

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW092722\
 Data File : VW028144.D
 Acq On : 27 Sep 2022 17:05
 Operator : SY/MD
 Sample : N4856-05
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 F5H32

Quant Time: Sep 28 03:12:37 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092222WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Sep 28 03:08:11 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.613	114	184059	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.850	117	182063	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.246	152	91728	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.301	65	57374	3.007	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	60.200%
7) Chloroethane-d5	1.561	69	52604	3.467	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	69.400%
11) 1,1-Dichloroethene-d2	2.101	63	76023	2.297	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	46.000%#
20) 2-Butanone-d5	3.886	46	167154	51.887	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.780%
24) Chloroform-d	4.346	84	123334	4.050	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.000%
26) 1,2-Dichloroethane-d4	5.027	65	60325	4.163	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.200%
32) Benzene-d6	5.047	84	231667	3.881	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	77.600%
36) 1,2-Dichloropropane-d6	6.066	67	77591	4.169	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	83.400%
41) Toluene-d8	7.313	98	186978	3.460	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	69.200%#
43) trans-1,3-Dichloroprop...	7.622	79	25225	3.752	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	75.000%
46) 2-Hexanone-d5	8.085	63	141287	50.356	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.720%
56) 1,1,2,2-Tetrachloroeth...	10.214	84	58235	4.578	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.600%
66) 1,2-Dichlorobenzene-d4	11.622	152	86258	4.794	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.800%
Target Compounds						
					Qvalue	
3) Chloromethane	1.291	50	1187	0.065	ug/L #	73
5) Vinyl chloride	1.304	62	2283	0.160	ug/L #	25
8) Chloroethane	1.381	64	1865106	194.867	ug/L #	51
12) 1,1-Dichloroethene	2.108	96	1033	0.081	ug/L #	1
13) Acetone	2.175	43	48970	19.735	ug/L	95
14) Carbon disulfide	2.291	76	3201	0.131	ug/L #	91
15) Methyl Acetate	2.494	43	9554	1.983	ug/L #	55
17) Methyl tert-butyl Ether	2.764	73	1704504	62.293	ug/L	96
18) trans-1,2-Dichloroethene	2.754	96	81547	7.324	ug/L	98
22) cis-1,2-Dichloroethene	3.905	96	105915	7.249	ug/L	100
25) Chloroform	4.407	83	1828	0.070	ug/L	88
27) 1,2-Dichloroethane	5.140	62	2567	0.185	ug/L #	25
30) Cyclohexane	4.667	56	13458	0.832	ug/L	93
33) Benzene	5.098	78	62745	1.241	ug/L	100
34) Trichloroethene	5.915	95	14714	1.169	ug/L	96
35) Methylcyclohexane	6.066	83	20297	1.176	ug/L #	68
37) 1,2-Dichloropropane	6.066	63	8127	0.573	ug/L #	90
38) Bromodichloromethane	6.539	83	1172	0.067	ug/L #	42
39) cis-1,3-Dichloropropene	6.986	75	1669	0.095	ug/L #	18

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 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 17 Sample Multiplier: 1

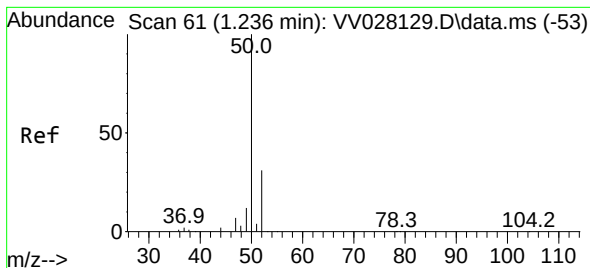
Instrument :
 MSVOA_V
 ClientSampleId :
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Quant Time: Sep 28 03:12:37 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092222WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Wed Sep 28 03:08:11 2022
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

40) 4-Methyl-2-pentanone	7.240	43	5899	0.857	ug/L #	85
42) Toluene	7.394	91	11134	0.211	ug/L	93
45) 1,1,2-Trichloroethane	7.786	97	12140	1.278	ug/L #	22
47) Tetrachloroethene	7.973	164	17271	1.719	ug/L	97
49) Dibromochloromethane	7.976	129	15841	1.387	ug/L #	11
50) 1,2-Dibromoethane	8.387	107	352	0.043	ug/L #	1
52) Ethylbenzene	9.014	91	19988	0.358	ug/L	100
53) m,p-Xylene	9.143	106	1204	0.056	ug/L	73
54) o-Xylene	9.545	106	4106	0.194	ug/L	91
60) Isopropylbenzene	9.931	105	11095	0.206	ug/L #	90
61) 1,2,3-Trichloropropane	10.735	75	578	0.075	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.538	105	18843	1.242	ug/L	100
63) 1,2,4-Trimethylbenzene	10.915	105	8833	0.208	ug/L	95
71) Naphthalene	13.503	128	4704	0.169	ug/L #	87

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



#3

Chloromethane

Concen: 0.065 ug/L

RT: 1.291 min Scan# 78

Delta R.T. 0.055 min

Lab File: VV028144.D

Acq: 27 Sep 2022 17:05

Instrument :

MSVOA_V

ClientSampleId :

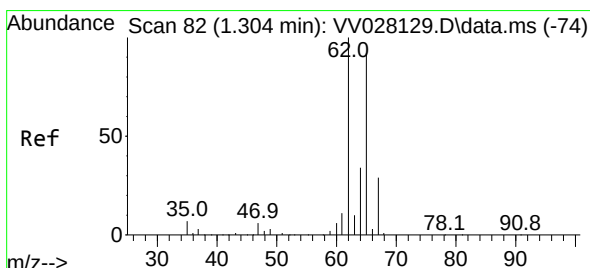
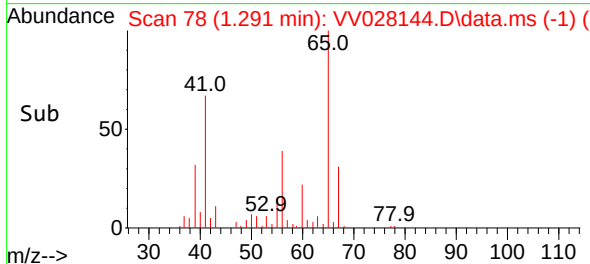
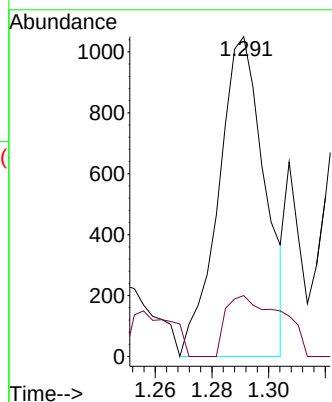
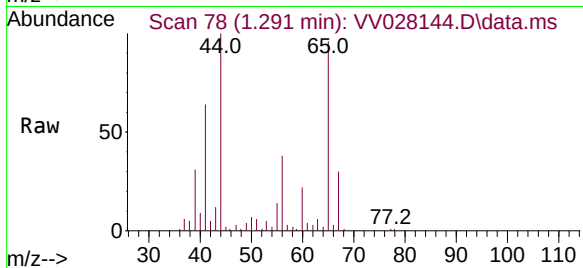
F5H32

Tgt Ion: 50 Resp: 1187

Ion Ratio Lower Upper

50 100

52 19.0 24.4 45.2#



#5

Vinyl chloride

Concen: 0.160 ug/L

RT: 1.304 min Scan# 82

Delta R.T. 0.000 min

Lab File: VV028144.D

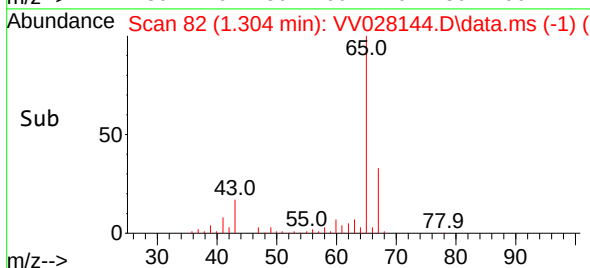
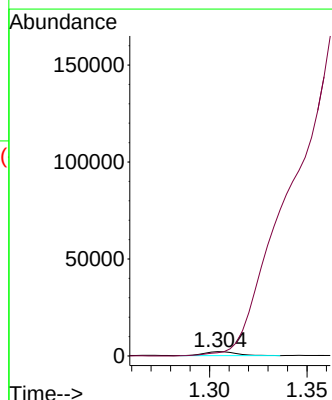
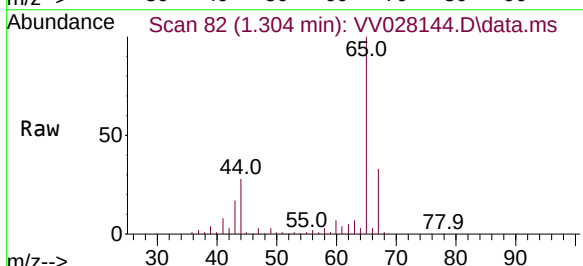
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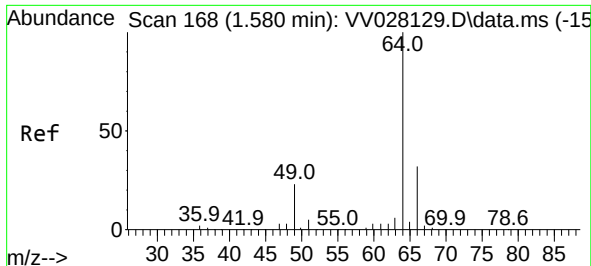
Tgt Ion: 62 Resp: 2283

