

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092624\
 Data File : VV037553.D
 Acq On : 26 Sep 2024 17:11
 Operator : SY/MD
 Sample : P4184-02
 Misc : 5mL/MSVOA_V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 27 00:53:05 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM092624WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 27 00:49:09 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	699699	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.780	117	665012	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	365987	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.278	65	294269	47.909	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	95.820%
7) Chloroethane-d5	1.532	69	212180	44.504	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	89.000%
11) 1,1-Dichloroethene-d2	2.056	65	111369	43.399	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.800%
21) 2-Butanone-d5	3.793	46	213983	97.810	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	97.810%
24) Chloroform-d	4.243	84	460064	42.100	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	84.200%
26) 1,2-Dichloroethane-d4	4.937	65	277738	43.422	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.840%
32) Benzene-d6	4.953	84	927686	44.580	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	89.160%
36) 1,2-Dichloropropane-d6	5.982	67	297559	44.905	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	89.820%
41) Toluene-d8	7.236	98	847218	44.899	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.800%
43) trans-1,3-Dichloroprop...	7.548	79	130244	42.312	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	84.620%
47) 2-Hexanone-d5	8.024	63	140279	100.255	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.260%
56) 1,1,2,2-Tetrachloroeth...	10.146	84	342614	44.499	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	89.000%
66) 1,2-Dichlorobenzene-d4	11.554	152	344690	44.695	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.380%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.281	62	2679148	432.141	ug/L	99
8) Chloroethane	1.548	64	1615045	422.651	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.056	101	3667	0.735	ug/L #	24
12) 1,1-Dichloroethene	2.069	96	32932	7.070	ug/L #	1
16) Methylene chloride	2.442	84	17538	3.325	ug/L	93
17) trans-1,2-Dichloroethene	2.690	96	88347	17.928	ug/L	98
19) 1,1-Dichloroethane	3.105	63	7084294	750.308	ug/L	99
20) cis-1,2-Dichloroethene	3.805	96	3546672	643.134	ug/L	99
27) 1,2-Dichloroethane	5.040	62	89760	13.006	ug/L	98
29) Cyclohexane	4.568	56	8339	1.104	ug/L #	45
30) 1,1,1-Trichloroethane	4.503	97	371032	45.300	ug/L	100
33) Benzene	5.008	78	152801	7.619	ug/L	100
34) Trichloroethene	5.828	95	114531	21.443	ug/L	99
35) Methylcyclohexane	6.043	83	15496	1.886	ug/L	90
40) 4-Methyl-2-pentanone	7.162	43	77845	18.461	ug/L	97
42) Toluene	7.310	91	516809	24.856	ug/L	99
45) 1,1,2-Trichloroethane	7.773	97	8940	1.798	ug/L	84
46) Tetrachloroethene	7.905	164	11641	2.851	ug/L	91
52) Ethylbenzene	8.940	91	2302517	98.379	ug/L	99

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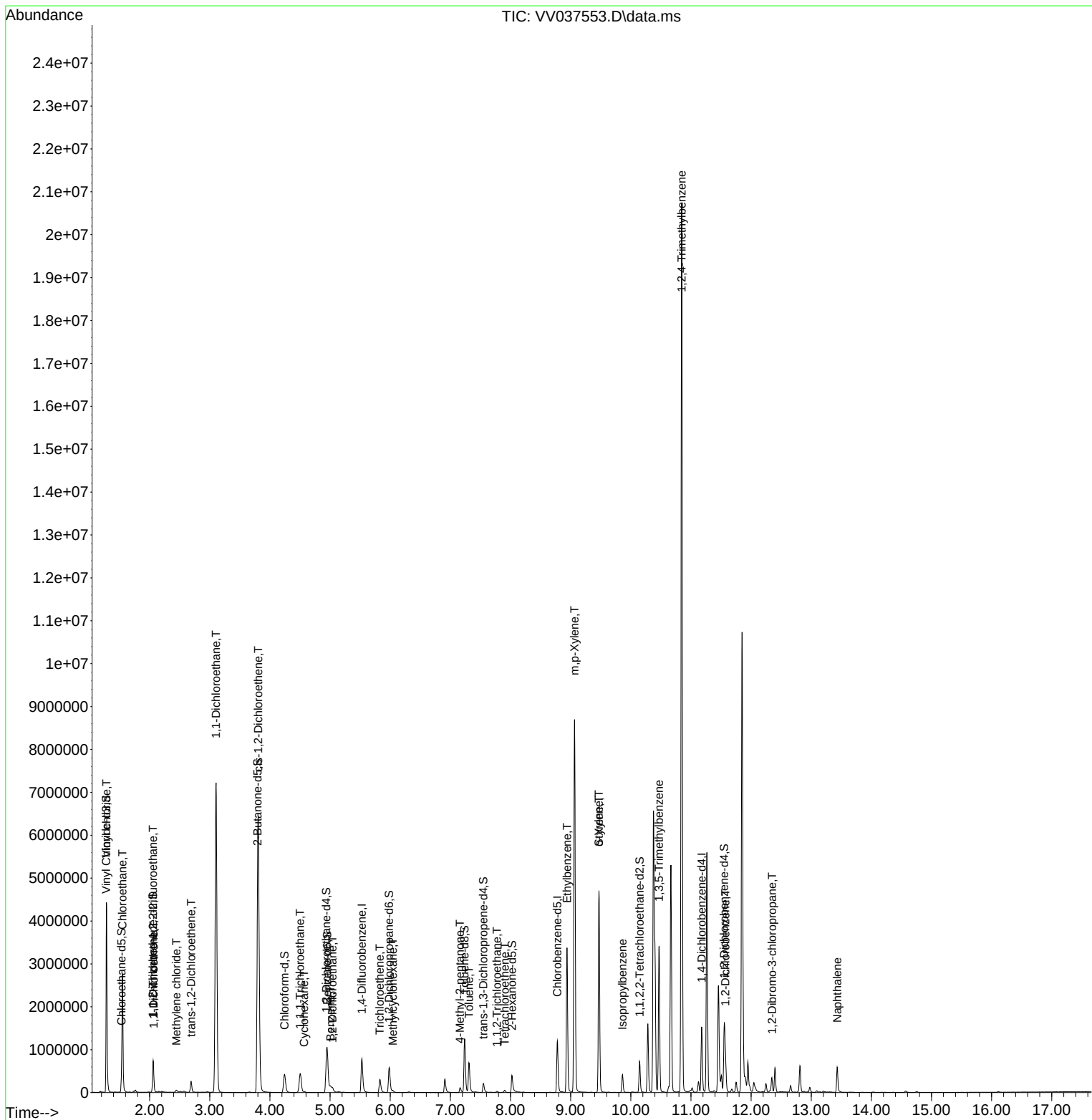
Instrument :
MSVOA_V
ClientSampleId :

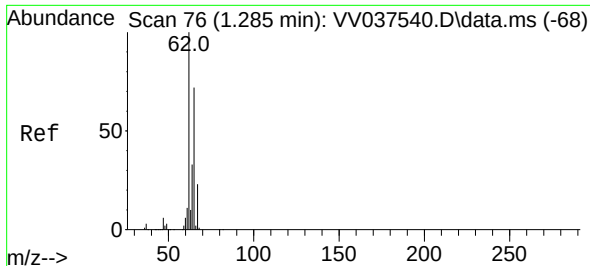
Quant Time: Sep 27 00:53:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM092624WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Sep 27 00:49:09 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.066	106	2435031	279.554	ug/L	98
54) o-Xylene	9.471	106	1201029	141.233	ug/L	97
55) Styrene	9.471	104	62303	4.209	ug/L #	1
60) Isopropylbenzene	9.863	105	266535	11.202	ug/L	99
62) 1,3,5-Trimethylbenzene	10.471	105	1796996	95.524	ug/L	100
63) 1,2,4-Trimethylbenzene	10.847	105	10722779	572.881	ug/L	97
67) 1,2-Dichlorobenzene	11.574	146	114436	10.107	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.349	75	1688	1.335	ug/L #	1
71) Naphthalene	13.432	128	475129	24.887	ug/L	99

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

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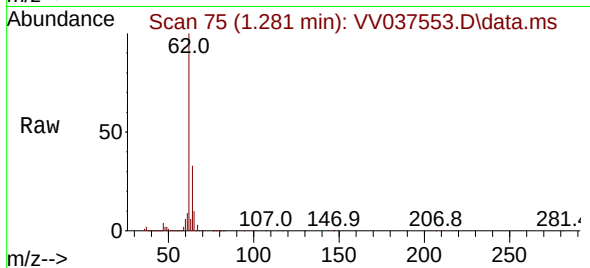


#5
 Vinyl chloride
 Concen: 432.141 ug/L
 RT: 1.281 min Scan# 74
 Delta R.T. -0.003 min
 Lab File: VV037553.D
 Acq: 26 Sep 2024 17:11

