

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW041223\
 Data File : VW030530.D
 Acq On : 12 Apr 2023 20:15
 Operator : SY/MD
 Sample : 02275-13
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BHDZ8

Quant Time: Apr 13 02:53:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR032323WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Apr 13 02:44:31 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Difluorobenzene	5.545	114	109868	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.792	117	106196	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.194	152	53517	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.281	65	47195	6.486	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	129.800%
7) Chloroethane-d5	1.535	69	35563	5.036	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	100.800%
11) 1,1-Dichloroethene-d2	2.069	63	150762	8.731	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	174.600%#
20) 2-Butanone-d5	3.812	46	99865	53.097	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	106.200%
24) Chloroform-d	4.259	84	78809	4.475	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.400%
26) 1,2-Dichloroethane-d4	4.953	65	41255	4.965	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.200%
32) Benzene-d6	4.969	84	142340	4.757	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.200%
36) 1,2-Dichloropropane-d6	5.998	67	45799	4.888	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.800%
41) Toluene-d8	7.252	98	124431	4.528	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.600%
43) trans-1,3-Dichloroprop...	7.564	79	16150	4.578	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	91.600%
46) 2-Hexanone-d5	8.034	63	70151	49.492	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.980%
56) 1,1,2,2-Tetrachloroeth...	10.162	84	32299	4.374	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	87.400%
66) 1,2-Dichlorobenzene-d4	11.570	152	47622	4.979	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.600%
Target Compounds						
					Qvalue	
3) Chloromethane	1.217	50	1683	0.095	ug/L	95
5) Vinyl chloride	1.285	62	124484	9.688	ug/L	98
6) Bromomethane	1.490	94	413	0.113	ug/L	79
8) Chloroethane	1.285	64	40632	5.521	ug/L #	46
10) 1,1,2-Trichloro-1,2,2-...	2.069	101	1316	0.127	ug/L #	37
12) 1,1-Dichloroethene	2.072	96	145701	15.872	ug/L #	80
15) Methyl Acetate	2.478	43	6689	2.081	ug/L #	47
17) Methyl tert-butyl Ether	2.716	73	7409	0.381	ug/L #	26
18) trans-1,2-Dichloroethene	2.699	96	15782	1.632	ug/L	93
19) 1,1-Dichloroethane	3.121	63	118820	6.338	ug/L	98
22) cis-1,2-Dichloroethene	3.822	96	2657643	273.817	ug/L #	97
25) Chloroform	4.288	83	42988	2.269	ug/L	97
27) 1,2-Dichloroethane	5.056	62	13418	1.171	ug/L	98
29) 1,1,1-Trichloroethane	4.523	97	76273	4.469	ug/L	97
30) Cyclohexane	4.596	56	4531	0.291	ug/L	91
31) Carbon tetrachloride	4.748	117	4456	0.288	ug/L	98
33) Benzene	5.021	78	183946	4.877	ug/L	100
34) Trichloroethene	5.847	95	9385435	922.607	ug/L	94
35) Methylcyclohexane	6.063	83	5089	0.319	ug/L #	65

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

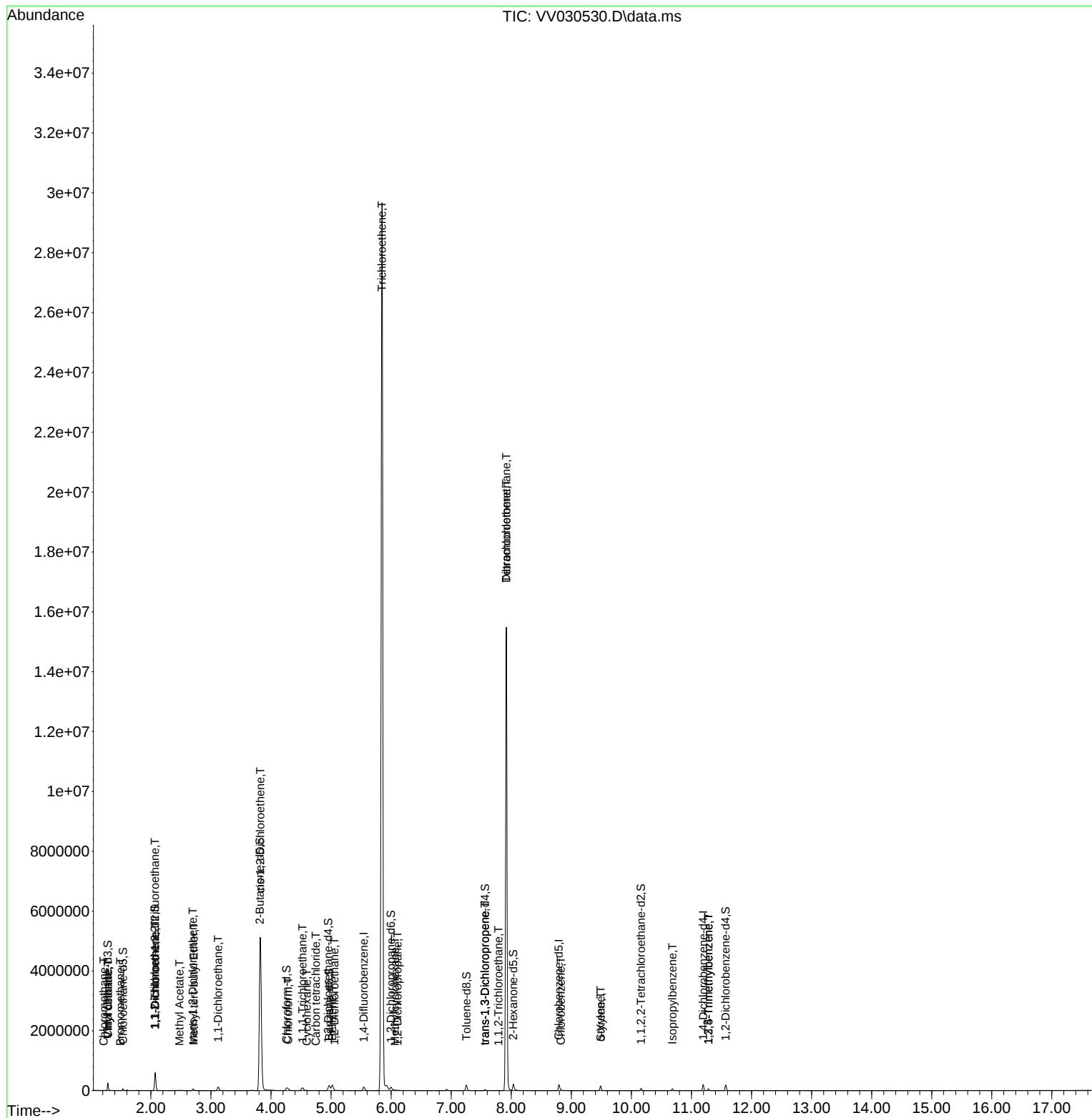
37) 1,2-Dichloropropane	6.108	63	1844	0.190	ug/L	98
44) trans-1,3-Dichloropropene	7.561	75	971	0.084	ug/L #	50
45) 1,1,2-Trichloroethane	7.786	97	2152	0.316	ug/L	98
47) Tetrachloroethene	7.918	164	3052244	339.971	ug/L	93
49) Dibromochloromethane	7.918	129	2832535	349.003	ug/L #	12
51) Chlorobenzene	8.825	112	16820	0.654	ug/L	98
54) o-Xylene	9.487	106	40107	2.491	ug/L	99
55) Styrene	9.487	104	3075	0.112	ug/L #	1
60) Isopropylbenzene	10.683	105	35413	0.897	ug/L	91
62) 1,3,5-Trimethylbenzene	11.281	105	30567	0.949	ug/L	93
63) 1,2,4-Trimethylbenzene	11.281	105	30567	0.931	ug/L	97

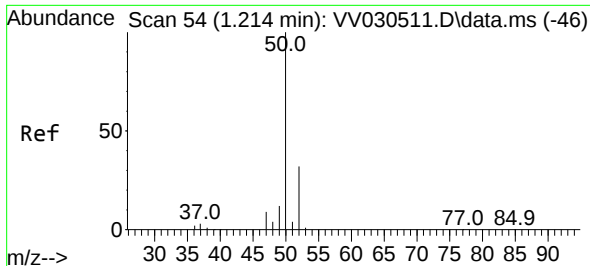
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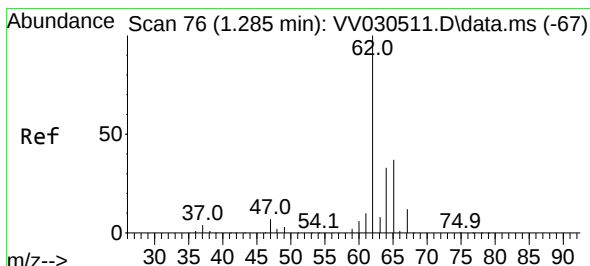
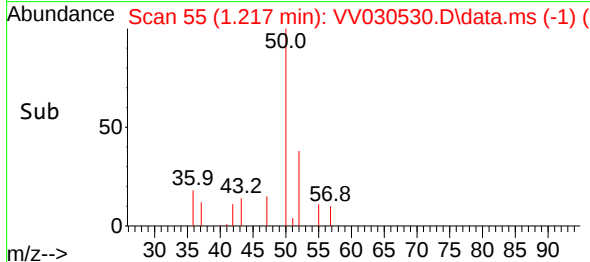
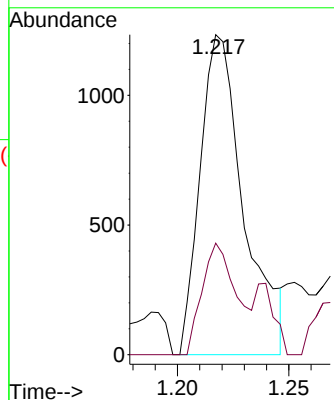
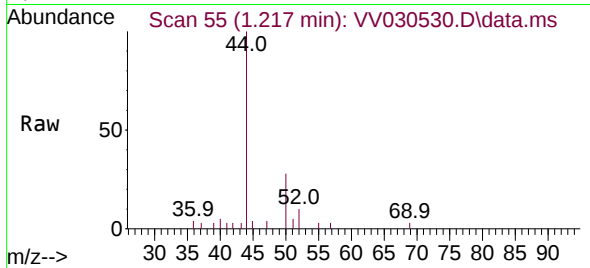




