

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW072922\
 Data File : VW027105.D
 Acq On : 30 Jul 2022 00:16
 Operator : SY/MD
 Sample : N3956-02
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 EXF01

Quant Time: Jul 30 04:28:42 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	5.616	114	603745	50.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	634179	50.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	356324	50.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.301	65	199242	34.688	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	69.380%
7) Chloroethane-d5	1.561	69	170418	37.447	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	74.900%
11) 1,1-Dichloroethene-d2	2.098	63	279639	28.597	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	57.200%#
21) 2-Butanone-d5	3.889	46	262588	80.175	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	80.180%
24) Chloroform-d	4.343	84	393849	38.072	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	76.140%
26) 1,2-Dichloroethane-d4	5.031	65	237137	40.381	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	80.760%
32) Benzene-d6	5.050	84	856224	38.447	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	76.900%
36) 1,2-Dichloropropane-d6	6.069	67	233956	34.323	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	68.640%#
41) Toluene-d8	7.313	98	741501	36.837	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	73.680%#
43) trans-1,3-Dichloroprop...	7.619	79	107530	35.713	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.420%
47) 2-Hexanone-d5	8.088	63	283618	96.791	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	96.790%
56) 1,1,2,2-Tetrachloroeth...	10.214	84	386965	37.653	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	75.300%
66) 1,2-Dichlorobenzene-d4	11.622	152	316361	39.495	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	79.000%#
Target Compounds						
5) Vinyl chloride	1.304	62	115672	19.033	ug/L	98
8) Chloroethane	1.581	64	9990	2.800	ug/L	94
12) 1,1-Dichloroethene	2.108	96	5682	1.292	ug/L #	1
13) Acetone	2.182	43	421015	173.556	ug/L	85
14) Carbon disulfide	2.285	76	9596	0.688	ug/L	96
15) Methyl Acetate	2.433	43	37244	9.239	ug/L	91
16) Methylene chloride	2.500	84	31919	5.694	ug/L	99
17) trans-1,2-Dichloroethene	2.757	96	10172	2.113	ug/L	95
19) 1,1-Dichloroethane	3.185	63	54164	6.442	ug/L	97
20) cis-1,2-Dichloroethene	3.905	96	113939	22.884	ug/L	99
22) 2-Butanone	3.982	43	62155	23.225	ug/L	94
27) 1,2-Dichloroethane	5.130	62	3968987	650.689	ug/L	100
29) Cyclohexane	4.674	56	65163	9.563	ug/L	99
34) Trichloroethene	5.928	95	393938	74.891	ug/L	99
37) 1,2-Dichloropropane	6.172	63	123565	24.157	ug/L	97
39) cis-1,3-Dichloropropene	6.841	75	62960	8.580	ug/L	100
40) 4-Methyl-2-pentanone	7.233	43	37789	5.841	ug/L	97
42) Toluene	7.384	91	11060728	524.905	ug/L	94
45) 1,1,2-Trichloroethane	7.789	97	27164	4.960	ug/L #	1

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

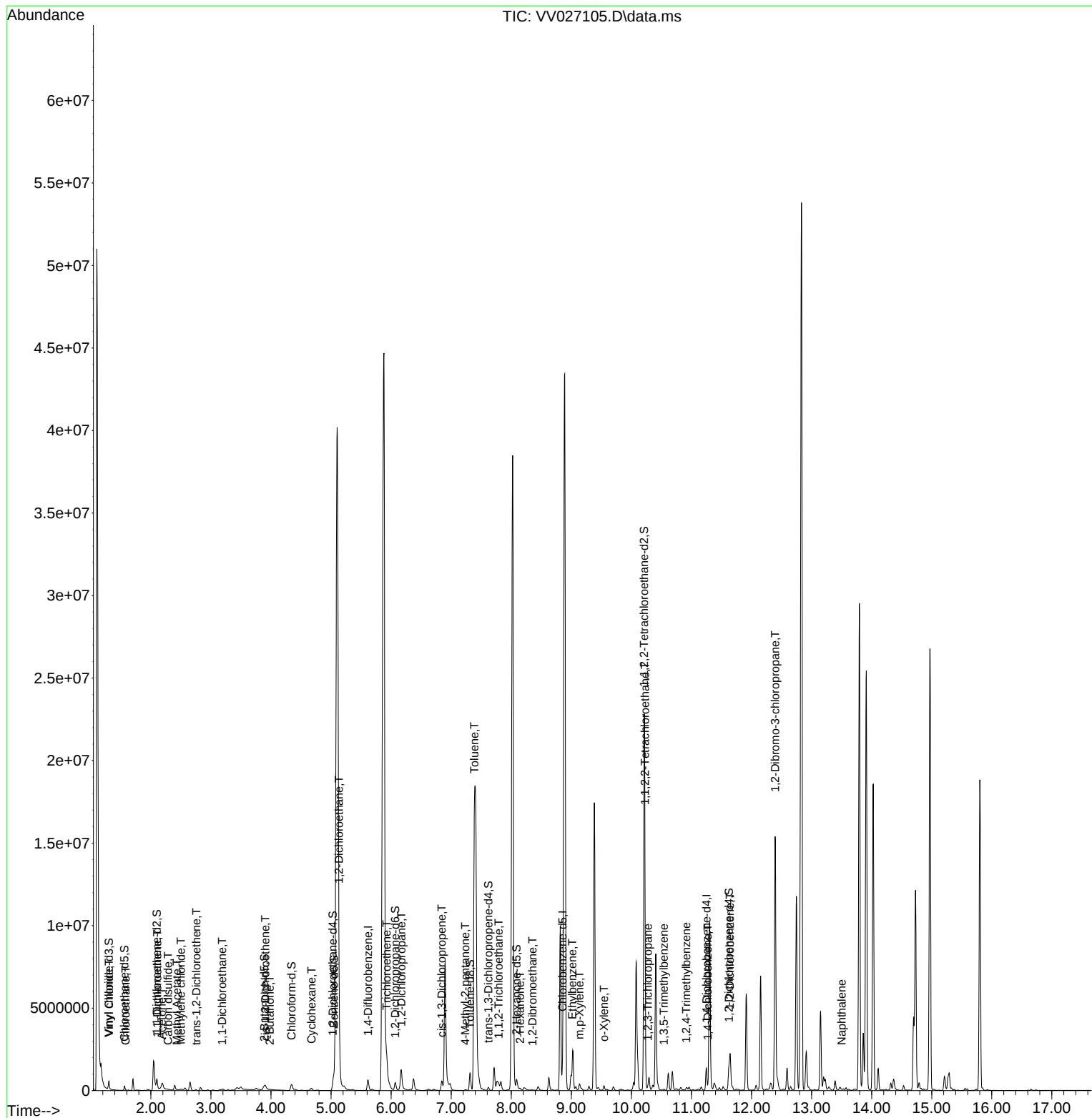
48) 2-Hexanone	8.146	43	70386	13.806	ug/L	97
50) 1,2-Dibromoethane	8.355	107	4936	0.860	ug/L #	98
52) Ethylbenzene	9.014	91	142688	6.687	ug/L	99
53) m,p-Xylene	9.137	106	112952	13.459	ug/L	97
54) o-Xylene	9.545	106	77105	9.540	ug/L	99
57) 1,1,2,2-Tetrachloroethane	10.227	83	129566	14.675	ug/L #	31
61) 1,2,3-Trichloropropane	10.275	75	80497	10.772	ug/L #	65
62) 1,3,5-Trimethylbenzene	10.538	105	24791	2.605	ug/L	98
63) 1,2,4-Trimethylbenzene	10.915	105	57928	7.627	ug/L	99
65) 1,4-Dichlorobenzene	11.271	146	44995	3.956	ug/L	96
67) 1,2-Dichlorobenzene	11.641	146	306727	27.209	ug/L	100
68) 1,2-Dibromo-3-chloropr...	12.394	75	2494009	1272.917	ug/L #	3
71) Naphthalene	13.503	128	44047	2.020	ug/L	97

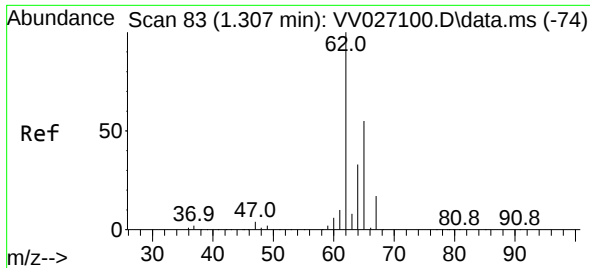
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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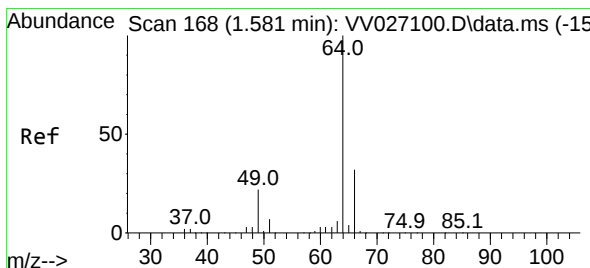
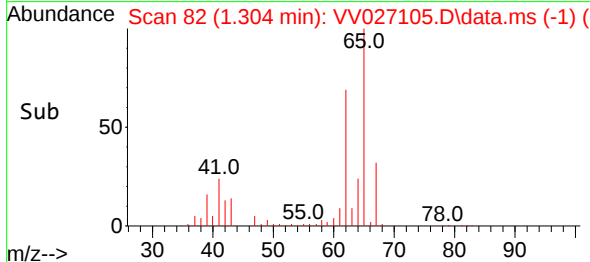
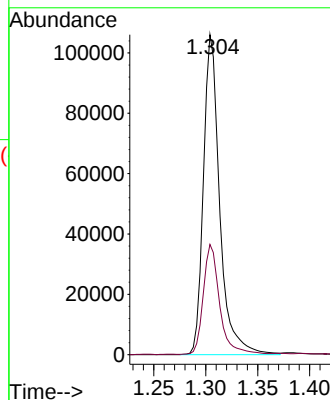
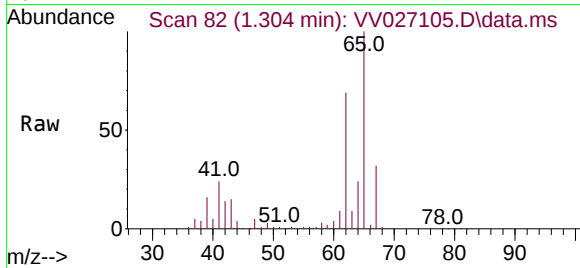




#5
 Vinyl chloride
 Concen: 19.033 ug/L
 RT: 1.304 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VV027105.D
 Acq: 30 Jul 2022 00:16

