

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW072922\
 Data File : VW027106.D
 Acq On : 30 Jul 2022 00:41
 Operator : SY/MD
 Sample : N3956-03
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXF02

Quant Time: Jul 30 04:29:00 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVLM072822WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jul 30 01:28:32 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.613	114	579970	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.850	117	615482	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.246	152	326175	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.301	65	165870	30.062	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	60.120%
7) Chloroethane-d5	1.564	69	148524	33.974	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	67.940%#
11) 1,1-Dichloroethene-d2	2.101	63	232579	24.759	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	49.520%#
21) 2-Butanone-d5	3.883	46	227331	72.256	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	72.260%
24) Chloroform-d	4.343	84	380890	38.328	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	76.660%
26) 1,2-Dichloroethane-d4	5.027	65	241231	42.762	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	85.520%
32) Benzene-d6	5.047	84	811329	37.538	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	75.080%
36) 1,2-Dichloropropane-d6	6.066	67	259025	39.156	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	78.320%
41) Toluene-d8	7.313	98	724582	37.090	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	74.180%#
43) trans-1,3-Dichloroprop...	7.619	79	119155	40.776	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	81.560%
47) 2-Hexanone-d5	8.085	63	267336	94.006	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	94.010%
56) 1,1,2,2-Tetrachloroeth...	10.214	84	395140	39.616	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	79.240%
66) 1,2-Dichlorobenzene-d4	11.622	152	297144	40.525	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	81.060%
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.307	62	67646	11.587	ug/L	98
8) Chloroethane	1.465	64	131825	38.458	ug/L #	52
13) Acetone	2.169	43	8347	3.582	ug/L	95
14) Carbon disulfide	2.288	76	79535	5.934	ug/L	98
17) trans-1,2-Dichloroethene	2.757	96	3548	0.767	ug/L	98
19) 1,1-Dichloroethane	3.185	63	19565	2.422	ug/L	96
20) cis-1,2-Dichloroethene	3.912	96	7177	1.501	ug/L	97
27) 1,2-Dichloroethane	5.095	62	167788	28.635	ug/L #	71
29) Cyclohexane	4.674	56	13057	1.974	ug/L	93
33) Benzene	5.095	78	16905024	852.283	ug/L	100
34) Trichloroethene	5.912	95	17678	3.463	ug/L	98
35) Methylcyclohexane	6.127	83	24220	3.180	ug/L	91
37) 1,2-Dichloropropane	6.172	63	5134	1.034	ug/L	98
40) 4-Methyl-2-pentanone	7.233	43	21646	3.447	ug/L	92
42) Toluene	7.384	91	2871523	140.412	ug/L	99
44) trans-1,3-Dichloropropene	7.619	75	6206	0.896	ug/L	88
45) 1,1,2-Trichloroethane	7.783	97	53075	9.986	ug/L #	1
52) Ethylbenzene	9.011	91	164849	7.961	ug/L	98
53) m,p-Xylene	9.137	106	102601	12.597	ug/L	99

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

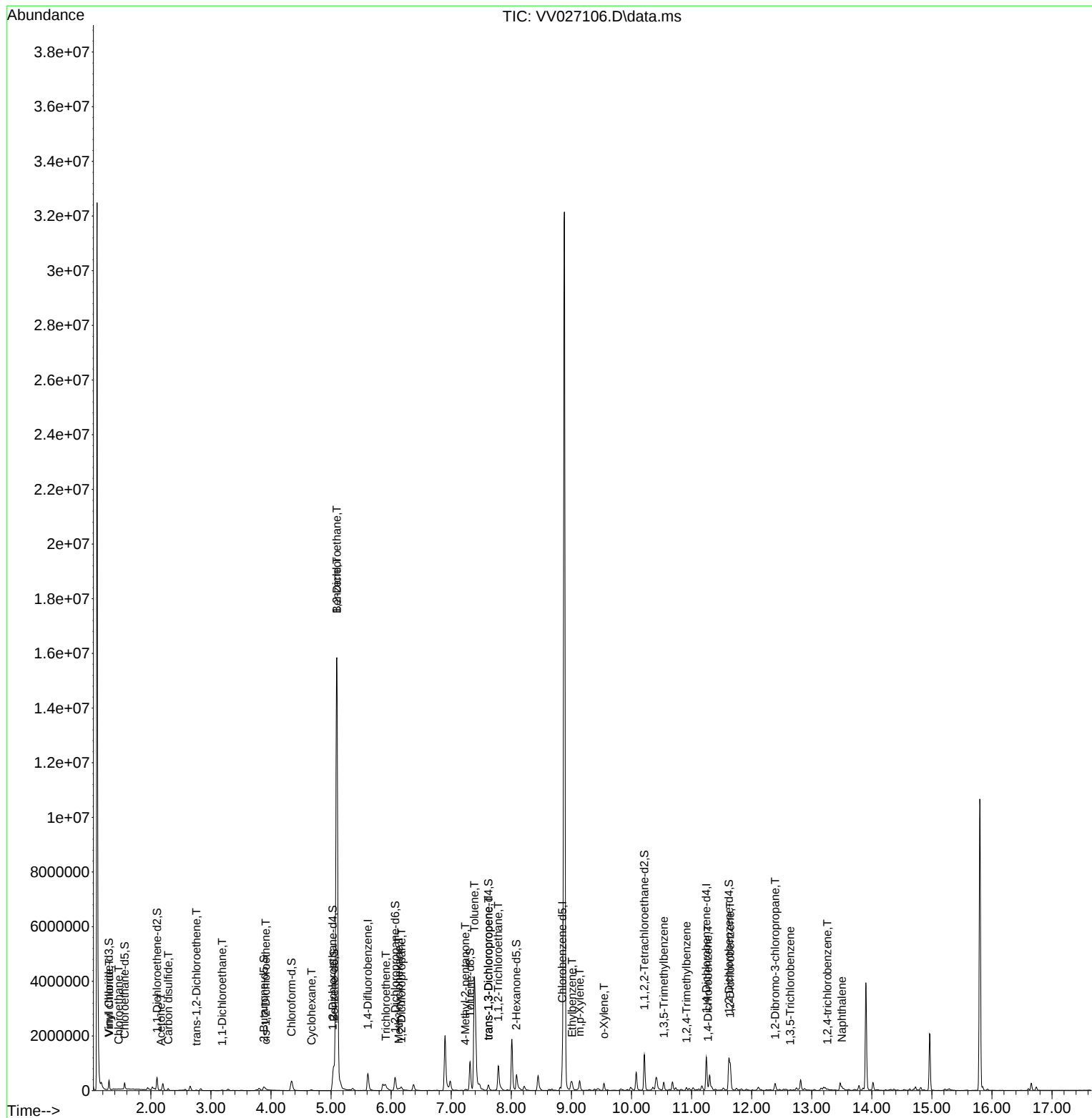
54) o-Xylene	9.542	106	71573	9.125	ug/L	100
62) 1,3,5-Trimethylbenzene	10.538	105	17402	1.997	ug/L	96
63) 1,2,4-Trimethylbenzene	10.915	105	58233	8.376	ug/L	98
65) 1,4-Dichlorobenzene	11.271	146	26775	2.571	ug/L	98
67) 1,2-Dichlorobenzene	11.641	146	63113	6.116	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.390	75	34101	19.014	ug/L #	4
69) 1,3,5-Trichlorobenzene	12.644	180	5650	0.843	ug/L	97
70) 1,2,4-trichlorobenzene	13.262	180	7937	1.384	ug/L	98
71) Naphthalene	13.503	128	103366	5.179	ug/L	99

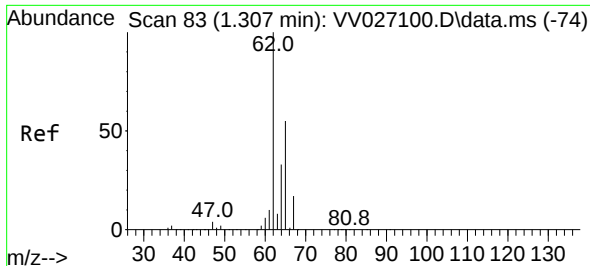
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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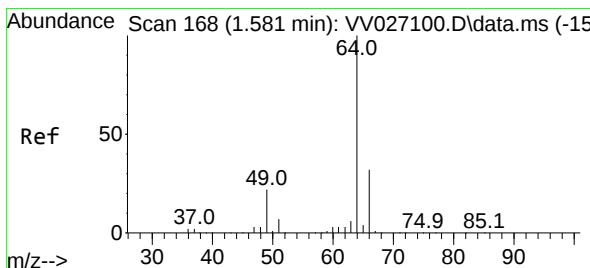
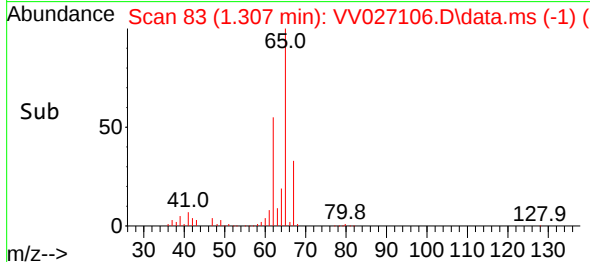
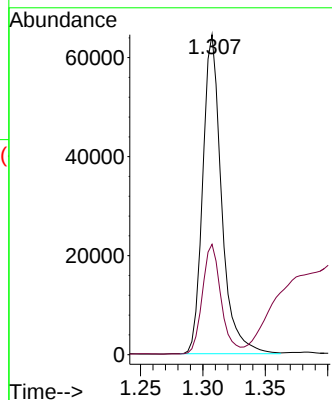
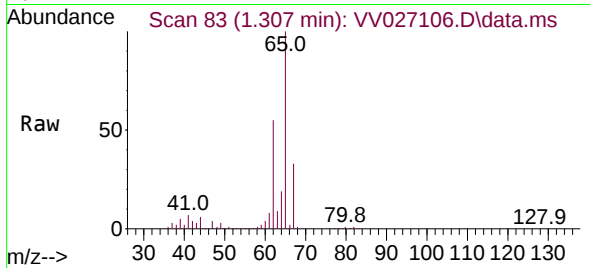