#3
Chloromethane
Concen: 0.095 ug/L
RT: 1.217 min Scan# 51
Delta R.T. 0.003 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

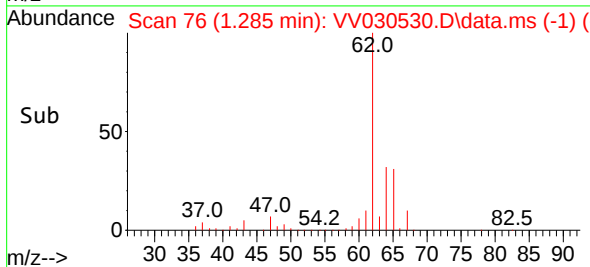
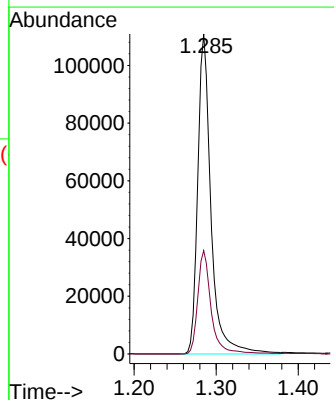
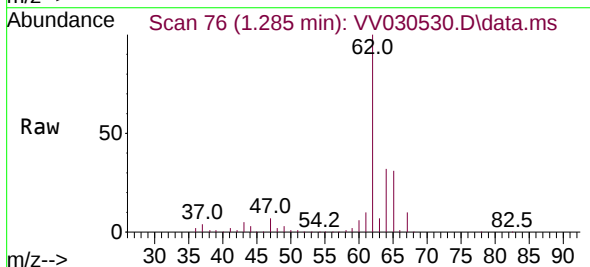
Instrument :
MSVOA_V
ClientSampleId :
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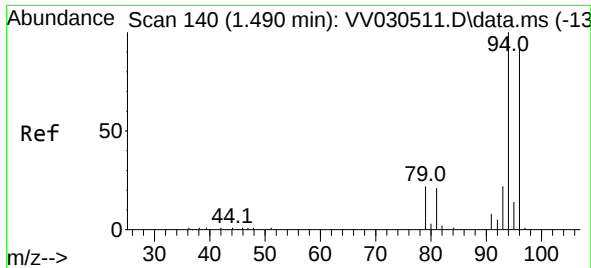
Tgt Ion: 50 Resp: 1683
Ion Ratio Lower Upper
50 100
52 34.8 22.3 41.5



#5
Vinyl chloride
Concen: 9.688 ug/L
RT: 1.285 min Scan# 76
Delta R.T. 0.000 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

Tgt Ion: 62 Resp: 124484
Ion Ratio Lower Upper
62 100
64 32.3 23.2 43.2

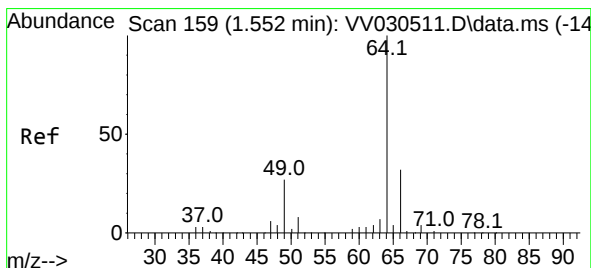
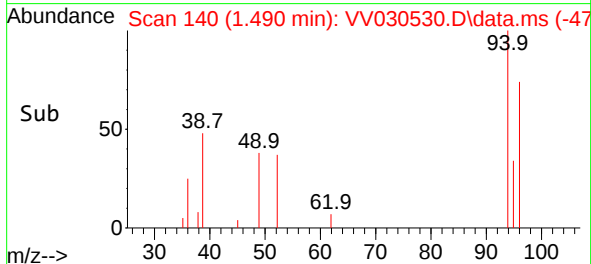
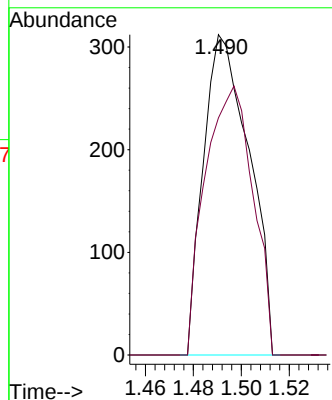
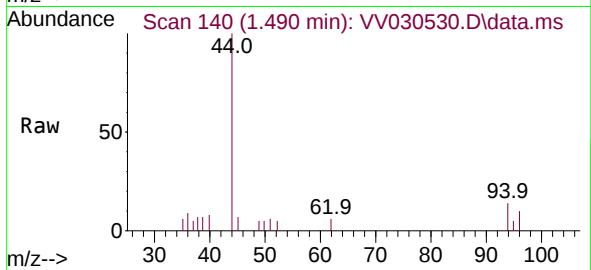




#6
Bromomethane
Concen: 0.113 ug/L
RT: 1.490 min Scan# 14
Delta R.T. 0.000 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

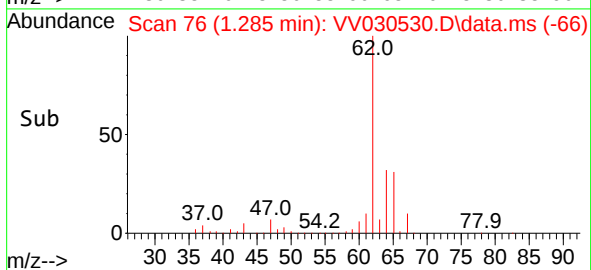
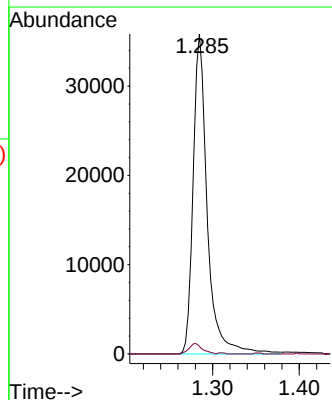
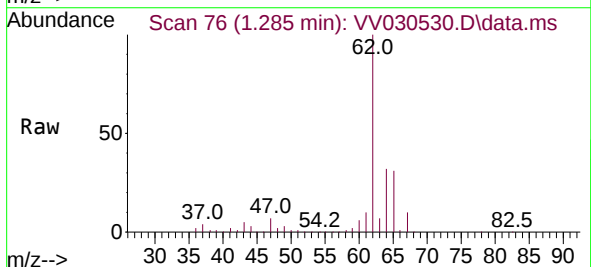
Instrument :
MSVOA_V
ClientSampleId :
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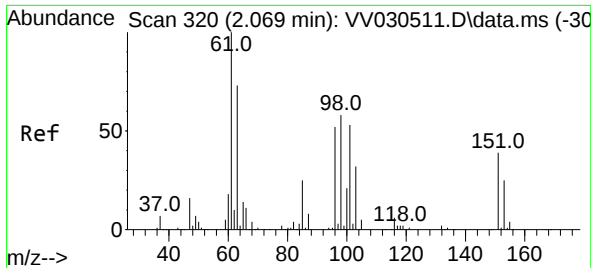
Tgt Ion: 94 Resp: 413
Ion Ratio Lower Upper
94 100
96 74.0 66.1 122.7



#8
Chloroethane
Concen: 5.521 ug/L
RT: 1.285 min Scan# 76
Delta R.T. -0.267 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

Tgt Ion: 64 Resp: 40632
Ion Ratio Lower Upper
64 100
66 2.3 23.0 42.8#

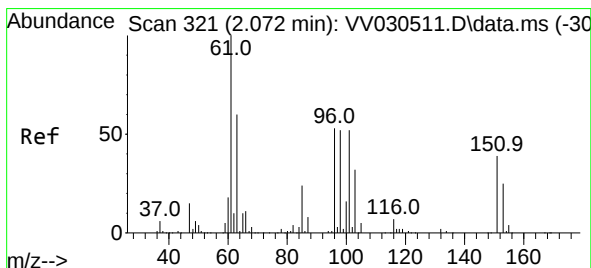
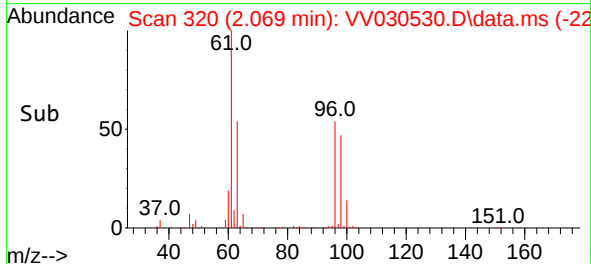
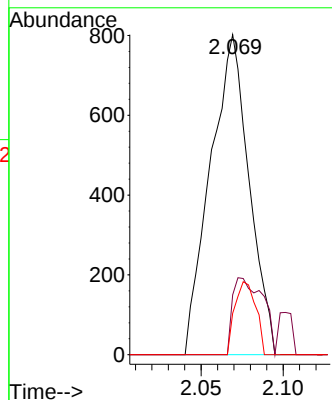
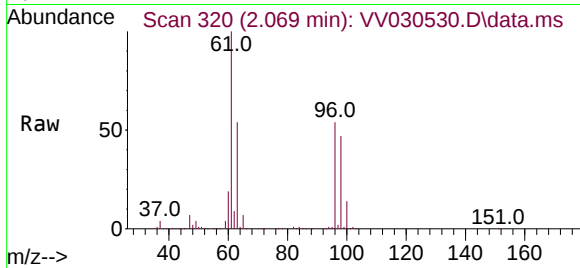




