

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX020320\
 Data File : VX014795.D
 Acq On : 03 Feb 2020 14:40
 Operator : JC/SP
 Sample : L1294-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-1-4-COMP

Quant Time: Feb 03 18:16:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X011520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 15 12:41:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	68920	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	367649	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	327400	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	153731	31.73	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.77%
60) 4-Bromofluorobenzene	11.13	95	145905	27.85	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	92.83%
63) Toluene-d8	8.71	98	438499	29.65	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.83%

Target Compounds

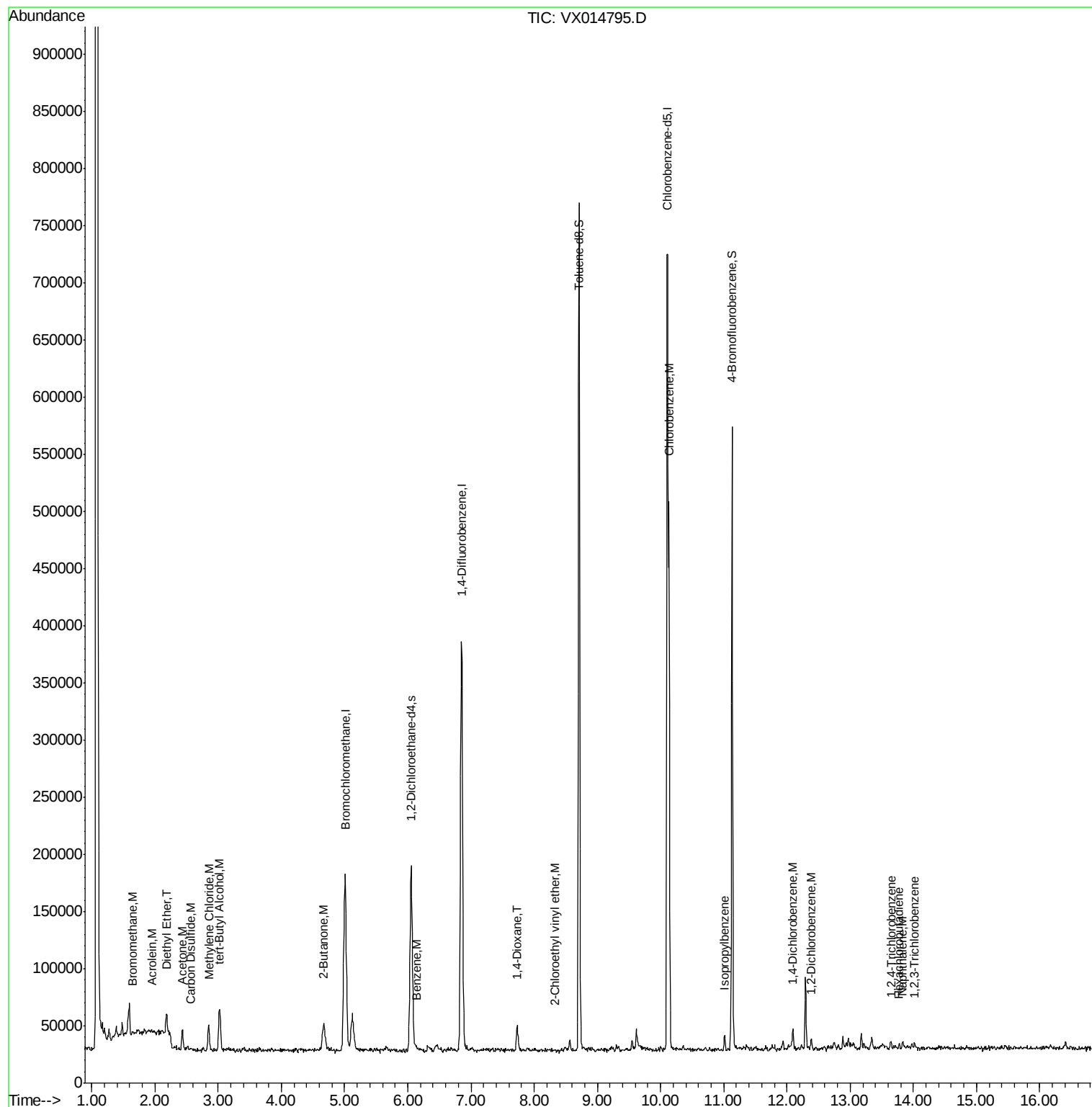
						Qvalue
5) Bromomethane	1.65	94	1564	0.43	ug/l	97
8) Diethyl Ether	2.18	74	5623	1.99	ug/l	91
13) Acrolein	1.95	56	328	0.45	ug/l	92
15) Acetone	2.43	58	5365	6.79	ug/l	78
16) Carbon Disulfide	2.56	76	2745	0.26	ug/l #	85
18) Methylene Chloride	2.85	84	11485	2.57	ug/l	95
23) tert-Butyl Alcohol	3.02	59	44559	45.69	ug/l #	100
30) 2-Butanone	4.67	43	1559	0.46	ug/l #	59
34) Benzene	6.13	78	3550	0.21	ug/l #	68
45) 1,4-Dioxane	7.73	88	15037	150.71	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	825	0.27	ug/l #	76
64) Chlorobenzene	10.14	112	211131	19.47	ug/l	97
70) Isopropylbenzene	11.01	105	7492	0.41	ug/l	90
84) 1,4-Dichlorobenzene	12.09	146	6920	0.82	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	1972	0.23	ug/l	83
89) 1,2,4-Trichlorobenzene	13.64	180	1320	0.23	ug/l #	86
90) Hexachlorobutadiene	13.77	225	574	0.20	ug/l	90
91) Naphthalene	13.83	128	4402	0.26	ug/l #	86
92) 1,2,3-Trichlorobenzene	14.02	180	1409	0.24	ug/l	84

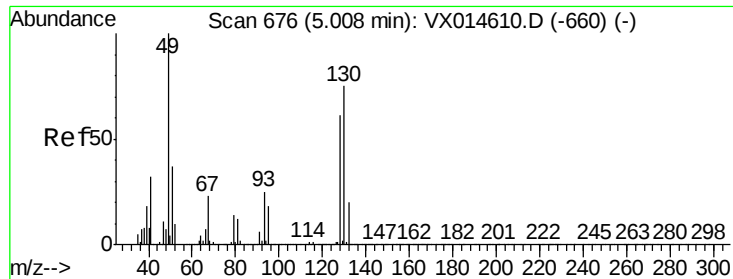
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_X\DATA\VX020320\
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Quant Time: Feb 03 18:16:44 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\624X011520W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jan 15 12:41:12 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014795.D

Acq: 03 Feb 2020 14:40

Instrument :

MSVOA_X

ClientSampleId :

M1-1-4-COMP

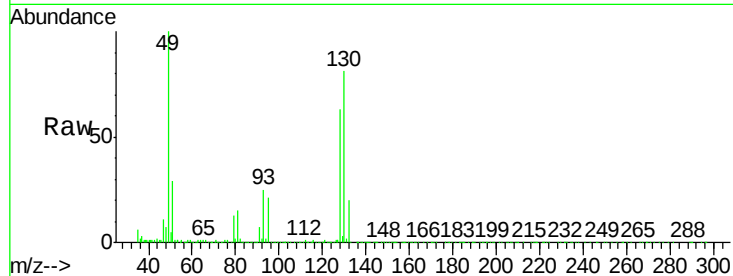
Tgt Ion:128 Resp: 68920

Ion Ratio Lower Upper

128 100

49 158.8 0.0 405.0

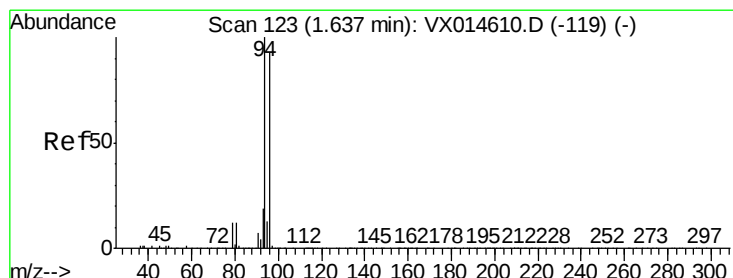
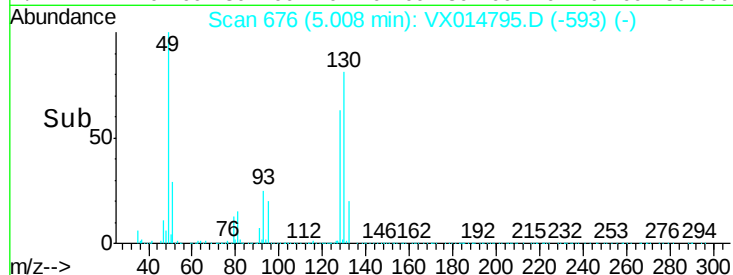
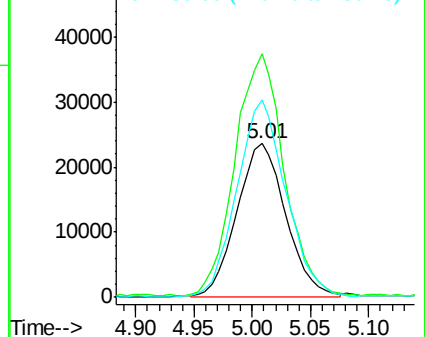
130 129.0 0.0 321.5



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: 0.43 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX014795.D