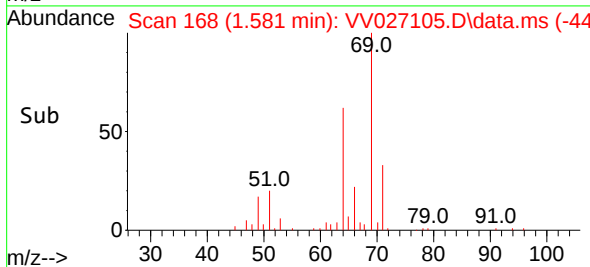
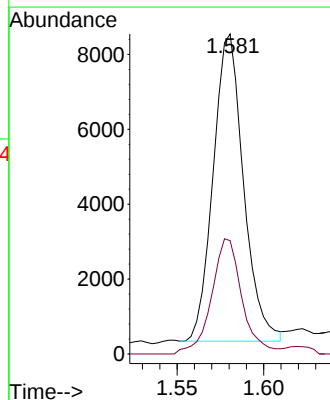
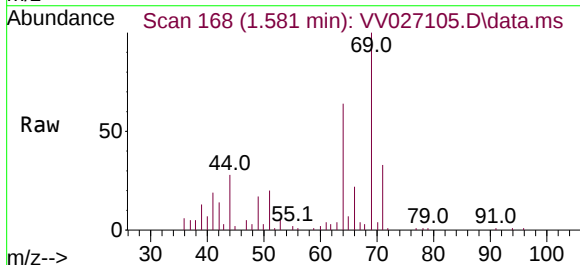
Instrument :
 MSVOA_V
 ClientSampleId :
 EXF01

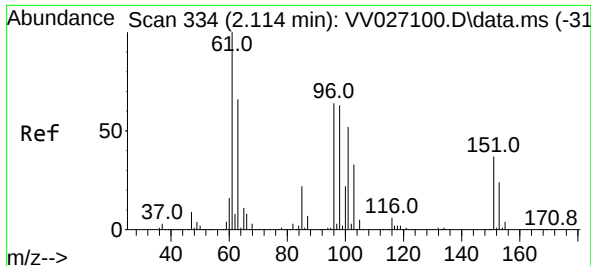
Tgt Ion: 62 Resp: 115672
 Ion Ratio Lower Upper
 62 100
 64 34.4 23.2 43.2



#8
 Chloroethane
 Concen: 2.800 ug/L
 RT: 1.581 min Scan# 168
 Delta R.T. 0.000 min
 Lab File: VV027105.D
 Acq: 30 Jul 2022 00:16

Tgt Ion: 64 Resp: 9990
 Ion Ratio Lower Upper
 64 100
 66 35.4 22.4 41.6





#12

1,1-Dichloroethene

Concen: 1.292 ug/L

RT: 2.108 min Scan# 31

Delta R.T. -0.006 min

Lab File: VV027105.D

Acq: 30 Jul 2022 00:16

Instrument :

MSVOA_V

ClientSampleId :

EXF01

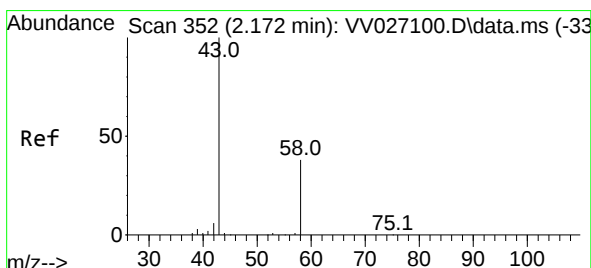
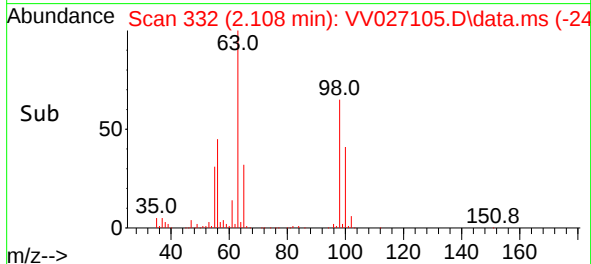
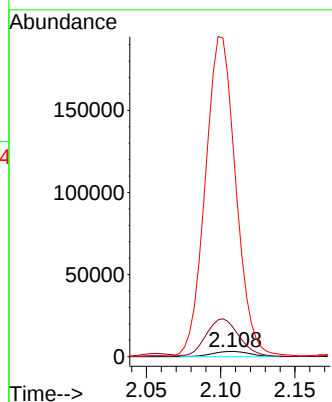
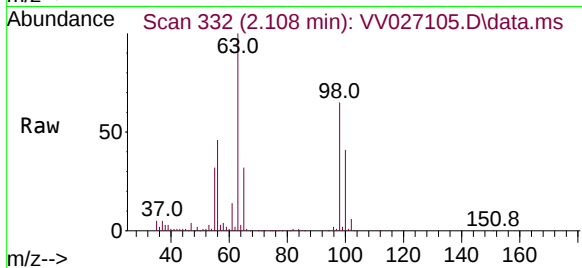
Tgt Ion: 96 Resp: 5682

Ion Ratio Lower Upper

96 100

61 571.5 114.3 212.3#

63 4183.7 93.4 173.4#



#13

Acetone

Concen: 173.556 ug/L

RT: 2.182 min Scan# 355

Delta R.T. 0.010 min

Lab File: VV027105.D

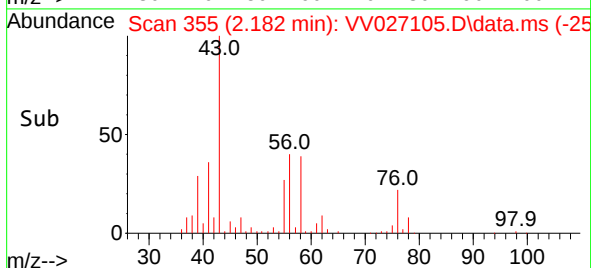
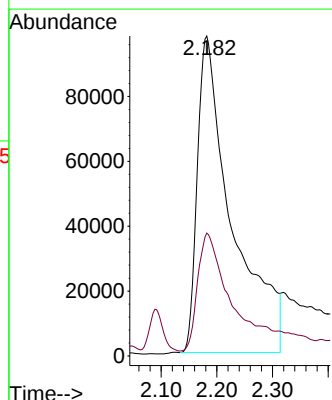
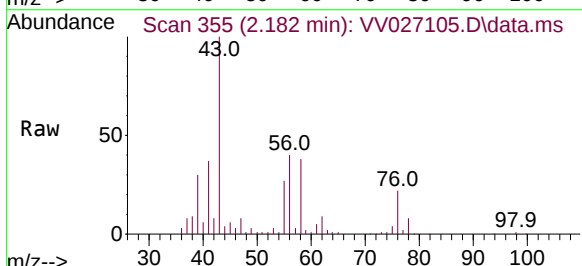
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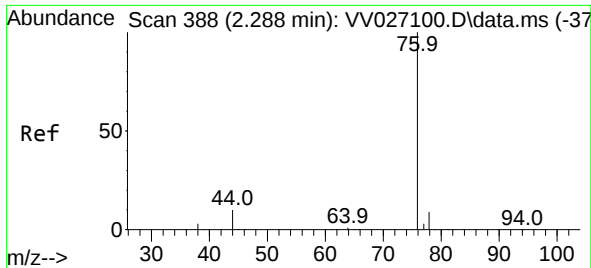
Tgt Ion: 43 Resp: 421015

Ion Ratio Lower Upper

43 100

58 32.5 0.0 49.6

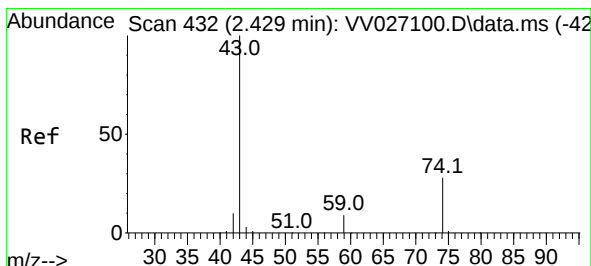
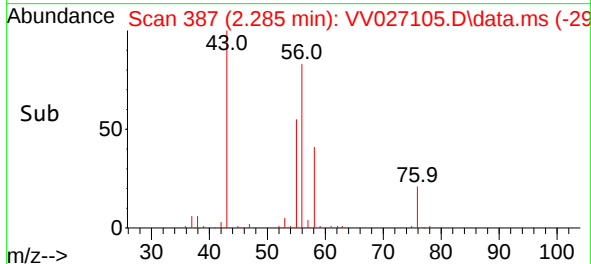
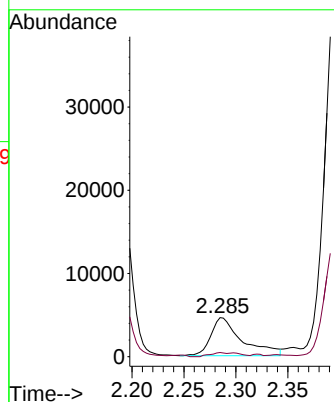
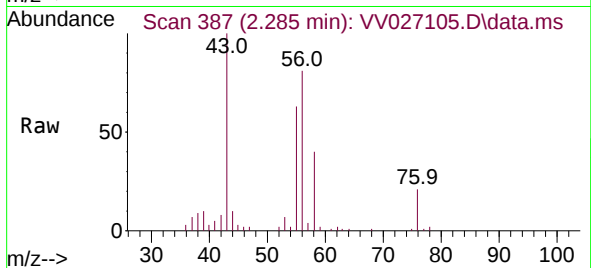




#14
Carbon disulfide
Concen: 0.688 ug/L
RT: 2.285 min Scan# 387
Delta R.T. -0.003 min
Lab File: VV027105.D
Acq: 30 Jul 2022 00:16