#10
 1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.127 ug/L
 RT: 2.069 min Scan# 310
 Delta R.T. 0.000 min
 Lab File: VV030530.D
 Acq: 12 Apr 2023 20:15

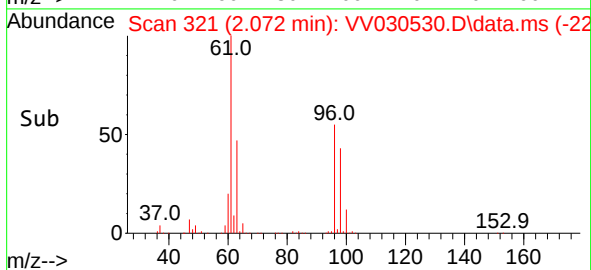
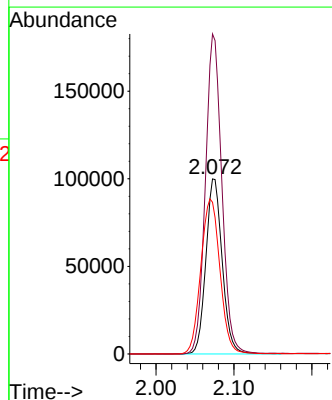
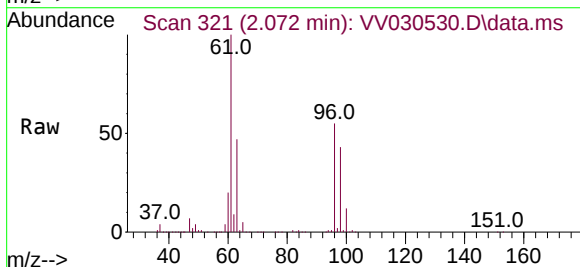
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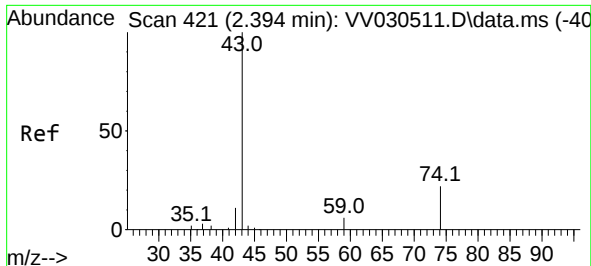
Tgt Ion:101 Resp: 1316
 Ion Ratio Lower Upper
 101 100
 85 18.7 38.1 57.1#
 151 12.3 62.7 94.1#



#12
 1,1-Dichloroethene
 Concen: 15.872 ug/L
 RT: 2.072 min Scan# 321
 Delta R.T. 0.000 min
 Lab File: VV030530.D
 Acq: 12 Apr 2023 20:15

Tgt Ion: 96 Resp: 145701
 Ion Ratio Lower Upper
 96 100
 61 182.8 136.3 253.1
 63 86.6 92.1 171.1#

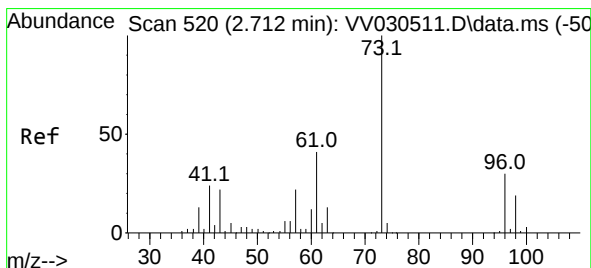
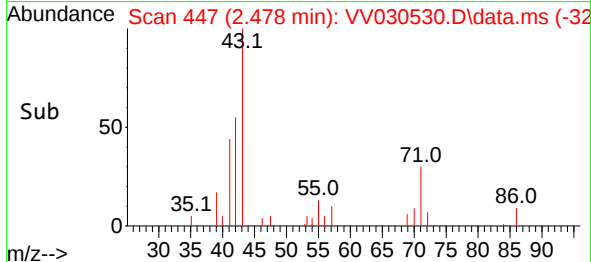
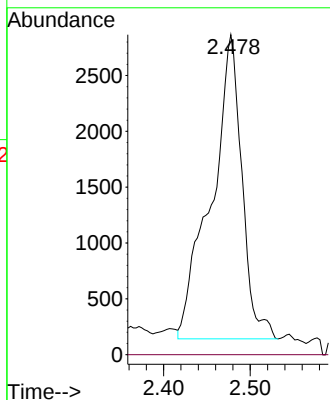
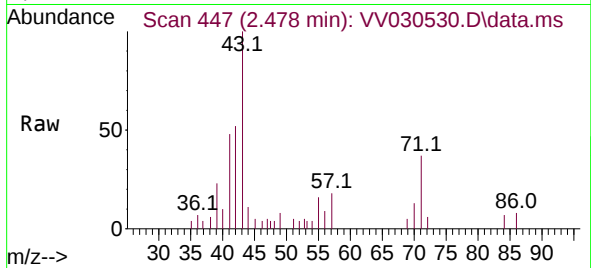




#15
Methyl Acetate
Concen: 2.081 ug/L
RT: 2.478 min Scan# 447
Delta R.T. 0.084 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

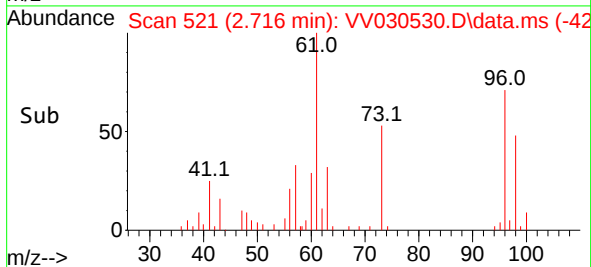
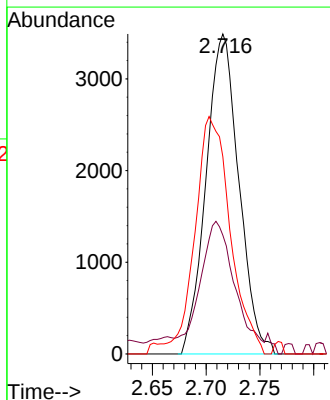
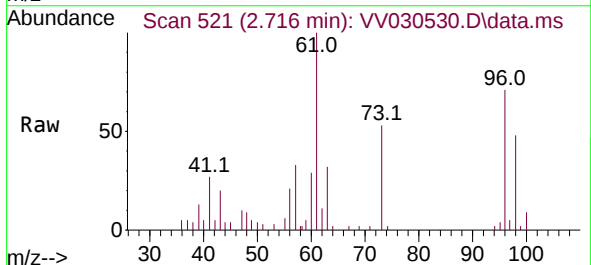
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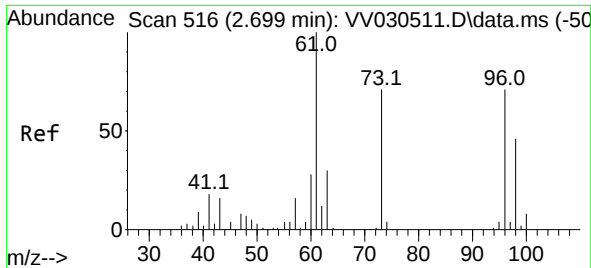
Tgt Ion: 43 Resp: 6689
Ion Ratio Lower Upper
43 100
74 0.0 22.1 33.1#



#17
Methyl tert-butyl Ether
Concen: 0.381 ug/L
RT: 2.716 min Scan# 521
Delta R.T. 0.003 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

Tgt Ion: 73 Resp: 7409
Ion Ratio Lower Upper
73 100
43 36.1 17.4 26.2#
57 79.4 18.3 27.5#

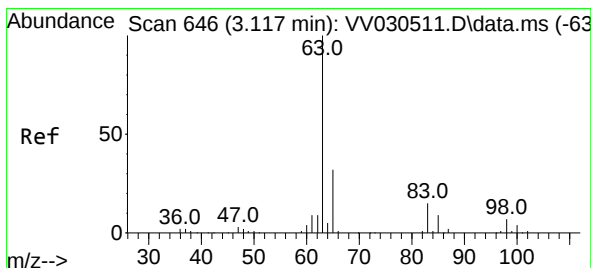
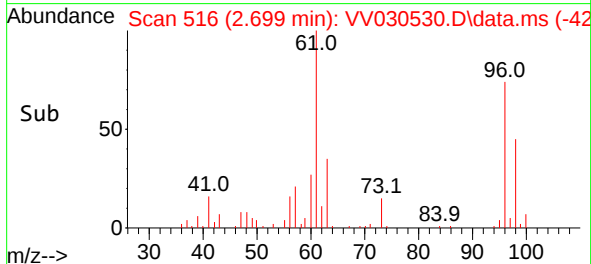
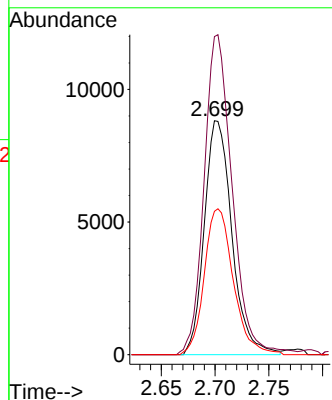
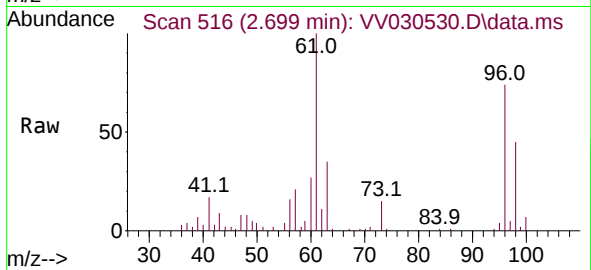