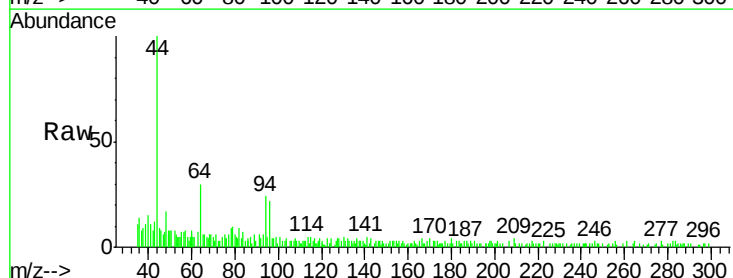
Acq: 03 Feb 2020 14:40

Tgt Ion: 94 Resp: 1564

Ion Ratio Lower Upper

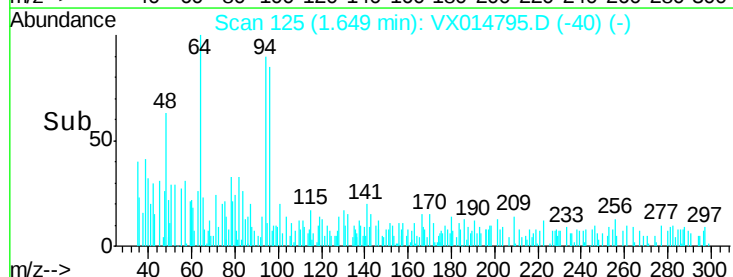
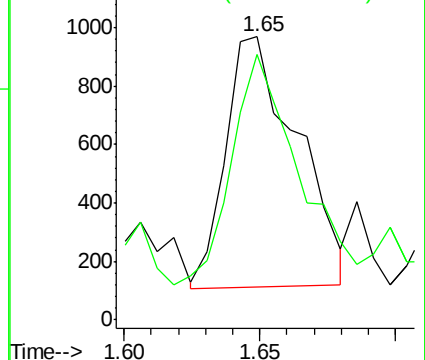
94 100

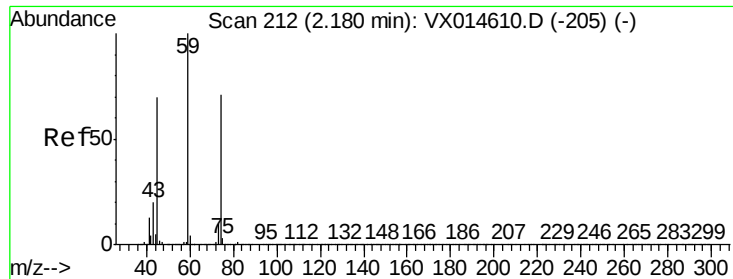
96 90.0 74.4 111.6



Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0

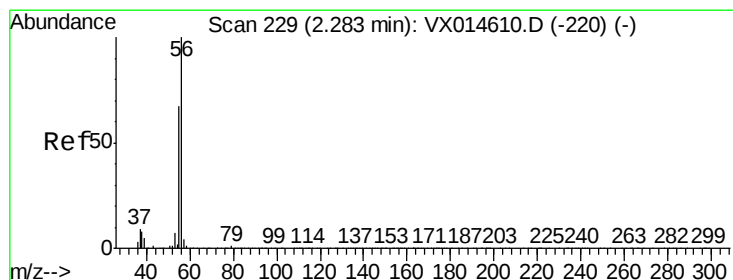
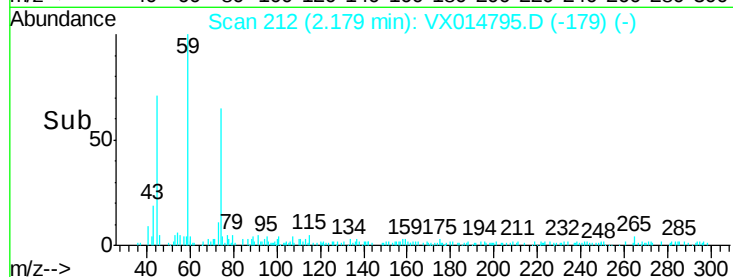
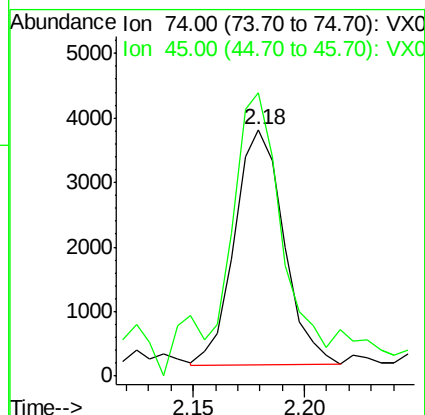
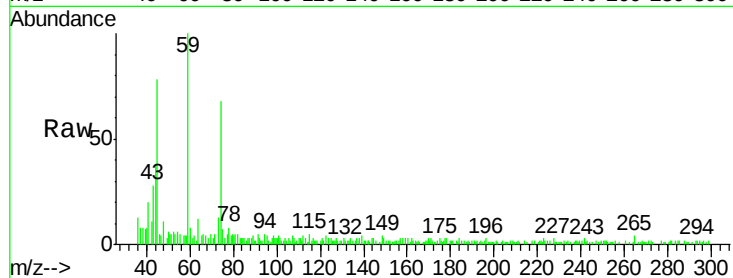




#8
Diethyl Ether
Concen: 1.99 ug/l
RT: 2.18 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX014795.D
Acq: 03 Feb 2020 14:40

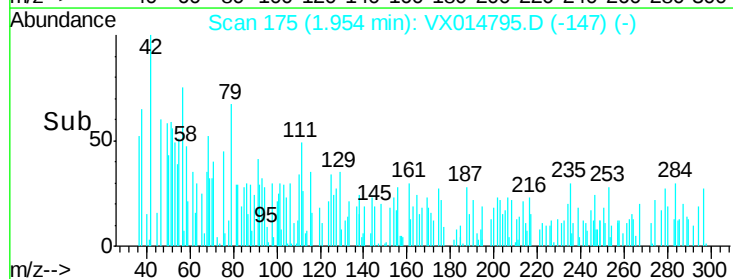
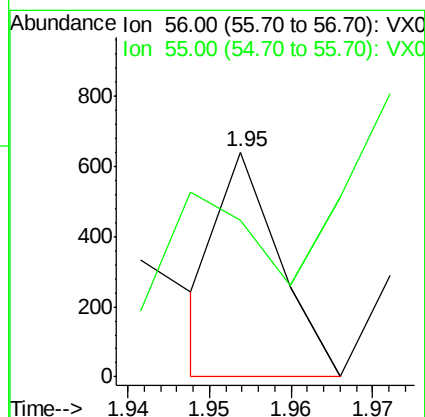
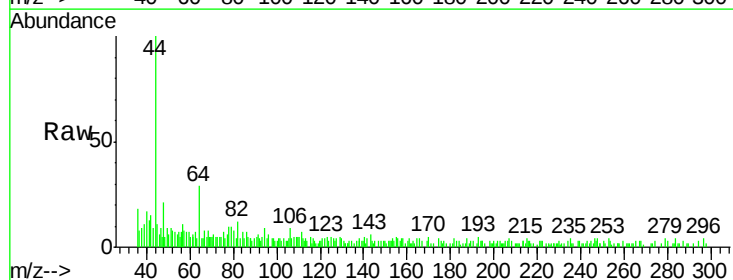
Instrument :
MSVOA_X
ClientSampleId :
M1-1-4-COMP

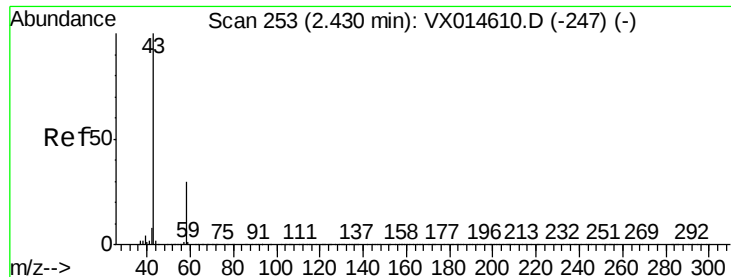
Tgt Ion: 74 Resp: 5623
Ion Ratio Lower Upper
74 100
45 112.4 20.6 185.0



#13
Acrolein
Concen: 0.45 ug/l
RT: 1.95 min Scan# 175
Delta R.T. -0.33 min
Lab File: VX014795.D
Acq: 03 Feb 2020 14:40

Tgt Ion: 56 Resp: 328
Ion Ratio Lower Upper
56 100
55 74.7 54.9 82.3





#15

Acetone

Concen: 6.79 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014795.D

Acq: 03 Feb 2020 14:40

Instrument :

MSVOA_X

ClientSampleId :

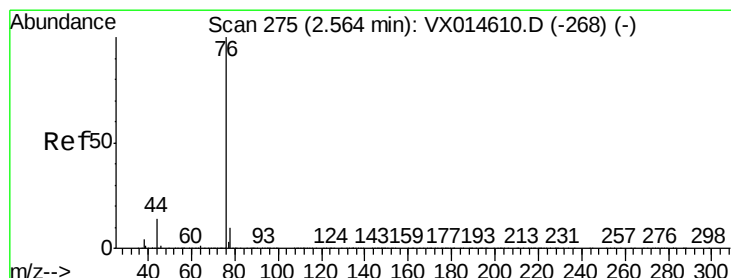
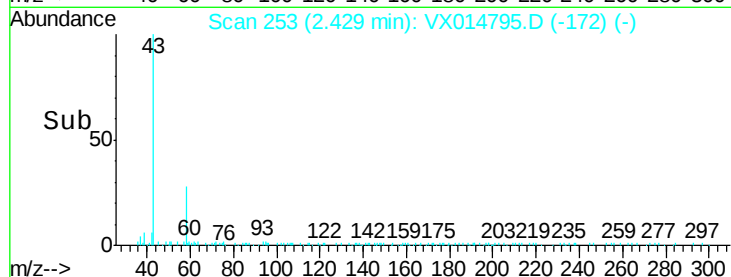
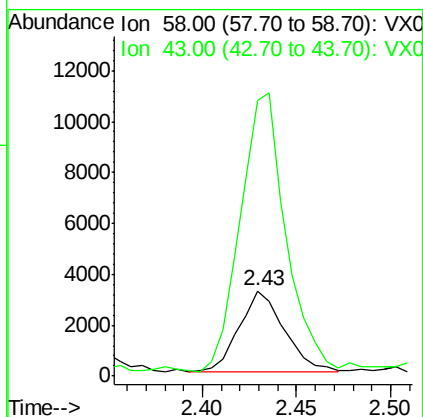
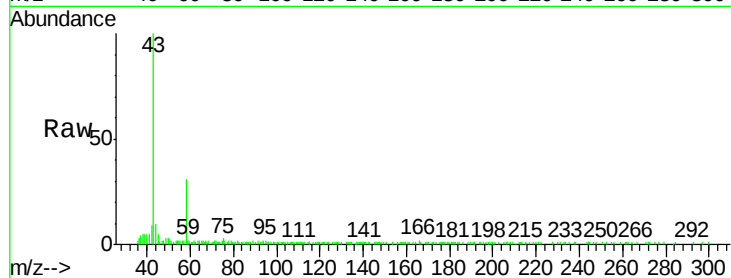
M1-1-4-COMP

