

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW111021\
 Data File : VW023364.D
 Acq On : 11 Nov 2021 04:31
 Operator : SY/MD
 Sample : M4542-07
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 11 05:20:14 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Nov 11 03:34:54 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	131161	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	125417	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	70764	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	25841	3.145	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	62.800%
7) Chloroethane-d5	1.568	69	24307	3.630	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	72.600%
11) 1,1-Dichloroethene-d2	2.111	63	40397	2.626	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	52.600%#
20) 2-Butanone-d5	3.886	46	94419	66.699	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	133.400%#
24) Chloroform-d	4.352	84	72879	4.162	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.200%
26) 1,2-Dichloroethane-d4	5.037	65	36154	4.591	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.800%
32) Benzene-d6	5.053	84	129034	4.010	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.200%
36) 1,2-Dichloropropane-d6	6.072	67	45134	4.765	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.200%
41) Toluene-d8	7.317	98	107028	3.549	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	71.000%
43) trans-1,3-Dichloroprop...	7.629	79	14640	4.076	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.600%
46) 2-Hexanone-d5	8.088	63	69819	52.831	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	105.660%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	34488	5.063	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	101.200%
66) 1,2-Dichlorobenzene-d4	11.625	152	52330	4.441	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	5358	0.493	ug/L	92
5) Vinyl chloride	1.311	62	47755	4.397	ug/L	98
8) Chloroethane	1.587	64	11269	1.798	ug/L	93
12) 1,1-Dichloroethene	2.121	96	7027	0.898	ug/L #	22
13) Acetone	2.175	43	5460	6.312	ug/L	94
18) trans-1,2-Dichloroethene	2.767	96	729	0.076	ug/L	74
19) 1,1-Dichloroethane	3.192	63	301705	18.585	ug/L	97
22) cis-1,2-Dichloroethene	3.912	96	218872	23.653	ug/L #	91
25) Chloroform	4.381	83	18927	1.094	ug/L	95
29) 1,1,1-Trichloroethane	4.609	97	510304	33.501	ug/L	99
31) Carbon tetrachloride	4.609	117	67590	4.941	ug/L	98
34) Trichloroethene	5.912	95	675953	72.512	ug/L	99
35) Methylcyclohexane	6.127	83	5054	0.343	ug/L	98
37) 1,2-Dichloropropane	6.072	63	5007	0.612	ug/L #	94
42) Toluene	7.394	91	22217	0.593	ug/L	99
47) Tetrachloroethene	7.979	164	9902	1.226	ug/L	96
49) Dibromochloromethane	7.976	129	9030	1.212	ug/L #	10
51) Chlorobenzene	8.883	112	205092	8.230	ug/L	99
52) Ethylbenzene	9.021	91	3345	0.085	ug/L	98

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

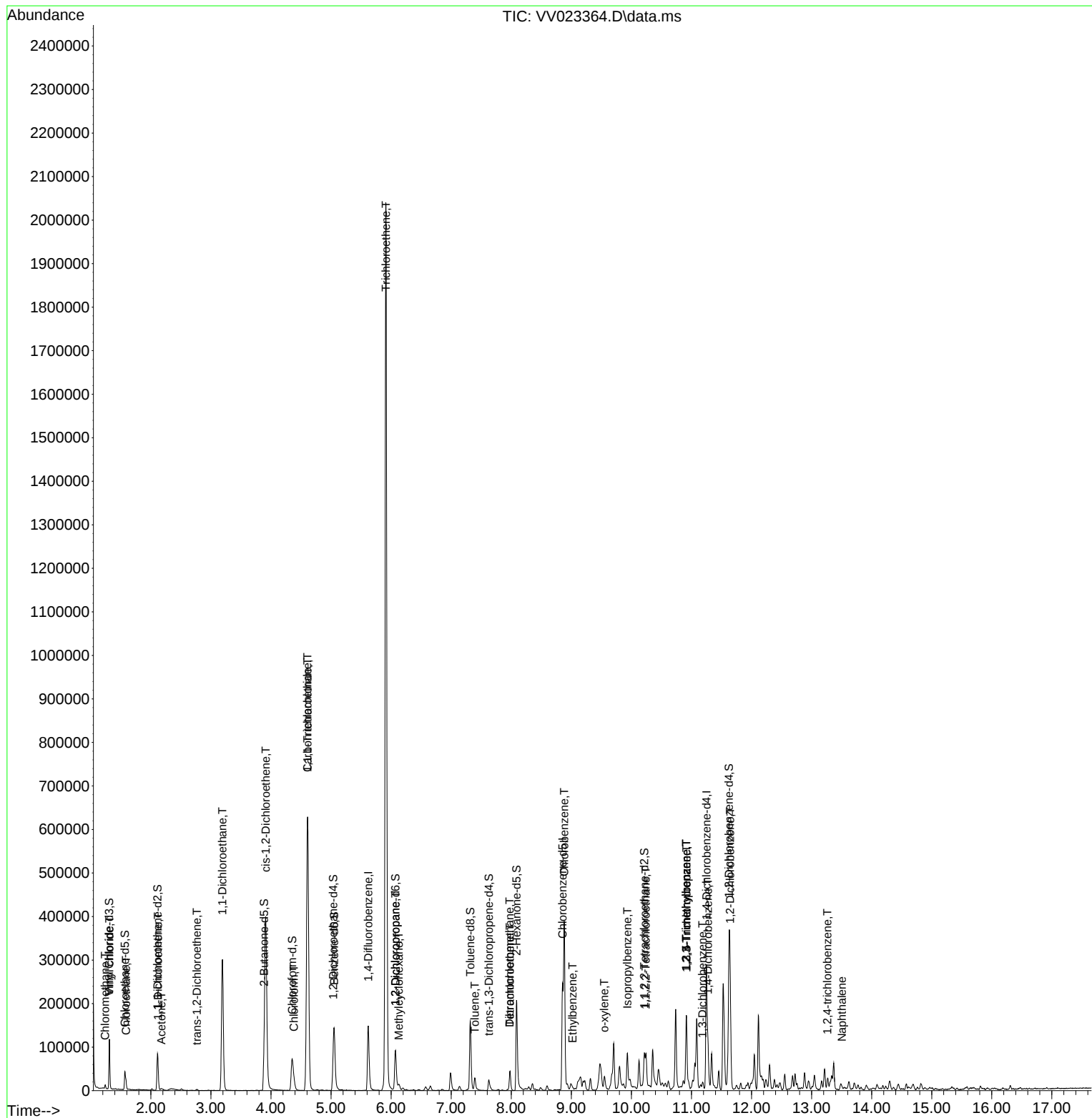
54) o-xylene	9.548	106	4154	0.285	ug/L	95
57) 1,1,2,2-Tetrachloroethane	10.239	83	4739	0.736	ug/L #	40
60) Isopropylbenzene	9.934	105	52311	1.288	ug/L	99
61) 1,2,3-Trichloropropane	10.918	75	886	0.188	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.915	105	87579	2.601	ug/L	96
63) 1,2,4-Trimethylbenzene	10.915	105	87579	2.613	ug/L	100
64) 1,3-Dichlorobenzene	11.185	146	5225	0.252	ug/L	98
65) 1,4-Dichlorobenzene	11.275	146	41273	1.948	ug/L	99
67) 1,2-Dichlorobenzene	11.645	146	77029	4.149	ug/L	99
70) 1,2,4-trichlorobenzene	13.265	180	2047	0.157	ug/L #	56
71) Naphthalene	13.506	128	5873	0.306	ug/L #	83

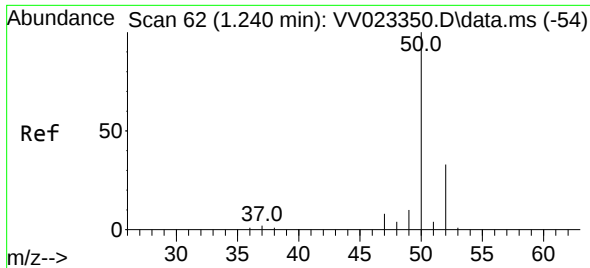
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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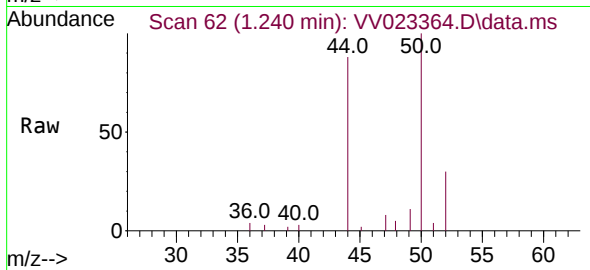
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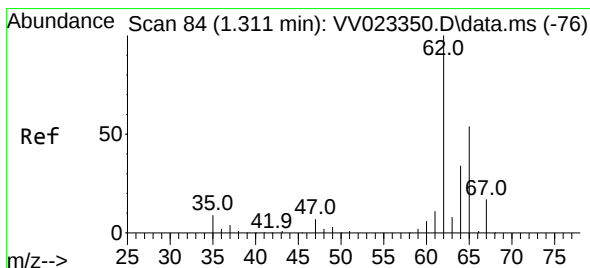
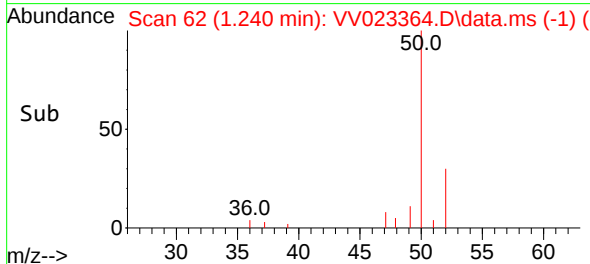
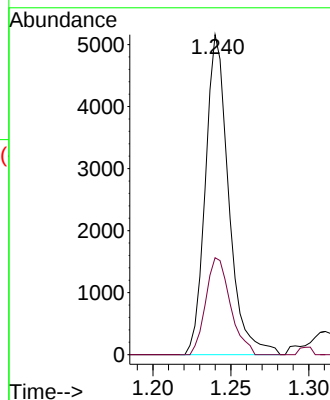


