

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011422\
 Data File : VX026454.D
 Acq On : 14 Jan 2022 14:33
 Operator : JC/MD
 Sample : N1157-01 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

Quant Time: Jan 17 05:59:04 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)

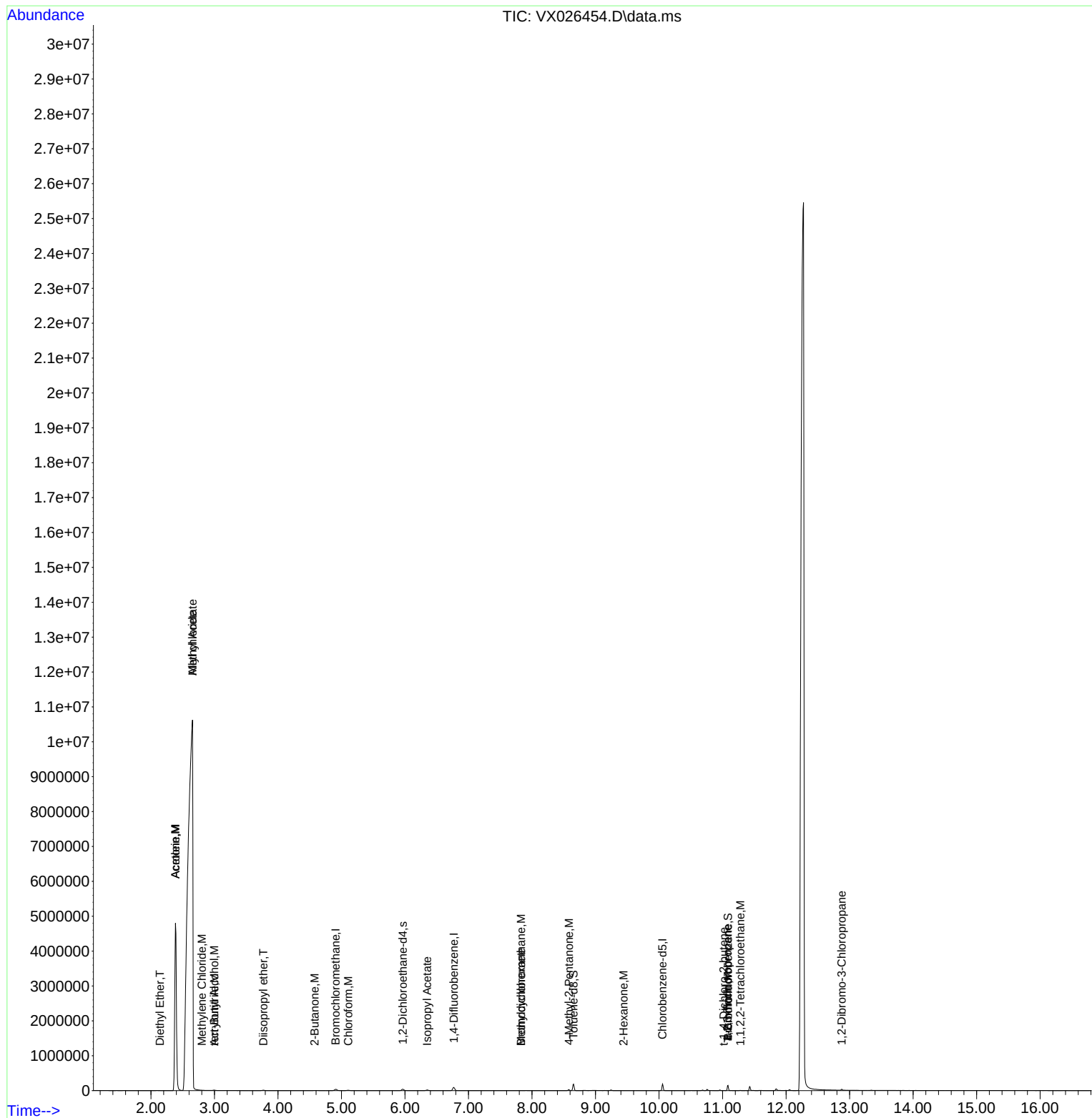
Internal Standards						
1) Bromochloromethane	4.910	128	15886	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	94005	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	82633	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	40251	31.510	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	105.033%
60) 4-Bromofluorobenzene	11.085	95	41767	30.286	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.967%
63) Toluene-d8	8.653	98	110583	29.131	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.100%
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.142	74	376	0.720	ug/l #	1
12) Methyl Acetate	2.654	43	8319493	4650.422	ug/l #	54
13) Acrolein	2.386	56	1344	7.249	ug/l #	1
14) Acrylonitrile	2.995	53	125	0.250	ug/l #	17
15) Acetone	2.386	58	1738343	11090.210	ug/l	82
17) Allyl chloride	2.654	41	3480962	2118.110	ug/l #	69
18) Methylene Chloride	2.800	84	425	0.452	ug/l #	97
20) Diisopropyl ether	3.770	45	14663	4.591	ug/l #	83
23) tert-Butyl Alcohol	2.995	59	15670	86.576	ug/l #	100
25) Chloroform	5.105	83	14020	7.694	ug/l	100
30) 2-Butanone	4.574	43	4492	5.327	ug/l	94
38) Methylcyclohexane	7.830	83	1164	0.669	ug/l #	17
41) Bromodichloromethane	7.830	83	1164	0.780	ug/l #	84
44) Isopropyl Acetate	6.348	43	26359	10.417	ug/l	99
56) Bromoform	11.085	173	388	0.541	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	17339	11.249	ug/l	100
59) 2-Hexanone	9.439	43	702	0.588	ug/l #	96
71) 1,1,2,2-Tetrachloroethane	11.281	83	691	0.531	ug/l #	39
72) 1,2,3-Trichloropropane	11.079	75	21312	16.159	ug/l	39
77) t-1,4-Dichloro-2-butene	11.018	75	503	1.268	ug/l #	3
88) 1,2-Dibromo-3-Chloropr...	12.878	75	819	2.468	ug/l #	3

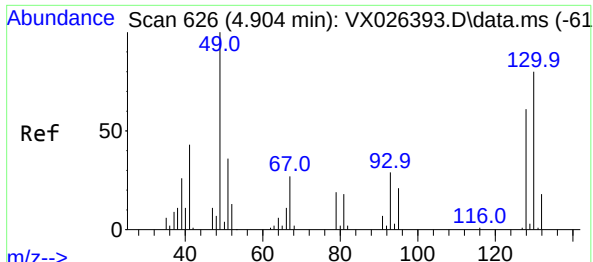
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
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Quant Time: Jan 17 05:59:04 2022
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Jan 10 12:50:55 2022
Response via : Initial Calibration

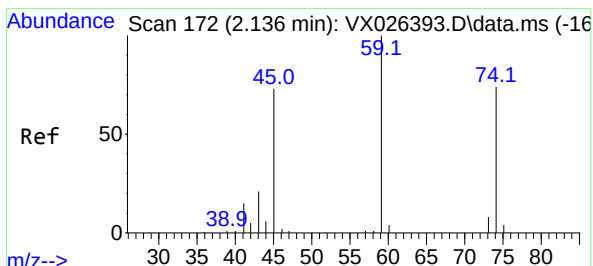
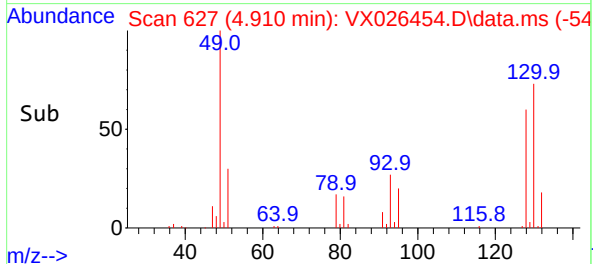
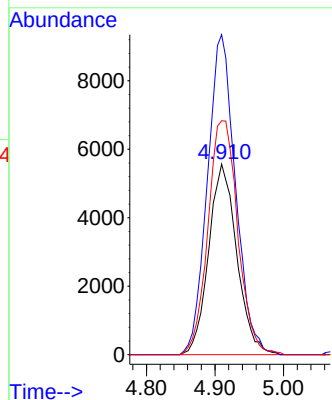
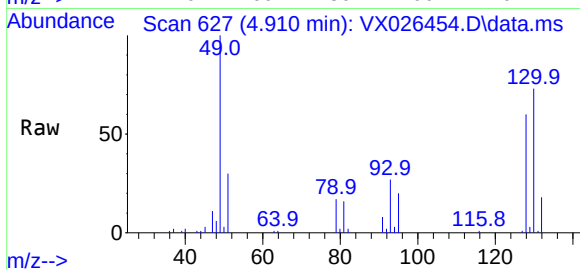