Ion Ratio Lower Upper

62 100

64 75.0 23.0 42.8#

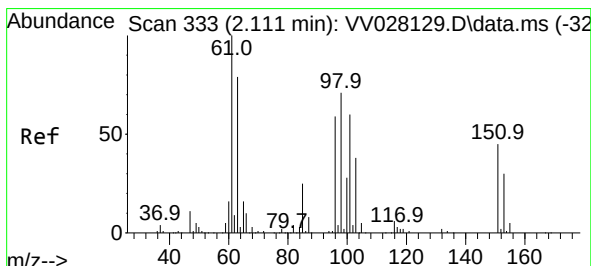
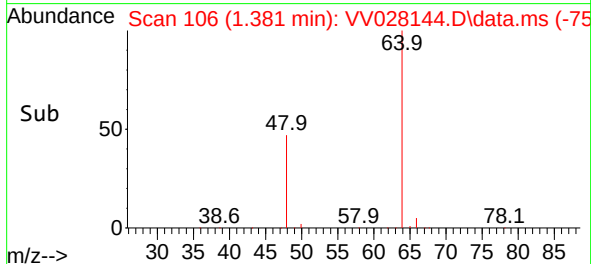
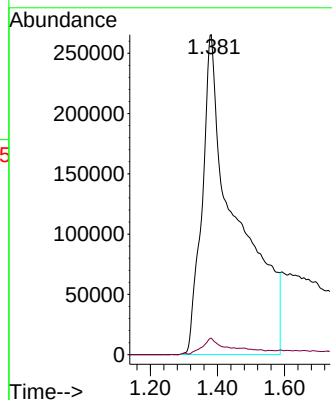
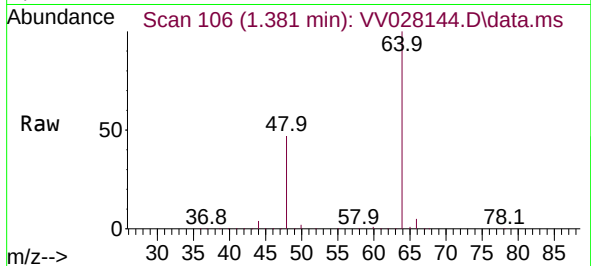




#8
Chloroethane
Concen: 194.867 ug/L
RT: 1.381 min Scan# 106
Delta R.T. -0.199 min
Lab File: VV028144.D
Acq: 27 Sep 2022 17:05

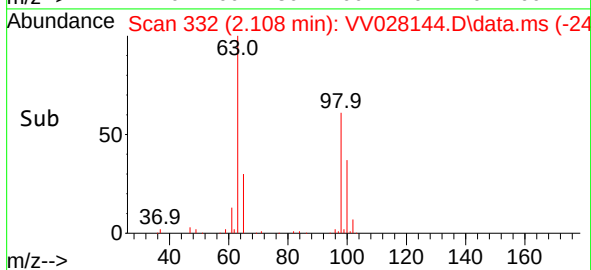
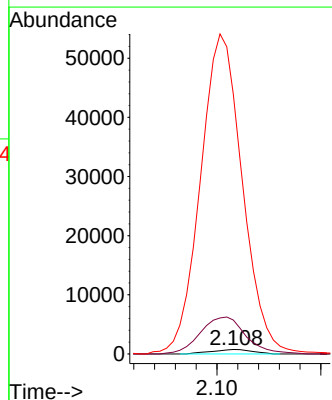
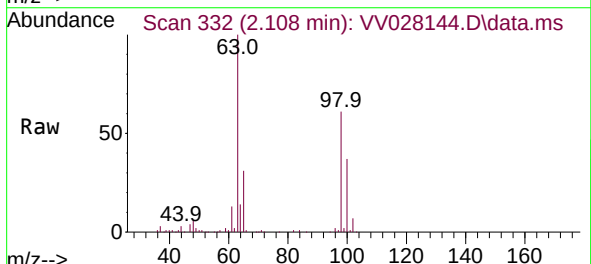
Instrument :
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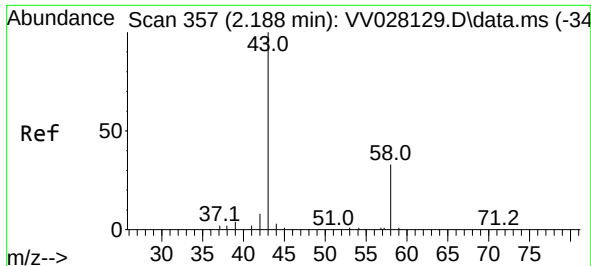
Tgt Ion: 64 Resp: 1865106
Ion Ratio Lower Upper
64 100
66 5.1 23.0 42.8#



#12
1,1-Dichloroethene
Concen: 0.081 ug/L
RT: 2.108 min Scan# 332
Delta R.T. -0.003 min
Lab File: VV028144.D
Acq: 27 Sep 2022 17:05

Tgt Ion: 96 Resp: 1033
Ion Ratio Lower Upper
96 100
61 745.2 128.3 238.3#
63 5702.9 112.7 209.3#





#13

Acetone

Concen: 19.735 ug/L

RT: 2.175 min Scan# 3

Delta R.T. -0.013 min

Lab File: VV028144.D

Acq: 27 Sep 2022 17:05

Instrument :

MSVOA_V

ClientSampleId :

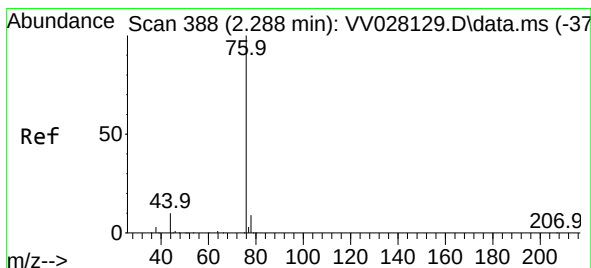
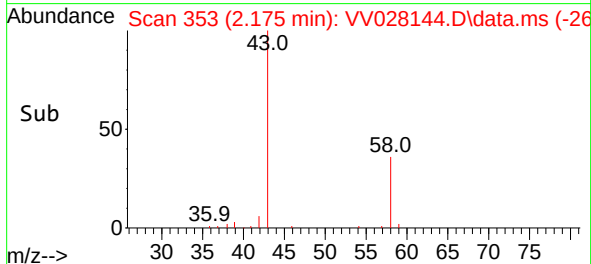
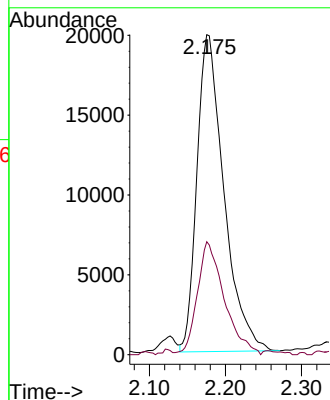
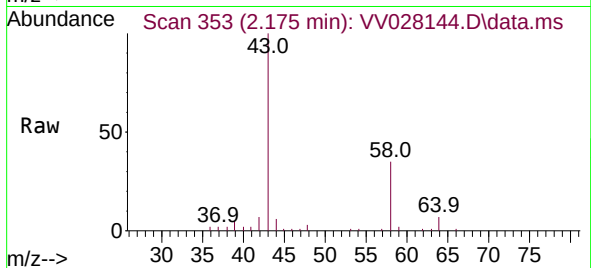
F5H32

Tgt Ion: 43 Resp: 48970

Ion Ratio Lower Upper

43 100

58 35.5 0.0 65.6



#14

Carbon disulfide

Concen: 0.131 ug/L

RT: 2.291 min Scan# 389

Delta R.T. 0.003 min

Lab File: VV028144.D

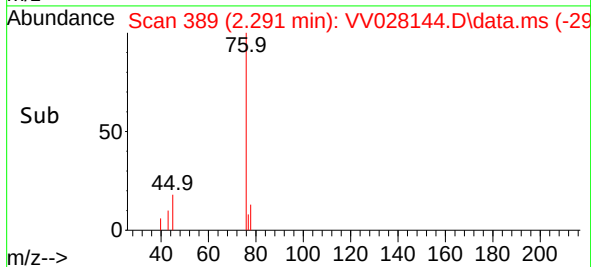
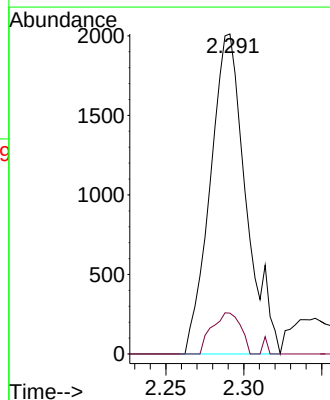
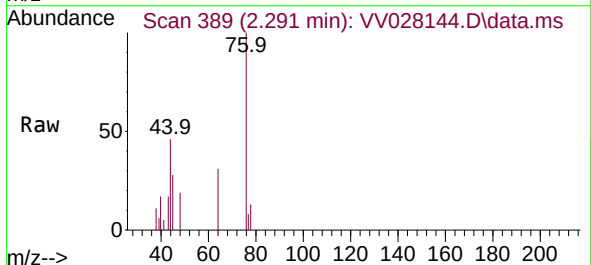
Acq: 27 Sep 2022 17:05

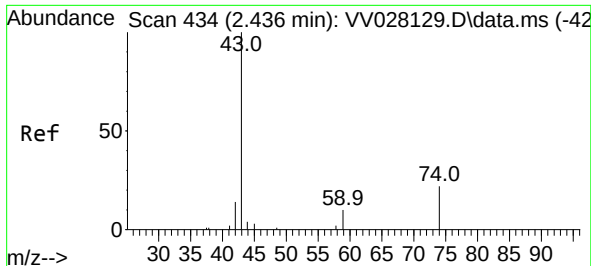
Tgt Ion: 76 Resp: 3201

Ion Ratio Lower Upper

76 100

78 12.8 7.6 11.4#

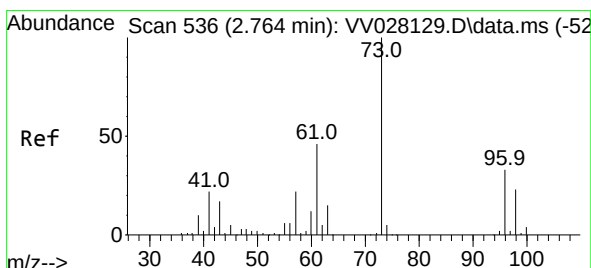
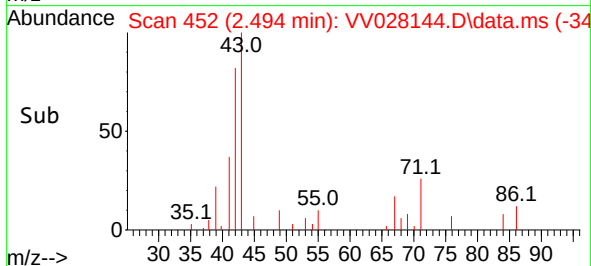
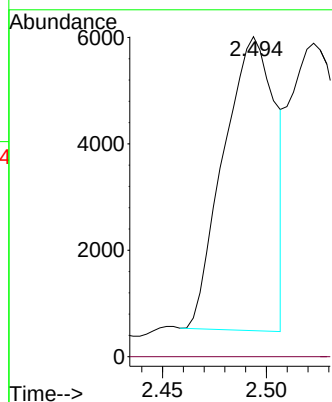
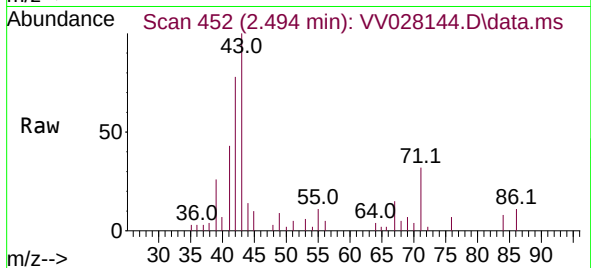




