

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092624\
 Data File : VV037580.D
 Acq On : 27 Sep 2024 03:41
 Operator : SY/MD
 Sample : P4185-04
 Misc : 5mL/MSVOA_V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 27 05:58:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM092624WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 27 02:22:28 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	687774	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.780	117	648947	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.178	152	360275	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.404	65	259	0.043	ug/L	0.13
Spiked Amount 50.000	Range 60 - 135		Recovery =	0.080%#		
7) Chloroethane-d5	1.532	69	199893	42.654	ug/L	0.00
Spiked Amount 50.000	Range 70 - 130		Recovery =	85.300%		
11) 1,1-Dichloroethene-d2	2.059	65	108294	42.932	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	85.860%		
21) 2-Butanone-d5	3.789	46	196206	91.239	ug/L	0.00
Spiked Amount 100.000	Range 40 - 130		Recovery =	91.240%		
24) Chloroform-d	4.243	84	456579	42.506	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	85.020%		
26) 1,2-Dichloroethane-d4	4.937	65	276638	43.999	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	88.000%		
32) Benzene-d6	4.953	84	910570	44.841	ug/L	0.00
Spiked Amount 50.000	Range 70 - 125		Recovery =	89.680%		
36) 1,2-Dichloropropane-d6	5.982	67	296509	45.855	ug/L	0.00
Spiked Amount 50.000	Range 70 - 120		Recovery =	91.700%		
41) Toluene-d8	7.236	98	823872	44.743	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	89.480%		
43) trans-1,3-Dichloroprop...	7.548	79	130124	43.319	ug/L	0.00
Spiked Amount 50.000	Range 60 - 125		Recovery =	86.640%		
47) 2-Hexanone-d5	8.024	63	130903	95.870	ug/L	0.00
Spiked Amount 100.000	Range 45 - 130		Recovery =	95.870%		
56) 1,1,2,2-Tetrachloroeth...	10.146	84	332962	44.316	ug/L	0.00
Spiked Amount 50.000	Range 65 - 120		Recovery =	88.640%		
66) 1,2-Dichlorobenzene-d4	11.554	152	343218	45.210	ug/L	0.00
Spiked Amount 50.000	Range 80 - 120		Recovery =	90.420%		
Target Compounds						Qvalue
8) Chloroethane	1.548	64	107975	28.747	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.059	101	3874	0.790	ug/L #	23
12) 1,1-Dichloroethene	2.069	96	158376	34.589	ug/L	98
13) Acetone	2.114	43	9973	4.731	ug/L	98
15) Methyl Acetate	2.371	43	8961	2.436	ug/L	93
16) Methylene chloride	2.442	84	23020	4.440	ug/L	95
17) trans-1,2-Dichloroethene	2.690	96	445741	92.019	ug/L	99
20) cis-1,2-Dichloroethene	3.805	96	6106101	1126.445	ug/L	99
22) 2-Butanone	3.886	43	45858	19.653	ug/L	82
27) 1,2-Dichloroethane	5.040	62	64658	9.531	ug/L	99
29) Cyclohexane	4.574	56	31336	4.253	ug/L	100
30) 1,1,1-Trichloroethane	4.506	97	524281	65.596	ug/L	99
31) Carbon tetrachloride	4.503	117	68561	9.866	ug/L	98
33) Benzene	5.005	78	223721	11.431	ug/L	100
34) Trichloroethene	5.837	95	12993	2.493	ug/L	96
35) Methylcyclohexane	6.043	83	65871	8.215	ug/L	95
39) cis-1,3-Dichloropropene	6.911	75	7900	0.979	ug/L #	60
40) 4-Methyl-2-pentanone	7.172	43	13703	3.330	ug/L	94
42) Toluene	7.307	91	6852085	337.714	ug/L	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092624\
 Data File : VV037580.D
 Acq On : 27 Sep 2024 03:41
 Operator : SY/MD
 Sample : P4185-04
 Misc : 5mL/MSVOA_V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Sep 27 05:58:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM092624WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Sep 27 02:22:28 2024
 Response via : Initial Calibration

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

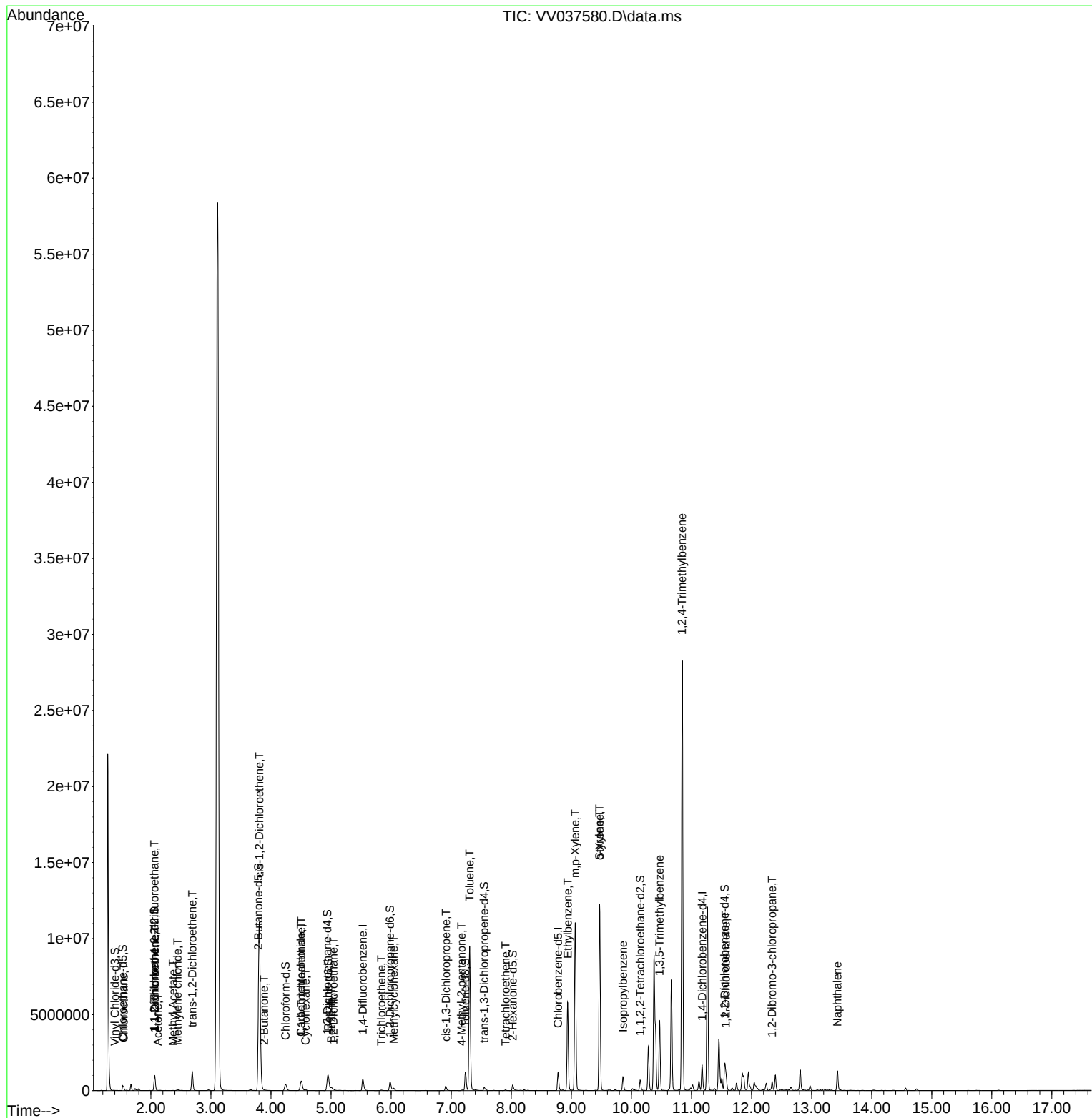
46) Tetrachloroethene	7.905	164	10902	2.736	ug/L	90
52) Ethylbenzene	8.940	91	3970946	173.867	ug/L	100
53) m,p-Xylene	9.066	106	3034903	357.048	ug/L	99
54) o-Xylene	9.471	106	3150645	379.667	ug/L	95
55) Styrene	9.471	104	155875	10.790	ug/L #	1
60) Isopropylbenzene	9.860	105	585323	24.989	ug/L	100
62) 1,3,5-Trimethylbenzene	10.468	105	2427451	131.084	ug/L	99
63) 1,2,4-Trimethylbenzene	10.844	105	14009328	760.336	ug/L	93
67) 1,2-Dichlorobenzene	11.574	146	43829	3.933	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.342	75	2888	2.321	ug/L #	1
71) Naphthalene	13.429	128	1030497	54.832	ug/L	99

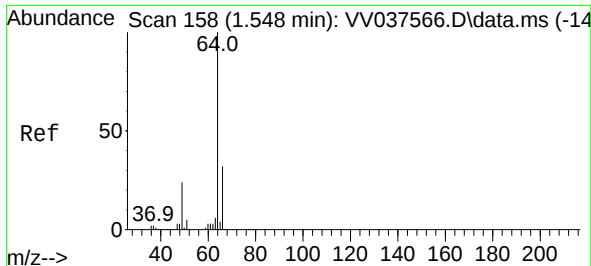
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV092624\
Data File : VV037580.D
Acq On : 27 Sep 2024 03:41
Operator : SY/MD
Sample : P4185-04
Misc : 5mL/MSVOA_V/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :

Quant Time: Sep 27 05:58:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM092624WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Sep 27 02:22:28 2024
Response via : Initial Calibration

