

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW121421\
 Data File : VW023967.D
 Acq On : 14 Dec 2021 14:55
 Operator : SY/MD
 Sample : M5005-09
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EW217

Quant Time: Dec 15 01:39:26 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR121021WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Sat Dec 11 04:33:17 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	95268	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	103539	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	66067	5.000	ug/L	# 0.00

System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	19259	3.760	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	75.200%
7) Chloroethane-d5	1.568	69	19468	4.556	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.200%
11) 1,1-Dichloroethene-d2	2.108	63	27705	2.771	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	55.400%#
20) 2-Butanone-d5	3.899	46	59588	59.553	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	119.100%
24) Chloroform-d	4.349	84	55487	4.783	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.600%
26) 1,2-Dichloroethane-d4	5.037	65	28696	5.313	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.200%
32) Benzene-d6	5.050	84	88544	4.318	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.400%
36) 1,2-Dichloropropane-d6	6.072	67	29501	4.768	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.400%
41) Toluene-d8	7.317	98	68182	3.693	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.800%
43) trans-1,3-Dichloroprop...	7.628	79	10605	4.132	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.600%
46) 2-Hexanone-d5	8.088	63	57159	49.745	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	99.500%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	25110	4.892	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.800%
66) 1,2-Dichlorobenzene-d4	11.625	152	41176	4.666	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.400%

Target Compounds				Qvalue		
5) Vinyl chloride	1.310	62	351	0.046	ug/L #	1
12) 1,1-Dichloroethene	2.117	96	393	0.061	ug/L #	1
13) Acetone	2.188	43	21863	27.311	ug/L	81
15) Methyl Acetate	2.371	43	870	0.448	ug/L #	60
19) 1,1-Dichloroethane	3.191	63	6469	0.509	ug/L	97
21) 2-Butanone	4.085	43	24115	21.084	ug/L #	55
22) cis-1,2-Dichloroethene	3.915	96	16043	2.142	ug/L	96
34) Trichloroethene	5.918	95	6207	0.751	ug/L	92
35) Methylcyclohexane	6.069	83	8038	0.661	ug/L #	18
37) 1,2-Dichloropropane	6.185	63	654	0.094	ug/L #	84
40) 4-Methyl-2-pentanone	7.239	43	2620	0.783	ug/L #	88
47) Tetrachloroethene	7.976	164	4563	0.627	ug/L	92
48) 2-Hexanone	8.092	43	7415	3.058	ug/L #	69
49) Dibromochloromethane	7.976	129	4176	0.596	ug/L #	11
51) Chlorobenzene	8.882	112	133122	6.042	ug/L	98
61) 1,2,3-Trichloropropane	11.178	75	231214	51.373	ug/L #	47
62) 1,3,5-Trimethylbenzene	11.509	105	6369	0.198	ug/L #	17
63) 1,2,4-Trimethylbenzene	11.509	105	6369	0.199	ug/L #	7
64) 1,3-Dichlorobenzene	11.181	146	847526	42.721	ug/L	99

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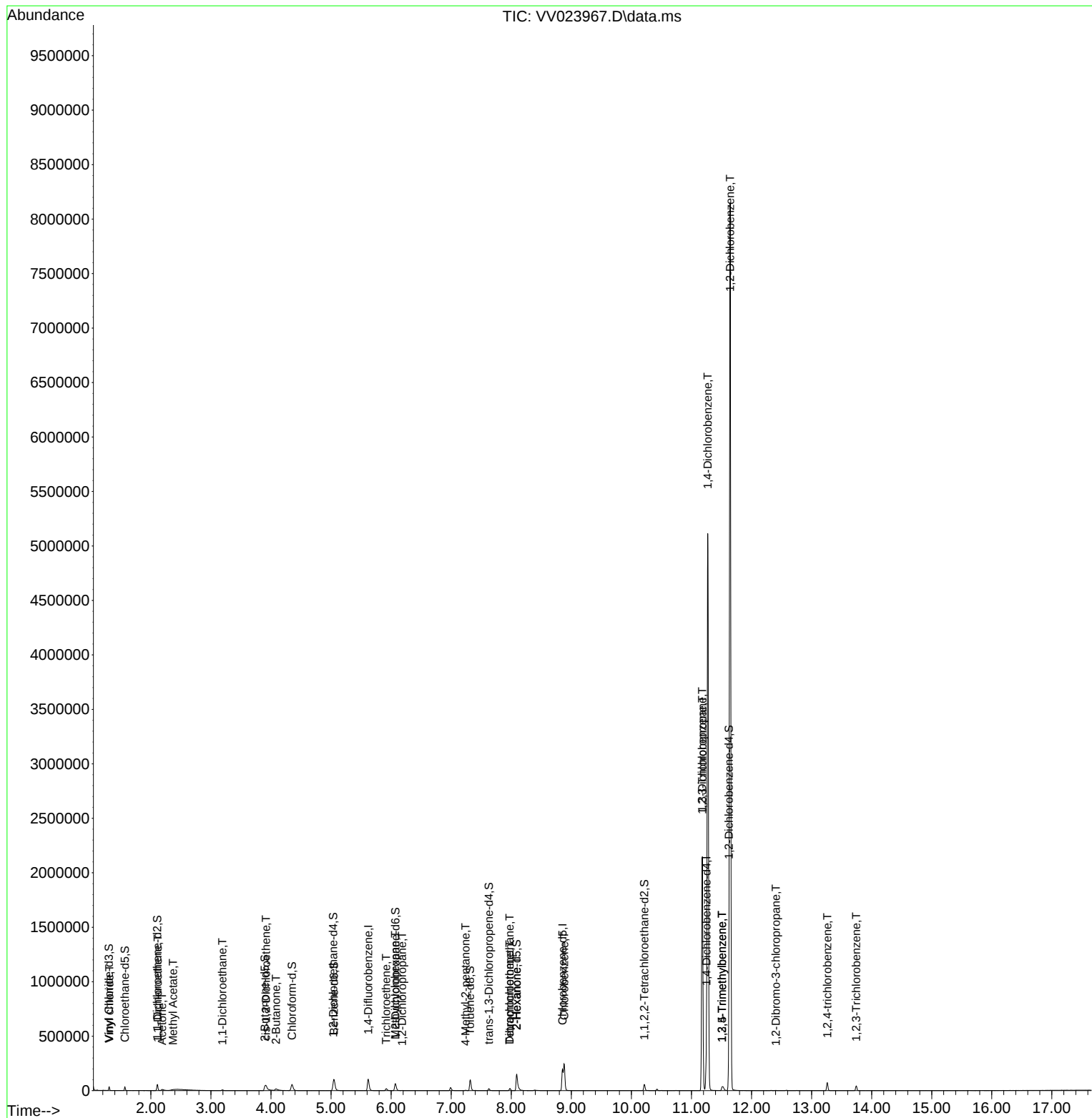
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
65) 1,4-Dichlorobenzene	11.271	146	1978905	99.316	ug/L	99
67) 1,2-Dichlorobenzene	11.644	146	3137869	172.644	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.406	75	393	0.400	ug/L #	1
70) 1,2,4-trichlorobenzene	13.262	180	23074	1.800	ug/L	97
72) 1,2,3-Trichlorobenzene	13.744	180	13171	1.164	ug/L	97

