

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV052324\
 Data File : VV035691.D
 Acq On : 23 May 2024 10:22
 Operator : SY/MD
 Sample : P2566-06
 Misc : 3.78g/10.0mL/MSVOA_V/SOIL/A
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 24 01:45:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM050624SMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri May 24 01:44:38 2024
 Response via : Initial Calibration

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

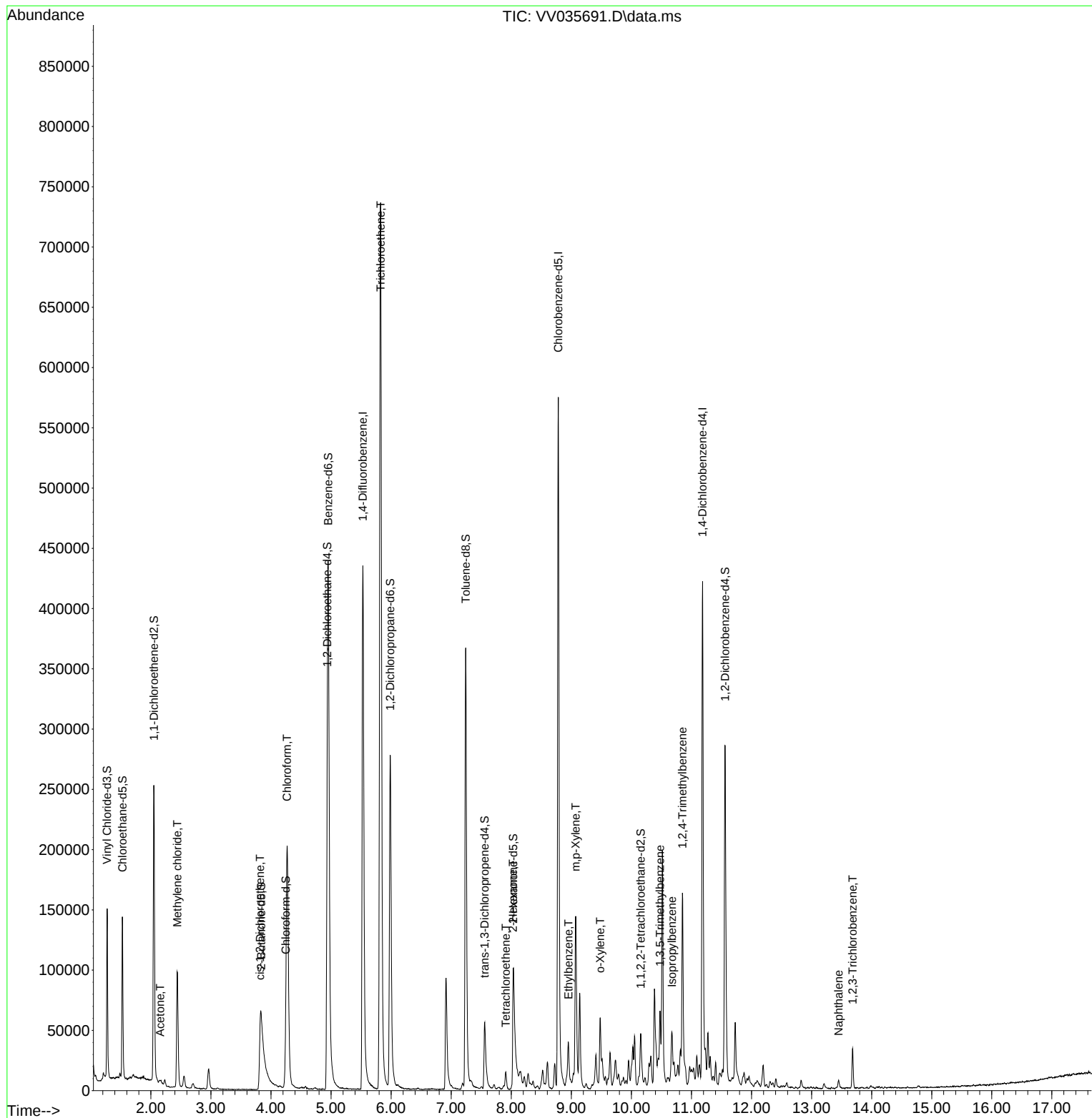
Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	396558	25.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	333653	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.185	152	111009	25.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.272	65	90032	14.689	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	58.760%
7) Chloroethane-d5	1.526	69	87504	17.697	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	70.800%
11) 1,1-Dichloroethene-d2	2.050	65	42816	15.779	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	63.120%
21) 2-Butanone-d5	3.838	46	67831	38.996	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	78.000%
24) Chloroform-d	4.246	84	30280	2.568	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	10.280%#
26) 1,2-Dichloroethane-d4	4.937	65	132851	22.794	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	91.160%
32) Benzene-d6	4.953	84	392553	21.493	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	85.960%
36) 1,2-Dichloropropane-d6	5.986	67	146621	26.013	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	104.040%
41) Toluene-d8	7.243	98	265382	16.326	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	65.320%
43) trans-1,3-Dichloroprop...	7.558	79	39393	16.342	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	65.360%
47) 2-Hexanone-d5	8.034	63	34238	33.781	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	67.560%
56) 1,1,2,2-Tetrachloroeth...	10.156	84	2142	0.394	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	1.560%#
66) 1,2-Dichlorobenzene-d4	11.561	152	76049	19.740	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	78.960%
Target Compounds						Qvalue
13) Acetone	2.156	43	11258	4.421	ug/L	91
16) Methylene chloride	2.439	84	42928	4.694	ug/L	93
20) cis-1,2-Dichloroethene	3.818	96	15044	2.009	ug/L	95
25) Chloroform	4.269	83	209295	15.655	ug/L	97
34) Trichloroethene	5.828	95	224923	36.009	ug/L	98
46) Tetrachloroethene	7.908	164	3366	0.663	ug/L	84
48) 2-Hexanone	8.030	43	3029	1.171	ug/L #	36
52) Ethylbenzene	8.953	91	24954	0.967	ug/L	95
53) m,p-Xylene	9.072	106	39283	4.013	ug/L	98
54) o-Xylene	9.481	106	15314	1.651	ug/L	96
60) Isopropylbenzene	10.673	105	25702	1.738	ug/L	93
62) 1,3,5-Trimethylbenzene	10.477	105	31547	2.720	ug/L	99
63) 1,2,4-Trimethylbenzene	10.850	105	81184	6.810	ug/L	97
71) Naphthalene	13.451	128	6883	0.774	ug/L #	87
72) 1,2,3-Trichlorobenzene	13.683	180	1618	0.355	ug/L #	93

