

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW102722\
 Data File : VW028737.D
 Acq On : 27 Oct 2022 23:51
 Operator : SY/MD
 Sample : N5232-16
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BHAB9

Quant Time: Oct 28 05:37:40 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR102522WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Oct 28 05:21:35 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.612	114	201451	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.847	117	198407	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.242	152	96313	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.301	65	47247	3.372	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	67.400%
7) Chloroethane-d5	1.564	69	47520	4.011	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	80.200%
11) 1,1-Dichloroethene-d2	2.101	63	74929	2.765	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	55.200%#
20) 2-Butanone-d5	3.899	46	113559	35.546	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	71.100%
24) Chloroform-d	4.342	84	98479	4.048	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.000%
26) 1,2-Dichloroethane-d4	5.030	65	52833	4.280	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.600%
32) Benzene-d6	5.047	84	189482	3.571	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	71.400%
36) 1,2-Dichloropropane-d6	6.066	67	69184	4.119	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	82.400%
41) Toluene-d8	7.310	98	152432	3.682	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	73.600%
43) trans-1,3-Dichloroprop...	7.622	79	16023	3.071	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	61.400%
46) 2-Hexanone-d5	8.088	63	105986	43.633	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.260%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	52747	4.735	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.800%
66) 1,2-Dichlorobenzene-d4	11.615	152	60034	4.519	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.130	85	1043	0.123	ug/L	96
3) Chloromethane	1.236	50	1142	0.072	ug/L #	80
5) Vinyl chloride	1.307	62	854	0.054	ug/L #	1
6) Bromomethane	1.519	94	1047	0.139	ug/L	99
8) Chloroethane	1.580	64	103264	9.637	ug/L	93
13) Acetone	2.182	43	8764	4.622	ug/L	99
14) Carbon disulfide	2.291	76	4160	0.163	ug/L #	93
16) Methylene chloride	2.503	84	3470	0.227	ug/L	79
18) trans-1,2-Dichloroethene	2.764	96	2749	0.247	ug/L	89
19) 1,1-Dichloroethane	3.185	63	2679	0.100	ug/L #	83
27) 1,2-Dichloroethane	5.143	62	1155	0.075	ug/L #	76
30) Cyclohexane	4.670	56	39880	1.613	ug/L	99
33) Benzene	5.092	78	431599	7.278	ug/L	100
35) Methylcyclohexane	6.124	83	35563	1.752	ug/L	97
38) Bromodichloromethane	6.545	83	642	0.035	ug/L #	80
42) Toluene	7.387	91	31838	0.566	ug/L	98
51) Chlorobenzene	8.879	112	12072143	340.980	ug/L	89
52) Ethylbenzene	9.011	91	30504	0.488	ug/L	95
53) m,p-Xylene	9.136	106	21542	0.955	ug/L	95

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

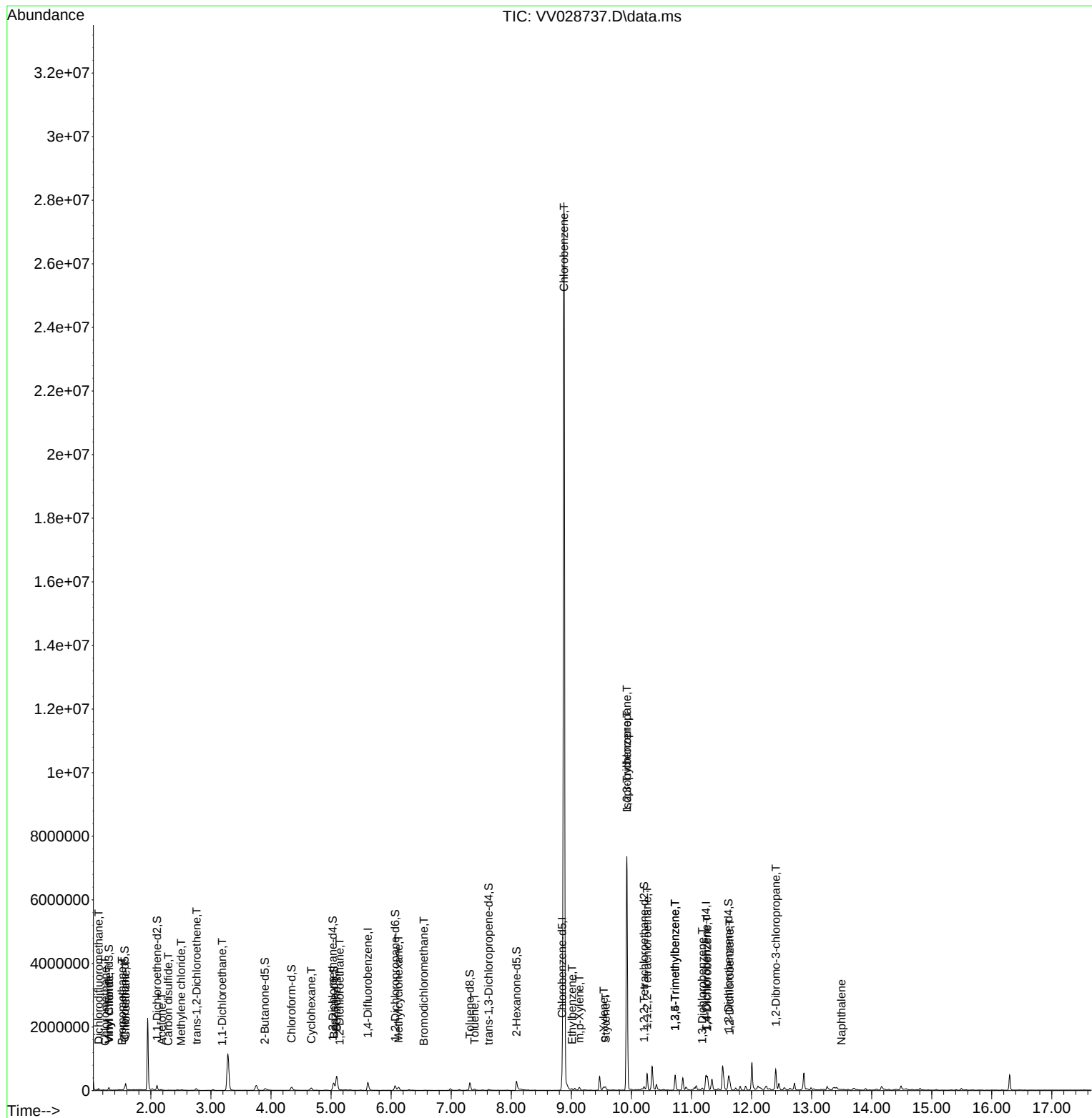
54) o-Xylene	9.538	106	19810	0.873	ug/L	96
55) Styrene	9.570	104	4725	0.123	ug/L	91
57) 1,1,2,2-Tetrachloroethane	10.262	83	5531	0.474	ug/L #	32
60) Isopropylbenzene	9.924	105	4287872	70.749	ug/L	99
61) 1,2,3-Trichloropropane	9.924	75	57686	6.976	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.728	105	265535	15.018	ug/L #	72
63) 1,2,4-Trimethylbenzene	10.728	105	265535	5.423	ug/L #	76
64) 1,3-Dichlorobenzene	11.178	146	15798	0.605	ug/L	96
65) 1,4-Dichlorobenzene	11.265	146	133734	5.134	ug/L	97
67) 1,2-Dichlorobenzene	11.635	146	64746	2.712	ug/L	99
68) 1,2-Dibromo-3-chloropr...	12.406	75	3259	1.914	ug/L #	9
71) Naphthalene	13.500	128	9899	0.383	ug/L #	87

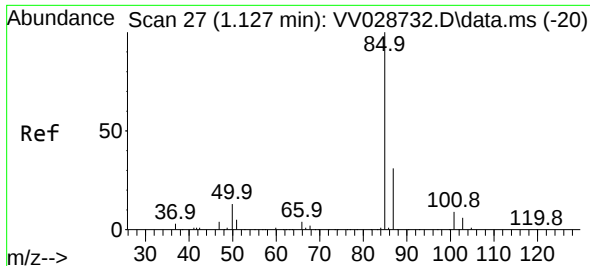
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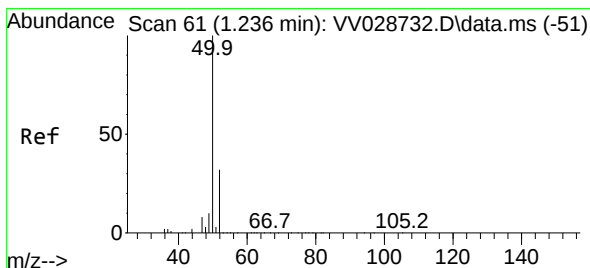
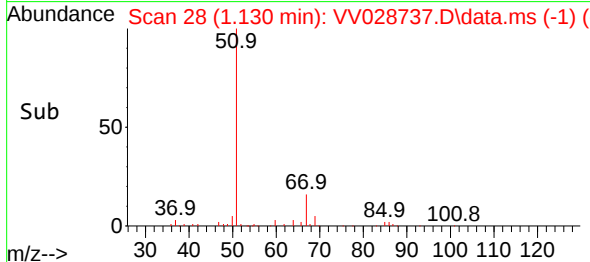
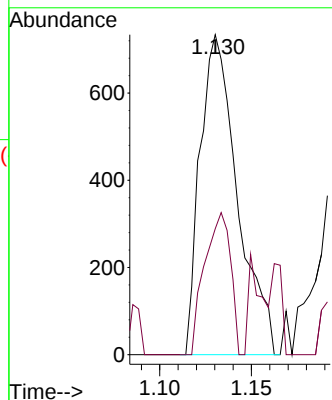
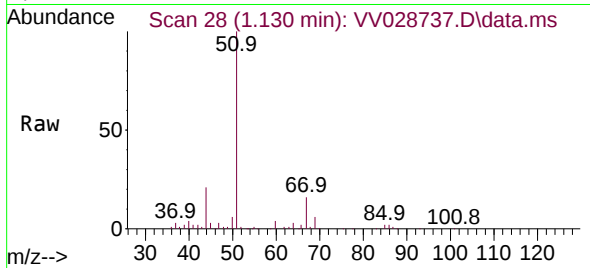