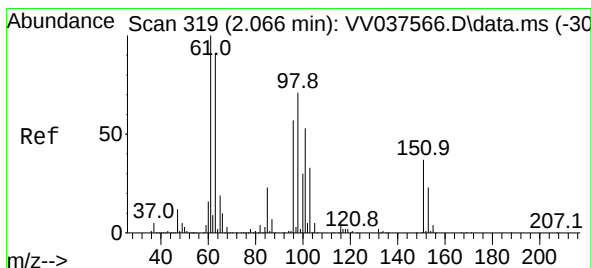
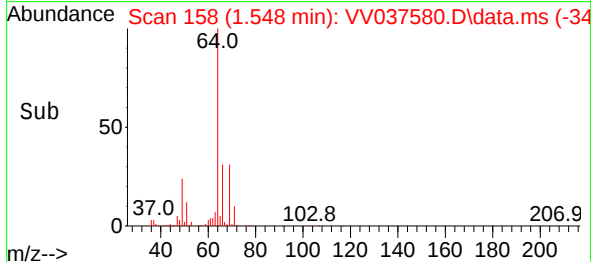
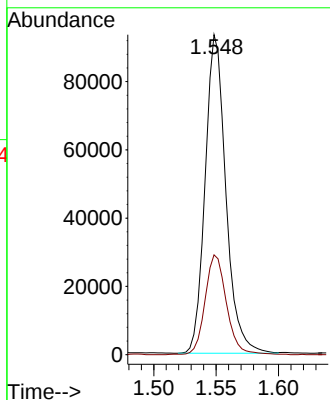
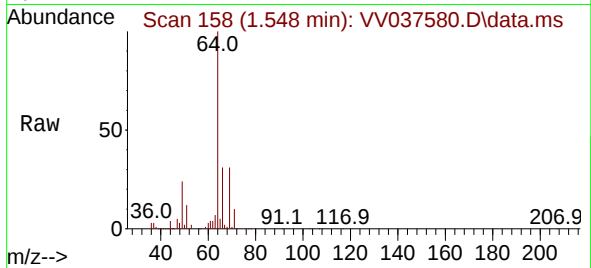




#8
Chloroethane
Concen: 28.747 ug/L
RT: 1.548 min Scan# 11
Delta R.T. -0.000 min
Lab File: VV037580.D
Acq: 27 Sep 2024 03:41

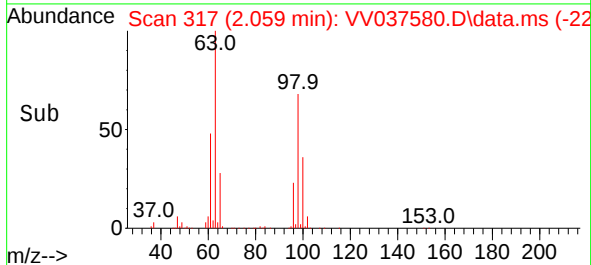
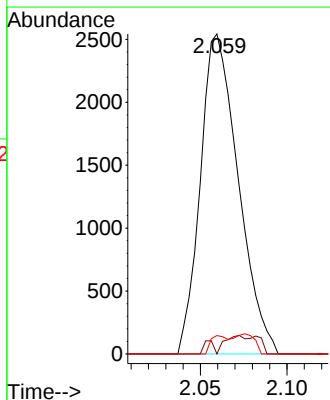
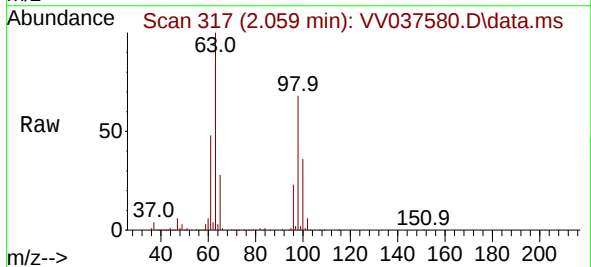
Instrument :
MSVOA_V
ClientSampleId :

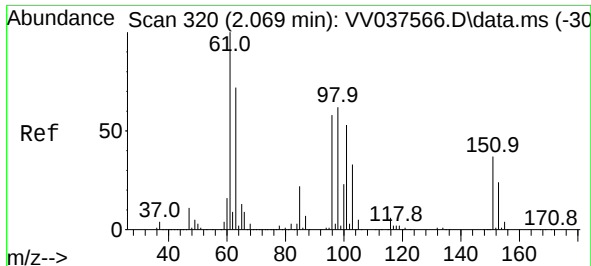
Tgt Ion: 64 Resp: 107975
Ion Ratio Lower Upper
64 100
66 31.2 22.2 41.2



#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.790 ug/L
RT: 2.059 min Scan# 317
Delta R.T. -0.007 min
Lab File: VV037580.D
Acq: 27 Sep 2024 03:41

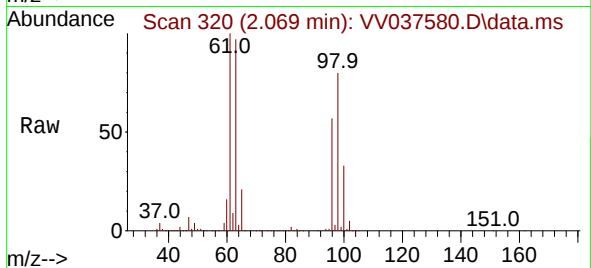
Tgt Ion:101 Resp: 3874
Ion Ratio Lower Upper
101 100
85 1.0 34.6 52.0#
151 2.6 57.5 86.3#



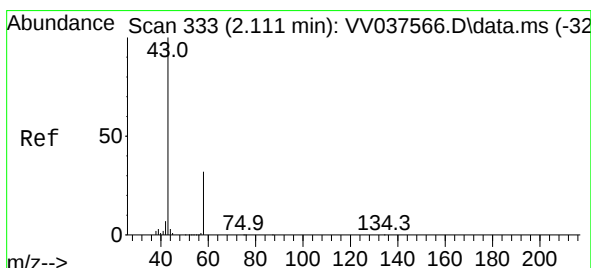
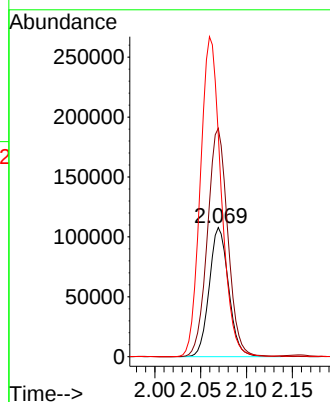
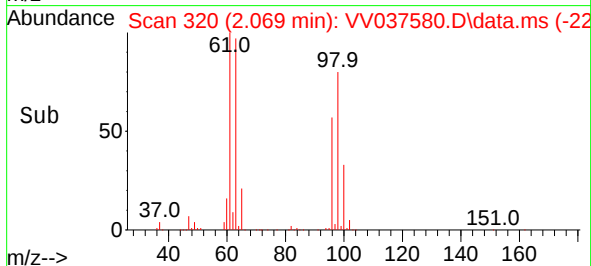


#12
 1,1-Dichloroethene
 Concen: 34.589 ug/L
 RT: 2.069 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VV037580.D
 Acq: 27 Sep 2024 03:41

Instrument :
 MSVOA_V
 ClientSampleId :

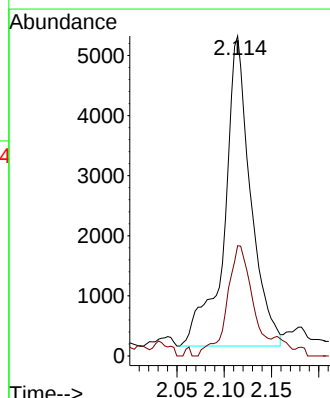
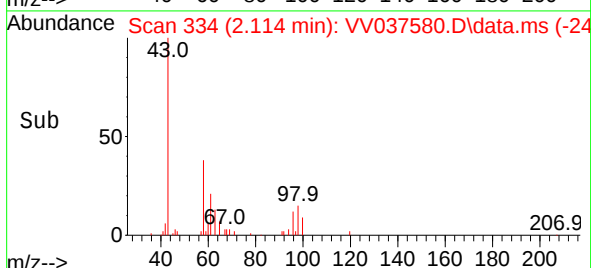
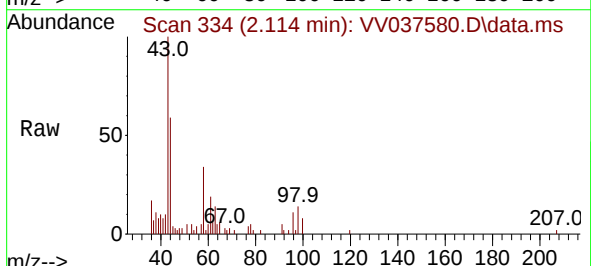


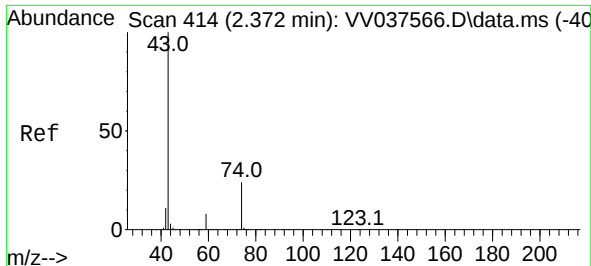
Tgt Ion: 96 Resp: 158376
 Ion Ratio Lower Upper
 96 100
 61 176.9 122.6 227.6
 63 172.2 118.0 219.2



#13
 Acetone
 Concen: 4.731 ug/L
 RT: 2.114 min Scan# 334
 Delta R.T. 0.003 min
 Lab File: VV037580.D
 Acq: 27 Sep 2024 03:41

Tgt Ion: 43 Resp: 9973
 Ion Ratio Lower Upper
 43 100
 58 34.4 0.0 66.6





#15

Methyl Acetate

Concen: 2.436 ug/L

RT: 2.371 min Scan# 414

Delta R.T. -0.000 min

Lab File: VV037580.D

Acq: 27 Sep 2024 03:41

Instrument :

