

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW071822\
 Data File : VW026809.D
 Acq On : 18 Jul 2022 14:26
 Operator : SY/MD
 Sample : N3710-10
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 H0B07

Quant Time: Jul 19 03:09:44 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR071122WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Tue Jul 19 03:06:10 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	209709	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	203987	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	111989	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.301	65	65294	3.413	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	68.200%
7) Chloroethane-d5	1.565	69	64484	3.901	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	78.000%
11) 1,1-Dichloroethene-d2	2.101	63	88039	2.397	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	48.000%#
20) 2-Butanone-d5	3.902	46	203503	68.154	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	136.300%#
24) Chloroform-d	4.346	84	148633	4.443	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.800%
26) 1,2-Dichloroethane-d4	5.034	65	75080	5.137	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.800%
32) Benzene-d6	5.050	84	269151	4.342	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.800%
36) 1,2-Dichloropropane-d6	6.069	67	93155	5.012	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	100.200%
41) Toluene-d8	7.317	98	192739	3.503	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	70.000%
43) trans-1,3-Dichloroprop...	7.625	79	27537	4.529	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.600%
46) 2-Hexanone-d5	8.092	63	166718	63.329	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	126.660%
56) 1,1,2,2-Tetrachloroeth...	10.214	84	83555	5.771	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	115.400%
66) 1,2-Dichlorobenzene-d4	11.622	152	104085	5.334	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	106.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.127	85	315226	11.824	ug/L	99
3) Chloromethane	1.291	50	3352	0.131	ug/L	84
5) Vinyl chloride	1.307	62	2479	0.095	ug/L #	47
6) Bromomethane	1.520	94	978	0.063	ug/L	74
13) Acetone	1.947	43	53307	21.219	ug/L	87
14) Carbon disulfide	2.291	76	9405	0.174	ug/L	100
15) Methyl Acetate	2.192	43	34753	6.840	ug/L #	51
17) Methyl tert-butyl Ether	2.767	73	14465	0.457	ug/L #	62
21) 2-Butanone	3.915	43	30620	10.451	ug/L #	71
27) 1,2-Dichloroethane	5.095	62	3875	0.222	ug/L #	72
30) Cyclohexane	4.667	56	5674	0.242	ug/L #	21
33) Benzene	5.098	78	492781	7.226	ug/L	100
35) Methylcyclohexane	6.133	83	5820	0.227	ug/L #	86
39) cis-1,3-Dichloropropene	6.986	75	1770	0.087	ug/L #	52
42) Toluene	7.394	91	22004	0.319	ug/L	100
51) Chlorobenzene	8.883	112	129983	2.985	ug/L	99
52) Ethylbenzene	9.018	91	8921	0.131	ug/L	90
53) m,p-Xylene	9.140	106	35730	1.348	ug/L	98
54) o-Xylene	9.545	106	21789	0.865	ug/L	100

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

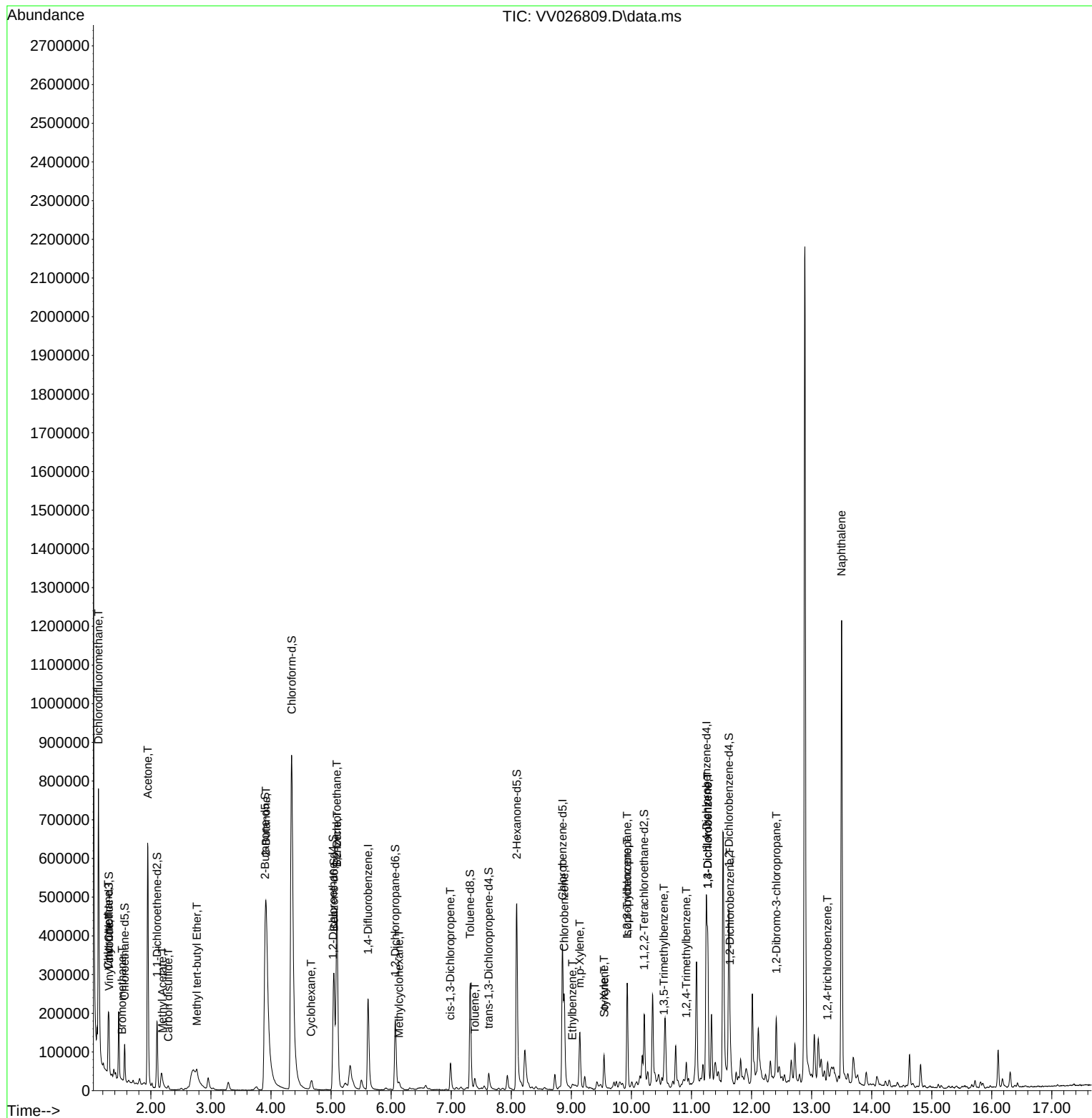
55) Styrene	9.551	104	4053	0.092	ug/L #	1
60) Isopropylbenzene	9.931	105	167861	2.403	ug/L	99
61) 1,2,3-Trichloropropane	9.931	75	2250	0.218	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.542	105	14393	0.259	ug/L	97
63) 1,2,4-Trimethylbenzene	10.915	105	29163	0.517	ug/L	96
64) 1,3-Dichlorobenzene	11.272	146	145081	4.239	ug/L	98
65) 1,4-Dichlorobenzene	11.272	146	145081	4.169	ug/L	99
67) 1,2-Dichlorobenzene	11.641	146	16313	0.510	ug/L	95
68) 1,2-Dibromo-3-chloropr...	12.413	75	1029	0.470	ug/L #	6
70) 1,2,4-trichlorobenzene	13.262	180	2878	0.156	ug/L #	74
71) Naphthalene	13.500	128	883756	28.996	ug/L	99

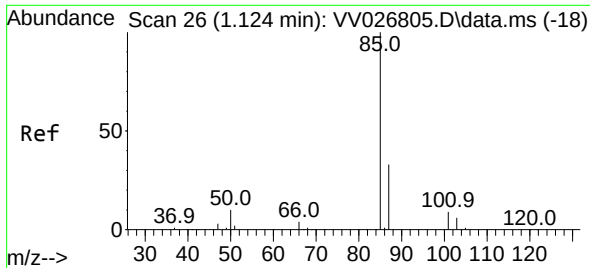
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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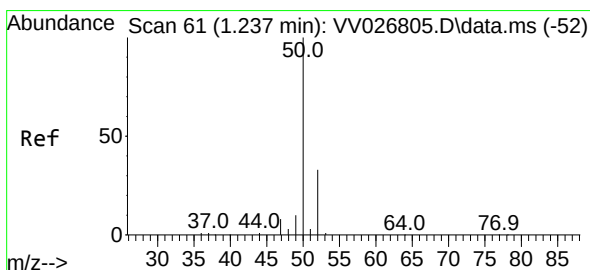
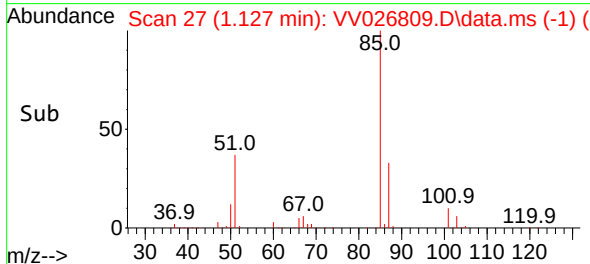
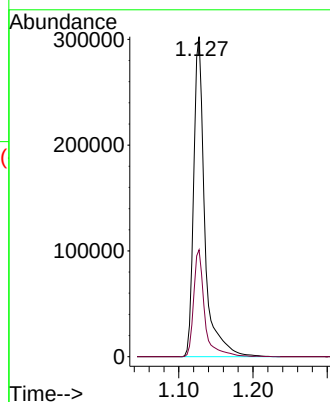
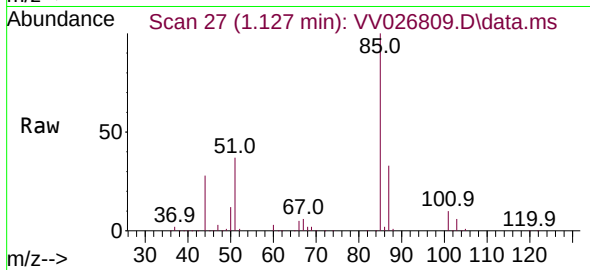




