

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002794.D
 Acq On : 21 Jun 2018 17:49
 Operator : JC/MD
 Sample : J3603-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 22 01:11:55 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	215788	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	302922	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	281932	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	158742	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	146713	44.74	ug/l	0.00
Spiked Amount			Recovery	=	89.48%	
35) Dibromofluoromethane	5.51	113	116069	48.01	ug/l	0.00
Spiked Amount			Recovery	=	96.02%	
50) Toluene-d8	8.72	98	428042	46.63	ug/l	0.00
Spiked Amount			Recovery	=	93.26%	
62) 4-Bromofluorobenzene	11.14	95	148354	42.65	ug/l	0.00
Spiked Amount			Recovery	=	85.30%	

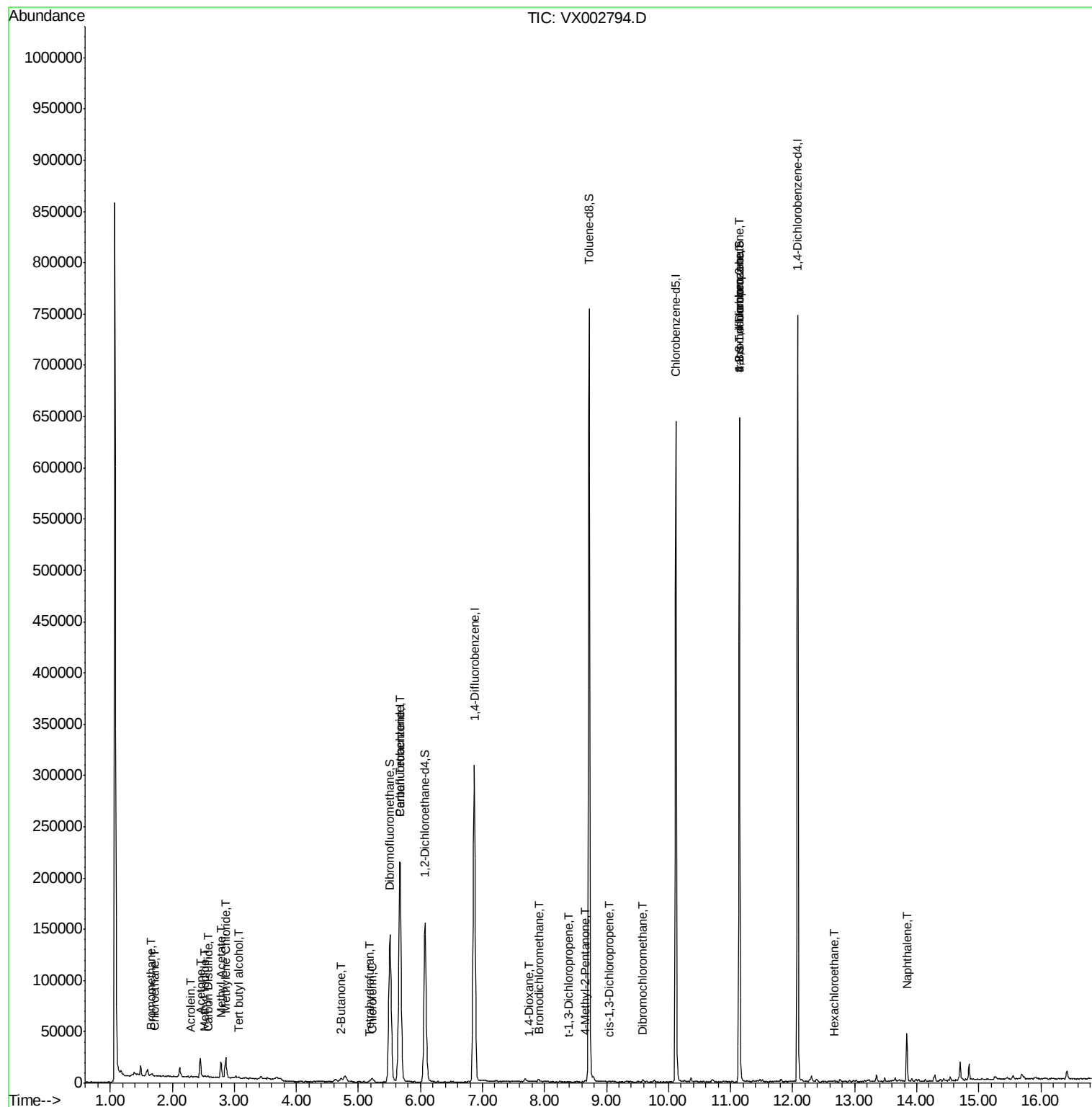
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	894	0.52	ug/l #	73
6) Chloroethane	1.71	64	979	0.53	ug/l	97
10) Methyl Iodide	2.52	142	1176	5.49	ug/l #	98
11) Tert butyl alcohol	3.07	59	770	1.14	ug/l #	93
13) Acrolein	2.29	56	519	8.45	ug/l #	76
16) Acetone	2.45	43	20517	14.18	ug/l	95
17) Carbon Disulfide	2.57	76	1455	0.25	ug/l #	74
18) Methyl Acetate	2.78	43	18482	4.80	ug/l	98
20) Methylene Chloride	2.86	84	8806	2.97	ug/l	96
25) 2-Butanone	4.72	43	5495	2.89	ug/l	98
29) Tetrahydrofuran	5.18	42	1069	0.86	ug/l #	69
30) Chloroform	5.23	83	3550	0.78	ug/l	93
38) Carbon Tetrachloride	5.67	117	20091	6.27	ug/l #	15
47) Bromodichloromethane	7.91	83	1290	0.43	ug/l #	82
49) 1,4-Dioxane	7.75	88	22	0.38	ug/l #	22
51) 4-Methyl-2-Pentanone	8.65	43	958	0.25	ug/l	94
53) t-1,3-Dichloropropene	8.40	75	22	2.40	ug/l #	43
54) cis-1,3-Dichloropropene	9.04	75	22	3.22	ug/l #	1
60) Dibromochloromethane	9.59	129	453	3.91	ug/l	84
76) 1,2,3-Trichloropropane	11.14	75	79760	26.63	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	79760	82.26	ug/l #	7
90) Hexachloroethane	12.67	117	95	2.68	ug/l #	1
95) Naphthalene	13.84	128	27993	2.63	ug/l	99

