

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:180 Resp: 2402

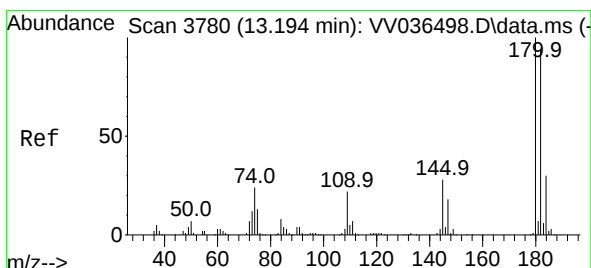
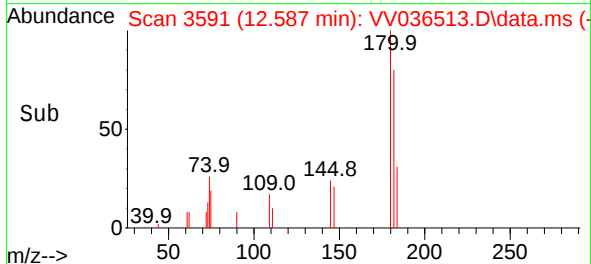
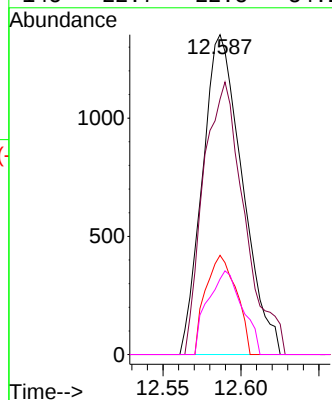
Ion Ratio Lower Upper

180 100

182 87.8 77.4 116.0

184 23.8 24.4 36.6#

145 22.7 22.8 34.2#



#70

1,2,4-trichlorobenzene

Concen: 4.405 ug/L

RT: 13.201 min Scan# 3782

Delta R.T. 0.006 min

Lab File: VV036513.D

Acq: 12 Jul 2024 17:44

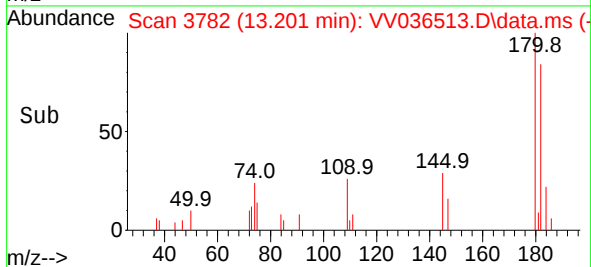
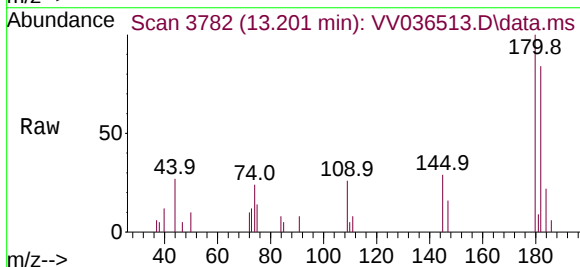
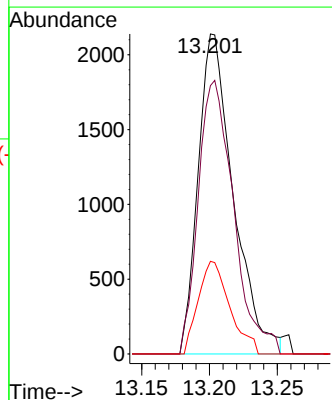
Tgt Ion:180 Resp: 3868

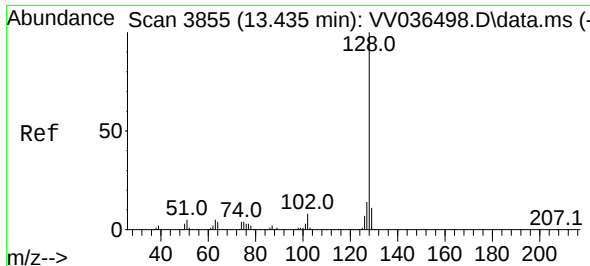
Ion Ratio Lower Upper

180 100

182 85.8 76.7 115.1

145 25.9 23.0 34.6

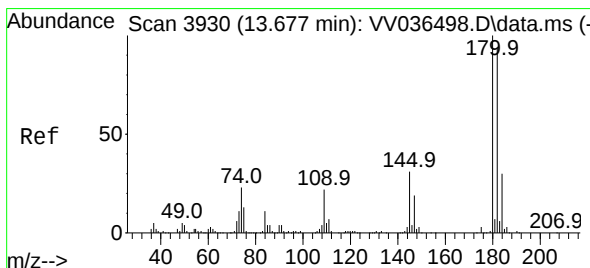
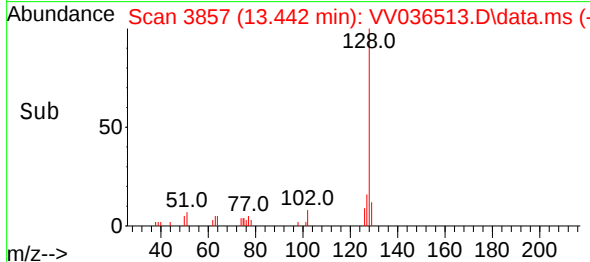
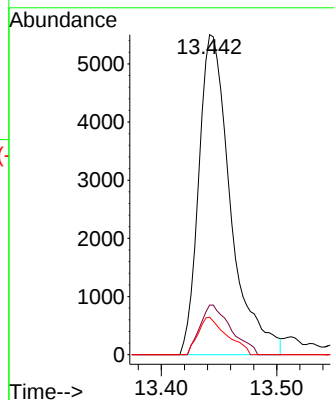
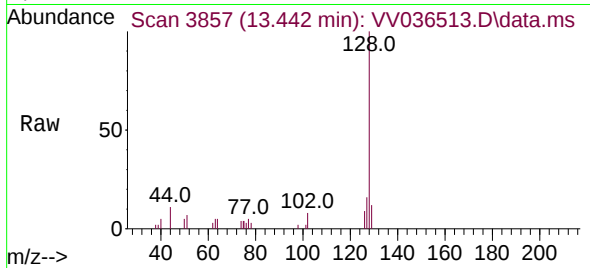




#71
Naphthalene
Concen: 7.959 ug/L
RT: 13.442 min Scan# 3855
Delta R.T. 0.006 min
Lab File: VV036513.D
Acq: 12 Jul 2024 17:44

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion:128 Resp: 10496
Ion Ratio Lower Upper
128 100
127 15.1 10.8 16.2
129 10.6 8.6 13.0



#72
1,2,3-Trichlorobenzene
Concen: 4.677 ug/L
RT: 13.683 min Scan# 3932
Delta R.T. 0.006 min
Lab File: VV036513.D
Acq: 12 Jul 2024 17:44

Tgt Ion:180 Resp: 3885
Ion Ratio Lower Upper
180 100
182 93.7 76.6 114.8
145 32.0 24.4 36.6