#2
 Dichlorodifluoromethane
 Concen: 11.824 ug/L
 RT: 1.127 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: VV026809.D
 Acq: 18 Jul 2022 14:26

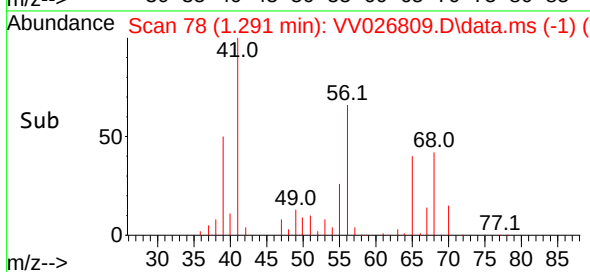
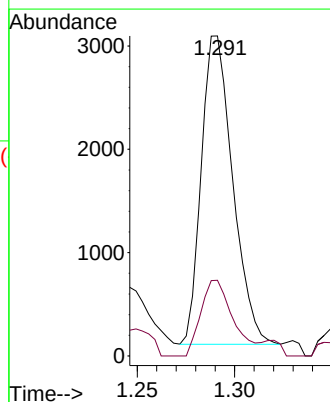
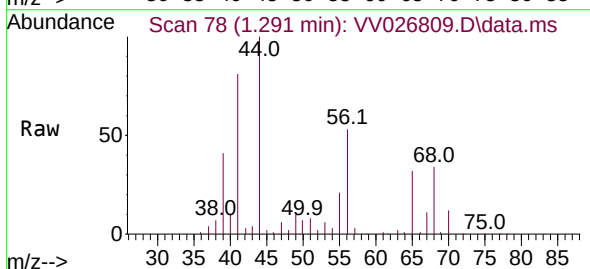
Instrument :
 MSVOA_V
 ClientSampleId :
 H0B07

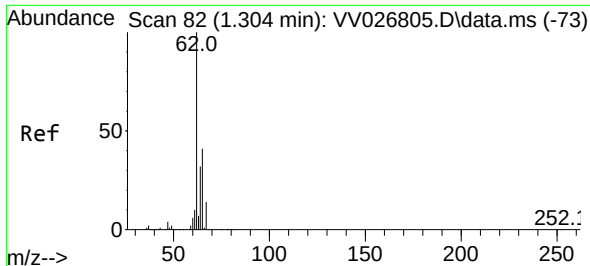
Tgt Ion: 85 Resp: 315226
 Ion Ratio Lower Upper
 85 100
 87 33.1 25.8 38.8



#3
 Chloromethane
 Concen: 0.131 ug/L
 RT: 1.291 min Scan# 78
 Delta R.T. 0.055 min
 Lab File: VV026809.D
 Acq: 18 Jul 2022 14:26

Tgt Ion: 50 Resp: 3352
 Ion Ratio Lower Upper
 50 100
 52 23.7 22.8 42.4

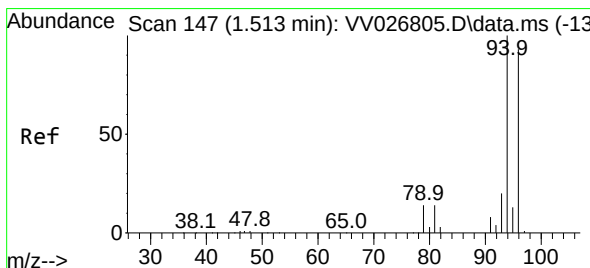
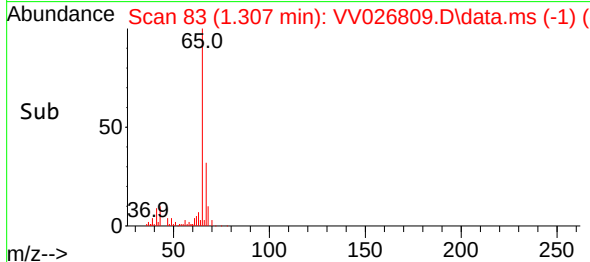
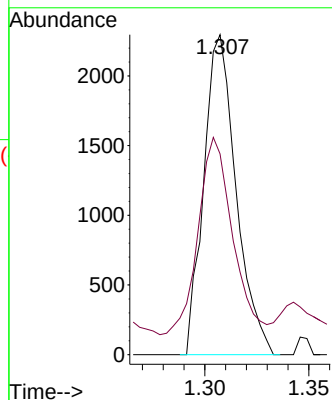
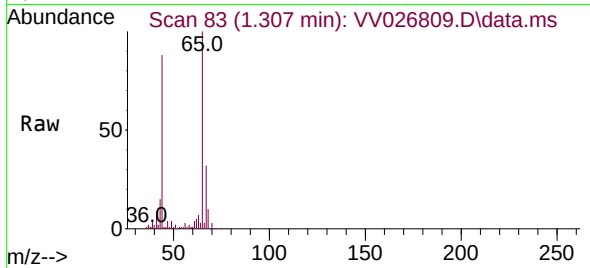




#5
 Vinyl chloride
 Concen: 0.095 ug/L
 RT: 1.307 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VV026809.D
 Acq: 18 Jul 2022 14:26

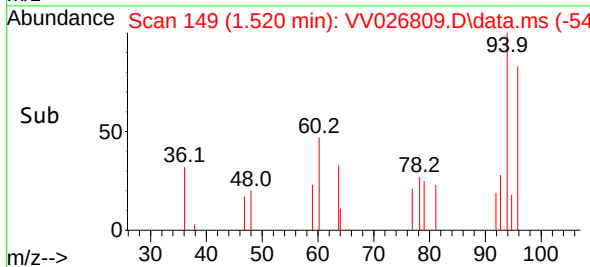
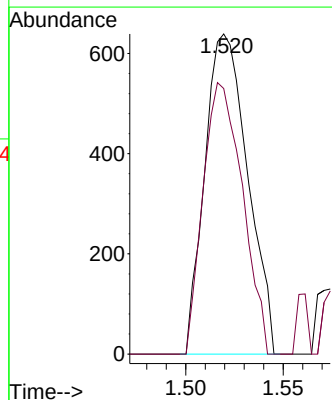
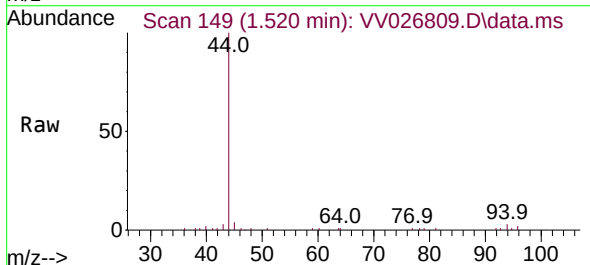
Instrument :
 MSVOA_V
 ClientSampleId :
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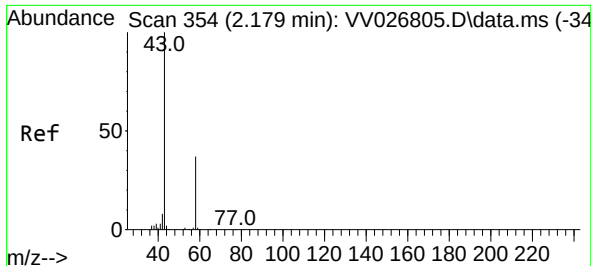
Tgt Ion: 62 Resp: 2479
 Ion Ratio Lower Upper
 62 100
 64 62.8 22.9 42.5#



#6
 Bromomethane
 Concen: 0.063 ug/L
 RT: 1.520 min Scan# 149
 Delta R.T. 0.006 min
 Lab File: VV026809.D
 Acq: 18 Jul 2022 14:26

Tgt Ion: 94 Resp: 978
 Ion Ratio Lower Upper
 94 100
 96 70.2 67.1 124.7

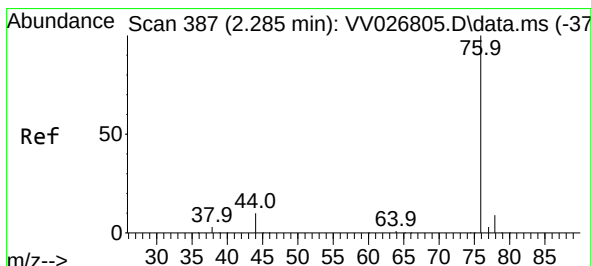
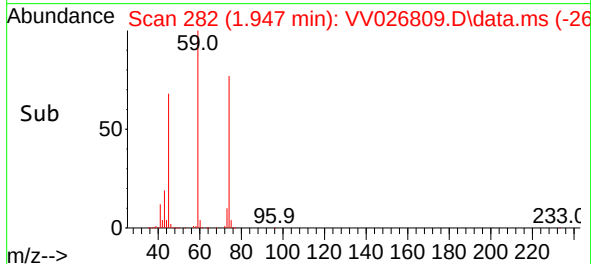
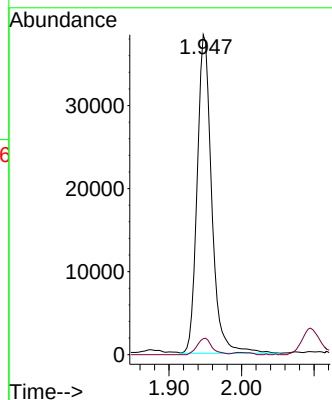
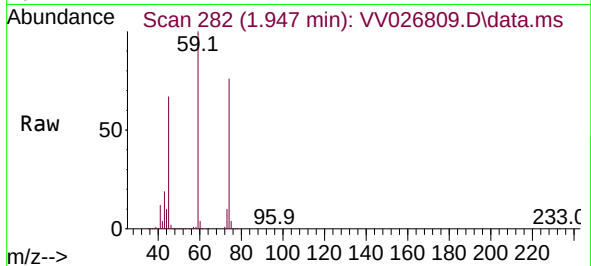




