

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072720\
 Data File : VX017620.D
 Acq On : 27 Jul 2020 15:59
 Operator : JC/SP
 Sample : L3404-01 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

Quant Time: Jul 28 01:14:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072720W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jul 27 11:38:31 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	95060	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	540998	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	503617	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	222439	30.45	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.50%
60) 4-Bromofluorobenzene	11.12	95	249361	29.24	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.47%
63) Toluene-d8	8.70	98	630965	28.31	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	94.37%

Target Compounds

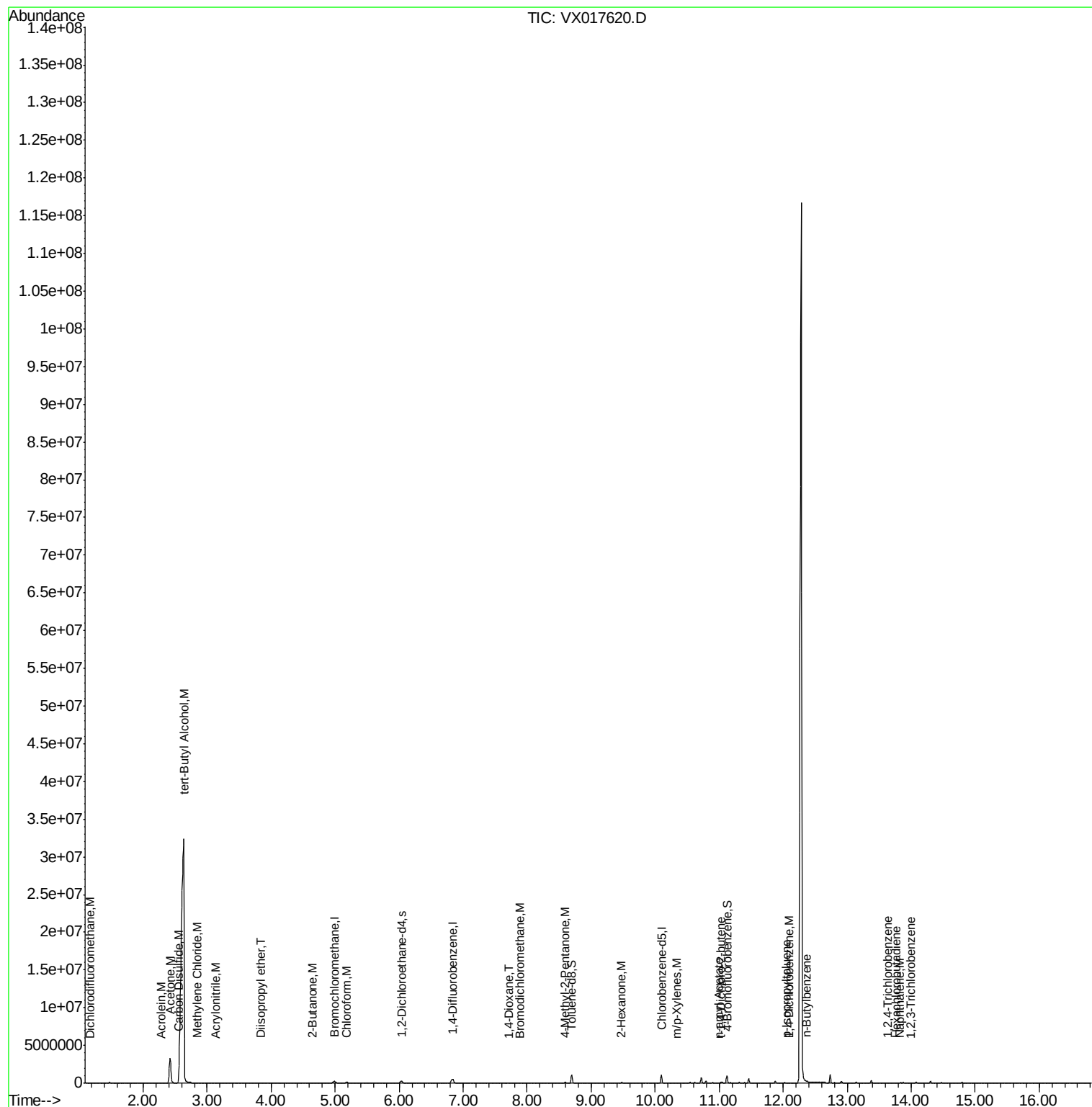
					Ovalue
2) Dichlorodifluoromethane	1.18	85	1534	0.210	ug/l 100
13) Acrolein	2.28	56	966	0.937	ug/l 99
14) Acrylonitrile	3.13	53	1380	0.475	ug/l # 76
15) Acetone	2.42	58	1089102	1371.272	ug/l 100
16) Carbon Disulfide	2.55	76	4673	0.385	ug/l 97
18) Methylene Chloride	2.83	84	4787	0.892	ug/l # 53
20) Diisopropyl ether	3.82	45	51027	2.931	ug/l 93
23) tert-Butyl Alcohol	2.64	59	3255867	2388.925	ug/l 100
25) Chloroform	5.18	83	99795	9.643	ug/l 100
30) 2-Butanone	4.64	43	48774	11.201	ug/l 100
41) Bromodichloromethane	7.88	83	9714	1.018	ug/l 98
45) 1,4-Dioxane	7.72	88	258	1.785	ug/l # 66
47) n-amyl Acetate	10.99	43	2635	0.217	ug/l 91
58) 4-Methyl-2-Pentanone	8.60	43	38498	4.283	ug/l # 85
59) 2-Hexanone	9.48	43	45901	7.256	ug/l 95
67) m/p-Xylenes	10.34	106	2349	0.227	ug/l 88
77) t-1,4-Dichloro-2-butene	11.03	75	4714	1.380	ug/l # 24
82) p-Isopropyltoluene	12.05	119	6438	0.239	ug/l 88
84) 1,4-Dichlorobenzene	12.08	146	3489	0.247	ug/l # 44
85) n-Butylbenzene	12.37	91	6613	0.257	ug/l 95
89) 1,2,4-Trichlorobenzene	13.63	180	3269	0.312	ug/l 93
90) Hexachlorobutadiene	13.77	225	2167	0.457	ug/l 86
91) Naphthalene	13.82	128	9826	0.318	ug/l # 94
92) 1,2,3-Trichlorobenzene	14.00	180	2763	0.277	ug/l 90

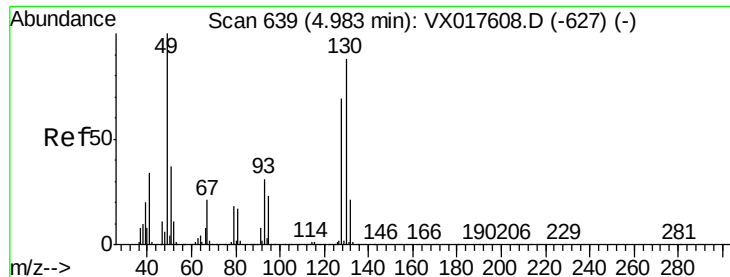
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 28 01:14:00 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072720W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Jul 27 11:38:31 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.98 min Scan# 639

Delta R.T. -0.00 min

Lab File: VX017620.D

Acq: 27 Jul 2020 15:59

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

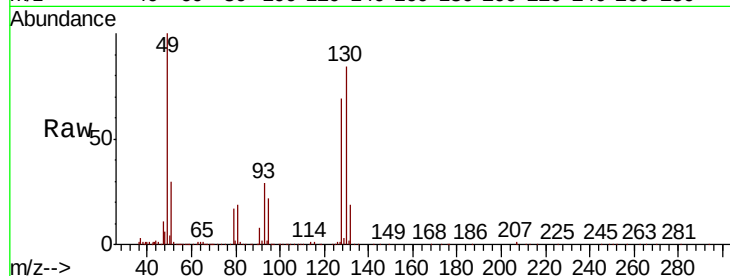
Tot Ion:128 Resp: 95060

Ion Ratio Lower Upper

128 100

49 147.1 0.0 376.0

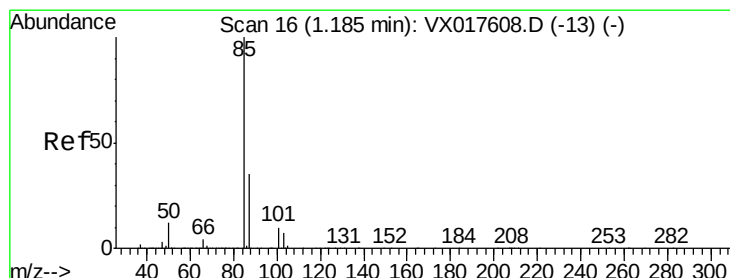
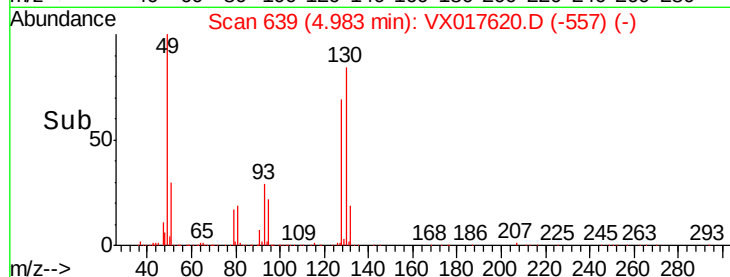
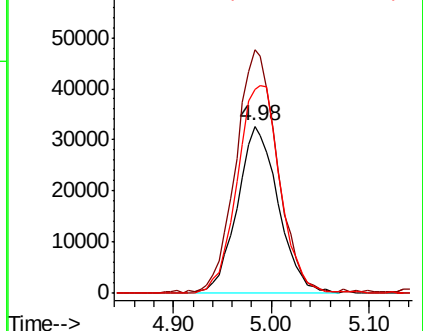
130 129.9 0.0 323.0



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



#2

Dichlorodifluoromethane

Concen: 0.210 ug/l

RT: 1.18 min Scan# 16

Delta R.T. -0.00 min

Lab File: VX017620.D

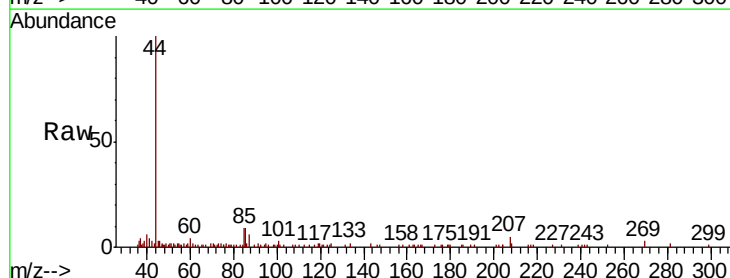
Acq: 27 Jul 2020 15:59

Tgt Ion: 85 Resp: 1534

Ion Ratio Lower Upper

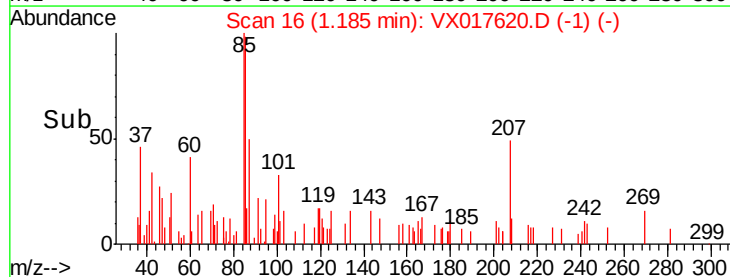
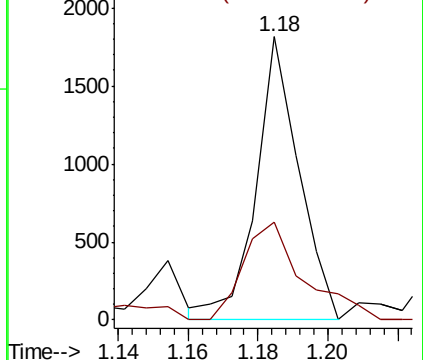
85 100

