

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\Data\VW110921\
 Data File : VW023339.D
 Acq On : 10 Nov 2021 18:03
 Operator : SY/MD
 Sample : M4558-10
 Misc : 25.0mL/MSVOA_V/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 11 00:44:38 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\SFAMVTR110421WMA.M
 Quant Title : TRACE VOA SFAM1.0
 QLast Update : Thu Nov 11 00:38:57 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Difluorobenzene	5.619	114	144426	5.000	ug/L	0.00
28) Chlorobenzene-d5	8.854	117	135163	5.000	ug/L	0.00
58) 1,4-Dichlorobenzene-d4	11.249	152	70211	5.000	ug/L	0.00
System Monitoring Compounds						
4) Vinyl Chloride-d3	1.304	65	26220	2.898	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	58.000%
7) Chloroethane-d5	1.568	69	27164	3.684	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	73.600%
11) 1,1-Dichloroethene-d2	2.108	63	39712	2.345	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	46.800%#
20) 2-Butanone-d5	3.896	46	96348	61.811	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	123.620%
24) Chloroform-d	4.355	84	81231	4.213	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.200%
26) 1,2-Dichloroethane-d4	5.043	65	39701	4.579	ug/L	0.01
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.600%
32) Benzene-d6	5.059	84	150491	4.339	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.800%
36) 1,2-Dichloropropane-d6	6.072	67	48413	4.742	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.800%
41) Toluene-d8	7.317	98	131853	4.057	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	81.200%
43) trans-1,3-Dichloroprop...	7.625	79	15440	3.989	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.800%
46) 2-Hexanone-d5	8.088	63	85391	59.955	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	119.900%
56) 1,1,2,2-Tetrachloroeth...	10.217	84	35775	4.873	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.400%
66) 1,2-Dichlorobenzene-d4	11.625	152	53357	4.564	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.200%
Target Compounds						
					Qvalue	
3) Chloromethane	1.214	50	11007	0.919	ug/L #	63
5) Vinyl chloride	1.310	62	27057	2.263	ug/L	99
8) Chloroethane	1.587	64	3657	0.530	ug/L	99
12) 1,1-Dichloroethene	2.108	96	641	0.074	ug/L #	1
13) Acetone	2.134	43	59638	62.615	ug/L	57
15) Methyl Acetate	2.500	43	1334254	494.968	ug/L #	47
17) Methyl tert-butyl Ether	2.770	73	1793	0.095	ug/L #	1
18) trans-1,2-Dichloroethene	2.764	96	6943	0.656	ug/L	95
21) 2-Butanone	3.883	43	34377	22.324	ug/L	83
22) cis-1,2-Dichloroethene	3.912	96	554586	54.429	ug/L #	93
25) Chloroform	4.410	83	30470	1.599	ug/L	96
27) 1,2-Dichloroethane	5.127	62	787820	77.733	ug/L #	77
30) Cyclohexane	4.680	56	1377148	93.621	ug/L	99
34) Trichloroethene	5.921	95	12132	1.208	ug/L	97
35) Methylcyclohexane	6.130	83	329838	20.801	ug/L	90
38) Bromodichloromethane	6.567	83	8643	0.731	ug/L #	36
39) cis-1,3-Dichloropropene	6.992	75	1558	0.123	ug/L #	1
40) 4-Methyl-2-pentanone	7.265	43	10053	2.458	ug/L #	67
42) Toluene	7.391	91	175900	4.353	ug/L	98

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

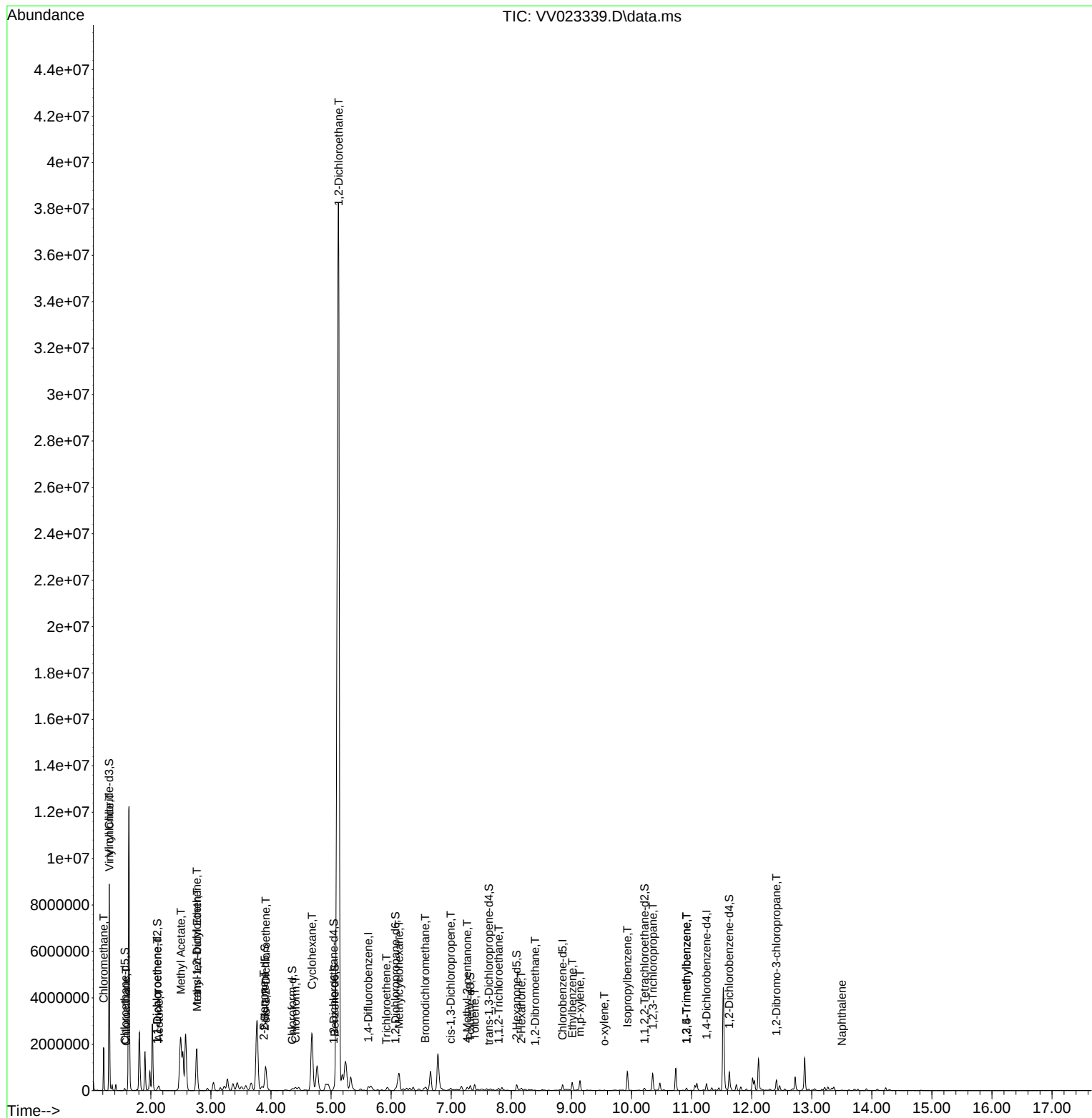
45) 1,1,2-Trichloroethane	7.789	97	35448	5.594	ug/L #	20
48) 2-Hexanone	8.165	43	4967	1.733	ug/L #	1
50) 1,2-Dibromoethane	8.394	107	643	0.109	ug/L #	1
52) Ethylbenzene	9.014	91	235998	5.538	ug/L	98
53) m,p-xylene	9.143	106	113468	6.784	ug/L	95
54) o-xylene	9.548	106	2827	0.180	ug/L	78
60) Isopropylbenzene	9.931	105	517413	12.842	ug/L	99
61) 1,2,3-Trichloropropane	10.355	75	3794	0.813	ug/L #	1
62) 1,3,5-Trimethylbenzene	10.915	105	54215	1.623	ug/L	96
63) 1,2,4-Trimethylbenzene	10.915	105	54215	1.630	ug/L	100
68) 1,2-Dibromo-3-chloropr...	12.413	75	2158	2.172	ug/L #	1
71) Naphthalene	13.503	128	15946	0.838	ug/L #	88

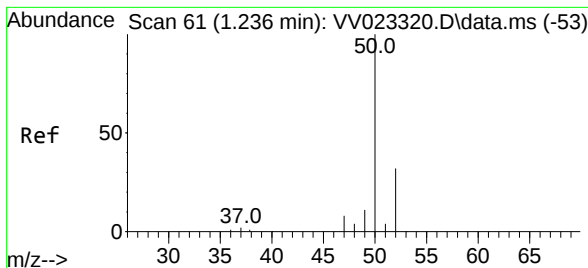
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.919 ug/L

RT: 1.214 min Scan# 54

Delta R.T. -0.022 min

Lab File: VV023339.D

Acq: 10 Nov 2021 18:03

Instrument :

MSVOA_V

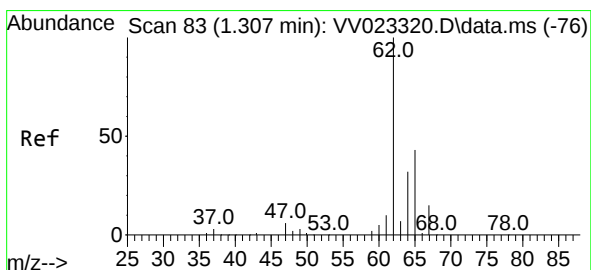
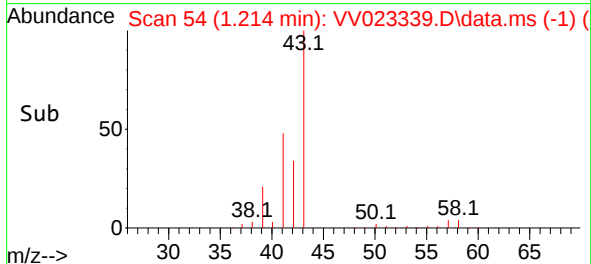
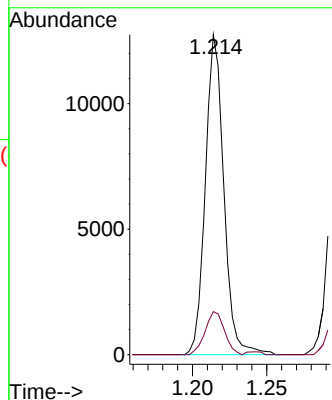
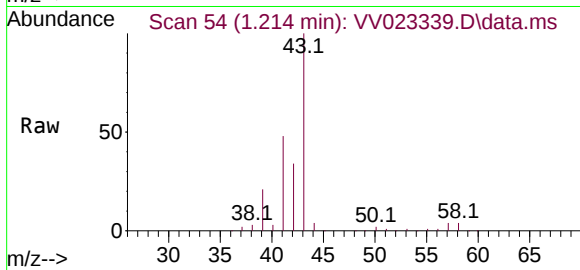
ClientSampleId :