#13
Acetone
Concen: 21.219 ug/L
RT: 1.947 min Scan# 21
Delta R.T. -0.232 min
Lab File: VV026809.D
Acq: 18 Jul 2022 14:26

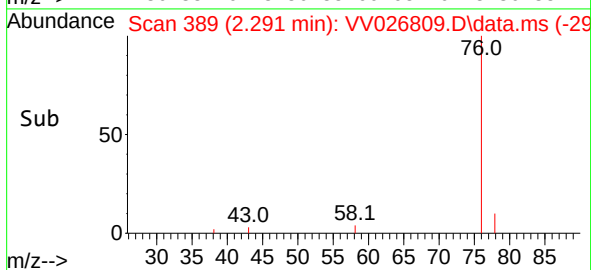
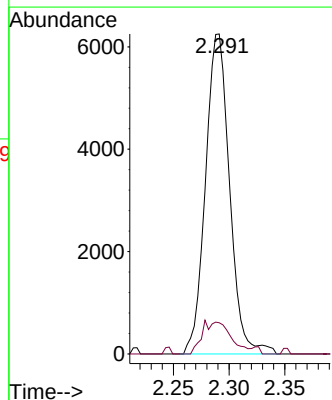
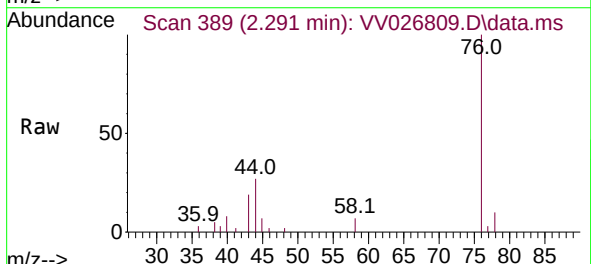
Instrument :
MSVOA_V
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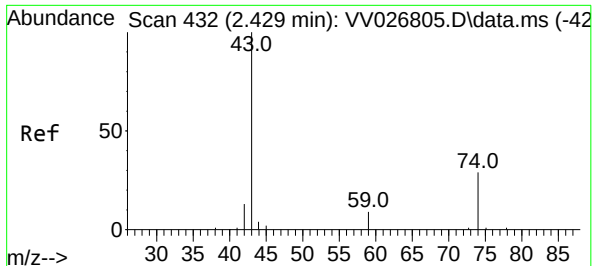
Tgt Ion: 43 Resp: 53307
Ion Ratio Lower Upper
43 100
58 5.3 0.0 20.6



#14
Carbon disulfide
Concen: 0.174 ug/L
RT: 2.291 min Scan# 389
Delta R.T. 0.006 min
Lab File: VV026809.D
Acq: 18 Jul 2022 14:26

Tgt Ion: 76 Resp: 9405
Ion Ratio Lower Upper
76 100
78 9.8 7.7 11.5

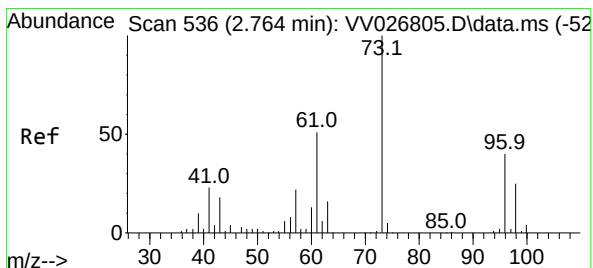
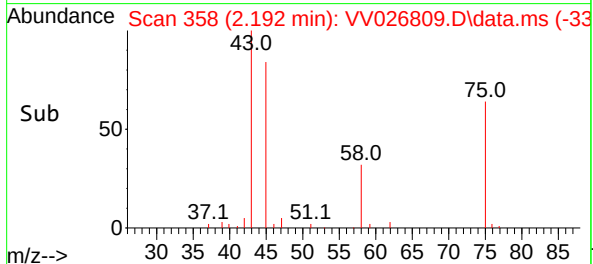
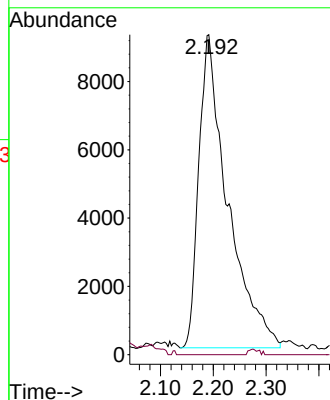
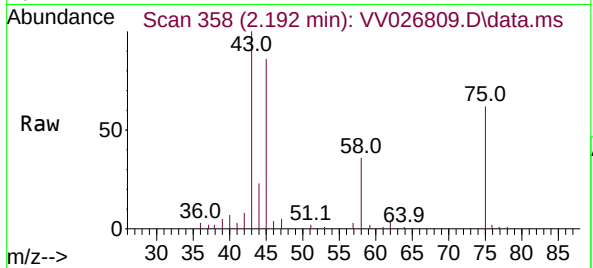




#15
Methyl Acetate
Concen: 6.840 ug/L
RT: 2.192 min Scan# 31
Delta R.T. -0.238 min
Lab File: VV026809.D
Acq: 18 Jul 2022 14:26

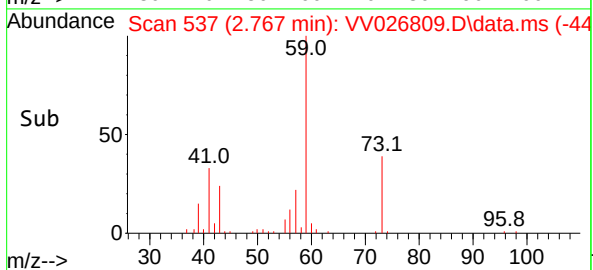
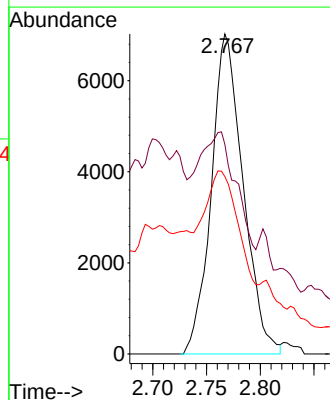
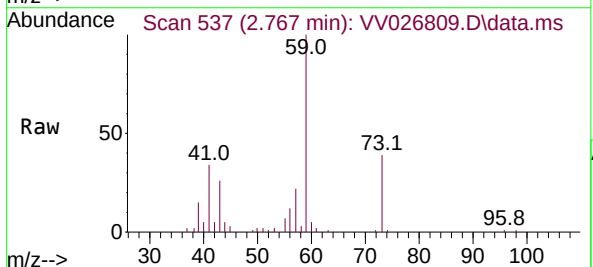
Instrument :
MSVOA_V
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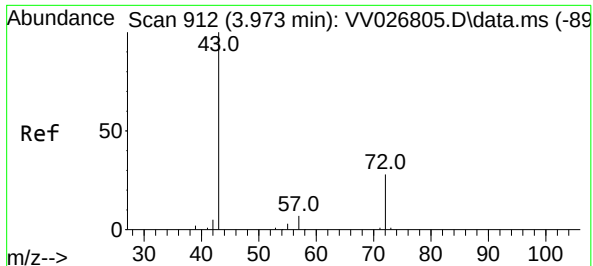
Tgt Ion: 43 Resp: 34753
Ion Ratio Lower Upper
43 100
74 0.6 20.1 30.1#



#17
Methyl tert-butyl Ether
Concen: 0.457 ug/L
RT: 2.767 min Scan# 537
Delta R.T. 0.003 min
Lab File: VV026809.D
Acq: 18 Jul 2022 14:26

Tgt Ion: 73 Resp: 14465
Ion Ratio Lower Upper
73 100
43 38.8 14.0 21.0#
57 35.8 17.6 26.4#





#21

2-Butanone

Concen: 10.451 ug/L

RT: 3.915 min Scan# 894

Delta R.T. -0.058 min

Lab File: VV026809.D

Acq: 18 Jul 2022 14:26

Instrument :

MSVOA_V

ClientSampleId :

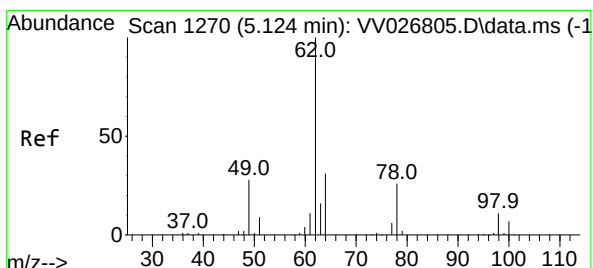
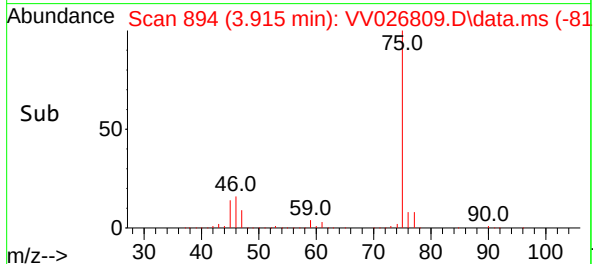
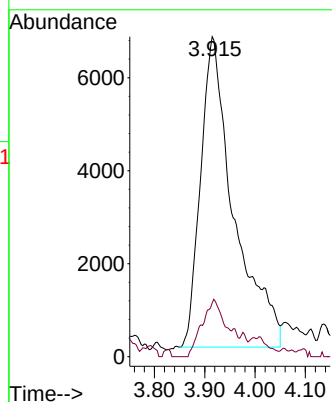
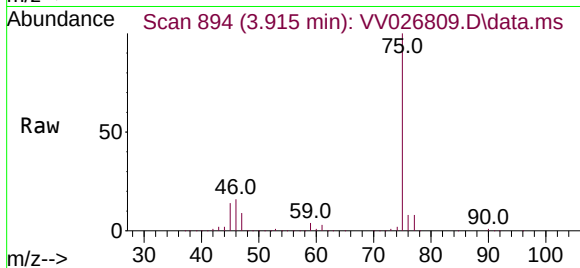
H0B07