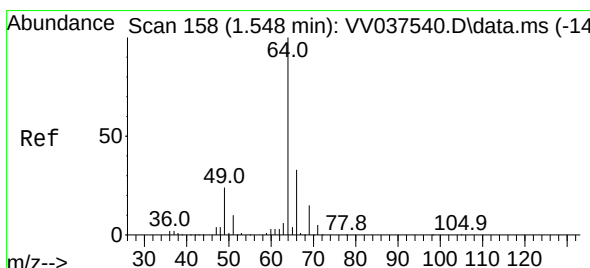
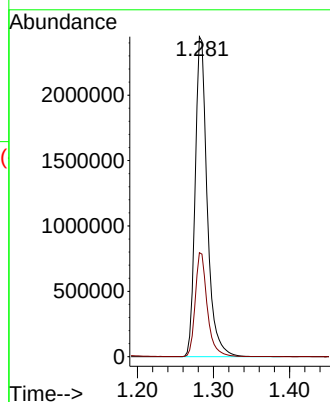
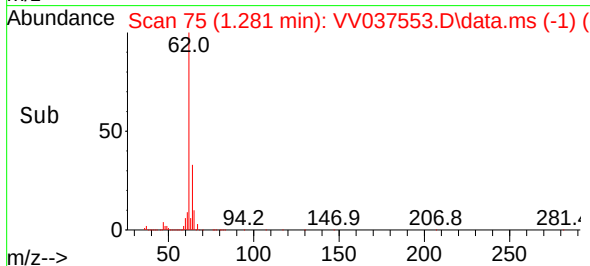
Instrument :

MSVOA_V

ClientSampleId :

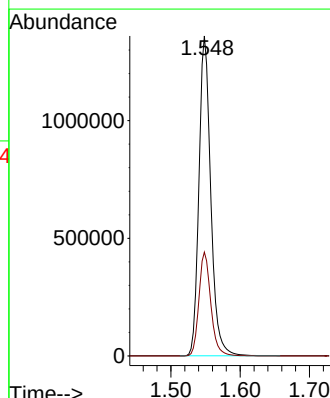
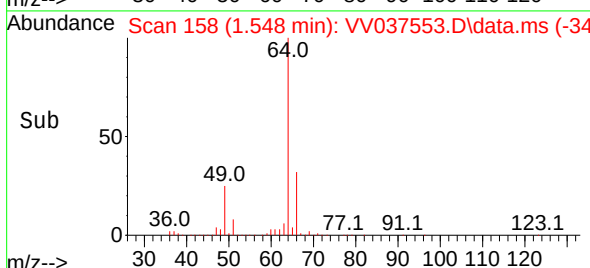
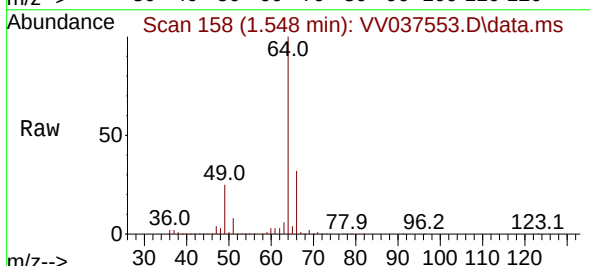


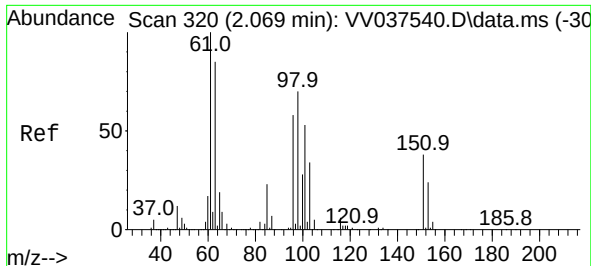
Tgt Ion: 62 Resp: 2679148
 Ion Ratio Lower Upper
 62 100
 64 32.5 23.2 43.0



#8
 Chloroethane
 Concen: 422.651 ug/L
 RT: 1.548 min Scan# 158
 Delta R.T. -0.000 min
 Lab File: VV037553.D
 Acq: 26 Sep 2024 17:11

Tgt Ion: 64 Resp: 1615045
 Ion Ratio Lower Upper
 64 100
 66 32.5 22.2 41.2

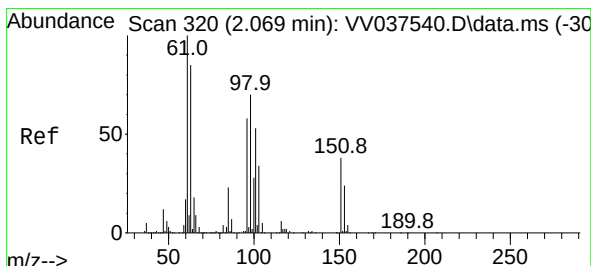
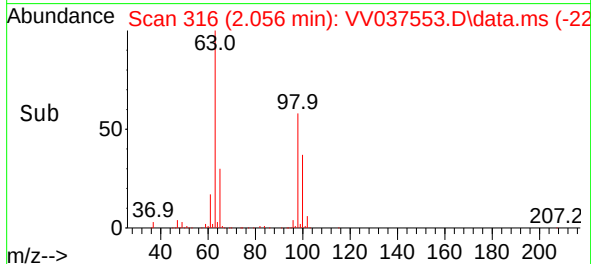
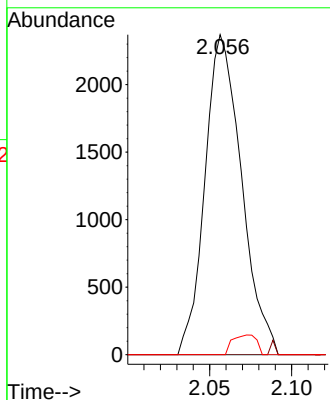
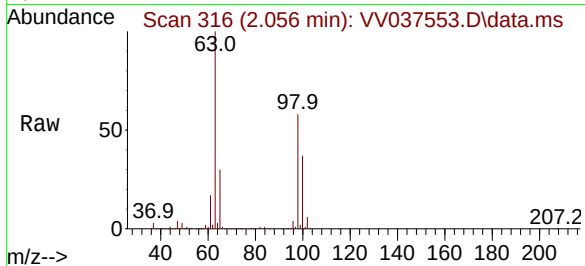




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.735 ug/L
RT: 2.056 min Scan# 316
Delta R.T. -0.013 min
Lab File: VV037553.D
Acq: 26 Sep 2024 17:11

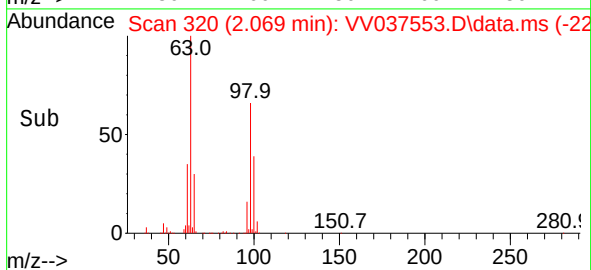
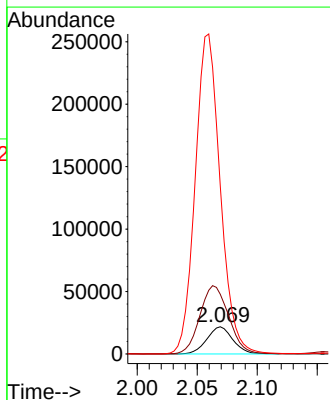
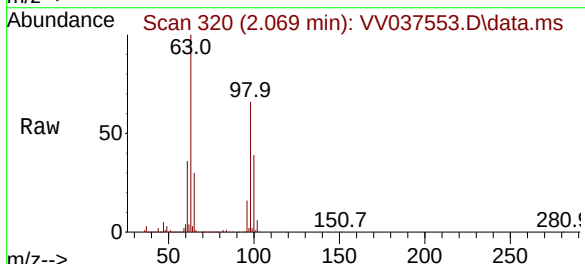
Instrument :
MSVOA_V
ClientSampleId :

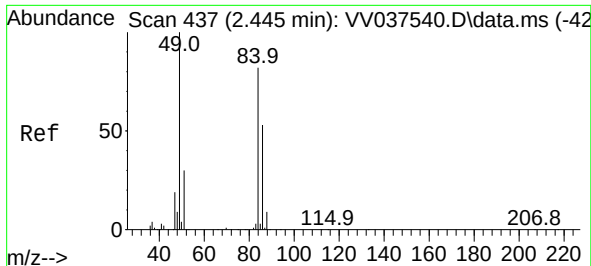
Tgt Ion:101 Resp: 3667
Ion Ratio Lower Upper
101 100
85 1.2 34.6 52.0#
151 4.0 57.5 86.3#



#12
1,1-Dichloroethene
Concen: 7.070 ug/L
RT: 2.069 min Scan# 320
Delta R.T. -0.000 min
Lab File: VV037553.D
Acq: 26 Sep 2024 17:11

Tgt Ion: 96 Resp: 32932
Ion Ratio Lower Upper
96 100
61 219.5 122.6 227.6
63 618.2 118.0 219.2#