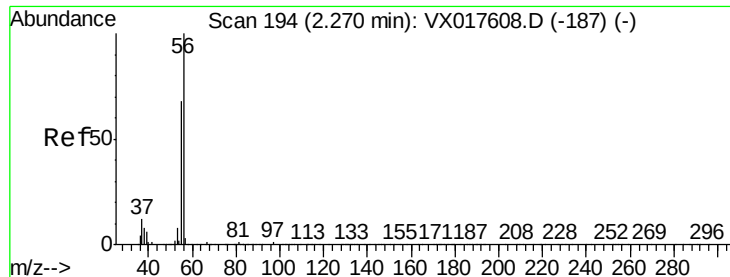
87 34.8 17.3 51.9



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#13

Acrolein

Concen: 0.937 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX017620.D

Acq: 27 Jul 2020 15:59

Instrument :

MSVOA_X

ClientSampled :

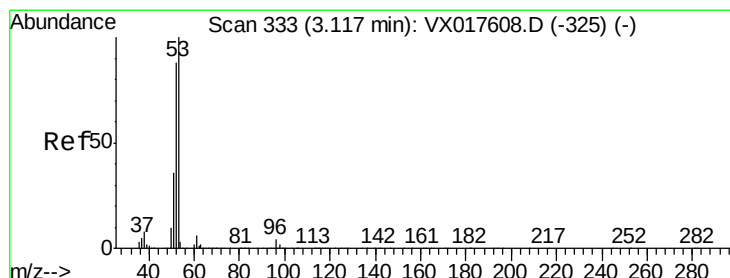
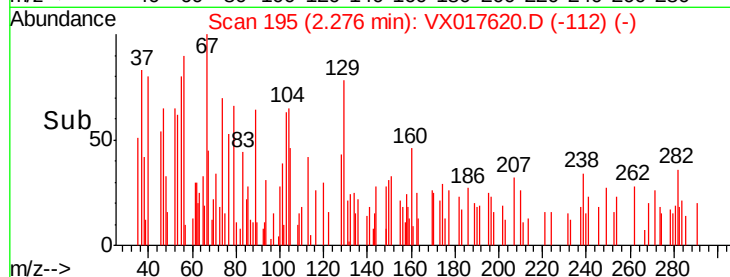
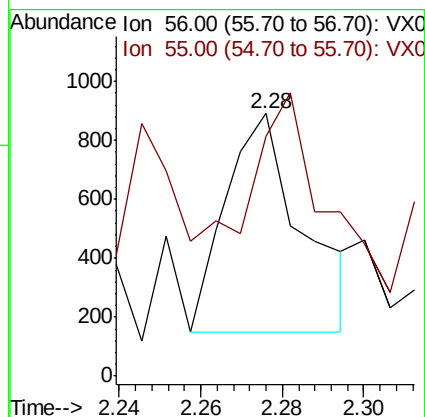
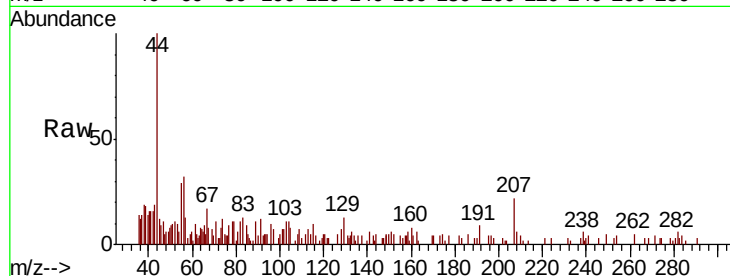
EFF-WW

Tot Ion: 56 Resp: 966

Ion Ratio Lower Upper

56 100

55 72.6 57.2 85.8



#14

Acrylonitrile

Concen: 0.475 ug/l

RT: 3.13 min Scan# 335

Delta R.T. 0.01 min

Lab File: VX017620.D

Acq: 27 Jul 2020 15:59

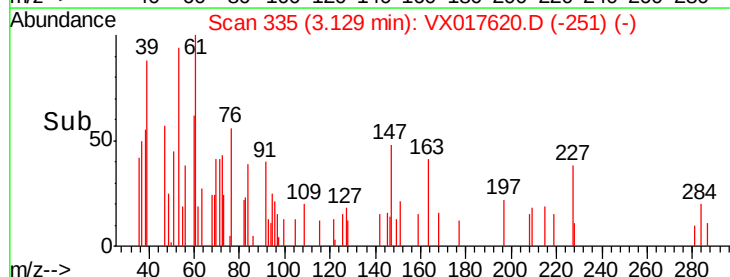
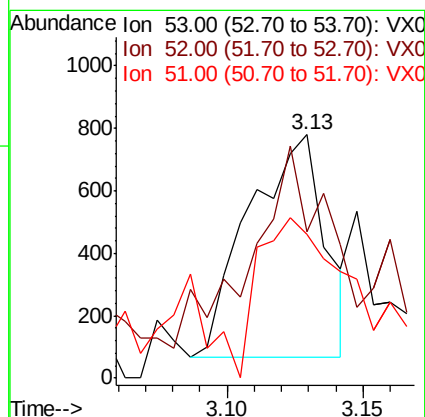
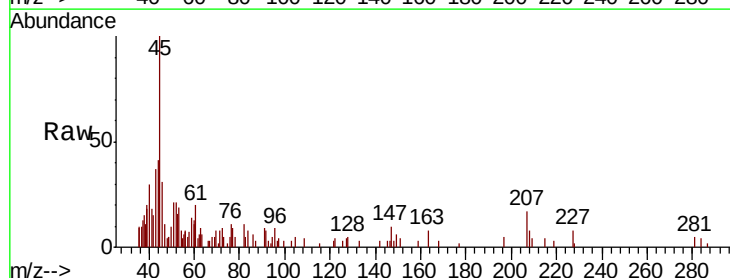
Tgt Ion: 53 Resp: 1380

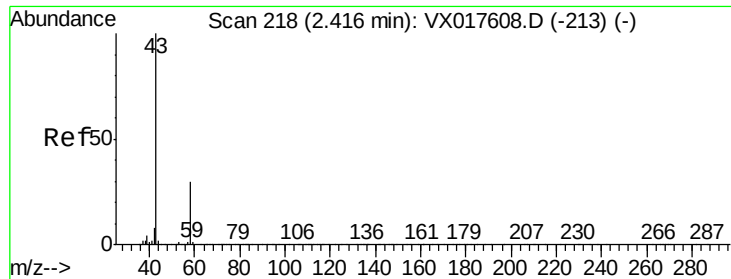
Ion Ratio Lower Upper

53 100

52 85.0 41.4 124.4

51 80.4 18.4 55.2#

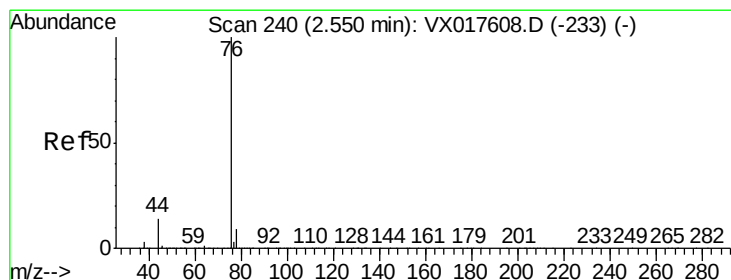
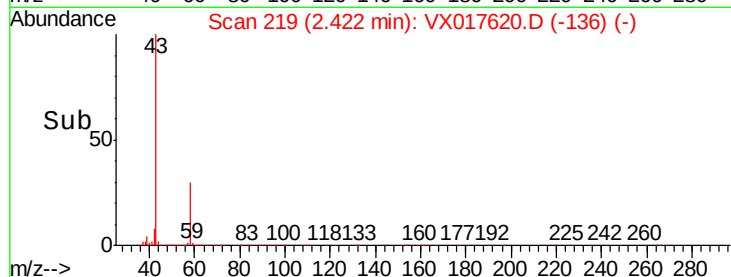
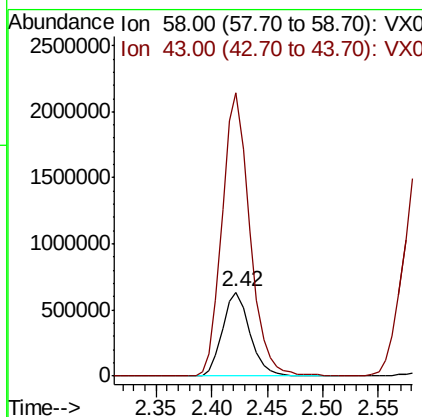
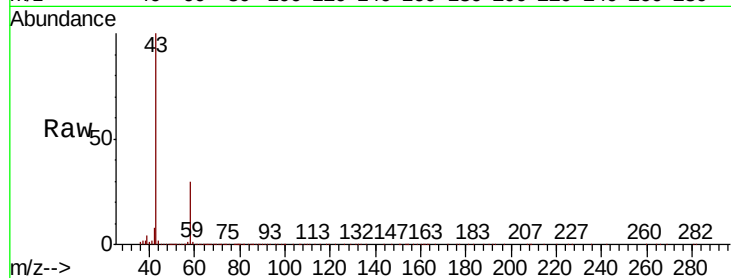




#15
Acetone
Concen: 1371.272 ug/l
RT: 2.42 min Scan# 219
Delta R.T. 0.01 min
Lab File: VX017620.D
Acq: 27 Jul 2020 15:59

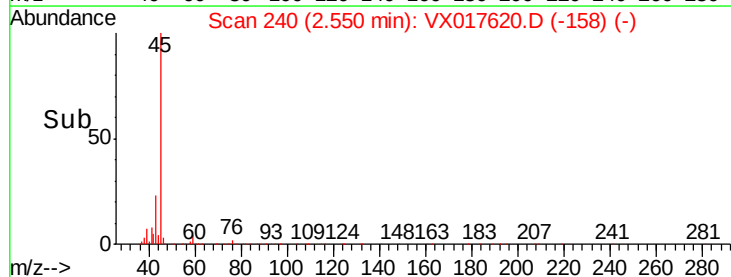
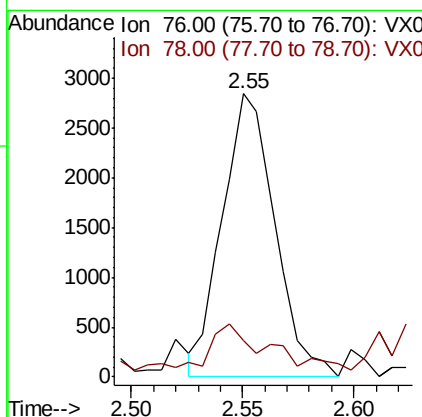
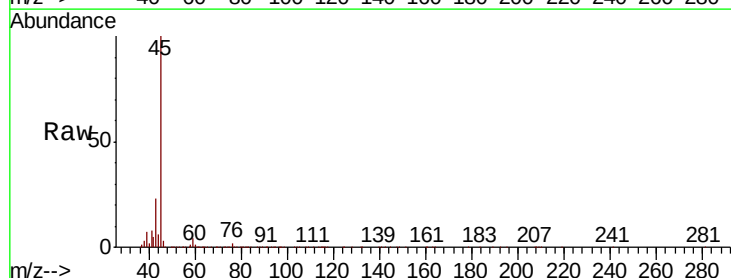
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