Tgt Ion: 43 Resp: 30620

Ion Ratio Lower Upper

43 100

72 12.4 13.9 41.7#



#27

1,2-Dichloroethane

Concen: 0.222 ug/L

RT: 5.095 min Scan# 1261

Delta R.T. -0.029 min

Lab File: VV026809.D

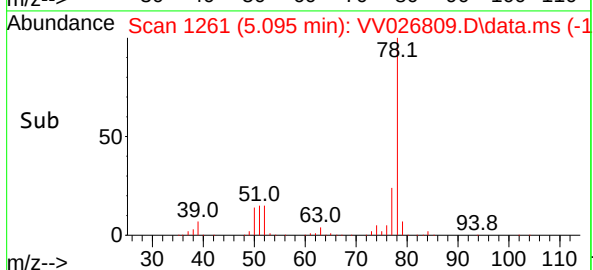
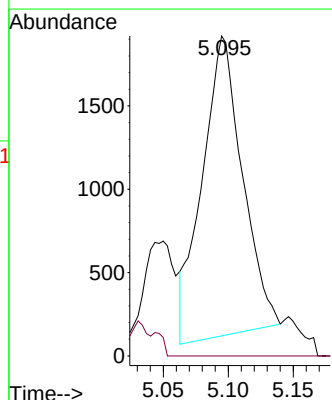
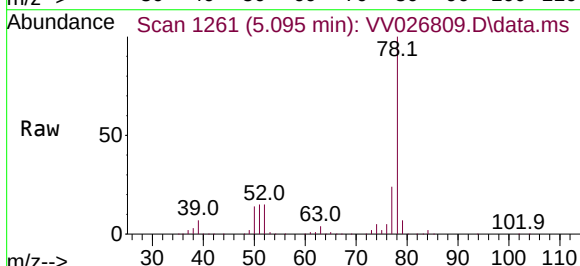
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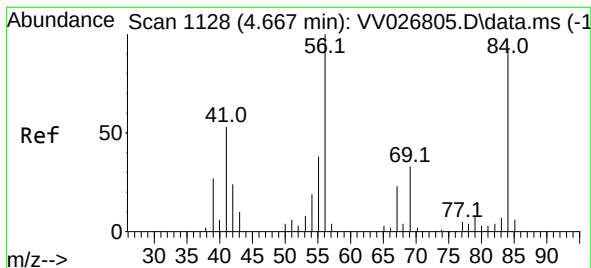
Tgt Ion: 62 Resp: 3875

Ion Ratio Lower Upper

62 100

98 0.0 8.3 12.5#





#30

Cyclohexane

Concen: 0.242 ug/L

RT: 4.667 min Scan# 1128

Delta R.T. -0.000 min

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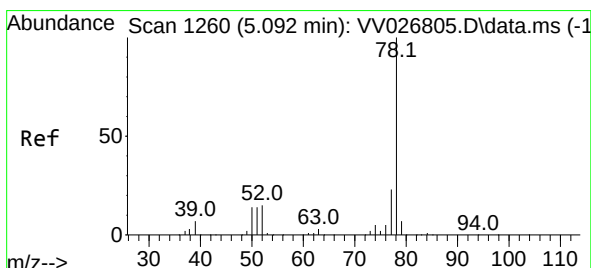
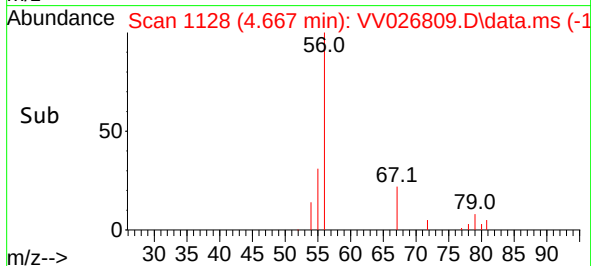
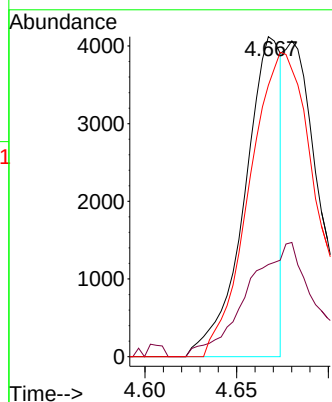
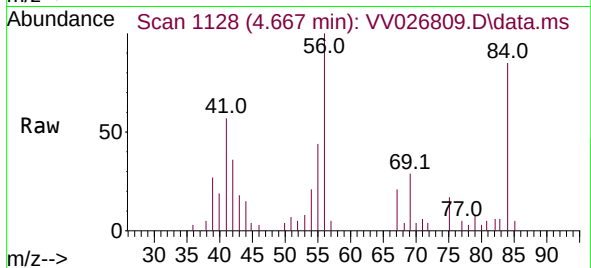
Tgt Ion: 56 Resp: 5674

Ion Ratio Lower Upper

56 100

69 66.3 25.1 37.7#

84 172.9 74.0 111.0#



#33

Benzene

Concen: 7.226 ug/L

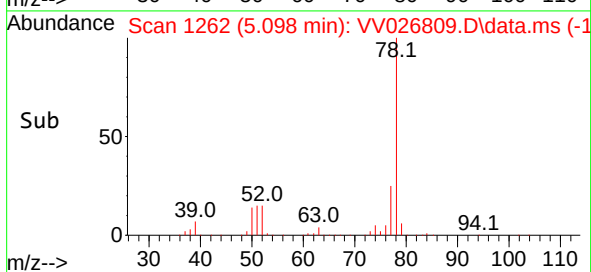
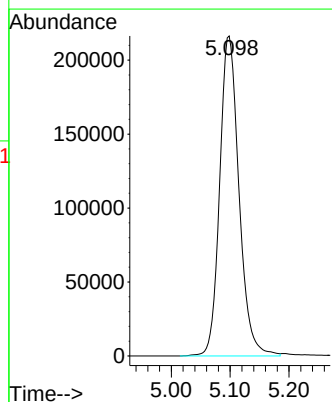
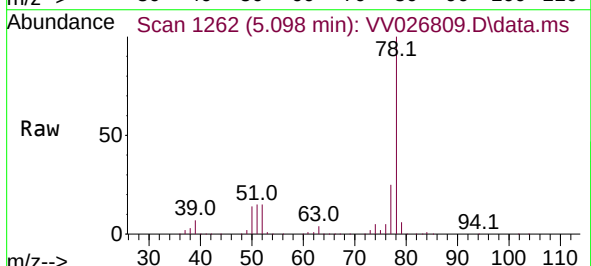
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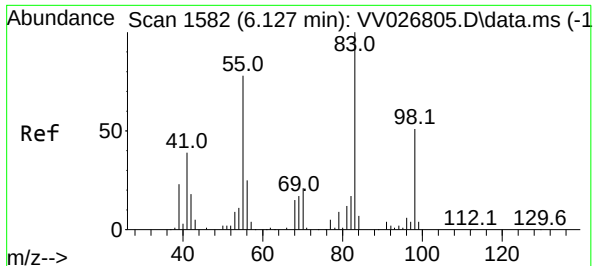
Delta R.T. 0.006 min

Lab File: VV026809.D

Acq: 18 Jul 2022 14:26

Tgt Ion: 78 Resp: 492781





#35

Methylcyclohexane

Concen: 0.227 ug/L

RT: 6.133 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV026809.D

Acq: 18 Jul 2022 14:26

Instrument :

MSVOA_V

ClientSampleId :

H0B07

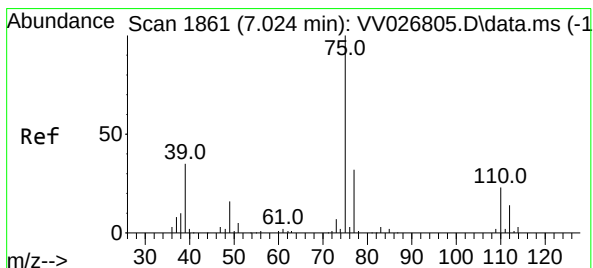
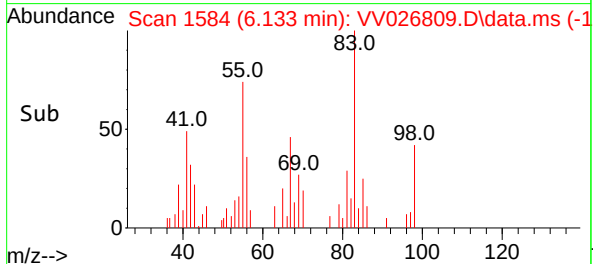
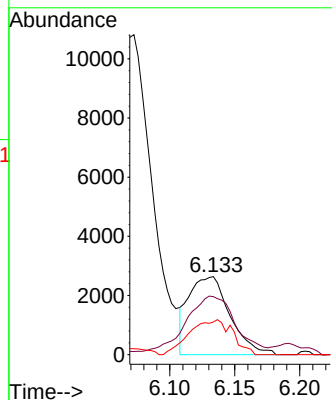
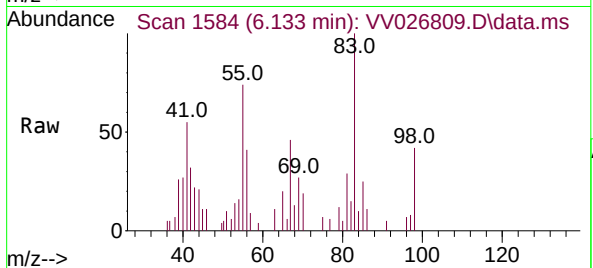
Tgt Ion: 83 Resp: 5820