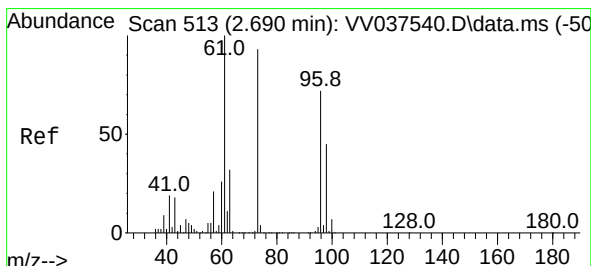
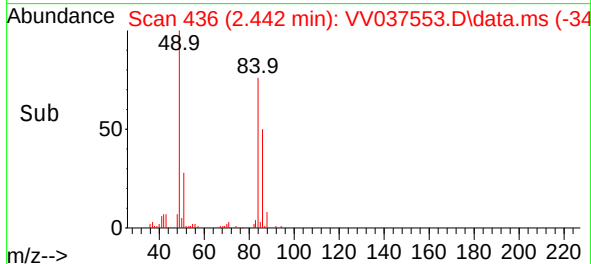
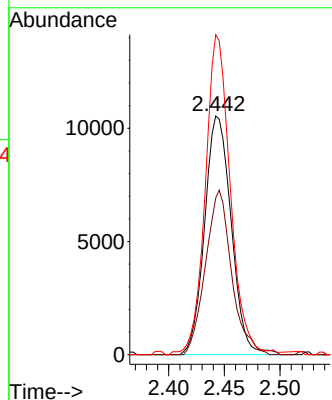
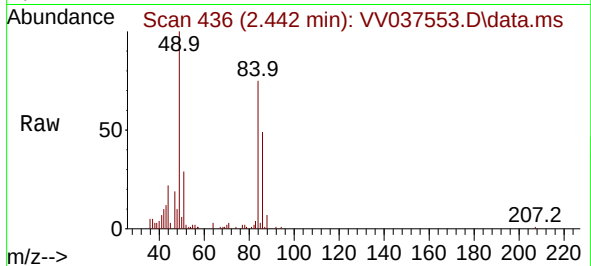




#16
Methylene chloride
Concen: 3.325 ug/L
RT: 2.442 min Scan# 41
Delta R.T. -0.003 min
Lab File: VV037553.D
Acq: 26 Sep 2024 17:11

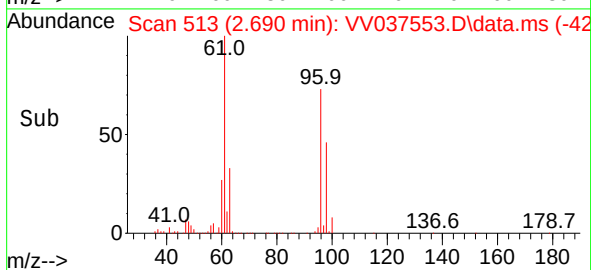
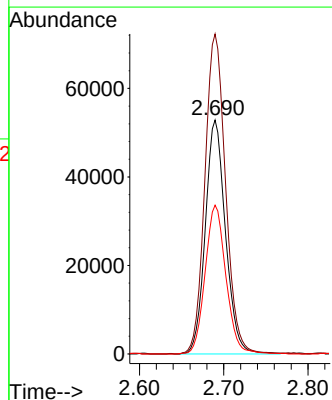
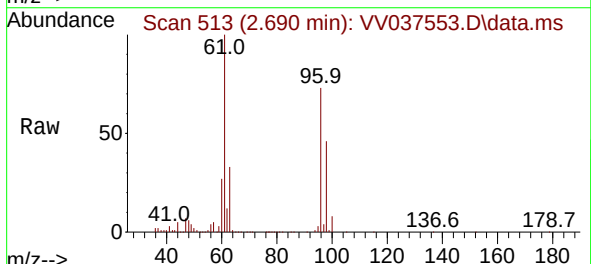
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MSVOA_V
ClientSampleId :

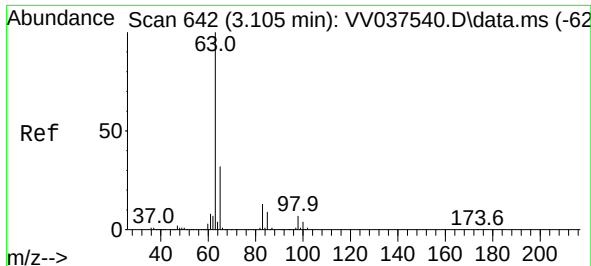
Tgt Ion: 84 Resp: 17538
Ion Ratio Lower Upper
84 100
86 65.6 46.4 86.2
49 134.0 85.9 159.5



#17
trans-1,2-Dichloroethene
Concen: 17.928 ug/L
RT: 2.690 min Scan# 513
Delta R.T. -0.000 min
Lab File: VV037553.D
Acq: 26 Sep 2024 17:11

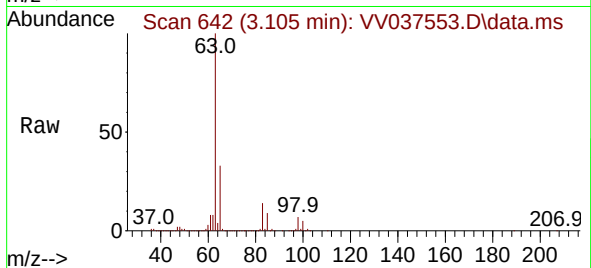
Tgt Ion: 96 Resp: 88347
Ion Ratio Lower Upper
96 100
61 136.8 97.3 180.7
98 63.6 43.9 81.5





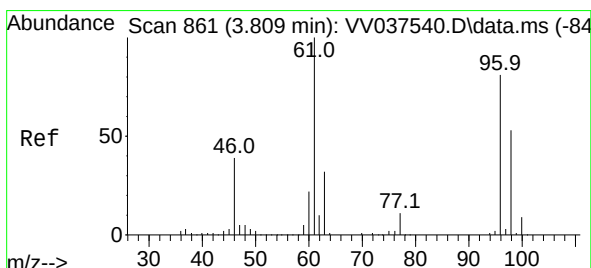
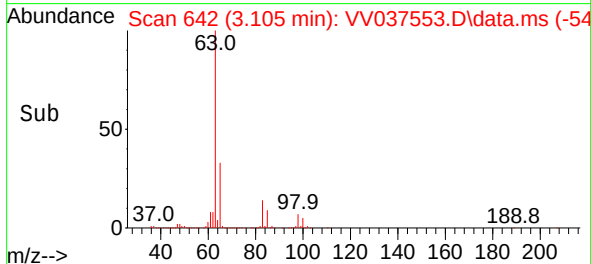
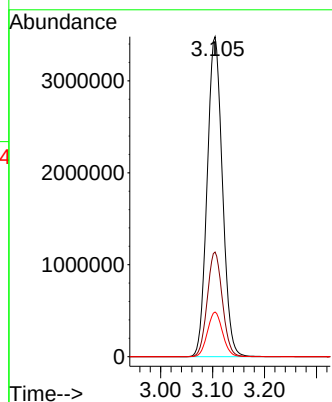
#19
1,1-Dichloroethane
Concen: 750.308 ug/L
RT: 3.105 min Scan# 64
Delta R.T. -0.000 min
Lab File: VV037553.D
Acq: 26 Sep 2024 17:11

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion: 63 Resp: 7084294

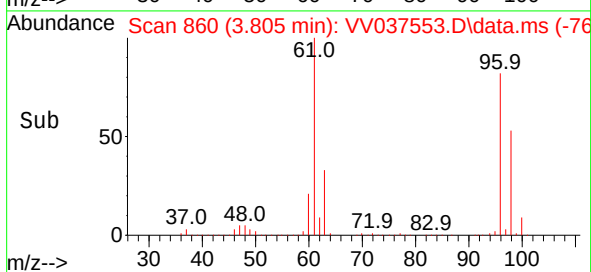
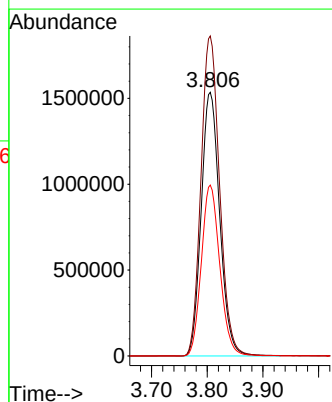
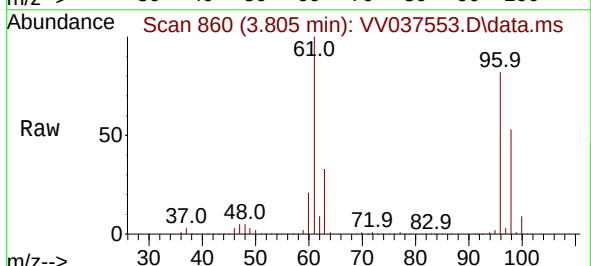
Ion	Ratio	Lower	Upper
63	100		
65	32.7	22.4	41.6
83	14.0	9.5	17.7

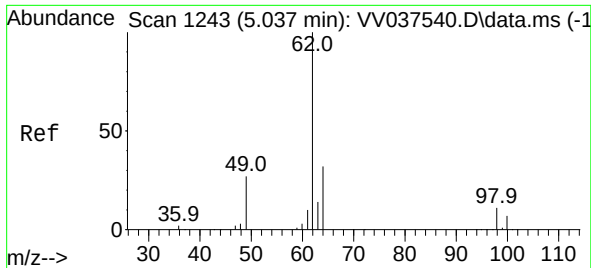


#20
cis-1,2-Dichloroethene
Concen: 643.134 ug/L
RT: 3.805 min Scan# 860
Delta R.T. -0.003 min
Lab File: VV037553.D
Acq: 26 Sep 2024 17:11

