

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW102822\
 Data File : VW028756.D
 Acq On : 28 Oct 2022 14:55
 Operator : SY/MD
 Sample : N5233-09DL 200X
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BHA77DL

Quant Time: Oct 28 21:53:39 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR102522WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Oct 28 21:50:06 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.613	114	182349	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.847	117	170967	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.243	152	79654	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	45821	3.613	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.200%
7) Chloroethane-d5	1.565	69	46717	4.357	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.200%
11) 1,1-Dichloroethene-d2	2.105	63	72055	2.937	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	58.800%#
20) 2-Butanone-d5	3.892	46	124611	43.091	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	86.180%
24) Chloroform-d	4.346	84	98051	4.452	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.000%
26) 1,2-Dichloroethane-d4	5.027	65	53115	4.753	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.000%
32) Benzene-d6	5.047	84	187869	4.109	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.200%
36) 1,2-Dichloropropane-d6	6.066	67	68472	4.731	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.600%
41) Toluene-d8	7.314	98	152283	4.268	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.400%
43) trans-1,3-Dichloroprop...	7.622	79	17357	3.860	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	77.200%
46) 2-Hexanone-d5	8.088	63	121535	58.064	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	116.120%
56) 1,1,2,2-Tetrachloroeth...	10.210	84	48392	5.042	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.800%
66) 1,2-Dichlorobenzene-d4	11.619	152	52720	4.798	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.000%
Target Compounds						
					Qvalue	
3) Chloromethane	1.233	50	1287	0.090	ug/L	95
5) Vinyl chloride	1.311	62	3696	0.259	ug/L #	64
8) Chloroethane	1.587	64	2914	0.300	ug/L #	62
12) 1,1-Dichloroethene	2.101	96	854	0.085	ug/L #	1
14) Carbon disulfide	2.301	76	1483	0.064	ug/L #	36
16) Methylene chloride	2.503	84	6771	0.490	ug/L	93
18) trans-1,2-Dichloroethene	2.761	96	416	0.041	ug/L	98
19) 1,1-Dichloroethane	3.185	63	8387	0.345	ug/L	98
22) cis-1,2-Dichloroethene	3.905	96	32136	2.658	ug/L #	93
25) Chloroform	4.368	83	3232	0.136	ug/L #	75
27) 1,2-Dichloroethane	5.095	62	17243	1.232	ug/L #	77
30) Cyclohexane	4.680	56	2269	0.106	ug/L #	79
33) Benzene	5.092	78	1801624	35.259	ug/L	100
35) Methylcyclohexane	6.127	83	2282	0.131	ug/L #	82
37) 1,2-Dichloropropane	6.063	63	8584	0.658	ug/L #	90
42) Toluene	7.381	91	745547	15.388	ug/L	100
51) Chlorobenzene	8.876	112	44457	1.457	ug/L	97
52) Ethylbenzene	9.008	91	365495	6.788	ug/L	98
53) m,p-Xylene	9.130	106	495994	25.512	ug/L	97

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 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Fri Oct 28 21:50:06 2022
 Response via : Initial Calibration

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

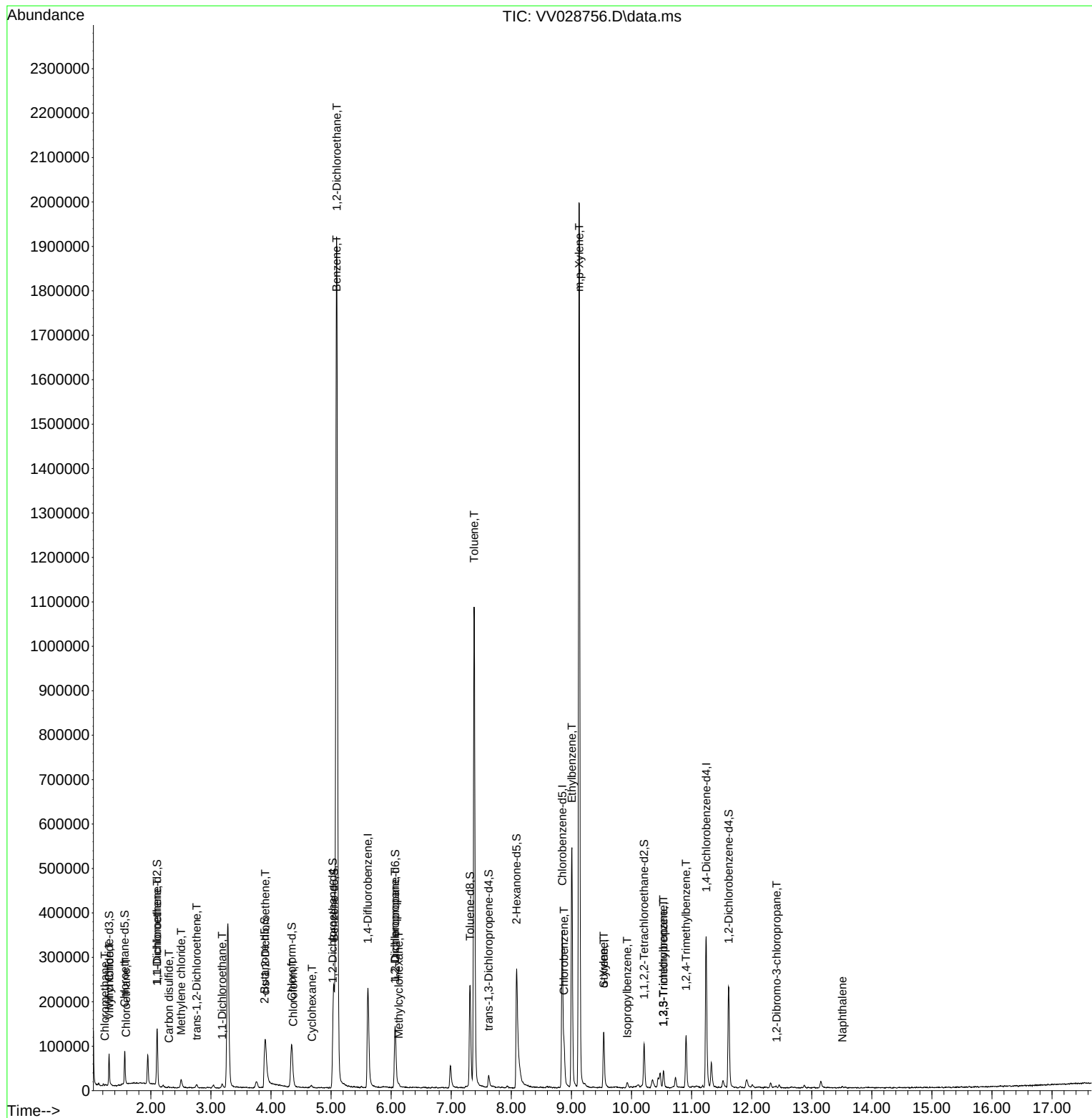
54) o-Xylene	9.538	106	31843	1.628	ug/L	92
55) Styrene	9.538	104	1927	0.058	ug/L #	1
60) Isopropylbenzene	9.928	105	6935	0.138	ug/L #	82
61) 1,2,3-Trichloropropane	10.532	75	489	0.072	ug/L #	45
62) 1,3,5-Trimethylbenzene	10.532	105	18412	1.259	ug/L	92
63) 1,2,4-Trimethylbenzene	10.908	105	62958	1.555	ug/L	97
68) 1,2-Dibromo-3-chloropr...	12.416	75	175	0.124	ug/L #	9
71) Naphthalene	13.509	128	1917	0.090	ug/L #	85

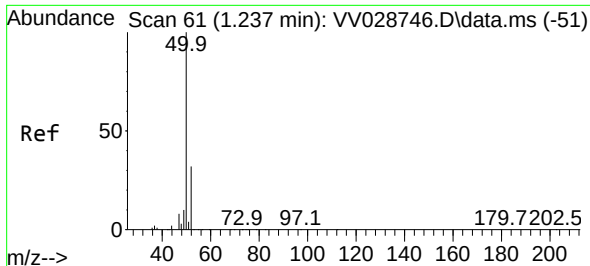
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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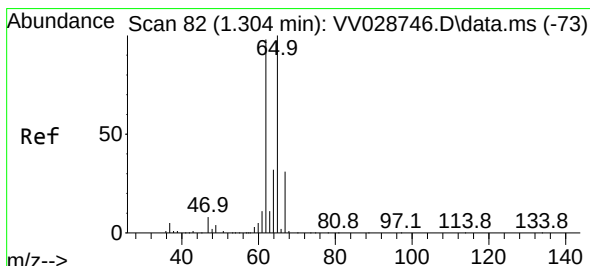
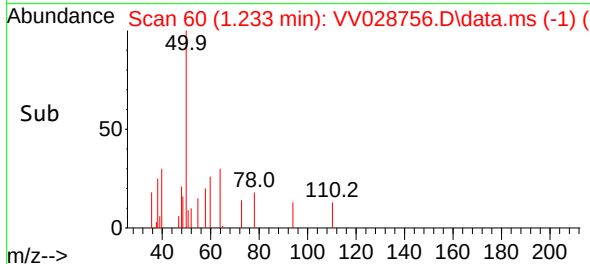
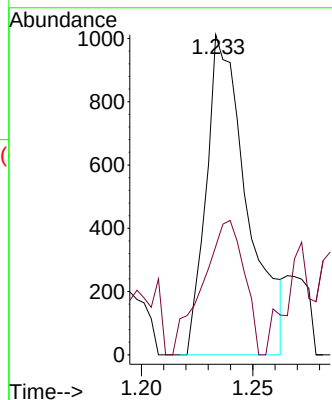
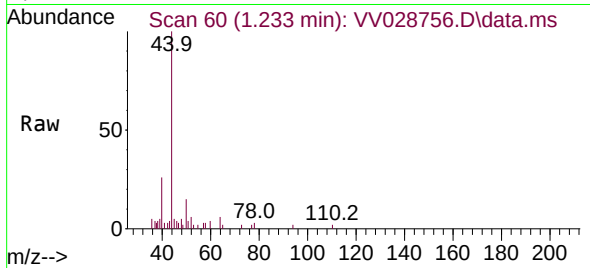