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.910 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

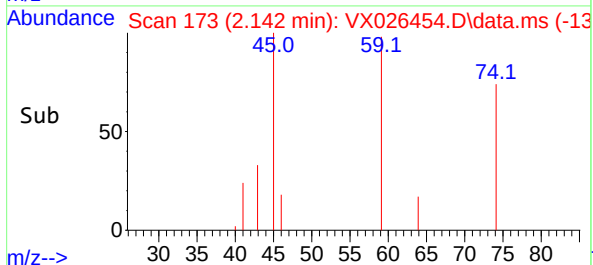
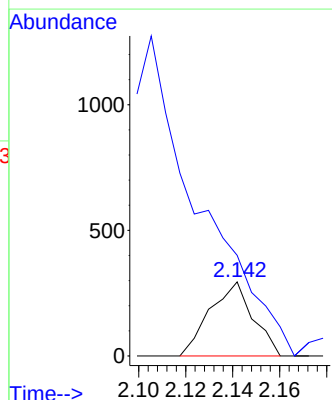
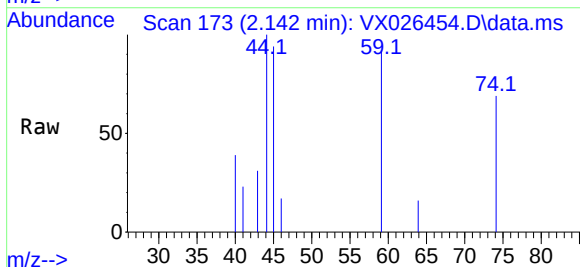
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

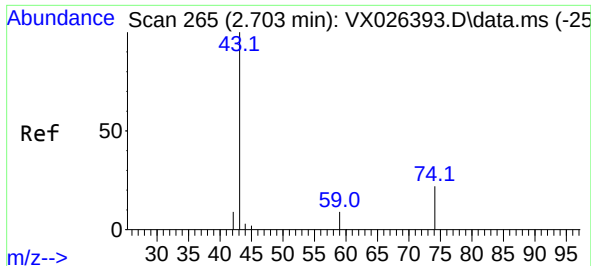
Tgt Ion:128 Resp: 15886
Ion Ratio Lower Upper
128 100
49 167.4 0.0 413.5
130 130.4 0.0 326.0



#8
Diethyl Ether
Concen: 0.720 ug/l
RT: 2.142 min Scan# 173
Delta R.T. 0.006 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

Tgt Ion: 74 Resp: 376
Ion Ratio Lower Upper
74 100
45 1119.4 19.5 175.5#

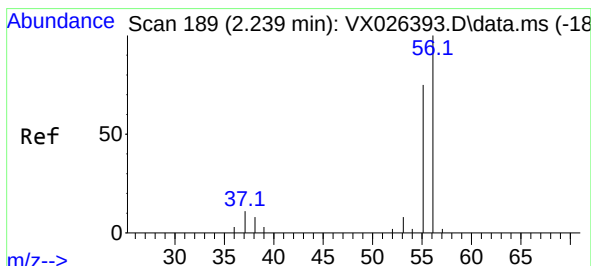
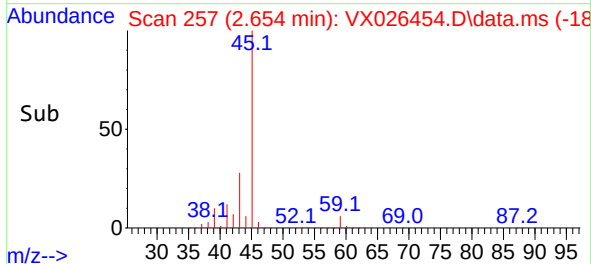
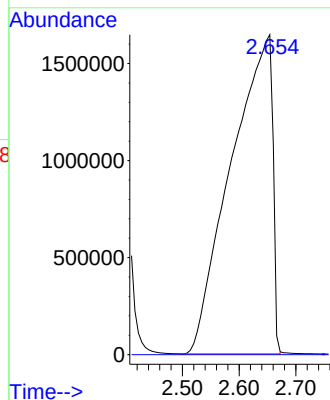
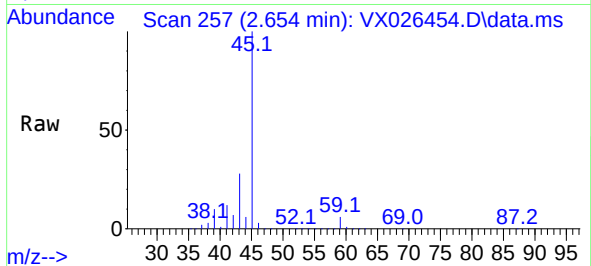




#12
Methyl Acetate
Concen: 4650.422 ug/l
RT: 2.654 min Scan# 213
Delta R.T. -0.049 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

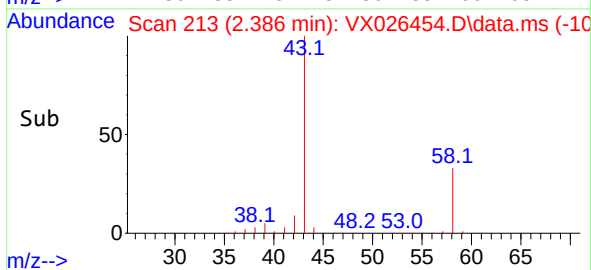
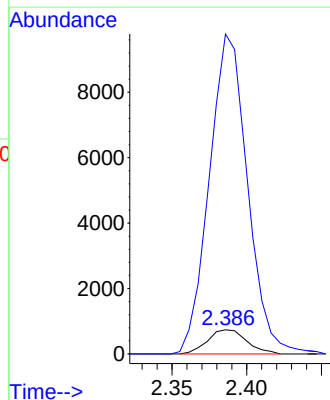
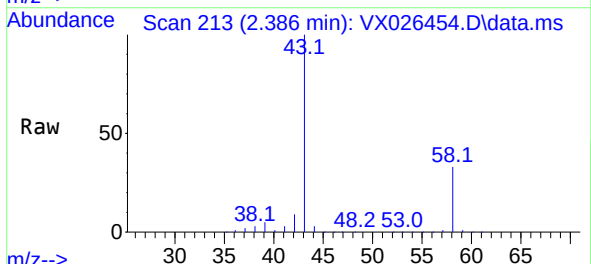
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

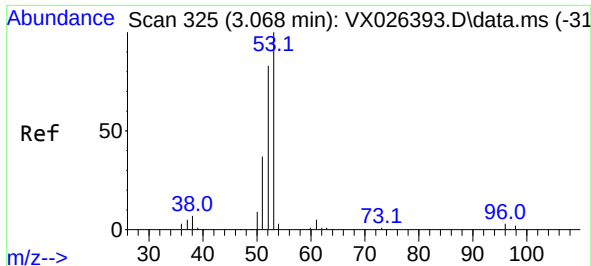
Tgt Ion: 43 Resp: 8319493
Ion Ratio Lower Upper
43 100
74 0.0 17.8 26.6#



#13
Acrolein
Concen: 7.249 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.146 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

Tgt Ion: 56 Resp: 1344
Ion Ratio Lower Upper
56 100
55 1296.1 58.2 87.2#





#14

Acrylonitrile

Concen: 0.250 ug/l

RT: 2.995 min Scan# 31

Delta R.T. -0.073 min

Lab File: VX026454.D

Acq: 14 Jan 2022 14:33

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

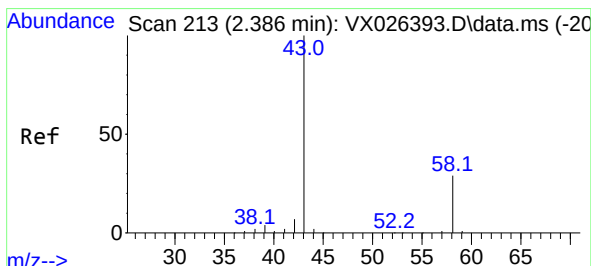
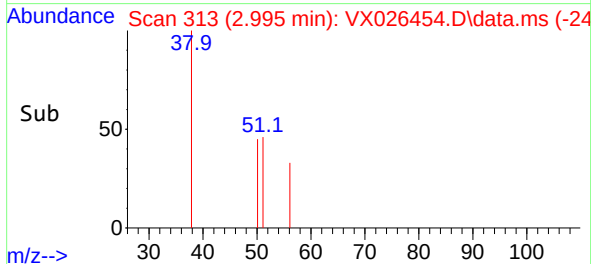
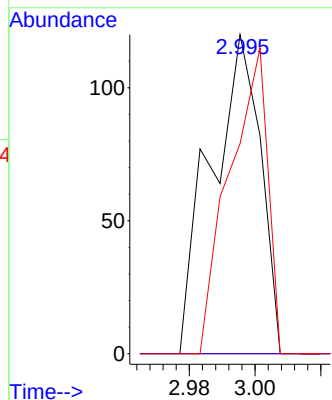
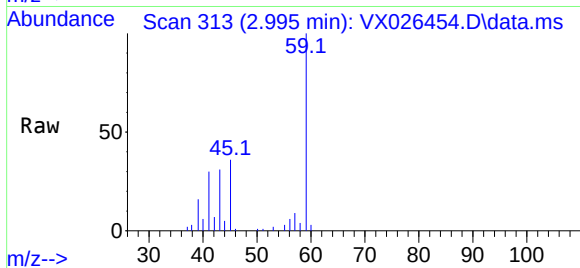
Tgt Ion: 53 Resp: 125