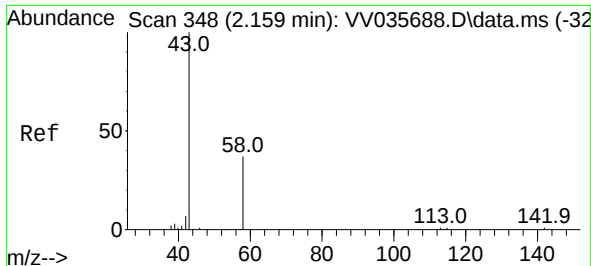
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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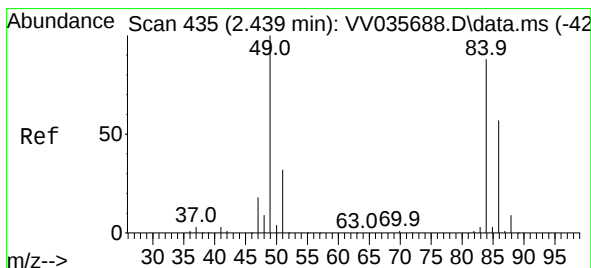
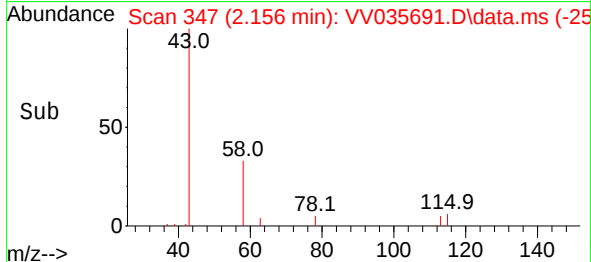
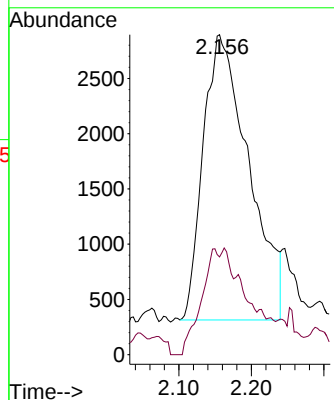
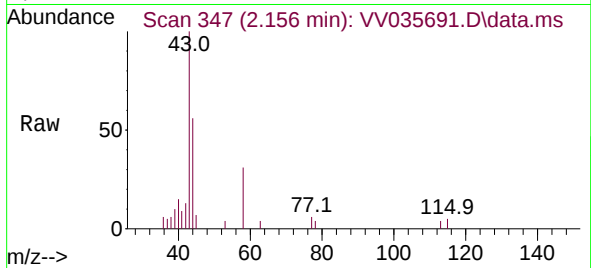




#13
Acetone
Concen: 4.421 ug/L
RT: 2.156 min Scan# 348
Delta R.T. -0.003 min
Lab File: VV035691.D
Acq: 23 May 2024 10:22

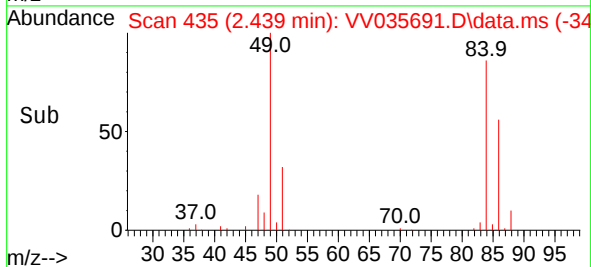
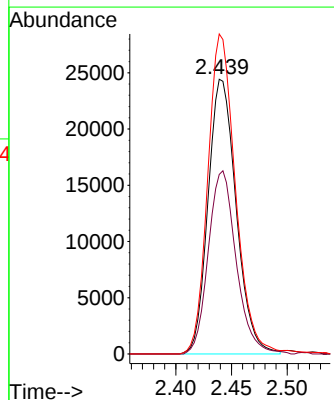
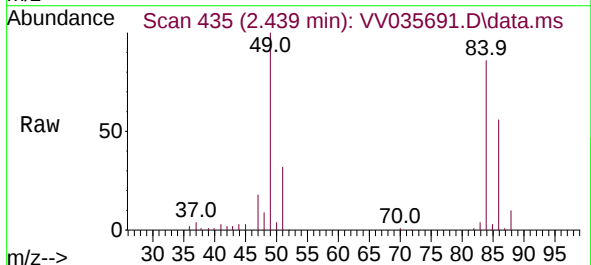
Instrument :
MSVOA_V
ClientSampleId :