Tgt Ion: 96 Resp: 3546672

Ion	Ratio	Lower	Upper
96	100		
61	121.4	85.0	157.8
98	64.8	44.2	82.0

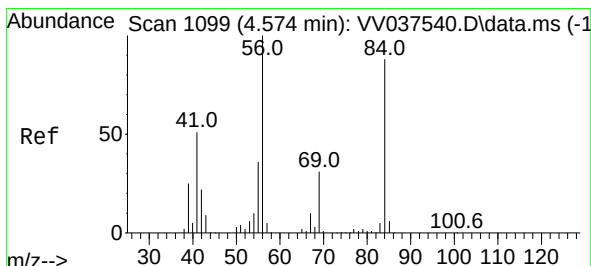
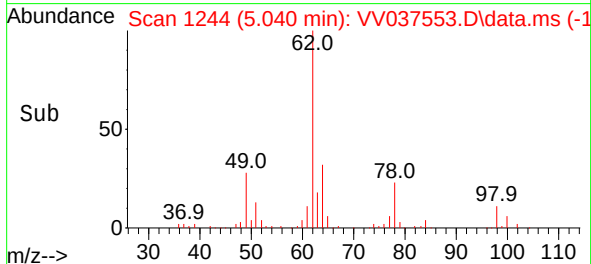
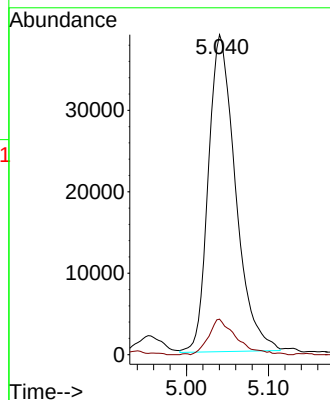
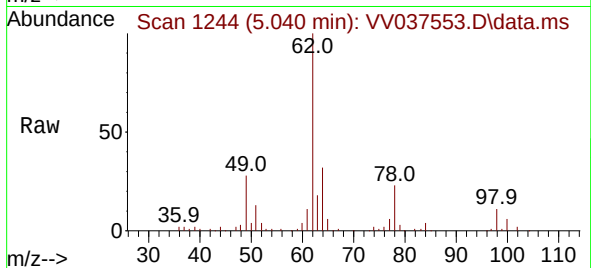




#27
1,2-Dichloroethane
Concen: 13.006 ug/L
RT: 5.040 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV037553.D
Acq: 26 Sep 2024 17:11

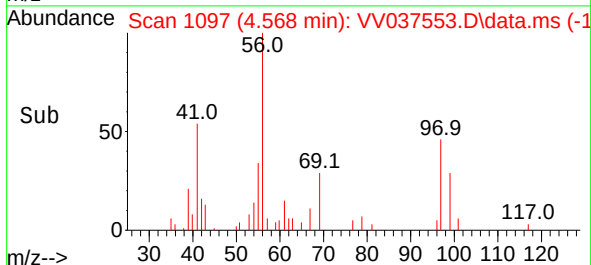
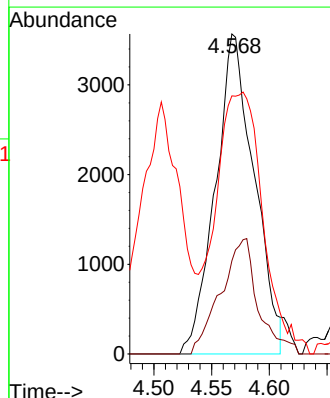
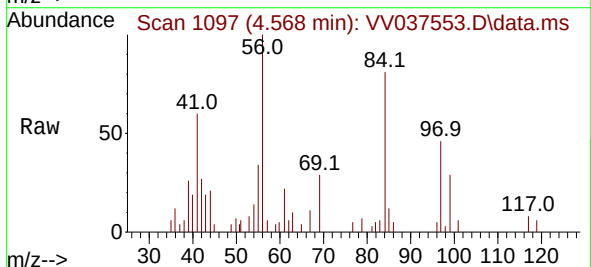
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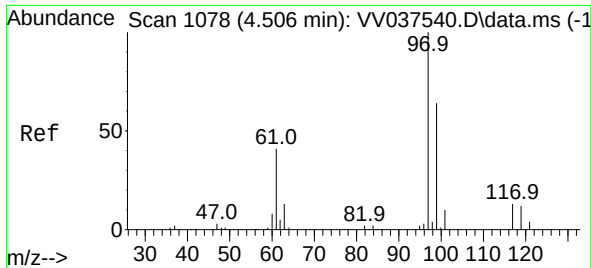
Tgt Ion: 62 Resp: 89760
Ion Ratio Lower Upper
62 100
98 11.1 8.4 12.6



#29
Cyclohexane
Concen: 1.104 ug/L
RT: 4.568 min Scan# 1097
Delta R.T. -0.006 min
Lab File: VV037553.D
Acq: 26 Sep 2024 17:11

Tgt Ion: 56 Resp: 8339
Ion Ratio Lower Upper
56 100
69 34.6 24.7 37.1
84 23.4 73.4 110.0#

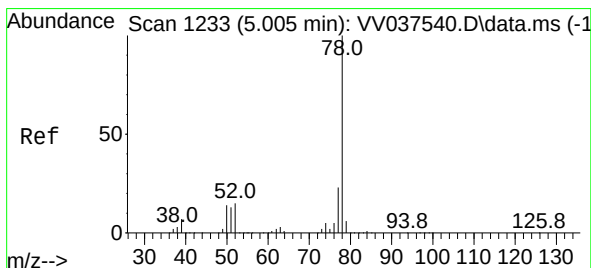
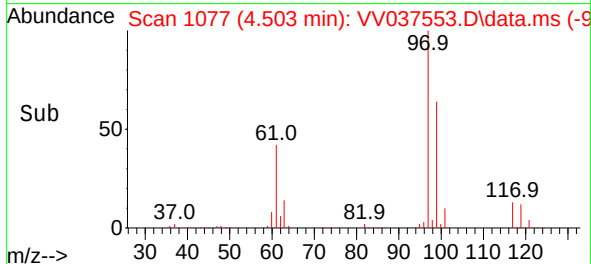
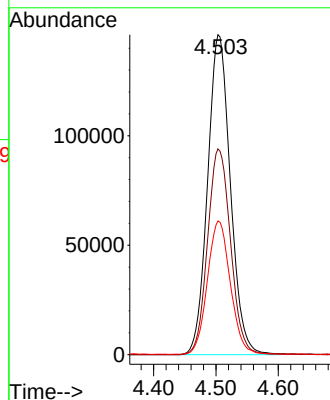
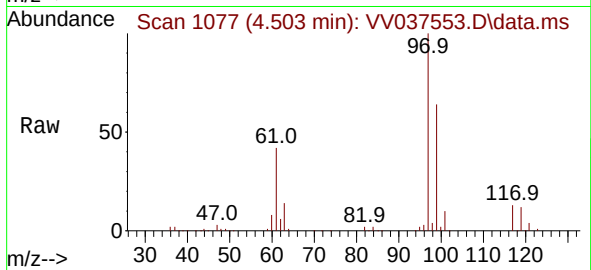




#30
1,1,1-Trichloroethane
Concen: 45.300 ug/L
RT: 4.503 min Scan# 1077
Delta R.T. -0.003 min
Lab File: VV037553.D
Acq: 26 Sep 2024 17:11

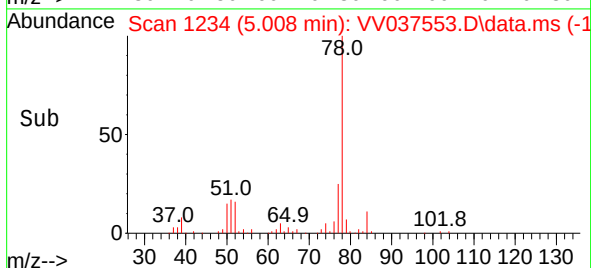
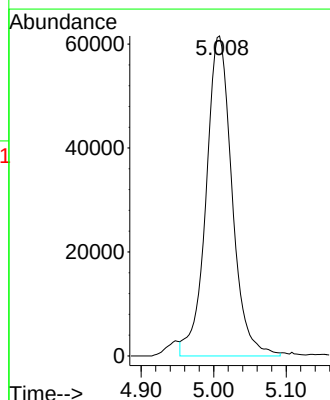
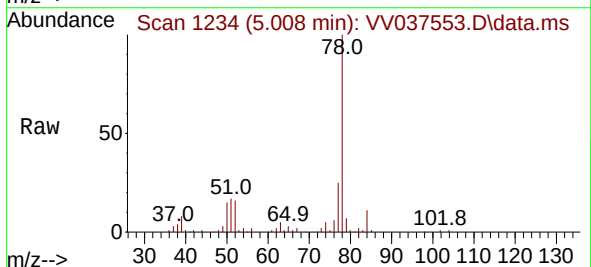
Instrument :
MSVOA_V
ClientSampleId :

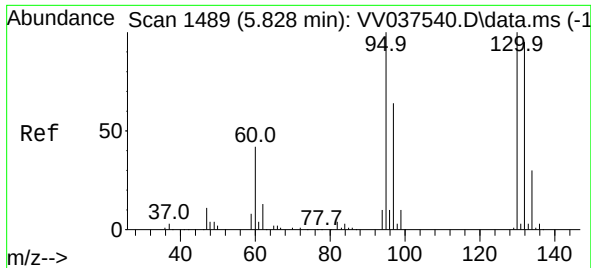
Tgt Ion: 97 Resp: 371032
Ion Ratio Lower Upper
97 100
99 64.9 51.8 77.6
61 41.9 33.6 50.4



#33
Benzene
Concen: 7.619 ug/L
RT: 5.008 min Scan# 1234
Delta R.T. 0.003 min
Lab File: VV037553.D
Acq: 26 Sep 2024 17:11