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002794.D

Acq: 21 Jun 2018 17:49

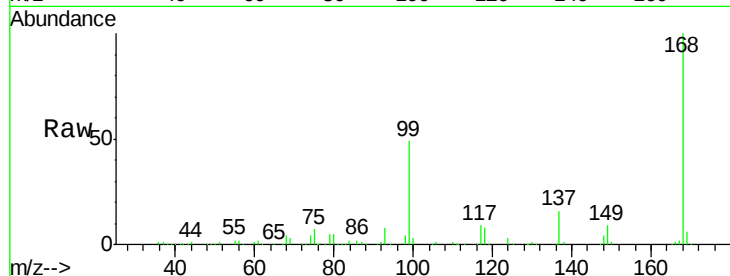
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 215788

Ion Ratio Lower Upper

168 100

99 49.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

40000

20000

0

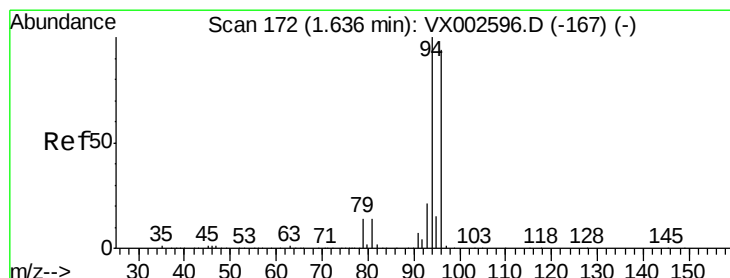
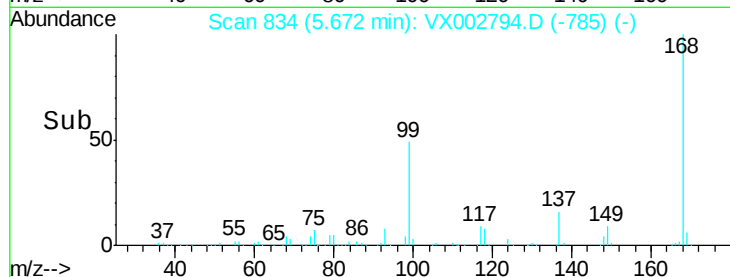
Time-->