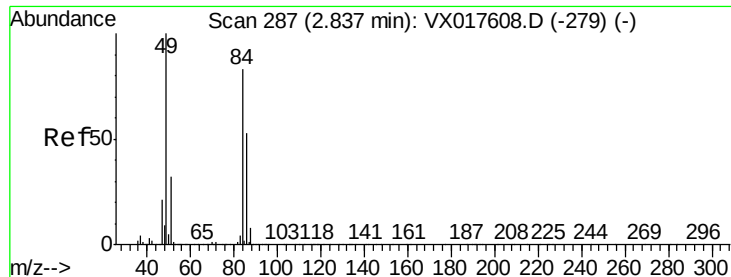
Tot Ion: 58 Resp: 1089102
Ion Ratio Lower Upper
58 100
43 336.0 268.6 402.8



#16
Carbon Disulfide
Concen: 0.385 ug/l
RT: 2.55 min Scan# 240
Delta R.T. -0.00 min
Lab File: VX017620.D
Acq: 27 Jul 2020 15:59

Tgt Ion: 76 Resp: 4673
Ion Ratio Lower Upper
76 100
78 8.2 7.5 11.3

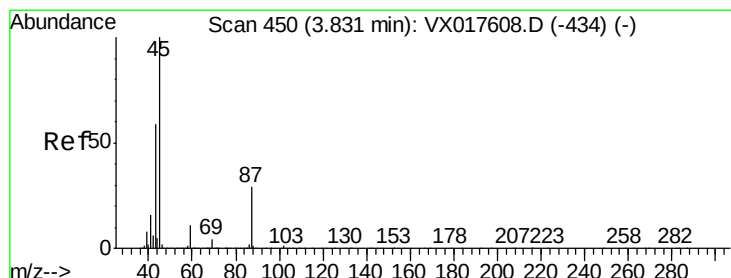
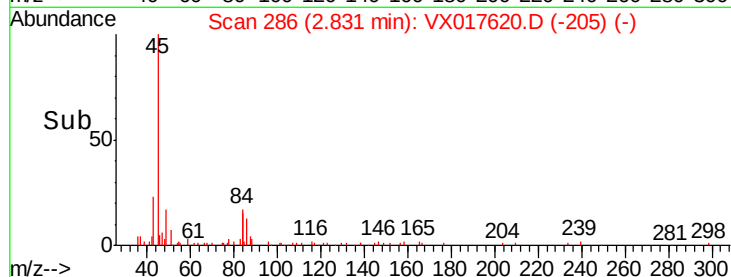
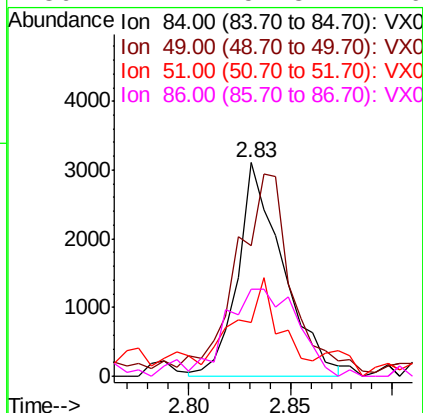
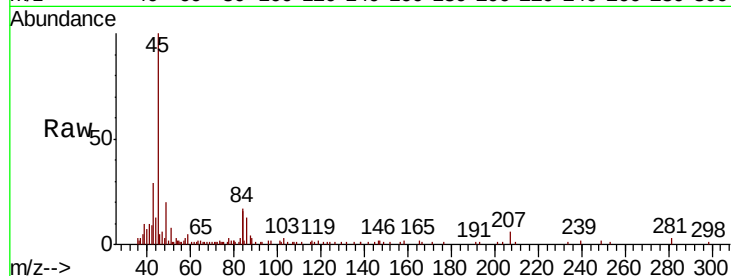




#18
Methylene Chloride
Concen: 0.892 ug/l
RT: 2.83 min Scan# 286
Delta R.T. -0.01 min
Lab File: VX017620.D
Acq: 27 Jul 2020 15:59

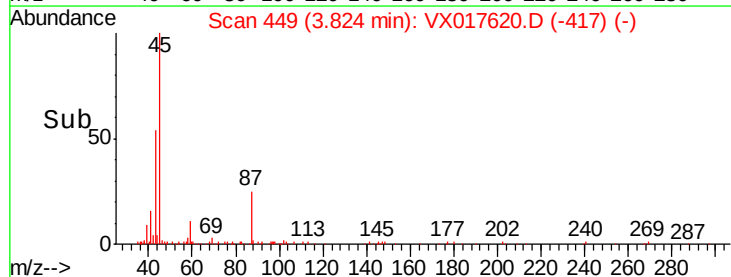
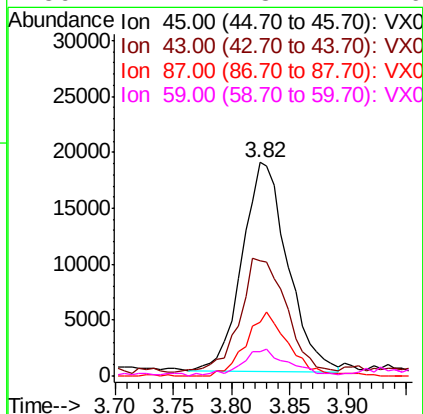
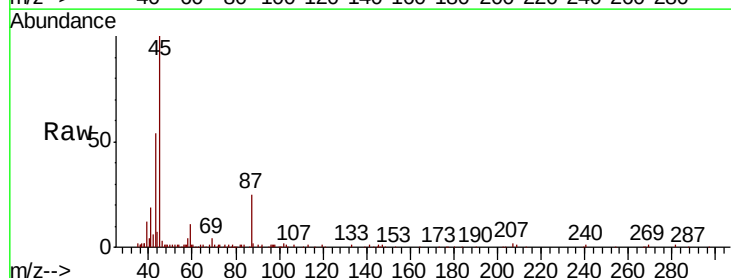
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

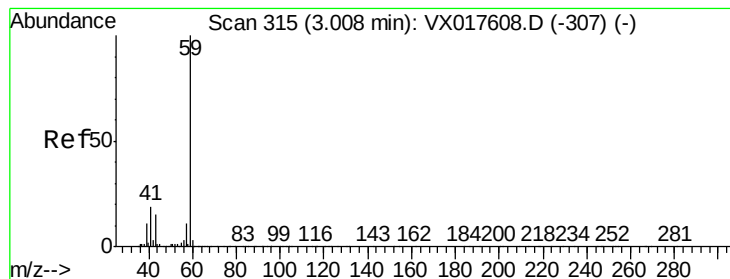
Tot Ion: 84 Resp: 4787
Ion Ratio Lower Upper
84 100
49 54.7 96.7 145.1#
51 16.0 31.0 46.4#
86 41.4 51.8 77.6#



#20
Diisopropyl ether
Concen: 2.931 ug/l
RT: 3.82 min Scan# 449
Delta R.T. -0.01 min
Lab File: VX017620.D
Acq: 27 Jul 2020 15:59

Tgt Ion: 45 Resp: 51027
Ion Ratio Lower Upper
45 100
43 52.6 47.4 71.0
87 25.8 23.3 34.9
59 11.7 8.4 12.6





#23

tert-Butyl Alcohol

Concen: 2388.925 ug/l

RT: 2.64 min Scan# 254

Delta R.T. -0.37 min

Lab File: VX017620.D

Acq: 27 Jul 2020 15:59

Instrument :

MSVOA_X

ClientSampleId :

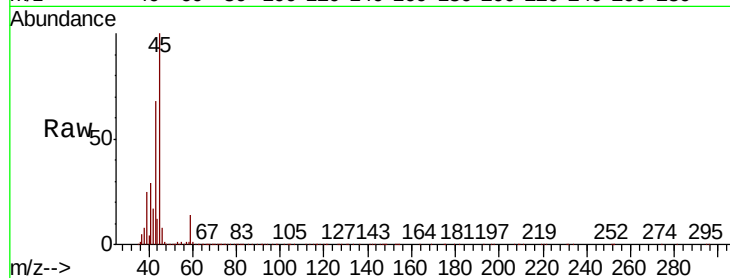
EFF-WW

Tot Ion: 59 Resp: 3255867

Ion Ratio Lower Upper

59 100

52 0.3 0.2 0.4



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

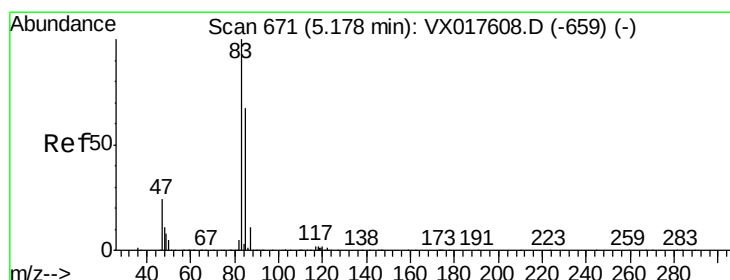
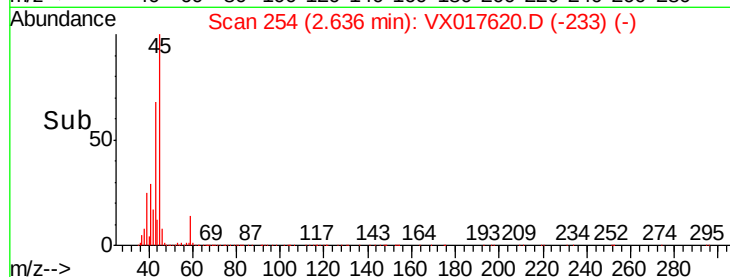
2.64

1000000

500000

0

Time-->



#25

Chloroform

Concen: 9.643 ug/l

RT: 5.18 min Scan# 672

Delta R.T. 0.01 min

Lab File: VX017620.D

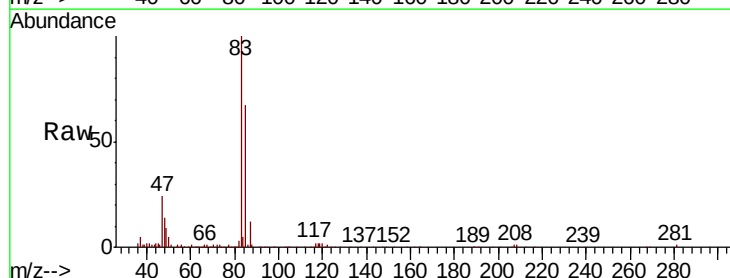
Acq: 27 Jul 2020 15:59

Tgt Ion: 83 Resp: 99795

Ion Ratio Lower Upper

83 100

85 67.3 53.7 80.5



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0

5.18

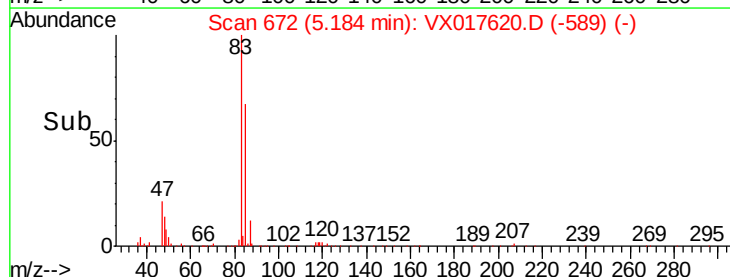
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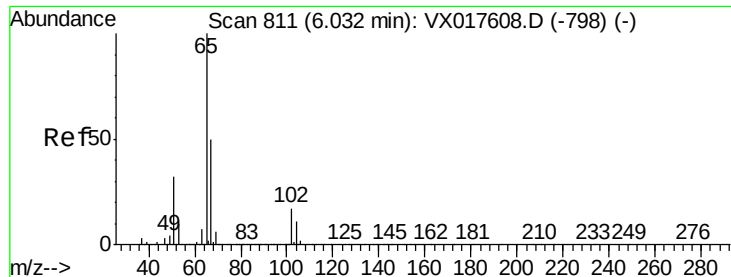
20000