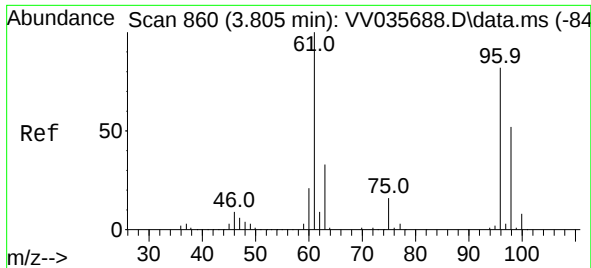
Tgt Ion: 43 Resp: 11258
Ion Ratio Lower Upper
43 100
58 14.9 0.0 22.8



#16
Methylene chloride
Concen: 4.694 ug/L
RT: 2.439 min Scan# 435
Delta R.T. 0.000 min
Lab File: VV035691.D
Acq: 23 May 2024 10:22

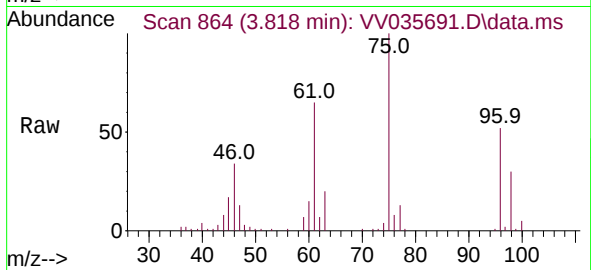
Tgt Ion: 84 Resp: 42928
Ion Ratio Lower Upper
84 100
86 65.4 43.8 81.3
49 116.5 75.3 139.9



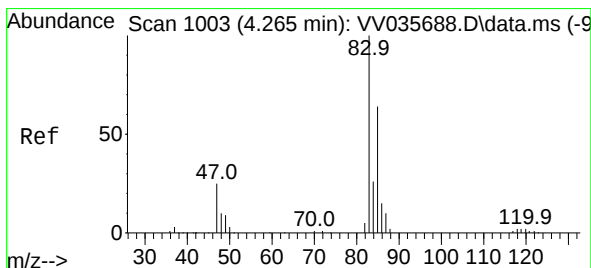
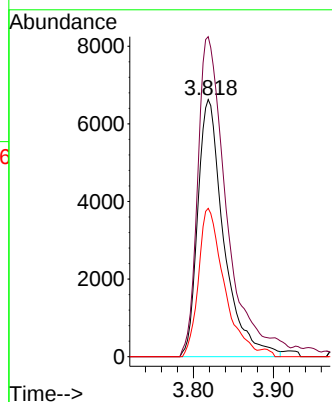
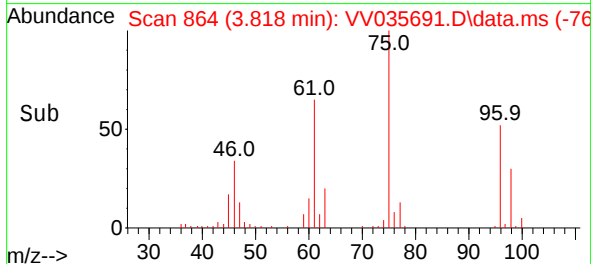


#20
cis-1,2-Dichloroethene
Concen: 2.009 ug/L
RT: 3.818 min Scan# 860
Delta R.T. 0.013 min
Lab File: VV035691.D
Acq: 23 May 2024 10:22

Instrument :
MSVOA_V
ClientSampleId :

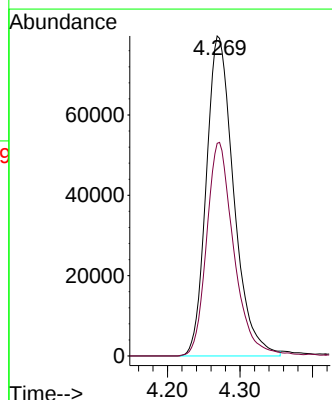
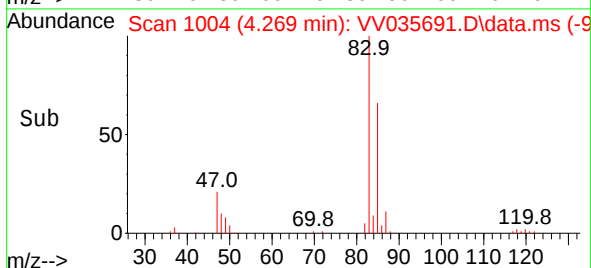
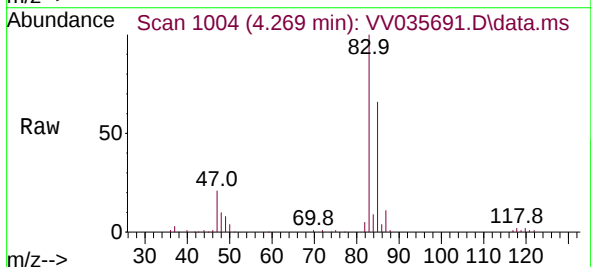