#2
Dichlorodifluoromethane
Concen: 0.123 ug/L
RT: 1.130 min Scan# 27
Delta R.T. 0.003 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

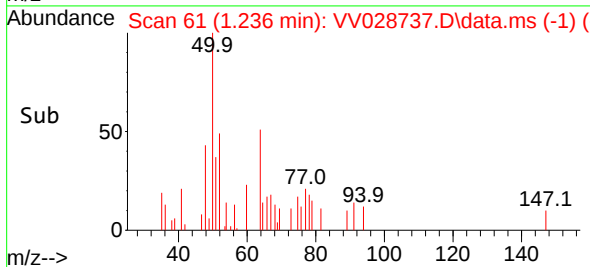
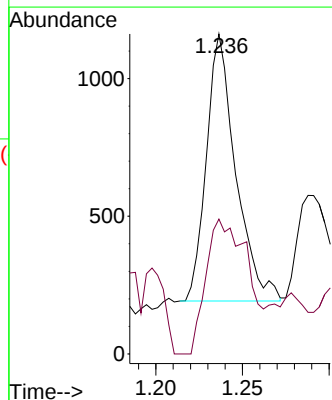
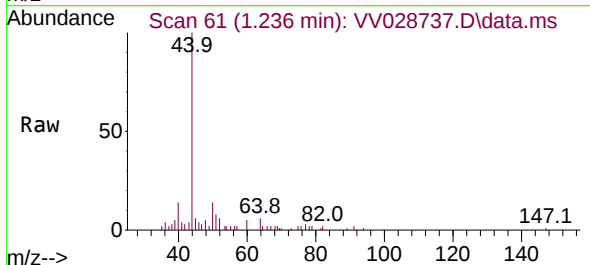
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ClientSampleId :
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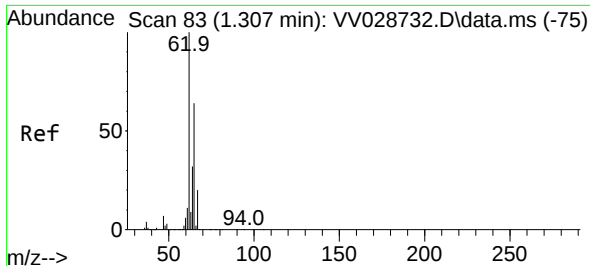
Tgt Ion: 85 Resp: 1043
Ion Ratio Lower Upper
85 100
87 30.8 26.6 40.0



#3
Chloromethane
Concen: 0.072 ug/L
RT: 1.236 min Scan# 61
Delta R.T. -0.000 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

Tgt Ion: 50 Resp: 1142
Ion Ratio Lower Upper
50 100
52 42.2 21.8 40.6#

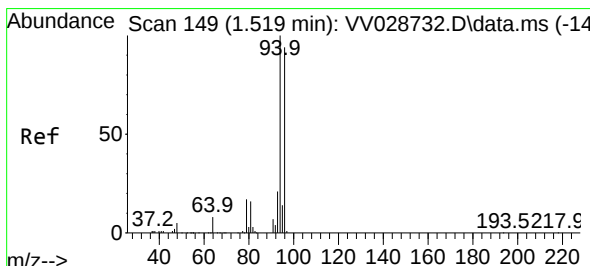
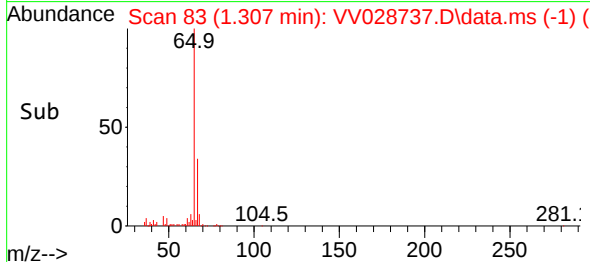
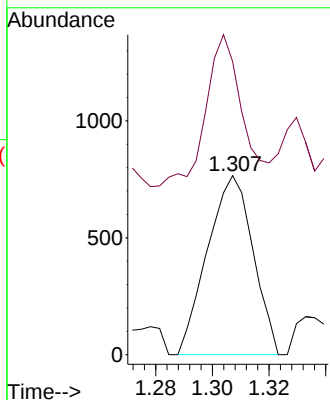
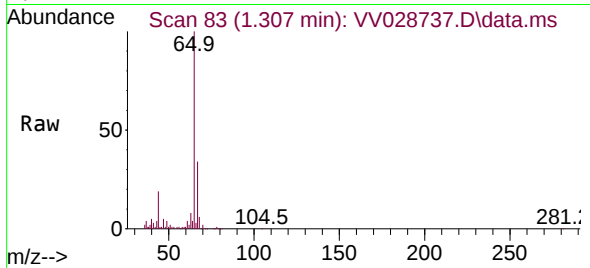




#5
 Vinyl chloride
 Concen: 0.054 ug/L
 RT: 1.307 min Scan# 81
 Delta R.T. -0.000 min
 Lab File: VV028737.D
 Acq: 27 Oct 2022 23:51

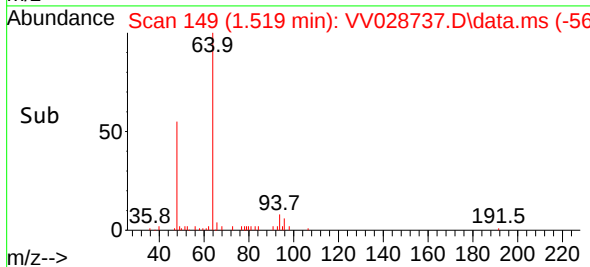
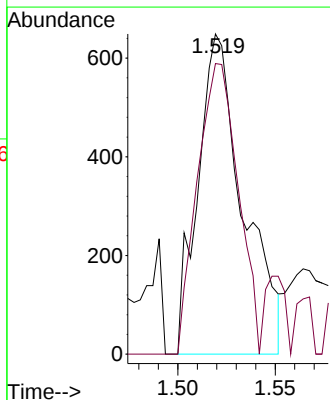
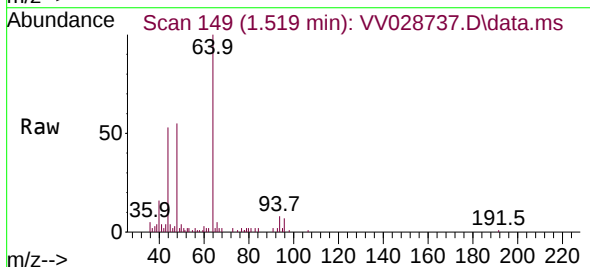
Instrument :
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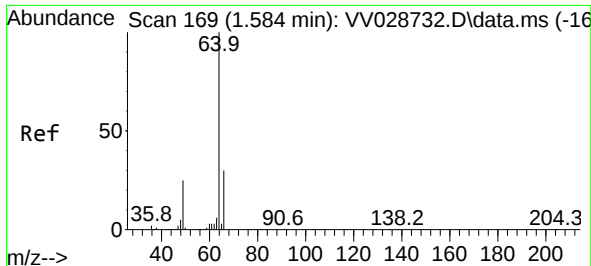
Tgt Ion: 62 Resp: 854
 Ion Ratio Lower Upper
 62 100
 64 163.8 22.0 41.0#



#6
 Bromomethane
 Concen: 0.139 ug/L
 RT: 1.519 min Scan# 149
 Delta R.T. -0.000 min
 Lab File: VV028737.D
 Acq: 27 Oct 2022 23:51

Tgt Ion: 94 Resp: 1047
 Ion Ratio Lower Upper
 94 100
 96 90.8 64.3 119.3

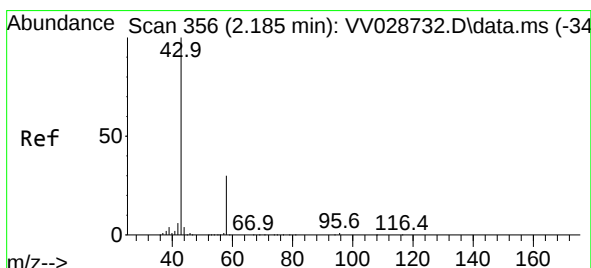
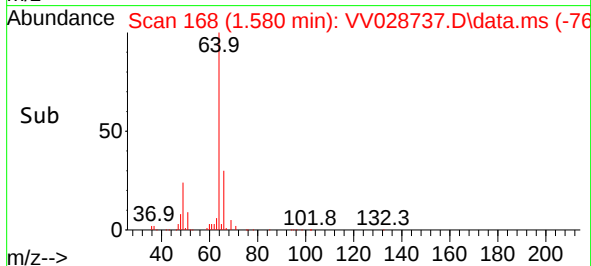
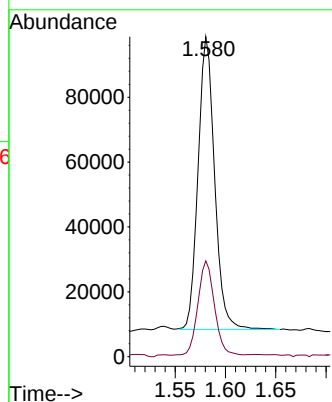
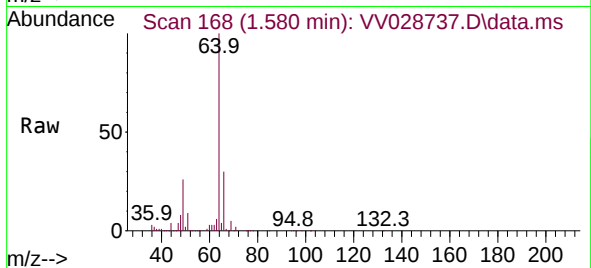




#8
Chloroethane
Concen: 9.637 ug/L
RT: 1.580 min Scan# 1
Delta R.T. -0.003 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

