

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091120\
 Data File : VX018356.D
 Acq On : 11 Sep 2020 12:54
 Operator : JC/SP
 Sample : L3955-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 12 05:44:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X090420W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 04 12:13:41 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	76660	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	381500	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	357160	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	182064	30.10	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.33%
60) 4-Bromofluorobenzene	11.12	95	167277	27.02	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	90.07%
63) Toluene-d8	8.70	98	448386	28.48	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	94.93%

Target Compounds

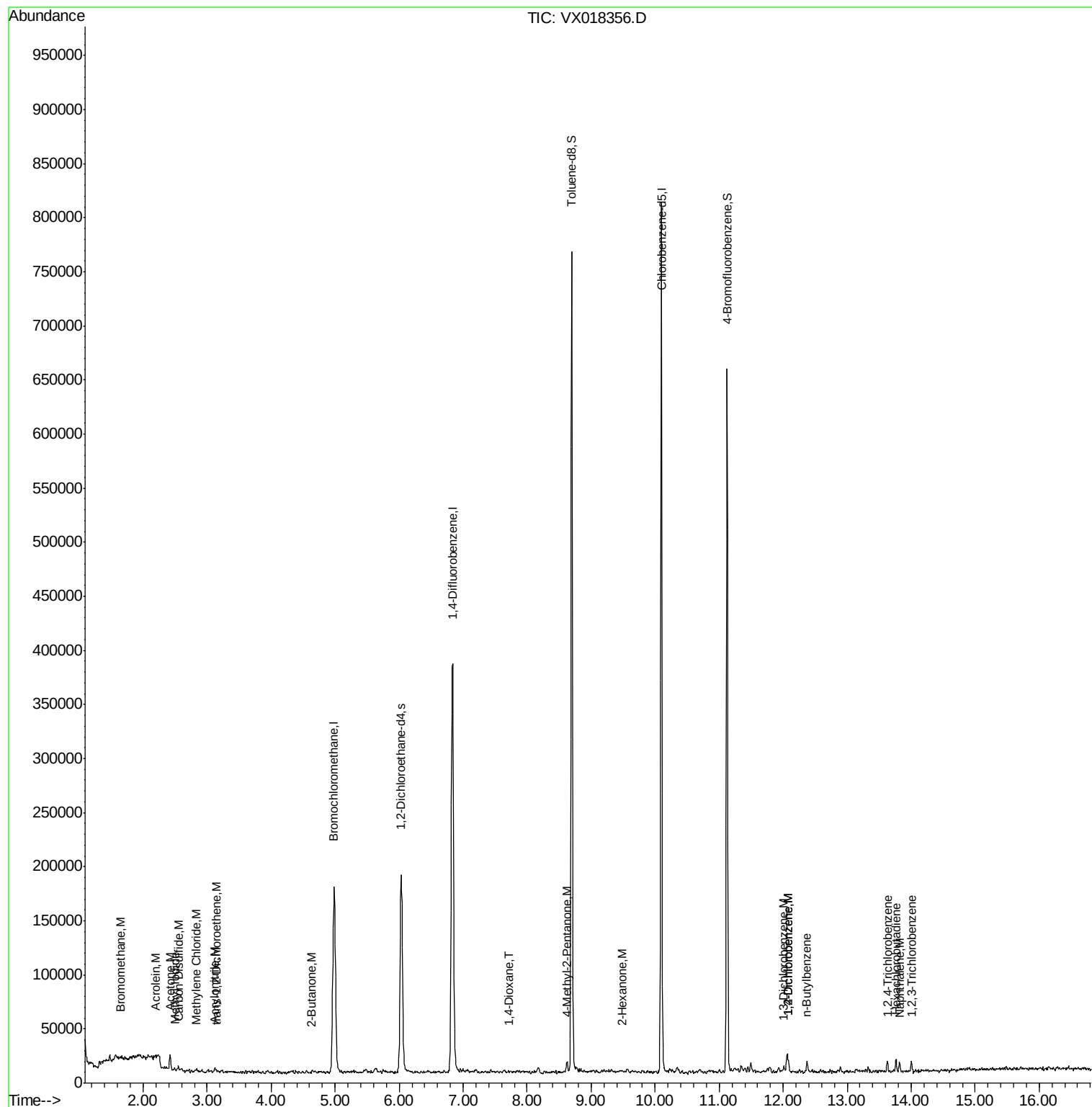
					Ovalue
5) Bromomethane	1.64	94	718	0.233	ug/l 99
11) Methyl Iodide	2.50	142	1435	7.801	ug/l # 58
13) Acrolein	2.20	56	432	1.054	ug/l 100
14) Acrylonitrile	3.12	53	1236	0.537	ug/l # 51
15) Acetone	2.42	58	4246	6.790	ug/l 90
16) Carbon Disulfide	2.56	76	4100	0.365	ug/l # 84
18) Methylene Chloride	2.83	84	1305	0.288	ug/l # 72
19) trans-1,2-Dichloroethene	3.14	96	905	0.211	ug/l # 92
30) 2-Butanone	4.63	43	668	0.209	ug/l # 68
45) 1,4-Dioxane	7.71	88	257	3.011	ug/l # 58
58) 4-Methyl-2-Pentanone	8.62	43	6953	1.132	ug/l 98
59) 2-Hexanone	9.48	43	1126	0.242	ug/l 95
83) 1,3-Dichlorobenzene	12.01	146	2385	0.244	ug/l 98
84) 1,4-Dichlorobenzene	12.09	146	2119	0.217	ug/l 88
85) n-Butylbenzene	12.37	91	3237	0.202	ug/l 95
87) 1,2-Dichlorobenzene	12.09	146	2119	0.231	ug/l 90
89) 1,2,4-Trichlorobenzene	13.63	180	2493	0.403	ug/l 92
90) Hexachlorobutadiene	13.77	225	1501	0.573	ug/l 90
91) Naphthalene	13.82	128	4539	0.235	ug/l # 91
92) 1,2,3-Trichlorobenzene	14.01	180	1897	0.310	ug/l 82

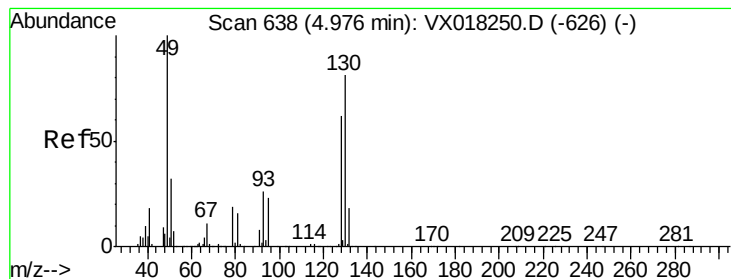
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. 0.01 min

Lab File: VX018356.D

Acq: 11 Sep 2020 12:54

Instrument :

MSVOA_X

ClientSampled :

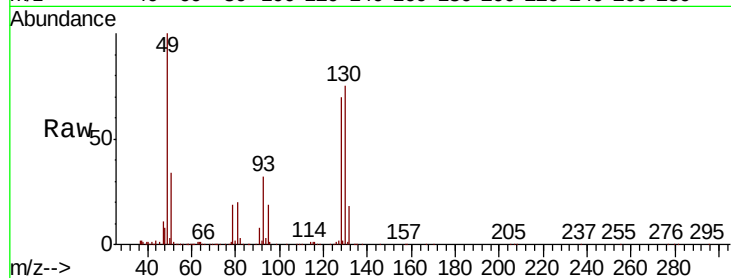
Tot Ion:128 Resp: 76660

Ion Ratio Lower Upper

128 100

49 148.6 0.0 392.0

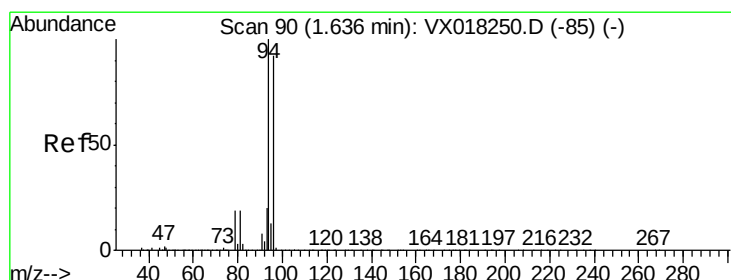
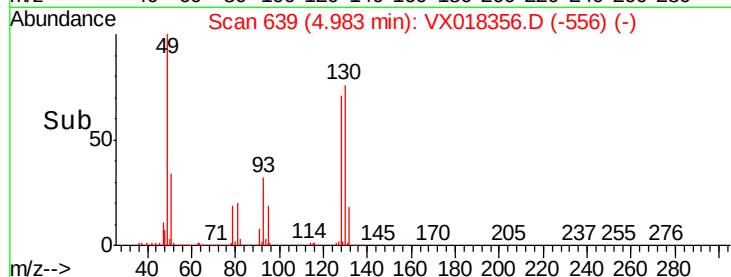
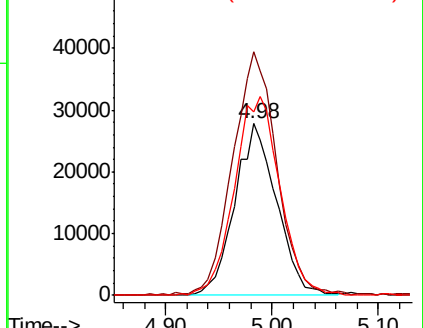
130 126.0 0.0 320.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.233 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.01 min