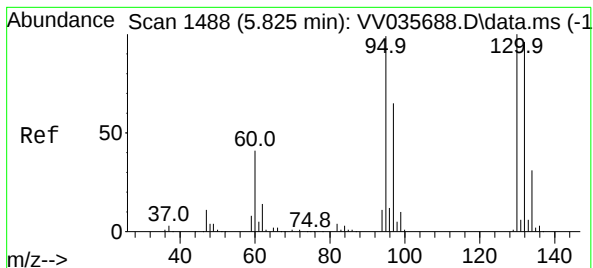
Tgt Ion: 96 Resp: 15044
Ion Ratio Lower Upper
96 100
61 124.4 83.9 155.9
98 57.7 44.0 81.8



#25
Chloroform
Concen: 15.655 ug/L
RT: 4.269 min Scan# 1004
Delta R.T. 0.003 min
Lab File: VV035691.D
Acq: 23 May 2024 10:22

Tgt Ion: 83 Resp: 209295
Ion Ratio Lower Upper
83 100
85 66.4 44.7 82.9





#34

Trichloroethene

Concen: 36.009 ug/L

RT: 5.828 min Scan# 1489

Delta R.T. 0.003 min

Lab File: VV035691.D

Acq: 23 May 2024 10:22

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion: 95 Resp: 224923

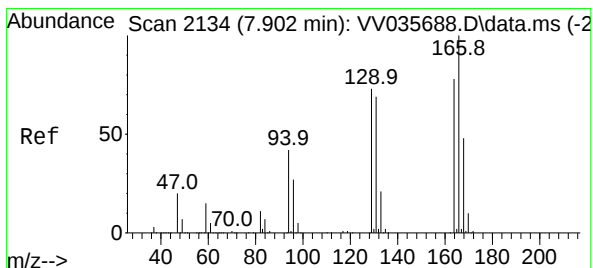
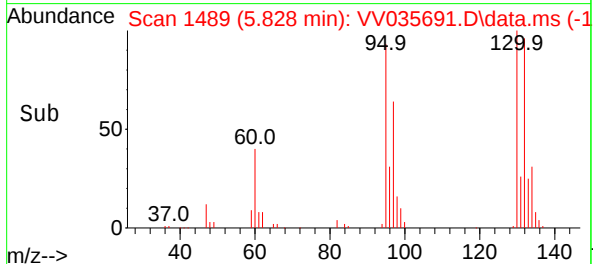
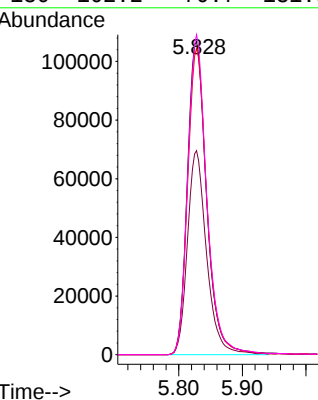
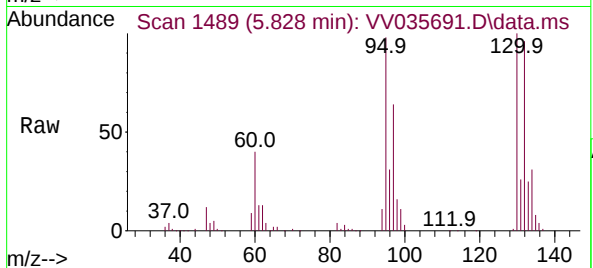
Ion Ratio Lower Upper

95 100

97 65.2 43.8 81.4

132 97.8 67.1 124.7

130 102.2 70.7 131.3



#46

Tetrachloroethene

Concen: 0.663 ug/L

RT: 7.908 min Scan# 2136

Delta R.T. 0.007 min

Lab File: VV035691.D

Acq: 23 May 2024 10:22

Tgt Ion:164 Resp: 3366

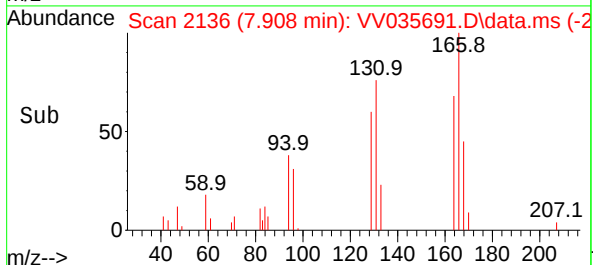
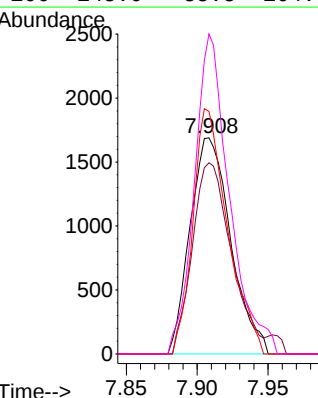
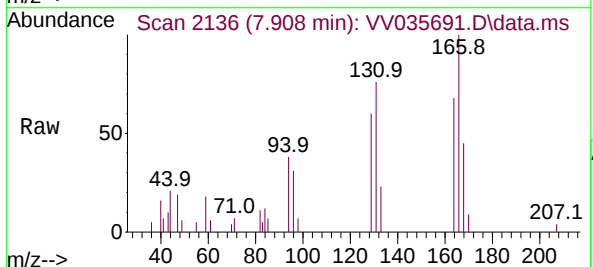
Ion Ratio Lower Upper