#3
Chloromethane
Concen: 0.493 ug/L
RT: 1.240 min Scan# 61
Delta R.T. -0.000 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

Instrument :
MSVOA_V
ClientSampleId :

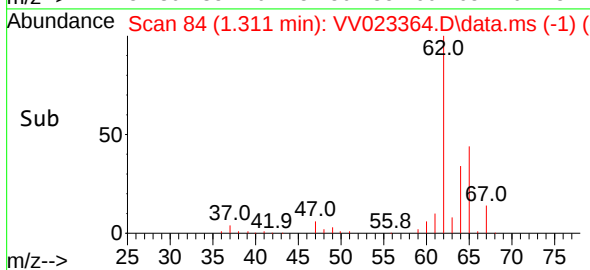
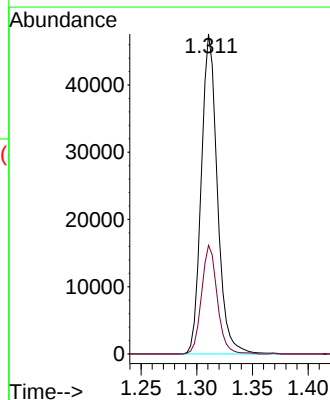
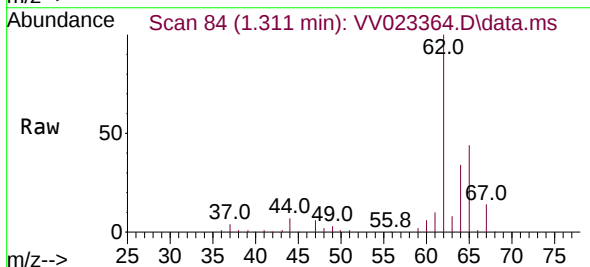


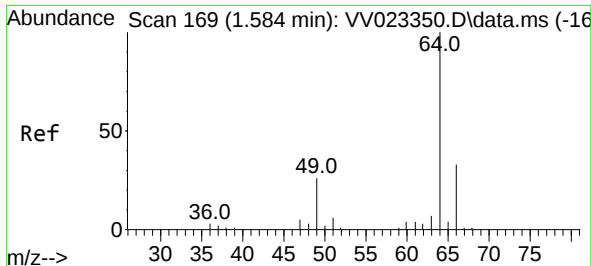
Tgt Ion: 50 Resp: 5358
Ion Ratio Lower Upper
50 100
52 30.3 24.3 45.1



#5
Vinyl chloride
Concen: 4.397 ug/L
RT: 1.311 min Scan# 84
Delta R.T. -0.000 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

Tgt Ion: 62 Resp: 47755
Ion Ratio Lower Upper
62 100
64 34.0 23.1 42.9

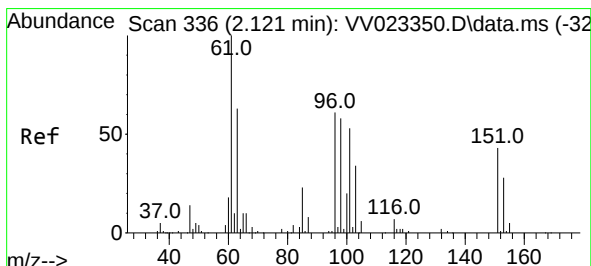
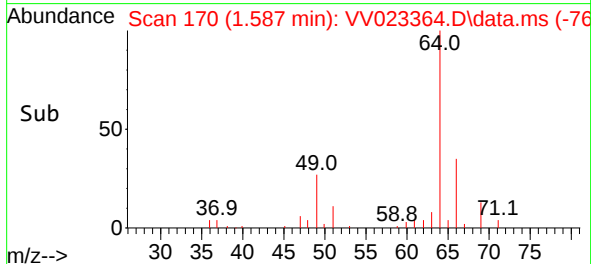
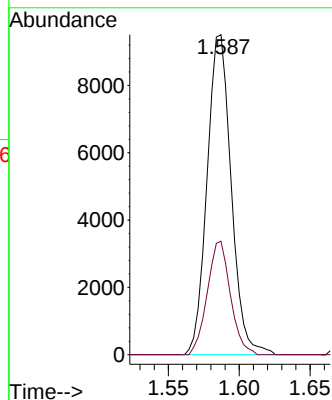
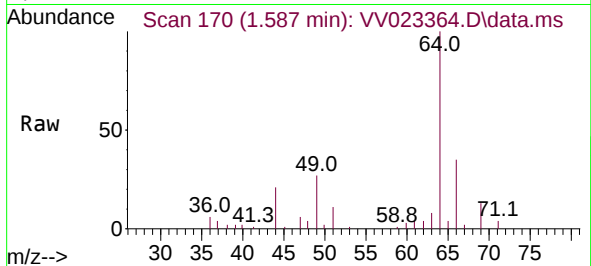




#8
Chloroethane
Concen: 1.798 ug/L
RT: 1.587 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

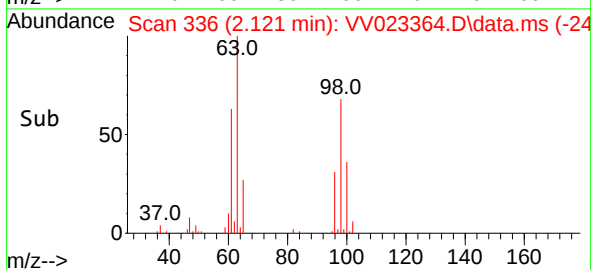
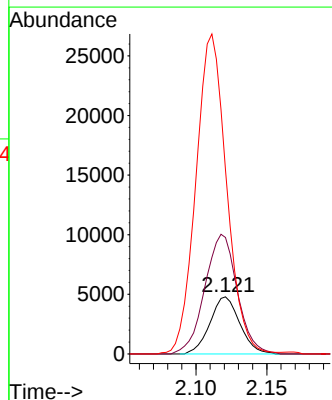
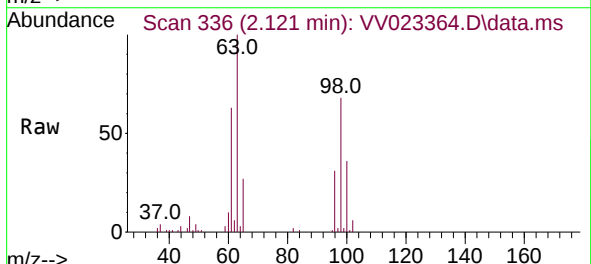
Instrument :
MSVOA_V
ClientSampleId :

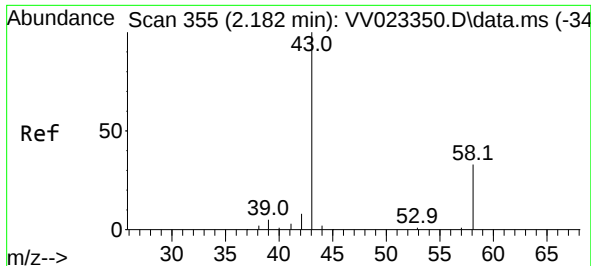
Tgt Ion: 64 Resp: 11269
Ion Ratio Lower Upper
64 100
66 35.5 22.1 41.1



#12
1,1-Dichloroethene
Concen: 0.898 ug/L
RT: 2.121 min Scan# 336
Delta R.T. 0.000 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

Tgt Ion: 96 Resp: 7027
Ion Ratio Lower Upper
96 100
61 204.3 121.5 225.7
63 322.7 99.6 185.0#

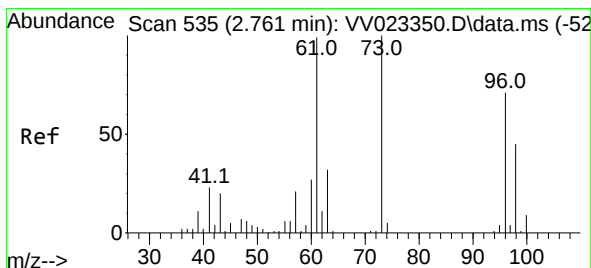
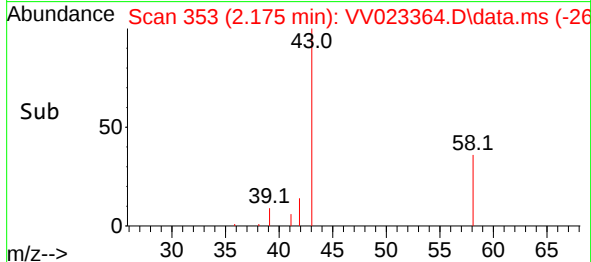
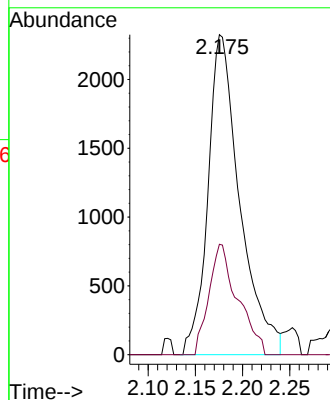
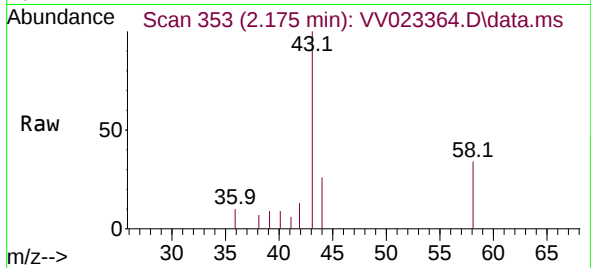