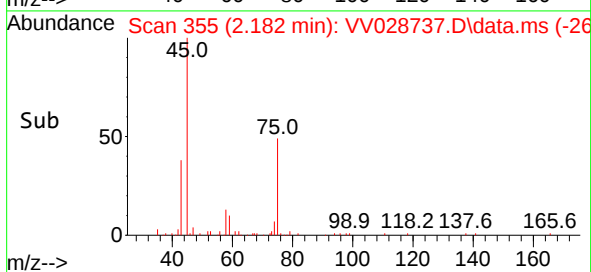
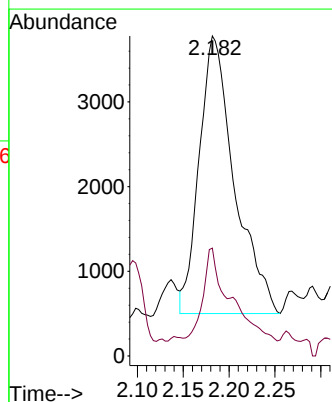
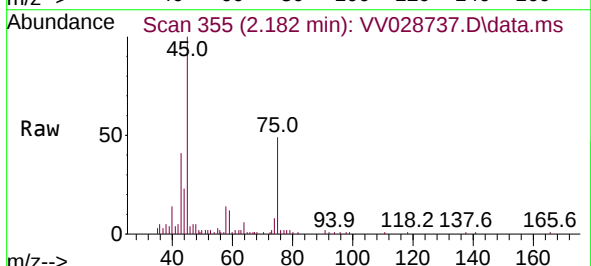
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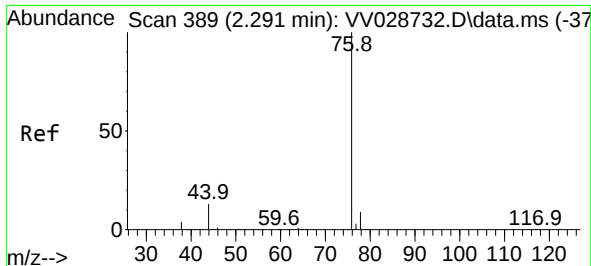
Tgt Ion: 64 Resp: 103264
Ion Ratio Lower Upper
64 100
66 30.0 23.9 44.5



#13
Acetone
Concen: 4.622 ug/L
RT: 2.182 min Scan# 355
Delta R.T. -0.003 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

Tgt Ion: 43 Resp: 8764
Ion Ratio Lower Upper
43 100
58 25.4 0.0 50.2

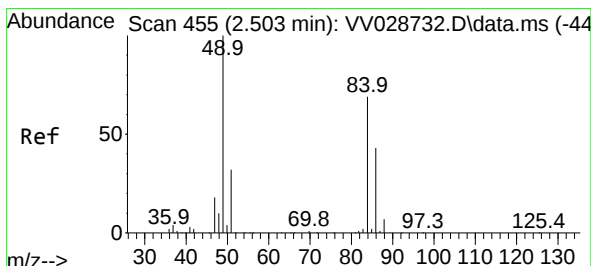
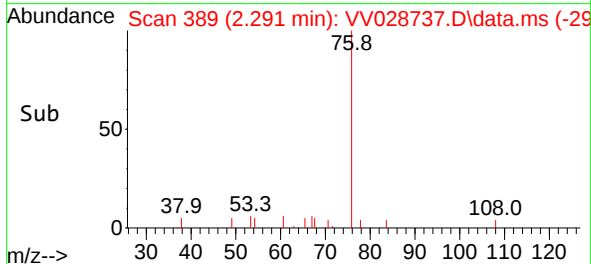
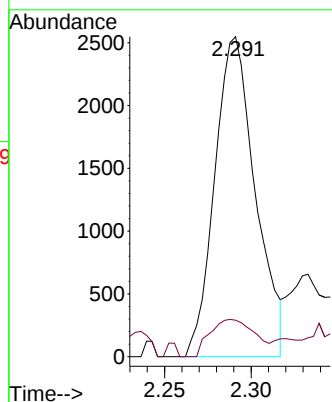
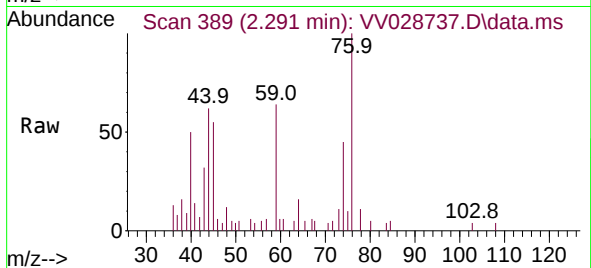




#14
Carbon disulfide
Concen: 0.163 ug/L
RT: 2.291 min Scan# 389
Delta R.T. -0.000 min
Lab File: VV028737.D
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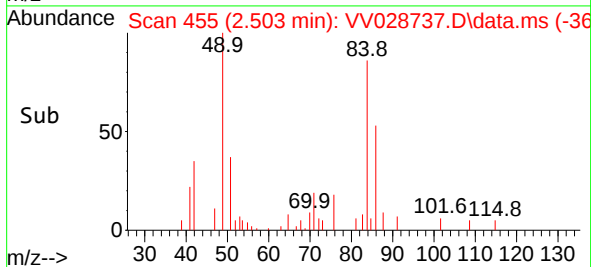
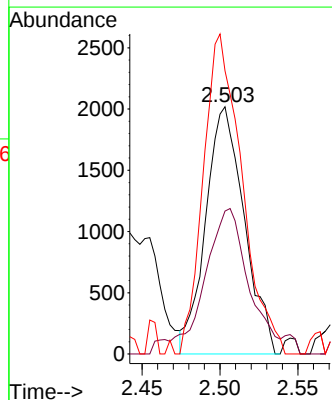
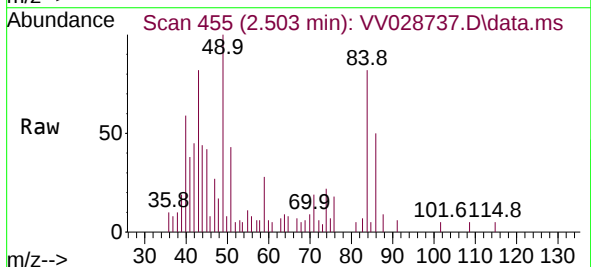
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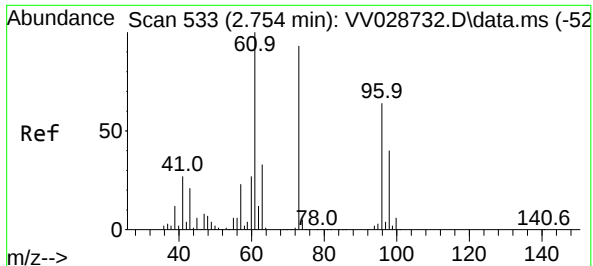
Tgt Ion: 76 Resp: 4160
Ion Ratio Lower Upper
76 100
78 11.4 7.1 10.7#



#16
Methylene chloride
Concen: 0.227 ug/L
RT: 2.503 min Scan# 455
Delta R.T. -0.000 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

Tgt Ion: 84 Resp: 3470
Ion Ratio Lower Upper
84 100
86 57.8 44.4 82.4
49 123.1 110.8 205.8

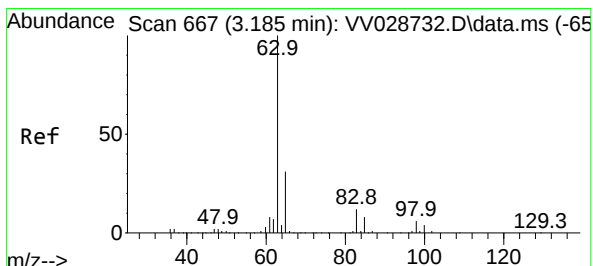
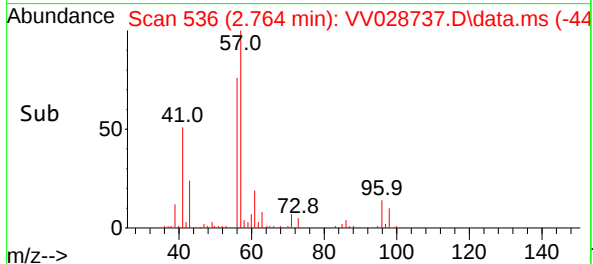
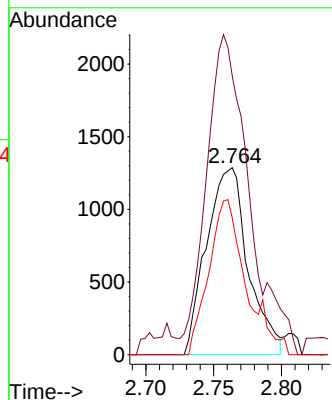
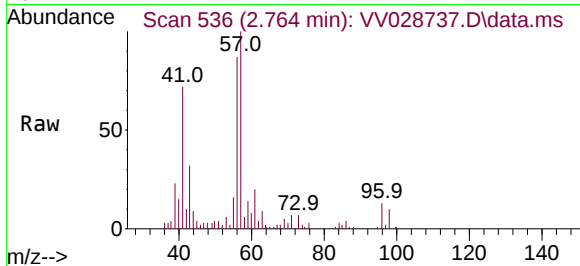