#5
 Vinyl chloride
 Concen: 11.587 ug/L
 RT: 1.307 min Scan# 81
 Delta R.T. 0.000 min
 Lab File: VV027106.D
 Acq: 30 Jul 2022 00:41

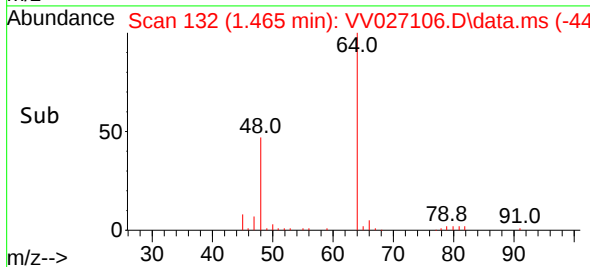
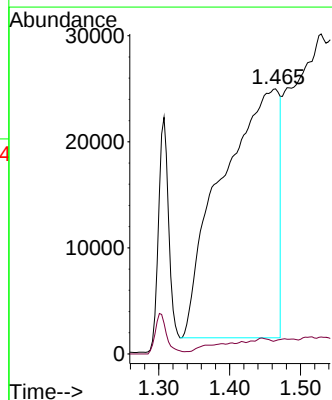
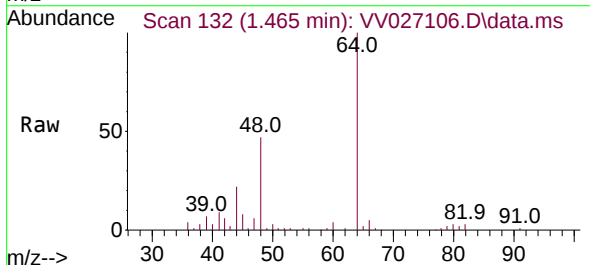
Instrument :
 MSVOA_V
 ClientSampleId :
 EXF02

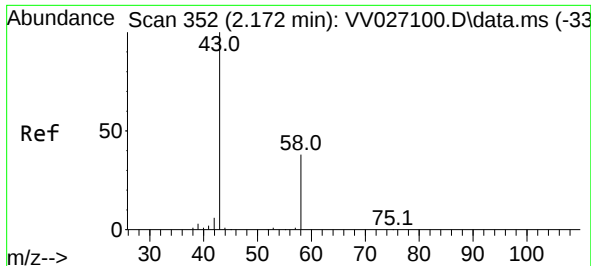
Tgt Ion: 62 Resp: 67646
 Ion Ratio Lower Upper
 62 100
 64 34.5 23.2 43.2



#8
 Chloroethane
 Concen: 38.458 ug/L
 RT: 1.465 min Scan# 132
 Delta R.T. -0.116 min
 Lab File: VV027106.D
 Acq: 30 Jul 2022 00:41

Tgt Ion: 64 Resp: 131825
 Ion Ratio Lower Upper
 64 100
 66 5.0 22.4 41.6#





#13

Acetone

Concen: 3.582 ug/L

RT: 2.169 min Scan# 351

Delta R.T. -0.003 min

Lab File: VV027106.D

Acq: 30 Jul 2022 00:41

Instrument :

MSVOA_V

ClientSampleId :

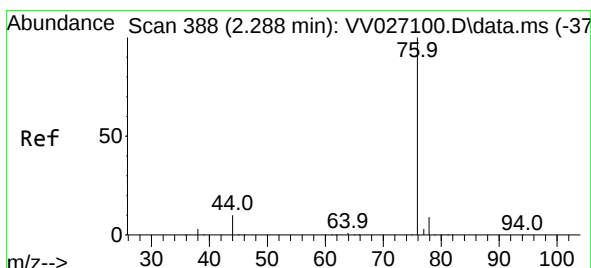
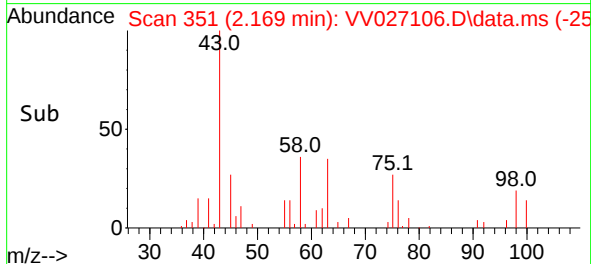
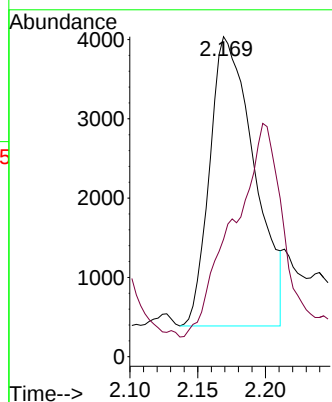
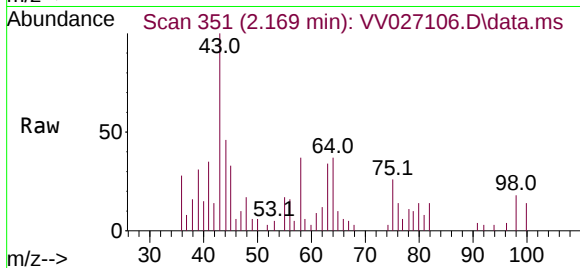
EXF02

Tgt Ion: 43 Resp: 8347

Ion Ratio Lower Upper

43 100

58 22.5 0.0 49.6



#14

Carbon disulfide

Concen: 5.934 ug/L

RT: 2.288 min Scan# 388

Delta R.T. 0.000 min

Lab File: VV027106.D

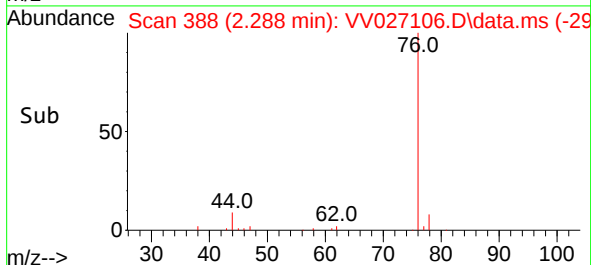
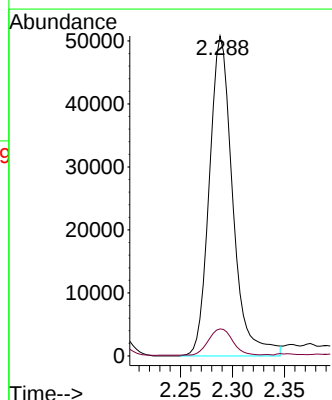
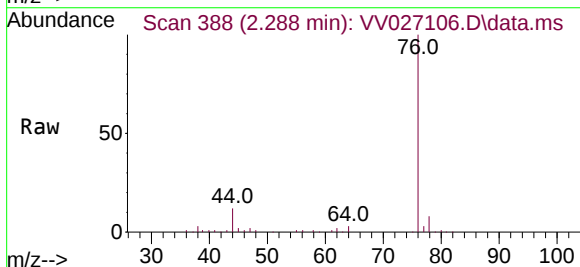
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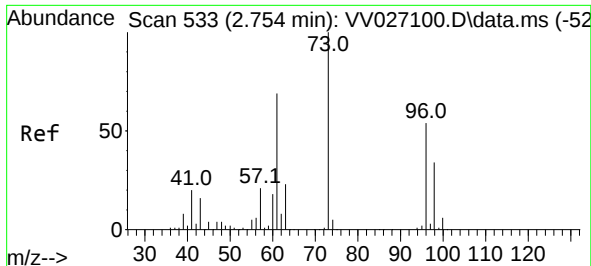
Tgt Ion: 76 Resp: 79535

