

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VV072224\
 Data File : VV036624.D
 Acq On : 22 Jul 2024 11:00
 Operator : SY/MD
 Sample : VIBLK
 Misc : 5.00g/10.0mL/MSVOA_V/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 23 01:54:41 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM072224SMA.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jul 23 01:49:06 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.529	114	403723	25.000	ug/L	0.00
28) Chlorobenzene-d5	8.783	117	397045	25.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.181	152	201584	25.000	ug/L	0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.272	65	98346	22.241	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.960%
7) Chloroethane-d5	1.529	69	92053	23.050	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	92.200%
11) 1,1-Dichloroethene-d2	2.050	65	51773	22.144	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	88.560%
21) 2-Butanone-d5	3.850	46	29556	28.641	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	57.280%
24) Chloroform-d	4.243	84	229568	21.500	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	86.000%
26) 1,2-Dichloroethane-d4	4.937	65	115519	21.930	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	87.720%
32) Benzene-d6	4.953	84	433831	23.054	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	92.200%
36) 1,2-Dichloropropane-d6	5.985	67	124082	23.142	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	92.560%
41) Toluene-d8	7.239	98	407256	22.678	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	90.720%
43) trans-1,3-Dichloroprop...	7.554	79	49860	20.918	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	83.680%
47) 2-Hexanone-d5	8.037	63	26688	37.401	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	74.800%
56) 1,1,2,2-Tetrachloroeth...	10.149	84	96102	20.564	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	82.240%
66) 1,2-Dichlorobenzene-d4	11.558	152	174760	24.835	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	99.320%

Target Compounds					Qvalue	
16) Methylene chloride	2.439	84	35536	4.731	ug/L	97
25) Chloroform	4.272	83	6062	0.509	ug/L	97
46) Tetrachloroethene	7.905	164	5982	0.817	ug/L	96
48) 2-Hexanone	8.101	43	3396	1.787	ug/L #	69
51) Chlorobenzene	8.815	112	10941	0.605	ug/L	90
52) Ethylbenzene	8.953	91	11427	0.416	ug/L	93
54) o-Xylene	9.480	106	3867	0.375	ug/L	97
55) Styrene	9.509	104	8246	0.472	ug/L	93
60) Isopropylbenzene	9.869	105	12162	0.493	ug/L	97
61) 1,2,3-Trichloropropane	10.214	75	1879	0.529	ug/L #	90
62) 1,3,5-Trimethylbenzene	10.477	105	7465	0.388	ug/L	98
63) 1,2,4-Trimethylbenzene	10.857	105	9463	0.486	ug/L	99
64) 1,3-Dichlorobenzene	11.123	146	14923	1.082	ug/L	99
65) 1,4-Dichlorobenzene	11.207	146	21169	1.491	ug/L	97
67) 1,2-Dichlorobenzene	11.574	146	17923	1.398	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.583	75	1869	2.233	ug/L #	1
69) 1,3,5-Trichlorobenzene	12.583	180	14265	1.311	ug/L	97
70) 1,2,4-trichlorobenzene	13.201	180	22947	2.597	ug/L	98
71) Naphthalene	13.438	128	84334	6.416	ug/L	99

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Quant Time: Jul 23 01:54:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM072224SMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jul 23 01:49:06 2024
Response via : Initial Calibration

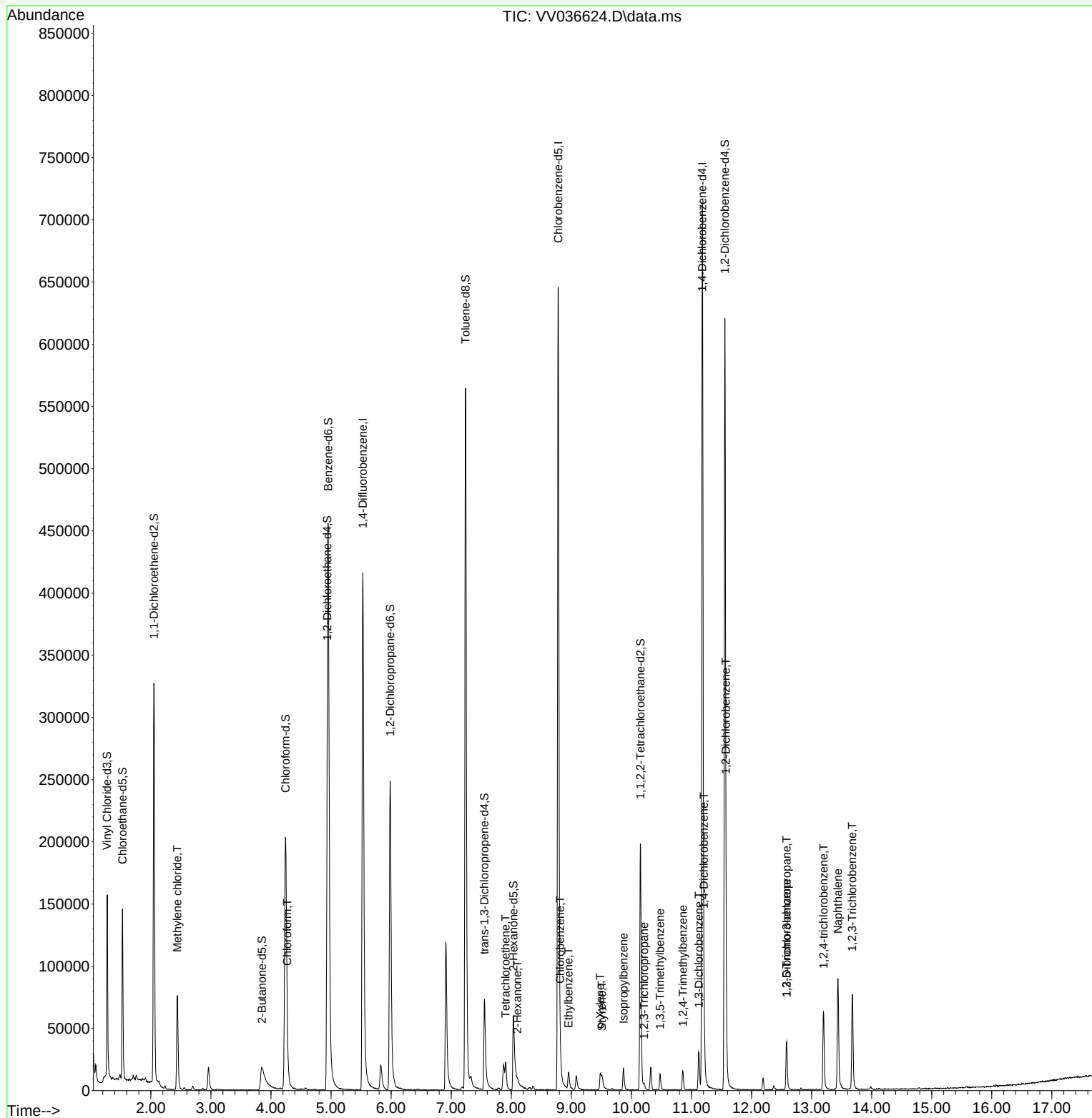
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 1,2,3-Trichlorobenzene	13.676	180	25530	3.202	ug/L	99