Lab File: VX018356.D

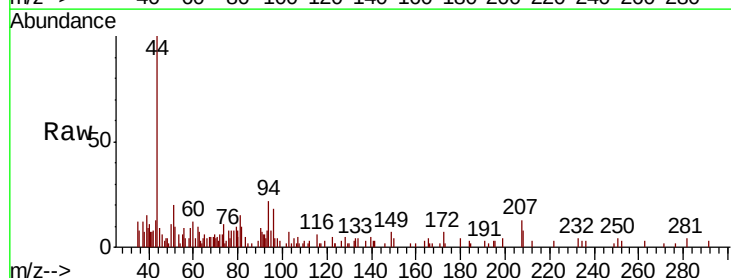
Acq: 11 Sep 2020 12:54

Tgt Ion: 94 Resp: 718

Ion Ratio Lower Upper

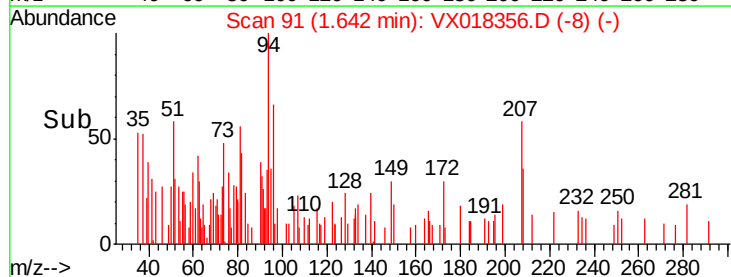
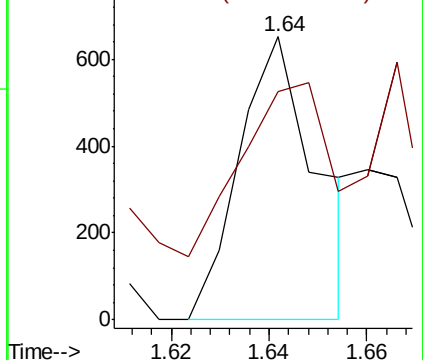
94 100

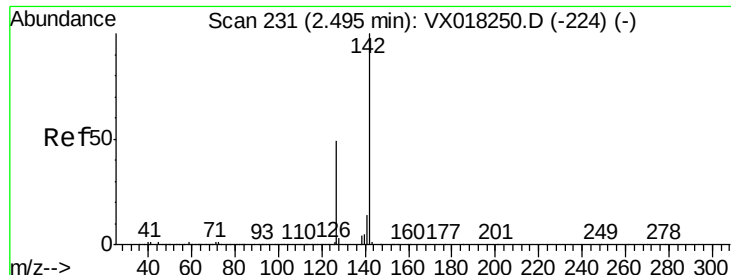
96 93.7 73.9 110.9



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0

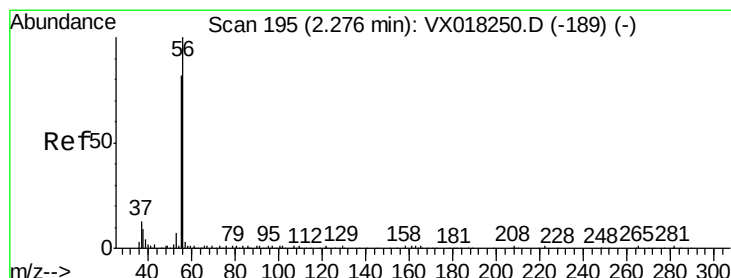
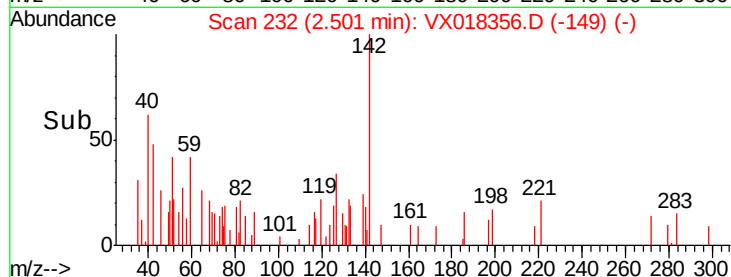
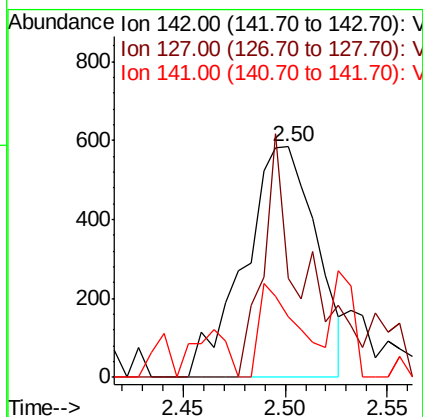
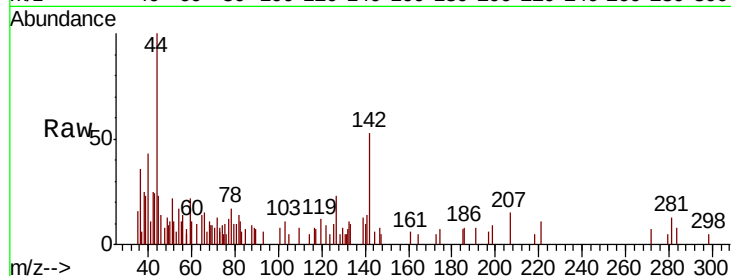




#11
Methyl Iodide
Concen: 7.801 ug/l
RT: 2.50 min Scan# 232
Delta R.T. 0.01 min
Lab File: VX018356.D
Acq: 11 Sep 2020 12:54

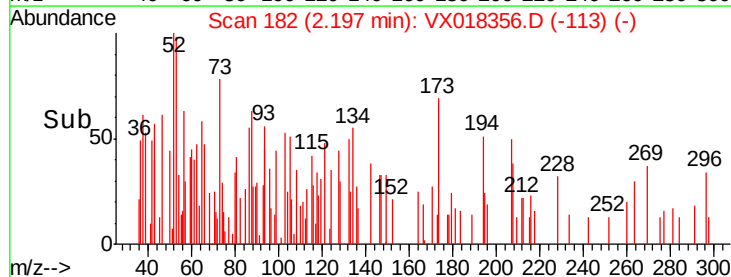
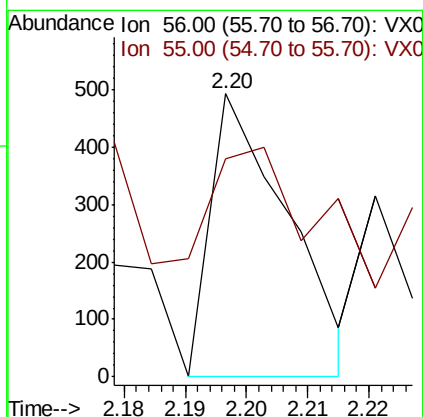
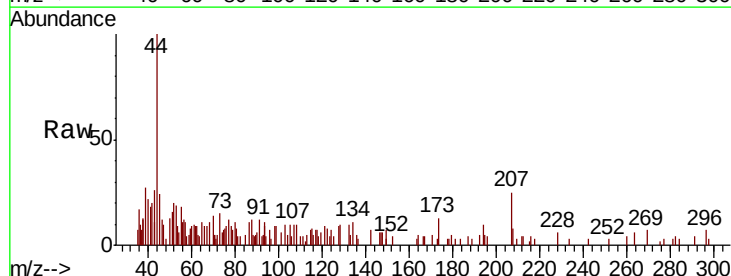
Instrument :
MSVOA_X
ClientSampleId :

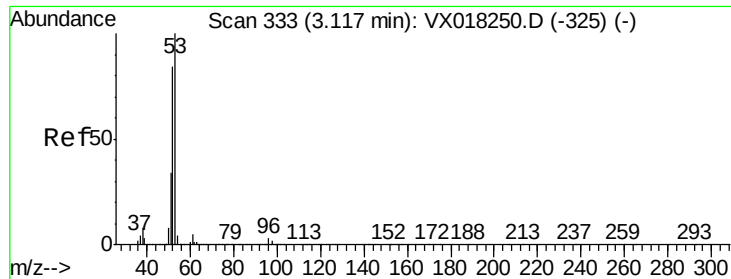
Tot Ion:142 Resp: 1435
Ion Ratio Lower Upper
142 100
127 19.4 24.6 74.0#
141 0.0 7.0 21.0#



#13
Acrolein
Concen: 1.054 ug/l
RT: 2.20 min Scan# 182
Delta R.T. -0.08 min
Lab File: VX018356.D
Acq: 11 Sep 2020 12:54

Tgt Ion: 56 Resp: 432
Ion Ratio Lower Upper
56 100
55 74.3 59.7 89.5





#14

Acrylonitrile

Concen: 0.537 ug/l

RT: 3.12 min Scan# 334

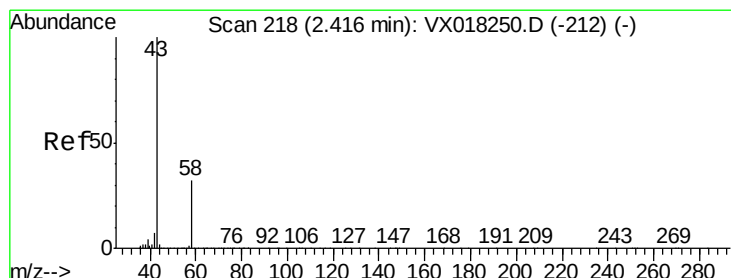
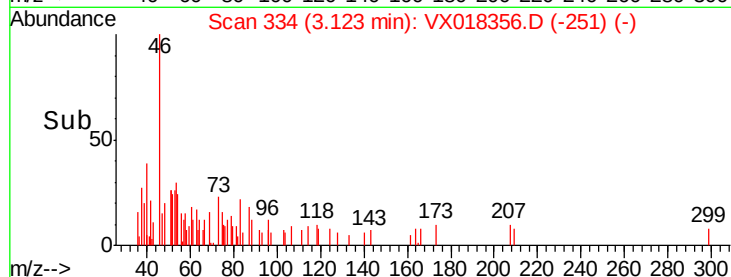
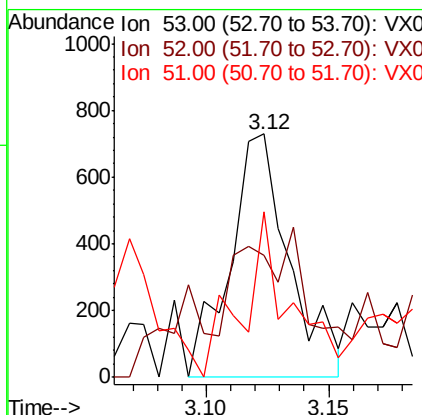
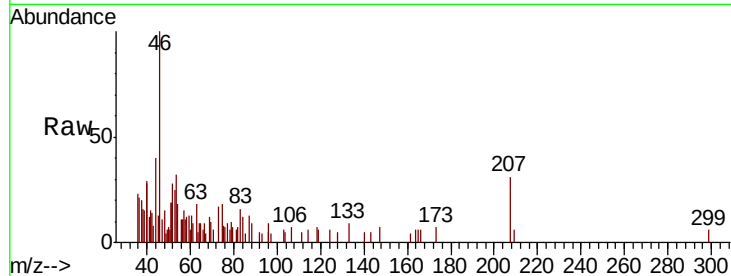
Delta R.T. 0.01 min

