

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV082224\
 Data File : VV037007.D
 Acq On : 22 Aug 2024 14:45
 Operator : SY/MD
 Sample : P3696-04
 Misc : 4.39g/10mL/MSVOA_V/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Aug 23 05:20:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM082224SMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Aug 23 05:07:38 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.590	114	234625	25.000	ug/L	0.06
28) Chlorobenzene-d5	8.799	117	133121	25.000	ug/L	0.02
58) 1,4-Dichlorobenzene-d4	11.188	152	47398	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.298	65	243	0.074	ug/L	0.02
Spiked Amount	25.000	Range	30 - 150	Recovery	=	0.280%#
7) Chloroethane-d5	1.603	69	71577	25.453	ug/L	0.07
Spiked Amount	25.000	Range	30 - 150	Recovery	=	101.800%
11) 1,1-Dichloroethene-d2	2.150	65	25525	16.117	ug/L	0.09
Spiked Amount	25.000	Range	45 - 110	Recovery	=	64.480%
21) 2-Butanone-d5	3.915	46	47544	77.981	ug/L	0.07
Spiked Amount	50.000	Range	20 - 135	Recovery	=	155.960%#
24) Chloroform-d	4.246	84	224	0.034	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	0.120%#
26) 1,2-Dichloroethane-d4	5.015	65	101211	33.277	ug/L	0.07
Spiked Amount	25.000	Range	70 - 130	Recovery	=	133.120%#
32) Benzene-d6	5.021	84	244205	30.613	ug/L	0.07
Spiked Amount	25.000	Range	20 - 135	Recovery	=	122.440%
36) 1,2-Dichloropropane-d6	5.998	67	188	0.078	ug/L	0.01
Spiked Amount	25.000	Range	70 - 120	Recovery	=	0.320%#
41) Toluene-d8	7.278	98	134463	18.493	ug/L	0.04
Spiked Amount	25.000	Range	30 - 130	Recovery	=	73.960%
43) trans-1,3-Dichloroprop...	7.584	79	33923	40.260	ug/L	0.03
Spiked Amount	25.000	Range	30 - 135	Recovery	=	161.040%#
47) 2-Hexanone-d5	8.060	63	53922	252.420	ug/L	0.03
Spiked Amount	50.000	Range	20 - 135	Recovery	=	504.840%#
56) 1,1,2,2-Tetrachloroeth...	10.156	84	58689	43.893	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	175.560%#
66) 1,2-Dichlorobenzene-d4	11.561	152	32139	18.943	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	75.760%
Target Compounds						
					Qvalue	
13) Acetone	2.208	43	28463	39.781	ug/L	76
15) Methyl Acetate	2.481	43	29293	25.121	ug/L #	89
22) 2-Butanone	4.092	43	44371	60.257	ug/L #	56
35) Methylcyclohexane	6.050	83	20738	5.475	ug/L #	20
39) cis-1,3-Dichloropropene	6.953	75	2290	0.748	ug/L #	66
42) Toluene	7.359	91	15613	1.717	ug/L	96
45) 1,1,2-Trichloroethane	7.735	97	733	0.533	ug/L #	41
46) Tetrachloroethene	7.931	164	1032	0.596	ug/L	84
48) 2-Hexanone	8.043	43	24532	36.997	ug/L #	37
52) Ethylbenzene	8.963	91	3913	0.382	ug/L	95
53) m,p-Xylene	9.088	106	5914	1.553	ug/L	89
54) o-Xylene	9.487	106	4005	1.101	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.178	83	8315	6.528	ug/L #	37
60) Isopropylbenzene	10.674	105	54449	7.286	ug/L	93
62) 1,3,5-Trimethylbenzene	10.477	105	55712	9.105	ug/L	100
63) 1,2,4-Trimethylbenzene	10.854	105	82783	13.881	ug/L	98
64) 1,3-Dichlorobenzene	11.127	146	1376	0.431	ug/L #	1
65) 1,4-Dichlorobenzene	11.214	146	2086	0.654	ug/L #	1
67) 1,2-Dichlorobenzene	11.580	146	1568	0.567	ug/L #	1

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Quant Title : VOC Analysis
QLast Update : Fri Aug 23 05:07:38 2024
Response via : Initial Calibration

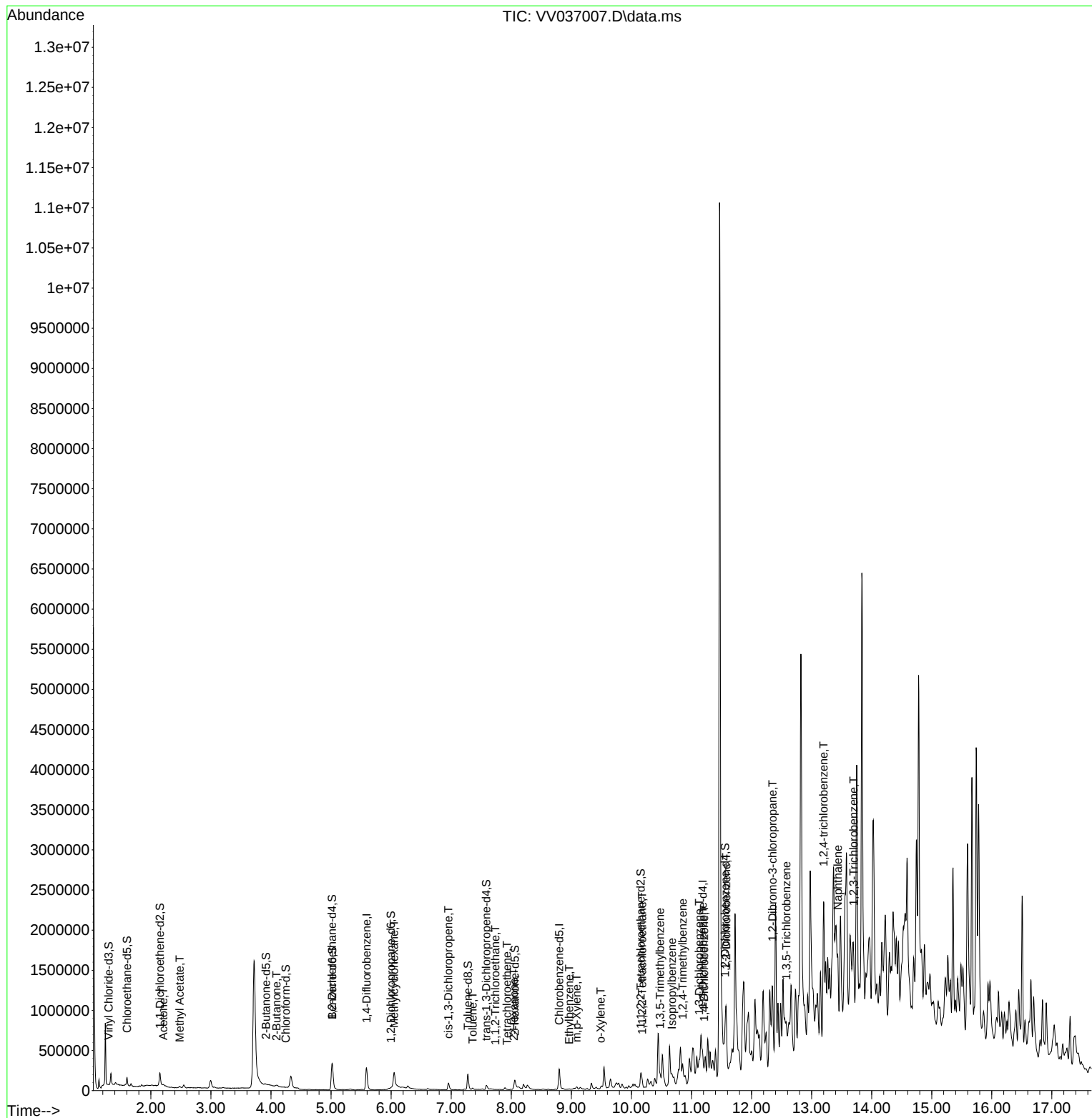
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1,2-Dibromo-3-chloropr...	12.349	75	1439	9.634	ug/L #	22
69) 1,3,5-Trichlorobenzene	12.580	180	1094	0.492	ug/L #	68
70) 1,2,4-trichlorobenzene	13.198	180	1792	1.006	ug/L #	1
71) Naphthalene	13.435	128	95709	35.669	ug/L #	1
72) 1,2,3-Trichlorobenzene	13.699	180	7212	4.890	ug/L #	1

