

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW120621\
 Data File : VW023796.D
 Acq On : 06 Dec 2021 14:33
 Operator : SY/MD
 Sample : M4979-04
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Dec 07 05:30:36 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR112321WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Dec 02 02:08:23 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	137596	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.853	117	134970	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	77264	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.307	65	5446	0.482	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	9.600%#
7) Chloroethane-d5	1.568	69	8078	0.910	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	18.200%#
11) 1,1-Dichloroethene-d2	2.108	63	5213	0.262	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	5.200%#
20) 2-Butanone-d5	3.886	46	96127	70.791	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	141.580%#
24) Chloroform-d	4.352	84	36935	1.878	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	37.600%#
26) 1,2-Dichloroethane-d4	5.037	65	19627	2.136	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	42.800%#
32) Benzene-d6	5.053	84	28544	0.776	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	15.600%#
36) 1,2-Dichloropropane-d6	6.072	67	17227	1.671	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	33.400%#
41) Toluene-d8	7.320	98	25419	0.740	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	14.800%#
43) trans-1,3-Dichloroprop...	7.628	79	7394	1.780	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	35.600%#
46) 2-Hexanone-d5	8.088	63	81786	59.247	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	118.500%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	28857	3.891	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	77.800%
66) 1,2-Dichlorobenzene-d4	11.625	152	22848	1.673	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	33.400%#
Target Compounds						
					Qvalue	
5) Vinyl chloride	1.310	62	16302	1.368	ug/L	97
8) Chloroethane	1.416	64	86702	11.479	ug/L #	54
13) Acetone	2.182	43	10963	8.972	ug/L	92
14) Carbon disulfide	2.297	76	11154	0.360	ug/L	95
15) Methyl Acetate	2.532	43	183259	66.078	ug/L #	50
18) trans-1,2-Dichloroethene	2.764	96	5578	0.531	ug/L	98
21) 2-Butanone	4.140	43	1367	0.884	ug/L	80
22) cis-1,2-Dichloroethene	3.908	96	354190	35.173	ug/L	100
25) Chloroform	4.407	83	59353	3.017	ug/L #	24
30) Cyclohexane	4.677	56	206749	14.046	ug/L	97
33) Benzene	5.104	78	40407	1.050	ug/L	100
34) Trichloroethene	5.915	95	169478	16.442	ug/L	98
35) Methylcyclohexane	6.133	83	154424	9.610	ug/L	95
37) 1,2-Dichloropropane	6.130	63	1840	0.201	ug/L #	71
38) Bromodichloromethane	6.564	83	40227	3.240	ug/L #	28
40) 4-Methyl-2-pentanone	7.291	43	13257	3.036	ug/L #	21
42) Toluene	7.387	91	387083	9.276	ug/L	97
45) 1,1,2-Trichloroethane	7.789	97	48285	7.624	ug/L #	21
47) Tetrachloroethene	7.976	164	106118	11.311	ug/L	99

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

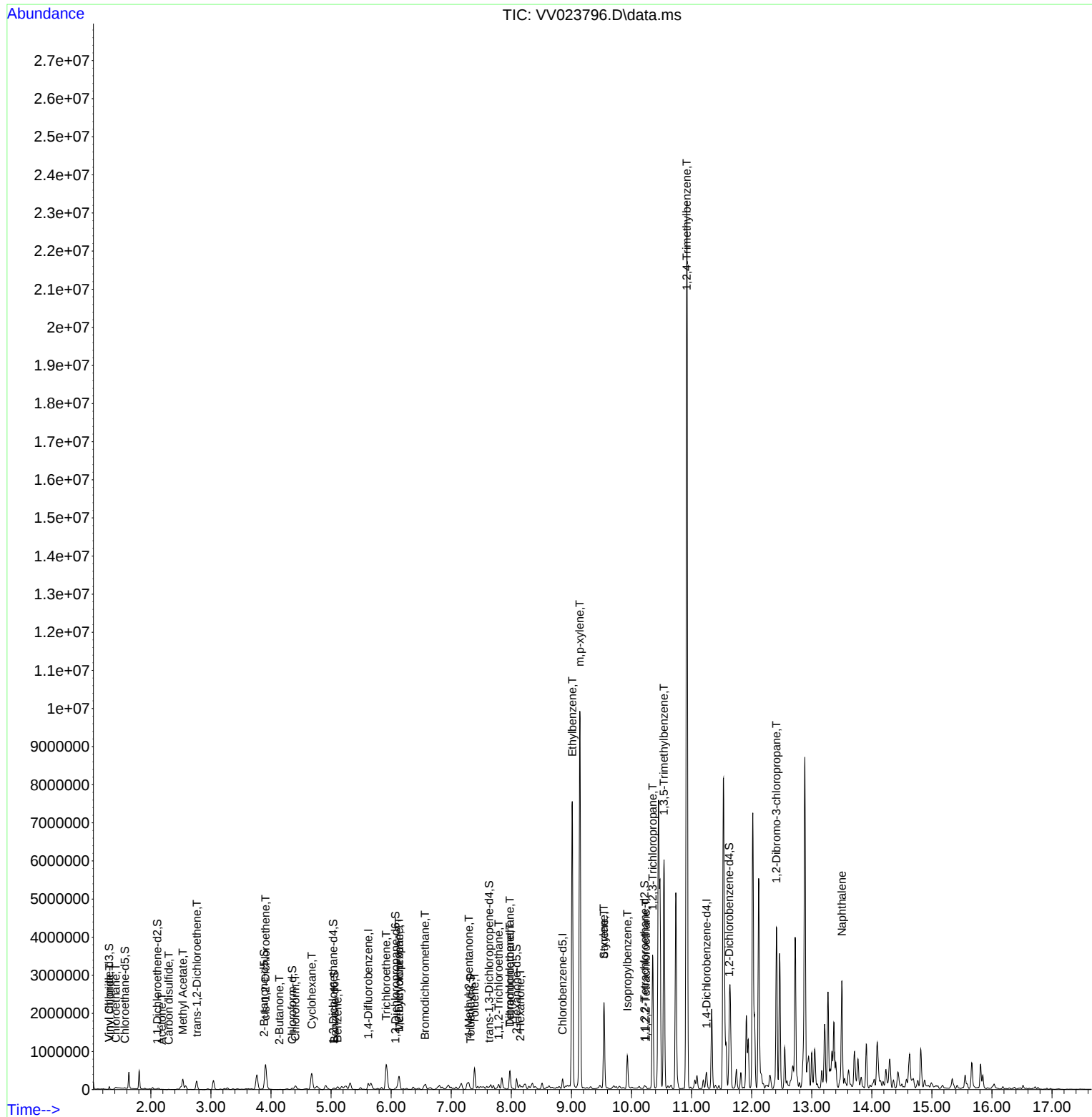
48) 2-Hexanone	8.149	43	3272	1.014	ug/L #	64
49) Dibromochloromethane	7.976	129	94106	10.843	ug/L #	11
52) Ethylbenzene	9.014	91	5079319	116.444	ug/L	99
53) m,p-xylene	9.140	106	2680371	154.393	ug/L	100
54) o-xylene	9.541	106	585717	35.477	ug/L	99
55) Styrene	9.545	104	30616	1.101	ug/L #	1
57) 1,1,2,2-Tetrachloroethane	10.242	83	4488	0.637	ug/L #	36
60) Isopropylbenzene	9.931	105	535995	11.618	ug/L #	67
61) 1,2,3-Trichloropropane	10.352	75	16344	2.983	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.541	105	3113953	81.116	ug/L	100
63) 1,2,4-Trimethylbenzene	10.921	105	11882535	313.002	ug/L	95
68) 1,2-Dibromo-3-chloropr...	12.413	75	17702	16.268	ug/L #	1
71) Naphthalene	13.503	128	2083825	108.366	ug/L	99

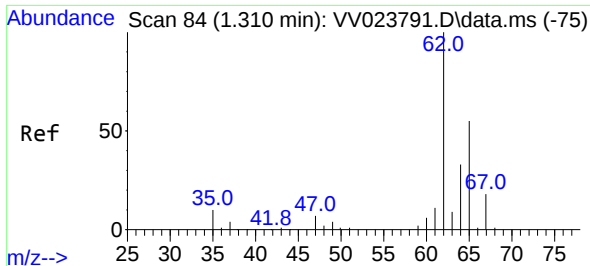
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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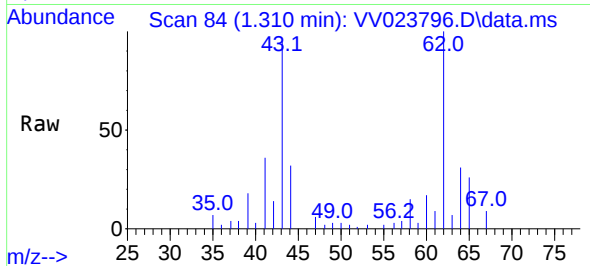
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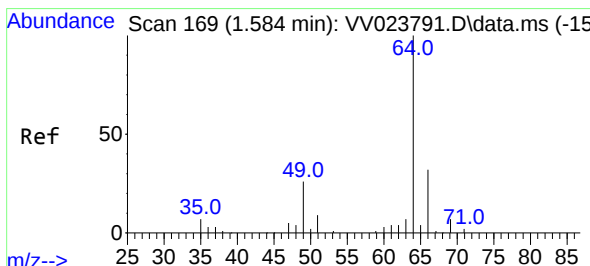
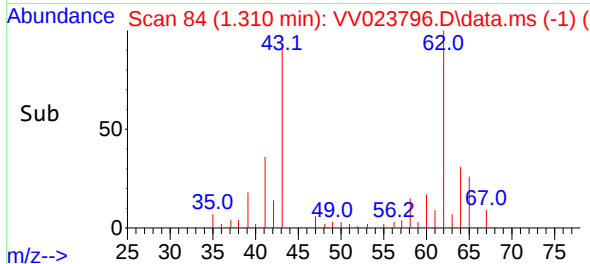
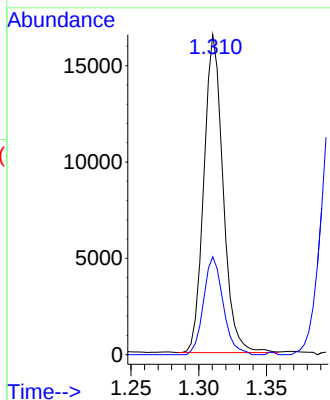


