

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW102622\
 Data File : VW028705.D
 Acq On : 26 Oct 2022 19:40
 Operator : SY/MD
 Sample : N5232-09
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 27 06:26:52 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR102522WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Oct 27 05:05:38 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.612	114	154263	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.847	117	155439	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.242	152	76902	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	74102	6.907	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	138.200%#
7) Chloroethane-d5	1.564	69	64073	7.063	ug/L	-0.01
Spiked Amount	5.000	Range	65 - 130	Recovery	=	141.200%#
11) 1,1-Dichloroethene-d2	2.105	63	106535	5.134	ug/L	-0.01
Spiked Amount	5.000	Range	60 - 125	Recovery	=	102.600%
20) 2-Butanone-d5	3.892	46	138129	56.463	ug/L	-0.08
Spiked Amount	50.000	Range	40 - 130	Recovery	=	112.920%
24) Chloroform-d	4.342	84	117050	6.283	ug/L	-0.01
Spiked Amount	5.000	Range	70 - 125	Recovery	=	125.600%#
26) 1,2-Dichloroethane-d4	5.030	65	64233	6.795	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	136.000%#
32) Benzene-d6	5.047	84	241053	5.799	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	116.000%
36) 1,2-Dichloropropane-d6	6.066	67	83779	6.367	ug/L	-0.01
Spiked Amount	5.000	Range	60 - 140	Recovery	=	127.400%
41) Toluene-d8	7.313	98	198043	6.105	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	122.200%
43) trans-1,3-Dichloroprop...	7.622	79	13288	3.250	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	65.000%
46) 2-Hexanone-d5	8.085	63	124654	65.504	ug/L	-0.03
Spiked Amount	50.000	Range	45 - 130	Recovery	=	131.000%#
56) 1,1,2,2-Tetrachloroeth...	10.210	84	57561	6.596	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	132.000%#
66) 1,2-Dichlorobenzene-d4	11.615	152	70779	6.673	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	133.400%#
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.134	85	845	0.130	ug/L	90
3) Chloromethane	1.236	50	1422	0.117	ug/L	98
5) Vinyl chloride	1.310	62	1380	0.114	ug/L #	1
8) Chloroethane	1.584	64	49232	6.000	ug/L	83
10) 1,1,2-Trichloro-1,2,2-...	2.105	101	867	0.091	ug/L #	32
13) Acetone	2.182	43	22454	15.464	ug/L	96
14) Carbon disulfide	2.291	76	3427	0.175	ug/L	96
16) Methylene chloride	2.503	84	2607	0.223	ug/L	91
17) Methyl tert-butyl Ether	2.767	73	28975	1.303	ug/L #	50
18) trans-1,2-Dichloroethene	2.760	96	2506	0.294	ug/L	93
19) 1,1-Dichloroethane	3.191	63	3669	0.178	ug/L #	86
21) 2-Butanone	4.333	43	57994	23.238	ug/L #	1
27) 1,2-Dichloroethane	5.098	62	224661	18.978	ug/L #	77
30) Cyclohexane	4.674	56	30220	1.560	ug/L	96
35) Methylcyclohexane	6.127	83	18816	1.184	ug/L	90
42) Toluene	7.387	91	86829	1.971	ug/L	100
44) trans-1,3-Dichloropropene	7.857	75	1094	0.094	ug/L	95
48) 2-Hexanone	8.079	43	43732	8.795	ug/L #	62
51) Chlorobenzene	8.879	112	11248131	405.529	ug/L	91

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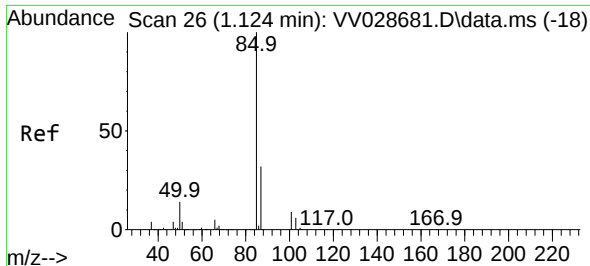
Instrument :
 MSVOA_V
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

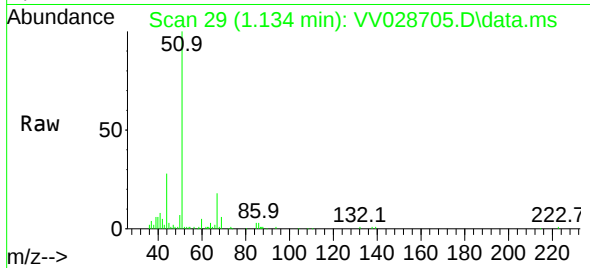
52) Ethylbenzene	9.008	91	170833	3.490	ug/L	96
53) m,p-Xylene	9.130	106	1151879	65.166	ug/L	98
54) o-Xylene	9.535	106	163196	9.178	ug/L	99
55) Styrene	9.538	104	10558	0.352	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.226	83	2349	0.257	ug/L #	72
60) Isopropylbenzene	9.924	105	2737362	56.566	ug/L	99
61) 1,2,3-Trichloropropane	9.924	75	35529	5.381	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.532	105	119872	8.491	ug/L	99
63) 1,2,4-Trimethylbenzene	10.905	105	540782	13.833	ug/L	99
64) 1,3-Dichlorobenzene	11.178	146	14159	0.679	ug/L	94
65) 1,4-Dichlorobenzene	11.265	146	123803	5.953	ug/L	99
67) 1,2-Dichlorobenzene	11.635	146	68305	3.584	ug/L	98
71) Naphthalene	13.493	128	202381	9.800	ug/L	100

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

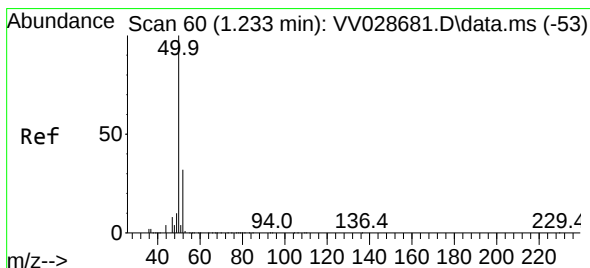
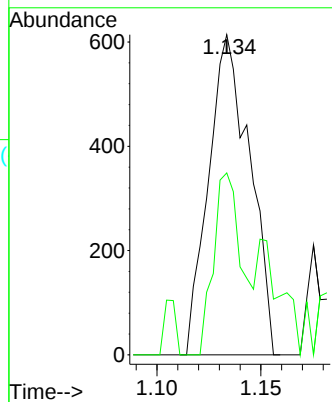
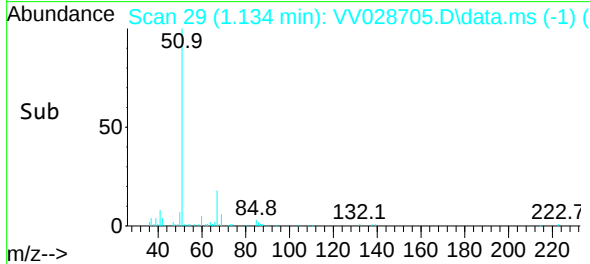


#2
 Dichlorodifluoromethane
 Concen: 0.130 ug/L
 RT: 1.134 min Scan# 29
 Delta R.T. 0.009 min
 Lab File: VV028705.D
 Acq: 26 Oct 2022 19:40

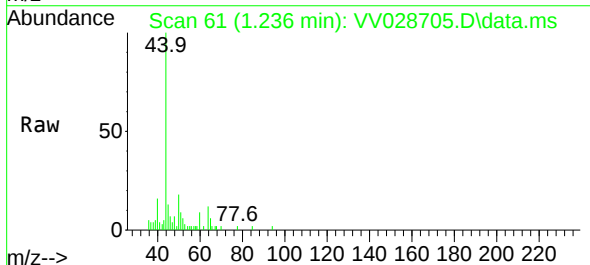
Instrument :
 MSVOA_V
 ClientSampleId :



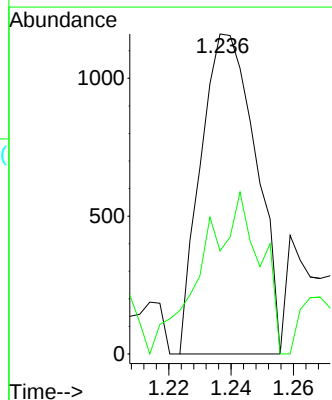
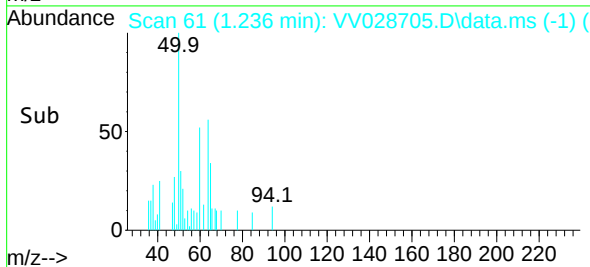
Tgt Ion: 85 Resp: 845
 Ion Ratio Lower Upper
 85 100
 87 39.2 26.6 40.0

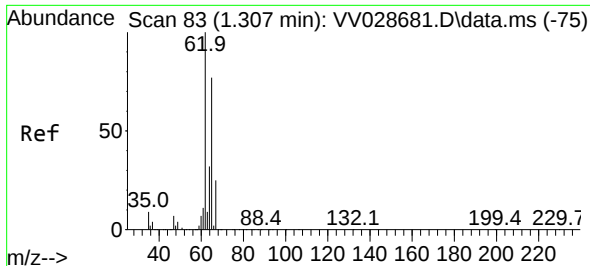


#3
 Chloromethane
 Concen: 0.117 ug/L
 RT: 1.236 min Scan# 61
 Delta R.T. 0.003 min
 Lab File: VV028705.D
 Acq: 26 Oct 2022 19:40