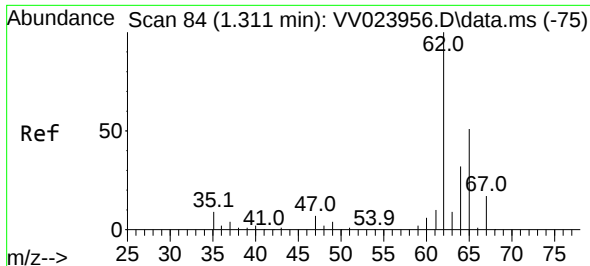
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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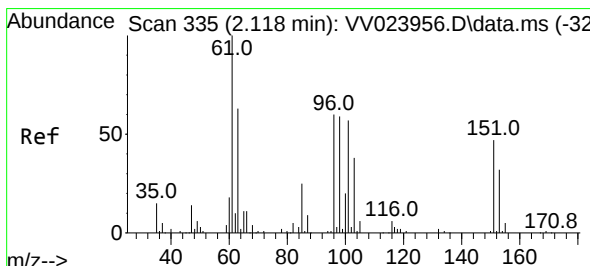
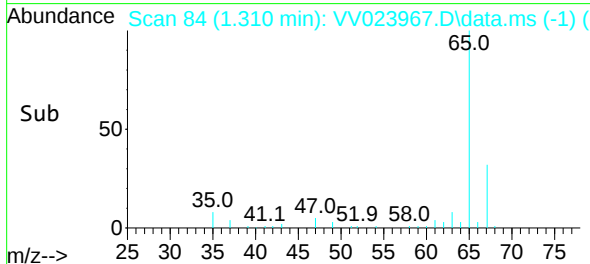
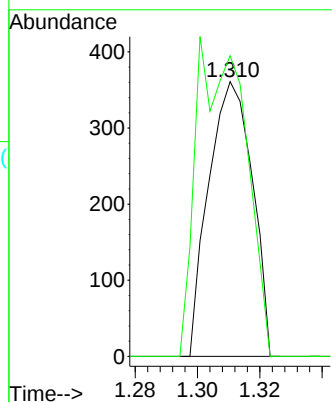
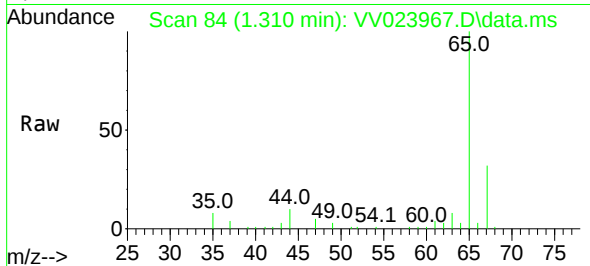




#5
 Vinyl chloride
 Concen: 0.046 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. 0.000 min
 Lab File: VV023967.D
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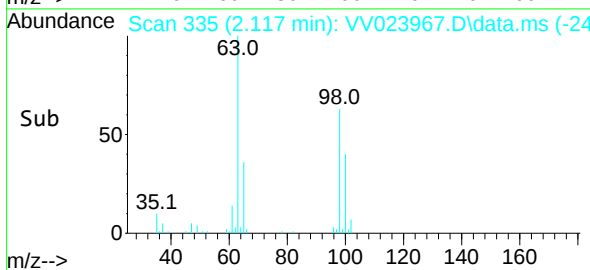
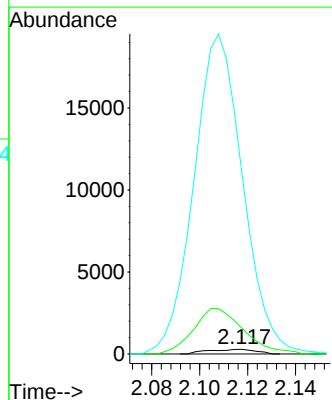
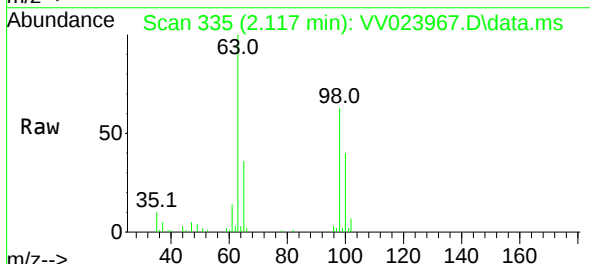
Instrument :
 MSVOA_V
 ClientSampleId :
 EW217

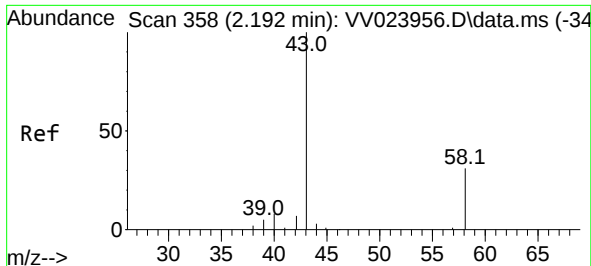
Tgt Ion: 62 Resp: 351
 Ion Ratio Lower Upper
 62 100
 64 109.4 22.4 41.6#



#12
 1,1-Dichloroethene
 Concen: 0.061 ug/L
 RT: 2.117 min Scan# 335
 Delta R.T. 0.000 min
 Lab File: VV023967.D
 Acq: 14 Dec 2021 14:55

Tgt Ion: 96 Resp: 393
 Ion Ratio Lower Upper
 96 100
 61 554.0 116.1 215.5#
 63 3881.5 79.4 147.4#





#13

Acetone

Concen: 27.311 ug/L

RT: 2.188 min Scan# 31

Delta R.T. -0.003 min

Lab File: VV023967.D

Acq: 14 Dec 2021 14:55

Instrument :

MSVOA_V

ClientSampleId :

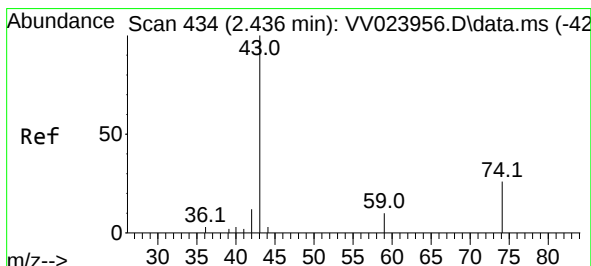
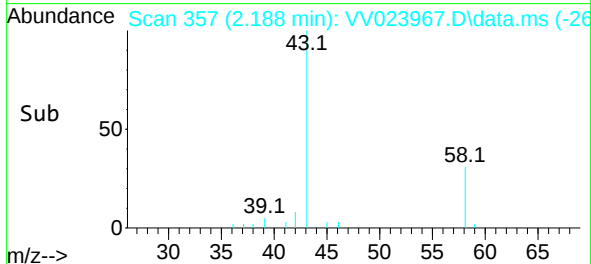
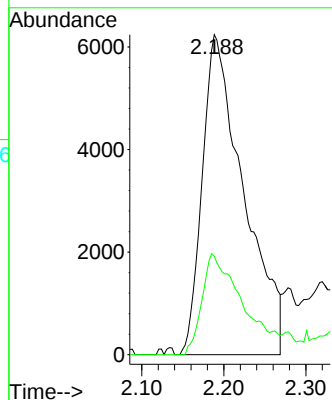
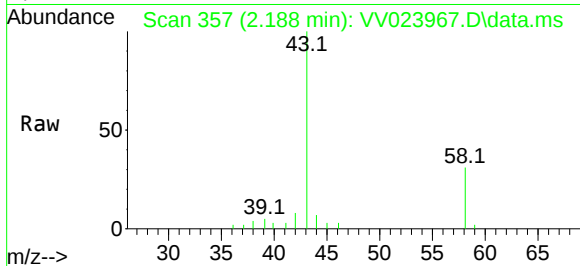
EW217

Tgt Ion: 43 Resp: 21863

Ion Ratio Lower Upper

43 100

58 29.5 0.0 41.4



#15

Methyl Acetate

Concen: 0.448 ug/L

RT: 2.371 min Scan# 414

Delta R.T. -0.064 min

Lab File: VV023967.D

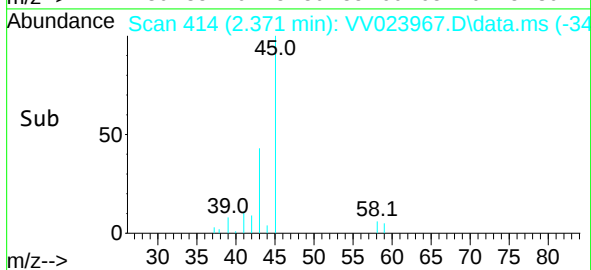
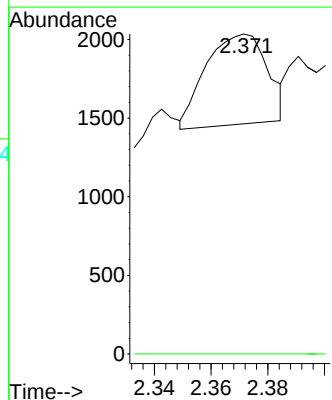
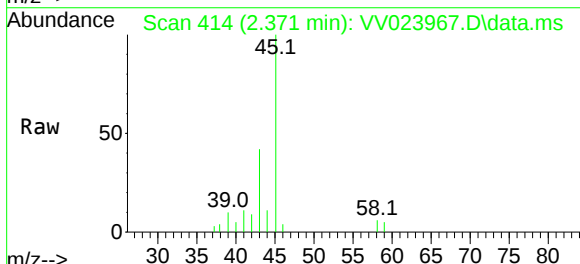
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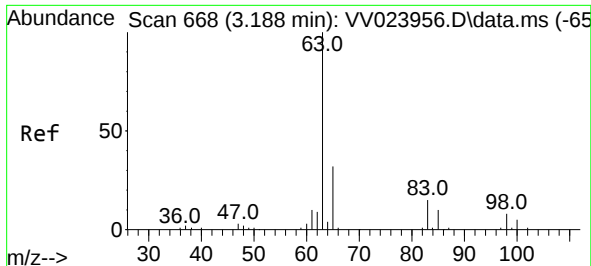
Tgt Ion: 43 Resp: 870