#5
 Vinyl chloride
 Concen: 1.368 ug/L
 RT: 1.310 min Scan# 84
 Delta R.T. -0.000 min
 Lab File: VV023796.D
 Acq: 06 Dec 2021 14:33

Instrument :
 MSVOA_V
 ClientSampleId :

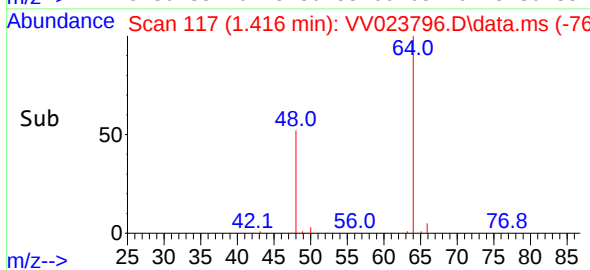
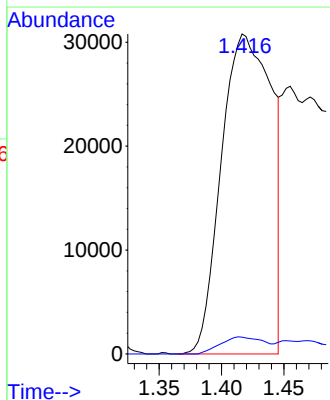
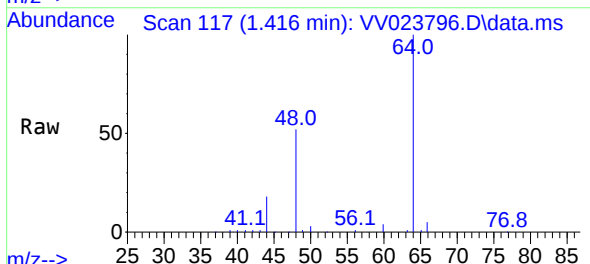


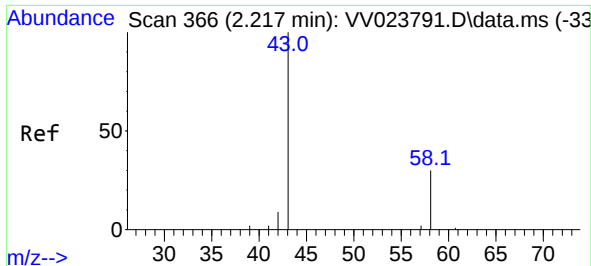
Tgt Ion: 62 Resp: 16302
 Ion Ratio Lower Upper
 62 100
 64 30.6 22.4 41.6



#8
 Chloroethane
 Concen: 11.479 ug/L
 RT: 1.416 min Scan# 117
 Delta R.T. -0.167 min
 Lab File: VV023796.D
 Acq: 06 Dec 2021 14:33

Tgt Ion: 64 Resp: 86702
 Ion Ratio Lower Upper
 64 100
 66 5.2 21.4 39.8#





#13

Acetone

Concen: 8.972 ug/L

RT: 2.182 min Scan# 31

Delta R.T. -0.042 min

Lab File: VV023796.D

Acq: 06 Dec 2021 14:33

Instrument :

MSVOA_V

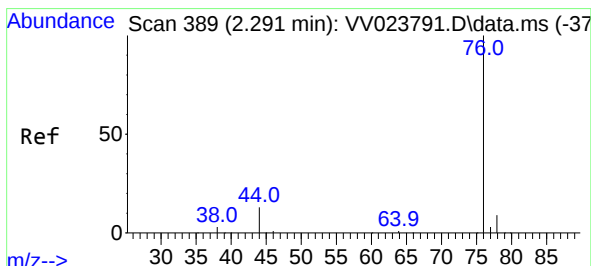
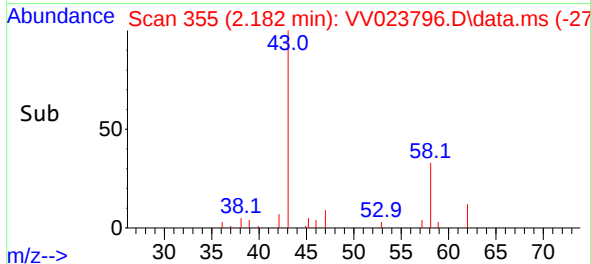
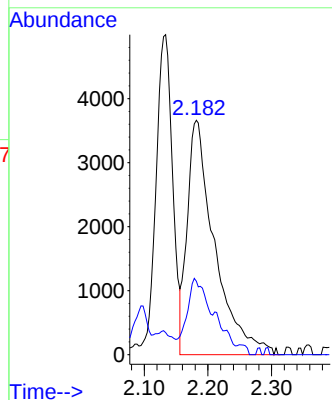
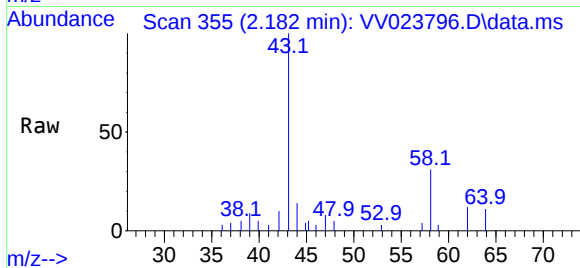
ClientSampleId :

Tgt Ion: 43 Resp: 10963

Ion Ratio Lower Upper

43 100

58 16.9 0.0 41.4



#14

Carbon disulfide

Concen: 0.360 ug/L

RT: 2.297 min Scan# 391

Delta R.T. 0.003 min

Lab File: VV023796.D

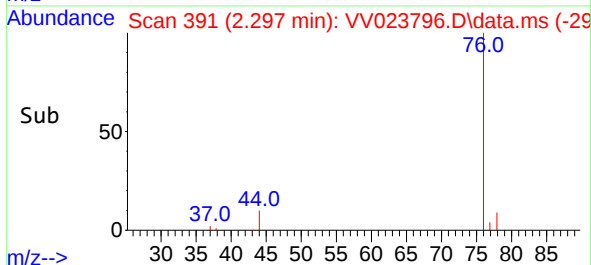
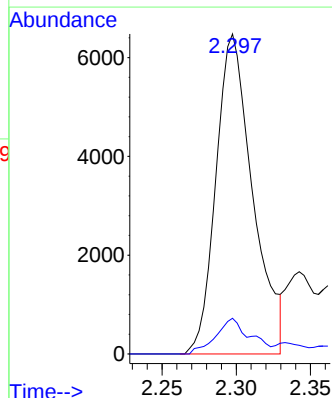
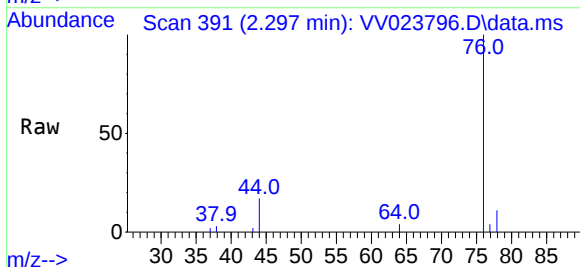
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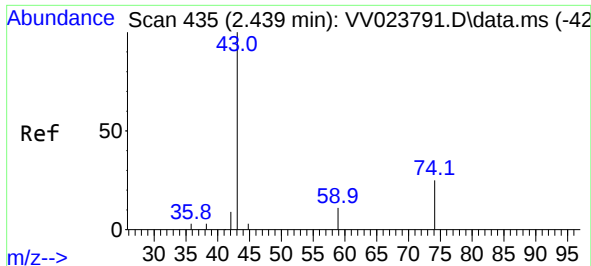
Tgt Ion: 76 Resp: 11154

Ion Ratio Lower Upper

76 100

78 11.2 7.5 11.3

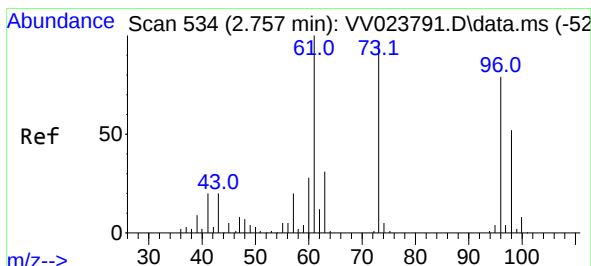
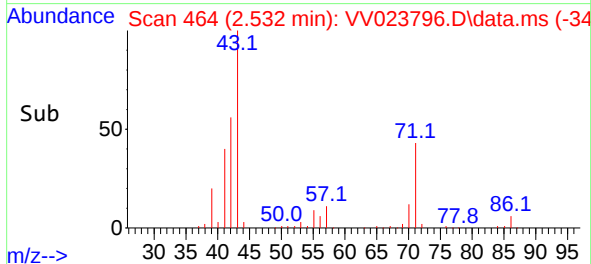
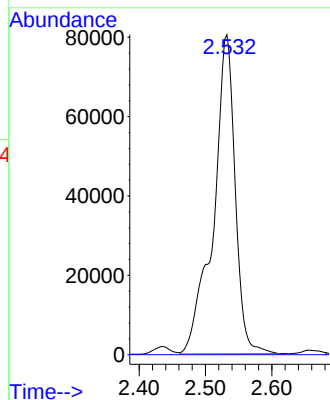
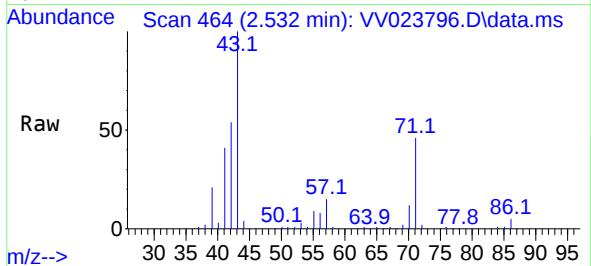




#15
Methyl Acetate
Concen: 66.078 ug/L
RT: 2.532 min Scan# 41
Delta R.T. 0.090 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