#18
trans-1,2-Dichloroethene
Concen: 0.247 ug/L
RT: 2.764 min Scan# 51
Delta R.T. 0.010 min
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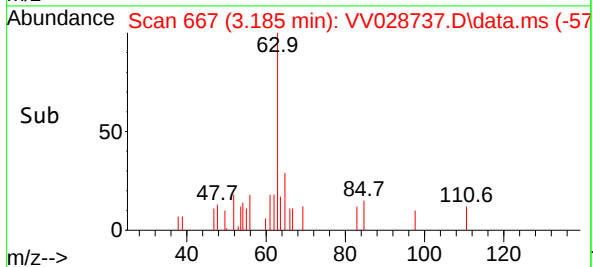
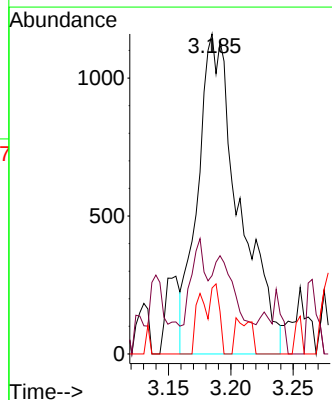
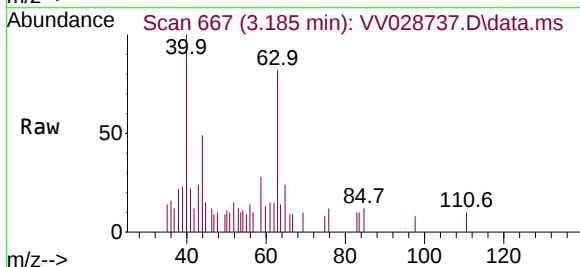
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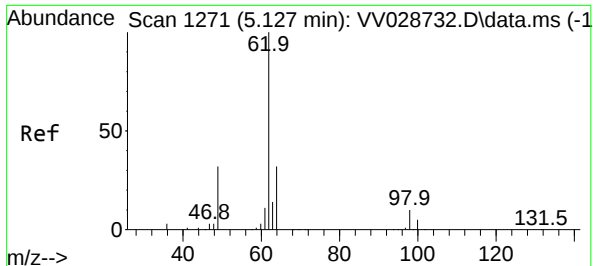
Tgt Ion: 96 Resp: 2749
Ion Ratio Lower Upper
96 100
61 149.2 114.3 212.3
98 73.3 45.0 83.6



#19
1,1-Dichloroethane
Concen: 0.100 ug/L
RT: 3.185 min Scan# 667
Delta R.T. -0.000 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

Tgt Ion: 63 Resp: 2679
Ion Ratio Lower Upper
63 100
65 24.5 23.1 42.9
83 20.6 7.9 14.7#





#27

1,2-Dichloroethane

Concen: 0.075 ug/L

RT: 5.143 min Scan# 11

Delta R.T. 0.016 min

Lab File: VV028737.D

Acq: 27 Oct 2022 23:51

Instrument :

MSVOA_V

ClientSampleId :

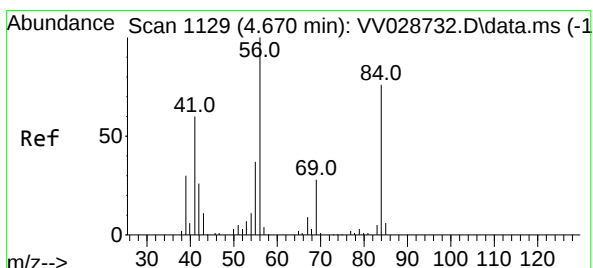
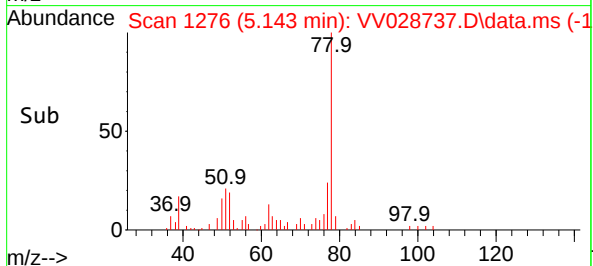
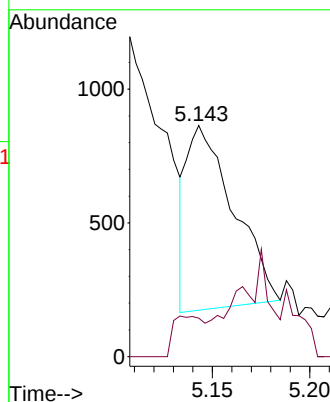
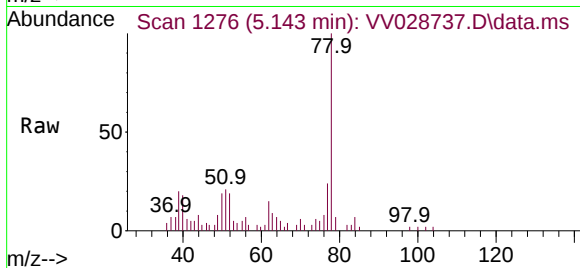
BHAB9

Tgt Ion: 62 Resp: 1155

Ion Ratio Lower Upper

62 100

98 16.7 6.6 9.8#



#30

Cyclohexane

Concen: 1.613 ug/L

RT: 4.670 min Scan# 1129

Delta R.T. -0.000 min

Lab File: VV028737.D

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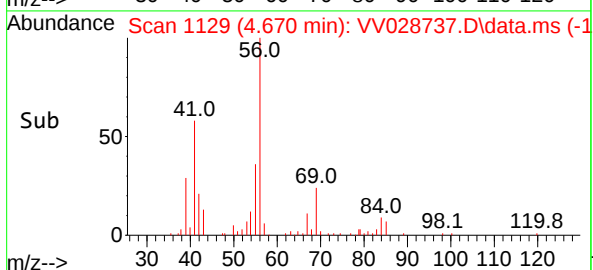
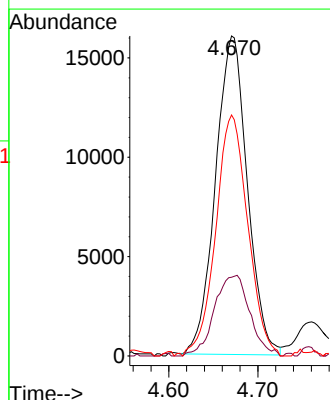
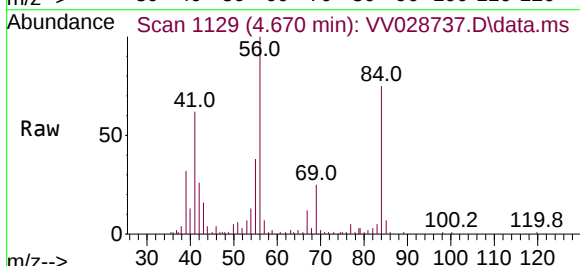
Tgt Ion: 56 Resp: 39880

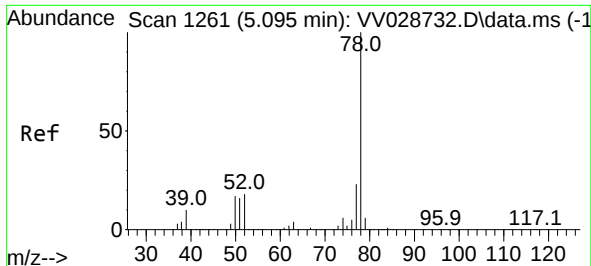
Ion Ratio Lower Upper

56 100

69 28.0 22.6 34.0

84 76.2 60.4 90.6

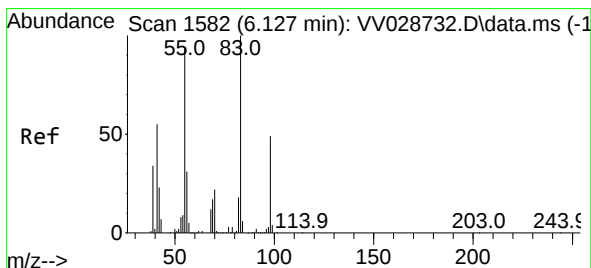
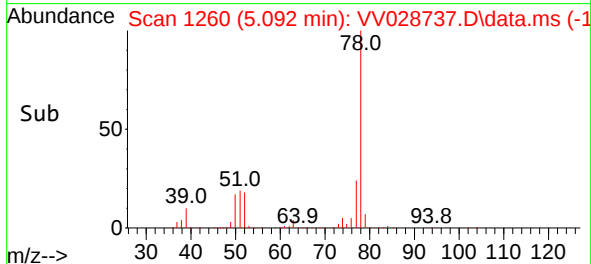
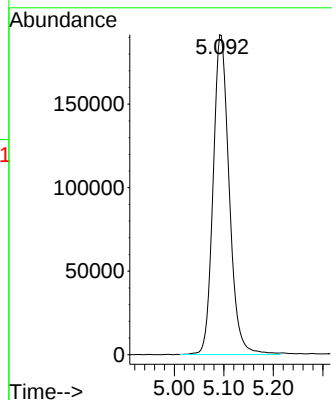
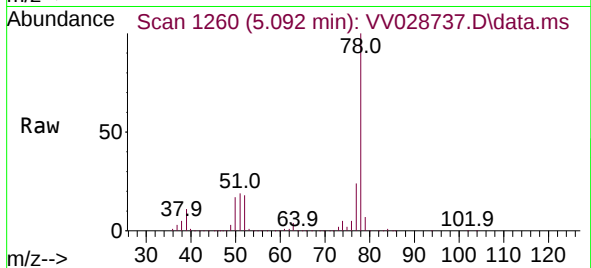




#33
Benzene
Concen: 7.278 ug/L
RT: 5.092 min Scan# 11
Delta R.T. -0.003 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

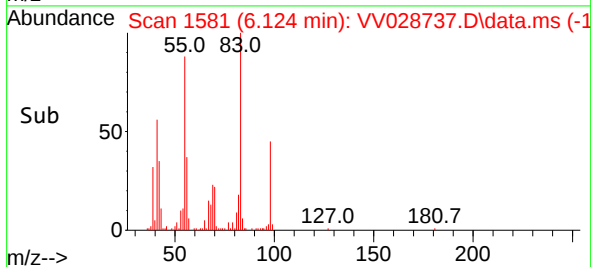
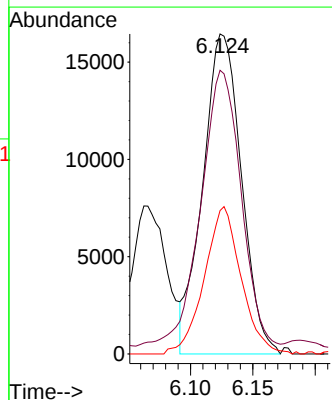
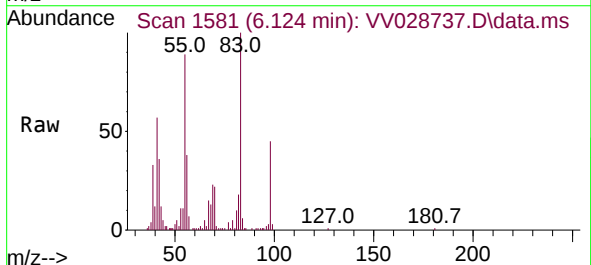
Instrument :
MSVOA_V
ClientSampleId :
BHAB9