#18
trans-1,2-Dichloroethene
Concen: 1.632 ug/L
RT: 2.699 min Scan# 516
Delta R.T. 0.000 min
Lab File: VV030530.D
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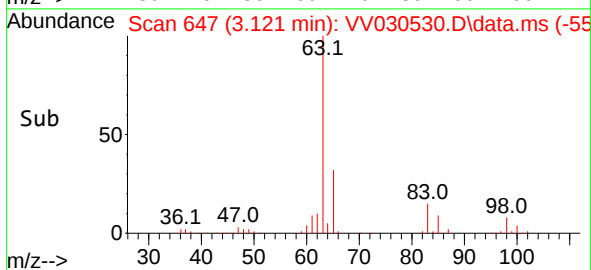
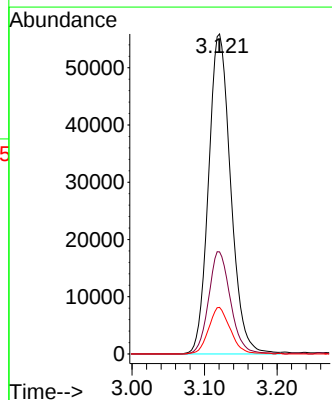
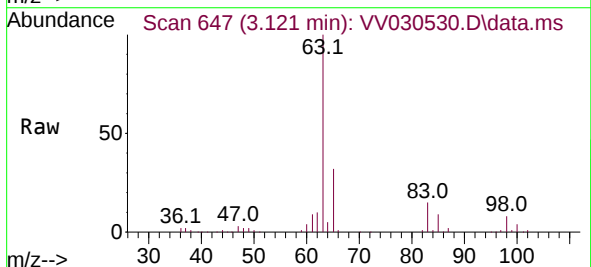
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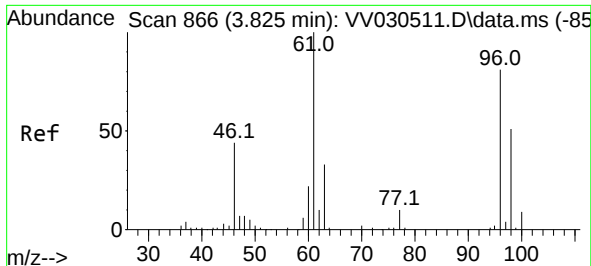
Tgt Ion: 96 Resp: 15782
Ion Ratio Lower Upper
96 100
61 136.0 101.7 188.9
98 61.3 45.8 85.2



#19
1,1-Dichloroethane
Concen: 6.338 ug/L
RT: 3.121 min Scan# 647
Delta R.T. 0.003 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

Tgt Ion: 63 Resp: 118820
Ion Ratio Lower Upper
63 100
65 31.9 21.7 40.3
83 14.6 9.1 16.9





#22

cis-1,2-Dichloroethene

Concen: 273.817 ug/L

RT: 3.822 min Scan# 80

Delta R.T. -0.003 min

Lab File: VV030530.D

Acq: 12 Apr 2023 20:15

Instrument :

MSVOA_V

ClientSampleId :

BHDZ8

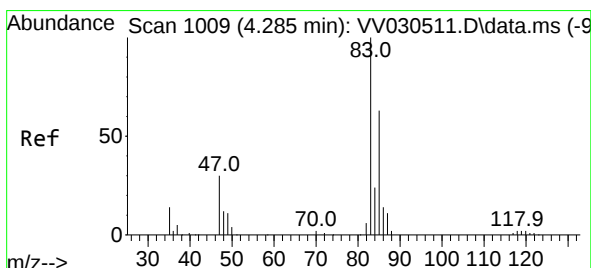
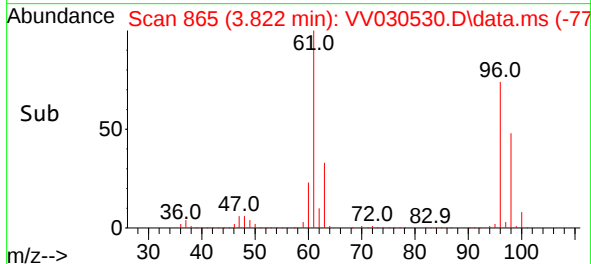
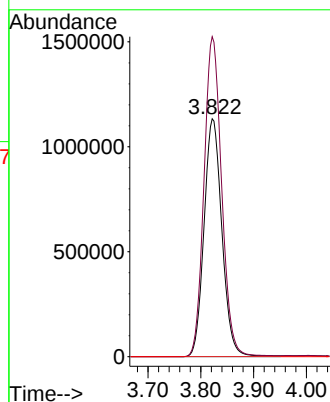
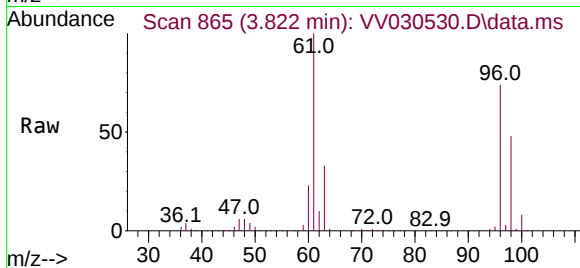
Tgt Ion: 96 Resp: 2657643

Ion Ratio Lower Upper

96 100

61 134.5 92.0 170.8

68 0.0 0.0 0.0#



#25

Chloroform

Concen: 2.269 ug/L

RT: 4.288 min Scan# 1010

Delta R.T. 0.003 min

Lab File: VV030530.D

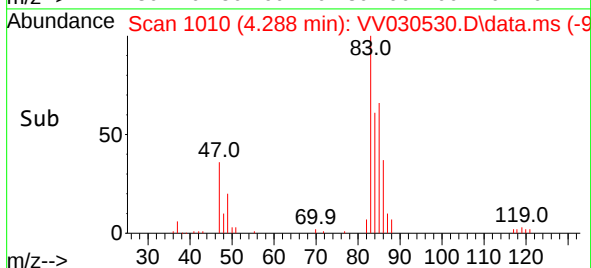
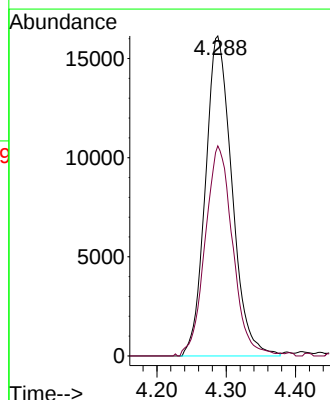
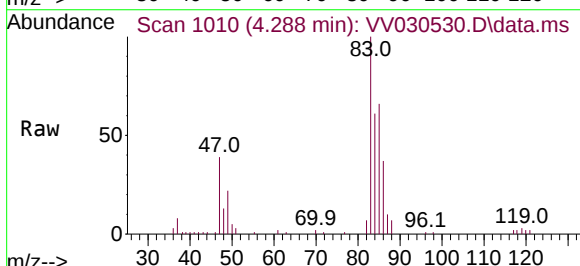
Acq: 12 Apr 2023 20:15

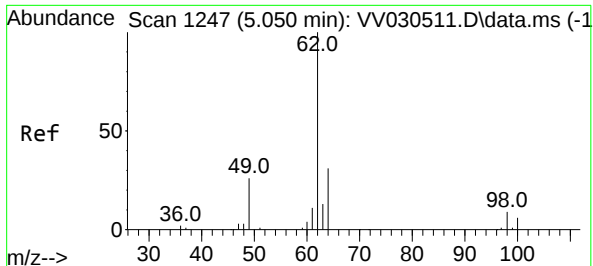
Tgt Ion: 83 Resp: 42988

Ion Ratio Lower Upper

83 100

85 65.6 47.6 88.4

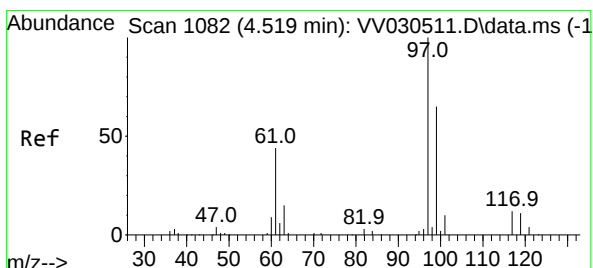
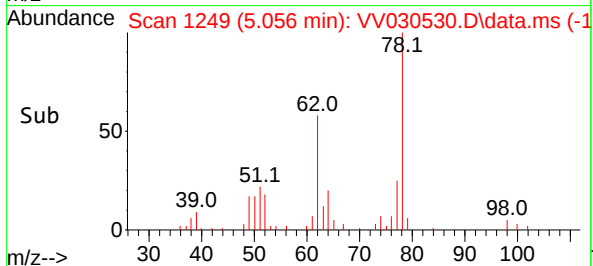
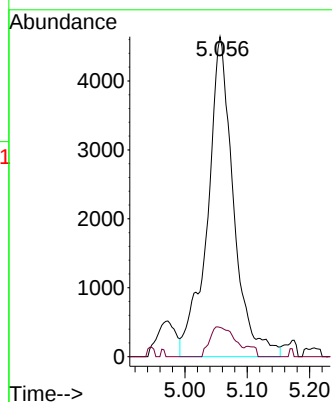
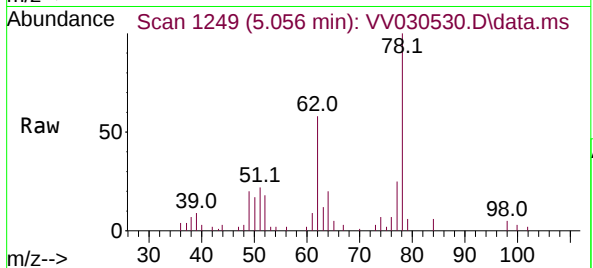




#27
1,2-Dichloroethane
Concen: 1.171 ug/L
RT: 5.056 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