Tgt Ion: 50 Resp: 1422
 Ion Ratio Lower Upper
 50 100
 52 32.2 21.8 40.6

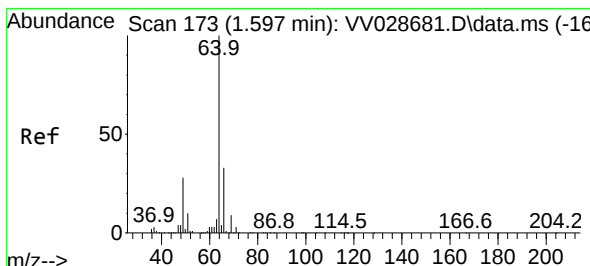
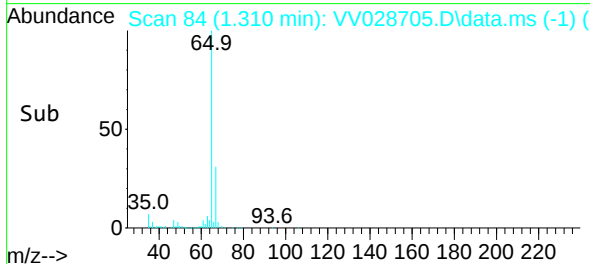
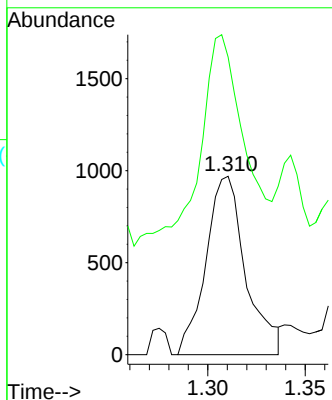
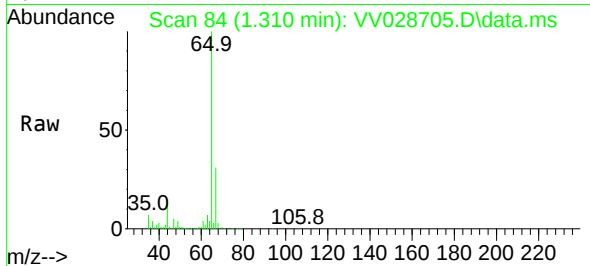




#5
 Vinyl chloride
 Concen: 0.114 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. 0.003 min
 Lab File: VV028705.D
 Acq: 26 Oct 2022 19:40

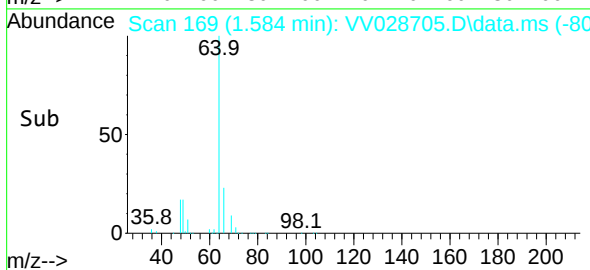
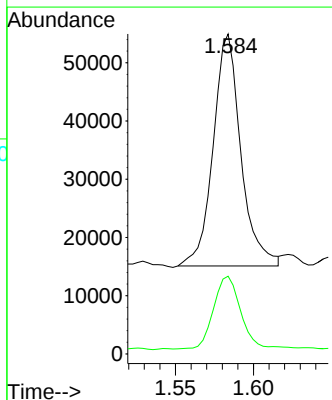
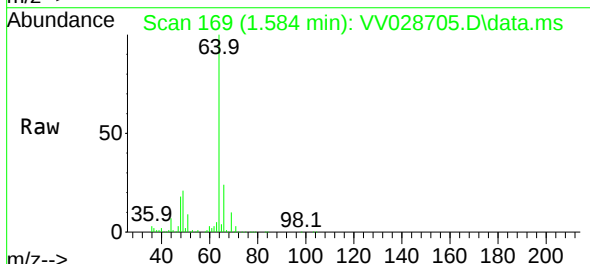
Instrument :
 MSVOA_V
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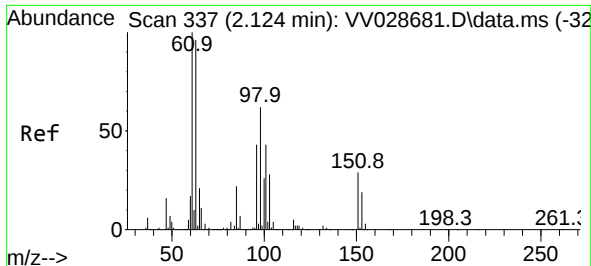
Tgt Ion: 62 Resp: 1380
 Ion Ratio Lower Upper
 62 100
 64 166.7 22.0 41.0#



#8
 Chloroethane
 Concen: 6.000 ug/L
 RT: 1.584 min Scan# 169
 Delta R.T. -0.013 min
 Lab File: VV028705.D
 Acq: 26 Oct 2022 19:40

Tgt Ion: 64 Resp: 49232
 Ion Ratio Lower Upper
 64 100
 66 24.3 23.9 44.5

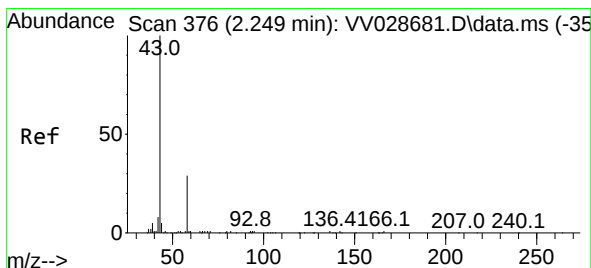
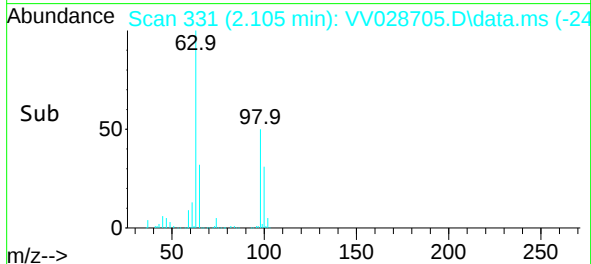
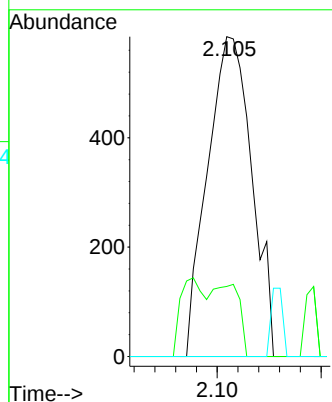
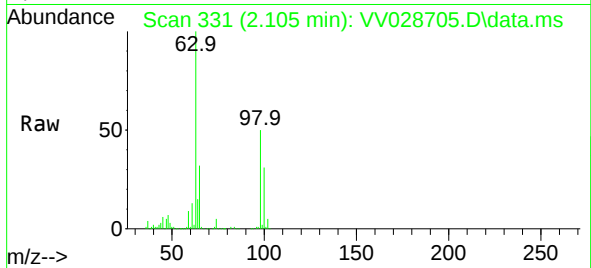




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.091 ug/L
RT: 2.105 min Scan# 311
Delta R.T. -0.019 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

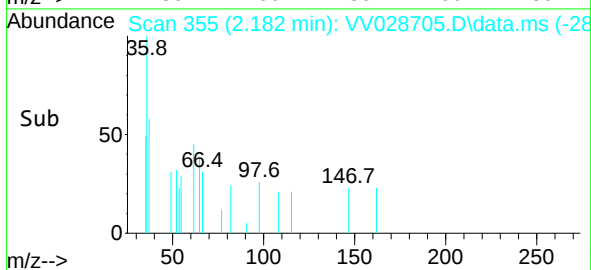
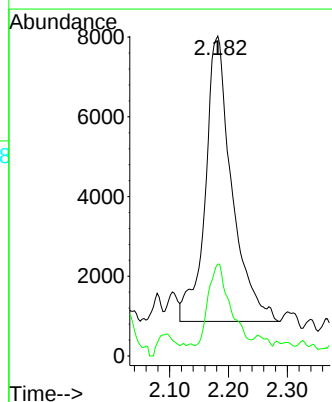
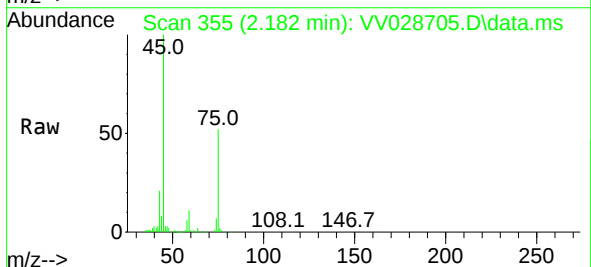
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MSVOA_V
ClientSampleId :

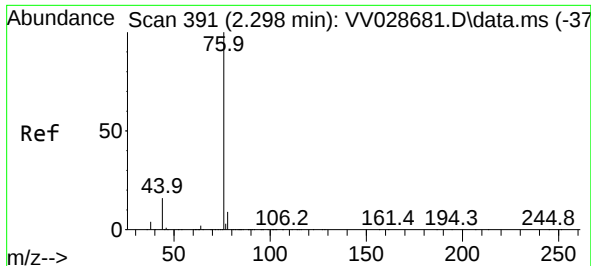
Tgt Ion:101 Resp: 867
Ion Ratio Lower Upper
101 100
85 13.6 37.0 55.6#
151 0.0 50.2 75.2#



#13
Acetone
Concen: 15.464 ug/L
RT: 2.182 min Scan# 355
Delta R.T. -0.068 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

