

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW092822\
 Data File : VW028156.D
 Acq On : 28 Sep 2022 14:00
 Operator : SY/MD
 Sample : N4820-12
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 CB8P1

Quant Time: Sep 29 01:27:52 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR092222WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Sep 29 01:25:35 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.616	114	172489	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.850	117	170010	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.246	152	96870	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.298	65	50681	2.834	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	56.600%
7) Chloroethane-d5	1.561	69	48357	3.401	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	68.000%
11) 1,1-Dichloroethene-d2	2.098	63	70049	2.259	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	45.200%#
20) 2-Butanone-d5	3.915	46	147880	48.983	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.960%
24) Chloroform-d	4.343	84	123126	4.315	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.200%
26) 1,2-Dichloroethane-d4	5.031	65	61208	4.508	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.200%
32) Benzene-d6	5.047	84	222488	3.991	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.800%
36) 1,2-Dichloropropane-d6	6.066	67	75705	4.356	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.200%
41) Toluene-d8	7.314	98	174834	3.465	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	69.200%#
43) trans-1,3-Dichloroprop...	7.622	79	25848	4.118	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.400%
46) 2-Hexanone-d5	8.088	63	147350	56.240	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	112.480%
56) 1,1,2,2-Tetrachloroeth...	10.214	84	65605	5.523	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	110.400%
66) 1,2-Dichlorobenzene-d4	11.622	152	89439	4.707	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.237	50	1286	0.075	ug/L #	40
5) Vinyl chloride	1.301	62	2859	0.214	ug/L #	47
8) Chloroethane	1.500	64	58616	6.535	ug/L #	52
13) Acetone	2.217	43	19972	8.589	ug/L	66
14) Carbon disulfide	2.285	76	5551	0.243	ug/L #	94
17) Methyl tert-butyl Ether	2.770	73	33566	1.309	ug/L	98
18) trans-1,2-Dichloroethene	2.757	96	1141	0.109	ug/L	73
22) cis-1,2-Dichloroethene	3.905	96	1710	0.125	ug/L #	1
30) Cyclohexane	4.671	56	4159	0.275	ug/L #	75
33) Benzene	5.101	78	20325	0.431	ug/L	100
35) Methylcyclohexane	6.124	83	15607	0.968	ug/L	97
37) 1,2-Dichloropropane	6.069	63	7983	0.603	ug/L #	88
42) Toluene	7.391	91	11272	0.229	ug/L	94
45) 1,1,2-Trichloroethane	7.783	97	2618	0.295	ug/L #	22
51) Chlorobenzene	8.876	112	1640935	49.681	ug/L	100
52) Ethylbenzene	9.014	91	3404	0.065	ug/L	89
53) m,p-Xylene	9.143	106	7112	0.356	ug/L	94
54) o-Xylene	9.545	106	6004	0.305	ug/L	91
57) 1,1,2,2-Tetrachloroethane	10.236	83	4216	0.408	ug/L #	40

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 ALS Vial : 9 Sample Multiplier: 1

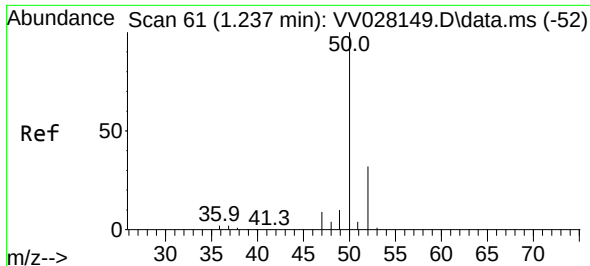
Instrument :
 MSVOA_V
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

60) Isopropylbenzene	9.928	105	72036	1.267	ug/L #	86
61) 1,2,3-Trichloropropane	11.182	75	7379	0.908	ug/L #	49
62) 1,3,5-Trimethylbenzene	10.535	105	3229	0.202	ug/L #	84
63) 1,2,4-Trimethylbenzene	10.915	105	7043	0.157	ug/L	89
64) 1,3-Dichlorobenzene	11.182	146	25787	0.911	ug/L	96
65) 1,4-Dichlorobenzene	11.272	146	57635	2.036	ug/L	96
68) 1,2-Dibromo-3-chloropr...	12.410	75	2234	1.254	ug/L #	1
71) Naphthalene	13.509	128	5267	0.180	ug/L #	85

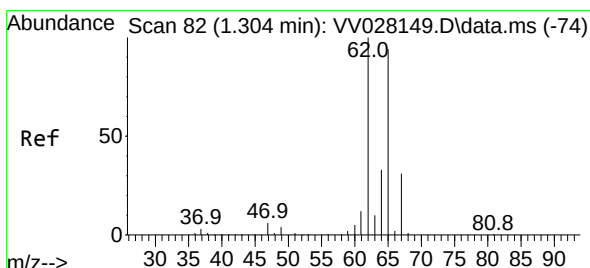
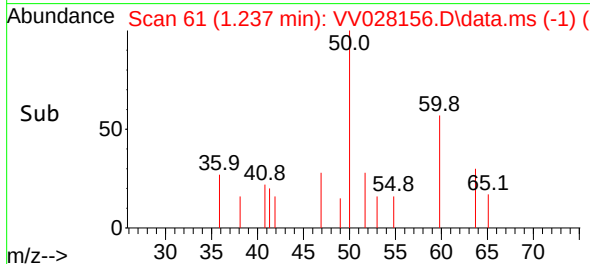
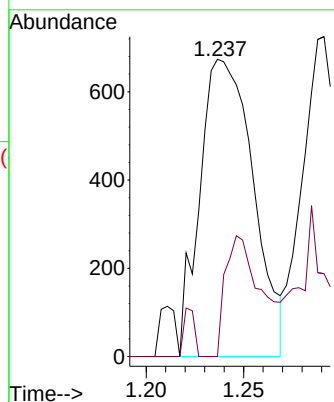
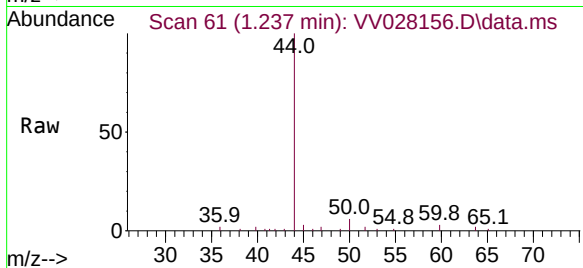
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#3
Chloromethane
Concen: 0.075 ug/L
RT: 1.237 min Scan# 61
Delta R.T. 0.000 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

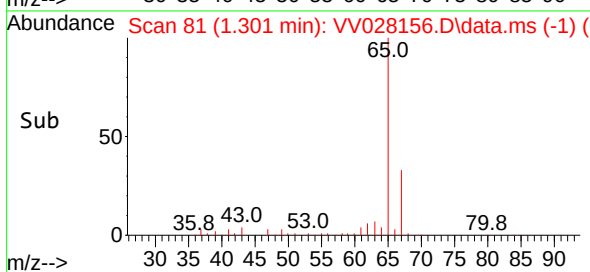
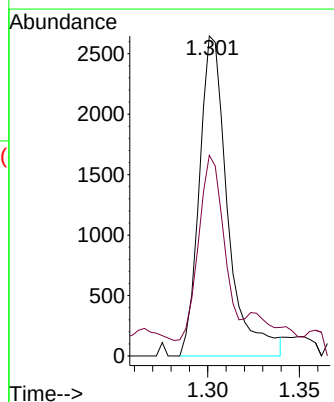
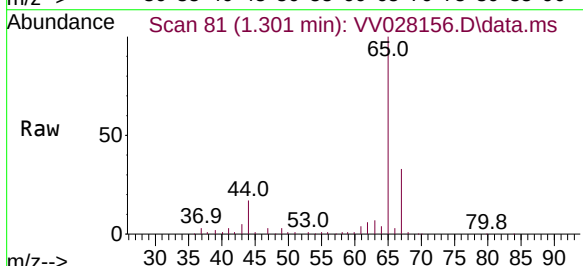
Instrument :
MSVOA_V
ClientSampleId :
CB8P1

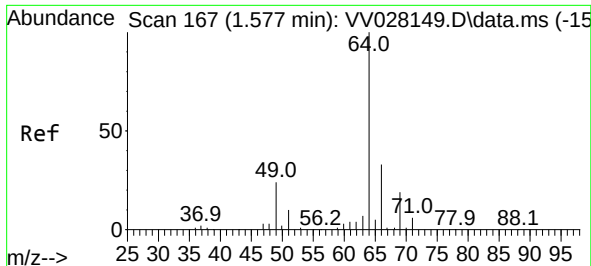
Tgt Ion: 50 Resp: 1286
Ion Ratio Lower Upper
50 100
52 0.0 24.4 45.2#