MSVOA_V

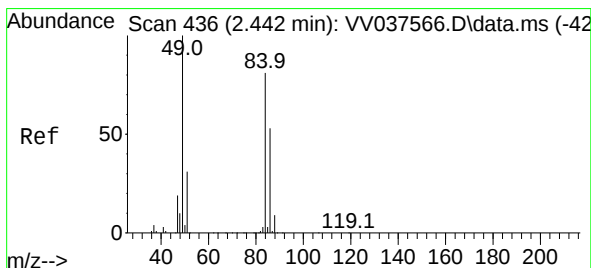
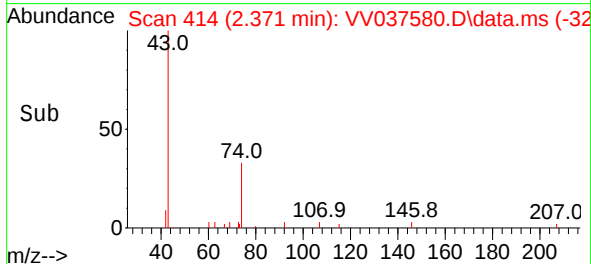
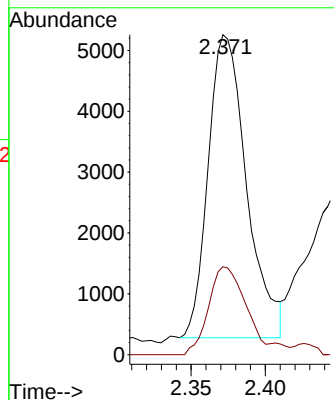
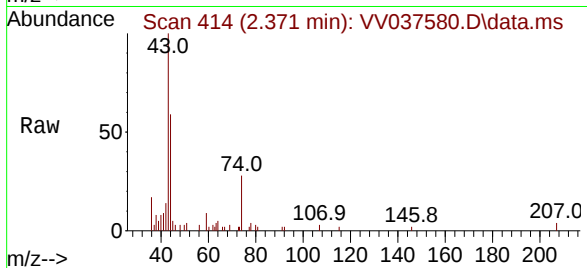
ClientSampleId :

Tgt Ion: 43 Resp: 8961

Ion Ratio Lower Upper

43 100

74 27.7 19.4 29.0



#16

Methylene chloride

Concen: 4.440 ug/L

RT: 2.442 min Scan# 436

Delta R.T. -0.000 min

Lab File: VV037580.D

Acq: 27 Sep 2024 03:41

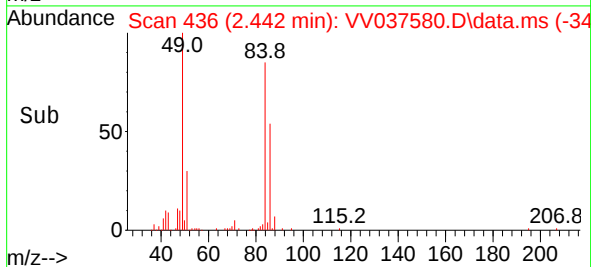
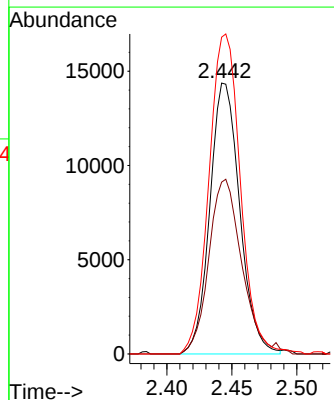
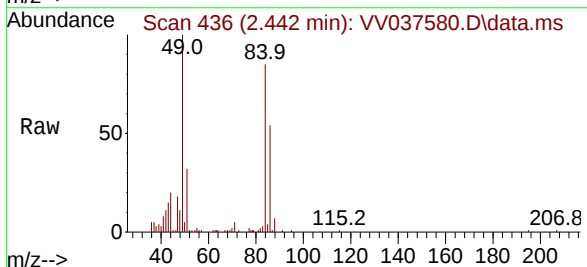
Tgt Ion: 84 Resp: 23020

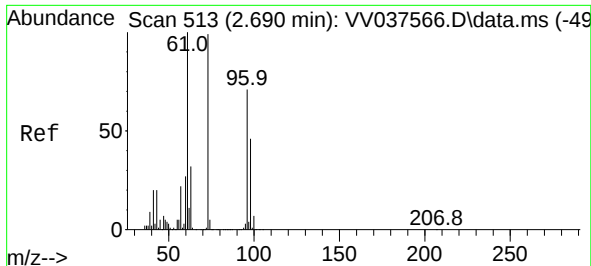
Ion Ratio Lower Upper

84 100

86 63.5 46.4 86.2

49 117.0 85.9 159.5





#17

trans-1,2-Dichloroethene

Concen: 92.019 ug/L

RT: 2.690 min Scan# 513

Delta R.T. -0.000 min

Lab File: VV037580.D

Acq: 27 Sep 2024 03:41

Instrument :

MSVOA_V

ClientSampleId :

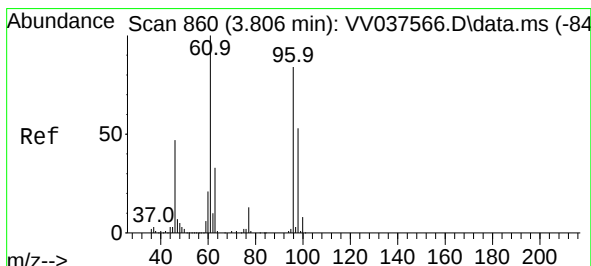
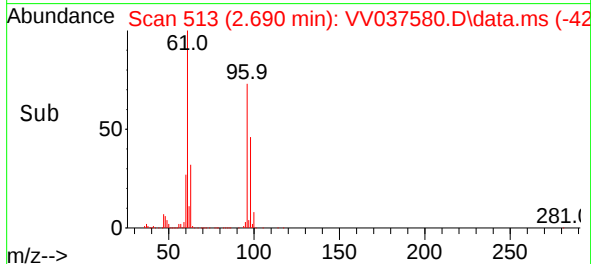
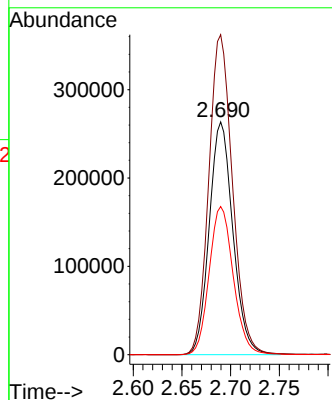
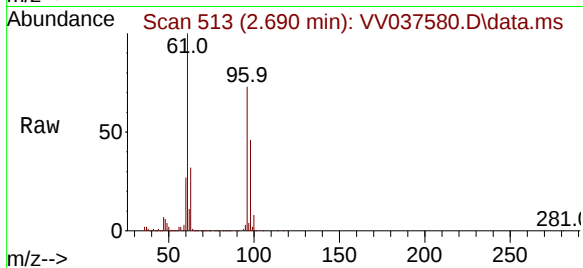
Tgt Ion: 96 Resp: 445741

Ion Ratio Lower Upper

96 100

61 137.5 97.3 180.7

98 63.6 43.9 81.5



#20

cis-1,2-Dichloroethene

Concen: 1126.445 ug/L

RT: 3.805 min Scan# 860

Delta R.T. -0.000 min

Lab File: VV037580.D

Acq: 27 Sep 2024 03:41

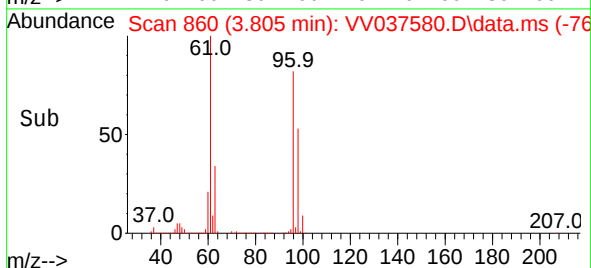
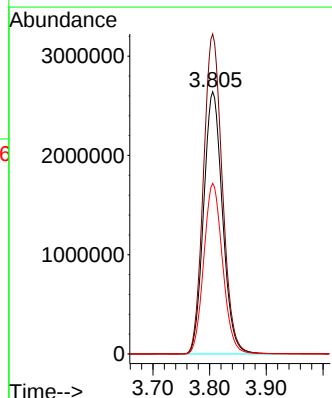
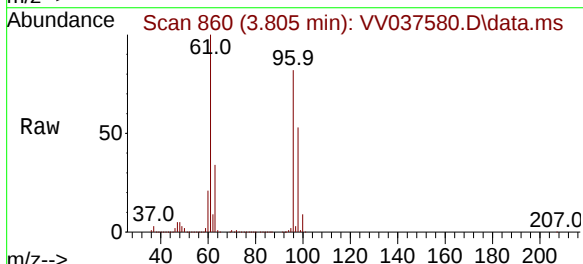
Tgt Ion: 96 Resp: 6106101

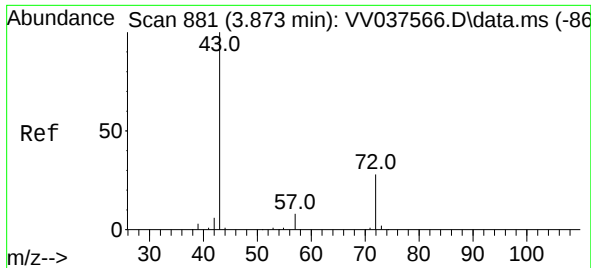
Ion Ratio Lower Upper

96 100

61 122.0 85.0 157.8

98 65.0 44.2 82.0

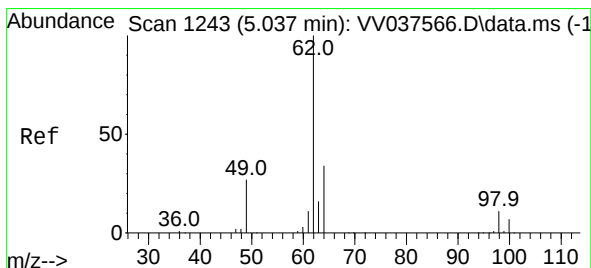
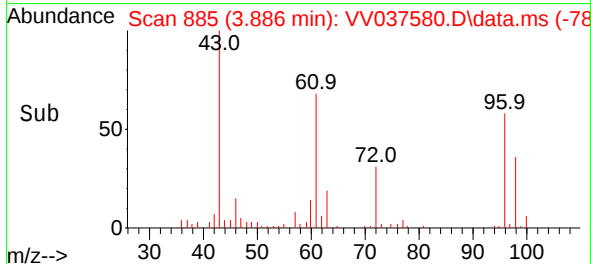
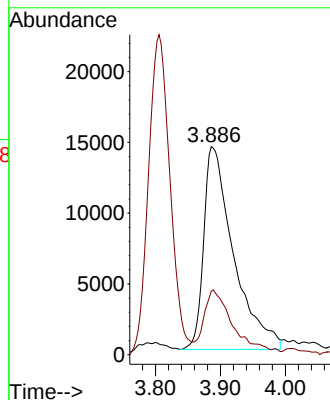
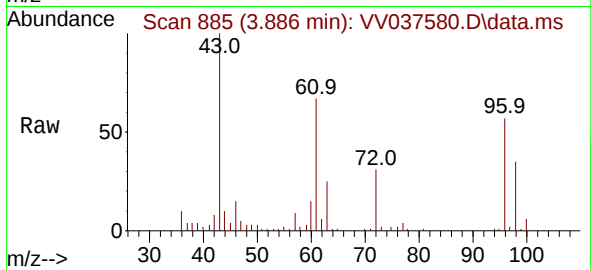