#13
Acetone
Concen: 6.312 ug/L
RT: 2.175 min Scan# 31
Delta R.T. -0.006 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

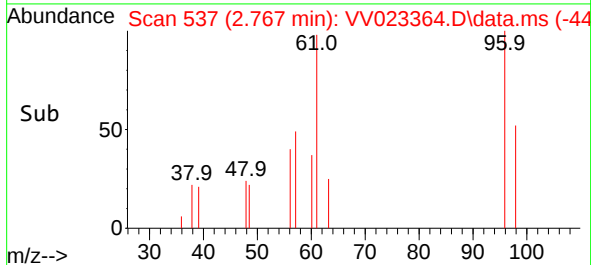
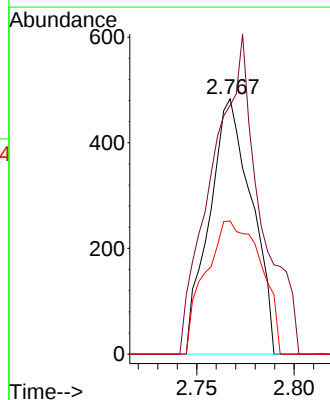
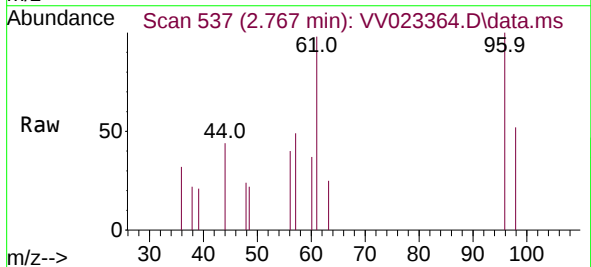
Instrument :
MSVOA_V
ClientSampleId :

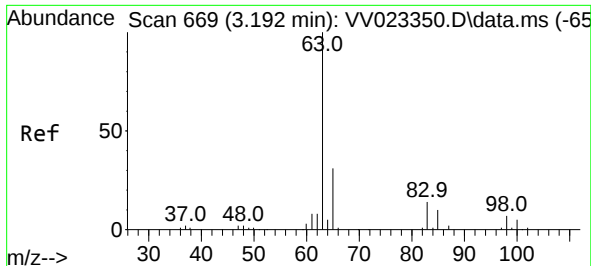
Tgt Ion: 43 Resp: 5460
Ion Ratio Lower Upper
43 100
58 31.1 0.0 55.4



#18
trans-1,2-Dichloroethene
Concen: 0.076 ug/L
RT: 2.767 min Scan# 537
Delta R.T. 0.006 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

Tgt Ion: 96 Resp: 729
Ion Ratio Lower Upper
96 100
61 97.5 93.2 173.2
98 52.2 47.0 87.2





#19

1,1-Dichloroethane

Concen: 18.585 ug/L

RT: 3.192 min Scan# 6

Delta R.T. -0.000 min

Lab File: VV023364.D

Acq: 11 Nov 2021 04:31

Instrument :

MSVOA_V

ClientSampleId :

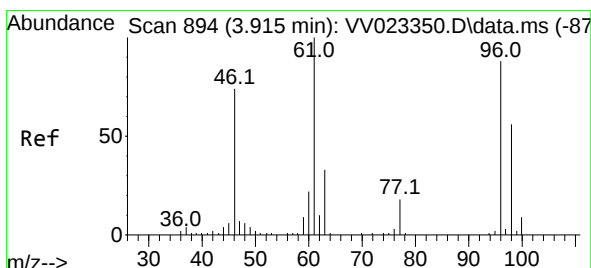
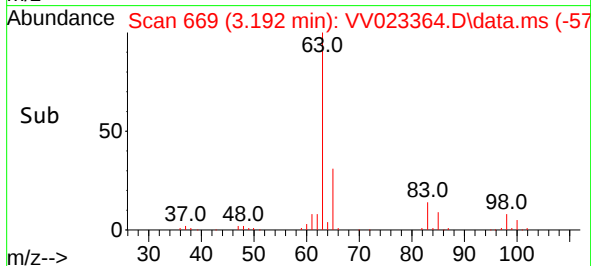
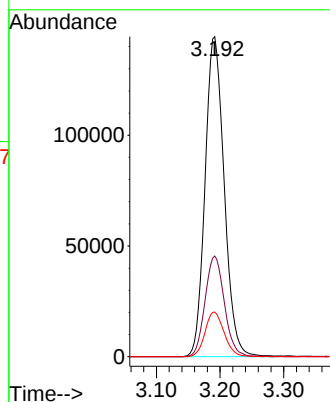
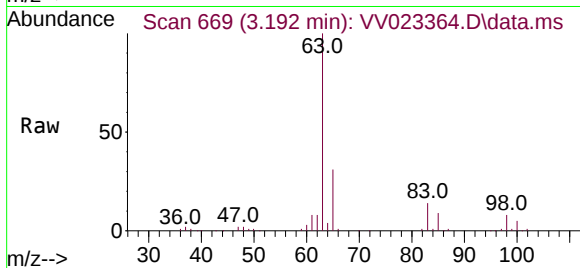
Tgt Ion: 63 Resp: 301705

Ion Ratio Lower Upper

63 100

65 31.5 22.6 42.0

83 14.0 11.1 20.7



#22

cis-1,2-Dichloroethene

Concen: 23.653 ug/L

RT: 3.912 min Scan# 893

Delta R.T. -0.003 min

Lab File: VV023364.D

Acq: 11 Nov 2021 04:31

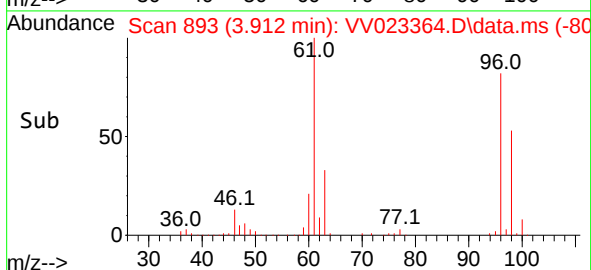
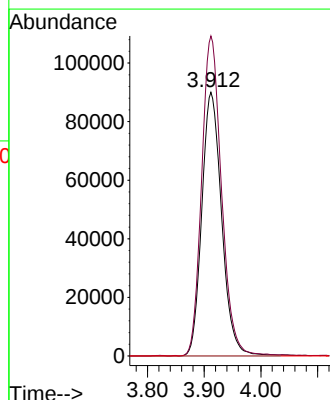
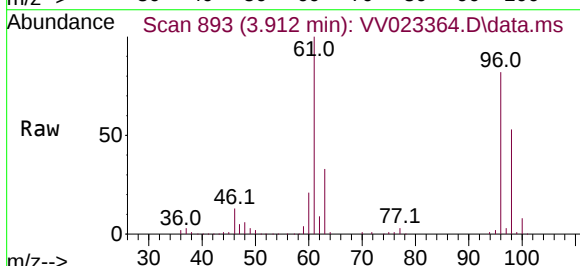
Tgt Ion: 96 Resp: 218872

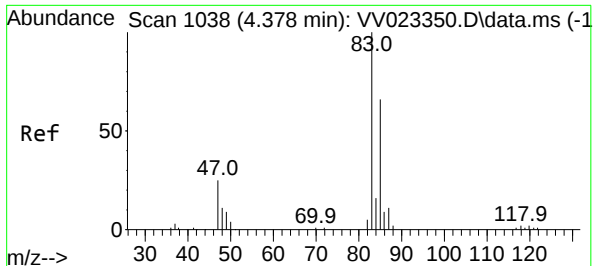
Ion Ratio Lower Upper

96 100

61 121.4 92.3 171.3

68 0.0 0.4 0.8#





#25

Chloroform

Concen: 1.094 ug/L

RT: 4.381 min Scan# 1109

Delta R.T. 0.003 min

Lab File: VV023364.D

Acq: 11 Nov 2021 04:31

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MSVOA_V

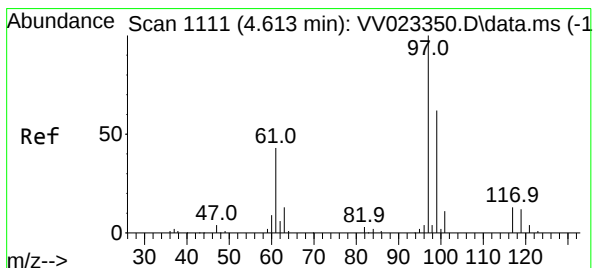
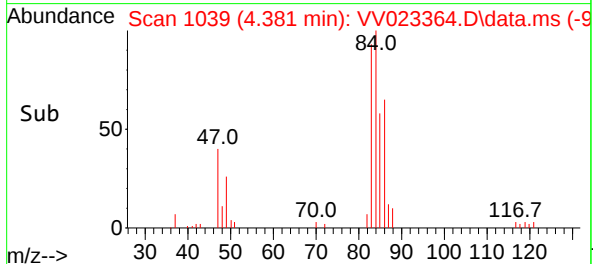
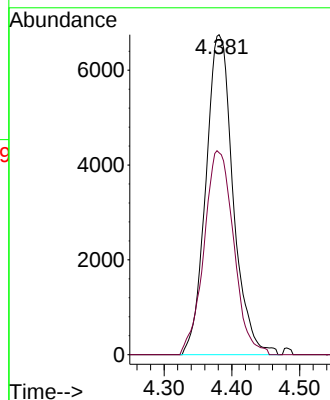
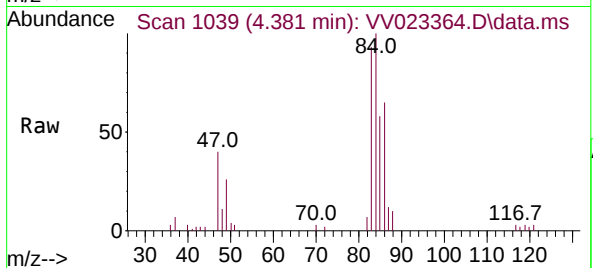
ClientSampleId :