#5
Vinyl chloride
Concen: 0.214 ug/L
RT: 1.301 min Scan# 81
Delta R.T. -0.003 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

Tgt Ion: 62 Resp: 2859
Ion Ratio Lower Upper
62 100
64 62.7 23.0 42.8#

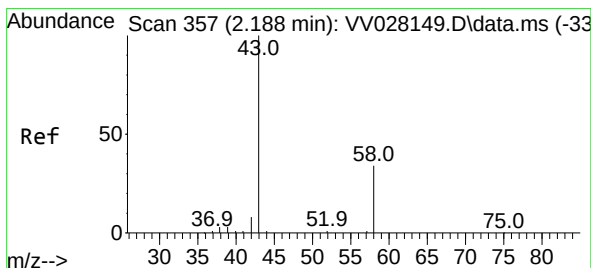
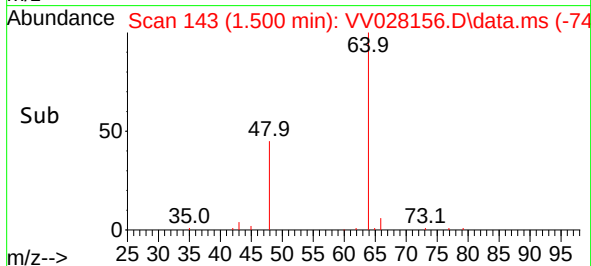
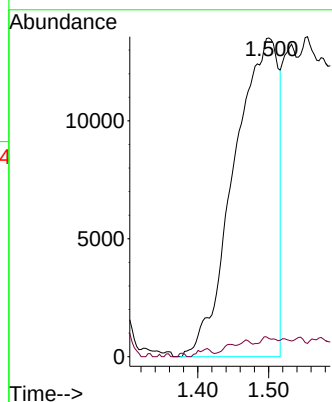
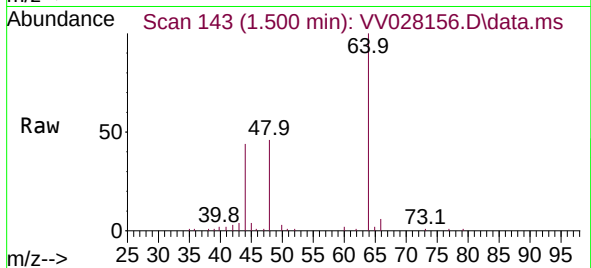




#8
Chloroethane
Concen: 6.535 ug/L
RT: 1.500 min Scan# 14
Delta R.T. -0.077 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

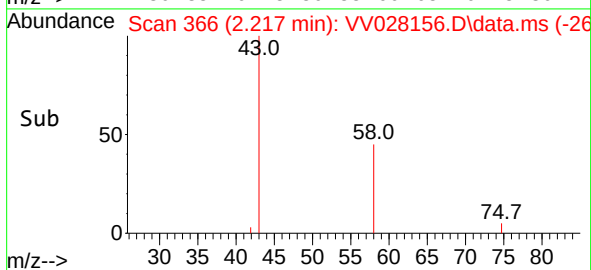
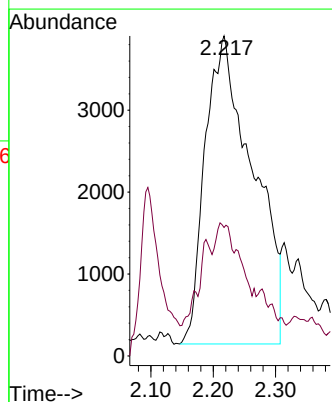
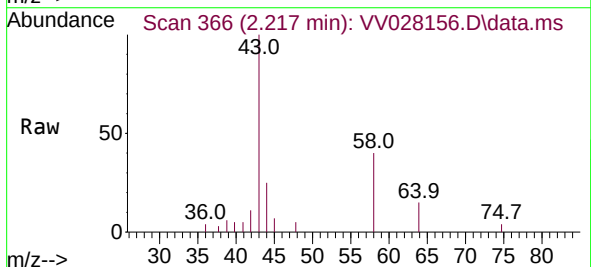
Instrument :
MSVOA_V
ClientSampleId :
CB8P1

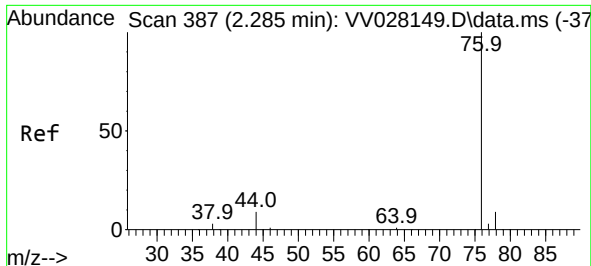
Tgt Ion: 64 Resp: 58616
Ion Ratio Lower Upper
64 100
66 5.7 23.0 42.8#



#13
Acetone
Concen: 8.589 ug/L
RT: 2.217 min Scan# 366
Delta R.T. 0.029 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

Tgt Ion: 43 Resp: 19972
Ion Ratio Lower Upper
43 100
58 13.5 0.0 65.6





#14

Carbon disulfide

Concen: 0.243 ug/L

RT: 2.285 min Scan# 387

Delta R.T. 0.000 min

Lab File: VV028156.D

Acq: 28 Sep 2022 14:00

Instrument :

MSVOA_V

ClientSampleId :

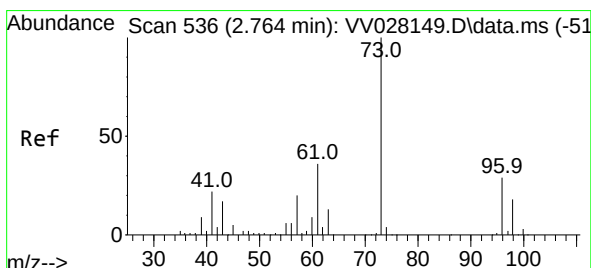
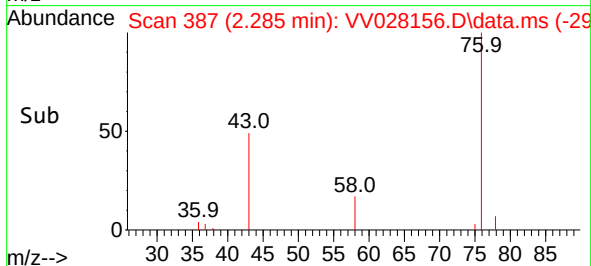
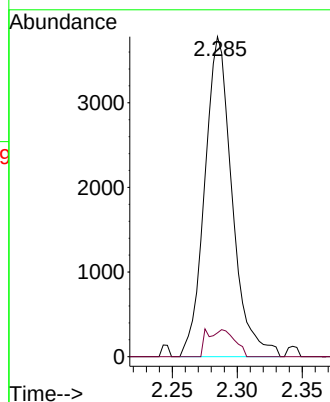
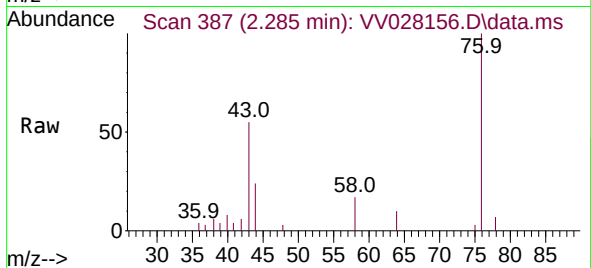
CB8P1