Ion Ratio Lower Upper

83 100

55 93.4 59.5 89.3#

98 46.9 38.3 57.5



#39

cis-1,3-Dichloropropene

Concen: 0.087 ug/L

RT: 6.986 min Scan# 1849

Delta R.T. -0.039 min

Lab File: VV026809.D

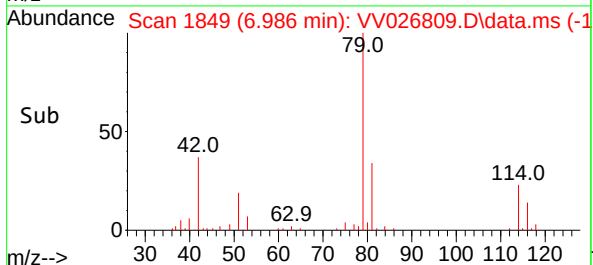
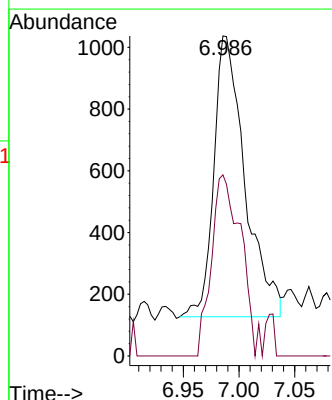
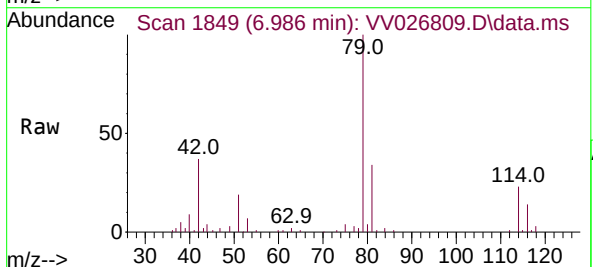
Acq: 18 Jul 2022 14:26

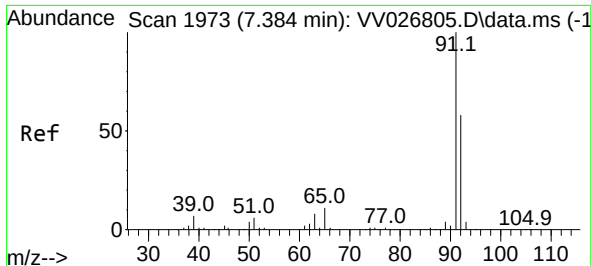
Tgt Ion: 75 Resp: 1770

Ion Ratio Lower Upper

75 100

77 56.6 21.4 39.8#

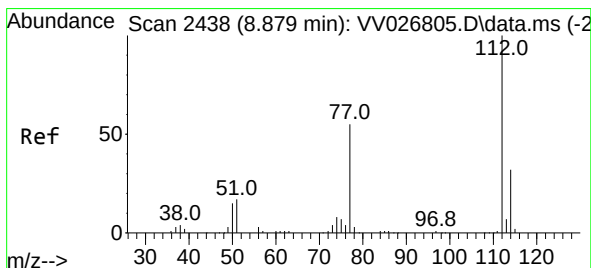
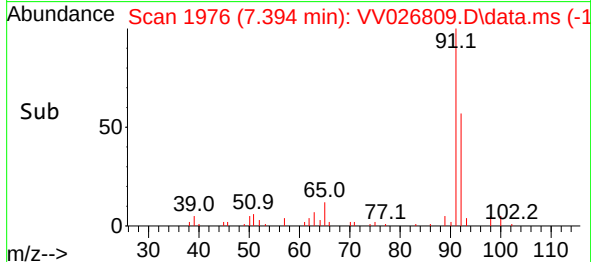
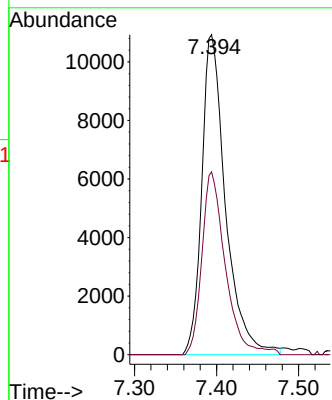
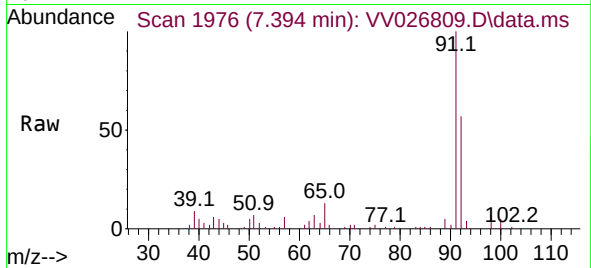




#42
Toluene
Concen: 0.319 ug/L
RT: 7.394 min Scan# 1973
Delta R.T. 0.010 min
Lab File: VV026809.D
Acq: 18 Jul 2022 14:26

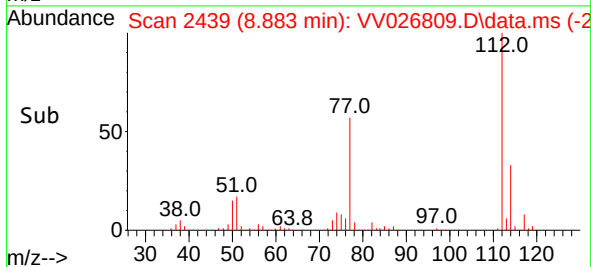
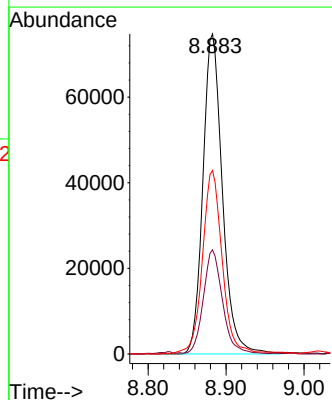
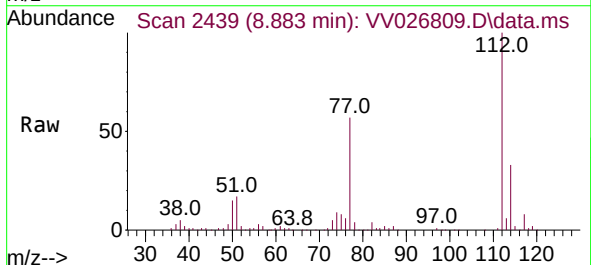
Instrument :
MSVOA_V
ClientSampleId :
H0B07

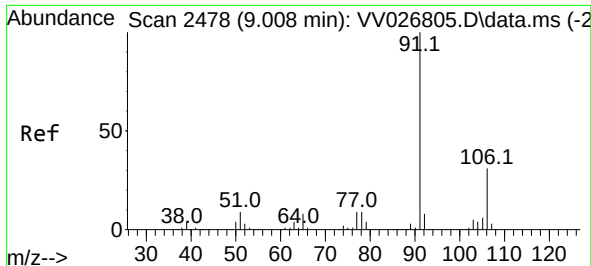
Tgt Ion: 91 Resp: 22004
Ion Ratio Lower Upper
91 100
92 57.1 40.2 74.6



#51
Chlorobenzene
Concen: 2.985 ug/L
RT: 8.883 min Scan# 2439
Delta R.T. 0.003 min
Lab File: VV026809.D
Acq: 18 Jul 2022 14:26

Tgt Ion: 112 Resp: 129983
Ion Ratio Lower Upper
112 100
114 32.6 22.7 42.1
77 57.4 46.6 70.0





#52

Ethylbenzene

Concen: 0.131 ug/L

RT: 9.018 min Scan# 2478

Delta R.T. 0.010 min

Lab File: VV026809.D

Acq: 18 Jul 2022 14:26

Instrument :

MSVOA_V

ClientSampleId :

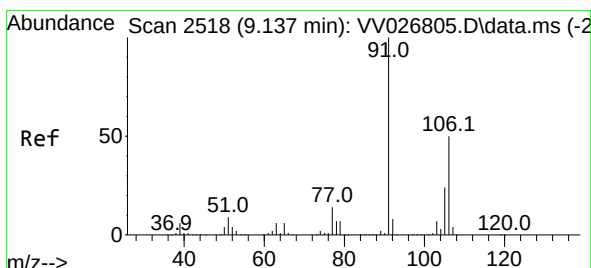
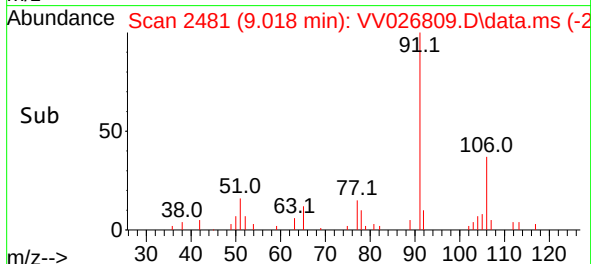
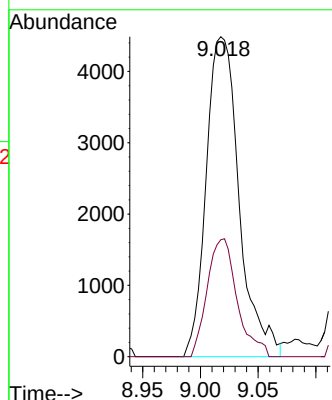
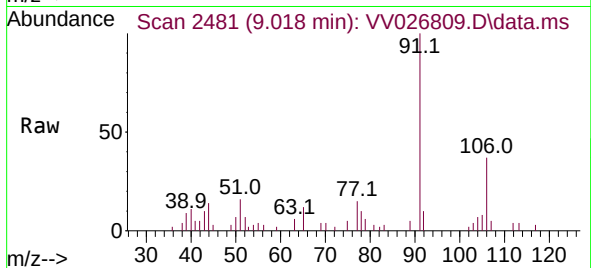
H0B07