5.50

5.60

5.70

5.80



#5

Bromomethane

Concen: 0.52 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002794.D

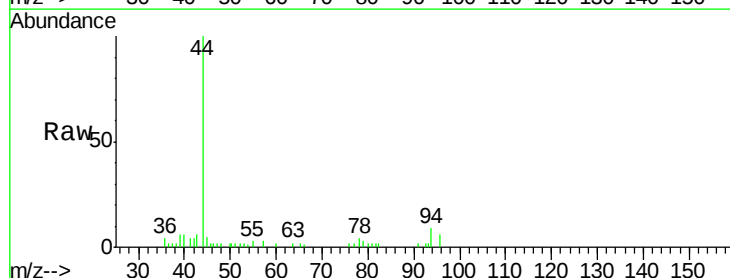
Acq: 21 Jun 2018 17:49

Tgt Ion: 94 Resp: 894

Ion Ratio Lower Upper

94 100

96 67.1 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

300

200

100

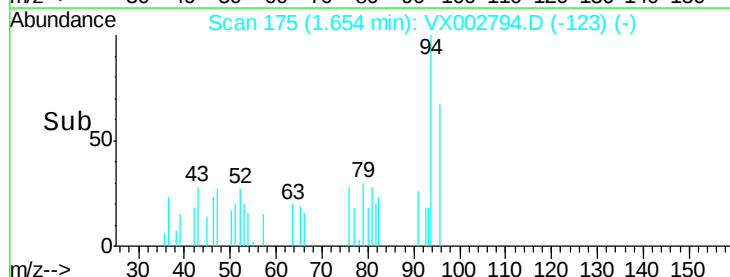
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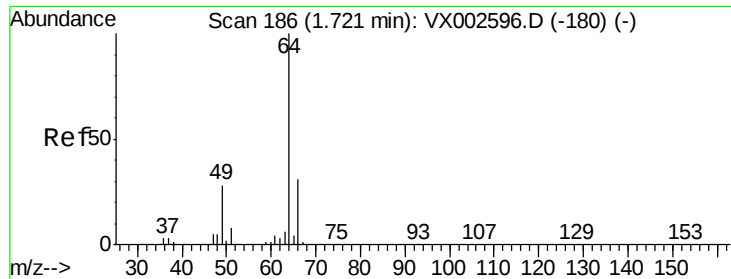
Time-->

1.60

1.65

1.70





#6

Chloroethane

Concen: 0.53 ug/l

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX002794.D

Acq: 21 Jun 2018 17:49

Instrument :

MSVOA_X

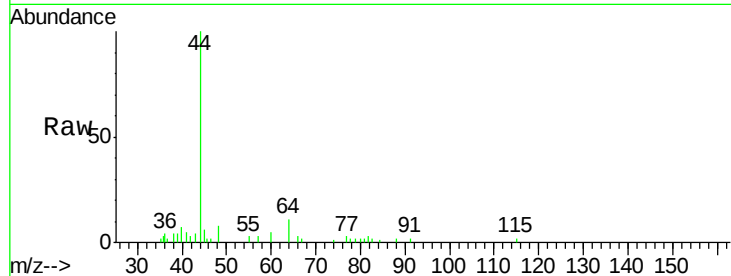
ClientSampleId :