Tgt Ion: 76 Resp: 5551

Ion Ratio Lower Upper

76 100

78 7.5 7.6 11.4#



#17

Methyl tert-butyl Ether

Concen: 1.309 ug/L

RT: 2.770 min Scan# 538

Delta R.T. 0.006 min

Lab File: VV028156.D

Acq: 28 Sep 2022 14:00

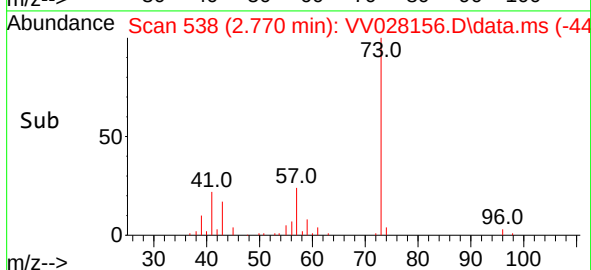
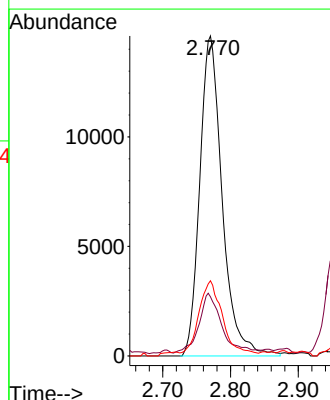
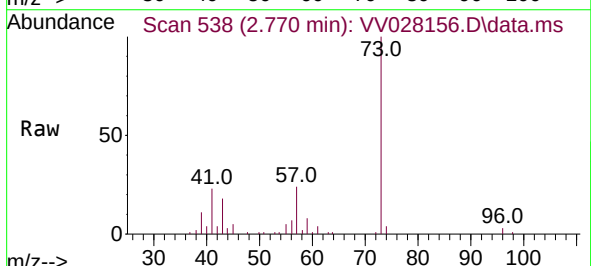
Tgt Ion: 73 Resp: 33566

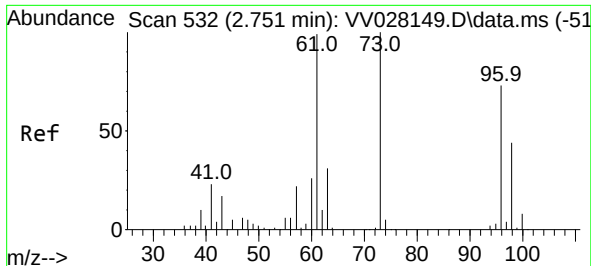
Ion Ratio Lower Upper

73 100

43 19.0 15.7 23.5

57 23.6 17.8 26.8

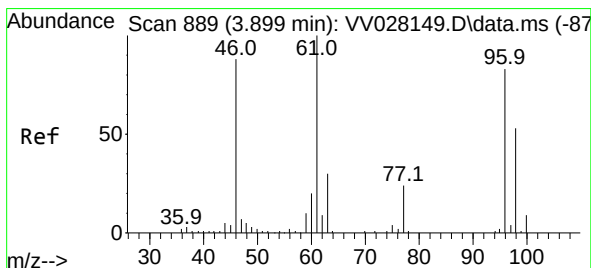
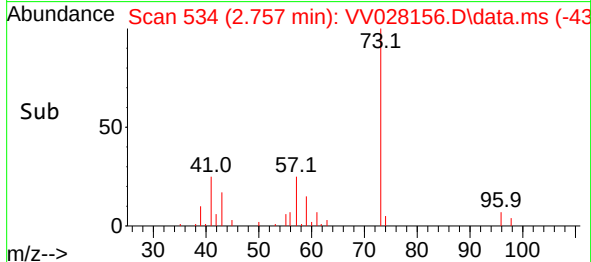
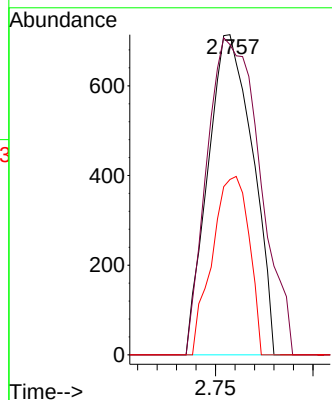
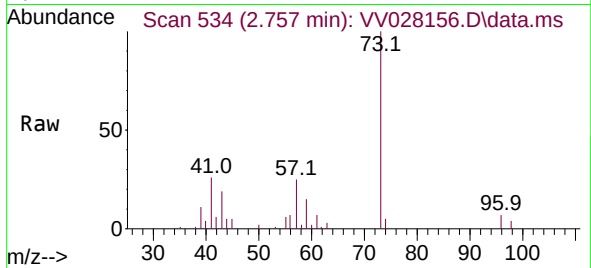




#18
trans-1,2-Dichloroethene
Concen: 0.109 ug/L
RT: 2.757 min Scan# 511
Delta R.T. 0.006 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

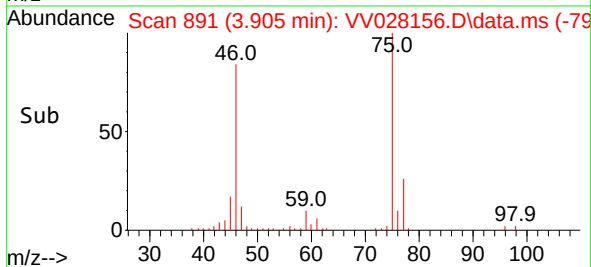
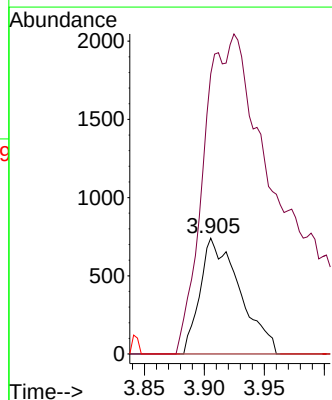
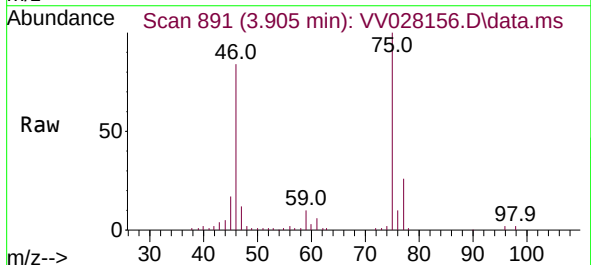
Instrument :
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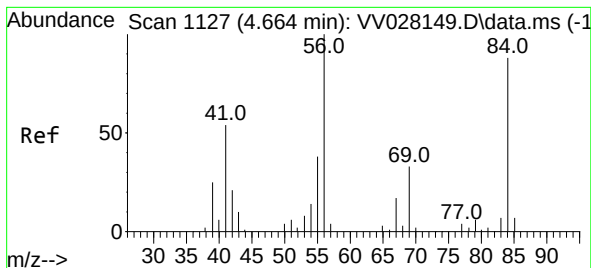
Tgt Ion: 96 Resp: 1141
Ion Ratio Lower Upper
96 100
61 96.9 96.2 178.6
98 54.8 45.7 84.9



#22
cis-1,2-Dichloroethene
Concen: 0.125 ug/L
RT: 3.905 min Scan# 891
Delta R.T. 0.006 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

Tgt Ion: 96 Resp: 1710
Ion Ratio Lower Upper
96 100
61 241.7 87.2 161.9#
68 0.0 0.0 0.0





#30

Cyclohexane

Concen: 0.275 ug/L

RT: 4.671 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VV028156.D

Acq: 28 Sep 2022 14:00

Instrument :

MSVOA_V

ClientSampleId :

CB8P1

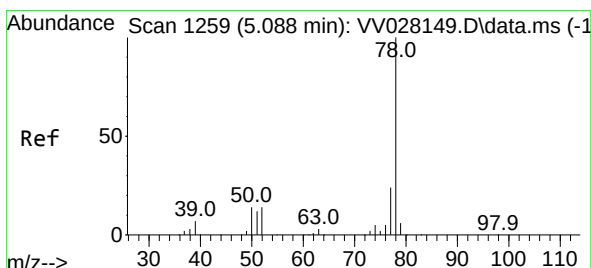
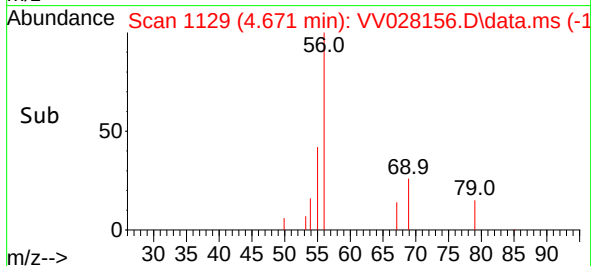
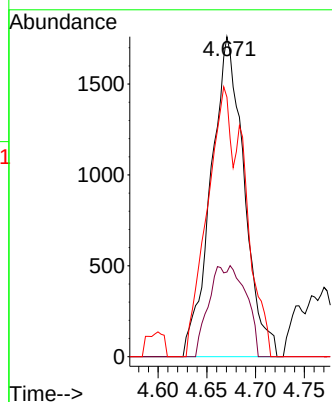
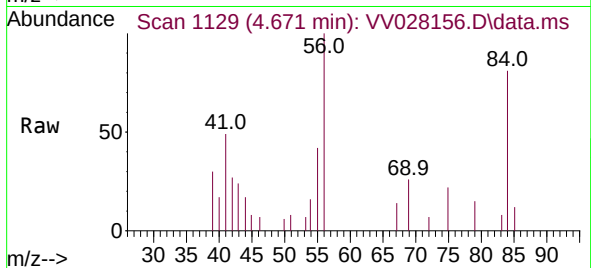
Tgt Ion: 56 Resp: 4159