Tgt Ion: 50 Resp: 11007

Ion Ratio Lower Upper

50 100

52 13.5 24.3 45.1#



#5

Vinyl chloride

Concen: 2.263 ug/L

RT: 1.310 min Scan# 84

Delta R.T. 0.003 min

Lab File: VV023339.D

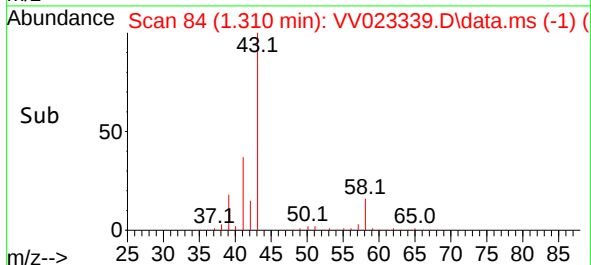
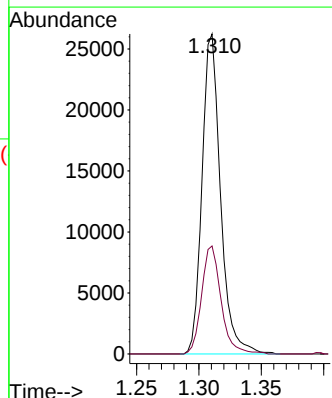
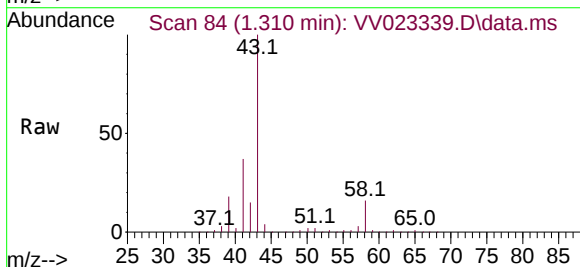
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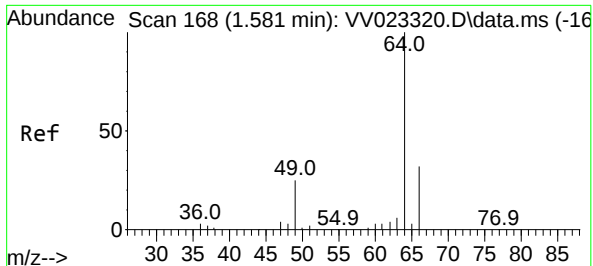
Tgt Ion: 62 Resp: 27057

Ion Ratio Lower Upper

62 100

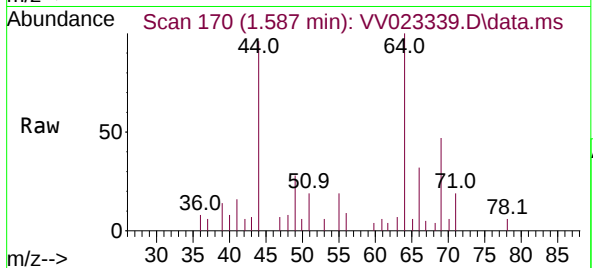
64 33.7 23.1 42.9



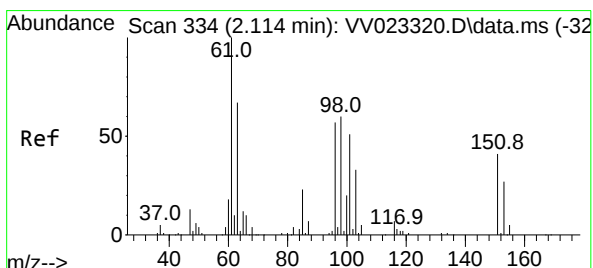
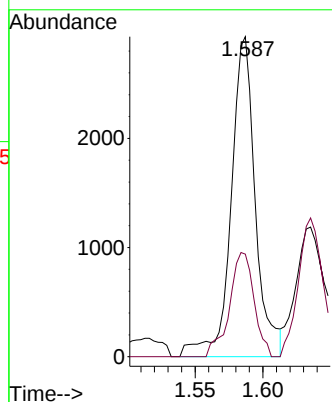
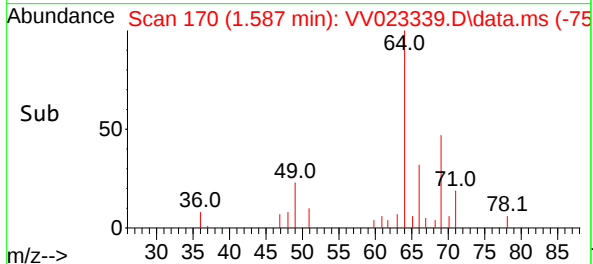


#8
Chloroethane
Concen: 0.530 ug/L
RT: 1.587 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

Instrument :
MSVOA_V
ClientSampleId :

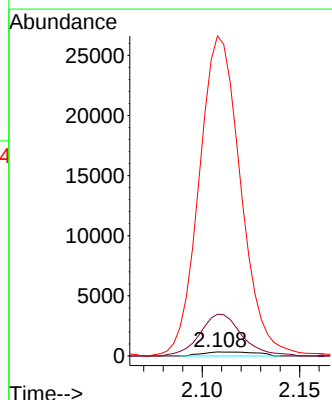
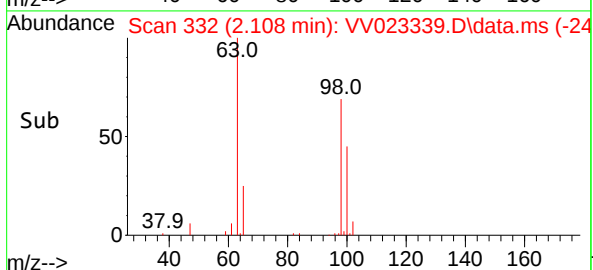
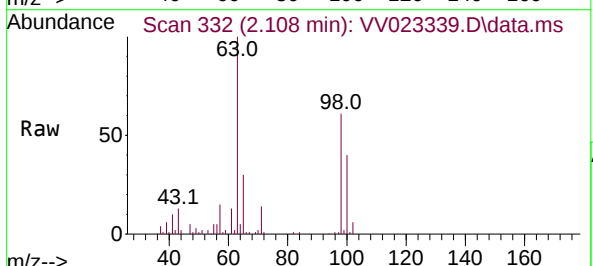


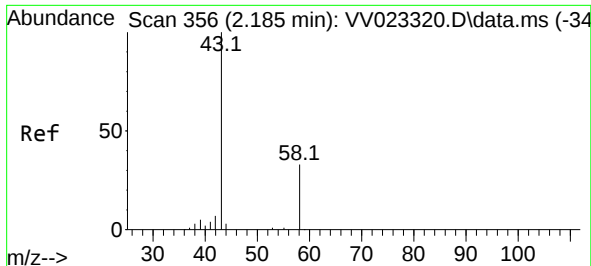
Tgt Ion: 64 Resp: 3657
Ion Ratio Lower Upper
64 100
66 32.0 22.1 41.1



#12
1,1-Dichloroethene
Concen: 0.074 ug/L
RT: 2.108 min Scan# 332
Delta R.T. -0.006 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

Tgt Ion: 96 Resp: 641
Ion Ratio Lower Upper
96 100
61 1061.5 121.5 225.7#
63 8139.4 99.6 185.0#





#13

Acetone

Concen: 62.615 ug/L

RT: 2.134 min Scan# 34

Delta R.T. -0.051 min

Lab File: VV023339.D

Acq: 10 Nov 2021 18:03

Instrument :

MSVOA_V

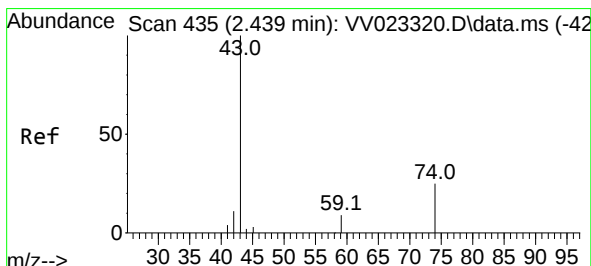
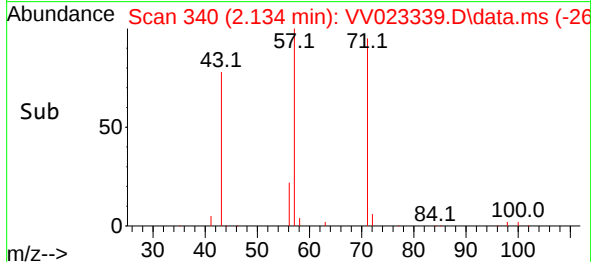
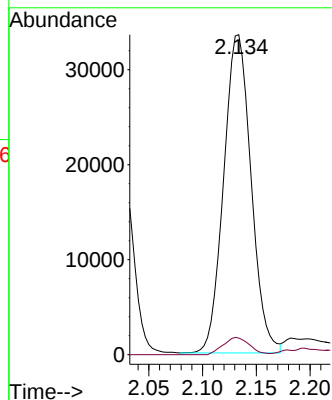
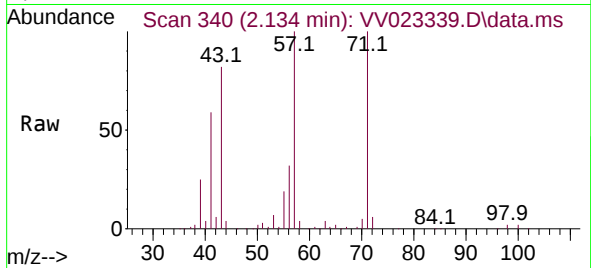
ClientSampleId :