#3
Chloromethane
Concen: 0.090 ug/L
RT: 1.233 min Scan# 60
Delta R.T. -0.003 min
Lab File: VV028756.D
Acq: 28 Oct 2022 14:55

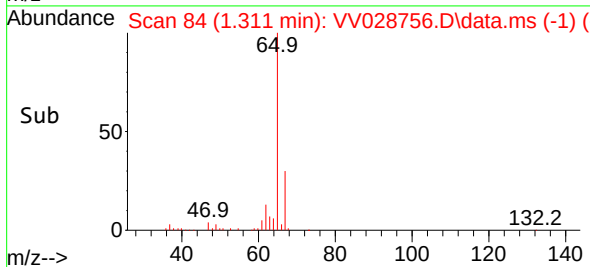
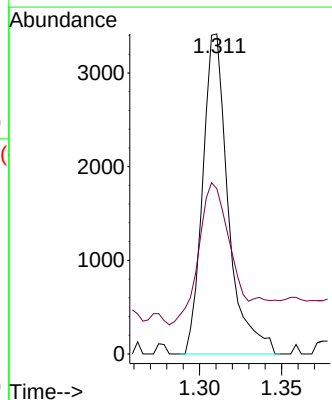
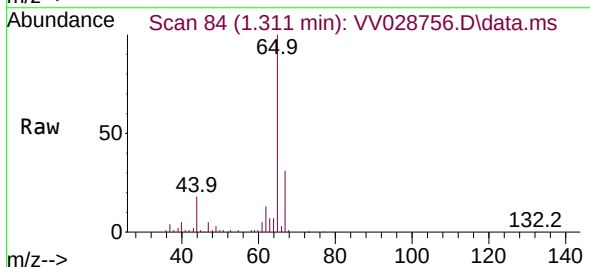
Instrument :
MSVOA_V
ClientSampleId :
BHA77DL

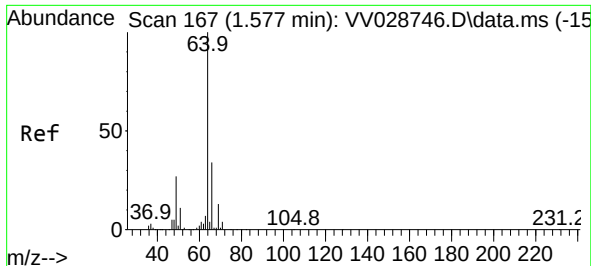
Tgt Ion: 50 Resp: 1287
Ion Ratio Lower Upper
50 100
52 33.9 21.8 40.6



#5
Vinyl chloride
Concen: 0.259 ug/L
RT: 1.311 min Scan# 84
Delta R.T. 0.006 min
Lab File: VV028756.D
Acq: 28 Oct 2022 14:55

Tgt Ion: 62 Resp: 3696
Ion Ratio Lower Upper
62 100
64 51.7 22.0 41.0#

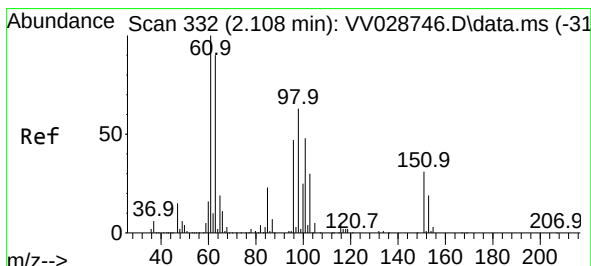
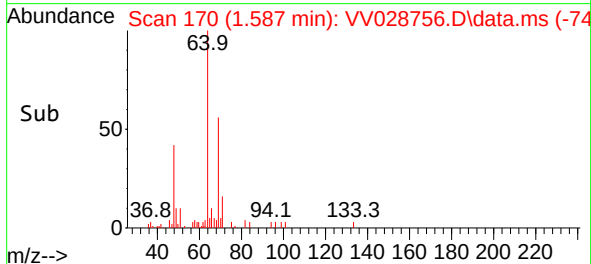
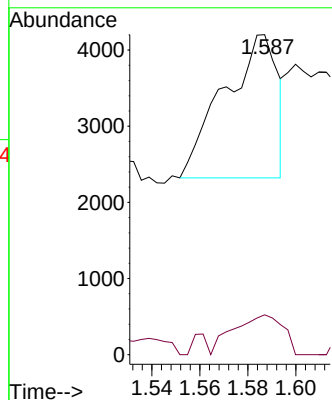
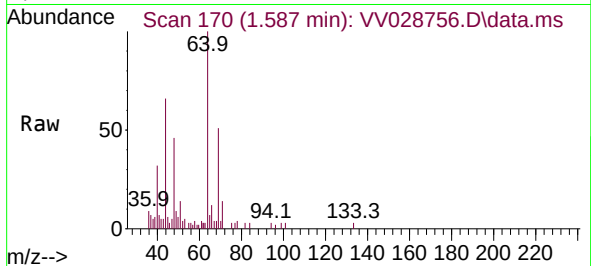




#8
Chloroethane
Concen: 0.300 ug/L
RT: 1.587 min Scan# 11
Delta R.T. 0.010 min
Lab File: VV028756.D
Acq: 28 Oct 2022 14:55

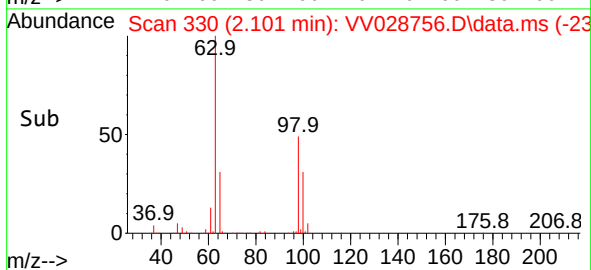
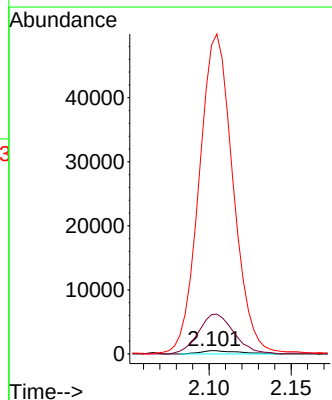
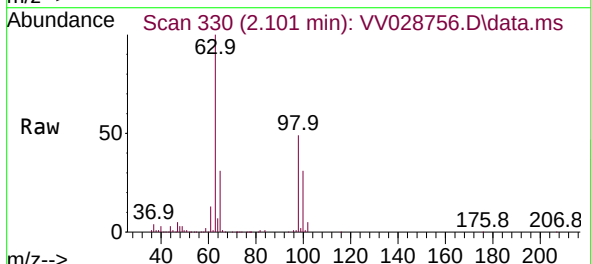
Instrument :
MSVOA_V
ClientSampleId :
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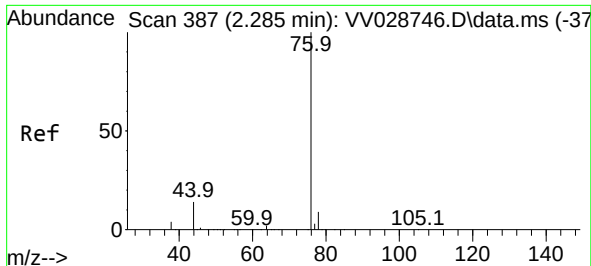
Tgt Ion: 64 Resp: 2914
Ion Ratio Lower Upper
64 100
66 12.4 23.9 44.5#



#12
1,1-Dichloroethene
Concen: 0.085 ug/L
RT: 2.101 min Scan# 330
Delta R.T. -0.006 min
Lab File: VV028756.D
Acq: 28 Oct 2022 14:55

Tgt Ion: 96 Resp: 854
Ion Ratio Lower Upper
96 100
61 1157.3 148.1 275.1#
63 9080.2 133.3 247.7#

