

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW102022\
 Data File : VW028646.D
 Acq On : 20 Oct 2022 19:48
 Operator : SY/MD
 Sample : N5216-06
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BHA85

Quant Time: Oct 21 01:13:59 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR102022WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Oct 21 00:53:32 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.612	114	166007	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.847	117	158709	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.242	152	77266	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	85863	5.224	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	104.400%
7) Chloroethane-d5	1.568	69	70371	5.447	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	109.000%
11) 1,1-Dichloroethene-d2	2.105	63	121616	4.258	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	85.200%
20) 2-Butanone-d5	3.908	46	106374	34.387	ug/L	-0.05
Spiked Amount	50.000	Range	40 - 130	Recovery	=	68.780%
24) Chloroform-d	4.342	84	119414	4.898	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	98.000%
26) 1,2-Dichloroethane-d4	5.031	65	60311	4.568	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.400%
32) Benzene-d6	5.047	84	252493	3.657	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	73.200%
36) 1,2-Dichloropropane-d6	6.066	67	82328	3.802	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	76.000%
41) Toluene-d8	7.310	98	211431	4.233	ug/L	0.01
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.600%
43) trans-1,3-Dichloroprop...	7.619	79	19419	3.694	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	73.800%
46) 2-Hexanone-d5	8.088	63	112526	51.558	ug/L	-0.02
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.120%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	51159	5.002	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.000%
66) 1,2-Dichlorobenzene-d4	11.615	152	68853	4.958	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.240	50	782	0.049	ug/L	98
5) Vinyl chloride	1.307	62	754	0.048	ug/L #	1
6) Bromomethane	1.523	94	585	0.077	ug/L	80
8) Chloroethane	1.584	64	18325	1.750	ug/L	99
10) 1,1,2-Trichloro-1,2,2-...	2.108	101	1334	0.117	ug/L #	39
12) 1,1-Dichloroethene	2.105	96	1039	0.097	ug/L #	1
14) Carbon disulfide	2.294	76	5044	0.196	ug/L #	89
17) Methyl tert-butyl Ether	2.764	73	27370	0.934	ug/L #	81
27) 1,2-Dichloroethane	5.095	62	46714	2.887	ug/L #	77
30) Cyclohexane	4.670	56	15268	0.510	ug/L	89
33) Benzene	5.092	78	5038375	67.671	ug/L	100
35) Methylcyclohexane	6.127	83	12253	0.454	ug/L	95
37) 1,2-Dichloropropane	6.066	63	9514	0.477	ug/L #	88
42) Toluene	7.384	91	42083	0.683	ug/L	99
51) Chlorobenzene	8.873	112	2714818	75.312	ug/L	98
52) Ethylbenzene	9.008	91	25150	0.395	ug/L	98
53) m,p-Xylene	9.133	106	46898	2.014	ug/L	97
54) o-Xylene	9.535	106	95620	4.139	ug/L	98
60) Isopropylbenzene	9.924	105	502080	7.775	ug/L	100

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

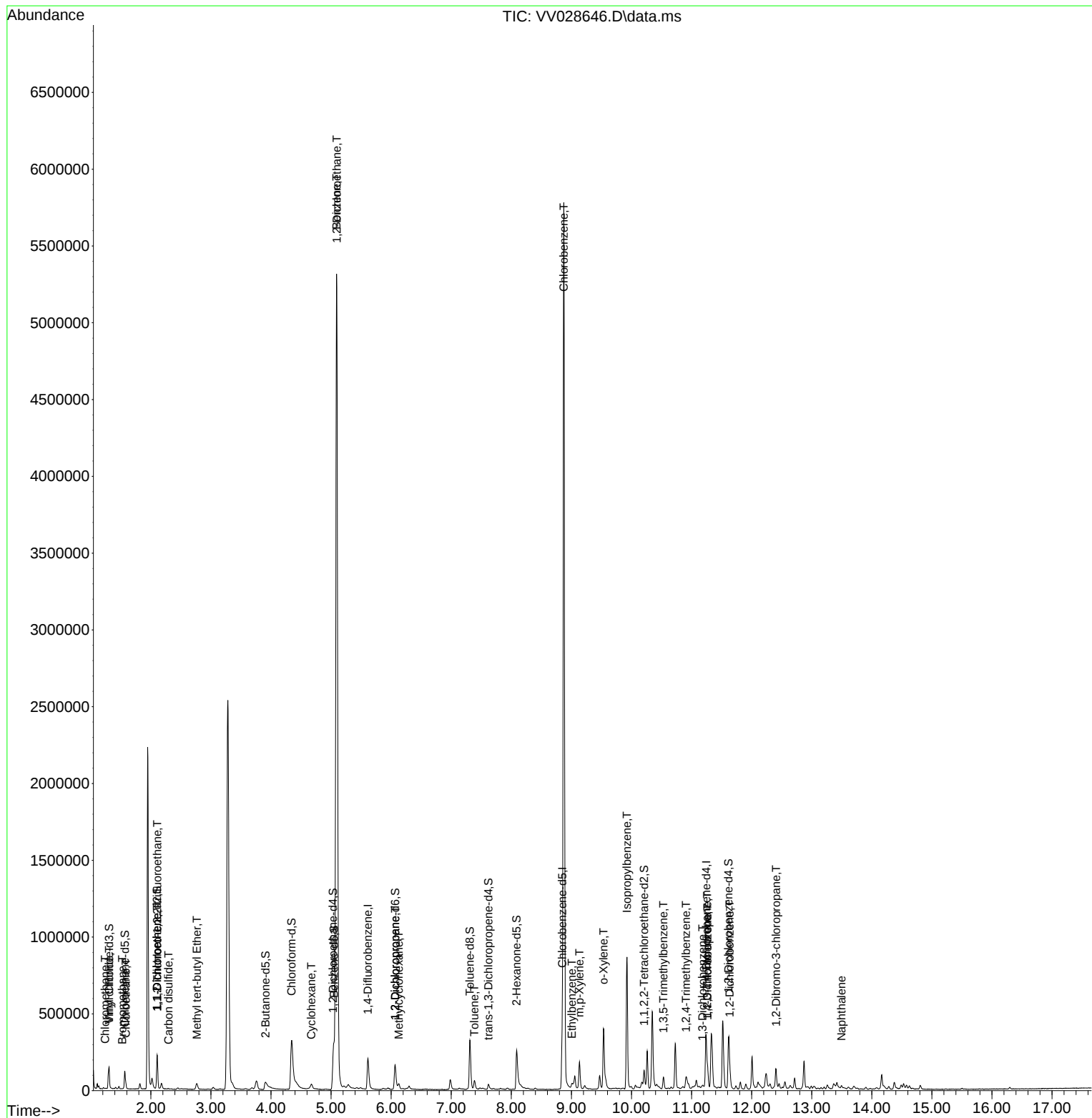
61) 1,2,3-Trichloropropane	11.262	75	26977	3.222	ug/L #	48
62) 1,3,5-Trimethylbenzene	10.532	105	35082	1.891	ug/L	99
63) 1,2,4-Trimethylbenzene	10.908	105	32655	0.654	ug/L	98
64) 1,3-Dichlorobenzene	11.181	146	4797	0.188	ug/L	91
65) 1,4-Dichlorobenzene	11.265	146	46092	1.786	ug/L	99
67) 1,2-Dichlorobenzene	11.635	146	25843	1.087	ug/L	98
68) 1,2-Dibromo-3-chloropr...	12.410	75	485	0.330	ug/L #	9
71) Naphthalene	13.496	128	12288	0.507	ug/L #	94

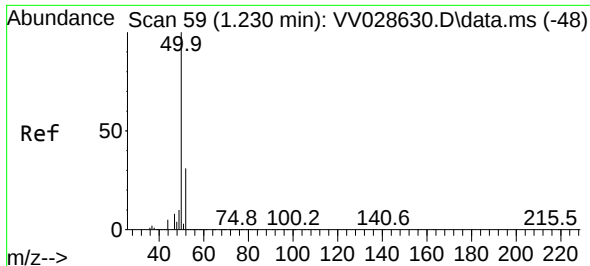
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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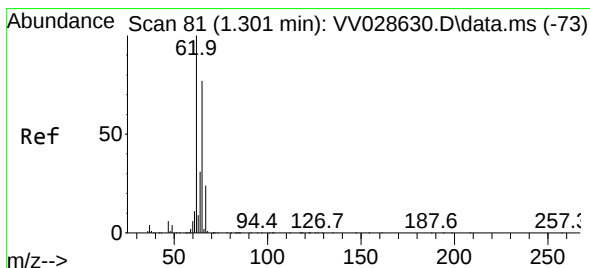
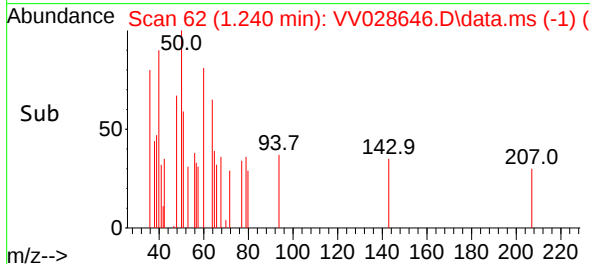
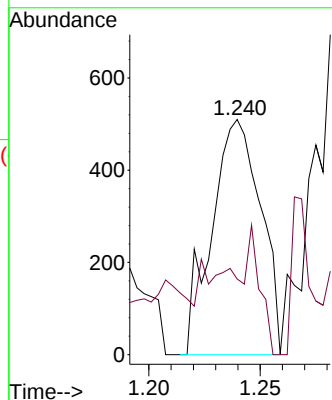
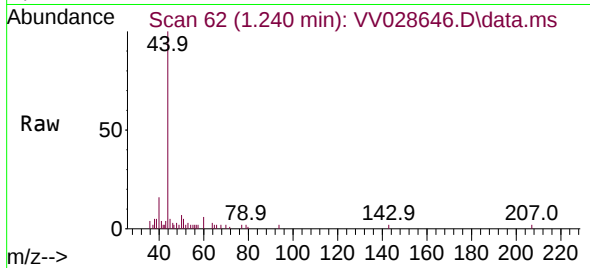