Lab File: VX018356.D

Acq: 11 Sep 2020 12:54

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	53	Resp:	1236
Ion	Ratio	Lower	Upper
53	100		
52	33.7	41.9	125.7#
51	16.2	18.3	54.8#



#15

Acetone

Concen: 6.790 ug/l

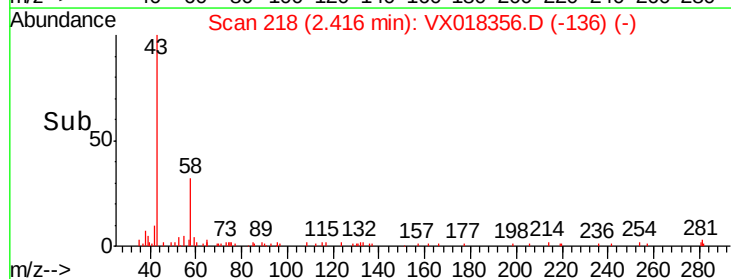
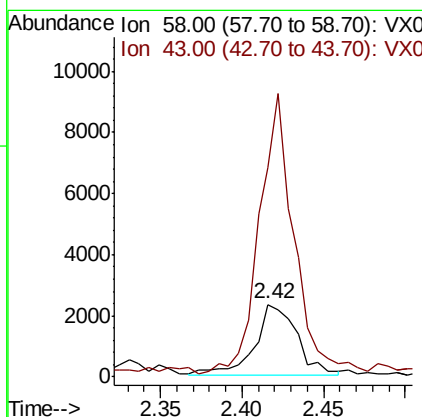
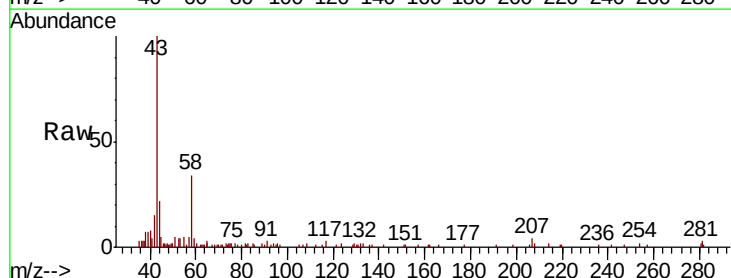
RT: 2.42 min Scan# 218

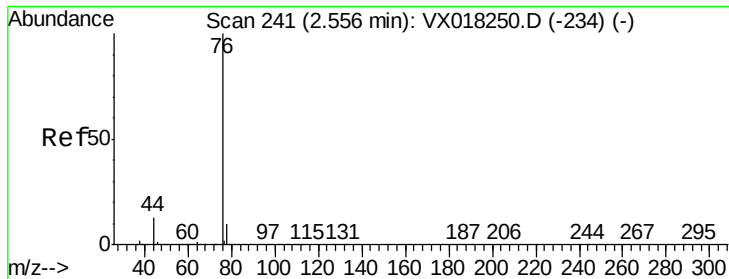
Delta R.T. 0.00 min

Lab File: VX018356.D

Acq: 11 Sep 2020 12:54

Tgt Ion:	58	Resp:	4246
Ion	Ratio	Lower	Upper
58	100		
43	290.0	248.2	372.2

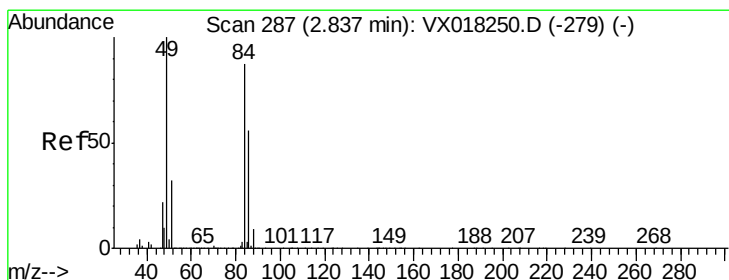
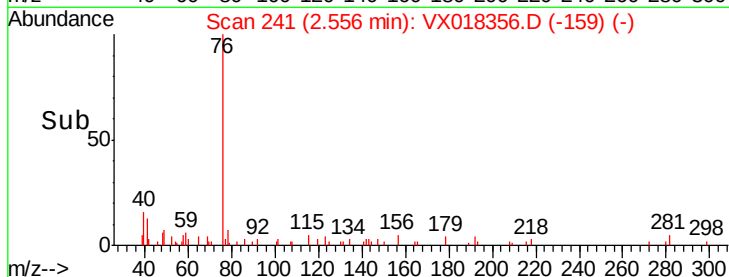
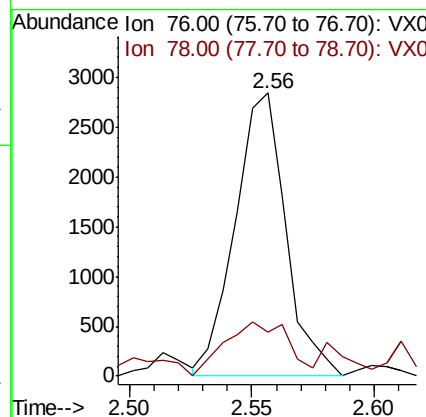
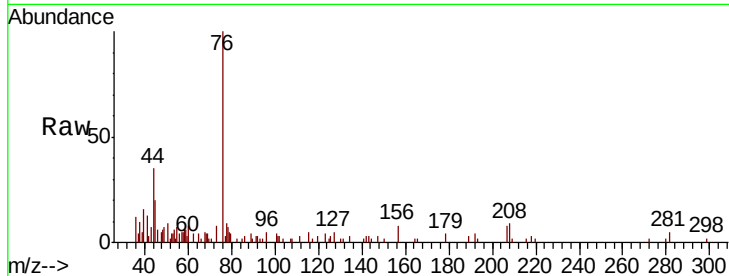




#16
Carbon Disulfide
Concen: 0.365 ug/l
RT: 2.56 min Scan# 241
Delta R.T. 0.00 min
Lab File: VX018356.D
Acq: 11 Sep 2020 12:54

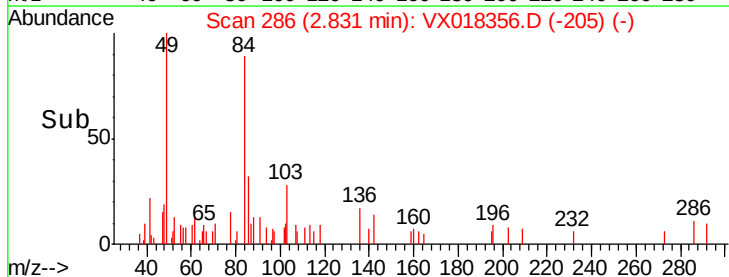
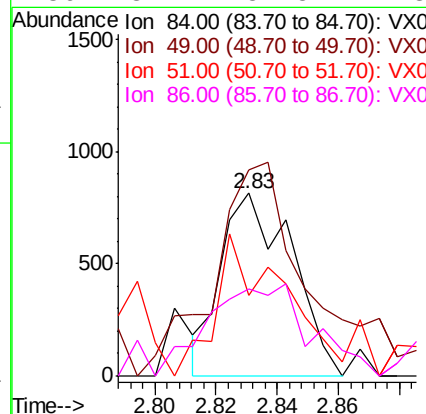
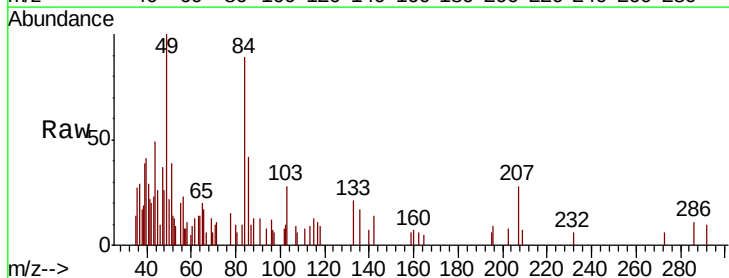
Instrument :
MSVOA_X
ClientSampleId :

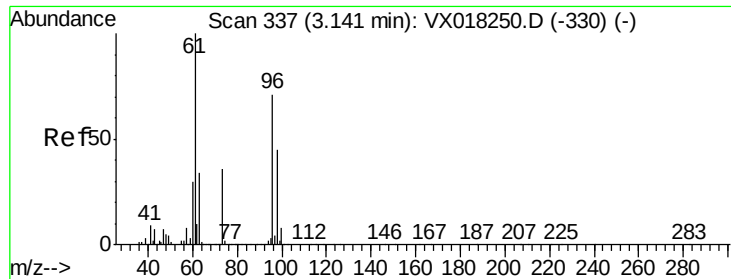
Tot Ion: 76 Resp: 4100
Ion Ratio Lower Upper
76 100
78 15.7 7.8 11.6#



#18
Methylene Chloride
Concen: 0.288 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX018356.D
Acq: 11 Sep 2020 12:54

Tgt Ion: 84 Resp: 1305
Ion Ratio Lower Upper
84 100
49 81.9 91.6 137.4#
51 36.5 29.4 44.0
86 34.1 51.5 77.3#





#19

trans-1,2-Dichloroethene

Concen: 0.211 ug/l

RT: 3.14 min Scan# 337

Delta R.T. 0.00 min

Lab File: VX018356.D

Acq: 11 Sep 2020 12:54

Instrument :