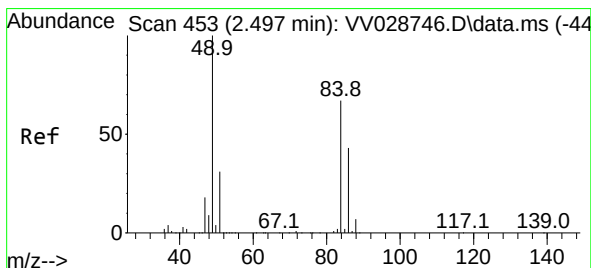
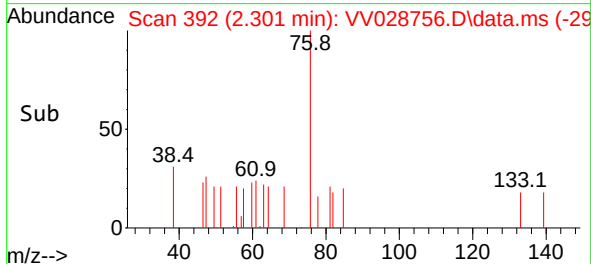
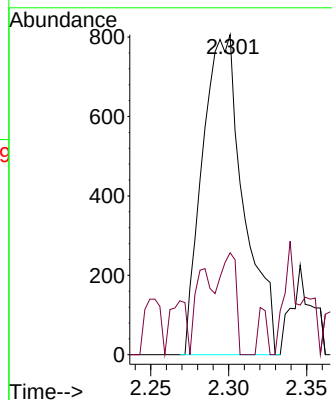
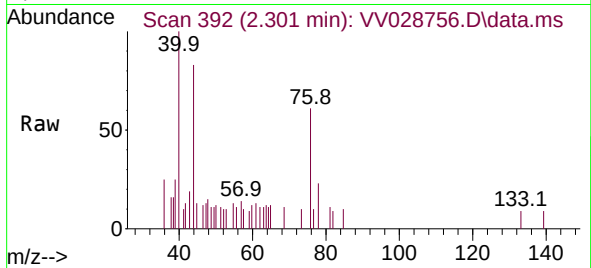




#14
Carbon disulfide
Concen: 0.064 ug/L
RT: 2.301 min Scan# 392
Delta R.T. 0.016 min
Lab File: VV028756.D
Acq: 28 Oct 2022 14:55

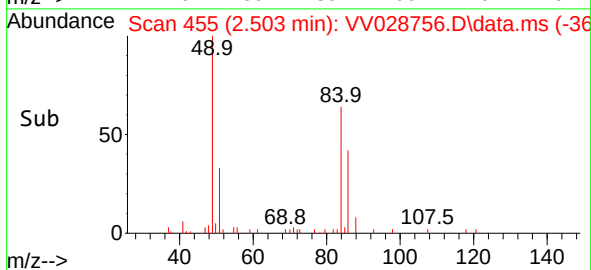
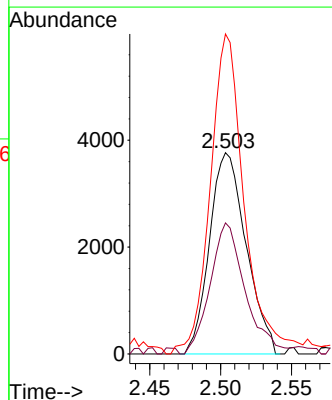
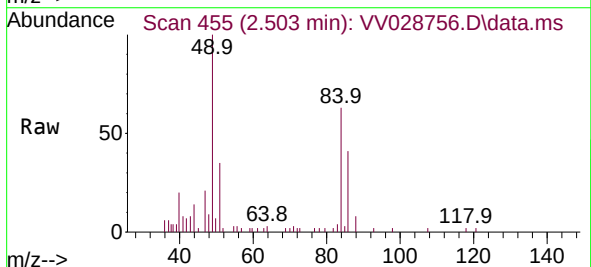
Instrument :
MSVOA_V
ClientSampleId :
BHA77DL

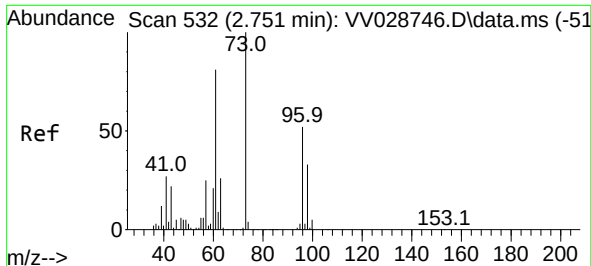
Tgt Ion: 76 Resp: 1483
Ion Ratio Lower Upper
76 100
78 31.9 7.1 10.7#



#16
Methylene chloride
Concen: 0.490 ug/L
RT: 2.503 min Scan# 455
Delta R.T. 0.006 min
Lab File: VV028756.D
Acq: 28 Oct 2022 14:55

Tgt Ion: 84 Resp: 6771
Ion Ratio Lower Upper
84 100
86 65.1 44.4 82.4
49 170.7 110.8 205.8

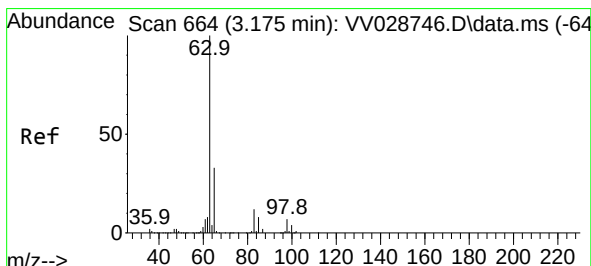
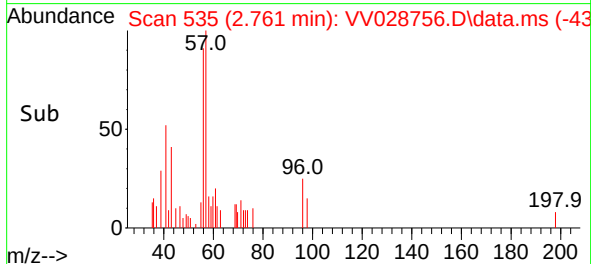
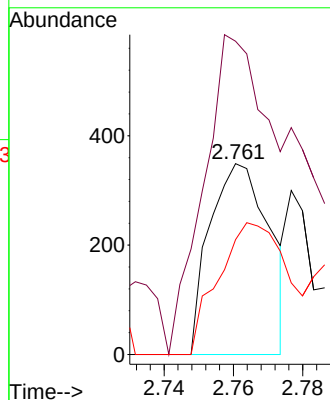
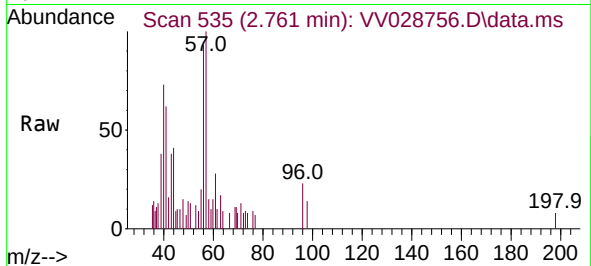




#18
trans-1,2-Dichloroethene
Concen: 0.041 ug/L
RT: 2.761 min Scan# 51
Delta R.T. 0.010 min
Lab File: VV028756.D
Acq: 28 Oct 2022 14:55

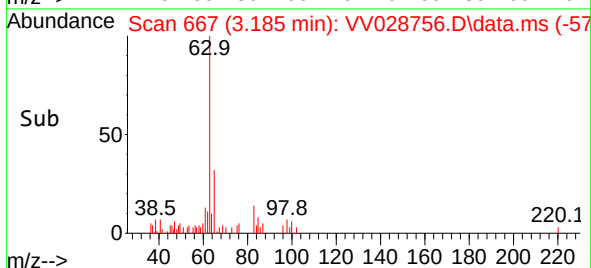
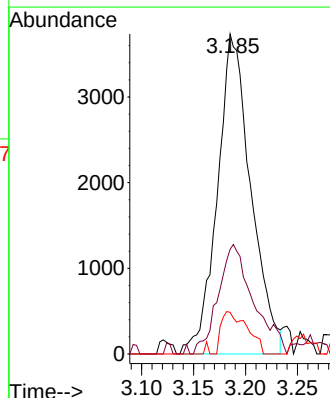
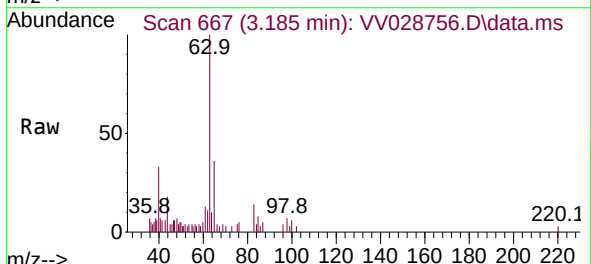
Instrument :
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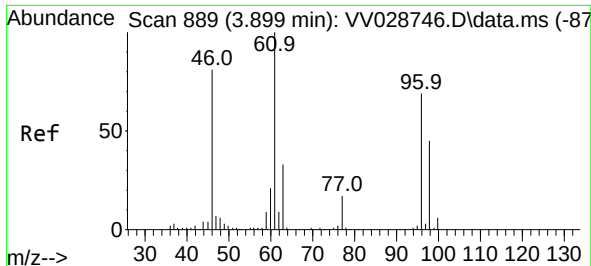
Tgt Ion: 96 Resp: 416
Ion Ratio Lower Upper
96 100
61 164.2 114.3 212.3
98 60.2 45.0 83.6