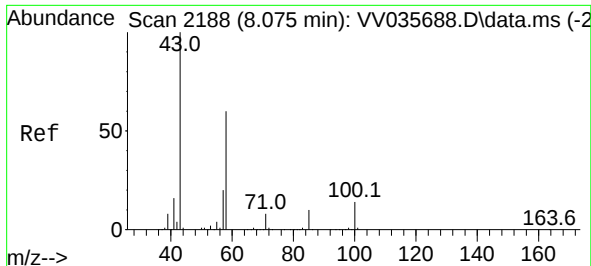
164 100

129 88.4 63.4 117.8

131 112.2 61.0 113.4

166 148.0 88.8 164.8





#48

2-Hexanone

Concen: 1.171 ug/L

RT: 8.030 min Scan# 2188

Delta R.T. -0.045 min

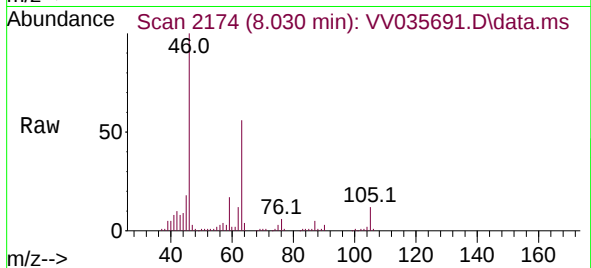
Lab File: VV035691.D

Acq: 23 May 2024 10:22

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion: 43 Resp: 3029

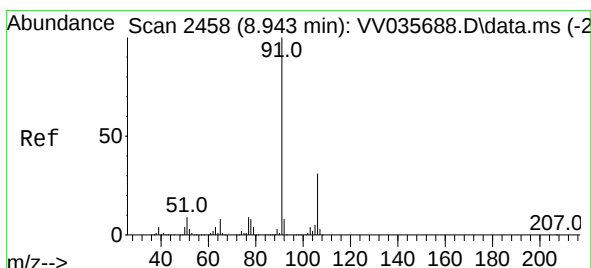
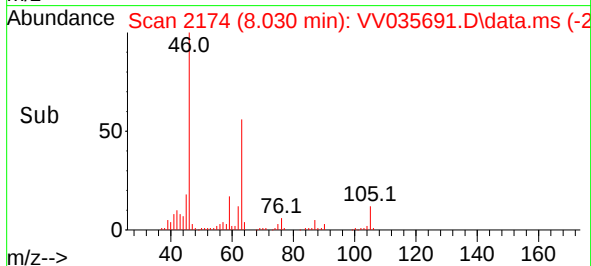
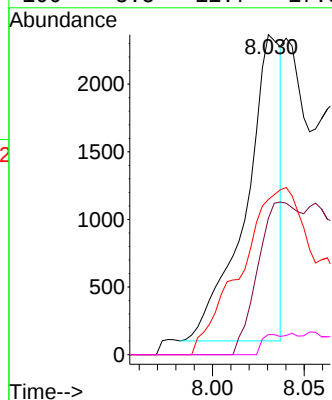
Ion Ratio Lower Upper

43 100

58 0.0 48.8 73.2#

57 0.0 16.9 25.3#

100 3.5 11.7 17.5#



#52

Ethylbenzene

Concen: 0.967 ug/L

RT: 8.953 min Scan# 2461

Delta R.T. 0.010 min

Lab File: VV035691.D

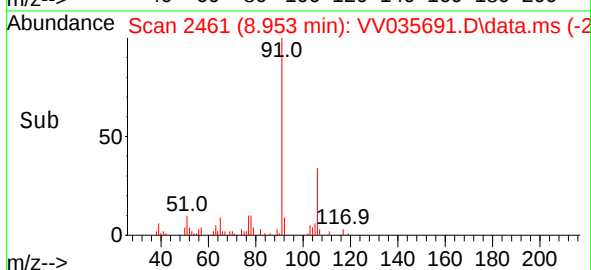
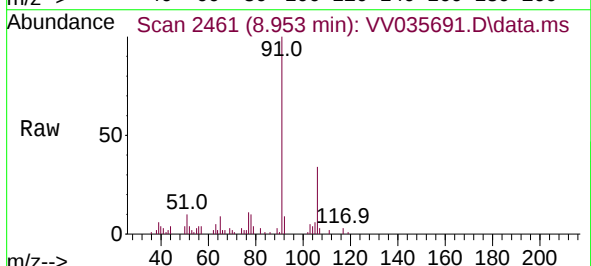
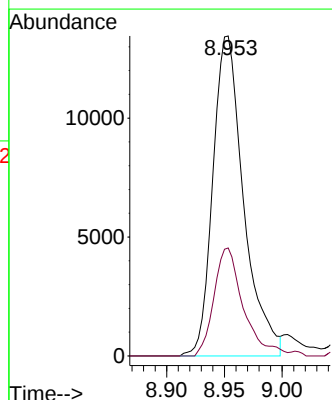
Acq: 23 May 2024 10:22