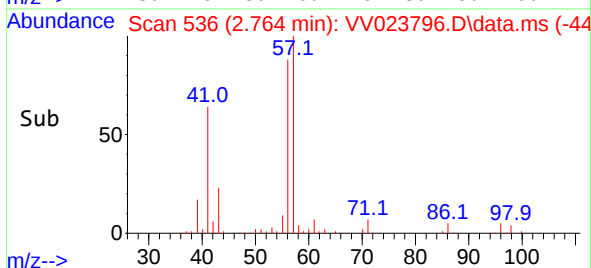
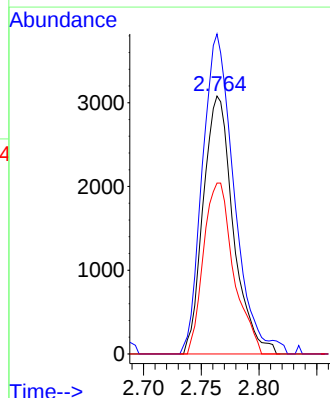
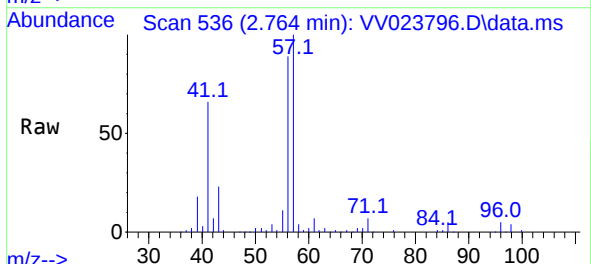
Instrument :
MSVOA_V
ClientSampleId :

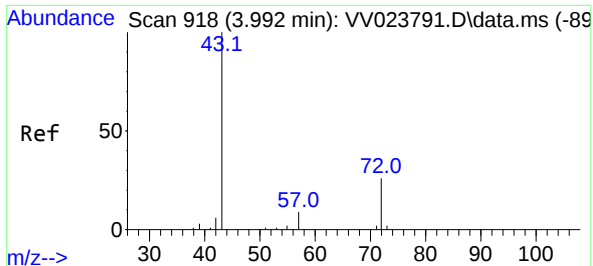
Tgt Ion: 43 Resp: 183259
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#18
trans-1,2-Dichloroethene
Concen: 0.531 ug/L
RT: 2.764 min Scan# 536
Delta R.T. 0.006 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

Tgt Ion: 96 Resp: 5578
Ion Ratio Lower Upper
96 100
61 124.1 88.2 163.8
98 66.3 44.9 83.5





#21

2-Butanone

Concen: 0.884 ug/L

RT: 4.140 min Scan# 918

Delta R.T. 0.138 min

Lab File: VV023796.D

Acq: 06 Dec 2021 14:33

Instrument :

MSVOA_V

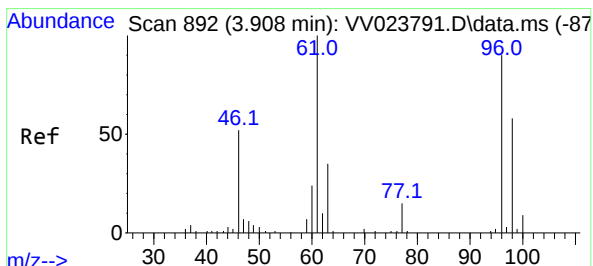
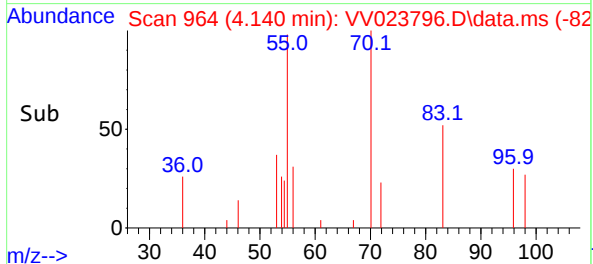
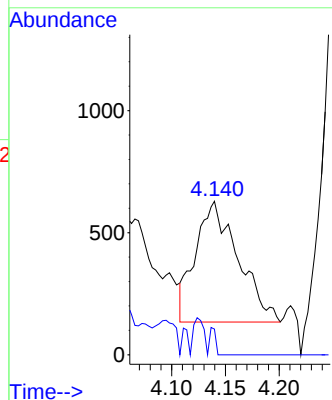
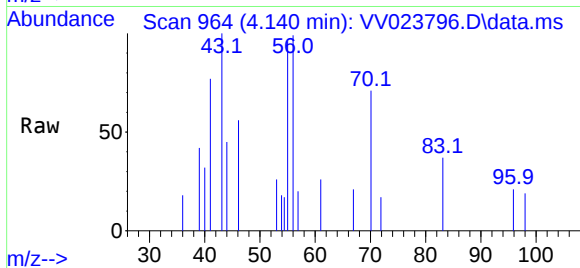
ClientSampleId :

Tgt Ion: 43 Resp: 1367

Ion Ratio Lower Upper

43 100

72 12.6 11.1 33.1



#22

cis-1,2-Dichloroethene

Concen: 35.173 ug/L

RT: 3.908 min Scan# 892

Delta R.T. -0.000 min

Lab File: VV023796.D

Acq: 06 Dec 2021 14:33

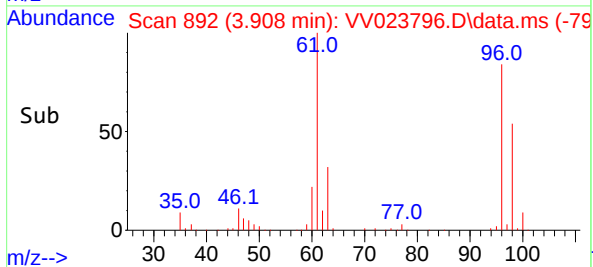
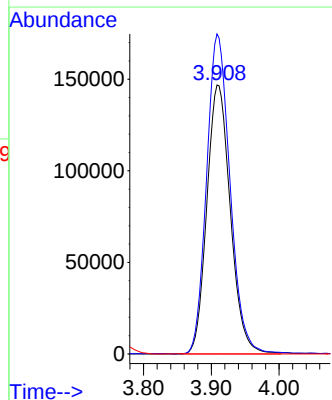
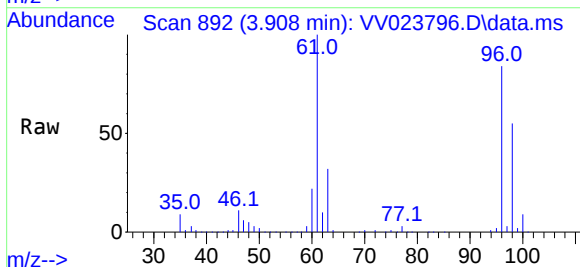
Tgt Ion: 96 Resp: 354190

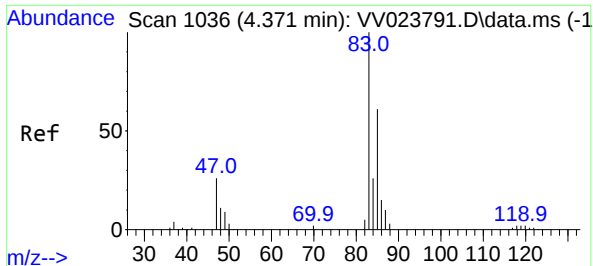
Ion Ratio Lower Upper

96 100

61 119.0 83.4 154.8

68 0.0 0.0 0.0





#25

Chloroform

Concen: 3.017 ug/L

RT: 4.407 min Scan# 110

Delta R.T. 0.035 min

Lab File: VV023796.D

Acq: 06 Dec 2021 14:33

Instrument :

MSVOA_V

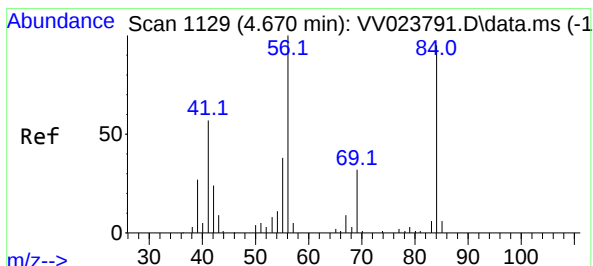
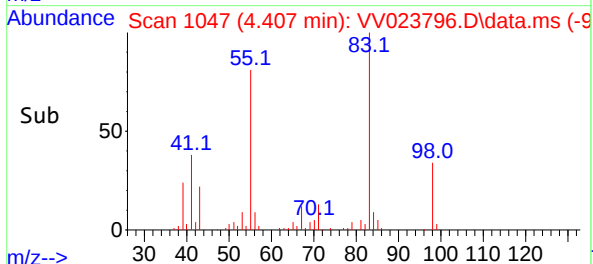
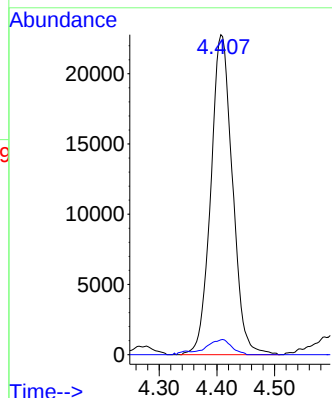
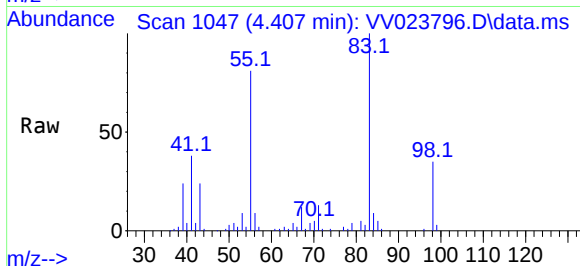
ClientSampleId :

Tgt Ion: 83 Resp: 59353

Ion Ratio Lower Upper

83 100

85 4.7 45.2 84.0#



#30

Cyclohexane

Concen: 14.046 ug/L

RT: 4.677 min Scan# 1131

Delta R.T. 0.003 min

Lab File: VV023796.D

Acq: 06 Dec 2021 14:33

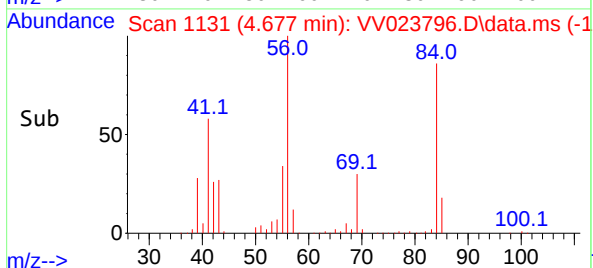
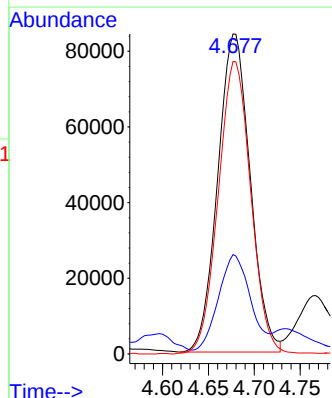
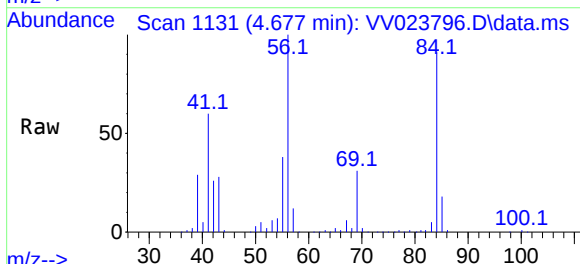
Tgt Ion: 56 Resp: 206749