Tgt Ion: 91 Resp: 8921

Ion Ratio Lower Upper

91 100

106 36.6 21.6 40.2



#53

m,p-Xylene

Concen: 1.348 ug/L

RT: 9.140 min Scan# 2519

Delta R.T. 0.003 min

Lab File: VV026809.D

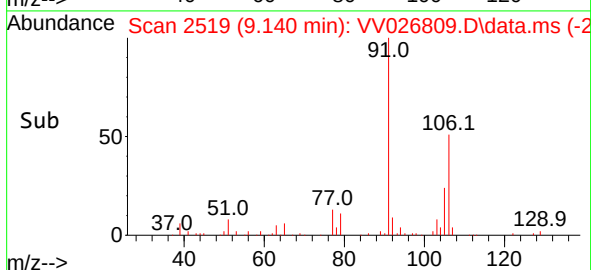
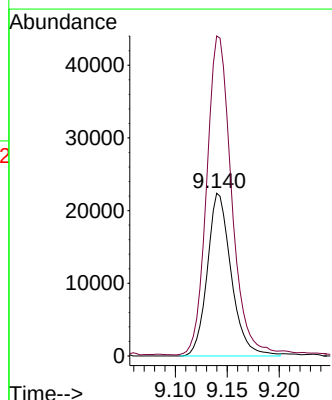
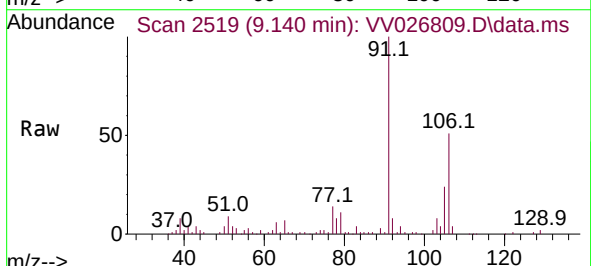
Acq: 18 Jul 2022 14:26

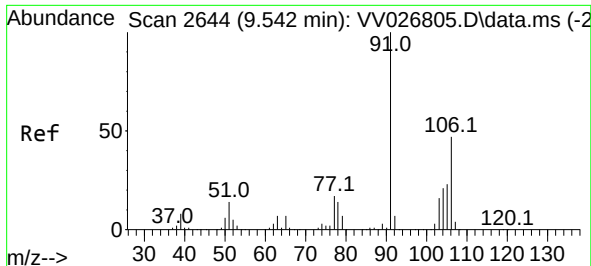
Tgt Ion: 106 Resp: 35730

Ion Ratio Lower Upper

106 100

91 196.6 139.3 258.7

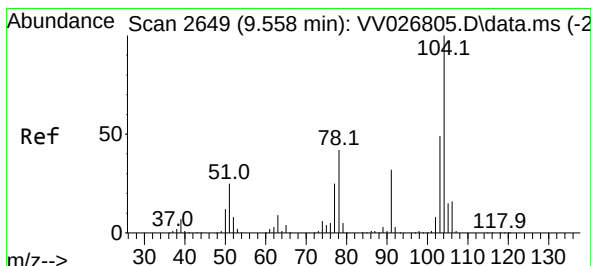
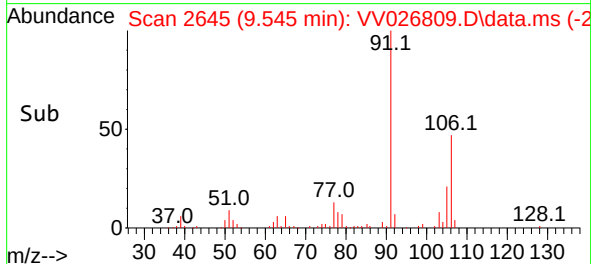
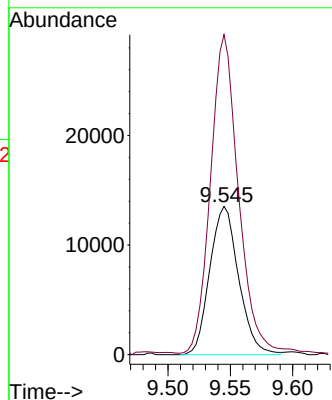
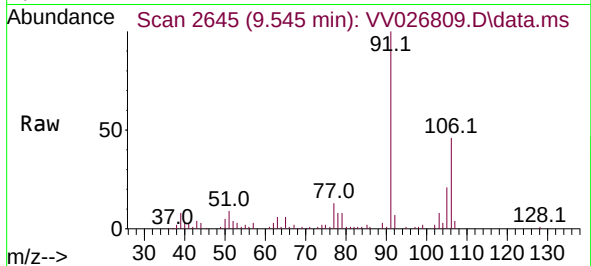




#54
o-Xylene
Concen: 0.865 ug/L
RT: 9.545 min Scan# 2644
Delta R.T. 0.003 min
Lab File: VV026809.D
Acq: 18 Jul 2022 14:26

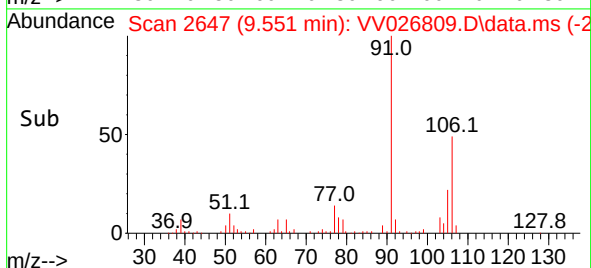
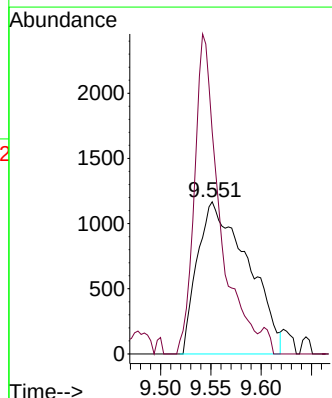
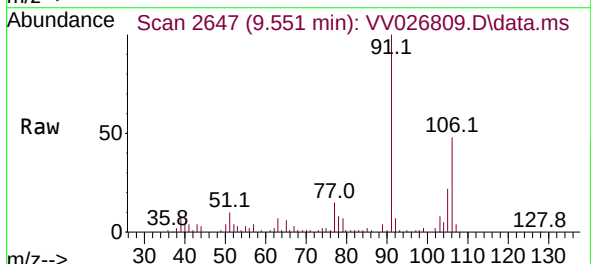
Instrument :
MSVOA_V
ClientSampleId :
H0B07

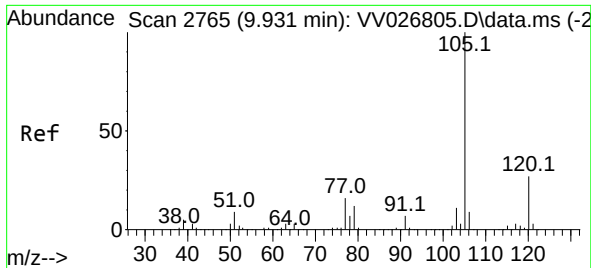
Tgt Ion:106 Resp: 21789
Ion Ratio Lower Upper
106 100
91 215.8 151.1 280.7



#55
Styrene
Concen: 0.092 ug/L
RT: 9.551 min Scan# 2647
Delta R.T. -0.006 min
Lab File: VV026809.D
Acq: 18 Jul 2022 14:26

Tgt Ion:104 Resp: 4053
Ion Ratio Lower Upper
104 100
78 146.1 29.5 54.9#

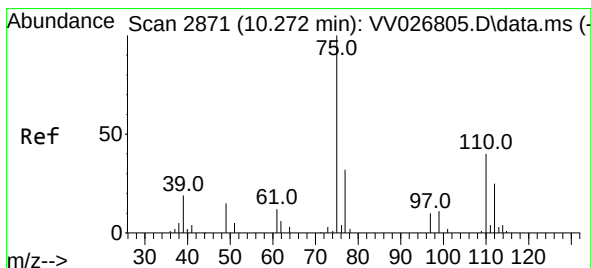
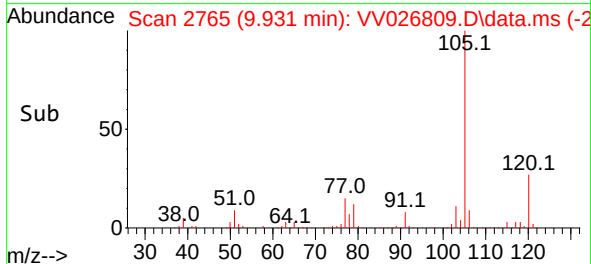
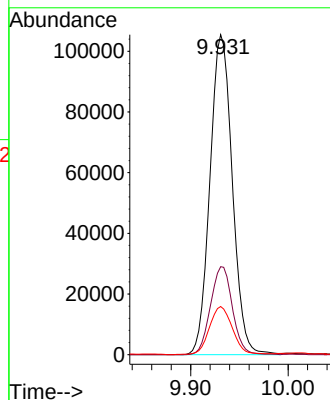
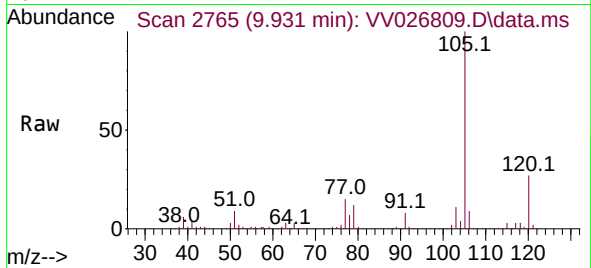




#60
Isopropylbenzene
Concen: 2.403 ug/L
RT: 9.931 min Scan# 2765
Delta R.T. -0.000 min
Lab File: VV026809.D
Acq: 18 Jul 2022 14:26