Tgt Ion: 83 Resp: 18927

Ion Ratio Lower Upper

83 100

85 63.1 46.8 86.8



#29

1,1,1-Trichloroethane

Concen: 33.501 ug/L

RT: 4.609 min Scan# 1110

Delta R.T. -0.003 min

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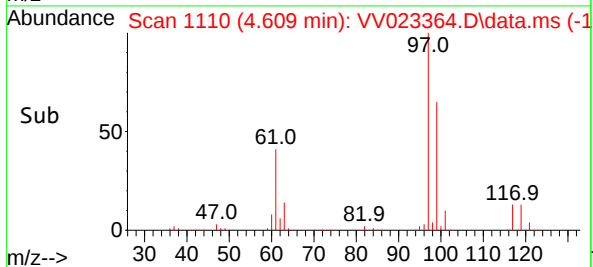
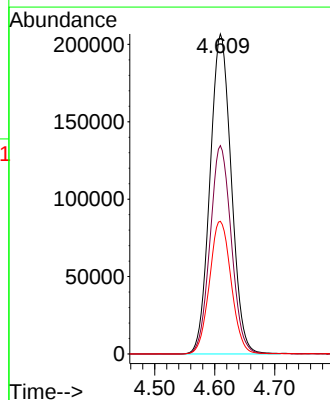
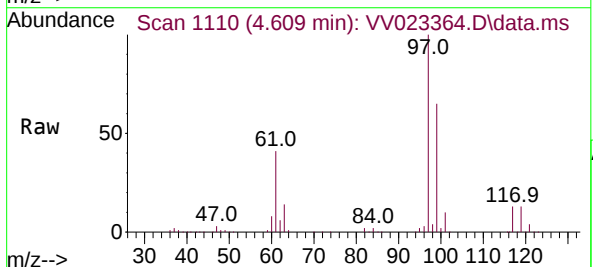
Tgt Ion: 97 Resp: 510304

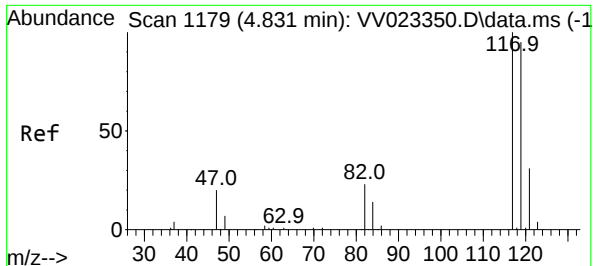
Ion Ratio Lower Upper

97 100

99 65.1 51.0 76.4

61 42.2 34.1 51.1

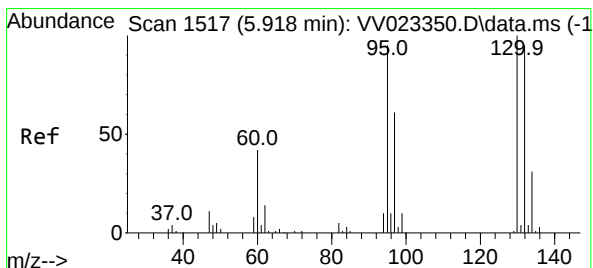
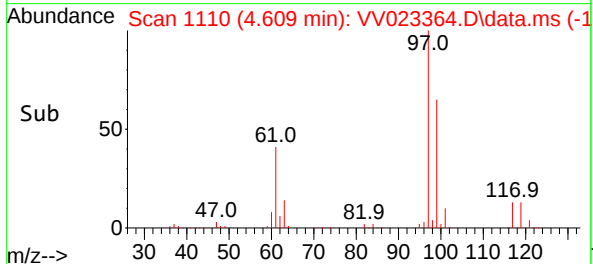
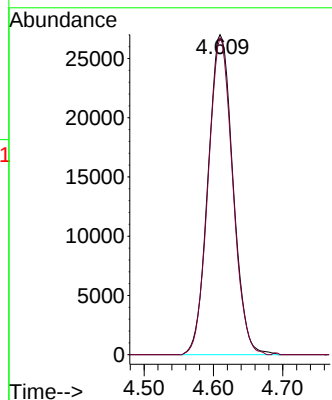
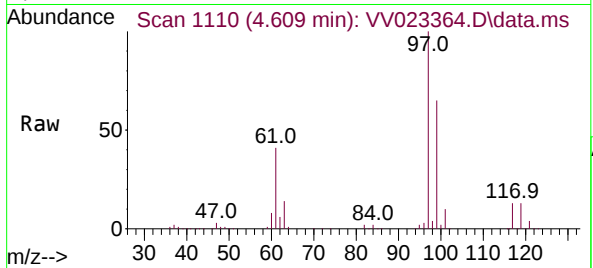




#31
Carbon tetrachloride
Concen: 4.941 ug/L
RT: 4.609 min Scan# 1179
Delta R.T. -0.222 min
Lab File: VV023364.D
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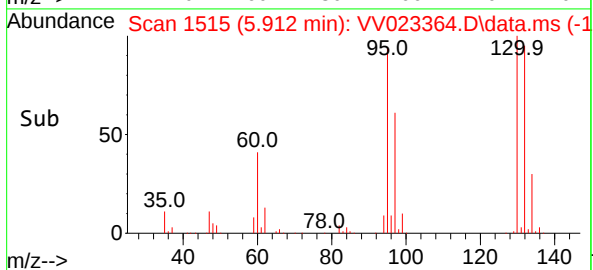
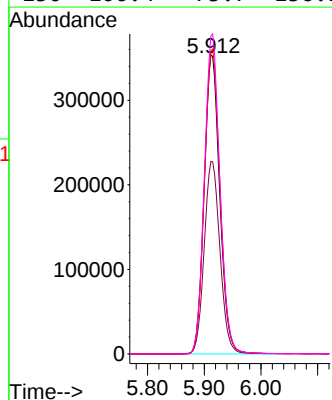
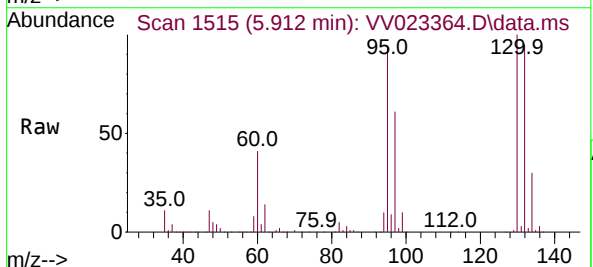
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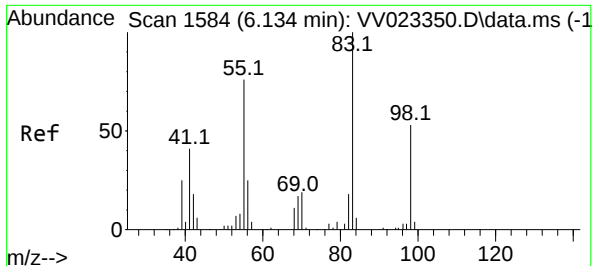
Tgt Ion:117 Resp: 67590
Ion Ratio Lower Upper
117 100
119 96.9 78.8 118.2



#34
Trichloroethene
Concen: 72.512 ug/L
RT: 5.912 min Scan# 1515
Delta R.T. -0.006 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

Tgt Ion: 95 Resp: 675953
Ion Ratio Lower Upper
95 100
97 64.4 45.0 83.6
132 101.4 69.7 129.4
130 106.4 73.7 136.9

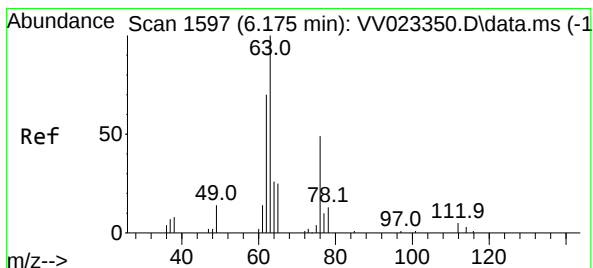
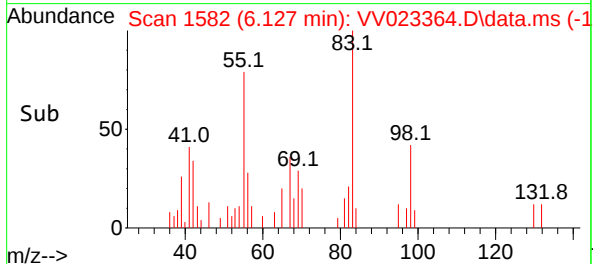
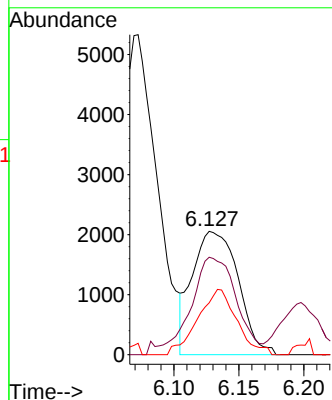
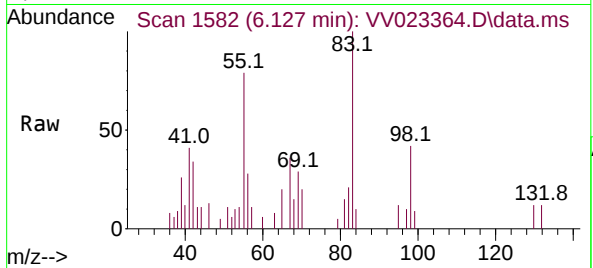




#35
Methylcyclohexane
Concen: 0.343 ug/L
RT: 6.127 min Scan# 11
Delta R.T. -0.006 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