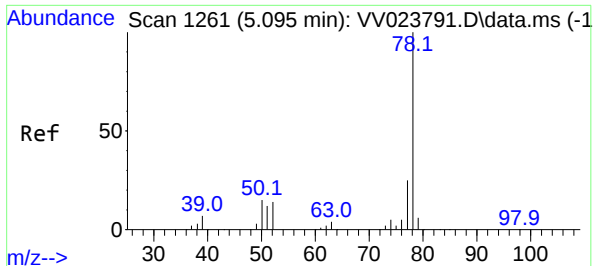
Ion Ratio Lower Upper

56 100

69 29.2 24.8 37.2

84 92.2 75.9 113.9

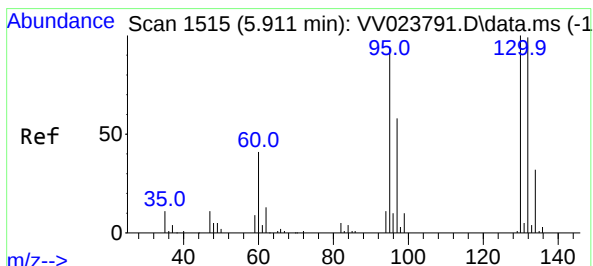
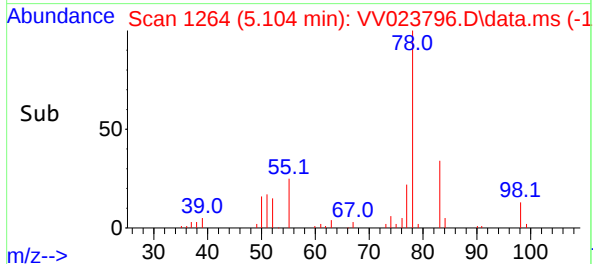
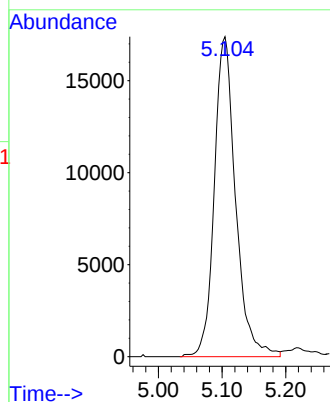
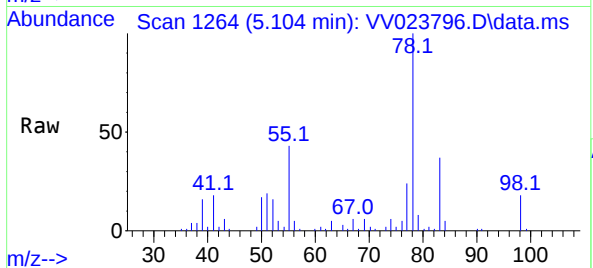




#33
Benzene
Concen: 1.050 ug/L
RT: 5.104 min Scan# 11
Delta R.T. 0.010 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

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MSVOA_V
ClientSampleId :

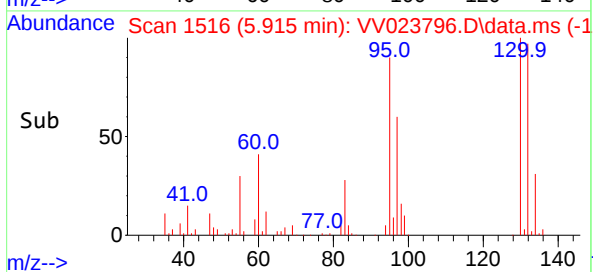
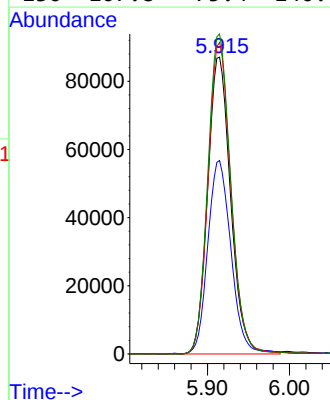
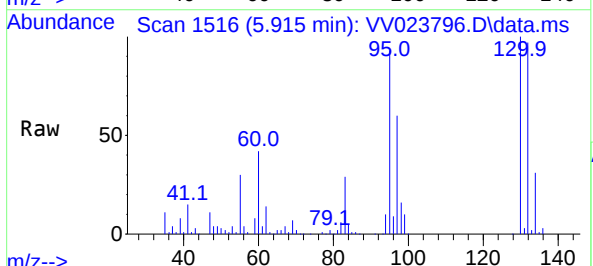
Tgt Ion: 78 Resp: 40407

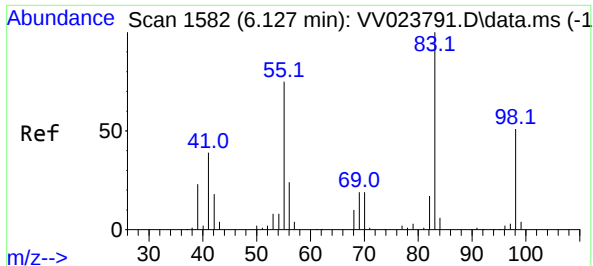


#34
Trichloroethene
Concen: 16.442 ug/L
RT: 5.915 min Scan# 1516
Delta R.T. 0.003 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

Tgt Ion: 95 Resp: 169478

Ion	Ratio	Lower	Upper
95	100		
97	65.1	45.2	84.0
132	104.9	76.1	141.3
130	107.8	75.4	140.0





#35

Methylcyclohexane

Concen: 9.610 ug/L

RT: 6.133 min Scan# 1

Delta R.T. 0.006 min

Lab File: VV023796.D

Acq: 06 Dec 2021 14:33

Instrument :

MSVOA_V

ClientSampleId :

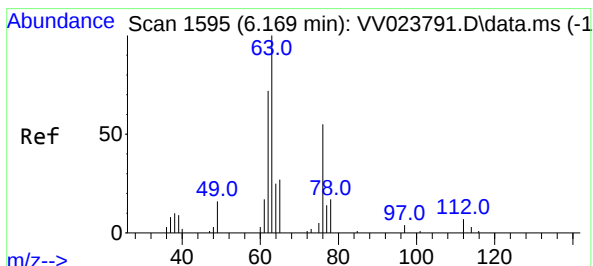
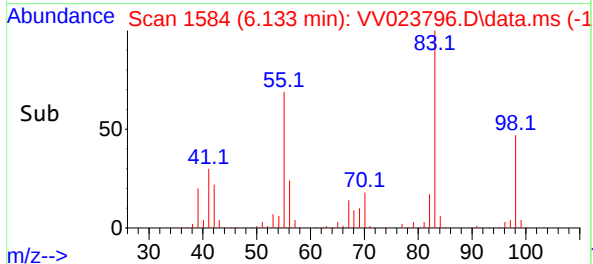
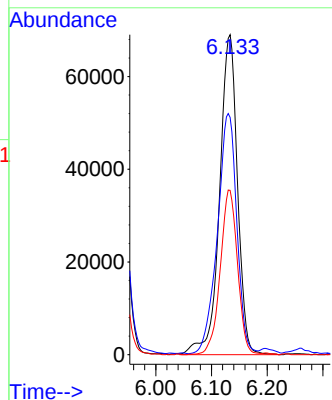
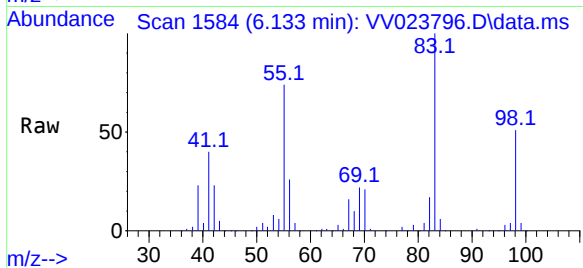
Tgt Ion: 83 Resp: 154424

Ion Ratio Lower Upper

83 100

55 80.9 60.2 90.2

98 49.5 41.0 61.4



#37

1,2-Dichloropropane

Concen: 0.201 ug/L

RT: 6.130 min Scan# 1583

Delta R.T. -0.039 min

Lab File: VV023796.D

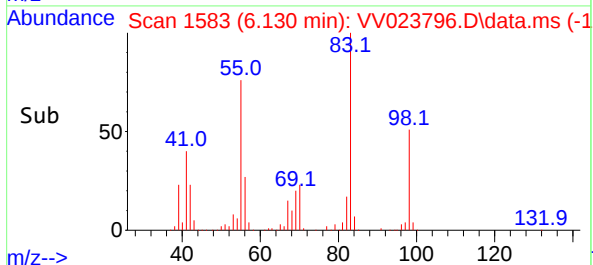
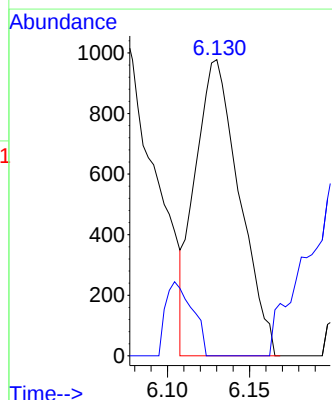
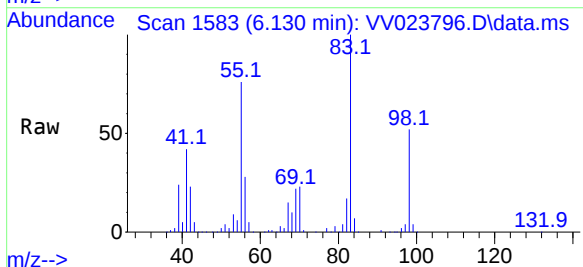
Acq: 06 Dec 2021 14:33