Tgt Ion: 43 Resp: 59638

Ion Ratio Lower Upper

43 100

58 5.2 0.0 55.4



#15

Methyl Acetate

Concen: 494.968 ug/L

RT: 2.500 min Scan# 454

Delta R.T. 0.061 min

Lab File: VV023339.D

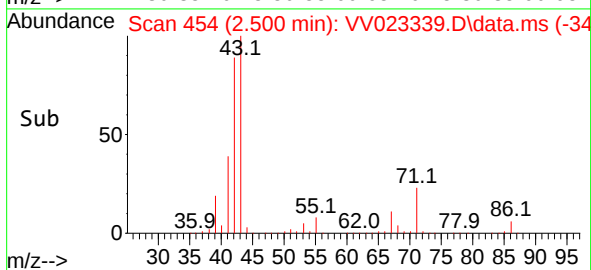
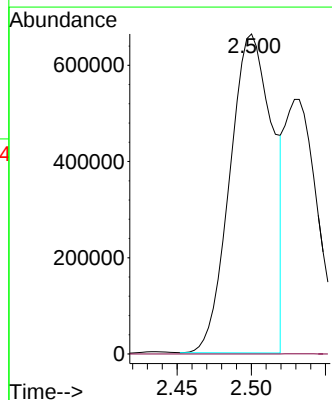
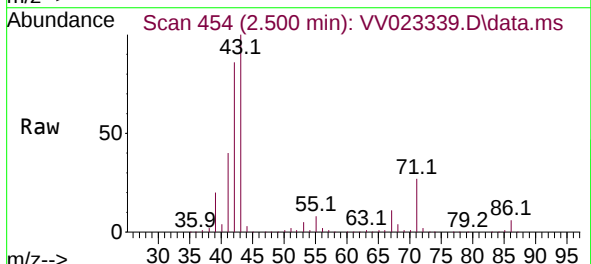
Acq: 10 Nov 2021 18:03

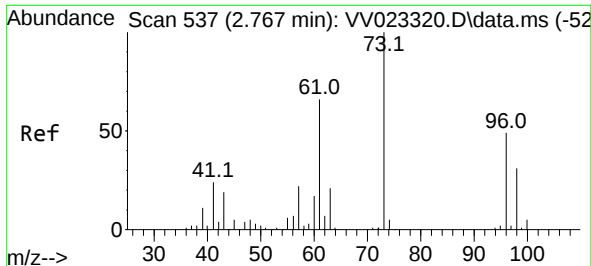
Tgt Ion: 43 Resp: 1334254

Ion Ratio Lower Upper

43 100

74 0.0 22.2 33.2#

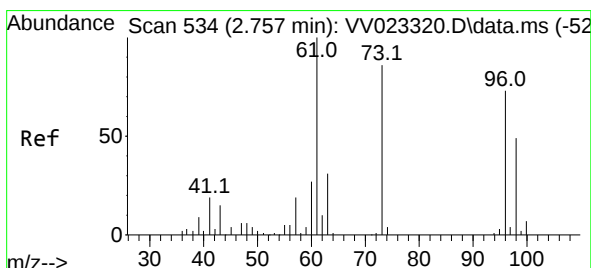
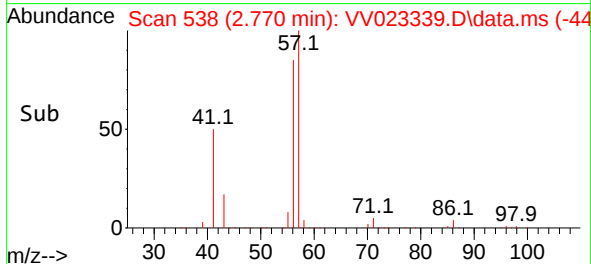
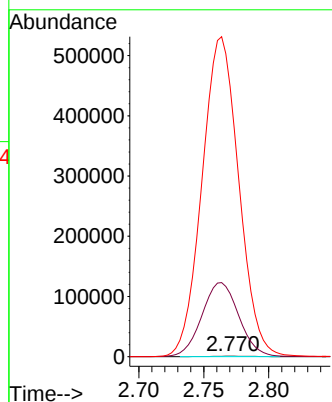
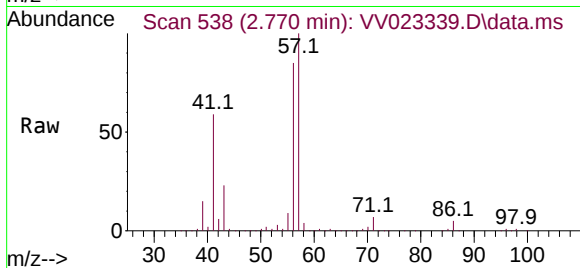




#17
Methyl tert-butyl Ether
Concen: 0.095 ug/L
RT: 2.770 min Scan# 51
Delta R.T. 0.003 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

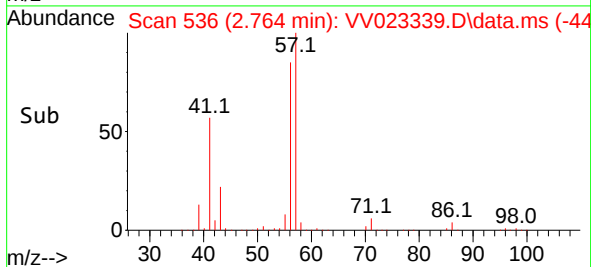
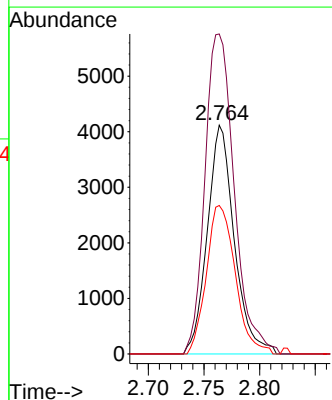
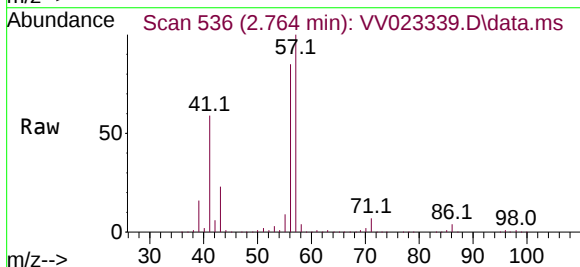
Instrument :
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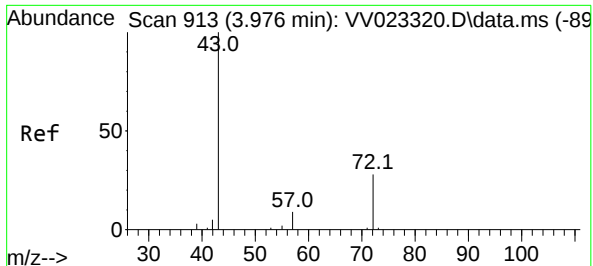
Tgt Ion: 73 Resp: 1793
Ion Ratio Lower Upper
73 100
43 13578.2 17.4 26.0#
57 58463.1 16.5 24.7#



#18
trans-1,2-Dichloroethene
Concen: 0.656 ug/L
RT: 2.764 min Scan# 536
Delta R.T. 0.006 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

Tgt Ion: 96 Resp: 6943
Ion Ratio Lower Upper
96 100
61 139.9 93.2 173.2
98 64.9 47.0 87.2





#21

2-Butanone

Concen: 22.324 ug/L

RT: 3.883 min Scan# 884

Delta R.T. -0.093 min

Lab File: VV023339.D

Acq: 10 Nov 2021 18:03

Instrument :

MSVOA_V

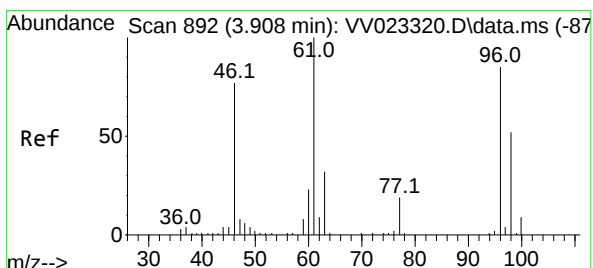
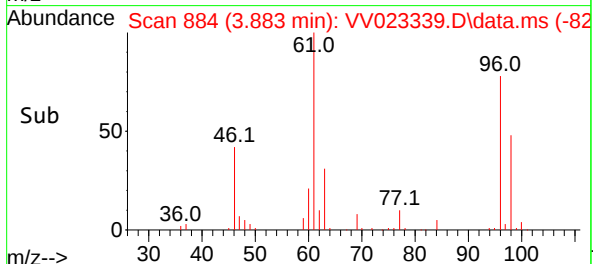
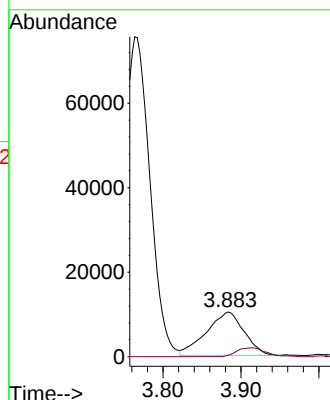
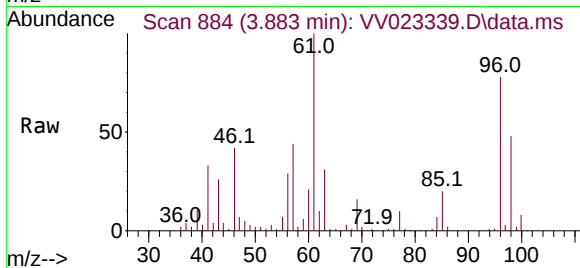
ClientSampleId :