Tgt Ion: 58 Resp: 5365

Ion Ratio Lower Upper

58 100

43 338.9 236.3 354.5



#16

Carbon Disulfide

Concen: 0.26 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014795.D

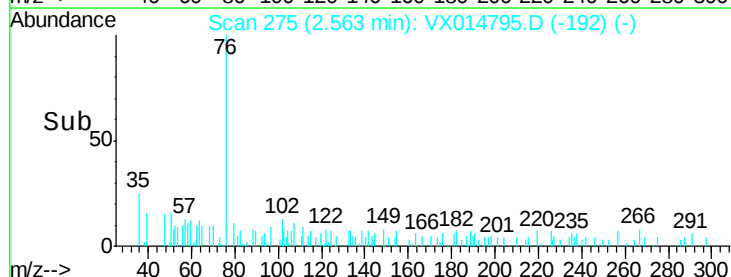
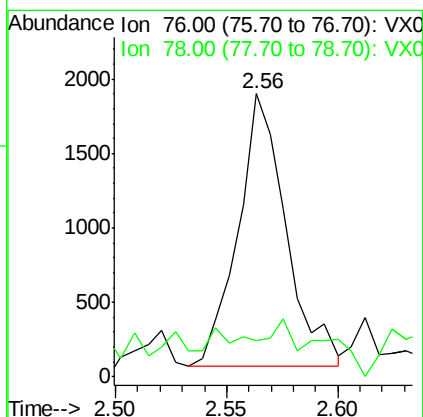
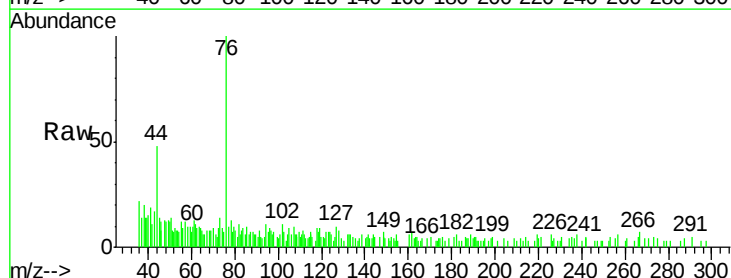
Acq: 03 Feb 2020 14:40

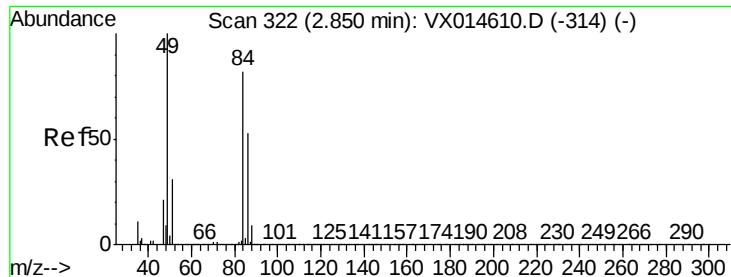
Tgt Ion: 76 Resp: 2745

Ion Ratio Lower Upper

76 100

78 4.1 7.8 11.8#

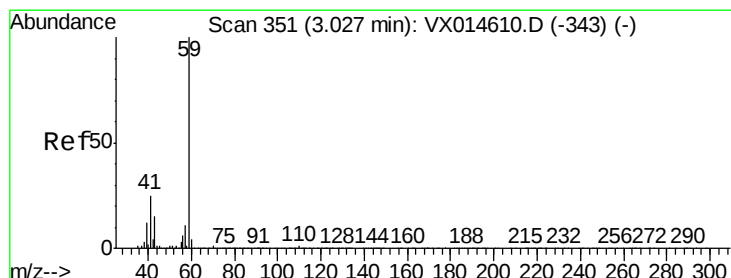
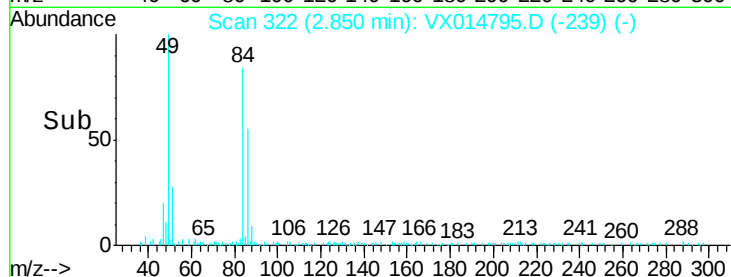
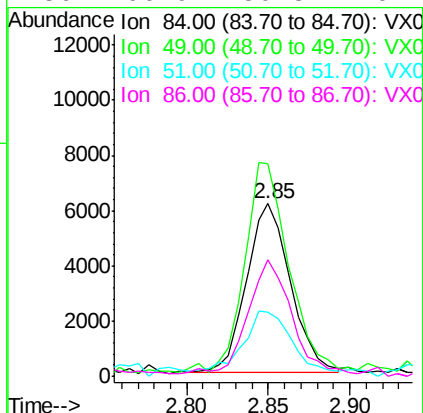
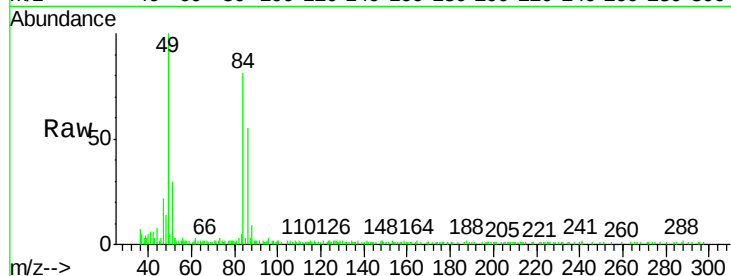




#18
Methylene Chloride
Concen: 2.57 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX014795.D
Acq: 03 Feb 2020 14:40

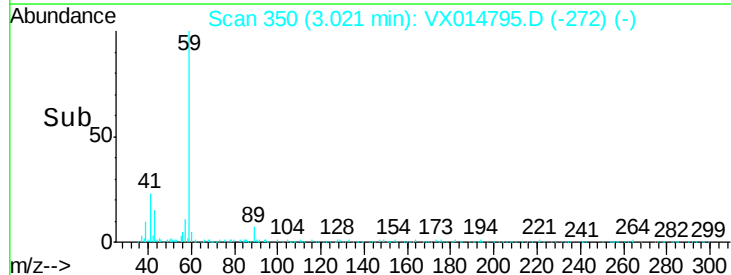
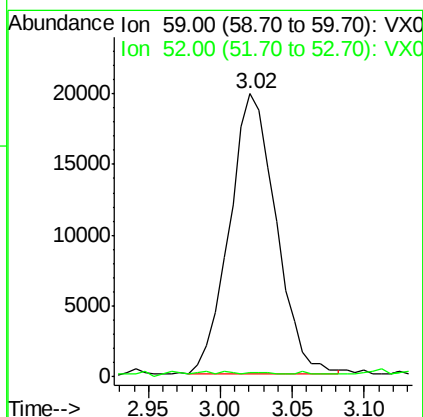
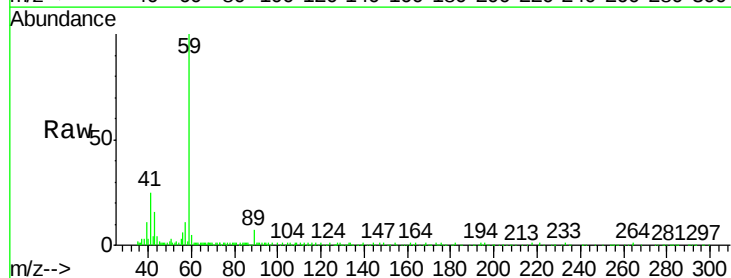
Instrument :
MSVOA_X
ClientSampleId :
M1-1-4-COMP

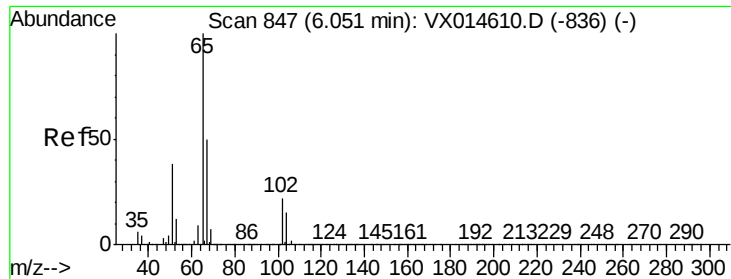
Tgt Ion: 84 Resp: 11485
Ion Ratio Lower Upper
84 100
49 121.6 102.2 153.2
51 34.7 31.4 47.0
86 66.9 50.8 76.2