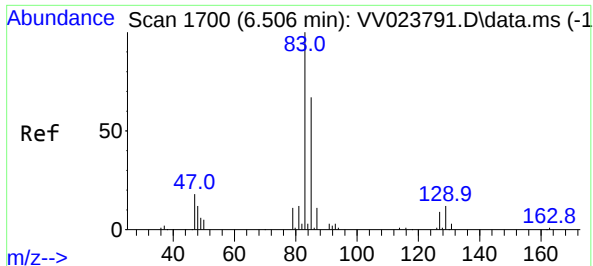
Tgt Ion: 63 Resp: 1840

Ion Ratio Lower Upper

63 100

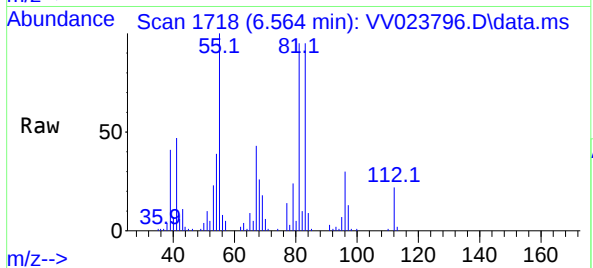
112 15.1 4.3 6.5#



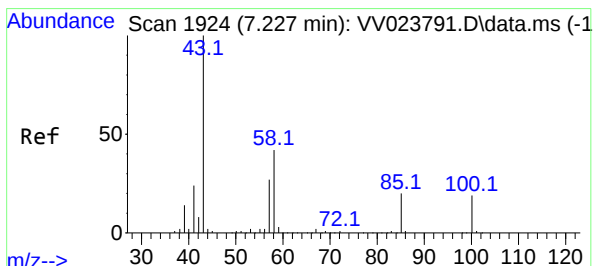
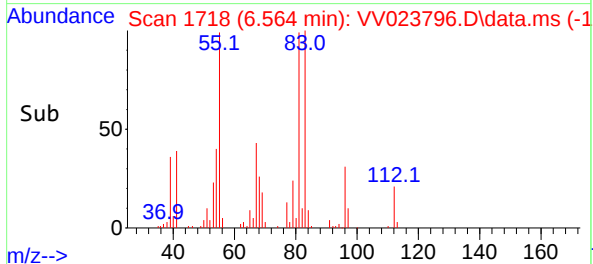
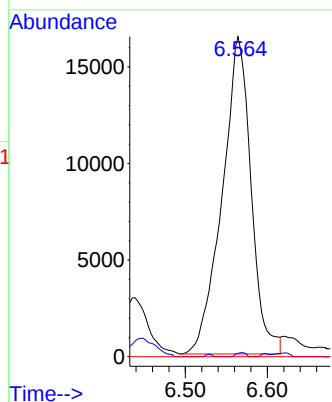


#38
Bromodichloromethane
Concen: 3.240 ug/L
RT: 6.564 min Scan# 11
Delta R.T. 0.058 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

Instrument :
MSVOA_V
ClientSampleId :

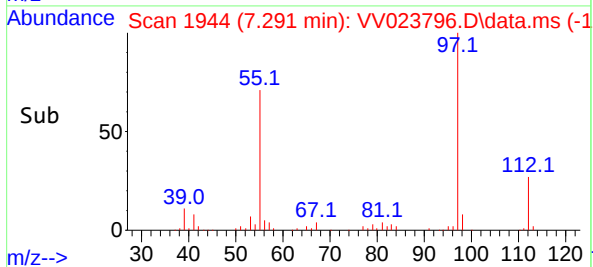
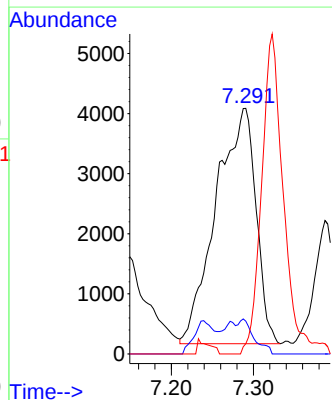
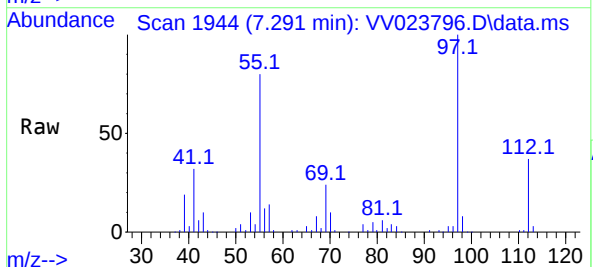


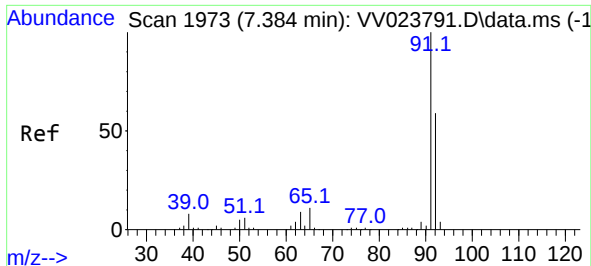
Tgt Ion: 83 Resp: 40227
Ion Ratio Lower Upper
83 100
85 1.1 44.0 81.8#
127 0.0 8.6 12.8#



#40
4-Methyl-2-pentanone
Concen: 3.036 ug/L
RT: 7.291 min Scan# 1944
Delta R.T. 0.064 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

Tgt Ion: 43 Resp: 13257
Ion Ratio Lower Upper
43 100
58 5.3 32.3 48.5#
100 74.2 13.0 19.6#

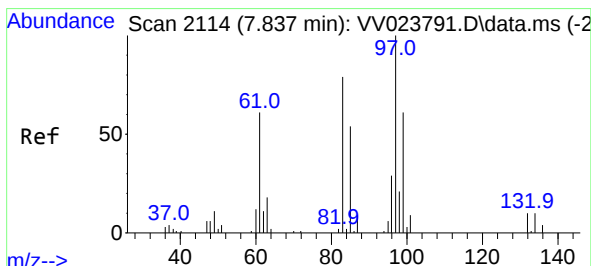
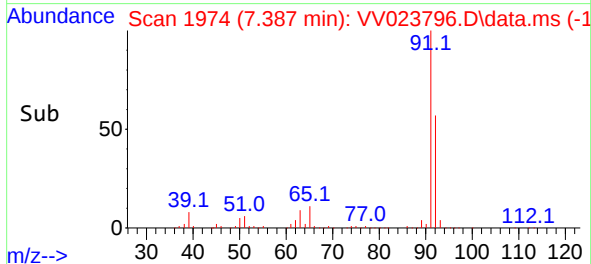
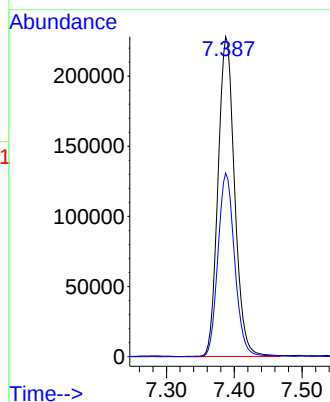
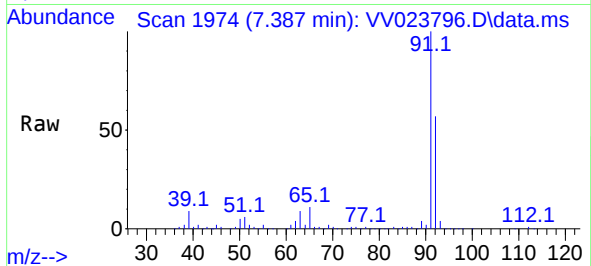




#42
Toluene
Concen: 9.276 ug/L
RT: 7.387 min Scan# 1973
Delta R.T. 0.003 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

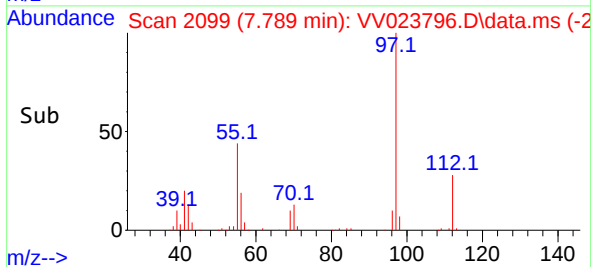
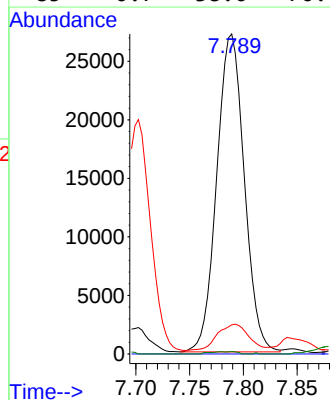
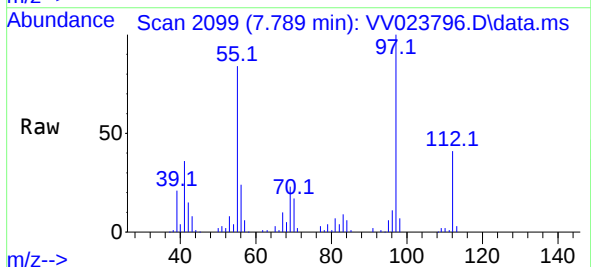
Instrument :
MSVOA_V
ClientSampleId :

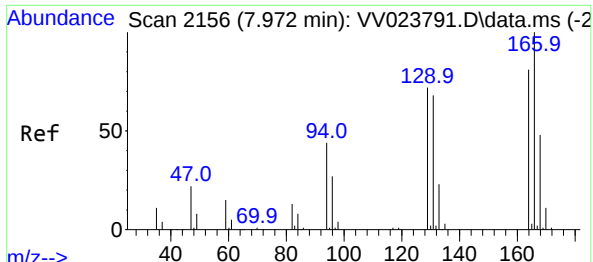
Tgt Ion: 91 Resp: 387083
Ion Ratio Lower Upper
91 100
92 57.4 41.5 77.1



#45
1,1,2-Trichloroethane
Concen: 7.624 ug/L
RT: 7.789 min Scan# 2099
Delta R.T. -0.048 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

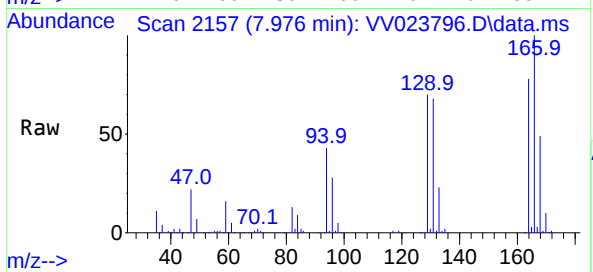
Tgt Ion: 97 Resp: 48285
Ion Ratio Lower Upper
97 100
99 0.0 43.1 80.1#
83 9.1 57.9 107.5#
85 0.7 38.0 70.6#