Tgt Ion: 43 Resp: 34377

Ion Ratio Lower Upper

43 100

72 15.6 11.9 35.9



#22

cis-1,2-Dichloroethene

Concen: 54.429 ug/L

RT: 3.912 min Scan# 893

Delta R.T. 0.003 min

Lab File: VV023339.D

Acq: 10 Nov 2021 18:03

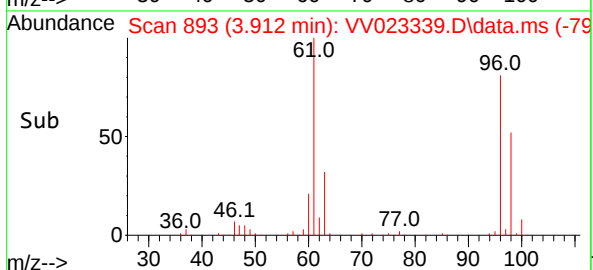
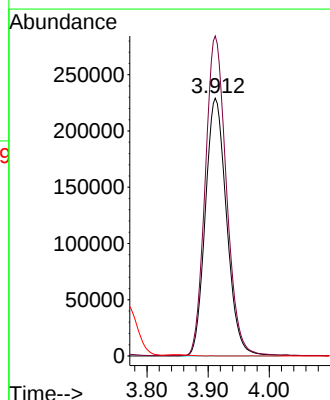
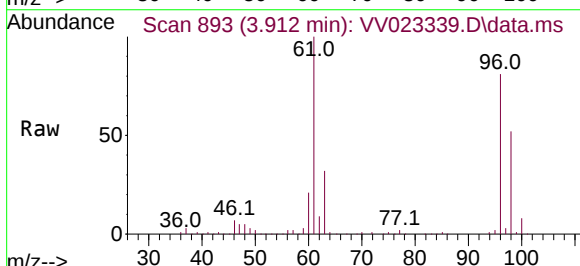
Tgt Ion: 96 Resp: 554586

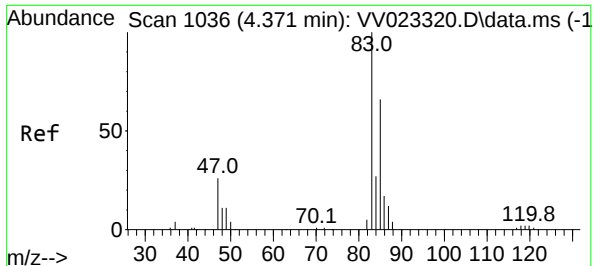
Ion Ratio Lower Upper

96 100

61 124.1 92.3 171.3

68 0.0 0.4 0.8#





#25

Chloroform

Concen: 1.599 ug/L

RT: 4.410 min Scan# 1048

Delta R.T. 0.039 min

Lab File: VV023339.D

Acq: 10 Nov 2021 18:03

Instrument :

MSVOA_V

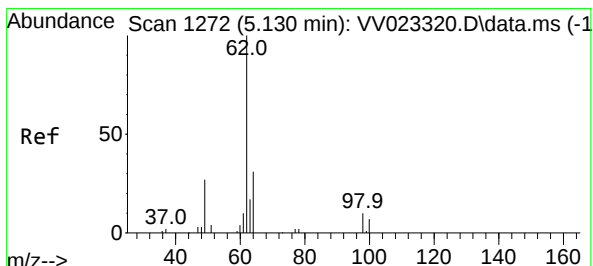
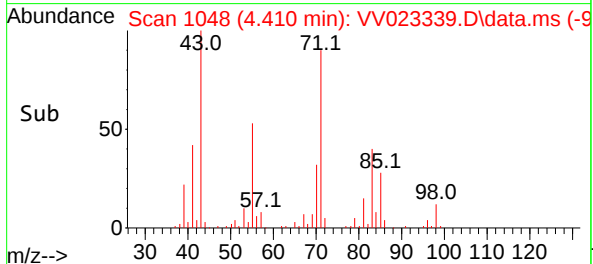
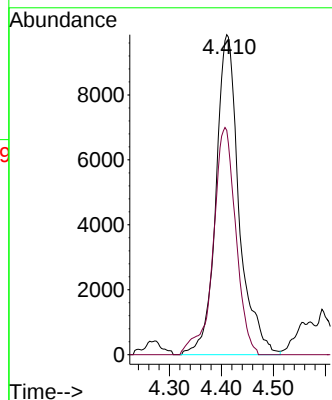
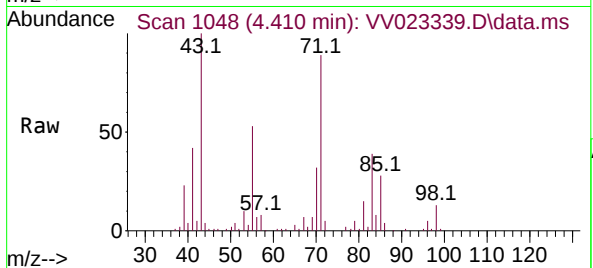
ClientSampleId :

Tgt Ion: 83 Resp: 30470

Ion Ratio Lower Upper

83 100

85 70.1 46.8 86.8



#27

1,2-Dichloroethane

Concen: 77.733 ug/L

RT: 5.127 min Scan# 1271

Delta R.T. -0.003 min

Lab File: VV023339.D

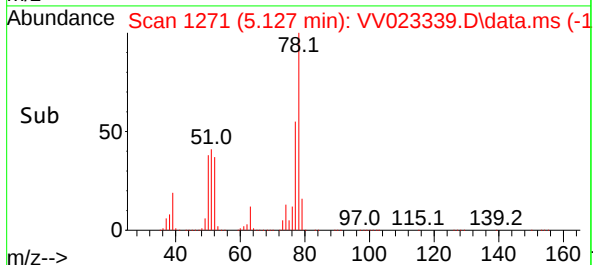
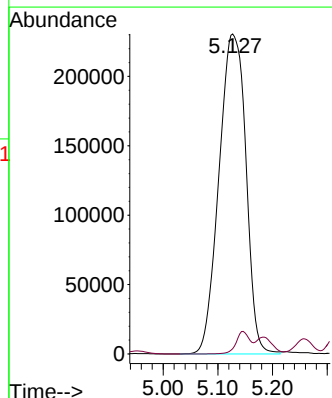
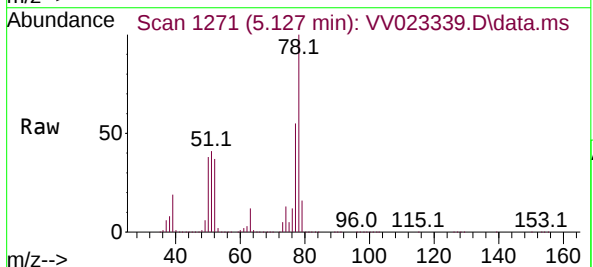
Acq: 10 Nov 2021 18:03

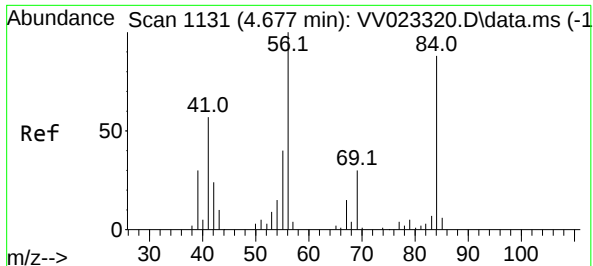
Tgt Ion: 62 Resp: 787820

Ion Ratio Lower Upper

62 100

98 1.7 8.2 12.4#

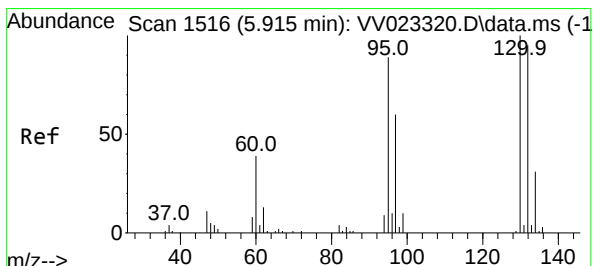
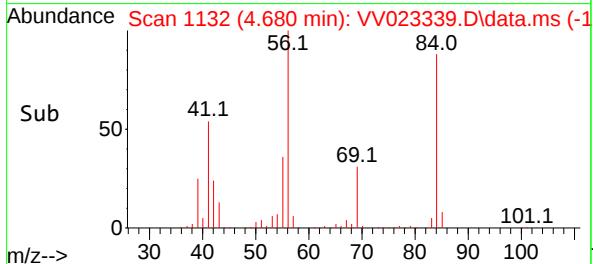
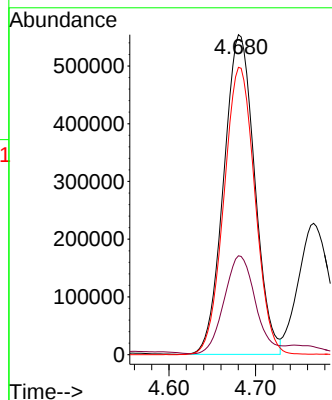
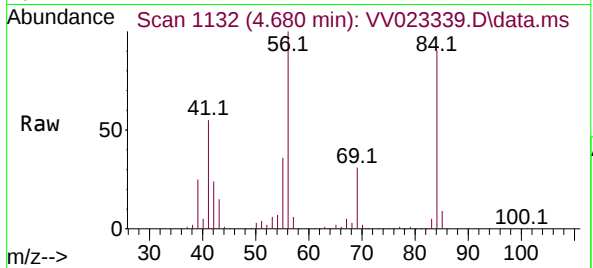




#30
Cyclohexane
Concen: 93.621 ug/L
RT: 4.680 min Scan# 1131
Delta R.T. 0.003 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

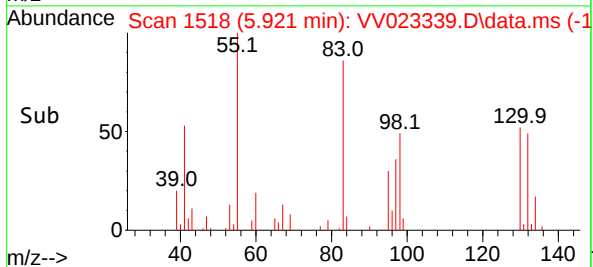
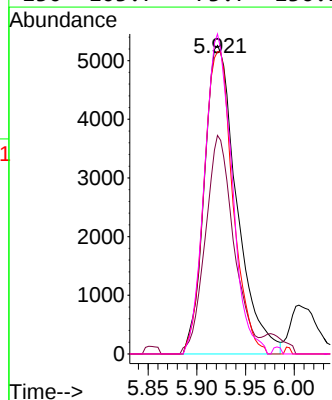
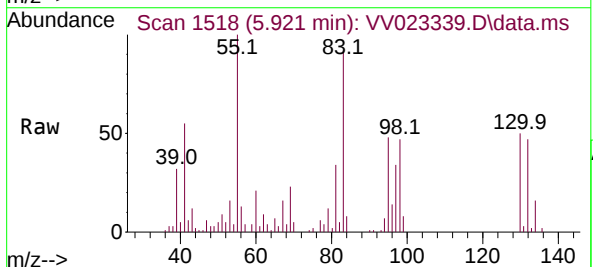
Instrument :
MSVOA_V
ClientSampleId :