Ion Ratio Lower Upper

43 100

74 5.1 20.2 30.2#





#19

1,1-Dichloroethane

Concen: 0.509 ug/L

RT: 3.191 min Scan# 6

Delta R.T. 0.003 min

Lab File: VV023967.D

Acq: 14 Dec 2021 14:55

Instrument :

MSVOA_V

ClientSampleId :

EW217

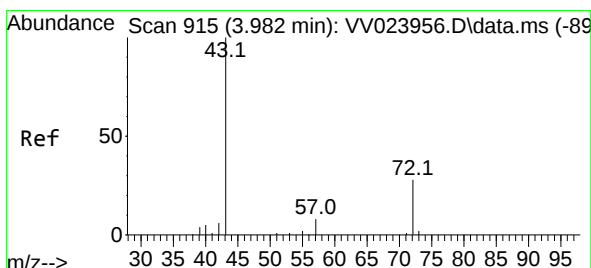
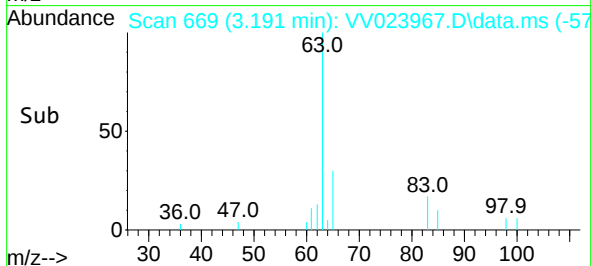
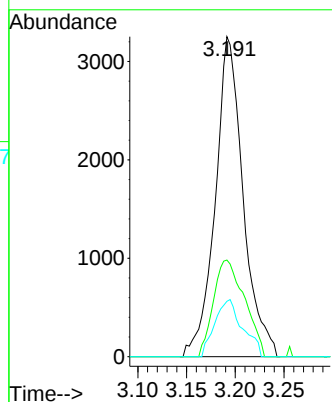
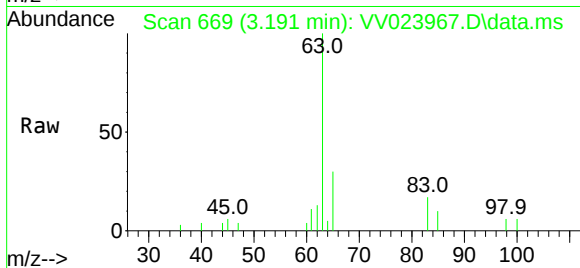
Tgt Ion: 63 Resp: 6469

Ion Ratio Lower Upper

63 100

65 30.2 22.3 41.3

83 17.3 10.7 19.9



#21

2-Butanone

Concen: 21.084 ug/L

RT: 4.085 min Scan# 947

Delta R.T. 0.097 min

Lab File: VV023967.D

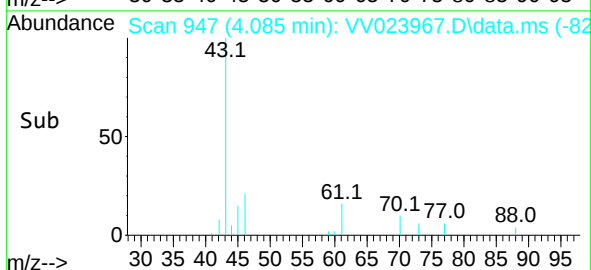
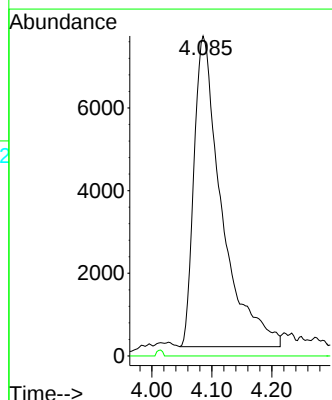
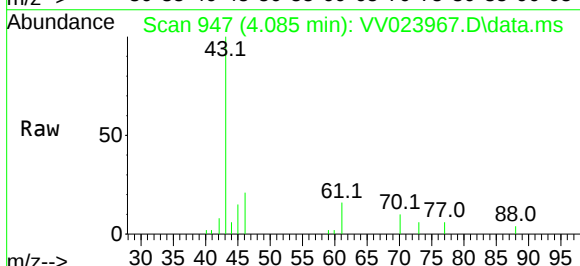
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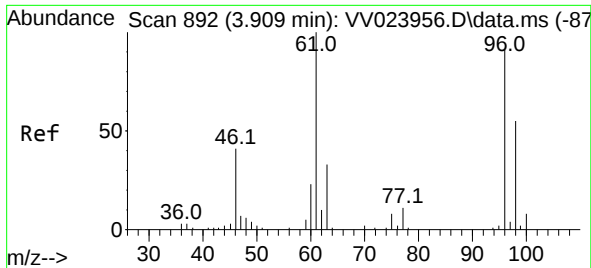
Tgt Ion: 43 Resp: 24115

Ion Ratio Lower Upper

43 100

72 0.4 11.1 33.1#

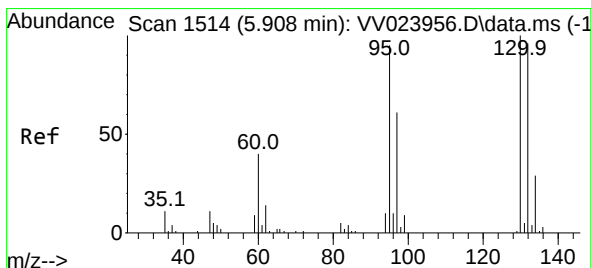
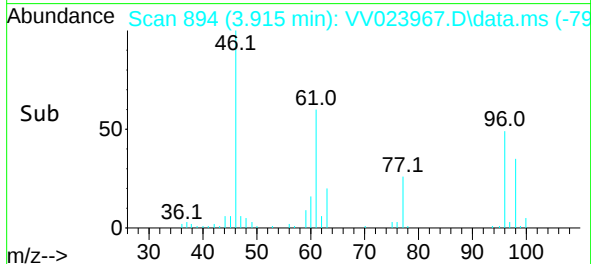
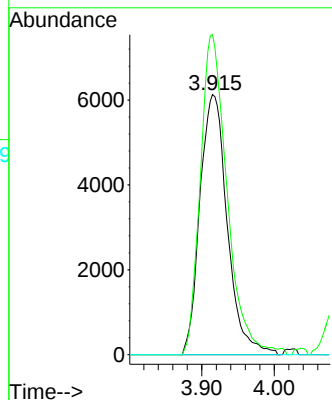
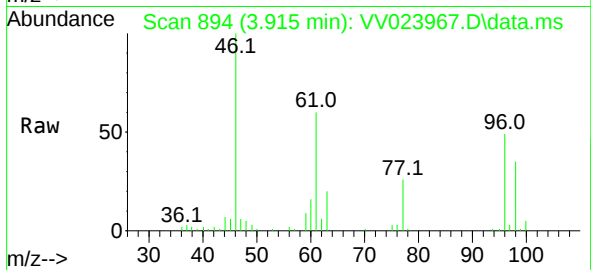