Ion Ratio Lower Upper

76 100

78 8.5 7.3 10.9

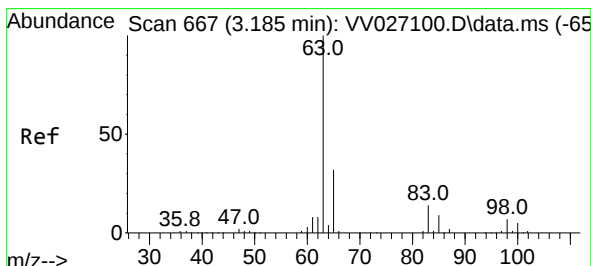
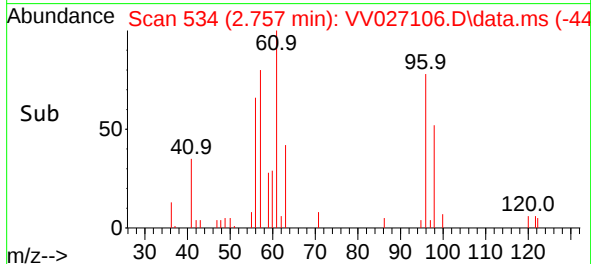
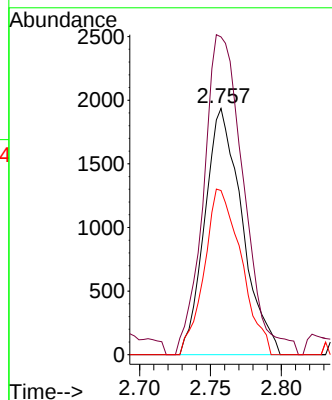
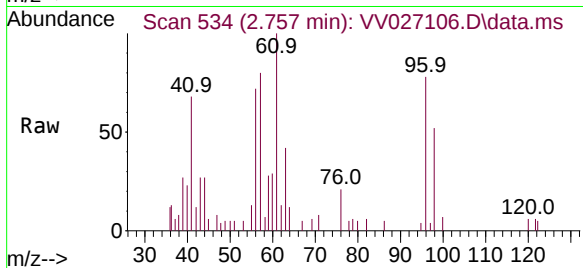




#17
trans-1,2-Dichloroethene
Concen: 0.767 ug/L
RT: 2.757 min Scan# 51
Delta R.T. 0.003 min
Lab File: VV027106.D
Acq: 30 Jul 2022 00:41

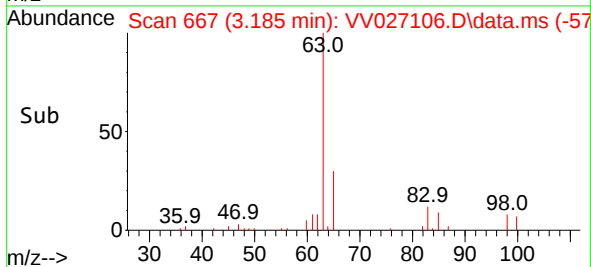
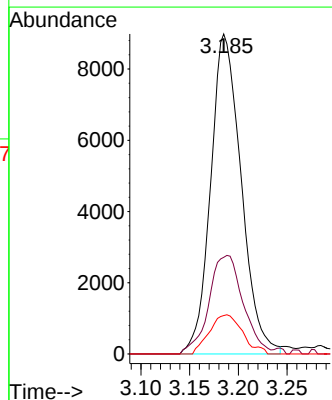
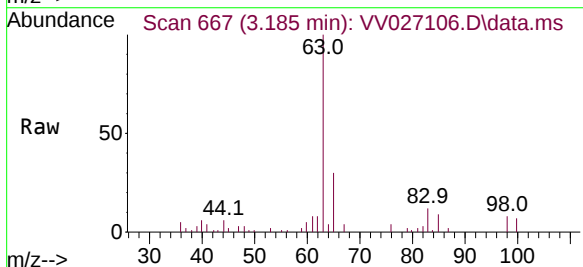
Instrument :
MSVOA_V
ClientSampleId :
EXF02

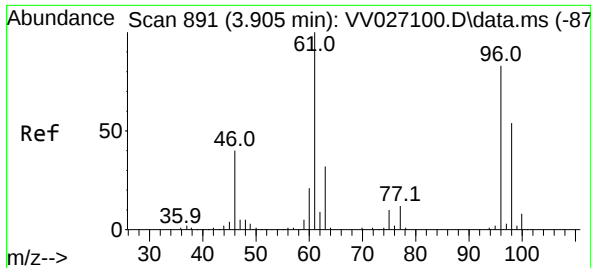
Tgt Ion: 96 Resp: 3548
Ion Ratio Lower Upper
96 100
61 129.0 89.2 165.6
98 66.7 44.6 82.8



#19
1,1-Dichloroethane
Concen: 2.422 ug/L
RT: 3.185 min Scan# 667
Delta R.T. 0.000 min
Lab File: VV027106.D
Acq: 30 Jul 2022 00:41

Tgt Ion: 63 Resp: 19565
Ion Ratio Lower Upper
63 100
65 30.2 22.7 42.3
83 12.0 9.5 17.7

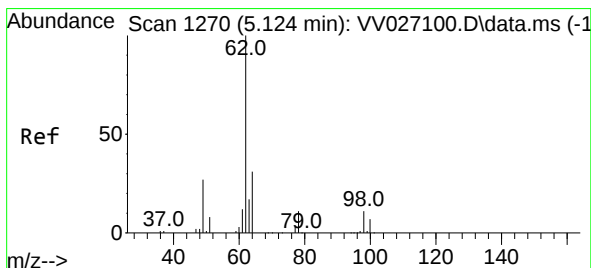
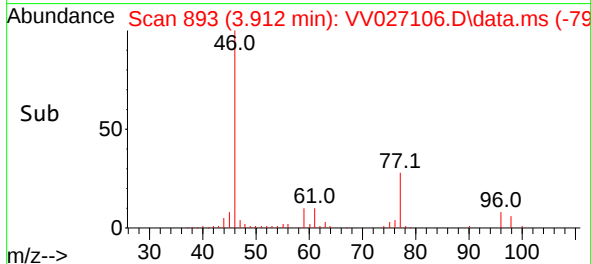
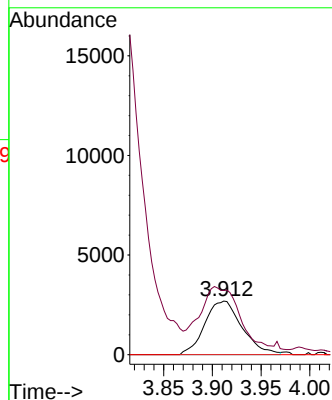
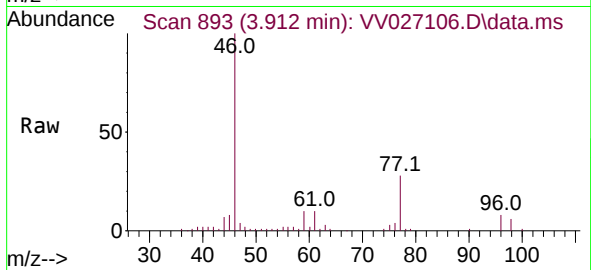




#20
 cis-1,2-Dichloroethene
 Concen: 1.501 ug/L
 RT: 3.912 min Scan# 891
 Delta R.T. 0.006 min
 Lab File: VV027106.D
 Acq: 30 Jul 2022 00:41

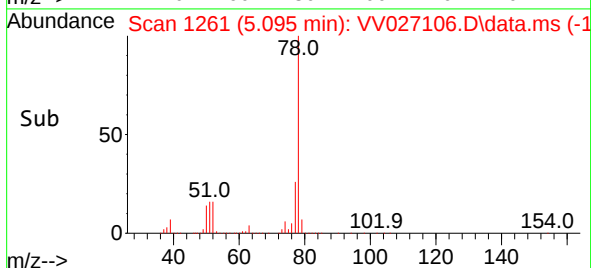
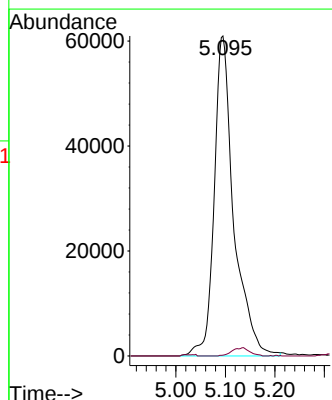
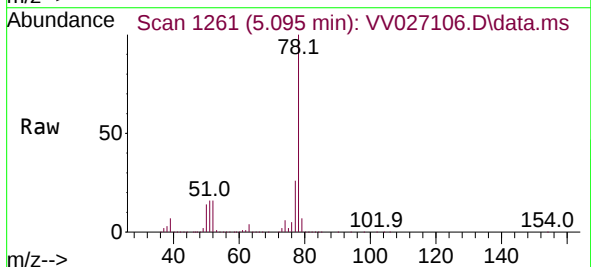
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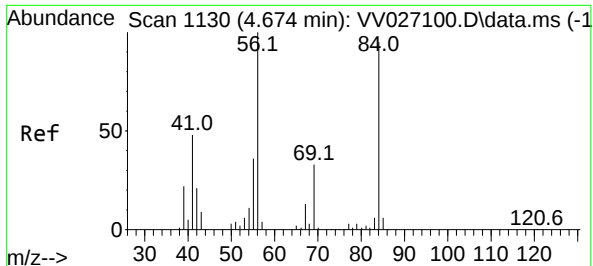
Tgt Ion: 96 Resp: 7177
 Ion Ratio Lower Upper
 96 100
 61 119.6 81.8 151.8
 68 0.0 0.0 0.0



#27
 1,2-Dichloroethane
 Concen: 28.635 ug/L
 RT: 5.095 min Scan# 1261
 Delta R.T. -0.029 min
 Lab File: VV027106.D
 Acq: 30 Jul 2022 00:41

Tgt Ion: 62 Resp: 167788
 Ion Ratio Lower Upper
 62 100
 98 0.2 9.0 13.6#





#29

Cyclohexane

Concen: 1.974 ug/L

RT: 4.674 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VV027106.D

Acq: 30 Jul 2022 00:41

Instrument :