Tgt Ion: 43 Resp: 22454
Ion Ratio Lower Upper
43 100
58 23.2 0.0 50.2

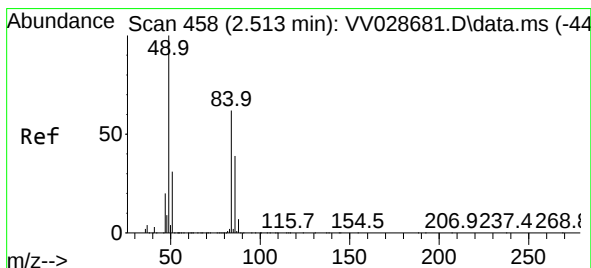
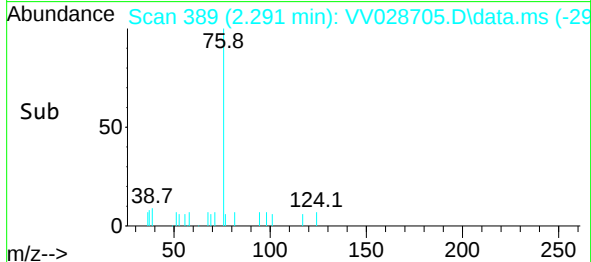
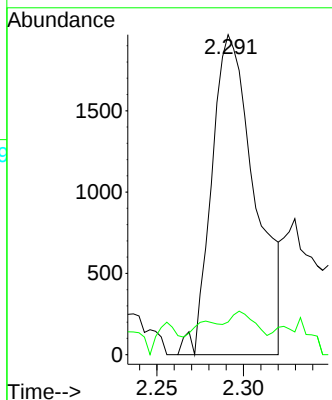
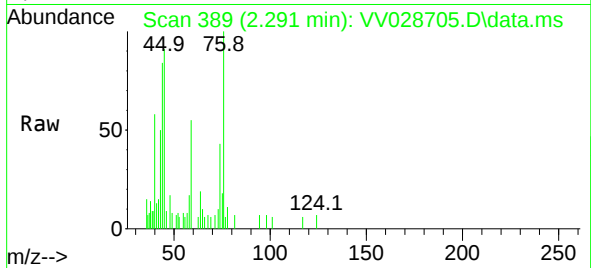




#14
Carbon disulfide
Concen: 0.175 ug/L
RT: 2.291 min Scan# 31
Delta R.T. -0.007 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

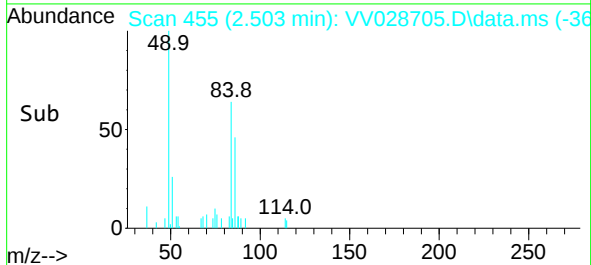
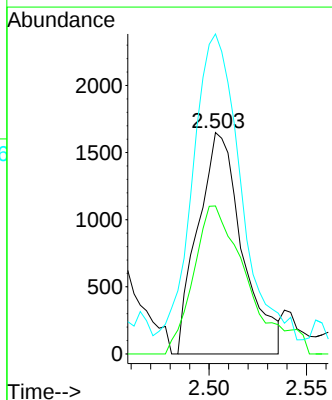
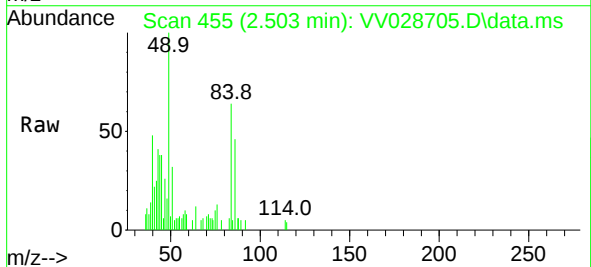
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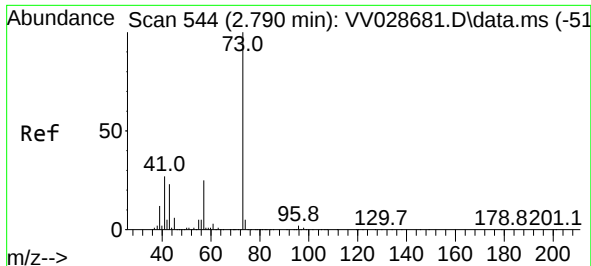
Tgt Ion: 76 Resp: 3427
Ion Ratio Lower Upper
76 100
78 10.2 7.1 10.7



#16
Methylene chloride
Concen: 0.223 ug/L
RT: 2.503 min Scan# 455
Delta R.T. -0.010 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

Tgt Ion: 84 Resp: 2607
Ion Ratio Lower Upper
84 100
86 66.8 44.4 82.4
49 144.5 110.8 205.8

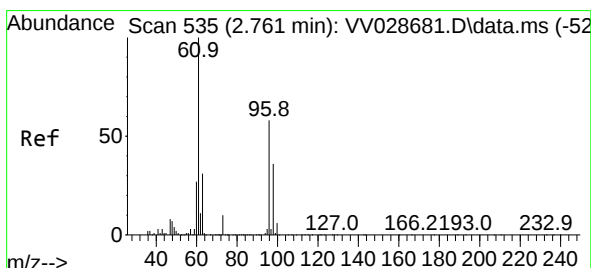
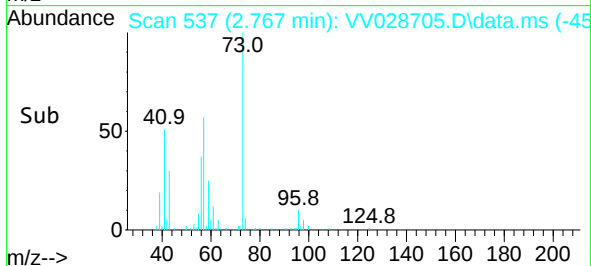
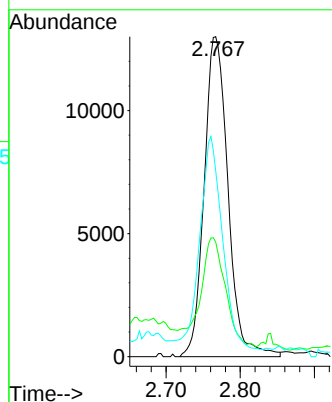
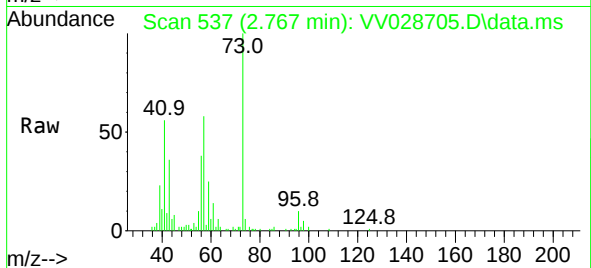




#17
Methyl tert-butyl Ether
Concen: 1.303 ug/L
RT: 2.767 min Scan# 51
Delta R.T. -0.023 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

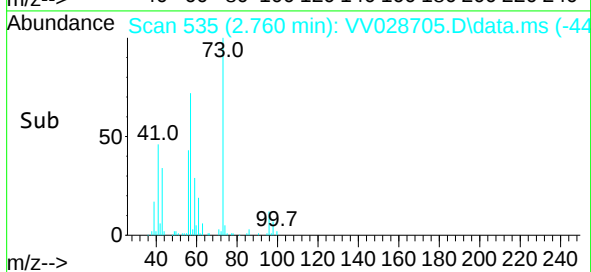
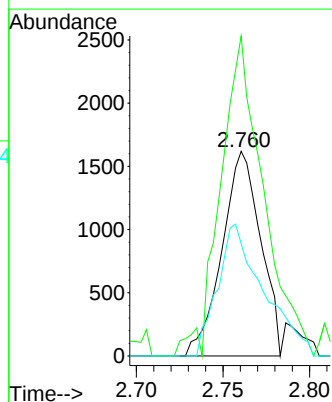
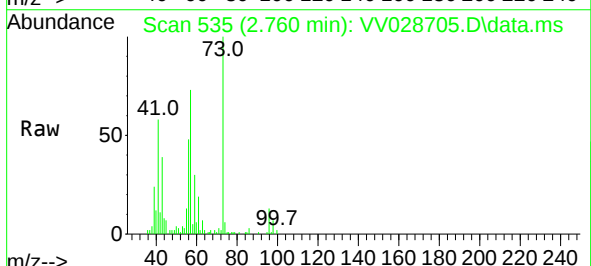
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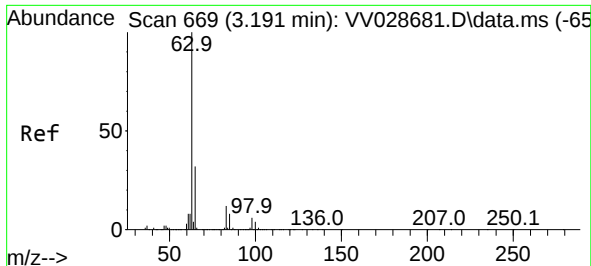
Tgt Ion: 73 Resp: 28975
Ion Ratio Lower Upper
73 100
43 33.0 18.0 27.0#
57 62.7 20.0 30.0#



#18
trans-1,2-Dichloroethene
Concen: 0.294 ug/L
RT: 2.760 min Scan# 535
Delta R.T. -0.000 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

Tgt Ion: 96 Resp: 2506
Ion Ratio Lower Upper
96 100
61 156.4 114.3 212.3
98 54.9 45.0 83.6





#19

1,1-Dichloroethane

Concen: 0.178 ug/L

RT: 3.191 min Scan# 6

Delta R.T. -0.000 min

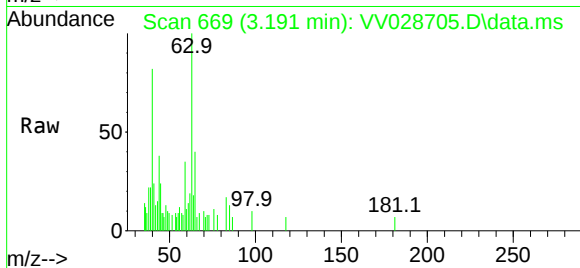
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Acq: 26 Oct 2022 19:40