#15
Methyl Acetate
Concen: 1.983 ug/L
RT: 2.494 min Scan# 41
Delta R.T. 0.058 min
Lab File: VV028144.D
Acq: 27 Sep 2022 17:05

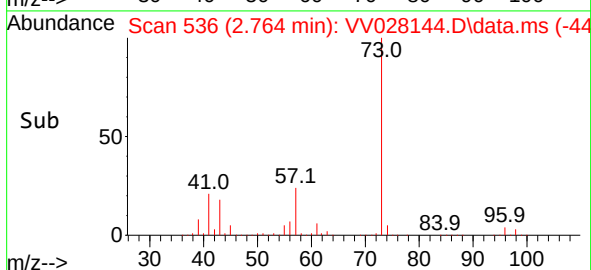
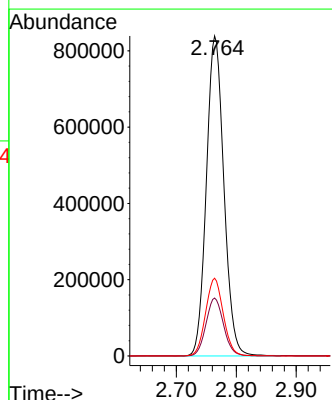
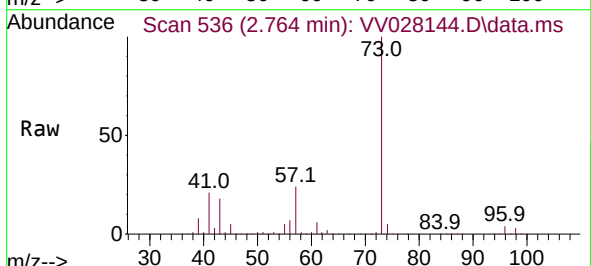
Instrument :
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ClientSampleId :
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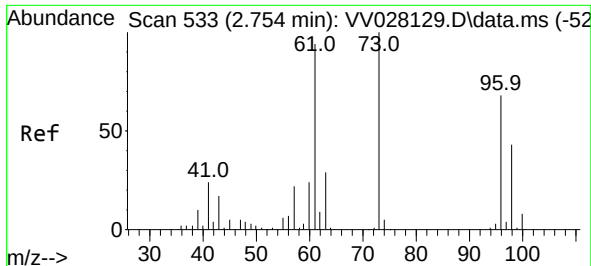
Tgt Ion: 43 Resp: 9554
Ion Ratio Lower Upper
43 100
74 0.0 16.9 25.3#



#17
Methyl tert-butyl Ether
Concen: 62.293 ug/L
RT: 2.764 min Scan# 536
Delta R.T. 0.000 min
Lab File: VV028144.D
Acq: 27 Sep 2022 17:05

Tgt Ion: 73 Resp: 1704504
Ion Ratio Lower Upper
73 100
43 18.1 15.7 23.5
57 24.6 17.8 26.8

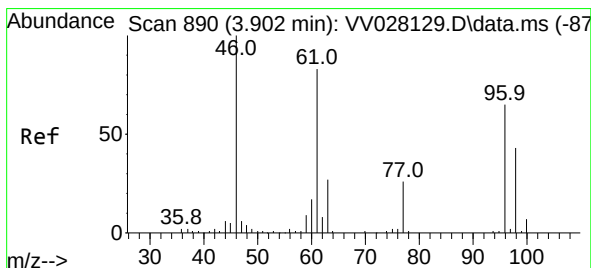
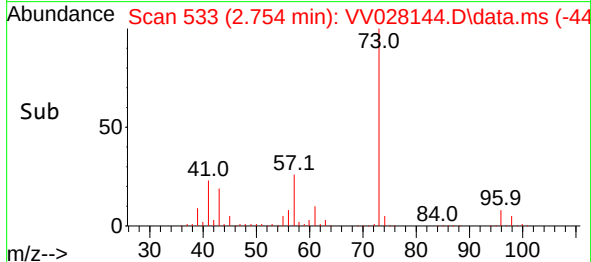
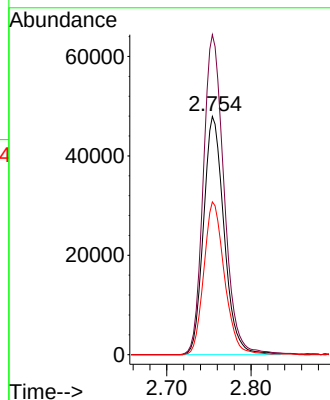
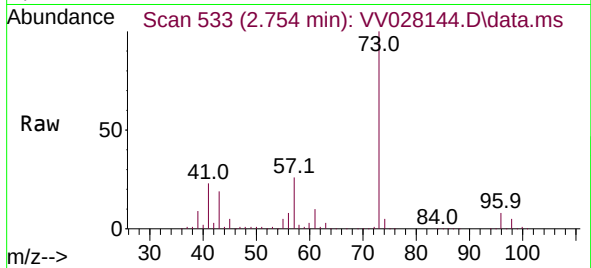




#18
trans-1,2-Dichloroethene
Concen: 7.324 ug/L
RT: 2.754 min Scan# 511
Delta R.T. 0.000 min
Lab File: VV028144.D
Acq: 27 Sep 2022 17:05

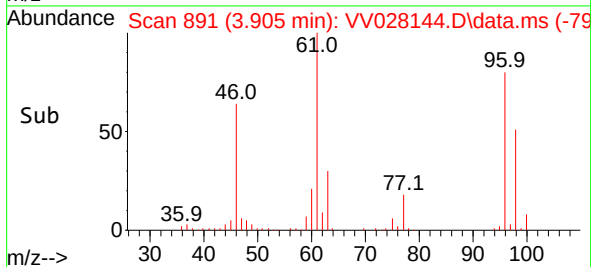
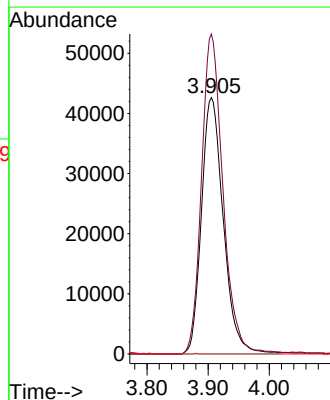
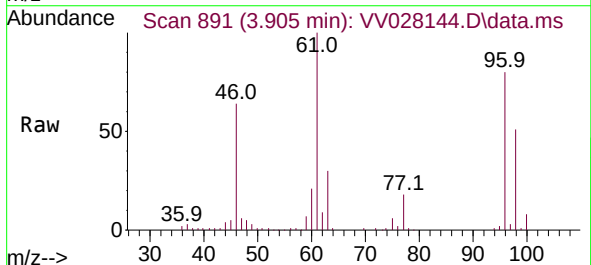
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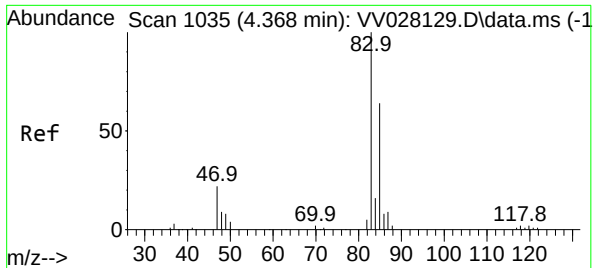
Tgt Ion: 96 Resp: 81547
Ion Ratio Lower Upper
96 100
61 134.3 96.2 178.6
98 64.1 45.7 84.9



#22
cis-1,2-Dichloroethene
Concen: 7.249 ug/L
RT: 3.905 min Scan# 891
Delta R.T. 0.003 min
Lab File: VV028144.D
Acq: 27 Sep 2022 17:05

Tgt Ion: 96 Resp: 105915
Ion Ratio Lower Upper
96 100
61 124.8 87.2 161.9
68 0.0 0.0 0.0

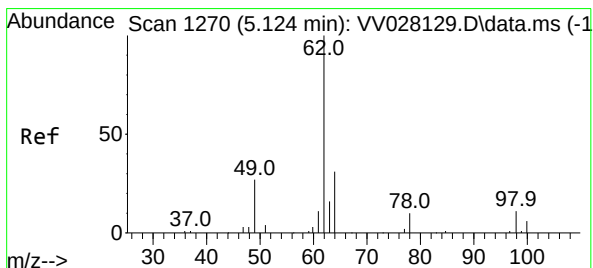
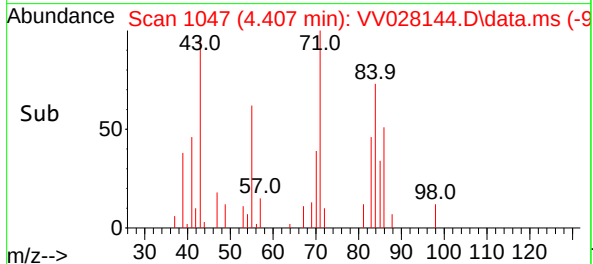
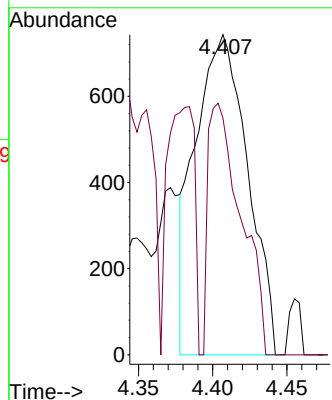
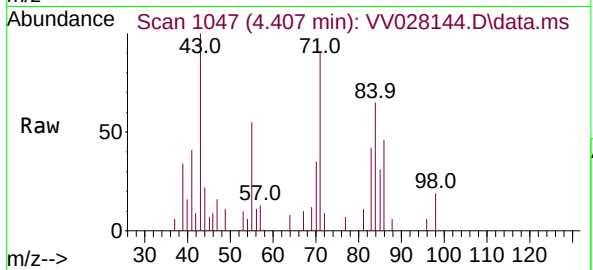