10000

0

Time-->





#27

1,2-Dichloroethane-d4

Concen: 30.451 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX017620.D

Acq: 27 Jul 2020 15:59

Instrument :

MSVOA_X

ClientSampleId :

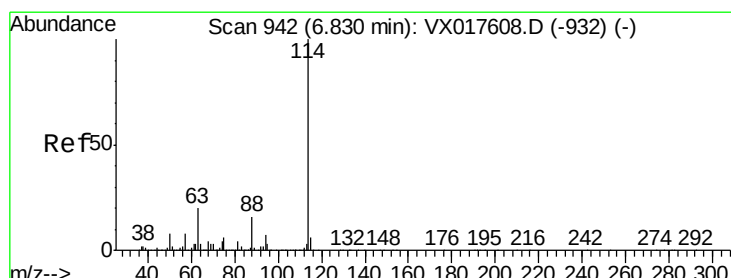
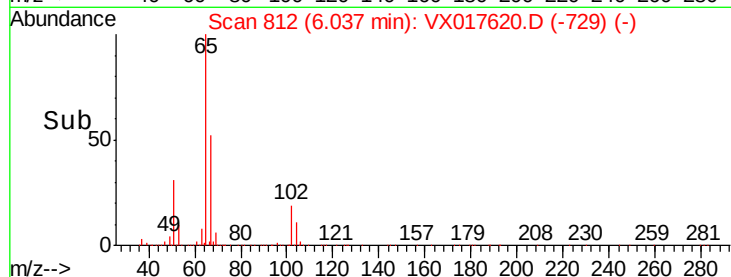
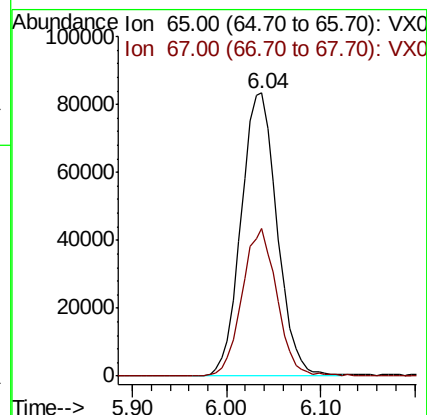
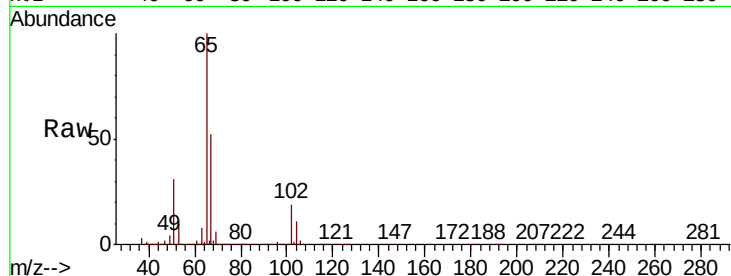
EFF-WW

Tot Ion: 65 Resp: 222439

Ion Ratio Lower Upper

65 100

67 50.1 40.6 61.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. 0.01 min

Lab File: VX017620.D

Acq: 27 Jul 2020 15:59

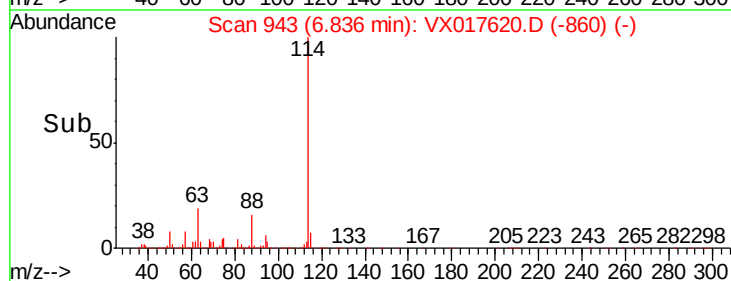
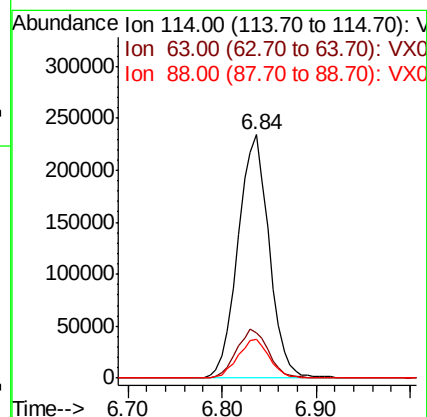
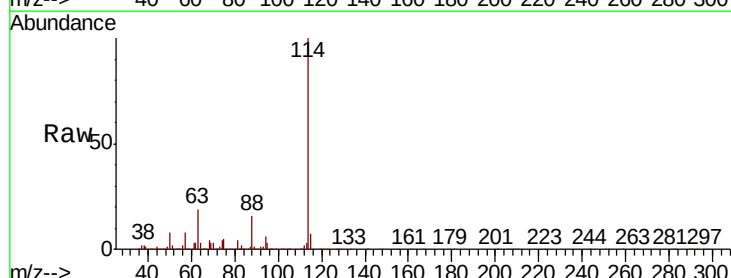
Tgt Ion: 114 Resp: 540998

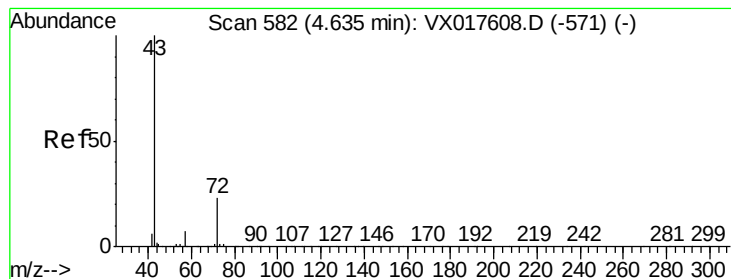
Ion Ratio Lower Upper

114 100

63 20.4 16.3 24.5

88 16.0 12.6 18.8





#30

2-Butanone

Concen: 11.201 ug/l

RT: 4.64 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX017620.D

Acq: 27 Jul 2020 15:59

Instrument :

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EFF-WW

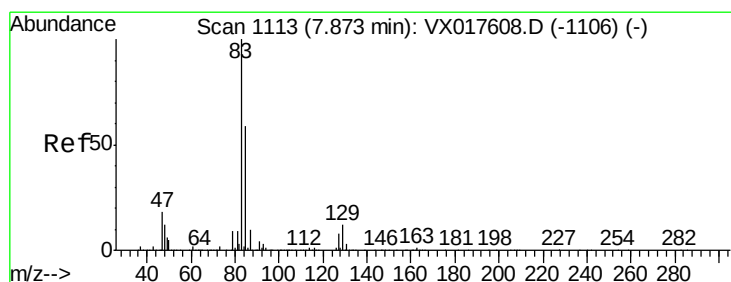
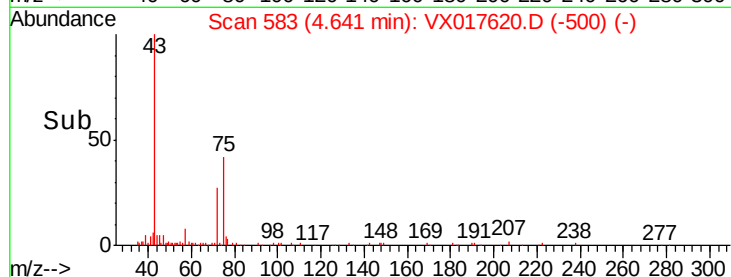
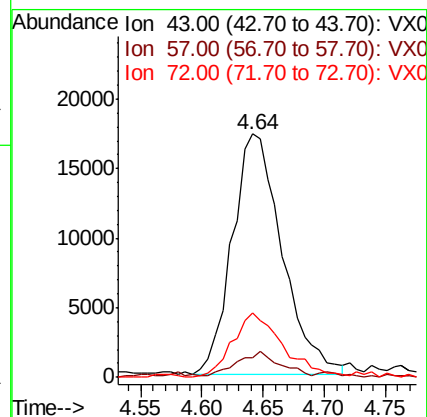
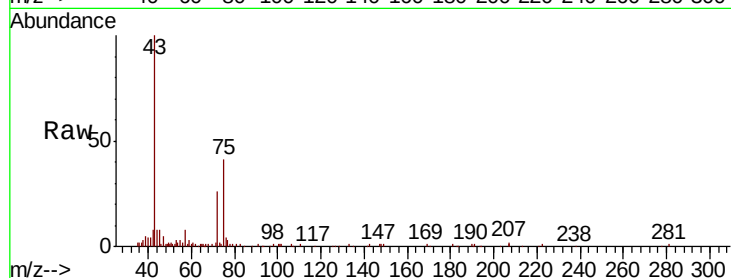
Tot Ion: 43 Resp: 48774

Ion Ratio Lower Upper

43 100

57 8.2 6.5 9.7

72 24.6 19.8 29.6



#41

Bromodichloromethane

Concen: 1.018 ug/l

RT: 7.88 min Scan# 1114

Delta R.T. 0.01 min

Lab File: VX017620.D

Acq: 27 Jul 2020 15:59

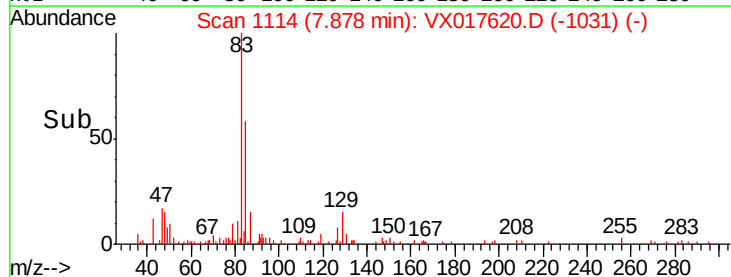
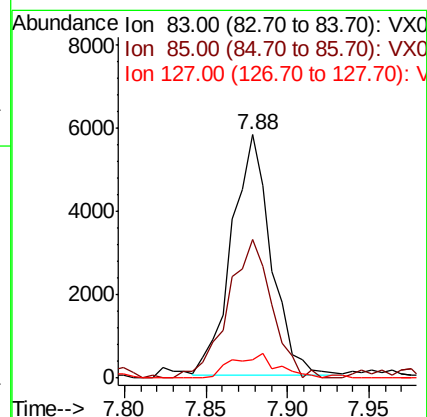
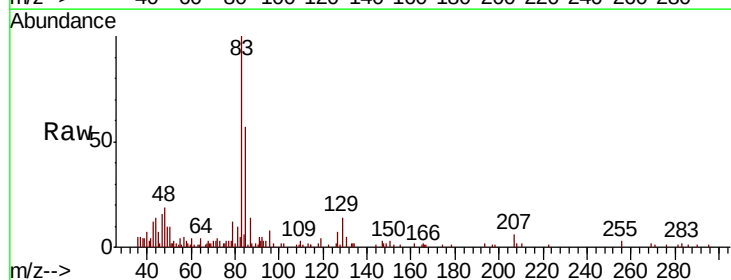
Tgt Ion: 83 Resp: 9714