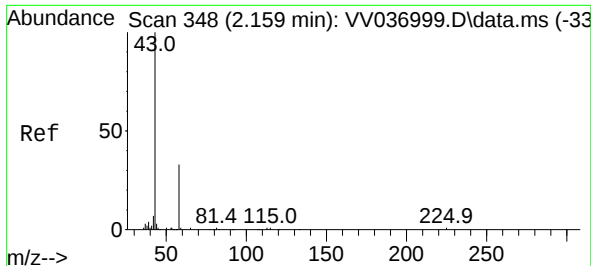
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Acetone

Concen: 39.781 ug/L

RT: 2.208 min Scan# 3

Delta R.T. 0.049 min

Lab File: VV037007.D

Acq: 22 Aug 2024 14:45

Instrument :

MSVOA_V

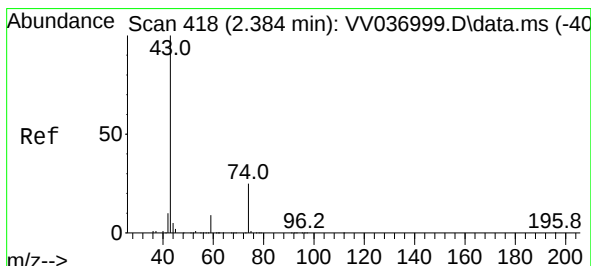
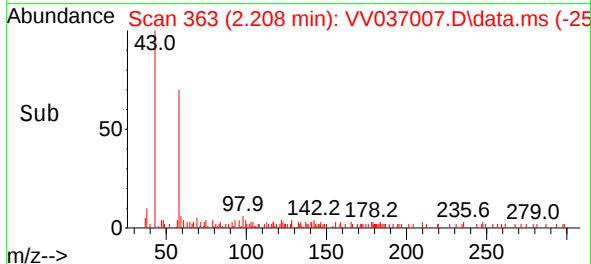
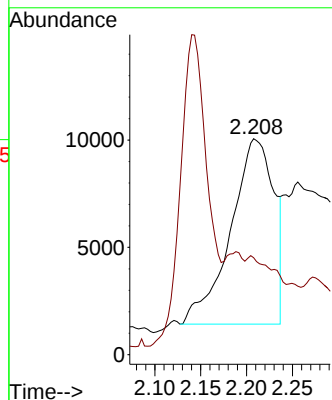
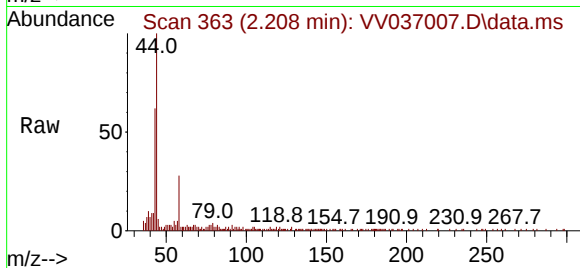
ClientSampleId :

Tgt Ion: 43 Resp: 28463

Ion Ratio Lower Upper

43 100

58 1.5 0.0 21.2



#15

Methyl Acetate

Concen: 25.121 ug/L

RT: 2.481 min Scan# 448

Delta R.T. 0.097 min

Lab File: VV037007.D

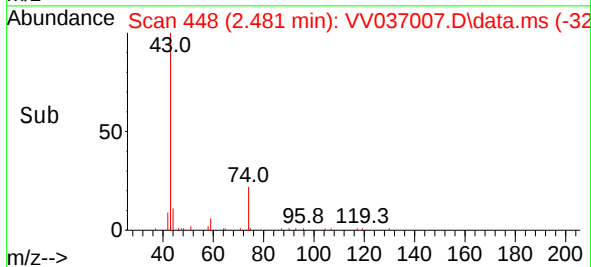
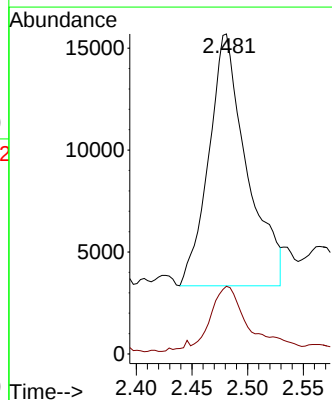
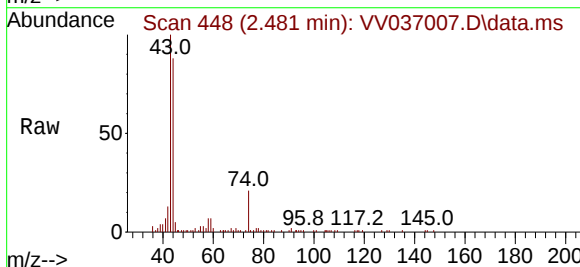
Acq: 22 Aug 2024 14:45

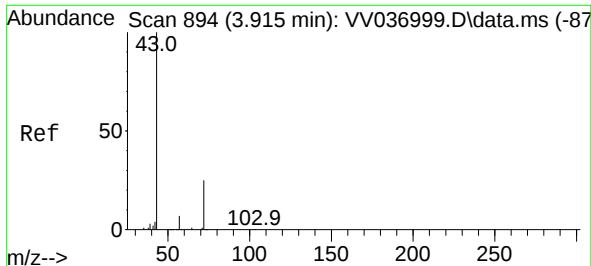
Tgt Ion: 43 Resp: 29293

Ion Ratio Lower Upper

43 100

74 19.2 19.6 29.4#





#22

2-Butanone

Concen: 60.257 ug/L

RT: 4.092 min Scan# 949

Delta R.T. 0.177 min

Lab File: VV037007.D

Acq: 22 Aug 2024 14:45

Instrument :

MSVOA_V

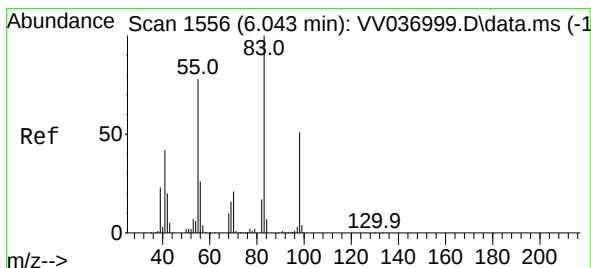
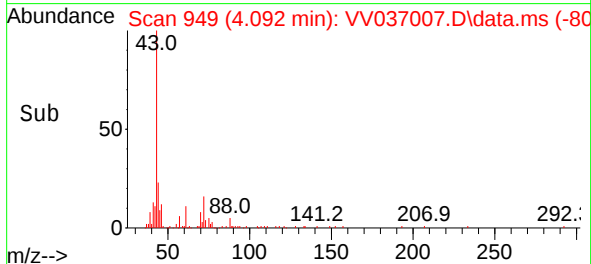
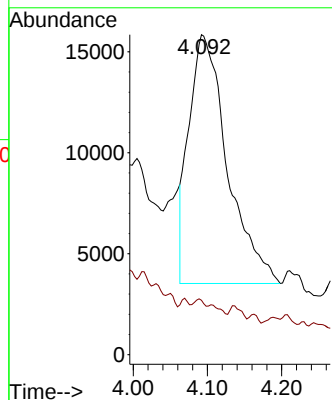
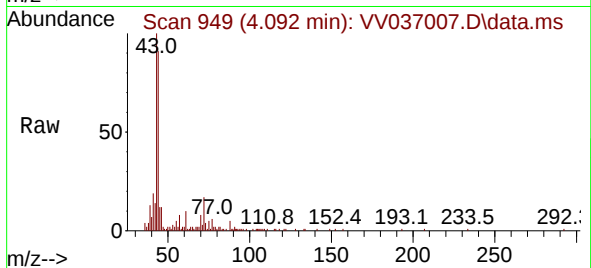
ClientSampleId :