#25
Chloroform
Concen: 0.070 ug/L
RT: 4.407 min Scan# 1047
Delta R.T. 0.039 min
Lab File: VV028144.D
Acq: 27 Sep 2022 17:05

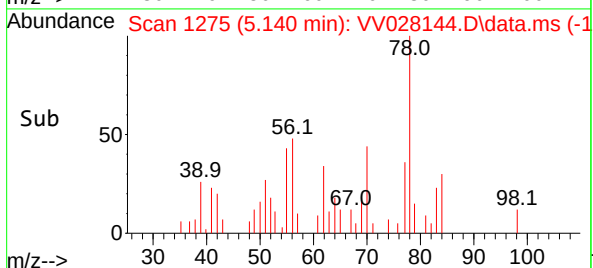
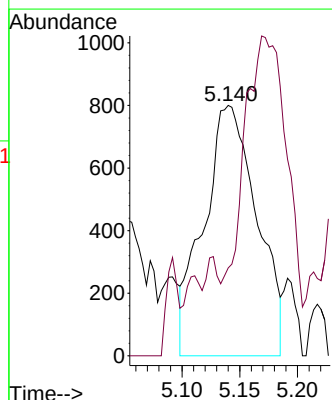
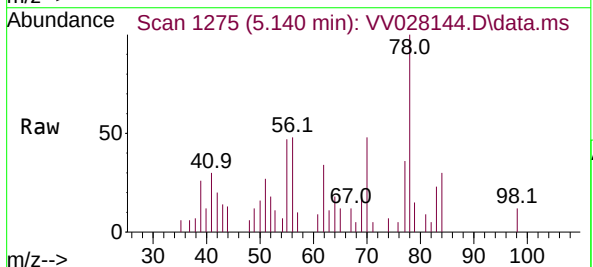
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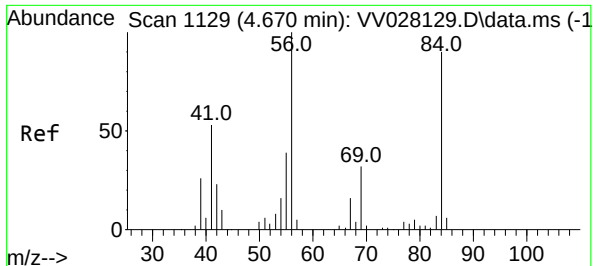
Tgt Ion: 83 Resp: 1828
Ion Ratio Lower Upper
83 100
85 74.0 45.1 83.7



#27
1,2-Dichloroethane
Concen: 0.185 ug/L
RT: 5.140 min Scan# 1275
Delta R.T. 0.016 min
Lab File: VV028144.D
Acq: 27 Sep 2022 17:05

Tgt Ion: 62 Resp: 2567
Ion Ratio Lower Upper
62 100
98 35.1 6.7 10.1#





#30

Cyclohexane

Concen: 0.832 ug/L

RT: 4.667 min Scan# 1128

Delta R.T. -0.003 min

Lab File: VV028144.D

Acq: 27 Sep 2022 17:05

Instrument :

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ClientSampleId :

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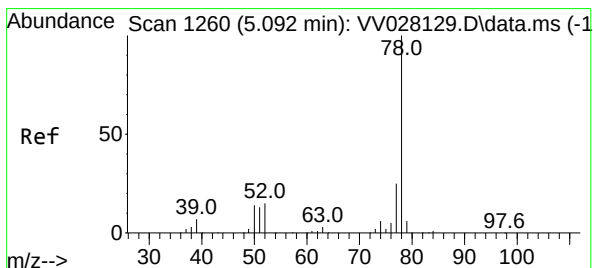
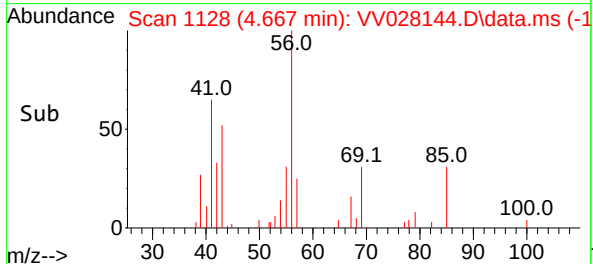
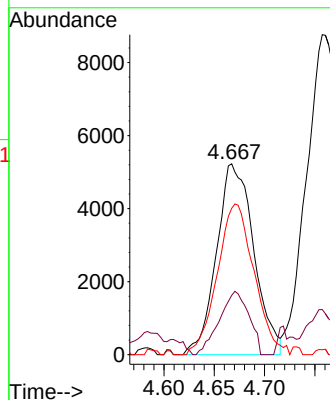
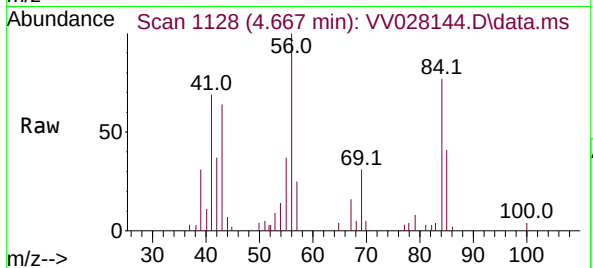
Tgt Ion: 56 Resp: 13458

Ion Ratio Lower Upper

56 100

69 26.4 23.7 35.5

84 78.0 67.3 100.9



#33

Benzene

Concen: 1.241 ug/L

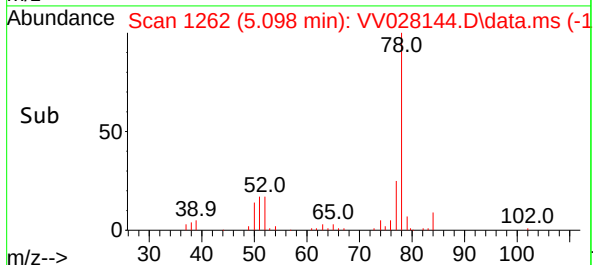
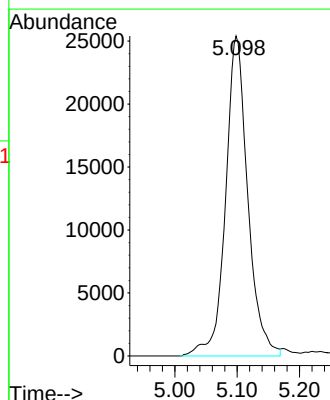
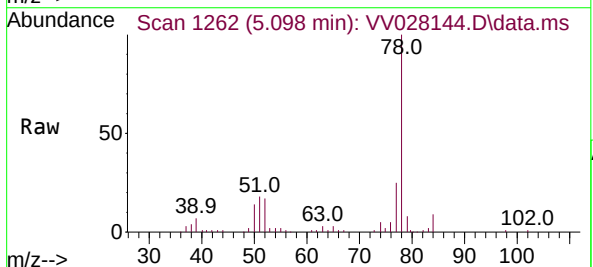
RT: 5.098 min Scan# 1262

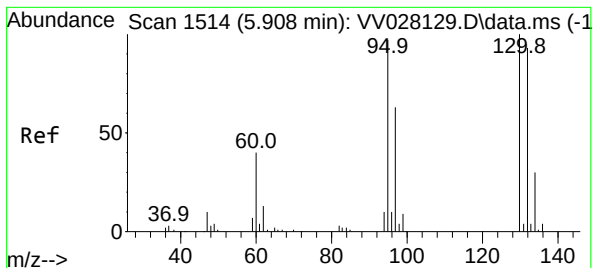
Delta R.T. 0.007 min

Lab File: VV028144.D

Acq: 27 Sep 2022 17:05

Tgt Ion: 78 Resp: 62745





#34

Trichloroethene

Concen: 1.169 ug/L

RT: 5.915 min Scan# 1516

Delta R.T. 0.007 min

Lab File: VV028144.D

Acq: 27 Sep 2022 17:05

Instrument :

MSVOA_V

ClientSampleId :

F5H32

Tgt Ion: 95 Resp: 14714

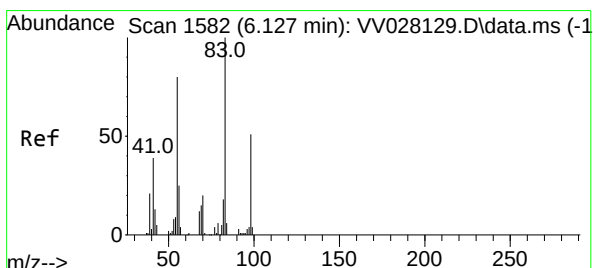
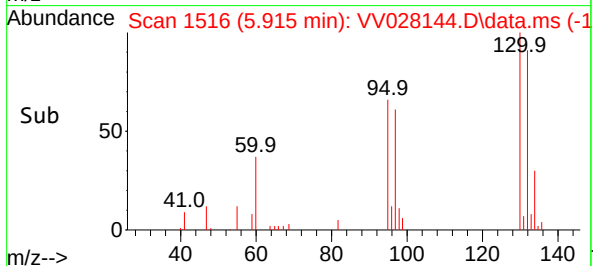
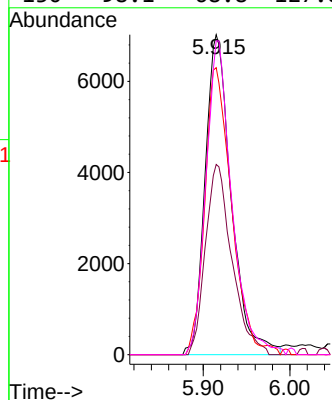
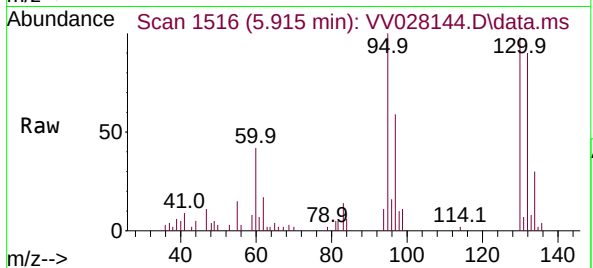
Ion Ratio Lower Upper