Tot Ion: 64 Resp: 979

Ion Ratio Lower Upper

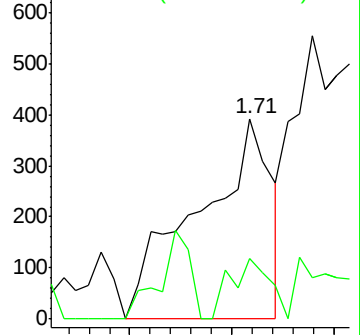
64 100

66 30.4 25.5 38.3

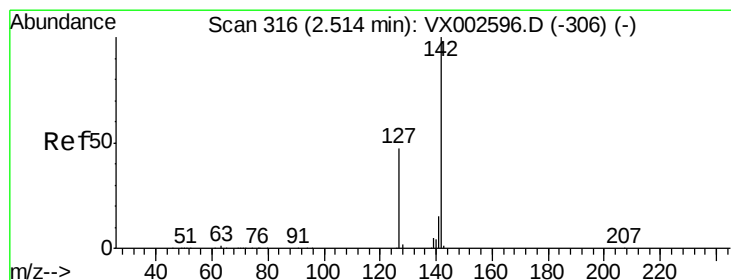
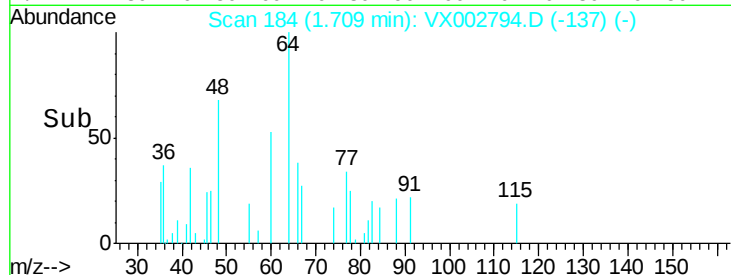


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->



#10

Methyl Iodide

Concen: 5.49 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002794.D

Acq: 21 Jun 2018 17:49

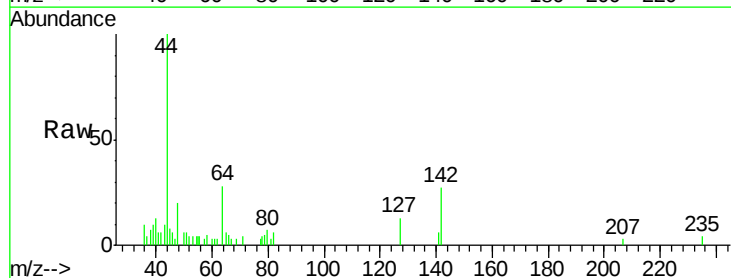
Tgt Ion:142 Resp: 1176

Ion Ratio Lower Upper

142 100

127 45.9 36.6 55.0

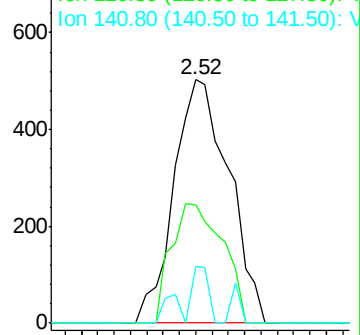
141 10.6 11.3 16.9#



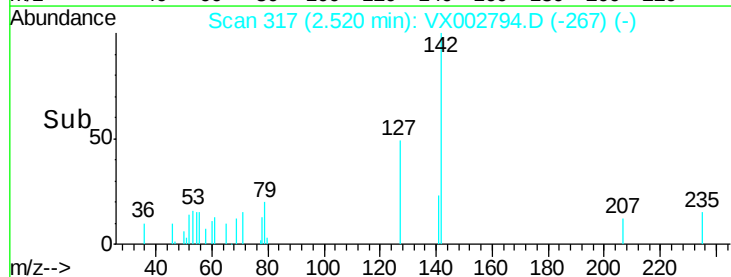
Abundance Ion 141.80 (141.50 to 142.50): V

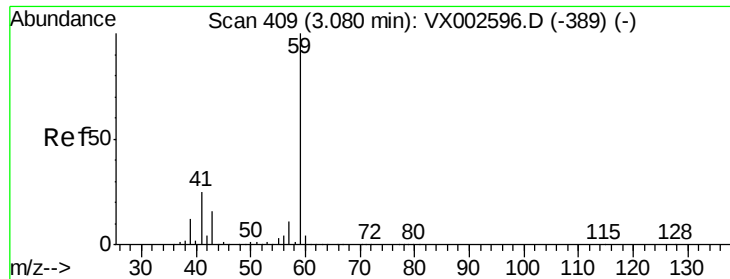
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->