#19
1,1-Dichloroethane
Concen: 0.345 ug/L
RT: 3.185 min Scan# 667
Delta R.T. 0.010 min
Lab File: VV028756.D
Acq: 28 Oct 2022 14:55

Tgt Ion: 63 Resp: 8387
Ion Ratio Lower Upper
63 100
65 32.7 23.1 42.9
83 13.0 7.9 14.7





#22

cis-1,2-Dichloroethene

Concen: 2.658 ug/L

RT: 3.905 min Scan# 891

Delta R.T. 0.006 min

Lab File: VV028756.D

Acq: 28 Oct 2022 14:55

Instrument :

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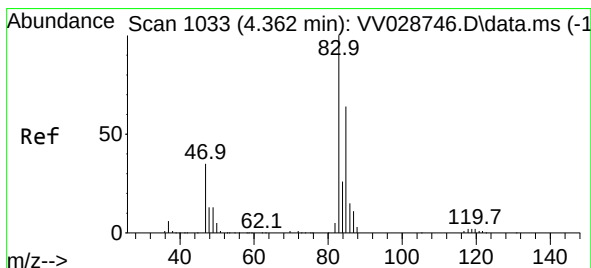
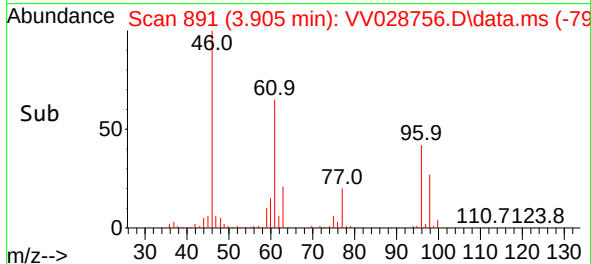
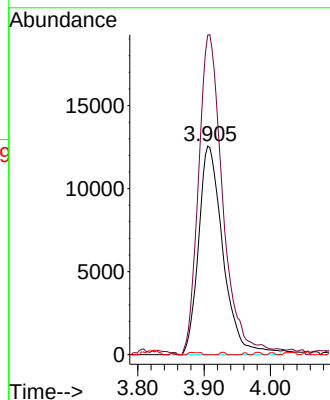
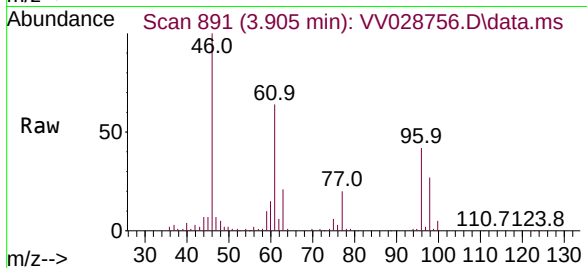
Tgt Ion: 96 Resp: 32136

Ion Ratio Lower Upper

96 100

61 153.2 101.4 188.2

68 0.0 0.5 0.9#



#25

Chloroform

Concen: 0.136 ug/L

RT: 4.368 min Scan# 1035

Delta R.T. 0.006 min

Lab File: VV028756.D

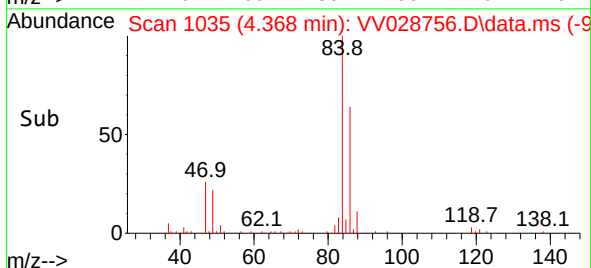
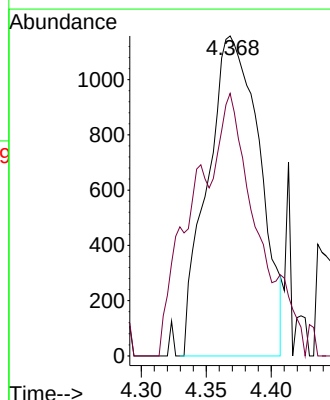
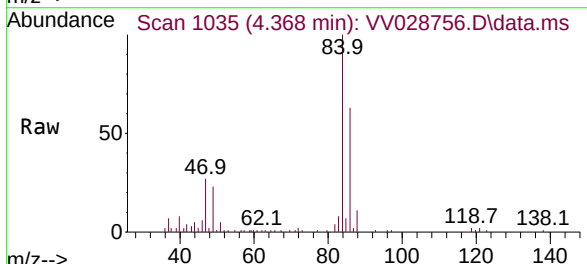
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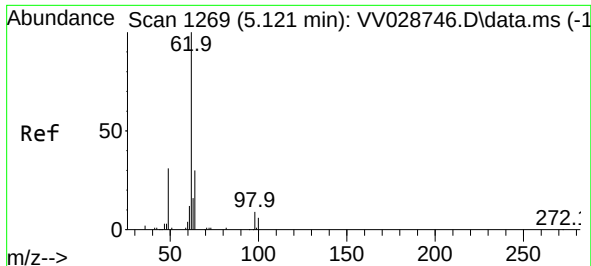
Tgt Ion: 83 Resp: 3232

Ion Ratio Lower Upper

83 100

85 82.0 44.1 81.9#





#27

1,2-Dichloroethane

Concen: 1.232 ug/L

RT: 5.095 min Scan# 11

Delta R.T. -0.026 min

Lab File: VV028756.D

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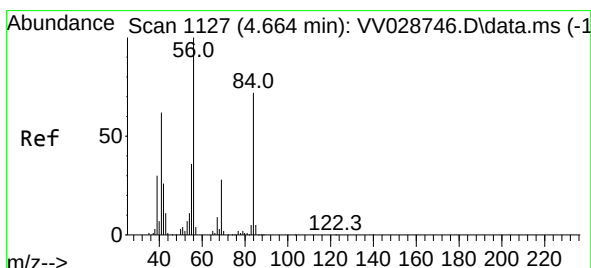
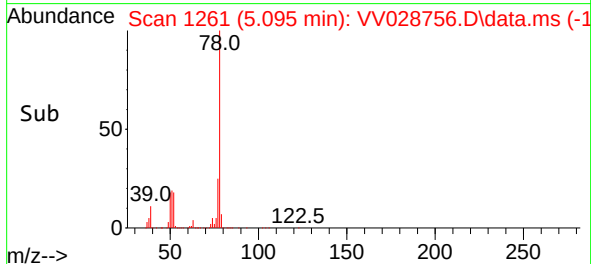
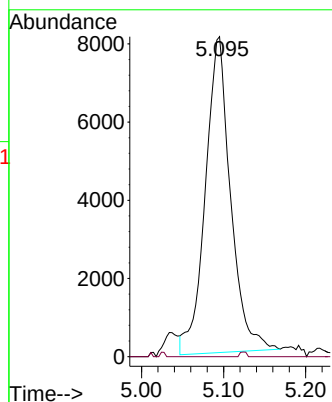
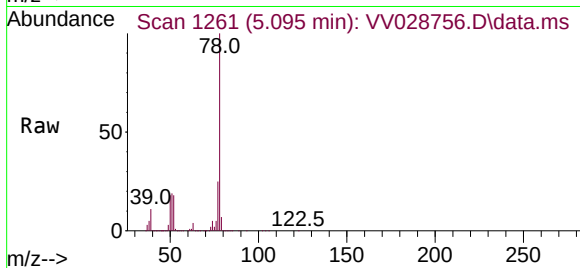
BHA77DL

Tgt Ion: 62 Resp: 17243

Ion Ratio Lower Upper

62 100

98 0.0 6.6 9.8#



#30

Cyclohexane

Concen: 0.106 ug/L

RT: 4.680 min Scan# 1132

Delta R.T. 0.016 min

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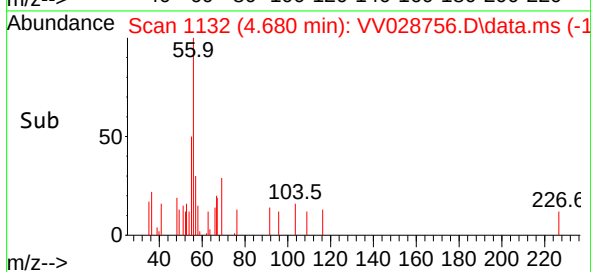
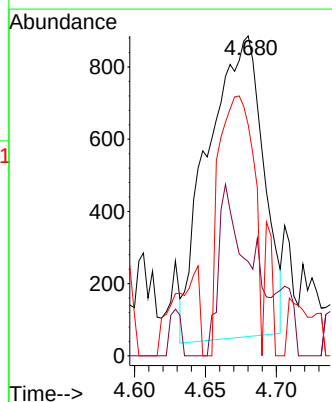
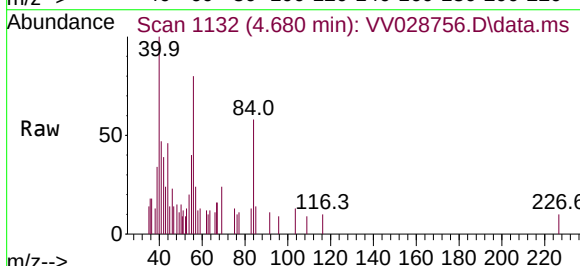
Tgt Ion: 56 Resp: 2269