#22
2-Butanone
Concen: 19.653 ug/L
RT: 3.886 min Scan# 881
Delta R.T. 0.013 min
Lab File: VV037580.D
Acq: 27 Sep 2024 03:41

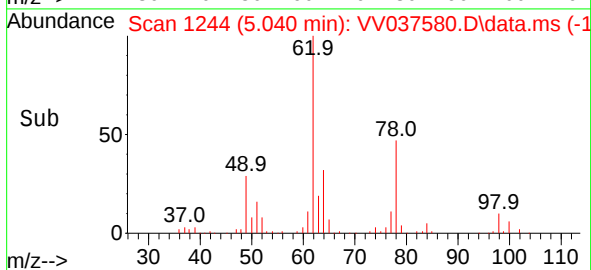
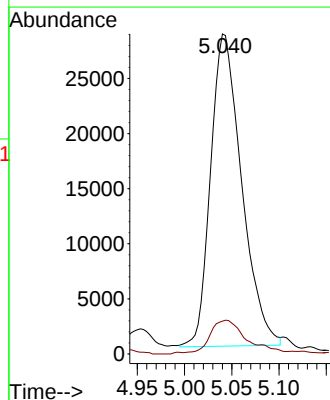
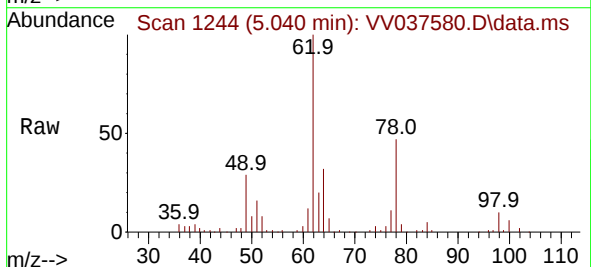
Instrument :
MSVOA_V
ClientSampleId :

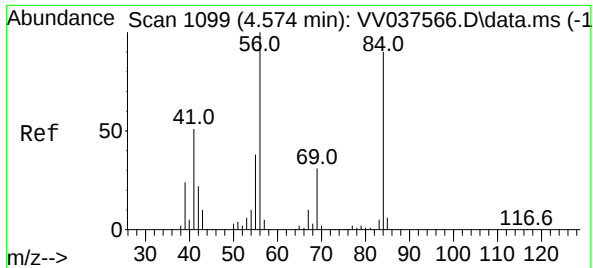
Tgt Ion: 43 Resp: 45858
Ion Ratio Lower Upper
43 100
72 19.0 14.3 42.9



#27
1,2-Dichloroethane
Concen: 9.531 ug/L
RT: 5.040 min Scan# 1244
Delta R.T. 0.003 min
Lab File: VV037580.D
Acq: 27 Sep 2024 03:41

Tgt Ion: 62 Resp: 64658
Ion Ratio Lower Upper
62 100
98 10.2 8.4 12.6





#29

Cyclohexane

Concen: 4.253 ug/L

RT: 4.574 min Scan# 1099

Delta R.T. -0.000 min

Lab File: VV037580.D

Acq: 27 Sep 2024 03:41

Instrument :

MSVOA_V

ClientSampleId :

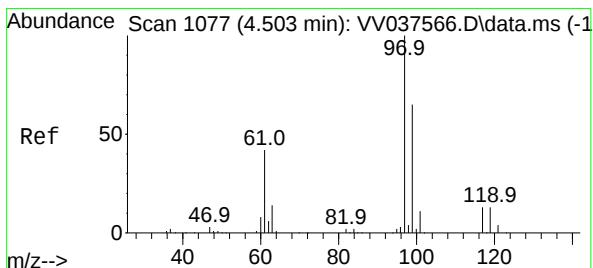
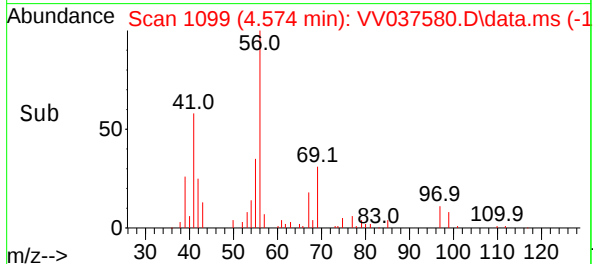
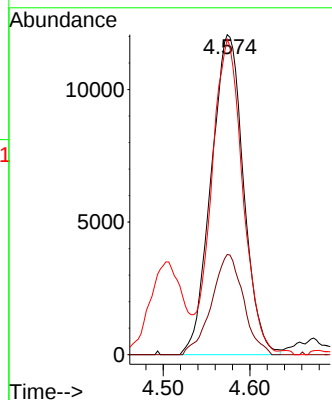
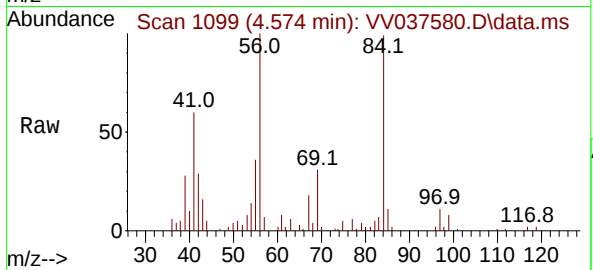
Tgt Ion: 56 Resp: 31336

Ion Ratio Lower Upper

56 100

69 30.8 24.7 37.1

84 91.6 73.4 110.0



#30

1,1,1-Trichloroethane

Concen: 65.596 ug/L

RT: 4.506 min Scan# 1078

Delta R.T. 0.003 min

Lab File: VV037580.D

Acq: 27 Sep 2024 03:41

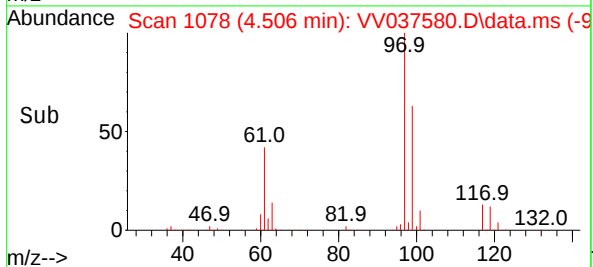
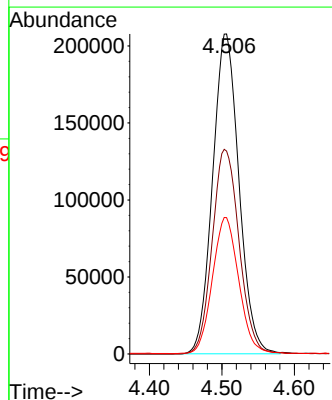
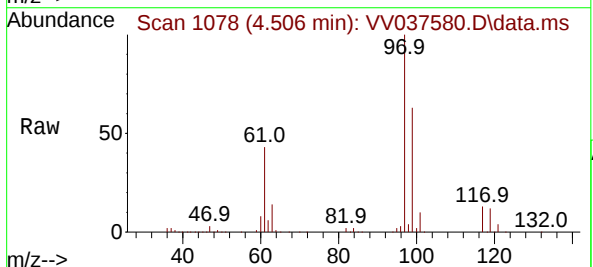
Tgt Ion: 97 Resp: 524281

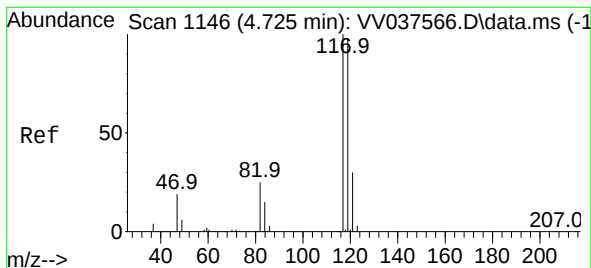
Ion Ratio Lower Upper

97 100

99 65.5 51.8 77.6

61 42.1 33.6 50.4





#31

Carbon tetrachloride

Concen: 9.866 ug/L

RT: 4.503 min Scan# 1146

Delta R.T. -0.222 min

Lab File: VV037580.D

Acq: 27 Sep 2024 03:41

Instrument :

MSVOA_V

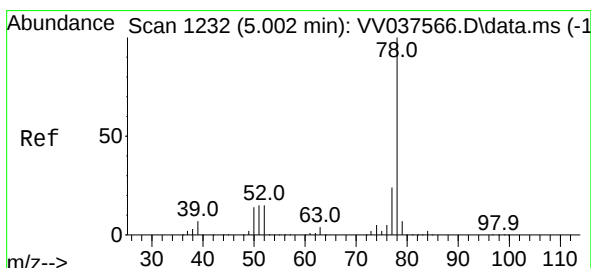
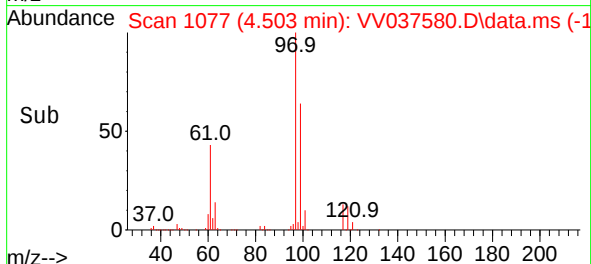
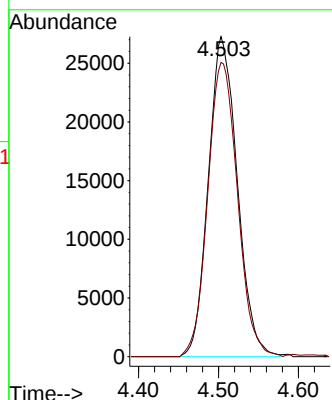
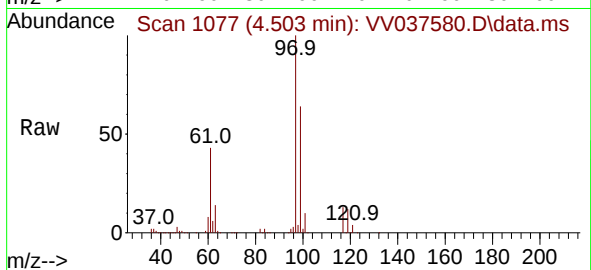
ClientSampleId :