Tgt Ion: 43 Resp: 44371

Ion Ratio Lower Upper

43 100

72 0.5 10.7 32.1#



#35

Methylcyclohexane

Concen: 5.475 ug/L

RT: 6.050 min Scan# 1558

Delta R.T. 0.007 min

Lab File: VV037007.D

Acq: 22 Aug 2024 14:45

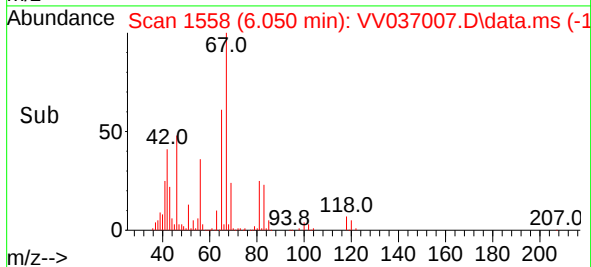
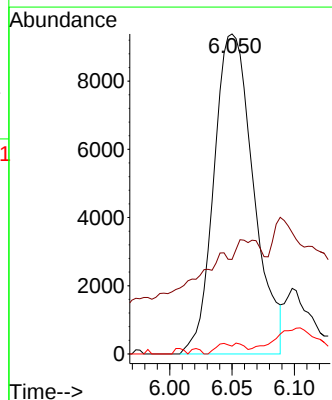
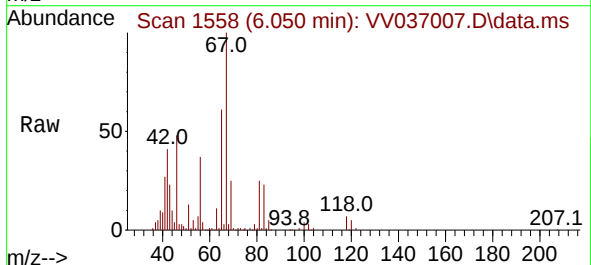
Tgt Ion: 83 Resp: 20738

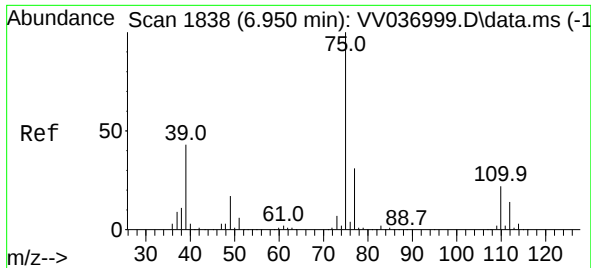
Ion Ratio Lower Upper

83 100

55 1.8 60.9 91.3#

98 0.5 39.0 58.6#





#39

cis-1,3-Dichloropropene

Concen: 0.748 ug/L

RT: 6.953 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV037007.D

Acq: 22 Aug 2024 14:45

Instrument :

MSVOA_V

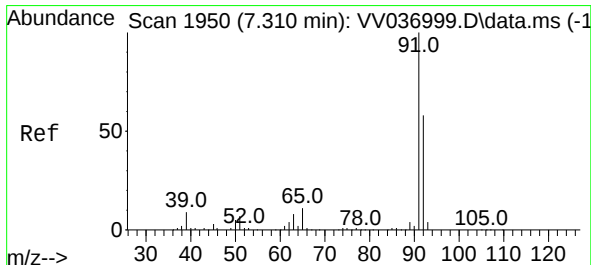
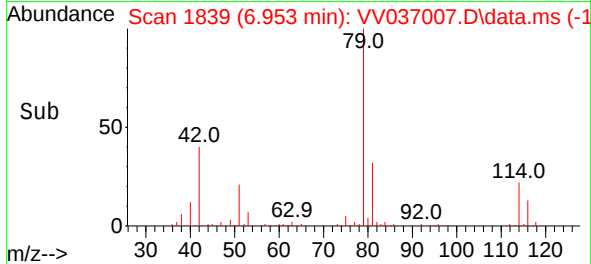
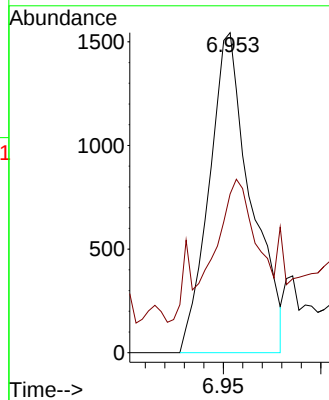
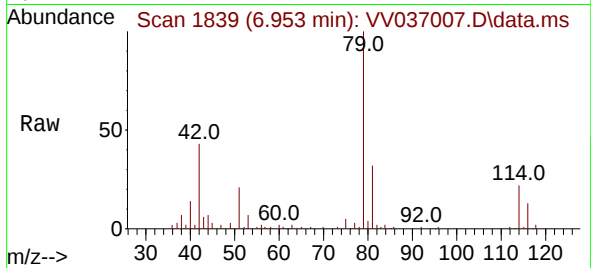
ClientSampleId :

Tgt Ion: 75 Resp: 2290

Ion Ratio Lower Upper

75 100

77 49.6 21.8 40.4#



#42

Toluene

Concen: 1.717 ug/L

RT: 7.359 min Scan# 1965

Delta R.T. 0.048 min

Lab File: VV037007.D

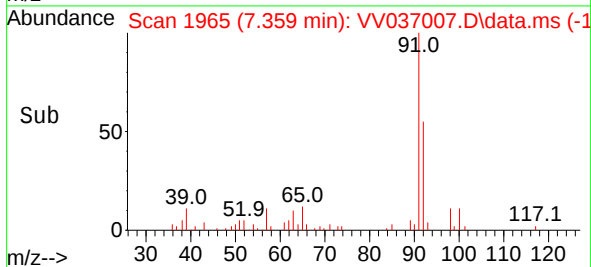
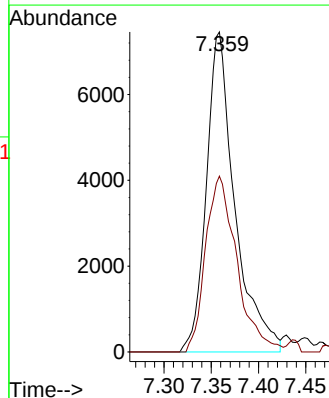
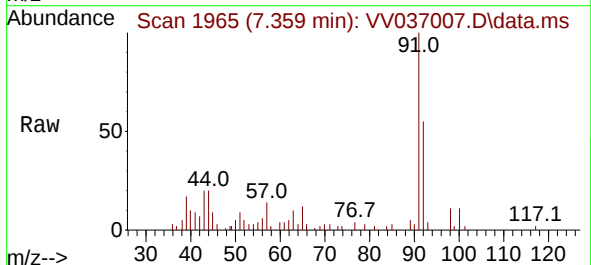
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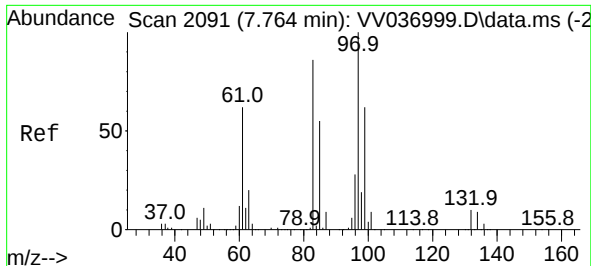
Tgt Ion: 91 Resp: 15613

Ion Ratio Lower Upper

91 100

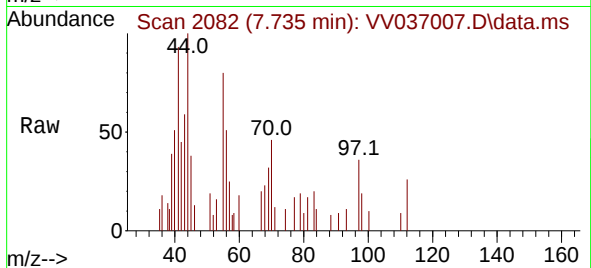
92 54.9 40.4 75.0





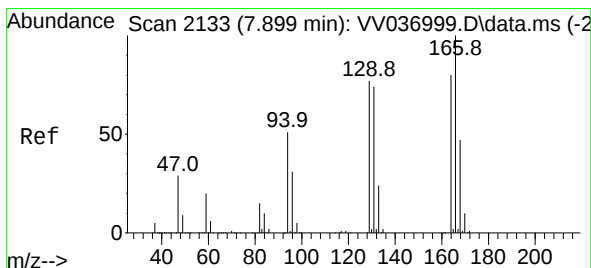
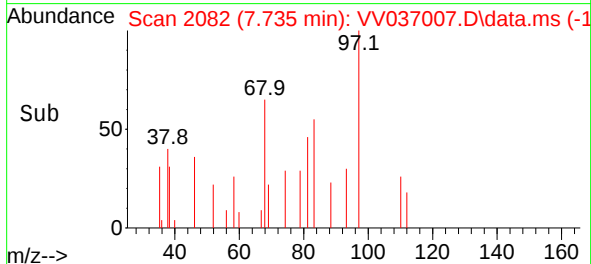
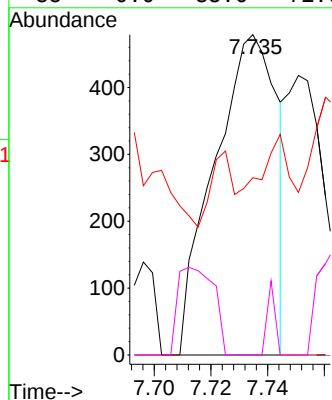
#45
1,1,2-Trichloroethane
Concen: 0.533 ug/L
RT: 7.735 min Scan# 2091
Delta R.T. -0.029 min
Lab File: VV037007.D
Acq: 22 Aug 2024 14:45