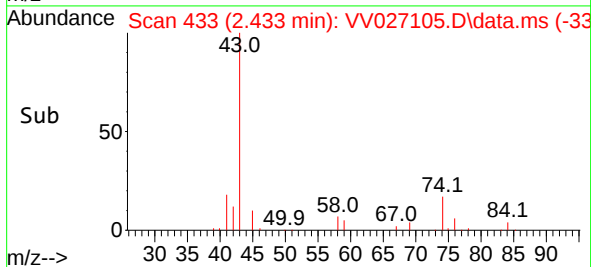
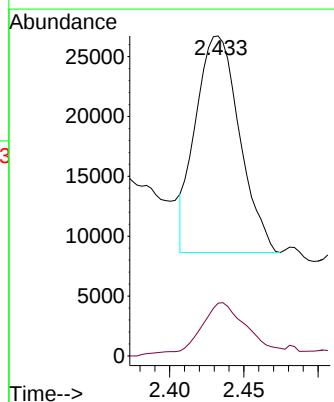
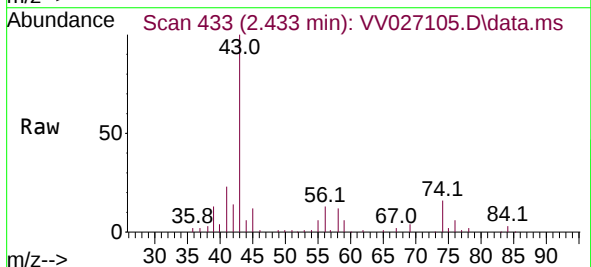
Instrument :
MSVOA_V
ClientSampleId :
EXF01

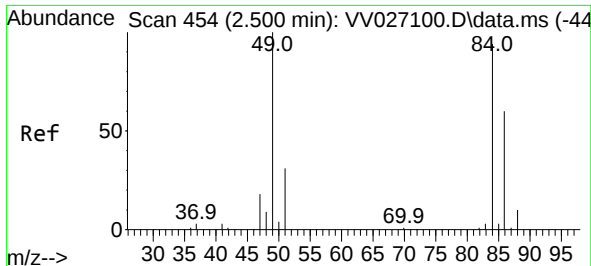
Tgt Ion: 76 Resp: 9596
Ion Ratio Lower Upper
76 100
78 10.5 7.3 10.9



#15
Methyl Acetate
Concen: 9.239 ug/L
RT: 2.433 min Scan# 433
Delta R.T. 0.003 min
Lab File: VV027105.D
Acq: 30 Jul 2022 00:16

Tgt Ion: 43 Resp: 37244
Ion Ratio Lower Upper
43 100
74 26.8 25.5 38.3

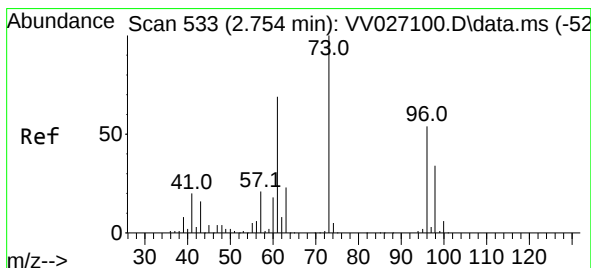
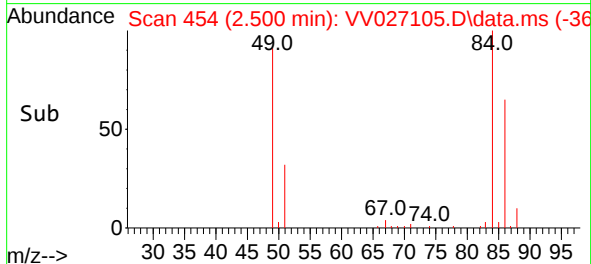
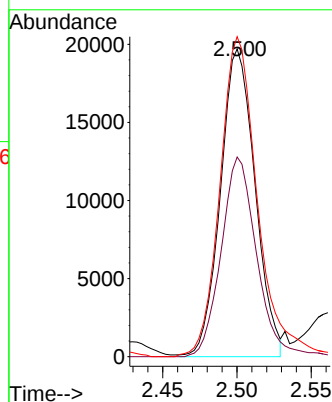
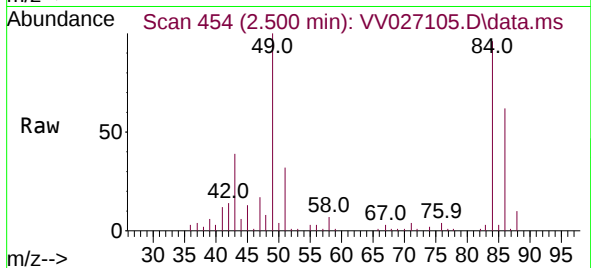




#16
Methylene chloride
Concen: 5.694 ug/L
RT: 2.500 min Scan# 454
Delta R.T. 0.000 min
Lab File: VV027105.D
Acq: 30 Jul 2022 00:16

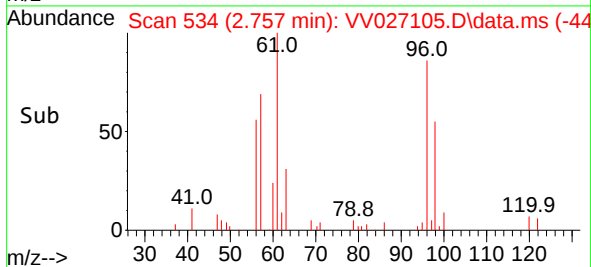
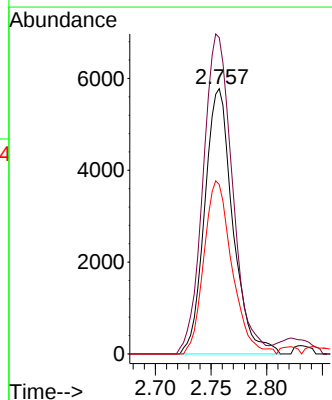
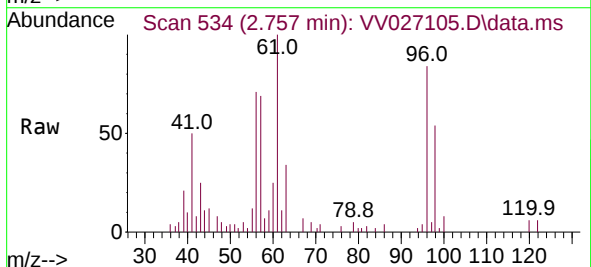
Instrument :
MSVOA_V
ClientSampleId :
EXF01

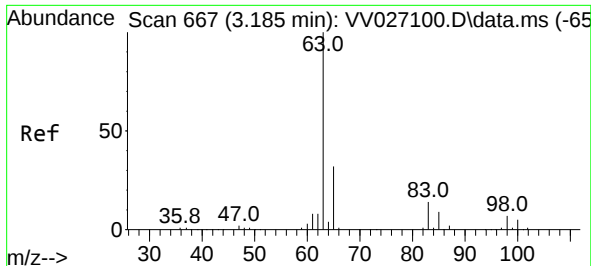
Tgt Ion: 84 Resp: 31919
Ion Ratio Lower Upper
84 100
86 64.9 45.0 83.6
49 104.0 74.1 137.7



#17
trans-1,2-Dichloroethene
Concen: 2.113 ug/L
RT: 2.757 min Scan# 534
Delta R.T. 0.003 min
Lab File: VV027105.D
Acq: 30 Jul 2022 00:16

Tgt Ion: 96 Resp: 10172
Ion Ratio Lower Upper
96 100
61 119.2 89.2 165.6
98 63.9 44.6 82.8





#19

1,1-Dichloroethane

Concen: 6.442 ug/L

RT: 3.185 min Scan# 667

Delta R.T. 0.000 min

Lab File: VV027105.D

Acq: 30 Jul 2022 00:16

Instrument :

MSVOA_V

ClientSampleId :

EXF01

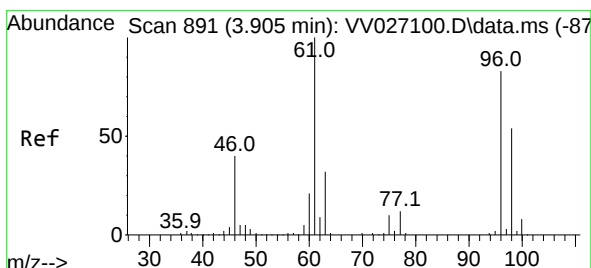
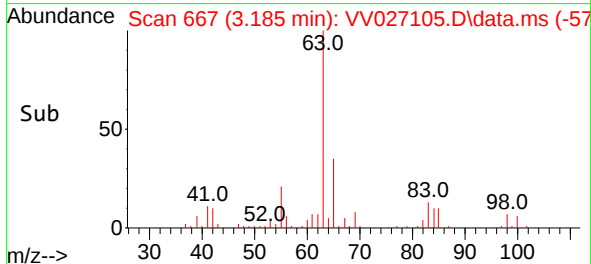
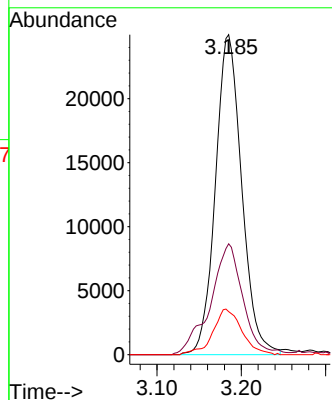
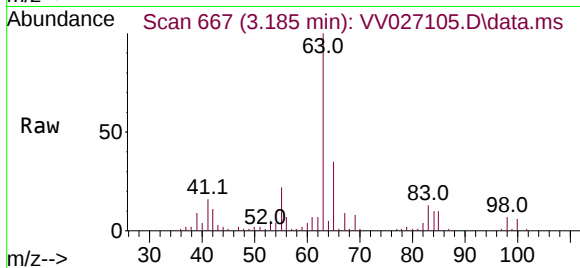
Tgt Ion: 63 Resp: 54164

Ion Ratio Lower Upper

63 100

65 34.6 22.7 42.3

83 13.4 9.5 17.7



#20

cis-1,2-Dichloroethene

Concen: 22.884 ug/L

RT: 3.905 min Scan# 891

Delta R.T. 0.000 min

Lab File: VV027105.D

Acq: 30 Jul 2022 00:16

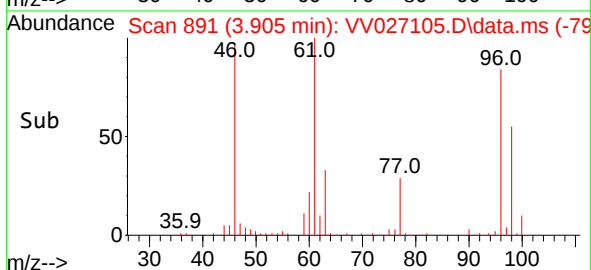
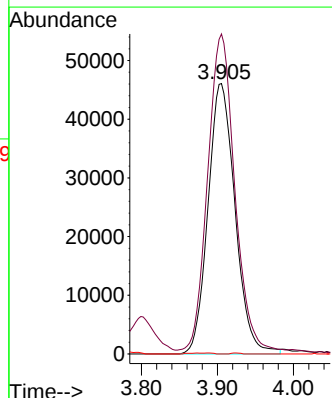
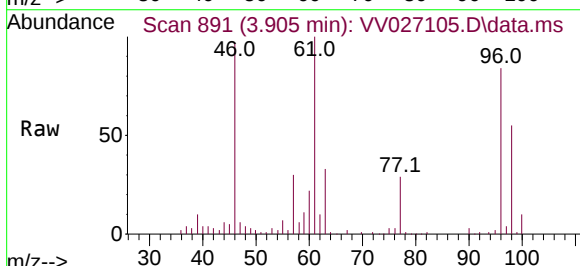
Tgt Ion: 96 Resp: 113939