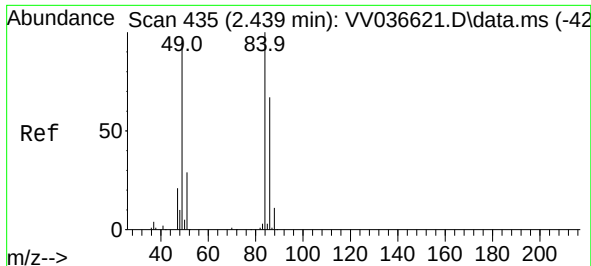
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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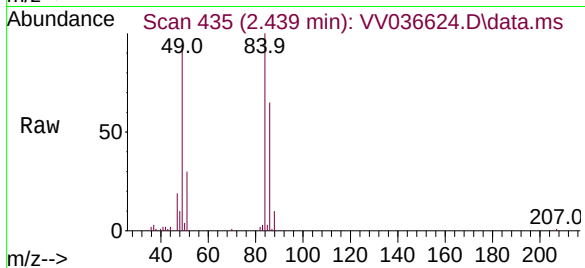
Quant Time: Jul 23 01:54:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM072224SMA.M
Quant Title : VOC Analysis
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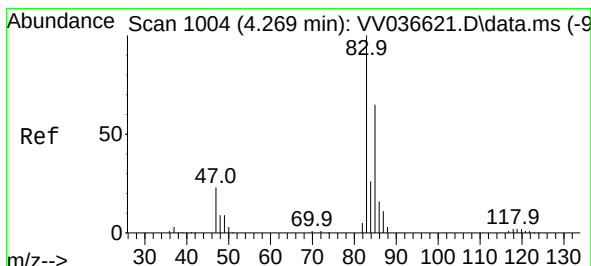
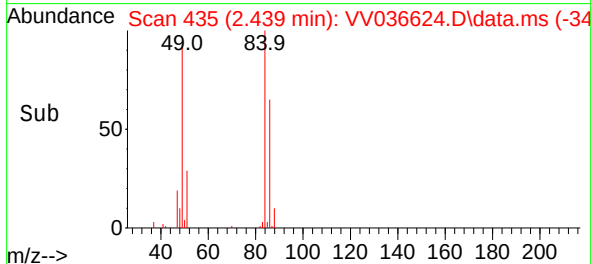
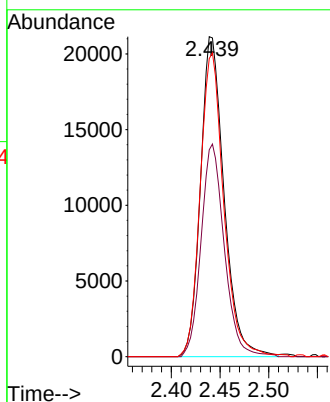


#16
Methylene chloride
Concen: 4.731 ug/L
RT: 2.439 min Scan# 41
Delta R.T. -0.000 min
Lab File: VV036624.D
Acq: 22 Jul 2024 11:00

Instrument :
MSVOA_V
ClientSampleId :

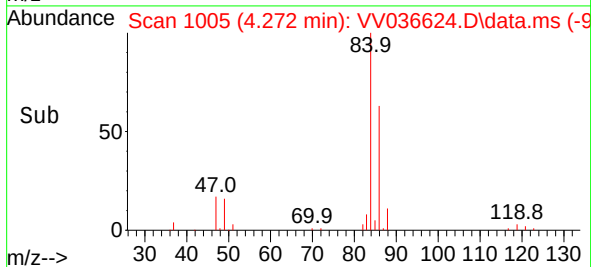
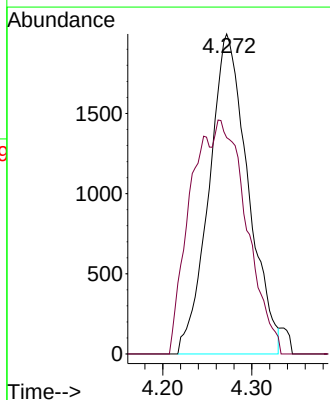
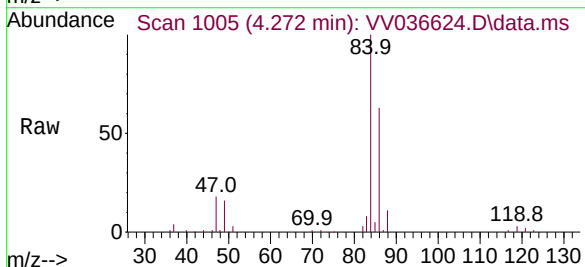


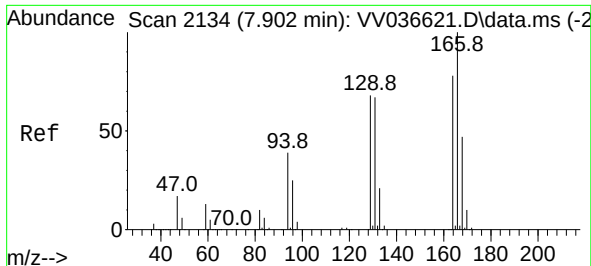
Tgt Ion: 84 Resp: 35536
Ion Ratio Lower Upper
84 100
86 64.6 47.2 87.6
49 93.1 67.3 125.1



#25
Chloroform
Concen: 0.509 ug/L
RT: 4.272 min Scan# 1005
Delta R.T. 0.003 min
Lab File: VV036624.D
Acq: 22 Jul 2024 11:00