Ion Ratio Lower Upper

56 100

69 14.0 23.7 35.5#

84 62.2 67.3 100.9#



#33

Benzene

Concen: 0.431 ug/L

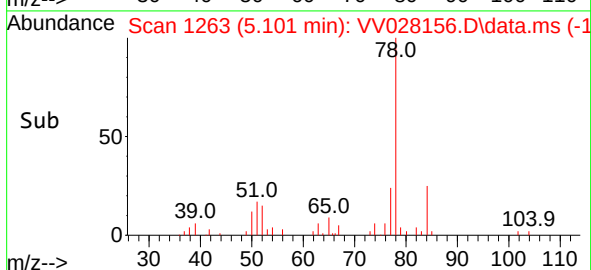
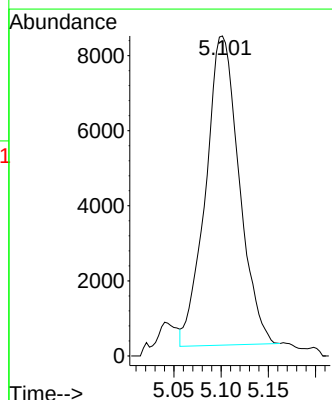
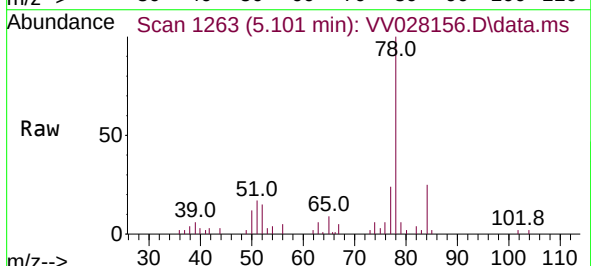
RT: 5.101 min Scan# 1263

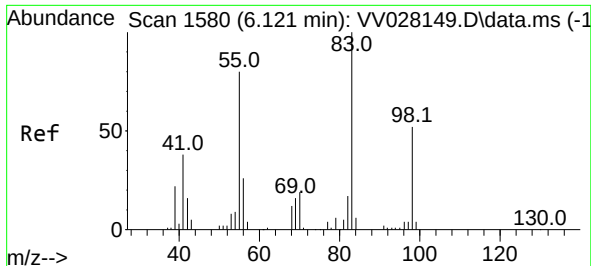
Delta R.T. 0.013 min

Lab File: VV028156.D

Acq: 28 Sep 2022 14:00

Tgt Ion: 78 Resp: 20325





#35

Methylcyclohexane

Concen: 0.968 ug/L

RT: 6.124 min Scan# 1580

Delta R.T. 0.003 min

Lab File: VV028156.D

Acq: 28 Sep 2022 14:00

Instrument :

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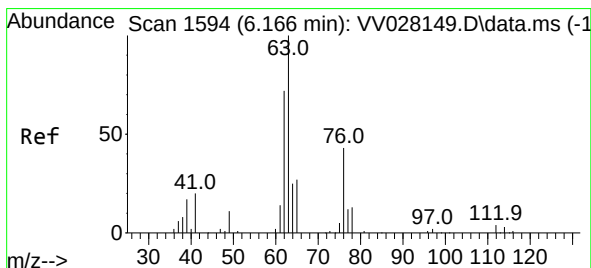
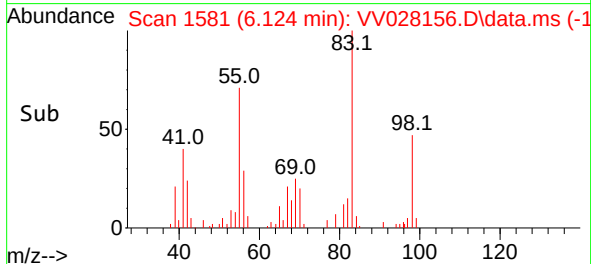
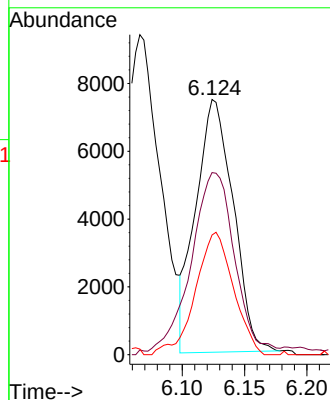
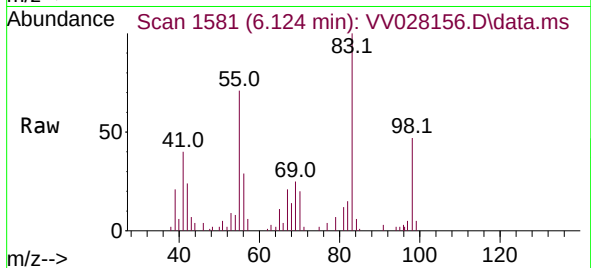
Tgt Ion: 83 Resp: 15607

Ion Ratio Lower Upper

83 100

55 84.6 64.7 97.1

98 49.0 39.5 59.3



#37

1,2-Dichloropropane

Concen: 0.603 ug/L

RT: 6.069 min Scan# 1564

Delta R.T. -0.096 min

Lab File: VV028156.D

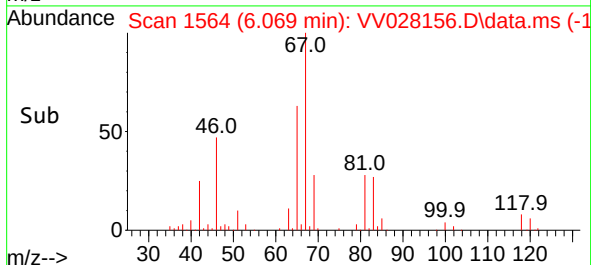
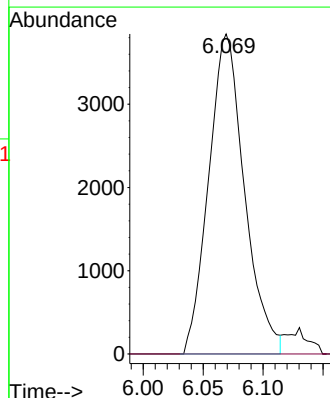
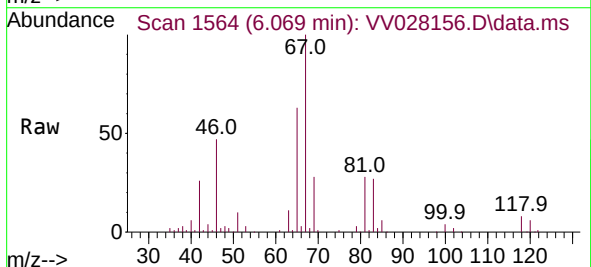
Acq: 28 Sep 2022 14:00

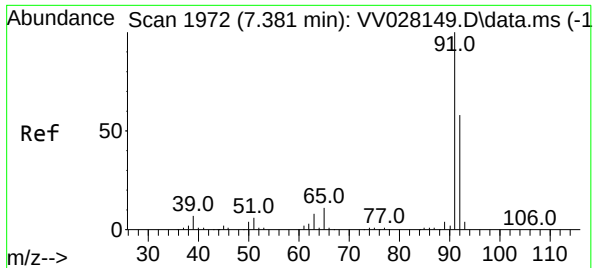
Tgt Ion: 63 Resp: 7983

Ion Ratio Lower Upper

63 100

112 0.6 3.5 5.3

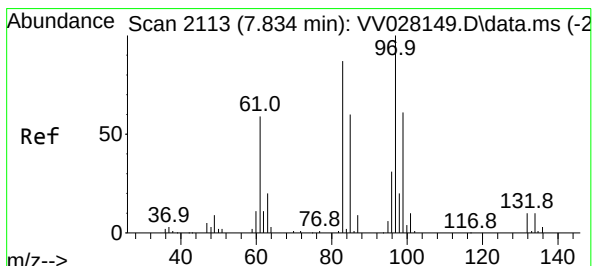
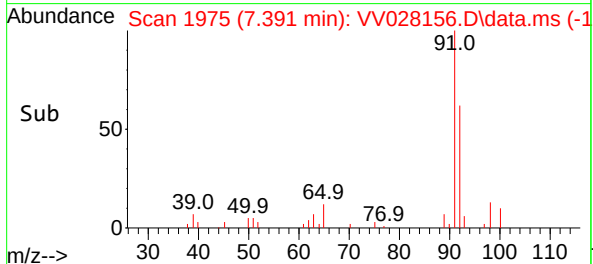
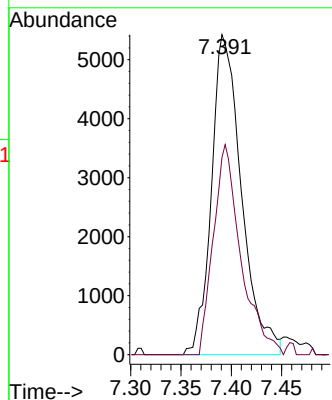
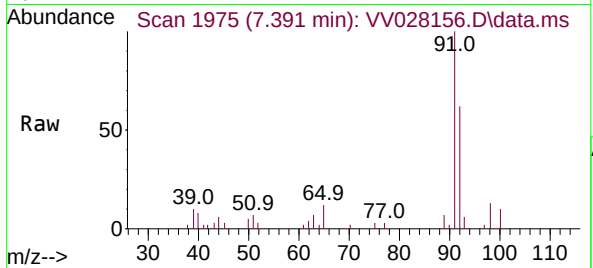