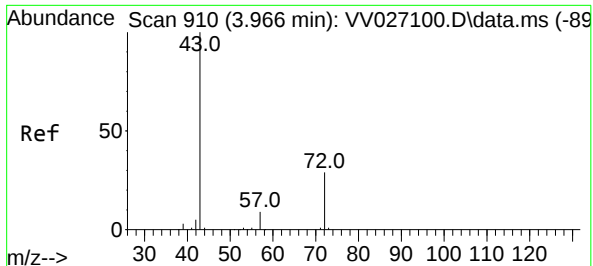
Ion Ratio Lower Upper

96 100

61 118.4 81.8 151.8

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 23.225 ug/L

RT: 3.982 min Scan# 91

Delta R.T. 0.016 min

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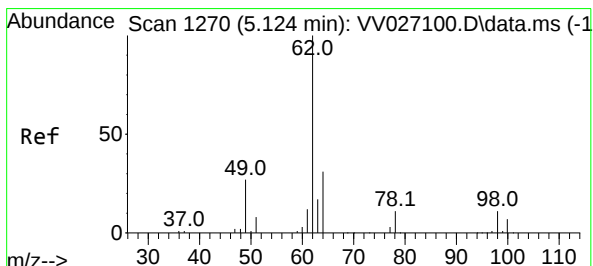
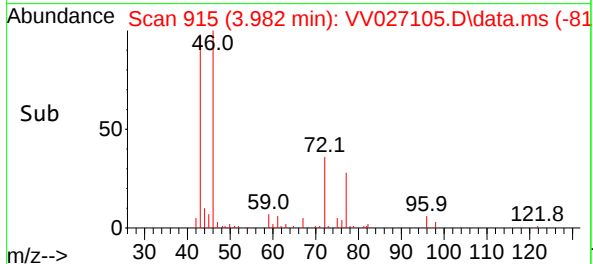
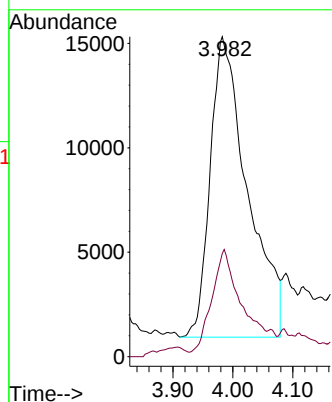
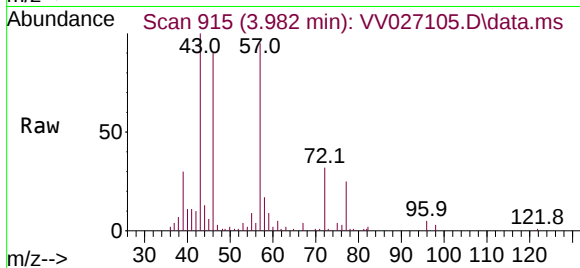
EXF01

Tgt Ion: 43 Resp: 62155

Ion Ratio Lower Upper

43 100

72 27.0 11.9 35.7



#27

1,2-Dichloroethane

Concen: 650.689 ug/L

RT: 5.130 min Scan# 1272

Delta R.T. 0.006 min

Lab File: VV027105.D

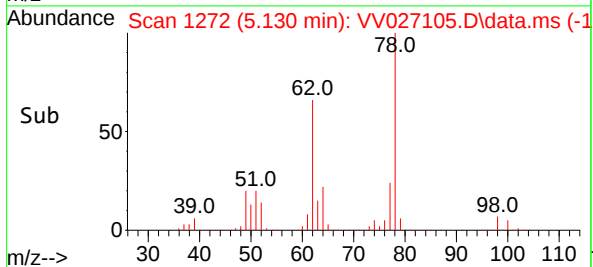
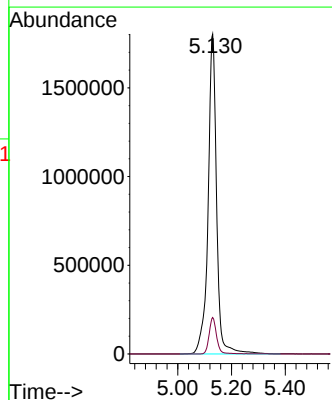
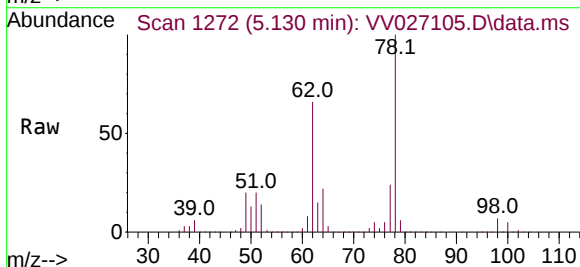
Acq: 30 Jul 2022 00:16

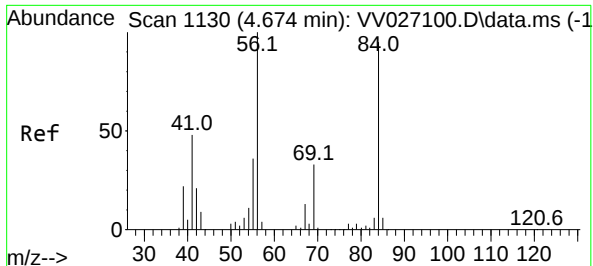
Tgt Ion: 62 Resp: 3968987

Ion Ratio Lower Upper

62 100

98 11.4 9.0 13.6





#29

Cyclohexane

Concen: 9.563 ug/L

RT: 4.674 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VV027105.D

Acq: 30 Jul 2022 00:16

Instrument :

MSVOA_V

ClientSampleId :

EXF01

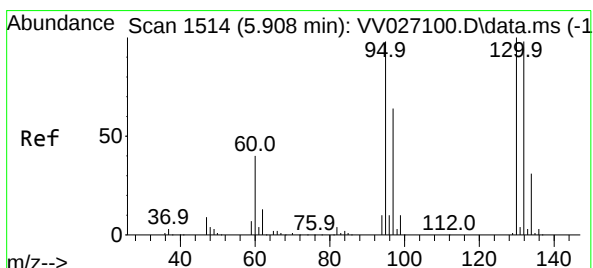
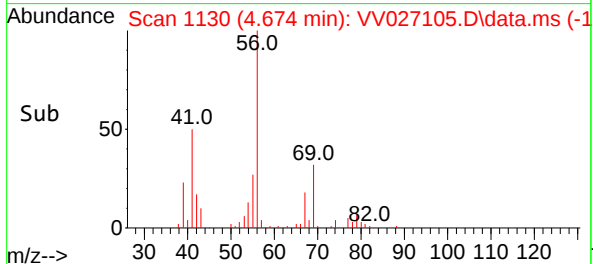
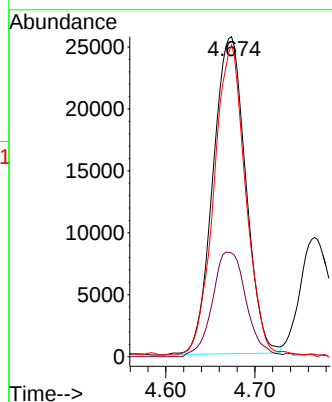
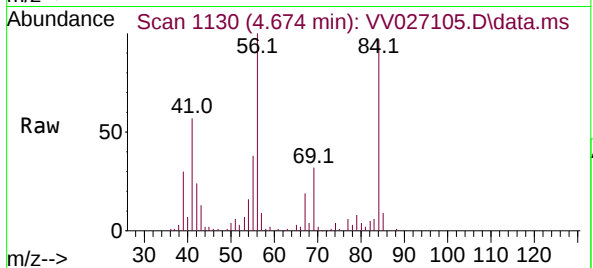
Tgt Ion: 56 Resp: 65163

Ion Ratio Lower Upper

56 100

69 34.1 25.9 38.9

84 94.2 75.3 112.9



#34

Trichloroethene

Concen: 74.891 ug/L

RT: 5.928 min Scan# 1520

Delta R.T. 0.019 min

Lab File: VV027105.D

Acq: 30 Jul 2022 00:16

Tgt Ion: 95 Resp: 393938

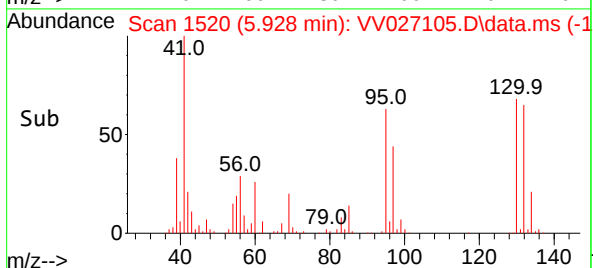
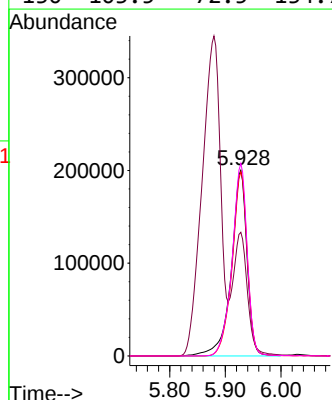
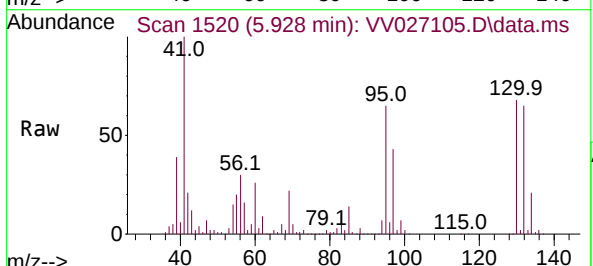
Ion Ratio Lower Upper

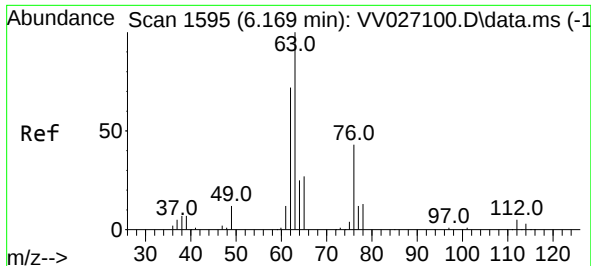
95 100

97 66.5 45.9 85.3

132 99.1 69.8 129.6

130 103.5 72.5 134.7





#37

1,2-Dichloropropane

Concen: 24.157 ug/L

RT: 6.172 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV027105.D

Acq: 30 Jul 2022 00:16

Instrument :