Tgt Ion: 83 Resp: 6062
Ion Ratio Lower Upper
83 100
85 67.6 45.6 84.6





#46

Tetrachloroethene

Concen: 0.817 ug/L

RT: 7.905 min Scan# 2135

Delta R.T. 0.003 min

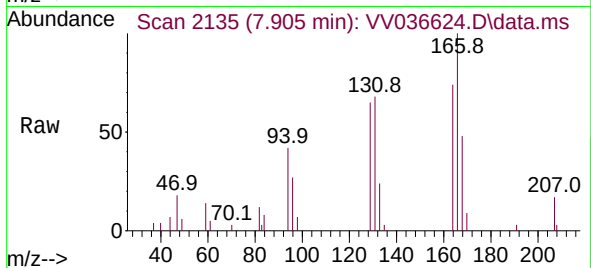
Lab File: VV036624.D

Acq: 22 Jul 2024 11:00

Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:164 Resp: 5982

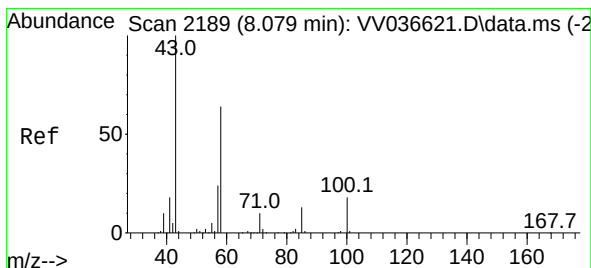
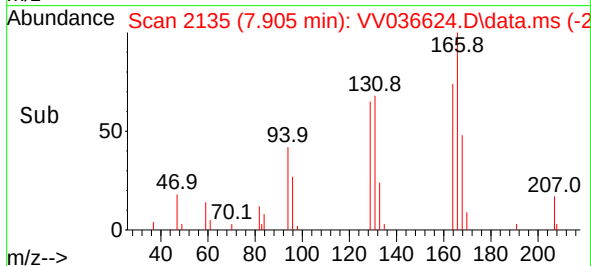
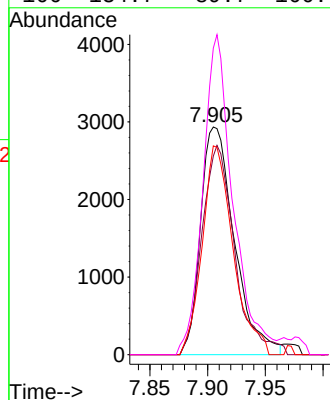
Ion Ratio Lower Upper

164 100

129 87.3 61.0 113.2

131 91.8 60.1 111.5

166 134.7 89.7 166.7



#48

2-Hexanone

Concen: 1.787 ug/L

RT: 8.101 min Scan# 2196

Delta R.T. 0.022 min

Lab File: VV036624.D

Acq: 22 Jul 2024 11:00

Tgt Ion: 43 Resp: 3396

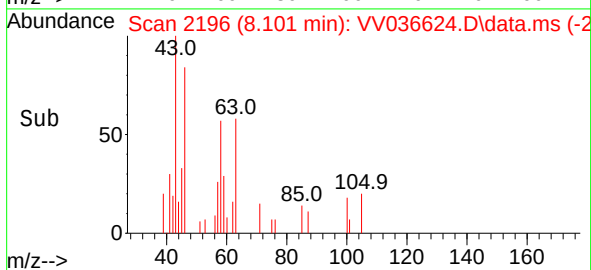
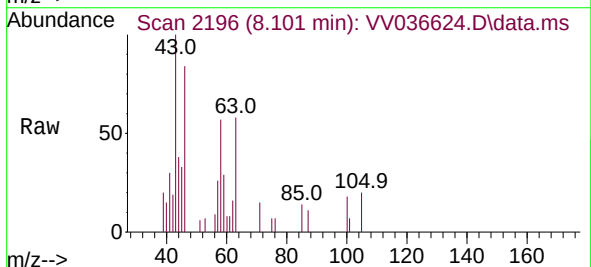
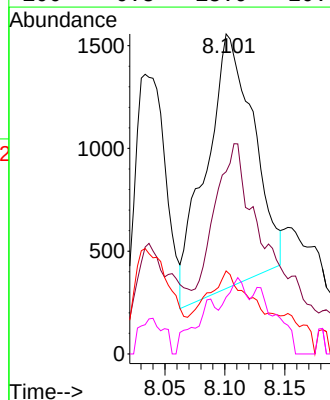
Ion Ratio Lower Upper

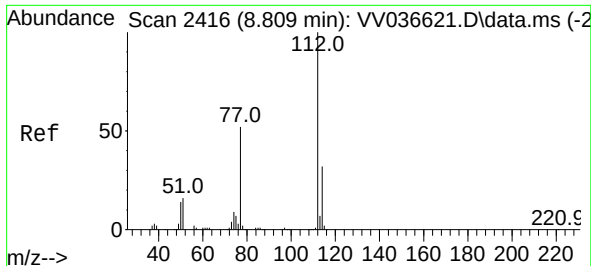
43 100

58 34.2 50.6 75.8#

57 13.2 17.7 26.5#

100 6.8 13.9 20.9#





#51

Chlorobenzene

Concen: 0.605 ug/L

RT: 8.815 min Scan# 2416

Delta R.T. 0.006 min

Lab File: VV036624.D

Acq: 22 Jul 2024 11:00

Instrument :

MSVOA_V

ClientSampleId :

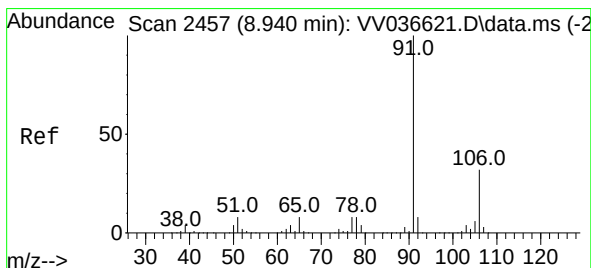
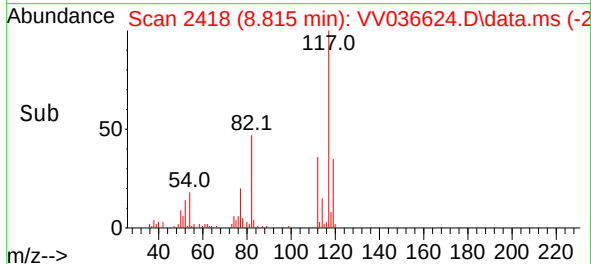
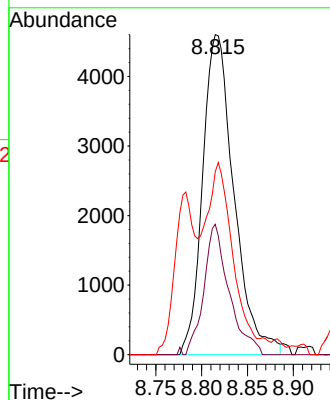
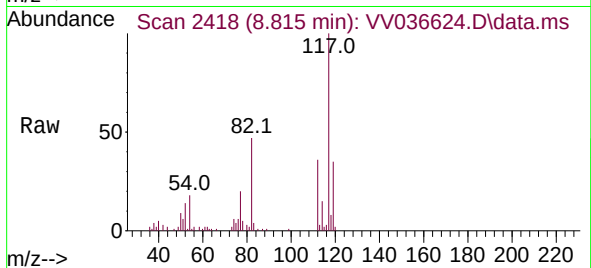
Tgt Ion:112 Resp: 10941