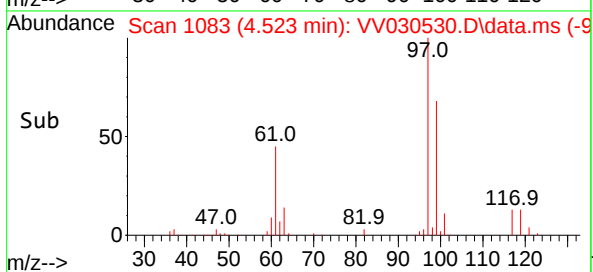
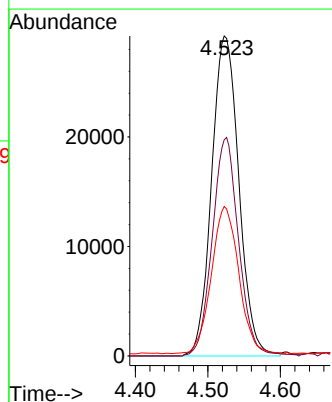
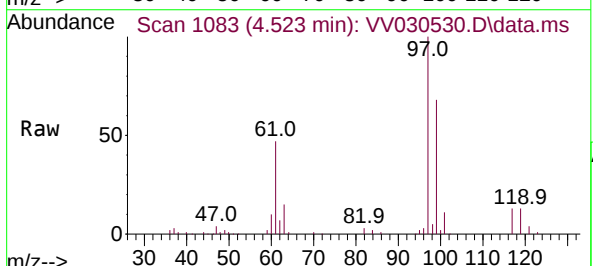
Instrument :
MSVOA_V
ClientSampleId :
BHDZ8

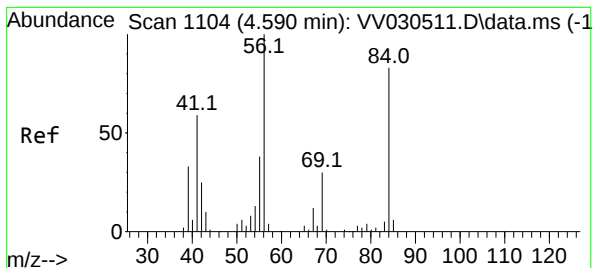
Tgt Ion: 62 Resp: 13418
Ion Ratio Lower Upper
62 100
98 9.2 7.8 11.8



#29
1,1,1-Trichloroethane
Concen: 4.469 ug/L
RT: 4.523 min Scan# 1083
Delta R.T. 0.003 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

Tgt Ion: 97 Resp: 76273
Ion Ratio Lower Upper
97 100
99 66.0 50.9 76.3
61 46.6 35.9 53.9





#30

Cyclohexane

Concen: 0.291 ug/L

RT: 4.596 min Scan# 1106

Delta R.T. 0.006 min

Lab File: VV030530.D

Acq: 12 Apr 2023 20:15

Instrument :

MSVOA_V

ClientSampleId :

BHDZ8

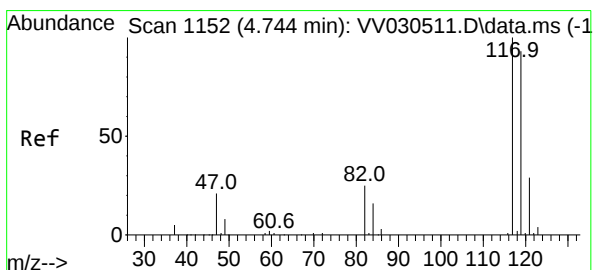
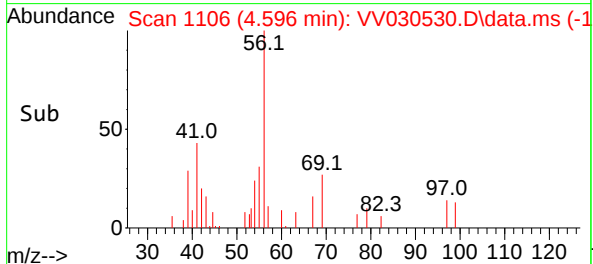
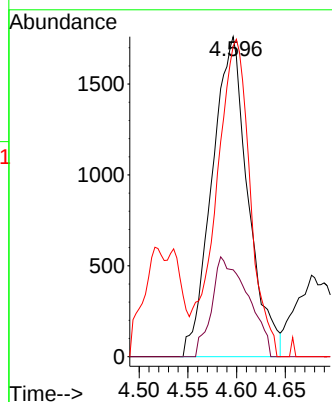
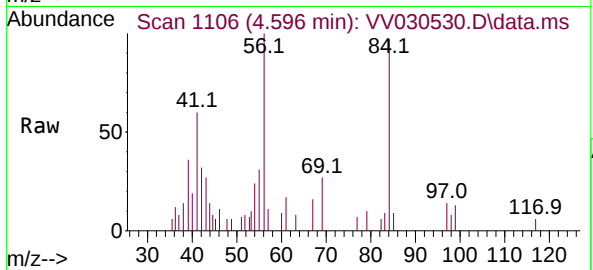
Tgt Ion: 56 Resp: 4531

Ion Ratio Lower Upper

56 100

69 31.2 24.2 36.2

84 93.3 66.6 100.0



#31

Carbon tetrachloride

Concen: 0.288 ug/L

RT: 4.748 min Scan# 1153

Delta R.T. 0.003 min

Lab File: VV030530.D

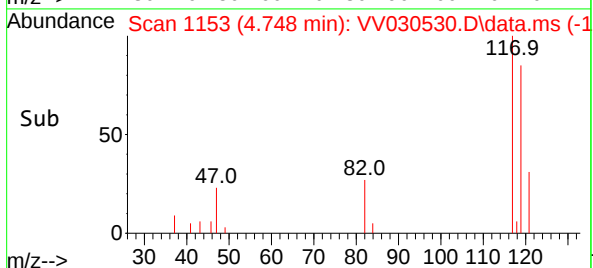
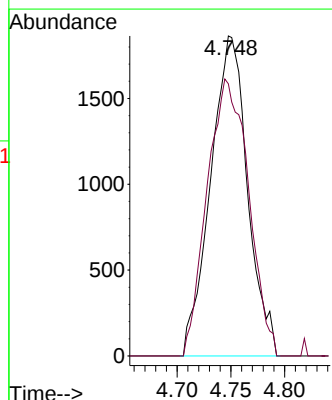
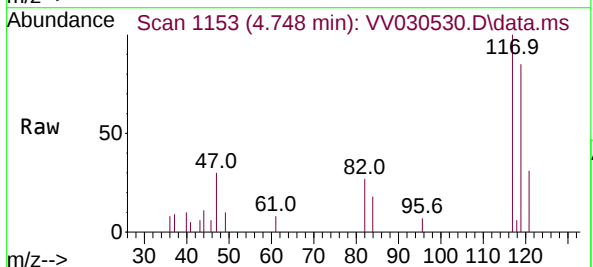
Acq: 12 Apr 2023 20:15

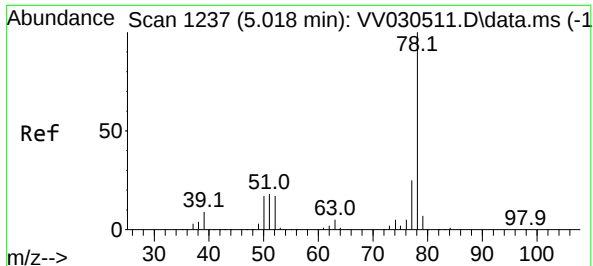
Tgt Ion: 117 Resp: 4456

Ion Ratio Lower Upper

117 100

119 97.0 76.2 114.4

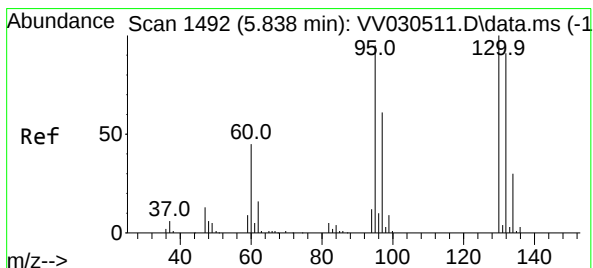
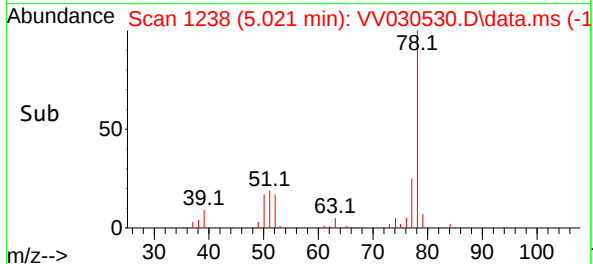
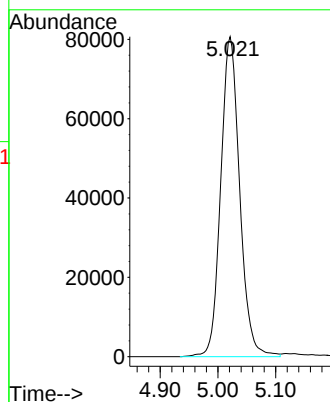
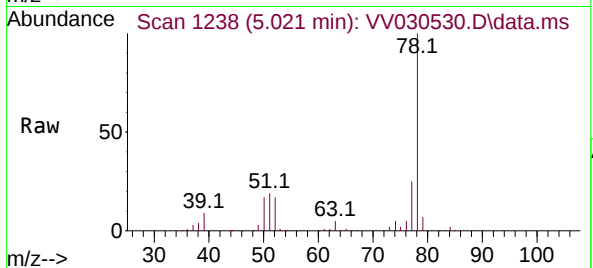




#33
Benzene
Concen: 4.877 ug/L
RT: 5.021 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