#22
 cis-1,2-Dichloroethene
 Concen: 2.142 ug/L
 RT: 3.915 min Scan# 894
 Delta R.T. 0.007 min
 Lab File: VV023967.D
 Acq: 14 Dec 2021 14:55

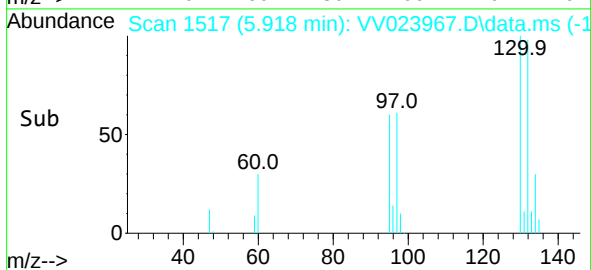
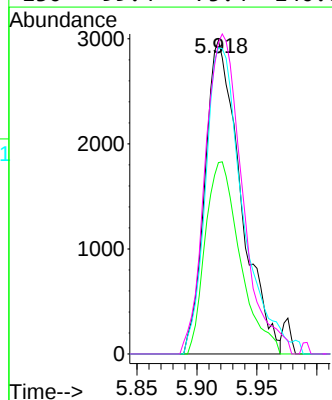
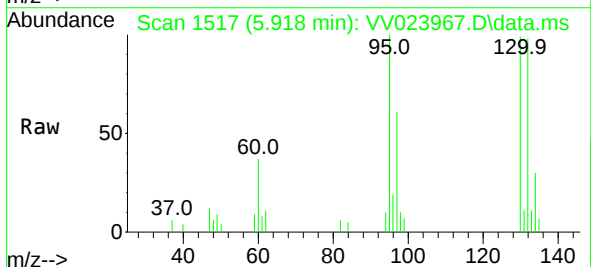
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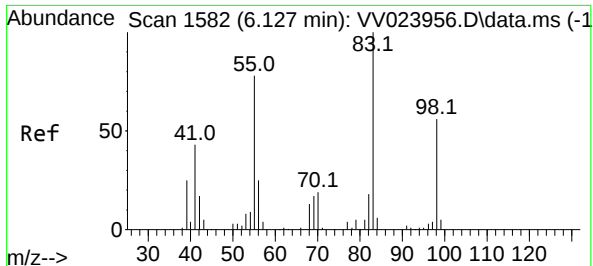
Tgt Ion: 96 Resp: 16043
 Ion Ratio Lower Upper
 96 100
 61 123.0 83.4 154.8
 68 0.0 0.0 0.0



#34
 Trichloroethene
 Concen: 0.751 ug/L
 RT: 5.918 min Scan# 1517
 Delta R.T. 0.007 min
 Lab File: VV023967.D
 Acq: 14 Dec 2021 14:55

Tgt Ion: 95 Resp: 6207
 Ion Ratio Lower Upper
 95 100
 97 61.1 45.2 84.0
 132 97.6 76.1 141.3
 130 99.4 75.4 140.0





#35

Methylcyclohexane

Concen: 0.661 ug/L

RT: 6.069 min Scan# 1

Delta R.T. -0.061 min

Lab File: VV023967.D

Acq: 14 Dec 2021 14:55

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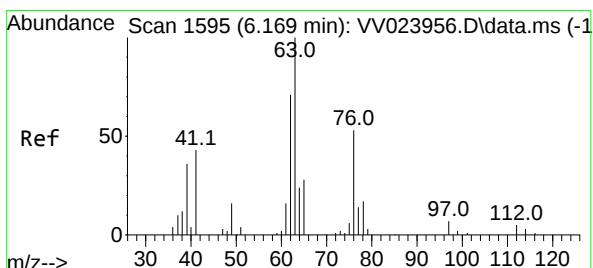
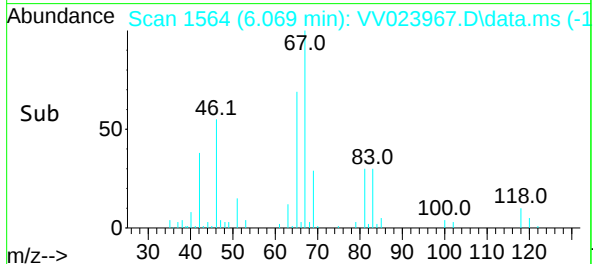
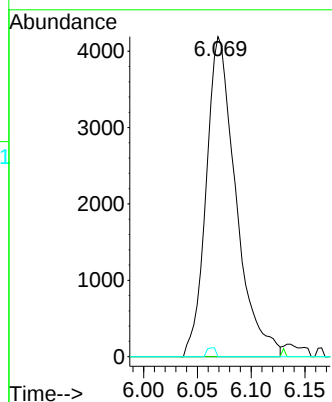
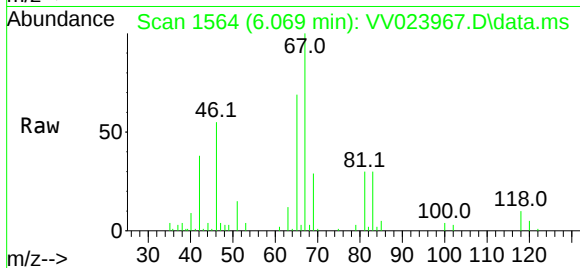
Tgt Ion: 83 Resp: 8038

Ion Ratio Lower Upper

83 100

55 0.2 60.2 90.2#

98 0.8 41.0 61.4#



#37

1,2-Dichloropropane

Concen: 0.094 ug/L

RT: 6.185 min Scan# 1600

Delta R.T. 0.016 min

Lab File: VV023967.D

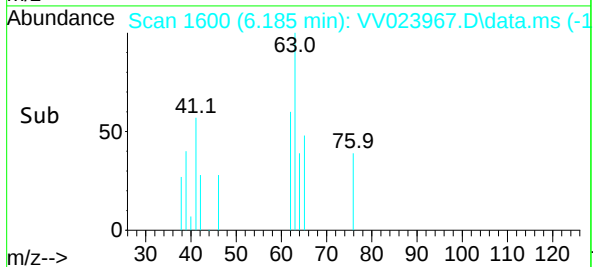
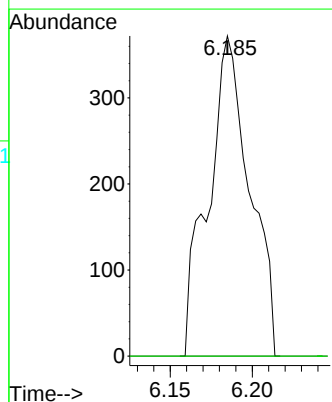
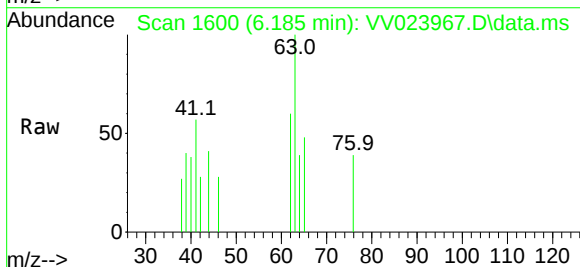
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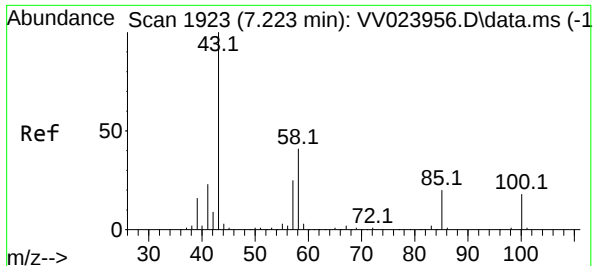
Tgt Ion: 63 Resp: 654