Ion Ratio Lower Upper

112 100

114 40.8 22.5 41.7

77 57.2 41.9 62.9



#52

Ethylbenzene

Concen: 0.416 ug/L

RT: 8.953 min Scan# 2461

Delta R.T. 0.013 min

Lab File: VV036624.D

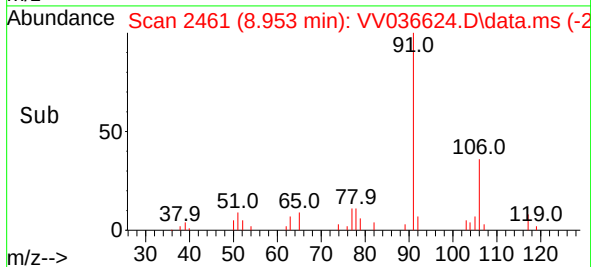
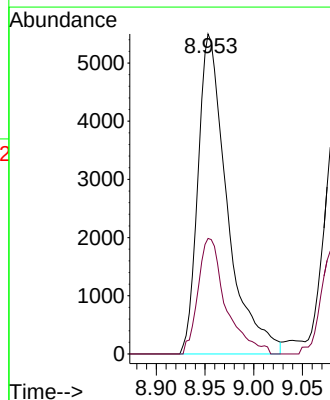
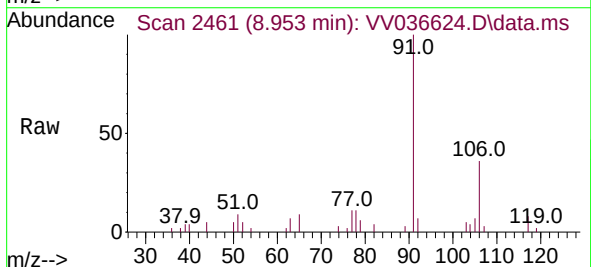
Acq: 22 Jul 2024 11:00

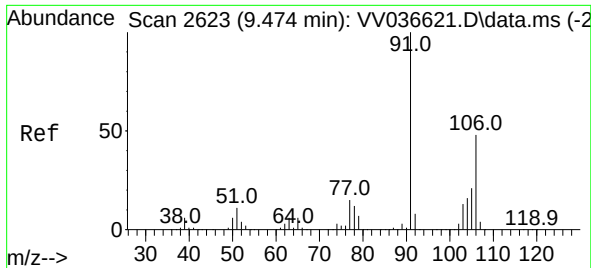
Tgt Ion: 91 Resp: 11427

Ion Ratio Lower Upper

91 100

106 36.1 22.5 41.7





#54

o-Xylene

Concen: 0.375 ug/L

RT: 9.480 min Scan# 2

Delta R.T. 0.006 min

Lab File: VV036624.D

Acq: 22 Jul 2024 11:00

Instrument :

MSVOA_V

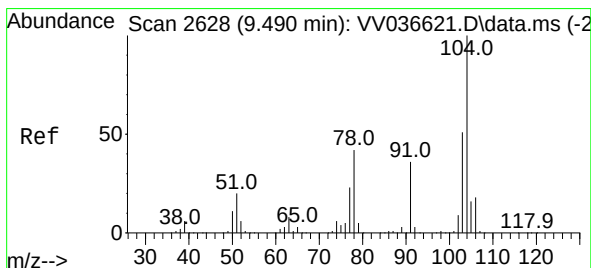
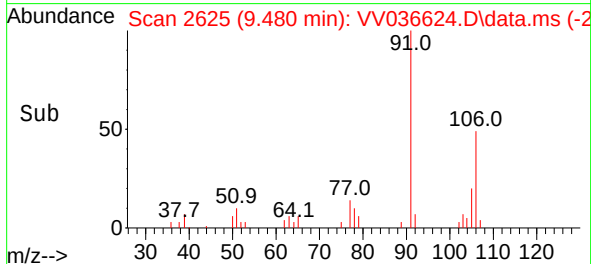
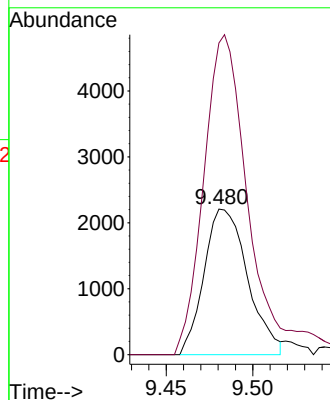
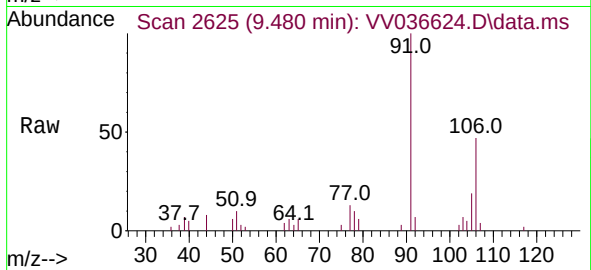
ClientSampleId :

Tgt Ion:106 Resp: 3867

Ion Ratio Lower Upper

106 100

91 214.0 146.1 271.3



#55

Styrene

Concen: 0.472 ug/L

RT: 9.509 min Scan# 2634

Delta R.T. 0.019 min

Lab File: VV036624.D

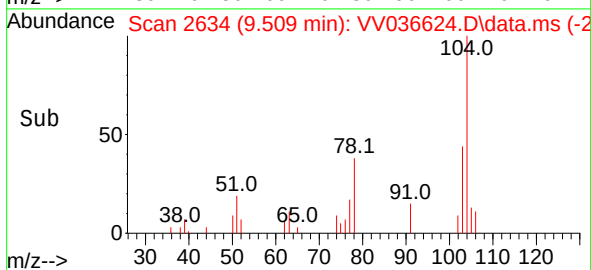
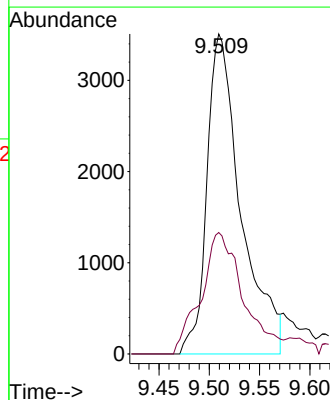
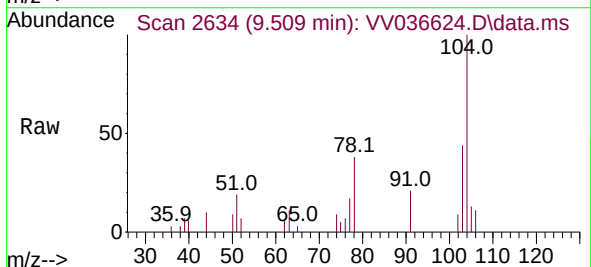
Acq: 22 Jul 2024 11:00