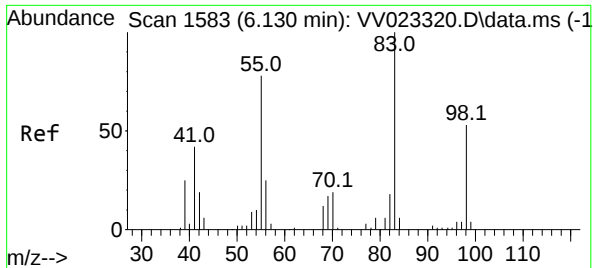
Tgt Ion: 56 Resp: 1377148
Ion Ratio Lower Upper
56 100
69 30.8 23.5 35.3
84 90.1 71.6 107.4



#34
Trichloroethene
Concen: 1.208 ug/L
RT: 5.921 min Scan# 1518
Delta R.T. 0.006 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

Tgt Ion: 95 Resp: 12132
Ion Ratio Lower Upper
95 100
97 70.9 45.0 83.6
132 97.9 69.7 129.4
130 103.7 73.7 136.9

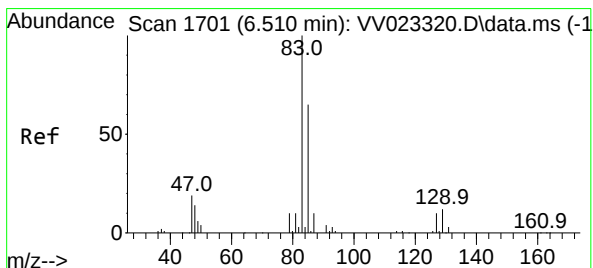
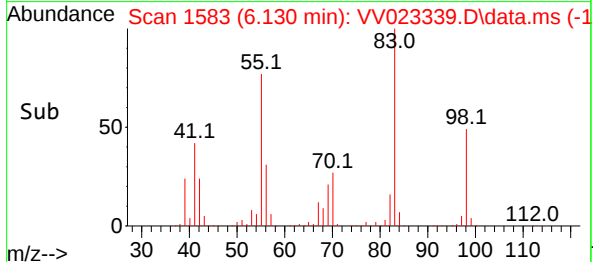
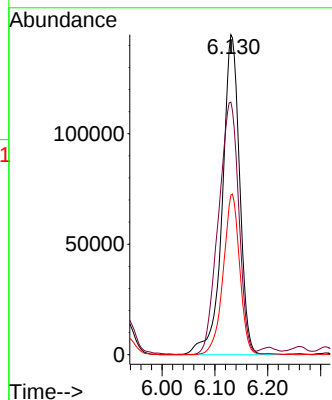
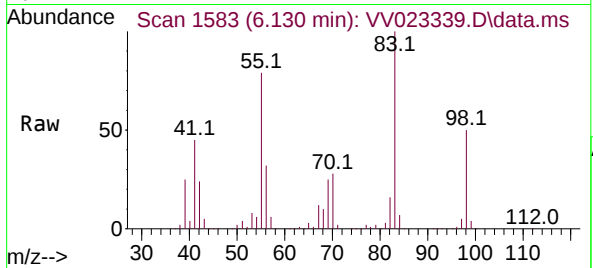




#35
Methylcyclohexane
Concen: 20.801 ug/L
RT: 6.130 min Scan# 11
Delta R.T. 0.000 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

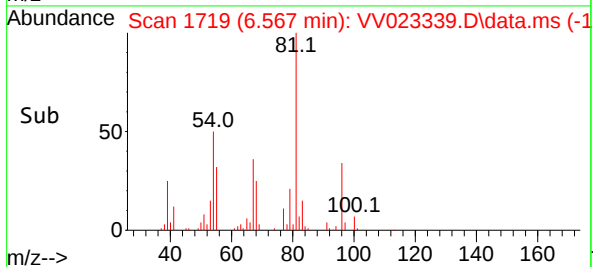
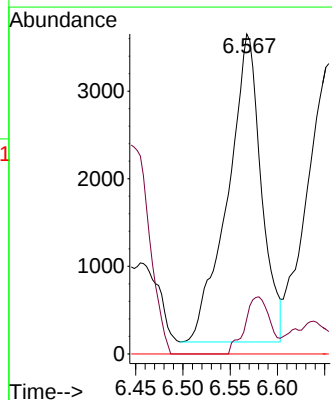
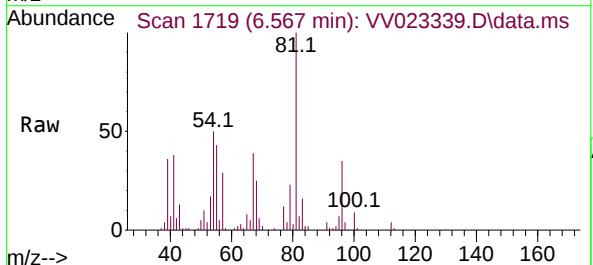
Instrument :
MSVOA_V
ClientSampleId :

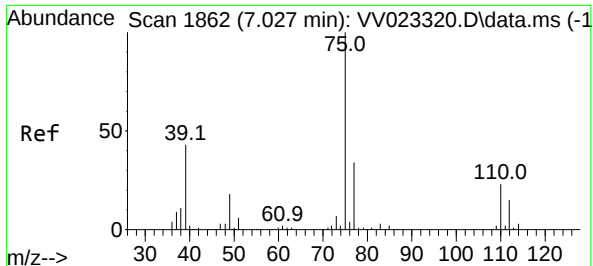
Tgt Ion: 83 Resp: 329838
Ion Ratio Lower Upper
83 100
55 92.2 62.8 94.2
98 47.8 37.9 56.9



#38
Bromodichloromethane
Concen: 0.731 ug/L
RT: 6.567 min Scan# 1719
Delta R.T. 0.058 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

Tgt Ion: 83 Resp: 8643
Ion Ratio Lower Upper
83 100
85 10.9 46.1 85.7#
127 0.0 7.2 10.8#





#39

cis-1,3-Dichloropropene

Concen: 0.123 ug/L

RT: 6.992 min Scan# 11

Delta R.T. -0.035 min

Lab File: VV023339.D

Acq: 10 Nov 2021 18:03

Instrument :

MSVOA_V

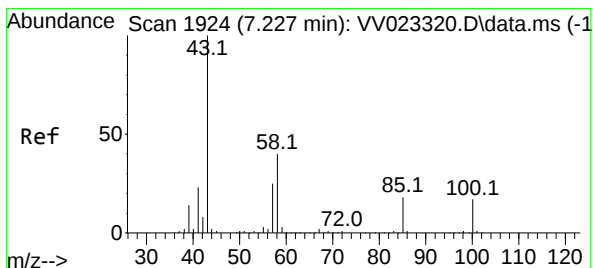
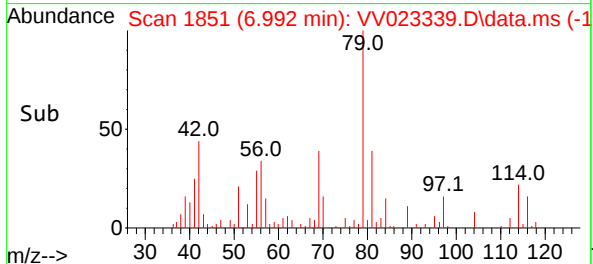
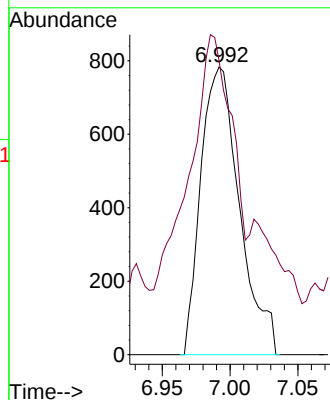
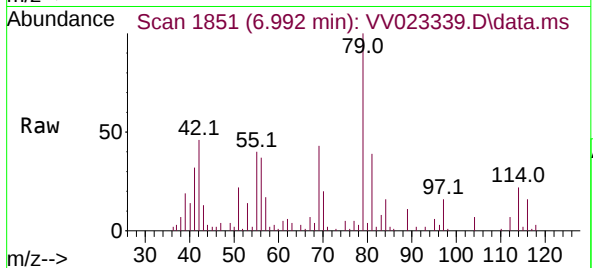
ClientSampleId :

Tgt Ion: 75 Resp: 1558

Ion Ratio Lower Upper

75 100

77 102.2 21.6 40.2#



#40

4-Methyl-2-pentanone

Concen: 2.458 ug/L

RT: 7.265 min Scan# 1936

Delta R.T. 0.039 min

Lab File: VV023339.D

Acq: 10 Nov 2021 18:03

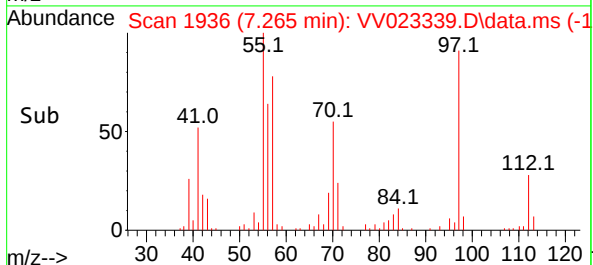
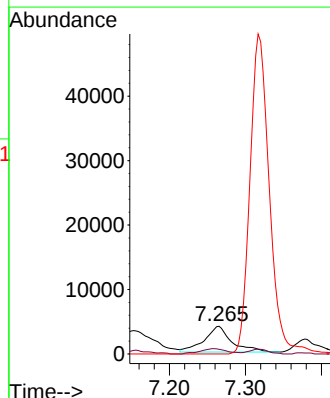
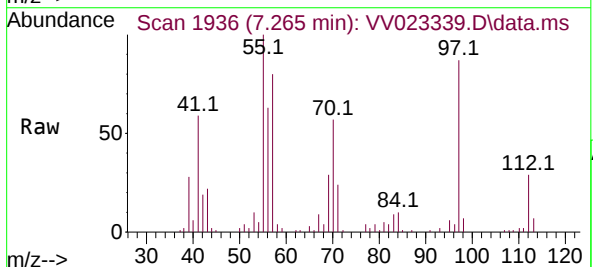
Tgt Ion: 43 Resp: 10053