MSVOA_V

ClientSampleId :

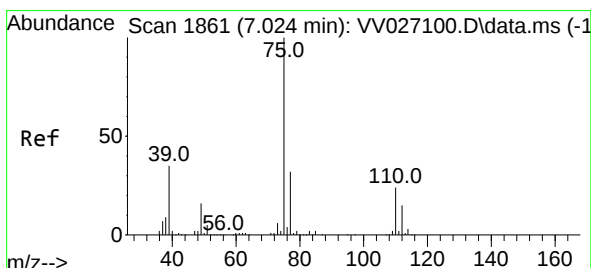
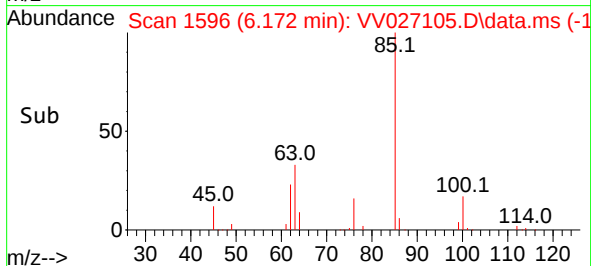
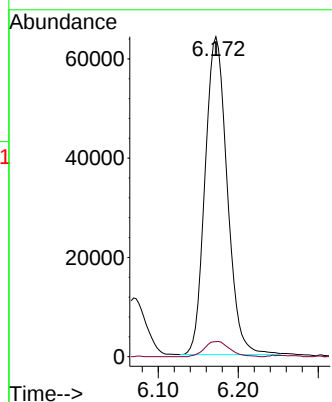
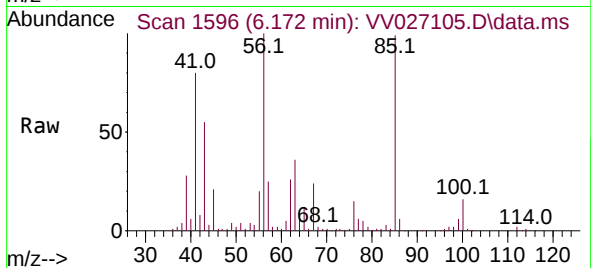
EXF01

Tgt Ion: 63 Resp: 123565

Ion Ratio Lower Upper

63 100

112 5.4 3.7 5.5



#39

cis-1,3-Dichloropropene

Concen: 8.580 ug/L

RT: 6.841 min Scan# 1804

Delta R.T. -0.183 min

Lab File: VV027105.D

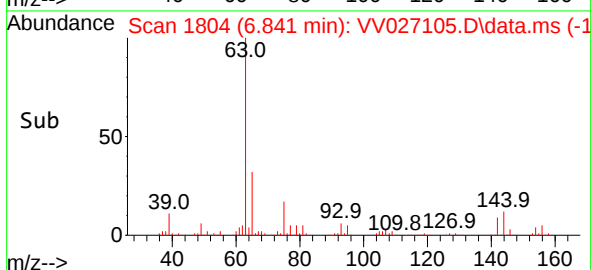
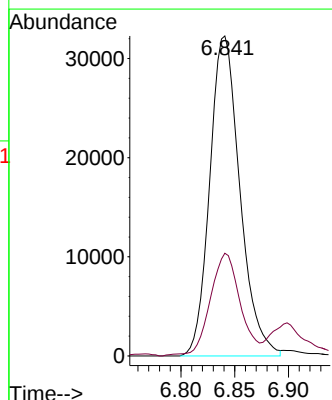
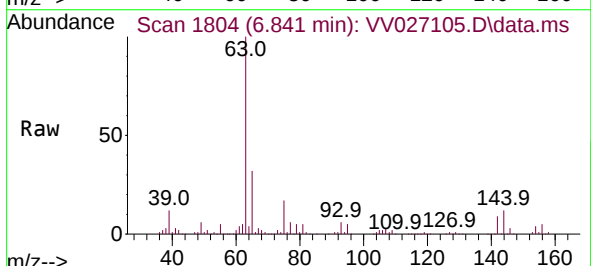
Acq: 30 Jul 2022 00:16

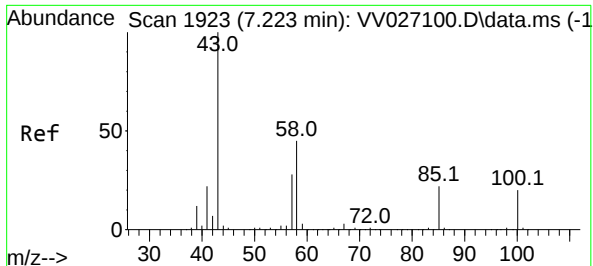
Tgt Ion: 75 Resp: 62960

Ion Ratio Lower Upper

75 100

77 32.1 22.5 41.7





#40

4-Methyl-2-pentanone

Concen: 5.841 ug/L

RT: 7.233 min Scan# 1923

Delta R.T. 0.010 min

Lab File: VV027105.D

Acq: 30 Jul 2022 00:16

Instrument :

MSVOA_V

ClientSampleId :

EXF01

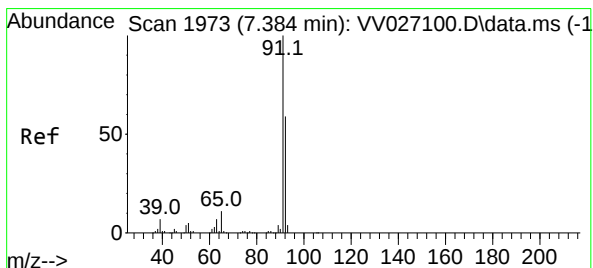
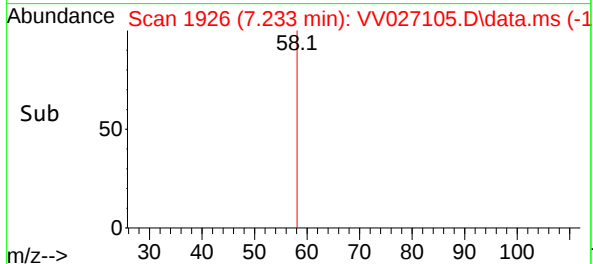
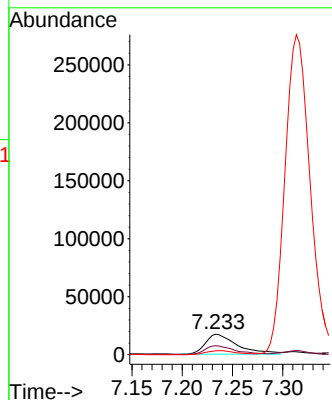
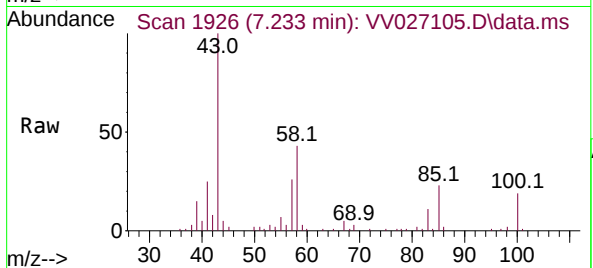
Tgt Ion: 43 Resp: 37789

Ion Ratio Lower Upper

43 100

58 41.7 35.3 52.9

100 19.0 15.7 23.5



#42

Toluene

Concen: 524.905 ug/L

RT: 7.384 min Scan# 1973

Delta R.T. 0.000 min

Lab File: VV027105.D

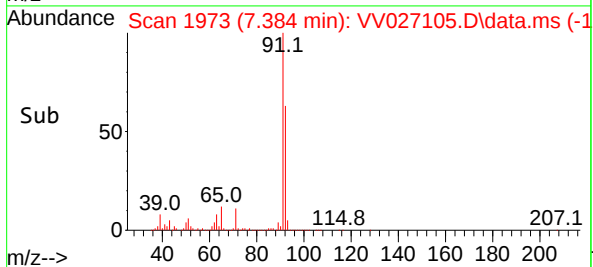
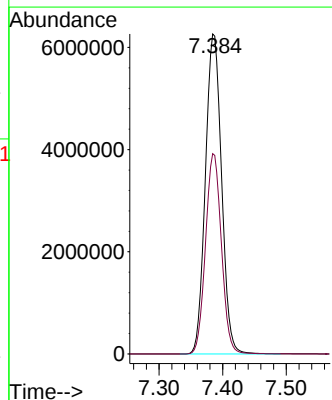
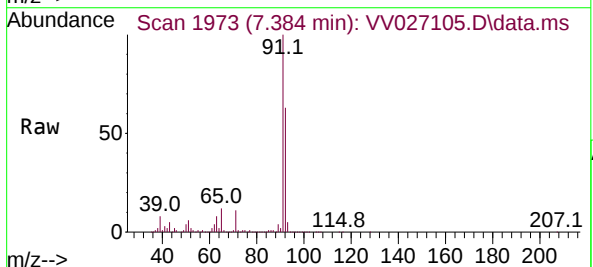
Acq: 30 Jul 2022 00:16

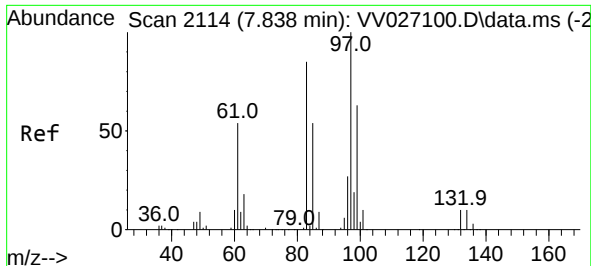
Tgt Ion: 91 Resp:11060728

Ion Ratio Lower Upper

91 100

92 62.6 40.9 76.0





#45

1,1,2-Trichloroethane

Concen: 4.960 ug/L

RT: 7.789 min Scan# 2110

Delta R.T. -0.048 min

Lab File: VV027105.D

Acq: 30 Jul 2022 00:16

Instrument :

MSVOA_V

ClientSampleId :