Tgt Ion:117 Resp: 68561

Ion Ratio Lower Upper

117 100

119 94.4 76.9 115.3



#33

Benzene

Concen: 11.431 ug/L

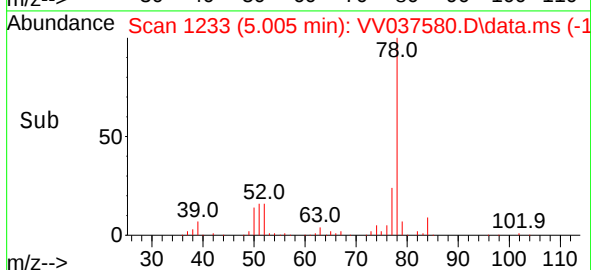
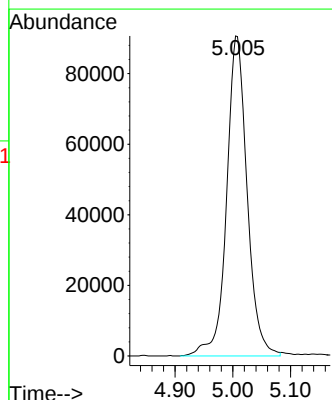
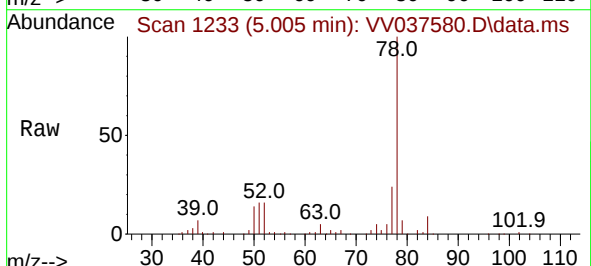
RT: 5.005 min Scan# 1233

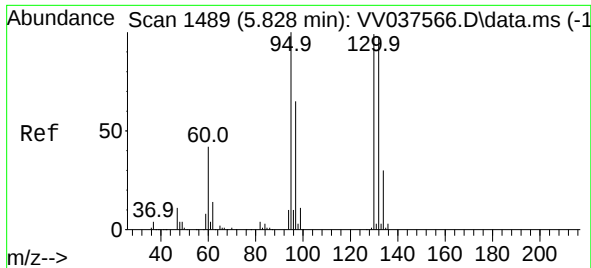
Delta R.T. 0.003 min

Lab File: VV037580.D

Acq: 27 Sep 2024 03:41

Tgt Ion: 78 Resp: 223721





#34

Trichloroethene

Concen: 2.493 ug/L

RT: 5.837 min Scan# 1489

Delta R.T. 0.010 min

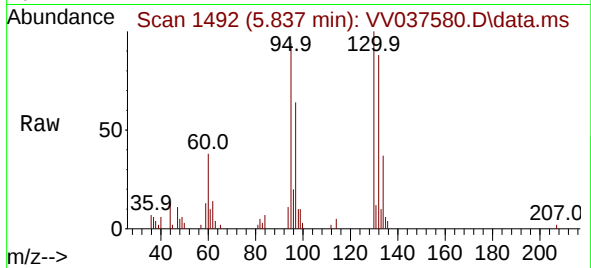
Lab File: VV037580.D

Acq: 27 Sep 2024 03:41

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion: 95 Resp: 12993

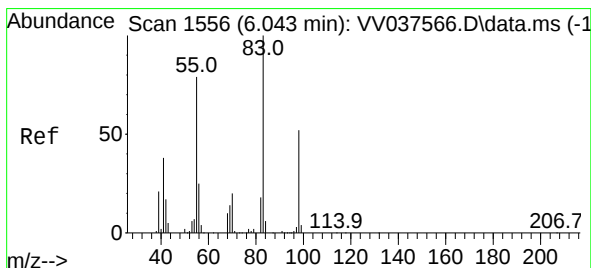
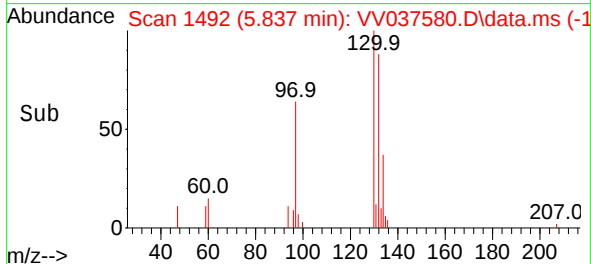
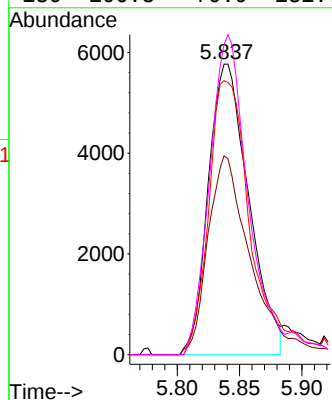
Ion Ratio Lower Upper

95 100

97 68.5 46.3 85.9

132 94.3 68.6 127.4

130 106.8 70.9 131.7



#35

Methylcyclohexane

Concen: 8.215 ug/L

RT: 6.043 min Scan# 1556

Delta R.T. -0.000 min

Lab File: VV037580.D

Acq: 27 Sep 2024 03:41

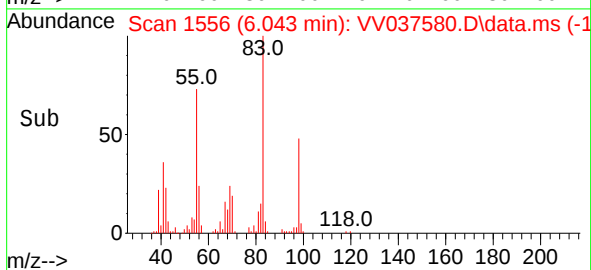
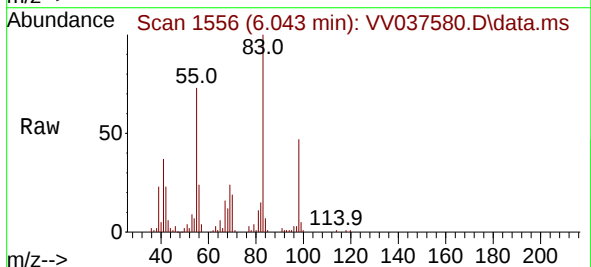
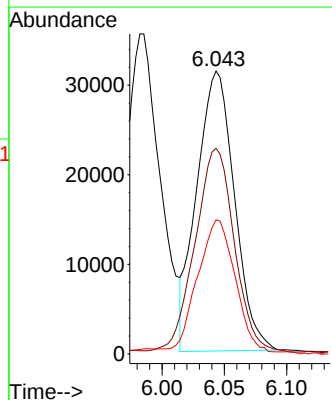
Tgt Ion: 83 Resp: 65871

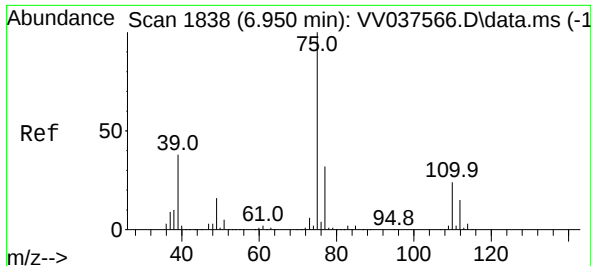
Ion Ratio Lower Upper

83 100

55 77.6 57.9 86.9

98 46.9 39.3 58.9

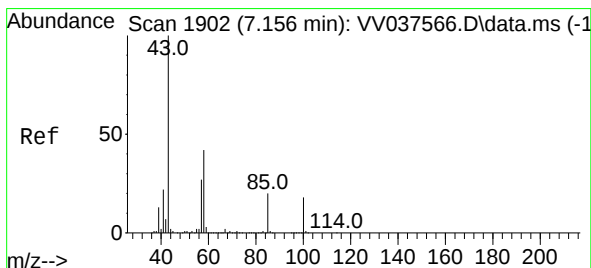
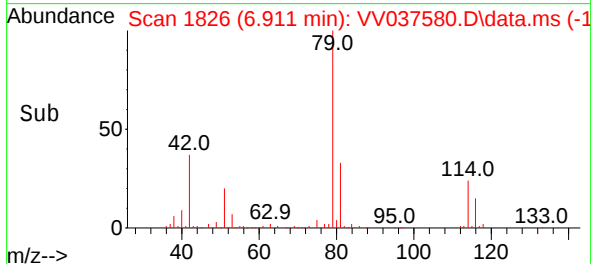
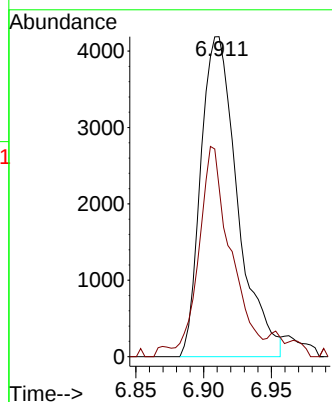
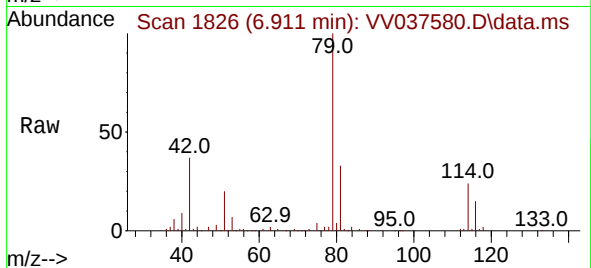