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EXF02

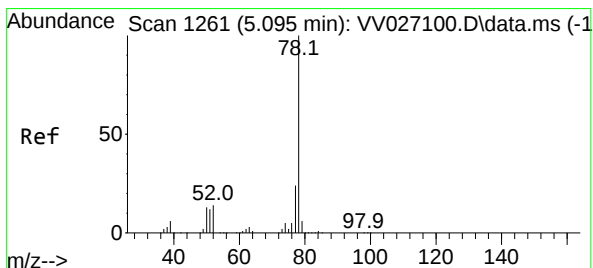
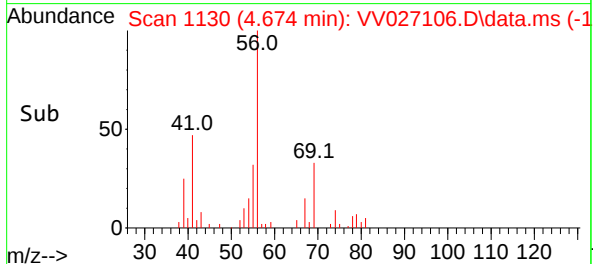
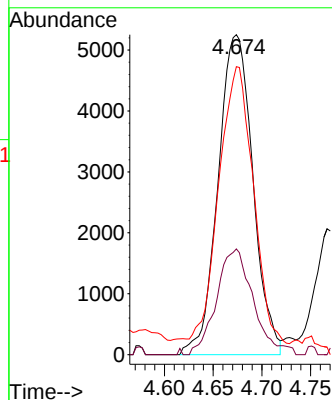
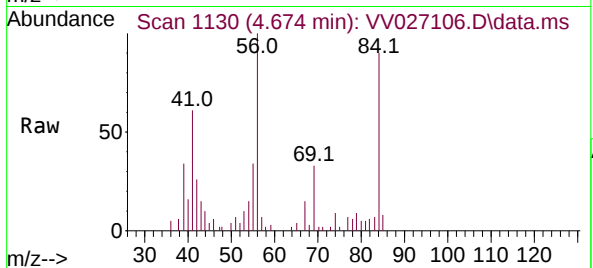
Tgt Ion: 56 Resp: 13057

Ion Ratio Lower Upper

56 100

69 33.8 25.9 38.9

84 85.4 75.3 112.9



#33

Benzene

Concen: 852.283 ug/L

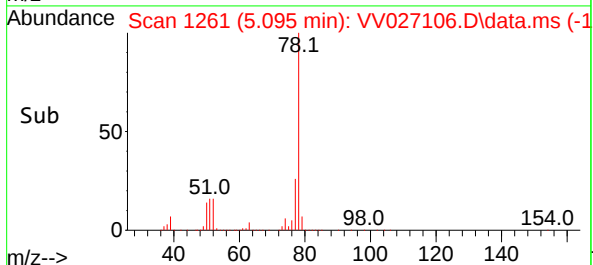
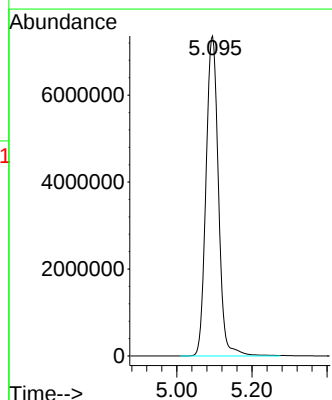
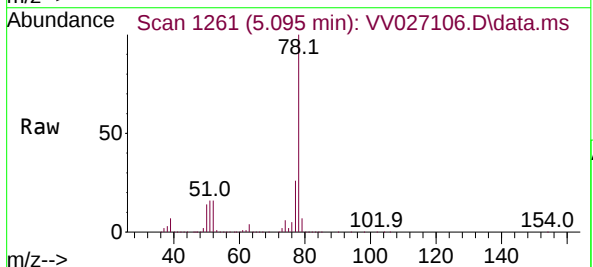
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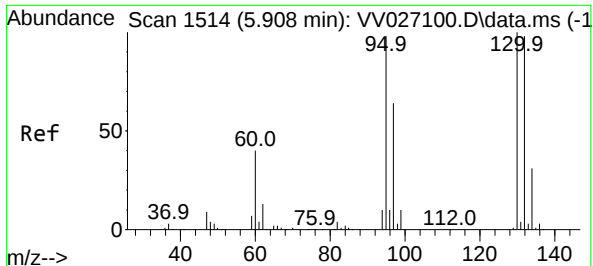
Delta R.T. 0.000 min

Lab File: VV027106.D

Acq: 30 Jul 2022 00:41

Tgt Ion: 78 Resp:16905024





#34

Trichloroethene

Concen: 3.463 ug/L

RT: 5.912 min Scan# 1515

Delta R.T. 0.003 min

Lab File: VV027106.D

Acq: 30 Jul 2022 00:41

Instrument :

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EXF02

Tgt Ion: 95 Resp: 17678

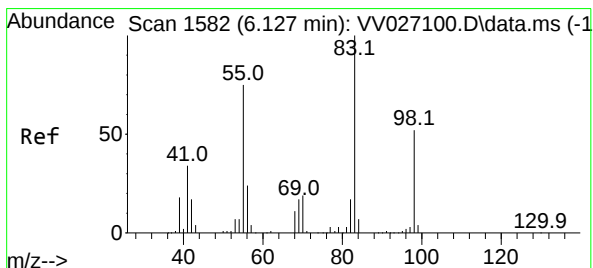
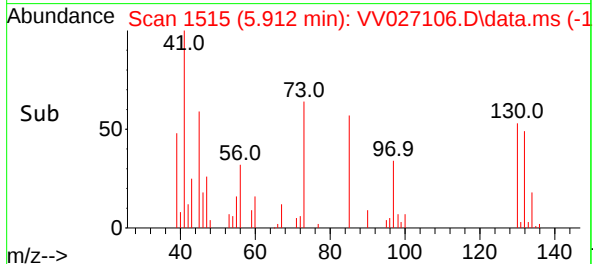
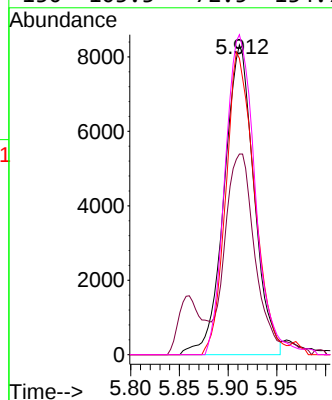
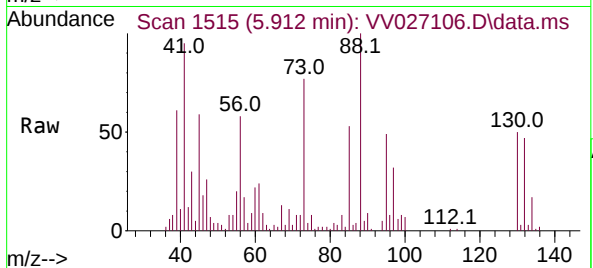
Ion Ratio Lower Upper

95 100

97 64.8 45.9 85.3

132 95.7 69.8 129.6

130 103.3 72.5 134.7



#35

Methylcyclohexane

Concen: 3.180 ug/L

RT: 6.127 min Scan# 1582

Delta R.T. 0.000 min

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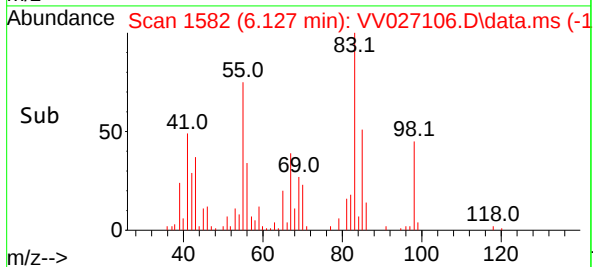
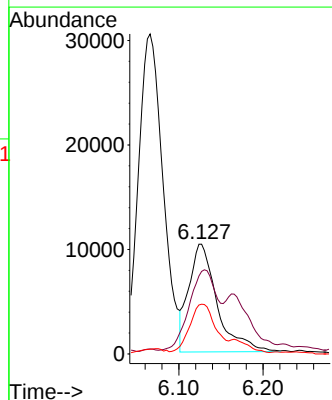
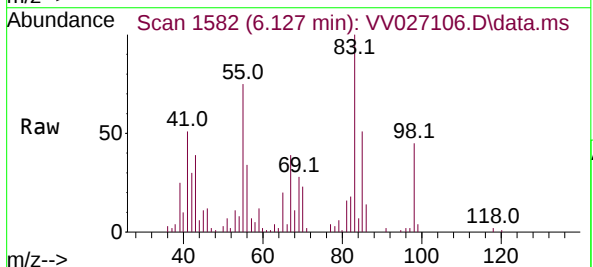
Tgt Ion: 83 Resp: 24220

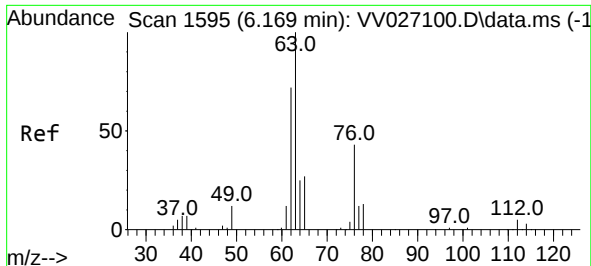
Ion Ratio Lower Upper

83 100

55 73.5 55.5 83.3

98 39.3 39.0 58.4





#37

1,2-Dichloropropane

Concen: 1.034 ug/L

RT: 6.172 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV027106.D

Acq: 30 Jul 2022 00:41

Instrument :