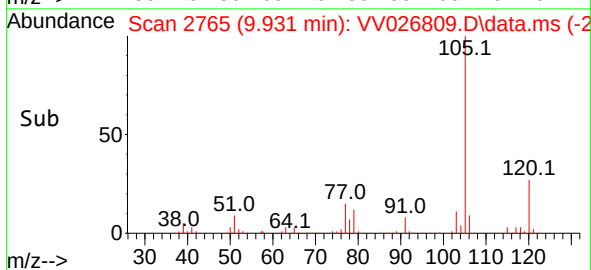
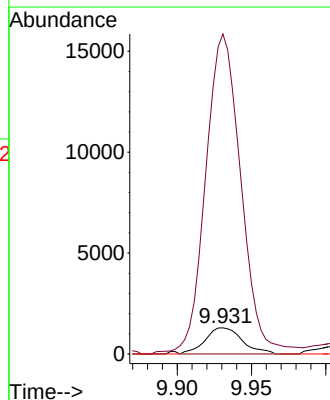
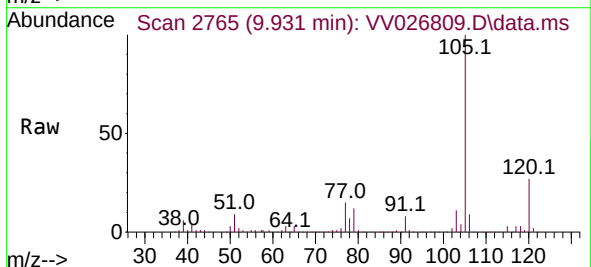
Instrument :
MSVOA_V
ClientSampleId :
H0B07

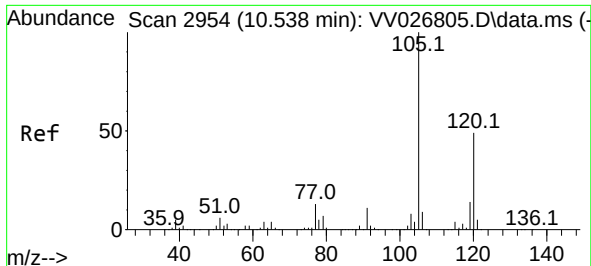
Tgt Ion:105 Resp: 167861
Ion Ratio Lower Upper
105 100
120 27.0 20.7 31.1
77 15.7 12.5 18.7



#61
1,2,3-Trichloropropane
Concen: 0.218 ug/L
RT: 9.931 min Scan# 2765
Delta R.T. -0.341 min
Lab File: VV026809.D
Acq: 18 Jul 2022 14:26

Tgt Ion: 75 Resp: 2250
Ion Ratio Lower Upper
75 100
77 1170.7 25.4 38.0#
110 0.0 31.8 47.6#





#62

1,3,5-Trimethylbenzene

Concen: 0.259 ug/L

RT: 10.542 min Scan# 2954

Delta R.T. 0.003 min

Lab File: VV026809.D

Acq: 18 Jul 2022 14:26

Instrument :

MSVOA_V

ClientSampleId :

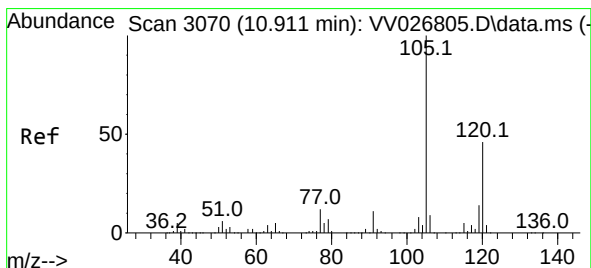
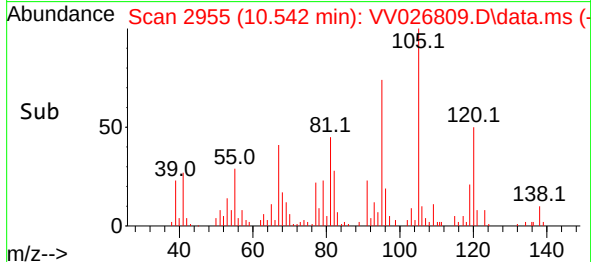
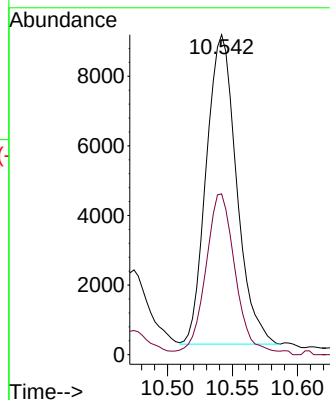
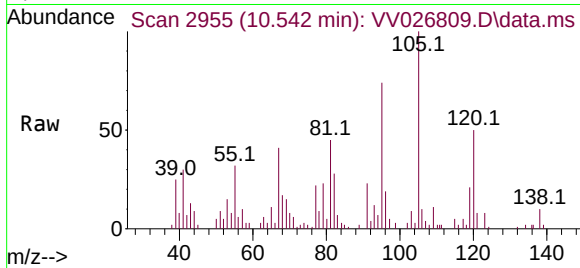
H0B07

Tgt Ion:105 Resp: 14393

Ion Ratio Lower Upper

105 100

120 51.5 39.6 59.4



#63

1,2,4-Trimethylbenzene

Concen: 0.517 ug/L

RT: 10.915 min Scan# 3071

Delta R.T. 0.003 min

Lab File: VV026809.D

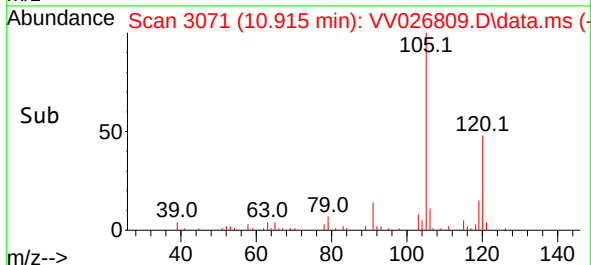
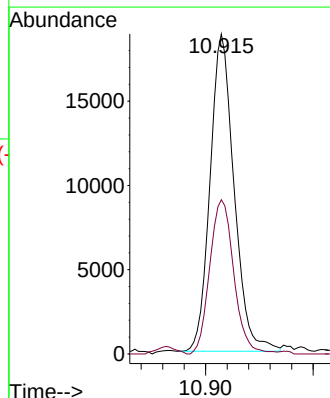
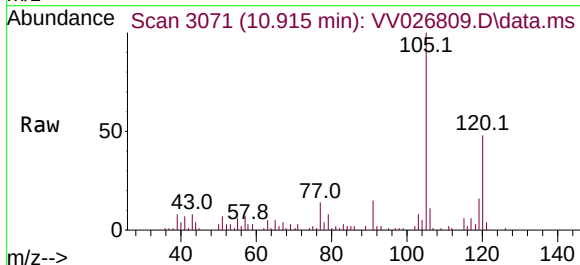
Acq: 18 Jul 2022 14:26

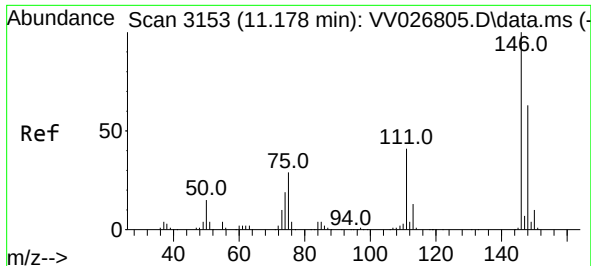
Tgt Ion:105 Resp: 29163

Ion Ratio Lower Upper

105 100

120 48.8 36.8 55.2





#64

1,3-Dichlorobenzene

Concen: 4.239 ug/L

RT: 11.272 min Scan# 31

Delta R.T. 0.093 min

Lab File: VV026809.D

Acq: 18 Jul 2022 14:26

Instrument :

MSVOA_V

ClientSampleId :

H0B07

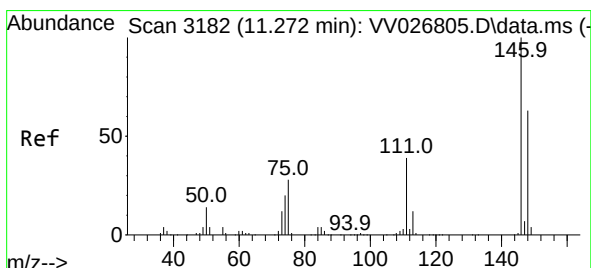
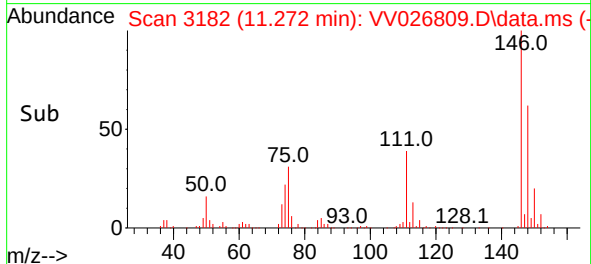
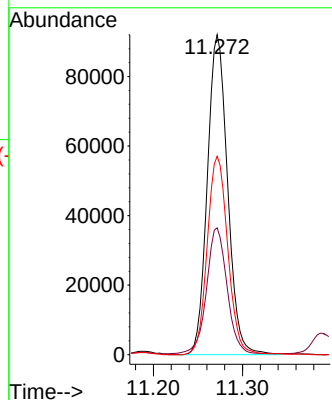
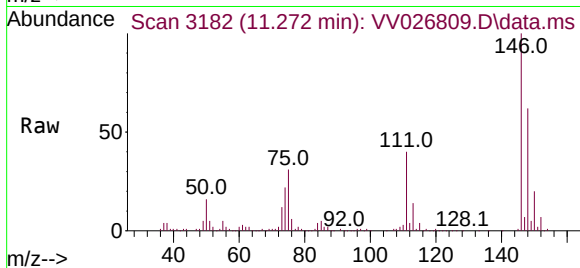
Tgt Ion:146 Resp: 145081