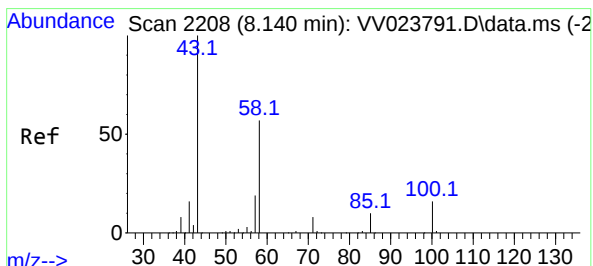
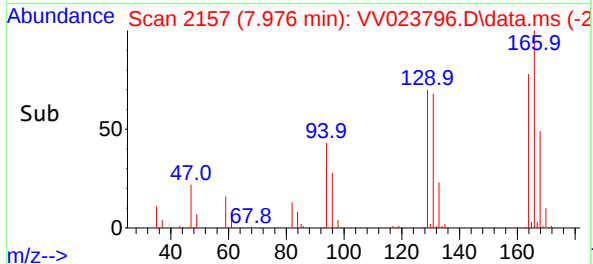
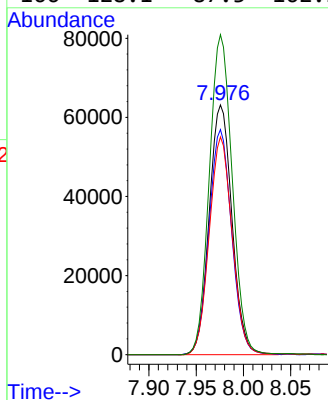
#47
Tetrachloroethene
Concen: 11.311 ug/L
RT: 7.976 min Scan# 2156
Delta R.T. 0.003 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:164 Resp: 106118

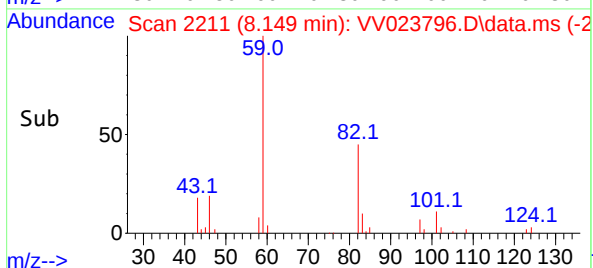
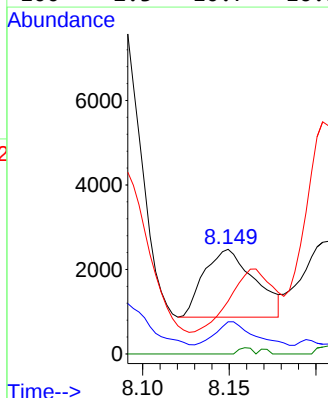
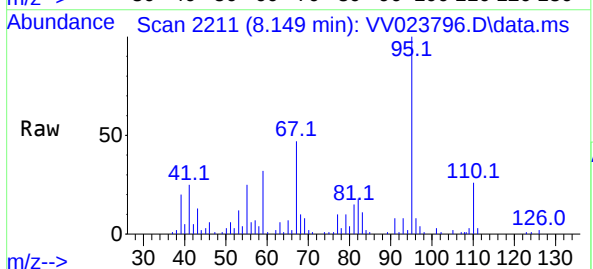
Ion	Ratio	Lower	Upper
164	100		
129	90.1	62.6	116.2
131	87.2	61.0	113.4
166	128.1	87.3	162.1

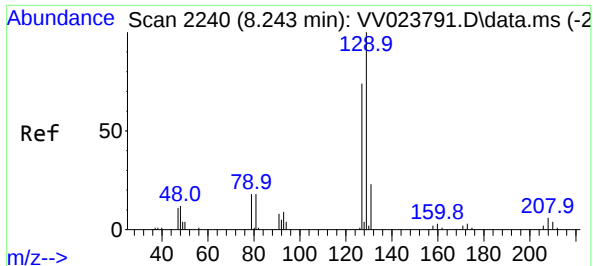


#48
2-Hexanone
Concen: 1.014 ug/L
RT: 8.149 min Scan# 2211
Delta R.T. 0.010 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

Tgt Ion: 43 Resp: 3272

Ion	Ratio	Lower	Upper
43	100		
58	29.2	44.5	66.7#
57	0.0	15.1	22.7#
100	2.3	10.7	16.1#





#49

Dibromochloromethane

Concen: 10.843 ug/L

RT: 7.976 min Scan# 2157

Delta R.T. -0.267 min

Lab File: VV023796.D

Acq: 06 Dec 2021 14:33

Instrument :

MSVOA_V

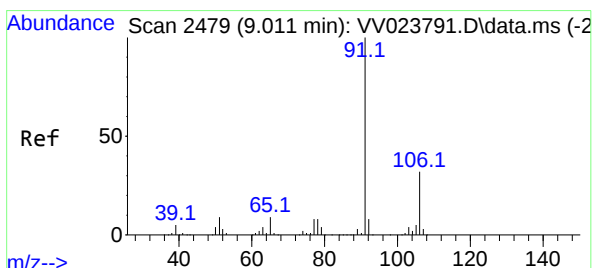
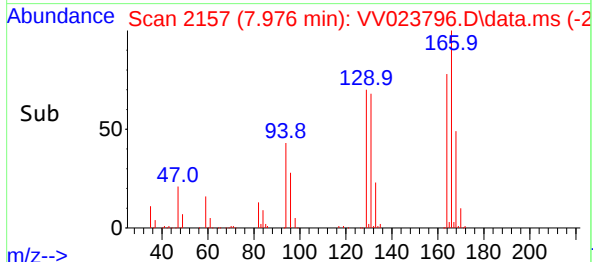
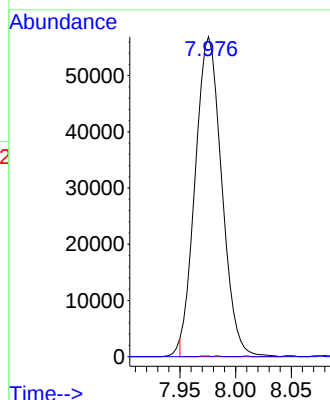
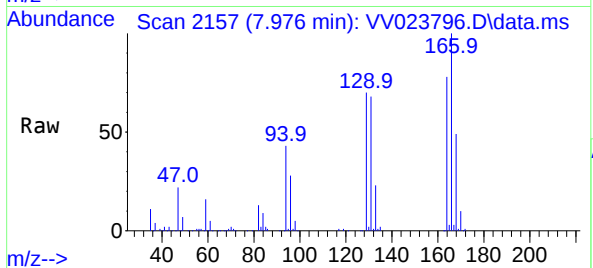
ClientSampleId :

Tgt Ion:129 Resp: 94106

Ion Ratio Lower Upper

129 100

127 0.2 53.5 99.3#



#52

Ethylbenzene

Concen: 116.444 ug/L

RT: 9.014 min Scan# 2480

Delta R.T. 0.003 min

Lab File: VV023796.D

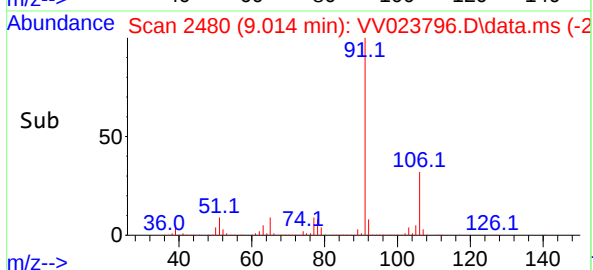
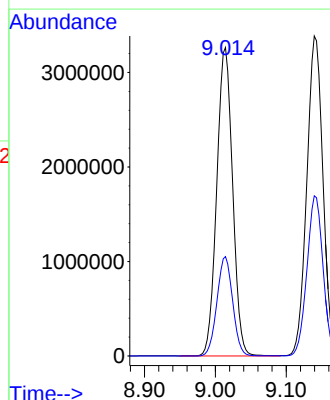
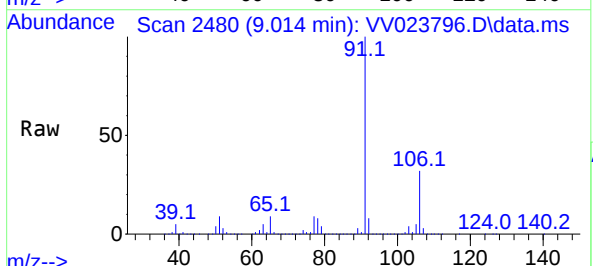
Acq: 06 Dec 2021 14:33

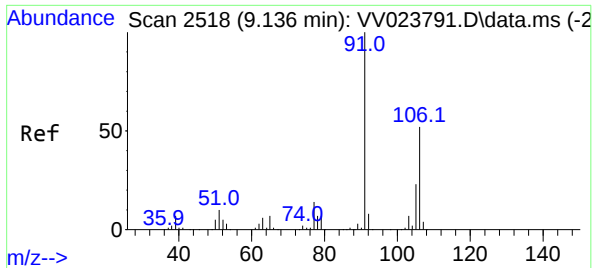
Tgt Ion: 91 Resp: 5079319

Ion Ratio Lower Upper

91 100

106 32.2 22.0 41.0

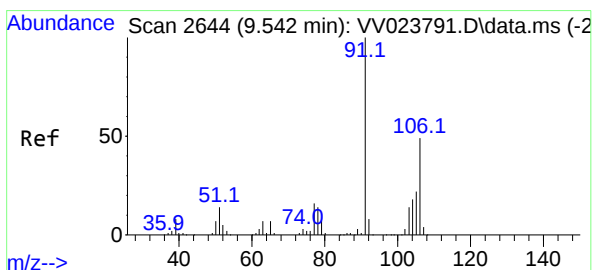
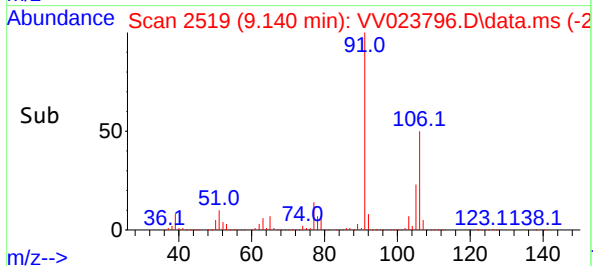
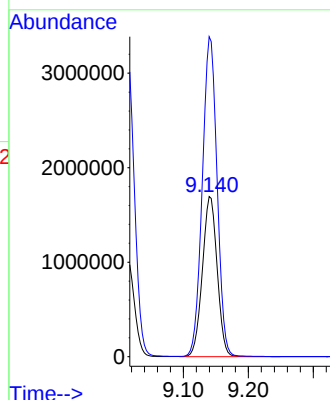
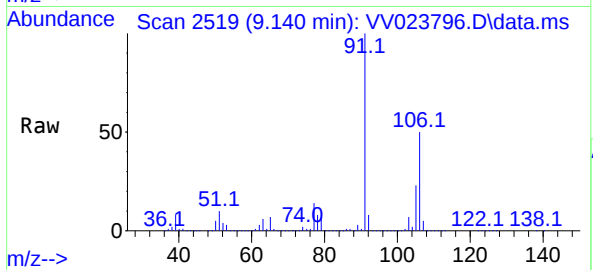