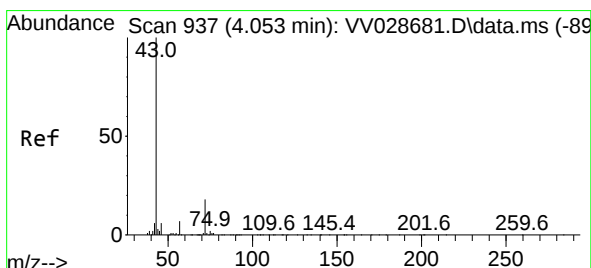
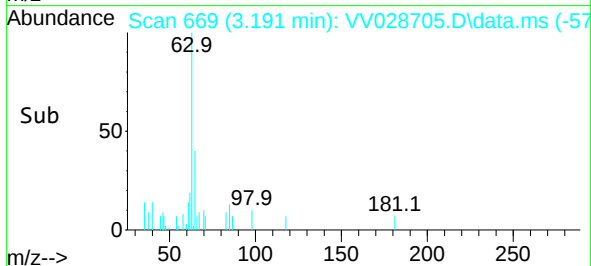
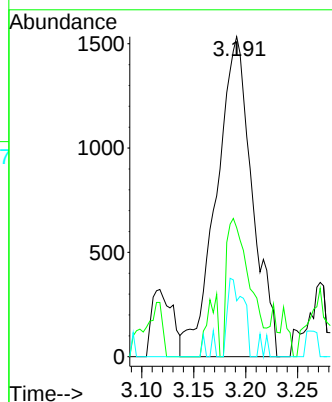
Instrument :

MSVOA_V

ClientSampleId :



Tgt Ion:	63	Resp:	3669
Ion	Ratio	Lower	Upper
63	100		
65	40.3	23.1	42.9
83	17.5	7.9	14.7#



#21

2-Butanone

Concen: 23.238 ug/L

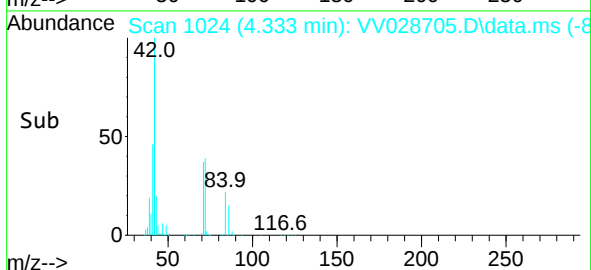
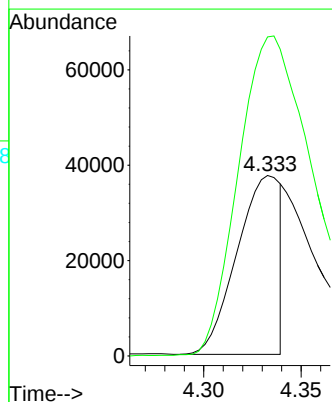
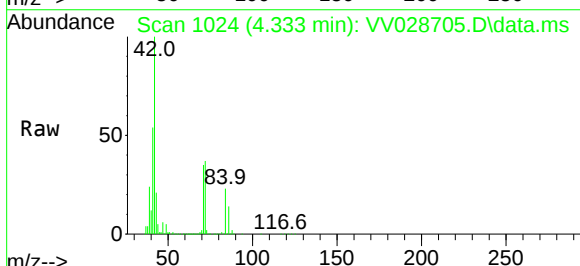
RT: 4.333 min Scan# 1024

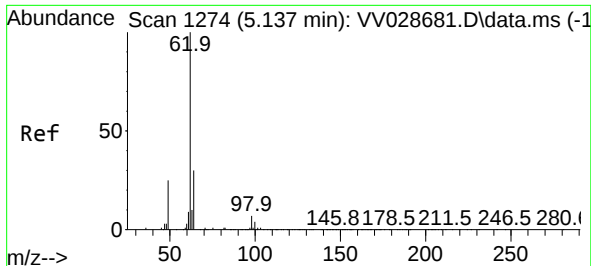
Delta R.T. 0.280 min

Lab File: VV028705.D

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Tgt Ion:	43	Resp:	57994
Ion	Ratio	Lower	Upper
43	100		
72	175.6	10.2	30.4#





#27

1,2-Dichloroethane

Concen: 18.978 ug/L

RT: 5.098 min Scan# 1130

Delta R.T. -0.039 min

Lab File: VV028705.D

Acq: 26 Oct 2022 19:40

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MSVOA_V

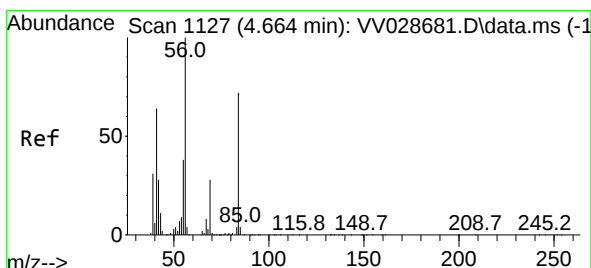
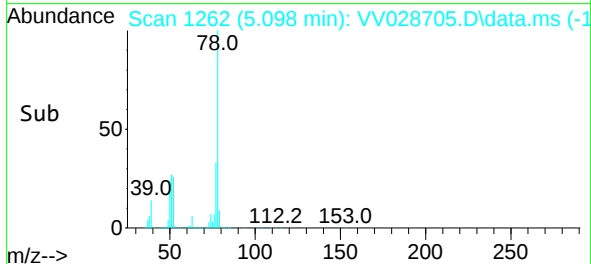
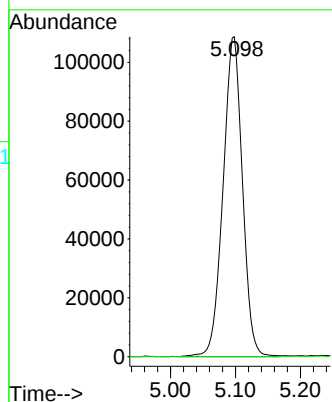
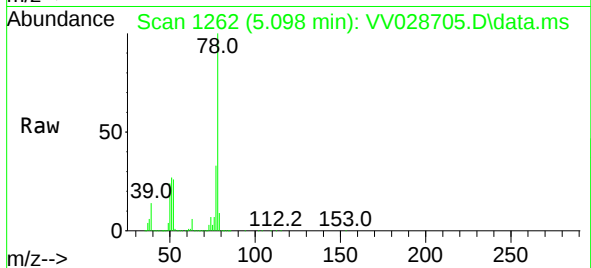
ClientSampleId :

Tgt Ion: 62 Resp: 224661

Ion Ratio Lower Upper

62 100

98 0.0 6.6 9.8#



#30

Cyclohexane

Concen: 1.560 ug/L

RT: 4.674 min Scan# 1130

Delta R.T. 0.010 min

Lab File: VV028705.D

Acq: 26 Oct 2022 19:40

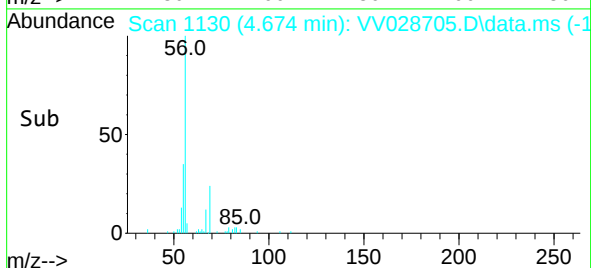
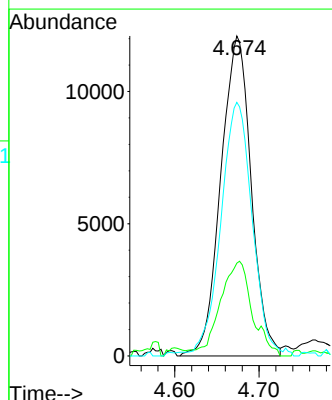
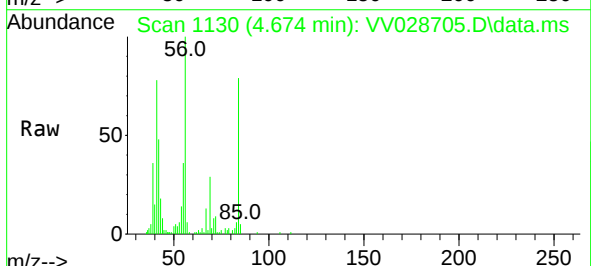
Tgt Ion: 56 Resp: 30220

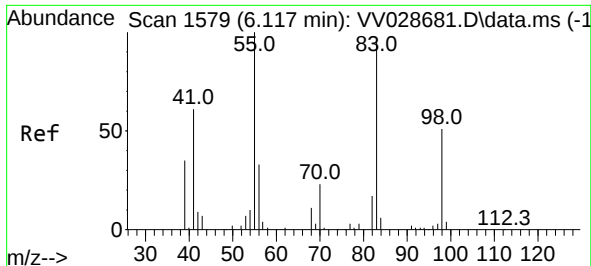
Ion Ratio Lower Upper

56 100

69 31.1 22.6 34.0

84 79.0 60.4 90.6

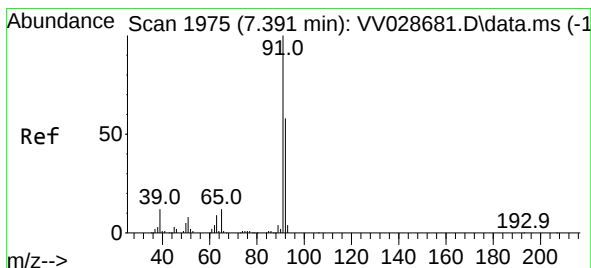
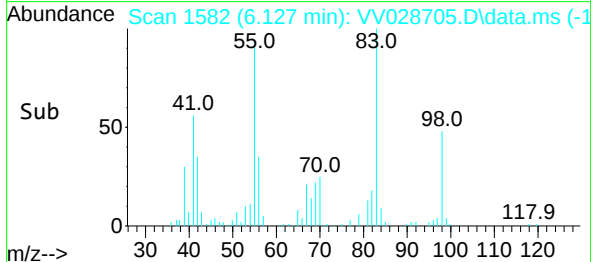
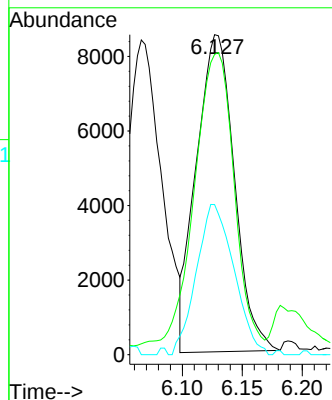
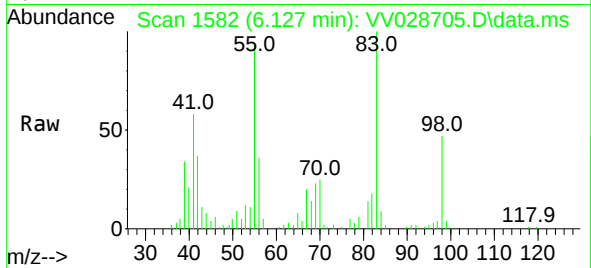