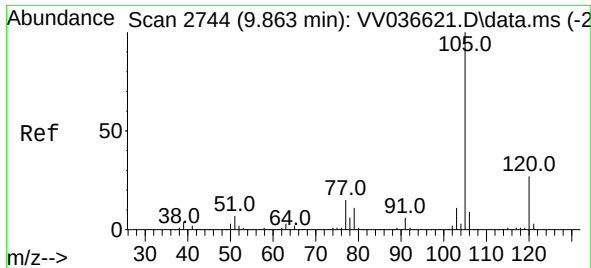
Tgt Ion:104 Resp: 8246

Ion Ratio Lower Upper

104 100

78 38.0 29.7 55.1

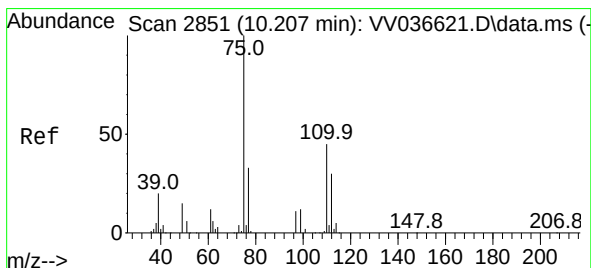
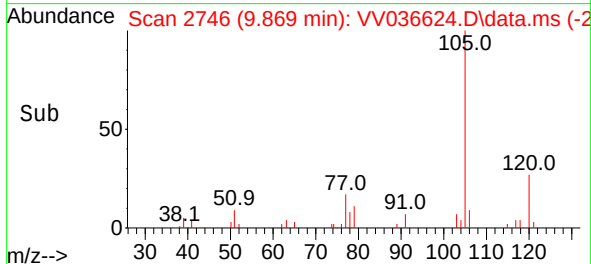
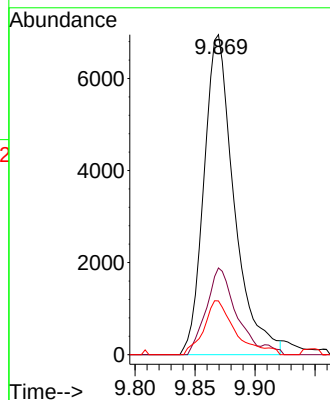
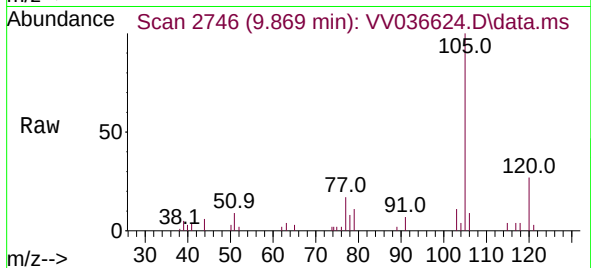




#60
Isopropylbenzene
Concen: 0.493 ug/L
RT: 9.869 min Scan# 21
Delta R.T. 0.006 min
Lab File: VV036624.D
Acq: 22 Jul 2024 11:00

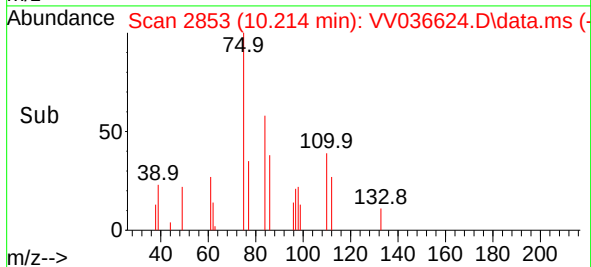
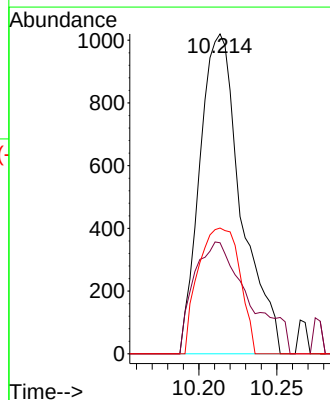
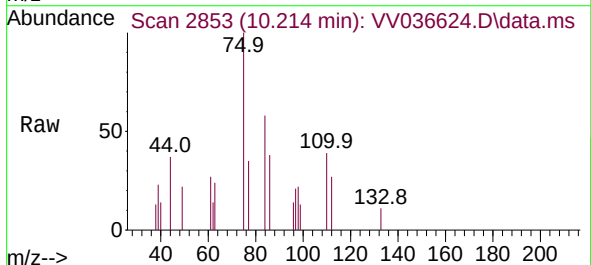
Instrument :
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ClientSampleId :

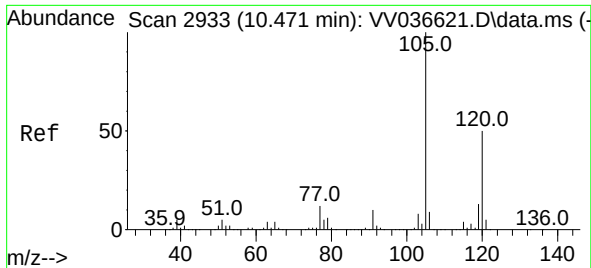
Tgt Ion:105 Resp: 12162
Ion Ratio Lower Upper
105 100
120 26.4 22.1 33.1
77 16.9 11.8 17.6



#61
1,2,3-Trichloropropane
Concen: 0.529 ug/L
RT: 10.214 min Scan# 2853
Delta R.T. 0.006 min
Lab File: VV036624.D
Acq: 22 Jul 2024 11:00

Tgt Ion: 75 Resp: 1879
Ion Ratio Lower Upper
75 100
77 39.1 25.9 38.9#
110 39.5 36.2 54.4





#62

1,3,5-Trimethylbenzene

Concen: 0.388 ug/L

RT: 10.477 min Scan# 2933

Delta R.T. 0.006 min

Lab File: VV036624.D

Acq: 22 Jul 2024 11:00

Instrument :

MSVOA_V

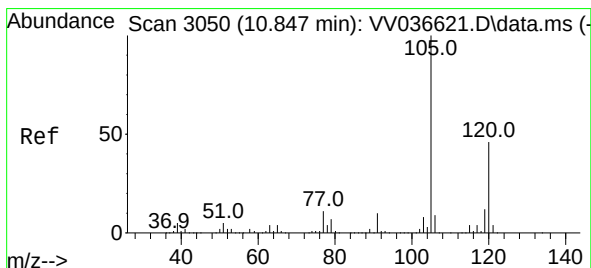
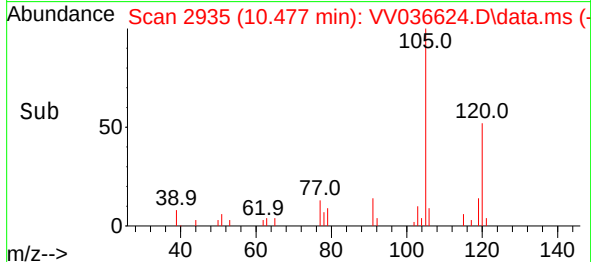
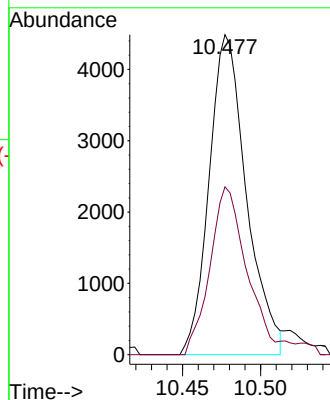
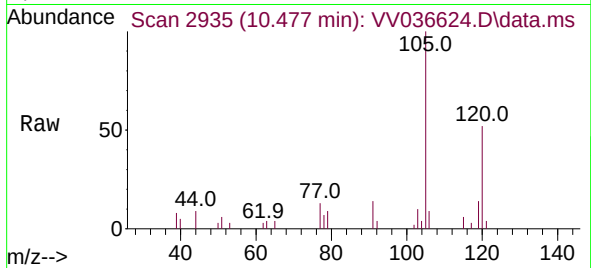
ClientSampleId :