#42
Toluene
Concen: 0.229 ug/L
RT: 7.391 min Scan# 1972
Delta R.T. 0.010 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

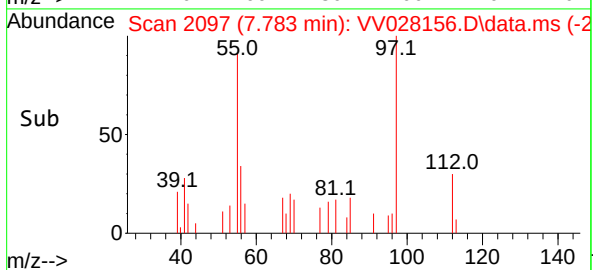
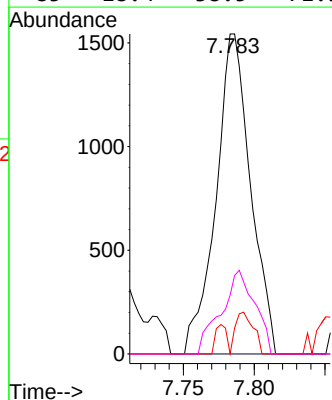
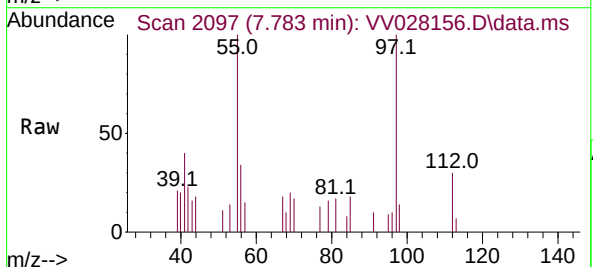
Instrument :
MSVOA_V
ClientSampleId :
CB8P1

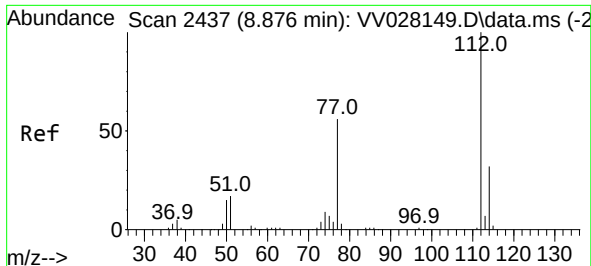
Tgt Ion: 91 Resp: 11272
Ion Ratio Lower Upper
91 100
92 61.6 40.2 74.6



#45
1,1,2-Trichloroethane
Concen: 0.295 ug/L
RT: 7.783 min Scan# 2097
Delta R.T. -0.051 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

Tgt Ion: 97 Resp: 2618
Ion Ratio Lower Upper
97 100
99 0.0 43.2 80.2#
83 0.0 59.1 109.9#
85 18.4 38.5 71.5#

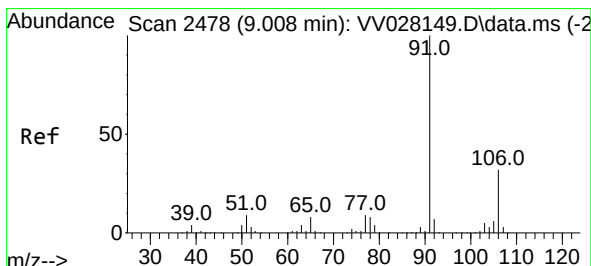
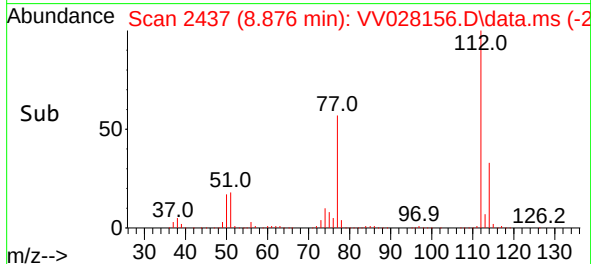
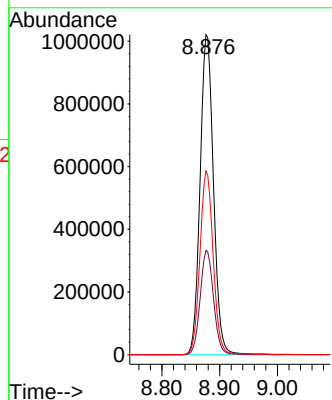
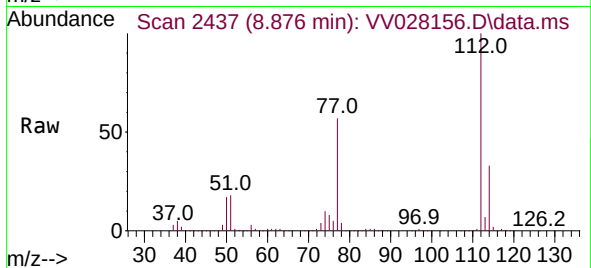




#51
Chlorobenzene
Concen: 49.681 ug/L
RT: 8.876 min Scan# 2437
Delta R.T. 0.000 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

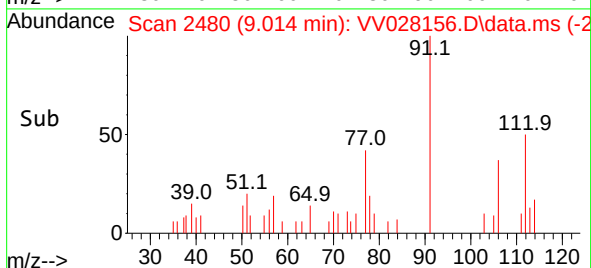
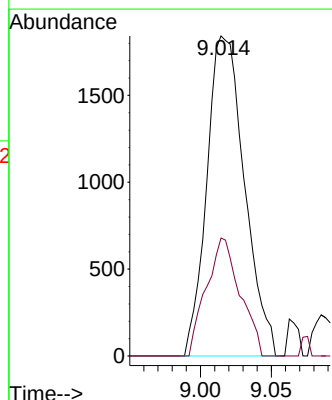
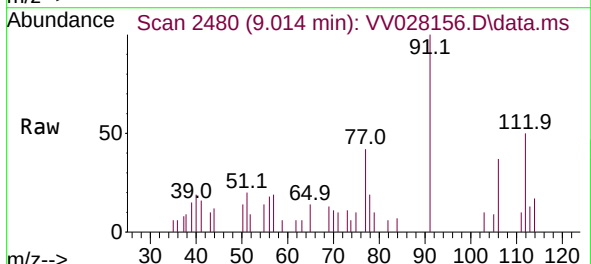
Instrument :
MSVOA_V
ClientSampleId :
CB8P1

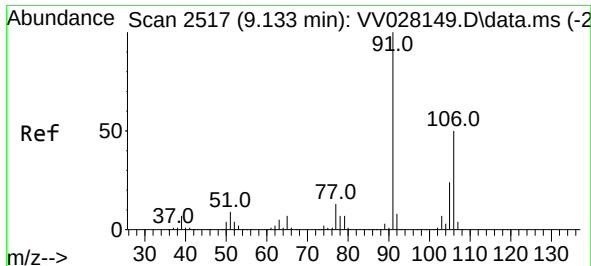
Tgt Ion:112 Resp: 1640935
Ion Ratio Lower Upper
112 100
114 32.6 22.5 41.7
77 57.4 46.1 69.1