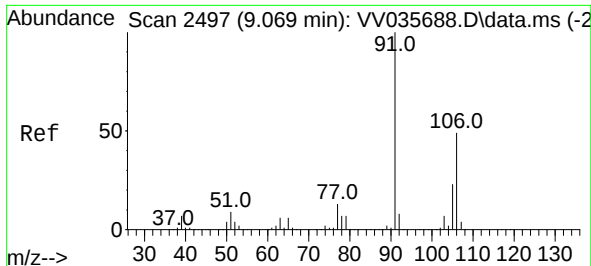
Tgt Ion: 91 Resp: 24954

Ion Ratio Lower Upper

91 100

106 33.8 21.7 40.3





#53

m,p-Xylene

Concen: 4.013 ug/L

RT: 9.072 min Scan# 2497

Delta R.T. 0.003 min

Lab File: VV035691.D

Acq: 23 May 2024 10:22

Instrument :

MSVOA_V

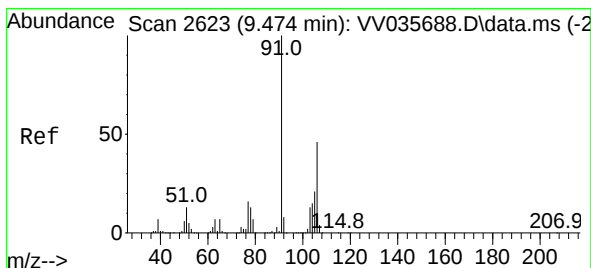
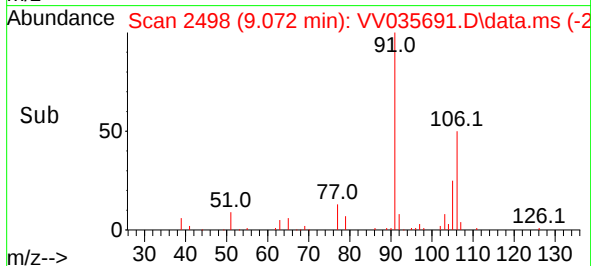
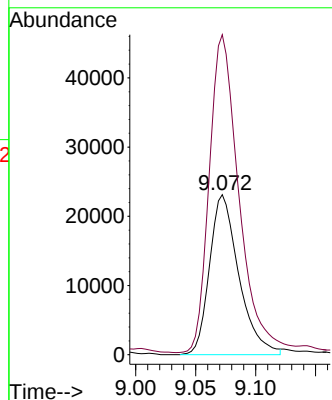
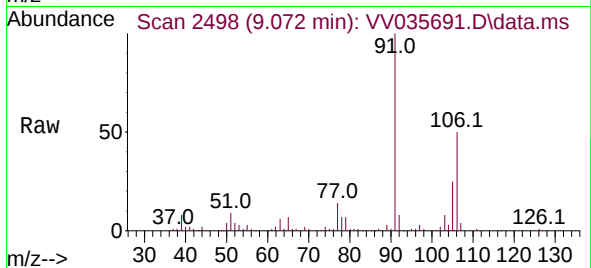
ClientSampleId :

Tgt Ion:106 Resp: 39283

Ion Ratio Lower Upper

106 100

91 200.0 142.7 264.9



#54

o-Xylene

Concen: 1.651 ug/L

RT: 9.481 min Scan# 2625

Delta R.T. 0.007 min

Lab File: VV035691.D

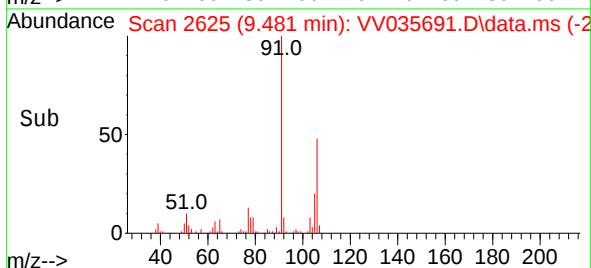
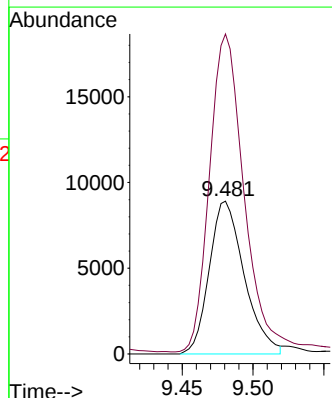
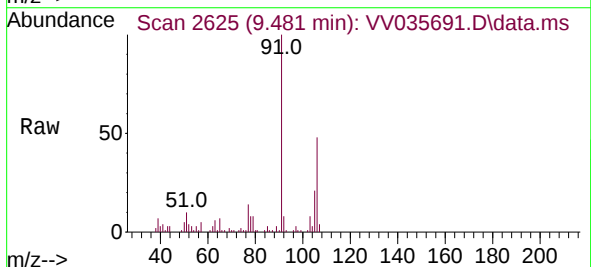
Acq: 23 May 2024 10:22