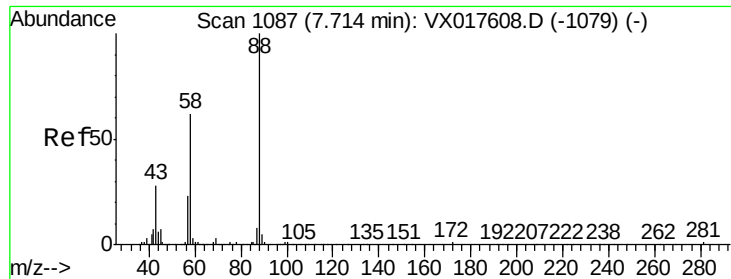
Ion Ratio Lower Upper

83 100

85 58.0 47.4 71.0

127 7.6 6.3 9.5





#45

1,4-Dioxane

Concen: 1.785 ug/l

RT: 7.72 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX017620.D

Acq: 27 Jul 2020 15:59

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

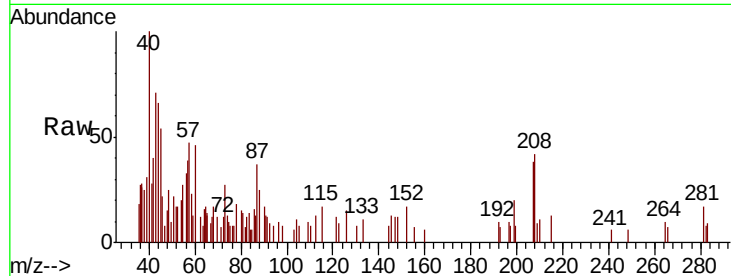
Tot Ion: 88 Resp: 258

Ion Ratio Lower Upper

88 100

43 0.0 29.0 43.6#

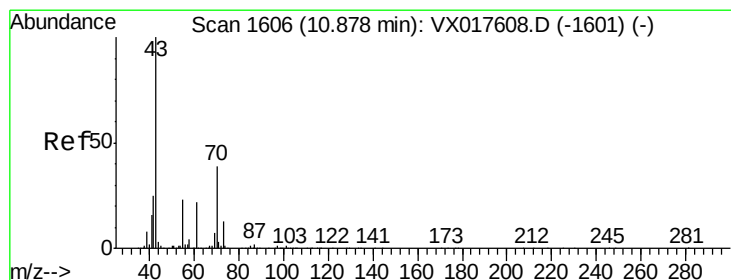
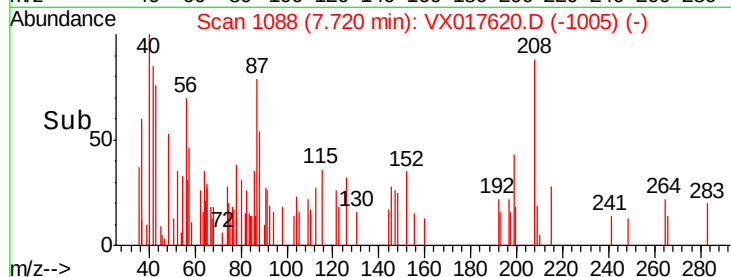
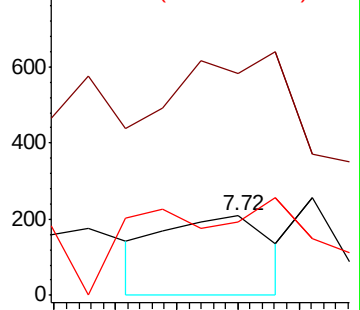
58 85.7 55.6 83.4#



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



#47

n-amyl Acetate

Concen: 0.217 ug/l

RT: 10.99 min Scan# 1625

Delta R.T. 0.12 min

Lab File: VX017620.D

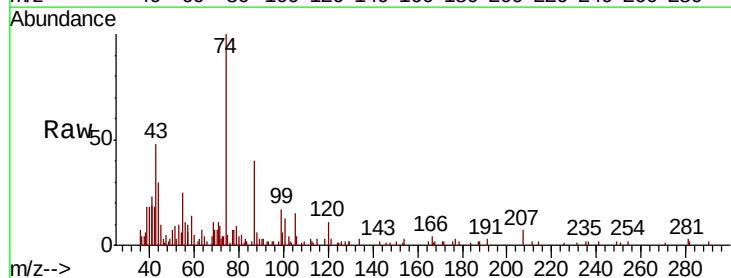
Acq: 27 Jul 2020 15:59

Tgt Ion: 43 Resp: 2635

Ion Ratio Lower Upper

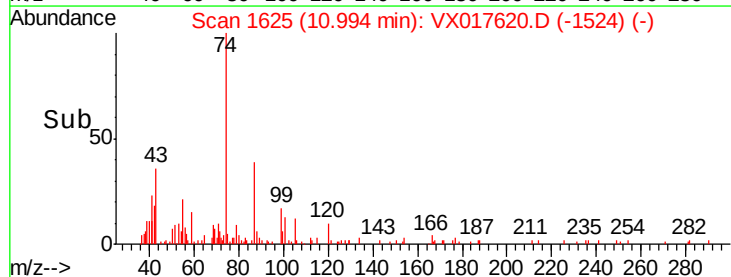
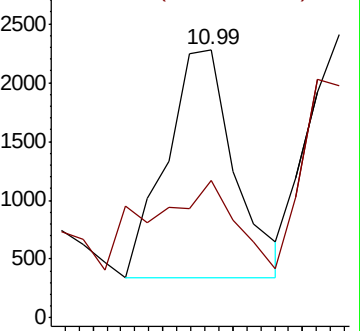
43 100

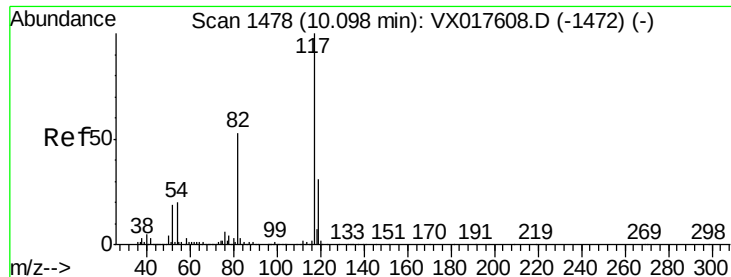
55 20.2 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

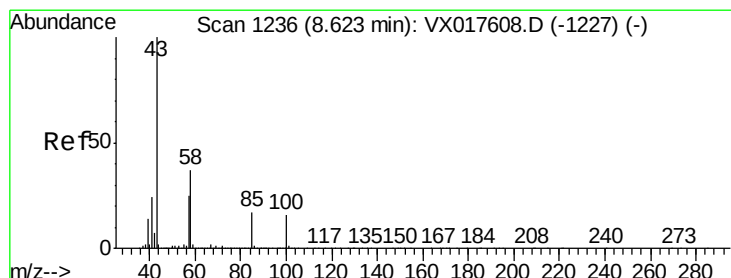
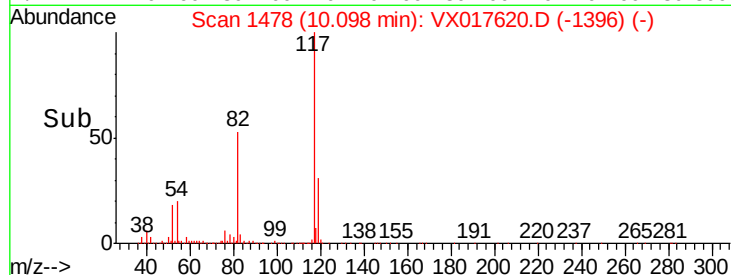
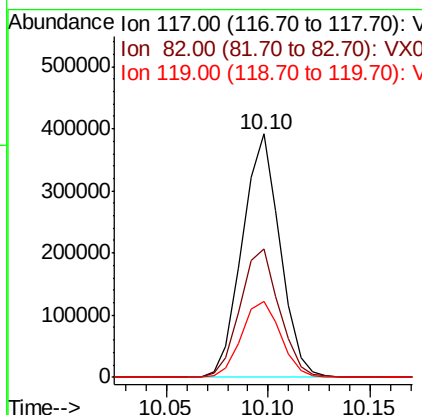
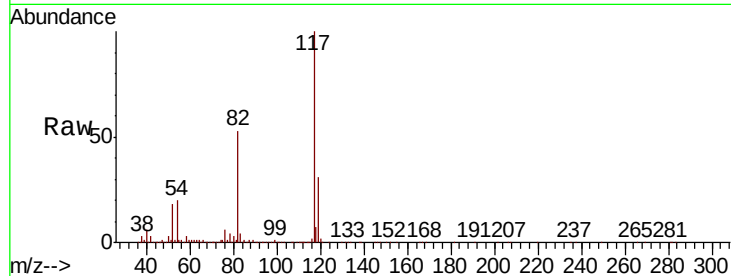




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017620.D
Acq: 27 Jul 2020 15:59

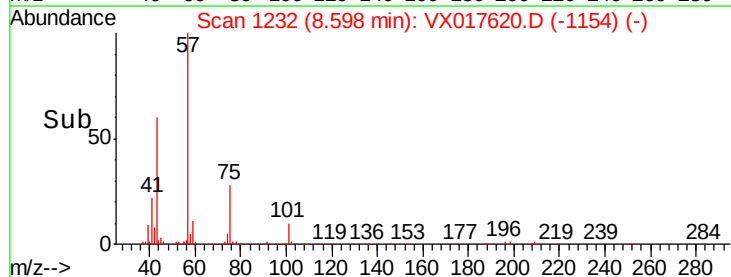
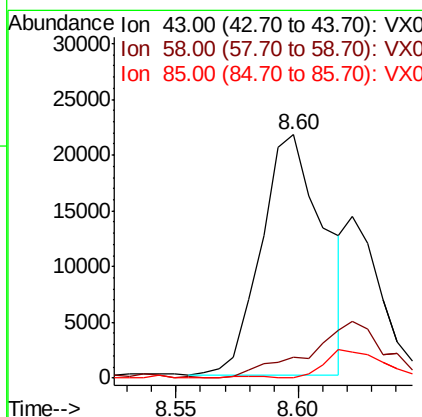
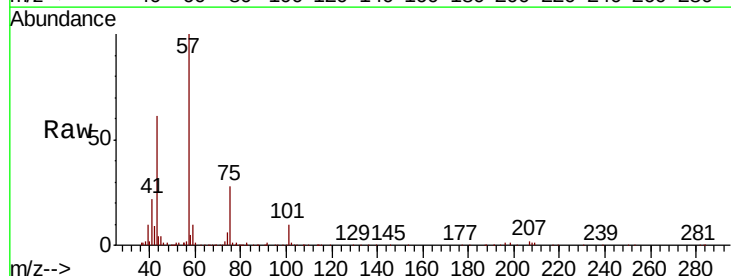
Instrument :
MSVOA_X
ClientSampled :
EFF-WW

