

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011422\
 Data File : VX026452.D
 Acq On : 14 Jan 2022 13:47
 Operator : JC/MD
 Sample : N1149-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 6NINF-0122

Quant Time: Jan 17 05:58:19 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 10 12:50:55 2022
 Response via : Initial Calibration

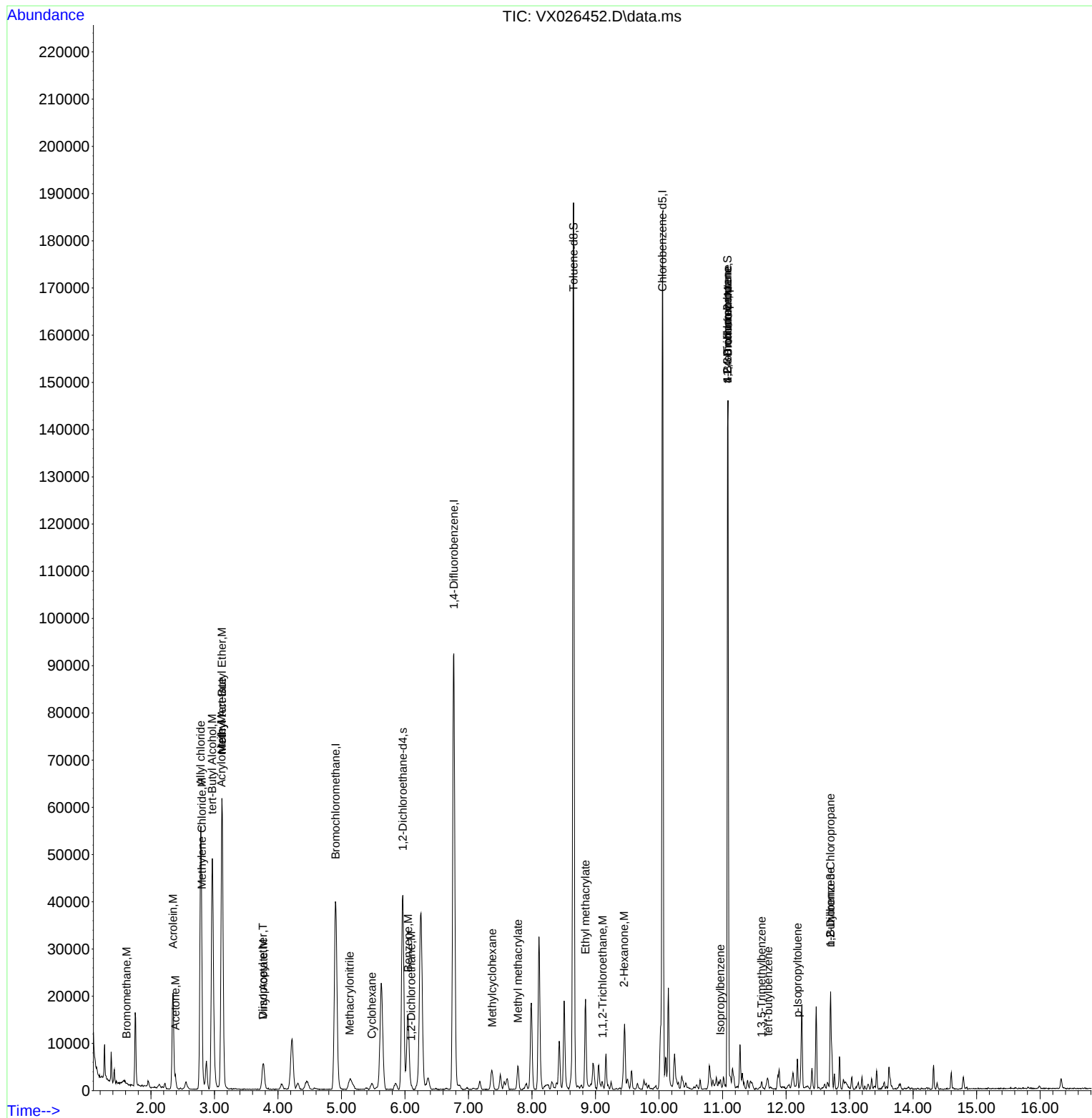
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	4.910	128	16873	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	93111	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	81550	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	40602	29.925	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.767%
60) 4-Bromofluorobenzene	11.079	95	40925	30.070	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.233%
63) Toluene-d8	8.653	98	109380	29.197	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.333%
Target Compounds						
					Qvalue	
5) Bromomethane	1.618	94	133	0.301	ug/l #	53
12) Methyl Acetate	3.117	43	14644	7.707	ug/l	100
13) Acrolein	2.349	56	2694	13.681	ug/l #	76
14) Acrylonitrile	3.111	53	679	1.281	ug/l #	23
15) Acetone	2.386	58	783	4.703	ug/l	97
17) Allyl chloride	2.782	41	16360	9.372	ug/l #	61
18) Methylene Chloride	2.800	84	207	0.207	ug/l #	1
20) Diisopropyl ether	3.764	45	6416	1.891	ug/l #	83
23) tert-Butyl Alcohol	2.965	59	62482	325.018	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	66180	19.621	ug/l	98
26) Cyclohexane	5.477	56	927	0.543	ug/l #	67
34) Benzene	6.050	78	18630	4.672	ug/l	97
35) Methacrylonitrile	5.129	41	487	0.557	ug/l #	43
36) 1,2-Dichloroethane	6.099	62	672	0.417	ug/l #	76
38) Methylcyclohexane	7.373	83	901	0.523	ug/l #	1
42) Vinyl Acetate	3.770	43	3154	1.219	ug/l #	75
46) Methyl methacrylate	7.781	41	847	0.689	ug/l	79
50) 1,1,2-Trichloroethane	9.110	97	690	0.701	ug/l #	17
51) Ethyl methacrylate	8.842	69	2864	1.824	ug/l	87
56) Bromoform	11.085	173	334	0.470	ug/l #	1
59) 2-Hexanone	9.452	43	1253	1.064	ug/l #	1
70) Isopropylbenzene	10.964	105	973	0.207	ug/l	96
72) 1,2,3-Trichloropropane	11.079	75	20639	15.857	ug/l	39
76) 1,3,5-Trimethylbenzene	11.616	105	892	0.227	ug/l	69
77) t-1,4-Dichloro-2-butene	11.079	75	20639	52.723	ug/l #	3
79) tert-butylbenzene	11.719	119	790	0.217	ug/l	91
82) p-Isopropyltoluene	12.183	119	2822	0.700	ug/l	97
85) n-Butylbenzene	12.701	91	1723	0.494	ug/l	47
88) 1,2-Dibromo-3-Chloropr...	12.701	75	187	0.571	ug/l #	3

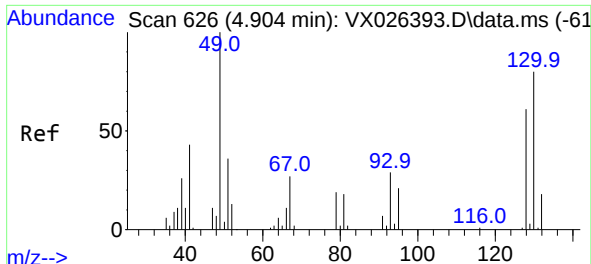
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011422\
Data File : VX026452.D
Acq On : 14 Jan 2022 13:47
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Sample : N1149-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
6NINF-0122

Quant Time: Jan 17 05:58:19 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011022W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Jan 10 12:50:55 2022
Response via : Initial Calibration

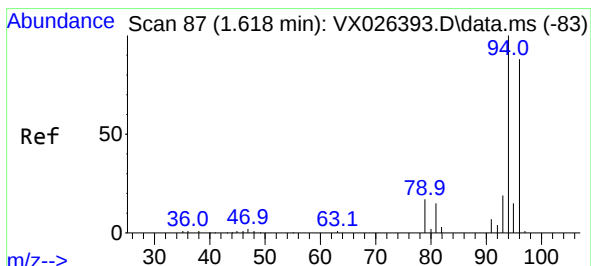
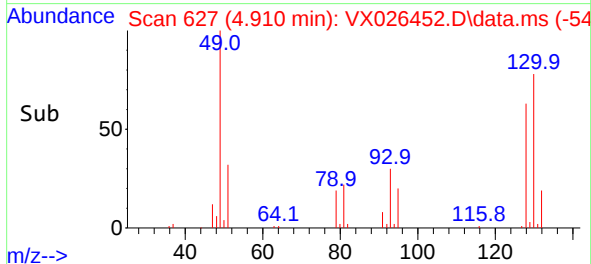
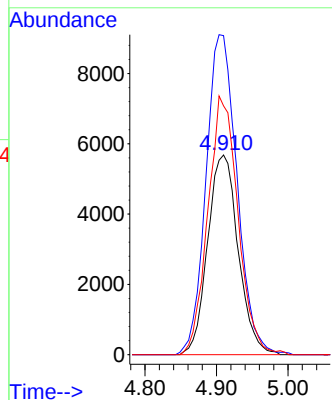
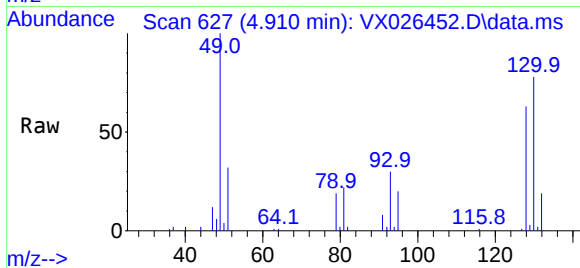




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.910 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

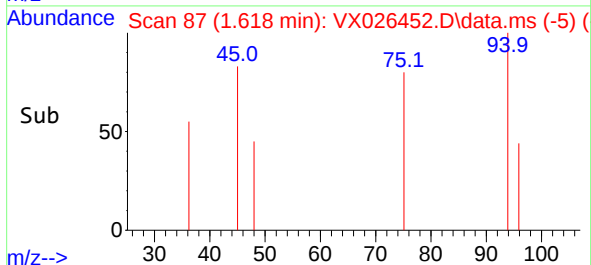
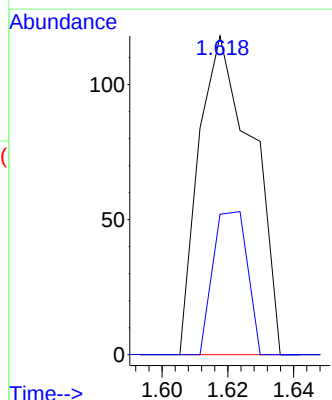
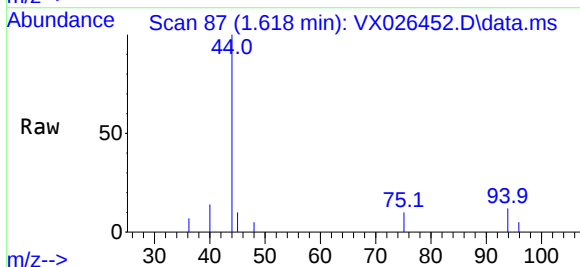
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0122