#35
Methylcyclohexane
Concen: 1.184 ug/L
RT: 6.127 min Scan# 11
Delta R.T. 0.010 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

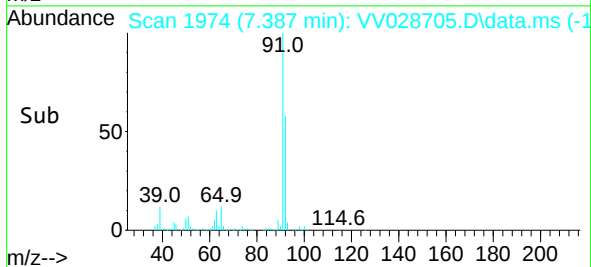
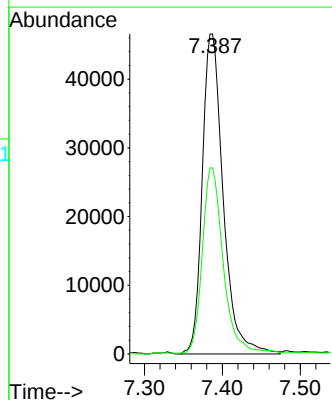
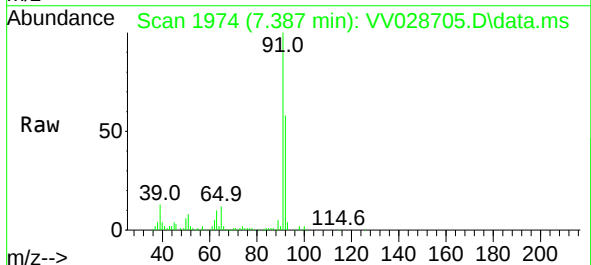
Instrument :
MSVOA_V
ClientSampleId :

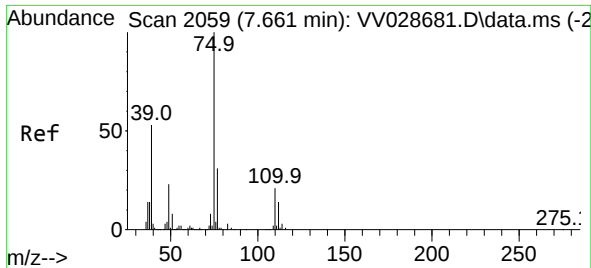
Tgt Ion: 83 Resp: 18816
Ion Ratio Lower Upper
83 100
55 99.3 70.0 105.0
98 46.5 35.6 53.4



#42
Toluene
Concen: 1.971 ug/L
RT: 7.387 min Scan# 1974
Delta R.T. -0.003 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

Tgt Ion: 91 Resp: 86829
Ion Ratio Lower Upper
91 100
92 58.1 40.5 75.3

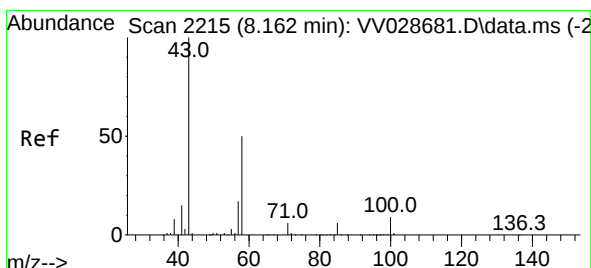
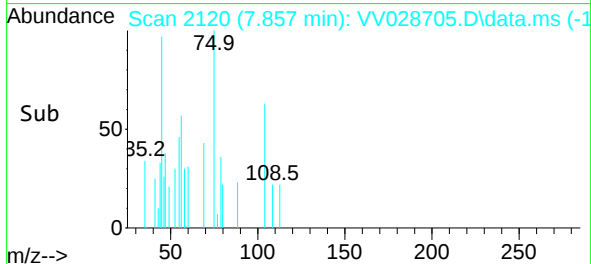
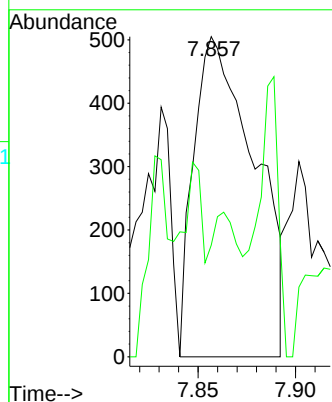
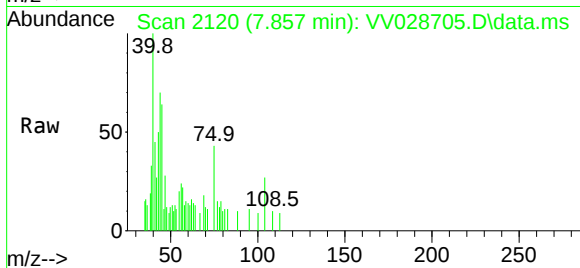




#44
trans-1,3-Dichloropropene
Concen: 0.094 ug/L
RT: 7.857 min Scan# 2189
Delta R.T. 0.196 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

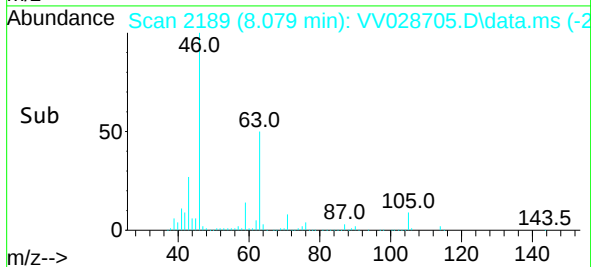
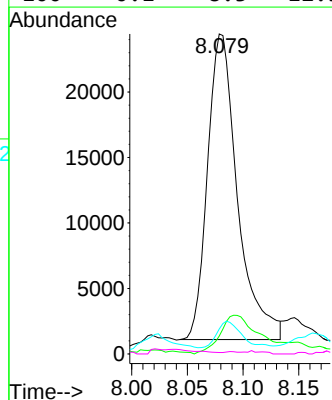
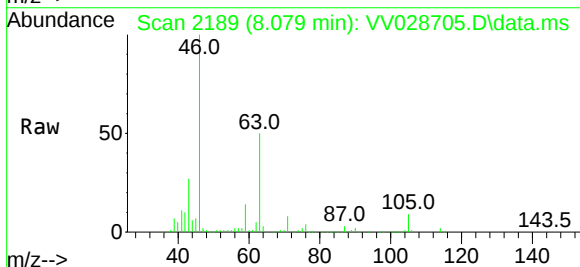
Instrument :
MSVOA_V
ClientSampleId :

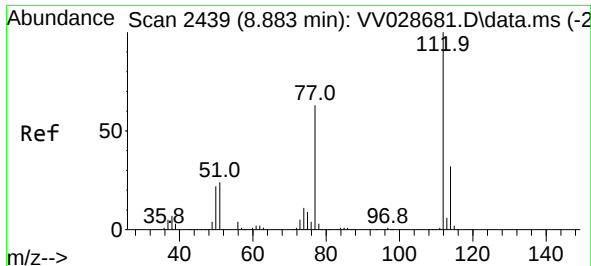
Tgt Ion: 75 Resp: 1094
Ion Ratio Lower Upper
75 100
77 34.9 22.6 42.0



#48
2-Hexanone
Concen: 8.795 ug/L
RT: 8.079 min Scan# 2189
Delta R.T. -0.084 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

Tgt Ion: 43 Resp: 43732
Ion Ratio Lower Upper
43 100
58 17.3 40.6 60.8#
57 10.9 13.8 20.8#
100 0.1 8.3 12.5#

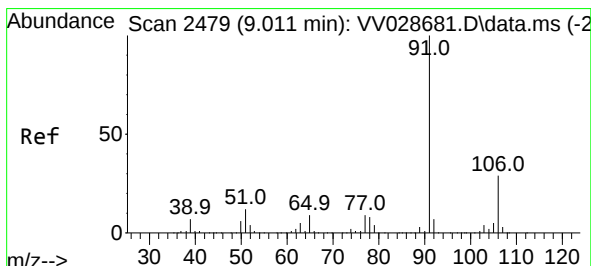
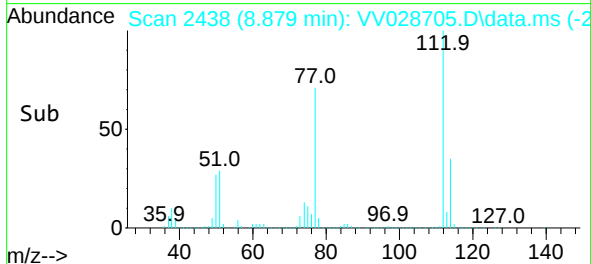
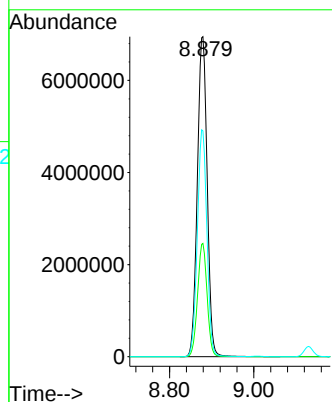
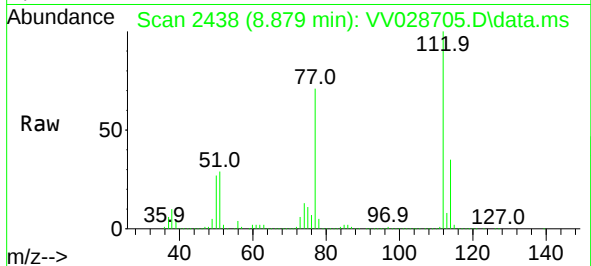