Ion Ratio Lower Upper

53 100

52 0.0 41.4 124.4#

51 74.4 18.6 56.0#



#15

Acetone

Concen: 11090.210 ug/l

RT: 2.386 min Scan# 213

Delta R.T. 0.000 min

Lab File: VX026454.D

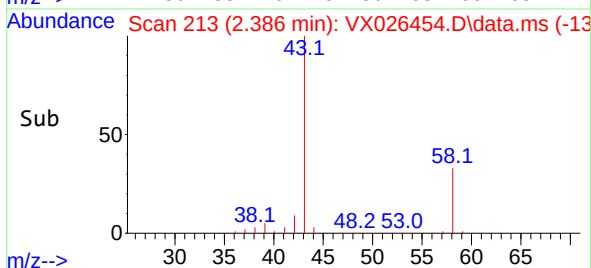
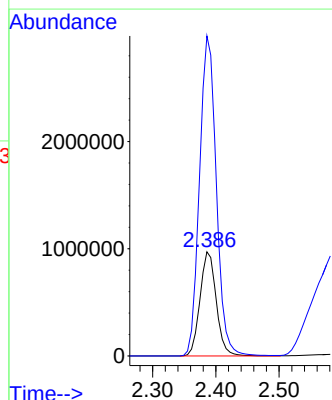
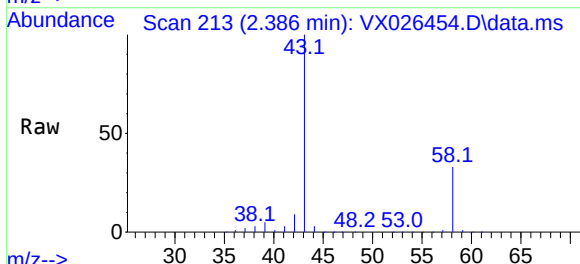
Acq: 14 Jan 2022 14:33

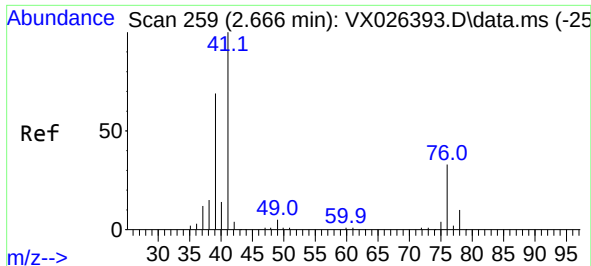
Tgt Ion: 58 Resp: 1738343

Ion Ratio Lower Upper

58 100

43 307.3 276.3 414.5





#17

Allyl chloride

Concen: 2118.110 ug/l

RT: 2.654 min Scan# 21

Delta R.T. -0.012 min

Lab File: VX026454.D

Acq: 14 Jan 2022 14:33

Instrument :

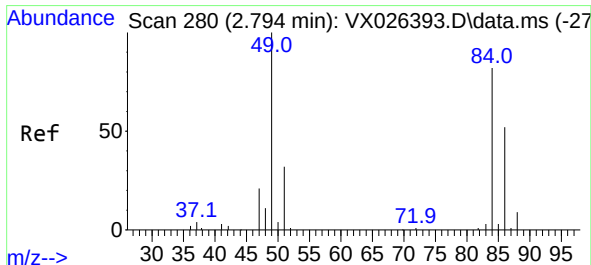
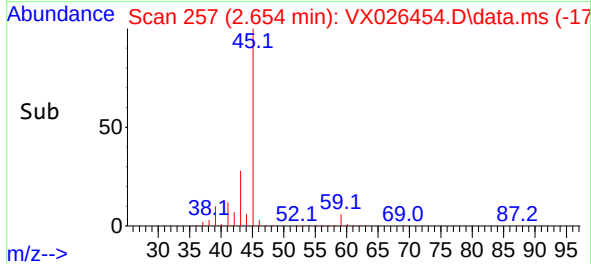
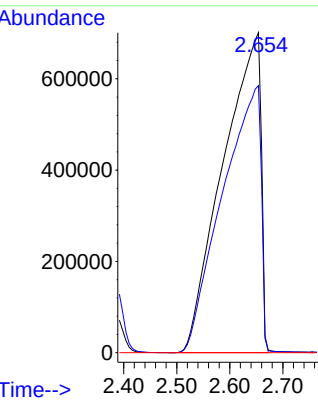
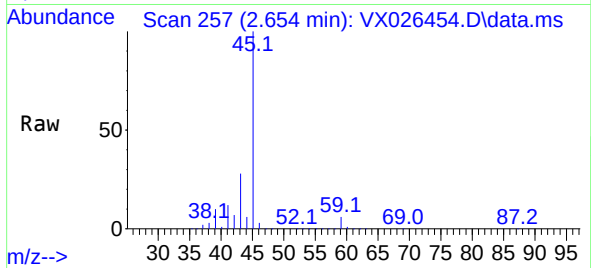
MSVOA_X

ClientSampleId :

EFF-WW

Tgt Ion: 41 Resp: 3480962

Ion	Ratio	Lower	Upper
41	100		
39	83.4	34.5	103.5
76	0.0	16.7	50.0#



#18

Methylene Chloride

Concen: 0.452 ug/l

RT: 2.800 min Scan# 281

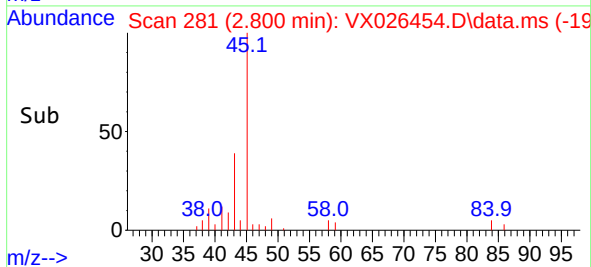
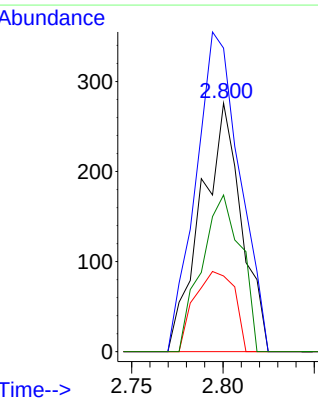
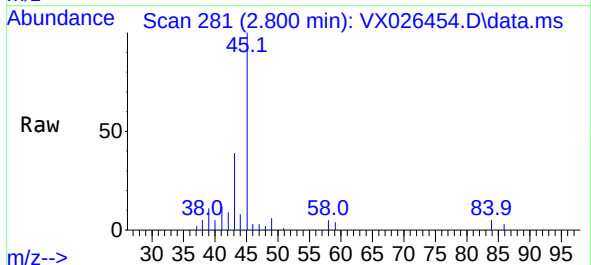
Delta R.T. 0.006 min

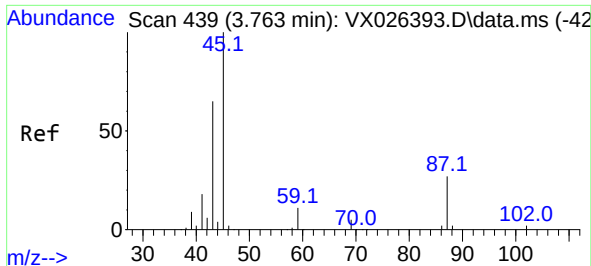
Lab File: VX026454.D

Acq: 14 Jan 2022 14:33

Tgt Ion: 84 Resp: 425

Ion	Ratio	Lower	Upper
84	100		
49	122.1	97.8	146.8
51	30.4	31.1	46.7#
86	63.0	51.3	76.9