#3
Chloromethane
Concen: 0.049 ug/L
RT: 1.240 min Scan# 61
Delta R.T. 0.010 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

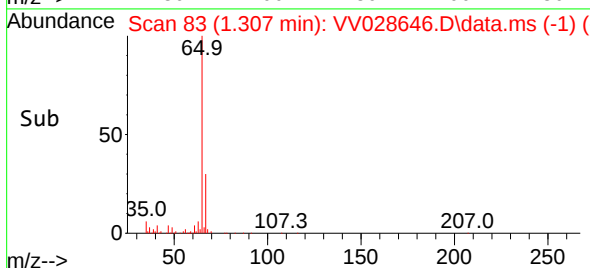
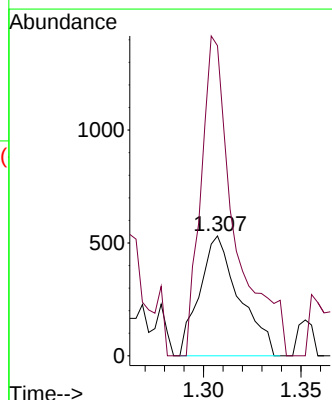
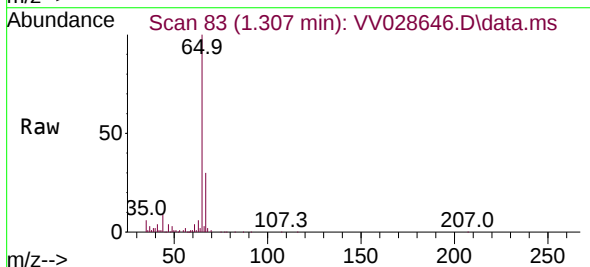
Instrument :
MSVOA_V
ClientSampleId :
BHA85

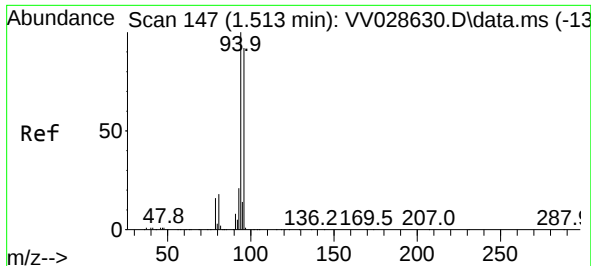
Tgt Ion: 50 Resp: 782
Ion Ratio Lower Upper
50 100
52 32.2 21.8 40.6



#5
Vinyl chloride
Concen: 0.048 ug/L
RT: 1.307 min Scan# 83
Delta R.T. 0.006 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

Tgt Ion: 62 Resp: 754
Ion Ratio Lower Upper
62 100
64 258.8 22.0 41.0#

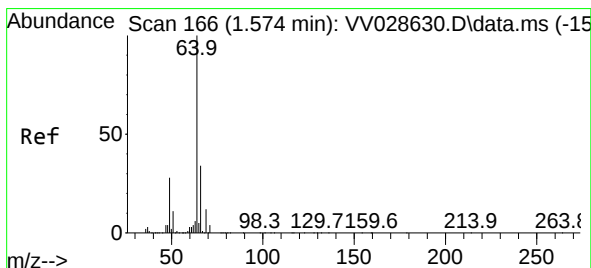
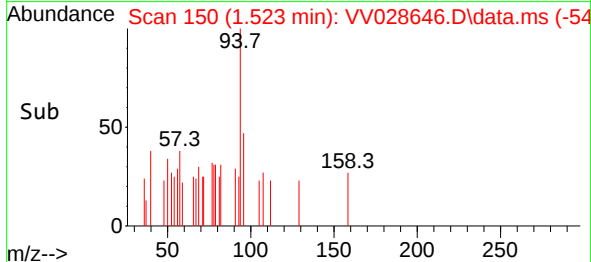
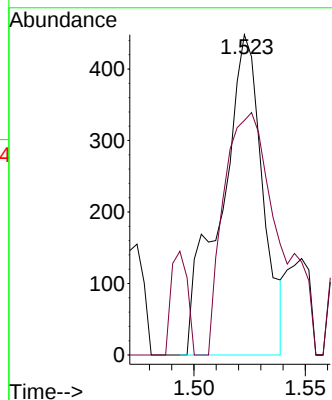
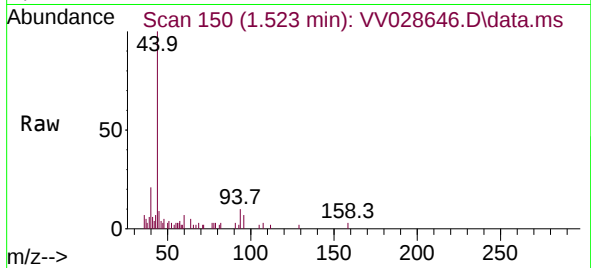




#6
Bromomethane
Concen: 0.077 ug/L
RT: 1.523 min Scan# 11
Delta R.T. 0.010 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

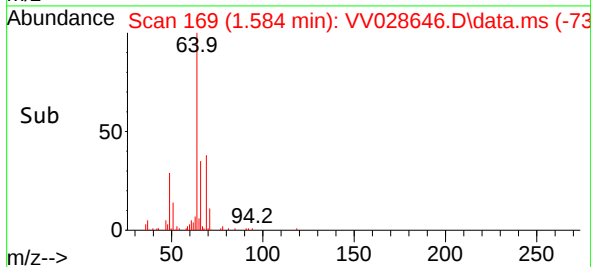
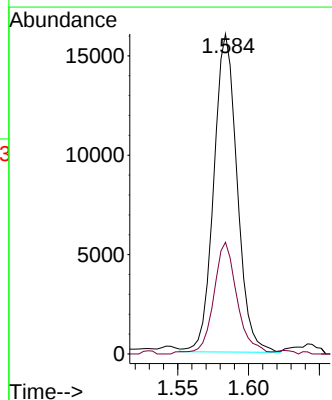
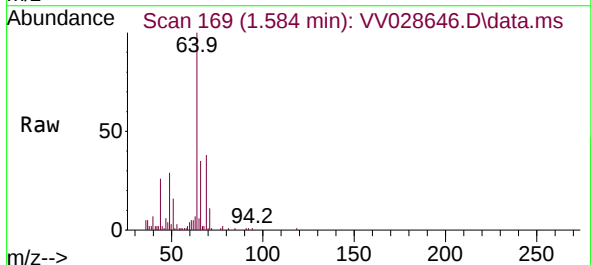
Instrument :
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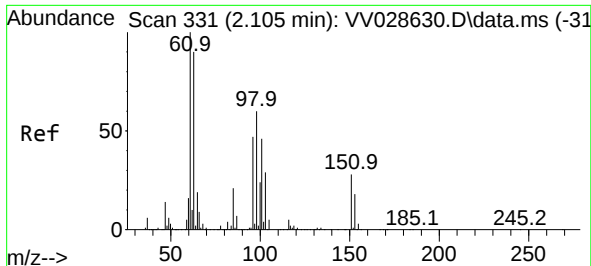
Tgt Ion: 94 Resp: 585
Ion Ratio Lower Upper
94 100
96 73.2 64.3 119.3



#8
Chloroethane
Concen: 1.750 ug/L
RT: 1.584 min Scan# 169
Delta R.T. 0.010 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