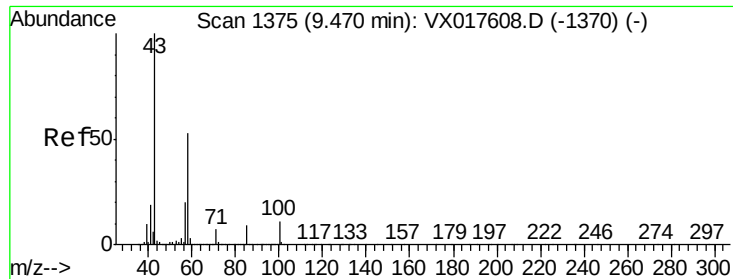
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.7	43.6	65.4
119	32.3	25.7	38.5



#58
4-Methyl-2-Pentanone
Concen: 4.283 ug/l
RT: 8.60 min Scan# 1232
Delta R.T. -0.02 min
Lab File: VX017620.D
Acq: 27 Jul 2020 15:59

Tgt Ion	Ratio	Lower	Upper
43	100		
58	28.8	30.5	45.7#
85	11.1	14.2	21.2#

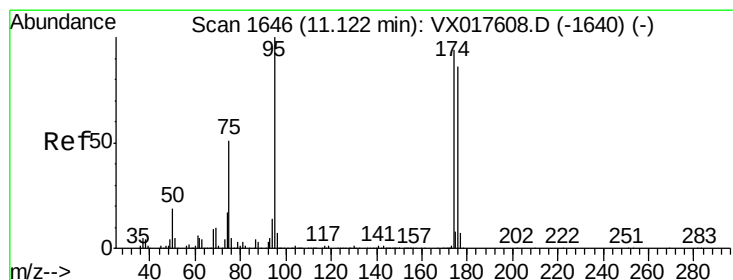
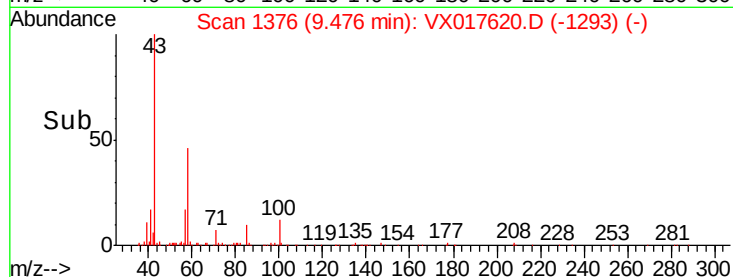
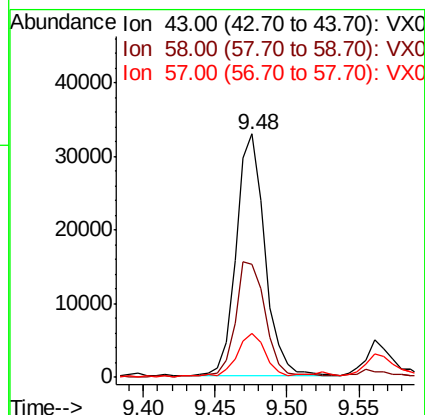
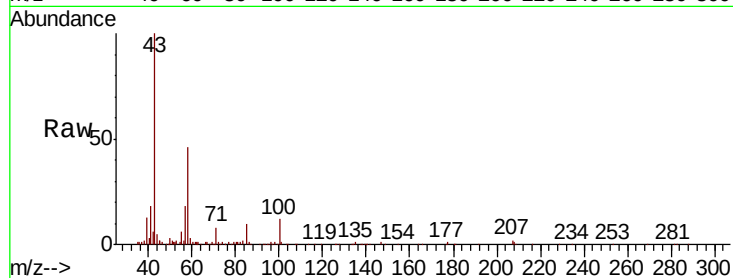




#59
2-Hexanone
Concen: 7.256 ug/l
RT: 9.48 min Scan# 1376
Delta R.T. 0.01 min
Lab File: VX017620.D
Acq: 27 Jul 2020 15:59

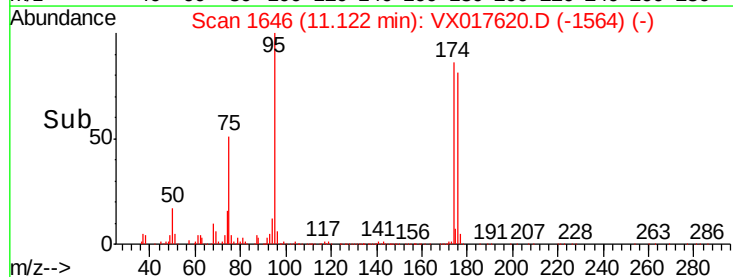
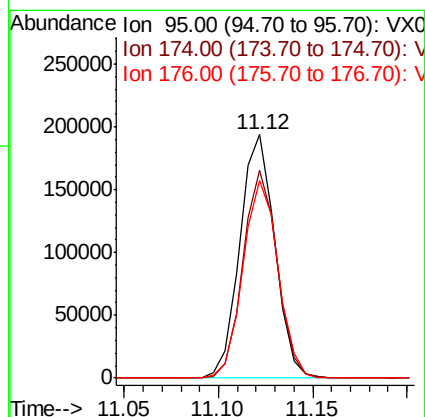
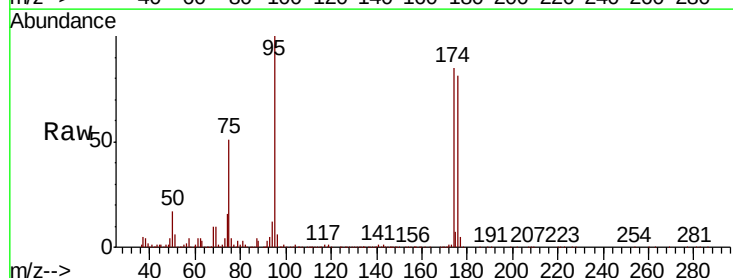
Instrument :
MSVOA_X
ClientSampleId :
EFF-WW

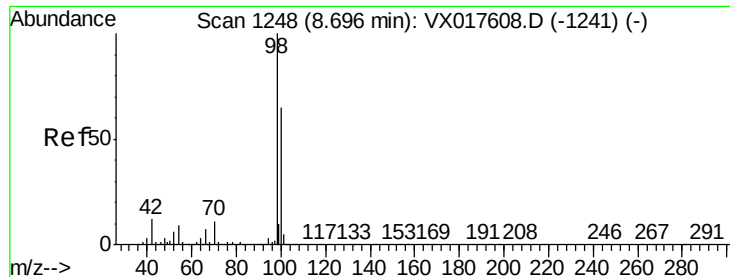
Tot Ion: 43 Resp: 45901
Ion Ratio Lower Upper
43 100
58 49.8 42.9 64.3
57 17.5 16.1 24.1



#60
4-Bromofluorobenzene
Concen: 29.237 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX017620.D
Acq: 27 Jul 2020 15:59

Tgt Ion: 95 Resp: 249361
Ion Ratio Lower Upper
95 100
174 83.6 70.2 105.2
176 81.7 65.6 98.4





#63

Toluene-d8

Concen: 28.312 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017620.D

Acq: 27 Jul 2020 15:59

Instrument :

MSVOA_X

ClientSampleId :

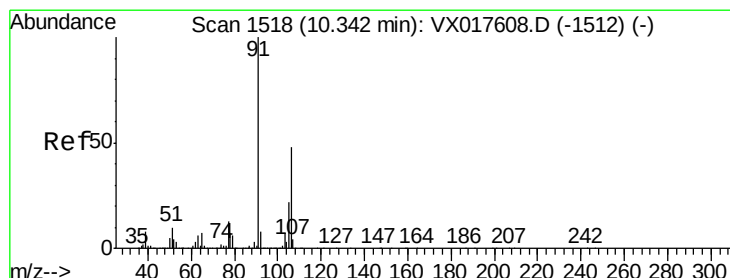
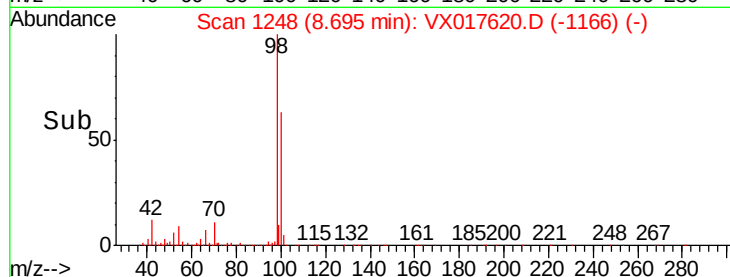
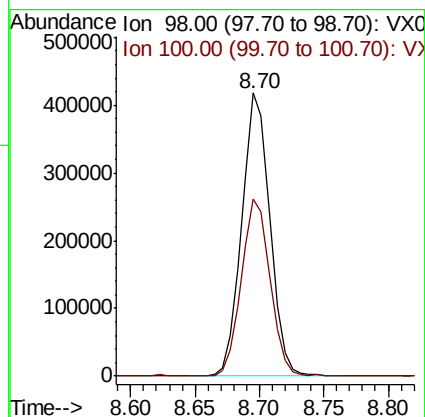
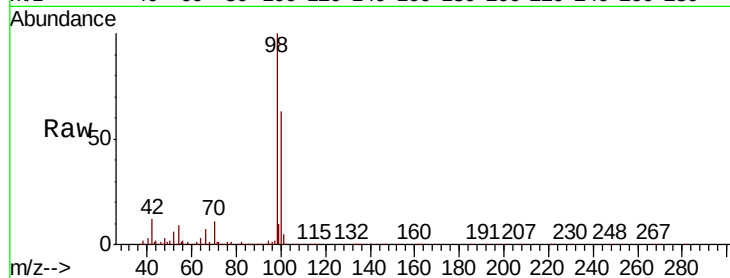
EFF-WW

Tot Ion: 98 Resp: 630965

Ion Ratio Lower Upper

98 100

100 63.7 51.9 77.9



#67

m/p-Xylenes

Concen: 0.227 ug/l

RT: 10.34 min Scan# 1518

Delta R.T. -0.00 min

Lab File: VX017620.D

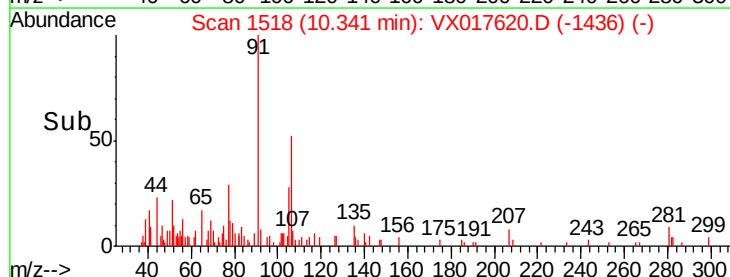
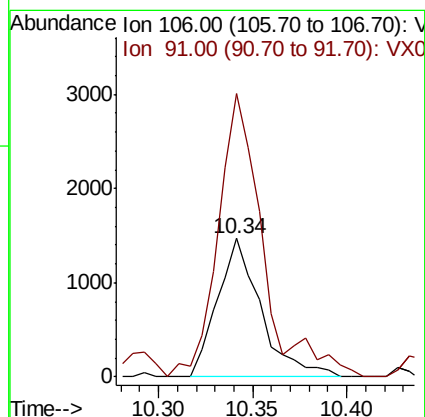
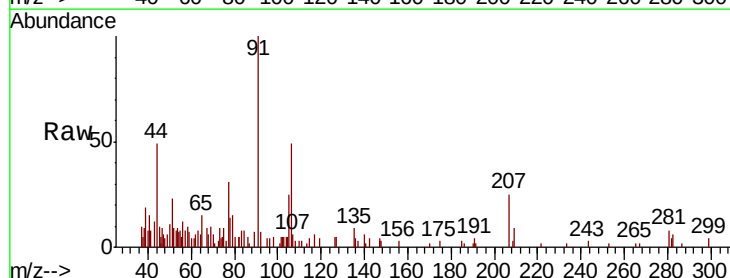
Acq: 27 Jul 2020 15:59