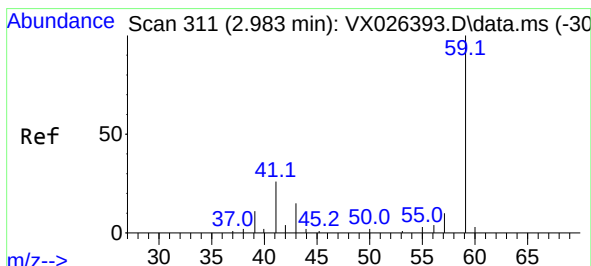
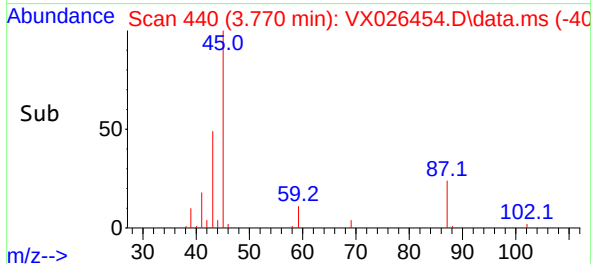
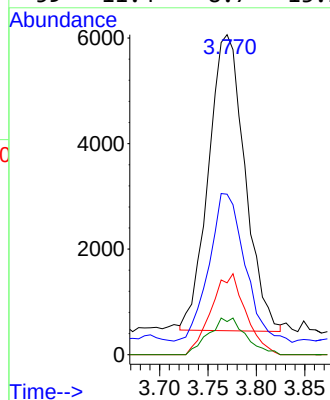
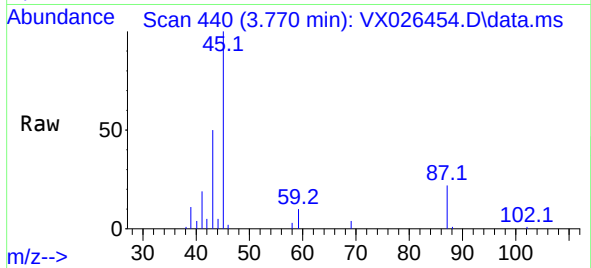




#20
Diisopropyl ether
Concen: 4.591 ug/l
RT: 3.770 min Scan# 440
Delta R.T. 0.006 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

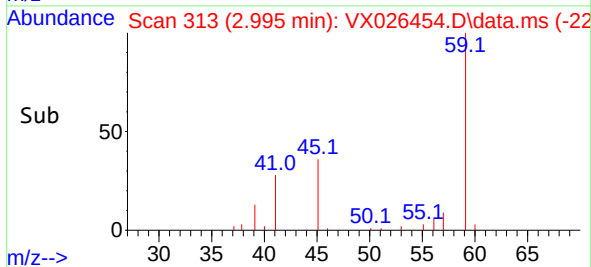
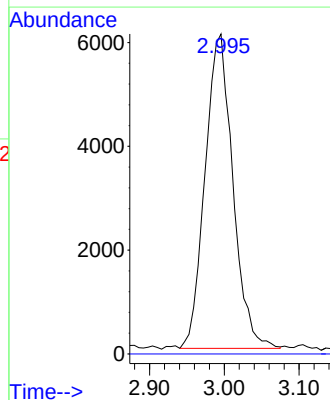
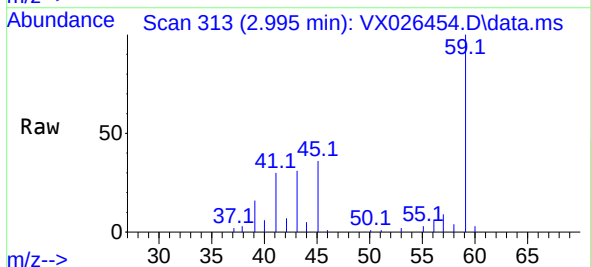
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

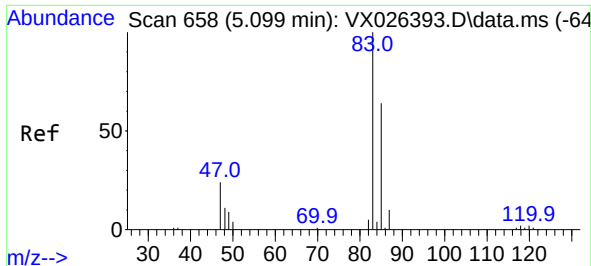
Tgt Ion:	45	Resp:	14663
Ion	Ratio	Lower	Upper
45	100		
43	49.8	56.2	84.2#
87	24.7	21.5	32.3
59	11.4	8.7	13.1



#23
tert-Butyl Alcohol
Concen: 86.576 ug/l
RT: 2.995 min Scan# 313
Delta R.T. 0.012 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

Tgt Ion:	59	Resp:	15670
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.0	0.0

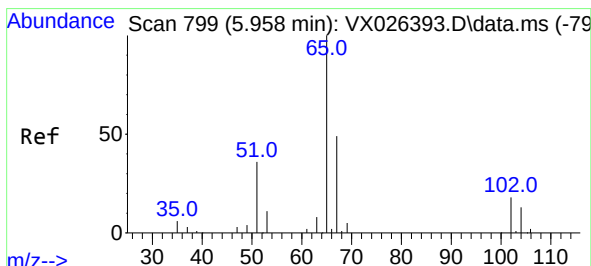
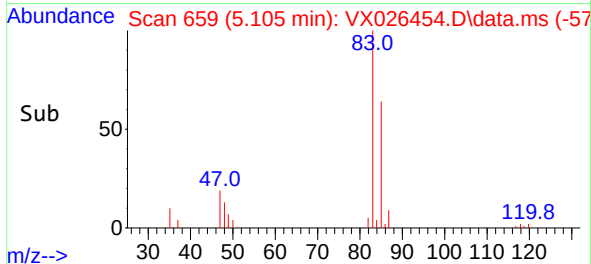
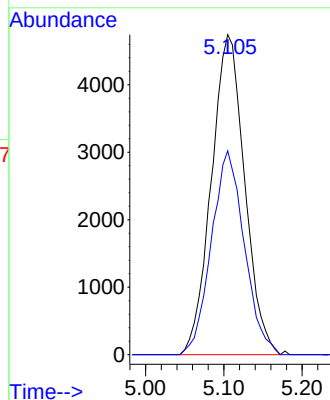
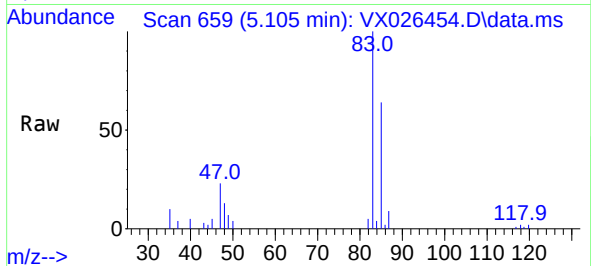




#25
Chloroform
Concen: 7.694 ug/l
RT: 5.105 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

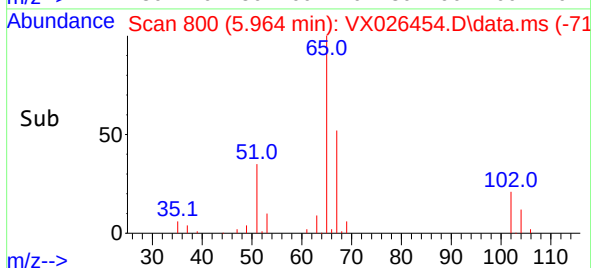
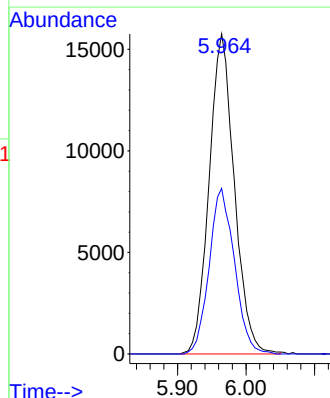
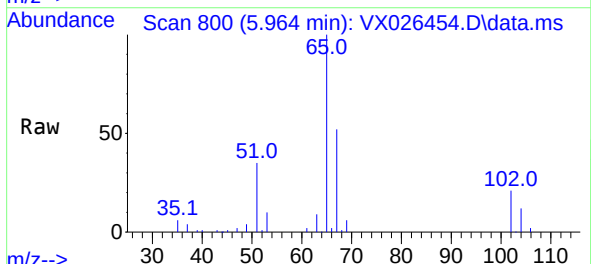
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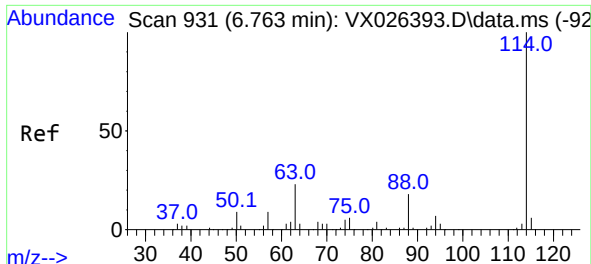
Tgt Ion: 83 Resp: 14020
Ion Ratio Lower Upper
83 100
85 63.7 50.8 76.2