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion: 97 Resp: 733

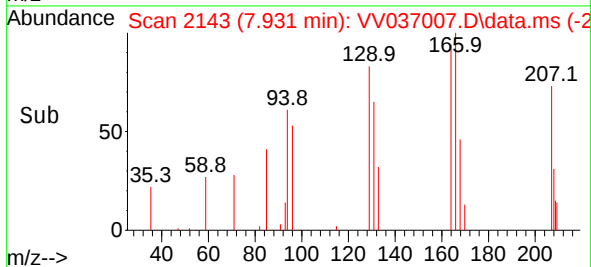
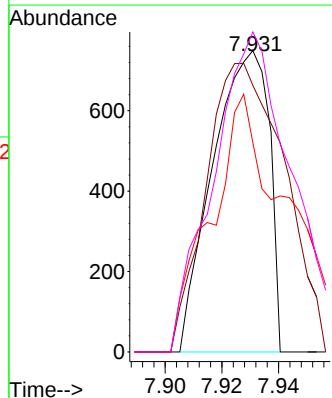
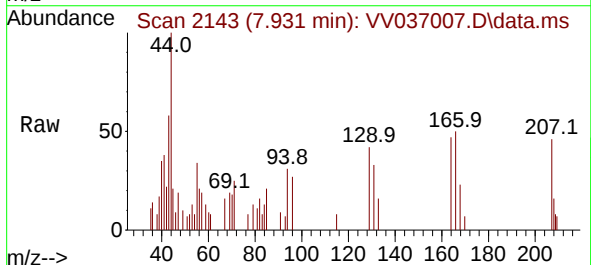
Ion	Ratio	Lower	Upper
97	100		
99	0.0	43.5	80.9#
83	55.3	60.3	111.9#
85	0.0	38.6	71.6#

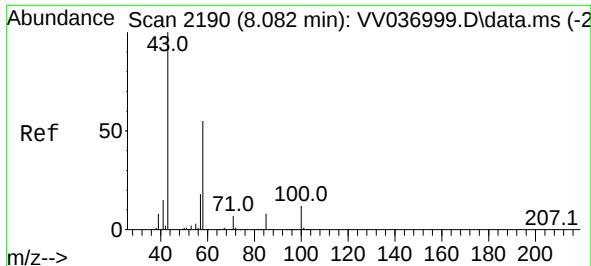


#46
Tetrachloroethene
Concen: 0.596 ug/L
RT: 7.931 min Scan# 2143
Delta R.T. 0.032 min
Lab File: VV037007.D
Acq: 22 Aug 2024 14:45

Tgt Ion: 164 Resp: 1032

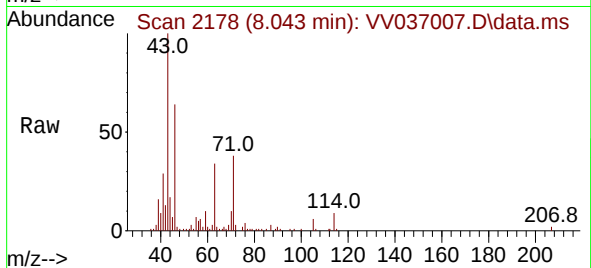
Ion	Ratio	Lower	Upper
164	100		
129	88.4	67.3	124.9
131	69.5	64.8	120.3
166	106.1	87.3	162.1



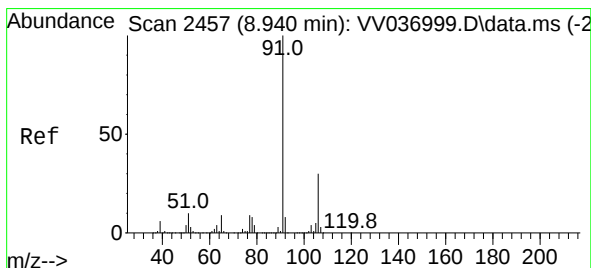
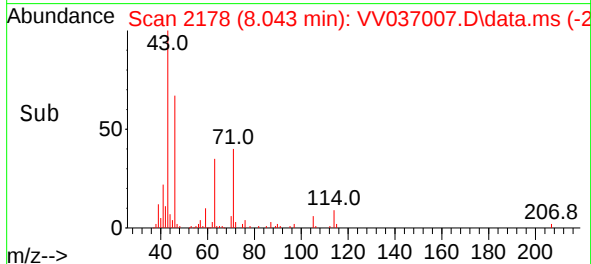
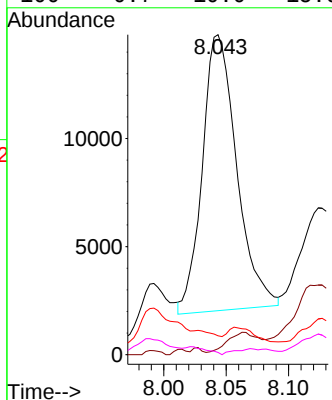


#48
2-Hexanone
Concen: 36.997 ug/L
RT: 8.043 min Scan# 2190
Delta R.T. -0.038 min
Lab File: VV037007.D
Acq: 22 Aug 2024 14:45

Instrument :
MSVOA_V
ClientSampleId :

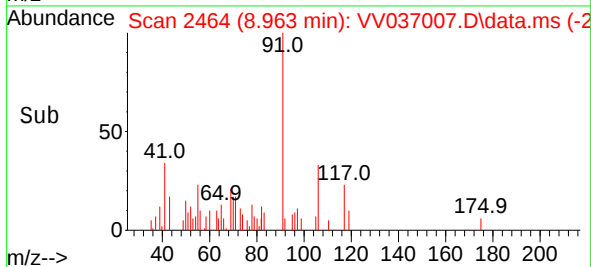
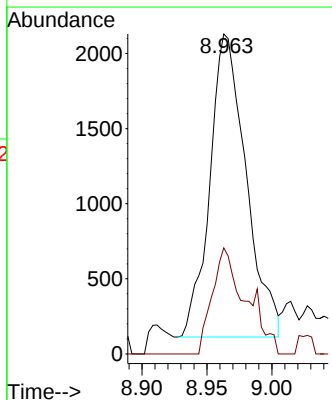
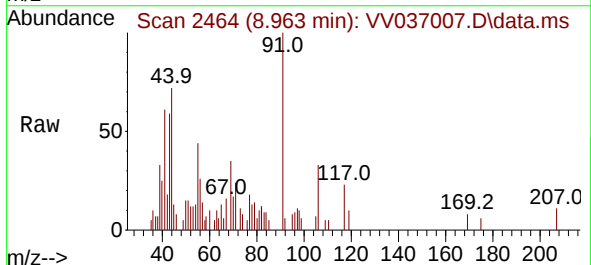


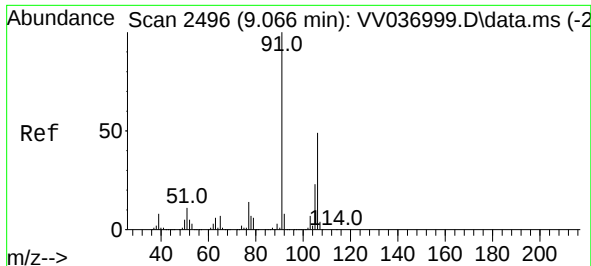
Tgt Ion:	43	Resp:	24532
Ion Ratio	Lower	Upper	
43	100		
58	0.0	47.9	71.9#
57	3.8	15.1	22.7#
100	0.7	10.0	15.0#