#51
Chlorobenzene
Concen: 405.529 ug/L
RT: 8.879 min Scan# 2439
Delta R.T. -0.003 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

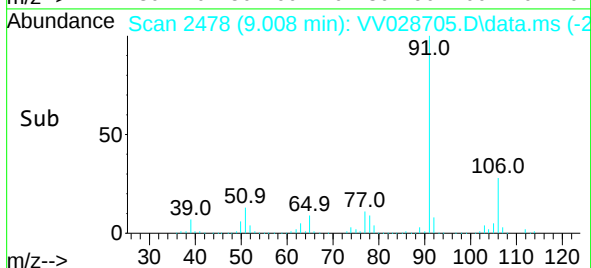
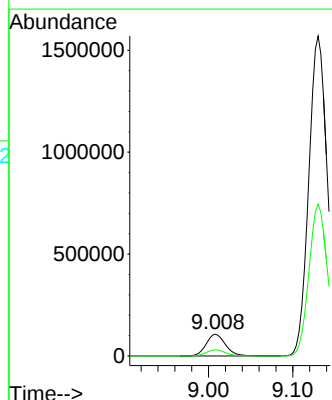
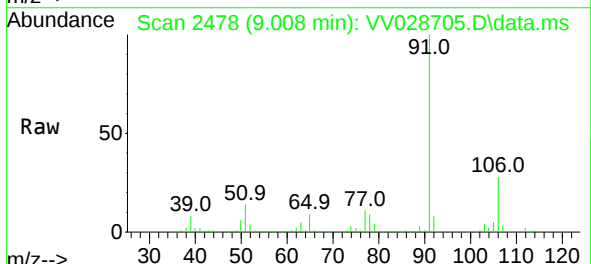
Instrument :
MSVOA_V
ClientSampleId :

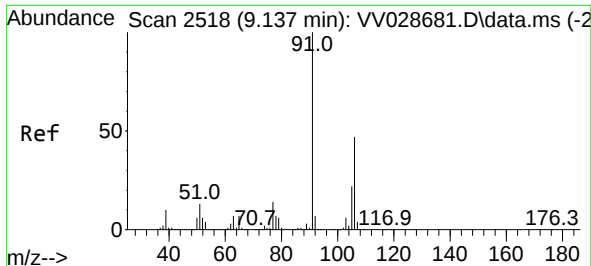
Tgt Ion:112 Resp:11248131
Ion Ratio Lower Upper
112 100
114 35.4 22.0 41.0
77 70.6 50.0 75.0



#52
Ethylbenzene
Concen: 3.490 ug/L
RT: 9.008 min Scan# 2478
Delta R.T. -0.003 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

Tgt Ion: 91 Resp: 170833
Ion Ratio Lower Upper
91 100
106 28.3 21.3 39.6

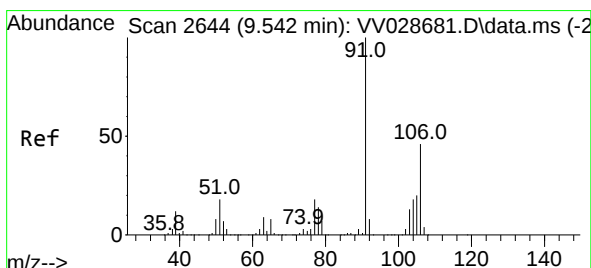
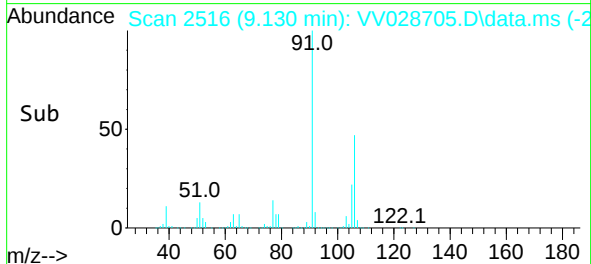
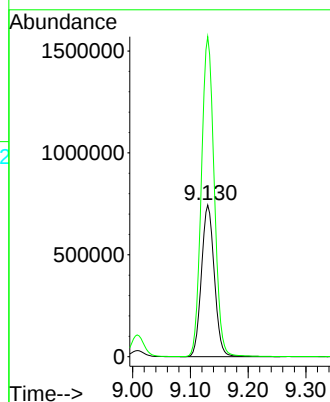
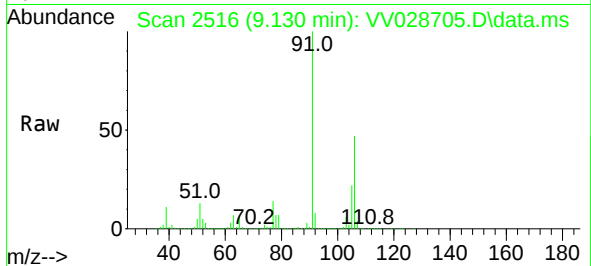




#53
m,p-Xylene
Concen: 65.166 ug/L
RT: 9.130 min Scan# 2518
Delta R.T. -0.007 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

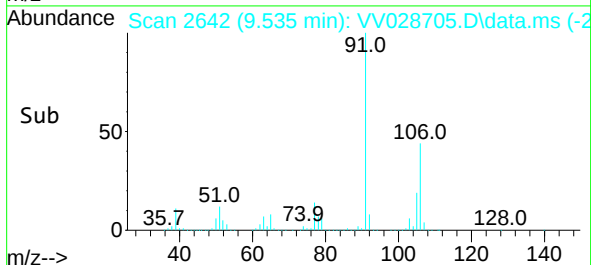
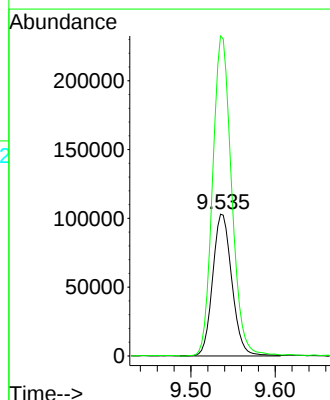
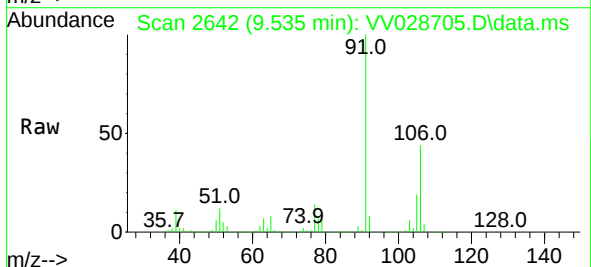
Instrument :
MSVOA_V
ClientSampleId :

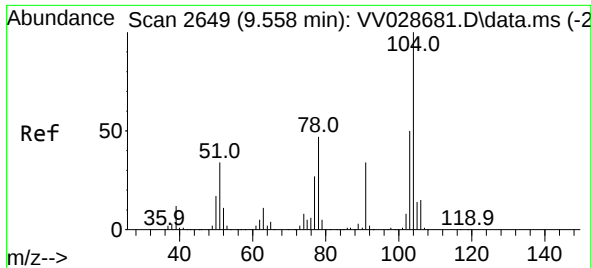
Tgt Ion:106 Resp: 1151879
Ion Ratio Lower Upper
106 100
91 210.9 145.5 270.1



#54
o-Xylene
Concen: 9.178 ug/L
RT: 9.535 min Scan# 2642
Delta R.T. -0.007 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

Tgt Ion:106 Resp: 163196
Ion Ratio Lower Upper
106 100
91 225.7 159.0 295.4

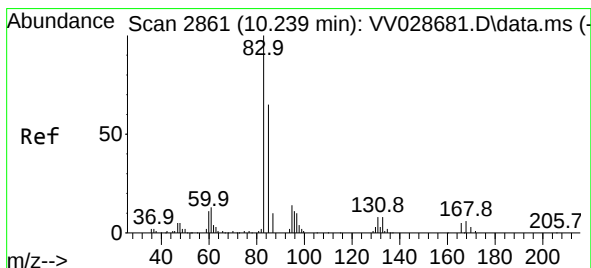
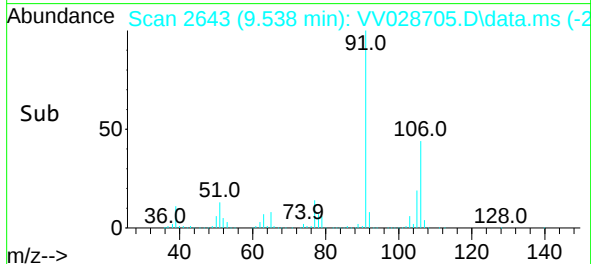
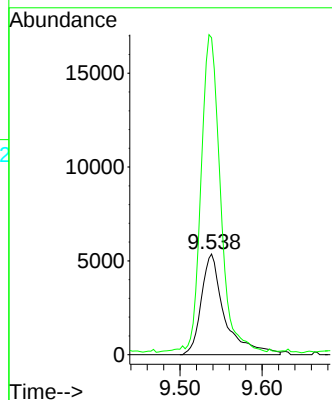
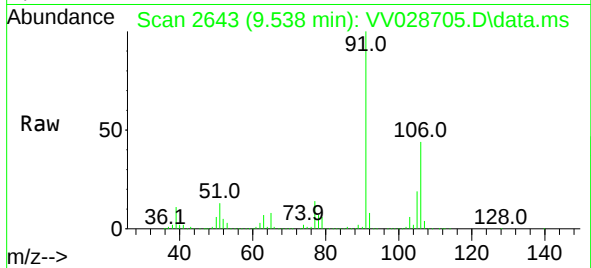