#27
1,2-Dichloroethane-d4
Concen: 31.510 ug/l
RT: 5.964 min Scan# 800
Delta R.T. 0.006 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

Tgt Ion: 65 Resp: 40251
Ion Ratio Lower Upper
65 100
67 51.8 39.6 59.4





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX026454.D

Acq: 14 Jan 2022 14:33

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

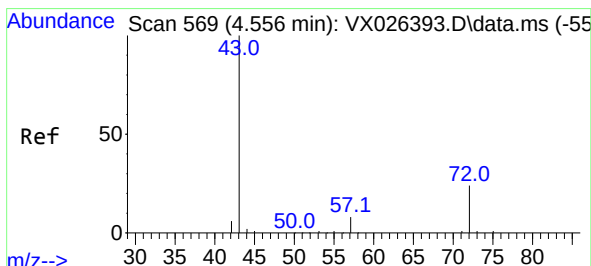
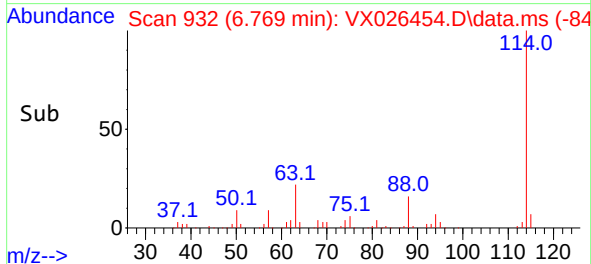
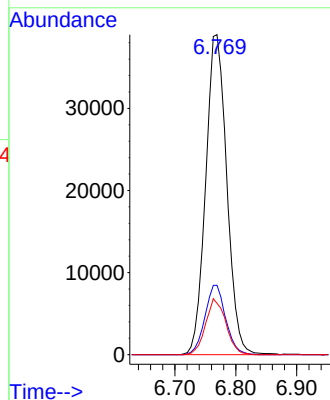
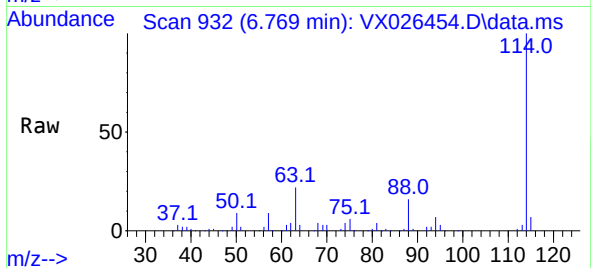
Tgt Ion:114 Resp: 94005

Ion Ratio Lower Upper

114 100

63 21.3 17.4 26.2

88 16.7 13.5 20.3



#30

2-Butanone

Concen: 5.327 ug/l

RT: 4.574 min Scan# 572

Delta R.T. 0.018 min

Lab File: VX026454.D

Acq: 14 Jan 2022 14:33

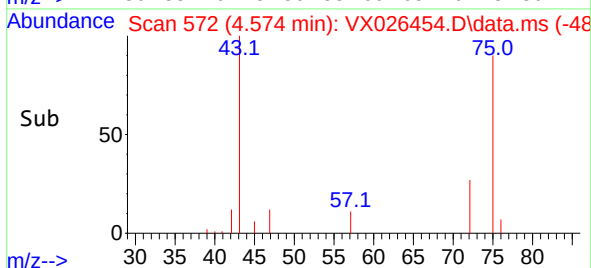
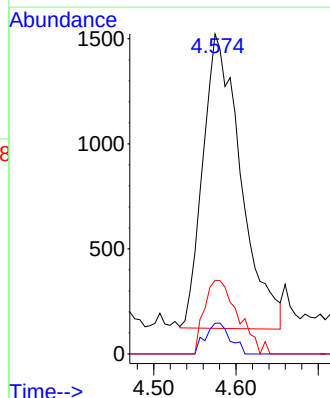
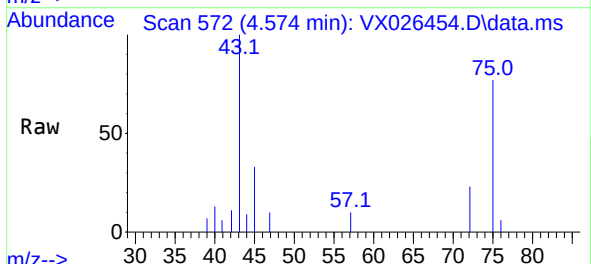
Tgt Ion: 43 Resp: 4492

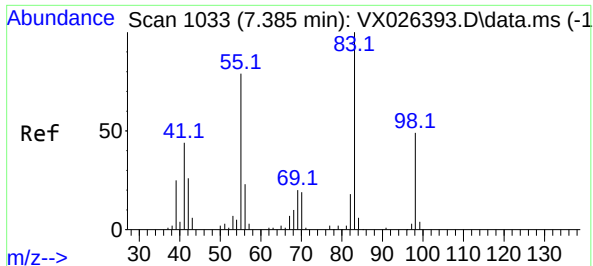
Ion Ratio Lower Upper

43 100

57 6.4 6.3 9.5

72 21.7 19.8 29.6

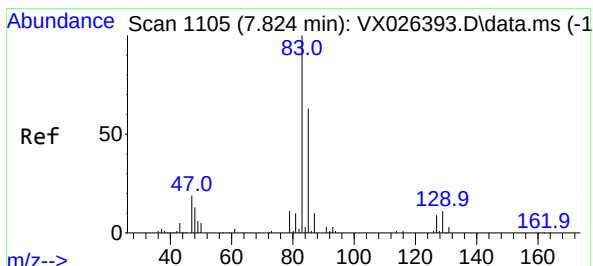
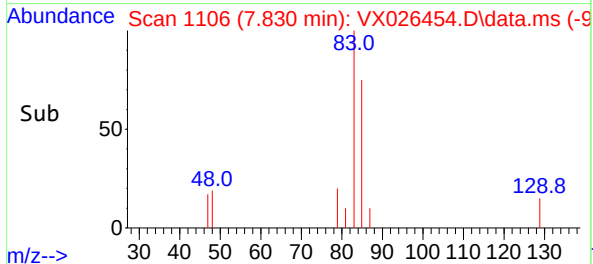
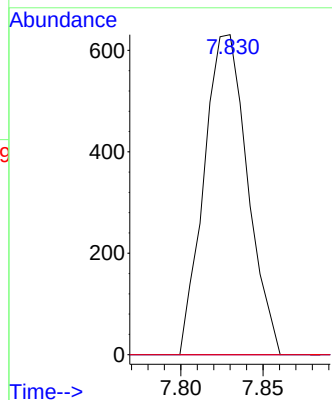
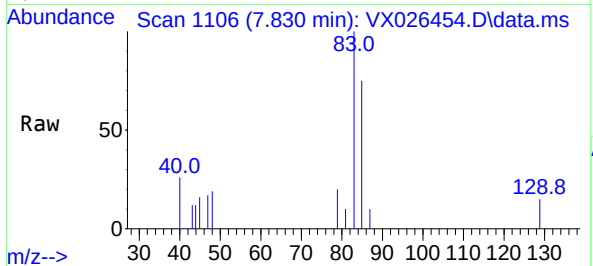




#38
Methylcyclohexane
Concen: 0.669 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. 0.445 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