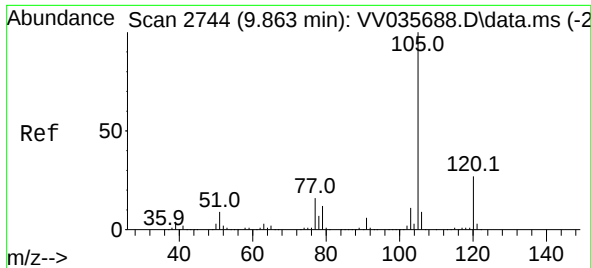
Tgt Ion:106 Resp: 15314

Ion Ratio Lower Upper

106 100

91 209.4 150.9 280.3

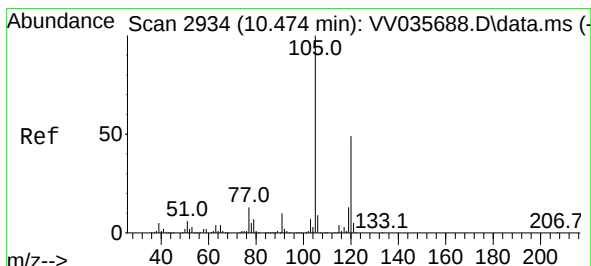
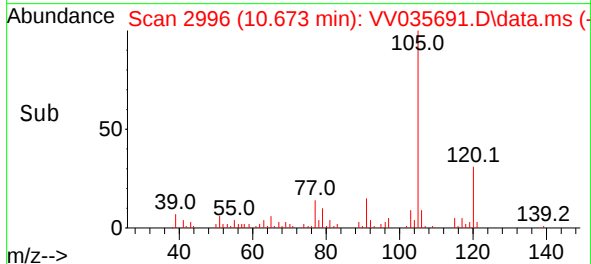
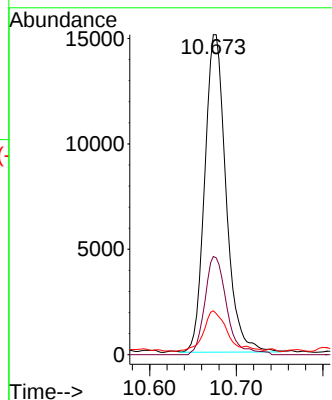
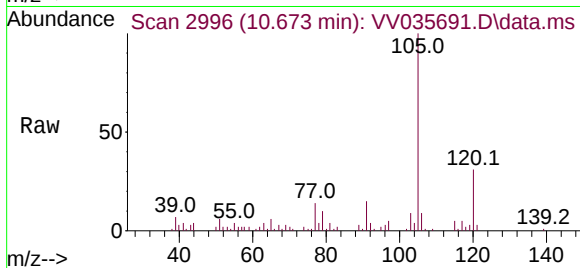




#60
Isopropylbenzene
Concen: 1.738 ug/L
RT: 10.673 min Scan# 20
Delta R.T. 0.810 min
Lab File: VV035691.D
Acq: 23 May 2024 10:22

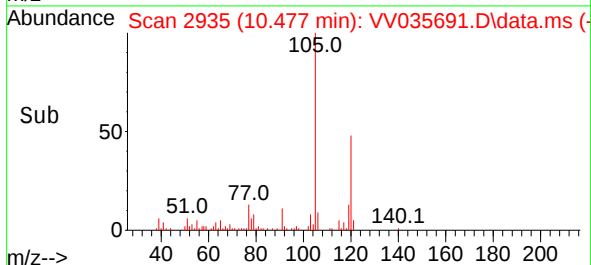
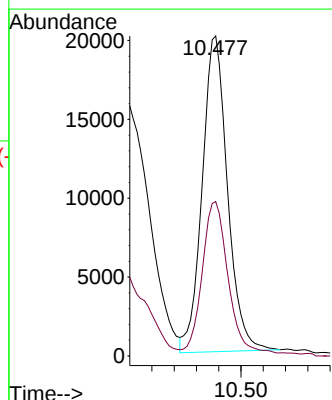
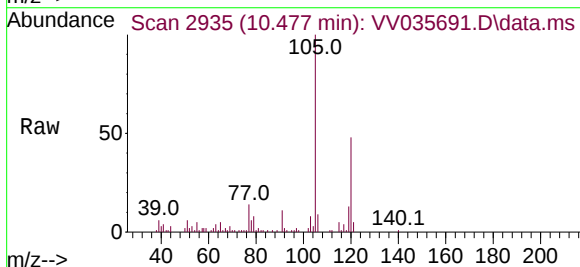
Instrument :
MSVOA_V
ClientSampleId :

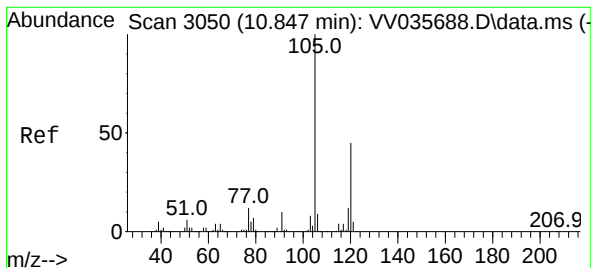
Tgt Ion:105 Resp: 25702
Ion Ratio Lower Upper
105 100
120 30.5 21.3 31.9
77 13.2 12.2 18.2



#62
1,3,5-Trimethylbenzene
Concen: 2.720 ug/L
RT: 10.477 min Scan# 2935
Delta R.T. 0.003 min
Lab File: VV035691.D
Acq: 23 May 2024 10:22

Tgt Ion:105 Resp: 31547
Ion Ratio Lower Upper
105 100
120 48.7 39.4 59.0





#63

1,2,4-Trimethylbenzene

Concen: 6.810 ug/L

RT: 10.850 min Scan# 3050

Delta R.T. 0.003 min

Lab File: VV035691.D

Acq: 23 May 2024 10:22

Instrument :