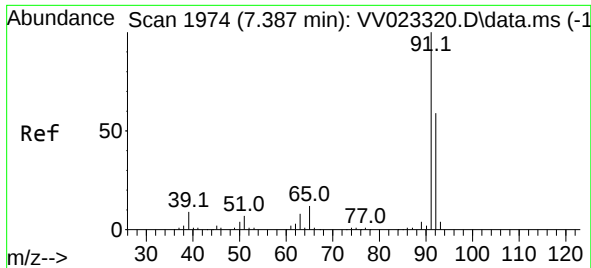
Ion Ratio Lower Upper

43 100

58 20.1 31.1 46.7#

100 0.0 12.6 19.0#

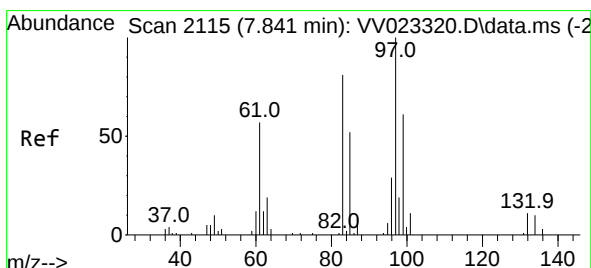
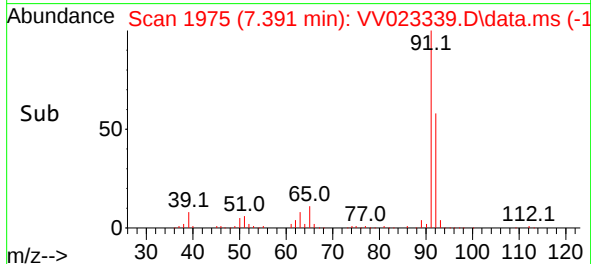
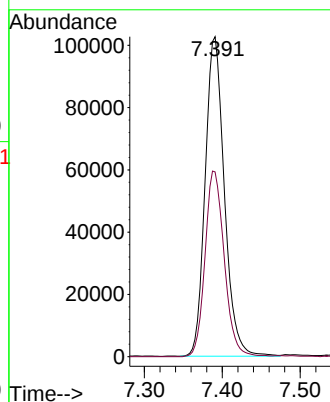
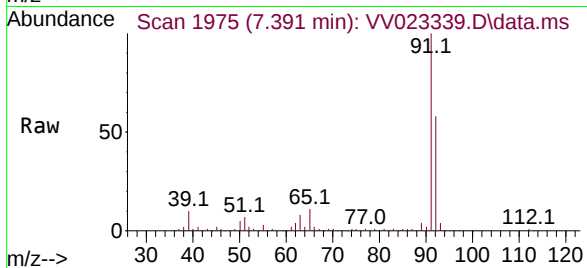




#42
Toluene
Concen: 4.353 ug/L
RT: 7.391 min Scan# 1974
Delta R.T. 0.003 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

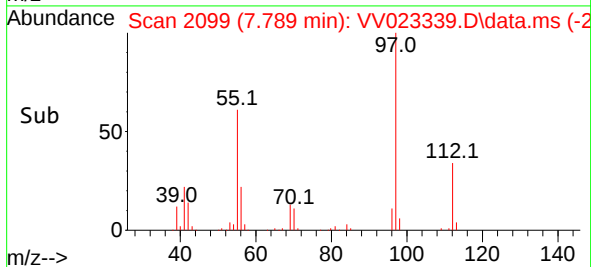
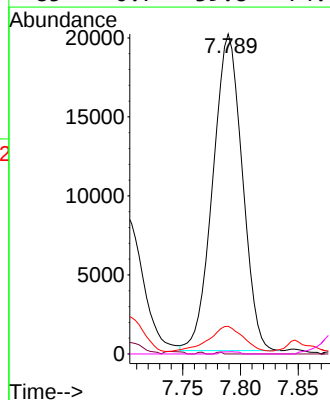
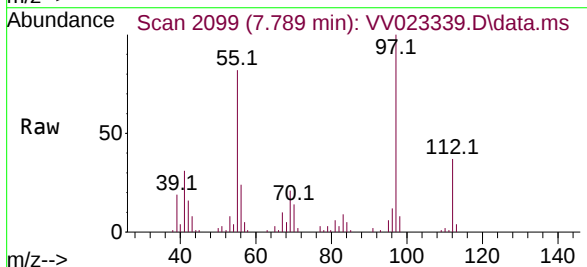
Instrument :
MSVOA_V
ClientSampleId :

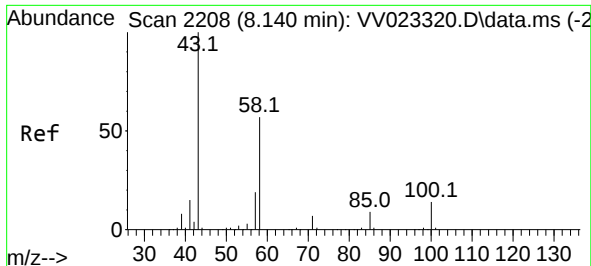
Tgt Ion: 91 Resp: 175900
Ion Ratio Lower Upper
91 100
92 57.7 39.3 72.9



#45
1,1,2-Trichloroethane
Concen: 5.594 ug/L
RT: 7.789 min Scan# 2099
Delta R.T. -0.051 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

Tgt Ion: 97 Resp: 35448
Ion Ratio Lower Upper
97 100
99 0.0 43.6 81.0#
83 8.6 58.4 108.4#
85 0.7 39.8 74.0#

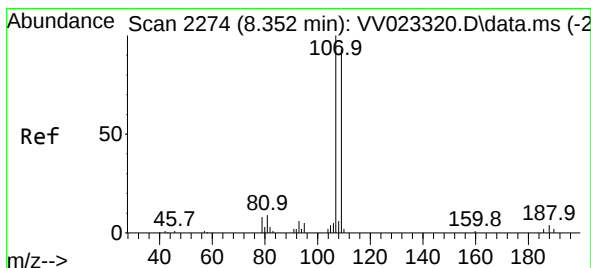
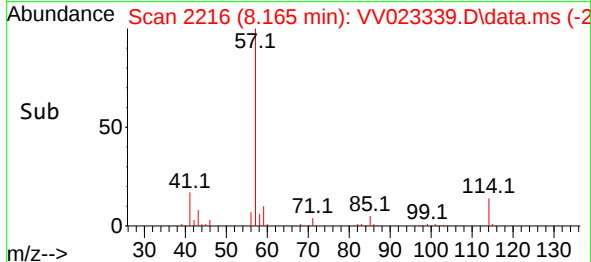
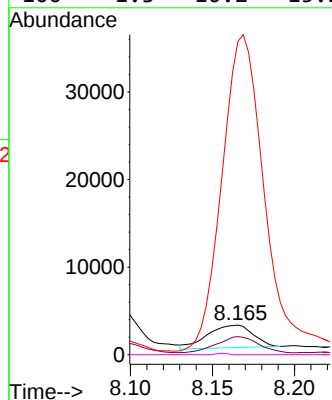
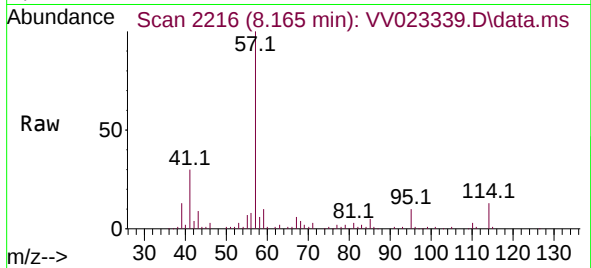




#48
2-Hexanone
Concen: 1.733 ug/L
RT: 8.165 min Scan# 21
Delta R.T. 0.026 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

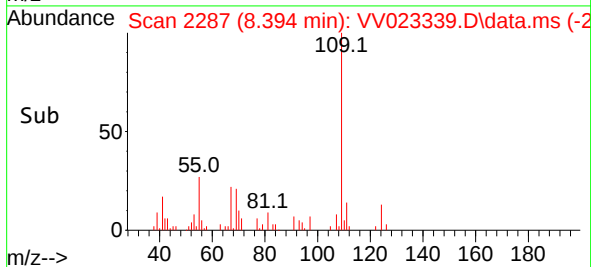
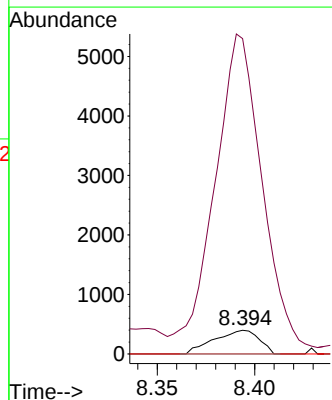
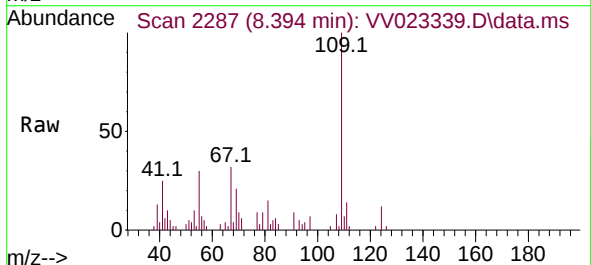
Instrument :
MSVOA_V
ClientSampleId :

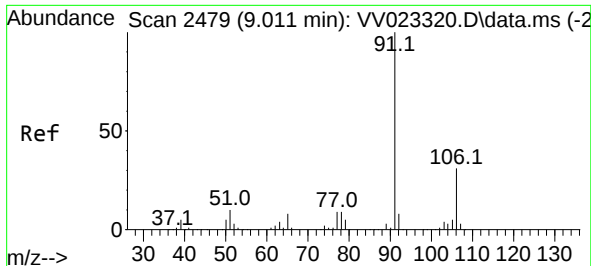
Tgt Ion: 43 Resp: 4967
Ion Ratio Lower Upper
43 100
58 77.3 43.7 65.5#
57 1320.8 14.1 21.1#
100 1.3 10.2 15.2#