Tgt Ion: 64 Resp: 18325
Ion Ratio Lower Upper
64 100
66 34.9 23.9 44.5

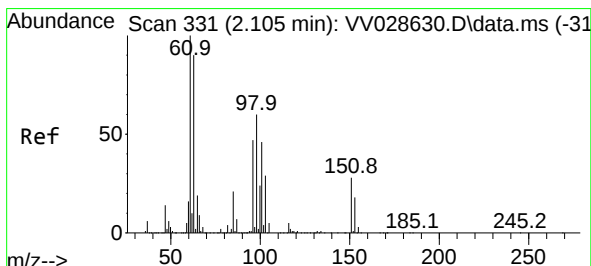
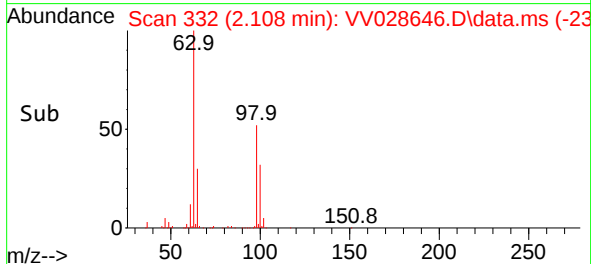
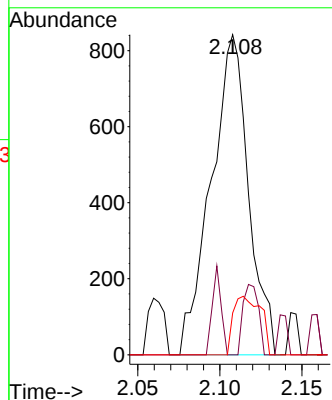
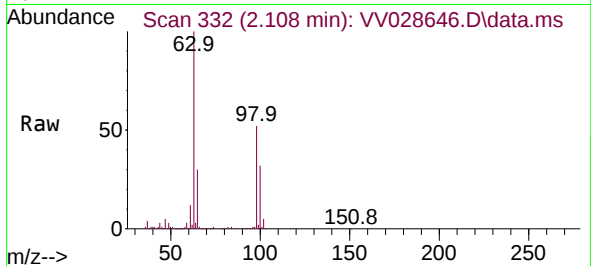




#10
1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.117 ug/L
RT: 2.108 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

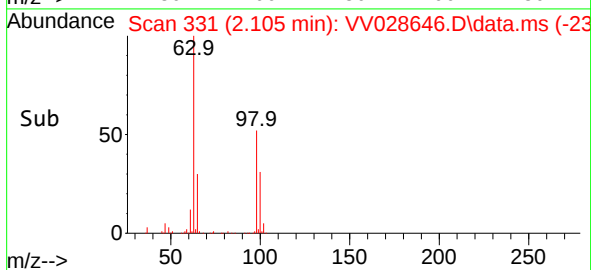
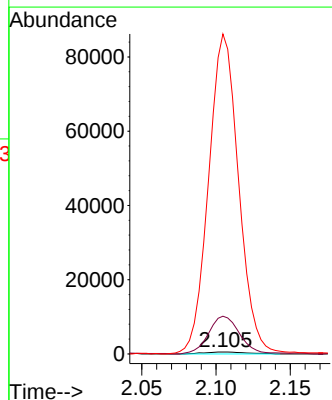
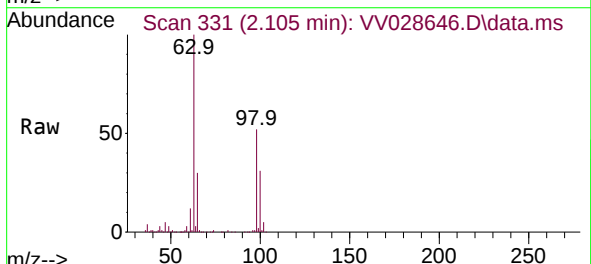
Instrument :
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ClientSampleId :
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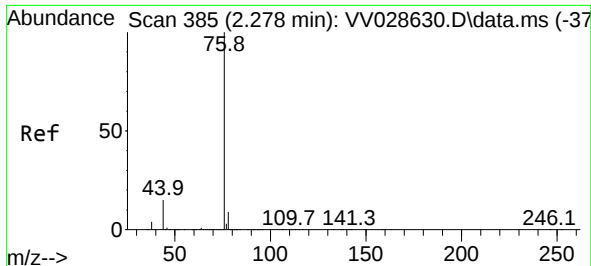
Tgt Ion:101 Resp: 1334
Ion Ratio Lower Upper
101 100
85 9.0 37.0 55.6#
151 13.3 50.2 75.2#



#12
1,1-Dichloroethene
Concen: 0.097 ug/L
RT: 2.105 min Scan# 331
Delta R.T. 0.000 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

Tgt Ion: 96 Resp: 1039
Ion Ratio Lower Upper
96 100
61 1887.9 148.1 275.1#
63 16019.3 133.3 247.7#

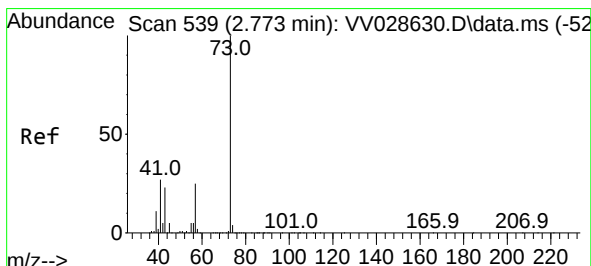
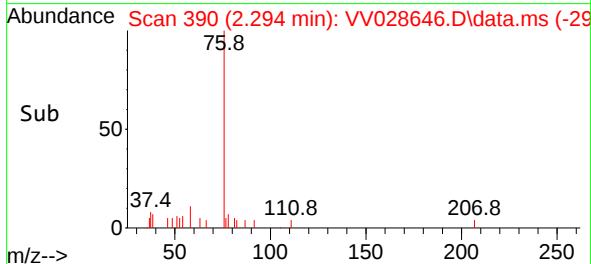
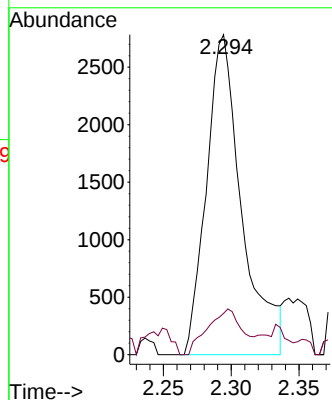
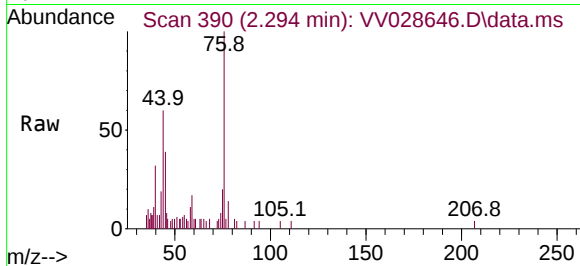




#14
Carbon disulfide
Concen: 0.196 ug/L
RT: 2.294 min Scan# 390
Delta R.T. 0.016 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

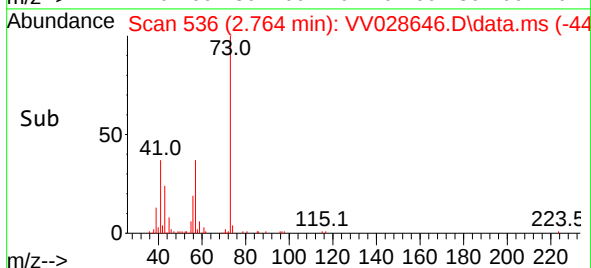
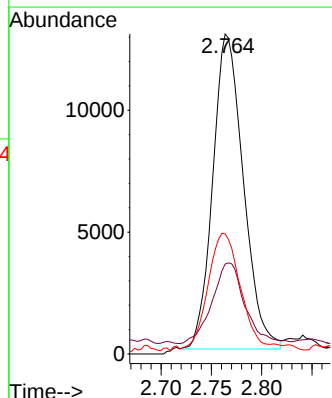
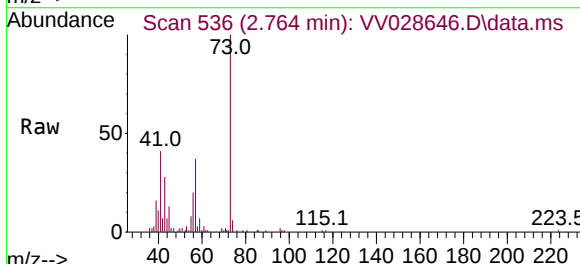
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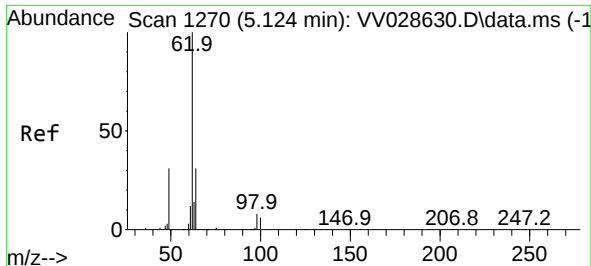
Tgt Ion: 76 Resp: 5044
Ion Ratio Lower Upper
76 100
78 12.9 7.1 10.7#