MSVOA_X

ClientSampleId :

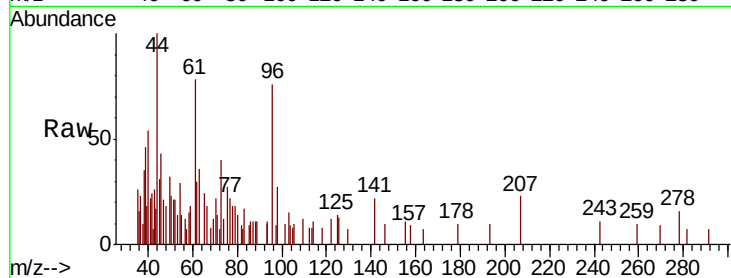
Tot Ion: 96 Resp: 905

Ion Ratio Lower Upper

96 100

61 146.6 112.8 169.2

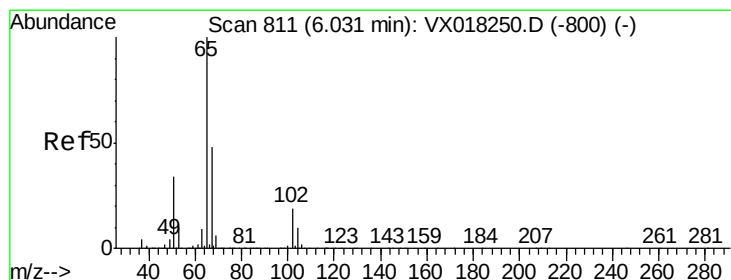
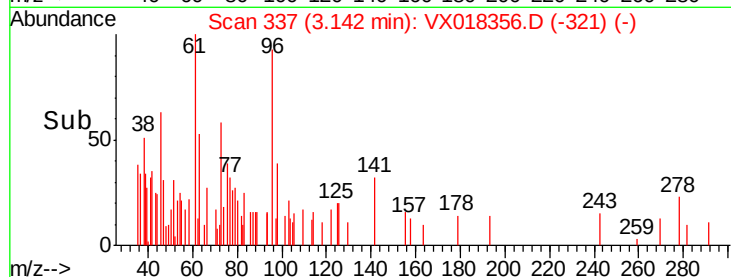
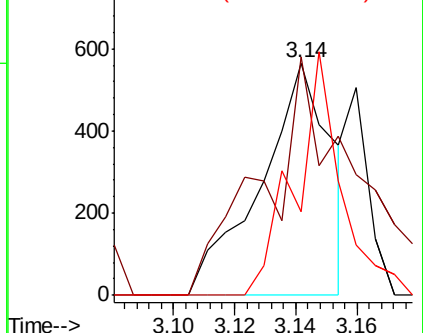
98 50.9 51.0 76.4#



Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#27

1,2-Dichloroethane-d4

Concen: 30.103 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX018356.D

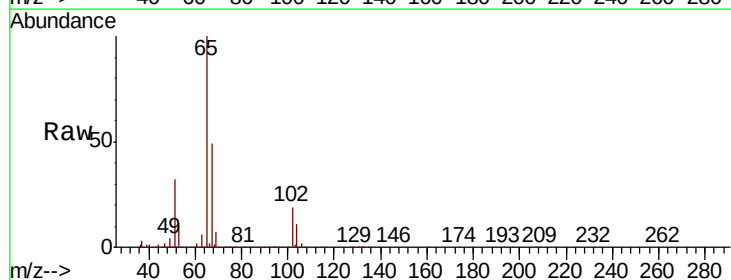
Acq: 11 Sep 2020 12:54

Tgt Ion: 65 Resp: 182064

Ion Ratio Lower Upper

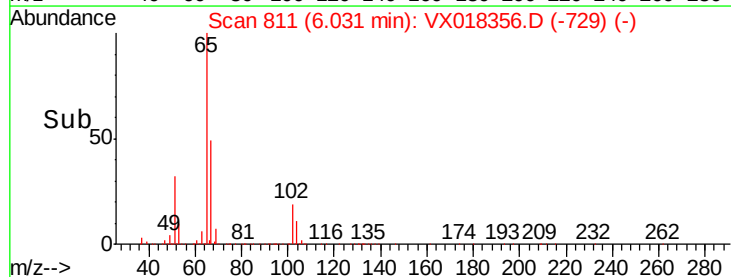
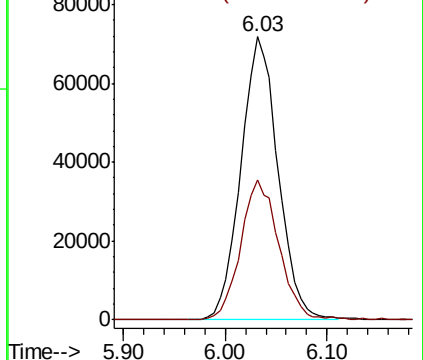
65 100

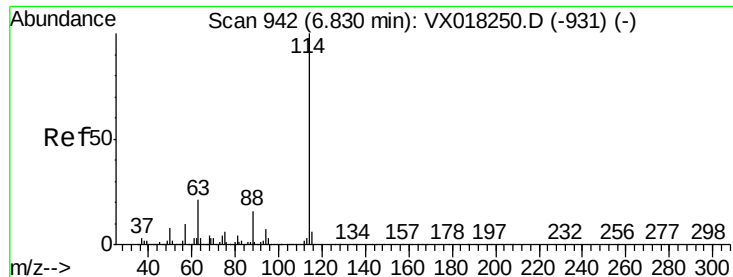
67 50.6 39.9 59.9



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

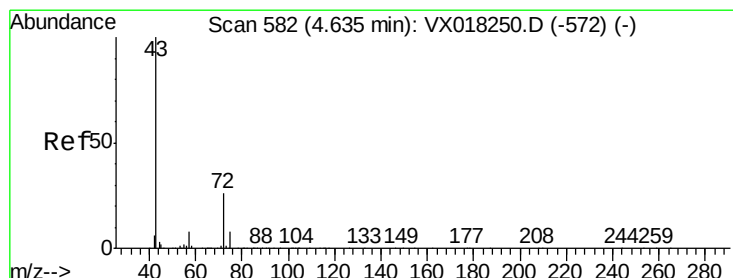
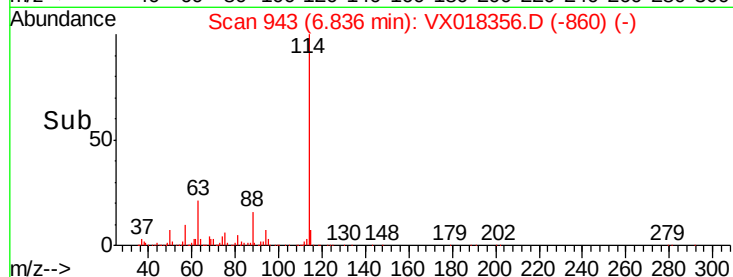
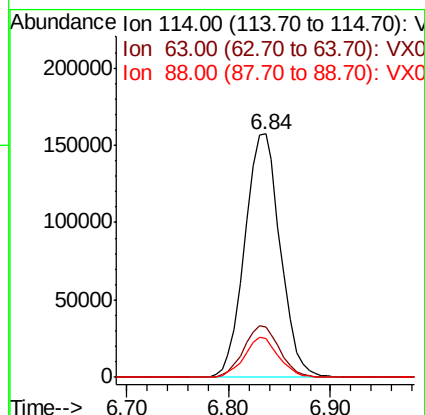
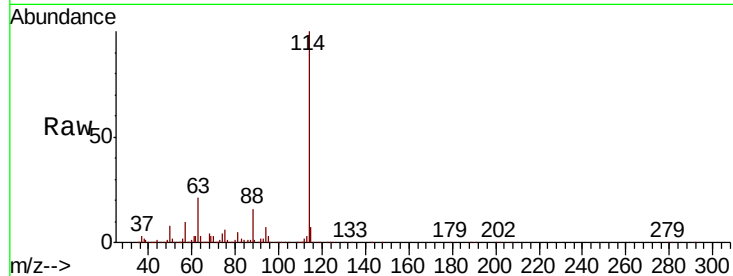




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX018356.D
 Acq: 11 Sep 2020 12:54

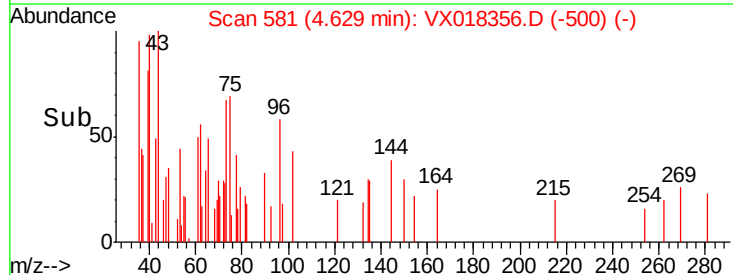
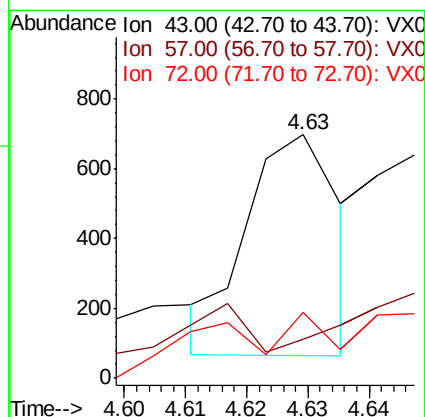
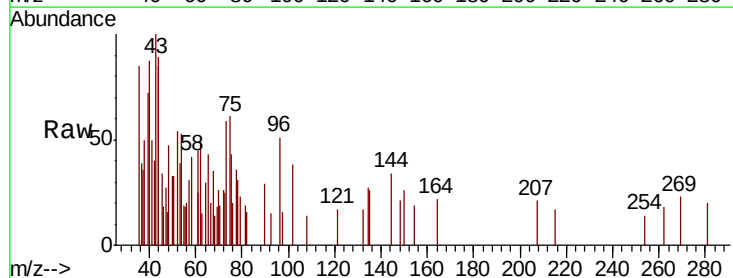
Instrument :
 MSVOA_X
 ClientSampled :