#53
m,p-xylene
Concen: 154.393 ug/L
RT: 9.140 min Scan# 2518
Delta R.T. 0.003 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

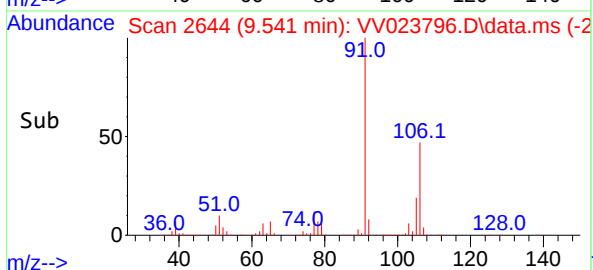
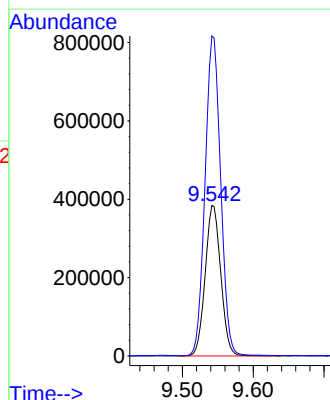
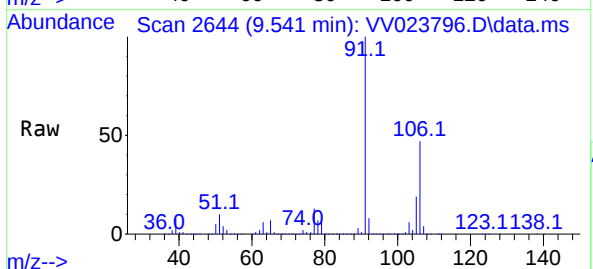
Instrument :
MSVOA_V
ClientSampleId :

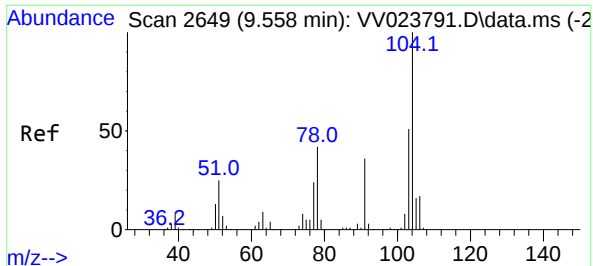
Tgt Ion:106 Resp: 2680371
Ion Ratio Lower Upper
106 100
91 199.7 139.5 259.1



#54
o-xylene
Concen: 35.477 ug/L
RT: 9.541 min Scan# 2644
Delta R.T. -0.000 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

Tgt Ion:106 Resp: 585717
Ion Ratio Lower Upper
106 100
91 212.6 147.9 274.7

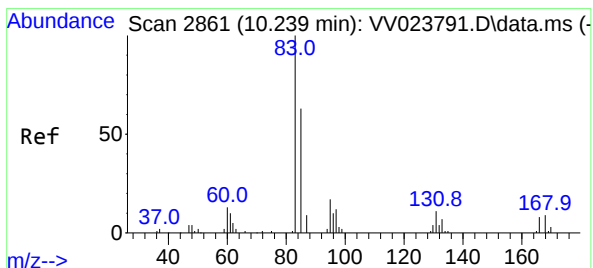
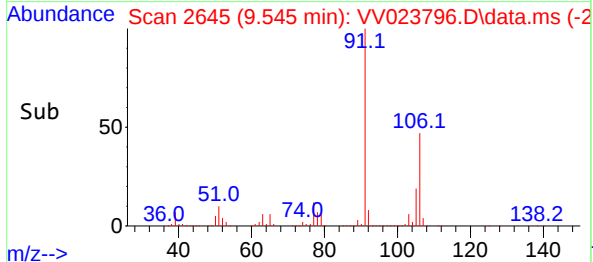
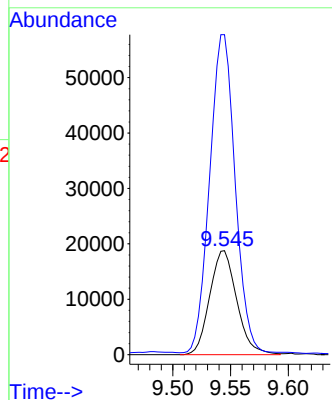
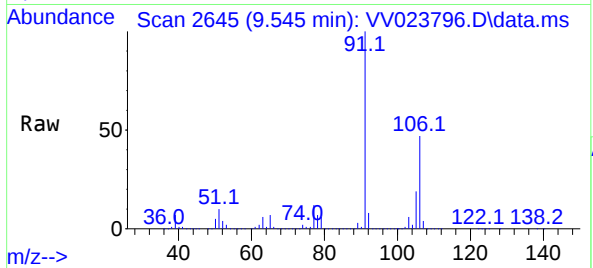




#55
Styrene
Concen: 1.101 ug/L
RT: 9.545 min Scan# 20
Delta R.T. -0.013 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

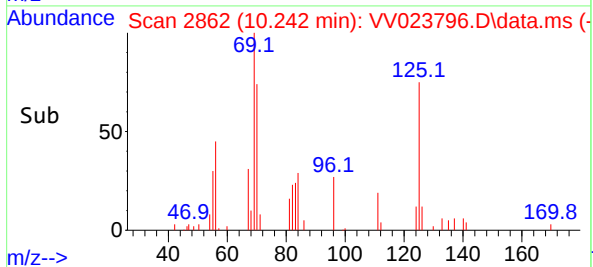
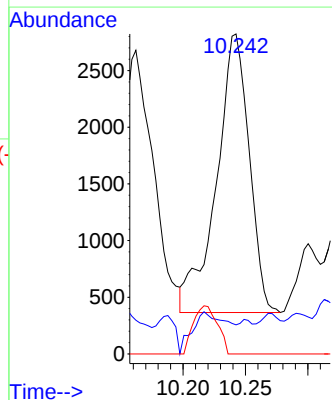
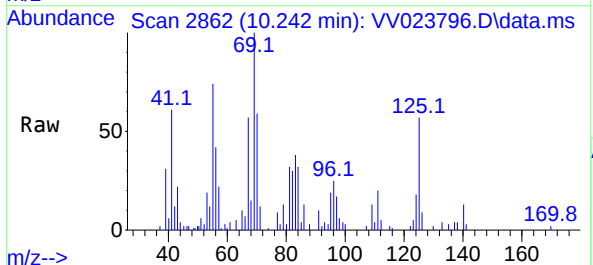
Instrument :
MSVOA_V
ClientSampleId :

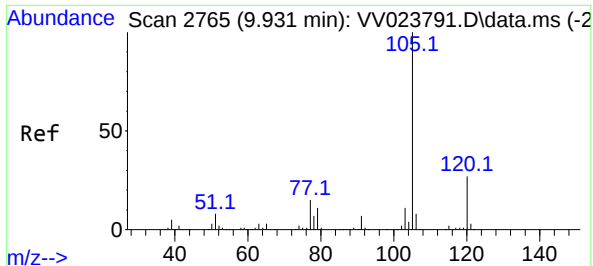
Tgt Ion:104 Resp: 30616
Ion Ratio Lower Upper
104 100
78 307.7 31.0 57.6#



#57
1,1,2,2-Tetrachloroethane
Concen: 0.637 ug/L
RT: 10.242 min Scan# 2862
Delta R.T. 0.003 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

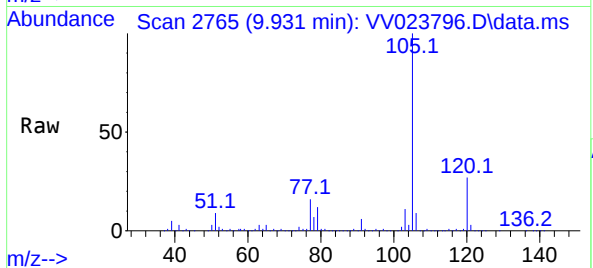
Tgt Ion: 83 Resp: 4488
Ion Ratio Lower Upper
83 100
85 9.1 44.6 82.8#
131 0.0 8.3 12.5#



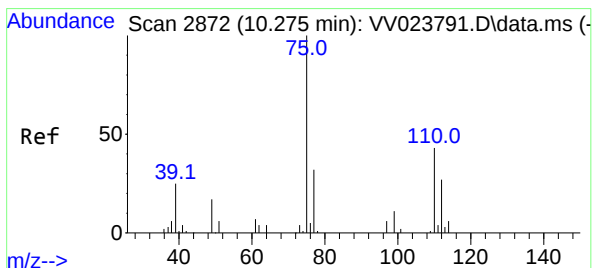
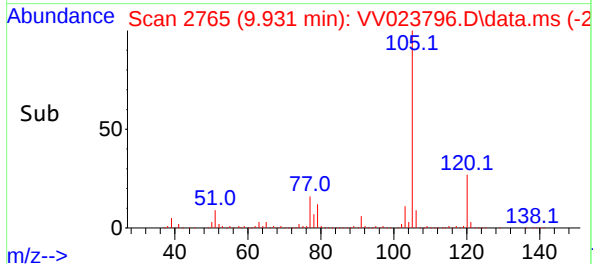
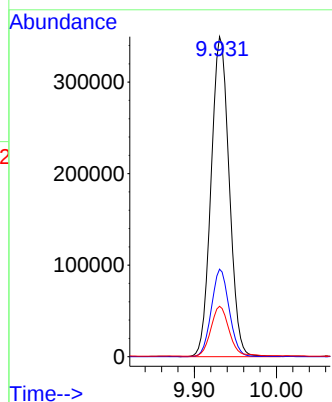