#55
Styrene
Concen: 0.352 ug/L
RT: 9.538 min Scan# 21
Delta R.T. -0.019 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

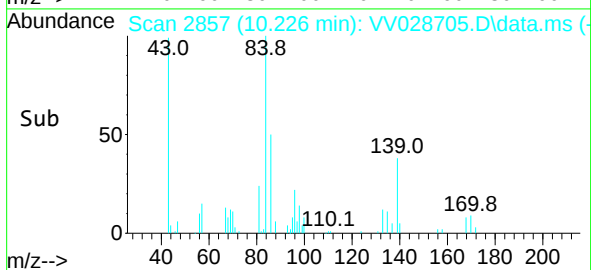
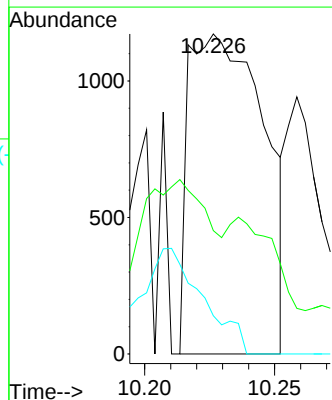
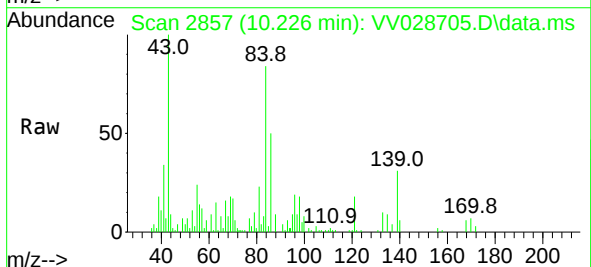
Instrument :
MSVOA_V
ClientSampleId :

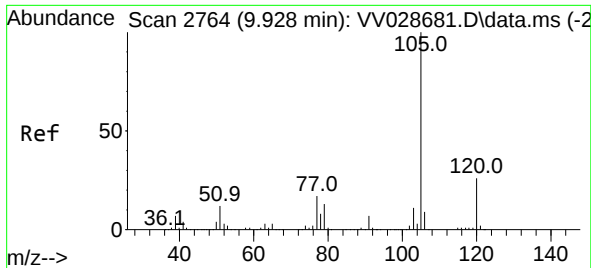
Tgt Ion:104 Resp: 10558
Ion Ratio Lower Upper
104 100
78 315.2 32.8 61.0#



#57
1,1,2,2-Tetrachloroethane
Concen: 0.257 ug/L
RT: 10.226 min Scan# 2857
Delta R.T. -0.013 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

Tgt Ion: 83 Resp: 2349
Ion Ratio Lower Upper
83 100
85 38.6 43.0 80.0#
131 11.9 6.5 9.7#

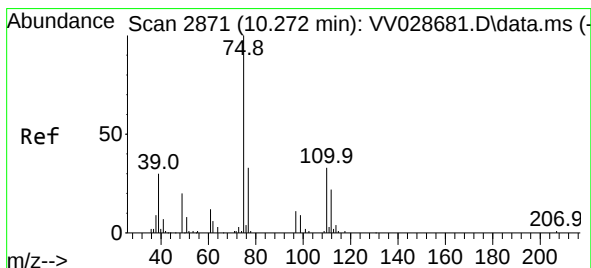
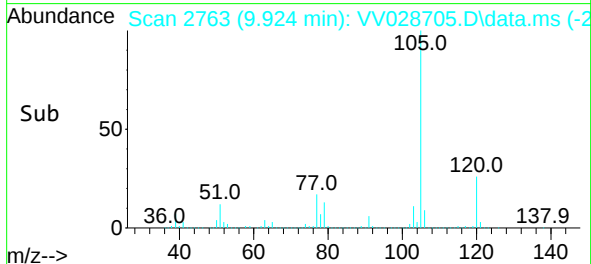
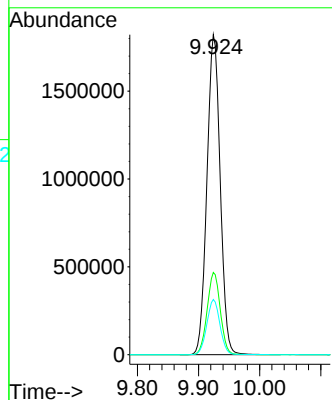
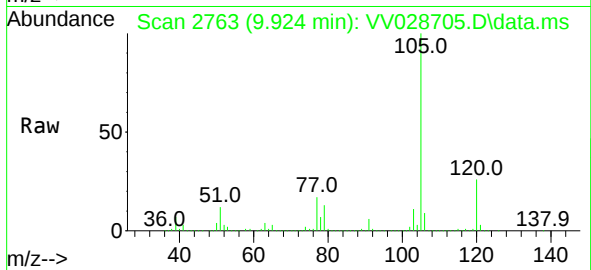




#60
Isopropylbenzene
Concen: 56.566 ug/L
RT: 9.924 min Scan# 2763
Delta R.T. -0.003 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

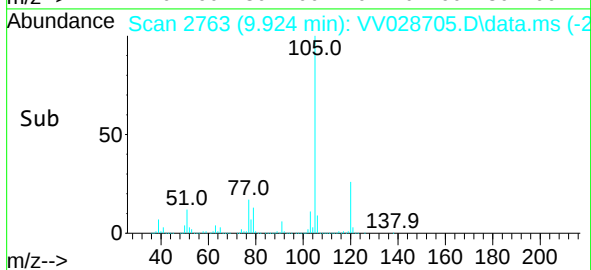
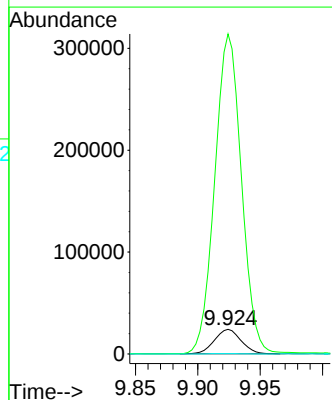
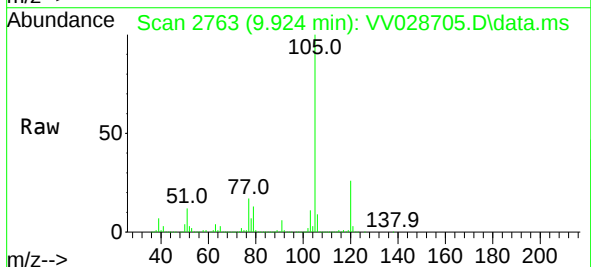
Instrument :
MSVOA_V
ClientSampleId :

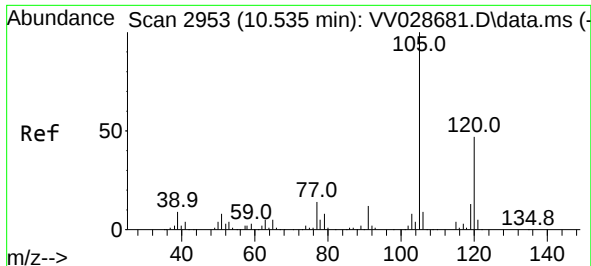
Tgt Ion:105 Resp: 2737362
Ion Ratio Lower Upper
105 100
120 25.5 20.1 30.1
77 17.2 13.4 20.0



#61
1,2,3-Trichloropropane
Concen: 5.381 ug/L
RT: 9.924 min Scan# 2763
Delta R.T. -0.347 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

Tgt Ion: 75 Resp: 35529
Ion Ratio Lower Upper
75 100
77 1322.6 25.2 37.8#
110 0.0 27.9 41.9#





#62

1,3,5-Trimethylbenzene

Concen: 8.491 ug/L

RT: 10.532 min Scan# 2953

Delta R.T. -0.003 min

Lab File: VV028705.D

Acq: 26 Oct 2022 19:40

Instrument :

MSVOA_V

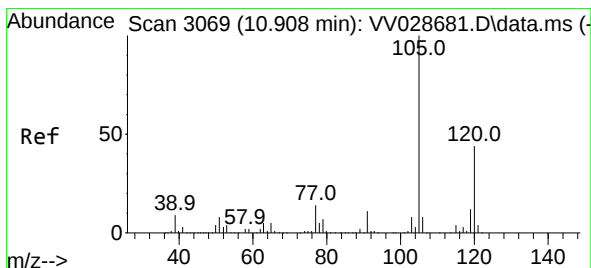
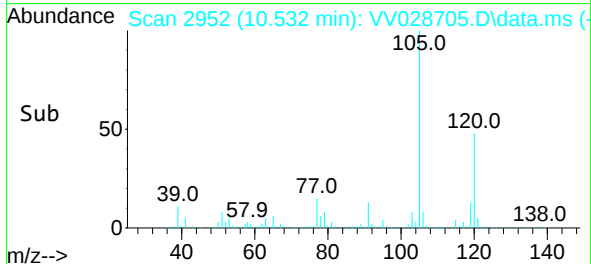
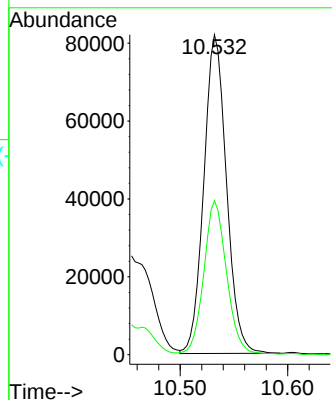
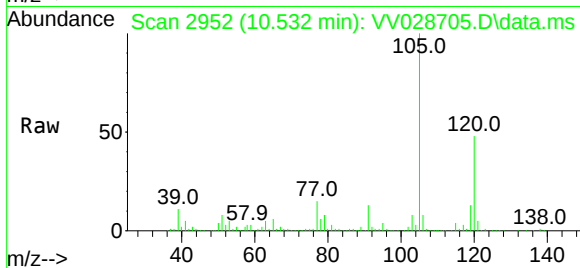
ClientSampleId :