#39
cis-1,3-Dichloropropene
Concen: 0.979 ug/L
RT: 6.911 min Scan# 11
Delta R.T. -0.039 min
Lab File: VV037580.D
Acq: 27 Sep 2024 03:41

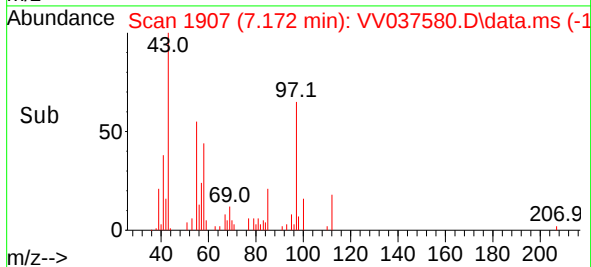
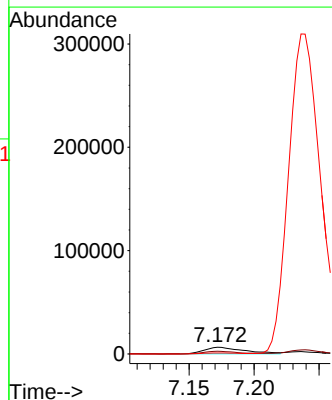
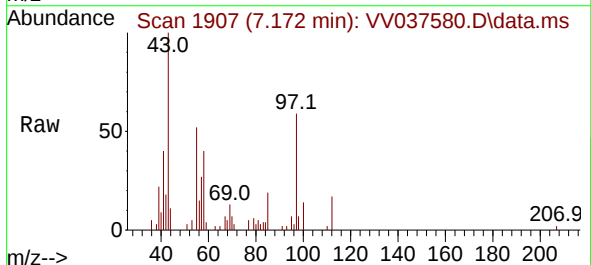
Instrument :
MSVOA_V
ClientSampleId :

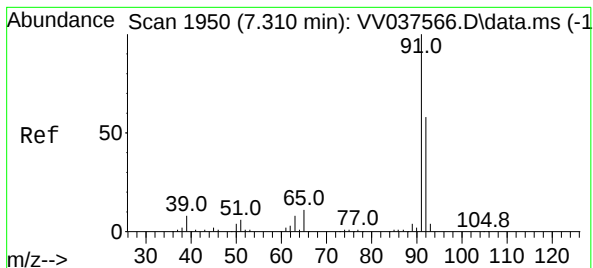
Tgt Ion: 75 Resp: 7900
Ion Ratio Lower Upper
75 100
77 53.0 21.8 40.4#



#40
4-Methyl-2-pentanone
Concen: 3.330 ug/L
RT: 7.172 min Scan# 1907
Delta R.T. 0.016 min
Lab File: VV037580.D
Acq: 27 Sep 2024 03:41

Tgt Ion: 43 Resp: 13703
Ion Ratio Lower Upper
43 100
58 37.5 33.0 49.4
100 14.5 13.7 20.5





#42

Toluene

Concen: 337.714 ug/L

RT: 7.307 min Scan# 1949

Delta R.T. -0.003 min

Lab File: VV037580.D

Acq: 27 Sep 2024 03:41

Instrument :

MSVOA_V

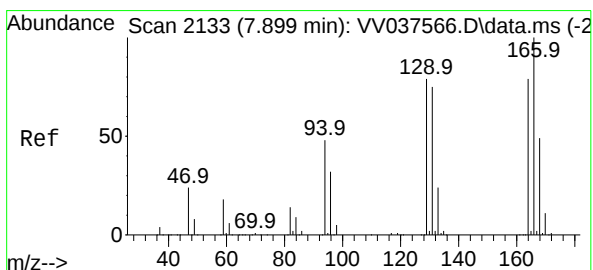
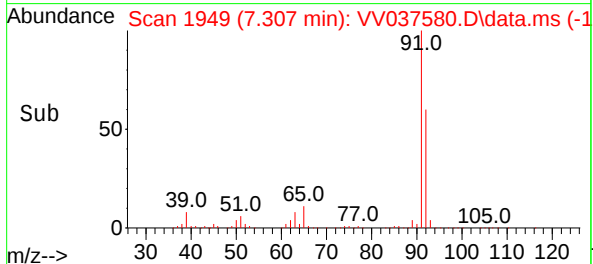
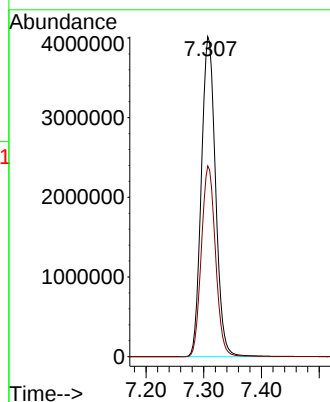
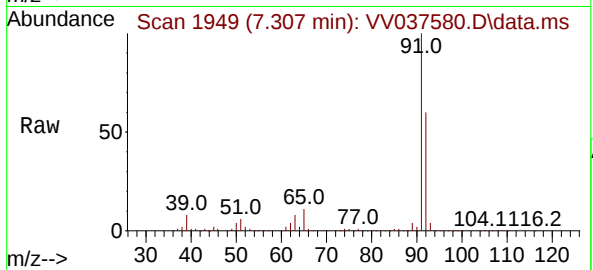
ClientSampleId :

Tgt Ion: 91 Resp: 6852085

Ion Ratio Lower Upper

91 100

92 59.6 41.1 76.3



#46

Tetrachloroethene

Concen: 2.736 ug/L

RT: 7.905 min Scan# 2135

Delta R.T. 0.006 min

Lab File: VV037580.D

Acq: 27 Sep 2024 03:41

Tgt Ion: 164 Resp: 10902

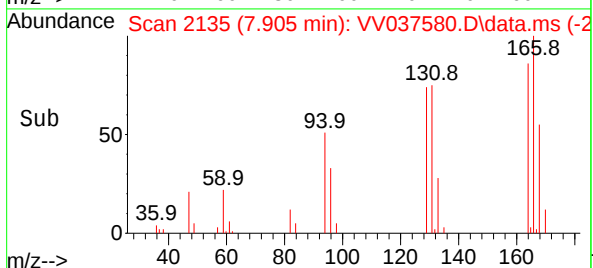
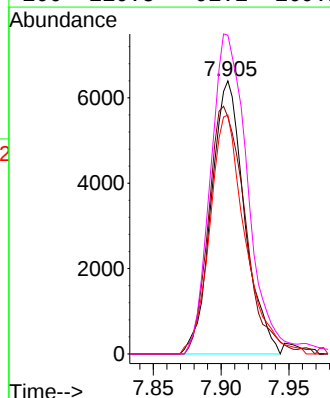
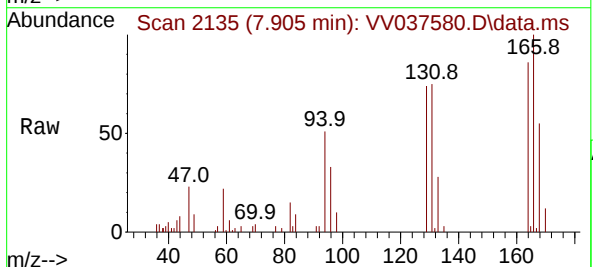
Ion Ratio Lower Upper

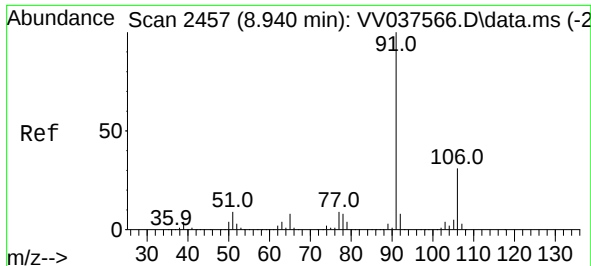
164 100

129 86.7 68.2 126.6

131 87.5 66.1 122.8

166 116.8 91.1 169.1

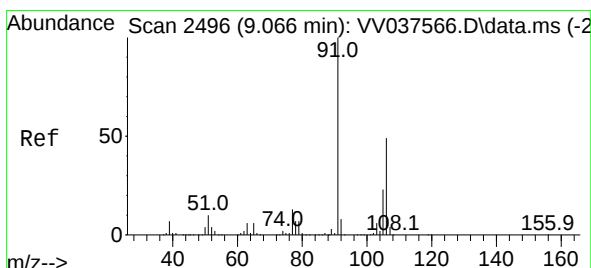
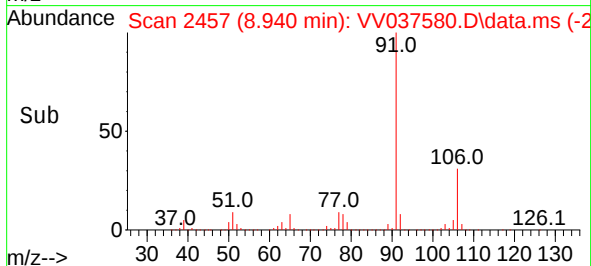
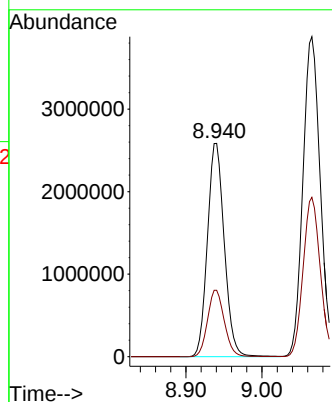
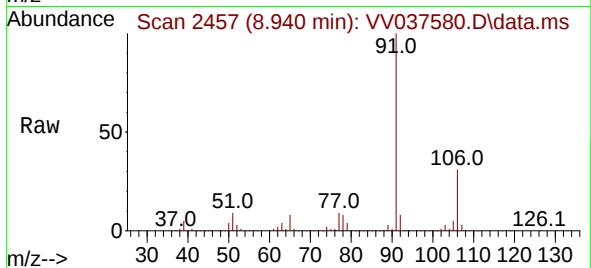




#52
Ethylbenzene
Concen: 173.867 ug/L
RT: 8.940 min Scan# 2457
Delta R.T. -0.000 min
Lab File: VV037580.D
Acq: 27 Sep 2024 03:41