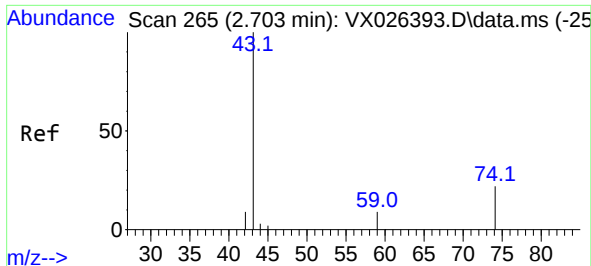
Tgt Ion:128 Resp: 16873
Ion Ratio Lower Upper
128 100
49 162.5 0.0 413.5
130 127.3 0.0 326.0



#5
Bromomethane
Concen: 0.301 ug/l
RT: 1.618 min Scan# 87
Delta R.T. 0.000 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

Tgt Ion: 94 Resp: 133
Ion Ratio Lower Upper
94 100
96 44.1 70.3 105.5#

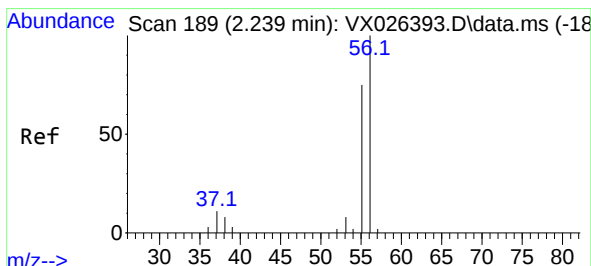
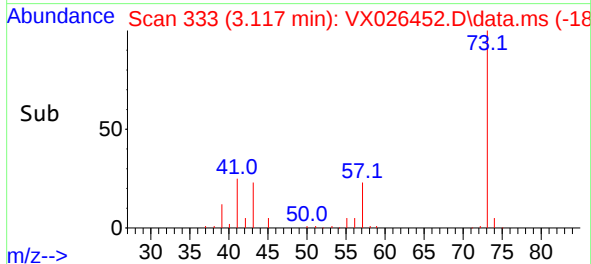
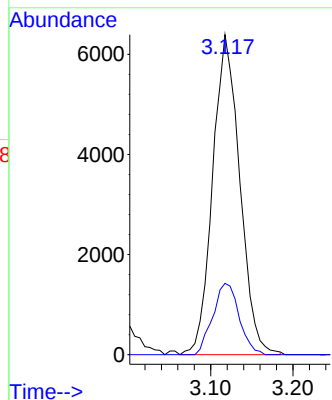
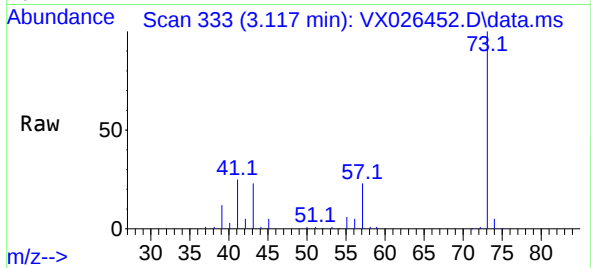




#12
Methyl Acetate
Concen: 7.707 ug/l
RT: 3.117 min Scan# 31
Delta R.T. 0.415 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

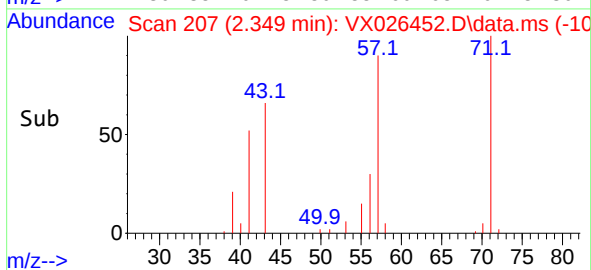
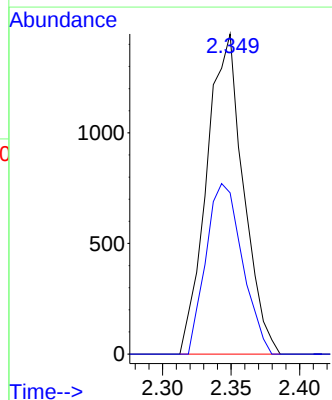
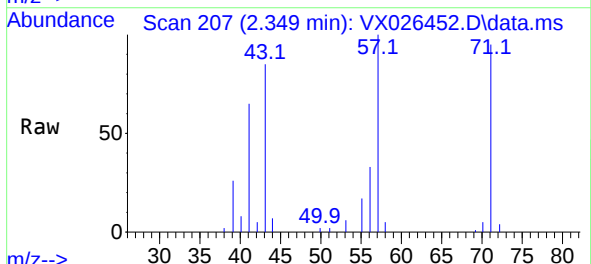
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0122

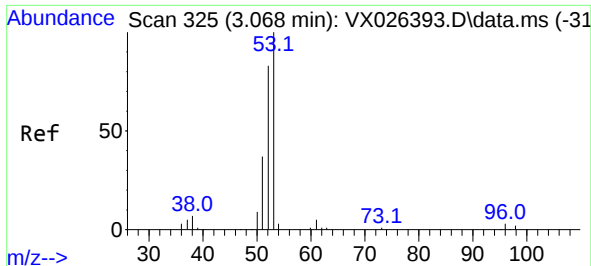
Tgt Ion: 43 Resp: 14644
Ion Ratio Lower Upper
43 100
74 22.4 17.8 26.6



#13
Acrolein
Concen: 13.681 ug/l
RT: 2.349 min Scan# 207
Delta R.T. 0.110 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

Tgt Ion: 56 Resp: 2694
Ion Ratio Lower Upper
56 100
55 52.8 58.2 87.2#





#14

Acrylonitrile

Concen: 1.281 ug/l

RT: 3.111 min Scan# 31

Delta R.T. 0.043 min

Lab File: VX026452.D

Acq: 14 Jan 2022 13:47

Instrument :

MSVOA_X

ClientSampleId :

6NINF-0122

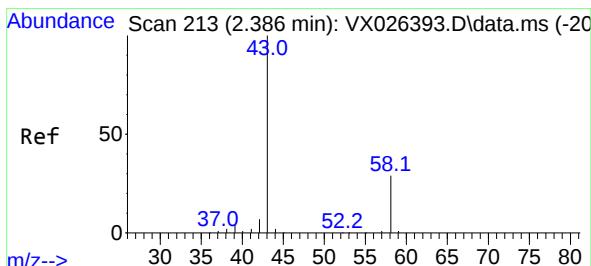
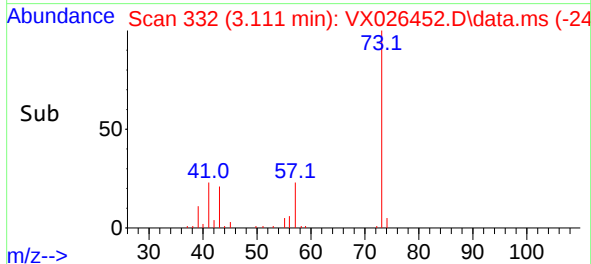
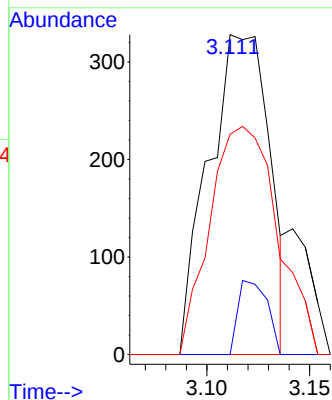
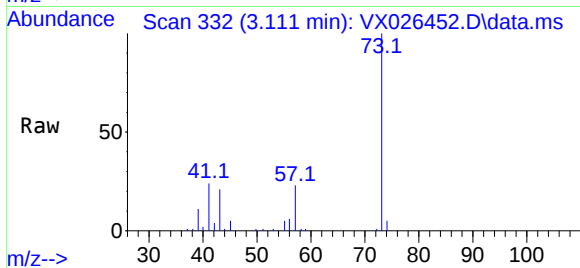
Tgt Ion: 53 Resp: 679

Ion Ratio Lower Upper

53 100

52 11.0 41.4 124.4#

51 79.1 18.6 56.0#



#15

Acetone

Concen: 4.703 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.000 min

Lab File: VX026452.D

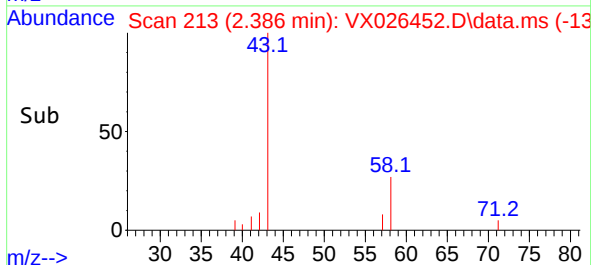
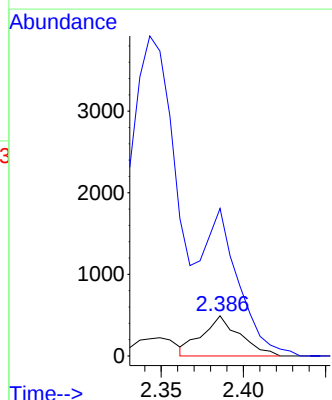
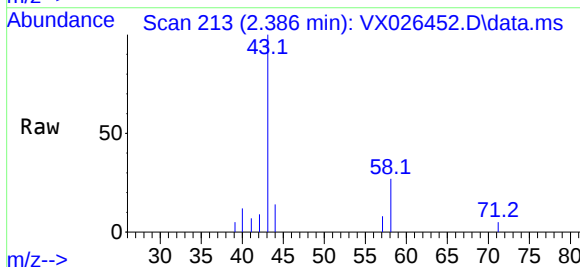
Acq: 14 Jan 2022 13:47