Tgt Ion:105 Resp: 7465

Ion Ratio Lower Upper

105 100

120 51.3 39.8 59.8



#63

1,2,4-Trimethylbenzene

Concen: 0.486 ug/L

RT: 10.857 min Scan# 3053

Delta R.T. 0.009 min

Lab File: VV036624.D

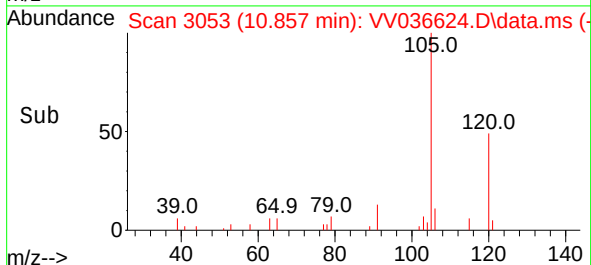
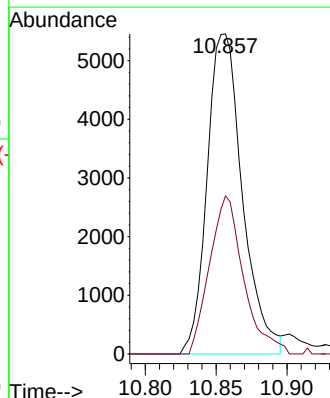
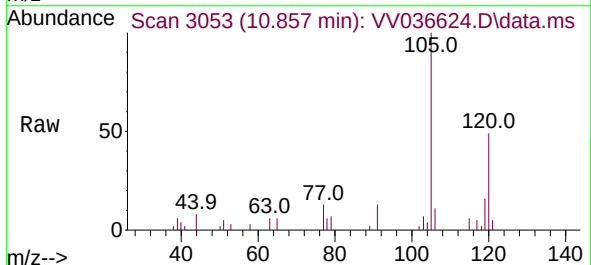
Acq: 22 Jul 2024 11:00

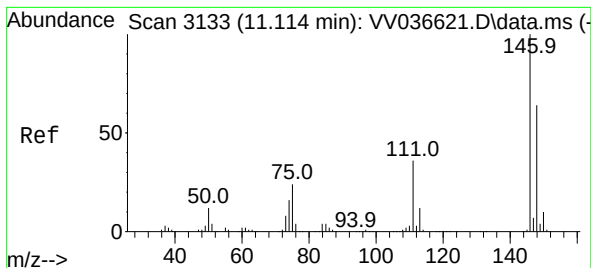
Tgt Ion:105 Resp: 9463

Ion Ratio Lower Upper

105 100

120 47.4 37.2 55.8





#64

1,3-Dichlorobenzene

Concen: 1.082 ug/L

RT: 11.123 min Scan# 3133

Delta R.T. 0.009 min

Lab File: VV036624.D

Acq: 22 Jul 2024 11:00

Instrument :

MSVOA_V

ClientSampleId :

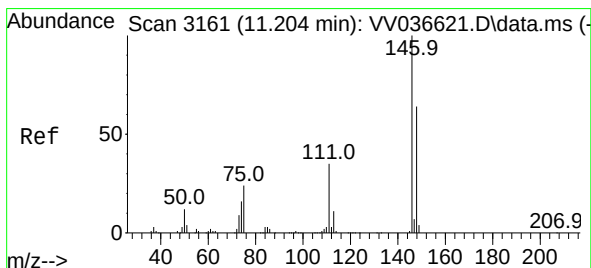
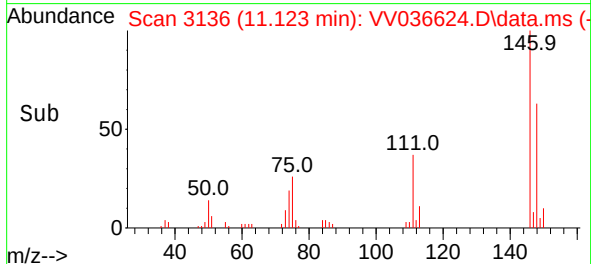
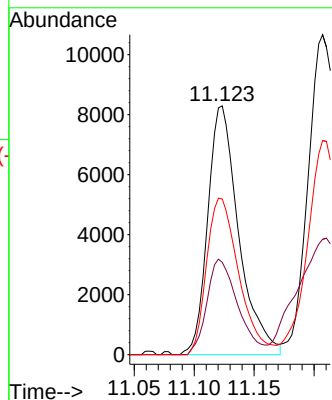
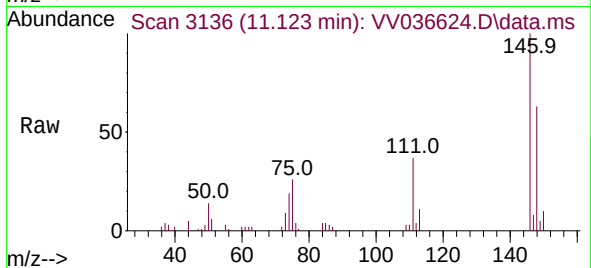
Tgt Ion:146 Resp: 14923

Ion Ratio Lower Upper

146 100

111 37.1 25.5 47.3

148 62.6 44.6 82.8



#65

1,4-Dichlorobenzene

Concen: 1.491 ug/L

RT: 11.207 min Scan# 3162

Delta R.T. 0.003 min

Lab File: VV036624.D

Acq: 22 Jul 2024 11:00

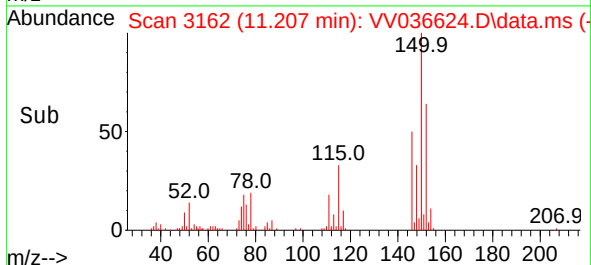
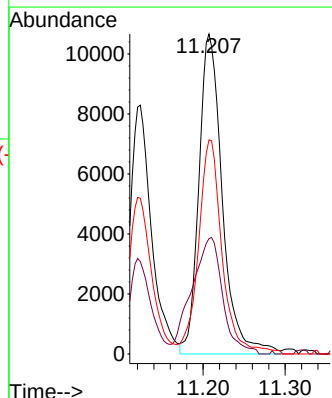
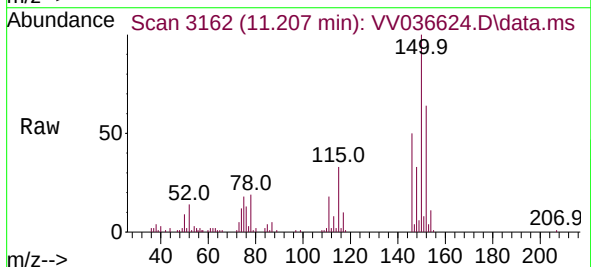
Tgt Ion:146 Resp: 21169