#52
Ethylbenzene
Concen: 0.382 ug/L
RT: 8.963 min Scan# 2464
Delta R.T. 0.023 min
Lab File: VV037007.D
Acq: 22 Aug 2024 14:45

Tgt Ion:	91	Resp:	3913
Ion Ratio	Lower	Upper	
91	100		
106	33.1	21.3	39.5





#53

m,p-Xylene

Concen: 1.553 ug/L

RT: 9.088 min Scan# 2496

Delta R.T. 0.023 min

Lab File: VV037007.D

Acq: 22 Aug 2024 14:45

Instrument :

MSVOA_V

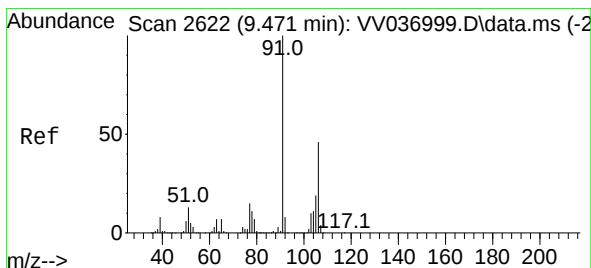
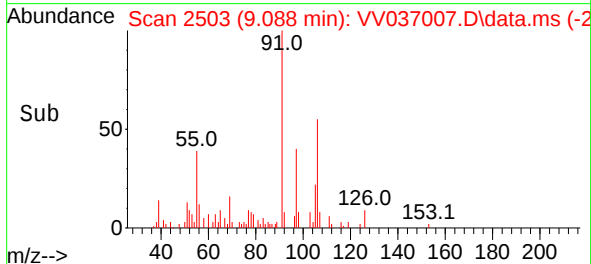
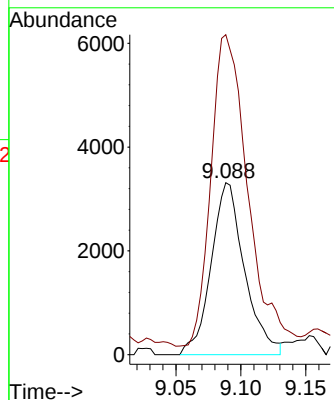
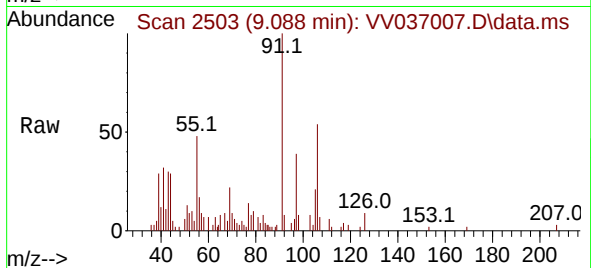
ClientSampleId :

Tgt Ion:106 Resp: 5914

Ion Ratio Lower Upper

106 100

91 186.1 142.4 264.4



#54

o-Xylene

Concen: 1.101 ug/L

RT: 9.487 min Scan# 2627

Delta R.T. 0.016 min

Lab File: VV037007.D

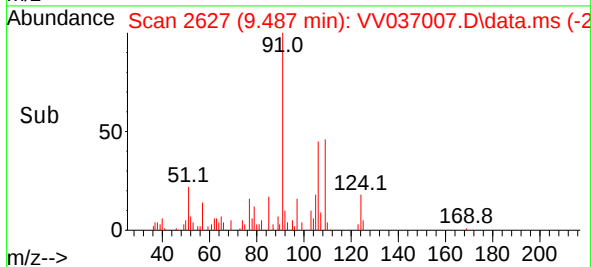
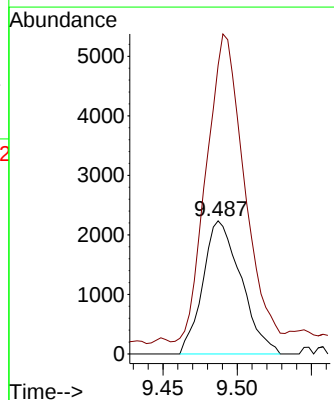
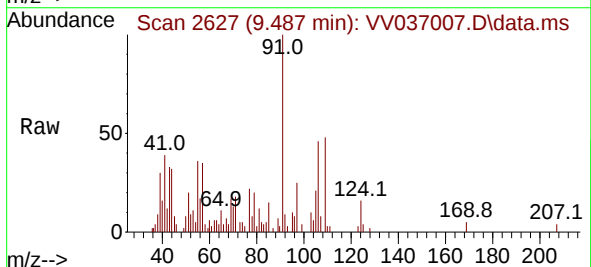
Acq: 22 Aug 2024 14:45

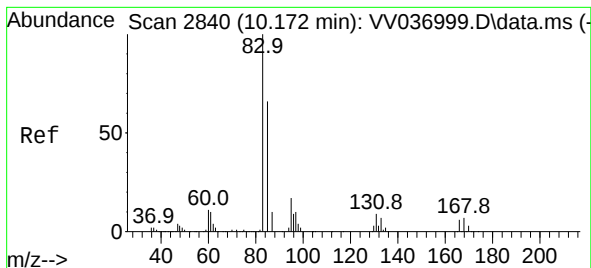
Tgt Ion:106 Resp: 4005

Ion Ratio Lower Upper

106 100

91 216.7 152.8 283.8





#57

1,1,2,2-Tetrachloroethane

Concen: 6.528 ug/L

RT: 10.178 min Scan# 21

Delta R.T. 0.007 min

Lab File: VV037007.D

Acq: 22 Aug 2024 14:45

Instrument :

MSVOA_V

ClientSampleId :

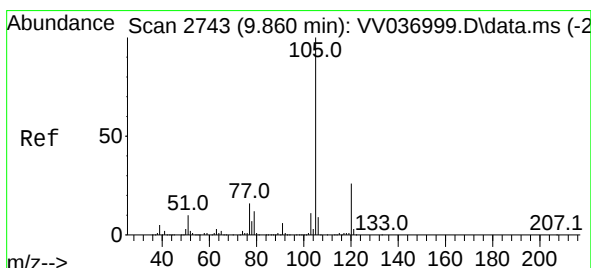
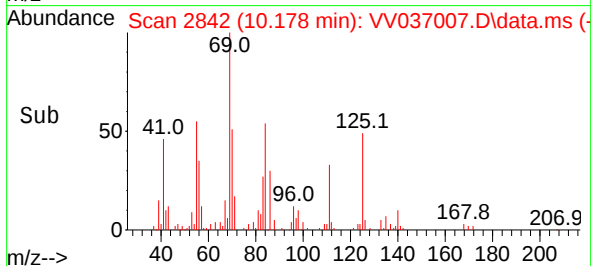
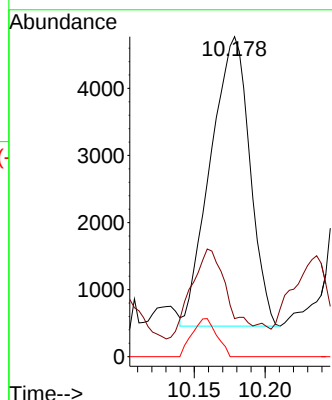
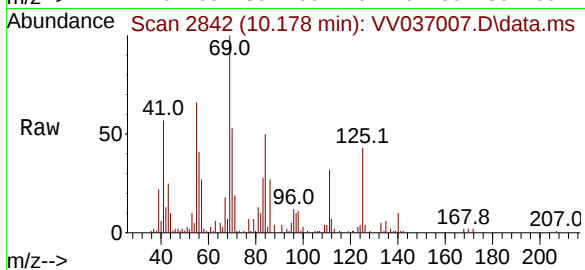
Tgt Ion: 83 Resp: 8315