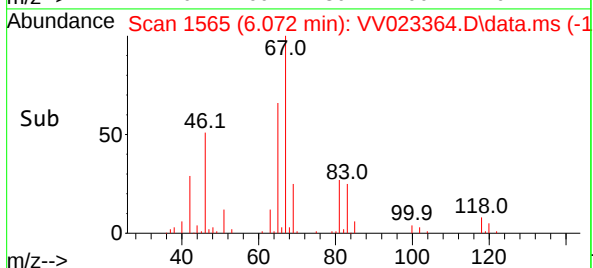
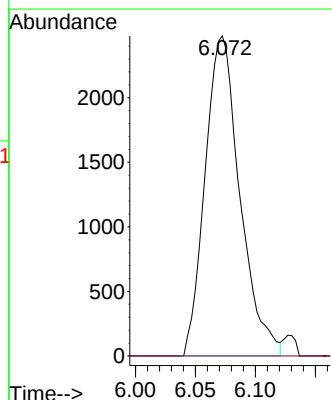
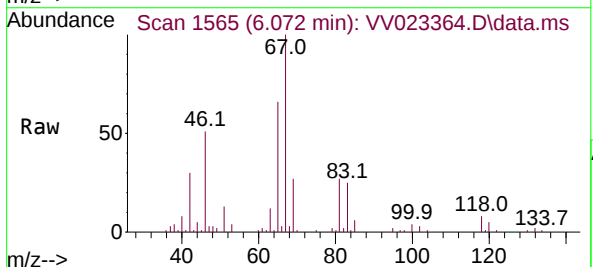
Instrument :
MSVOA_V
ClientSampleId :

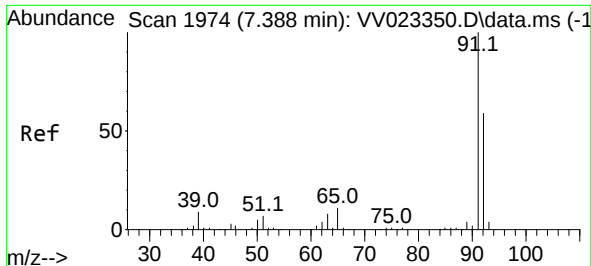
Tgt Ion: 83 Resp: 5054
Ion Ratio Lower Upper
83 100
55 77.8 62.8 94.2
98 44.9 37.9 56.9



#37
1,2-Dichloropropane
Concen: 0.612 ug/L
RT: 6.072 min Scan# 1565
Delta R.T. -0.103 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

Tgt Ion: 63 Resp: 5007
Ion Ratio Lower Upper
63 100
112 7.6 4.6 6.8#

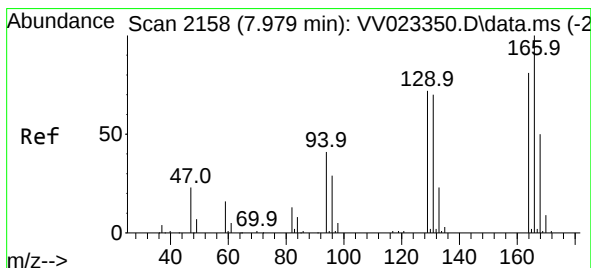
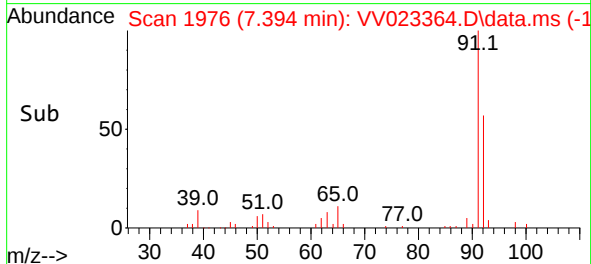
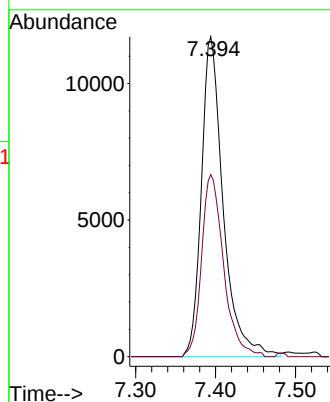
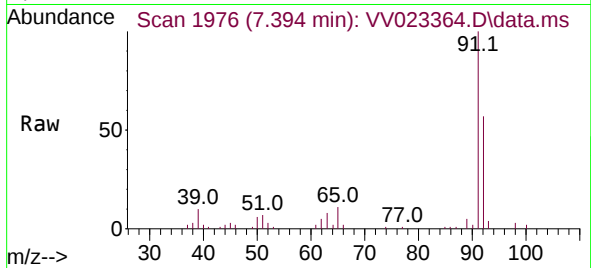




#42
Toluene
Concen: 0.593 ug/L
RT: 7.394 min Scan# 1974
Delta R.T. 0.006 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

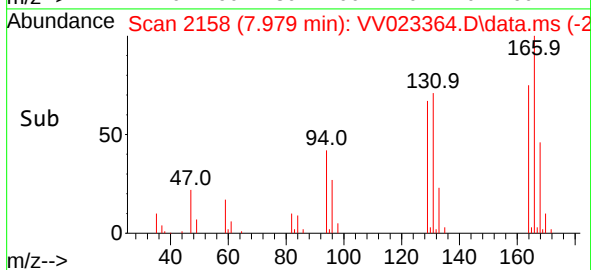
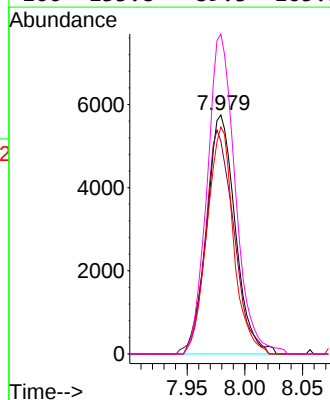
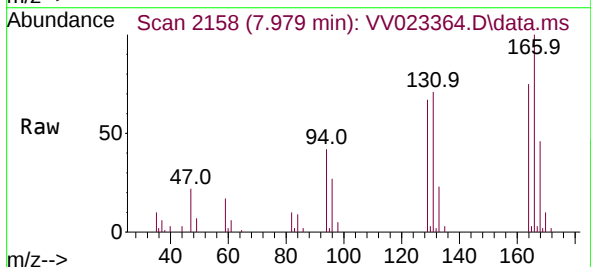
Instrument :
MSVOA_V
ClientSampleId :

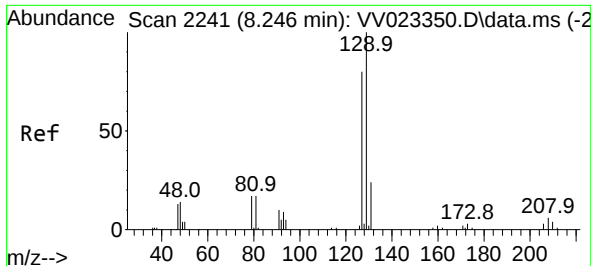
Tgt Ion: 91 Resp: 22217
Ion Ratio Lower Upper
91 100
92 56.9 39.3 72.9



#47
Tetrachloroethene
Concen: 1.226 ug/L
RT: 7.979 min Scan# 2158
Delta R.T. -0.000 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

Tgt Ion: 164 Resp: 9902
Ion Ratio Lower Upper
164 100
129 89.1 64.0 119.0
131 94.9 63.4 117.8
166 133.8 89.3 165.9





#49

Dibromochloromethane

Concen: 1.212 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. -0.270 min

Lab File: VV023364.D

Acq: 11 Nov 2021 04:31

Instrument :

MSVOA_V

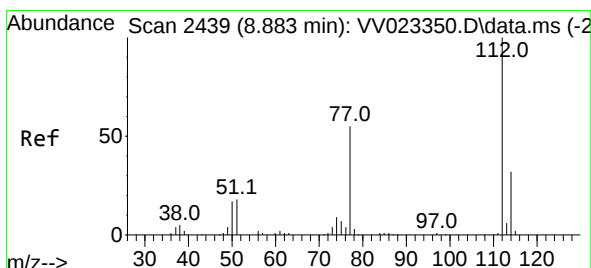
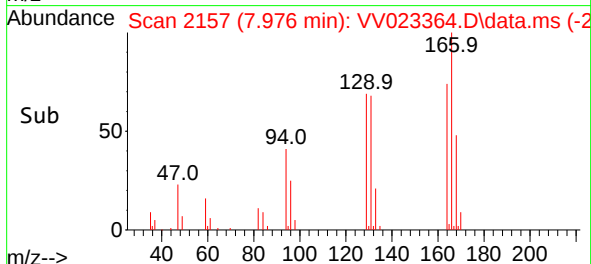
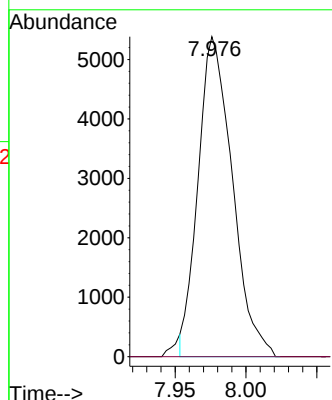
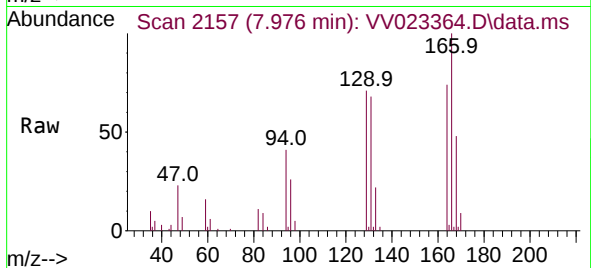
ClientSampleId :