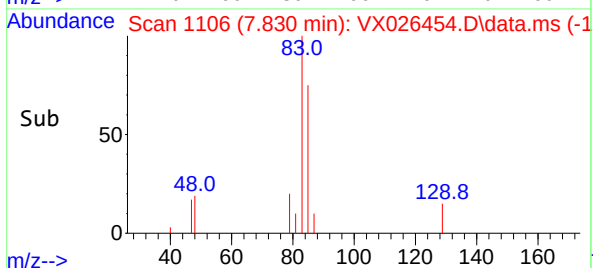
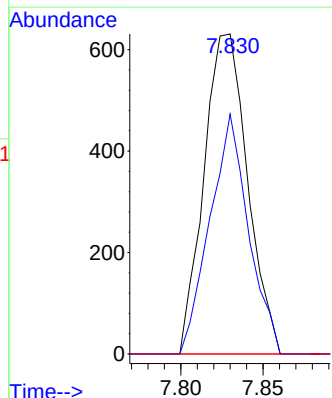
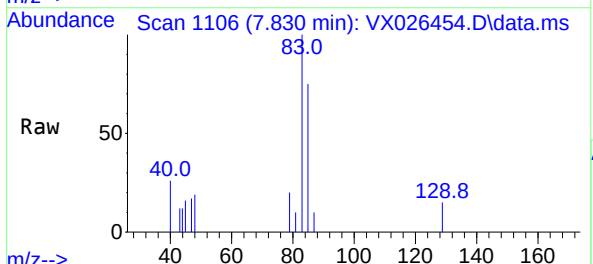
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

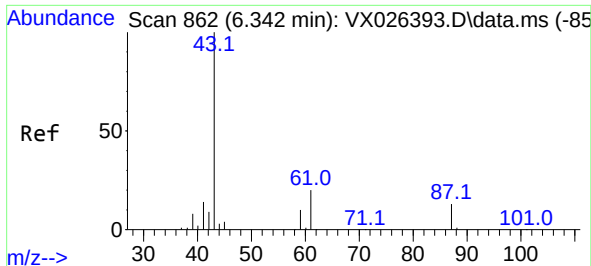
Tgt Ion: 83 Resp: 1164
Ion Ratio Lower Upper
83 100
55 0.0 39.9 119.6#
98 0.0 24.6 73.6#



#41
Bromodichloromethane
Concen: 0.780 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

Tgt Ion: 83 Resp: 1164
Ion Ratio Lower Upper
83 100
85 75.0 50.6 76.0
127 0.0 7.0 10.6#

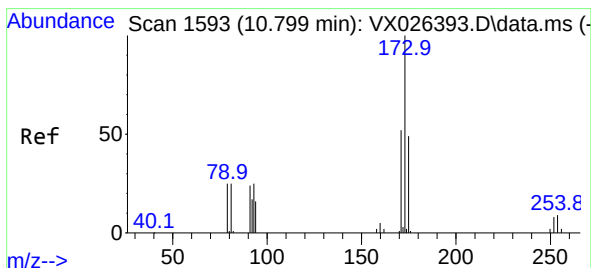
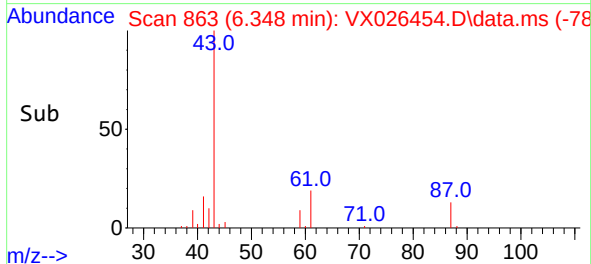
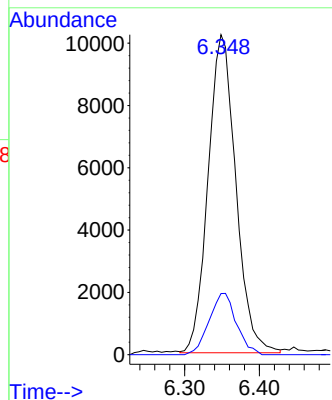
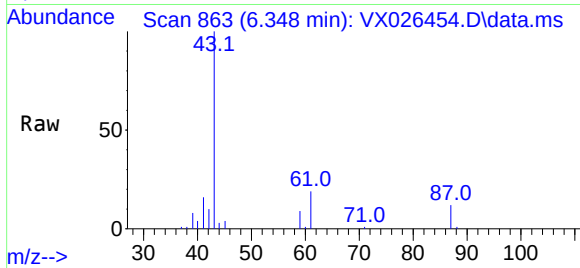




#44
Isopropyl Acetate
Concen: 10.417 ug/l
RT: 6.348 min Scan# 863
Delta R.T. 0.006 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

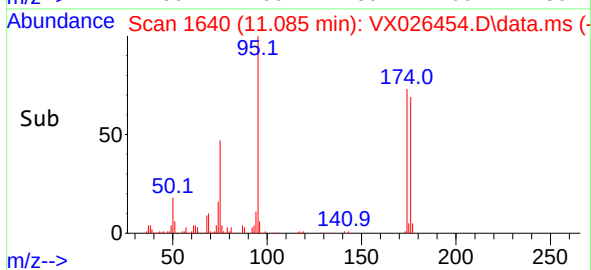
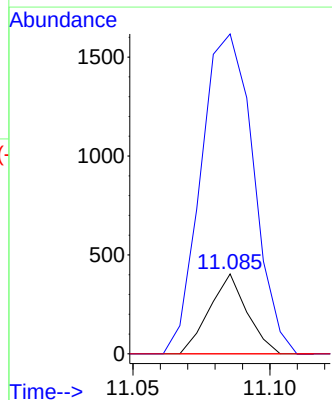
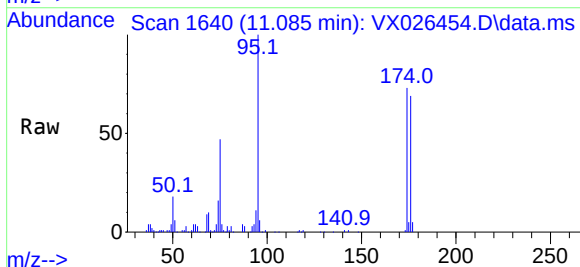
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

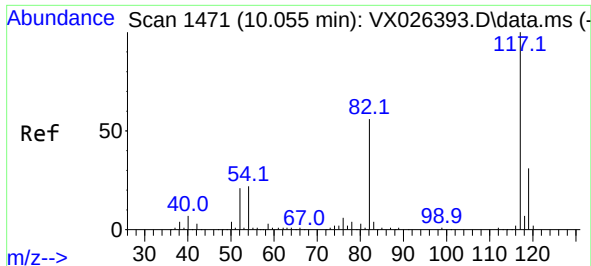
Tgt Ion: 43 Resp: 26359
Ion Ratio Lower Upper
43 100
61 18.9 15.4 23.2



#56
Bromoform
Concen: 0.541 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.287 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

Tgt Ion: 173 Resp: 388
Ion Ratio Lower Upper
173 100
175 554.1 38.0 57.0#
254 0.0 6.6 10.0#

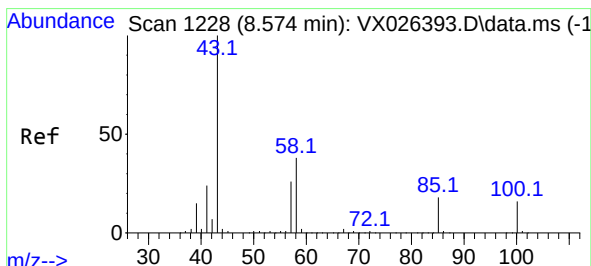
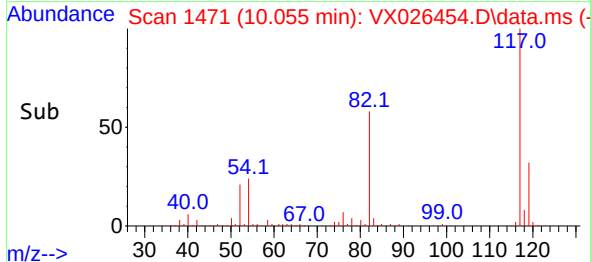
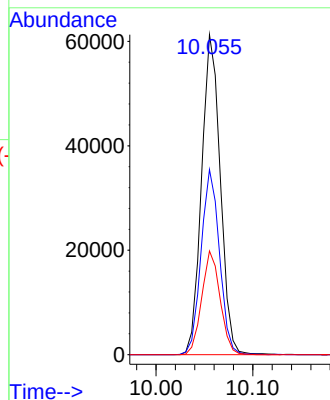
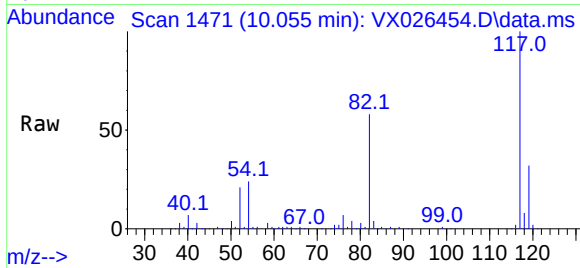