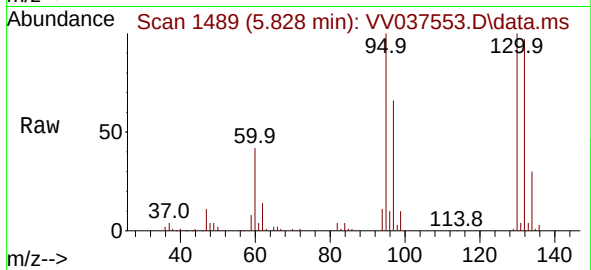
Tgt Ion: 78 Resp: 152801



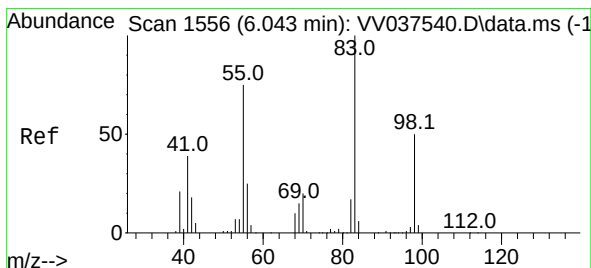
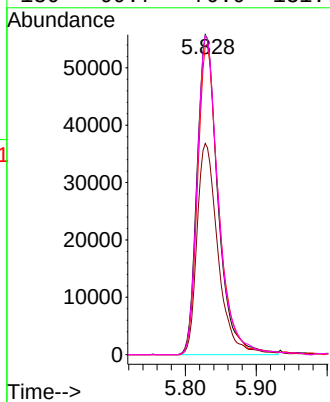
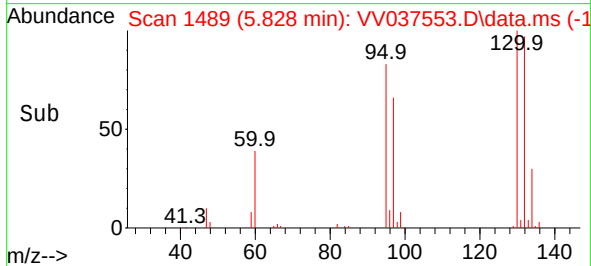


#34
Trichloroethene
Concen: 21.443 ug/L
RT: 5.828 min Scan# 1489
Delta R.T. -0.000 min
Lab File: VV037553.D
Acq: 26 Sep 2024 17:11

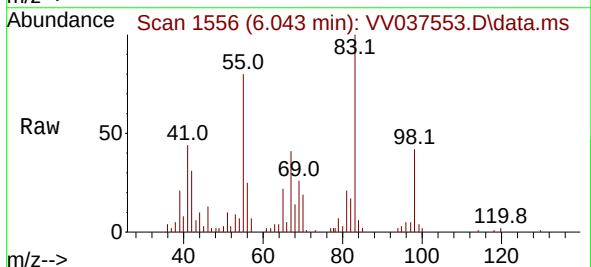
Instrument :
MSVOA_V
ClientSampleId :



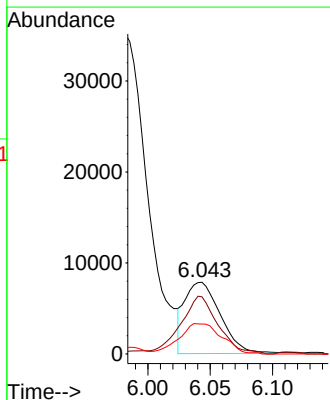
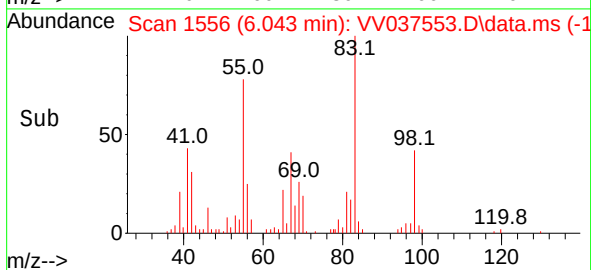
Tgt Ion: 95 Resp: 114531
Ion Ratio Lower Upper
95 100
97 66.0 46.3 85.9
132 96.5 68.6 127.4
130 99.7 70.9 131.7

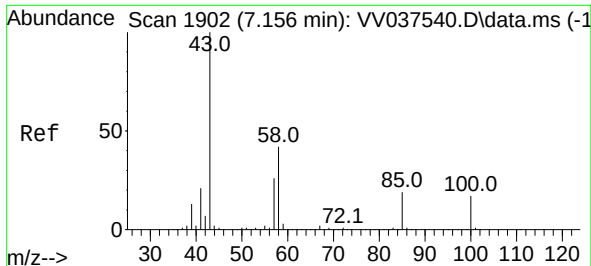


#35
Methylcyclohexane
Concen: 1.886 ug/L
RT: 6.043 min Scan# 1556
Delta R.T. -0.000 min
Lab File: VV037553.D
Acq: 26 Sep 2024 17:11



Tgt Ion: 83 Resp: 15496
Ion Ratio Lower Upper
83 100
55 85.0 57.9 86.9
98 51.3 39.3 58.9





#40

4-Methyl-2-pentanone

Concen: 18.461 ug/L

RT: 7.162 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VV037553.D

Acq: 26 Sep 2024 17:11

Instrument :

MSVOA_V

ClientSampleId :

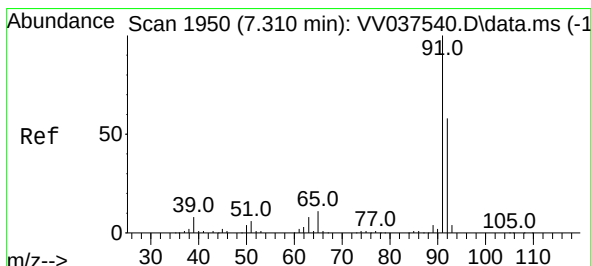
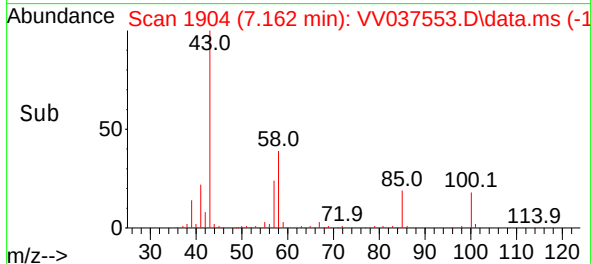
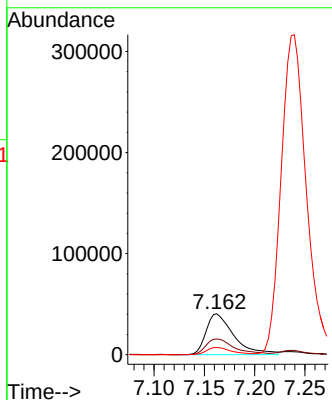
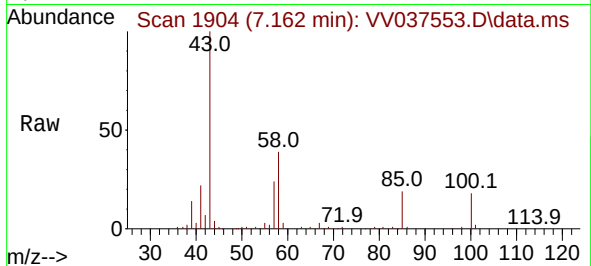
Tgt Ion: 43 Resp: 77845

Ion Ratio Lower Upper

43 100

58 39.5 33.0 49.4

100 15.9 13.7 20.5



#42

Toluene

Concen: 24.856 ug/L

RT: 7.310 min Scan# 1950

Delta R.T. -0.000 min

Lab File: VV037553.D

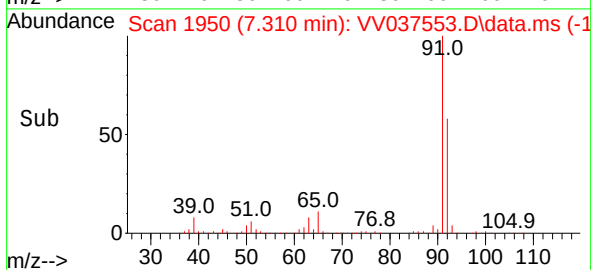
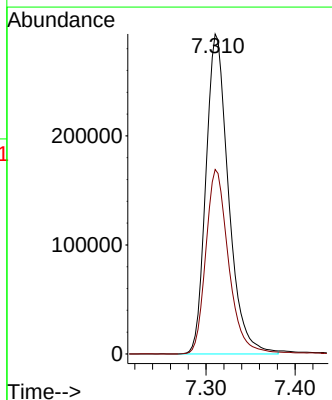
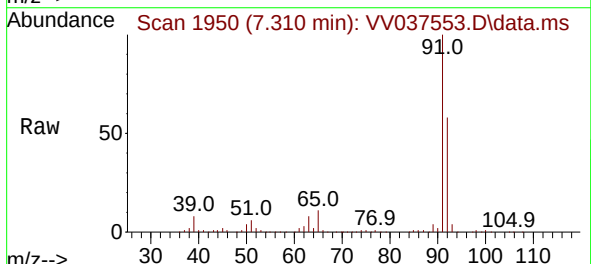
Acq: 26 Sep 2024 17:11