Tgt Ion:105 Resp: 119872

Ion Ratio Lower Upper

105 100

120 48.3 38.3 57.5



#63

1,2,4-Trimethylbenzene

Concen: 13.833 ug/L

RT: 10.905 min Scan# 3068

Delta R.T. -0.003 min

Lab File: VV028705.D

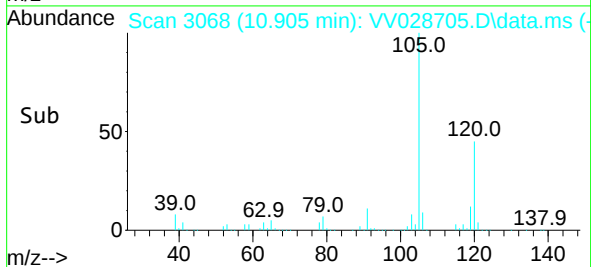
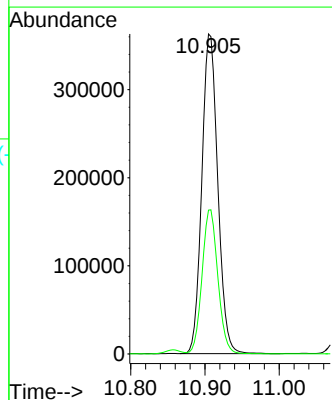
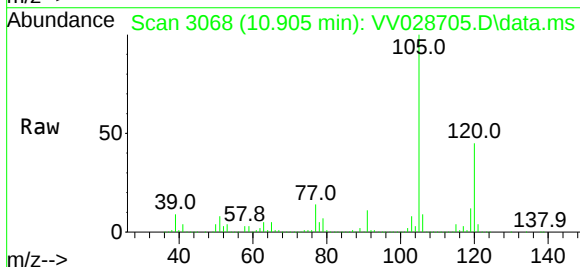
Acq: 26 Oct 2022 19:40

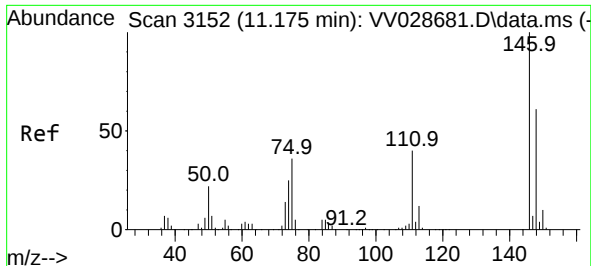
Tgt Ion:105 Resp: 540782

Ion Ratio Lower Upper

105 100

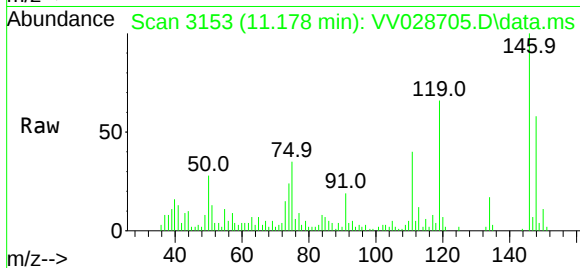
120 44.7 36.2 54.2



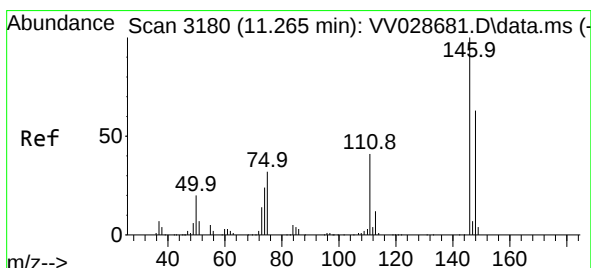
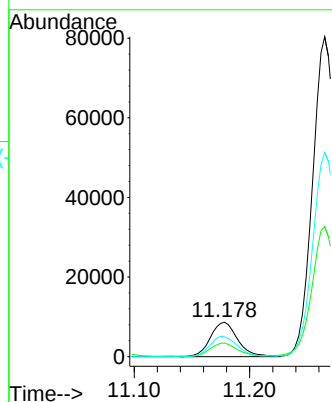
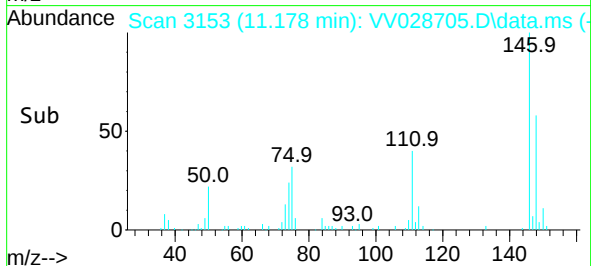


#64
1,3-Dichlorobenzene
Concen: 0.679 ug/L
RT: 11.178 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40

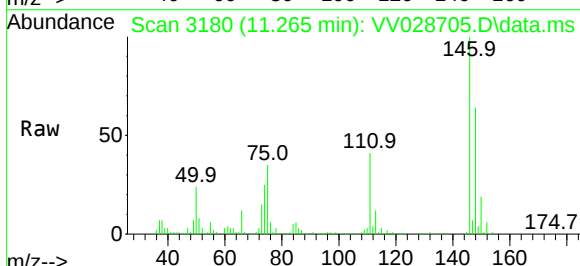
Instrument :
MSVOA_V
ClientSampleId :



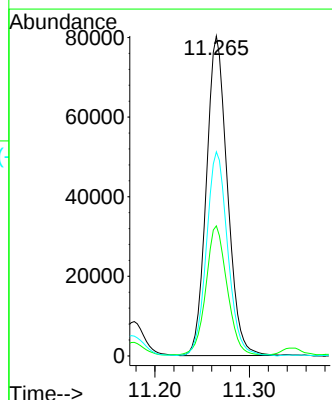
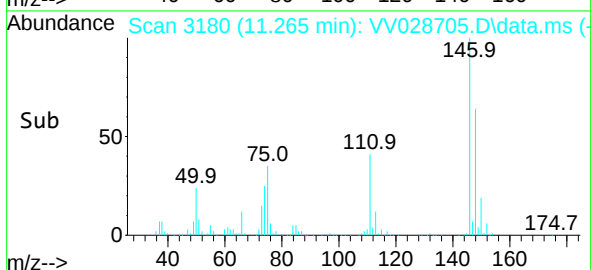
Tgt Ion:146 Resp: 14159
Ion Ratio Lower Upper
146 100
111 39.7 29.0 53.9
148 57.9 44.5 82.7

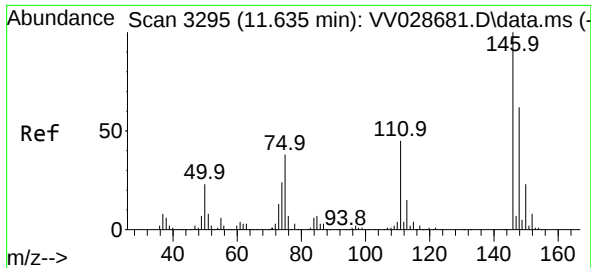


#65
1,4-Dichlorobenzene
Concen: 5.953 ug/L
RT: 11.265 min Scan# 3180
Delta R.T. -0.000 min
Lab File: VV028705.D
Acq: 26 Oct 2022 19:40



Tgt Ion:146 Resp: 123803
Ion Ratio Lower Upper
146 100
111 40.7 28.6 53.2
148 63.8 44.3 82.3





#67

1,2-Dichlorobenzene

Concen: 3.584 ug/L

RT: 11.635 min Scan# 3295

Delta R.T. -0.000 min

Lab File: VV028705.D

Acq: 26 Oct 2022 19:40

Instrument :

MSVOA_V

ClientSampleId :

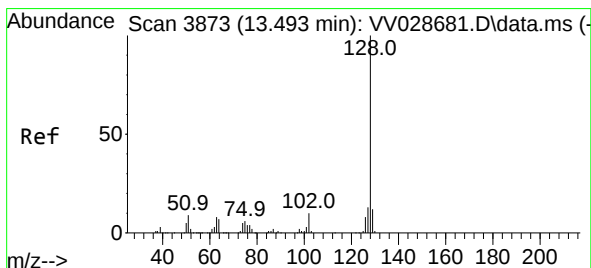
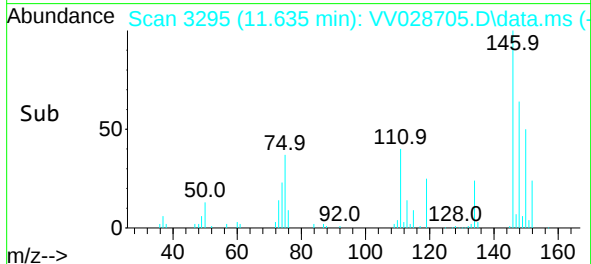
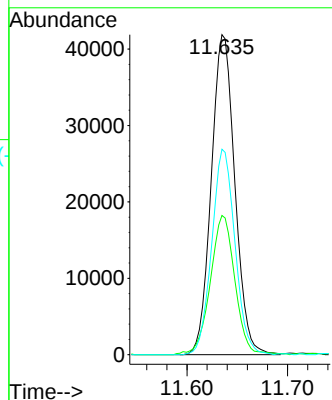
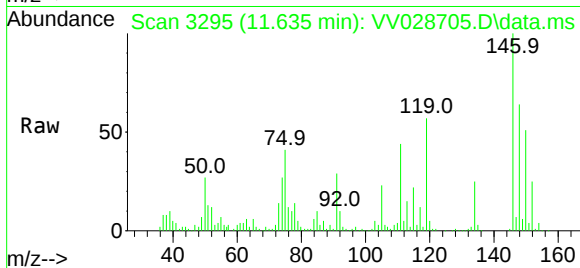
Tgt Ion:146 Resp: 68305

Ion Ratio Lower Upper

146 100

111 43.5 36.2 54.4

148 64.2 50.6 75.8



#71

Naphthalene

Concen: 9.800 ug/L

RT: 13.493 min Scan# 3873

Delta R.T. -0.000 min

Lab File: VV028705.D

Acq: 26 Oct 2022 19:40

Tgt Ion:128 Resp: 202381

Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

127 12.6 10.2 15.4