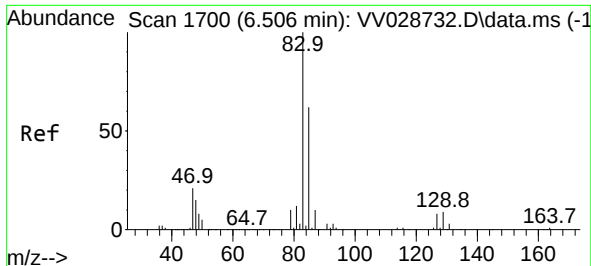
Tgt Ion: 78 Resp: 431599



#35
Methylcyclohexane
Concen: 1.752 ug/L
RT: 6.124 min Scan# 1581
Delta R.T. -0.003 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

Tgt Ion: 83 Resp: 35563
Ion Ratio Lower Upper
83 100
55 91.6 70.0 105.0
98 43.8 35.6 53.4

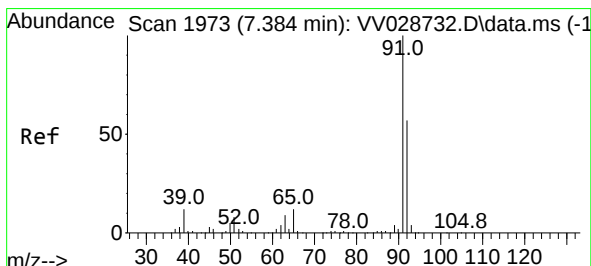
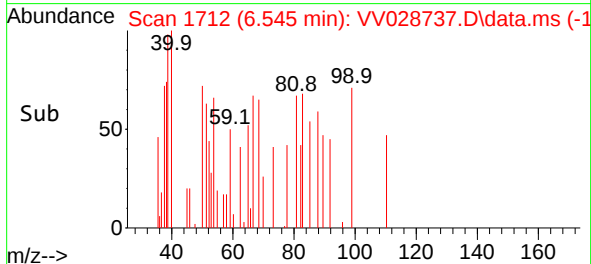
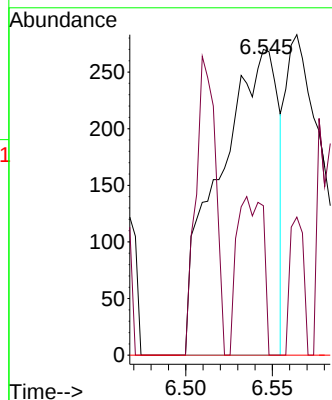
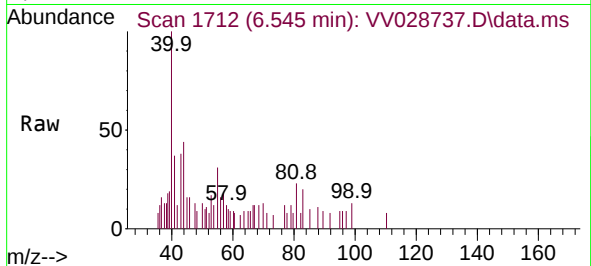




#38
Bromodichloromethane
Concen: 0.035 ug/L
RT: 6.545 min Scan# 11
Delta R.T. 0.039 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

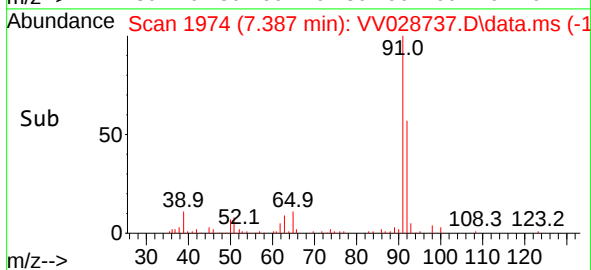
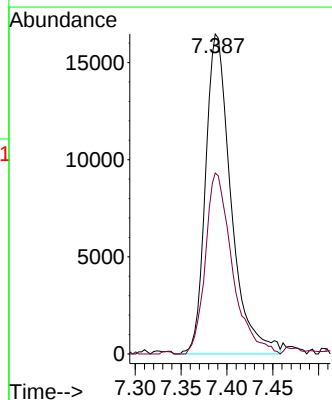
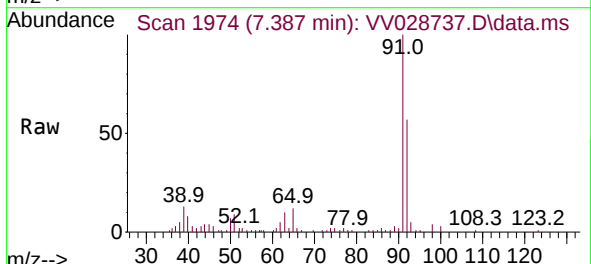
Instrument :
MSVOA_V
ClientSampleId :
BHAB9

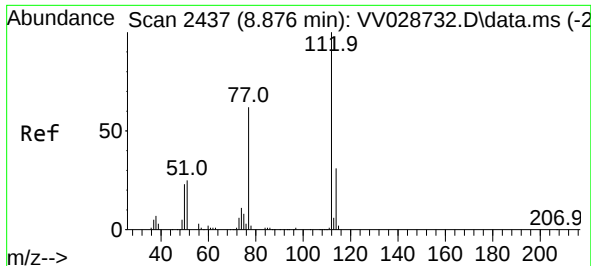
Tgt Ion: 83 Resp: 642
Ion Ratio Lower Upper
83 100
85 48.9 45.1 83.9
127 0.0 5.7 8.5#



#42
Toluene
Concen: 0.566 ug/L
RT: 7.387 min Scan# 1974
Delta R.T. 0.003 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

Tgt Ion: 91 Resp: 31838
Ion Ratio Lower Upper
91 100
92 56.6 40.5 75.3

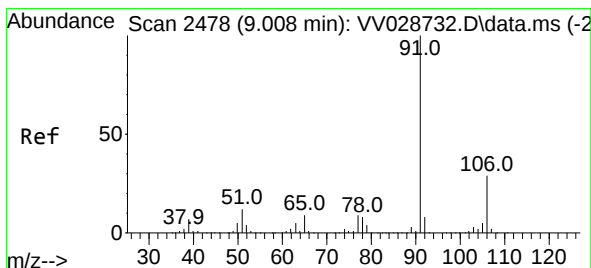
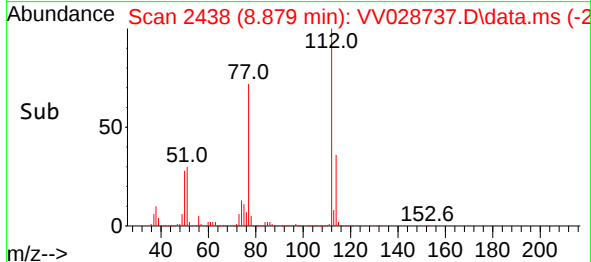
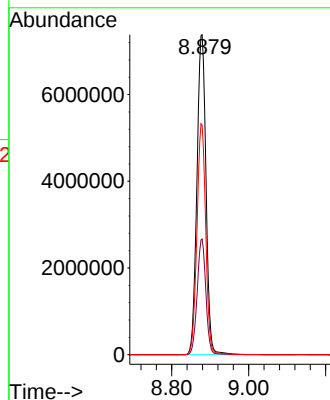
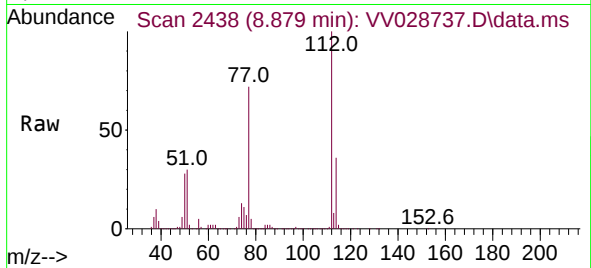




#51
Chlorobenzene
Concen: 340.980 ug/L
RT: 8.879 min Scan# 2437
Delta R.T. 0.003 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

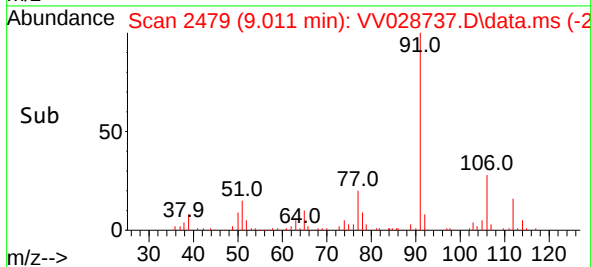
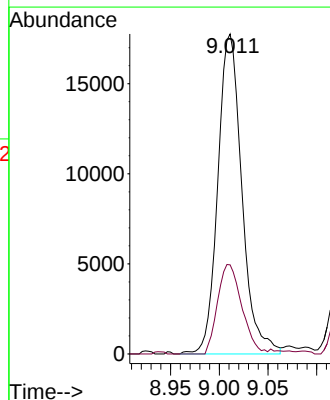
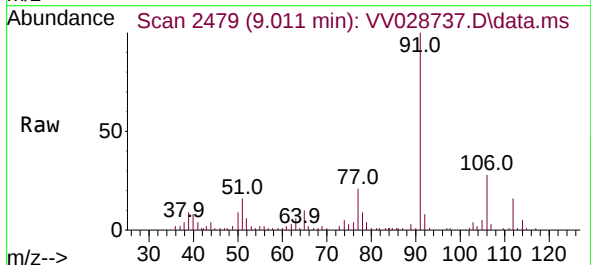
Instrument :
MSVOA_V
ClientSampleId :
BHAB9

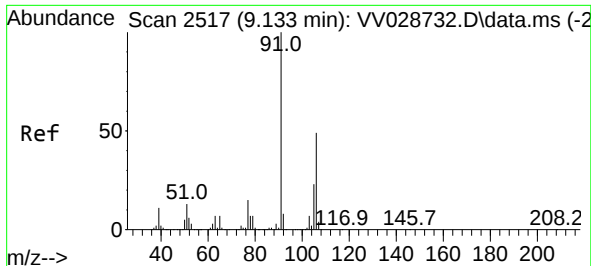
Tgt Ion:112 Resp:12072143
Ion Ratio Lower Upper
112 100
114 36.1 22.0 41.0
77 71.7 50.0 75.0