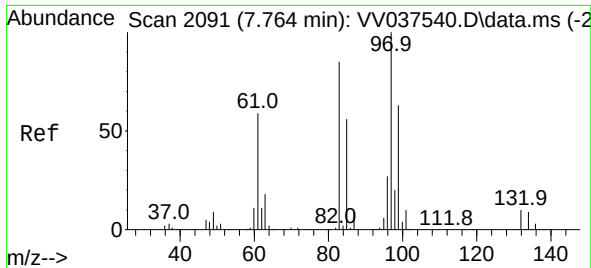
Tgt Ion: 91 Resp: 516809

Ion Ratio Lower Upper

91 100

92 57.7 41.1 76.3





#45

1,1,2-Trichloroethane

Concen: 1.798 ug/L

RT: 7.773 min Scan# 2091

Delta R.T. 0.010 min

Lab File: VV037553.D

Acq: 26 Sep 2024 17:11

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 97 Resp: 8940

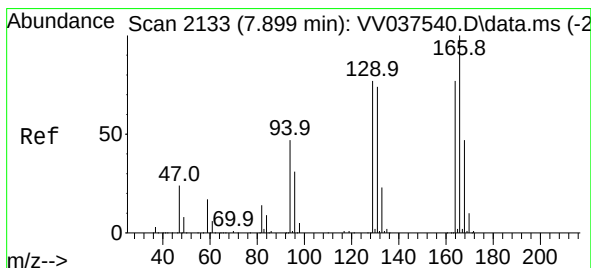
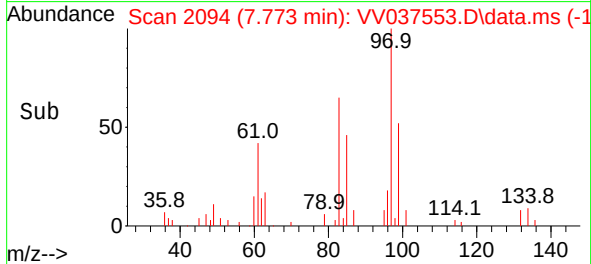
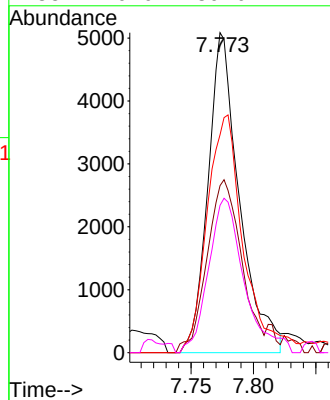
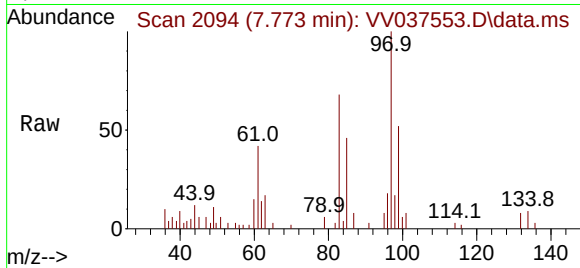
Ion Ratio Lower Upper

97 100

99 52.2 44.1 81.9

83 68.1 59.3 110.1

85 46.0 39.0 72.4



#46

Tetrachloroethene

Concen: 2.851 ug/L

RT: 7.905 min Scan# 2135

Delta R.T. 0.006 min

Lab File: VV037553.D

Acq: 26 Sep 2024 17:11

Tgt Ion:164 Resp: 11641

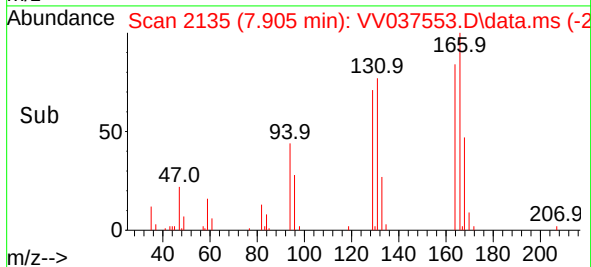
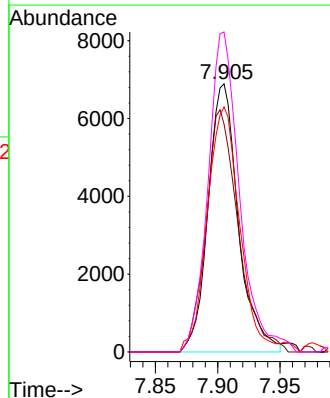
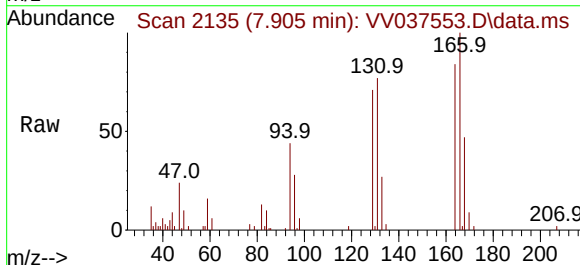
Ion Ratio Lower Upper

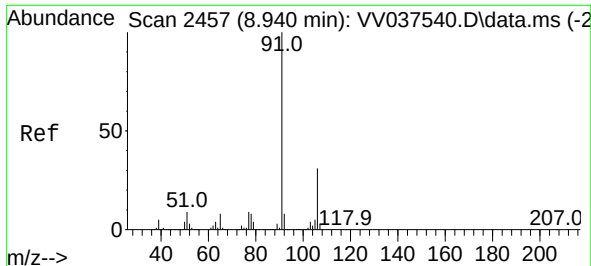
164 100

129 84.9 68.2 126.6

131 91.3 66.1 122.8

166 119.3 91.1 169.1





#52

Ethylbenzene

Concen: 98.379 ug/L

RT: 8.940 min Scan# 2457

Delta R.T. -0.000 min

Lab File: VV037553.D

Acq: 26 Sep 2024 17:11

Instrument :

MSVOA_V

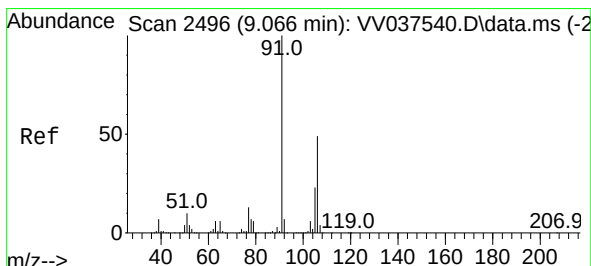
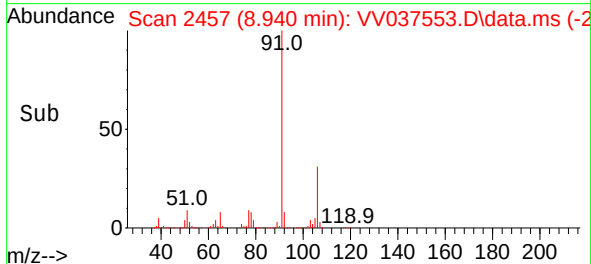
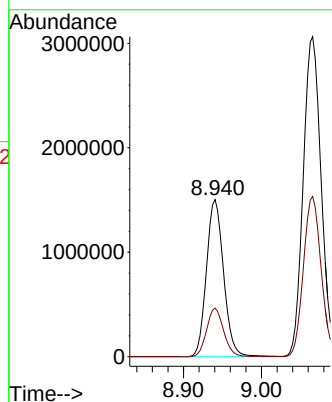
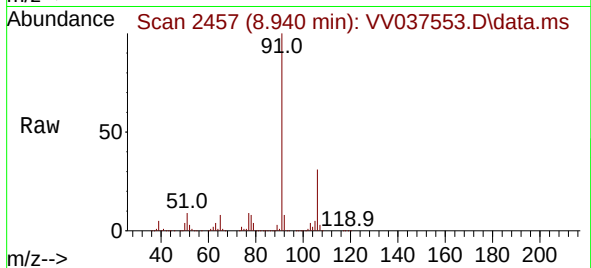
ClientSampleId :

Tgt Ion: 91 Resp: 2302517

Ion Ratio Lower Upper

91 100

106 30.8 21.9 40.7



#53

m,p-Xylene

Concen: 279.554 ug/L

RT: 9.066 min Scan# 2496

Delta R.T. -0.000 min

Lab File: VV037553.D

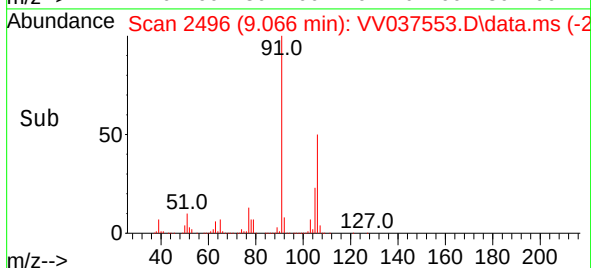
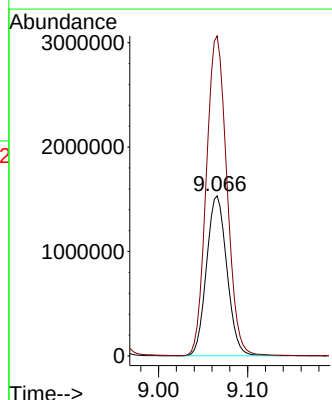
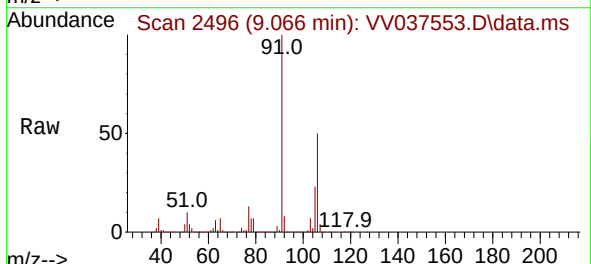
Acq: 26 Sep 2024 17:11