#23
tert-Butyl Alcohol
Concen: 45.69 ug/l
RT: 3.02 min Scan# 350
Delta R.T. -0.02 min
Lab File: VX014795.D
Acq: 03 Feb 2020 14:40

Tgt Ion: 59 Resp: 44559
Ion Ratio Lower Upper
59 100
52 0.4 0.2 0.2#





#27

1,2-Dichloroethane-d4

Concen: 31.73 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014795.D

Acq: 03 Feb 2020 14:40

Instrument :

MSVOA_X

ClientSampleId :

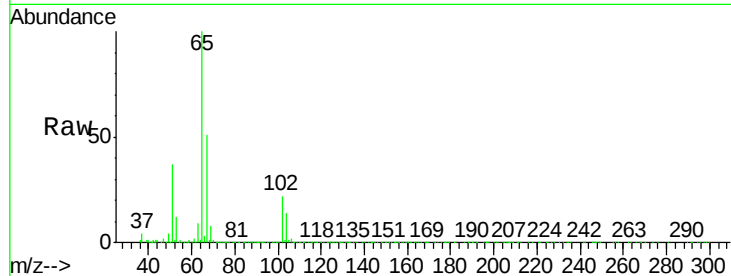
M1-1-4-COMP

Tgt Ion: 65 Resp: 153731

Ion Ratio Lower Upper

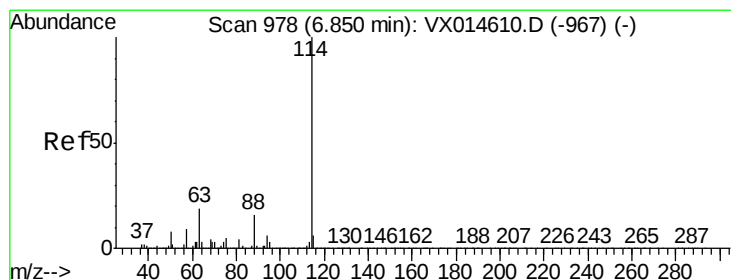
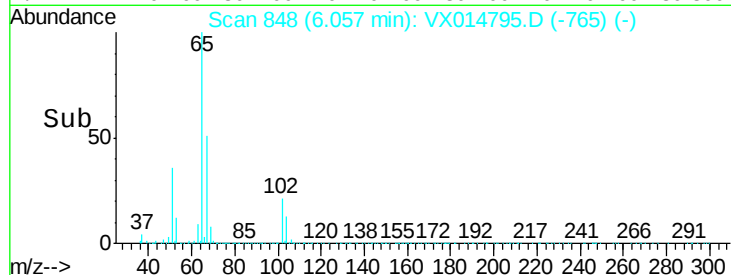
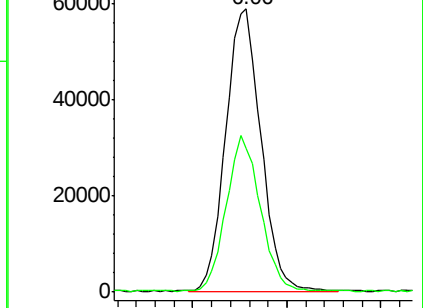
65 100

67 53.5 43.1 64.7



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014795.D

Acq: 03 Feb 2020 14:40

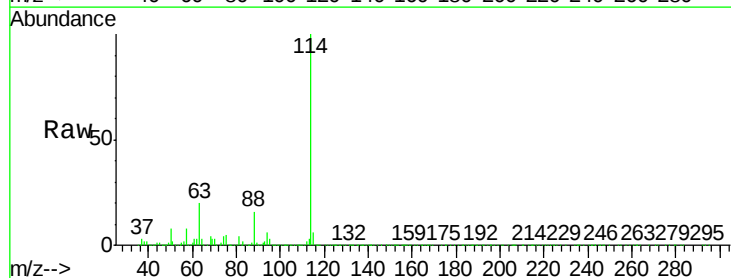
Tgt Ion: 114 Resp: 367649

Ion Ratio Lower Upper

114 100

63 20.0 16.1 24.1

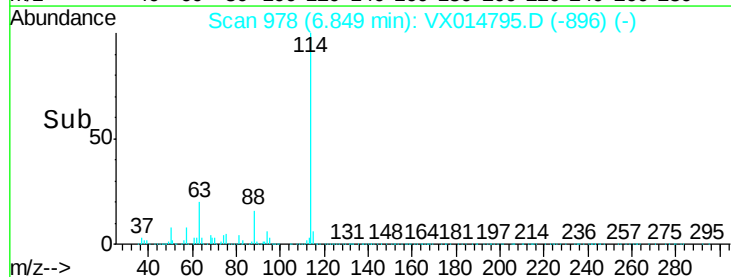
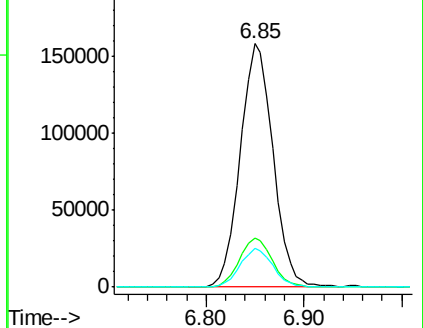
88 15.7 12.5 18.7

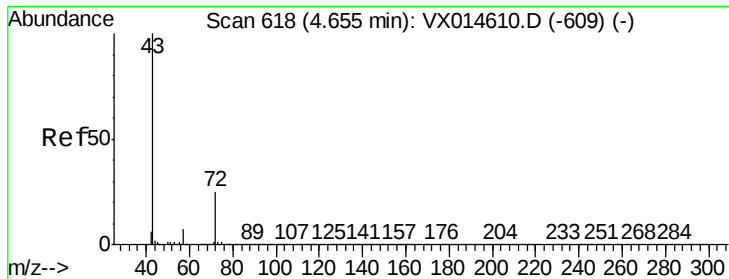


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

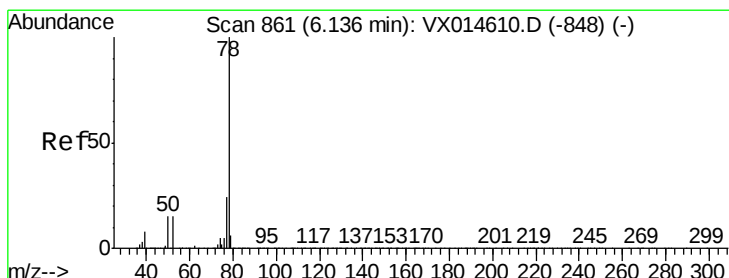
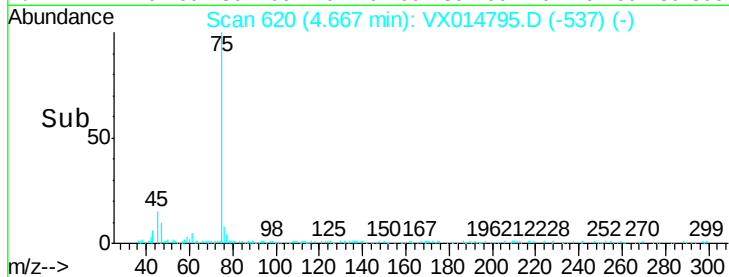
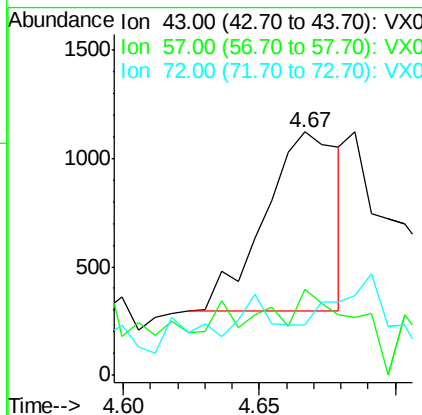
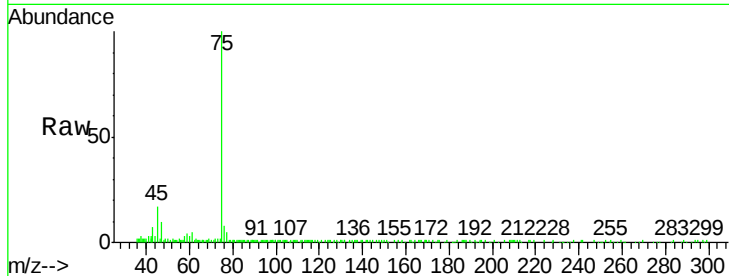




#30
2-Butanone
Concen: 0.46 ug/l
RT: 4.67 min Scan# 620
Delta R.T. 0.01 min
Lab File: VX014795.D
Acq: 03 Feb 2020 14:40