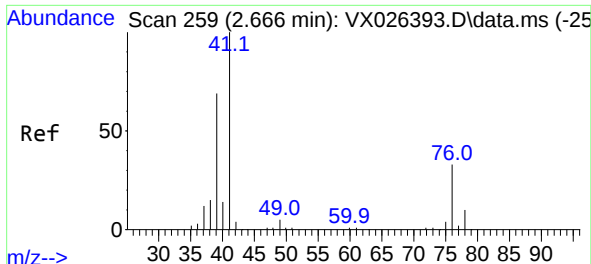
Tgt Ion: 58 Resp: 783

Ion Ratio Lower Upper

58 100

43 351.1 276.3 414.5

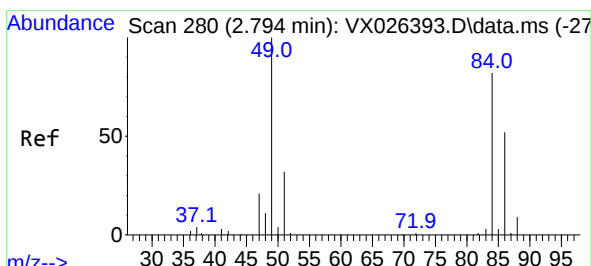
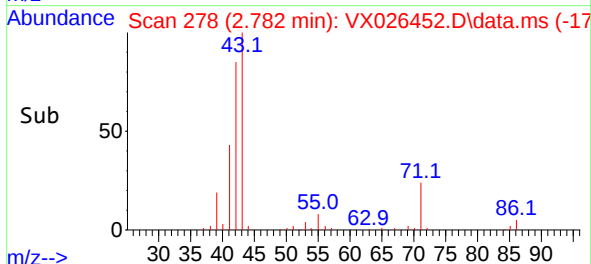
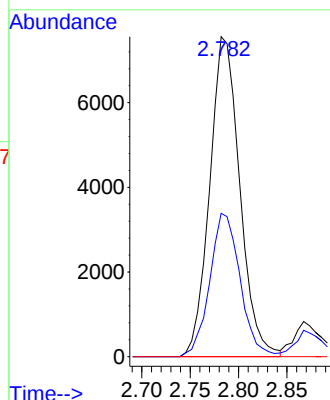
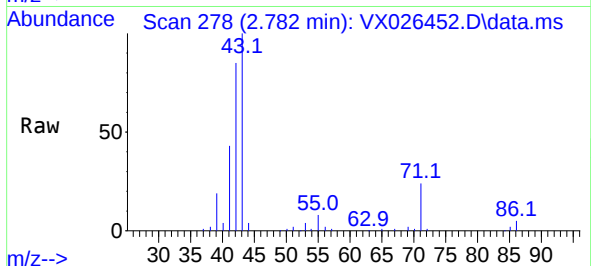




#17
 Allyl chloride
 Concen: 9.372 ug/l
 RT: 2.782 min Scan# 21
 Delta R.T. 0.116 min
 Lab File: VX026452.D
 Acq: 14 Jan 2022 13:47

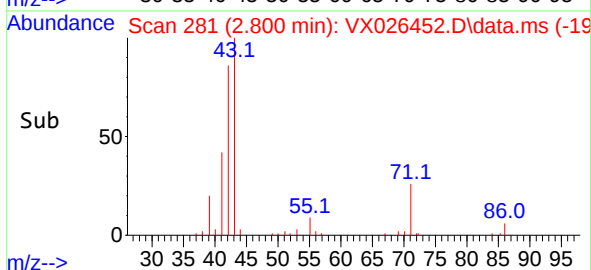
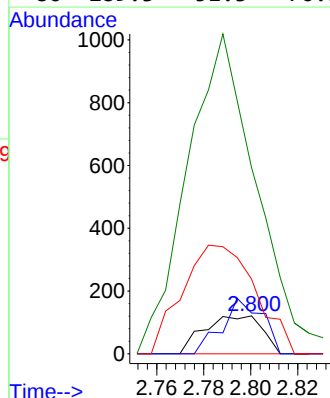
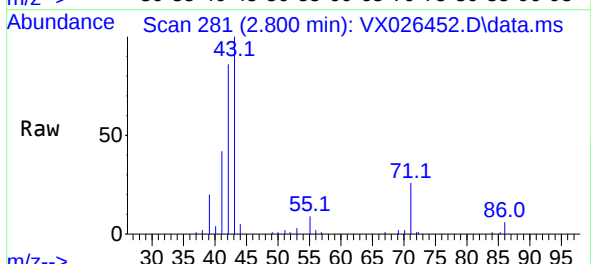
Instrument :
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 ClientSampleId :
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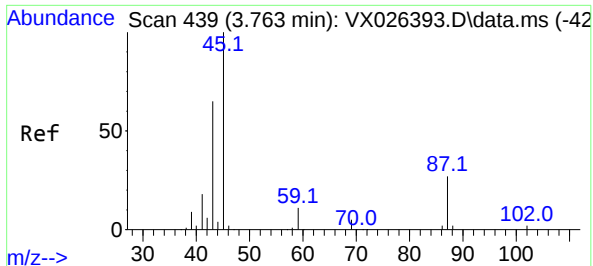
Tgt Ion:	41	Resp:	16360
Ion	Ratio	Lower	Upper
41	100		
39	44.8	34.5	103.5
76	0.0	16.7	50.0#



#18
 Methylene Chloride
 Concen: 0.207 ug/l
 RT: 2.800 min Scan# 281
 Delta R.T. 0.006 min
 Lab File: VX026452.D
 Acq: 14 Jan 2022 13:47

Tgt Ion:	84	Resp:	207
Ion	Ratio	Lower	Upper
84	100		
49	107.4	97.8	146.8
51	105.8	31.1	46.7#
86	289.3	51.3	76.9#

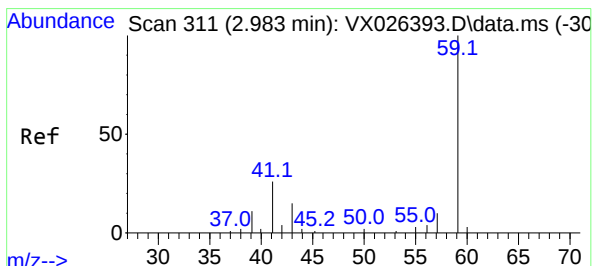
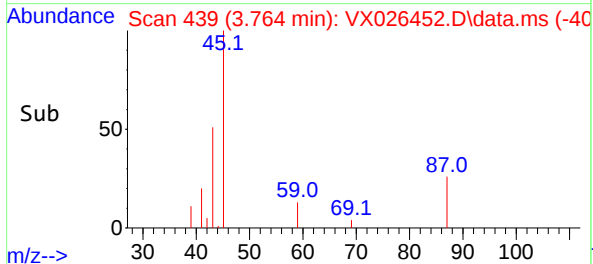
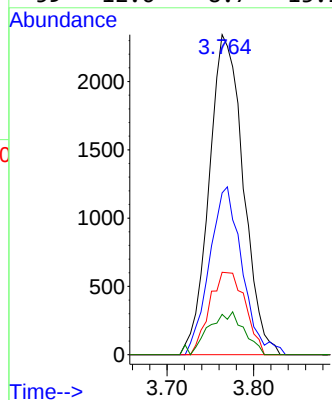
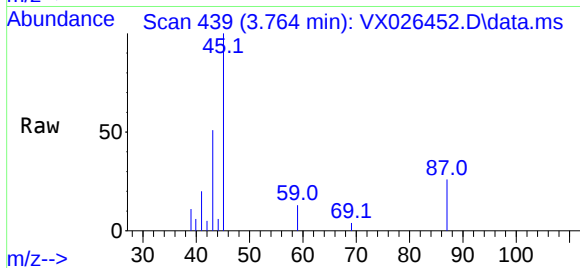




#20
Diisopropyl ether
Concen: 1.891 ug/l
RT: 3.764 min Scan# 41
Delta R.T. 0.000 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

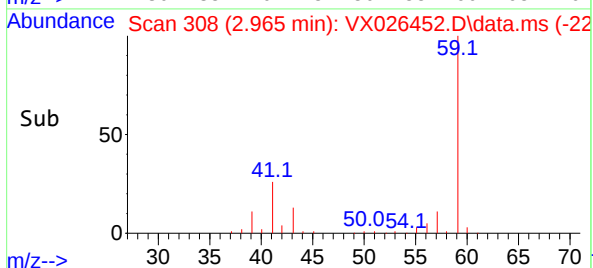
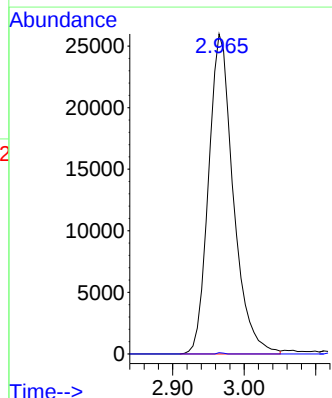
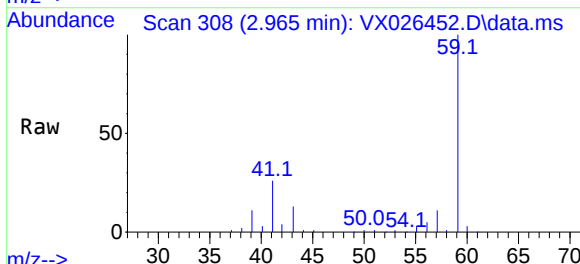
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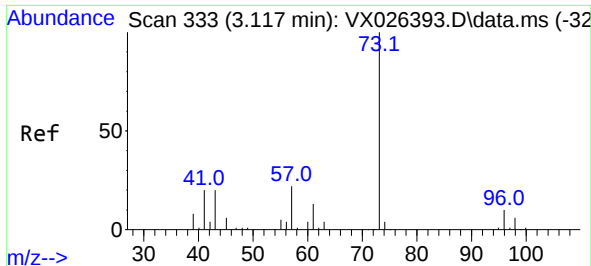
Tgt Ion: 45	Resp: 6416
Ion Ratio	Lower Upper
45 100	
43 50.5	56.2 84.2#
87 25.8	21.5 32.3
59 12.6	8.7 13.1



#23
tert-Butyl Alcohol
Concen: 325.018 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.018 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

Tgt Ion: 59	Resp: 62482		
Ion Ratio	Lower	Upper	
59 100			
52 0.1	0.0	0.0#	

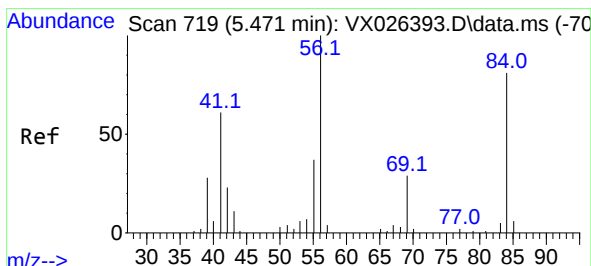
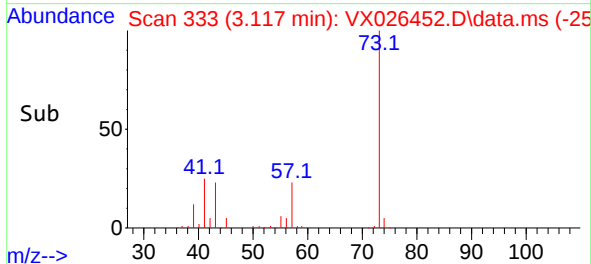
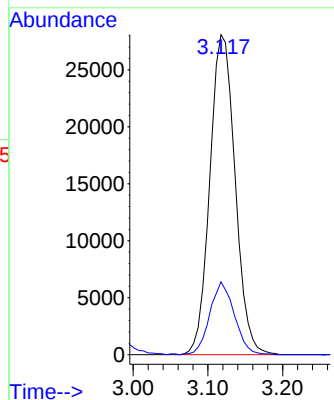
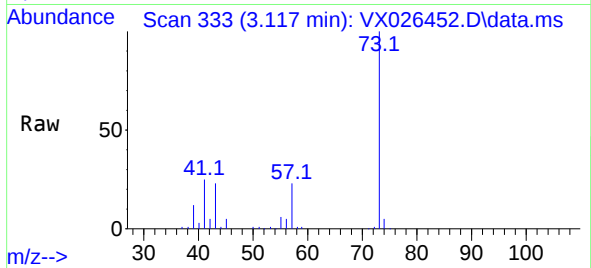