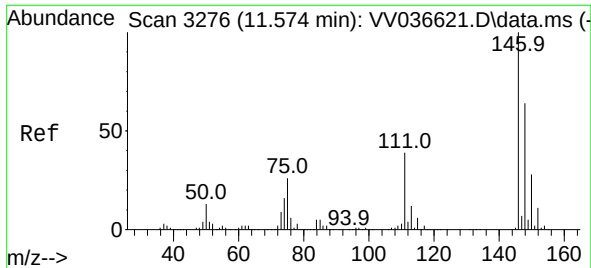
Ion Ratio Lower Upper

146 100

111 36.0 24.9 46.3

148 66.9 44.5 82.7





#67

1,2-Dichlorobenzene

Concen: 1.398 ug/L

RT: 11.574 min Scan# 31

Delta R.T. -0.000 min

Lab File: VV036624.D

Acq: 22 Jul 2024 11:00

Instrument :

MSVOA_V

ClientSampleId :

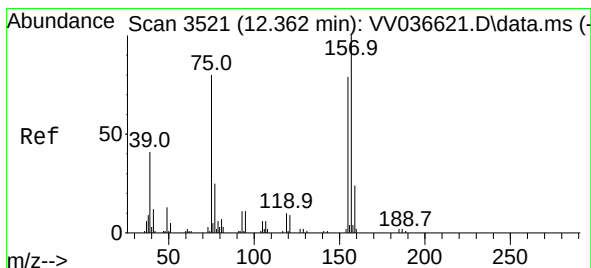
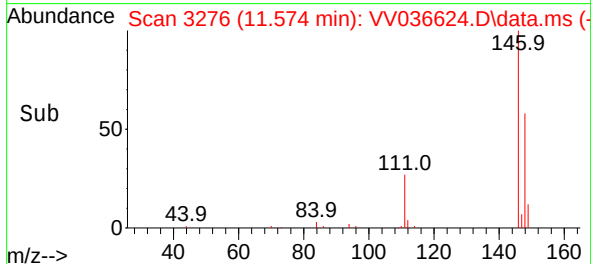
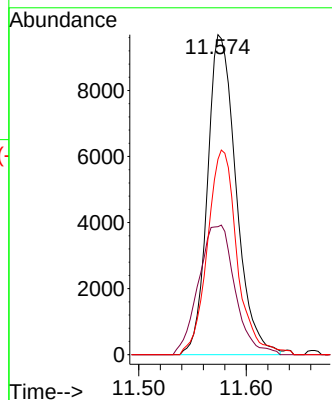
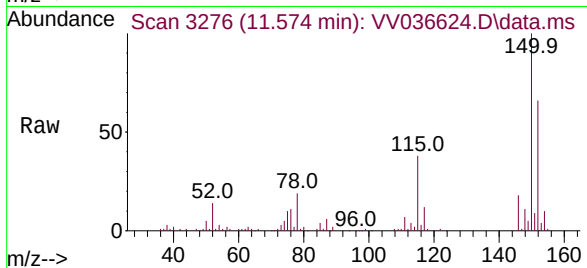
Tgt Ion:146 Resp: 17923

Ion Ratio Lower Upper

146 100

111 40.0 31.3 46.9

148 61.1 51.0 76.4



#68

1,2-Dibromo-3-chloropropane

Concen: 2.233 ug/L

RT: 12.583 min Scan# 3590

Delta R.T. 0.222 min

Lab File: VV036624.D

Acq: 22 Jul 2024 11:00

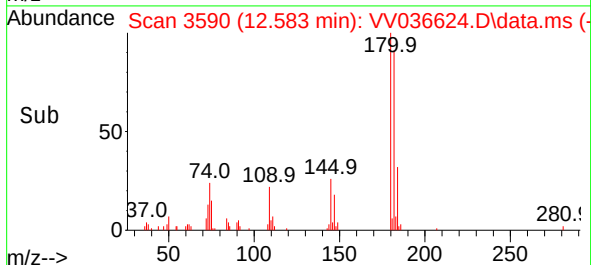
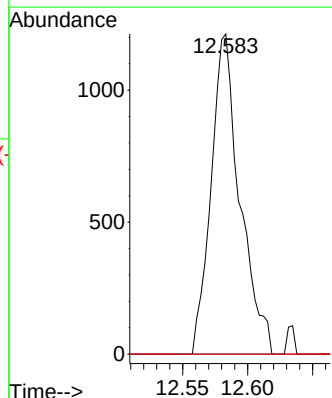
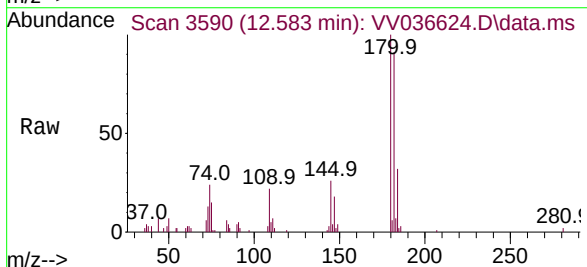
Tgt Ion: 75 Resp: 1869

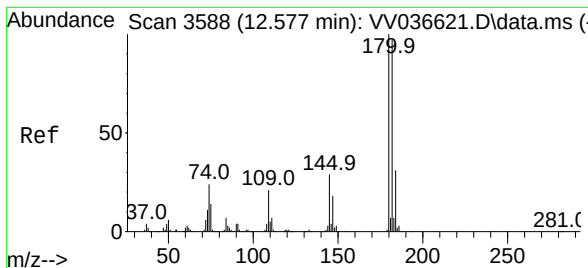
Ion Ratio Lower Upper

75 100

155 0.0 79.5 119.3#

157 0.0 100.2 150.4#





#69

1,3,5-Trichlorobenzene

Concen: 1.311 ug/L

RT: 12.583 min Scan# 3590

Delta R.T. 0.006 min

Lab File: VV036624.D

Acq: 22 Jul 2024 11:00

Instrument :

MSVOA_V

ClientSampleId :