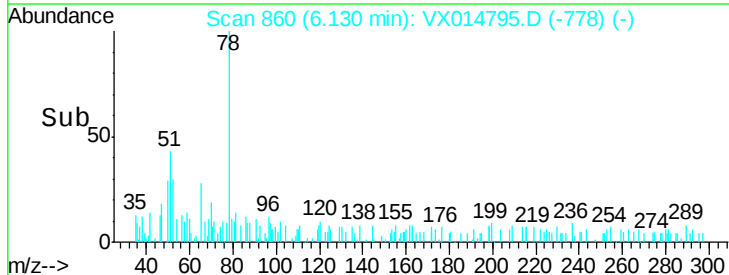
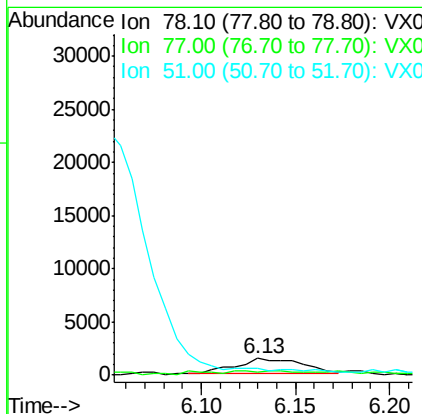
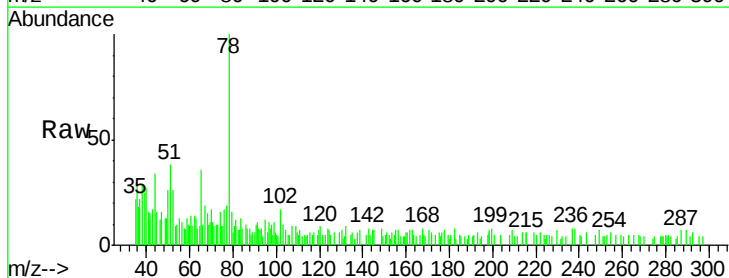
Instrument :
MSVOA_X
ClientSampled :
M1-1-4-COMP

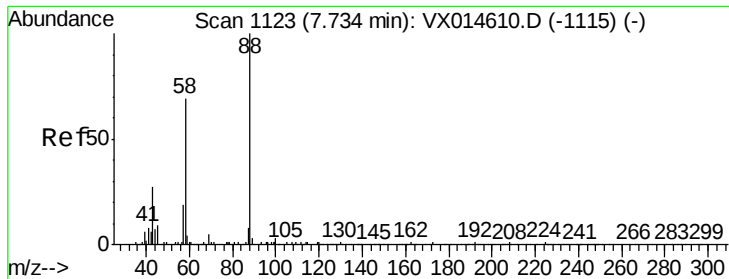
Tgt Ion: 43 Resp: 1559
Ion Ratio Lower Upper
43 100
57 11.4 6.2 9.2#
72 0.0 20.3 30.5#



#34
Benzene
Concen: 0.21 ug/l
RT: 6.13 min Scan# 860
Delta R.T. -0.00 min
Lab File: VX014795.D
Acq: 03 Feb 2020 14:40

Tgt Ion: 78 Resp: 3550
Ion Ratio Lower Upper
78 100
77 0.0 18.2 27.2#
51 19.3 12.4 18.6#





#45

1,4-Dioxane

Concen: 150.71 ug/l

RT: 7.73 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VX014795.D

Acq: 03 Feb 2020 14:40

Instrument :

MSVOA_X

ClientSampleId :

M1-1-4-COMP

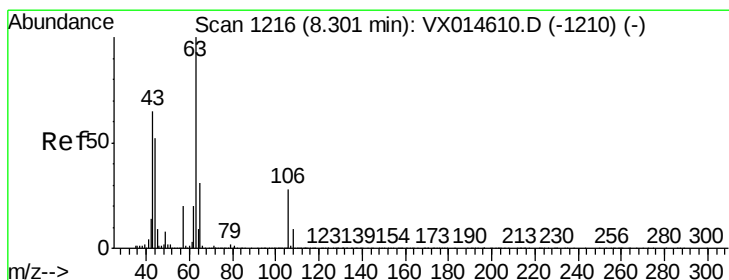
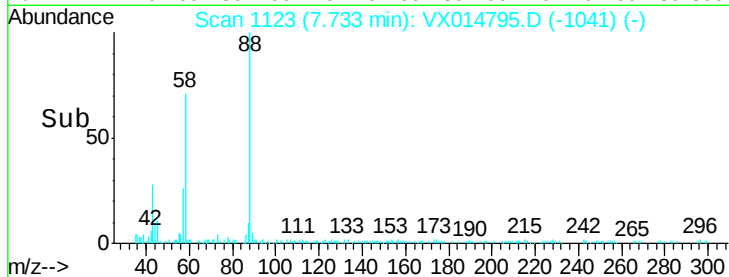
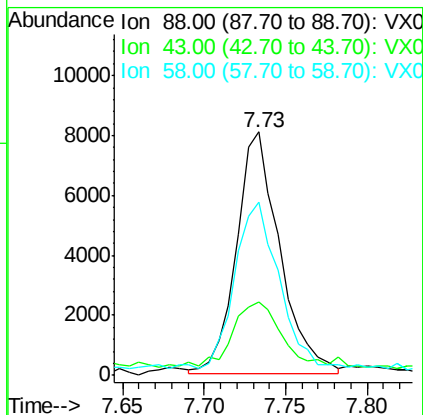
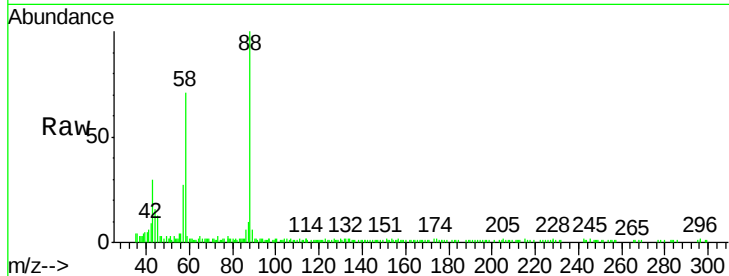
Tgt Ion: 88 Resp: 15037

Ion Ratio Lower Upper

88 100

43 31.6 25.4 38.2

58 69.4 56.5 84.7



#55

2-Chloroethyl vinyl ether

Concen: 0.27 ug/l

RT: 8.32 min Scan# 1219

Delta R.T. 0.01 min

Lab File: VX014795.D

Acq: 03 Feb 2020 14:40

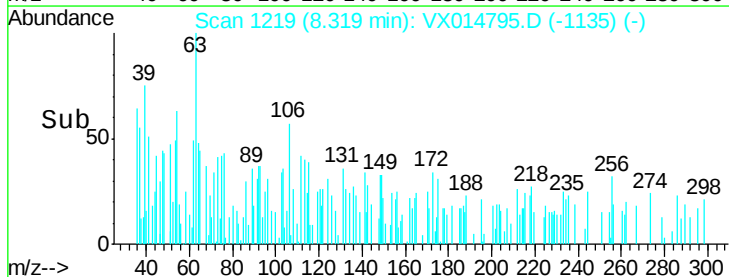
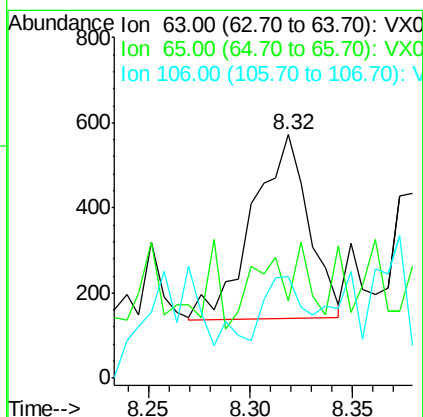
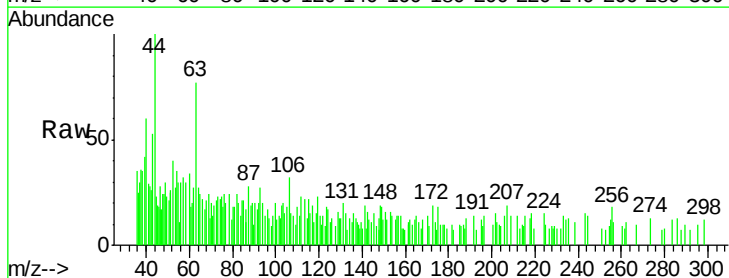
Tgt Ion: 63 Resp: 825

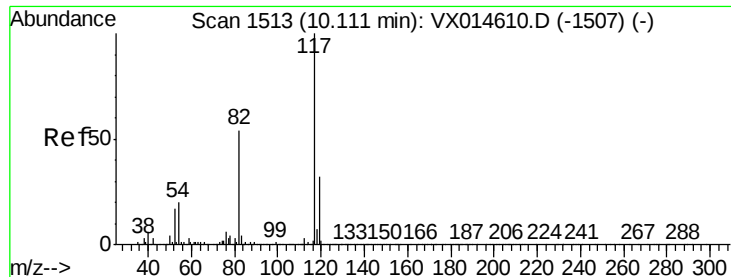
Ion Ratio Lower Upper

63 100

65 9.6 25.8 38.6#

106 32.0 22.9 34.3

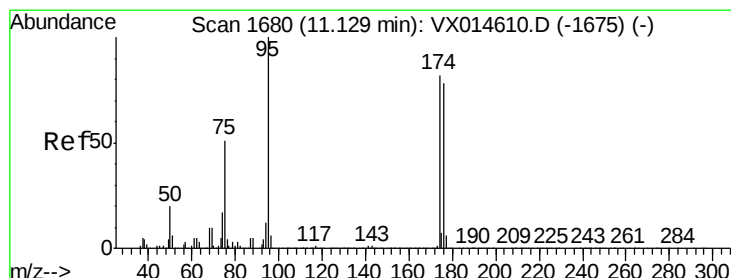
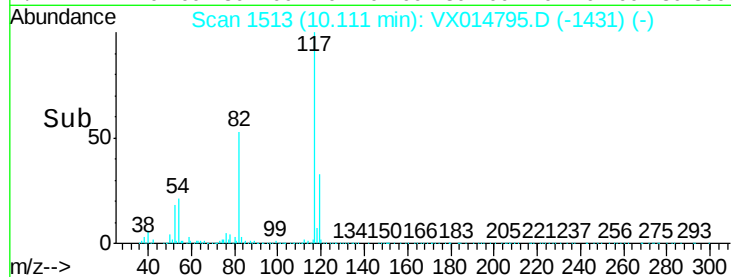
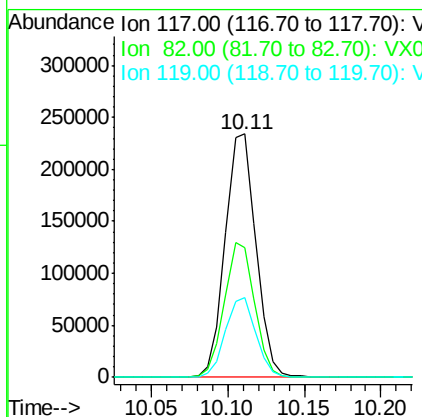
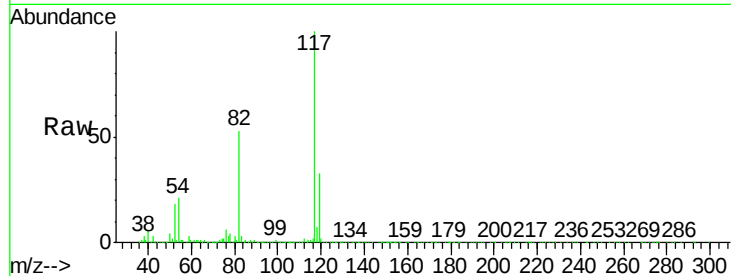