#24
Methyl tert-Butyl Ether
Concen: 19.621 ug/l
RT: 3.117 min Scan# 31
Delta R.T. 0.000 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

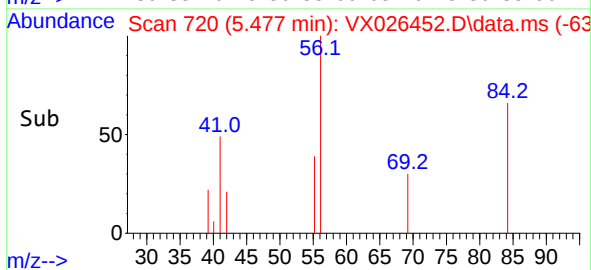
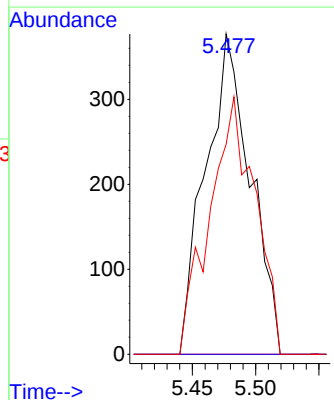
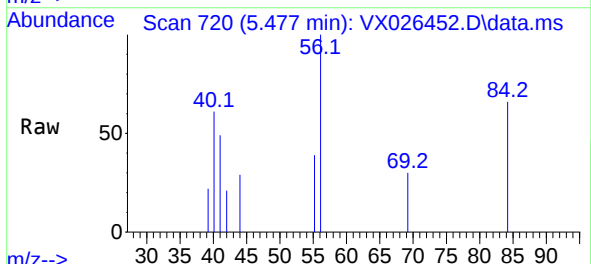
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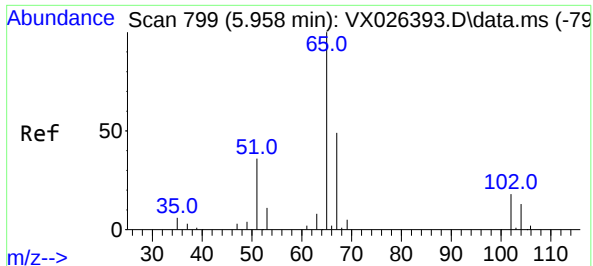
Tgt Ion: 73 Resp: 66180
Ion Ratio Lower Upper
73 100
43 22.1 17.1 25.7



#26
Cyclohexane
Concen: 0.543 ug/l
RT: 5.477 min Scan# 720
Delta R.T. 0.006 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

Tgt Ion: 56 Resp: 927
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 57.2 70.6 106.0#

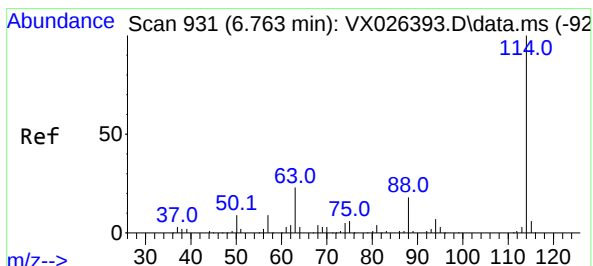
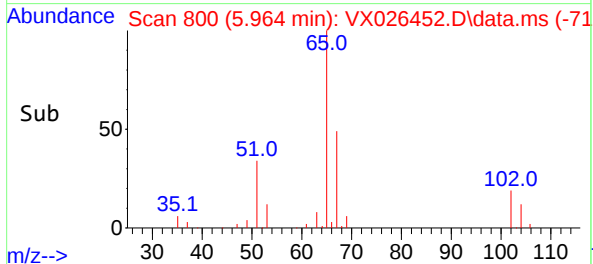
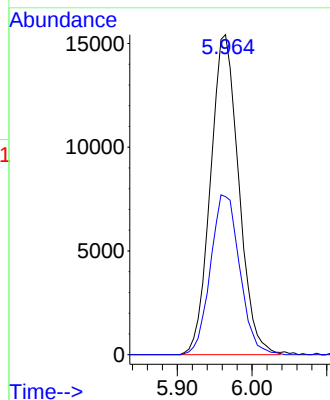
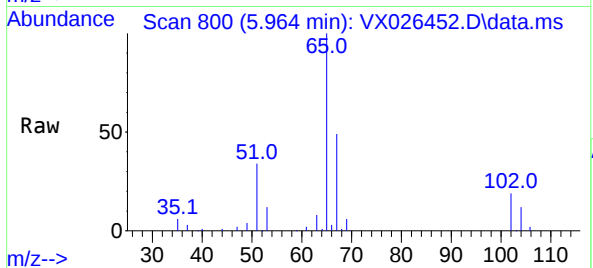




#27
1,2-Dichloroethane-d4
Concen: 29.925 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.006 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

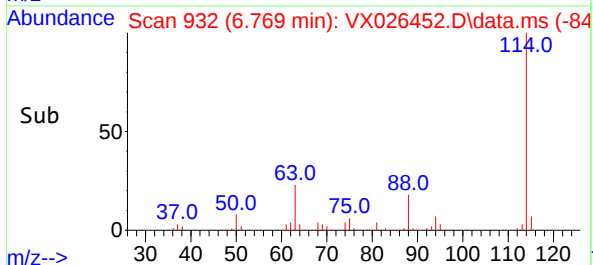
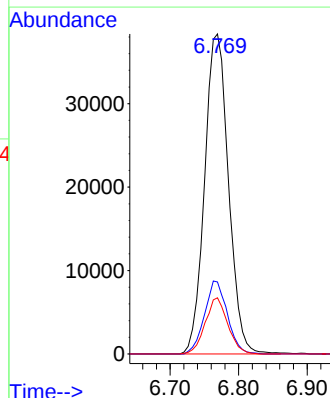
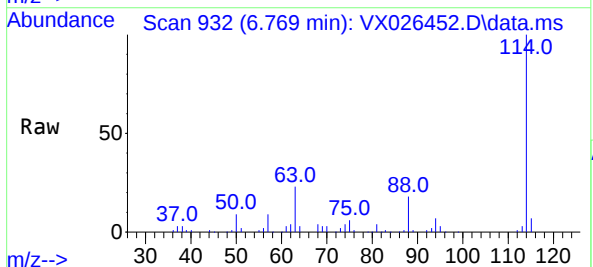
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0122

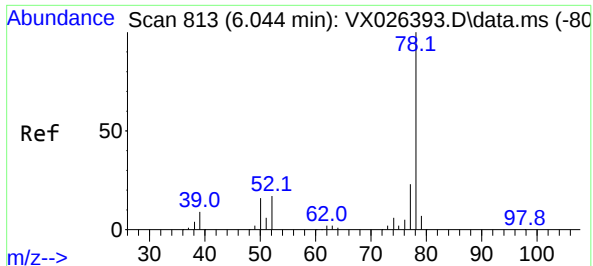
Tgt Ion: 65 Resp: 40602
Ion Ratio Lower Upper
65 100
67 51.7 39.6 59.4



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.769 min Scan# 932
Delta R.T. 0.006 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

Tgt Ion: 114 Resp: 93111
Ion Ratio Lower Upper
114 100
63 21.8 17.4 26.2
88 16.6 13.5 20.3

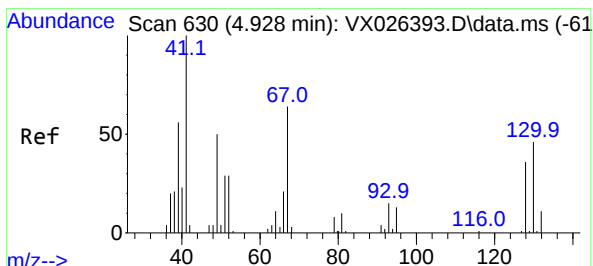
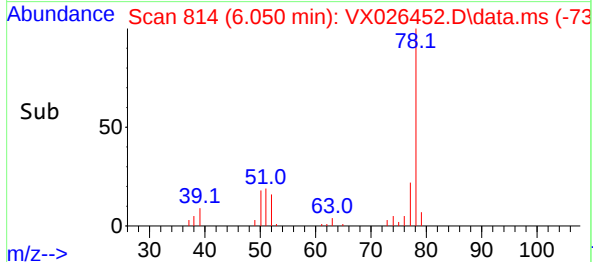
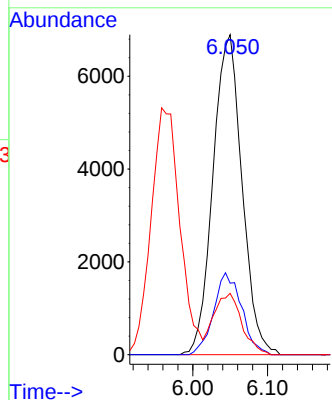
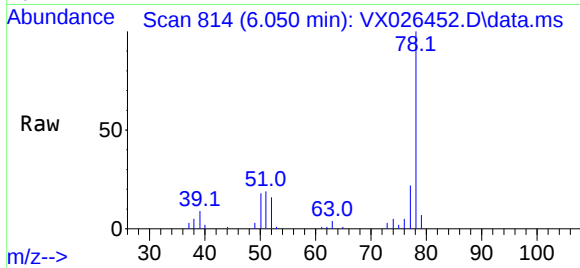




#34
Benzene
Concen: 4.672 ug/l
RT: 6.050 min Scan# 813
Delta R.T. 0.006 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

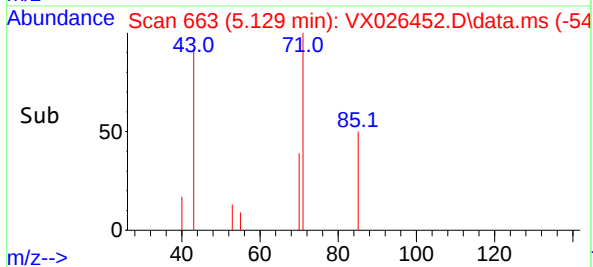
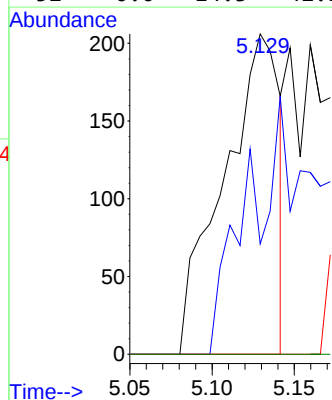
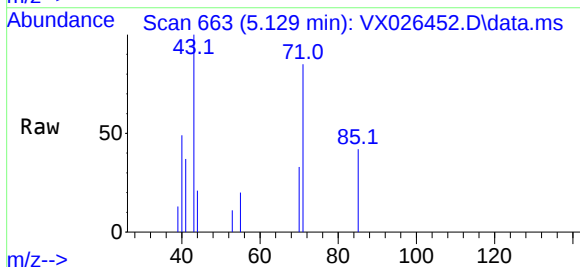
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0122