#50
1,2-Dibromoethane
Concen: 0.109 ug/L
RT: 8.394 min Scan# 2287
Delta R.T. 0.042 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

Tgt Ion: 107 Resp: 643
Ion Ratio Lower Upper
107 100
109 1331.4 64.7 120.1#
188 0.0 3.6 5.4#

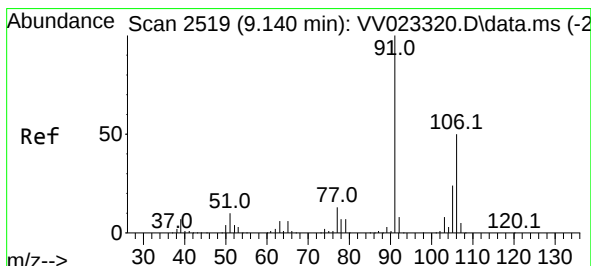
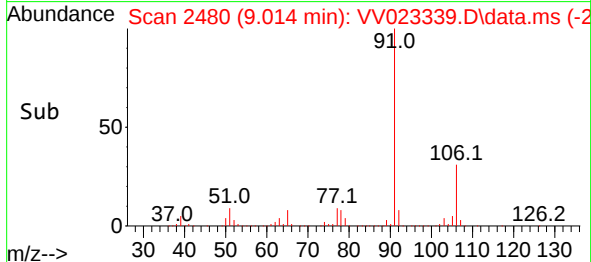
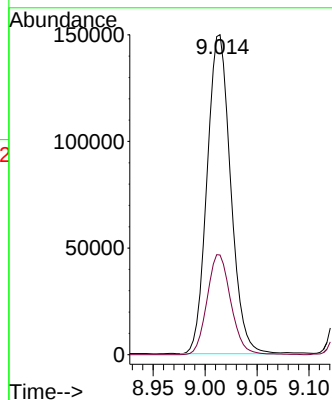
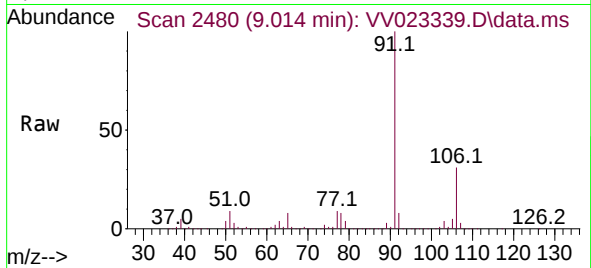




#52
Ethylbenzene
Concen: 5.538 ug/L
RT: 9.014 min Scan# 2479
Delta R.T. 0.003 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

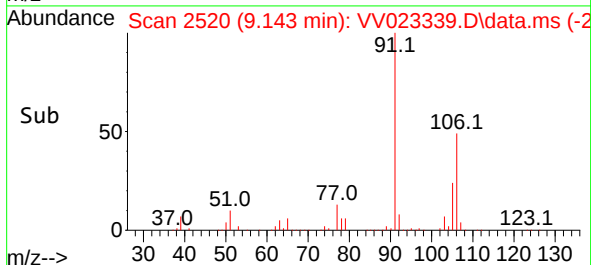
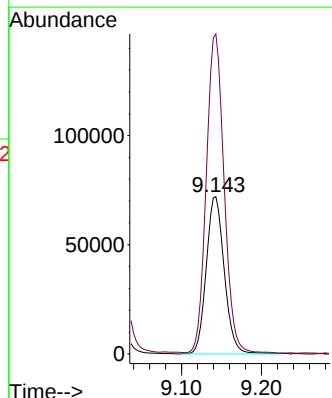
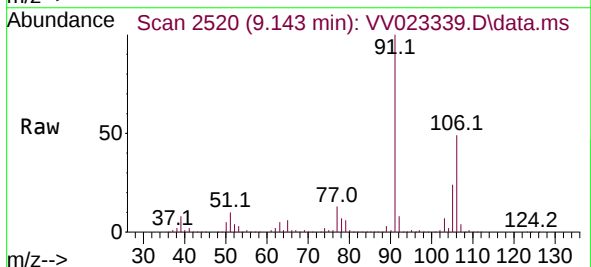
Instrument :
MSVOA_V
ClientSampleId :

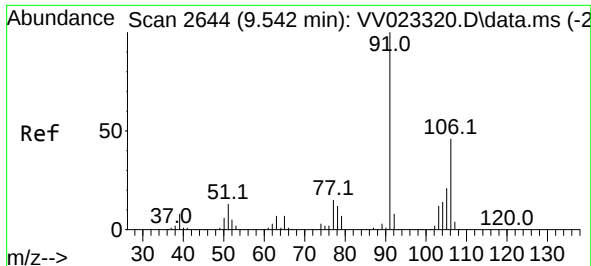
Tgt Ion: 91 Resp: 235998
Ion Ratio Lower Upper
91 100
106 31.2 22.5 41.9



#53
m,p-xylene
Concen: 6.784 ug/L
RT: 9.143 min Scan# 2520
Delta R.T. 0.003 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

Tgt Ion: 106 Resp: 113468
Ion Ratio Lower Upper
106 100
91 203.4 137.2 254.8

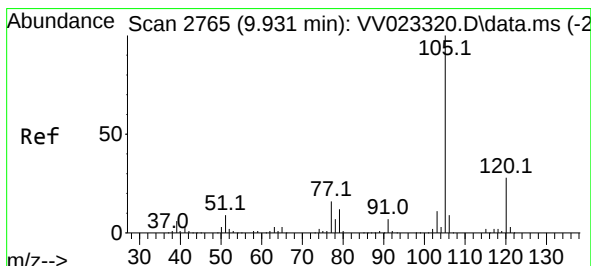
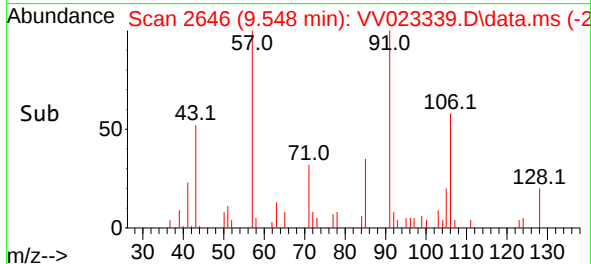
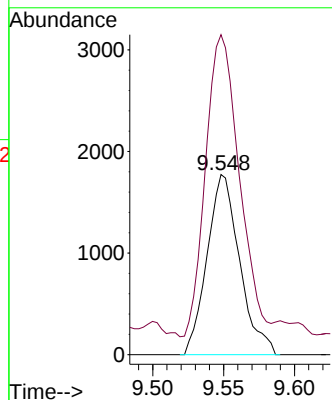
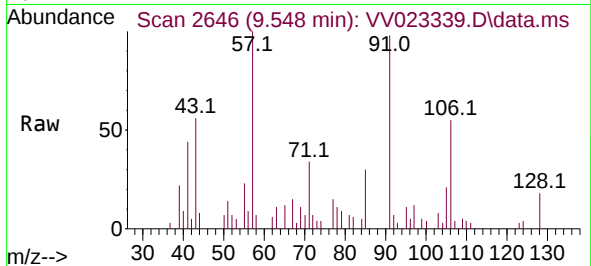




#54
o-xylene
Concen: 0.180 ug/L
RT: 9.548 min Scan# 20
Delta R.T. 0.006 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

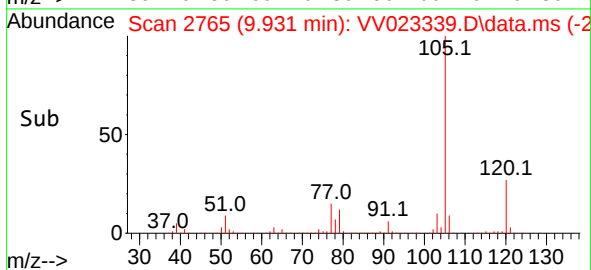
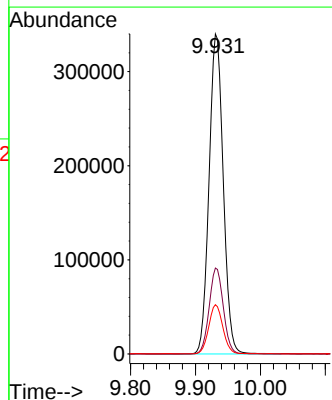
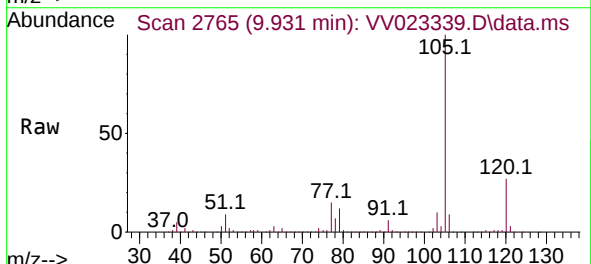
Instrument :
MSVOA_V
ClientSampleId :

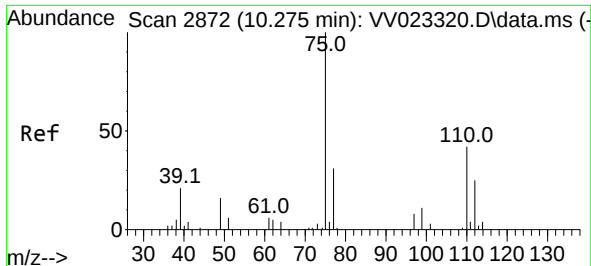
Tgt Ion:106 Resp: 2827
Ion Ratio Lower Upper
106 100
91 177.7 148.3 275.5



#60
Isopropylbenzene
Concen: 12.842 ug/L
RT: 9.931 min Scan# 2765
Delta R.T. 0.000 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

Tgt Ion:105 Resp: 517413
Ion Ratio Lower Upper
105 100
120 26.7 21.7 32.5
77 15.3 12.6 19.0