#52
Ethylbenzene
Concen: 0.488 ug/L
RT: 9.011 min Scan# 2479
Delta R.T. 0.003 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

Tgt Ion: 91 Resp: 30504
Ion Ratio Lower Upper
91 100
106 27.8 21.3 39.6

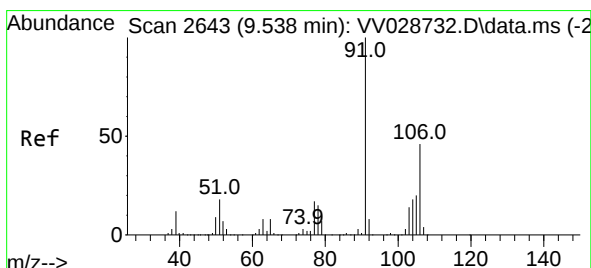
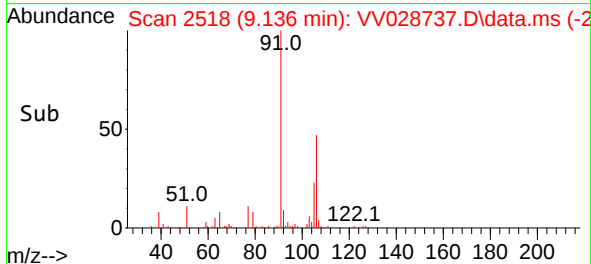
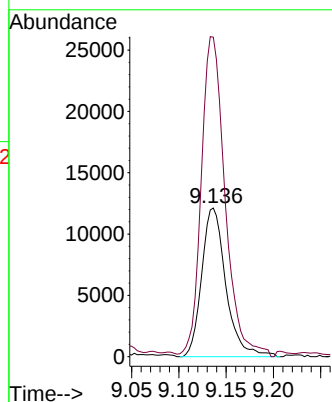
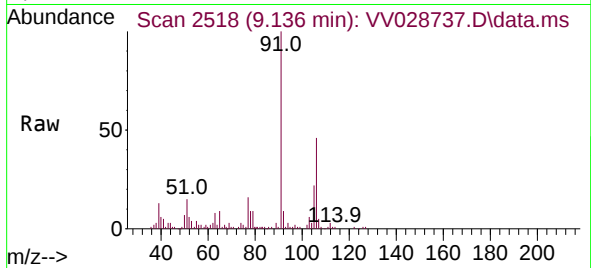




#53
m,p-Xylene
Concen: 0.955 ug/L
RT: 9.136 min Scan# 21542
Delta R.T. 0.003 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

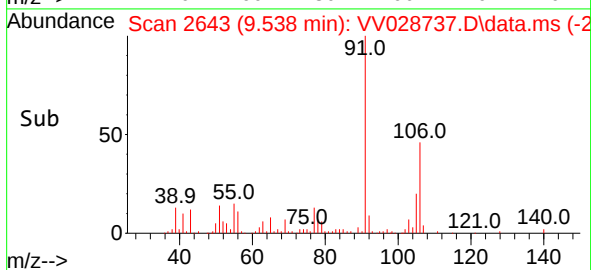
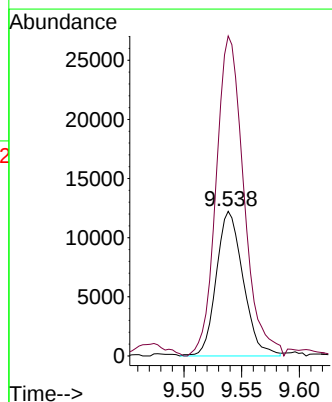
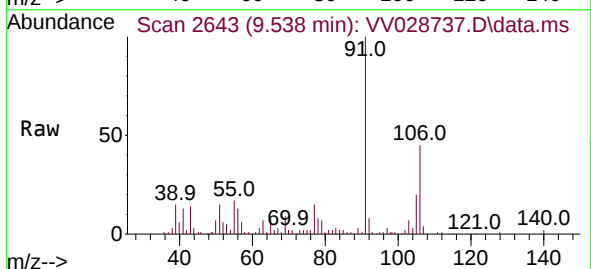
Instrument :
MSVOA_V
ClientSampleId :
BHAB9

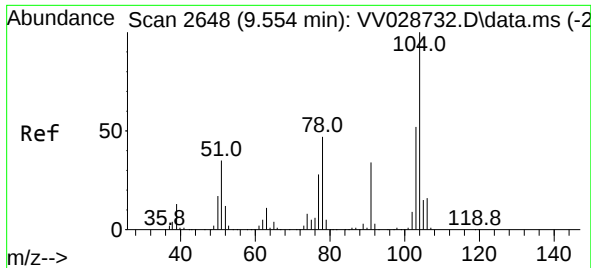
Tgt Ion:106 Resp: 21542
Ion Ratio Lower Upper
106 100
91 215.1 145.5 270.1



#54
o-Xylene
Concen: 0.873 ug/L
RT: 9.538 min Scan# 2643
Delta R.T. -0.000 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

Tgt Ion:106 Resp: 19810
Ion Ratio Lower Upper
106 100
91 221.1 159.0 295.4

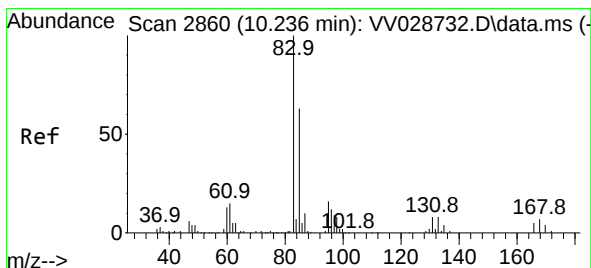
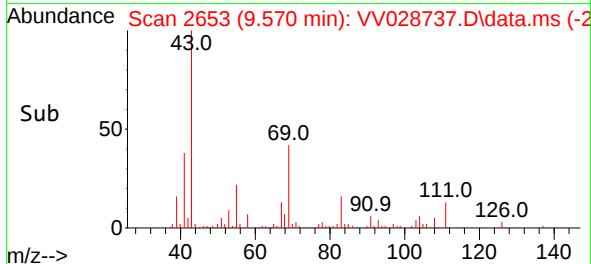
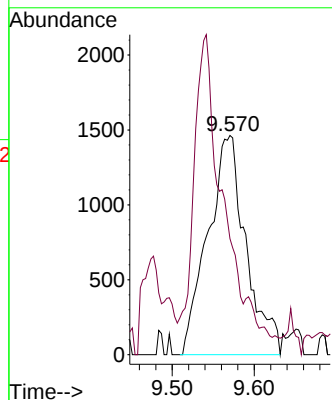
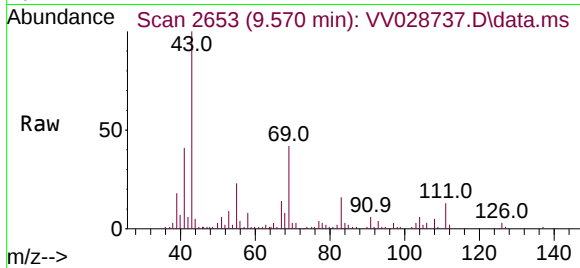




#55
Styrene
Concen: 0.123 ug/L
RT: 9.570 min Scan# 21
Delta R.T. 0.016 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

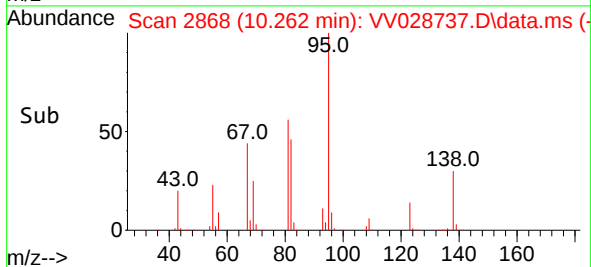
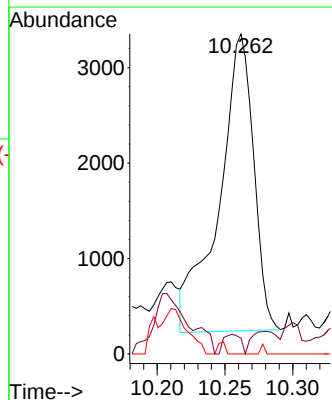
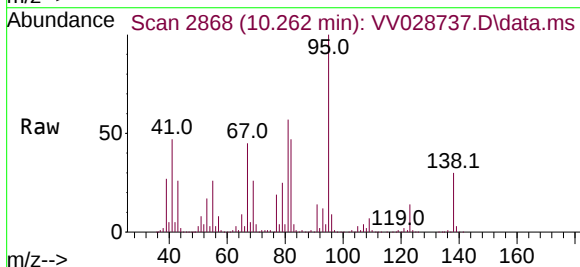
Instrument :
MSVOA_V
ClientSampleId :
BHAB9

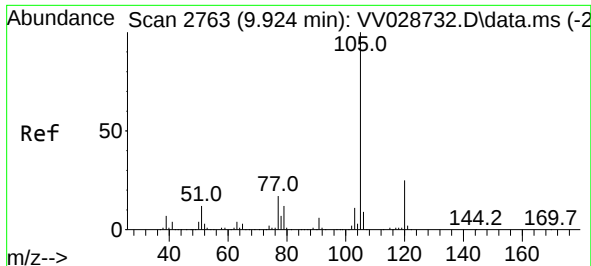
Tgt Ion:104 Resp: 4725
Ion Ratio Lower Upper
104 100
78 52.9 32.8 61.0



#57
1,1,2,2-Tetrachloroethane
Concen: 0.474 ug/L
RT: 10.262 min Scan# 2868
Delta R.T. 0.026 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

Tgt Ion: 83 Resp: 5531
Ion Ratio Lower Upper
83 100
85 5.0 43.0 80.0#
131 0.0 6.5 9.7#