95 100

97 59.5 44.2 82.0

132 89.7 67.8 126.0

130 98.1 68.8 127.8



#35

Methylcyclohexane

Concen: 1.176 ug/L

RT: 6.066 min Scan# 1563

Delta R.T. -0.061 min

Lab File: VV028144.D

Acq: 27 Sep 2022 17:05

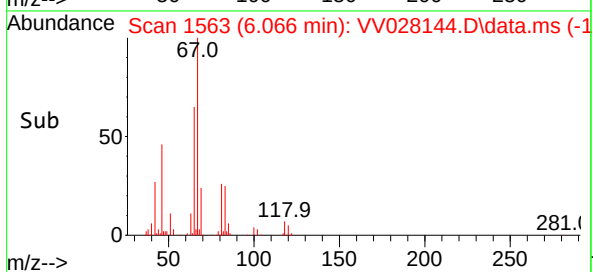
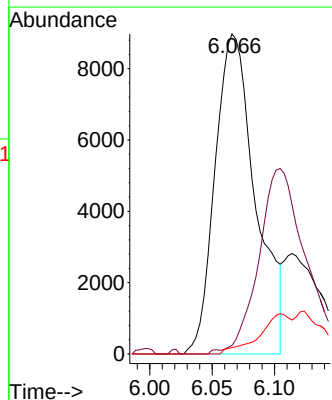
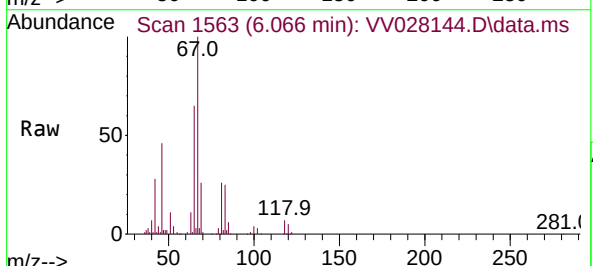
Tgt Ion: 83 Resp: 20297

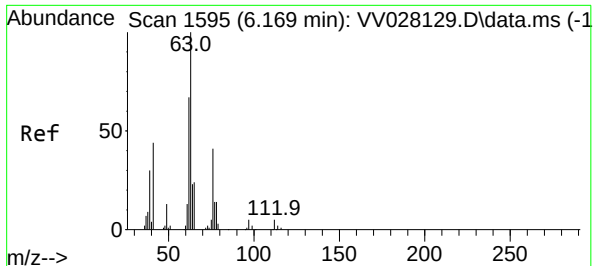
Ion Ratio Lower Upper

83 100

55 66.5 64.7 97.1

98 9.9 39.5 59.3#





#37

1,2-Dichloropropane

Concen: 0.573 ug/L

RT: 6.066 min Scan# 11

Delta R.T. -0.103 min

Lab File: VV028144.D

Acq: 27 Sep 2022 17:05

Instrument :

MSVOA_V

ClientSampleId :

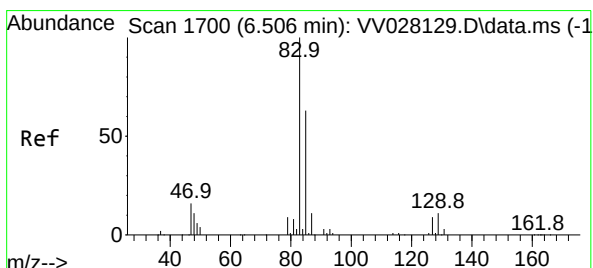
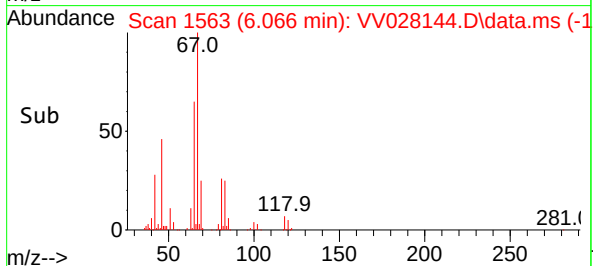
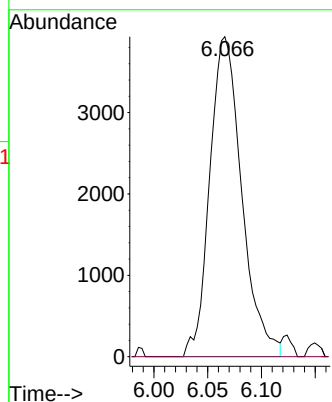
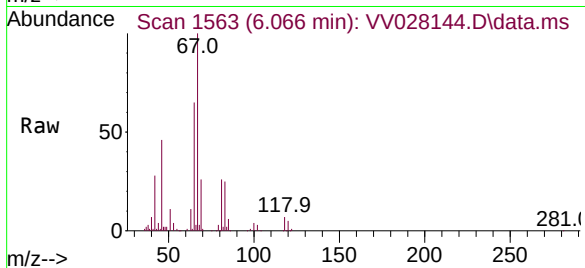
F5H32

Tgt Ion: 63 Resp: 8127

Ion Ratio Lower Upper

63 100

112 1.1 3.5 5.3#



#38

Bromodichloromethane

Concen: 0.067 ug/L

RT: 6.539 min Scan# 1710

Delta R.T. 0.032 min

Lab File: VV028144.D

Acq: 27 Sep 2022 17:05

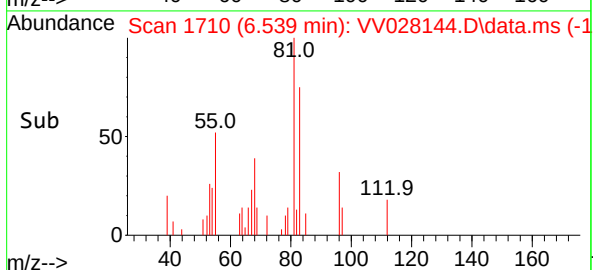
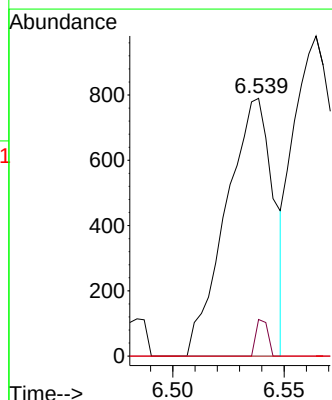
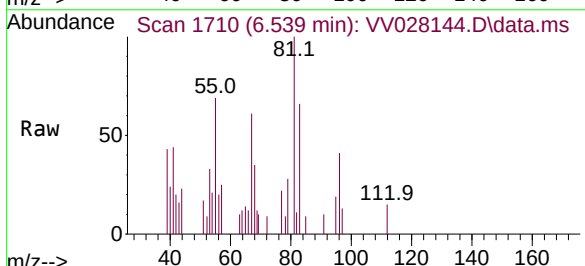
Tgt Ion: 83 Resp: 1172

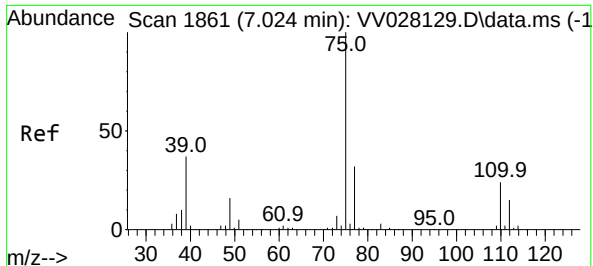
Ion Ratio Lower Upper

83 100

85 14.2 43.8 81.4#

127 0.0 6.3 9.5#





#39

cis-1,3-Dichloropropene

Concen: 0.095 ug/L

RT: 6.986 min Scan# 11

Delta R.T. -0.038 min

Lab File: VV028144.D

Acq: 27 Sep 2022 17:05

Instrument :

MSVOA_V

ClientSampleId :

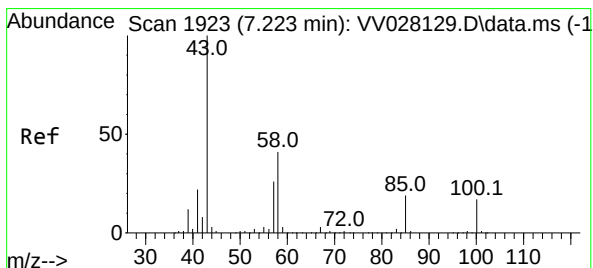
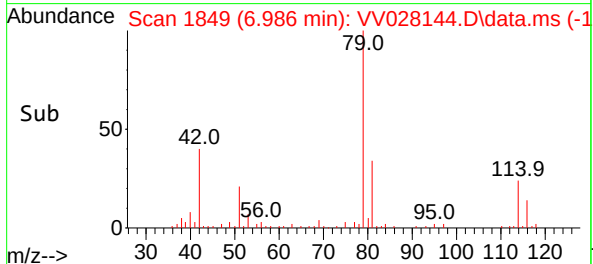
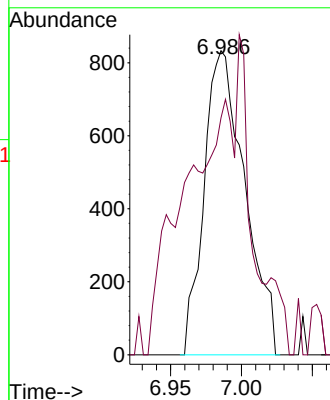
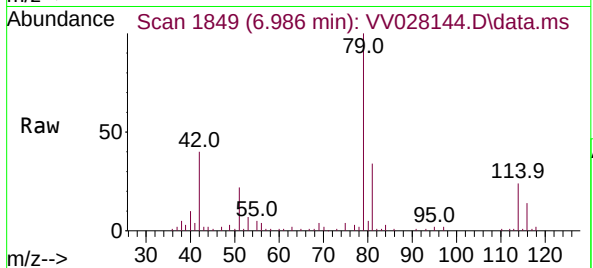
F5H32

Tgt Ion: 75 Resp: 1669

Ion Ratio Lower Upper

75 100

77 77.9 22.4 41.6#



#40

4-Methyl-2-pentanone

Concen: 0.857 ug/L

RT: 7.240 min Scan# 1928

Delta R.T. 0.016 min

Lab File: VV028144.D

Acq: 27 Sep 2022 17:05

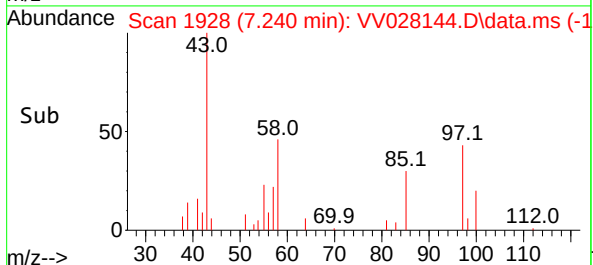
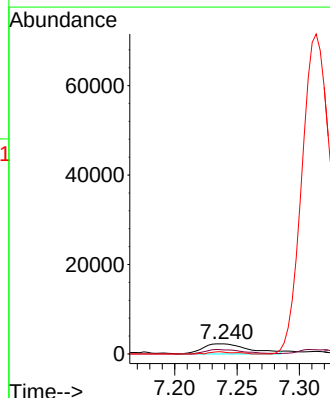
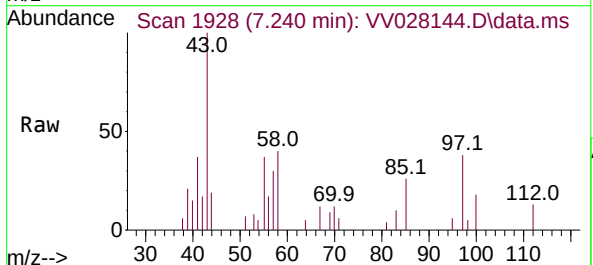
Tgt Ion: 43 Resp: 5899