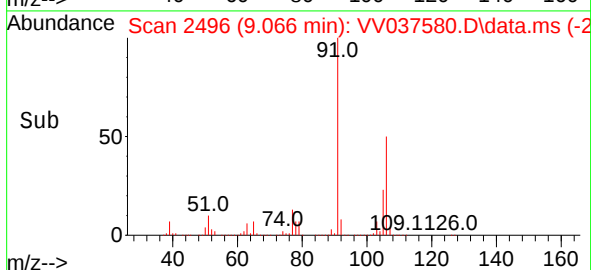
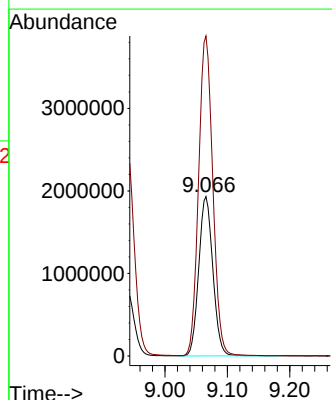
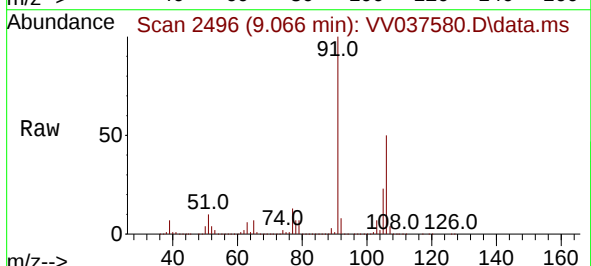
Instrument :
MSVOA_V
ClientSampleId :

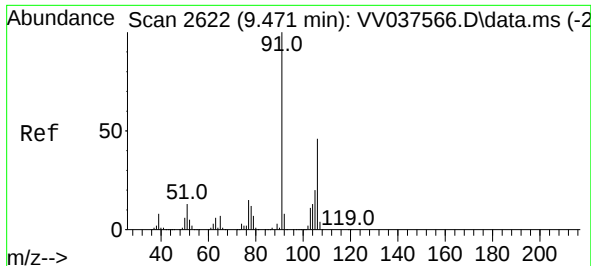
Tgt Ion: 91 Resp: 3970946
Ion Ratio Lower Upper
91 100
106 31.2 21.9 40.7



#53
m,p-Xylene
Concen: 357.048 ug/L
RT: 9.066 min Scan# 2496
Delta R.T. -0.000 min
Lab File: VV037580.D
Acq: 27 Sep 2024 03:41

Tgt Ion:106 Resp: 3034903
Ion Ratio Lower Upper
106 100
91 200.8 142.0 263.6





#54

o-Xylene

Concen: 379.667 ug/L

RT: 9.471 min Scan# 2622

Delta R.T. -0.000 min

Lab File: VV037580.D

Acq: 27 Sep 2024 03:41

Instrument :

MSVOA_V

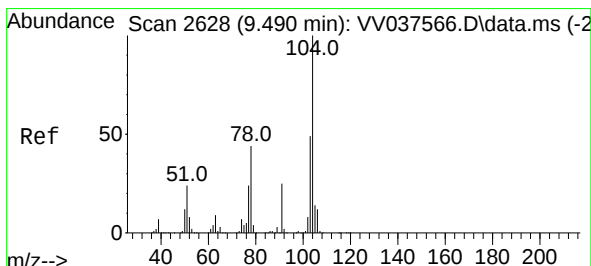
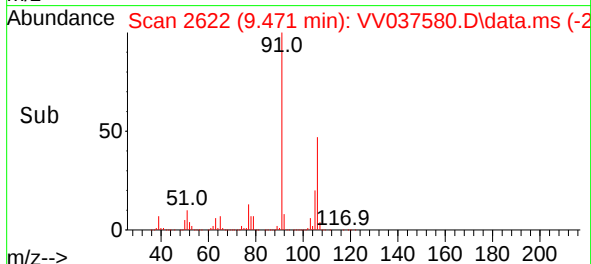
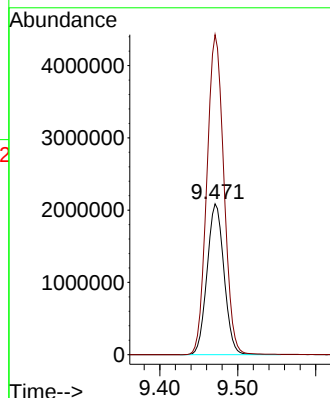
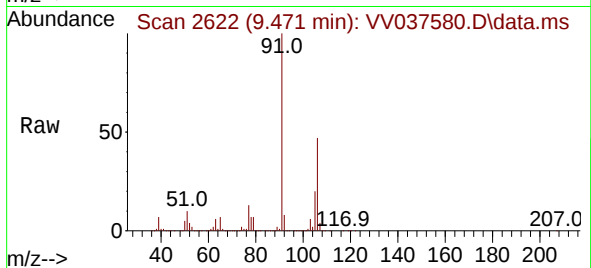
ClientSampleId :

Tgt Ion:106 Resp: 3150645

Ion Ratio Lower Upper

106 100

91 212.1 153.9 285.9



#55

Styrene

Concen: 10.790 ug/L

RT: 9.471 min Scan# 2622

Delta R.T. -0.019 min

Lab File: VV037580.D

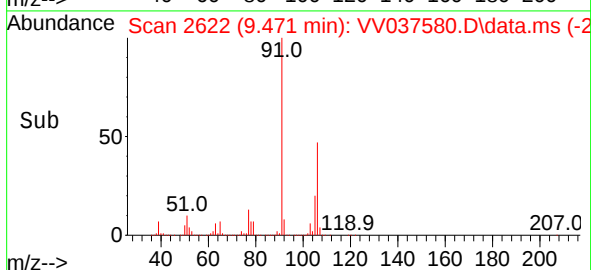
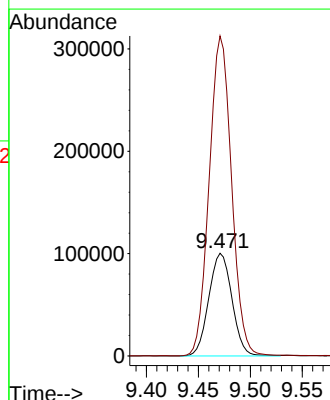
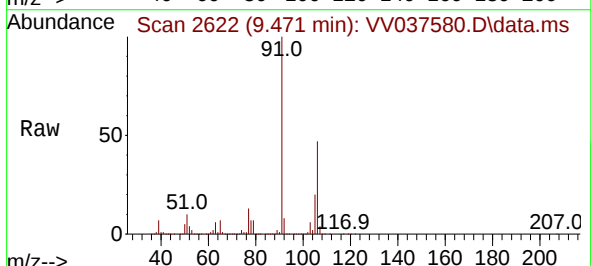
Acq: 27 Sep 2024 03:41

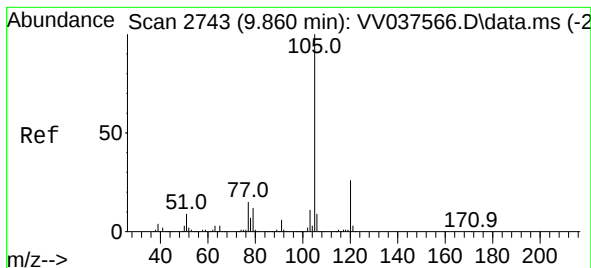
Tgt Ion:104 Resp: 155875

Ion Ratio Lower Upper

104 100

78 311.2 30.0 55.6#





#60

Isopropylbenzene

Concen: 24.989 ug/L

RT: 9.860 min Scan# 21

Delta R.T. -0.000 min

Lab File: VV037580.D

Acq: 27 Sep 2024 03:41

Instrument :

MSVOA_V

ClientSampleId :

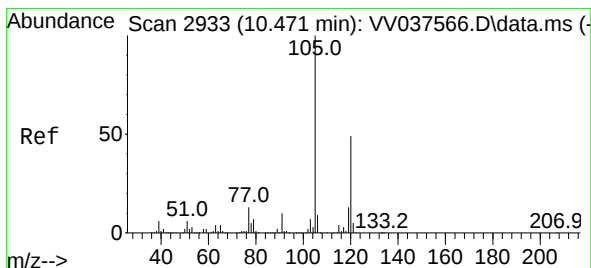
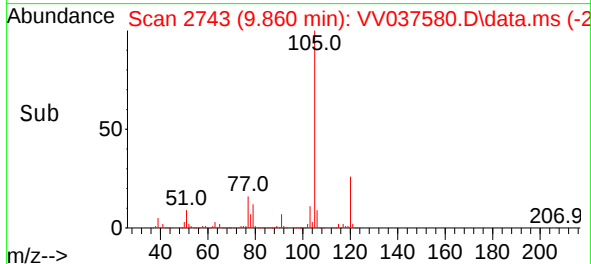
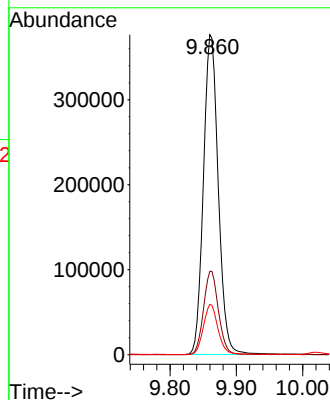
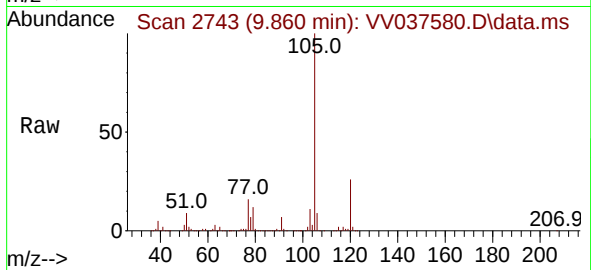
Tgt Ion:105 Resp: 585323