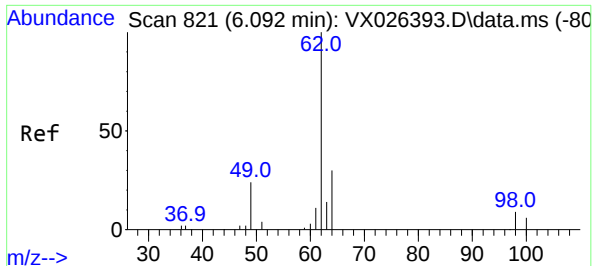
Tgt Ion: 78 Resp: 18630
Ion Ratio Lower Upper
78 100
77 22.3 18.7 28.1
51 19.1 13.5 20.3



#35
Methacrylonitrile
Concen: 0.557 ug/l
RT: 5.129 min Scan# 663
Delta R.T. 0.201 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

Tgt Ion: 41 Resp: 487
Ion Ratio Lower Upper
41 100
39 34.5 27.8 83.4
67 0.0 32.1 96.3#
52 0.0 14.3 42.9#

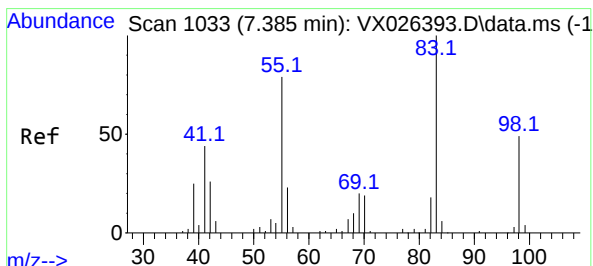
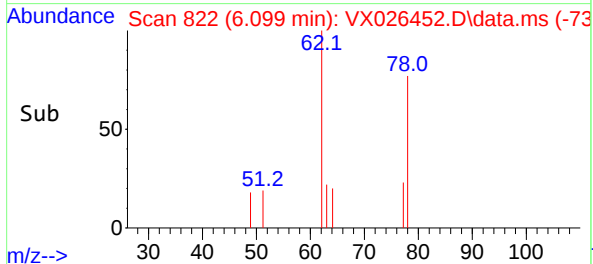
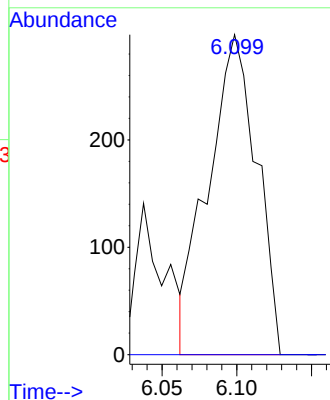
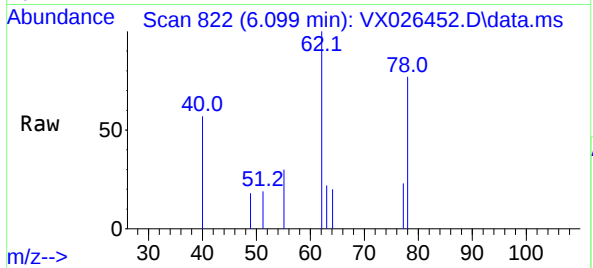




#36
1,2-Dichloroethane
Concen: 0.417 ug/l
RT: 6.099 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

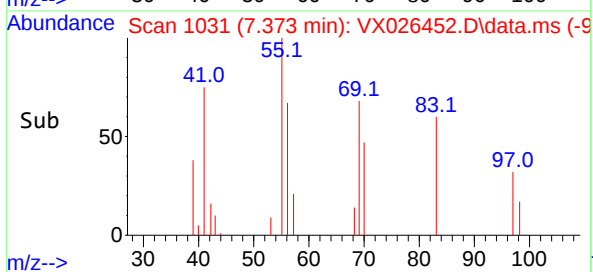
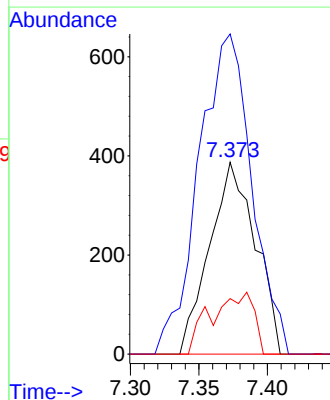
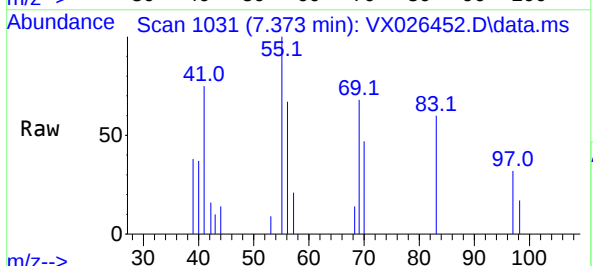
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0122

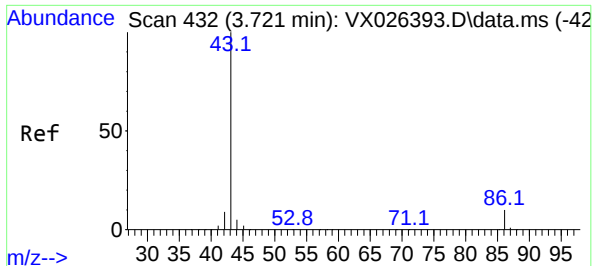
Tgt Ion: 62 Resp: 672
Ion Ratio Lower Upper
62 100
98 0.0 6.9 10.3#



#38
Methylcyclohexane
Concen: 0.523 ug/l
RT: 7.373 min Scan# 1031
Delta R.T. -0.012 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

Tgt Ion: 83 Resp: 901
Ion Ratio Lower Upper
83 100
55 192.8 39.9 119.6#
98 5.9 24.6 73.6#

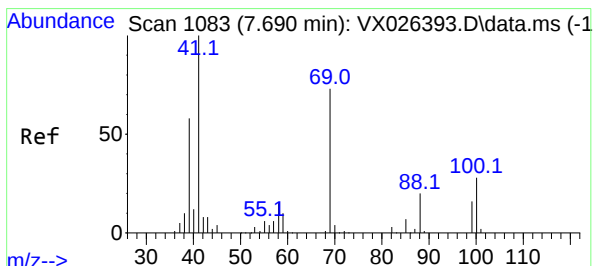
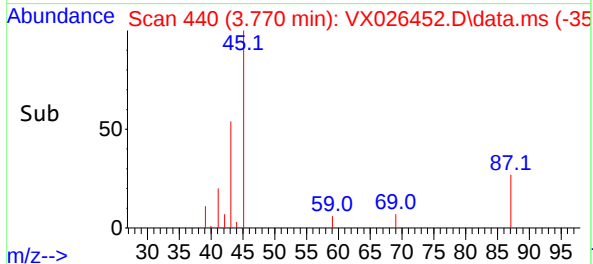
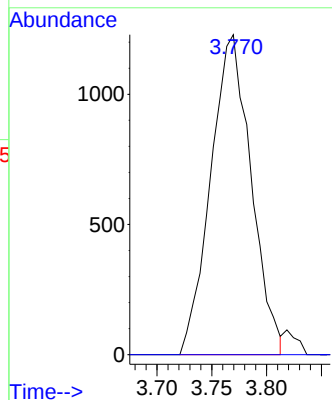
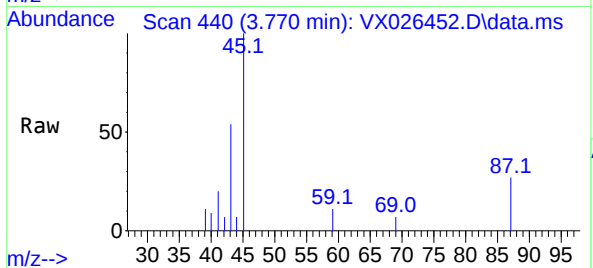




#42
 Vinyl Acetate
 Concen: 1.219 ug/l
 RT: 3.770 min Scan# 44
 Delta R.T. 0.049 min
 Lab File: VX026452.D
 Acq: 14 Jan 2022 13:47

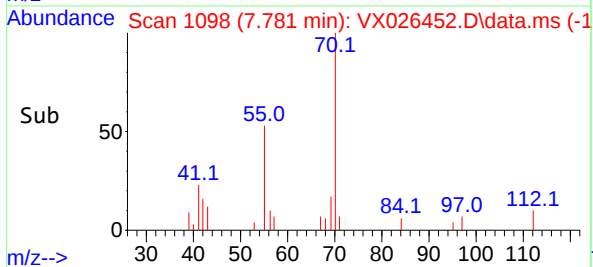
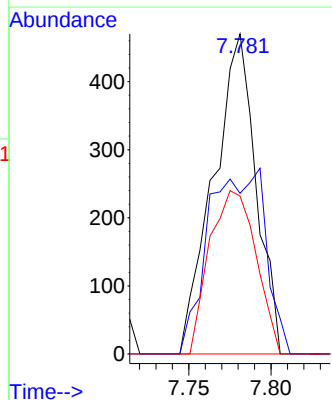
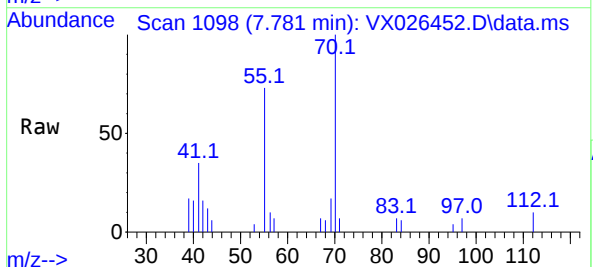
Instrument :
 MSVOA_X
 ClientSampleId :
 6NINF-0122

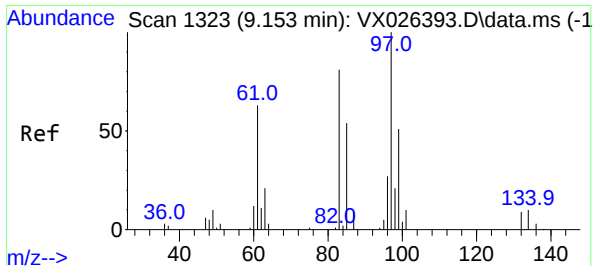
Tgt Ion: 43 Resp: 3154
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.1 10.7#



#46
 Methyl methacrylate
 Concen: 0.689 ug/l
 RT: 7.781 min Scan# 1098
 Delta R.T. 0.092 min
 Lab File: VX026452.D
 Acq: 14 Jan 2022 13:47

Tgt Ion: 41 Resp: 847
 Ion Ratio Lower Upper
 41 100
 69 50.2 36.6 109.9
 39 49.4 29.3 87.8