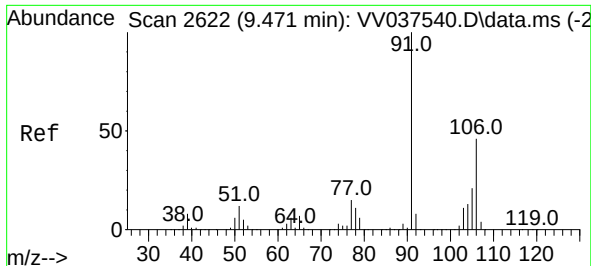
Tgt Ion:106 Resp: 2435031

Ion Ratio Lower Upper

106 100

91 199.9 142.0 263.6

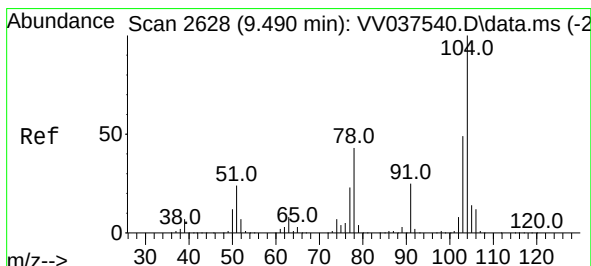
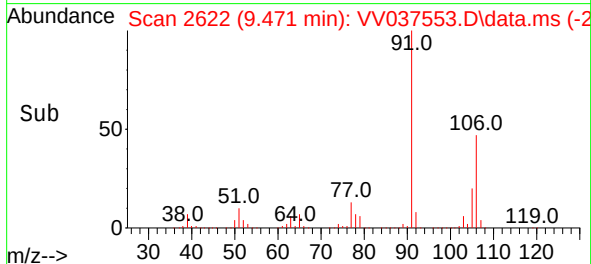
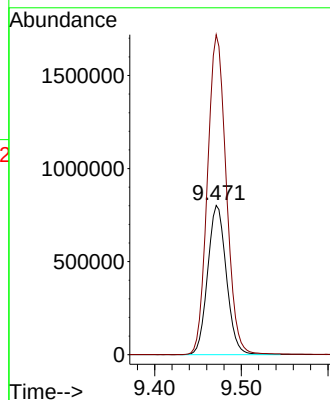
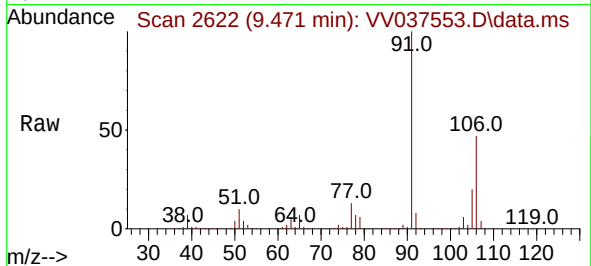




#54
o-Xylene
Concen: 141.233 ug/L
RT: 9.471 min Scan# 2622
Delta R.T. -0.000 min
Lab File: VV037553.D
Acq: 26 Sep 2024 17:11

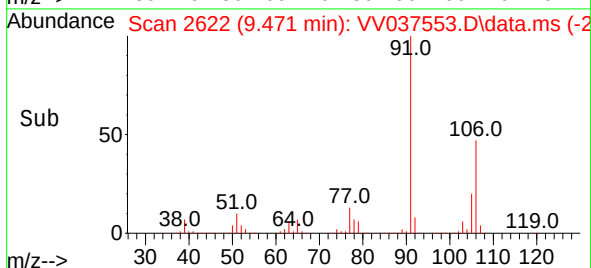
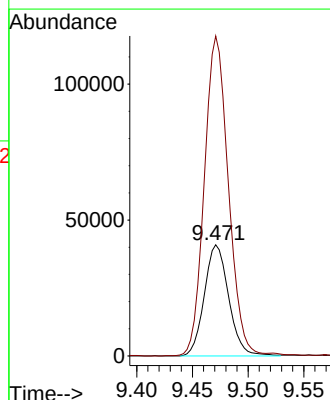
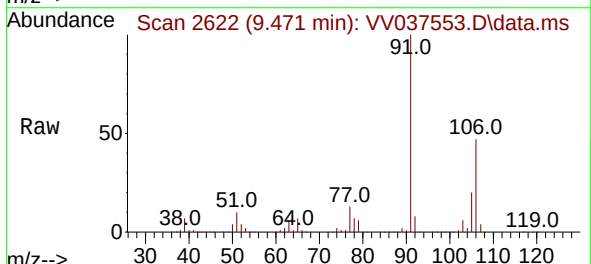
Instrument :
MSVOA_V
ClientSampleId :

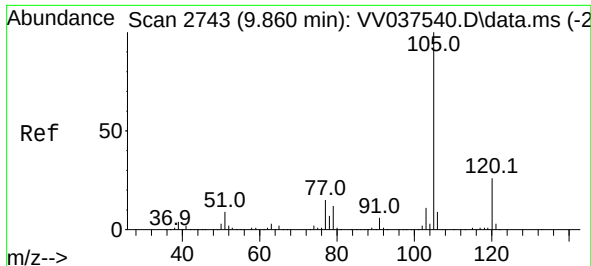
Tgt Ion:106 Resp: 1201029
Ion Ratio Lower Upper
106 100
91 214.3 153.9 285.9



#55
Styrene
Concen: 4.209 ug/L
RT: 9.471 min Scan# 2622
Delta R.T. -0.019 min
Lab File: VV037553.D
Acq: 26 Sep 2024 17:11

Tgt Ion:104 Resp: 62303
Ion Ratio Lower Upper
104 100
78 287.7 30.0 55.6#





#60

Isopropylbenzene

Concen: 11.202 ug/L

RT: 9.863 min Scan# 21

Delta R.T. 0.003 min

Lab File: VV037553.D

Acq: 26 Sep 2024 17:11

Instrument :

MSVOA_V

ClientSampleId :

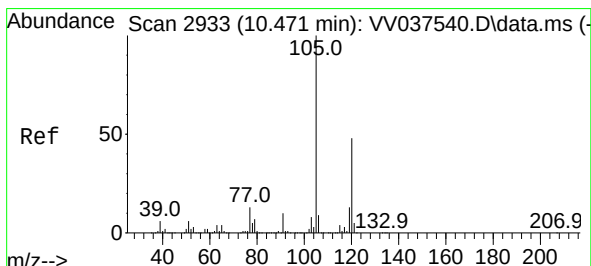
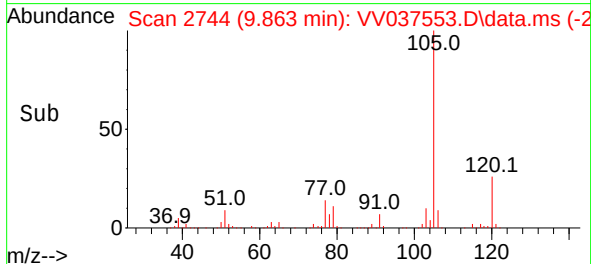
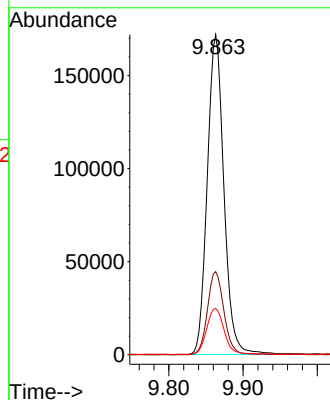
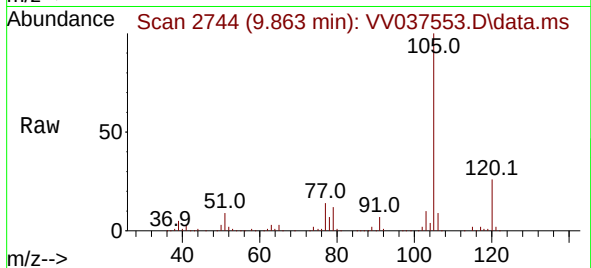
Tgt Ion:105 Resp: 266535

Ion Ratio Lower Upper

105 100

120 25.7 20.7 31.1

77 14.9 12.2 18.2



#62

1,3,5-Trimethylbenzene

Concen: 95.524 ug/L

RT: 10.471 min Scan# 2933

Delta R.T. -0.000 min

Lab File: VV037553.D

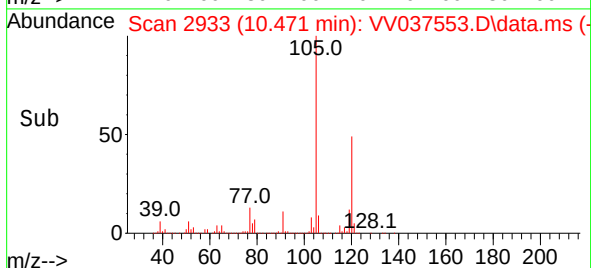
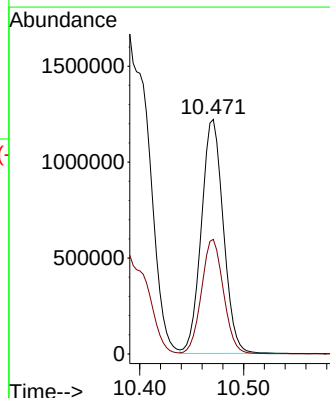
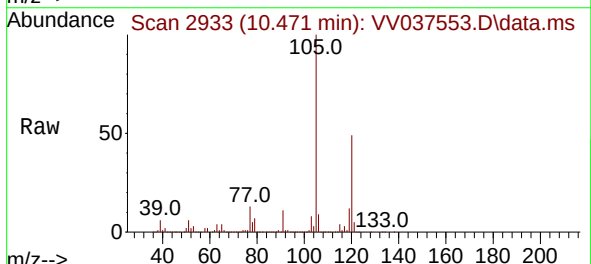
Acq: 26 Sep 2024 17:11