EXF01

Tgt Ion: 97 Resp: 27164

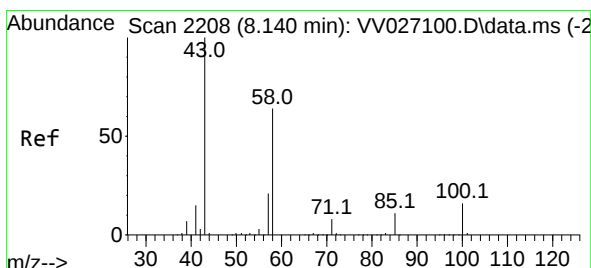
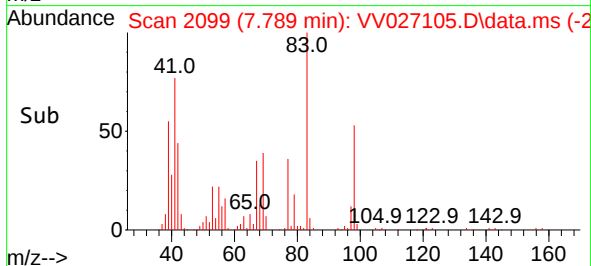
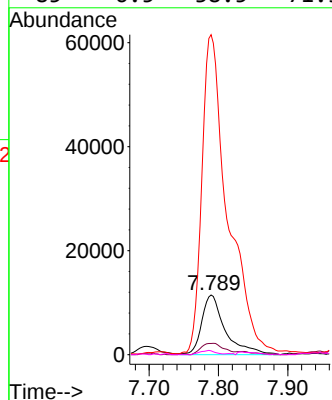
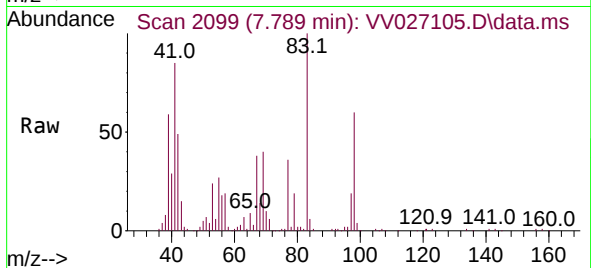
Ion Ratio Lower Upper

97 100

99 18.8 43.2 80.2#

83 536.8 58.0 107.6#

85 6.5 38.5 71.5#



#48

2-Hexanone

Concen: 13.806 ug/L

RT: 8.146 min Scan# 2210

Delta R.T. 0.006 min

Lab File: VV027105.D

Acq: 30 Jul 2022 00:16

Tgt Ion: 43 Resp: 70386

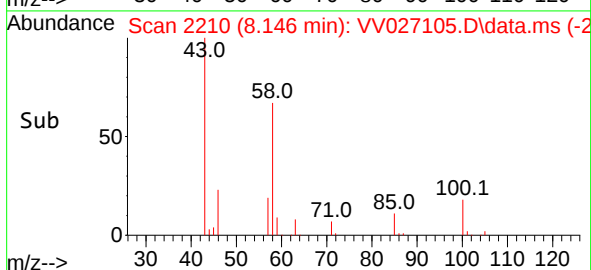
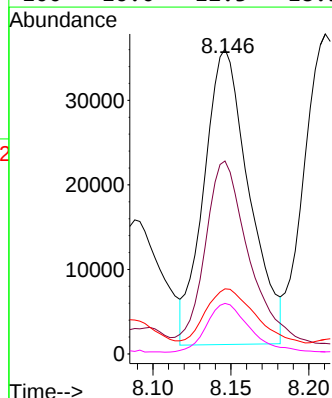
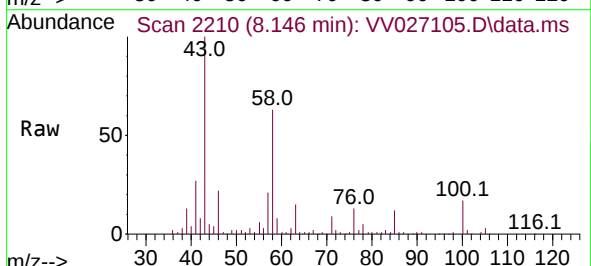
Ion Ratio Lower Upper

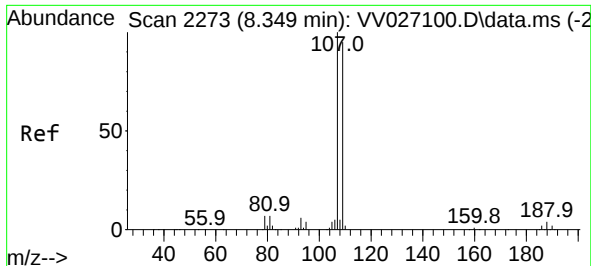
43 100

58 62.2 50.8 76.2

57 24.4 17.1 25.7

100 16.0 12.3 18.5





#50

1,2-Dibromoethane

Concen: 0.860 ug/L

RT: 8.355 min Scan# 21

Delta R.T. 0.006 min

Lab File: VV027105.D

Acq: 30 Jul 2022 00:16

Instrument :

MSVOA_V

ClientSampleId :

EXF01

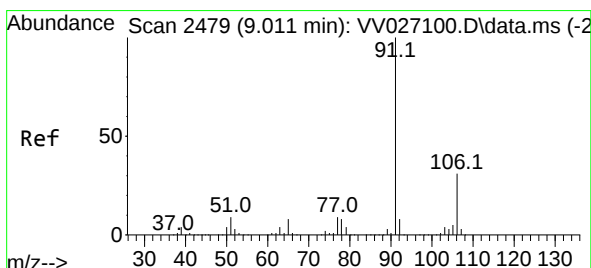
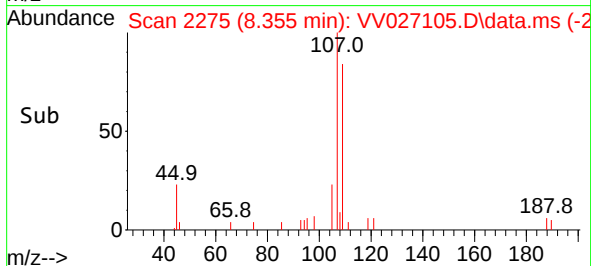
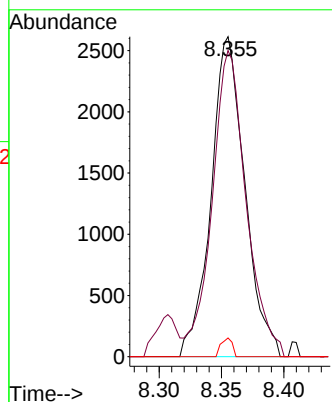
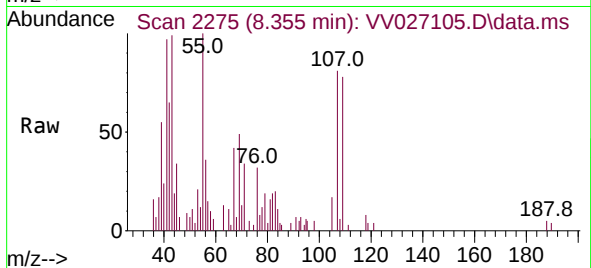
Tgt Ion:107 Resp: 4936

Ion Ratio Lower Upper

107 100

109 95.7 65.7 121.9

188 5.9 2.7 4.1#



#52

Ethylbenzene

Concen: 6.687 ug/L

RT: 9.014 min Scan# 2480

Delta R.T. 0.003 min

Lab File: VV027105.D

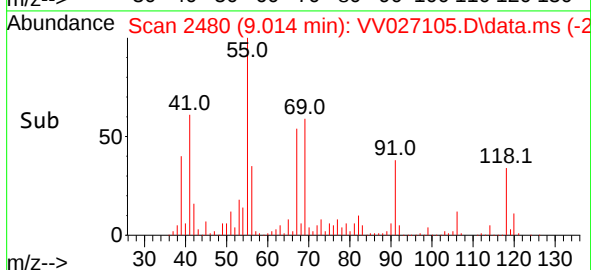
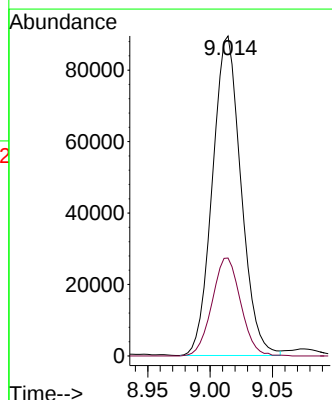
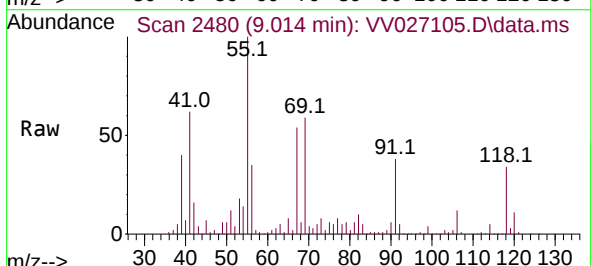
Acq: 30 Jul 2022 00:16

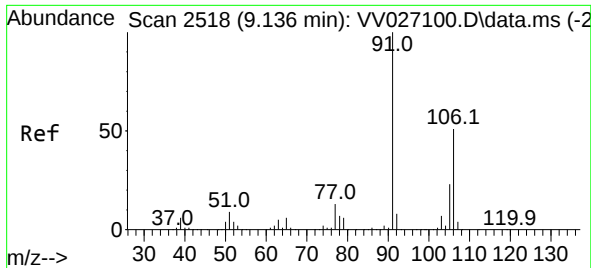
Tgt Ion: 91 Resp: 142688

Ion Ratio Lower Upper

91 100

106 30.6 21.8 40.6

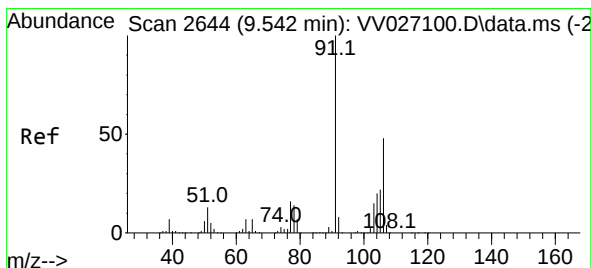
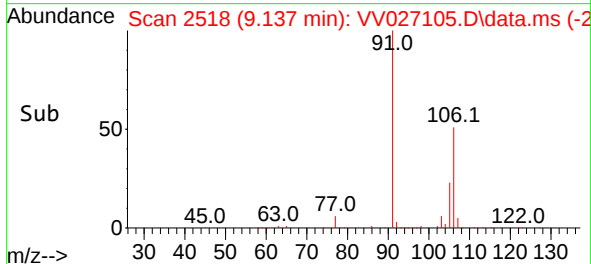
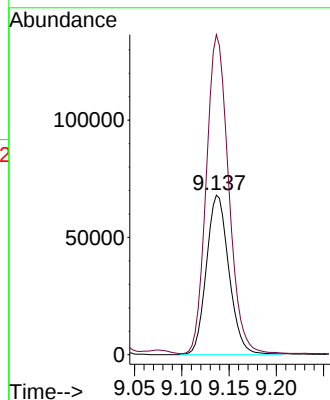
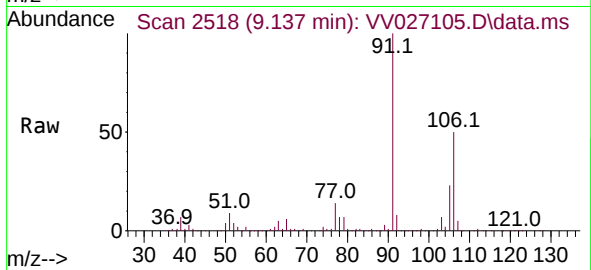