Tgt Ion:180 Resp: 14265

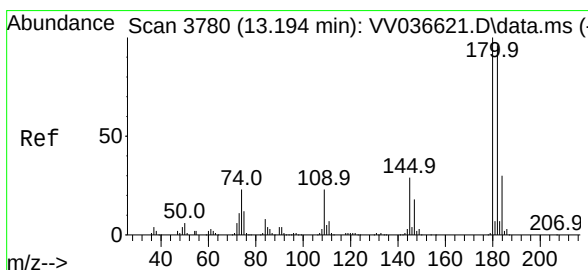
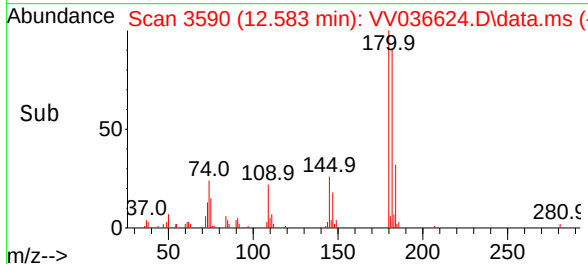
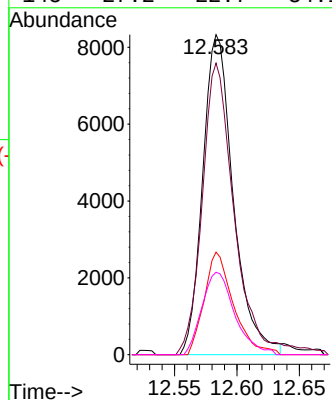
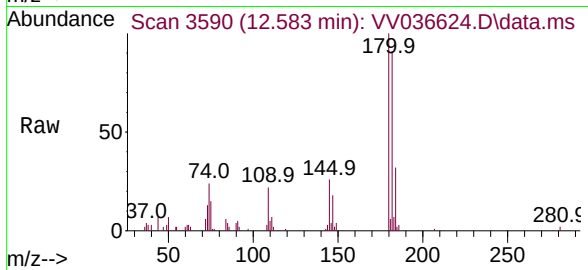
Ion Ratio Lower Upper

180 100

182 92.5 77.0 115.4

184 30.6 24.6 36.8

145 27.2 22.7 34.1



#70

1,2,4-trichlorobenzene

Concen: 2.597 ug/L

RT: 13.201 min Scan# 3782

Delta R.T. 0.006 min

Lab File: VV036624.D

Acq: 22 Jul 2024 11:00

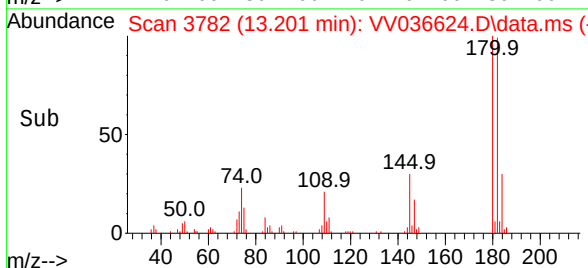
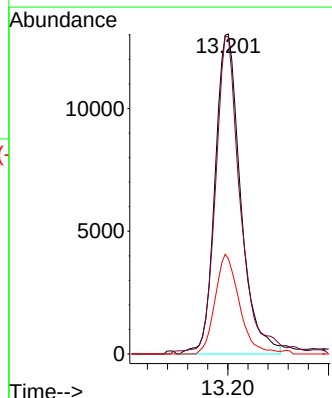
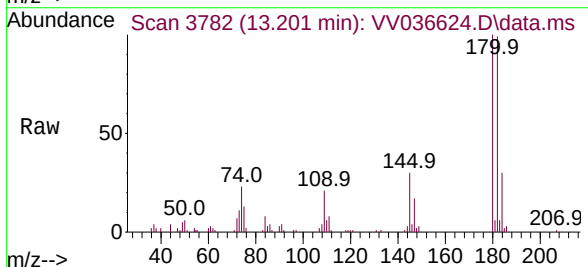
Tgt Ion:180 Resp: 22947

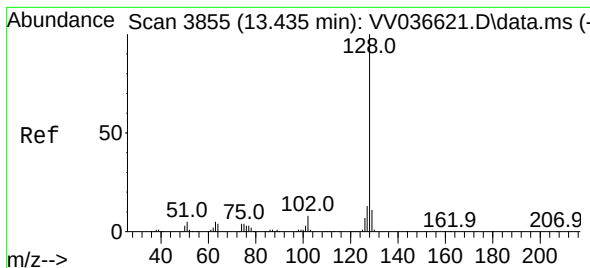
Ion Ratio Lower Upper

180 100

182 97.0 76.2 114.2

145 29.6 23.0 34.6





#71

Naphthalene

Concen: 6.416 ug/L

RT: 13.438 min Scan# 3855

Delta R.T. 0.003 min

Lab File: VV036624.D

Acq: 22 Jul 2024 11:00

Instrument :

MSVOA_V

ClientSampleId :

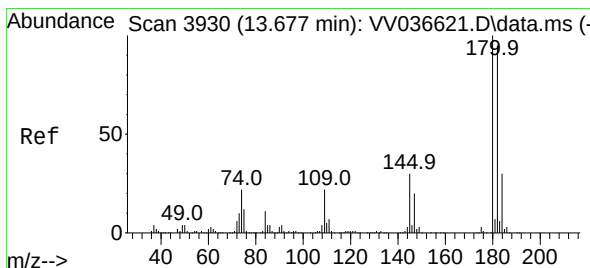
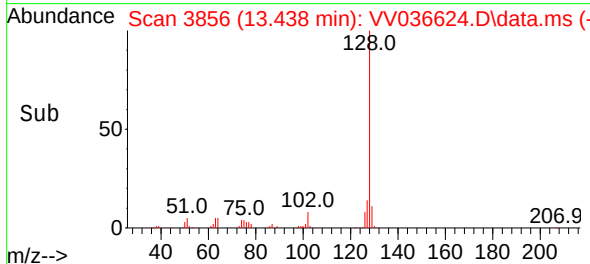
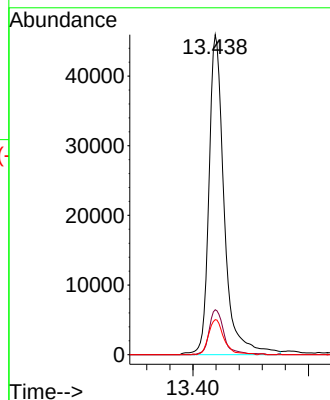
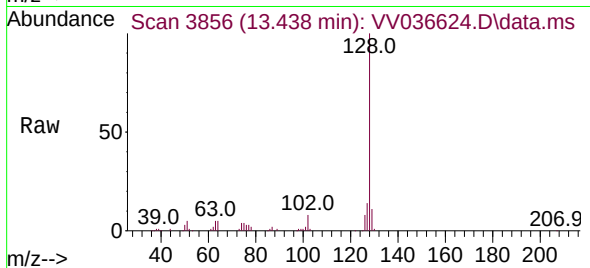
Tgt Ion:128 Resp: 84334

Ion Ratio Lower Upper

128 100

127 13.5 10.4 15.6

129 11.1 8.7 13.1



#72

1,2,3-Trichlorobenzene

Concen: 3.202 ug/L

RT: 13.676 min Scan# 3930

Delta R.T. -0.000 min

Lab File: VV036624.D

Acq: 22 Jul 2024 11:00

Tgt Ion:180 Resp: 25530

Ion Ratio Lower Upper

180 100

182 94.1 75.6 113.4

145 31.7 24.6 37.0