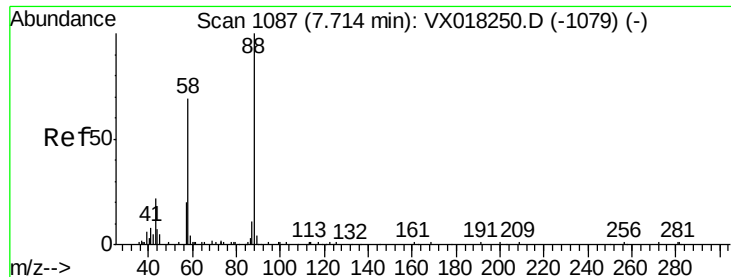
Tot Ion:114 Resp: 381500
 Ion Ratio Lower Upper
 114 100
 63 21.0 16.7 25.1
 88 15.7 12.6 18.8



#30
 2-Butanone
 Concen: 0.209 ug/l
 RT: 4.63 min Scan# 581
 Delta R.T. -0.01 min
 Lab File: VX018356.D
 Acq: 11 Sep 2020 12:54

Tgt Ion: 43 Resp: 668
 Ion Ratio Lower Upper
 43 100
 57 0.0 6.7 10.1#
 72 7.3 20.0 30.0#





#45

1,4-Dioxane

Concen: 3.011 ug/l

RT: 7.71 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VX018356.D

Acq: 11 Sep 2020 12:54

Instrument :

MSVOA_X

ClientSampled :

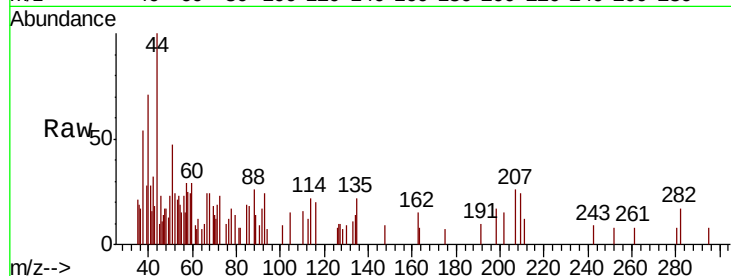
Tot Ion: 88 Resp: 257

Ion Ratio Lower Upper

88 100

43 0.0 13.6 20.4#

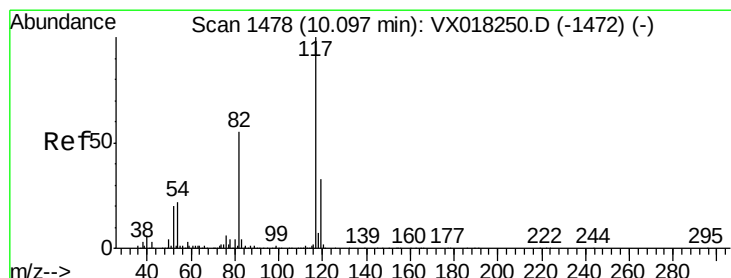
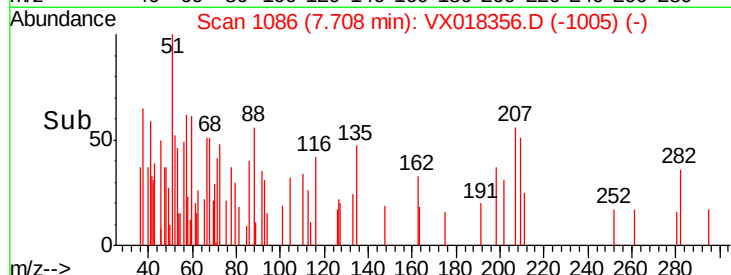
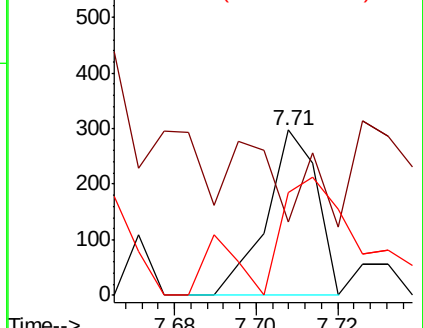
58 108.2 58.2 87.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX018356.D

Acq: 11 Sep 2020 12:54

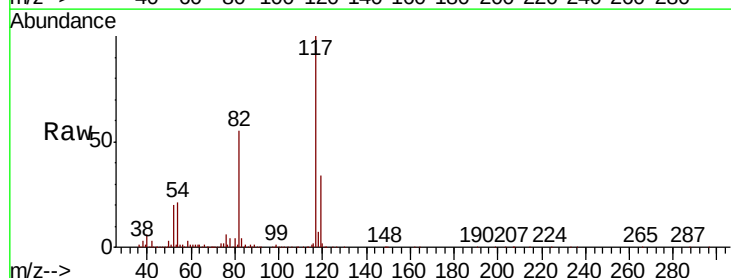
Tgt Ion: 117 Resp: 357160

Ion Ratio Lower Upper

117 100

82 54.5 44.2 66.4

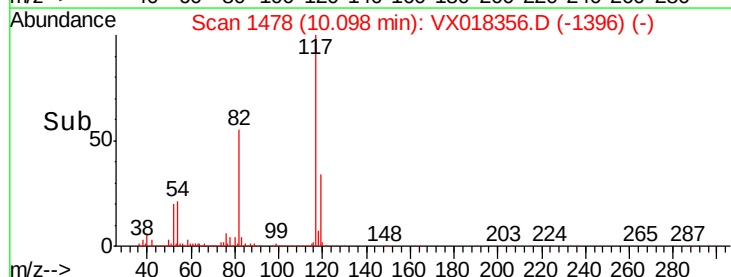
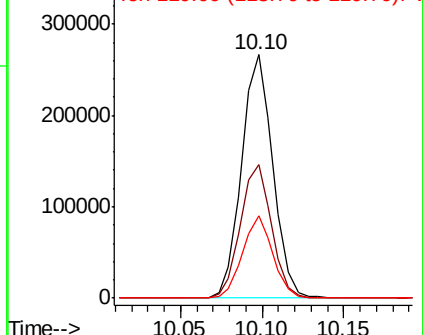
119 32.6 26.1 39.1

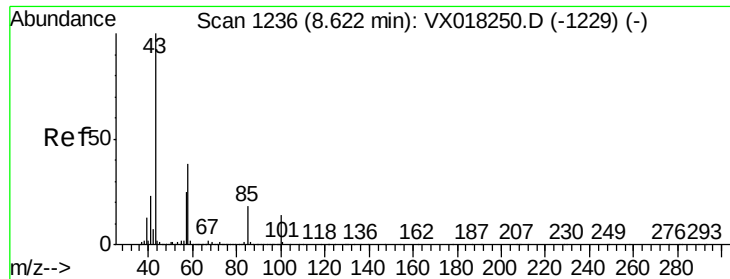


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V

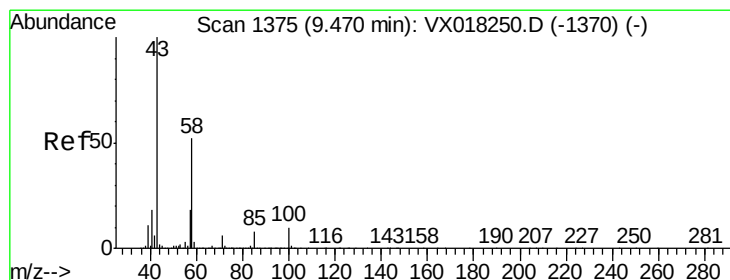
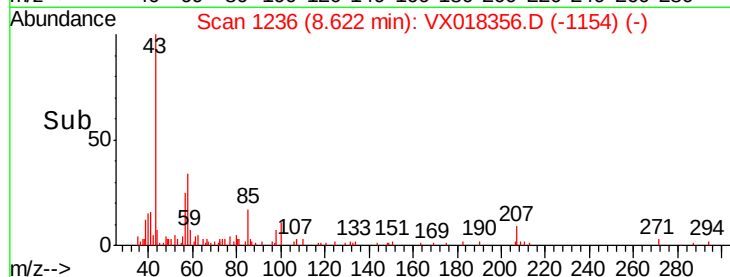
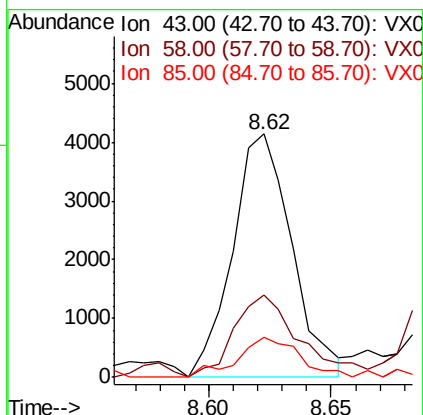
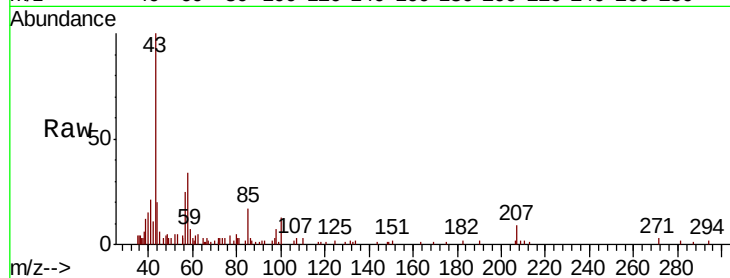




#58
4-Methyl-2-Pentanone
Concen: 1.132 ug/l
RT: 8.62 min Scan# 1236
Delta R.T. 0.00 min
Lab File: VX018356.D
Acq: 11 Sep 2020 12:54