MSVOA_V

ClientSampleId :

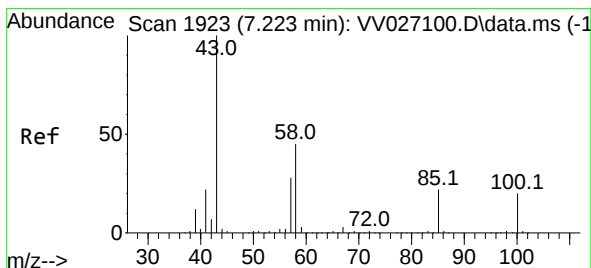
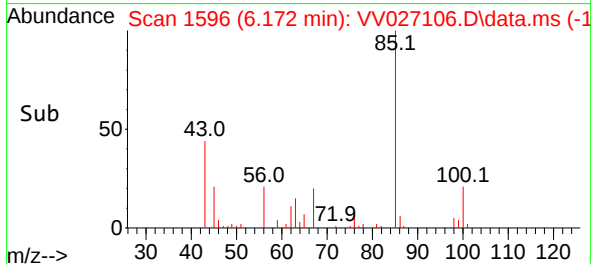
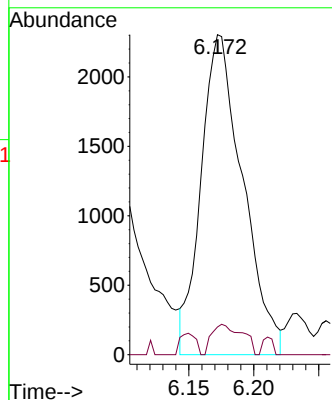
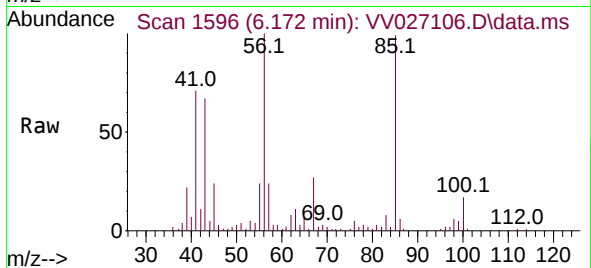
EXF02

Tgt Ion: 63 Resp: 5134

Ion Ratio Lower Upper

63 100

112 5.3 3.7 5.5



#40

4-Methyl-2-pentanone

Concen: 3.447 ug/L

RT: 7.233 min Scan# 1926

Delta R.T. 0.010 min

Lab File: VV027106.D

Acq: 30 Jul 2022 00:41

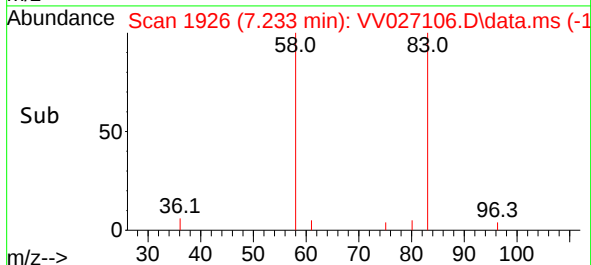
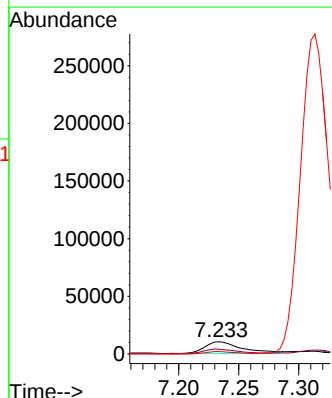
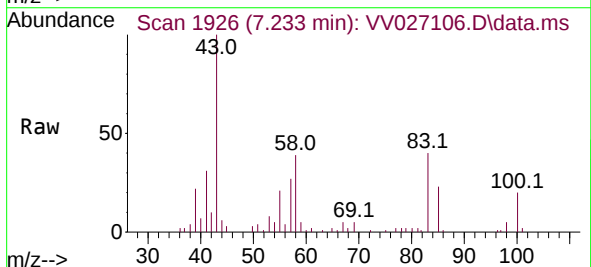
Tgt Ion: 43 Resp: 21646

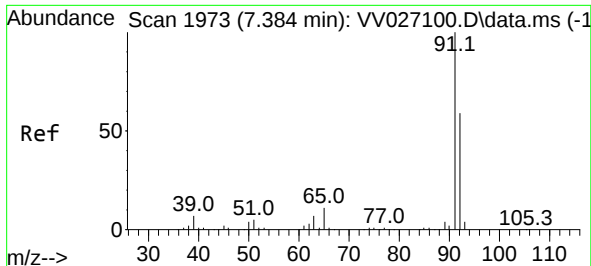
Ion Ratio Lower Upper

43 100

58 37.9 35.3 52.9

100 17.2 15.7 23.5

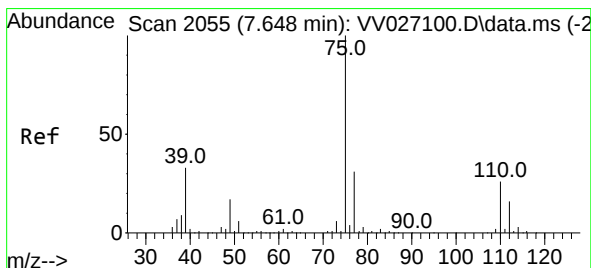
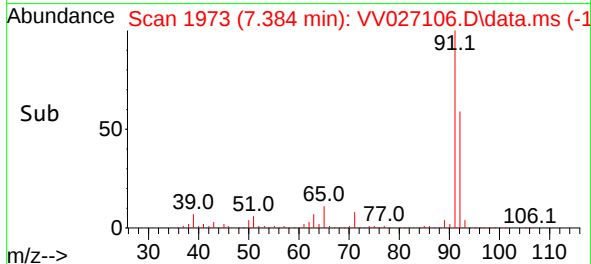
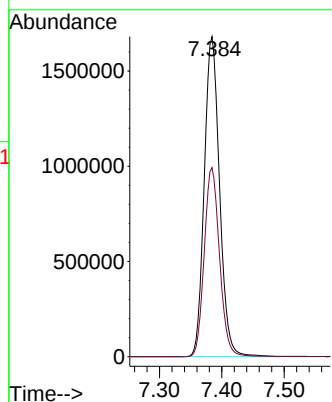
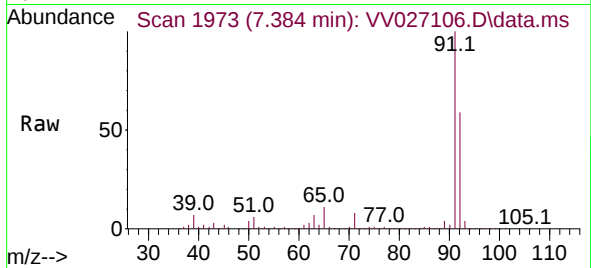




#42
Toluene
Concen: 140.412 ug/L
RT: 7.384 min Scan# 1973
Delta R.T. 0.000 min
Lab File: VV027106.D
Acq: 30 Jul 2022 00:41

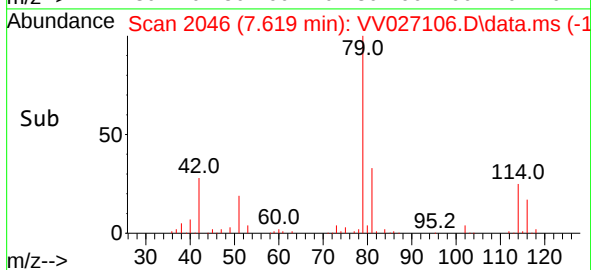
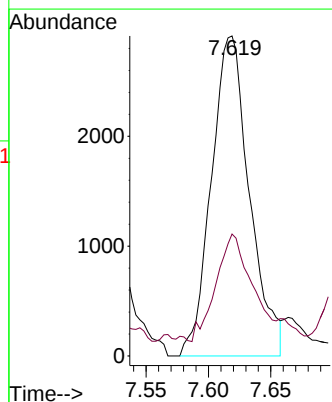
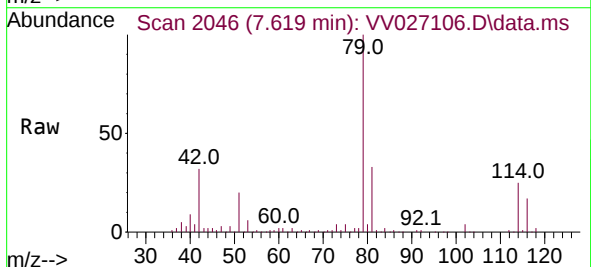
Instrument :
MSVOA_V
ClientSampleId :
EXF02

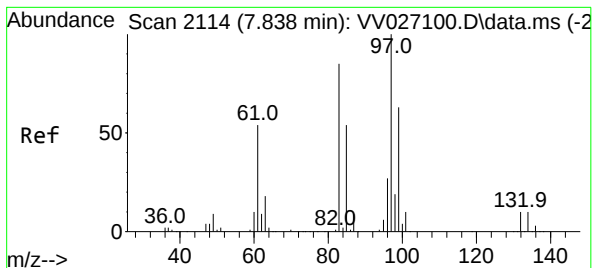
Tgt Ion: 91 Resp: 2871523
Ion Ratio Lower Upper
91 100
92 59.1 40.9 76.0