#17
Methyl tert-butyl Ether
Concen: 0.934 ug/L
RT: 2.764 min Scan# 536
Delta R.T. -0.010 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

Tgt Ion: 73 Resp: 27370
Ion Ratio Lower Upper
73 100
43 27.4 18.0 27.0#
57 38.7 20.0 30.0#

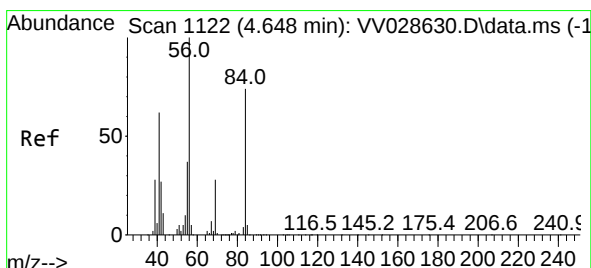
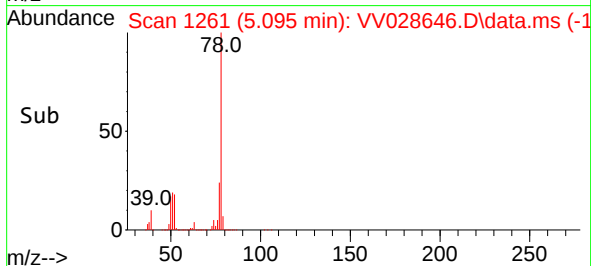
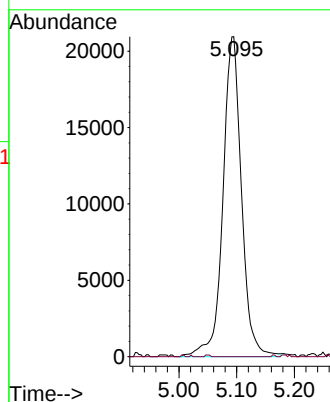
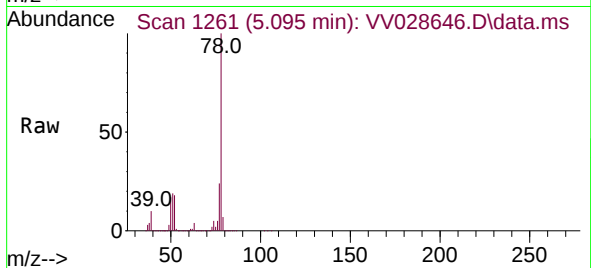




#27
1,2-Dichloroethane
Concen: 2.887 ug/L
RT: 5.095 min Scan# 1129
Delta R.T. -0.029 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

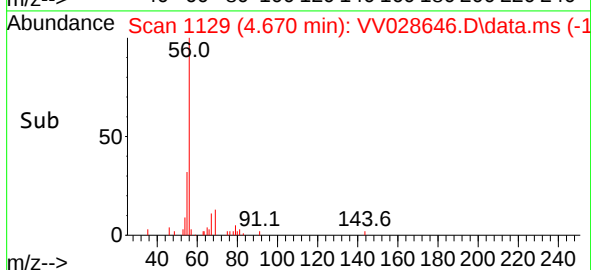
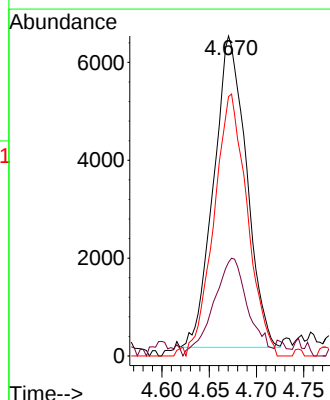
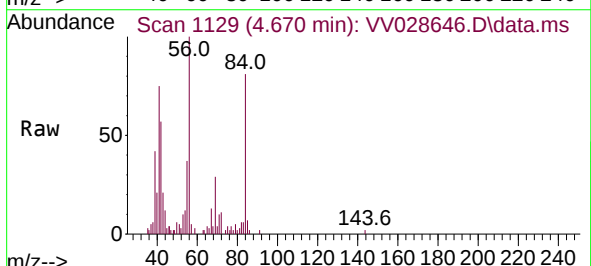
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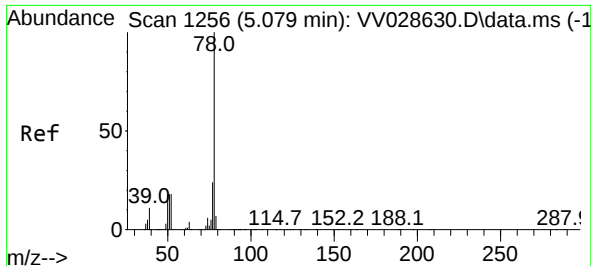
Tgt Ion: 62 Resp: 46714
Ion Ratio Lower Upper
62 100
98 0.0 6.6 9.8#



#30
Cyclohexane
Concen: 0.510 ug/L
RT: 4.670 min Scan# 1129
Delta R.T. 0.023 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

Tgt Ion: 56 Resp: 15268
Ion Ratio Lower Upper
56 100
69 33.3 22.6 34.0
84 85.7 60.4 90.6

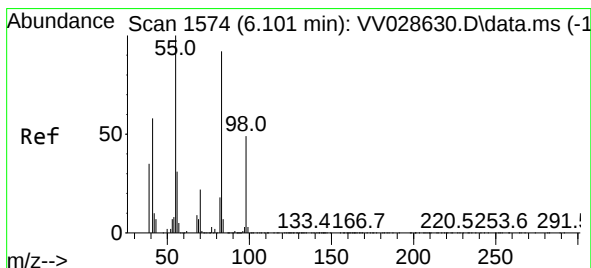
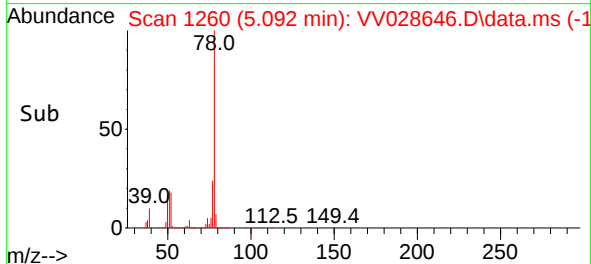
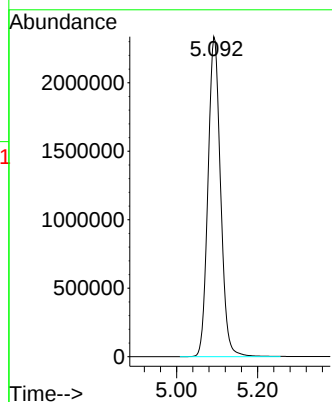
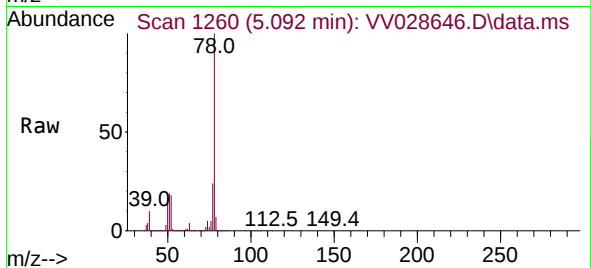




#33
Benzene
Concen: 67.671 ug/L
RT: 5.092 min Scan# 11
Delta R.T. 0.013 min
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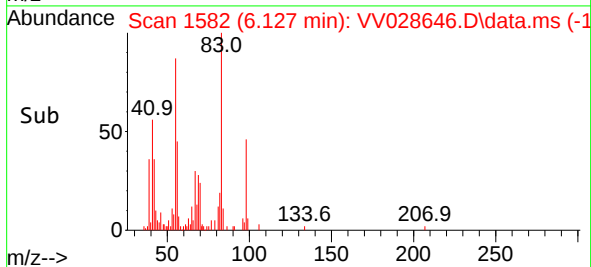
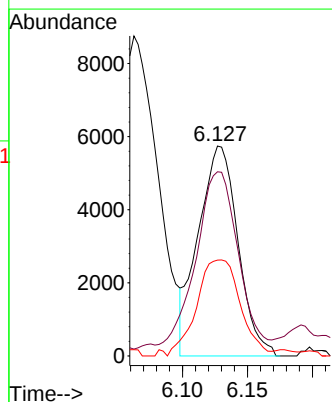
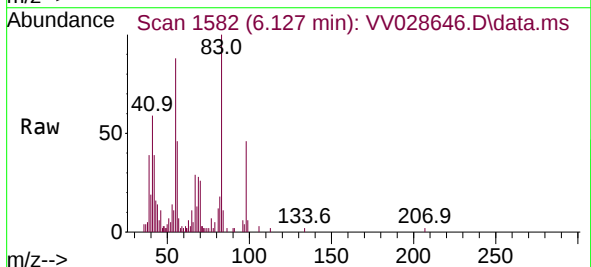
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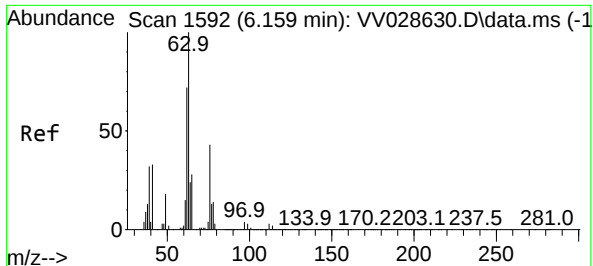
Tgt Ion: 78 Resp: 5038375