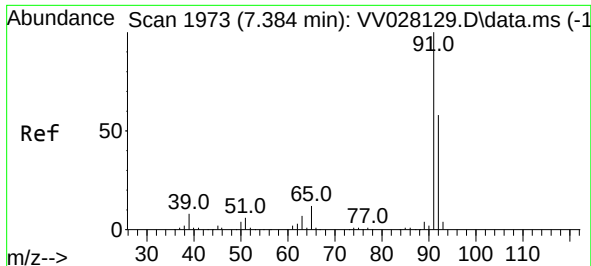
Ion Ratio Lower Upper

43 100

58 36.6 32.2 48.4

100 0.0 12.7 19.1#





#42

Toluene

Concen: 0.211 ug/L

RT: 7.394 min Scan# 1973

Delta R.T. 0.010 min

Lab File: VV028144.D

Acq: 27 Sep 2022 17:05

Instrument :

MSVOA_V

ClientSampleId :

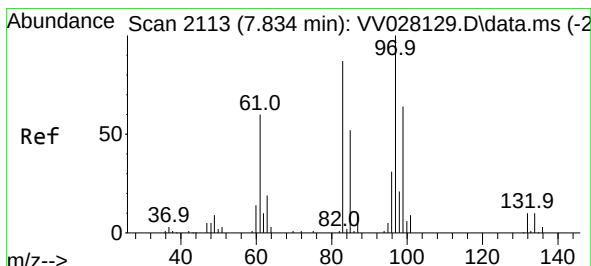
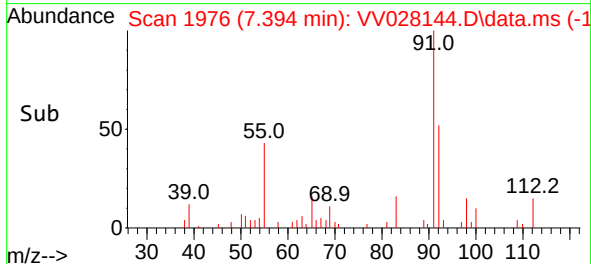
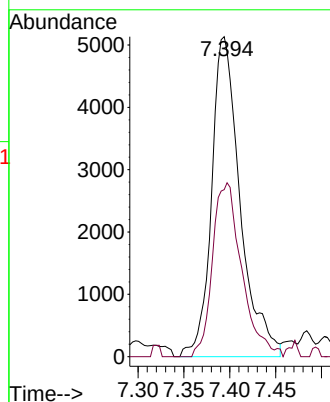
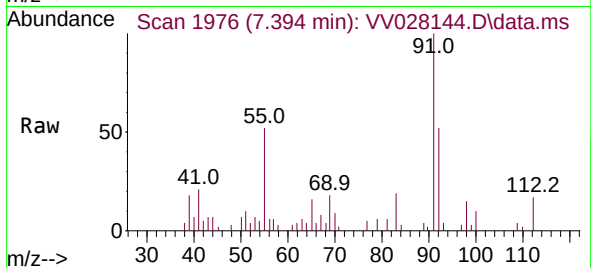
F5H32

Tgt Ion: 91 Resp: 11134

Ion Ratio Lower Upper

91 100

92 52.2 40.2 74.6



#45

1,1,2-Trichloroethane

Concen: 1.278 ug/L

RT: 7.786 min Scan# 2098

Delta R.T. -0.048 min

Lab File: VV028144.D

Acq: 27 Sep 2022 17:05

Tgt Ion: 97 Resp: 12140

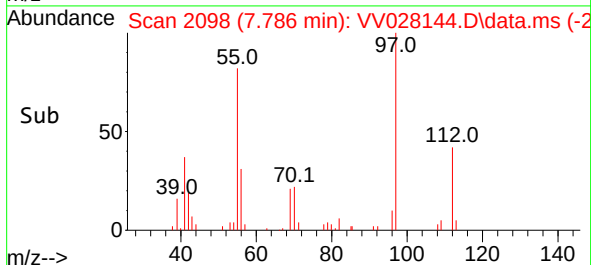
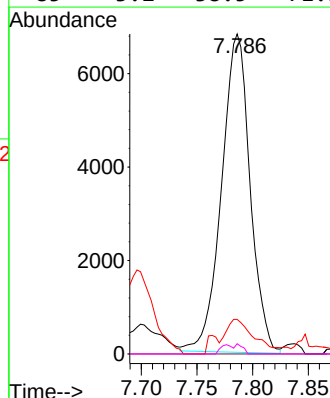
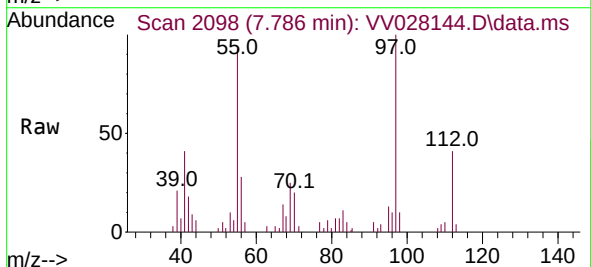
Ion Ratio Lower Upper

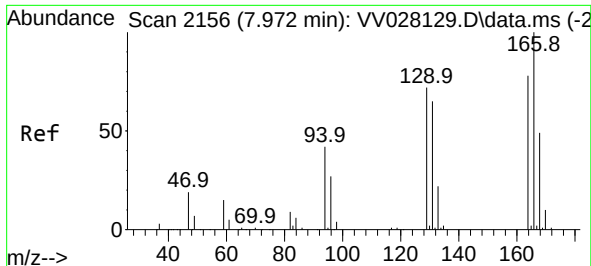
97 100

99 0.0 43.2 80.2#

83 10.8 59.1 109.9#

85 3.2 38.5 71.5#





#47

Tetrachloroethene

Concen: 1.719 ug/L

RT: 7.973 min Scan# 2156

Delta R.T. 0.000 min

Lab File: VV028144.D

Acq: 27 Sep 2022 17:05

Instrument :

MSVOA_V

ClientSampleId :

F5H32

Tgt Ion:164 Resp: 17271

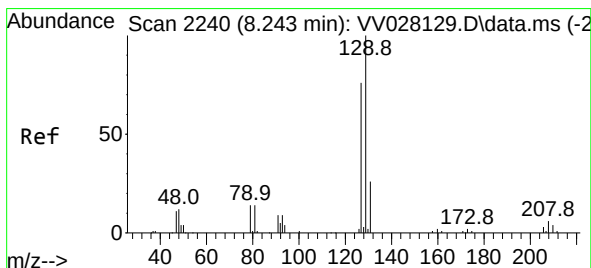
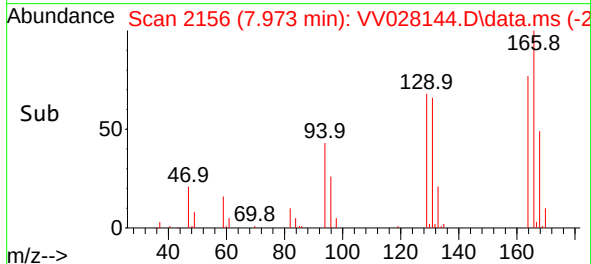
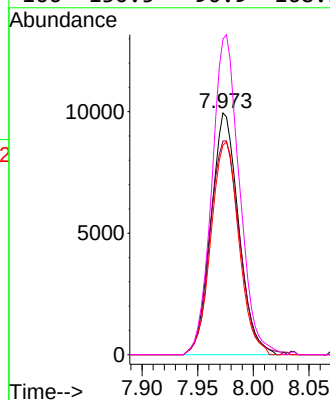
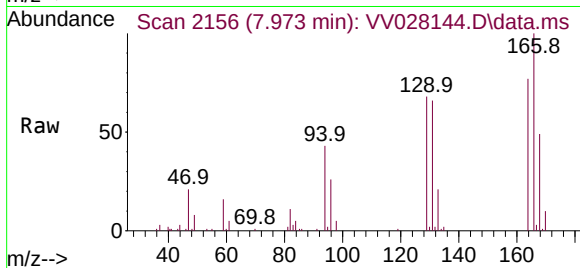
Ion Ratio Lower Upper

164 100

129 88.4 66.7 123.9

131 86.6 61.7 114.5

166 130.5 90.9 168.9



#49

Dibromochloromethane

Concen: 1.387 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. -0.267 min

Lab File: VV028144.D

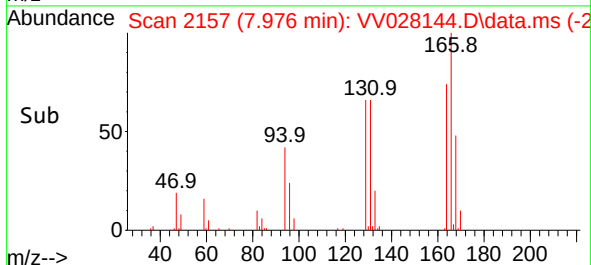
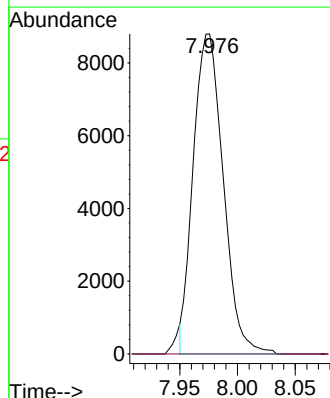
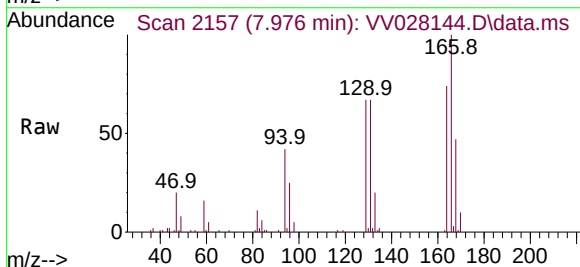
Acq: 27 Sep 2022 17:05