MSVOA_V

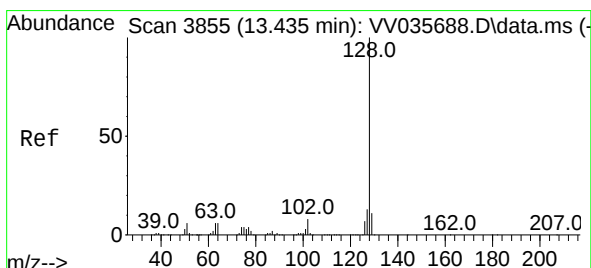
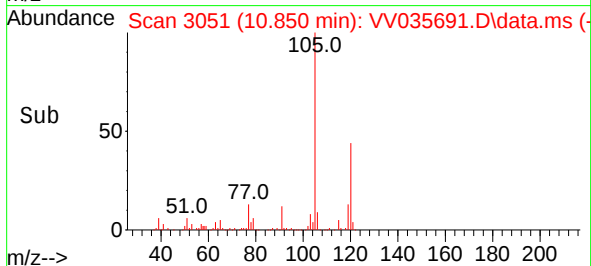
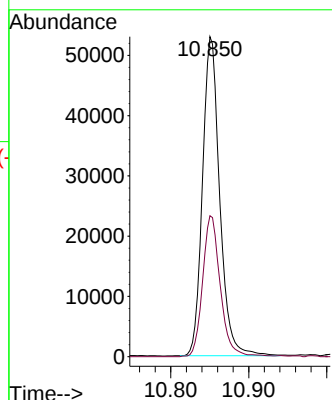
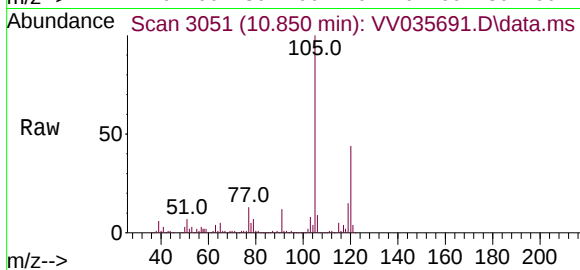
ClientSampleId :

Tgt Ion:105 Resp: 81184

Ion Ratio Lower Upper

105 100

120 44.1 36.6 55.0



#71

Naphthalene

Concen: 0.774 ug/L

RT: 13.451 min Scan# 3860

Delta R.T. 0.016 min

Lab File: VV035691.D

Acq: 23 May 2024 10:22

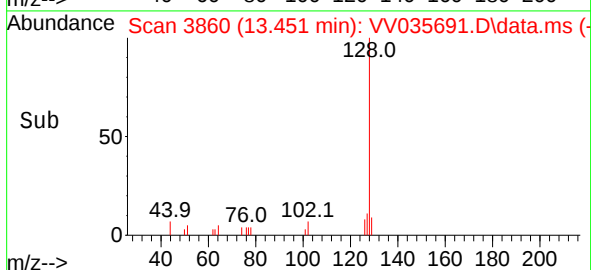
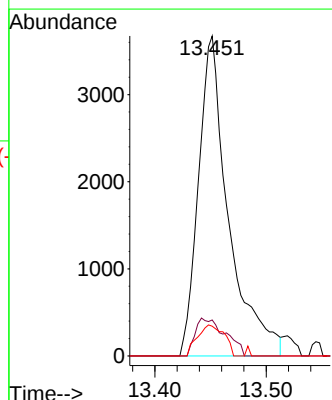
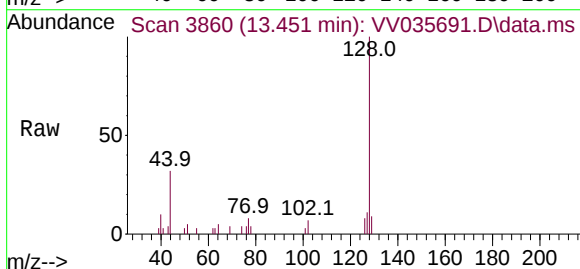
Tgt Ion:128 Resp: 6883

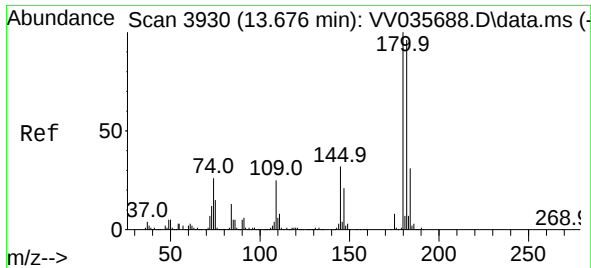
Ion Ratio Lower Upper

128 100

127 5.5 10.4 15.6#

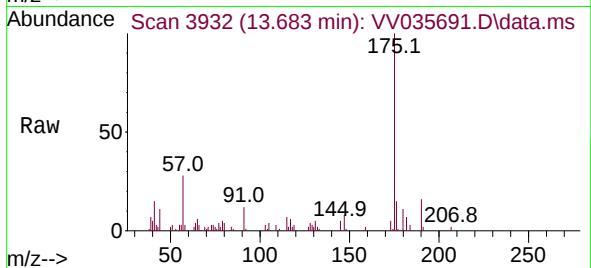
129 8.6 8.6 13.0#





#72
 1,2,3-Trichlorobenzene
 Concen: 0.355 ug/L
 RT: 13.683 min Scan# 3932
 Delta R.T. 0.007 min
 Lab File: VV035691.D
 Acq: 23 May 2024 10:22

Instrument :
 MSVOA_V
 ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.3	75.8	113.6
145	46.7	25.2	37.8