Ion Ratio Lower Upper

63 100

112 0.0 4.3 6.5#





#40

4-Methyl-2-pentanone

Concen: 0.783 ug/L

RT: 7.239 min Scan# 1923

Delta R.T. 0.013 min

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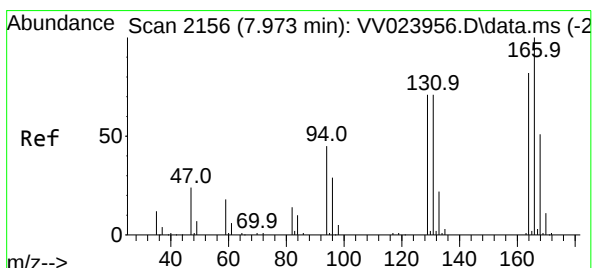
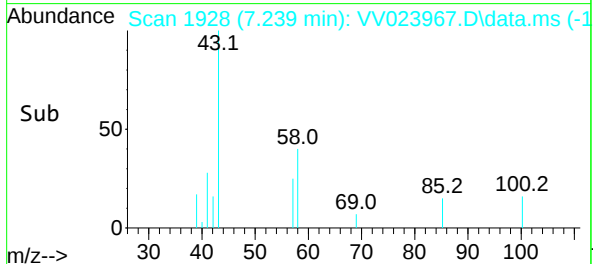
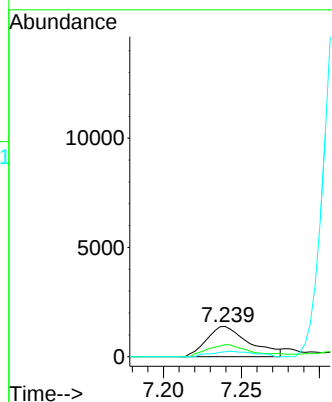
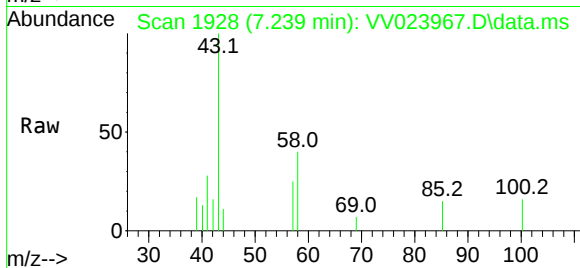
Tgt Ion: 43 Resp: 2620

Ion Ratio Lower Upper

43 100

58 41.4 32.3 48.5

100 0.0 13.0 19.6#



#47

Tetrachloroethene

Concen: 0.627 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. 0.000 min

Lab File: VV023967.D

Acq: 14 Dec 2021 14:55

Tgt Ion: 164 Resp: 4563

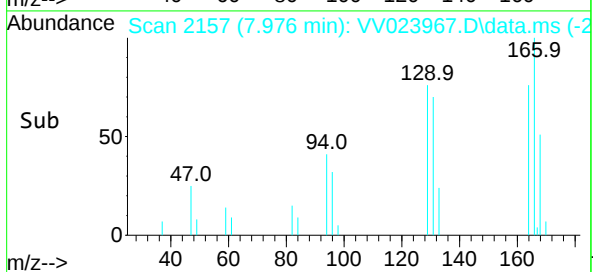
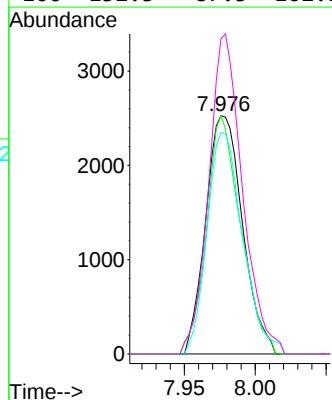
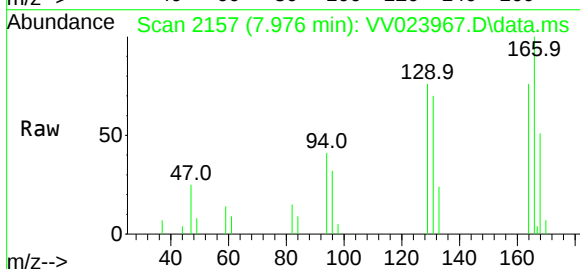
Ion Ratio Lower Upper

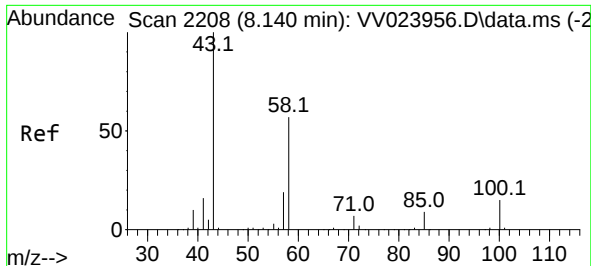
164 100

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131 92.9 61.0 113.4

166 132.3 87.3 162.1

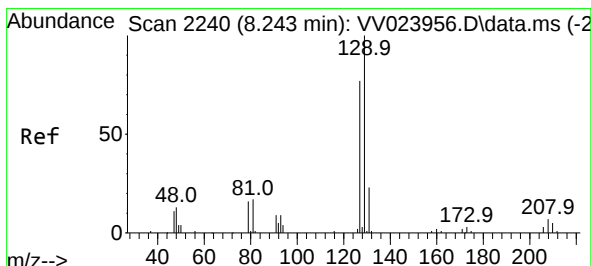
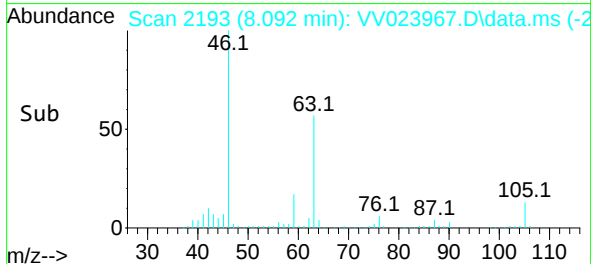
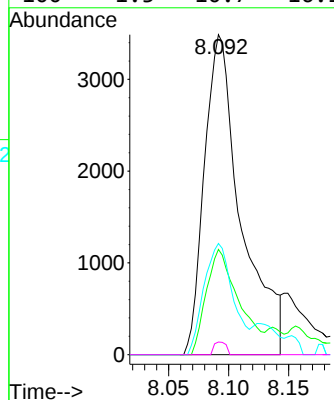
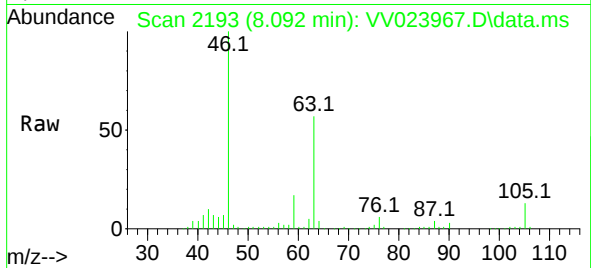




#48
2-Hexanone
Concen: 3.058 ug/L
RT: 8.092 min Scan# 2157
Delta R.T. -0.048 min
Lab File: VV023967.D
Acq: 14 Dec 2021 14:55

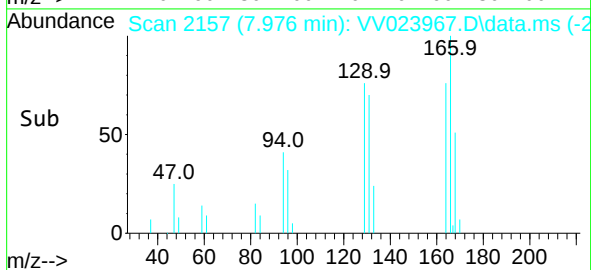
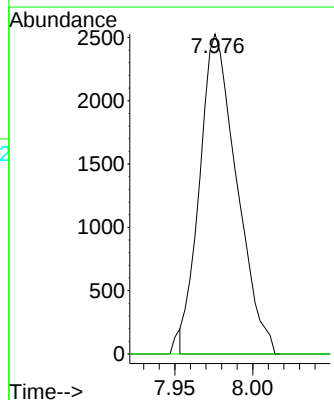
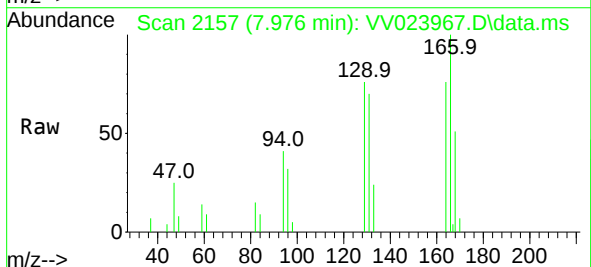
Instrument :
MSVOA_V
ClientSampleId :
EW217