#44
trans-1,3-Dichloropropene
Concen: 0.896 ug/L
RT: 7.619 min Scan# 2046
Delta R.T. -0.029 min
Lab File: VV027106.D
Acq: 30 Jul 2022 00:41

Tgt Ion: 75 Resp: 6206
Ion Ratio Lower Upper
75 100
77 38.1 22.0 41.0





#45

1,1,2-Trichloroethane

Concen: 9.986 ug/L

RT: 7.783 min Scan# 20

Delta R.T. -0.055 min

Lab File: VV027106.D

Acq: 30 Jul 2022 00:41

Instrument :

MSVOA_V

ClientSampleId :

EXF02

Tgt Ion: 97 Resp: 53075

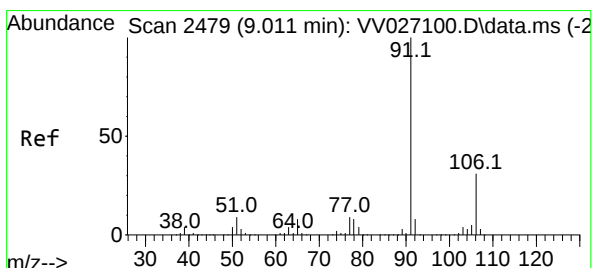
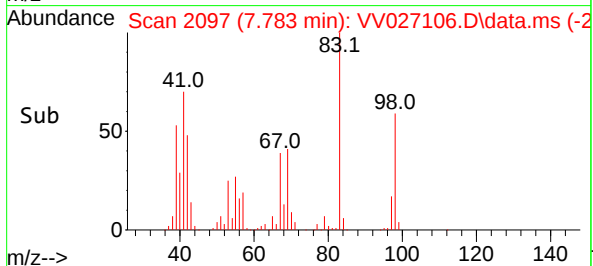
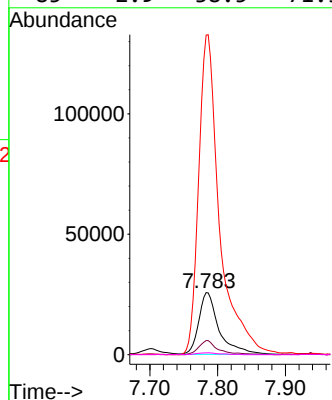
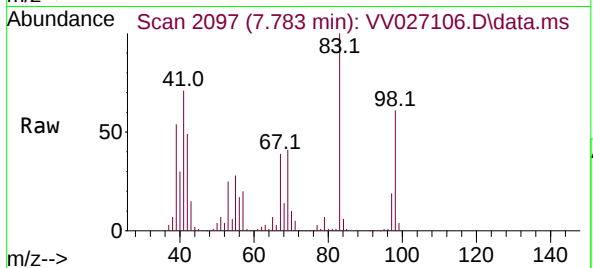
Ion Ratio Lower Upper

97 100

99 22.7 43.2 80.2#

83 514.2 58.0 107.6#

85 2.9 38.5 71.5#



#52

Ethylbenzene

Concen: 7.961 ug/L

RT: 9.011 min Scan# 2479

Delta R.T. 0.000 min

Lab File: VV027106.D

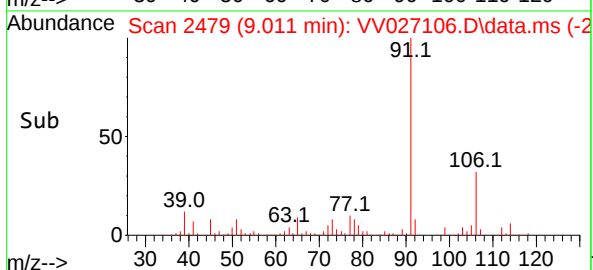
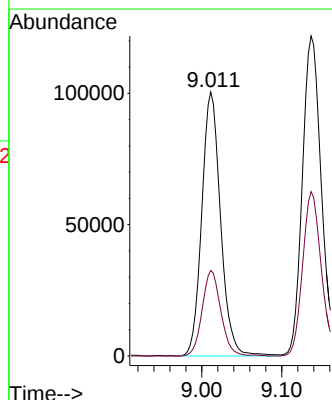
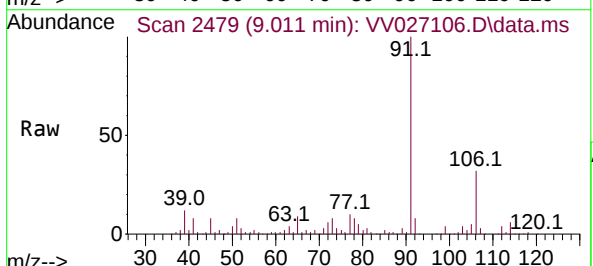
Acq: 30 Jul 2022 00:41

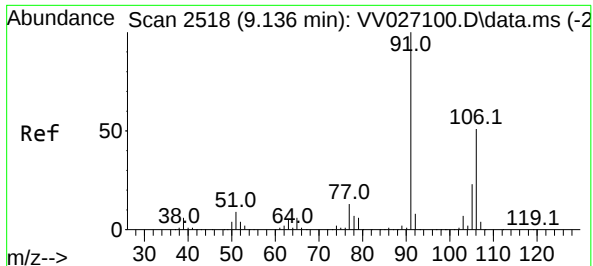
Tgt Ion: 91 Resp: 164849

Ion Ratio Lower Upper

91 100

106 32.4 21.8 40.6

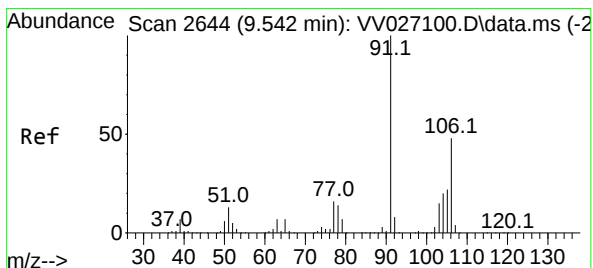
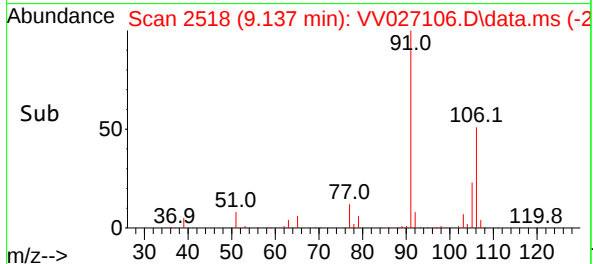
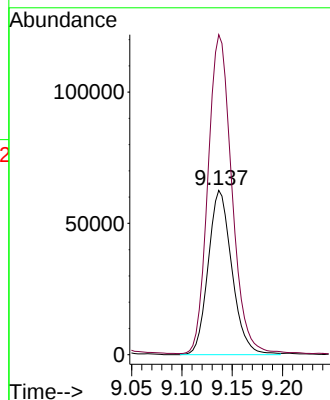
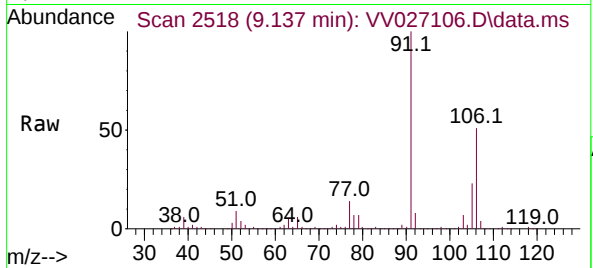




#53
m,p-Xylene
Concen: 12.597 ug/L
RT: 9.137 min Scan# 2518
Delta R.T. 0.000 min
Lab File: VV027106.D
Acq: 30 Jul 2022 00:41

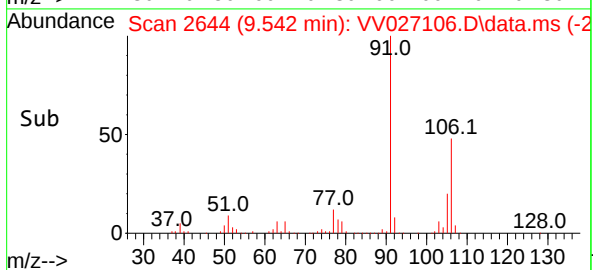
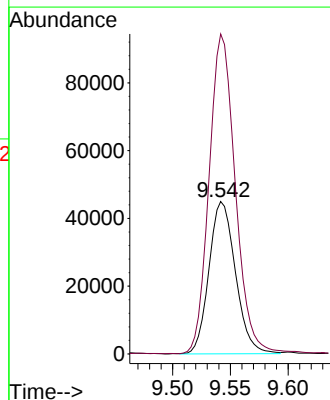
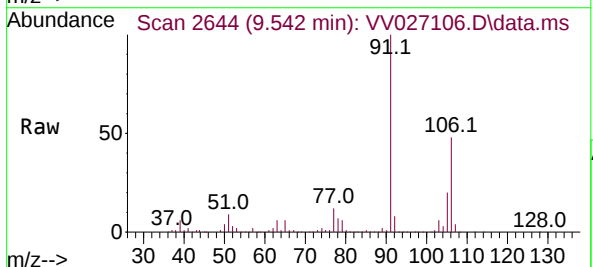
Instrument :
MSVOA_V
ClientSampleId :
EXF02