Tgt Ion:129 Resp: 9030

Ion Ratio Lower Upper

129 100

127 0.0 54.7 101.7#



#51

Chlorobenzene

Concen: 8.230 ug/L

RT: 8.883 min Scan# 2439

Delta R.T. -0.000 min

Lab File: VV023364.D

Acq: 11 Nov 2021 04:31

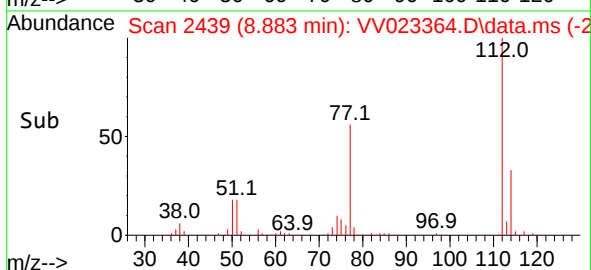
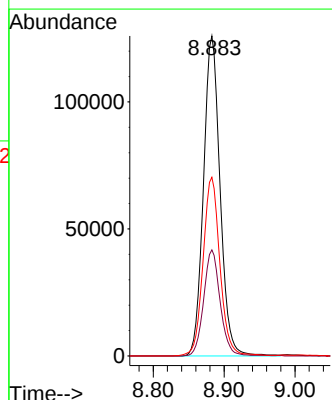
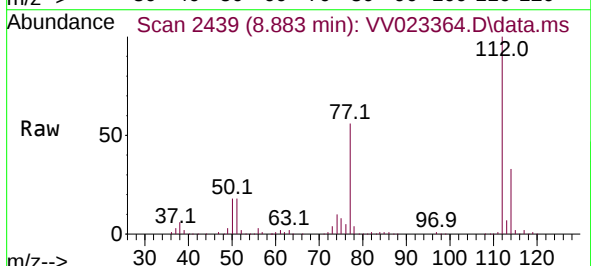
Tgt Ion:112 Resp: 205092

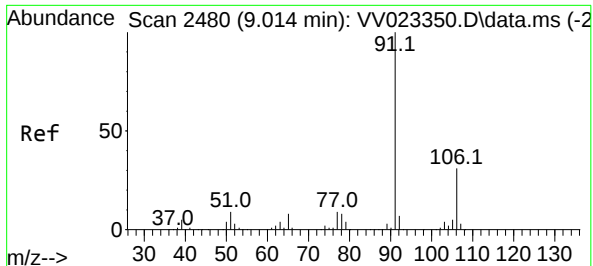
Ion Ratio Lower Upper

112 100

114 33.2 22.0 40.8

77 55.9 44.4 66.6

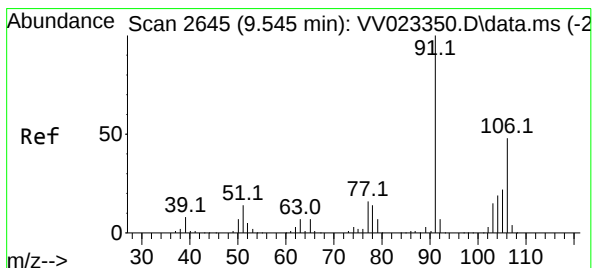
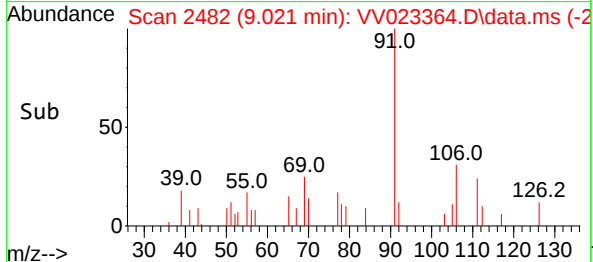
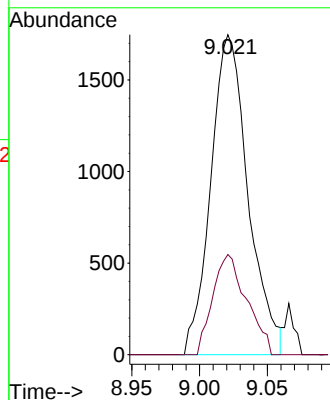
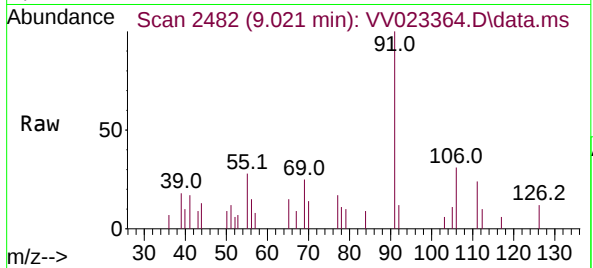




#52
Ethylbenzene
Concen: 0.085 ug/L
RT: 9.021 min Scan# 2480
Delta R.T. 0.006 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

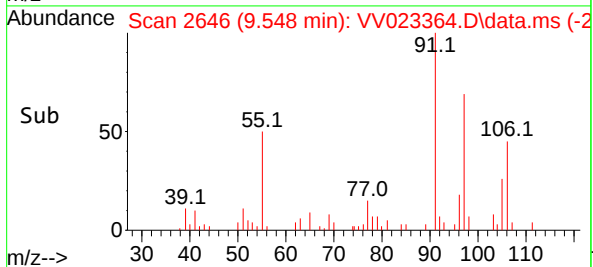
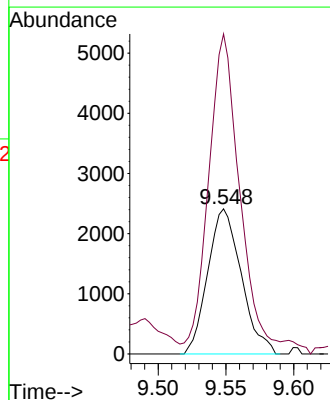
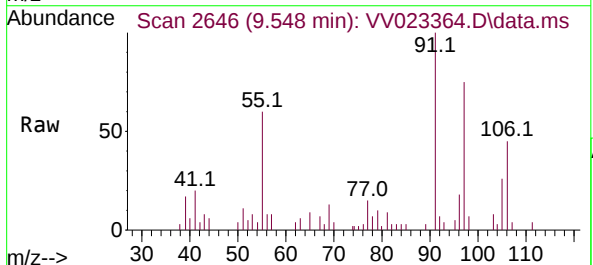
Instrument :
MSVOA_V
ClientSampleId :

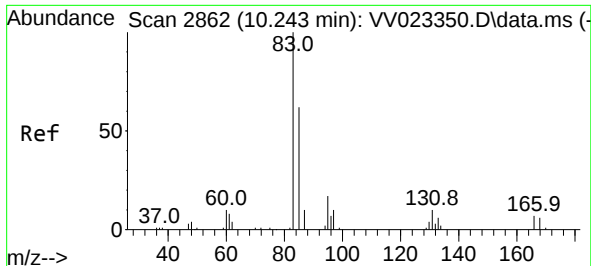
Tgt Ion: 91 Resp: 3345
Ion Ratio Lower Upper
91 100
106 31.3 22.5 41.9



#54
o-xylene
Concen: 0.285 ug/L
RT: 9.548 min Scan# 2646
Delta R.T. 0.003 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

Tgt Ion: 106 Resp: 4154
Ion Ratio Lower Upper
106 100
91 220.5 148.3 275.5





#57

1,1,2-Tetrachloroethane

Concen: 0.736 ug/L

RT: 10.239 min Scan# 2861

Delta R.T. -0.003 min

Lab File: VV023364.D

Acq: 11 Nov 2021 04:31

Instrument :

MSVOA_V

ClientSampleId :

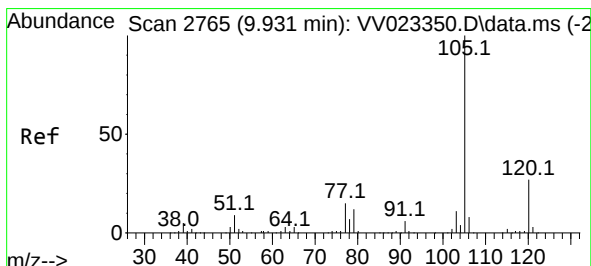
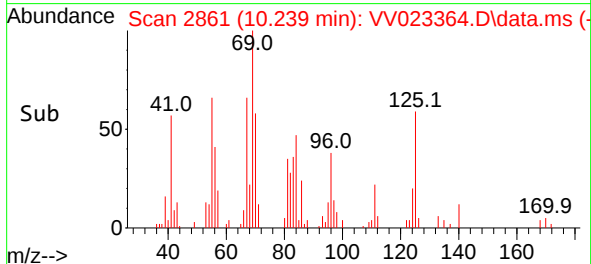
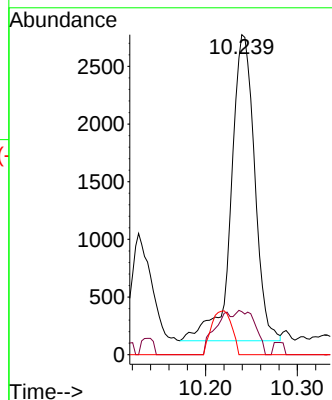
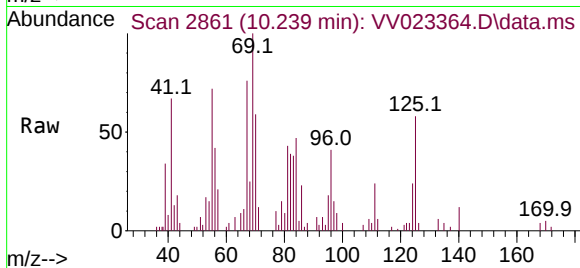
Tgt Ion: 83 Resp: 4739