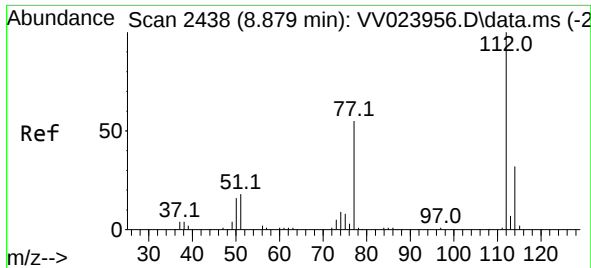
Tgt Ion: 43	Resp: 7415
Ion Ratio	Lower Upper
43	100
58	29.7 44.5 66.7#
57	27.9 15.1 22.7#
100	1.3 10.7 16.1#



#49
Dibromochloromethane
Concen: 0.596 ug/L
RT: 7.976 min Scan# 2157
Delta R.T. -0.270 min
Lab File: VV023967.D
Acq: 14 Dec 2021 14:55

Tgt Ion: 129	Resp: 4176
Ion Ratio	Lower Upper
129	100
127	0.0 53.5 99.3#

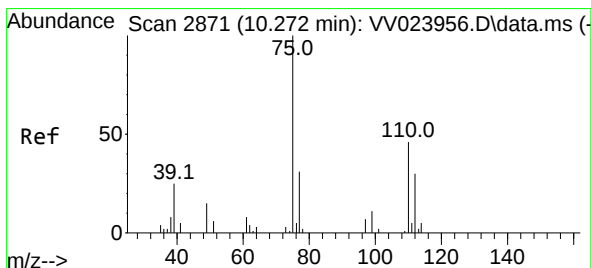
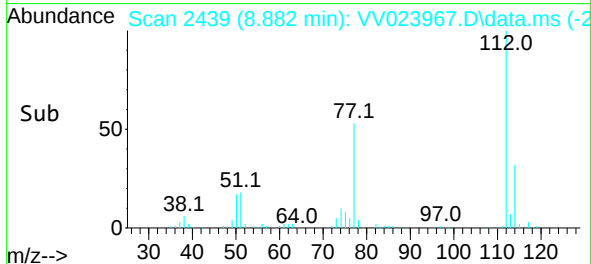
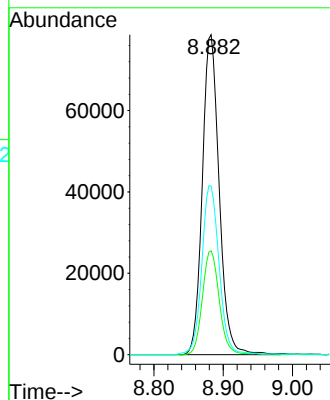
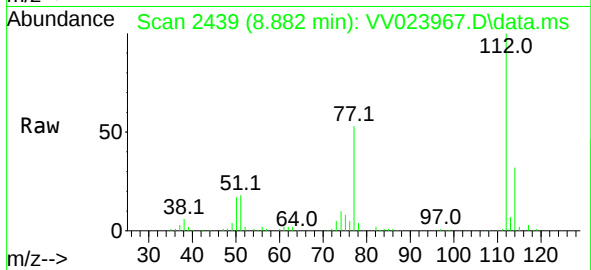




#51
Chlorobenzene
Concen: 6.042 ug/L
RT: 8.882 min Scan# 2438
Delta R.T. 0.003 min
Lab File: VV023967.D
Acq: 14 Dec 2021 14:55

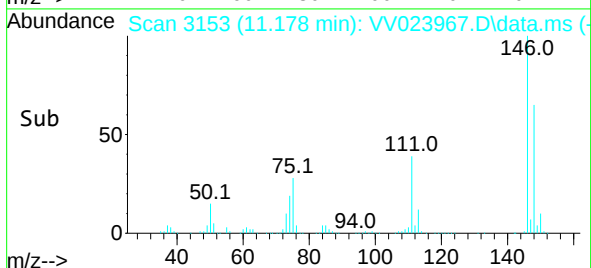
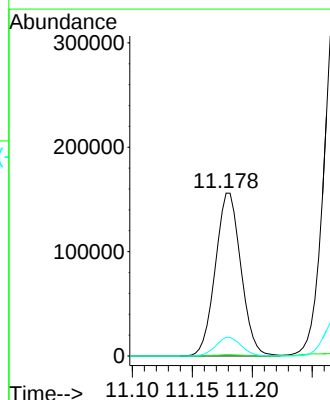
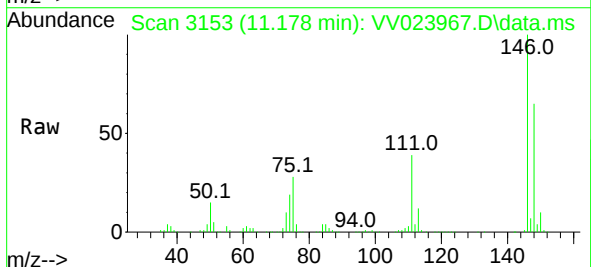
Instrument :
MSVOA_V
ClientSampleId :
EW217

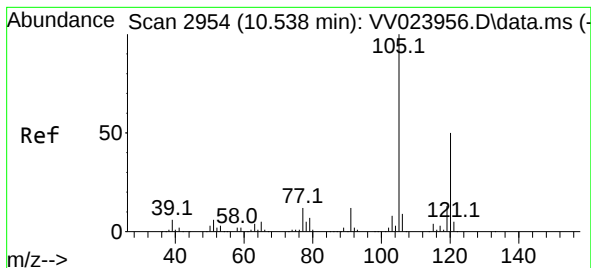
Tgt Ion:112 Resp: 133122
Ion Ratio Lower Upper
112 100
114 32.5 23.3 43.3
77 52.7 43.3 64.9



#61
1,2,3-Trichloropropane
Concen: 51.373 ug/L
RT: 11.178 min Scan# 3153
Delta R.T. 0.907 min
Lab File: VV023967.D
Acq: 14 Dec 2021 14:55

Tgt Ion: 75 Resp: 231214
Ion Ratio Lower Upper
75 100
77 0.0 26.4 39.6#
110 11.4 34.2 51.2#





#62

1,3,5-Trimethylbenzene

Concen: 0.198 ug/L

RT: 11.509 min Scan# 31

Delta R.T. 0.971 min

Lab File: VV023967.D

Acq: 14 Dec 2021 14:55

Instrument :

MSVOA_V

ClientSampleId :

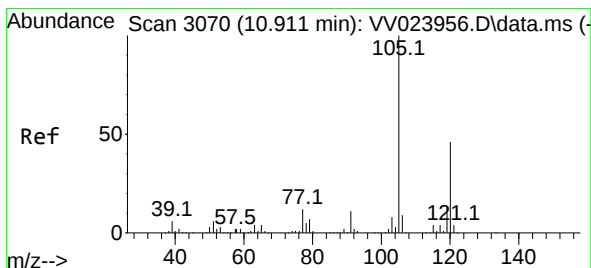
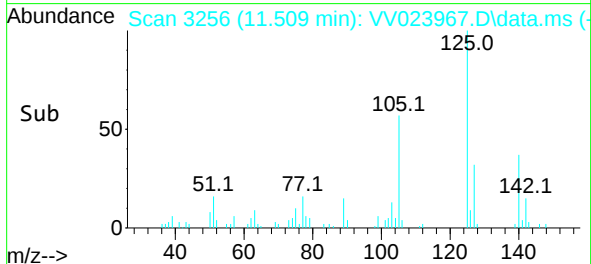
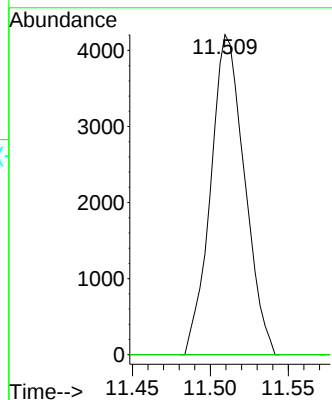
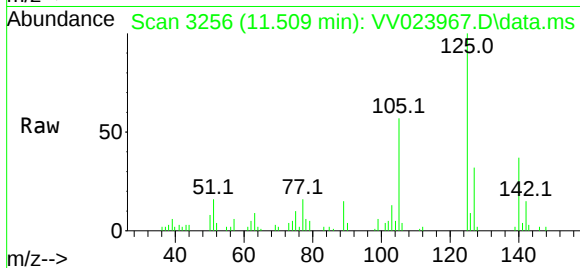
EW217