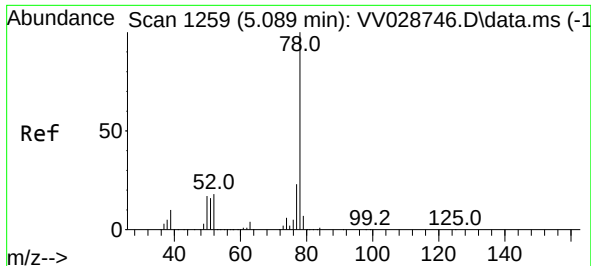
Ion Ratio Lower Upper

56 100

69 31.9 22.6 34.0

84 53.3 60.4 90.6#

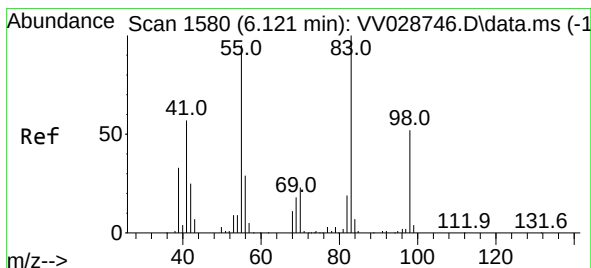
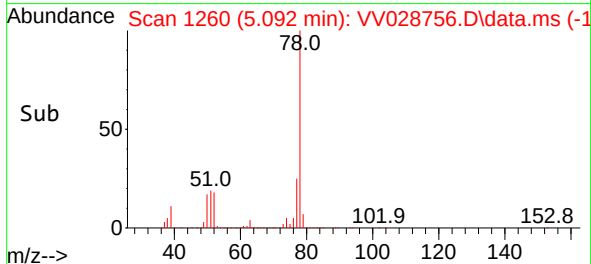
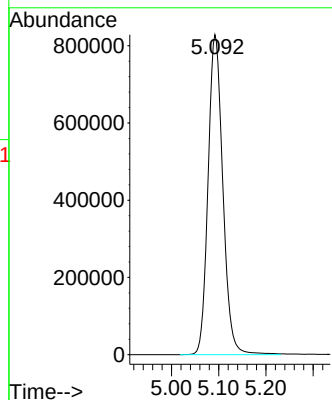
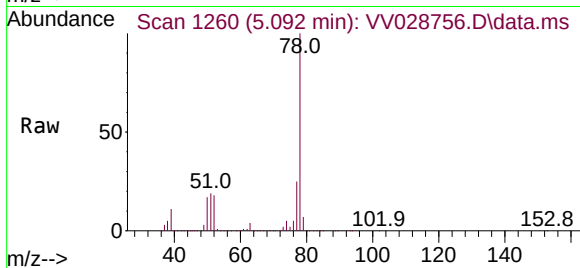




#33
Benzene
Concen: 35.259 ug/L
RT: 5.092 min Scan# 11
Delta R.T. 0.003 min
Lab File: VV028756.D
Acq: 28 Oct 2022 14:55

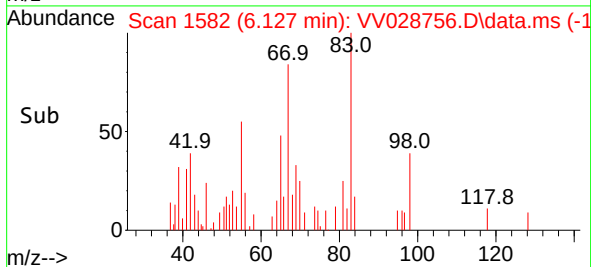
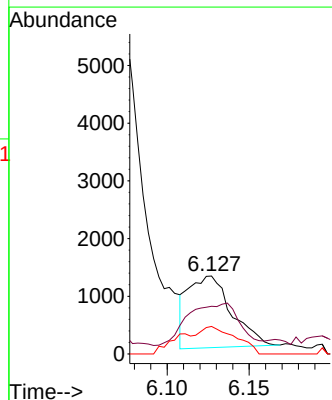
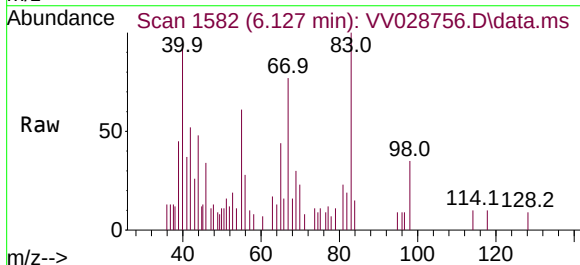
Instrument :
MSVOA_V
ClientSampleId :
BHA77DL

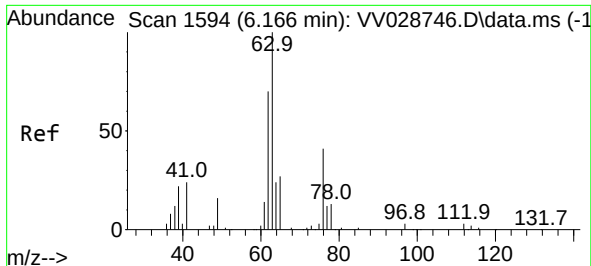
Tgt Ion: 78 Resp: 1801624



#35
Methylcyclohexane
Concen: 0.131 ug/L
RT: 6.127 min Scan# 1582
Delta R.T. 0.006 min
Lab File: VV028756.D
Acq: 28 Oct 2022 14:55

Tgt Ion: 83 Resp: 2282
Ion Ratio Lower Upper
83 100
55 70.3 70.0 105.0
98 33.4 35.6 53.4#





#37

1,2-Dichloropropane

Concen: 0.658 ug/L

RT: 6.063 min Scan# 1

Delta R.T. -0.103 min

Lab File: VV028756.D

Acq: 28 Oct 2022 14:55

Instrument :

MSVOA_V

ClientSampleId :

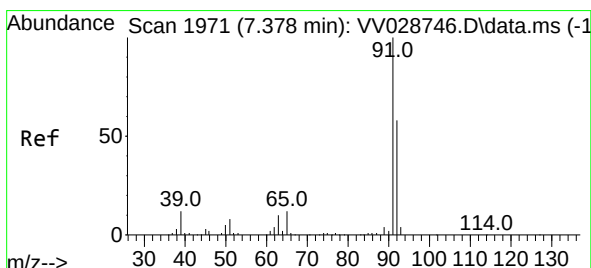
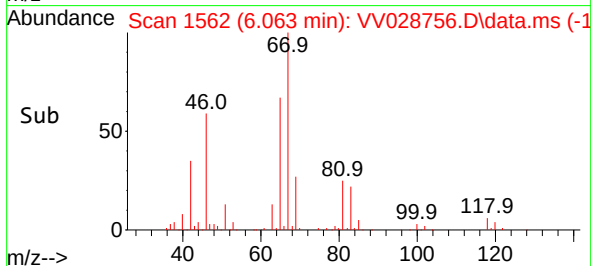
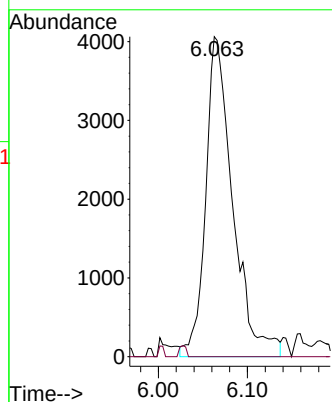
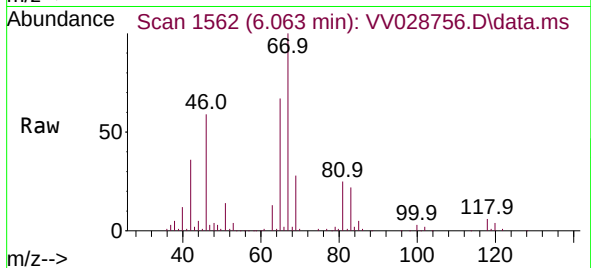
BHA77DL