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX014795.D
Acq: 03 Feb 2020 14:40

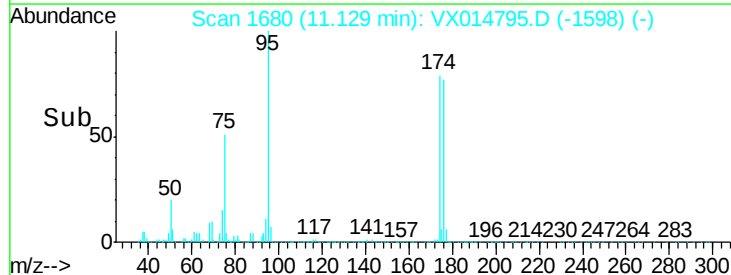
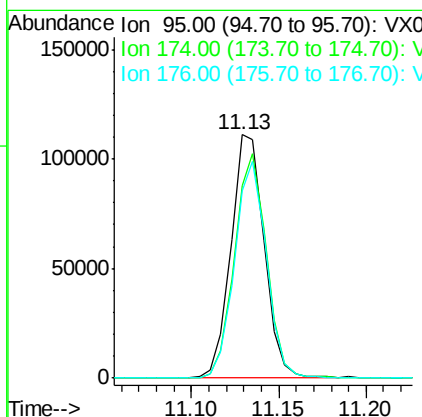
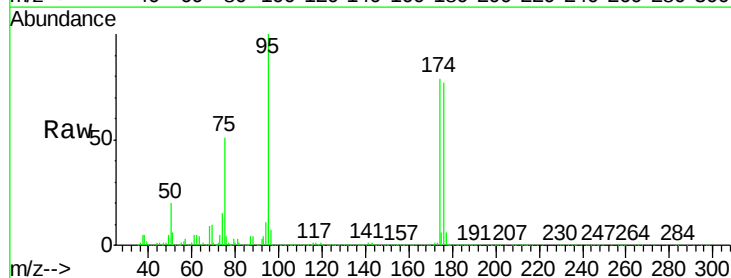
Instrument :
MSVOA_X
ClientSampleId :
M1-1-4-COMP

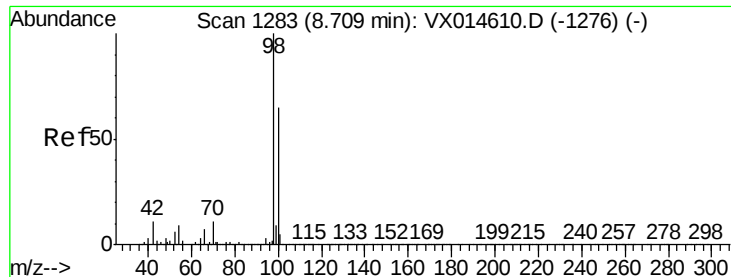
Tgt Ion: 117 Resp: 327400
Ion Ratio Lower Upper
117 100
82 53.9 43.8 65.6
119 32.3 25.8 38.6



#60
4-Bromofluorobenzene
Concen: 27.85 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. -0.00 min
Lab File: VX014795.D
Acq: 03 Feb 2020 14:40

Tgt Ion: 95 Resp: 145905
Ion Ratio Lower Upper
95 100
174 89.2 70.2 105.2
176 85.6 68.3 102.5





#63

Toluene-d8

Concen: 29.65 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014795.D

Acq: 03 Feb 2020 14:40

Instrument :

MSVOA_X

ClientSampleId :

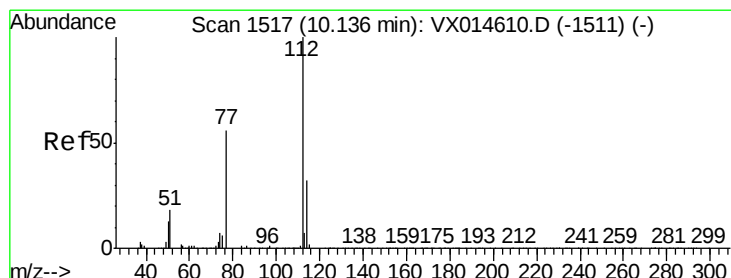
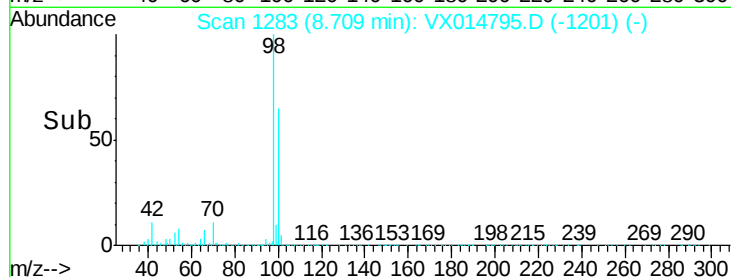
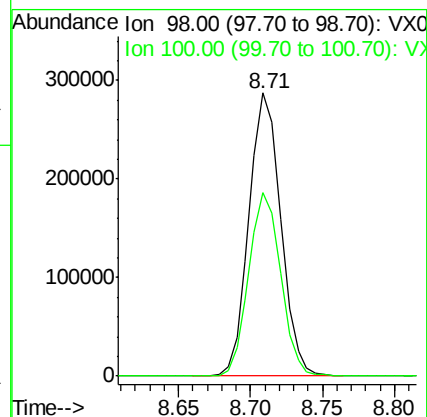
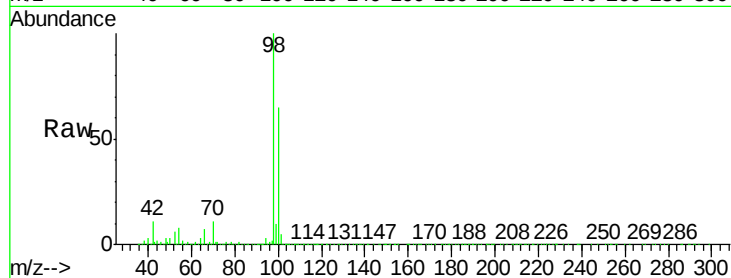
M1-1-4-COMP

Tgt Ion: 98 Resp: 438499

Ion Ratio Lower Upper

98 100

100 65.4 52.2 78.2



#64

Chlorobenzene

Concen: 19.47 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. -0.00 min

Lab File: VX014795.D

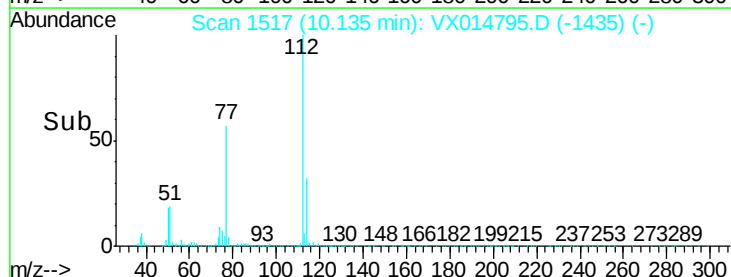
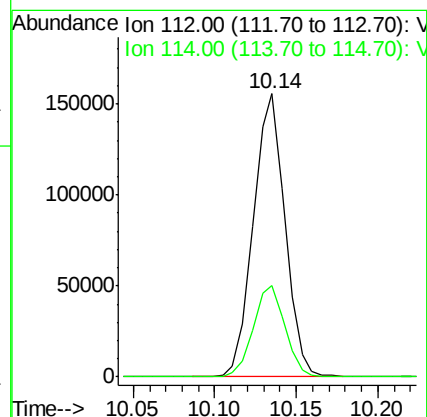
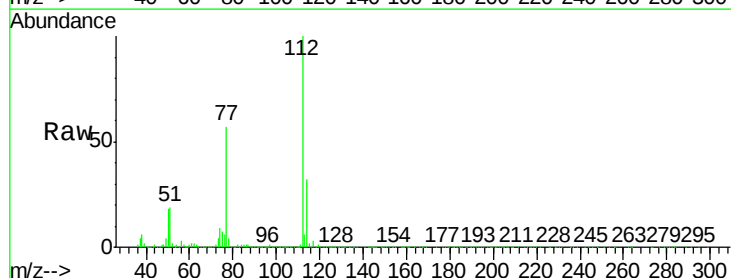
Acq: 03 Feb 2020 14:40