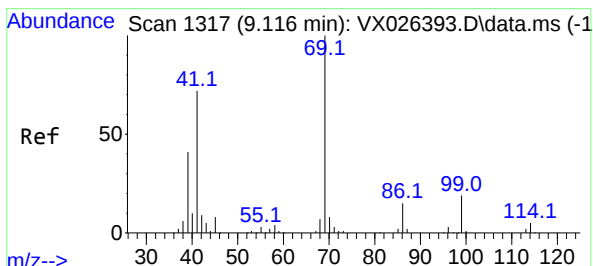
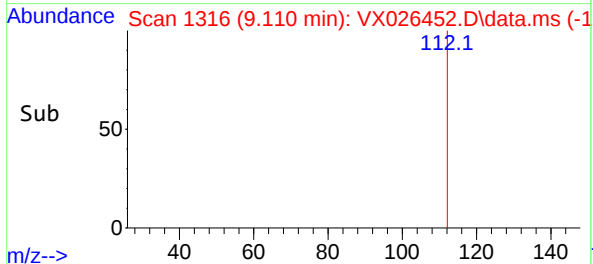
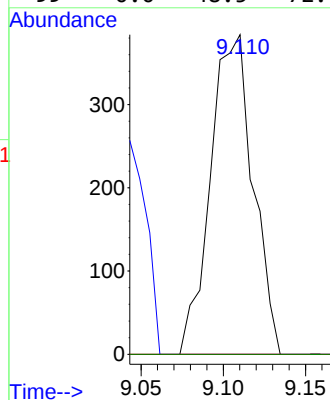
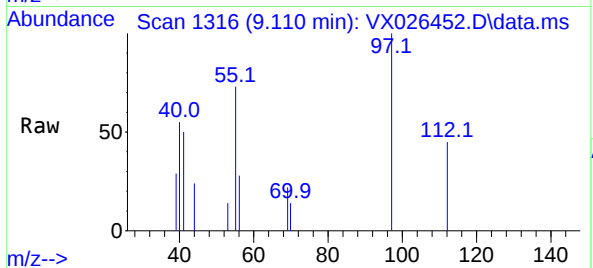


#50
1,1,2-Trichloroethane
Concen: 0.701 ug/l
RT: 9.110 min Scan# 11
Delta R.T. -0.043 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

Instrument :
MSVOA_X
ClientSampleId :
6NINF-0122

Tgt Ion: 97 Resp: 690

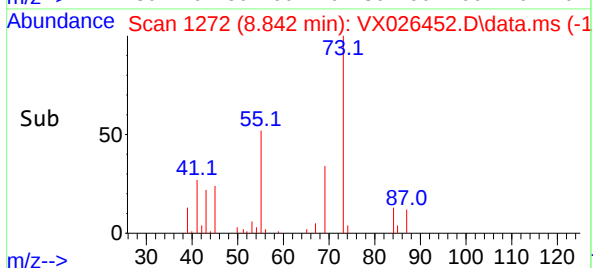
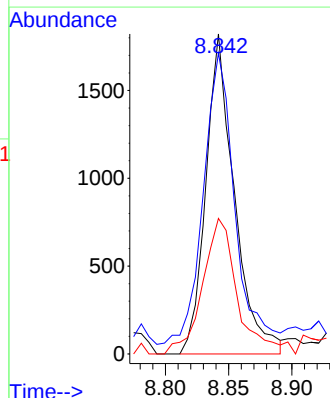
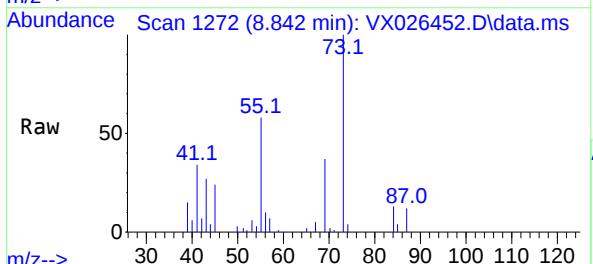
Ion	Ratio	Lower	Upper
97	100		
83	0.0	64.6	96.8#
85	0.0	44.1	66.1#
99	0.0	48.5	72.7#

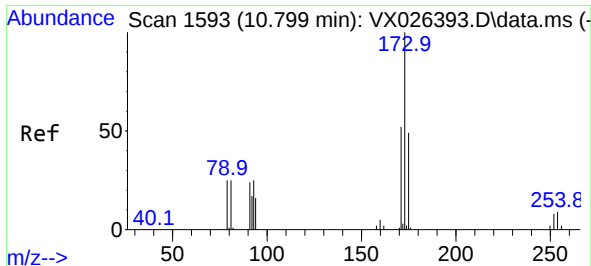


#51
Ethyl methacrylate
Concen: 1.824 ug/l
RT: 8.842 min Scan# 1272
Delta R.T. -0.274 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

Tgt Ion: 69 Resp: 2864

Ion	Ratio	Lower	Upper
69	100		
41	88.2	35.9	107.7
39	39.5	20.3	61.0

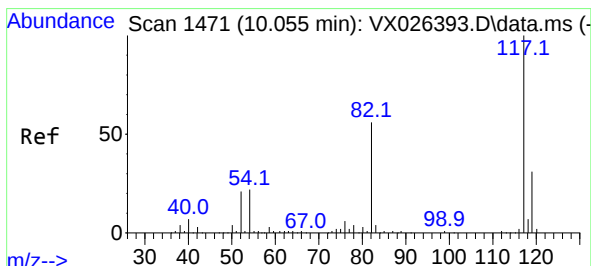
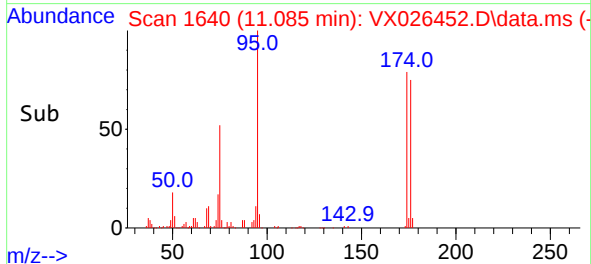
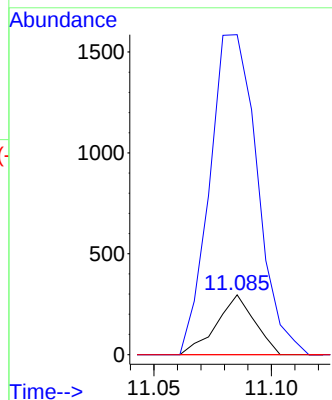
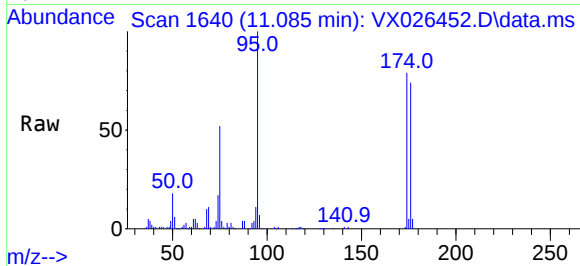




#56
Bromoform
Concen: 0.470 ug/l
RT: 11.085 min Scan# 11
Delta R.T. 0.287 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

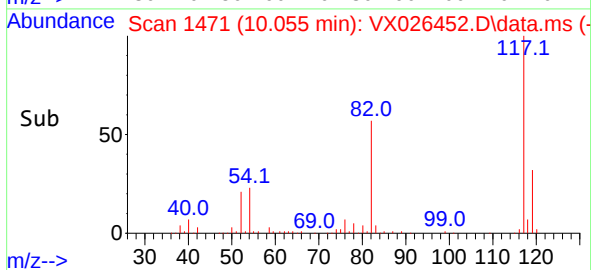
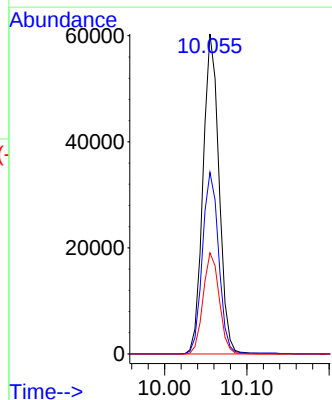
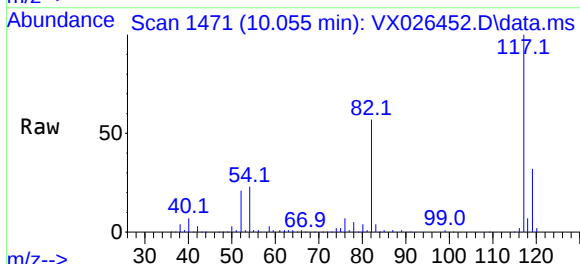
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0122

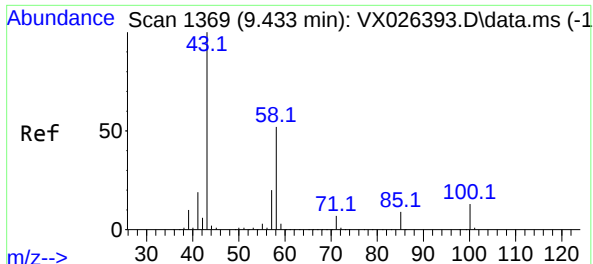
Tgt Ion:173 Resp: 334
Ion Ratio Lower Upper
173 100
175 670.7 38.0 57.0#
254 0.0 6.6 10.0#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

Tgt Ion:117 Resp: 81550
Ion Ratio Lower Upper
117 100
82 57.6 46.2 69.4
119 31.8 25.4 38.2

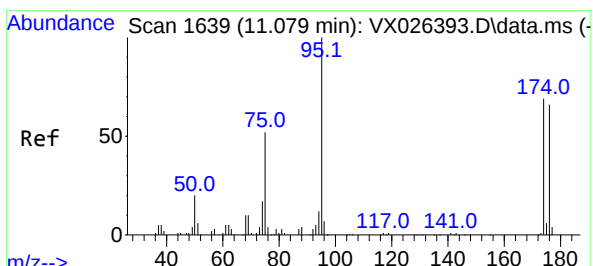
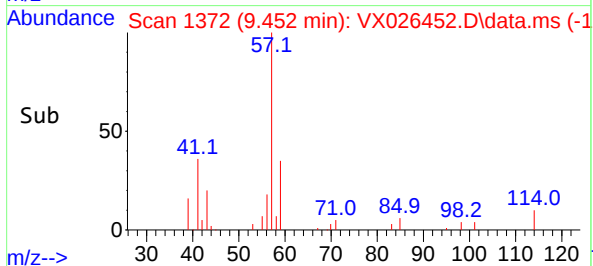
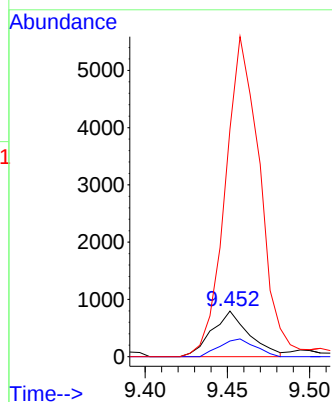
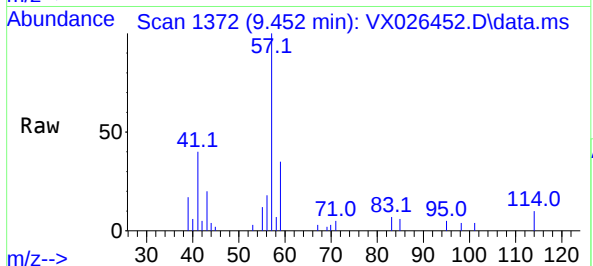




#59
2-Hexanone
Concen: 1.064 ug/l
RT: 9.452 min Scan# 11
Delta R.T. 0.018 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