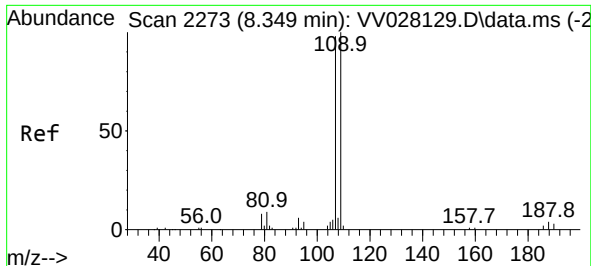
Tgt Ion:129 Resp: 15841

Ion Ratio Lower Upper

129 100

127 0.0 54.3 100.9#





#50

1,2-Dibromoethane

Concen: 0.043 ug/L

RT: 8.387 min Scan# 21

Delta R.T. 0.039 min

Lab File: VV028144.D

Acq: 27 Sep 2022 17:05

Instrument :

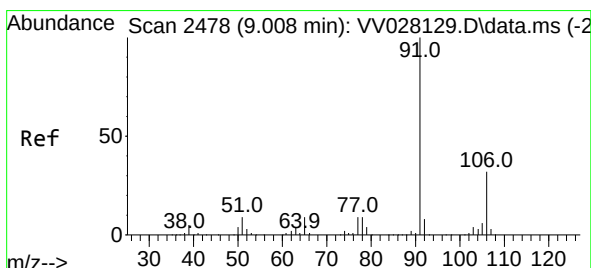
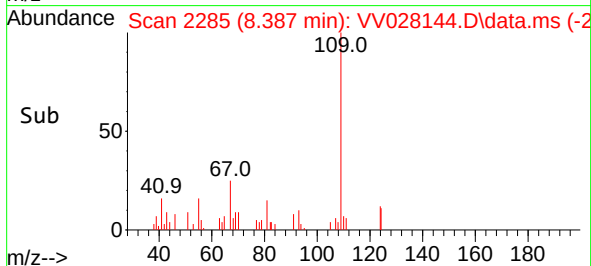
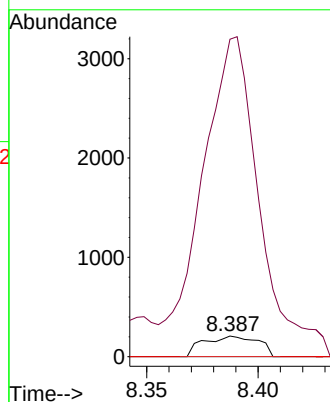
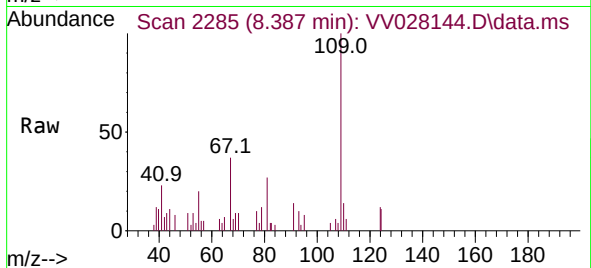
MSVOA_V

ClientSampleId :

F5H32

Tgt Ion:107 Resp: 352

Ion	Ratio	Lower	Upper
107	100		
109	1544.4	65.9	122.5#
188	0.0	3.4	5.0#



#52

Ethylbenzene

Concen: 0.358 ug/L

RT: 9.014 min Scan# 2480

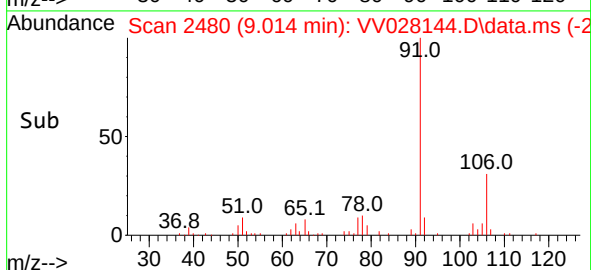
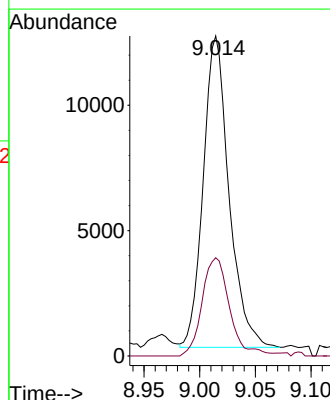
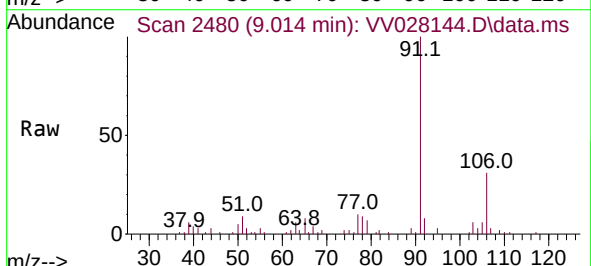
Delta R.T. 0.007 min

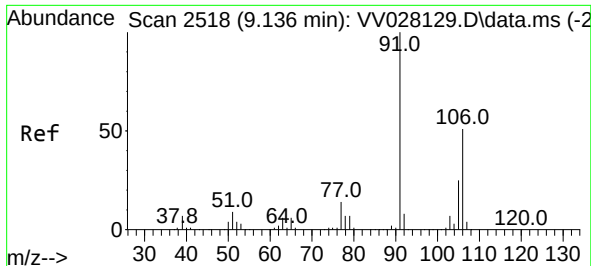
Lab File: VV028144.D

Acq: 27 Sep 2022 17:05

Tgt Ion: 91 Resp: 19988

Ion	Ratio	Lower	Upper
91	100		
106	30.7	21.5	39.9

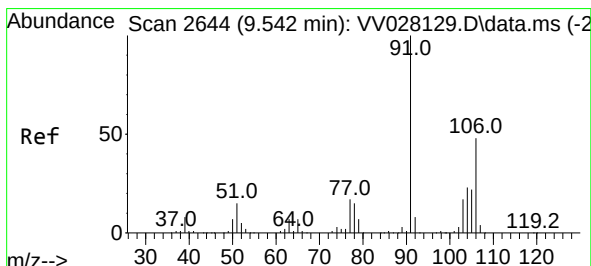
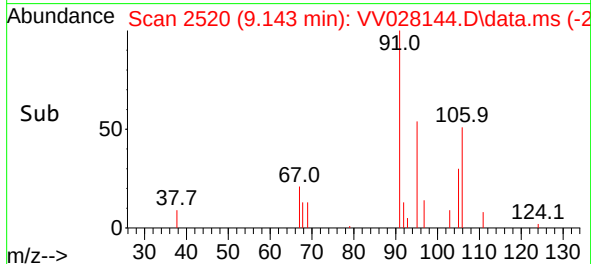
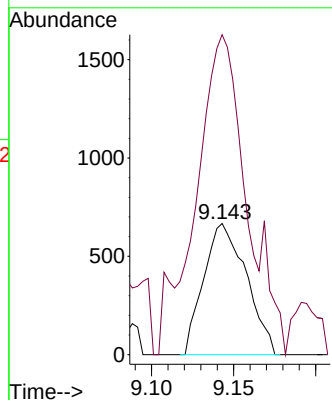
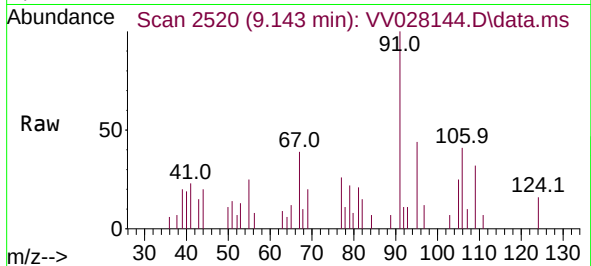




#53
m,p-Xylene
Concen: 0.056 ug/L
RT: 9.143 min Scan# 21
Delta R.T. 0.007 min
Lab File: VV028144.D
Acq: 27 Sep 2022 17:05

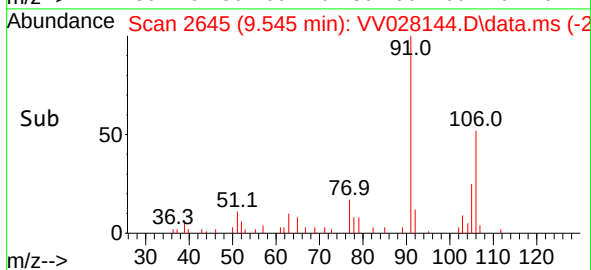
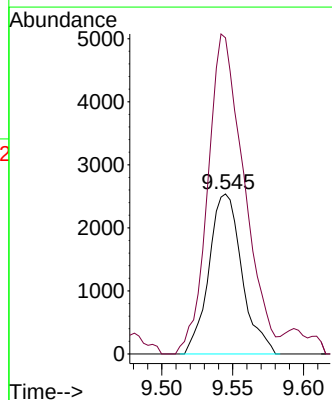
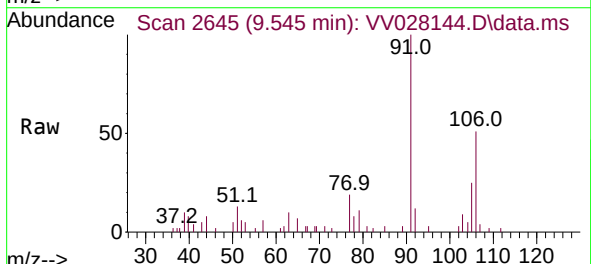
Instrument :
MSVOA_V
ClientSampleId :
F5H32

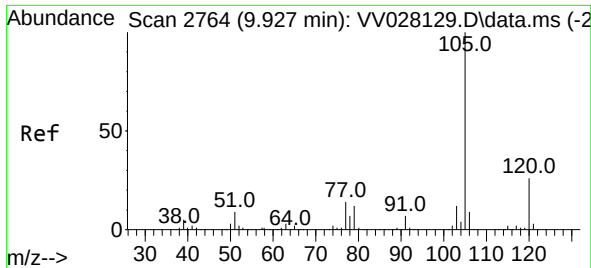
Tgt Ion:106 Resp: 1204
Ion Ratio Lower Upper
106 100
91 243.9 141.9 263.5



#54
o-Xylene
Concen: 0.194 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. 0.003 min
Lab File: VV028144.D
Acq: 27 Sep 2022 17:05