Tgt Ion:105 Resp: 6369

Ion Ratio Lower Upper

105 100

120 107.1 40.1 60.1#



#63

1,2,4-Trimethylbenzene

Concen: 0.199 ug/L

RT: 11.509 min Scan# 3256

Delta R.T. 0.595 min

Lab File: VV023967.D

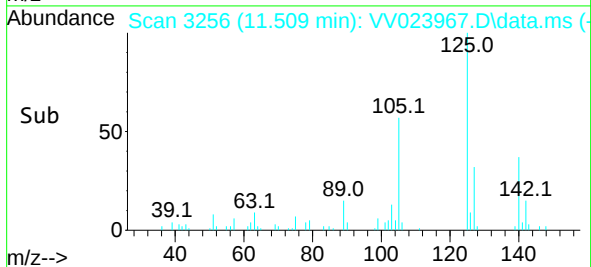
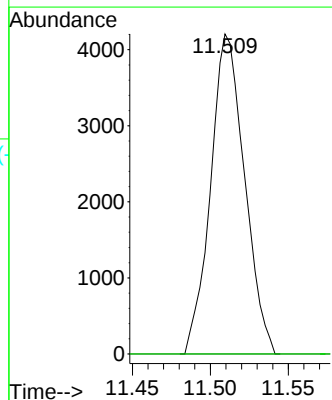
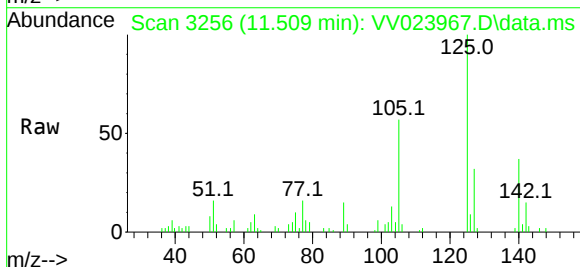
Acq: 14 Dec 2021 14:55

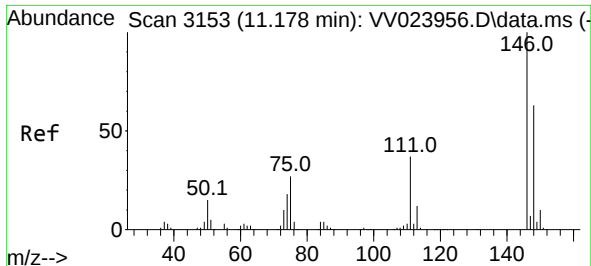
Tgt Ion:105 Resp: 6369

Ion Ratio Lower Upper

105 100

120 107.1 36.7 55.1#

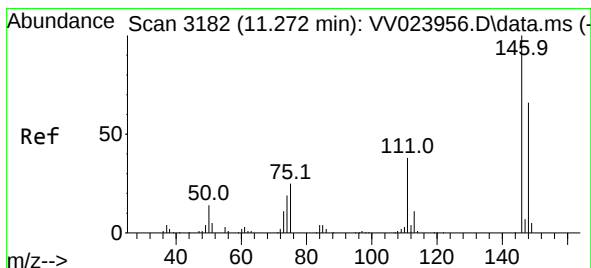
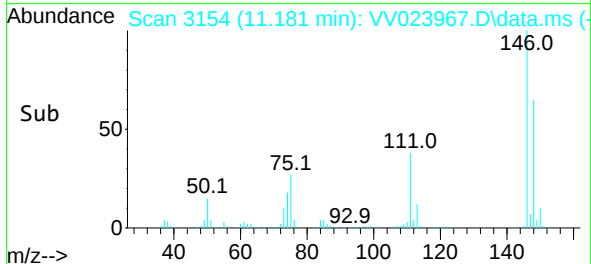
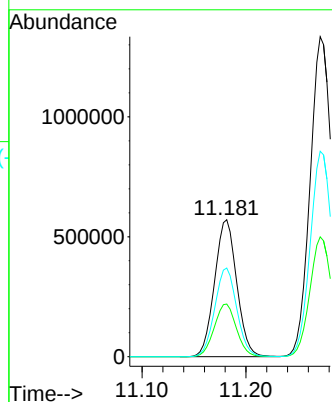
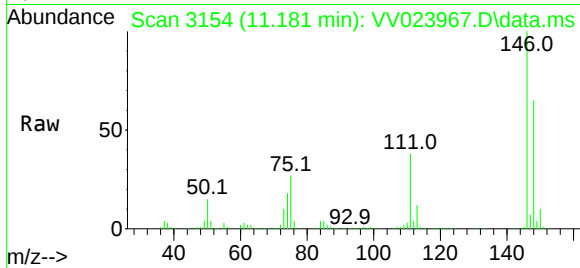




#64
1,3-Dichlorobenzene
Concen: 42.721 ug/L
RT: 11.181 min Scan# 3153
Delta R.T. 0.003 min
Lab File: VV023967.D
Acq: 14 Dec 2021 14:55

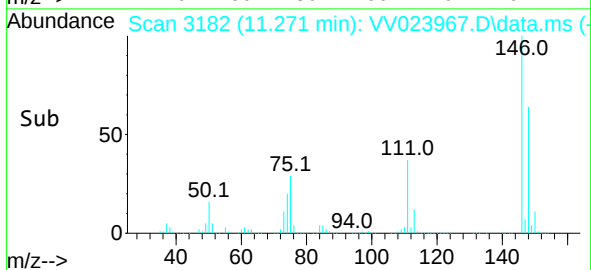
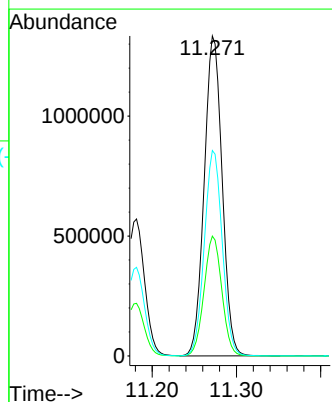
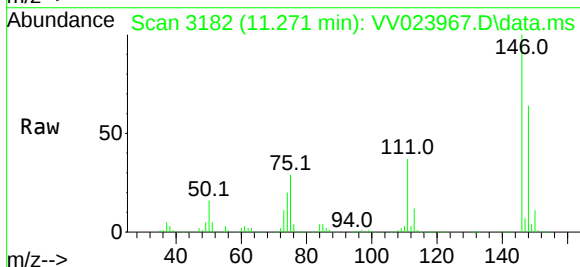
Instrument :
MSVOA_V
ClientSampleId :
EW217

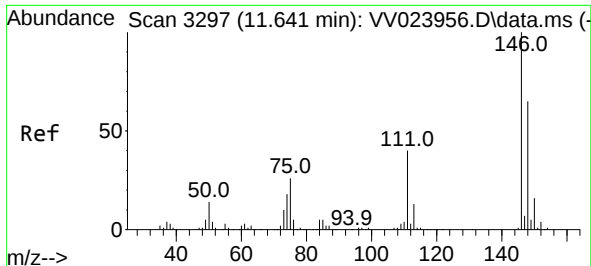
Tgt Ion:146 Resp: 847526
Ion Ratio Lower Upper
146 100
111 38.5 26.3 48.9
148 64.7 44.4 82.5



#65
1,4-Dichlorobenzene
Concen: 99.316 ug/L
RT: 11.271 min Scan# 3182
Delta R.T. 0.000 min
Lab File: VV023967.D
Acq: 14 Dec 2021 14:55