Ion Ratio Lower Upper

83 100

85 11.9 46.4 86.2#

131 0.0 7.6 11.4#



#60

Isopropylbenzene

Concen: 7.286 ug/L

RT: 10.674 min Scan# 2996

Delta R.T. 0.814 min

Lab File: VV037007.D

Acq: 22 Aug 2024 14:45

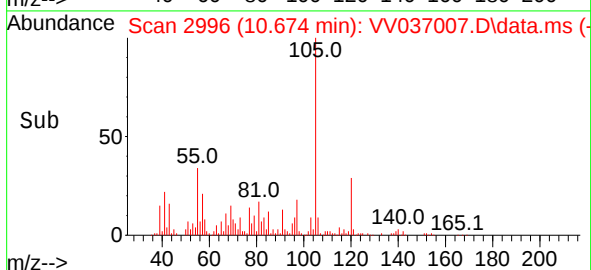
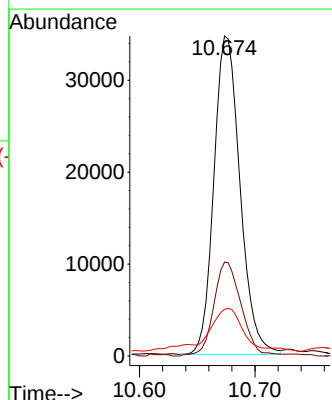
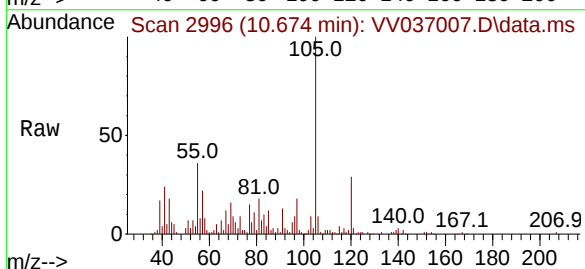
Tgt Ion: 105 Resp: 54449

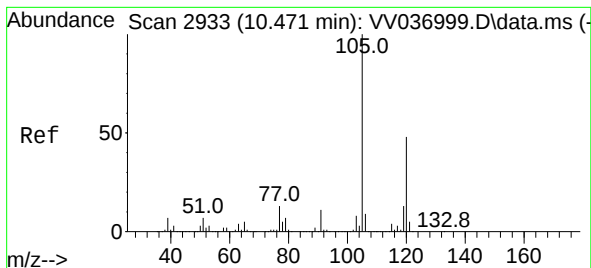
Ion Ratio Lower Upper

105 100

120 30.5 20.8 31.2

77 14.1 12.6 19.0

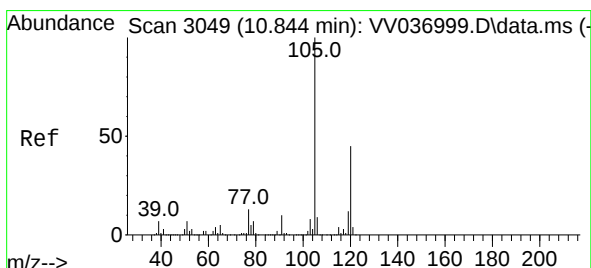
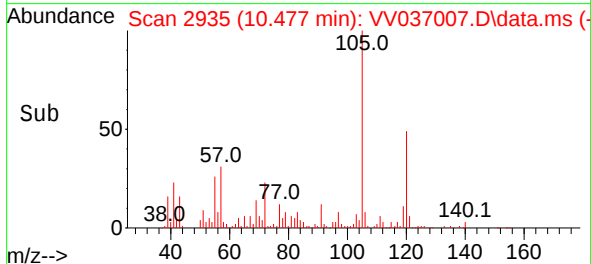
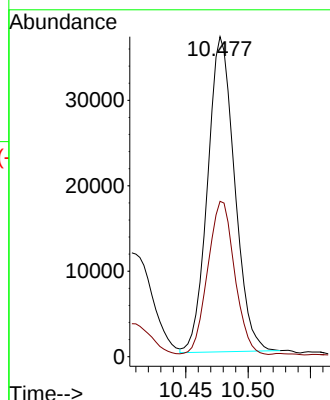
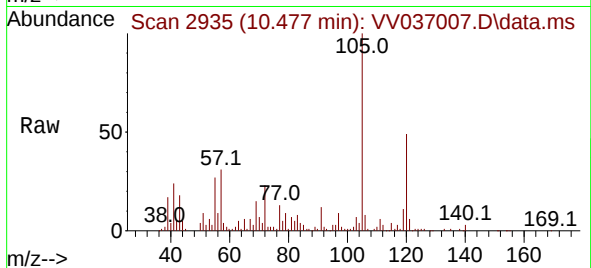




#62
1,3,5-Trimethylbenzene
Concen: 9.105 ug/L
RT: 10.477 min Scan# 2933
Delta R.T. 0.007 min
Lab File: VV037007.D
Acq: 22 Aug 2024 14:45

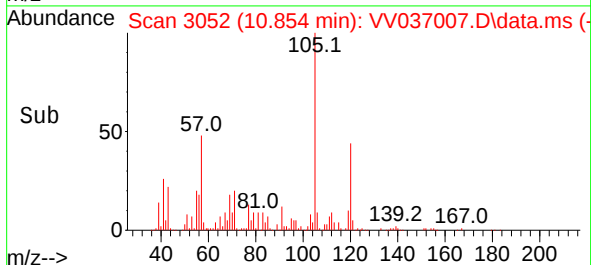
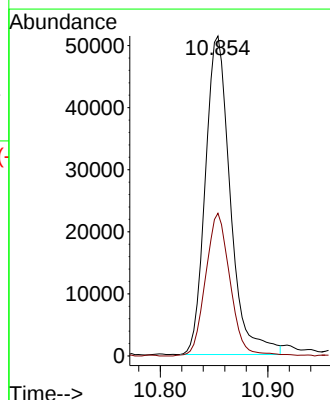
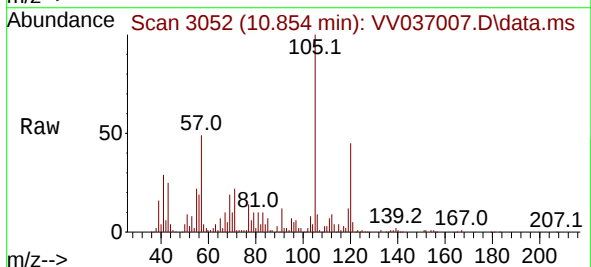
Instrument :
MSVOA_V
ClientSampleId :

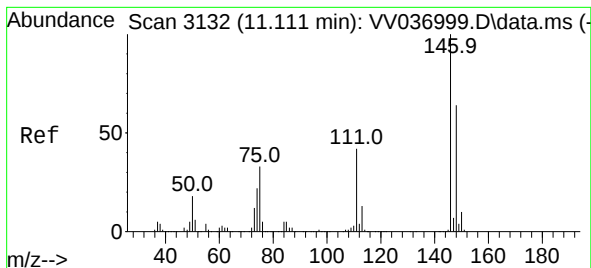
Tgt Ion:105 Resp: 55712
Ion Ratio Lower Upper
105 100
120 48.2 38.4 57.6



#63
1,2,4-Trimethylbenzene
Concen: 13.881 ug/L
RT: 10.854 min Scan# 3052
Delta R.T. 0.010 min
Lab File: VV037007.D
Acq: 22 Aug 2024 14:45

Tgt Ion:105 Resp: 82783
Ion Ratio Lower Upper
105 100
120 43.9 36.2 54.2





#64

1,3-Dichlorobenzene

Concen: 0.431 ug/L

RT: 11.127 min Scan# 3132

Delta R.T. 0.016 min

Lab File: VV037007.D

Acq: 22 Aug 2024 14:45

Instrument :

MSVOA_V

ClientSampleId :