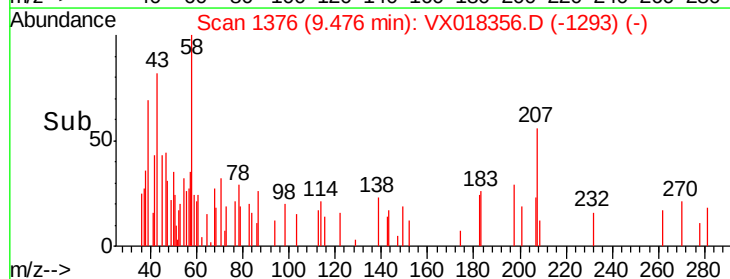
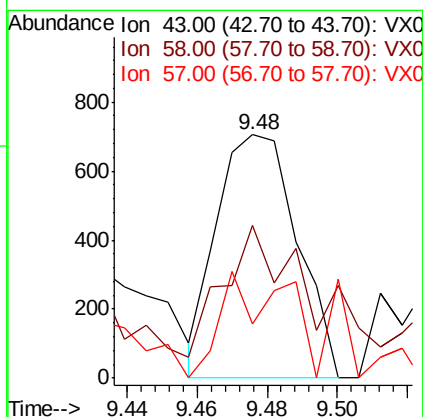
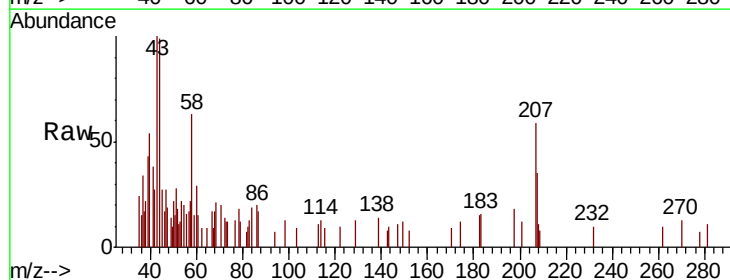
Instrument :
MSVOA_X
ClientSampled :

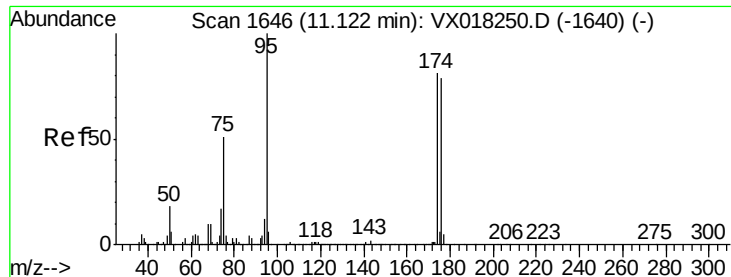
Tot Ion	43.00	Resp	6953
Ion Ratio	Lower	Upper	
43	100		
58	37.8	30.0	45.0
85	15.3	14.2	21.4



#59
2-Hexanone
Concen: 0.242 ug/l
RT: 9.48 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VX018356.D
Acq: 11 Sep 2020 12:54

Tgt Ion	43	Resp	1126
Ion Ratio	Lower	Upper	
43	100		
58	57.4	42.5	63.7
57	17.7	14.8	22.2

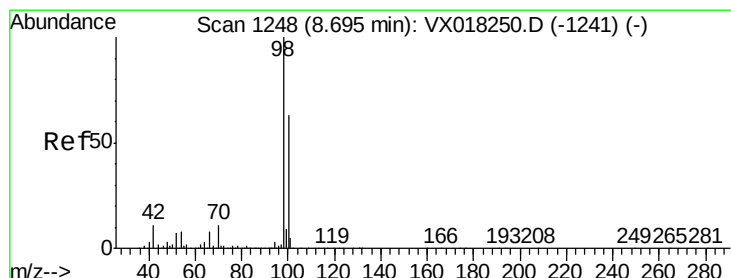
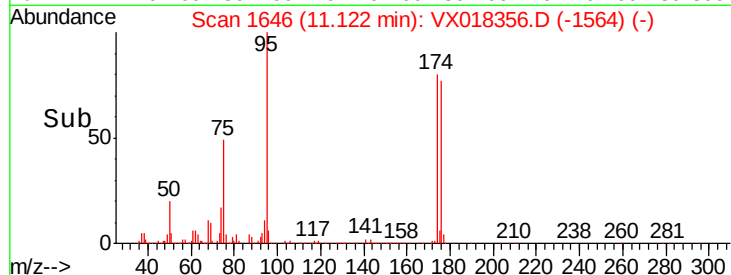
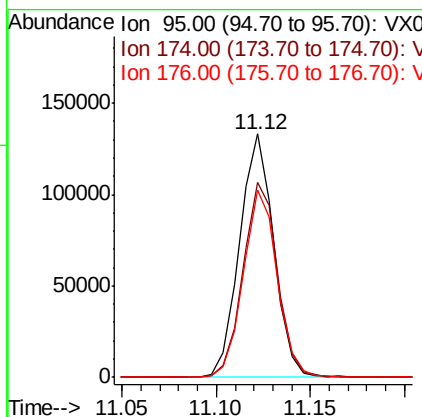
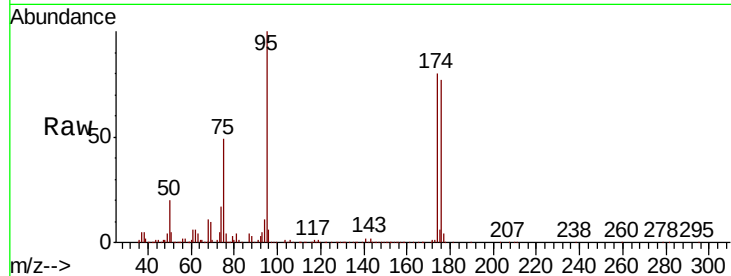




#60
4-Bromofluorobenzene
Concen: 27.022 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. 0.00 min
Lab File: VX018356.D
Acq: 11 Sep 2020 12:54

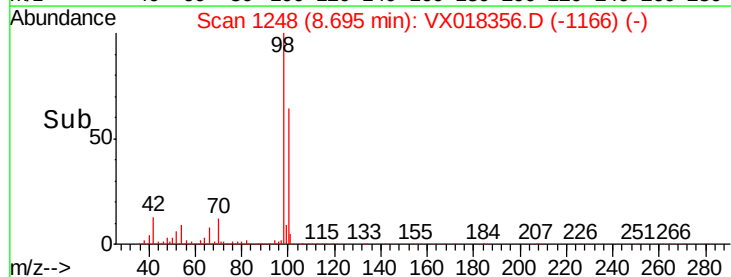
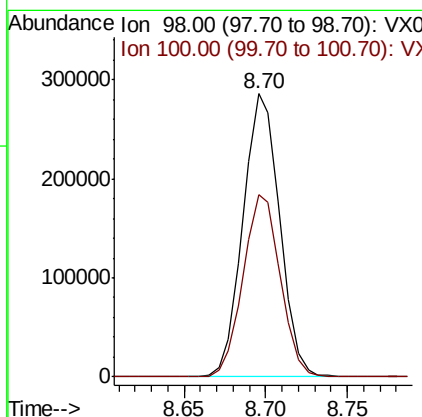
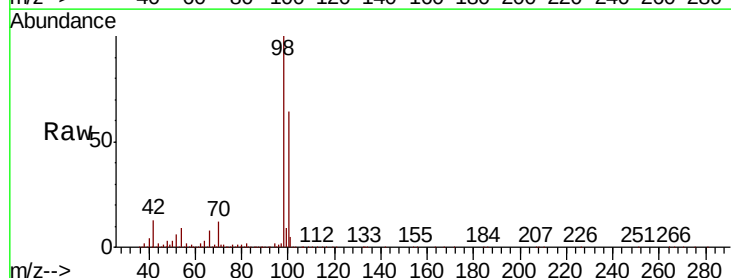
Instrument :
MSVOA_X
ClientSampleId :

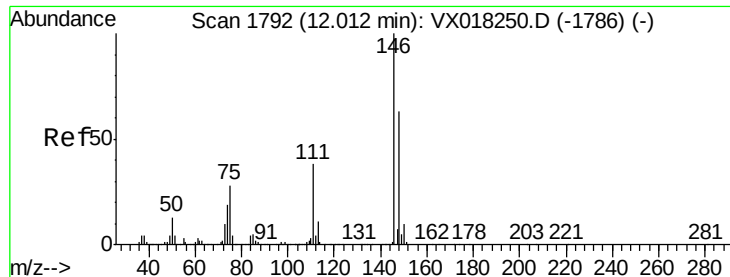
Tot Ion	Ratio	Lower	Upper
95	100		
174	80.3	64.2	96.4
176	76.4	62.2	93.4



#63
Toluene-d8
Concen: 28.483 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. 0.00 min
Lab File: VX018356.D
Acq: 11 Sep 2020 12:54

Tgt Ion	Ratio	Lower	Upper
98	100		
100	65.2	51.4	77.0

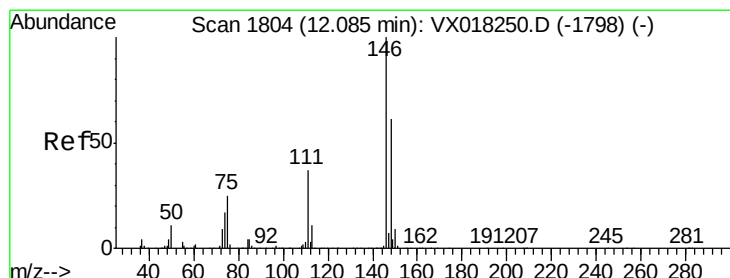
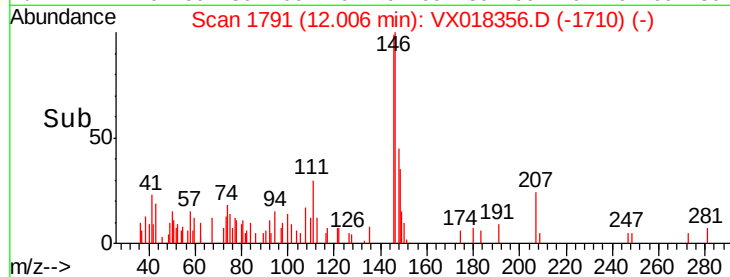
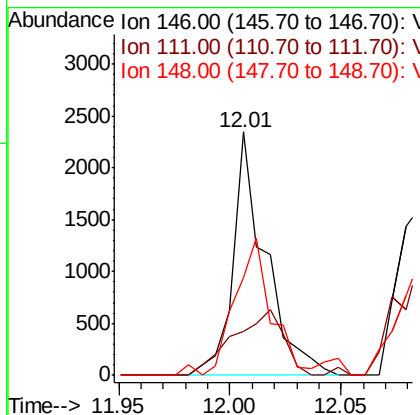
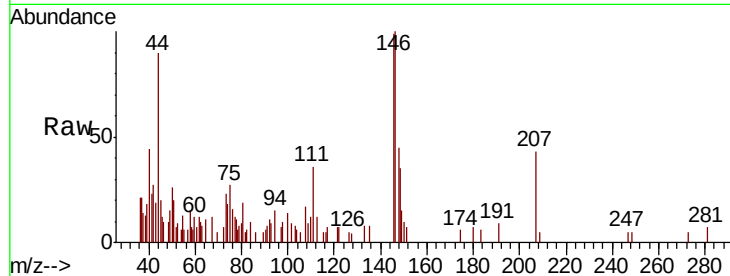