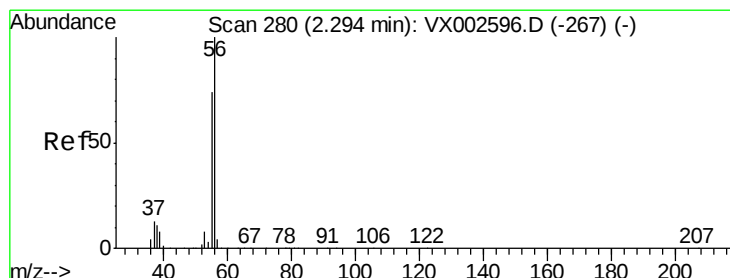
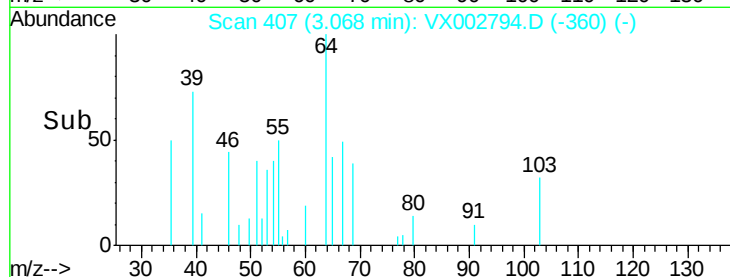
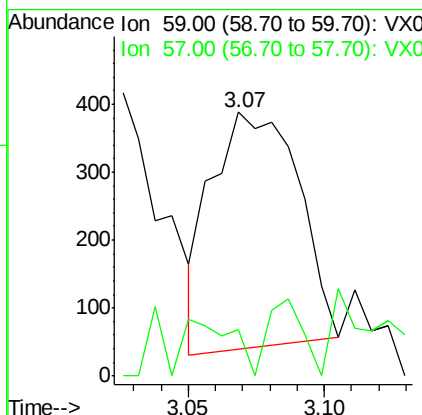
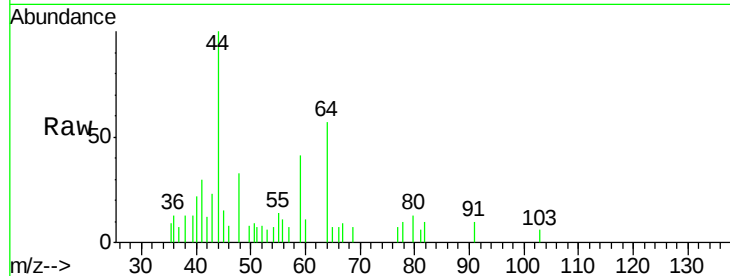




#11
Tert butyl alcohol
Concen: 1.14 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX002794.D
Acq: 21 Jun 2018 17:49

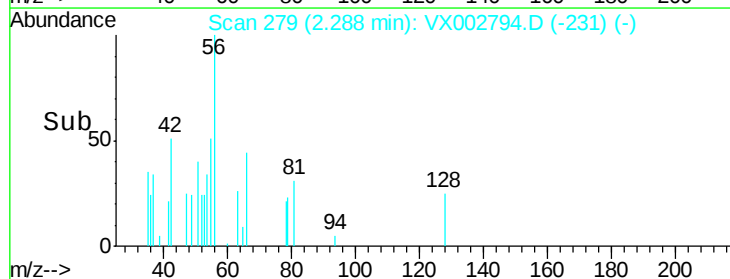
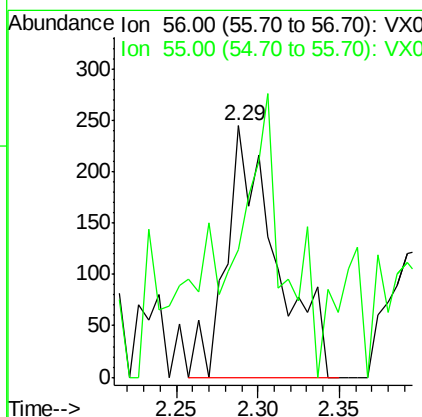
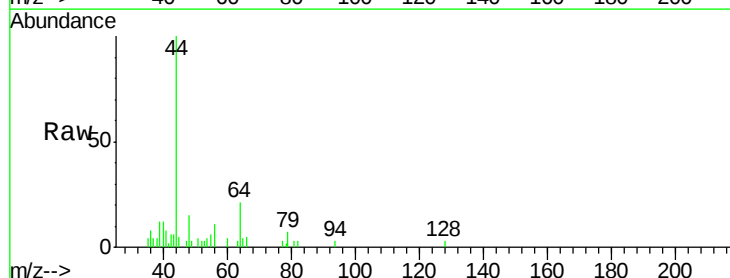
Instrument :
MSVOA_X
ClientSampled :