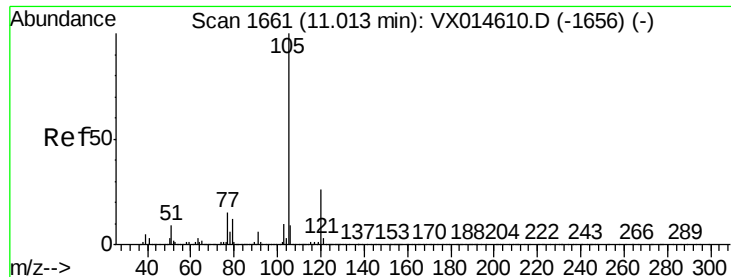
Tgt Ion: 112 Resp: 211131

Ion Ratio Lower Upper

112 100

114 32.1 24.4 36.6





#70

Isopropylbenzene

Concen: 0.41 ug/l

RT: 11.01 min Scan# 1661

Delta R.T. -0.00 min

Lab File: VX014795.D

Acq: 03 Feb 2020 14:40

Instrument :

MSVOA_X

ClientSampleId :

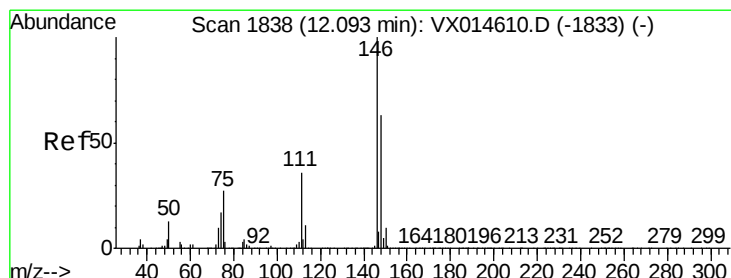
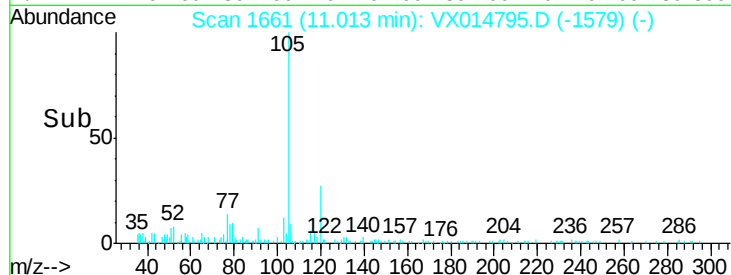
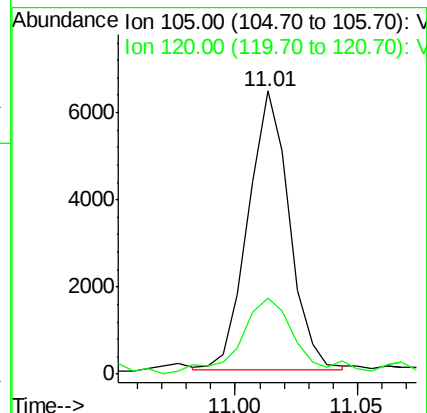
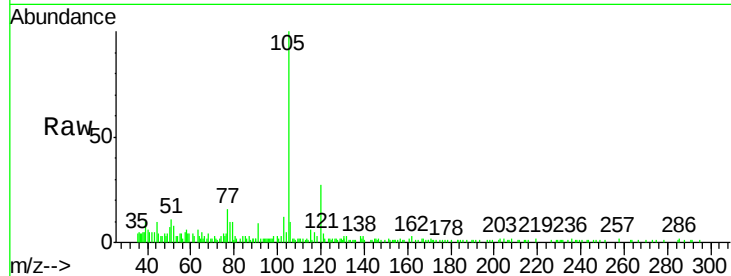
M1-1-4-COMP

Tgt Ion:105 Resp: 7492

Ion Ratio Lower Upper

105 100

120 32.7 19.1 35.5



#84

1,4-Dichlorobenzene

Concen: 0.82 ug/l

RT: 12.09 min Scan# 1838

Delta R.T. -0.00 min

Lab File: VX014795.D

Acq: 03 Feb 2020 14:40

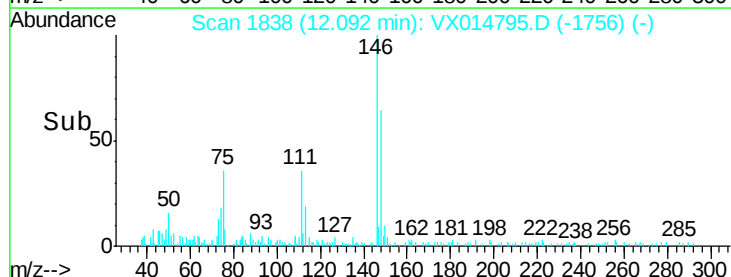
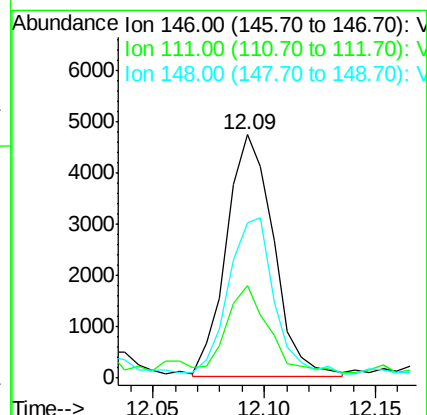
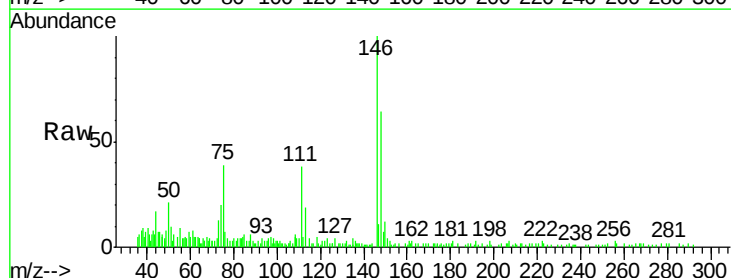
Tgt Ion:146 Resp: 6920

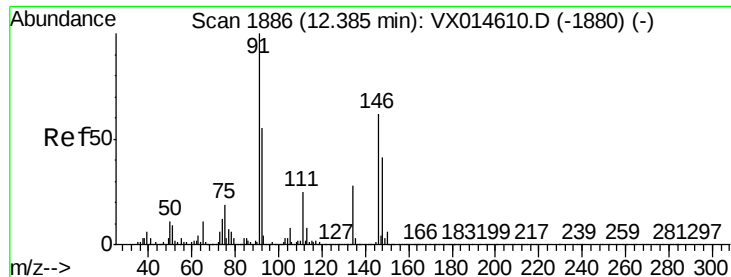
Ion Ratio Lower Upper

146 100

111 33.4 18.4 55.4

148 65.2 32.0 96.0

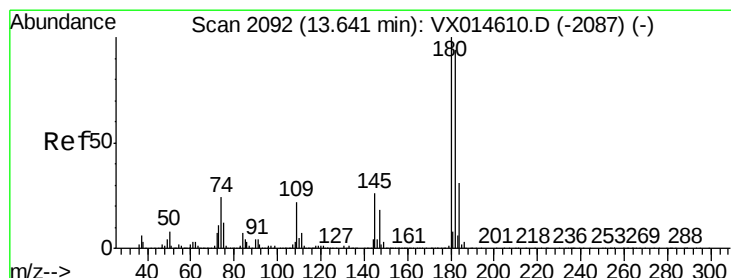
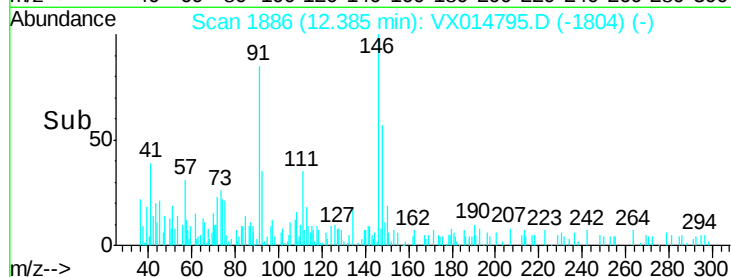
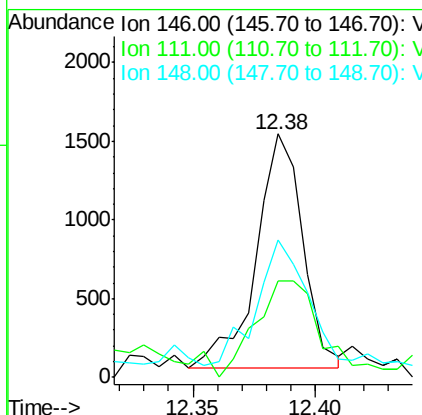
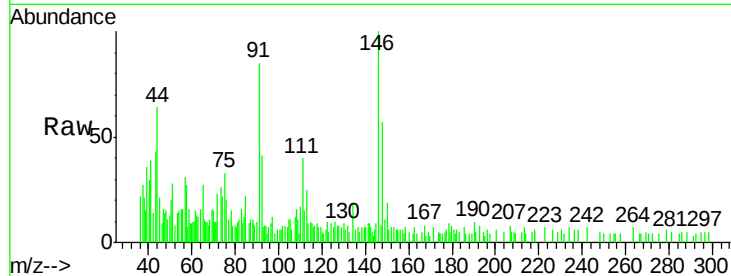




#87
 1,2-Dichlorobenzene
 Concen: 0.23 ug/l
 RT: 12.38 min Scan# 1886
 Delta R.T. -0.00 min
 Lab File: VX014795.D
 Acq: 03 Feb 2020 14:40