Ion Ratio Lower Upper

105 100

120 26.1 20.7 31.1

77 15.3 12.2 18.2



#62

1,3,5-Trimethylbenzene

Concen: 131.084 ug/L

RT: 10.468 min Scan# 2932

Delta R.T. -0.003 min

Lab File: VV037580.D

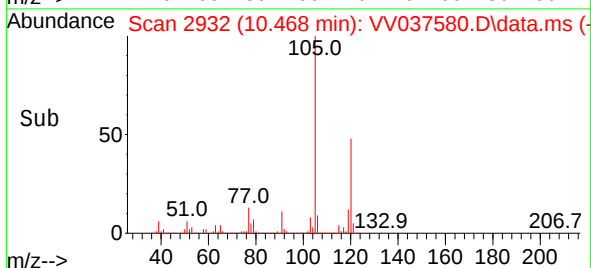
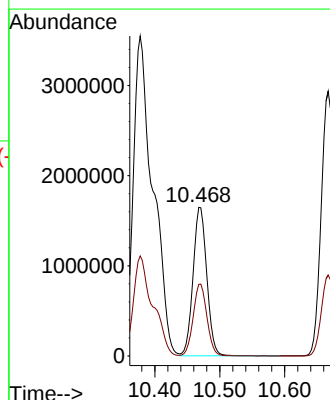
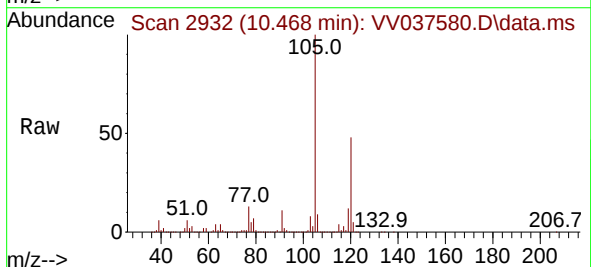
Acq: 27 Sep 2024 03:41

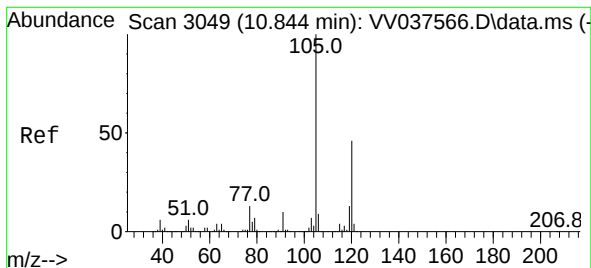
Tgt Ion:105 Resp: 2427451

Ion Ratio Lower Upper

105 100

120 48.4 39.3 58.9





#63

1,2,4-Trimethylbenzene

Concen: 760.336 ug/L

RT: 10.844 min Scan# 3049

Delta R.T. -0.000 min

Lab File: VV037580.D

Acq: 27 Sep 2024 03:41

Instrument :

MSVOA_V

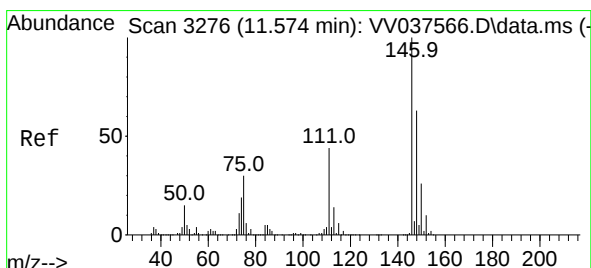
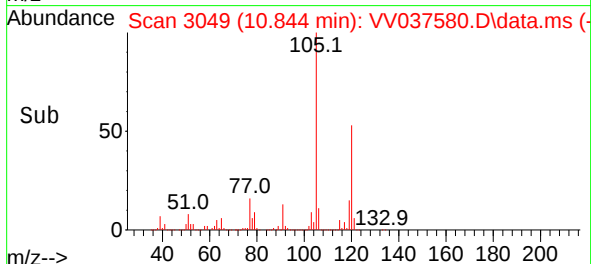
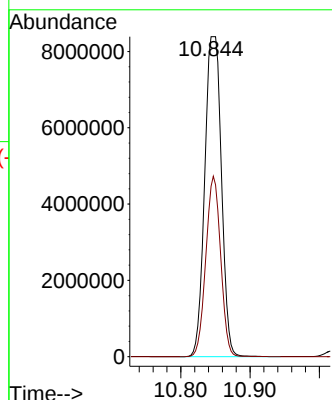
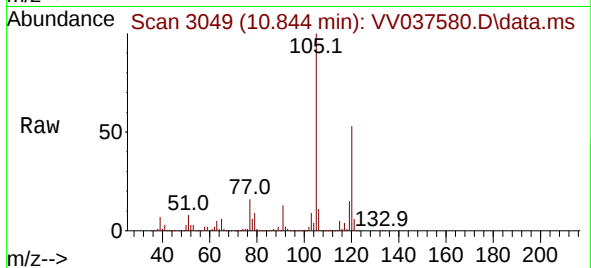
ClientSampleId :

Tgt Ion:105 Resp:14009328

Ion Ratio Lower Upper

105 100

120 50.0 36.2 54.2



#67

1,2-Dichlorobenzene

Concen: 3.933 ug/L

RT: 11.574 min Scan# 3276

Delta R.T. -0.000 min

Lab File: VV037580.D

Acq: 27 Sep 2024 03:41

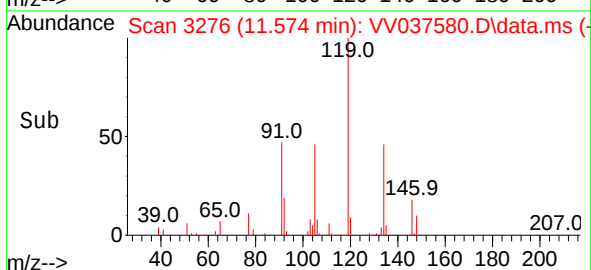
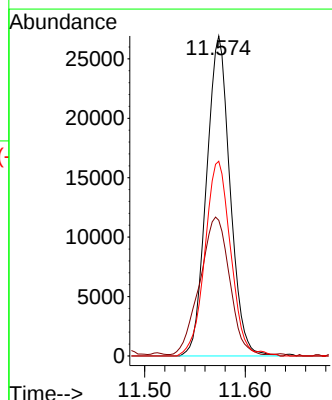
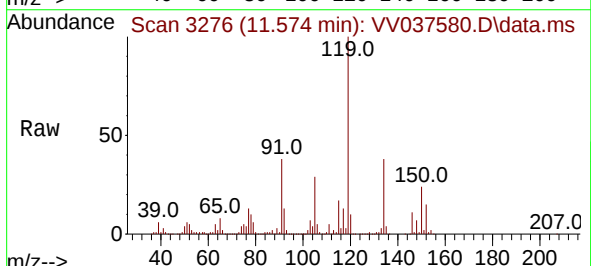
Tgt Ion:146 Resp: 43829

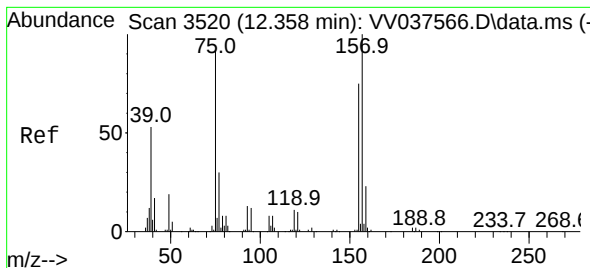
Ion Ratio Lower Upper

146 100

111 42.4 34.2 51.2

148 60.8 50.9 76.3

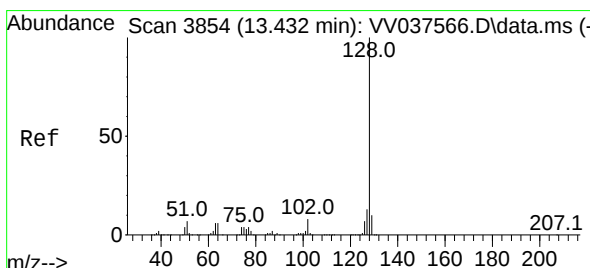
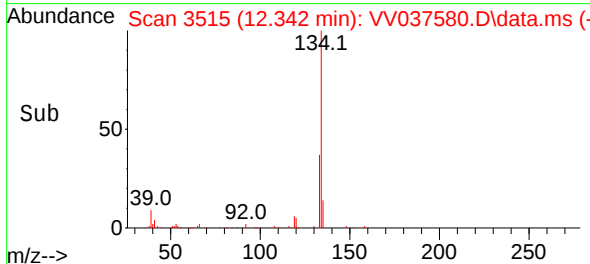
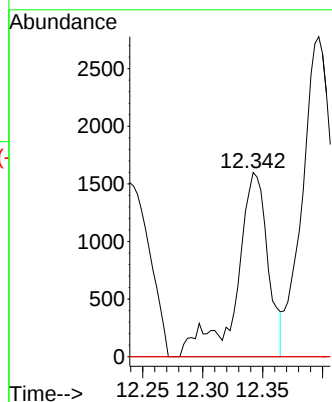
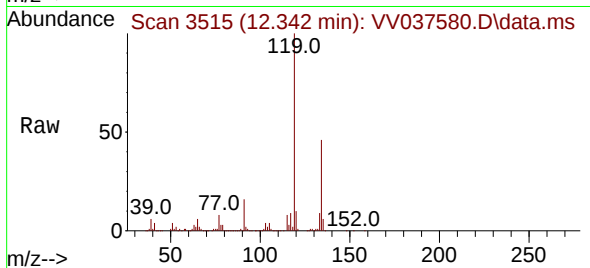




#68
1,2-Dibromo-3-chloropropane
Concen: 2.321 ug/L
RT: 12.342 min Scan# 3515
Delta R.T. -0.016 min
Lab File: VV037580.D
Acq: 27 Sep 2024 03:41

Instrument : MSVOA_V
ClientSampleId :

Tgt Ion: 75 Resp: 2888
Ion Ratio Lower Upper
75 100
155 0.0 66.2 99.4#
157 0.0 87.3 130.9#



#71
Naphthalene
Concen: 54.832 ug/L
RT: 13.429 min Scan# 3853
Delta R.T. -0.003 min
Lab File: VV037580.D
Acq: 27 Sep 2024 03:41

Tgt Ion: 128 Resp: 1030497
Ion Ratio Lower Upper
128 100
127 12.5 10.2 15.4
129 10.8 8.5 12.7