Ion Ratio Lower Upper

83 100

85 13.5 45.1 83.9#

131 0.0 7.8 11.6#



#60

Isopropylbenzene

Concen: 1.288 ug/L

RT: 9.934 min Scan# 2766

Delta R.T. 0.003 min

Lab File: VV023364.D

Acq: 11 Nov 2021 04:31

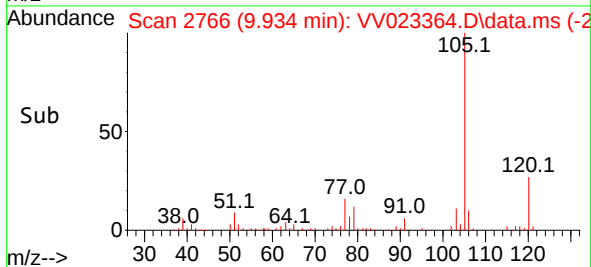
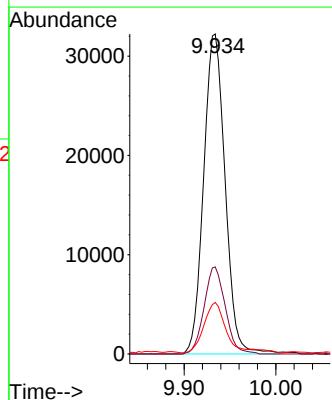
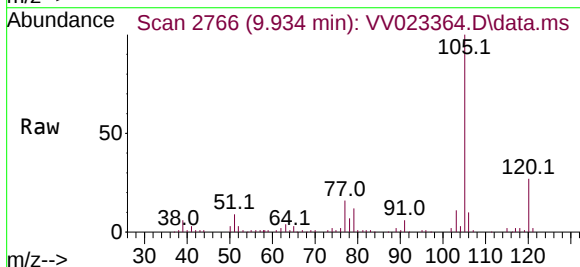
Tgt Ion: 105 Resp: 52311

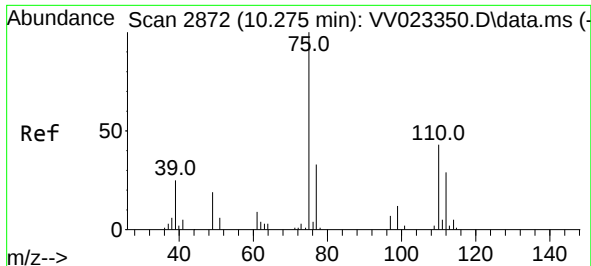
Ion Ratio Lower Upper

105 100

120 26.8 21.7 32.5

77 15.5 12.6 19.0

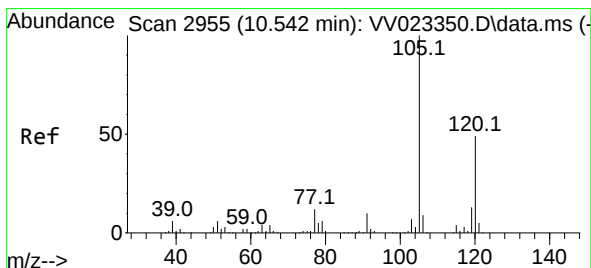
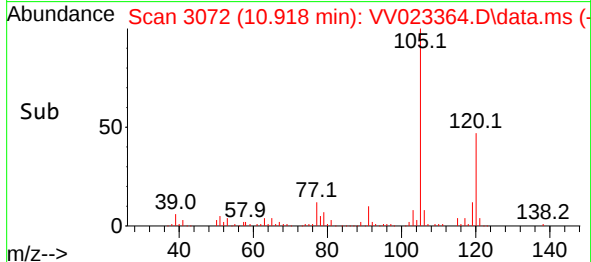
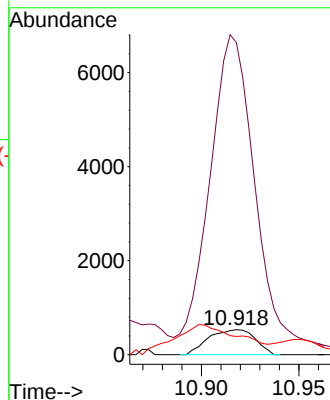
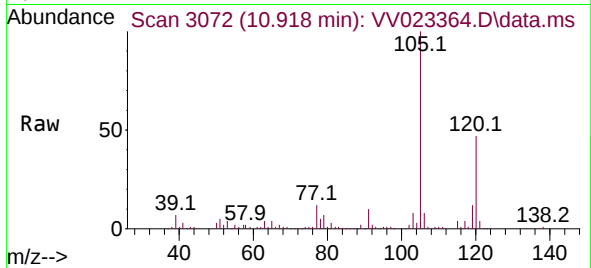




#61
1,2,3-Trichloropropane
Concen: 0.188 ug/L
RT: 10.918 min Scan# 3072
Delta R.T. 0.643 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

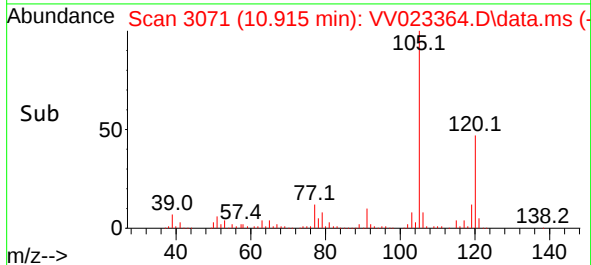
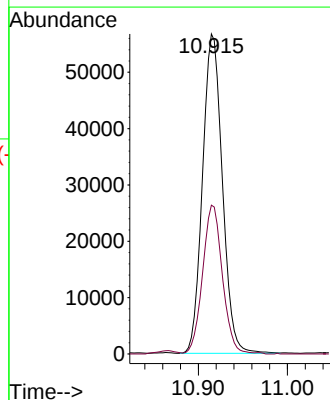
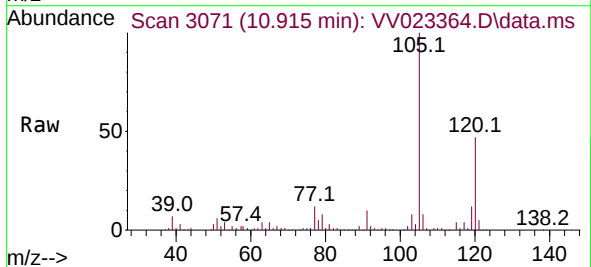
Instrument :
MSVOA_V
ClientSampleId :

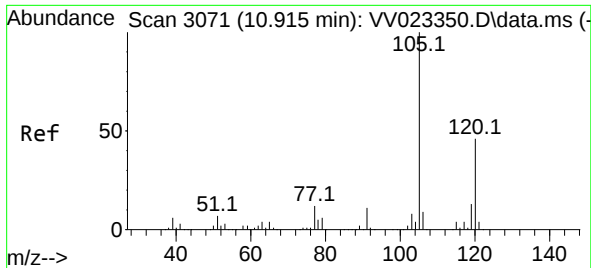
Tgt Ion: 75 Resp: 886
Ion Ratio Lower Upper
75 100
77 1218.3 26.6 39.8#
110 171.2 31.8 47.6#



#62
1,3,5-Trimethylbenzene
Concen: 2.601 ug/L
RT: 10.915 min Scan# 3071
Delta R.T. 0.373 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

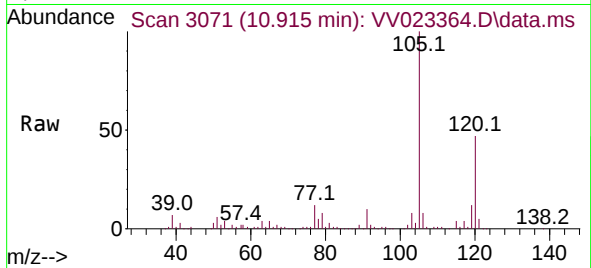
Tgt Ion: 105 Resp: 87579
Ion Ratio Lower Upper
105 100
120 46.6 39.7 59.5



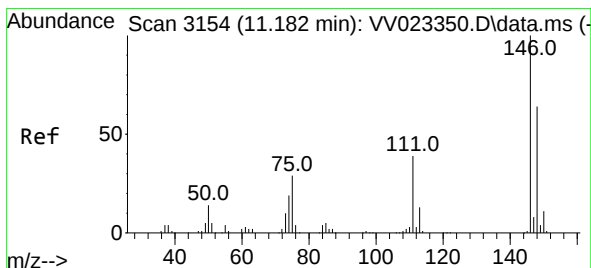
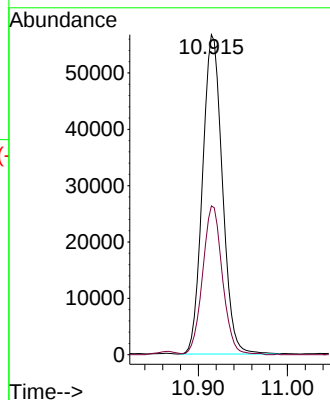
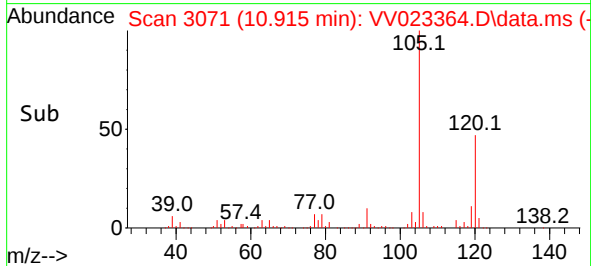


#63
1,2,4-Trimethylbenzene
Concen: 2.613 ug/L
RT: 10.915 min Scan# 3071
Delta R.T. -0.000 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

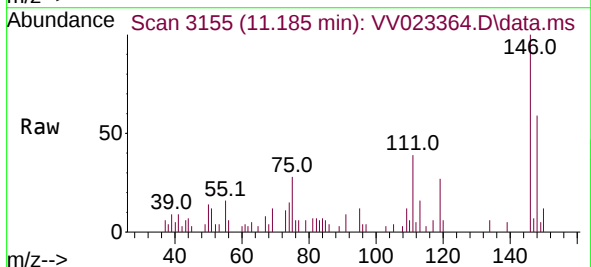
Instrument :
MSVOA_V
ClientSampleId :