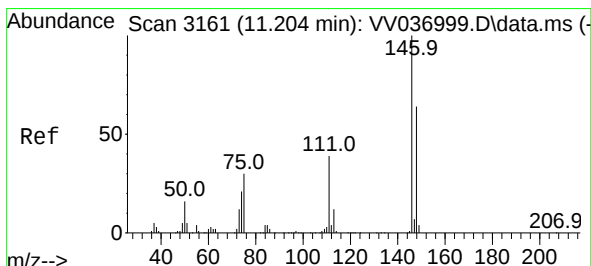
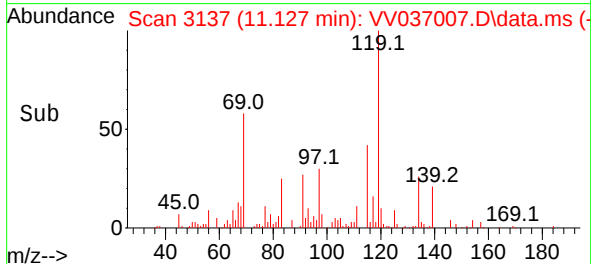
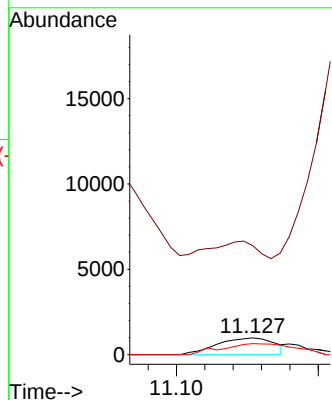
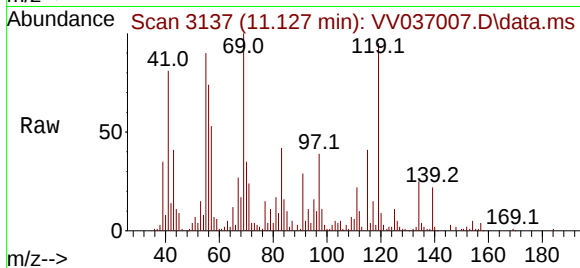
Tgt Ion:146 Resp: 1376

Ion Ratio Lower Upper

146 100

111 650.0 29.5 54.9#

148 65.8 44.7 83.1



#65

1,4-Dichlorobenzene

Concen: 0.654 ug/L

RT: 11.214 min Scan# 3164

Delta R.T. 0.010 min

Lab File: VV037007.D

Acq: 22 Aug 2024 14:45

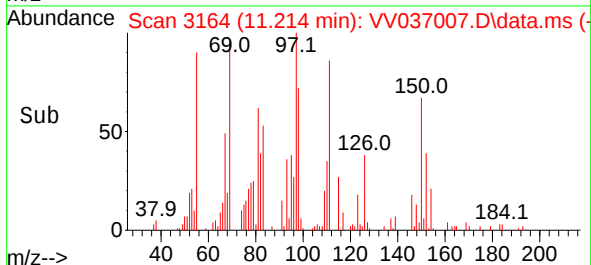
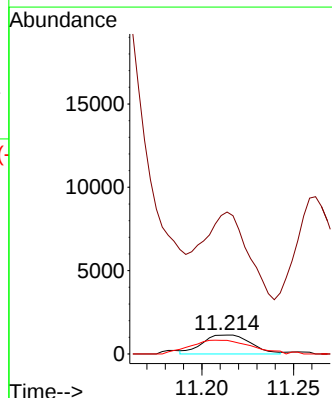
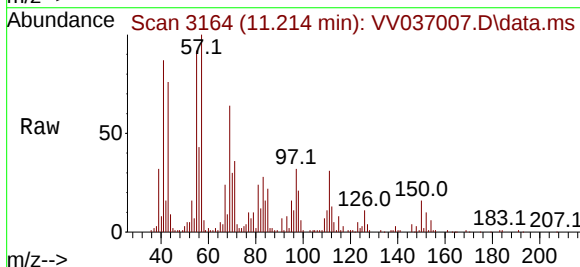
Tgt Ion:146 Resp: 2086

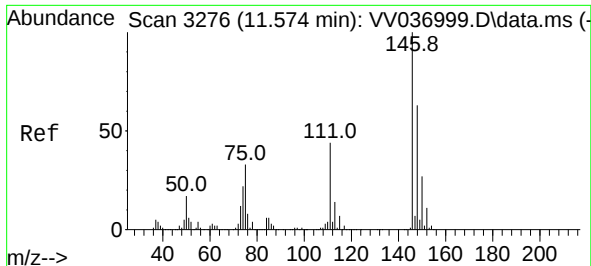
Ion Ratio Lower Upper

146 100

111 750.8 27.6 51.4#

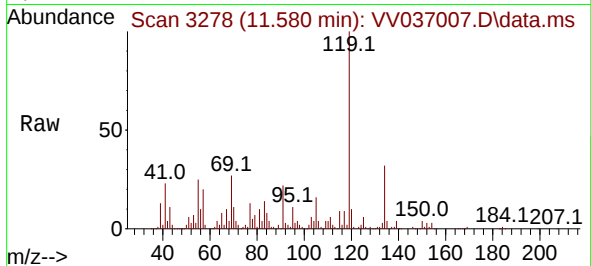
148 71.8 44.9 83.3



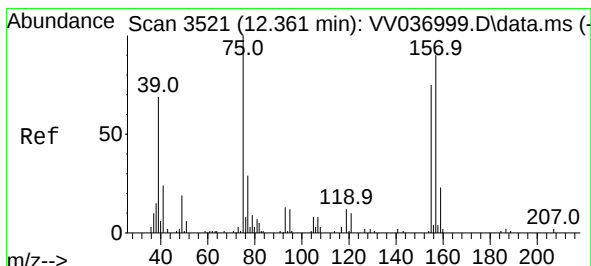
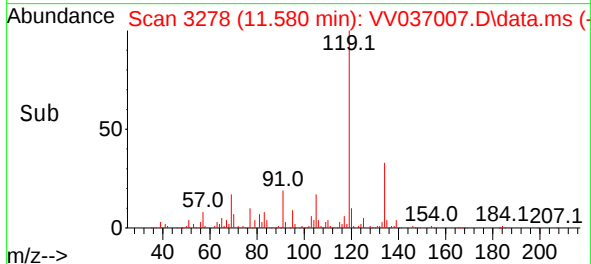
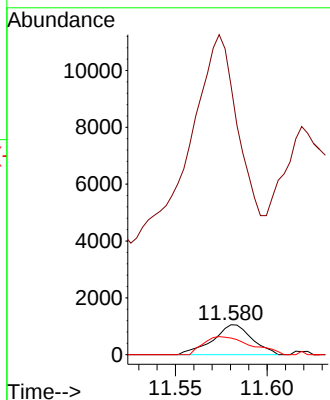


#67
1,2-Dichlorobenzene
Concen: 0.567 ug/L
RT: 11.580 min Scan# 31
Delta R.T. 0.007 min
Lab File: VV037007.D
Acq: 22 Aug 2024 14:45

Instrument :
MSVOA_V
ClientSampleId :

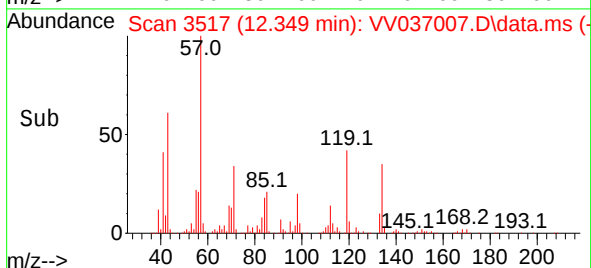
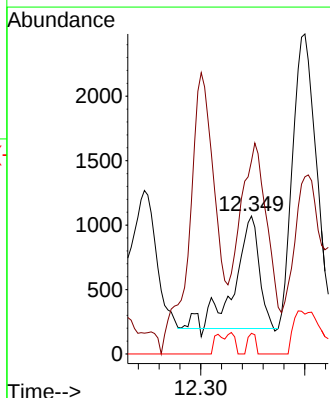
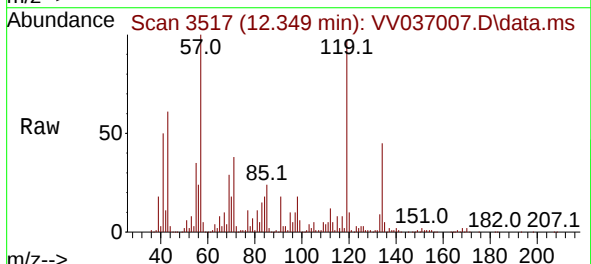


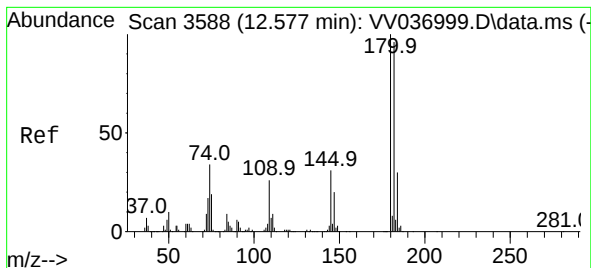
Tgt Ion:146 Resp: 1568
Ion Ratio Lower Upper
146 100
111 899.9 35.4 53.0#
148 55.5 50.8 76.2