#52
Ethylbenzene
Concen: 0.065 ug/L
RT: 9.014 min Scan# 2480
Delta R.T. 0.006 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

Tgt Ion: 91 Resp: 3404
Ion Ratio Lower Upper
91 100
106 36.9 21.5 39.9

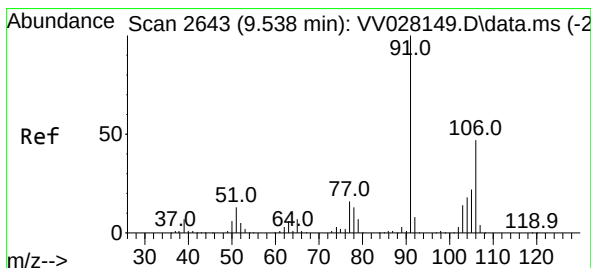
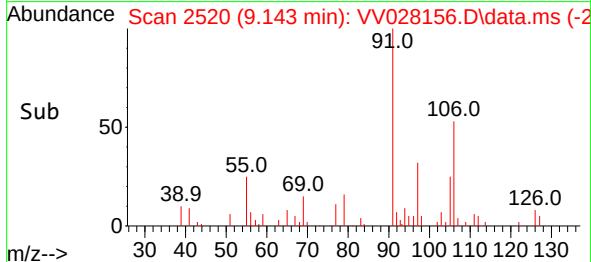
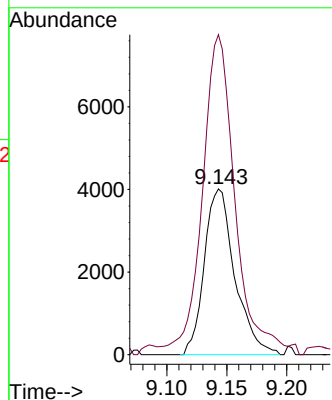
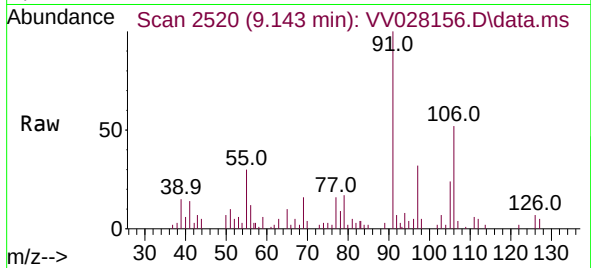




#53
m,p-Xylene
Concen: 0.356 ug/L
RT: 9.143 min Scan# 2517
Delta R.T. 0.010 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

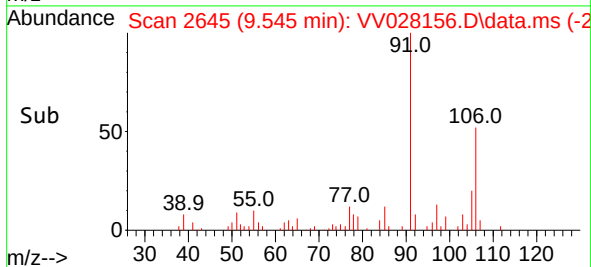
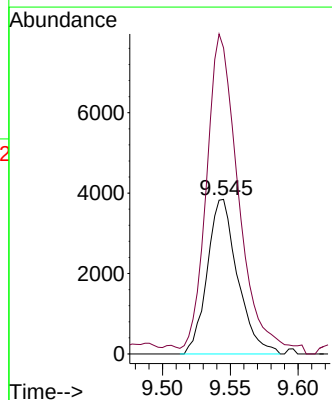
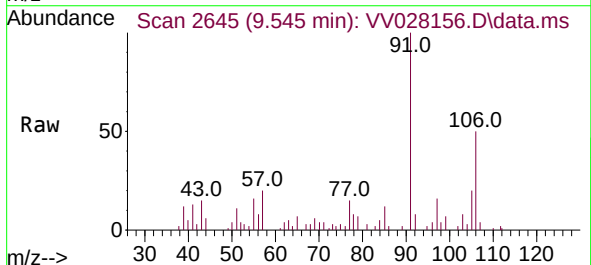
Instrument :
MSVOA_V
ClientSampleId :
CB8P1

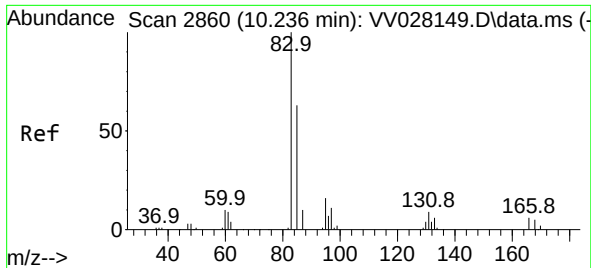
Tgt Ion:106 Resp: 7112
Ion Ratio Lower Upper
106 100
91 193.0 141.9 263.5



#54
o-Xylene
Concen: 0.305 ug/L
RT: 9.545 min Scan# 2645
Delta R.T. 0.006 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

Tgt Ion:106 Resp: 6004
Ion Ratio Lower Upper
106 100
91 198.1 148.1 275.0

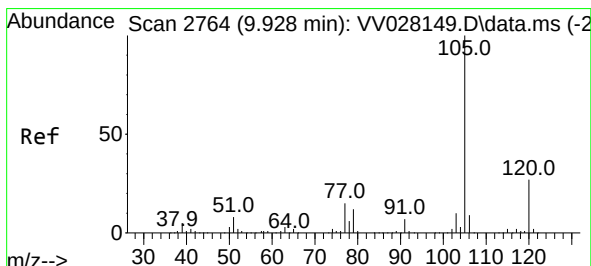
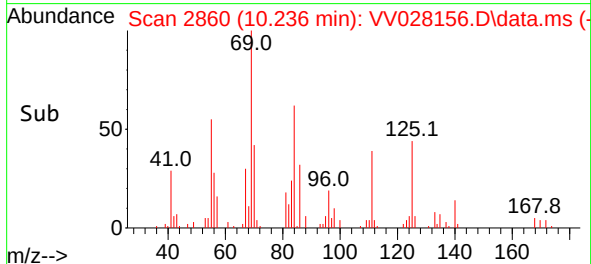
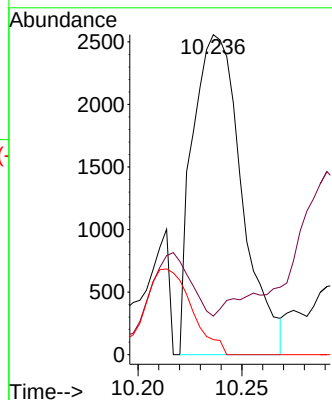
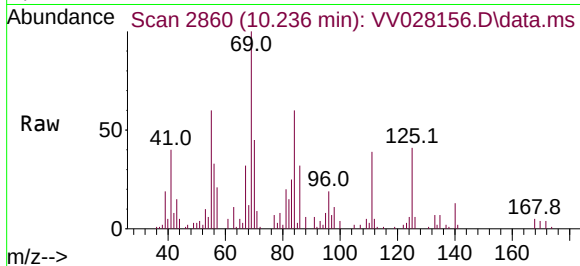




#57
1,1,2,2-Tetrachloroethane
Concen: 0.408 ug/L
RT: 10.236 min Scan# 2860
Delta R.T. 0.000 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

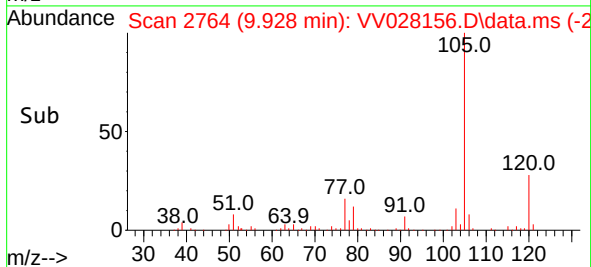
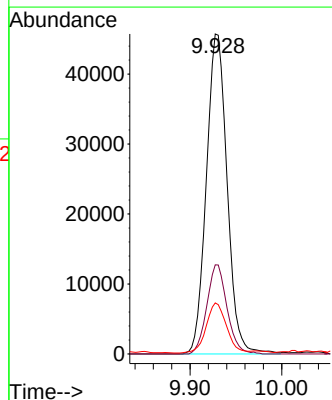
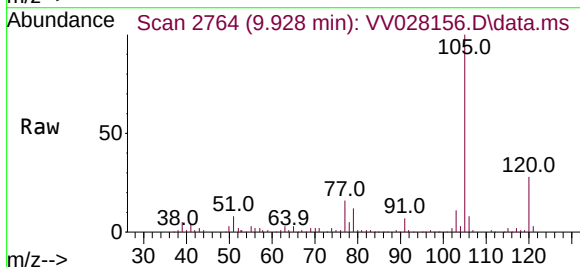
Instrument :
MSVOA_V
ClientSampleId :
CB8P1