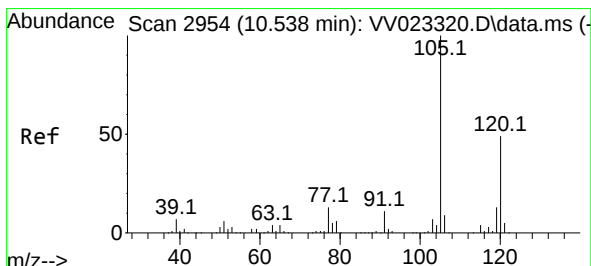
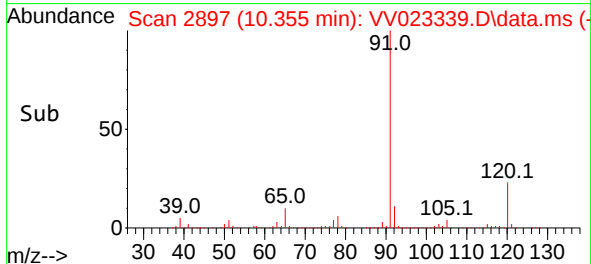
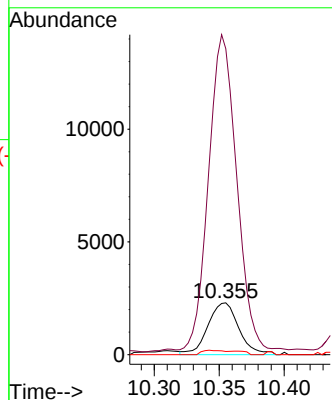
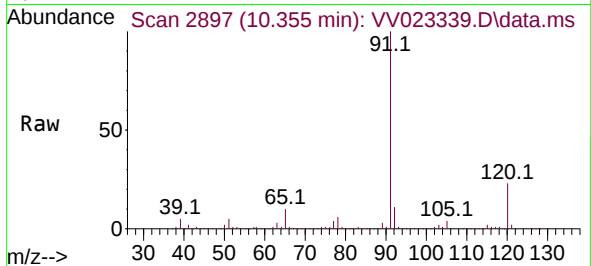




#61
1,2,3-Trichloropropane
Concen: 0.813 ug/L
RT: 10.355 min Scan# 21
Delta R.T. 0.080 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

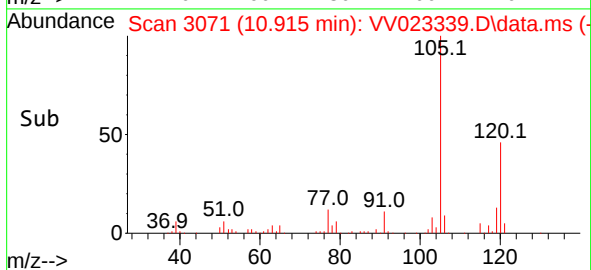
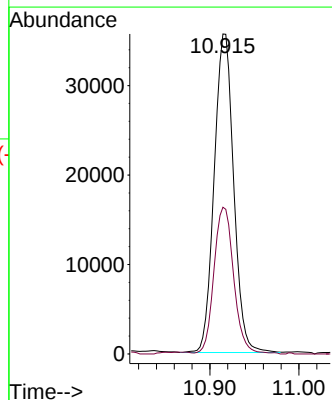
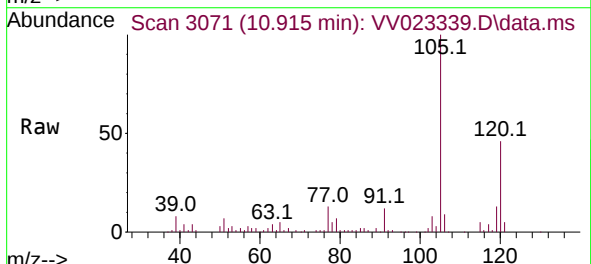
Instrument :
MSVOA_V
ClientSampleId :

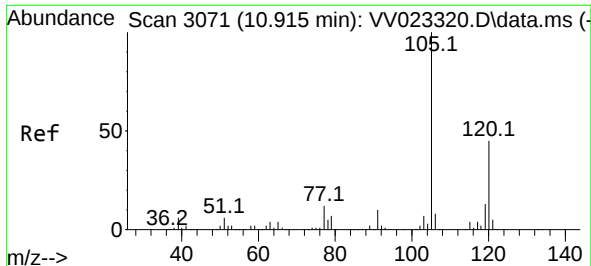
Tgt Ion: 75 Resp: 3794
Ion Ratio Lower Upper
75 100
77 551.4 26.6 39.8#
110 6.7 31.8 47.6#



#62
1,3,5-Trimethylbenzene
Concen: 1.623 ug/L
RT: 10.915 min Scan# 3071
Delta R.T. 0.376 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

Tgt Ion: 105 Resp: 54215
Ion Ratio Lower Upper
105 100
120 46.8 39.7 59.5

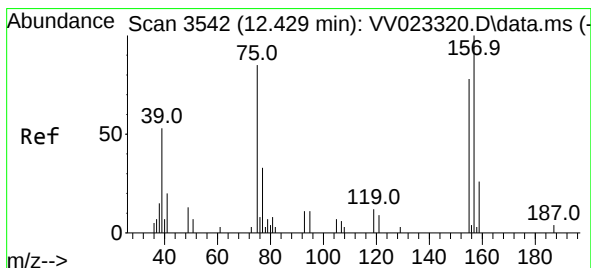
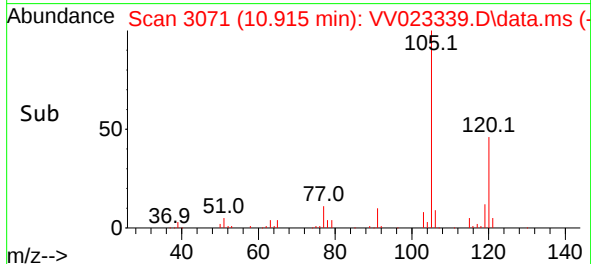
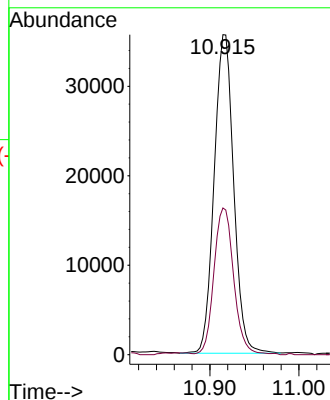
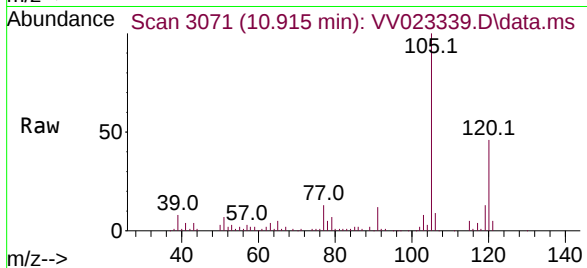




#63
 1,2,4-Trimethylbenzene
 Concen: 1.630 ug/L
 RT: 10.915 min Scan# 3071
 Delta R.T. 0.000 min
 Lab File: VV023339.D
 Acq: 10 Nov 2021 18:03

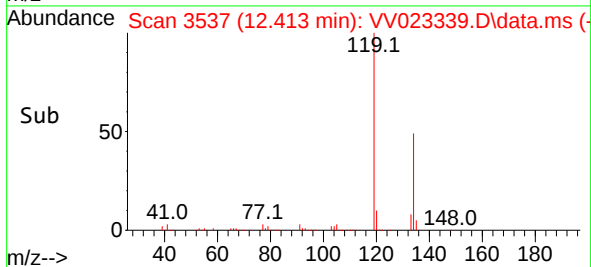
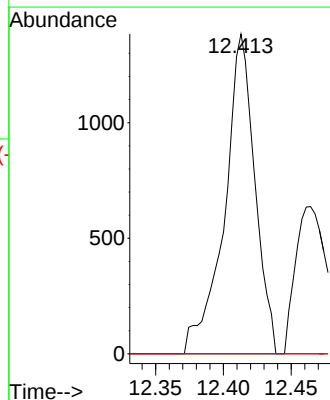
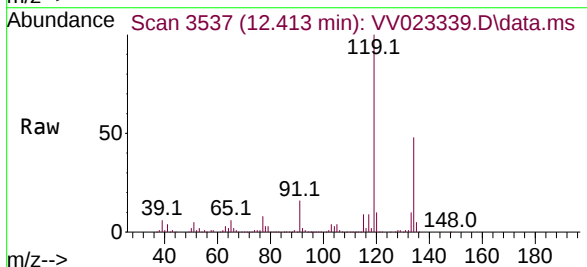
Instrument :
 MSVOA_V
 ClientSampleId :

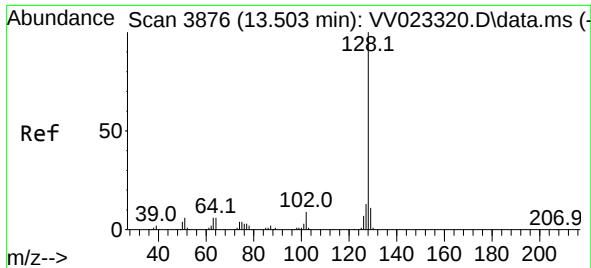
Tgt Ion:105 Resp: 54215
 Ion Ratio Lower Upper
 105 100
 120 46.8 37.4 56.2



#68
 1,2-Dibromo-3-chloropropane
 Concen: 2.172 ug/L
 RT: 12.413 min Scan# 3537
 Delta R.T. -0.016 min
 Lab File: VV023339.D
 Acq: 10 Nov 2021 18:03

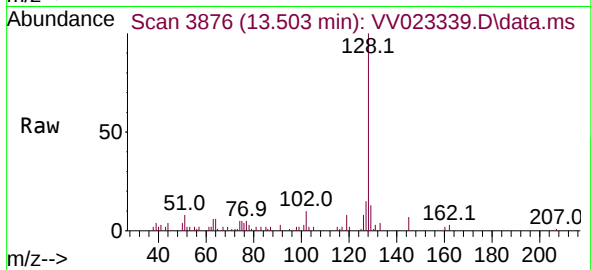
Tgt Ion: 75 Resp: 2158
 Ion Ratio Lower Upper
 75 100
 155 0.0 67.7 101.5#
 157 0.0 87.9 131.9#





#71
Naphthalene
Concen: 0.838 ug/L
RT: 13.503 min Scan# 3876
Delta R.T. 0.000 min
Lab File: VV023339.D
Acq: 10 Nov 2021 18:03

Instrument :
MSVOA_V
ClientSampleId :



Tgt Ion:128 Resp: 15946
Ion Ratio Lower Upper
128 100
129 18.9 8.6 13.0#
127 15.1 10.5 15.7