#53
m,p-Xylene
Concen: 13.459 ug/L
RT: 9.137 min Scan# 21
Delta R.T. 0.000 min
Lab File: VV027105.D
Acq: 30 Jul 2022 00:16

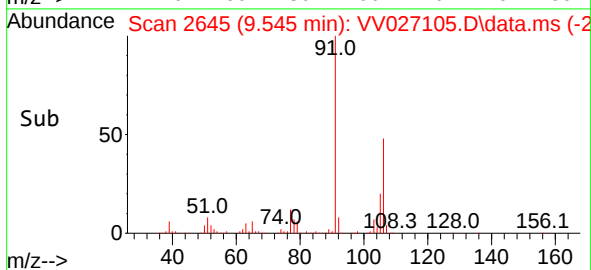
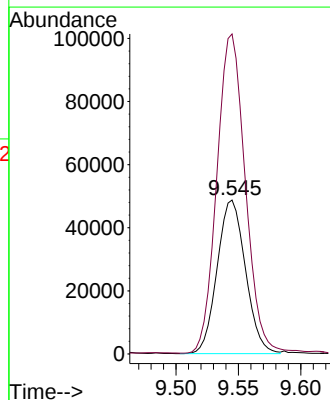
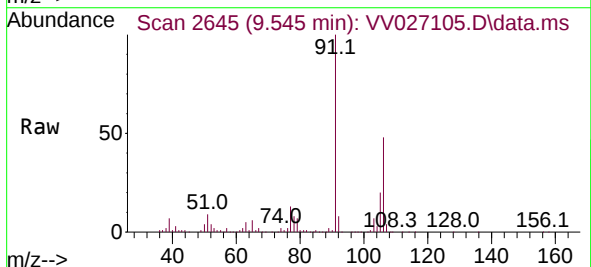
Instrument :
MSVOA_V
ClientSampleId :
EXF01

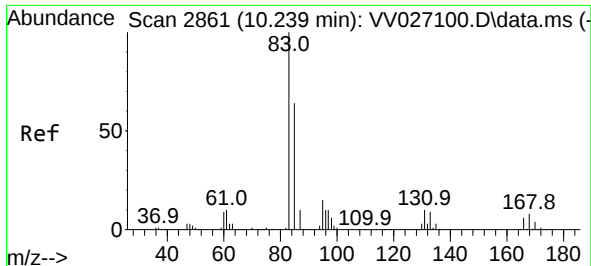
Tgt Ion:106 Resp: 112952
Ion Ratio Lower Upper
106 100
91 200.5 137.5 255.3



#54
o-Xylene
Concen: 9.540 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. 0.003 min
Lab File: VV027105.D
Acq: 30 Jul 2022 00:16

Tgt Ion:106 Resp: 77105
Ion Ratio Lower Upper
106 100
91 207.9 146.6 272.2





#57

1,1,2,2-Tetrachloroethane

Concen: 14.675 ug/L

RT: 10.227 min Scan# 2857

Delta R.T. -0.013 min

Lab File: VV027105.D

Acq: 30 Jul 2022 00:16

Instrument :

MSVOA_V

ClientSampleId :

EXF01

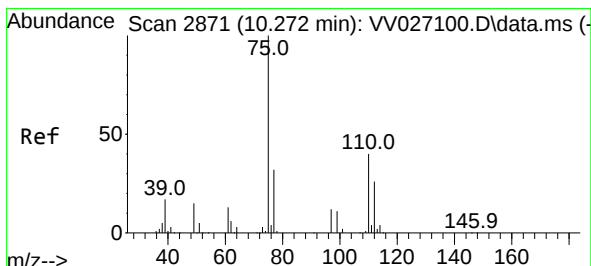
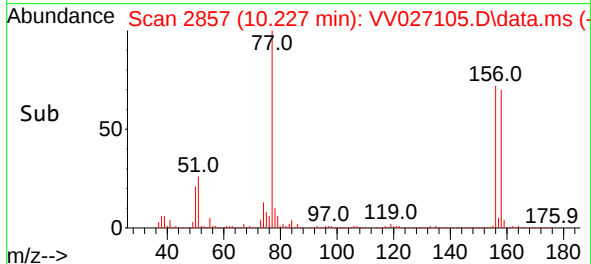
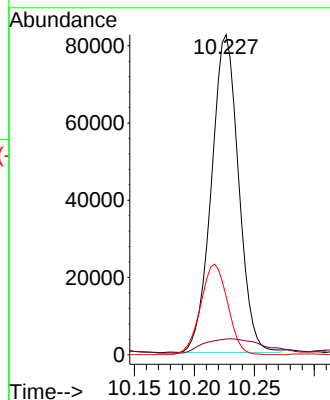
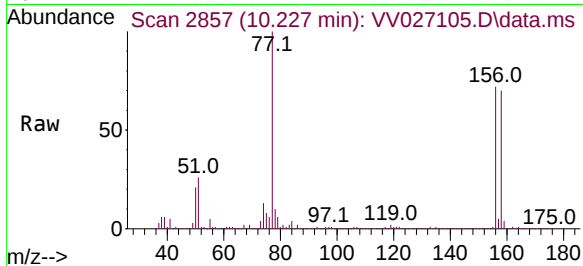
Tgt Ion: 83 Resp: 129566

Ion Ratio Lower Upper

83 100

85 4.9 45.2 84.0#

131 18.2 8.1 12.1#



#61

1,2,3-Trichloropropane

Concen: 10.772 ug/L

RT: 10.275 min Scan# 2872

Delta R.T. 0.003 min

Lab File: VV027105.D

Acq: 30 Jul 2022 00:16

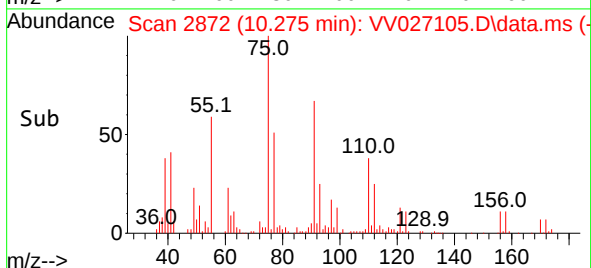
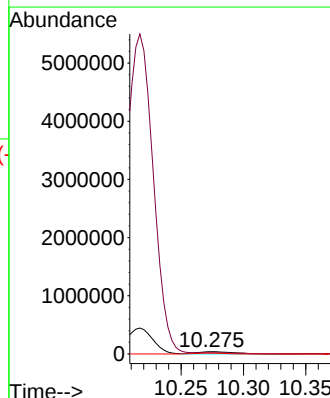
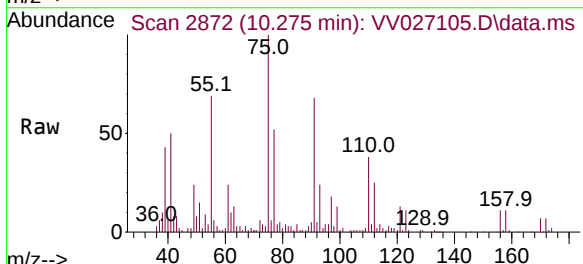
Tgt Ion: 75 Resp: 80497

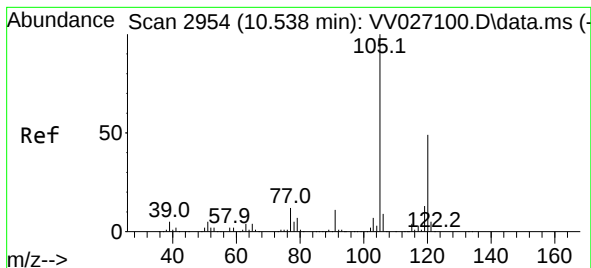
Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#

110 30.2 32.7 49.1#





#62

1,3,5-Trimethylbenzene

Concen: 2.605 ug/L

RT: 10.538 min Scan# 2954

Delta R.T. 0.000 min

Lab File: VV027105.D

Acq: 30 Jul 2022 00:16

Instrument :

MSVOA_V

ClientSampleId :

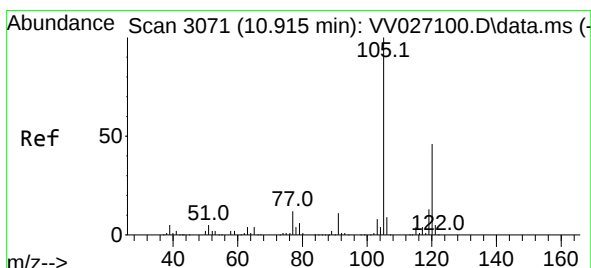
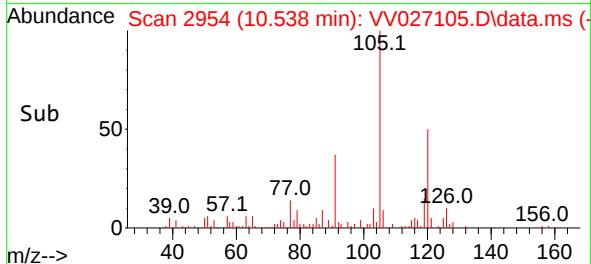
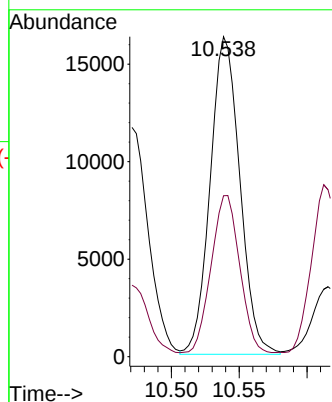
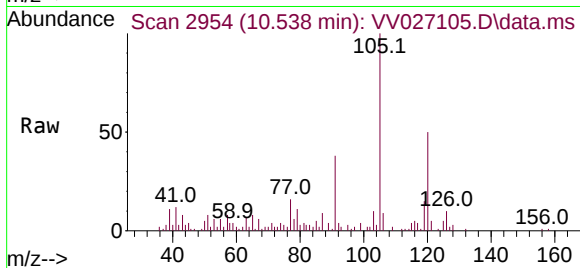
EXF01