Instrument :
MSVOA_V
ClientSampleId :
BHDZ8

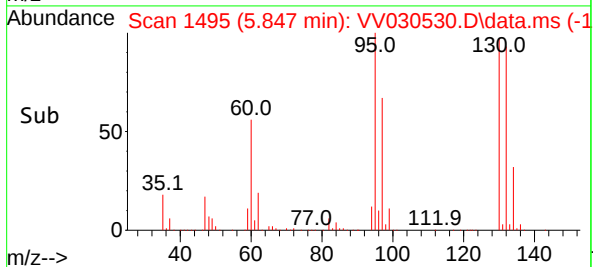
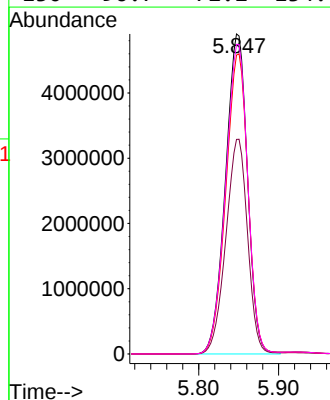
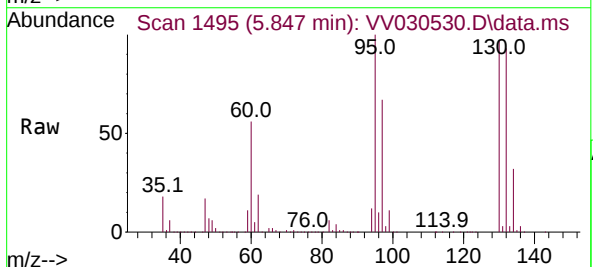
Tgt Ion: 78 Resp: 183946

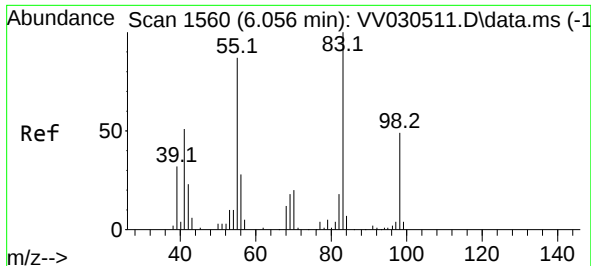


#34
Trichloroethene
Concen: 922.607 ug/L
RT: 5.847 min Scan# 1495
Delta R.T. 0.010 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

Tgt Ion: 95 Resp: 9385435

Ion	Ratio	Lower	Upper
95	100		
97	67.0	44.2	82.2
132	93.4	69.5	129.1
130	96.7	72.2	134.0

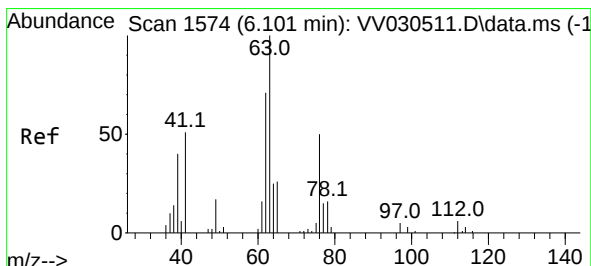
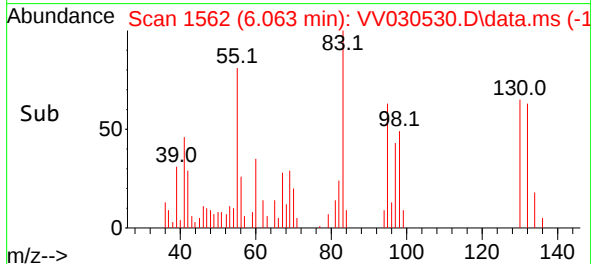
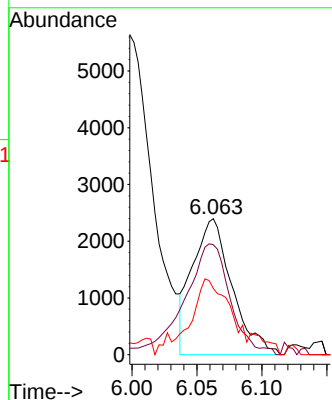
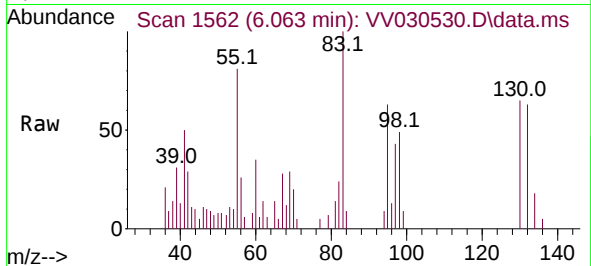




#35
Methylcyclohexane
Concen: 0.319 ug/L
RT: 6.063 min Scan# 1560
Delta R.T. 0.006 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

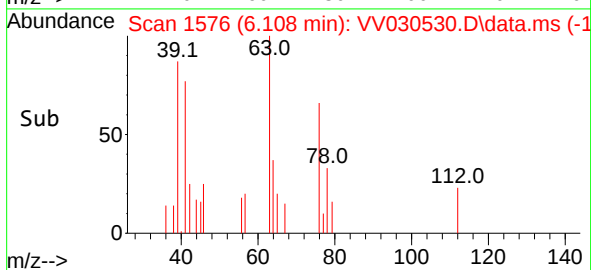
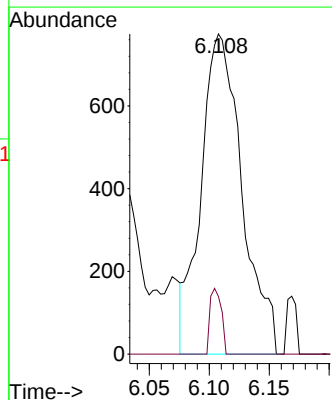
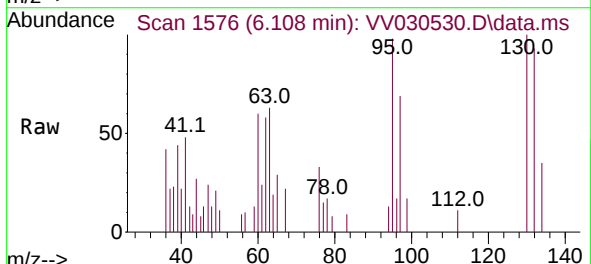
Instrument :
MSVOA_V
ClientSampleId :
BHDZ8

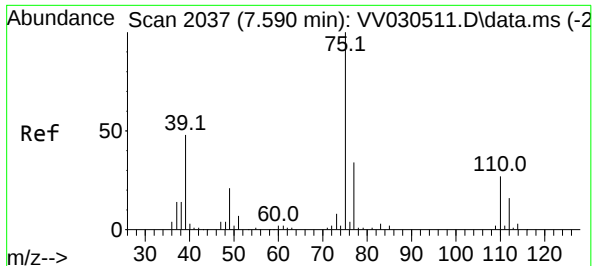
Tgt Ion: 83 Resp: 5089
Ion Ratio Lower Upper
83 100
55 96.1 66.6 100.0
98 0.0 38.6 58.0#



#37
1,2-Dichloropropane
Concen: 0.190 ug/L
RT: 6.108 min Scan# 1576
Delta R.T. 0.006 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

Tgt Ion: 63 Resp: 1844
Ion Ratio Lower Upper
63 100
112 5.6 3.9 5.9

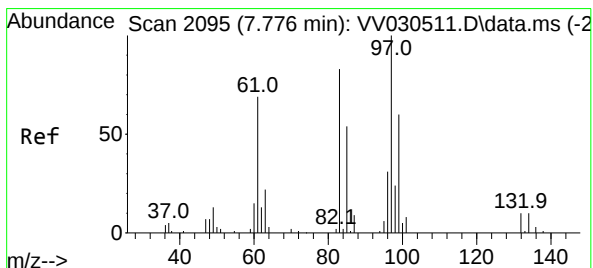
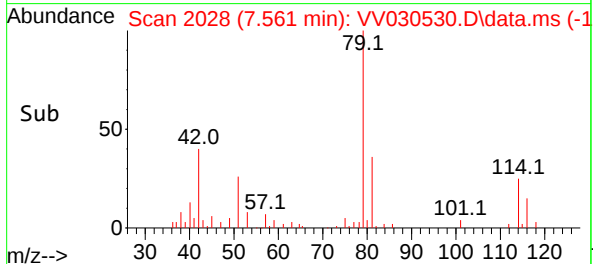
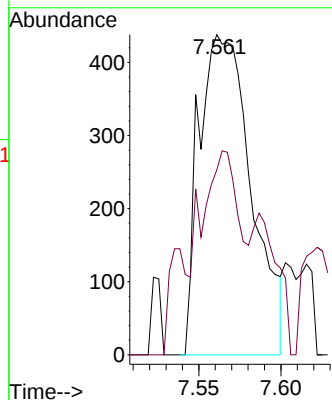
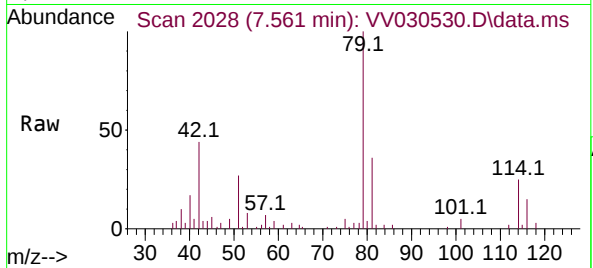




#44
trans-1,3-Dichloropropene
Concen: 0.084 ug/L
RT: 7.561 min Scan# 2037
Delta R.T. -0.029 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