#35
Methylcyclohexane
Concen: 0.454 ug/L
RT: 6.127 min Scan# 1582
Delta R.T. 0.026 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

Tgt Ion: 83 Resp: 12253
Ion Ratio Lower Upper
83 100
55 90.1 70.0 105.0
98 49.9 35.6 53.4





#37

1,2-Dichloropropane

Concen: 0.477 ug/L

RT: 6.066 min Scan# 1

Delta R.T. -0.093 min

Lab File: VV028646.D

Acq: 20 Oct 2022 19:48

Instrument :

MSVOA_V

ClientSampleId :

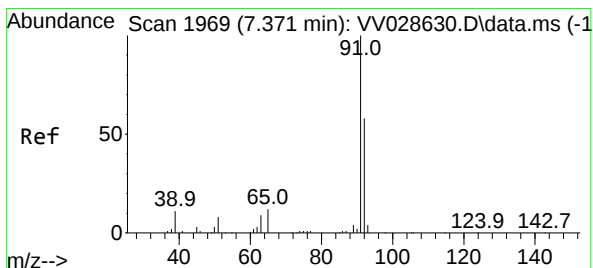
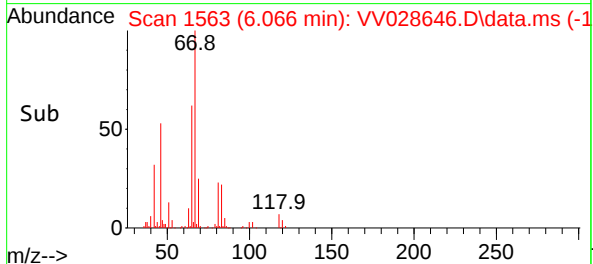
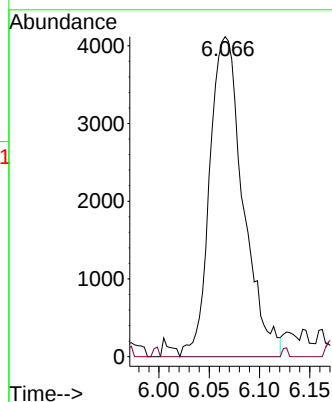
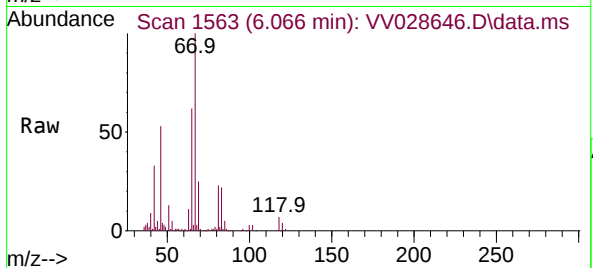
BHA85

Tgt Ion: 63 Resp: 9514

Ion Ratio Lower Upper

63 100

112 0.4 3.4 5.2#



#42

Toluene

Concen: 0.683 ug/L

RT: 7.384 min Scan# 1973

Delta R.T. 0.013 min

Lab File: VV028646.D

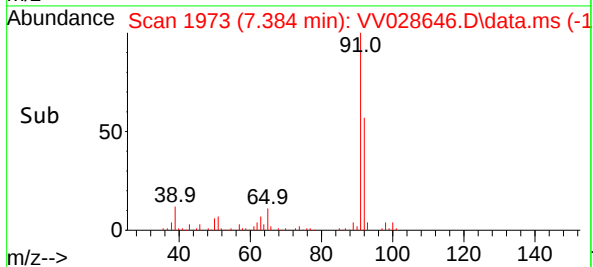
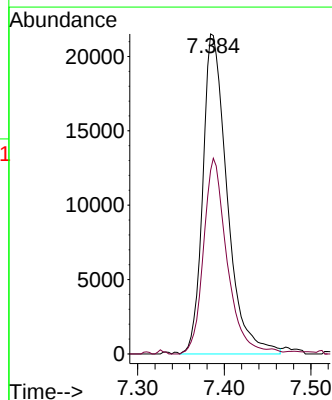
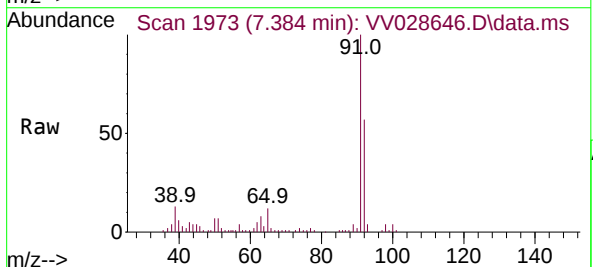
Acq: 20 Oct 2022 19:48

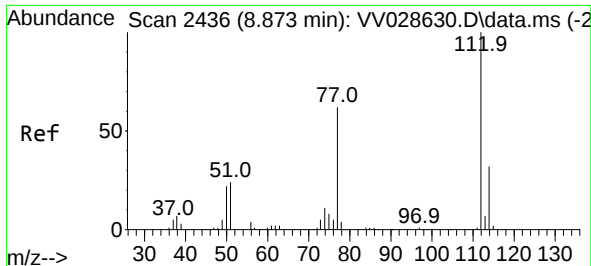
Tgt Ion: 91 Resp: 42083

Ion Ratio Lower Upper

91 100

92 57.4 40.5 75.3

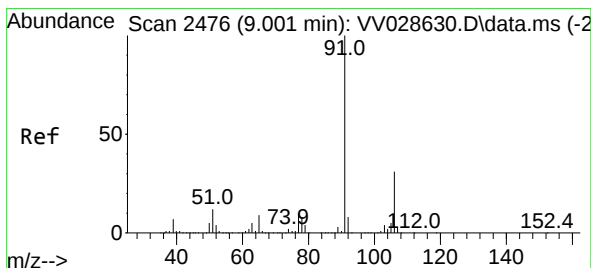
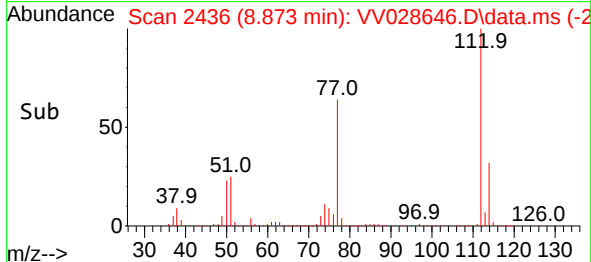
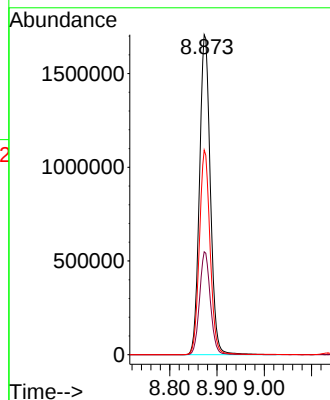
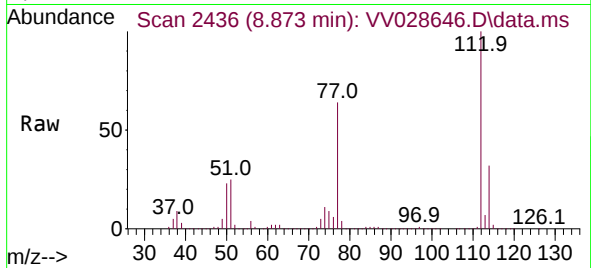




#51
Chlorobenzene
Concen: 75.312 ug/L
RT: 8.873 min Scan# 2436
Delta R.T. 0.000 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