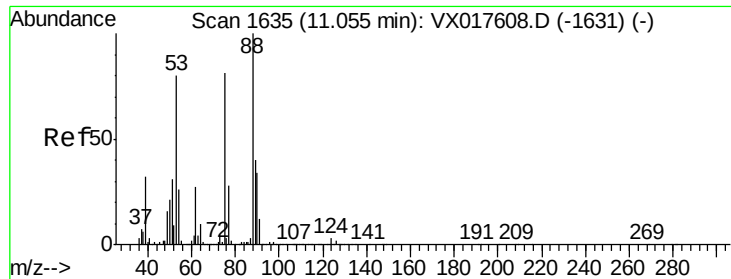
Tgt Ion: 106 Resp: 2349

Ion Ratio Lower Upper

106 100

91 189.2 166.6 249.8

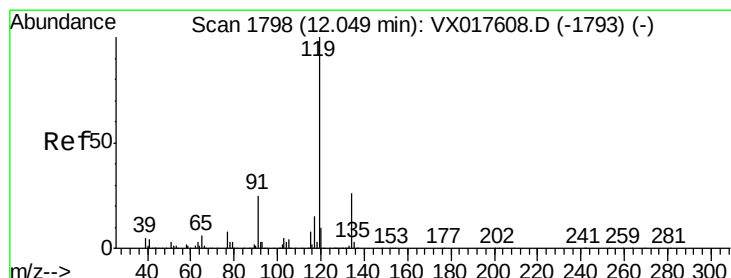
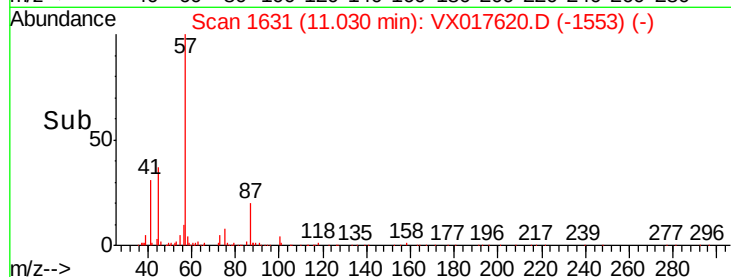
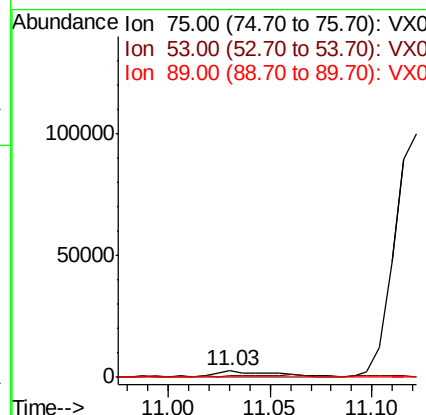
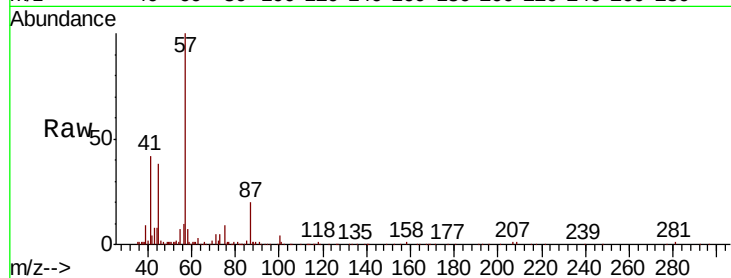




#77
 t-1,4-Dichloro-2-butene
 Concen: 1.380 ug/l
 RT: 11.03 min Scan# 1631
 Delta R.T. -0.02 min
 Lab File: VX017620.D
 Acq: 27 Jul 2020 15:59

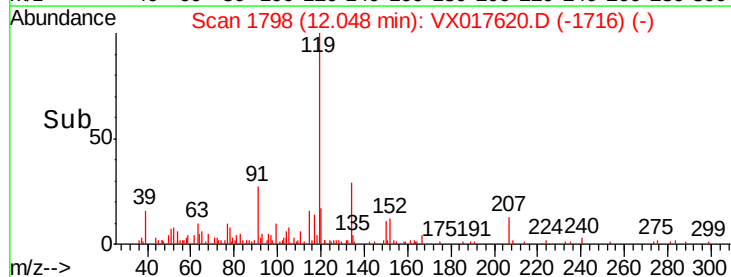
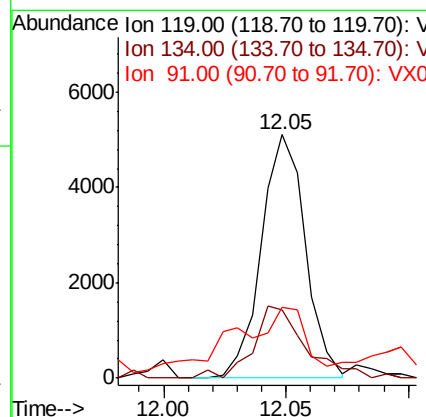
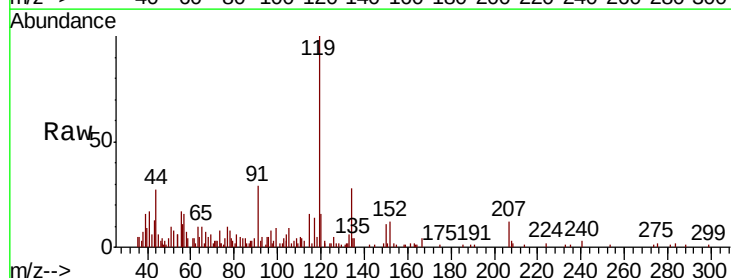
Instrument :
 MSVOA_X
 ClientSampled :
 EFF-WW

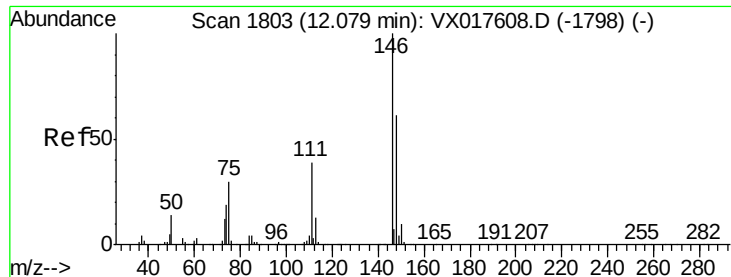
Tot Ion: 75 Resp: 4714
 Ion Ratio Lower Upper
 75 100
 53 11.8 49.0 147.0#
 89 12.7 24.4 73.2#



#82
 p-Isopropyltoluene
 Concen: 0.239 ug/l
 RT: 12.05 min Scan# 1798
 Delta R.T. -0.00 min
 Lab File: VX017620.D
 Acq: 27 Jul 2020 15:59

Tgt Ion: 119 Resp: 6438
 Ion Ratio Lower Upper
 119 100
 134 33.7 0.0 52.6
 91 19.2 0.0 48.2

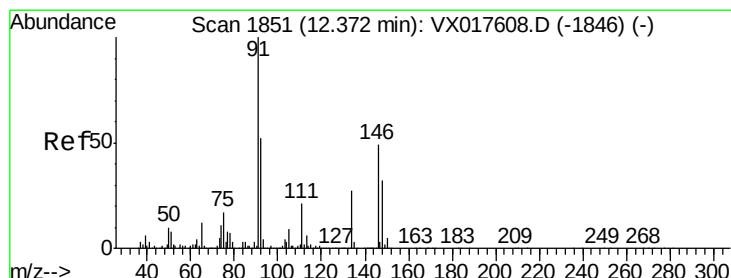
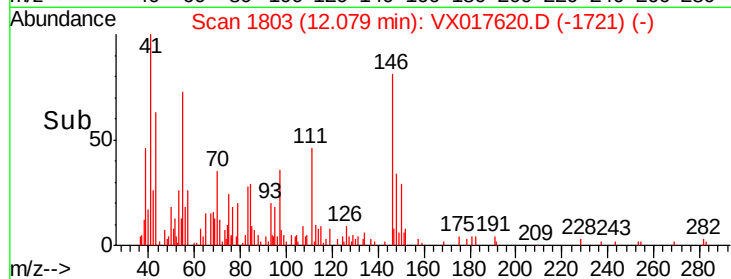
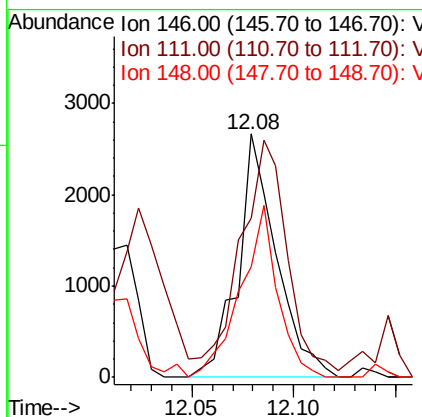
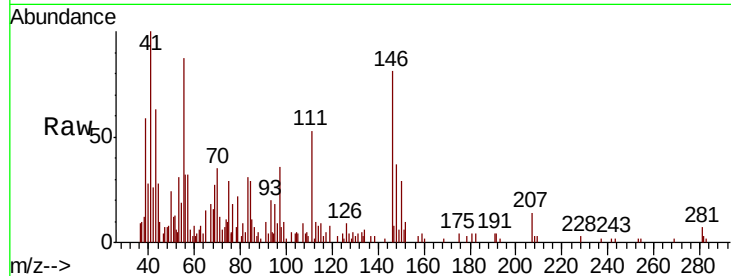




#84
 1,4-Dichlorobenzene
 Concen: 0.247 ug/l
 RT: 12.08 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VX017620.D
 Acq: 27 Jul 2020 15:59

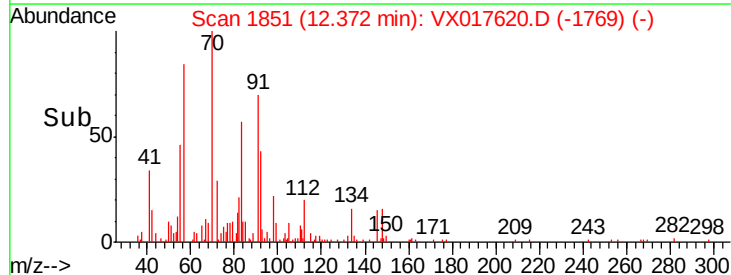
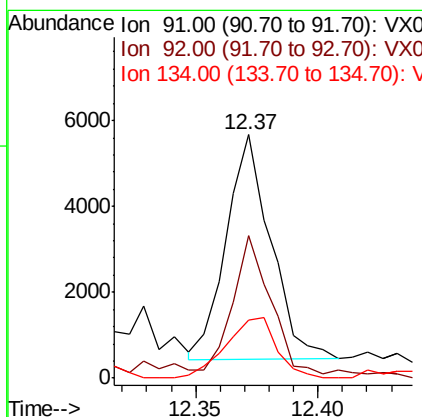
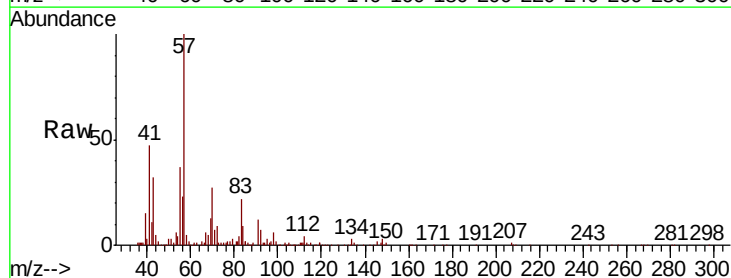
Instrument :
 MSVOA_X
 ClientSampled :
 EFF-WW