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

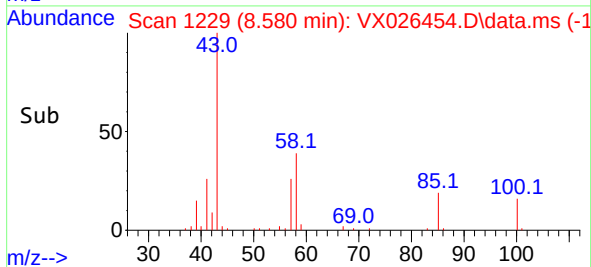
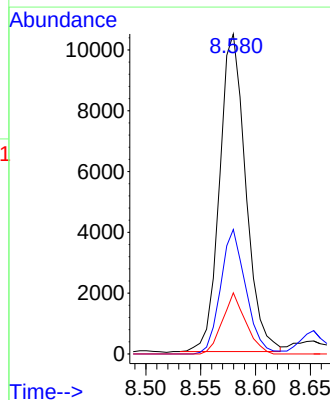
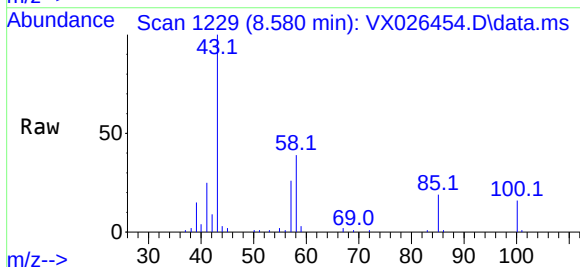
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

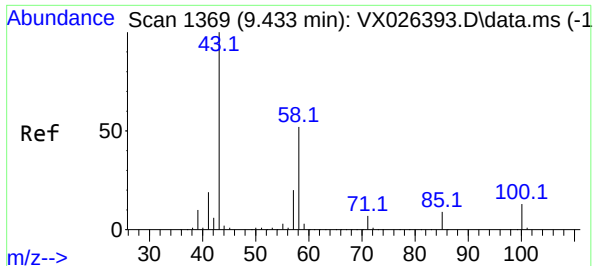
Tgt Ion:117 Resp: 82633
Ion Ratio Lower Upper
117 100
82 56.9 46.2 69.4
119 31.8 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 11.249 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

Tgt Ion: 43 Resp: 17339
Ion Ratio Lower Upper
43 100
58 37.8 30.2 45.4
85 17.2 14.1 21.1





#59

2-Hexanone

Concen: 0.588 ug/l

RT: 9.439 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX026454.D

Acq: 14 Jan 2022 14:33

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

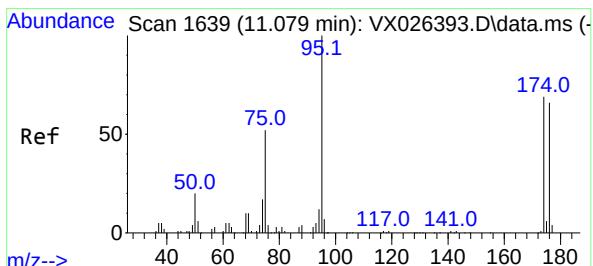
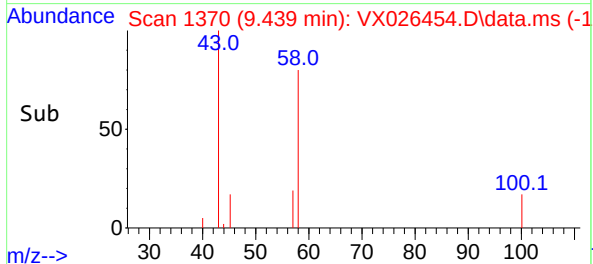
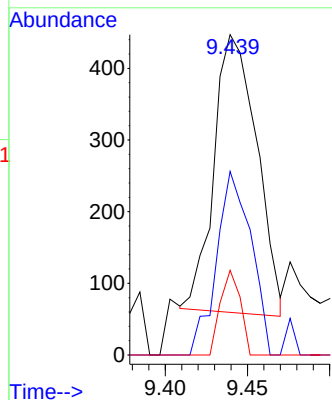
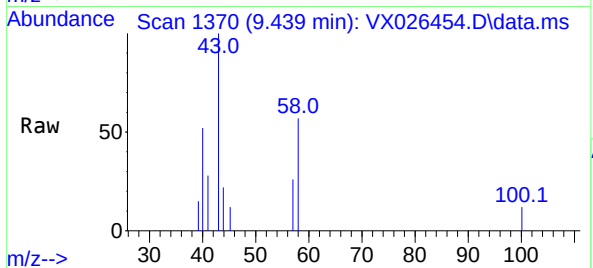
Tgt Ion: 43 Resp: 702

Ion Ratio Lower Upper

43 100

58 53.4 42.0 63.0

57 14.2 15.2 22.8#



#60

4-Bromofluorobenzene

Concen: 30.286 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.006 min

Lab File: VX026454.D

Acq: 14 Jan 2022 14:33

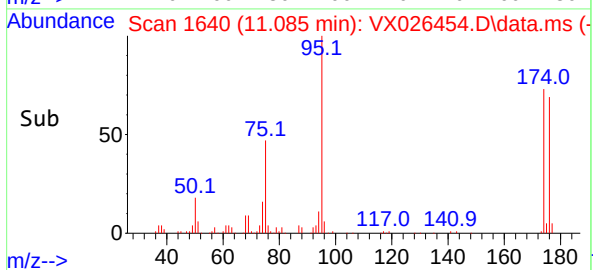
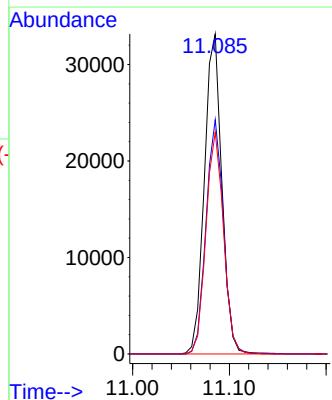
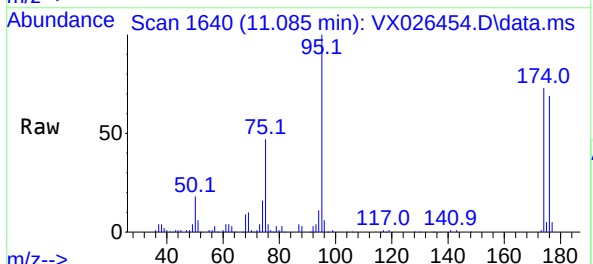
Tgt Ion: 95 Resp: 41767

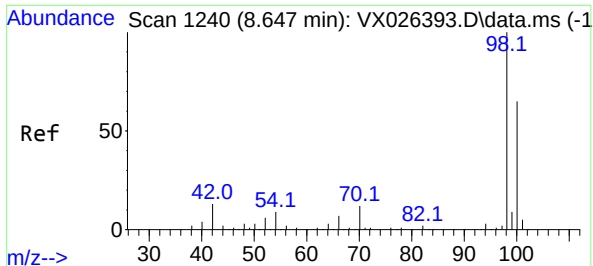
Ion Ratio Lower Upper

95 100

174 73.0 58.0 87.0

176 69.4 56.5 84.7

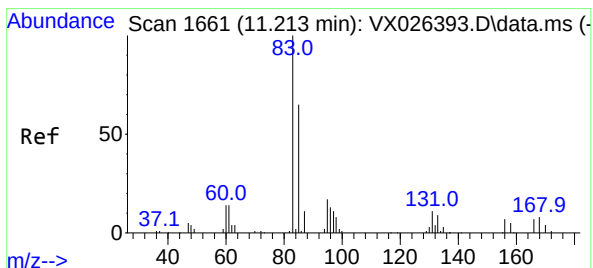
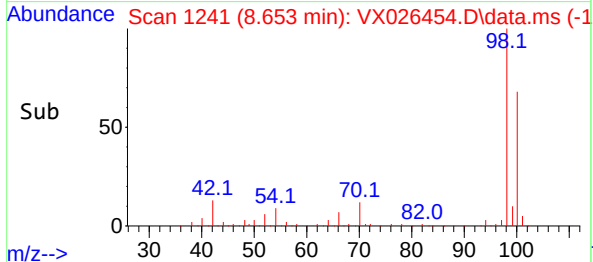
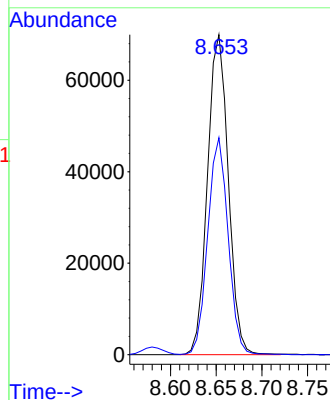
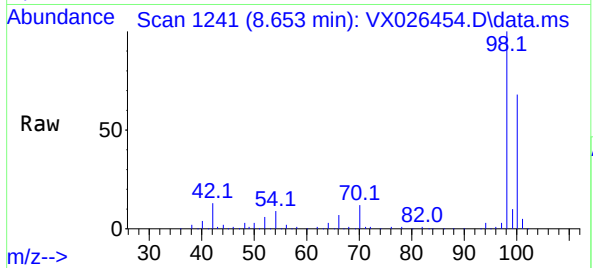