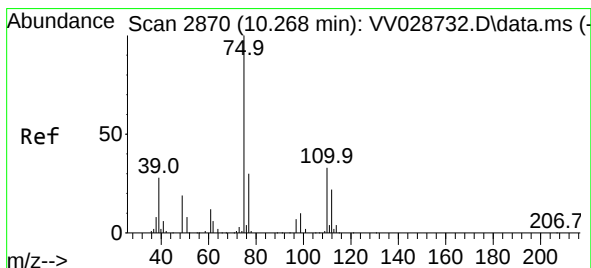
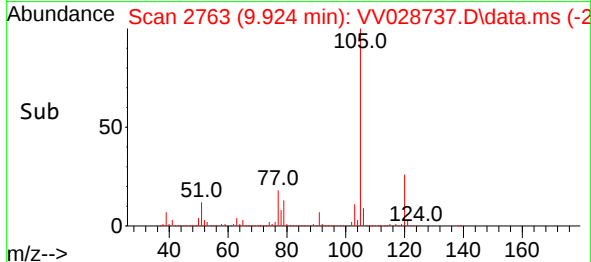
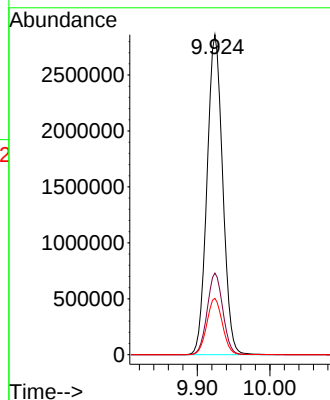
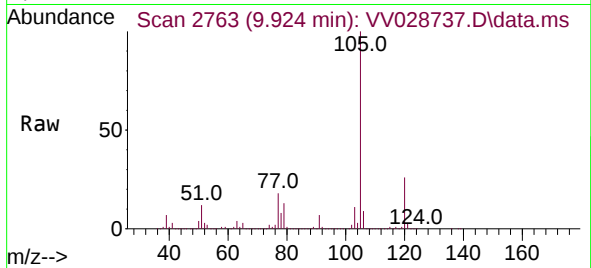




#60
Isopropylbenzene
Concen: 70.749 ug/L
RT: 9.924 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

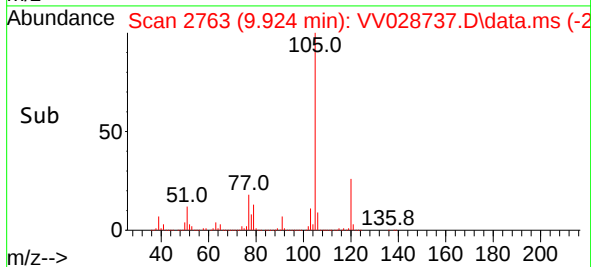
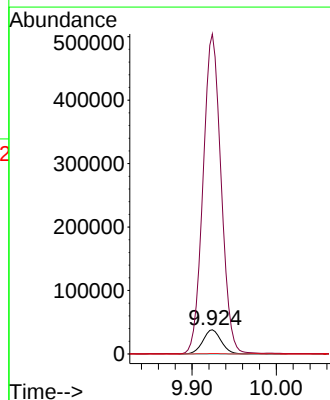
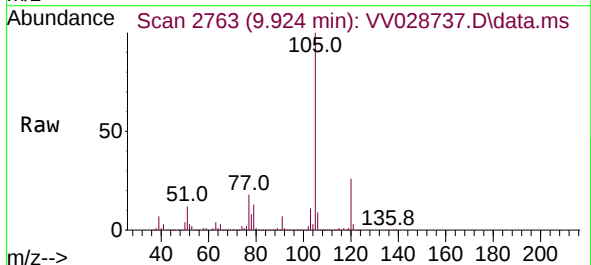
Instrument :
MSVOA_V
ClientSampleId :
BHAB9

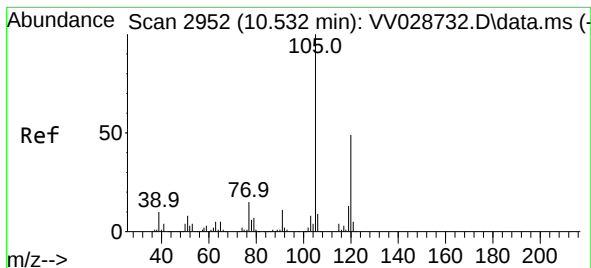
Tgt Ion:105 Resp: 4287872
Ion Ratio Lower Upper
105 100
120 25.4 20.1 30.1
77 17.5 13.4 20.0



#61
1,2,3-Trichloropropane
Concen: 6.976 ug/L
RT: 9.924 min Scan# 2763
Delta R.T. -0.344 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

Tgt Ion: 75 Resp: 57686
Ion Ratio Lower Upper
75 100
77 1303.1 25.2 37.8#
110 1.2 27.9 41.9#





#62

1,3,5-Trimethylbenzene

Concen: 15.018 ug/L

RT: 10.728 min Scan# 3013

Delta R.T. 0.196 min

Lab File: VV028737.D

Acq: 27 Oct 2022 23:51

Instrument :

MSVOA_V

ClientSampleId :

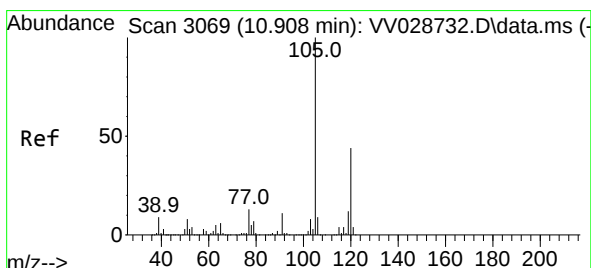
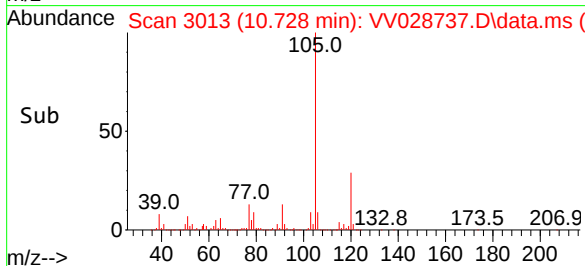
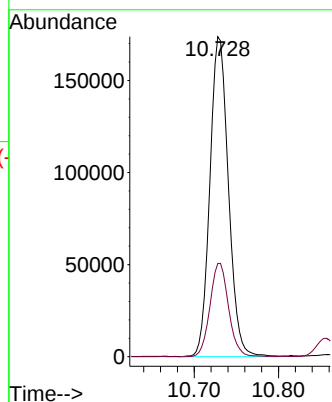
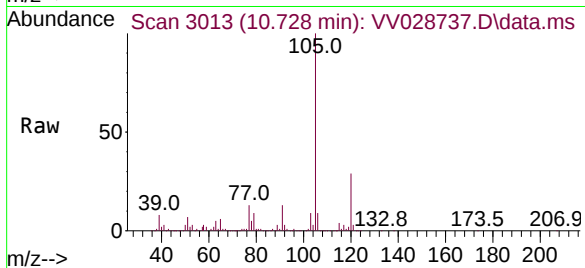
BHAB9

Tgt Ion:105 Resp: 265535

Ion Ratio Lower Upper

105 100

120 29.3 38.3 57.5#



#63

1,2,4-Trimethylbenzene

Concen: 5.423 ug/L

RT: 10.728 min Scan# 3013

Delta R.T. -0.180 min

Lab File: VV028737.D

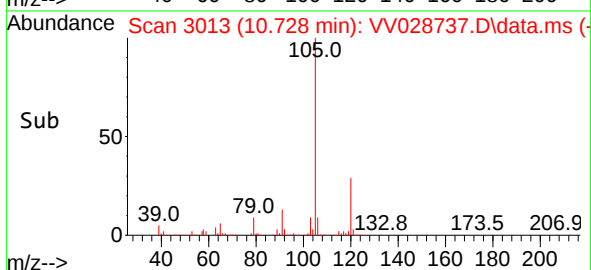
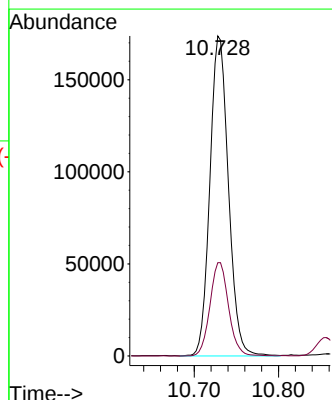
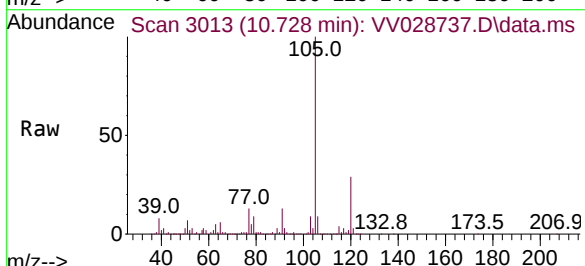
Acq: 27 Oct 2022 23:51