Tgt Ion:106 Resp: 4106
Ion Ratio Lower Upper
106 100
91 197.7 148.1 275.0

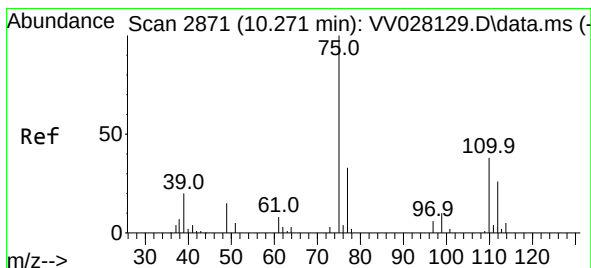
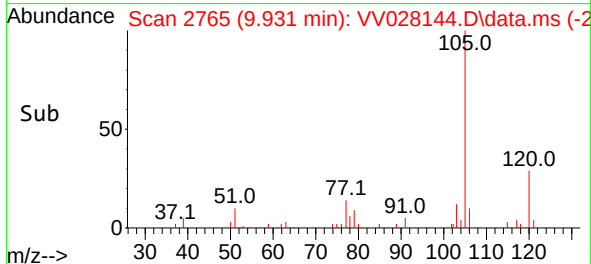
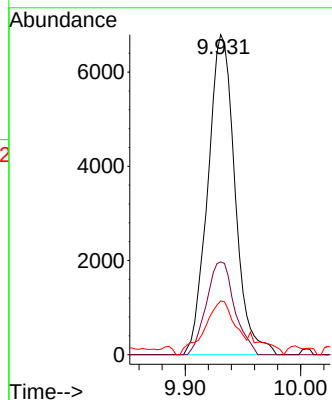
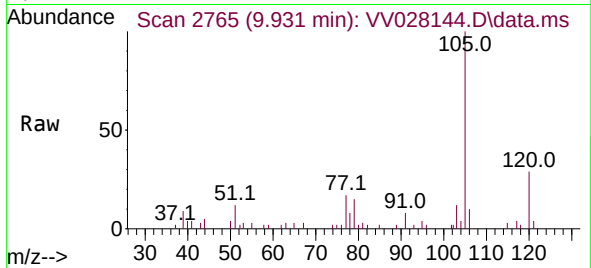




#60
Isopropylbenzene
Concen: 0.206 ug/L
RT: 9.931 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV028144.D
Acq: 27 Sep 2022 17:05

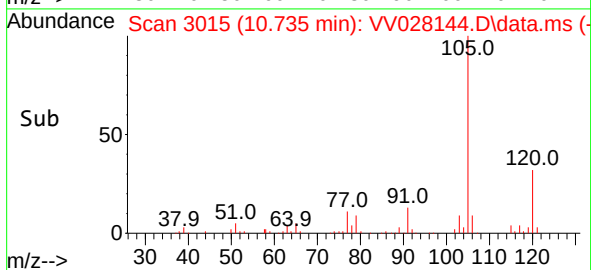
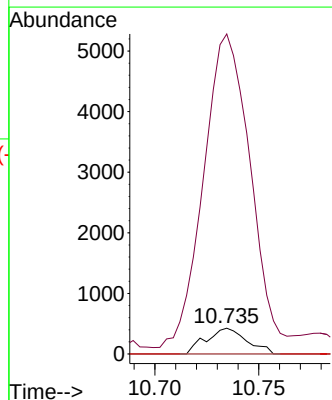
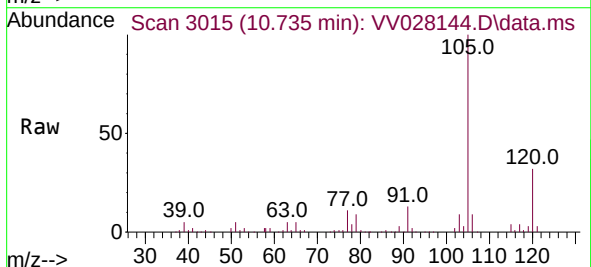
Instrument :
MSVOA_V
ClientSampleId :
F5H32

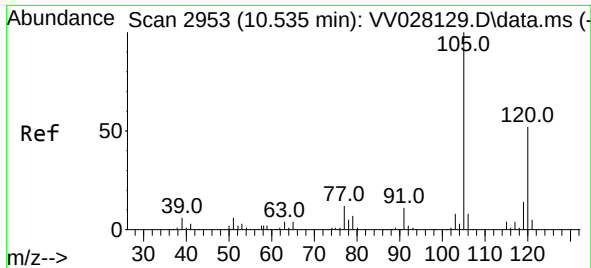
Tgt Ion:105 Resp: 11095
Ion Ratio Lower Upper
105 100
120 30.0 21.4 32.0
77 22.6 12.2 18.4#



#61
1,2,3-Trichloropropane
Concen: 0.075 ug/L
RT: 10.735 min Scan# 3015
Delta R.T. 0.463 min
Lab File: VV028144.D
Acq: 27 Sep 2022 17:05

Tgt Ion: 75 Resp: 578
Ion Ratio Lower Upper
75 100
77 1397.4 26.7 40.1#
110 0.0 30.1 45.1#

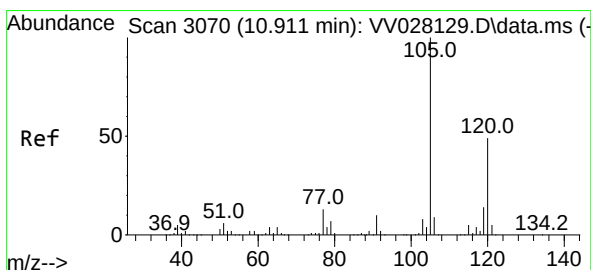
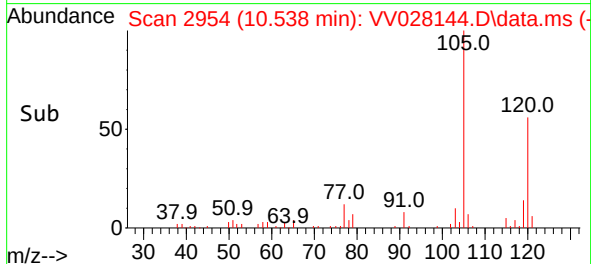
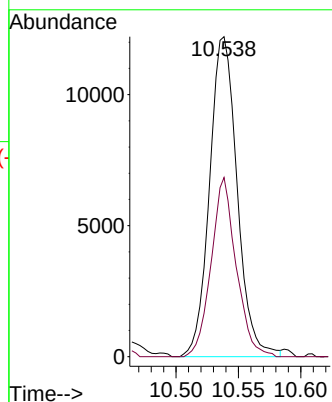
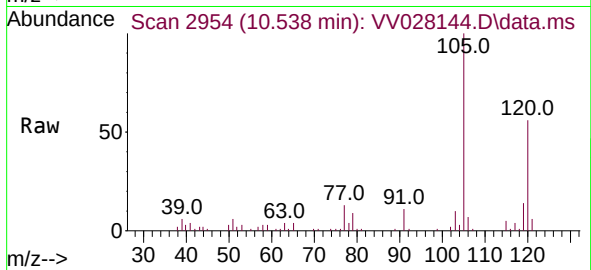




#62
 1,3,5-Trimethylbenzene
 Concen: 1.242 ug/L
 RT: 10.538 min Scan# 2953
 Delta R.T. 0.003 min
 Lab File: VV028144.D
 Acq: 27 Sep 2022 17:05

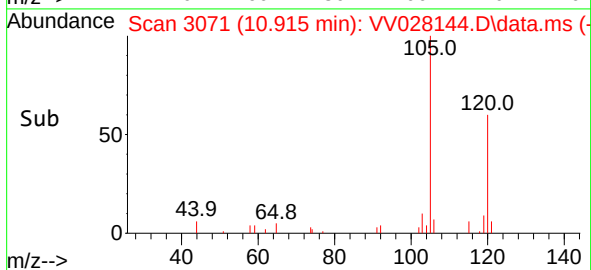
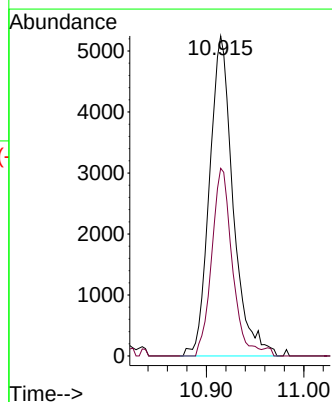
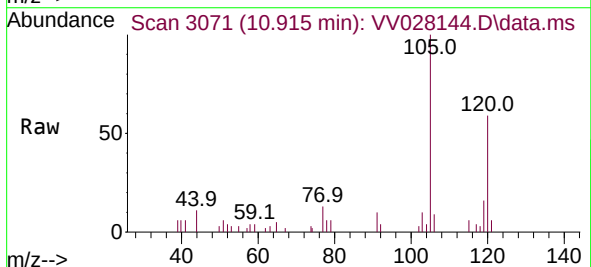
Instrument :
 MSVOA_V
 ClientSampleId :
 F5H32

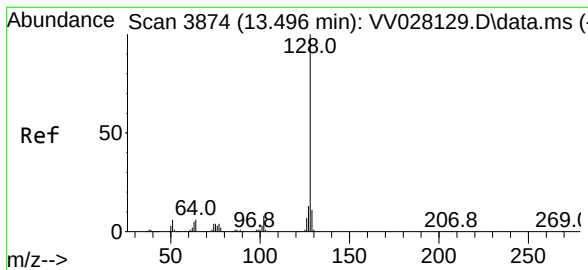
Tgt Ion:105 Resp: 18843
 Ion Ratio Lower Upper
 105 100
 120 50.7 40.6 61.0



#63
 1,2,4-Trimethylbenzene
 Concen: 0.208 ug/L
 RT: 10.915 min Scan# 3071
 Delta R.T. 0.003 min
 Lab File: VV028144.D
 Acq: 27 Sep 2022 17:05

Tgt Ion:105 Resp: 8833
 Ion Ratio Lower Upper
 105 100
 120 50.9 37.8 56.8





#71
Naphthalene
Concen: 0.169 ug/L
RT: 13.503 min Scan# 3876
Delta R.T. 0.007 min
Lab File: VV028144.D
Acq: 27 Sep 2022 17:05

Instrument :
MSVOA_V
ClientSampleId :
F5H32

Tgt Ion:	128	Resp:	4704
Ion Ratio	Lower	Upper	
128	100		
129	0.0	8.2	12.2#
127	12.6	10.4	15.6