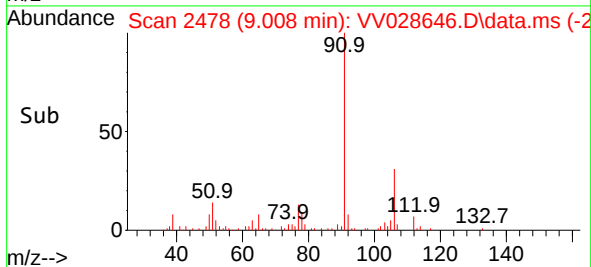
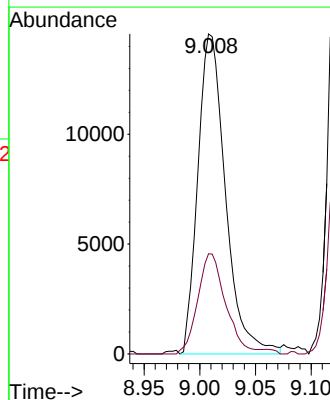
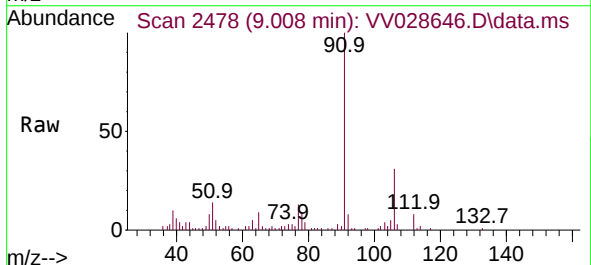
Instrument :
MSVOA_V
ClientSampleId :
BHA85

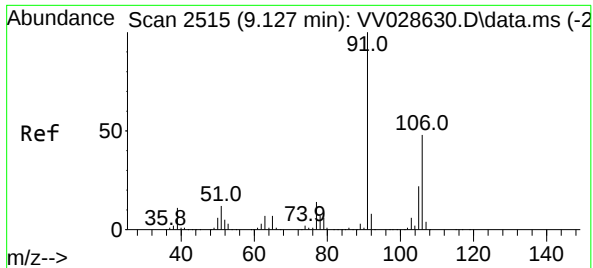
Tgt Ion:112 Resp: 2714818
Ion Ratio Lower Upper
112 100
114 32.1 22.0 41.0
77 63.9 50.0 75.0



#52
Ethylbenzene
Concen: 0.395 ug/L
RT: 9.008 min Scan# 2478
Delta R.T. 0.007 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

Tgt Ion: 91 Resp: 25150
Ion Ratio Lower Upper
91 100
106 31.3 21.3 39.6

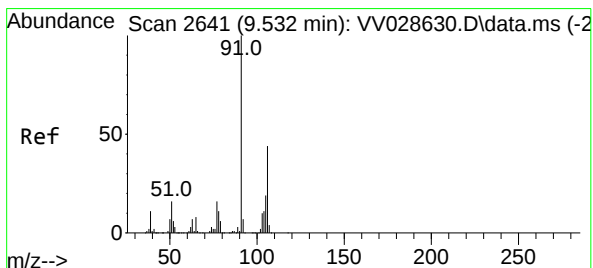
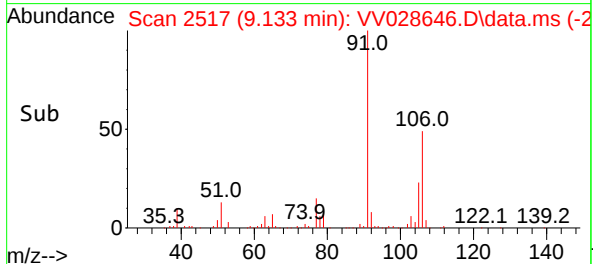
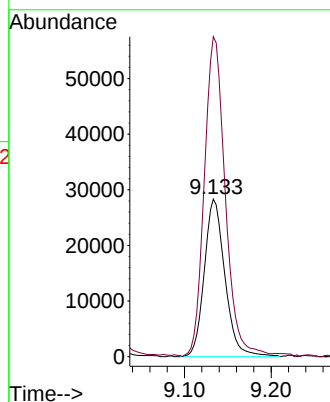
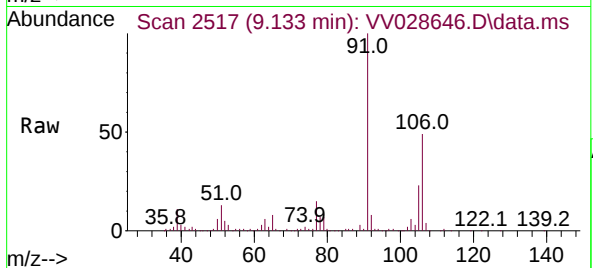




#53
m,p-Xylene
Concen: 2.014 ug/L
RT: 9.133 min Scan# 2517
Delta R.T. 0.006 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

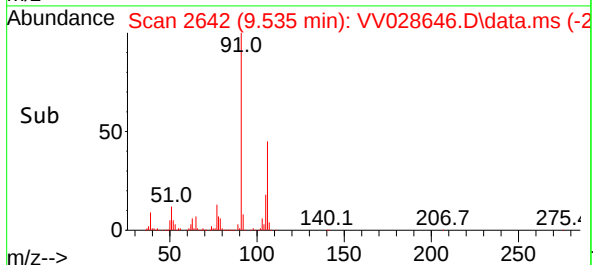
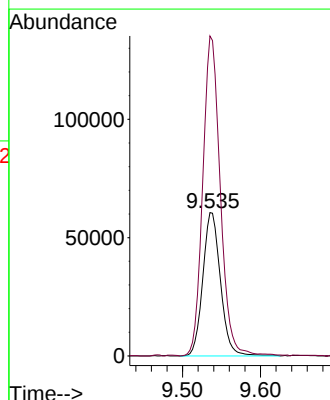
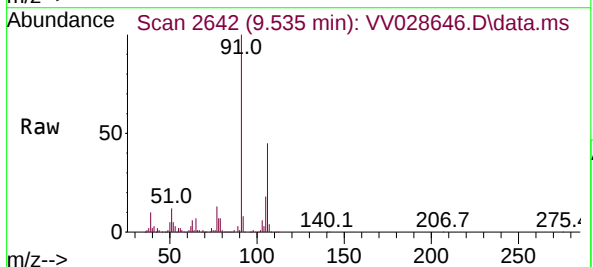
Instrument :
MSVOA_V
ClientSampleId :
BHA85

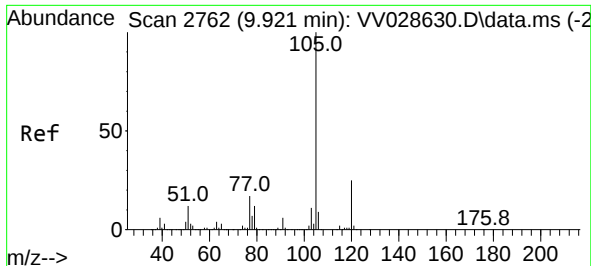
Tgt Ion:106 Resp: 46898
Ion Ratio Lower Upper
106 100
91 203.0 145.5 270.1



#54
o-Xylene
Concen: 4.139 ug/L
RT: 9.535 min Scan# 2642
Delta R.T. 0.003 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

Tgt Ion:106 Resp: 95620
Ion Ratio Lower Upper
106 100
91 223.2 159.0 295.4

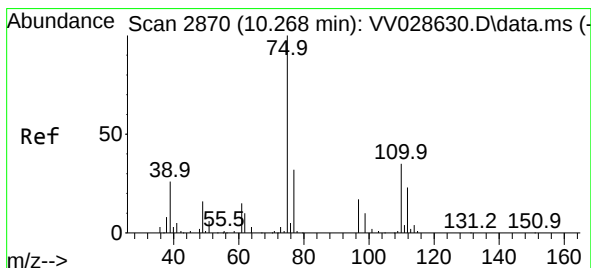
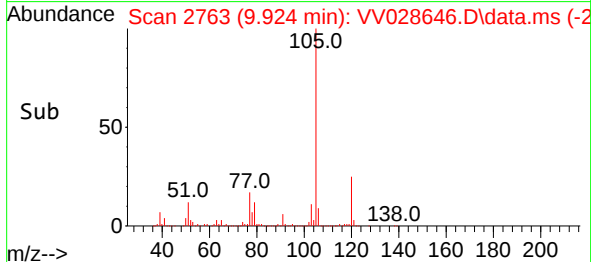
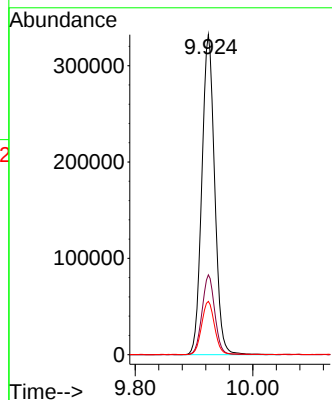
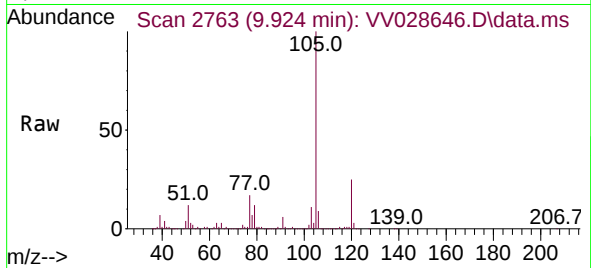