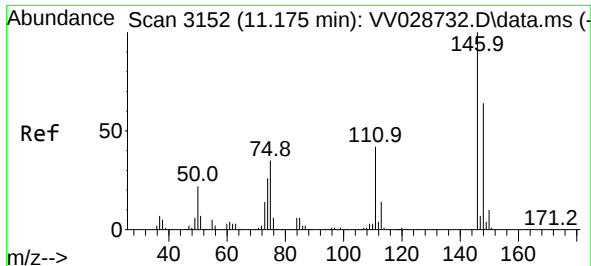
Tgt Ion:105 Resp: 265535

Ion Ratio Lower Upper

105 100

120 29.3 36.2 54.2#

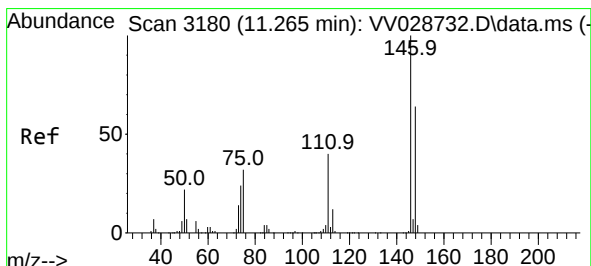
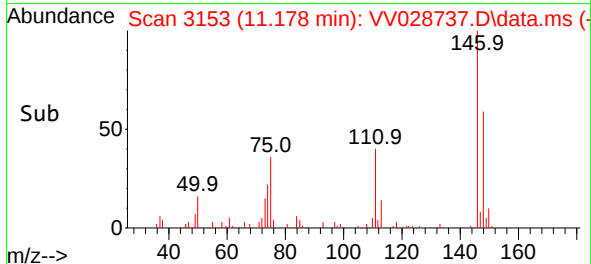
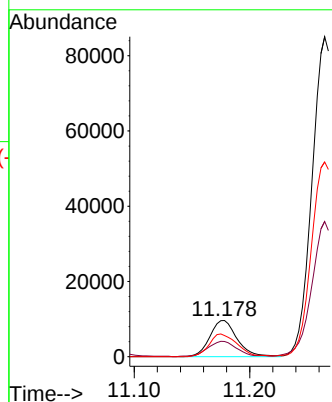
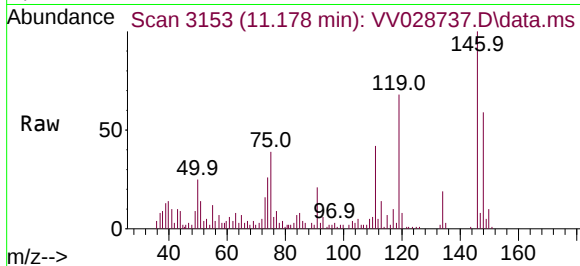




#64
1,3-Dichlorobenzene
Concen: 0.605 ug/L
RT: 11.178 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

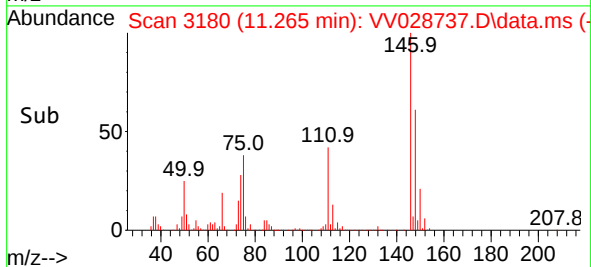
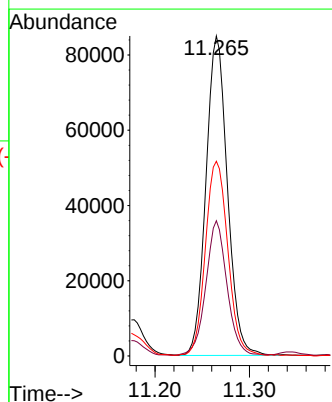
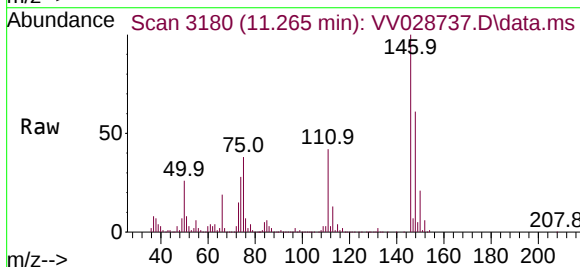
Instrument :
MSVOA_V
ClientSampleId :
BHAB9

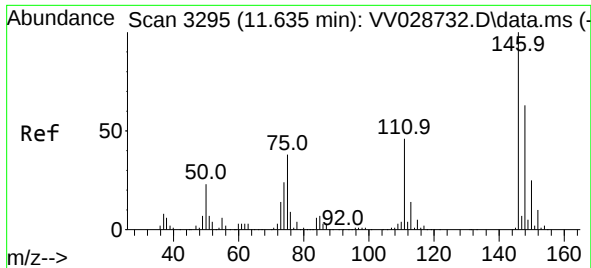
Tgt Ion:146 Resp: 15798
Ion Ratio Lower Upper
146 100
111 42.2 29.0 53.9
148 58.7 44.5 82.7



#65
1,4-Dichlorobenzene
Concen: 5.134 ug/L
RT: 11.265 min Scan# 3180
Delta R.T. -0.000 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

Tgt Ion:146 Resp: 133734
Ion Ratio Lower Upper
146 100
111 42.2 28.6 53.2
148 60.8 44.3 82.3

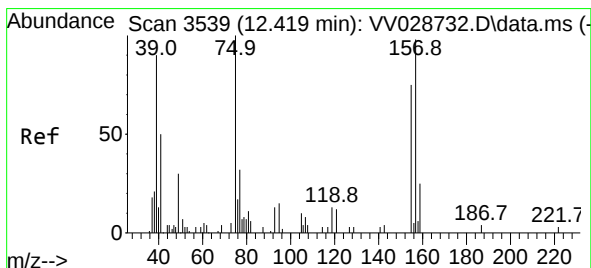
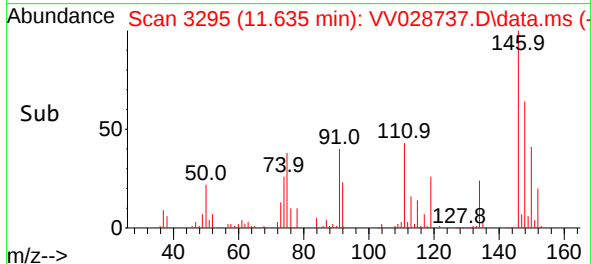
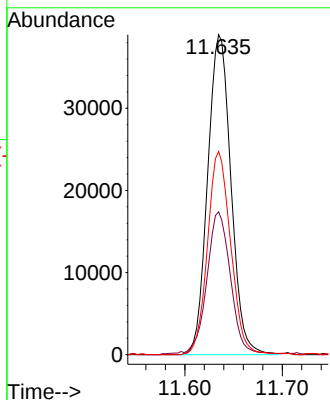
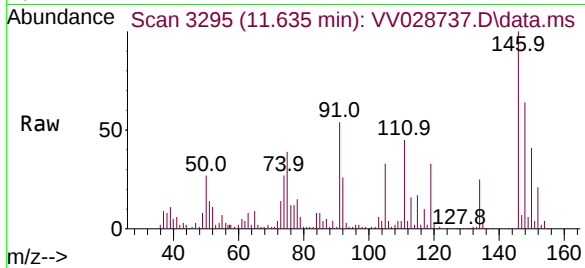




#67
1,2-Dichlorobenzene
Concen: 2.712 ug/L
RT: 11.635 min Scan# 31
Delta R.T. -0.000 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

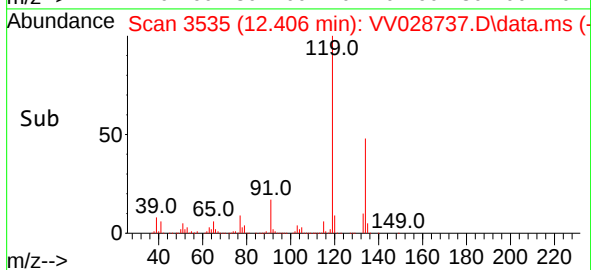
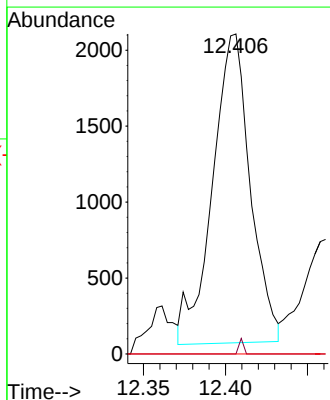
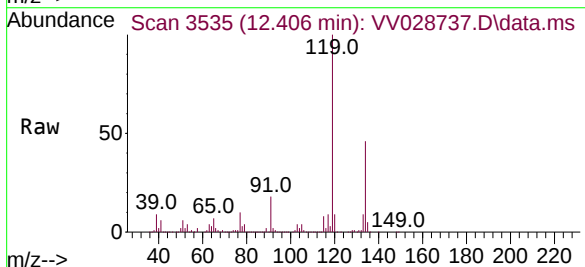
Instrument :
MSVOA_V
ClientSampleId :
BHAB9

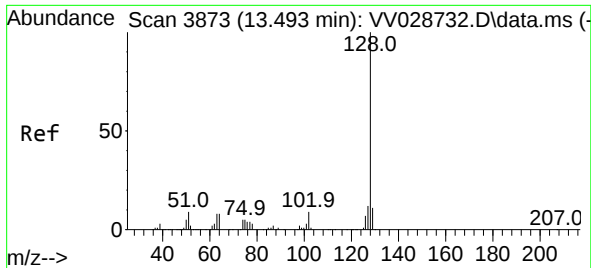
Tgt Ion:146 Resp: 64746
Ion Ratio Lower Upper
146 100
111 44.6 36.2 54.4
148 63.5 50.6 75.8



#68
1,2-Dibromo-3-chloropropane
Concen: 1.914 ug/L
RT: 12.406 min Scan# 3535
Delta R.T. -0.013 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

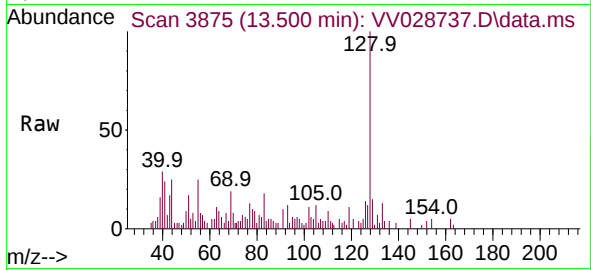
Tgt Ion: 75 Resp: 3259
Ion Ratio Lower Upper
75 100
155 0.0 58.2 87.2#
157 0.0 71.5 107.3#





#71
Naphthalene
Concen: 0.383 ug/L
RT: 13.500 min Scan# 31
Delta R.T. 0.006 min
Lab File: VV028737.D
Acq: 27 Oct 2022 23:51

Instrument :
MSVOA_V
ClientSampleId :
BHAB9



Tgt Ion:128 Resp: 9899
Ion Ratio Lower Upper
128 100
129 19.0 8.9 13.3#
127 10.3 10.2 15.4