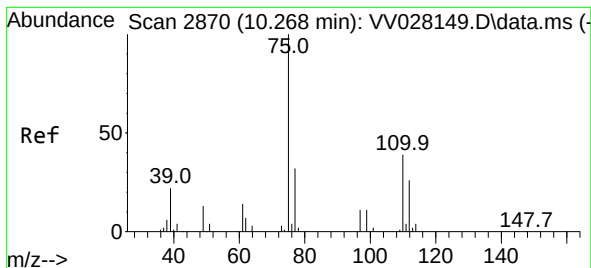
Tgt Ion: 83 Resp: 4216
Ion Ratio Lower Upper
83 100
85 12.0 45.2 84.0#
131 4.7 7.8 11.8#



#60
Isopropylbenzene
Concen: 1.267 ug/L
RT: 9.928 min Scan# 2764
Delta R.T. 0.000 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

Tgt Ion: 105 Resp: 72036
Ion Ratio Lower Upper
105 100
120 27.1 21.4 32.0
77 0.0 12.2 18.4#





#61

1,2,3-Trichloropropane

Concen: 0.908 ug/L

RT: 11.182 min Scan# 3154

Delta R.T. 0.913 min

Lab File: VV028156.D

Acq: 28 Sep 2022 14:00

Instrument :

MSVOA_V

ClientSampleId :

CB8P1

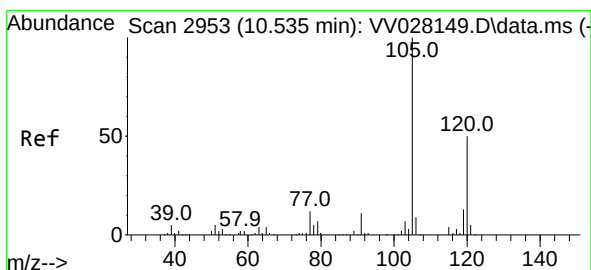
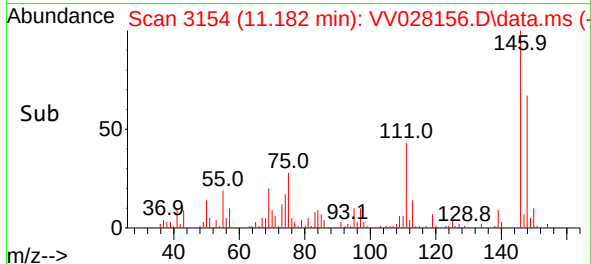
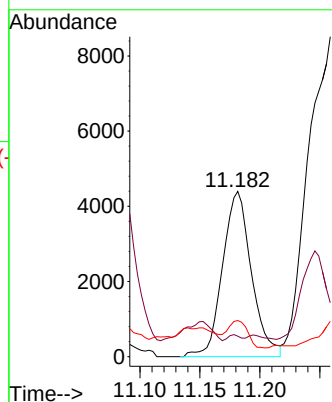
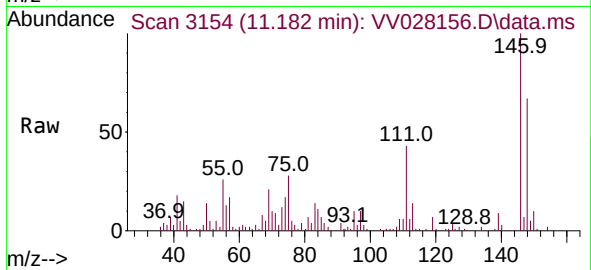
Tgt Ion: 75 Resp: 7379

Ion Ratio Lower Upper

75 100

77 0.0 26.7 40.1#

110 10.9 30.1 45.1#



#62

1,3,5-Trimethylbenzene

Concen: 0.202 ug/L

RT: 10.535 min Scan# 2953

Delta R.T. 0.000 min

Lab File: VV028156.D

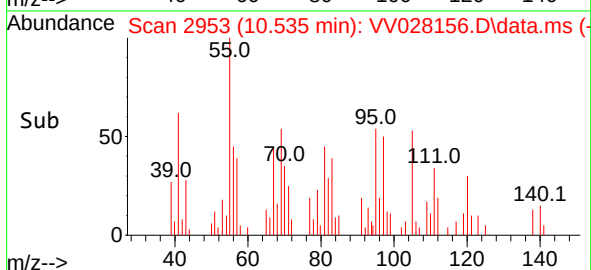
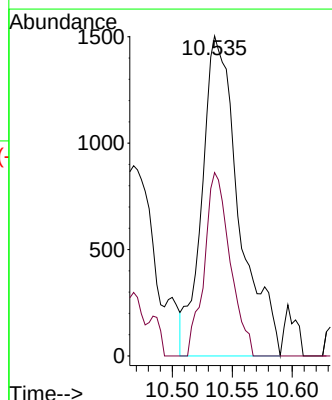
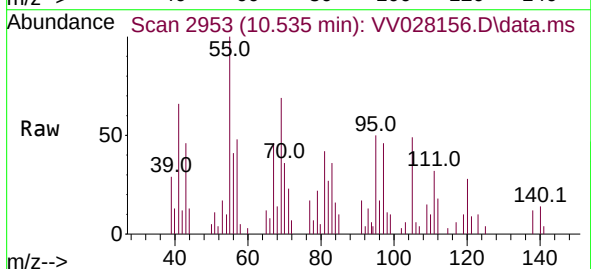
Acq: 28 Sep 2022 14:00

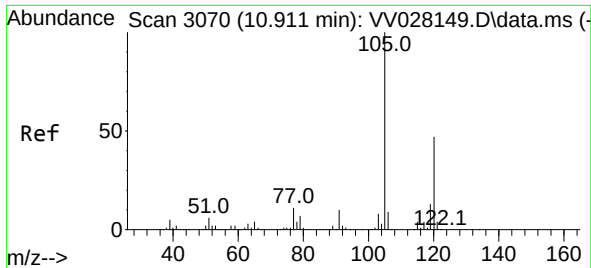
Tgt Ion: 105 Resp: 3229

Ion Ratio Lower Upper

105 100

120 39.8 40.6 61.0#

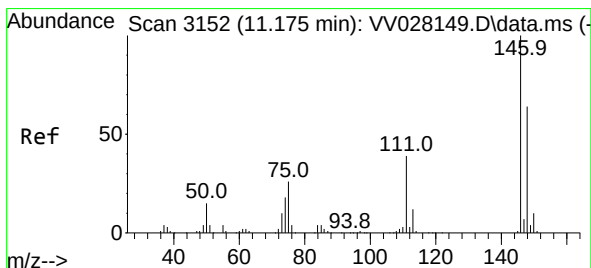
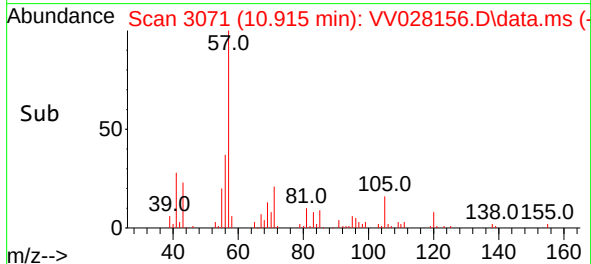
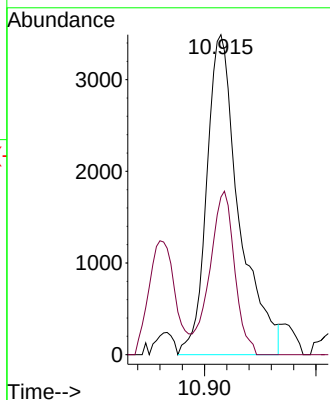
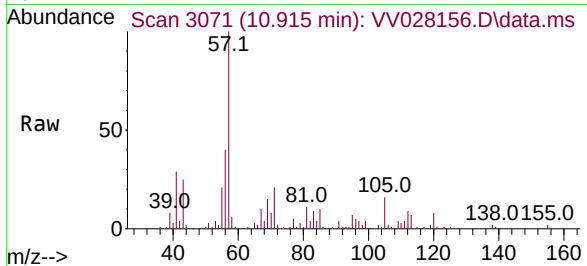




#63
1,2,4-Trimethylbenzene
Concen: 0.157 ug/L
RT: 10.915 min Scan# 3070
Delta R.T. 0.003 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