Tgt Ion:146 Resp: 1978905
Ion Ratio Lower Upper
146 100
111 37.4 25.6 47.6
148 64.2 44.8 83.2





#67

1,2-Dichlorobenzene

Concen: 172.644 ug/L

RT: 11.644 min Scan# 31

Delta R.T. 0.003 min

Lab File: VV023967.D

Acq: 14 Dec 2021 14:55

Instrument :

MSVOA_V

ClientSampleId :

EW217

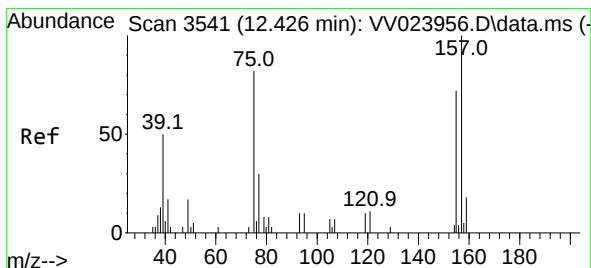
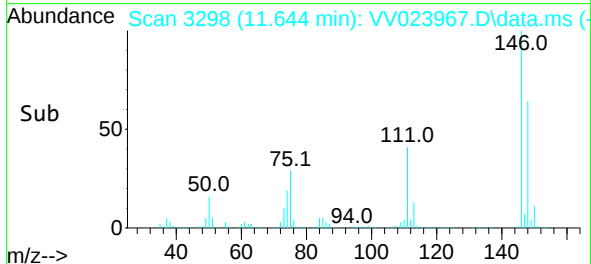
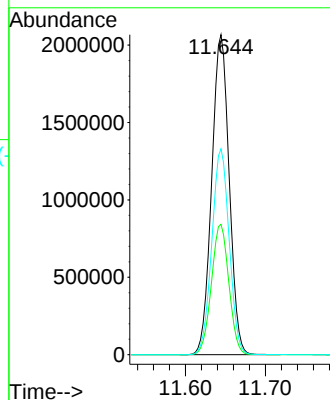
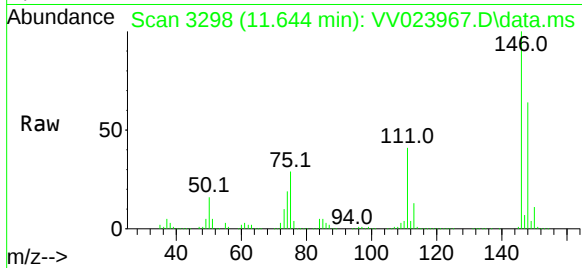
Tgt Ion:146 Resp: 3137869

Ion Ratio Lower Upper

146 100

111 40.8 31.9 47.9

148 64.4 50.5 75.7



#68

1,2-Dibromo-3-chloropropane

Concen: 0.400 ug/L

RT: 12.406 min Scan# 3535

Delta R.T. -0.026 min

Lab File: VV023967.D

Acq: 14 Dec 2021 14:55

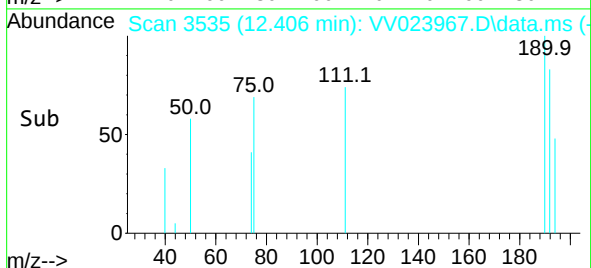
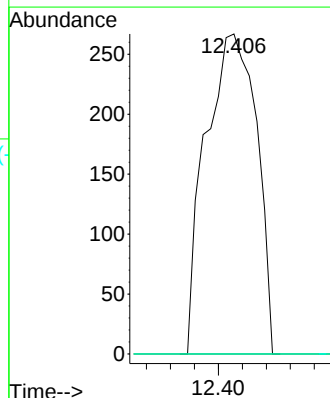
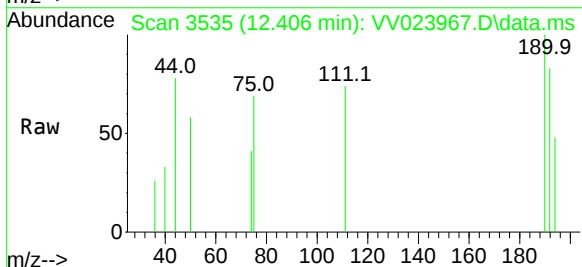
Tgt Ion: 75 Resp: 393

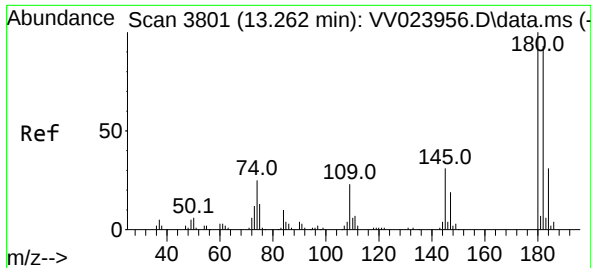
Ion Ratio Lower Upper

75 100

155 0.0 71.7 107.5#

157 0.0 103.3 154.9#

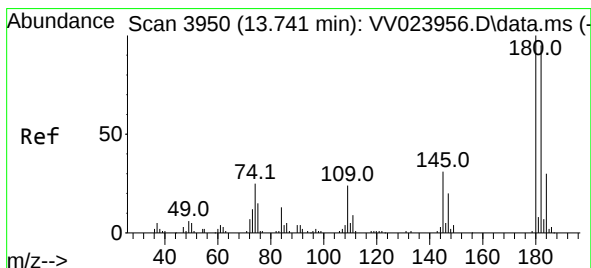
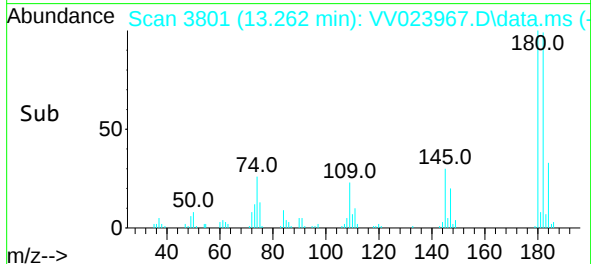
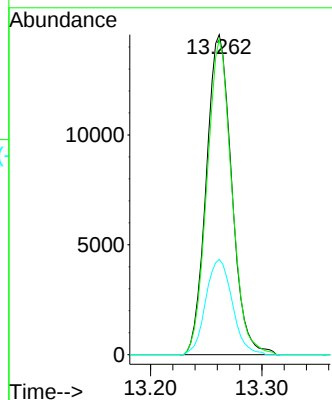
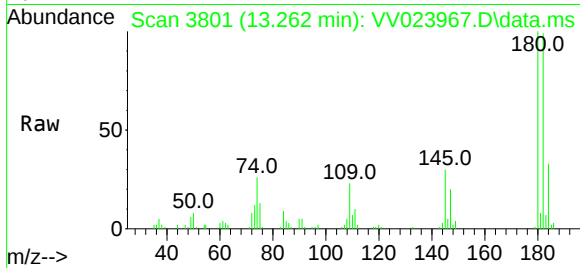




#70
 1,2,4-trichlorobenzene
 Concen: 1.800 ug/L
 RT: 13.262 min Scan# 3801
 Delta R.T. 0.000 min
 Lab File: VV023967.D
 Acq: 14 Dec 2021 14:55

Instrument :
 MSVOA_V
 ClientSampleId :
 EW217

Tgt Ion:180 Resp: 23074
 Ion Ratio Lower Upper
 180 100
 182 96.1 74.4 111.6
 145 31.0 23.3 34.9



#72
 1,2,3-Trichlorobenzene
 Concen: 1.164 ug/L
 RT: 13.744 min Scan# 3951
 Delta R.T. 0.000 min
 Lab File: VV023967.D
 Acq: 14 Dec 2021 14:55

Tgt Ion:180 Resp: 13171
 Ion Ratio Lower Upper
 180 100
 182 98.4 76.8 115.2
 145 34.8 25.8 38.6