#60
Isopropylbenzene
Concen: 11.618 ug/L
RT: 9.931 min Scan# 21
Delta R.T. -0.000 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

Instrument :
MSVOA_V
ClientSampleId :

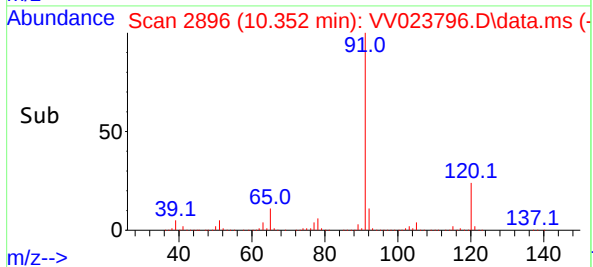
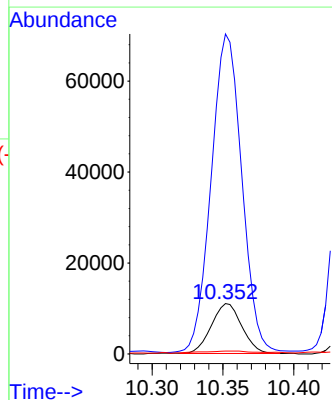
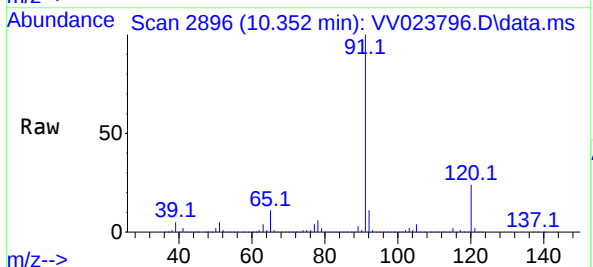


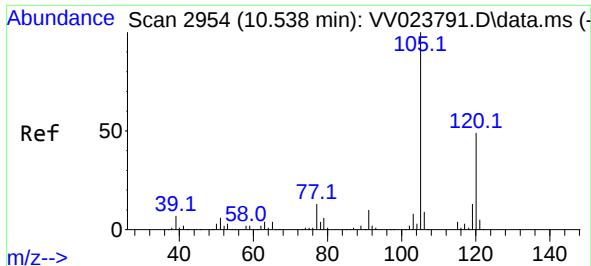
Tgt Ion:105 Resp: 535995
Ion Ratio Lower Upper
105 100
120 0.0 21.4 32.0#
77 15.8 12.2 18.4



#61
1,2,3-Trichloropropane
Concen: 2.983 ug/L
RT: 10.352 min Scan# 2896
Delta R.T. 0.080 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

Tgt Ion: 75 Resp: 16344
Ion Ratio Lower Upper
75 100
77 644.1 26.4 39.6#
110 7.3 34.2 51.2#





#62

1,3,5-Trimethylbenzene

Concen: 81.116 ug/L

RT: 10.541 min Scan# 2954

Delta R.T. 0.003 min

Lab File: VV023796.D

Acq: 06 Dec 2021 14:33

Instrument :

MSVOA_V

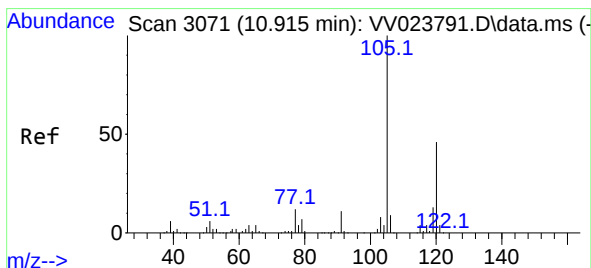
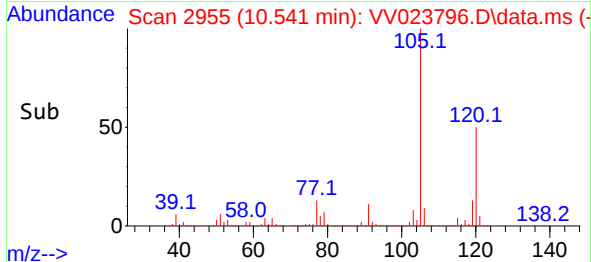
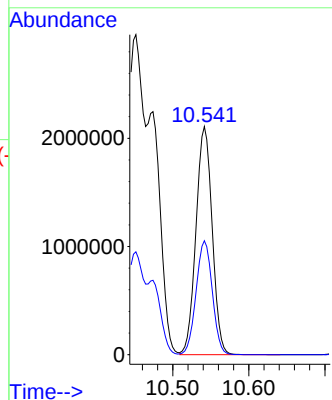
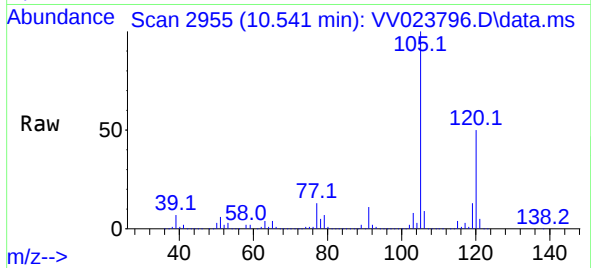
ClientSampleId :

Tgt Ion:105 Resp: 3113953

Ion Ratio Lower Upper

105 100

120 49.9 40.1 60.1



#63

1,2,4-Trimethylbenzene

Concen: 313.002 ug/L

RT: 10.921 min Scan# 3073

Delta R.T. 0.010 min

Lab File: VV023796.D

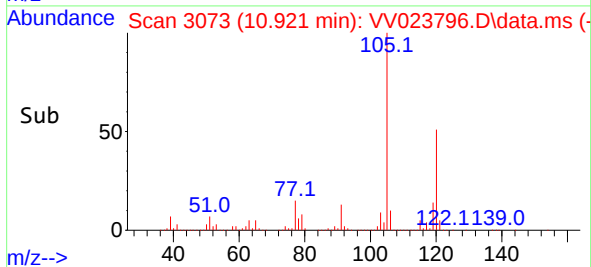
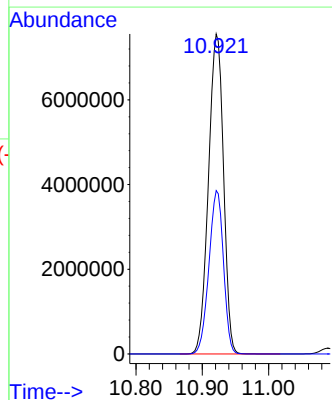
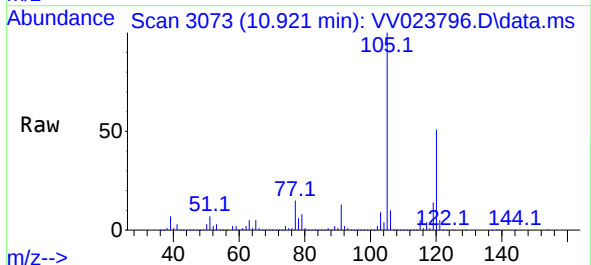
Acq: 06 Dec 2021 14:33

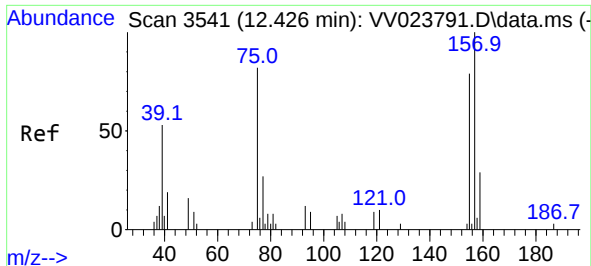
Tgt Ion:105 Resp:11882535

Ion Ratio Lower Upper

105 100

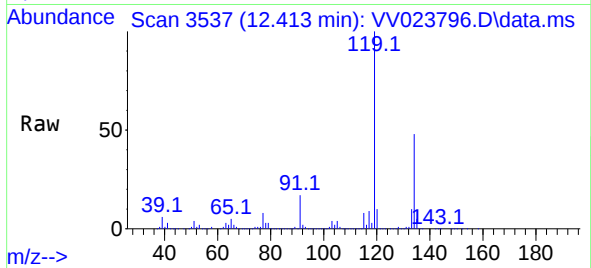
120 49.3 36.7 55.1



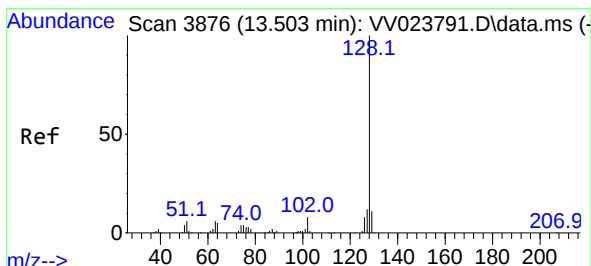
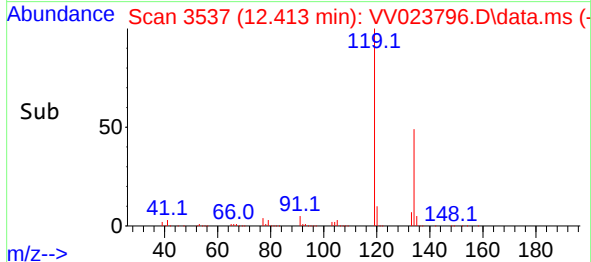
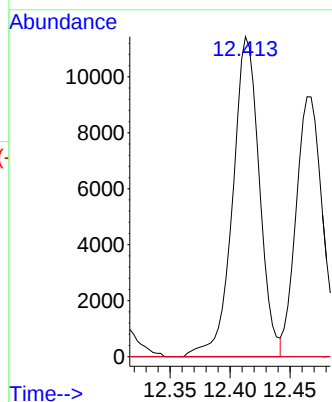


#68
1,2-Dibromo-3-chloropropane
Concen: 16.268 ug/L
RT: 12.413 min Scan# 3537
Delta R.T. -0.013 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion: 75 Resp: 17702
Ion Ratio Lower Upper
75 100
155 0.0 71.7 107.5#
157 0.0 103.3 154.9#



#71
Naphthalene
Concen: 108.366 ug/L
RT: 13.503 min Scan# 3876
Delta R.T. -0.000 min
Lab File: VV023796.D
Acq: 06 Dec 2021 14:33

Tgt Ion: 128 Resp: 2083825
Ion Ratio Lower Upper
128 100
129 11.7 9.0 13.4
127 13.4 10.2 15.4