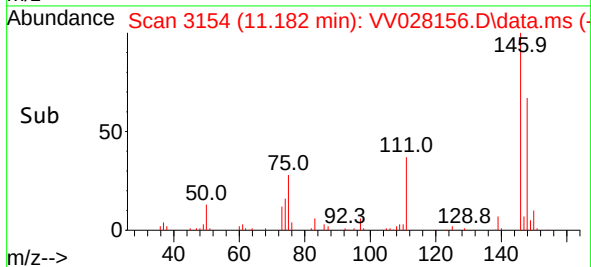
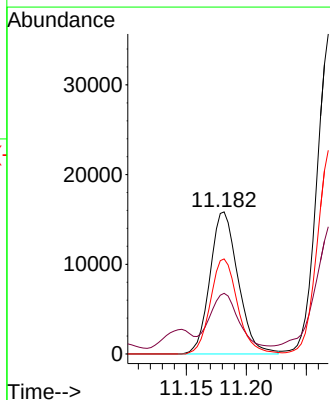
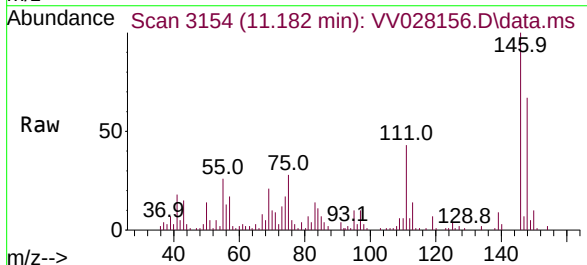
Instrument :
MSVOA_V
ClientSampleId :
CB8P1

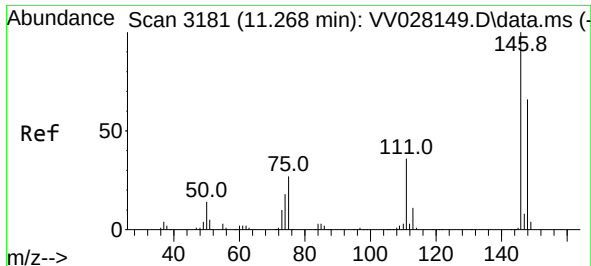
Tgt Ion:105 Resp: 7043
Ion Ratio Lower Upper
105 100
120 39.6 37.8 56.8



#64
1,3-Dichlorobenzene
Concen: 0.911 ug/L
RT: 11.182 min Scan# 3154
Delta R.T. 0.006 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

Tgt Ion:146 Resp: 25787
Ion Ratio Lower Upper
146 100
111 42.7 27.1 50.3
148 66.9 45.7 84.9

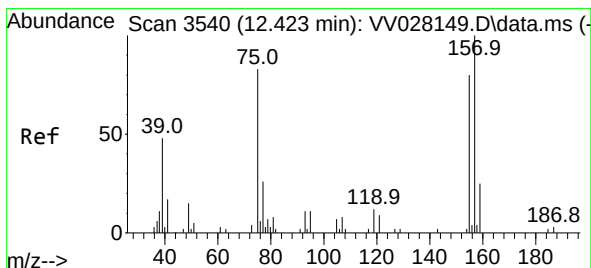
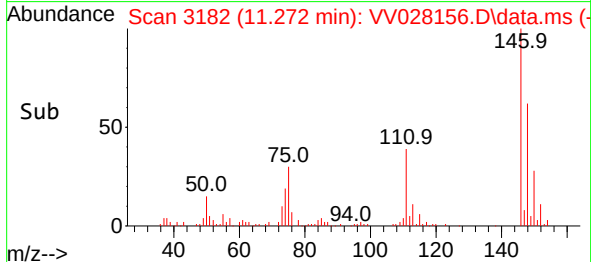
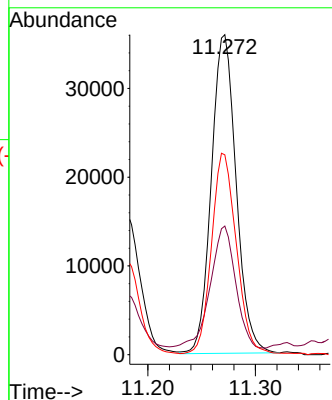
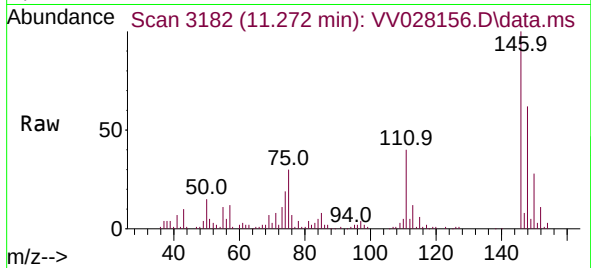




#65
1,4-Dichlorobenzene
Concen: 2.036 ug/L
RT: 11.272 min Scan# 3181
Delta R.T. 0.003 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

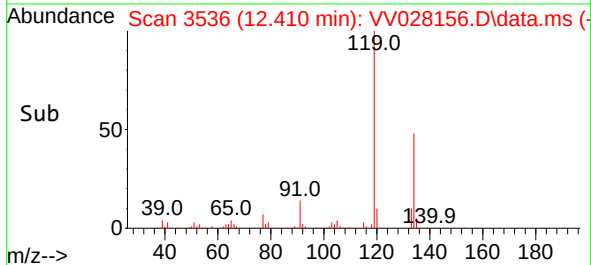
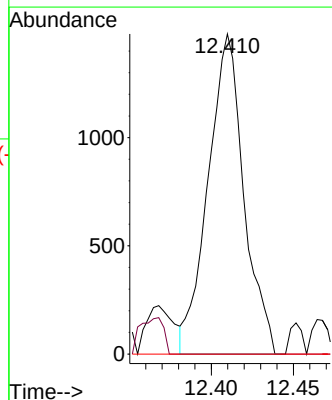
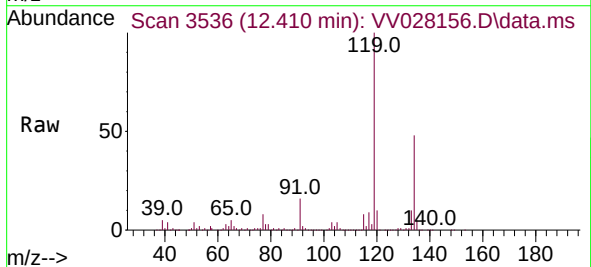
Instrument :
MSVOA_V
ClientSampleId :
CB8P1

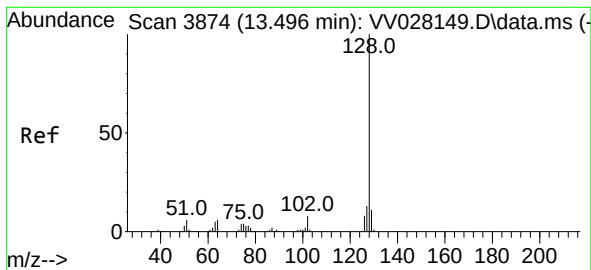
Tgt Ion:146 Resp: 57635
Ion Ratio Lower Upper
146 100
111 40.2 26.2 48.8
148 62.5 45.8 85.2



#68
1,2-Dibromo-3-chloropropane
Concen: 1.254 ug/L
RT: 12.410 min Scan# 3536
Delta R.T. -0.013 min
Lab File: VV028156.D
Acq: 28 Sep 2022 14:00

Tgt Ion: 75 Resp: 2234
Ion Ratio Lower Upper
75 100
155 0.0 73.6 110.4#
157 0.0 90.7 136.1#





#71

Naphthalene

Concen: 0.180 ug/L

RT: 13.509 min Scan# 31

Delta R.T. 0.013 min

Lab File: VV028156.D

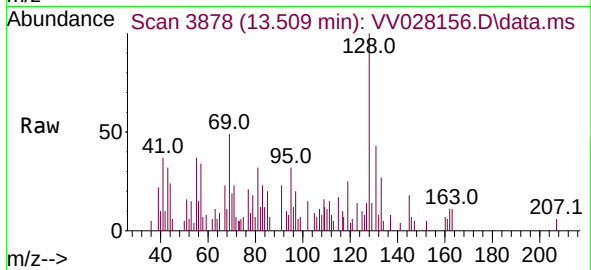
Acq: 28 Sep 2022 14:00

Instrument :

MSVOA_V

ClientSampleId :

CB8P1



Tgt Ion:	128	Resp:	5267
Ion Ratio	Lower	Upper	
128	100		
129	0.0	8.2	12.2#
127	10.8	10.4	15.6