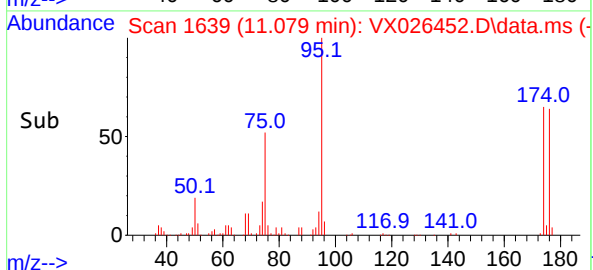
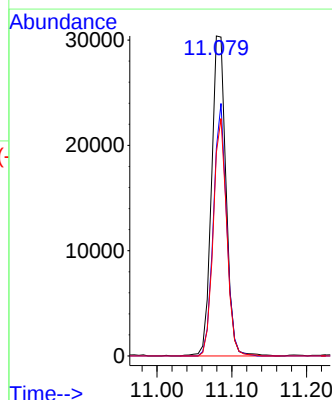
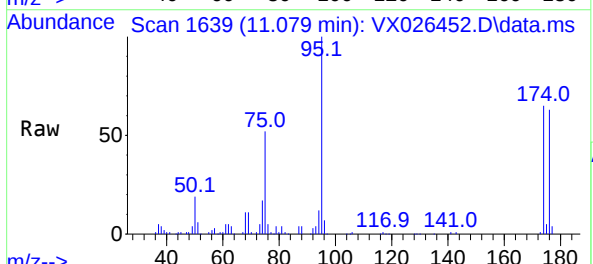
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0122

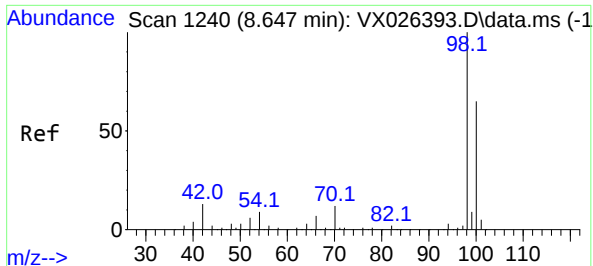
Tgt Ion: 43 Resp: 1253
Ion Ratio Lower Upper
43 100
58 37.1 42.0 63.0#
57 656.7 15.2 22.8#



#60
4-Bromofluorobenzene
Concen: 30.070 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

Tgt Ion: 95 Resp: 40925
Ion Ratio Lower Upper
95 100
174 71.7 58.0 87.0
176 68.7 56.5 84.7

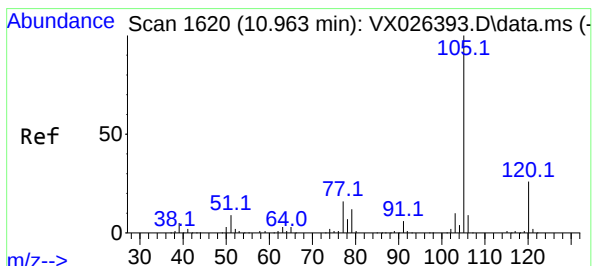
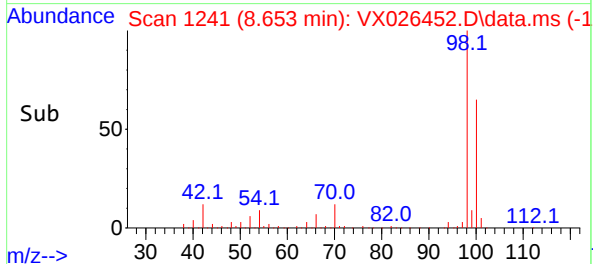
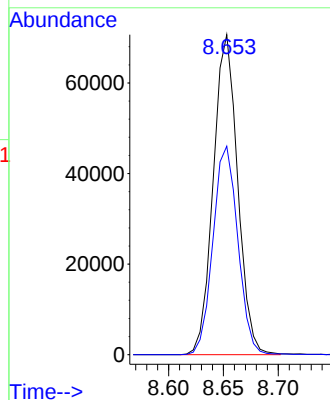
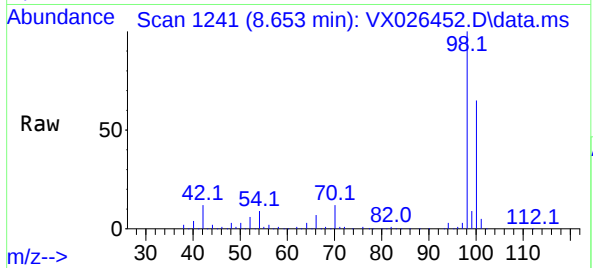




#63
Toluene-d8
Concen: 29.197 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

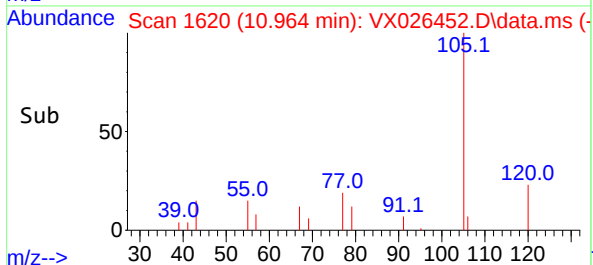
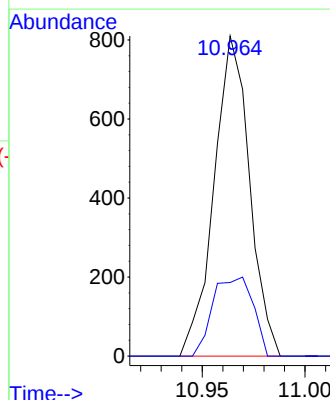
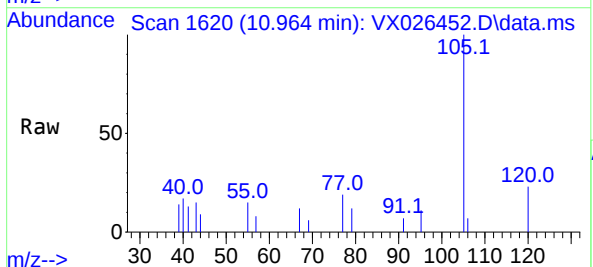
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0122

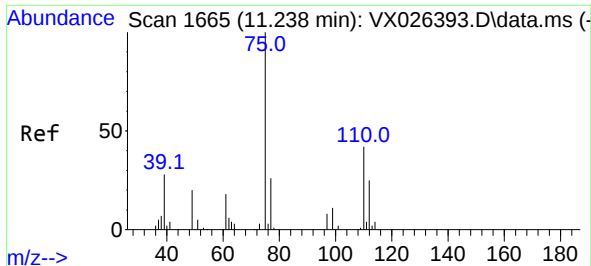
Tgt Ion: 98 Resp: 109380
Ion Ratio Lower Upper
98 100
100 66.4 52.5 78.7



#70
Isopropylbenzene
Concen: 0.207 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.000 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

Tgt Ion: 105 Resp: 973
Ion Ratio Lower Upper
105 100
120 28.0 18.1 33.5

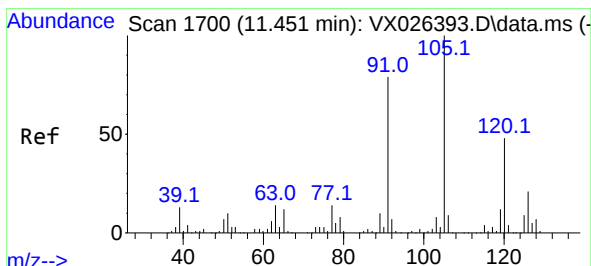
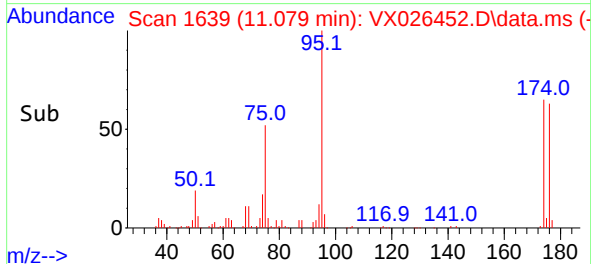
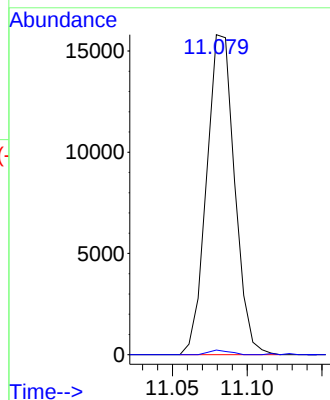
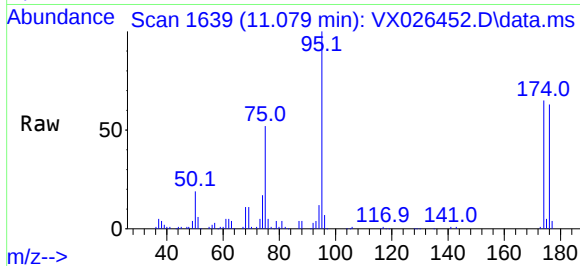




#72
1,2,3-Trichloropropane
Concen: 15.857 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.158 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

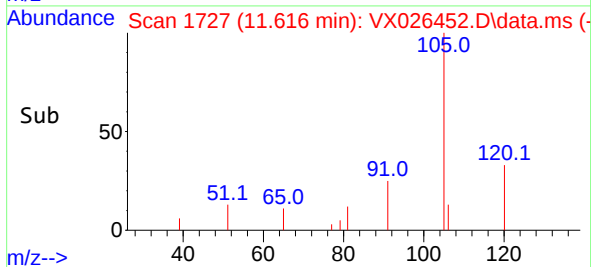
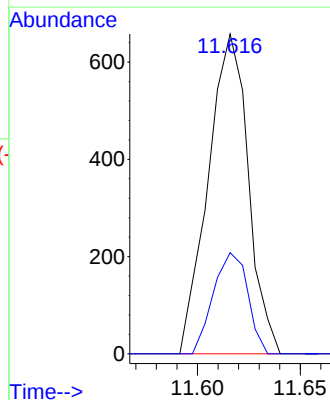
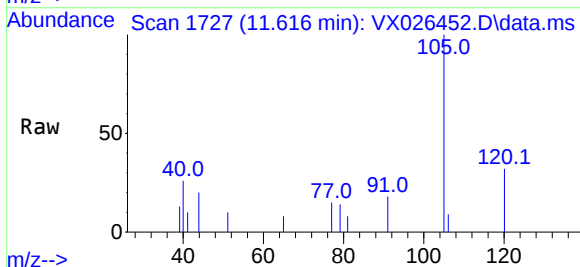
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0122

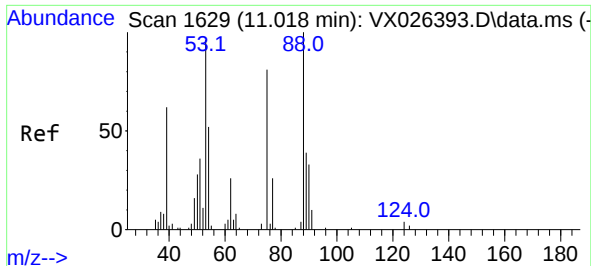
Tgt Ion: 75 Resp: 20639
Ion Ratio Lower Upper
75 100
77 1.1 0.0 76.2