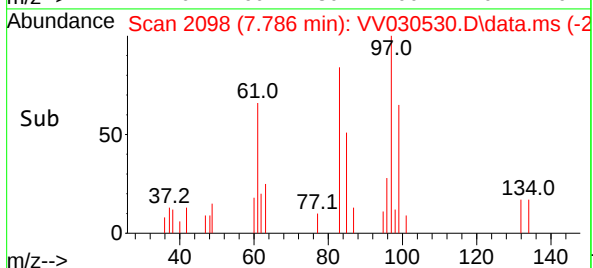
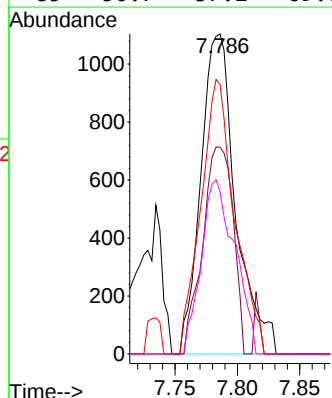
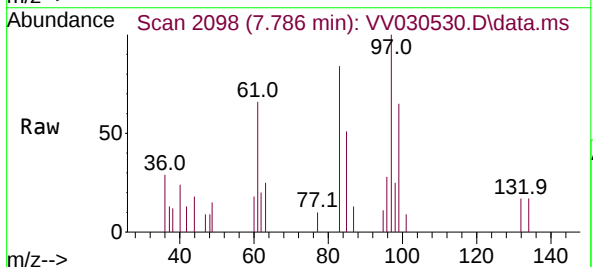
Instrument :
MSVOA_V
ClientSampleId :
BHDZ8

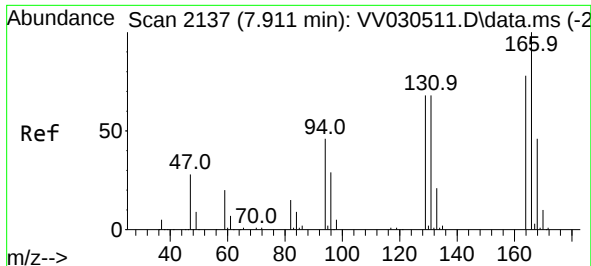
Tgt Ion: 75 Resp: 971
Ion Ratio Lower Upper
75 100
77 57.8 21.2 39.4#



#45
1,1,2-Trichloroethane
Concen: 0.316 ug/L
RT: 7.786 min Scan# 2098
Delta R.T. 0.010 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

Tgt Ion: 97 Resp: 2152
Ion Ratio Lower Upper
97 100
99 64.6 44.0 81.8
83 84.1 58.8 109.2
85 50.7 37.2 69.0





#47

Tetrachloroethene

Concen: 339.971 ug/L

RT: 7.918 min Scan# 2139

Delta R.T. 0.006 min

Lab File: VV030530.D

Acq: 12 Apr 2023 20:15

Instrument :

MSVOA_V

ClientSampleId :

BHDZ8

Tgt Ion:164 Resp: 3052244

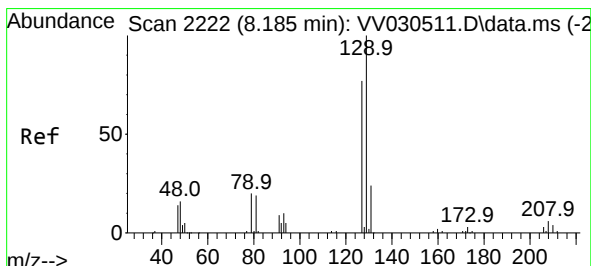
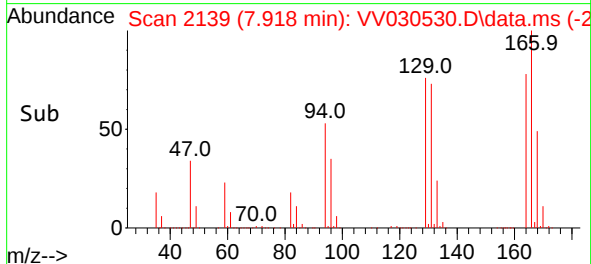
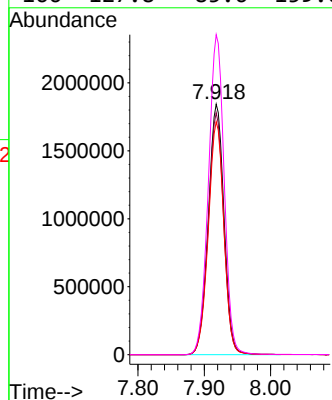
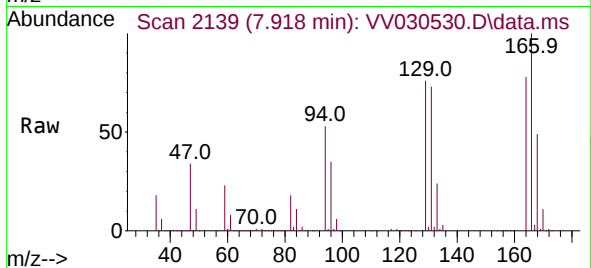
Ion Ratio Lower Upper

164 100

129 96.6 60.8 112.8

131 93.0 61.7 114.7

166 127.8 85.6 159.0



#49

Dibromochloromethane

Concen: 349.003 ug/L

RT: 7.918 min Scan# 2139

Delta R.T. -0.267 min

Lab File: VV030530.D

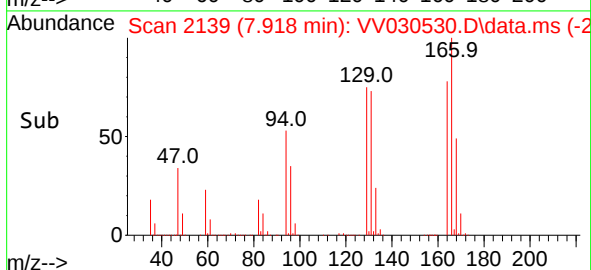
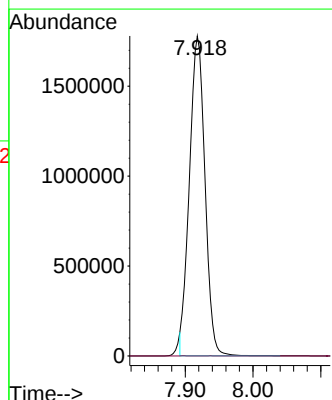
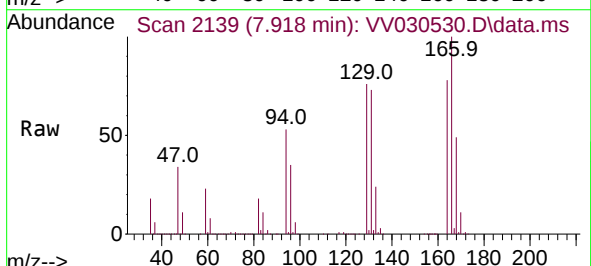
Acq: 12 Apr 2023 20:15

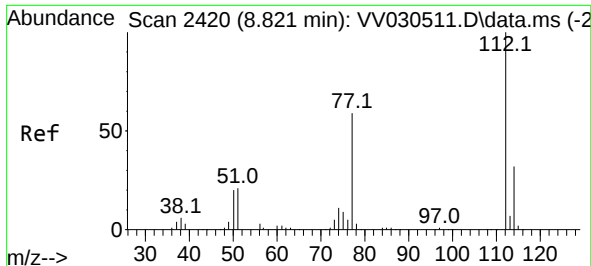
Tgt Ion:129 Resp: 2832535

Ion Ratio Lower Upper

129 100

127 0.0 52.7 97.9#

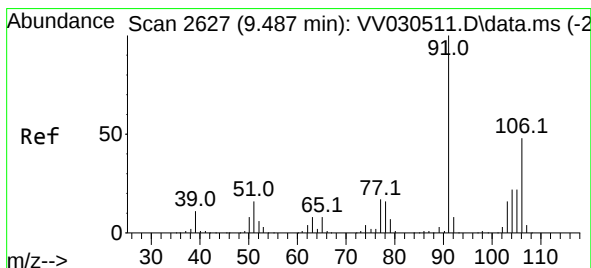
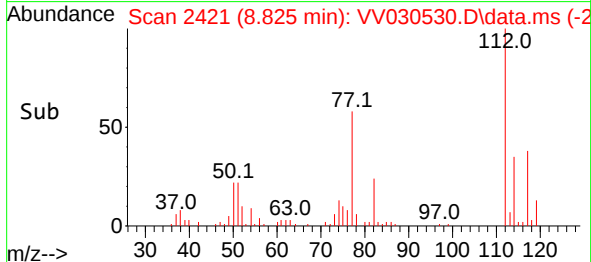
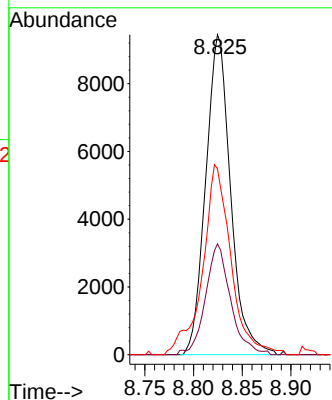
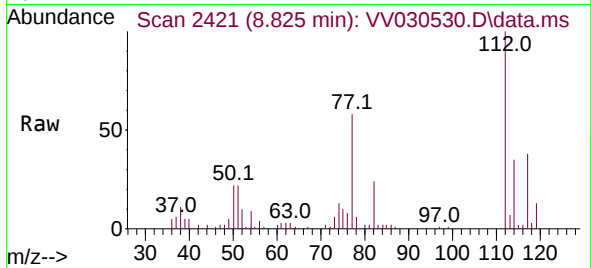




#51
Chlorobenzene
Concen: 0.654 ug/L
RT: 8.825 min Scan# 2420
Delta R.T. 0.003 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