Tgt Ion:105 Resp: 24791

Ion Ratio Lower Upper

105 100

120 50.5 39.3 58.9



#63

1,2,4-Trimethylbenzene

Concen: 7.627 ug/L

RT: 10.915 min Scan# 3071

Delta R.T. 0.000 min

Lab File: VV027105.D

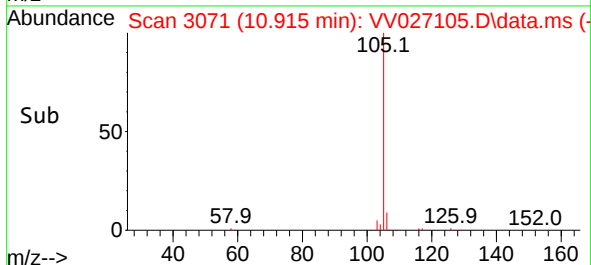
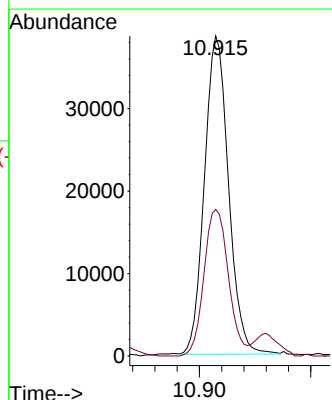
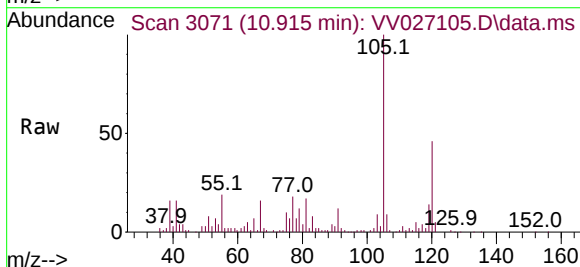
Acq: 30 Jul 2022 00:16

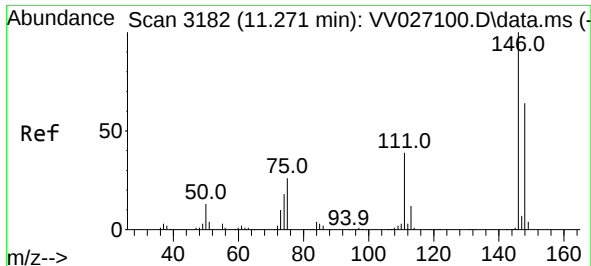
Tgt Ion:105 Resp: 57928

Ion Ratio Lower Upper

105 100

120 46.9 37.0 55.6

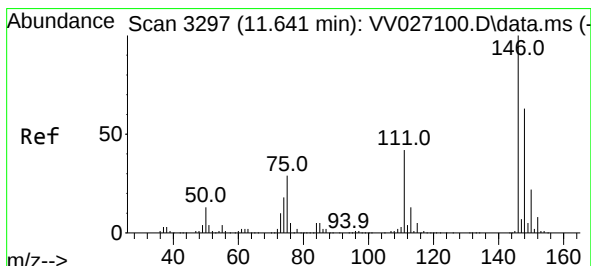
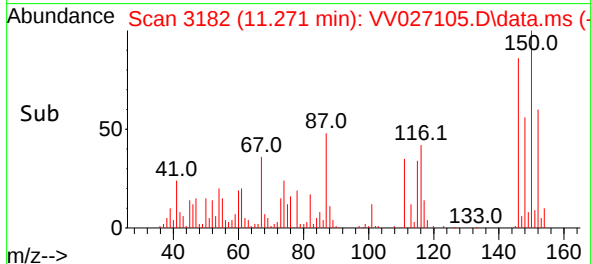
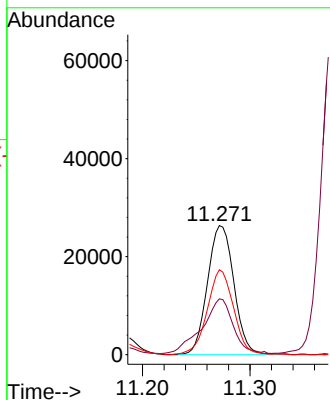
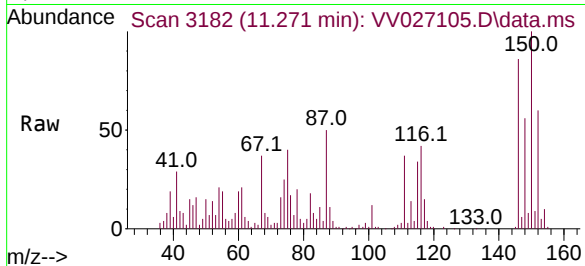




#65
1,4-Dichlorobenzene
Concen: 3.956 ug/L
RT: 11.271 min Scan# 3182
Delta R.T. 0.000 min
Lab File: VV027105.D
Acq: 30 Jul 2022 00:16

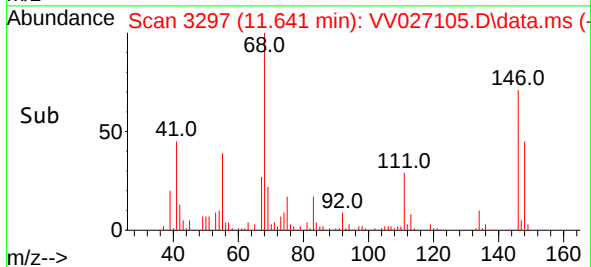
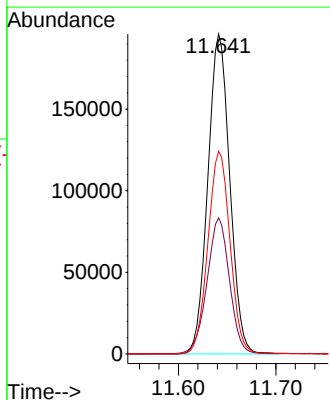
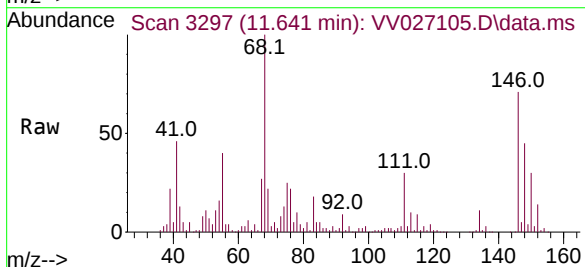
Instrument :
MSVOA_V
ClientSampleId :
EXF01

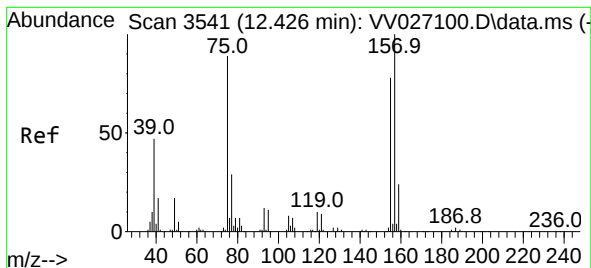
Tgt Ion:146 Resp: 44995
Ion Ratio Lower Upper
146 100
111 43.3 27.4 51.0
148 65.8 44.6 82.8



#67
1,2-Dichlorobenzene
Concen: 27.209 ug/L
RT: 11.641 min Scan# 3297
Delta R.T. 0.000 min
Lab File: VV027105.D
Acq: 30 Jul 2022 00:16

Tgt Ion:146 Resp: 306727
Ion Ratio Lower Upper
146 100
111 42.6 34.0 51.0
148 63.4 50.5 75.7

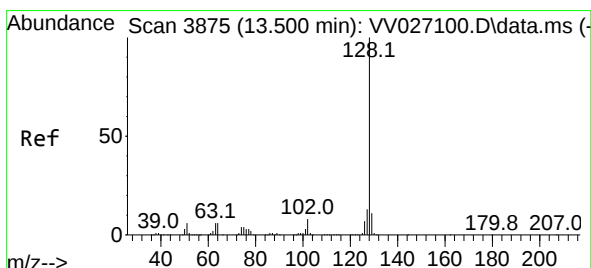
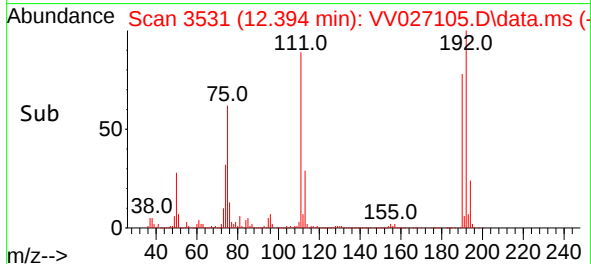
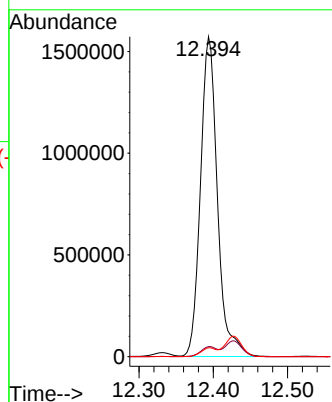
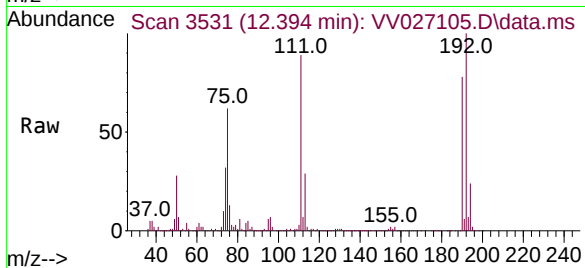




#68
1,2-Dibromo-3-chloropropane
Concen: 1272.917 ug/L
RT: 12.394 min Scan# 3531
Delta R.T. -0.032 min
Lab File: VV027105.D
Acq: 30 Jul 2022 00:16

Instrument :
MSVOA_V
ClientSampleId :
EXF01

Tgt Ion: 75 Resp: 2494009
Ion Ratio Lower Upper
75 100
155 3.2 69.1 103.7#
157 2.8 87.8 131.8#



#71
Naphthalene
Concen: 2.020 ug/L
RT: 13.503 min Scan# 3876
Delta R.T. 0.003 min
Lab File: VV027105.D
Acq: 30 Jul 2022 00:16

Tgt Ion: 128 Resp: 44047
Ion Ratio Lower Upper
128 100
127 13.8 10.3 15.5
129 12.1 8.6 13.0