#60
Isopropylbenzene
Concen: 7.775 ug/L
RT: 9.924 min Scan# 21
Delta R.T. 0.003 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

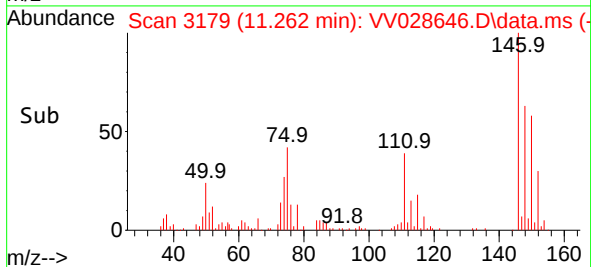
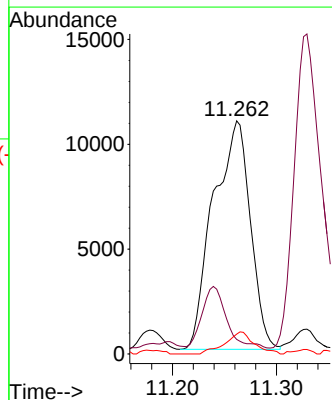
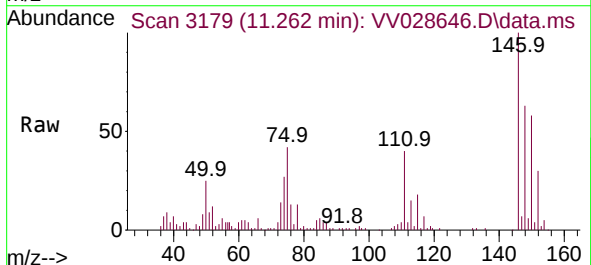
Instrument :
MSVOA_V
ClientSampleId :
BHA85

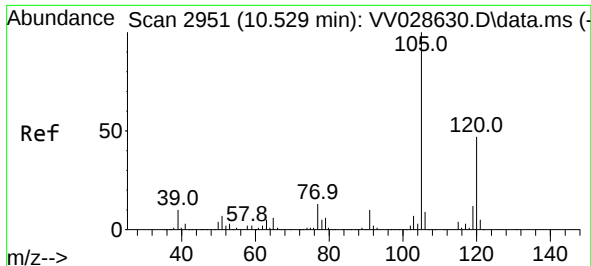
Tgt Ion:105 Resp: 502080
Ion Ratio Lower Upper
105 100
120 24.8 20.1 30.1
77 16.8 13.4 20.0



#61
1,2,3-Trichloropropane
Concen: 3.222 ug/L
RT: 11.262 min Scan# 3179
Delta R.T. 0.994 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

Tgt Ion: 75 Resp: 26977
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
110 7.5 27.9 41.9#





#62

1,3,5-Trimethylbenzene

Concen: 1.891 ug/L

RT: 10.532 min Scan# 2951

Delta R.T. 0.003 min

Lab File: VV028646.D

Acq: 20 Oct 2022 19:48

Instrument :

MSVOA_V

ClientSampleId :

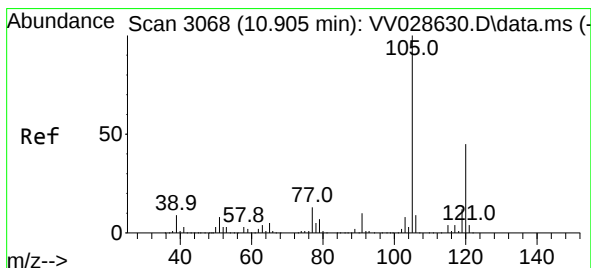
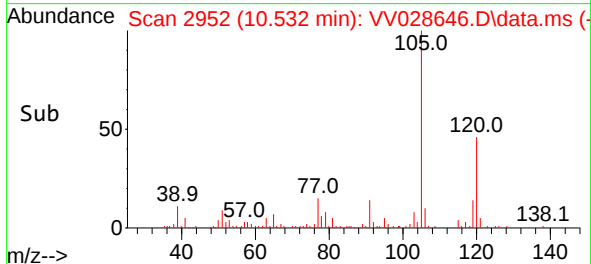
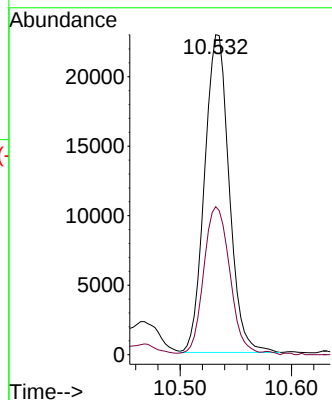
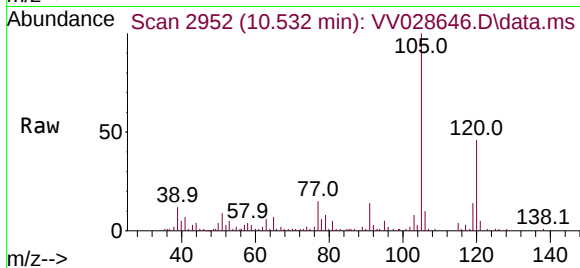
BHA85

Tgt Ion:105 Resp: 35082

Ion Ratio Lower Upper

105 100

120 48.3 38.3 57.5



#63

1,2,4-Trimethylbenzene

Concen: 0.654 ug/L

RT: 10.908 min Scan# 3069

Delta R.T. 0.003 min

Lab File: VV028646.D

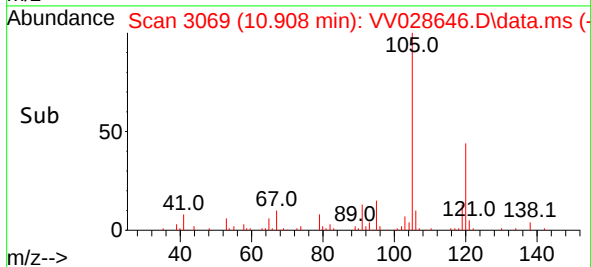
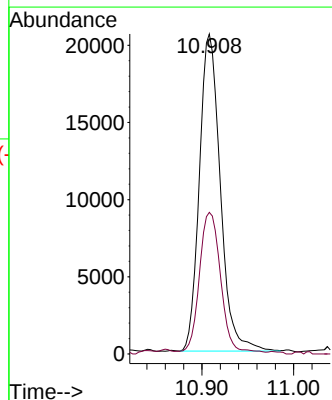
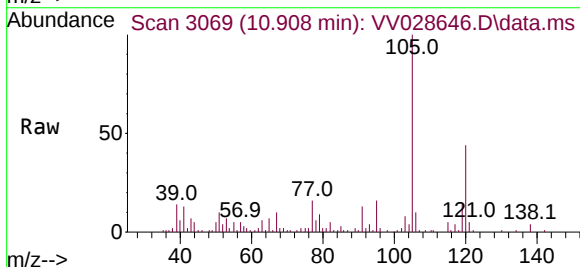
Acq: 20 Oct 2022 19:48

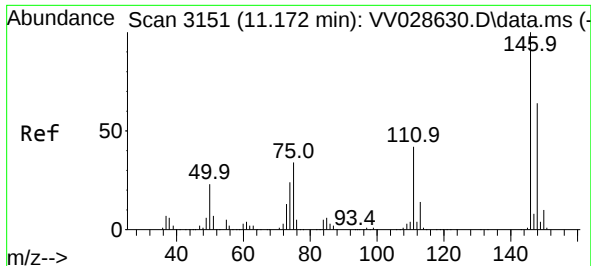
Tgt Ion:105 Resp: 32655

Ion Ratio Lower Upper

105 100

120 43.9 36.2 54.2

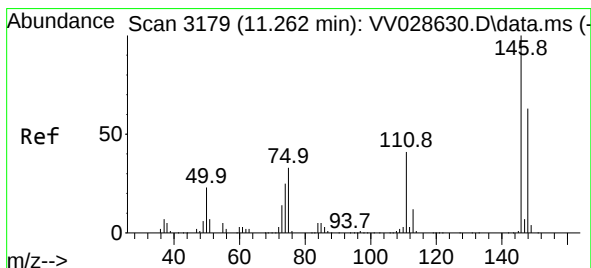
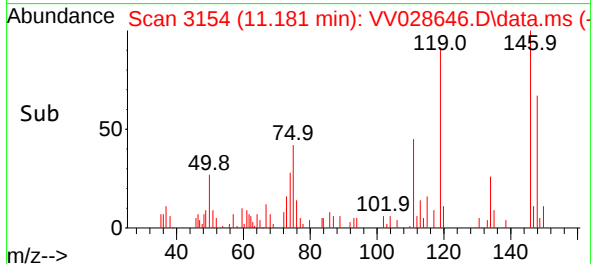
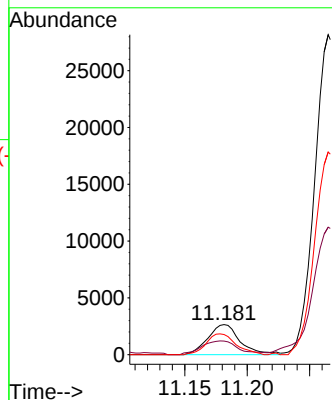
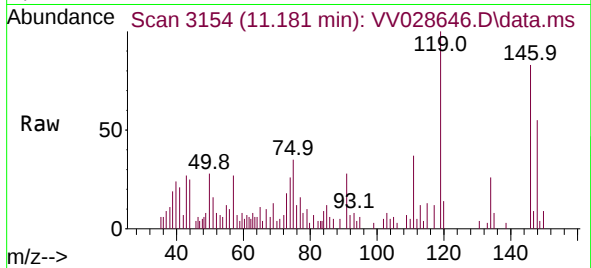