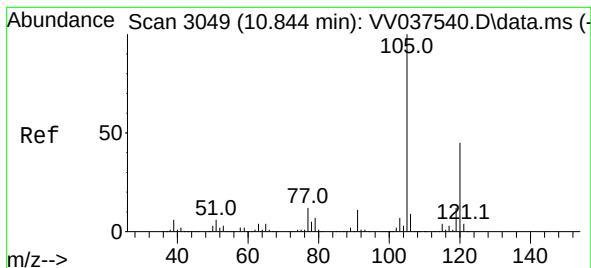
Tgt Ion:105 Resp: 1796996

Ion Ratio Lower Upper

105 100

120 48.8 39.3 58.9





#63

1,2,4-Trimethylbenzene

Concen: 572.881 ug/L

RT: 10.847 min Scan# 3049

Delta R.T. 0.003 min

Lab File: VV037553.D

Acq: 26 Sep 2024 17:11

Instrument :

MSVOA_V

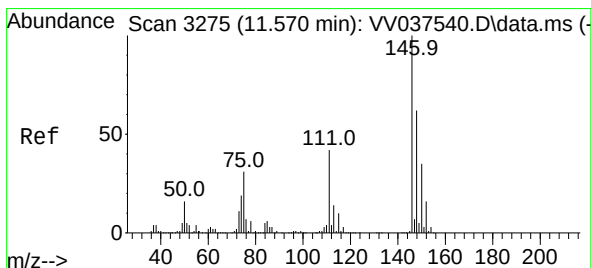
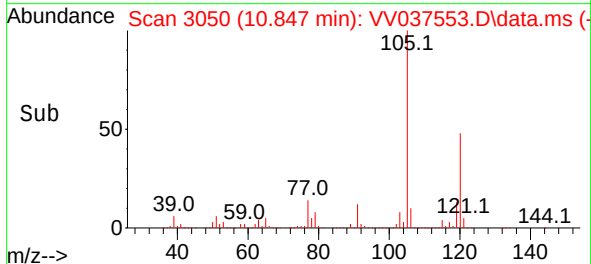
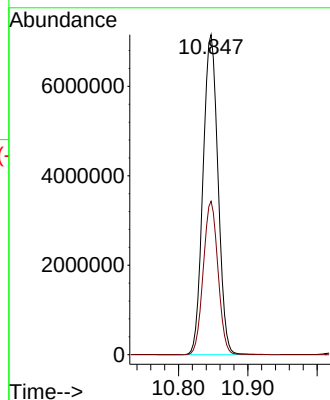
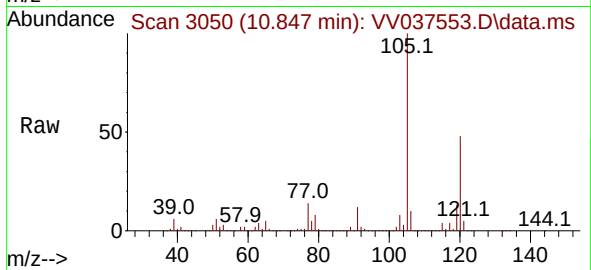
ClientSampleId :

Tgt Ion:105 Resp:10722779

Ion Ratio Lower Upper

105 100

120 47.0 36.2 54.2



#67

1,2-Dichlorobenzene

Concen: 10.107 ug/L

RT: 11.574 min Scan# 3276

Delta R.T. 0.003 min

Lab File: VV037553.D

Acq: 26 Sep 2024 17:11

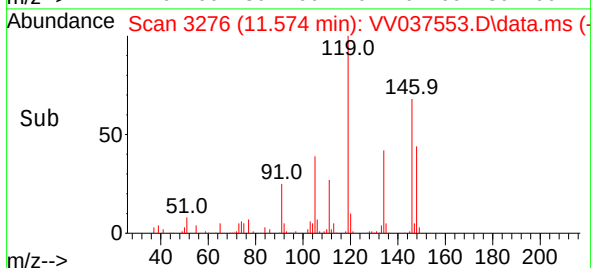
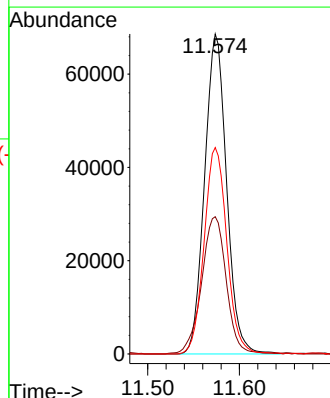
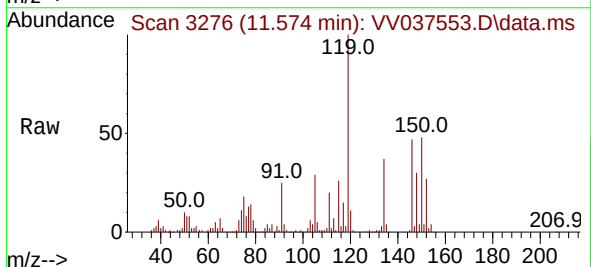
Tgt Ion:146 Resp: 114436

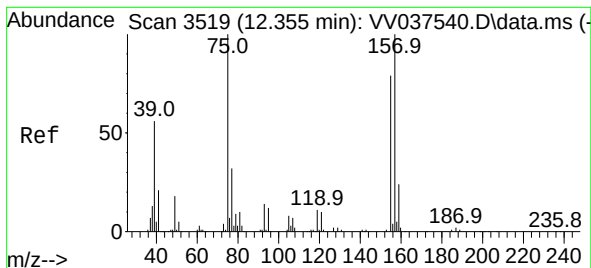
Ion Ratio Lower Upper

146 100

111 42.9 34.2 51.2

148 64.5 50.9 76.3





#68

1,2-Dibromo-3-chloropropane

Concen: 1.335 ug/L

RT: 12.349 min Scan# 3517

Delta R.T. -0.006 min

Lab File: VV037553.D

Acq: 26 Sep 2024 17:11

Instrument :

MSVOA_V

ClientSampleId :

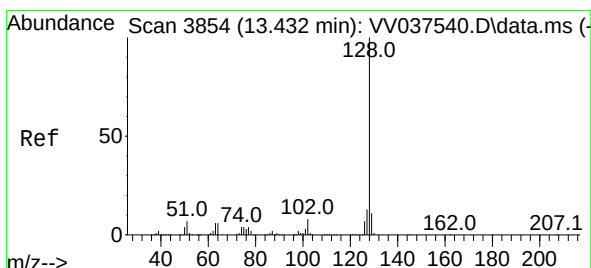
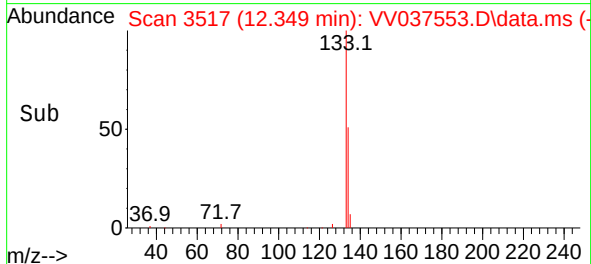
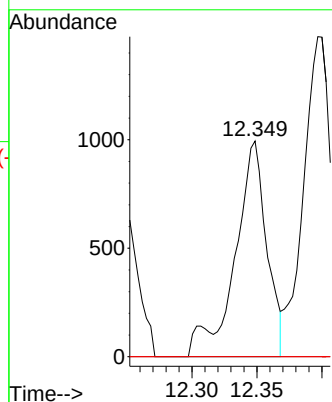
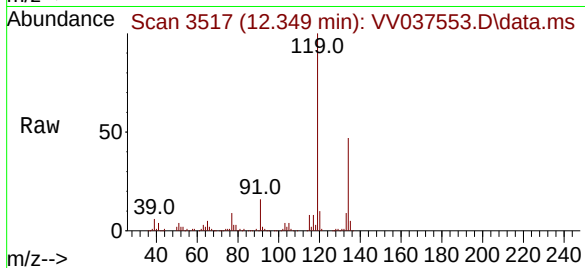
Tgt Ion: 75 Resp: 1688

Ion Ratio Lower Upper

75 100

155 0.0 66.2 99.4#

157 0.0 87.3 130.9#



#71

Naphthalene

Concen: 24.887 ug/L

RT: 13.432 min Scan# 3854

Delta R.T. -0.000 min

Lab File: VV037553.D

Acq: 26 Sep 2024 17:11

Tgt Ion:128 Resp: 475129

Ion Ratio Lower Upper

128 100

127 12.4 10.2 15.4

129 10.7 8.5 12.7