#76
1,3,5-Trimethylbenzene
Concen: 0.227 ug/l
RT: 11.616 min Scan# 1727
Delta R.T. 0.165 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

Tgt Ion: 105 Resp: 892
Ion Ratio Lower Upper
105 100
120 27.0 0.0 95.6

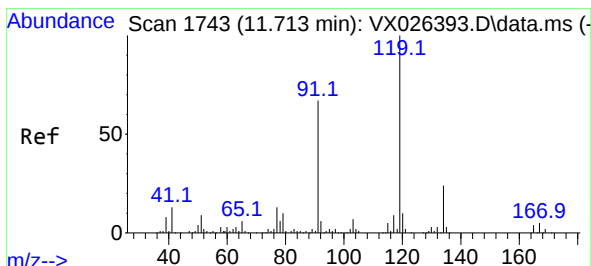
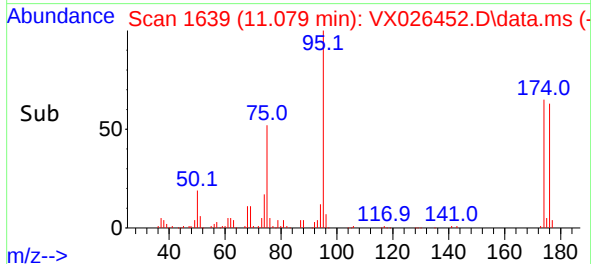
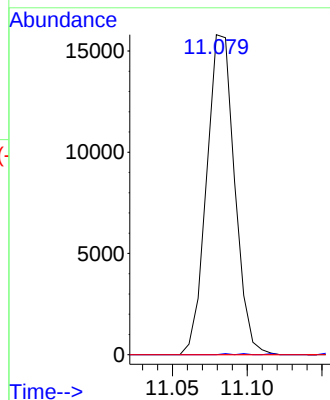
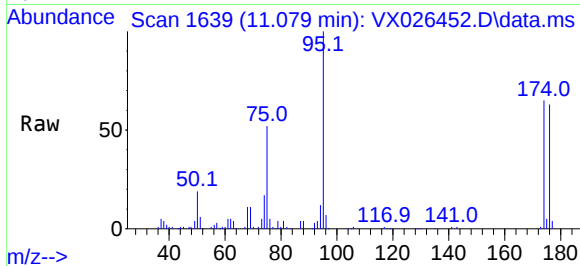




#77
t-1,4-Dichloro-2-butene
Concen: 52.723 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

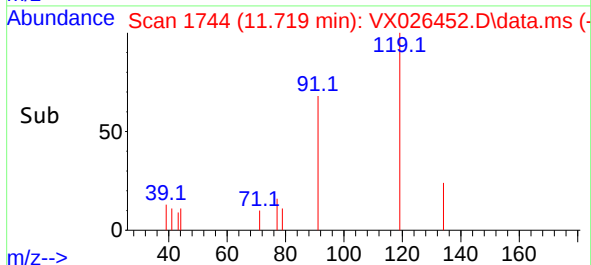
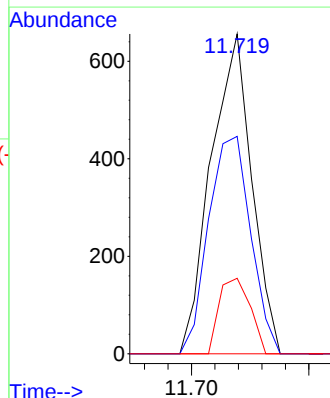
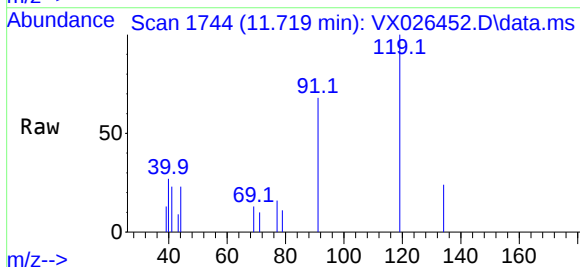
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0122

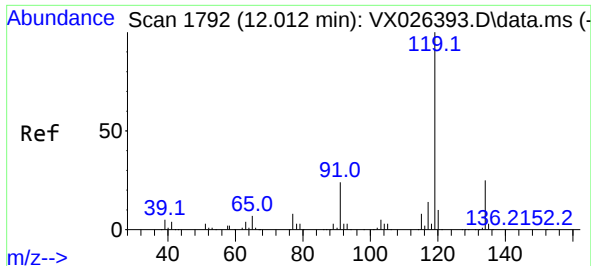
Tgt Ion: 75 Resp: 20639
Ion Ratio Lower Upper
75 100
53 0.0 59.0 176.8#
89 0.0 24.0 72.0#



#79
tert-butylbenzene
Concen: 0.217 ug/l
RT: 11.719 min Scan# 1744
Delta R.T. 0.006 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

Tgt Ion: 119 Resp: 790
Ion Ratio Lower Upper
119 100
91 70.4 0.0 129.0
134 18.0 0.0 47.8

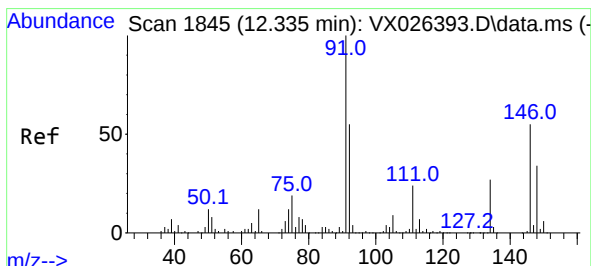
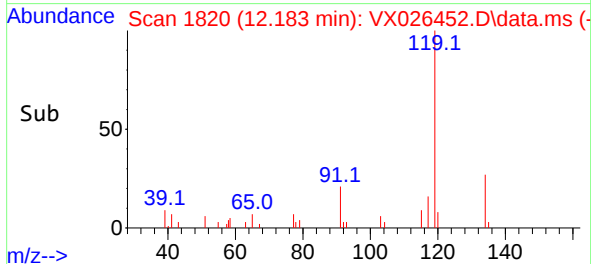
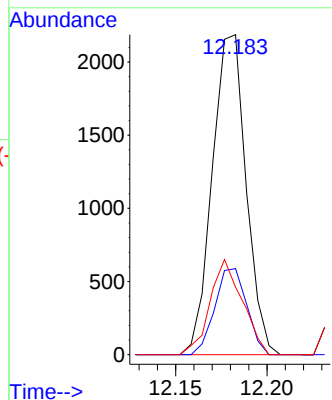
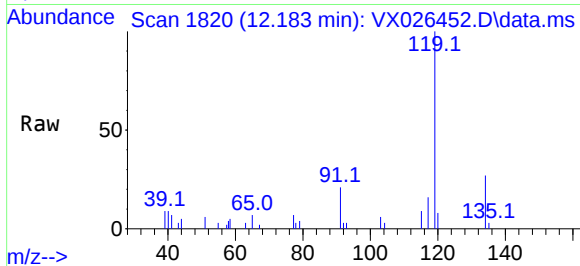




#82
p-Isopropyltoluene
Concen: 0.700 ug/l
RT: 12.183 min Scan# 119
Delta R.T. 0.171 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

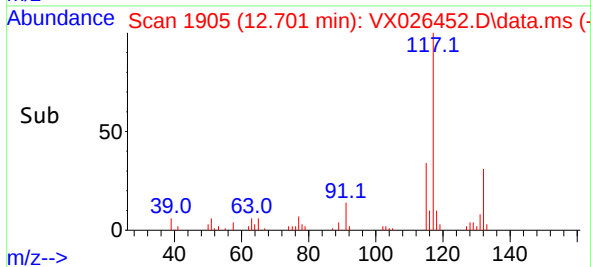
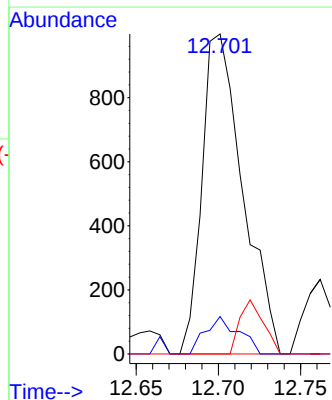
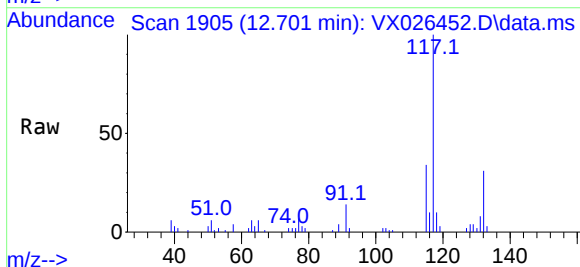
Instrument :
MSVOA_X
ClientSampleId :
6NINF-0122

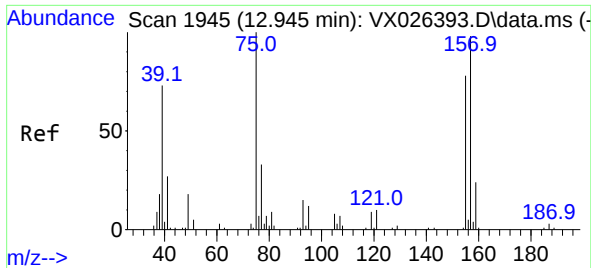
Tgt Ion:	119	Resp:	2822
Ion	Ratio	Lower	Upper
119	100		
134	25.4	0.0	50.8
91	28.4	0.0	50.2



#85
n-Butylbenzene
Concen: 0.494 ug/l
RT: 12.701 min Scan# 1905
Delta R.T. 0.366 min
Lab File: VX026452.D
Acq: 14 Jan 2022 13:47

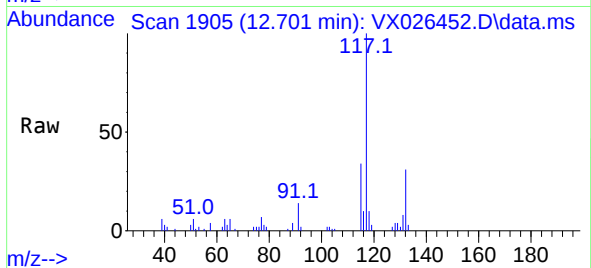
Tgt Ion:	91	Resp:	1723
Ion	Ratio	Lower	Upper
91	100		
92	9.6	0.0	109.4
134	9.8	0.0	52.6





#88
 1,2-Dibromo-3-Chloropropane
 Concen: 0.571 ug/l
 RT: 12.701 min Scan# 19
 Delta R.T. -0.244 min
 Lab File: VX026452.D
 Acq: 14 Jan 2022 13:47

Instrument :
 MSVOA_X
 ClientSampleId :
 6NINF-0122



Tgt Ion: 75 Resp: 187
 Ion Ratio Lower Upper
 75 100
 155 0.0 65.4 98.0#
 157 0.0 82.1 123.1#