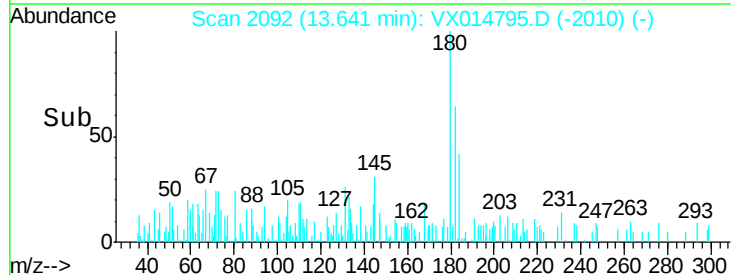
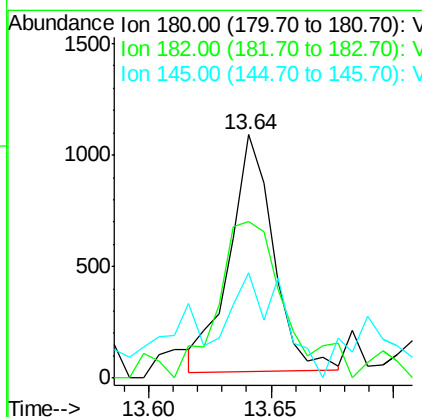
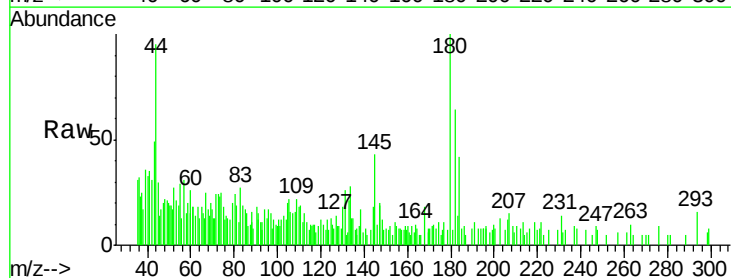
Instrument :
 MSVOA_X
 ClientSampleId :
 M1-1-4-COMP

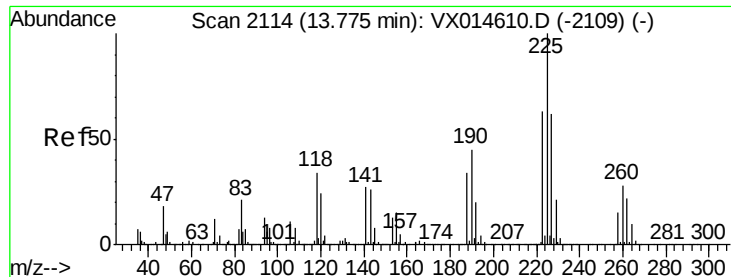
Tgt Ion:146 Resp: 1972
 Ion Ratio Lower Upper
 146 100
 111 59.6 20.1 60.2
 148 57.9 32.0 96.2



#89
 1,2,4-Trichlorobenzene
 Concen: 0.23 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: VX014795.D
 Acq: 03 Feb 2020 14:40

Tgt Ion:180 Resp: 1320
 Ion Ratio Lower Upper
 180 100
 182 93.0 76.4 114.6
 145 55.0 21.9 32.9#

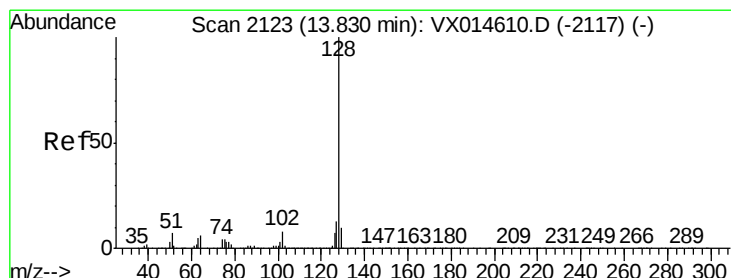
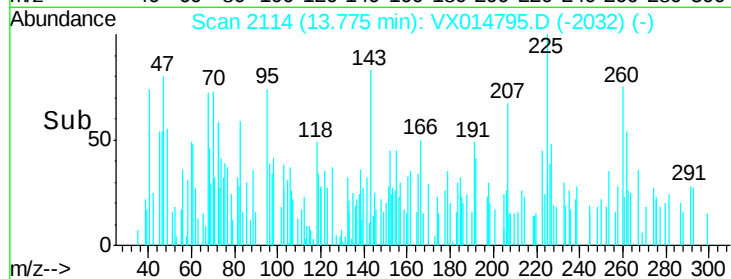
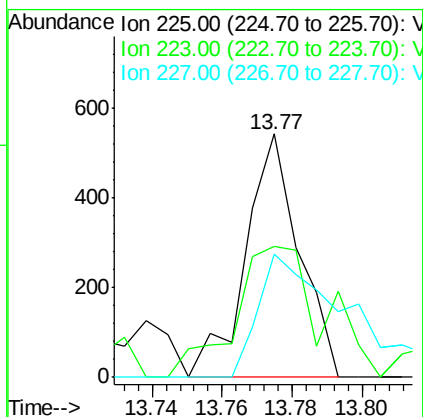
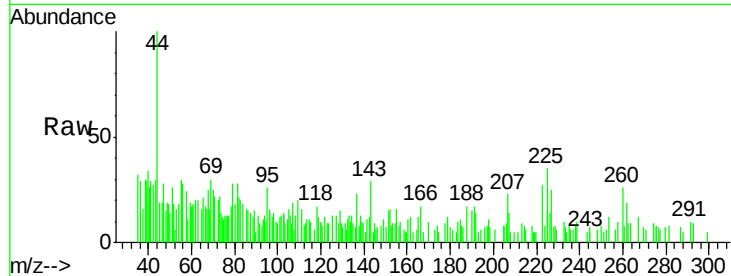




#90
Hexachlorobutadiene
Concen: 0.20 ug/l
RT: 13.77 min Scan# 2114
Delta R.T. -0.00 min
Lab File: VX014795.D
Acq: 03 Feb 2020 14:40

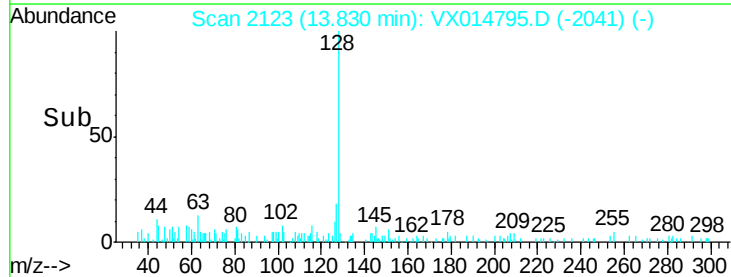
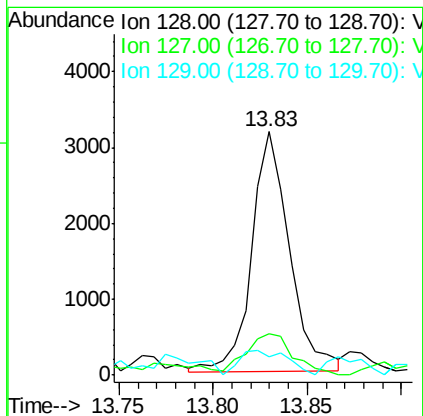
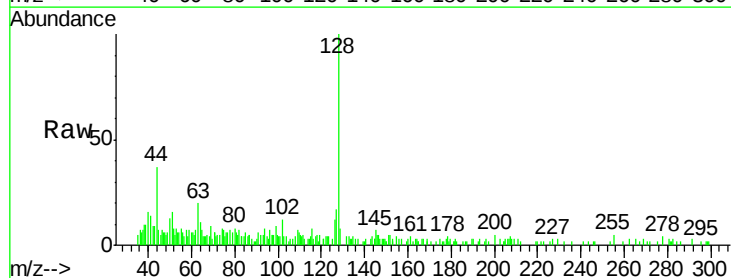
Instrument :
MSVOA_X
ClientSampleId :
M1-1-4-COMP

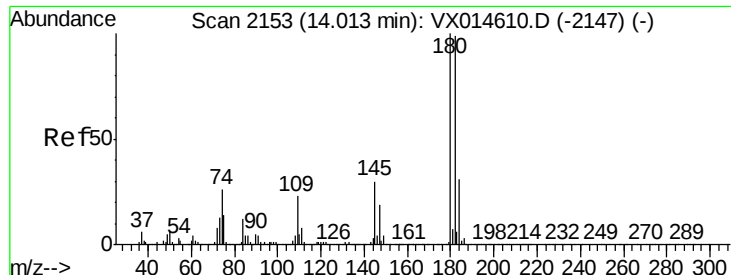
Tgt Ion:225 Resp: 574
Ion Ratio Lower Upper
225 100
223 62.7 0.0 127.4
227 75.6 0.0 122.8



#91
Naphthalene
Concen: 0.26 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX014795.D
Acq: 03 Feb 2020 14:40

Tgt Ion:128 Resp: 4402
Ion Ratio Lower Upper
128 100
127 21.5 10.4 15.6#
129 13.1 8.9 13.3

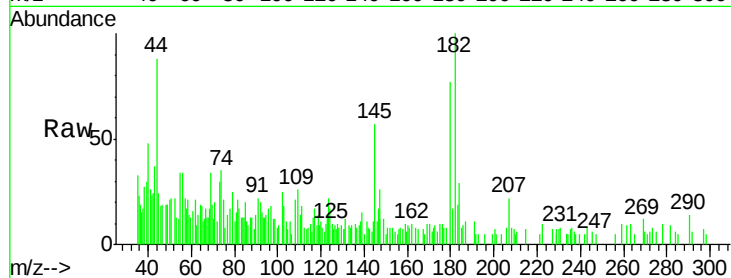




#92
 1,2,3-Trichlorobenzene
 Concen: 0.24 ug/l
 RT: 14.02 min Scan# 2154
 Delta R.T. 0.01 min
 Lab File: VX014795.D
 Acq: 03 Feb 2020 14:40

Instrument :
 MSVOA_X
 ClientSampleId :
 M1-1-4-COMP

Tgt Ion	Ratio	Lower	Upper
180	100		
182	105.7	0.0	192.8
145	50.0	0.0	60.0



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