Tgt Ion: 63 Resp: 8584

Ion Ratio Lower Upper

63 100

112 0.9 3.4 5.2#



#42

Toluene

Concen: 15.388 ug/L

RT: 7.381 min Scan# 1972

Delta R.T. 0.003 min

Lab File: VV028756.D

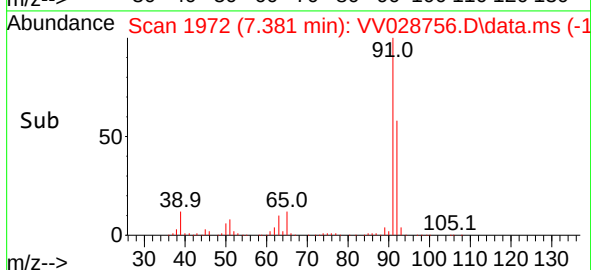
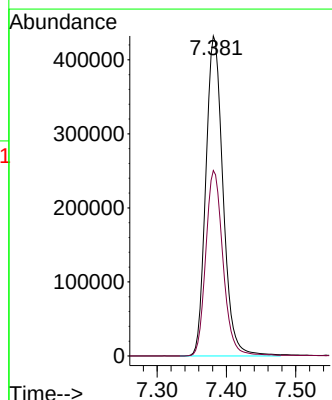
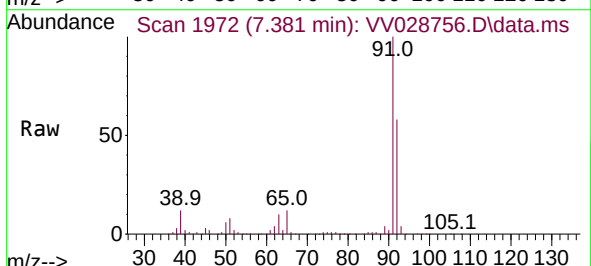
Acq: 28 Oct 2022 14:55

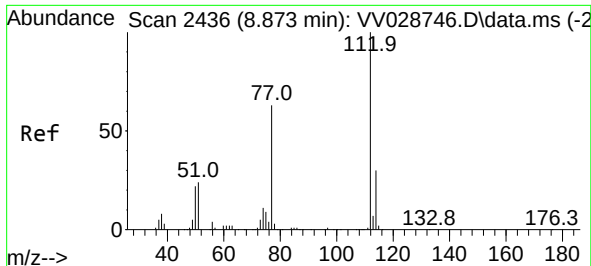
Tgt Ion: 91 Resp: 745547

Ion Ratio Lower Upper

91 100

92 58.0 40.5 75.3





#51

Chlorobenzene

Concen: 1.457 ug/L

RT: 8.876 min Scan# 2436

Delta R.T. 0.003 min

Lab File: VV028756.D

Acq: 28 Oct 2022 14:55

Instrument :

MSVOA_V

ClientSampleId :

BHA77DL

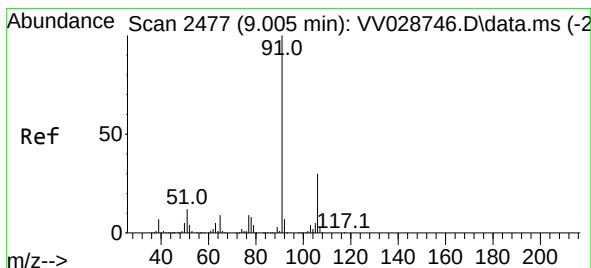
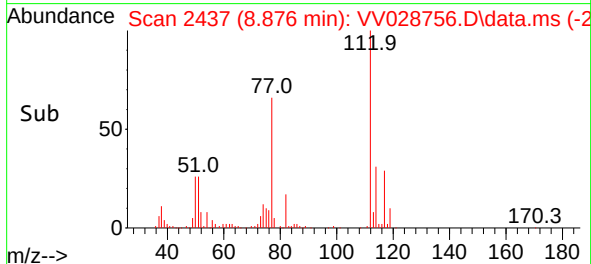
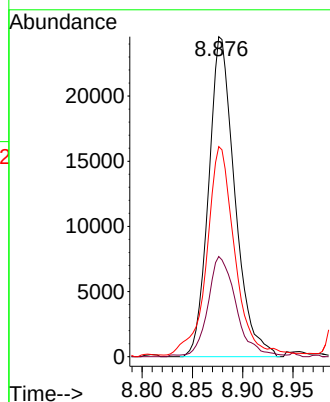
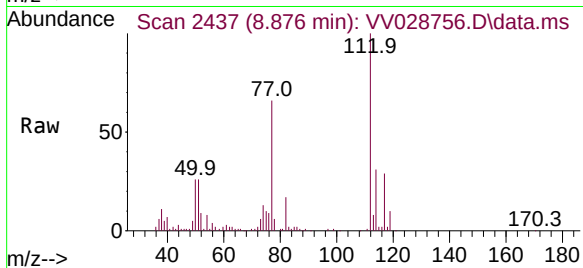
Tgt Ion:112 Resp: 44457

Ion Ratio Lower Upper

112 100

114 31.3 22.0 41.0

77 65.7 50.0 75.0



#52

Ethylbenzene

Concen: 6.788 ug/L

RT: 9.008 min Scan# 2478

Delta R.T. 0.003 min

Lab File: VV028756.D

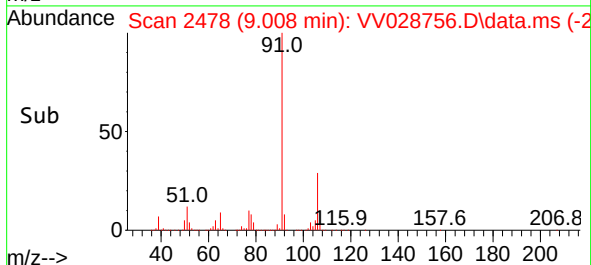
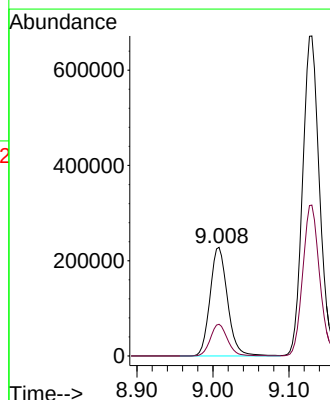
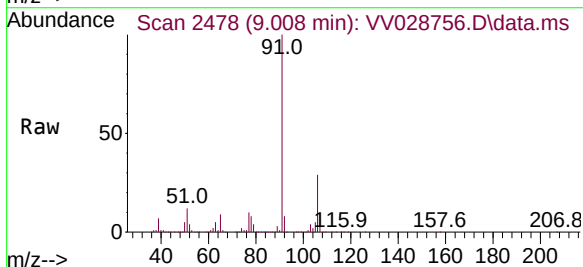
Acq: 28 Oct 2022 14:55

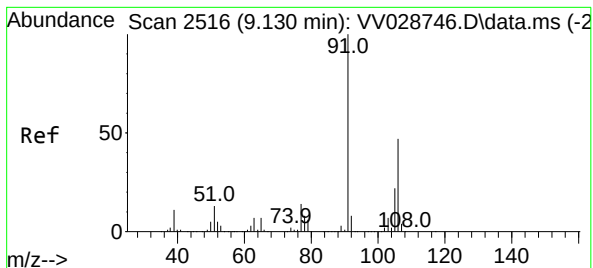
Tgt Ion: 91 Resp: 365495

Ion Ratio Lower Upper

91 100

106 29.2 21.3 39.6





#53

m,p-Xylene

Concen: 25.512 ug/L

RT: 9.130 min Scan# 21

Delta R.T. -0.000 min

Lab File: VV028756.D

Acq: 28 Oct 2022 14:55

Instrument :

MSVOA_V

ClientSampleId :

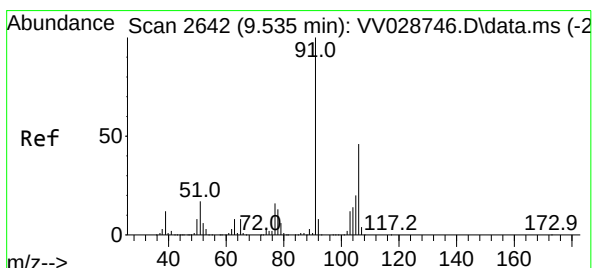
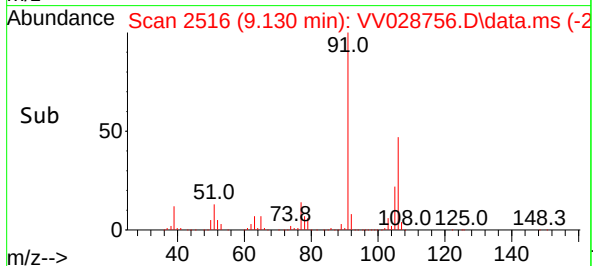
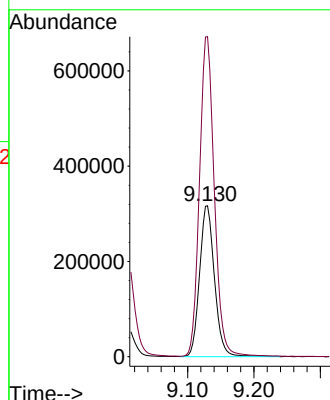
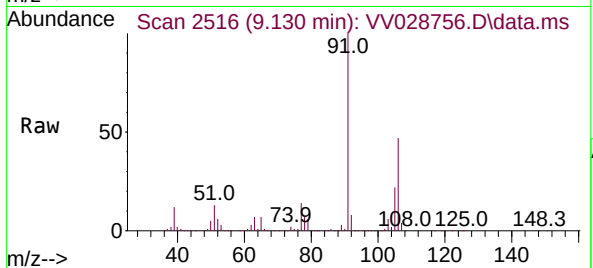
BHA77DL