#63
Toluene-d8
Concen: 29.131 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

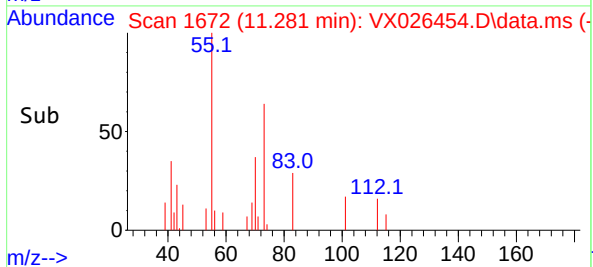
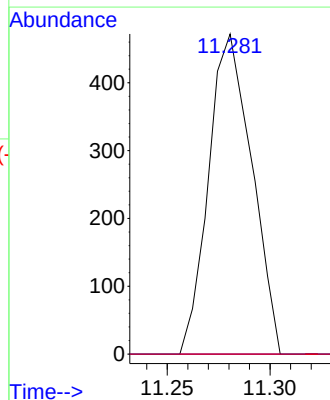
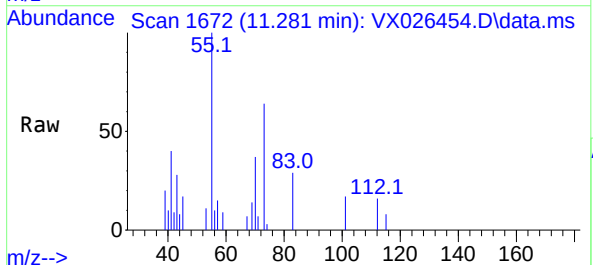
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

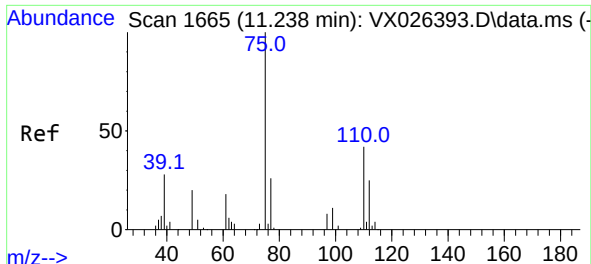
Tgt Ion: 98 Resp: 110583
Ion Ratio Lower Upper
98 100
100 66.4 52.5 78.7



#71
1,1,2,2-Tetrachloroethane
Concen: 0.531 ug/l
RT: 11.281 min Scan# 1672
Delta R.T. 0.067 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

Tgt Ion: 83 Resp: 691
Ion Ratio Lower Upper
83 100
131 0.0 5.3 16.1#
85 12.7 32.3 96.9#

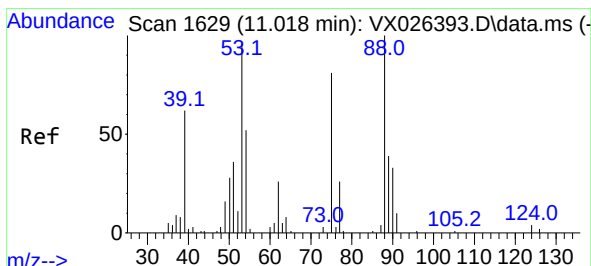
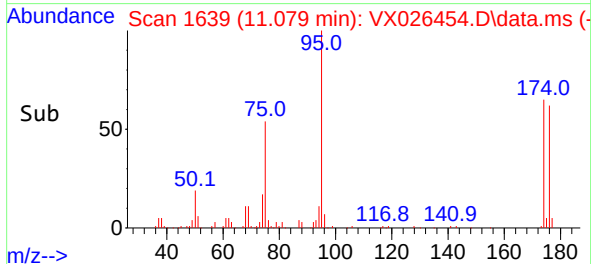
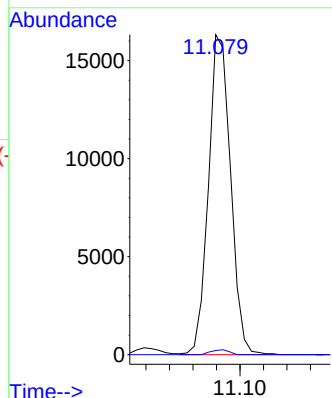
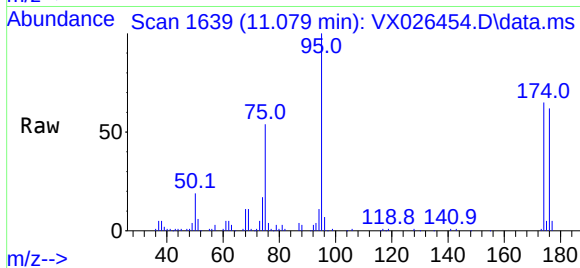




#72
1,2,3-Trichloropropane
Concen: 16.159 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

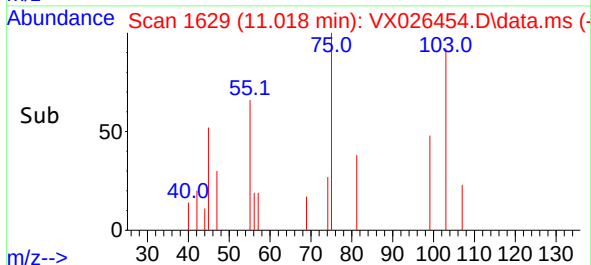
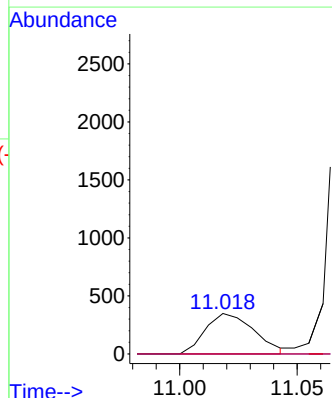
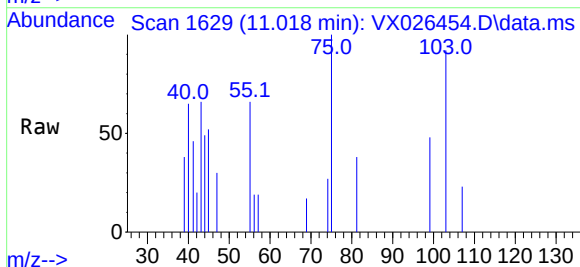
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

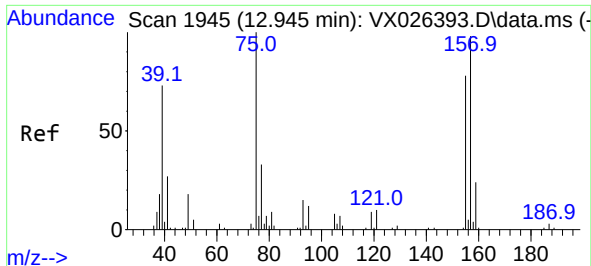
Tgt Ion: 75 Resp: 21312
Ion Ratio Lower Upper
75 100
77 1.3 0.0 76.2



#77
t-1,4-Dichloro-2-butene
Concen: 1.268 ug/l
RT: 11.018 min Scan# 1629
Delta R.T. 0.000 min
Lab File: VX026454.D
Acq: 14 Jan 2022 14:33

Tgt Ion: 75 Resp: 503
Ion Ratio Lower Upper
75 100
53 0.0 59.0 176.8#
89 0.0 24.0 72.0#





#88
 1,2-Dibromo-3-Chloropropane
 Concen: 2.468 ug/l
 RT: 12.878 min Scan# 1934
 Delta R.T. -0.067 min
 Lab File: VX026454.D
 Acq: 14 Jan 2022 14:33

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

Tgt Ion: 75 Resp: 819
 Ion Ratio Lower Upper
 75 100
 155 0.0 65.4 98.0#
 157 0.0 82.1 123.1#