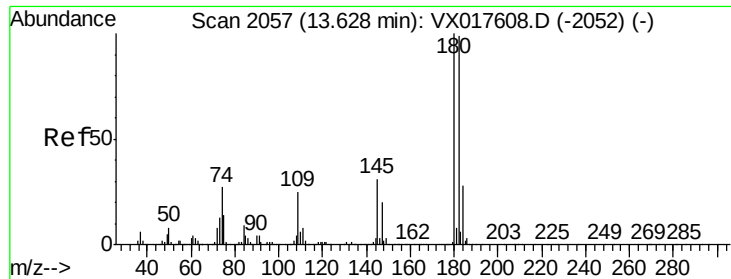
Tot Ion:146 Resp: 3489
 Ion Ratio Lower Upper
 146 100
 111 120.9 18.7 56.1#
 148 68.4 31.6 94.8



#85
 n-Butylbenzene
 Concen: 0.257 ug/l
 RT: 12.37 min Scan# 1851
 Delta R.T. -0.00 min
 Lab File: VX017620.D
 Acq: 27 Jul 2020 15:59

Tgt Ion: 91 Resp: 6613
 Ion Ratio Lower Upper
 91 100
 92 55.3 0.0 104.0
 134 30.7 0.0 55.0

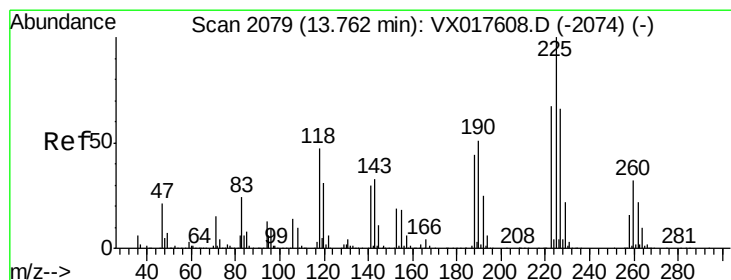
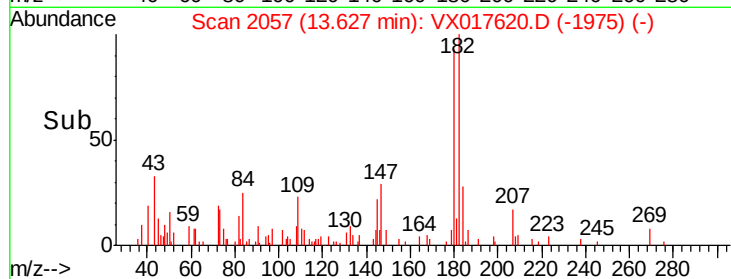
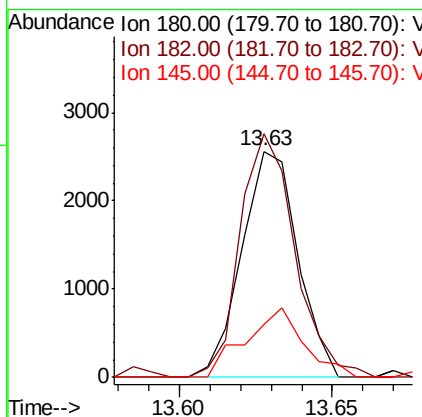
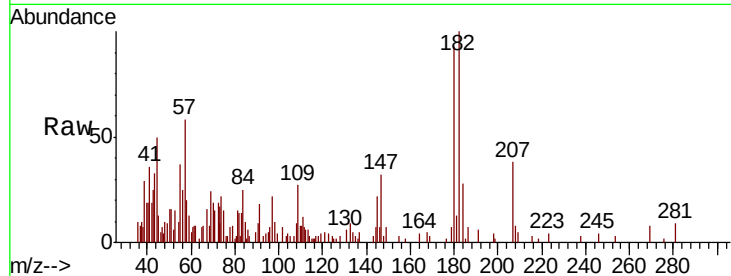




#89
 1,2,4-Trichlorobenzene
 Concen: 0.312 ug/l
 RT: 13.63 min Scan# 2057
 Delta R.T. -0.00 min
 Lab File: VX017620.D
 Acq: 27 Jul 2020 15:59

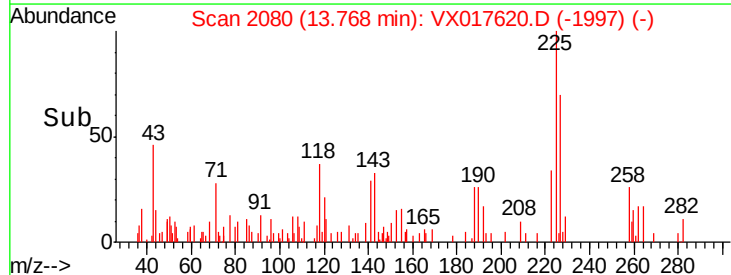
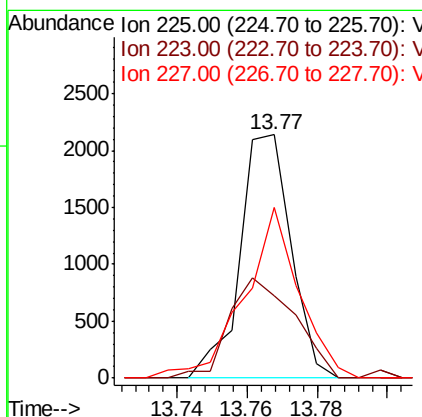
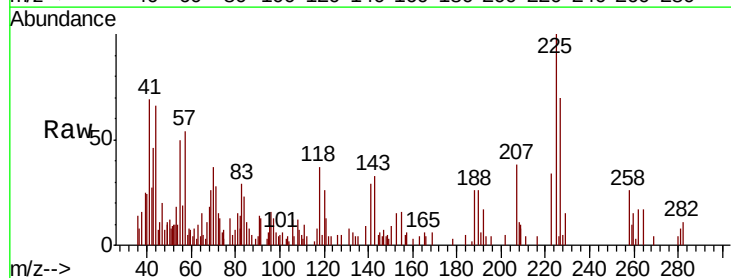
Instrument :
 MSVOA_X
 ClientSampleId :
 EFF-WW

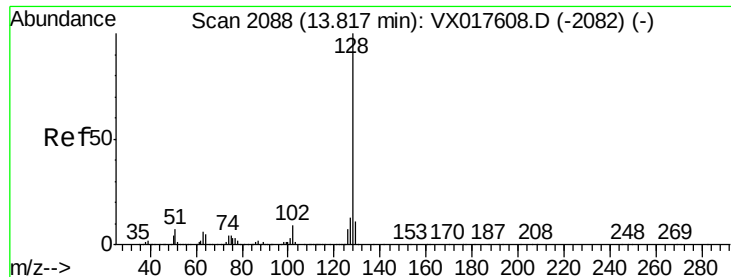
Tot Ion	Ratio	Lower	Upper
180	100		
182	105.4	77.4	116.0
145	32.1	24.9	37.3



#90
 Hexachlorobutadiene
 Concen: 0.457 ug/l
 RT: 13.77 min Scan# 2080
 Delta R.T. 0.01 min
 Lab File: VX017620.D
 Acq: 27 Jul 2020 15:59

Tgt Ion	Ratio	Lower	Upper
225	100		
223	52.1	0.0	130.8
227	72.6	0.0	127.2





#91

Naphthalene

Concen: 0.318 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX017620.D

Acq: 27 Jul 2020 15:59

Instrument :

MSVOA_X

ClientSampleId :

EFF-WW

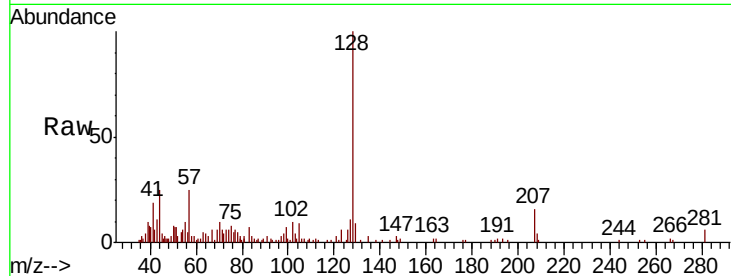
Tot Ion:128 Resp: 9826

Ion Ratio Lower Upper

128 100

127 15.4 10.2 15.2#

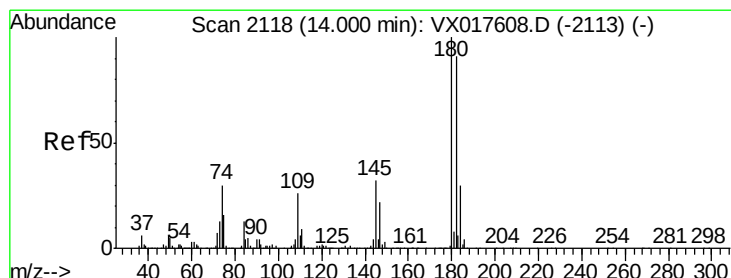
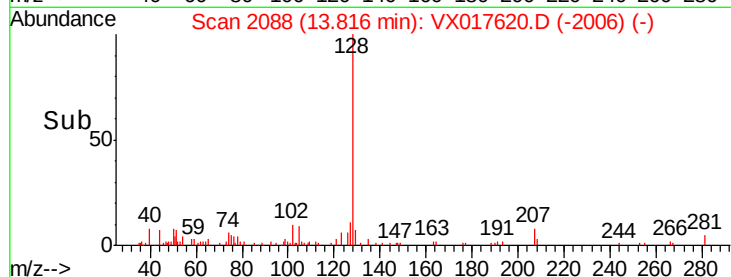
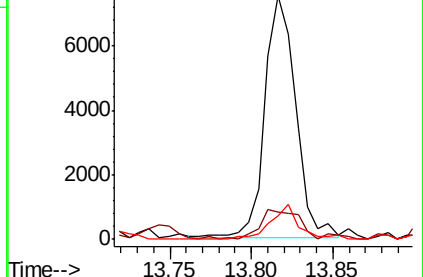
129 12.6 8.7 13.1



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: 0.277 ug/l

RT: 14.00 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VX017620.D

Acq: 27 Jul 2020 15:59

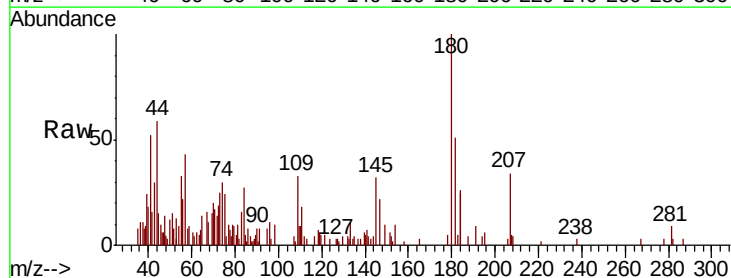
Tgt Ion:180 Resp: 2763

Ion Ratio Lower Upper

180 100

182 90.6 0.0 190.2

145 45.5 0.0 63.8



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