Tgt Ion:106 Resp: 495994

Ion Ratio Lower Upper

106 100

91 212.0 145.5 270.1



#54

o-Xylene

Concen: 1.628 ug/L

RT: 9.538 min Scan# 2643

Delta R.T. 0.003 min

Lab File: VV028756.D

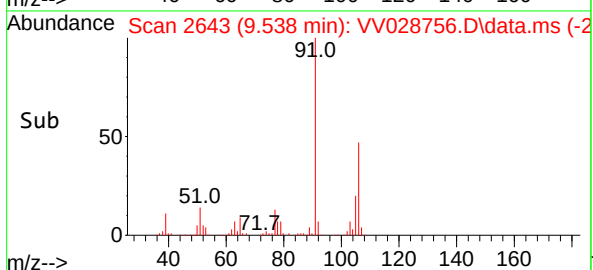
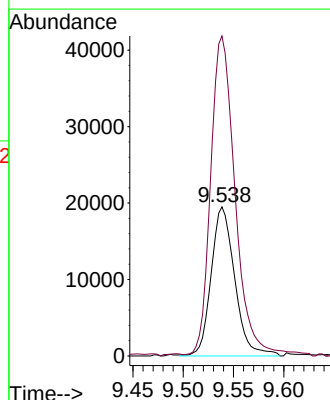
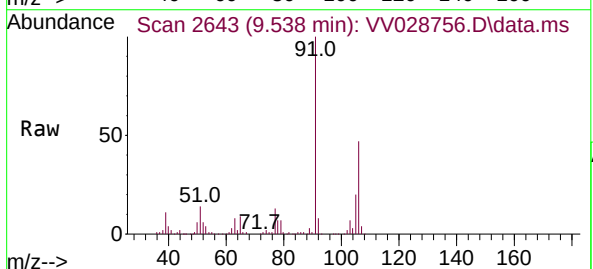
Acq: 28 Oct 2022 14:55

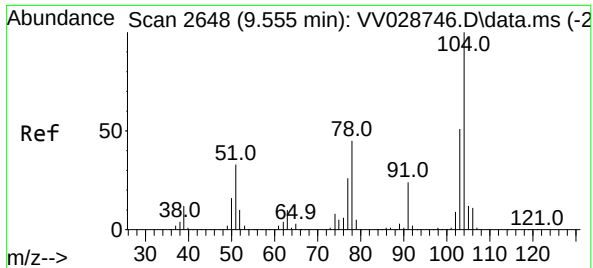
Tgt Ion:106 Resp: 31843

Ion Ratio Lower Upper

106 100

91 214.7 159.0 295.4

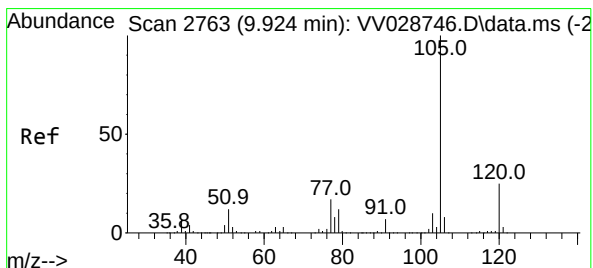
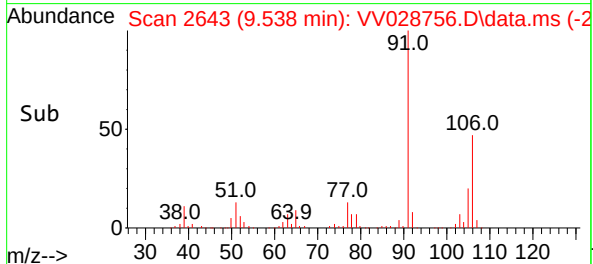
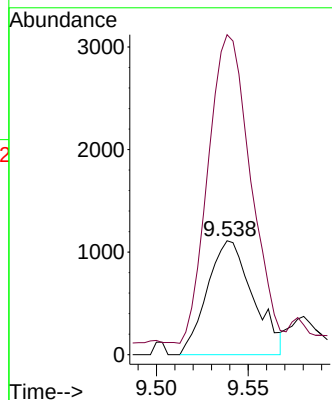
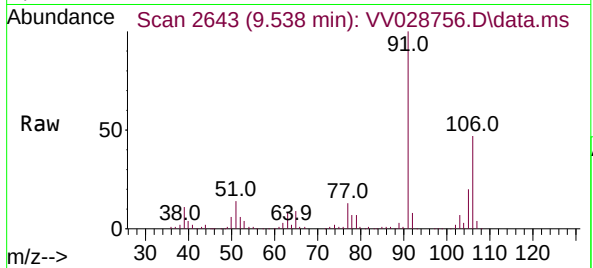




#55
Styrene
Concen: 0.058 ug/L
RT: 9.538 min Scan# 21
Delta R.T. -0.016 min
Lab File: VV028756.D
Acq: 28 Oct 2022 14:55

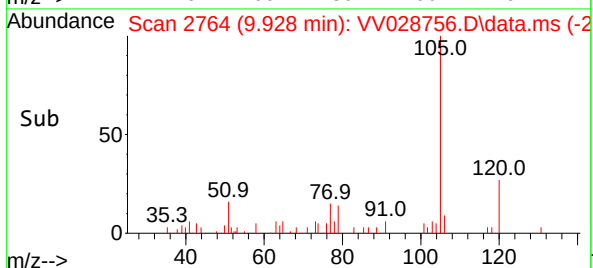
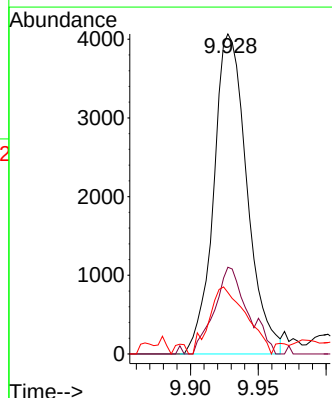
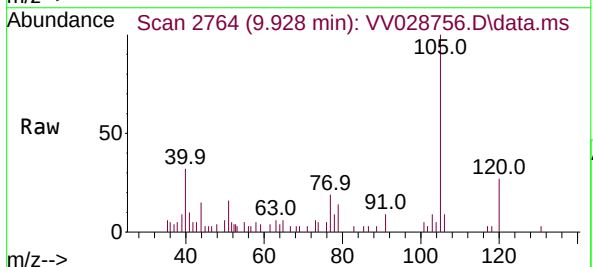
Instrument :
MSVOA_V
ClientSampleId :
BHA77DL

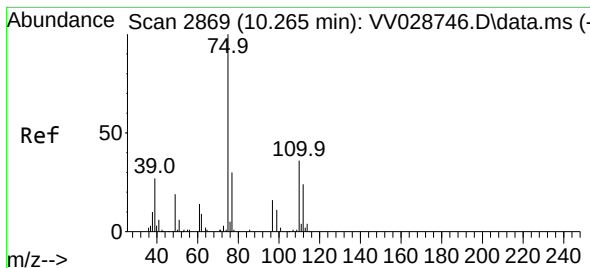
Tgt Ion:104 Resp: 1927
Ion Ratio Lower Upper
104 100
78 281.1 32.8 61.0#



#60
Isopropylbenzene
Concen: 0.138 ug/L
RT: 9.928 min Scan# 2764
Delta R.T. 0.003 min
Lab File: VV028756.D
Acq: 28 Oct 2022 14:55

Tgt Ion:105 Resp: 6935
Ion Ratio Lower Upper
105 100
120 27.2 20.1 30.1
77 0.0 13.4 20.0#





#61

1,2,3-Trichloropropane

Concen: 0.072 ug/L

RT: 10.532 min Scan# 2952

Delta R.T. 0.267 min

Lab File: VV028756.D

Acq: 28 Oct 2022 14:55

Instrument :

MSVOA_V

ClientSampleId :

BHA77DL

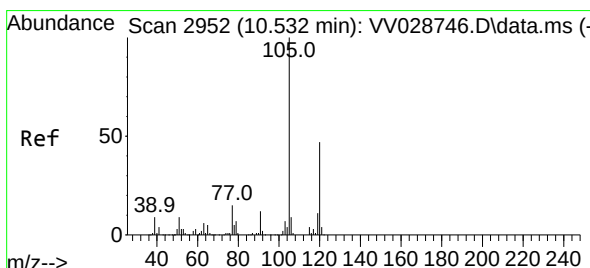
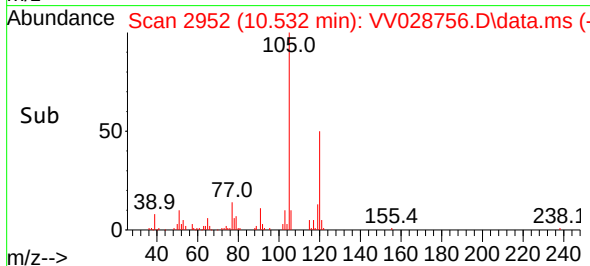
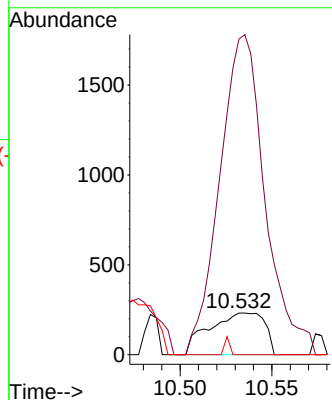
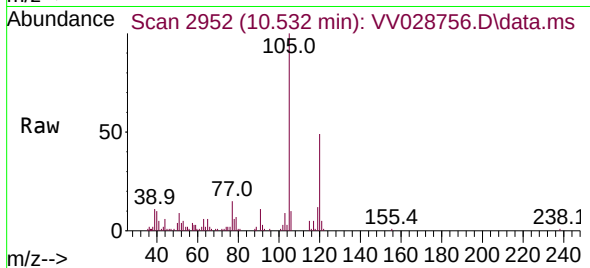
Tgt Ion: 75 Resp: 489