Ion Ratio Lower Upper

146 100

111 39.7 27.9 51.7

148 62.0 44.9 83.5



#65

1,4-Dichlorobenzene

Concen: 4.169 ug/L

RT: 11.272 min Scan# 3182

Delta R.T. -0.000 min

Lab File: VV026809.D

Acq: 18 Jul 2022 14:26

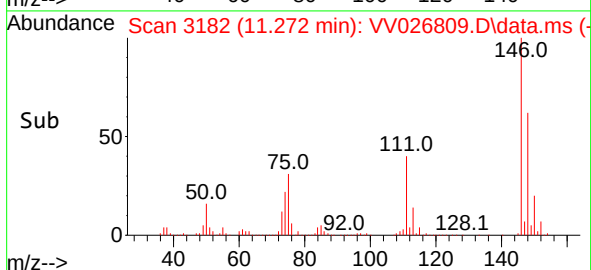
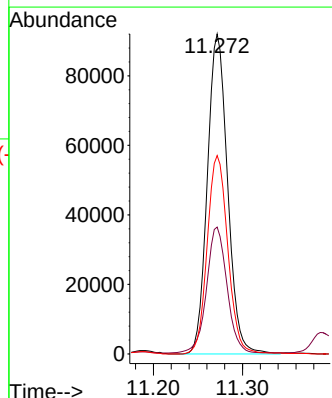
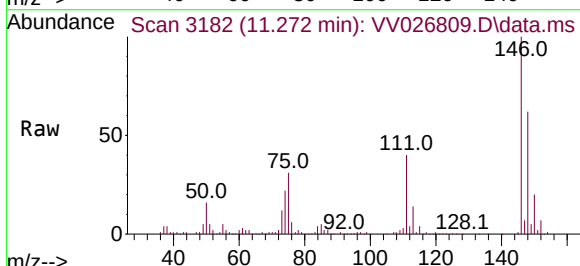
Tgt Ion:146 Resp: 145081

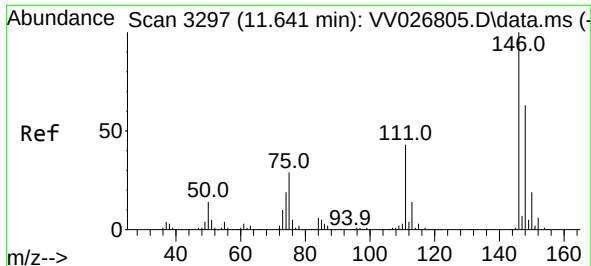
Ion Ratio Lower Upper

146 100

111 39.7 26.8 49.8

148 62.0 43.3 80.5

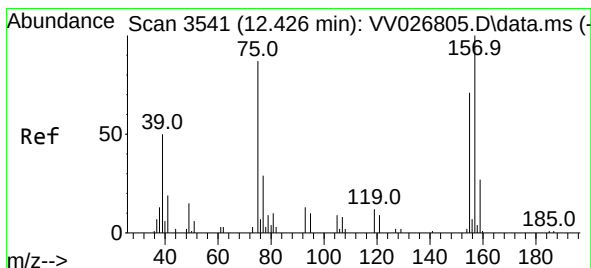
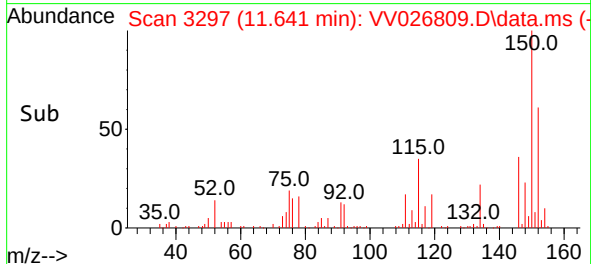
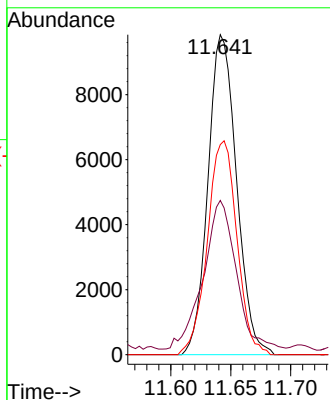
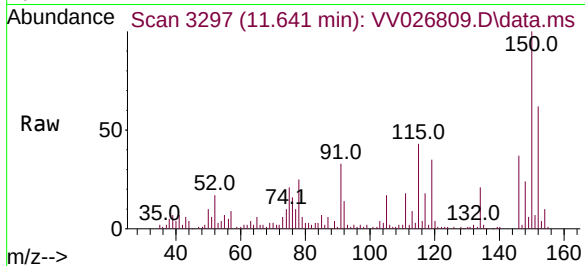




#67
 1,2-Dichlorobenzene
 Concen: 0.510 ug/L
 RT: 11.641 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: VV026809.D
 Acq: 18 Jul 2022 14:26

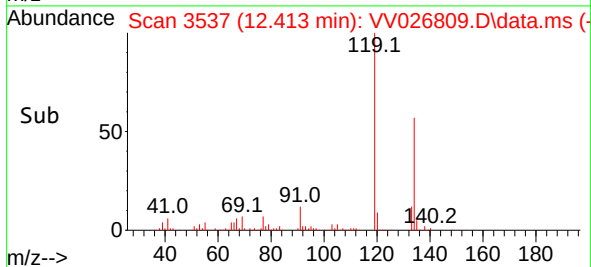
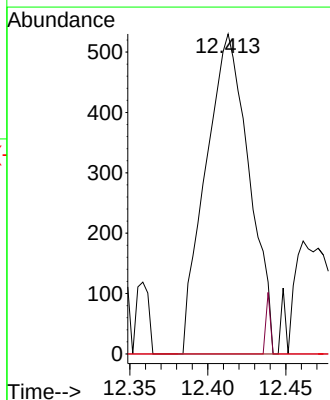
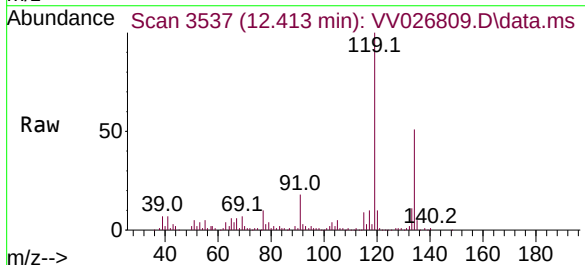
Instrument :
 MSVOA_V
 ClientSampleId :
 H0B07

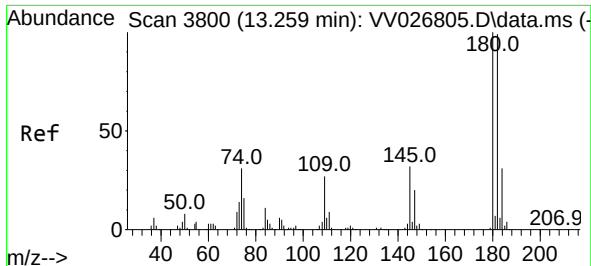
Tgt Ion:146 Resp: 16313
 Ion Ratio Lower Upper
 146 100
 111 48.2 34.6 52.0
 148 65.7 51.0 76.4



#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.470 ug/L
 RT: 12.413 min Scan# 3537
 Delta R.T. -0.013 min
 Lab File: VV026809.D
 Acq: 18 Jul 2022 14:26

Tgt Ion: 75 Resp: 1029
 Ion Ratio Lower Upper
 75 100
 155 0.0 60.3 90.5#
 157 0.0 78.2 117.4#

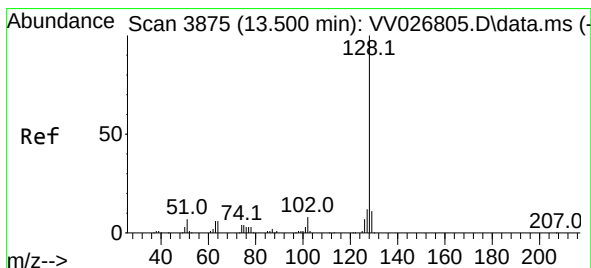
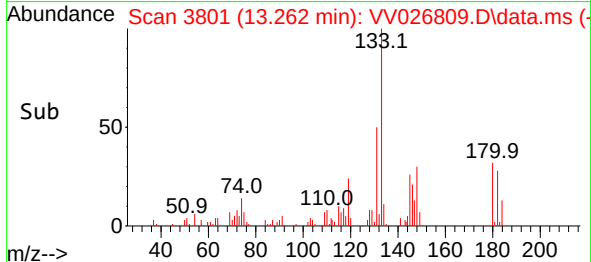
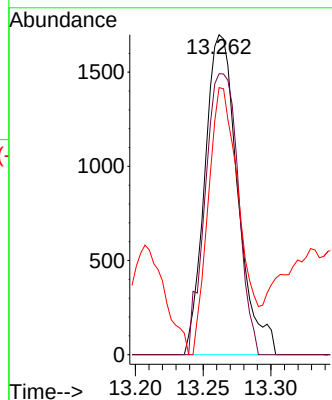
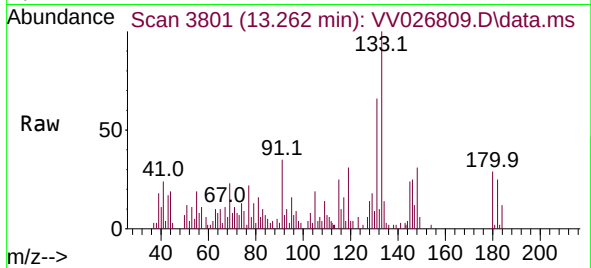




#70
1,2,4-trichlorobenzene
Concen: 0.156 ug/L
RT: 13.262 min Scan# 3801
Delta R.T. 0.003 min
Lab File: VV026809.D
Acq: 18 Jul 2022 14:26

Instrument :
MSVOA_V
ClientSampleId :
H0B07

Tgt Ion:180 Resp: 2878
Ion Ratio Lower Upper
180 100
182 87.7 74.7 112.1
145 79.2 24.7 37.1#



#71
Naphthalene
Concen: 28.996 ug/L
RT: 13.500 min Scan# 3875
Delta R.T. -0.000 min
Lab File: VV026809.D
Acq: 18 Jul 2022 14:26

Tgt Ion:128 Resp: 883756
Ion Ratio Lower Upper
128 100
129 10.9 8.4 12.6
127 12.9 10.7 16.1