#68
1,2-Dibromo-3-chloropropane
Concen: 9.634 ug/L
RT: 12.349 min Scan# 3517
Delta R.T. -0.013 min
Lab File: VV037007.D
Acq: 22 Aug 2024 14:45

Tgt Ion: 75 Resp: 1439
Ion Ratio Lower Upper
75 100
155 140.0 59.9 89.9#
157 15.0 72.2 108.2#





#69

1,3,5-Trichlorobenzene

Concen: 0.492 ug/L

RT: 12.580 min Scan# 3589

Delta R.T. 0.003 min

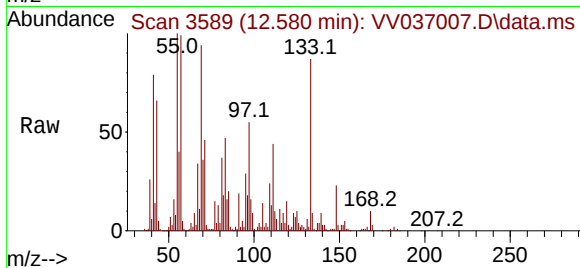
Lab File: VV037007.D

Acq: 22 Aug 2024 14:45

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:180 Resp: 1094

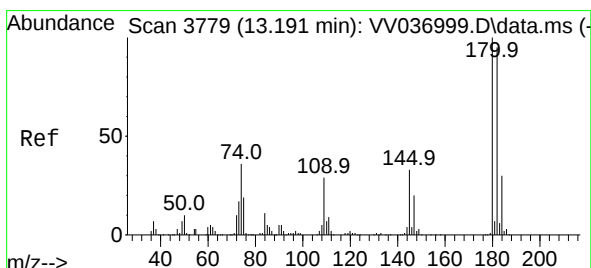
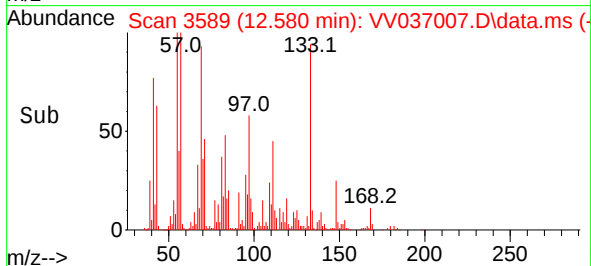
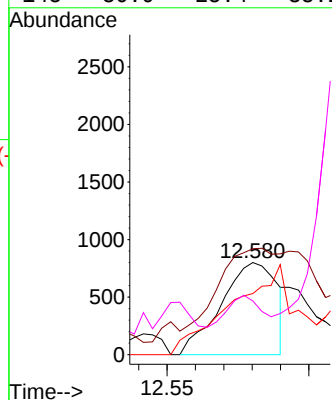
Ion Ratio Lower Upper

180 100

182 82.8 76.4 114.6

184 94.1 24.2 36.4#

145 36.9 25.4 38.2



#70

1,2,4-trichlorobenzene

Concen: 1.006 ug/L

RT: 13.198 min Scan# 3781

Delta R.T. 0.007 min

Lab File: VV037007.D

Acq: 22 Aug 2024 14:45

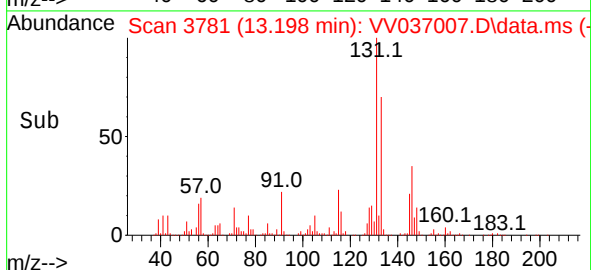
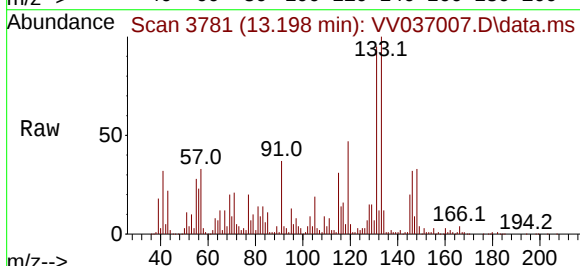
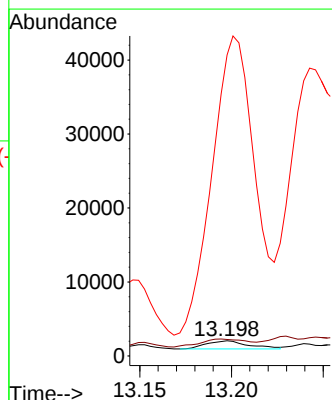
Tgt Ion:180 Resp: 1792

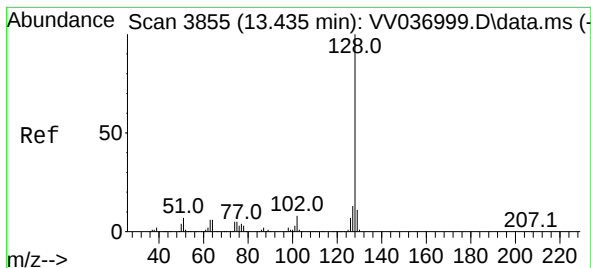
Ion Ratio Lower Upper

180 100

182 106.9 76.0 114.0

145 3676.3 25.8 38.6#





#71

Naphthalene

Concen: 35.669 ug/L

RT: 13.435 min Scan# 3855

Delta R.T. 0.000 min

Lab File: VV037007.D

Acq: 22 Aug 2024 14:45

Instrument :

MSVOA_V

ClientSampleId :

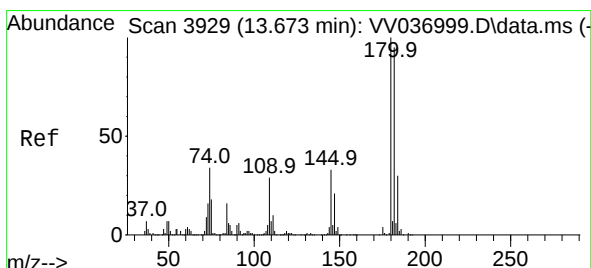
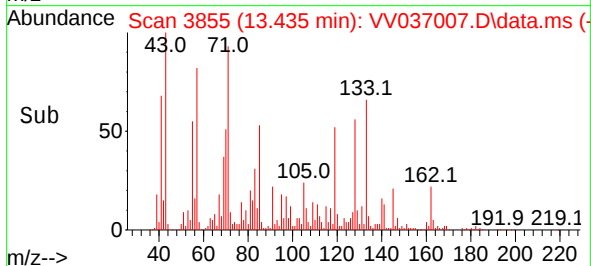
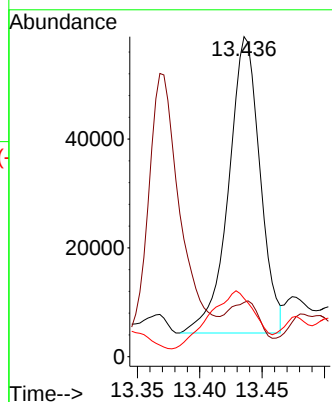
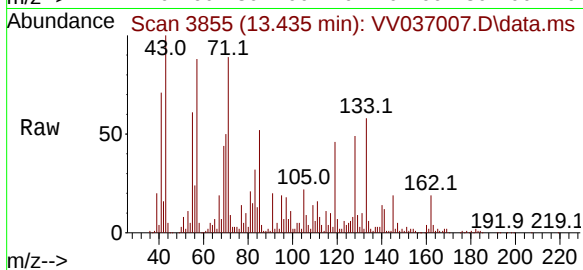
Tgt Ion:128 Resp: 95709

Ion Ratio Lower Upper

128 100

127 92.0 10.2 15.4#

129 28.6 8.6 13.0#



#72

1,2,3-Trichlorobenzene

Concen: 4.890 ug/L

RT: 13.699 min Scan# 3937

Delta R.T. 0.026 min

Lab File: VV037007.D

Acq: 22 Aug 2024 14:45

Tgt Ion:180 Resp: 7212

Ion Ratio Lower Upper

180 100

182 9.3 76.2 114.4#

145 1574.0 26.6 40.0#