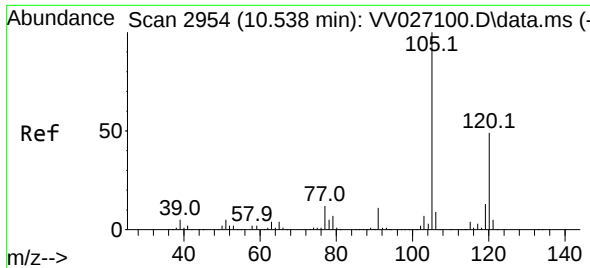
Tgt Ion:106 Resp: 102601
Ion Ratio Lower Upper
106 100
91 194.7 137.5 255.3



#54
o-Xylene
Concen: 9.125 ug/L
RT: 9.542 min Scan# 2644
Delta R.T. 0.000 min
Lab File: VV027106.D
Acq: 30 Jul 2022 00:41

Tgt Ion:106 Resp: 71573
Ion Ratio Lower Upper
106 100
91 209.9 146.6 272.2

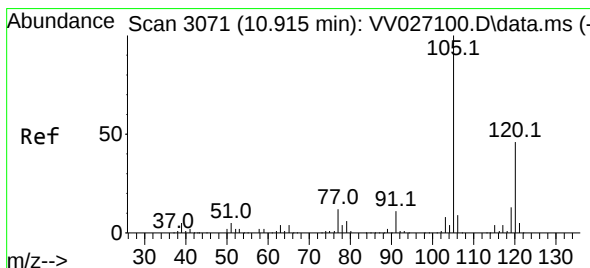
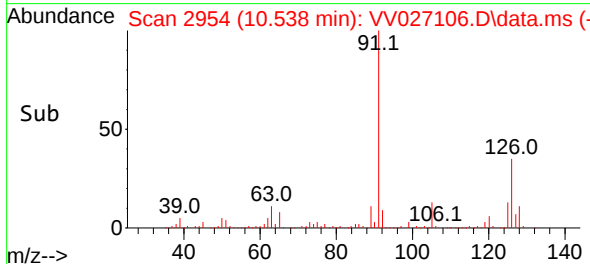
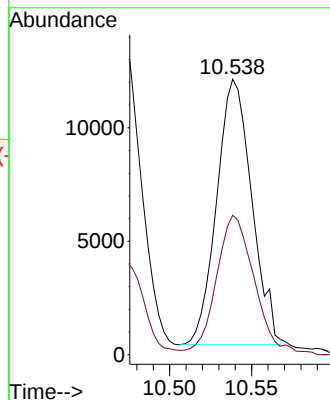
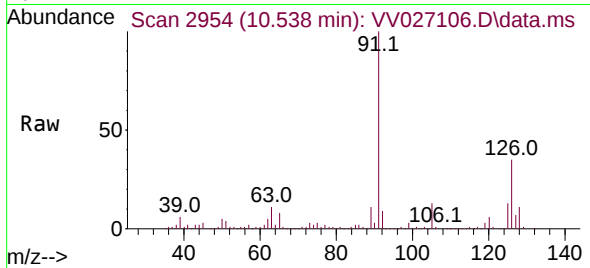




#62
 1,3,5-Trimethylbenzene
 Concen: 1.997 ug/L
 RT: 10.538 min Scan# 2954
 Delta R.T. 0.000 min
 Lab File: VV027106.D
 Acq: 30 Jul 2022 00:41

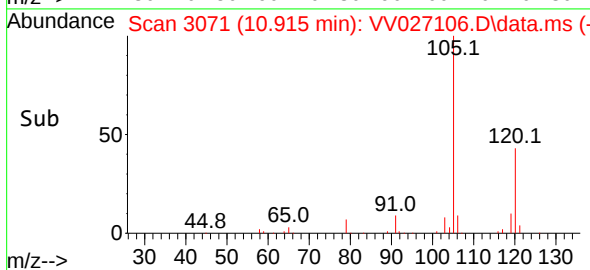
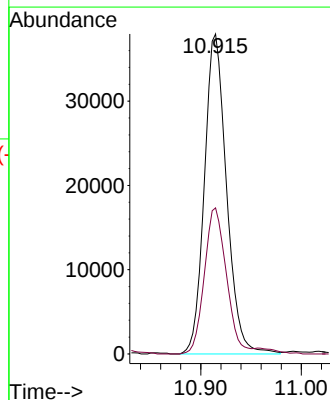
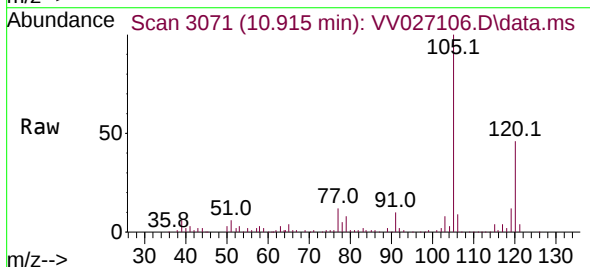
Instrument :
 MSVOA_V
 ClientSampleId :
 EXF02

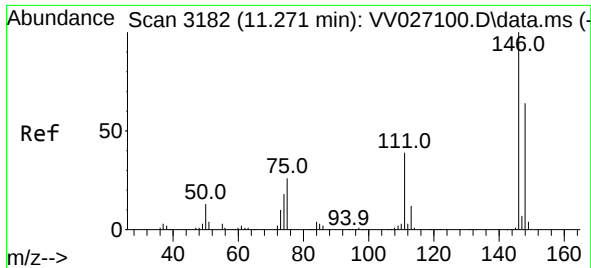
Tgt Ion:105 Resp: 17402
 Ion Ratio Lower Upper
 105 100
 120 51.5 39.3 58.9



#63
 1,2,4-Trimethylbenzene
 Concen: 8.376 ug/L
 RT: 10.915 min Scan# 3071
 Delta R.T. 0.000 min
 Lab File: VV027106.D
 Acq: 30 Jul 2022 00:41

Tgt Ion:105 Resp: 58233
 Ion Ratio Lower Upper
 105 100
 120 45.3 37.0 55.6

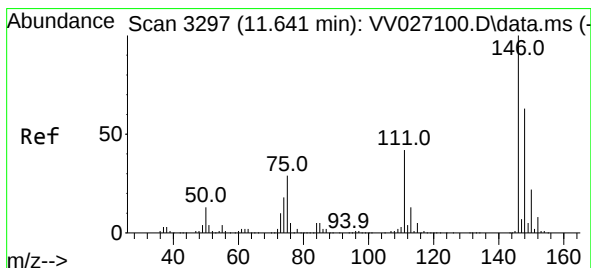
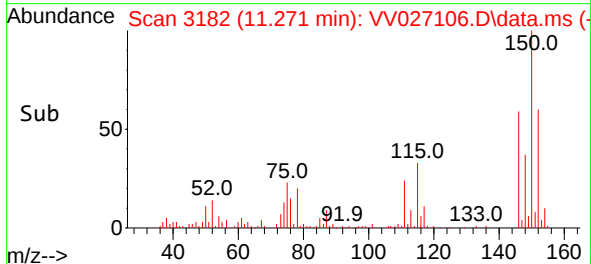
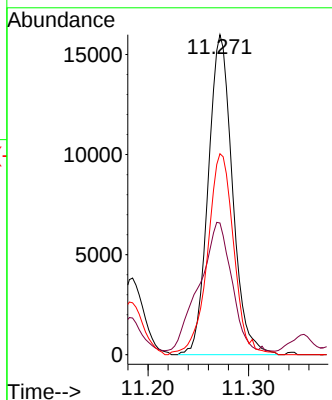
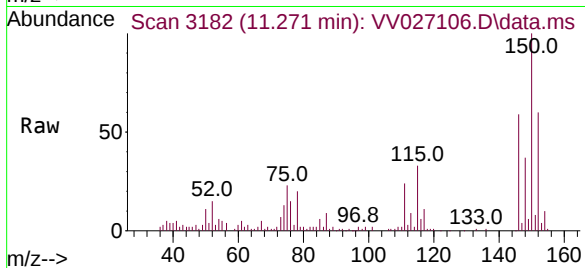




#65
1,4-Dichlorobenzene
Concen: 2.571 ug/L
RT: 11.271 min Scan# 3182
Delta R.T. 0.000 min
Lab File: VV027106.D
Acq: 30 Jul 2022 00:41

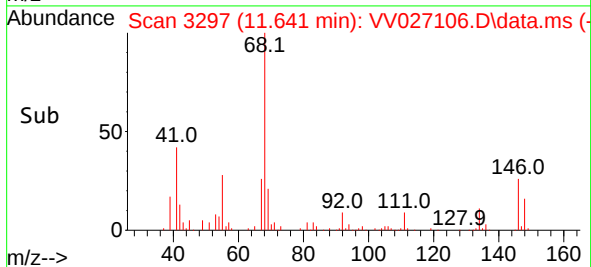
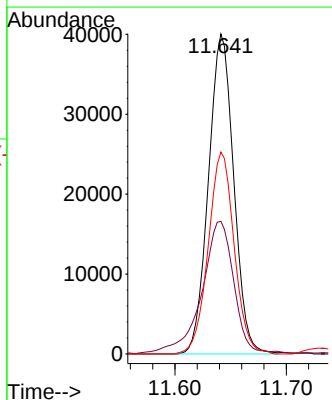
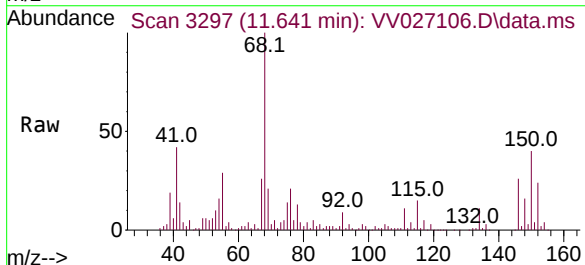
Instrument :
MSVOA_V
ClientSampleId :
EXF02