#83
 1,3-Dichlorobenzene
 Concen: 0.244 ug/l
 RT: 12.01 min Scan# 1791
 Delta R.T. -0.01 min
 Lab File: VX018356.D
 Acq: 11 Sep 2020 12:54

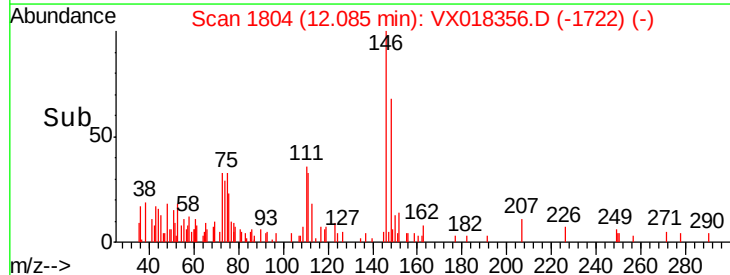
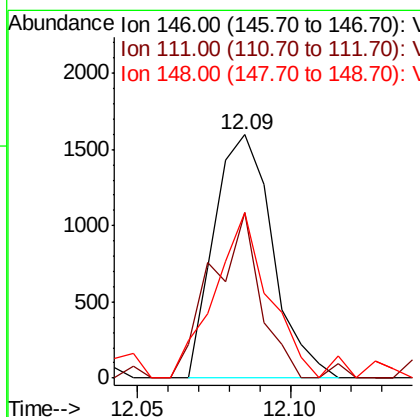
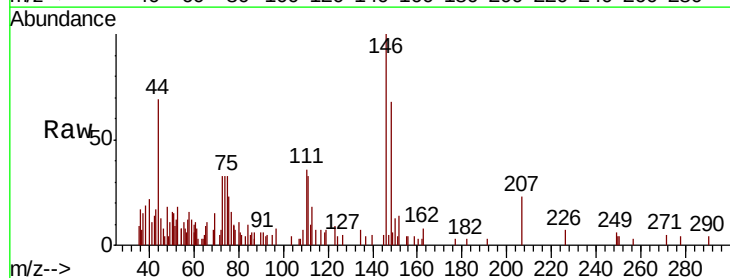
Instrument :
 MSVOA_X
 ClientSampleId :

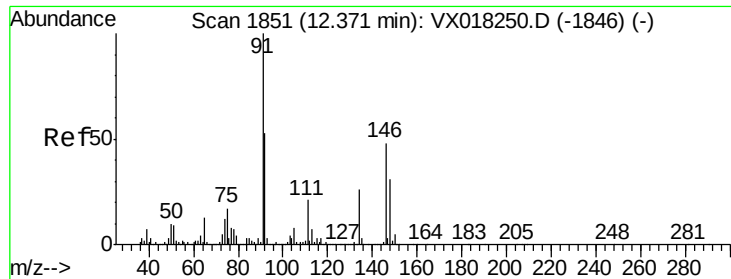
Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.0	59.9
148	62.9	32.1	96.3



#84
 1,4-Dichlorobenzene
 Concen: 0.217 ug/l
 RT: 12.09 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VX018356.D
 Acq: 11 Sep 2020 12:54

Tgt Ion	Ratio	Lower	Upper
146	100		
111	56.8	19.3	57.8
148	63.0	31.7	95.1





#85

n-Butylbenzene

Concen: 0.202 ug/l

RT: 12.37 min Scan# 1851

Delta R.T. 0.00 min

Lab File: VX018356.D

Acq: 11 Sep 2020 12:54

Instrument :

MSVOA_X

ClientSampleId :

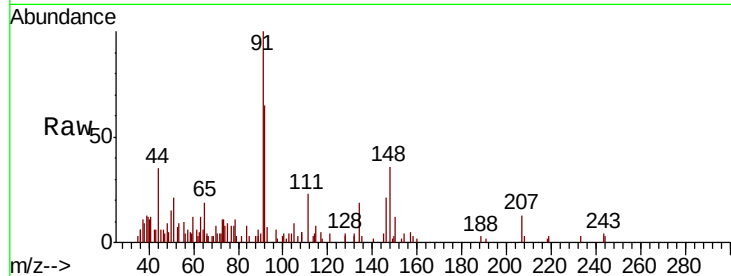
Tot Ion: 91 Resp: 3237

Ion Ratio Lower Upper

91 100

92 51.7 0.0 105.0

134 31.6 0.0 51.0

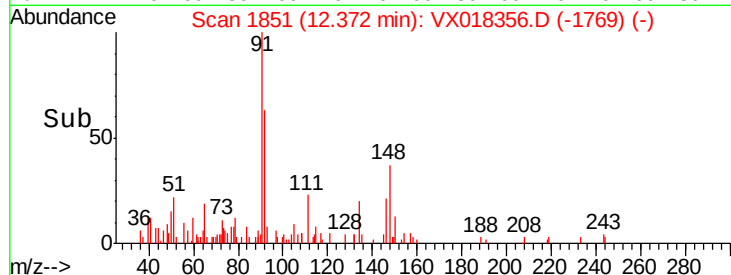


Abundance Ion 91.00 (90.70 to 91.70): VX018250.D (-1846) (-)

Ion 92.00 (91.70 to 92.70): VX018250.D (-1846) (-)

Ion 134.00 (133.70 to 134.70): VX018250.D (-1846) (-)

Time-->

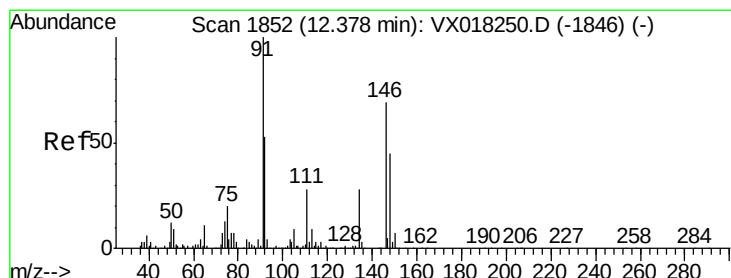


Abundance Ion 91.00 (90.70 to 91.70): VX018356.D (-1769) (-)

Ion 92.00 (91.70 to 92.70): VX018356.D (-1769) (-)

Ion 134.00 (133.70 to 134.70): VX018356.D (-1769) (-)

Time-->



#87

1,2-Dichlorobenzene

Concen: 0.231 ug/l

RT: 12.09 min Scan# 1804

Delta R.T. -0.29 min

Lab File: VX018356.D

Acq: 11 Sep 2020 12:54

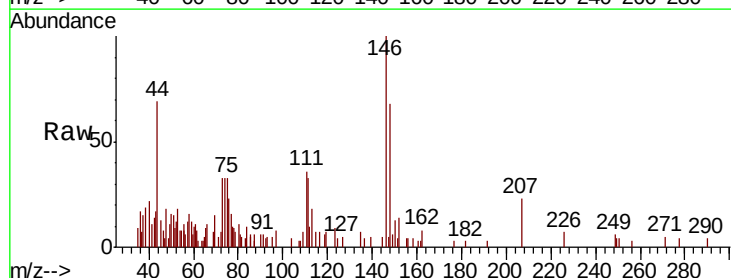
Tgt Ion: 146 Resp: 2119

Ion Ratio Lower Upper

146 100

111 56.8 21.4 64.3

148 63.0 32.0 96.2

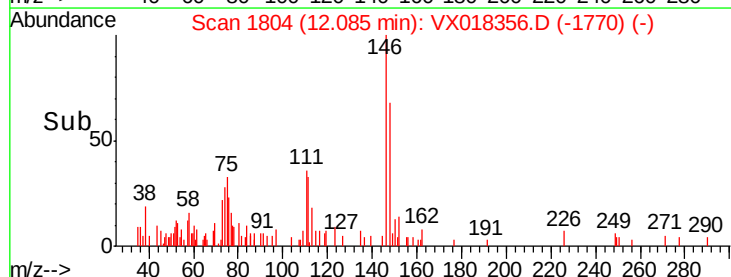


Abundance Ion 146.00 (145.70 to 146.70): VX018250.D (-1846) (-)

Ion 111.00 (110.70 to 111.70): VX018250.D (-1846) (-)

Ion 148.00 (147.70 to 148.70): VX018250.D (-1846) (-)

Time-->

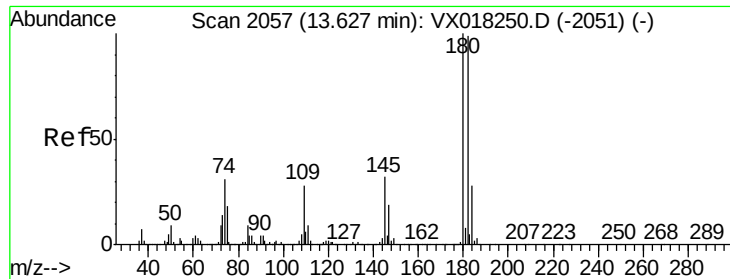


Abundance Ion 146.00 (145.70 to 146.70): VX018356.D (-1770) (-)