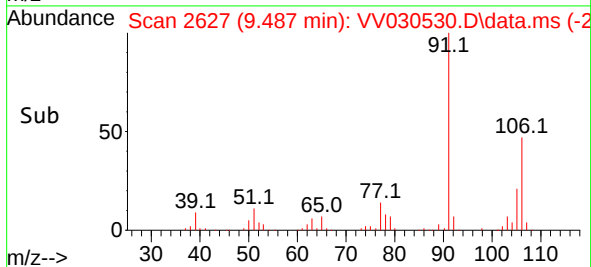
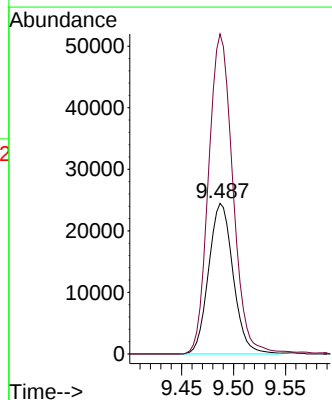
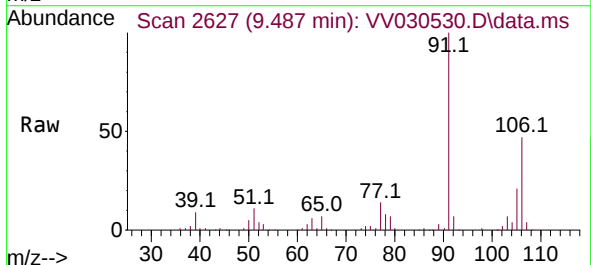
Instrument :
MSVOA_V
ClientSampleId :
BHDZ8

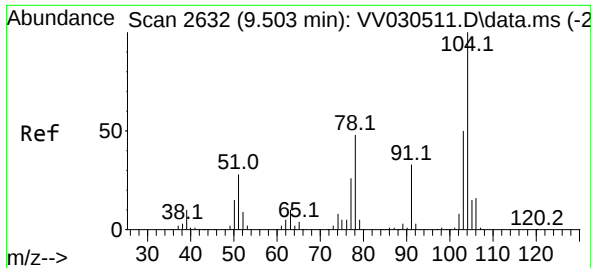
Tgt Ion:112 Resp: 16820
Ion Ratio Lower Upper
112 100
114 34.7 22.4 41.6
77 58.1 45.9 68.9



#54
o-Xylene
Concen: 2.491 ug/L
RT: 9.487 min Scan# 2627
Delta R.T. 0.000 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

Tgt Ion:106 Resp: 40107
Ion Ratio Lower Upper
106 100
91 212.5 149.8 278.2

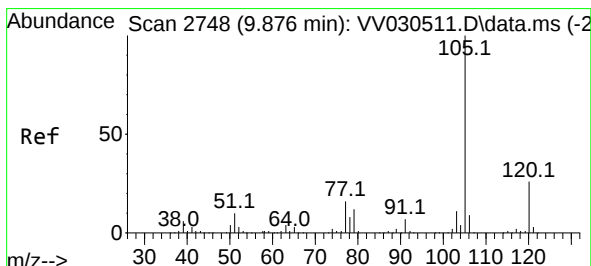
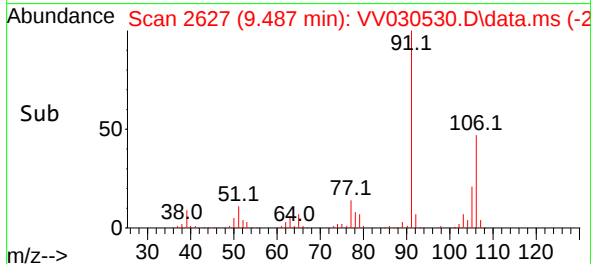
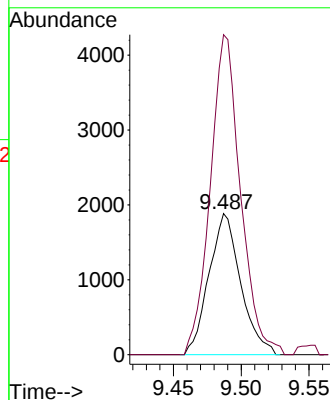
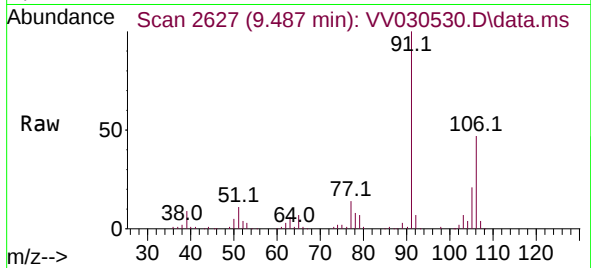




#55
Styrene
Concen: 0.112 ug/L
RT: 9.487 min Scan# 2011
Delta R.T. -0.016 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

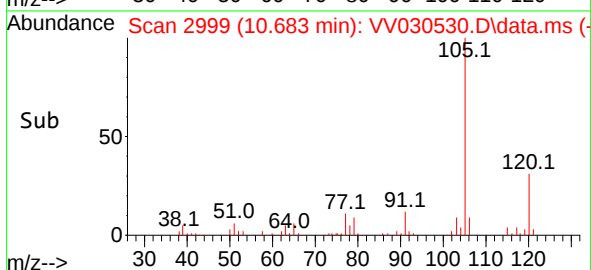
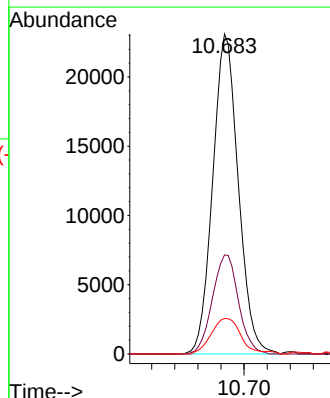
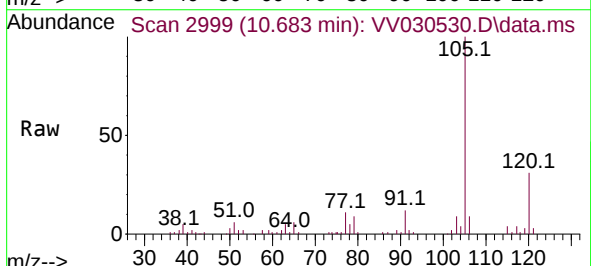
Instrument :
MSVOA_V
ClientSampleId :
BHDZ8

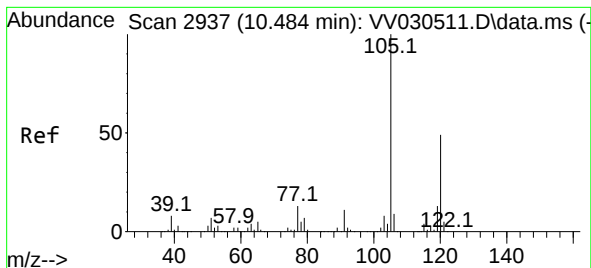
Tgt Ion:104 Resp: 3075
Ion Ratio Lower Upper
104 100
78 226.9 31.9 59.2#



#60
Isopropylbenzene
Concen: 0.897 ug/L
RT: 10.683 min Scan# 2999
Delta R.T. 0.807 min
Lab File: VV030530.D
Acq: 12 Apr 2023 20:15

Tgt Ion:105 Resp: 35413
Ion Ratio Lower Upper
105 100
120 31.6 21.1 31.7
77 13.0 12.9 19.3





#62

1,3,5-Trimethylbenzene

Concen: 0.949 ug/L

RT: 11.281 min Scan# 3185

Delta R.T. 0.797 min

Lab File: VV030530.D

Acq: 12 Apr 2023 20:15

Instrument :

MSVOA_V

ClientSampleId :

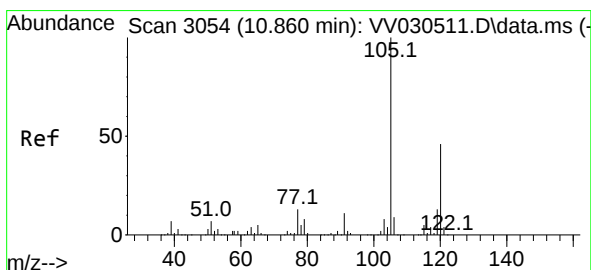
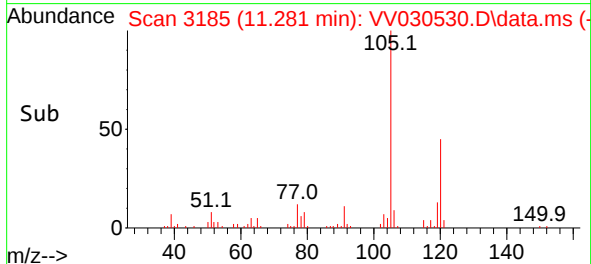
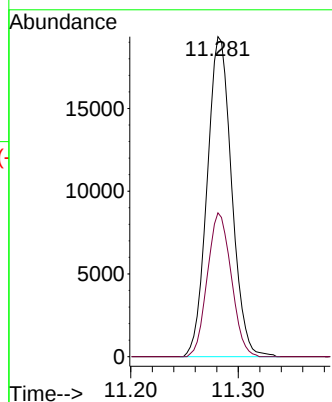
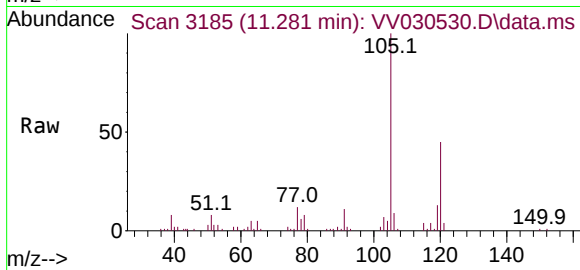
BHDZ8

Tgt Ion:105 Resp: 30567

Ion Ratio Lower Upper

105 100

120 43.7 38.9 58.3



#63

1,2,4-Trimethylbenzene

Concen: 0.931 ug/L

RT: 11.281 min Scan# 3185

Delta R.T. 0.421 min

Lab File: VV030530.D

Acq: 12 Apr 2023 20:15

Tgt Ion:105 Resp: 30567

Ion Ratio Lower Upper

105 100

120 43.7 36.8 55.2