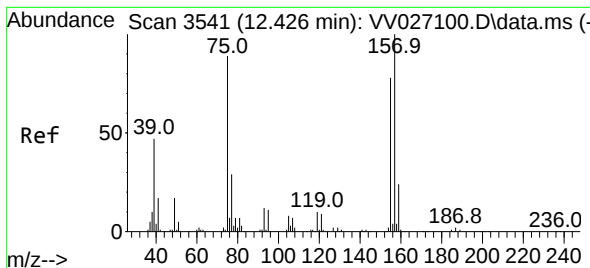
Tgt Ion:146 Resp: 26775
Ion Ratio Lower Upper
146 100
111 41.2 27.4 51.0
148 62.8 44.6 82.8



#67
1,2-Dichlorobenzene
Concen: 6.116 ug/L
RT: 11.641 min Scan# 3297
Delta R.T. 0.000 min
Lab File: VV027106.D
Acq: 30 Jul 2022 00:41

Tgt Ion:146 Resp: 63113
Ion Ratio Lower Upper
146 100
111 41.4 34.0 51.0
148 63.1 50.5 75.7

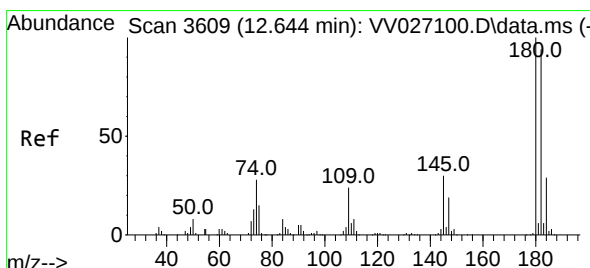
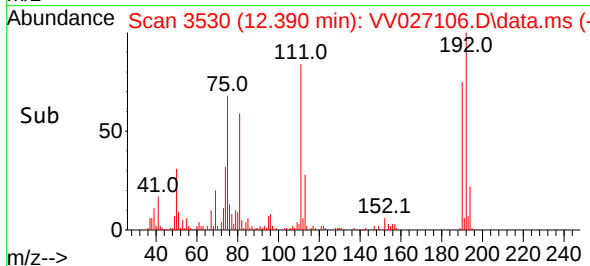
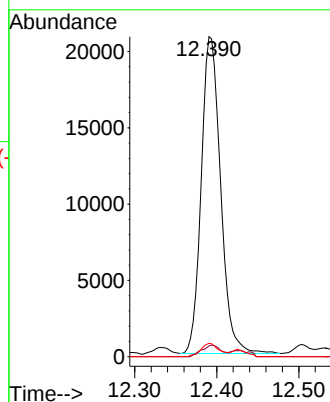
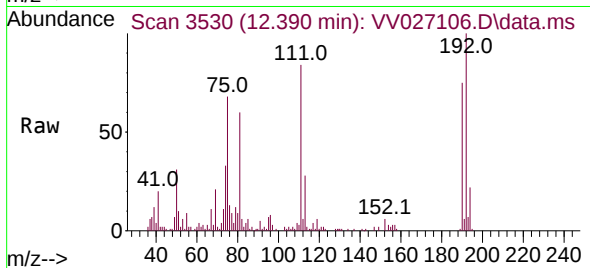




#68
1,2-Dibromo-3-chloropropane
Concen: 19.014 ug/L
RT: 12.390 min Scan# 3530
Delta R.T. -0.035 min
Lab File: VV027106.D
Acq: 30 Jul 2022 00:41

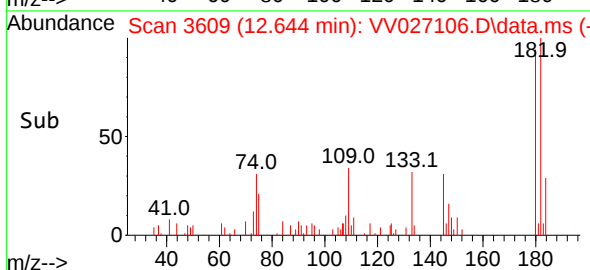
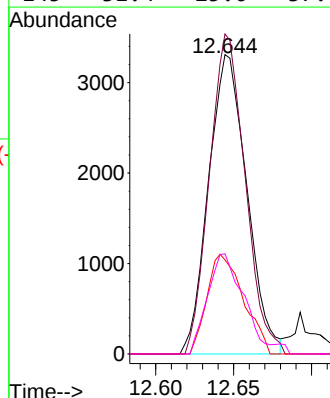
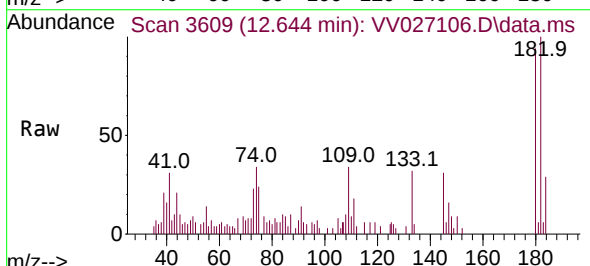
Instrument :
MSVOA_V
ClientSampleId :
EXF02

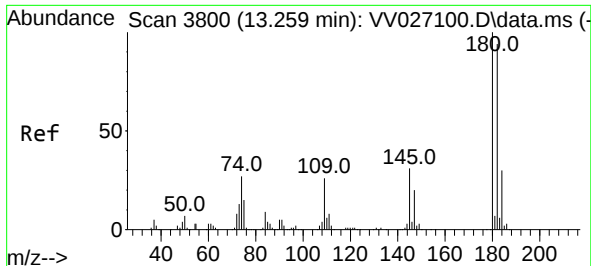
Tgt Ion: 75 Resp: 34101
Ion Ratio Lower Upper
75 100
155 3.3 69.1 103.7#
157 4.1 87.8 131.8#



#69
1,3,5-Trichlorobenzene
Concen: 0.843 ug/L
RT: 12.644 min Scan# 3609
Delta R.T. 0.000 min
Lab File: VV027106.D
Acq: 30 Jul 2022 00:41

Tgt Ion: 180 Resp: 5650
Ion Ratio Lower Upper
180 100
182 99.3 76.2 114.4
184 31.8 24.8 37.2
145 31.4 25.0 37.6

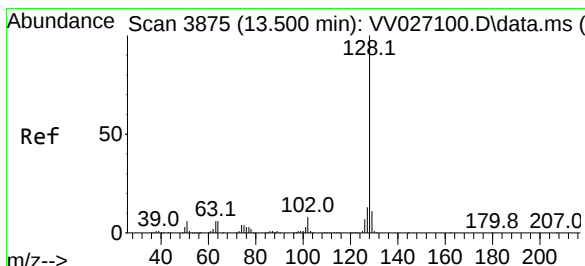
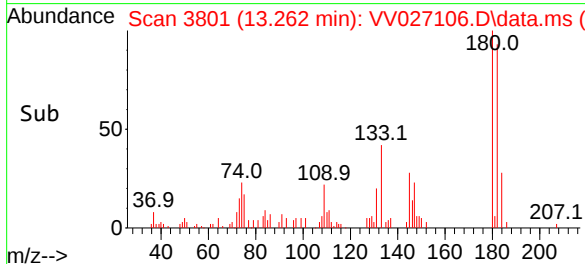
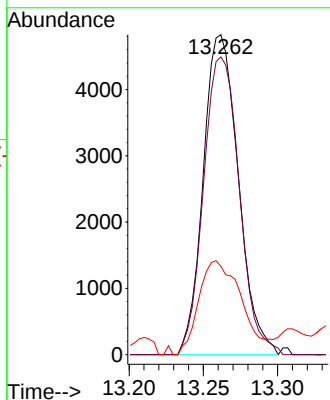
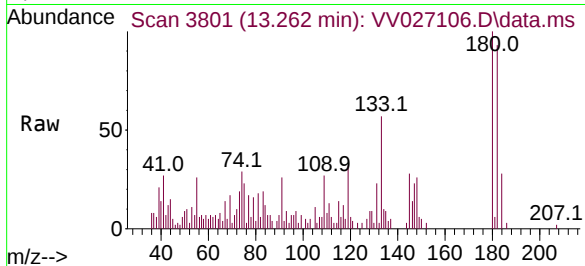




#70
1,2,4-trichlorobenzene
Concen: 1.384 ug/L
RT: 13.262 min Scan# 3801
Delta R.T. 0.003 min
Lab File: VV027106.D
Acq: 30 Jul 2022 00:41

Instrument :
MSVOA_V
ClientSampleId :
EXF02

Tgt Ion:180 Resp: 7937
Ion Ratio Lower Upper
180 100
182 94.9 75.9 113.9
145 36.1 24.7 37.1



#71
Naphthalene
Concen: 5.179 ug/L
RT: 13.503 min Scan# 3876
Delta R.T. 0.003 min
Lab File: VV027106.D
Acq: 30 Jul 2022 00:41

Tgt Ion:128 Resp: 103366
Ion Ratio Lower Upper
128 100
127 12.8 10.3 15.5
129 11.6 8.6 13.0