Ion 111.00 (110.70 to 111.70): VX018356.D (-1770) (-)

Ion 148.00 (147.70 to 148.70): VX018356.D (-1770) (-)

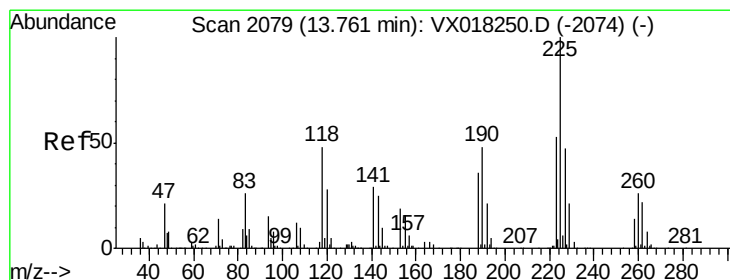
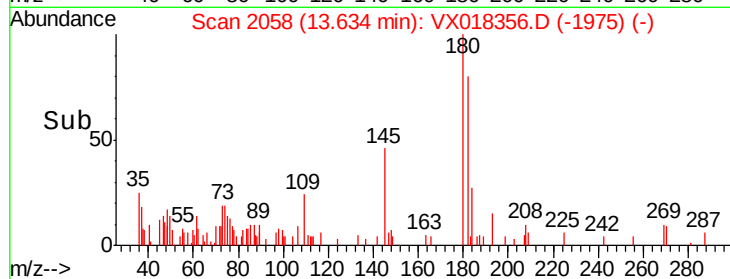
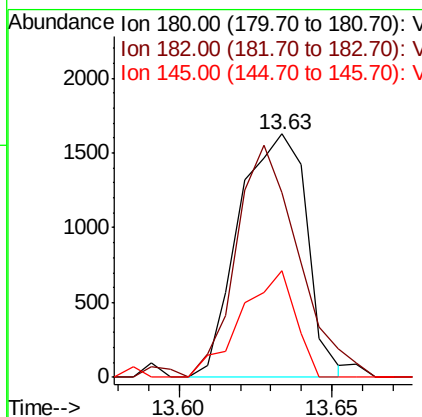
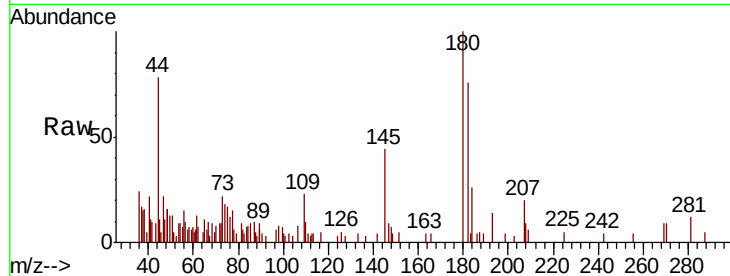
Time-->



#89
 1,2,4-Trichlorobenzene
 Concen: 0.403 ug/l
 RT: 13.63 min Scan# 2058
 Delta R.T. 0.01 min
 Lab File: VX018356.D
 Acq: 11 Sep 2020 12:54

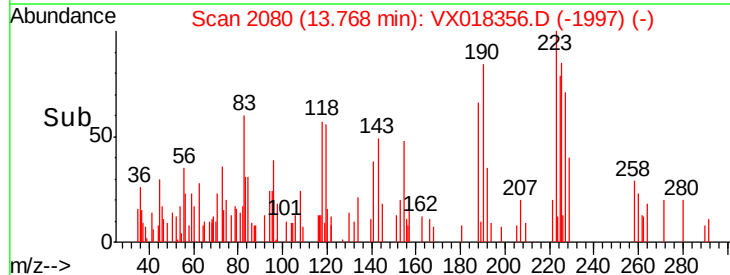
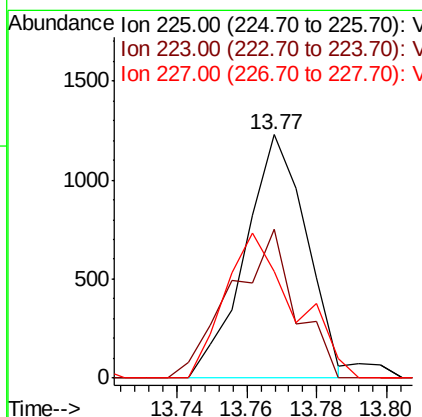
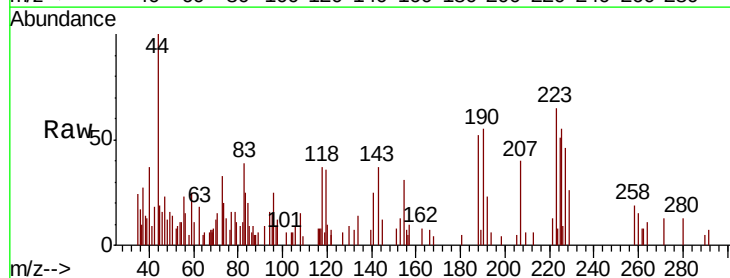
Instrument :
 MSVOA_X
 ClientSampleId :

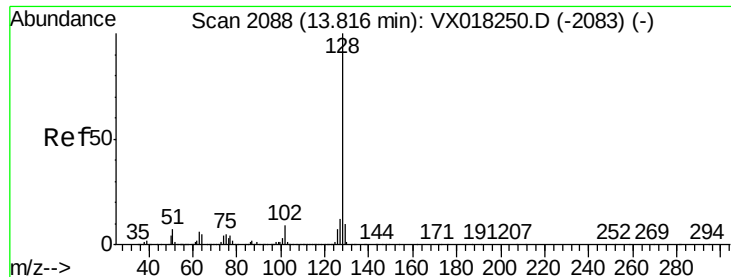
Tot Ion:180 Resp: 2493
 Ion Ratio Lower Upper
 180 100
 182 87.9 77.1 115.7
 145 35.0 25.0 37.6



#90
 Hexachlorobutadiene
 Concen: 0.573 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.01 min
 Lab File: VX018356.D
 Acq: 11 Sep 2020 12:54

Tgt Ion:225 Resp: 1501
 Ion Ratio Lower Upper
 225 100
 223 64.0 0.0 115.8
 227 67.6 0.0 117.0





#91

Naphthalene

Concen: 0.235 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX018356.D

Acq: 11 Sep 2020 12:54

Instrument :

MSVOA_X

ClientSampleId :

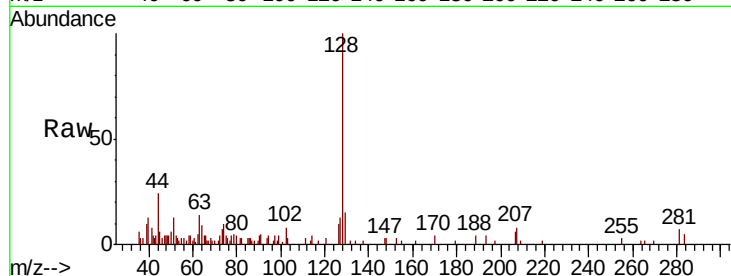
Tot Ion:128 Resp: 4539

Ion Ratio Lower Upper

128 100

127 17.1 10.2 15.4#

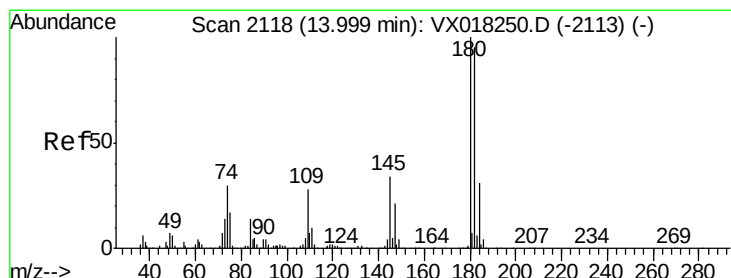
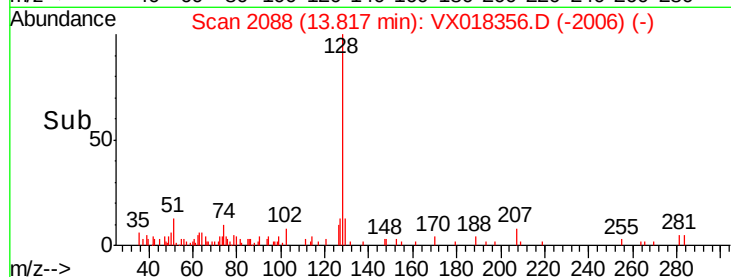
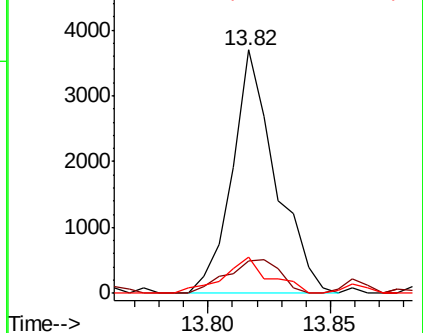
129 13.9 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#92

1,2,3-Trichlorobenzene

Concen: 0.310 ug/l

RT: 14.01 min Scan# 2119

Delta R.T. 0.01 min

Lab File: VX018356.D

Acq: 11 Sep 2020 12:54

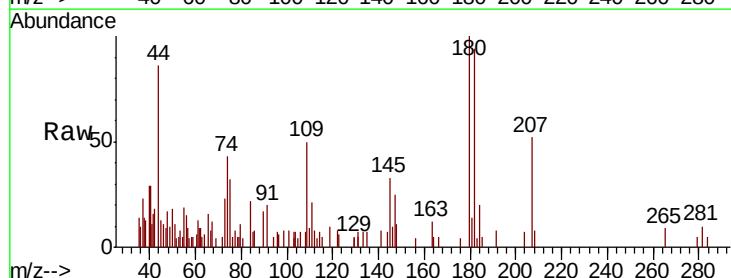
Tgt Ion:180 Resp: 1897

Ion Ratio Lower Upper

180 100

182 110.6 0.0 191.6

145 47.5 0.0 67.4



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