#64
1,3-Dichlorobenzene
Concen: 0.188 ug/L
RT: 11.181 min Scan# 3151
Delta R.T. 0.010 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

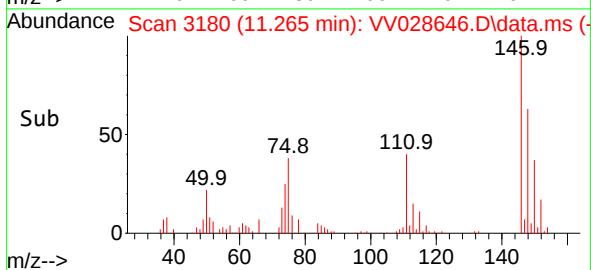
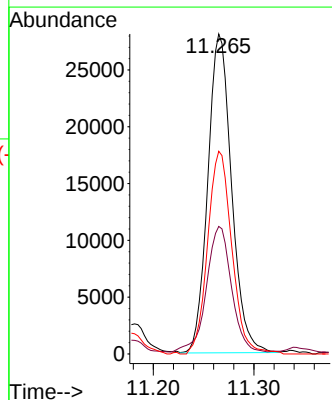
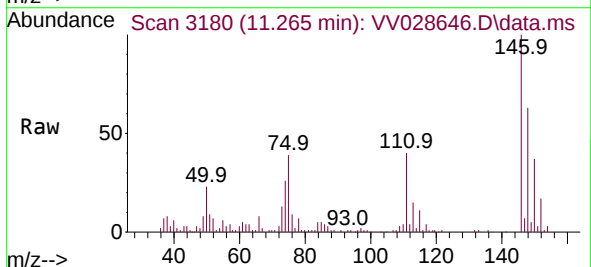
Instrument :
MSVOA_V
ClientSampleId :
BHA85

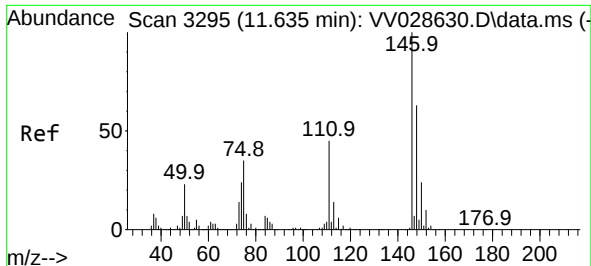
Tgt Ion:146 Resp: 4797
Ion Ratio Lower Upper
146 100
111 45.4 29.0 53.9
148 71.9 44.5 82.7



#65
1,4-Dichlorobenzene
Concen: 1.786 ug/L
RT: 11.265 min Scan# 3180
Delta R.T. 0.003 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

Tgt Ion:146 Resp: 46092
Ion Ratio Lower Upper
146 100
111 39.9 28.6 53.2
148 63.4 44.3 82.3

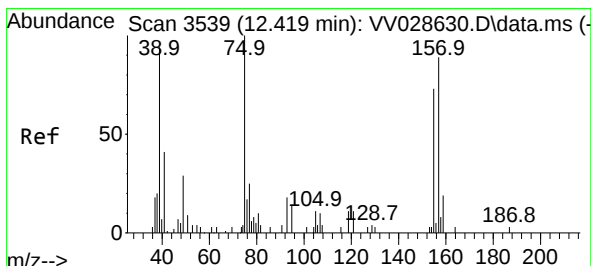
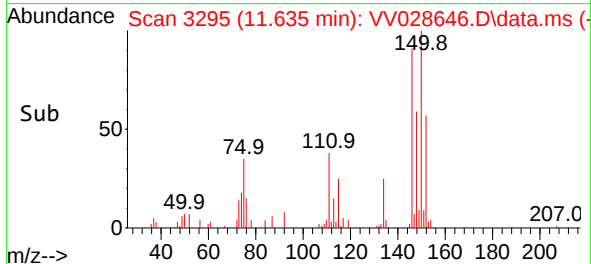
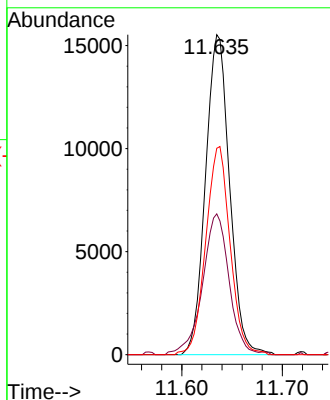
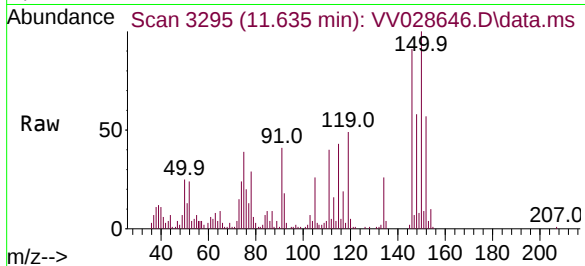




#67
1,2-Dichlorobenzene
Concen: 1.087 ug/L
RT: 11.635 min Scan# 31
Delta R.T. 0.000 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

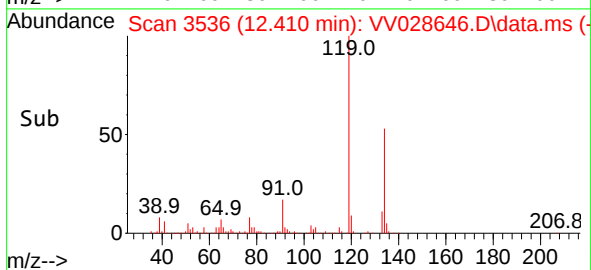
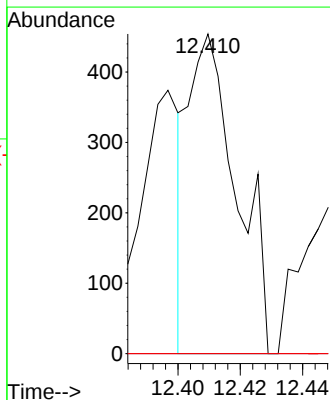
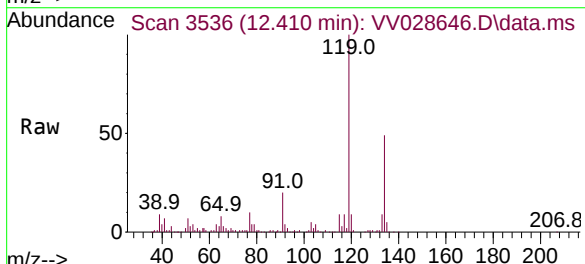
Instrument :
MSVOA_V
ClientSampleId :
BHA85

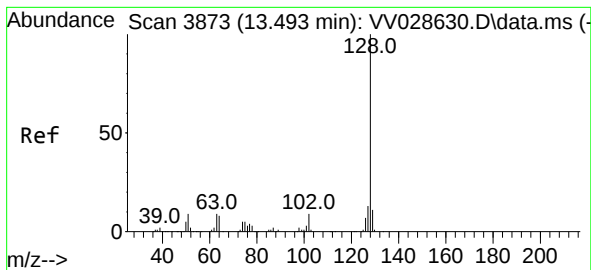
Tgt Ion:146 Resp: 25843
Ion Ratio Lower Upper
146 100
111 44.0 36.2 54.4
148 64.5 50.6 75.8



#68
1,2-Dibromo-3-chloropropane
Concen: 0.330 ug/L
RT: 12.410 min Scan# 3536
Delta R.T. -0.010 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

Tgt Ion: 75 Resp: 485
Ion Ratio Lower Upper
75 100
155 0.0 58.2 87.2#
157 0.0 71.5 107.3#





#71
Naphthalene
Concen: 0.507 ug/L
RT: 13.496 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV028646.D
Acq: 20 Oct 2022 19:48

Instrument :
MSVOA_V
ClientSampleId :
BHA85

Tgt Ion:128 Resp: 12288
Ion Ratio Lower Upper
128 100
129 13.8 8.9 13.3#
127 14.7 10.2 15.4