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

110 3.9 27.9 41.9#



#62

1,3,5-Trimethylbenzene

Concen: 1.259 ug/L

RT: 10.532 min Scan# 2952

Delta R.T. -0.000 min

Lab File: VV028756.D

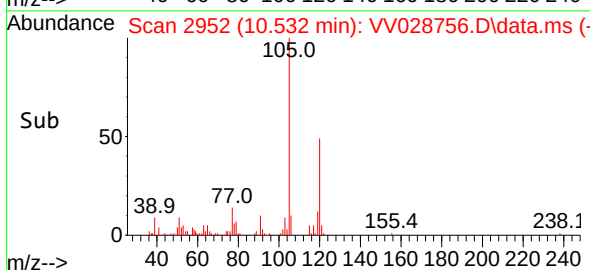
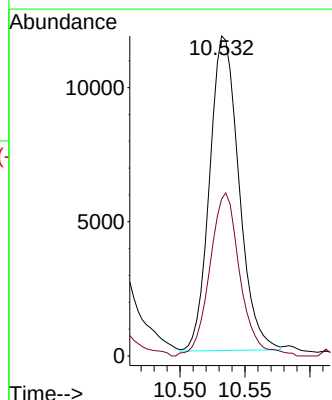
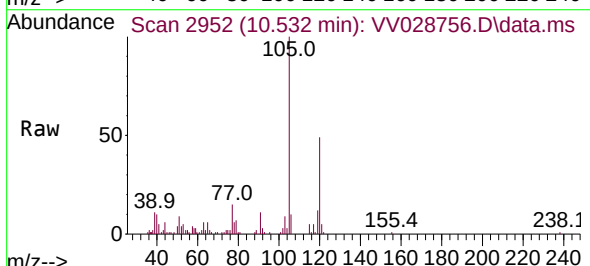
Acq: 28 Oct 2022 14:55

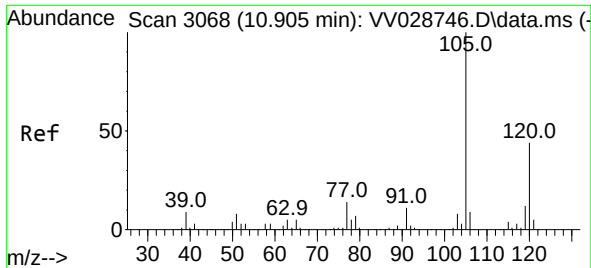
Tgt Ion:105 Resp: 18412

Ion Ratio Lower Upper

105 100

120 53.4 38.3 57.5

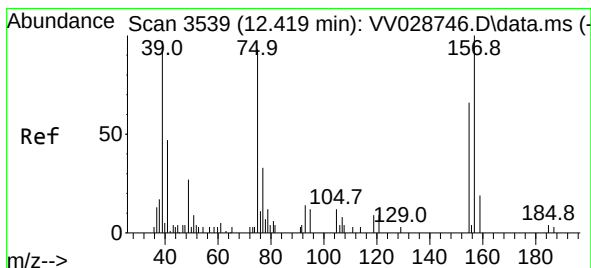
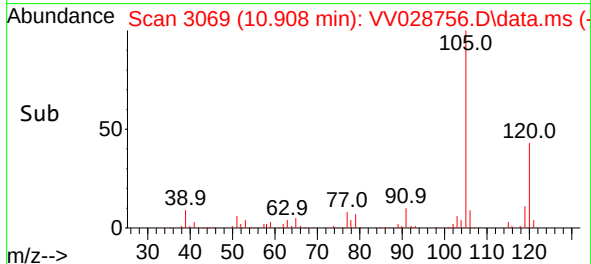
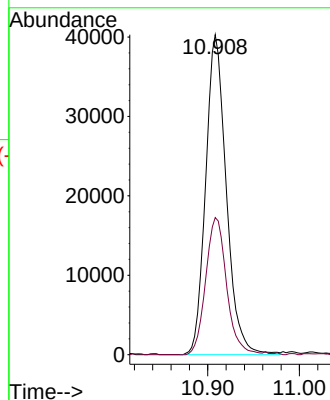
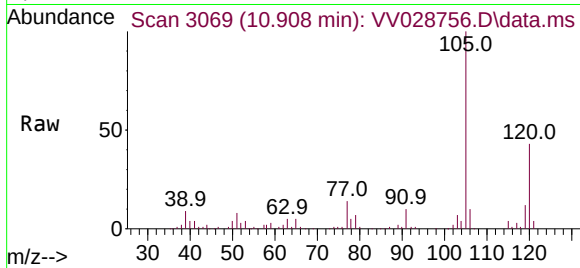




#63
 1,2,4-Trimethylbenzene
 Concen: 1.555 ug/L
 RT: 10.908 min Scan# 3069
 Delta R.T. 0.003 min
 Lab File: VV028756.D
 Acq: 28 Oct 2022 14:55

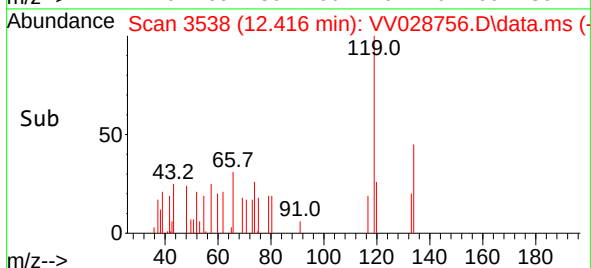
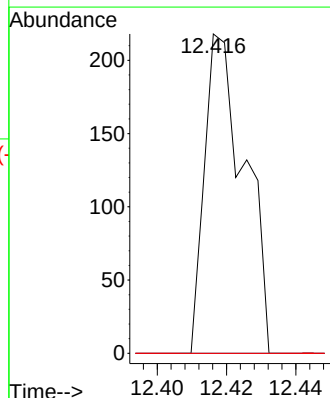
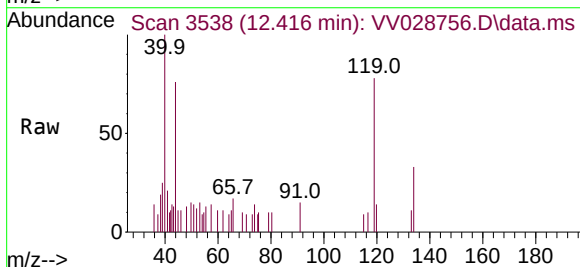
Instrument :
 MSVOA_V
 ClientSampleId :
 BHA77DL

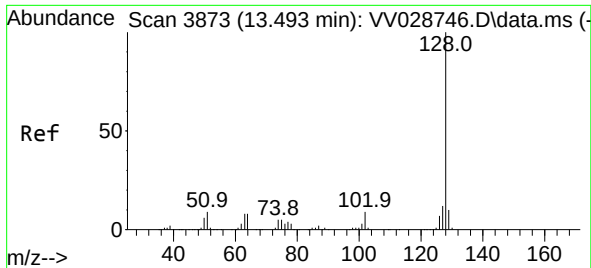
Tgt Ion:105 Resp: 62958
 Ion Ratio Lower Upper
 105 100
 120 43.4 36.2 54.2



#68
 1,2-Dibromo-3-chloropropane
 Concen: 0.124 ug/L
 RT: 12.416 min Scan# 3538
 Delta R.T. -0.003 min
 Lab File: VV028756.D
 Acq: 28 Oct 2022 14:55

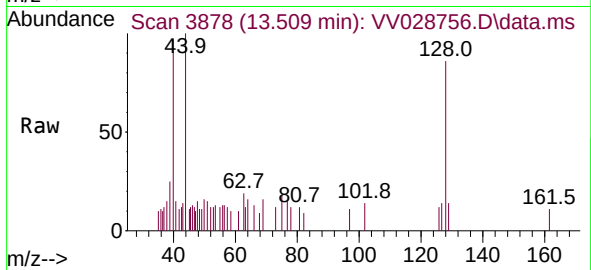
Tgt Ion: 75 Resp: 175
 Ion Ratio Lower Upper
 75 100
 155 0.0 58.2 87.2#
 157 0.0 71.5 107.3#





#71
Naphthalene
Concen: 0.090 ug/L
RT: 13.509 min Scan# 3878
Delta R.T. 0.016 min
Lab File: VV028756.D
Acq: 28 Oct 2022 14:55

Instrument :
MSVOA_V
ClientSampleId :
BHA77DL



Tgt Ion:128 Resp: 1917

Ion	Ratio	Lower	Upper
128	100		
129	6.9	8.9	13.3#
127	5.4	10.2	15.4#