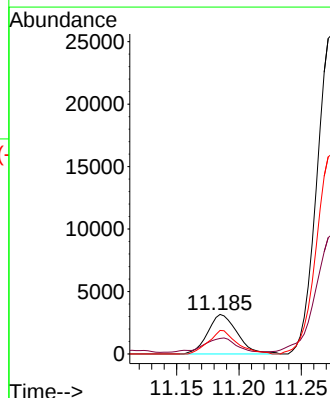
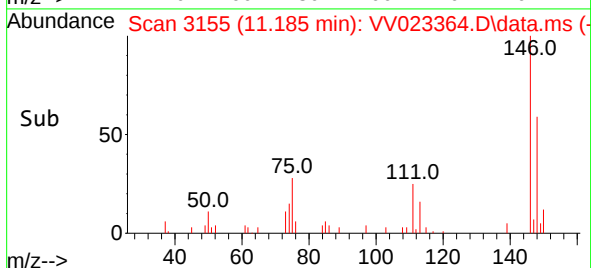
Tgt Ion:105 Resp: 87579
Ion Ratio Lower Upper
105 100
120 46.6 37.4 56.2

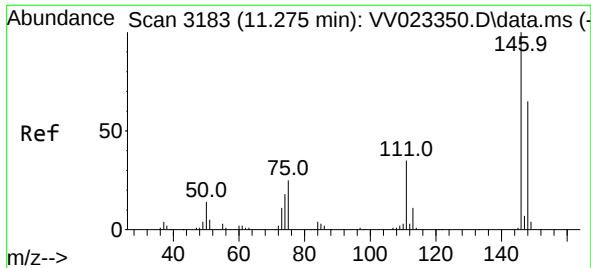


#64
1,3-Dichlorobenzene
Concen: 0.252 ug/L
RT: 11.185 min Scan# 3155
Delta R.T. 0.003 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31



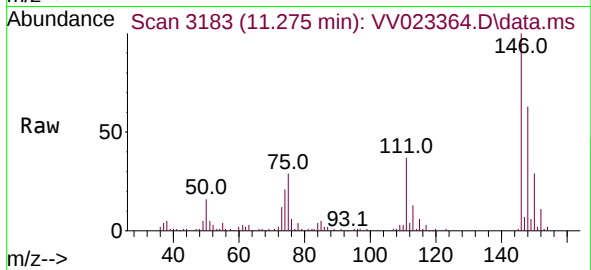
Tgt Ion:146 Resp: 5225
Ion Ratio Lower Upper
146 100
111 39.3 26.7 49.7
148 59.5 42.9 79.7



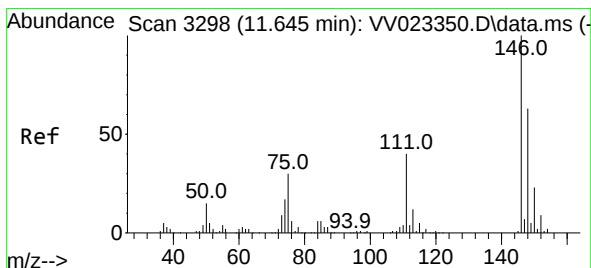
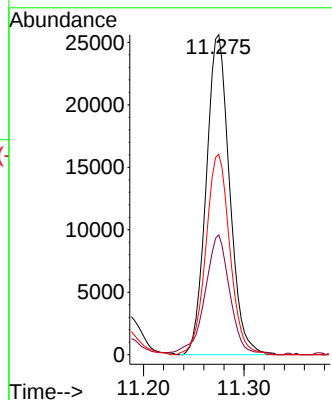
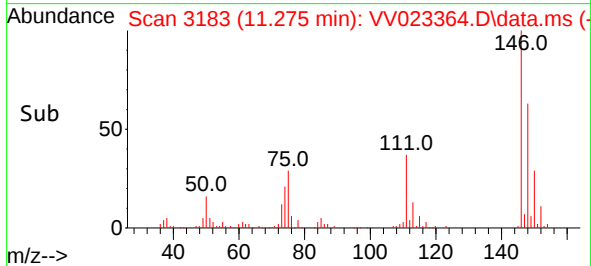


#65
1,4-Dichlorobenzene
Concen: 1.948 ug/L
RT: 11.275 min Scan# 3183
Delta R.T. -0.000 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

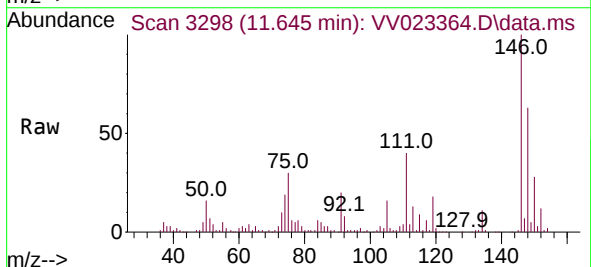
Instrument :
MSVOA_V
ClientSampleId :



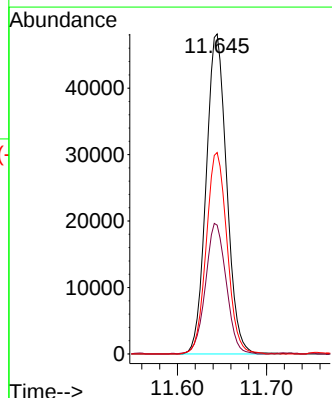
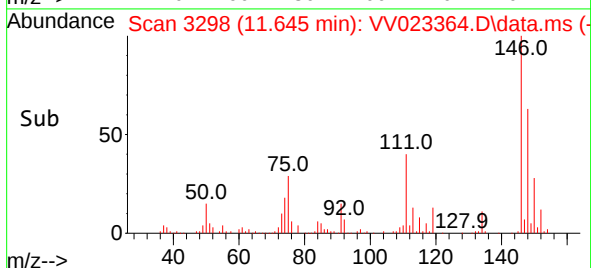
Tgt Ion:146 Resp: 41273
Ion Ratio Lower Upper
146 100
111 37.4 26.2 48.8
148 62.7 44.4 82.5

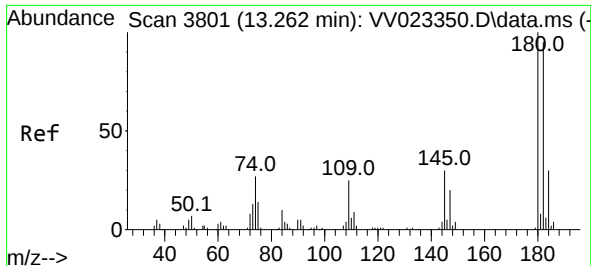


#67
1,2-Dichlorobenzene
Concen: 4.149 ug/L
RT: 11.645 min Scan# 3298
Delta R.T. 0.000 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31



Tgt Ion:146 Resp: 77029
Ion Ratio Lower Upper
146 100
111 40.3 31.6 47.4
148 62.9 51.0 76.6

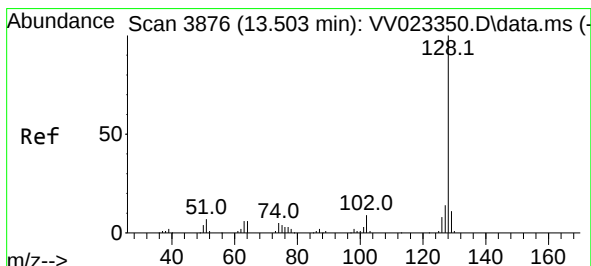
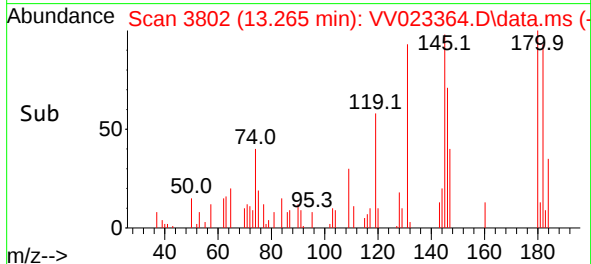
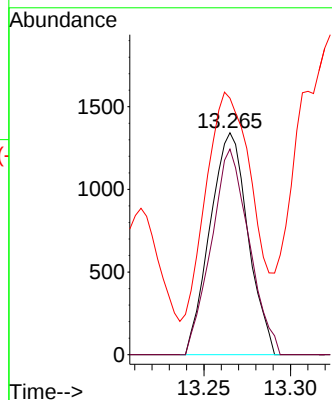
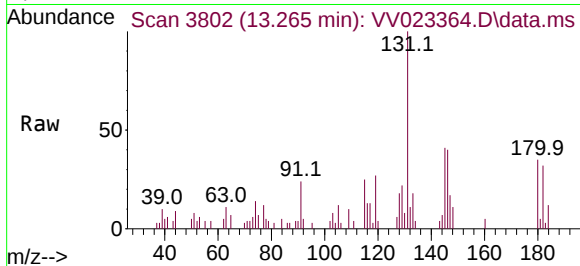




#70
1,2,4-trichlorobenzene
Concen: 0.157 ug/L
RT: 13.265 min Scan# 3801
Delta R.T. 0.003 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion:180 Resp: 2047
Ion Ratio Lower Upper
180 100
182 92.3 76.9 115.3
145 123.9 24.4 36.6#



#71
Naphthalene
Concen: 0.306 ug/L
RT: 13.506 min Scan# 3877
Delta R.T. 0.003 min
Lab File: VV023364.D
Acq: 11 Nov 2021 04:31

Tgt Ion:128 Resp: 5873
Ion Ratio Lower Upper
128 100
129 0.0 8.6 13.0#
127 9.9 10.5 15.7#