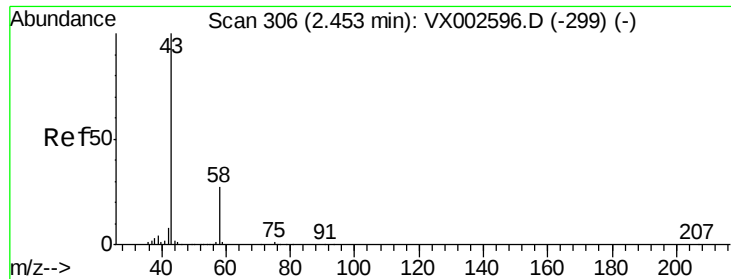
Tot Ion: 59 Resp: 770
Ion Ratio Lower Upper
59 100
57 12.7 8.2 12.2#



#13
Acrolein
Concen: 8.45 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX002794.D
Acq: 21 Jun 2018 17:49

Tgt Ion: 56 Resp: 519
Ion Ratio Lower Upper
56 100
55 91.1 57.0 85.4#





#16

Acetone

Concen: 14.18 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002794.D

Acq: 21 Jun 2018 17:49

Instrument :

MSVOA_X

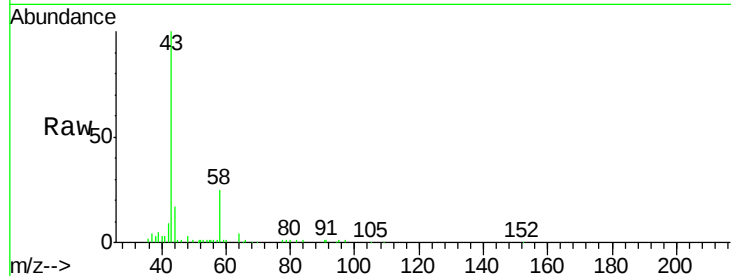
ClientSampled :

Tot Ion: 43 Resp: 20517

Ion Ratio Lower Upper

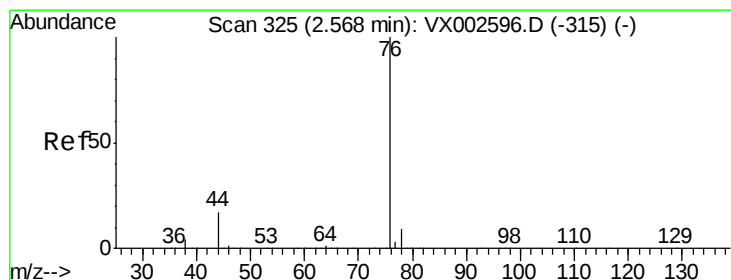
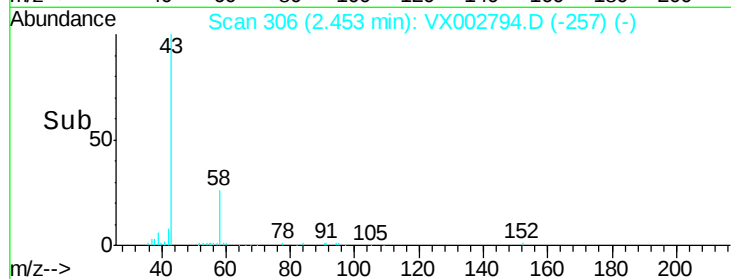
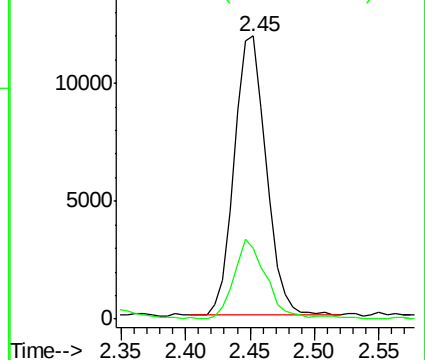
43 100

58 25.0 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.25 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002794.D

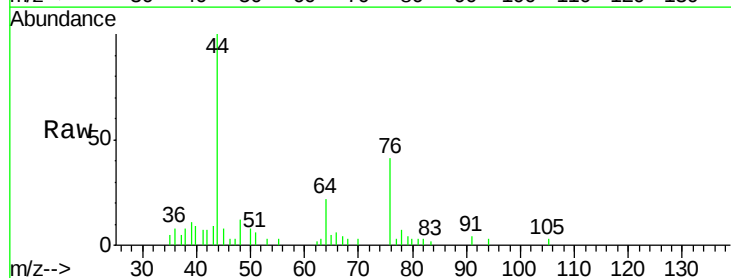
Acq: 21 Jun 2018 17:49

Tgt Ion: 76 Resp: 1455

Ion Ratio Lower Upper

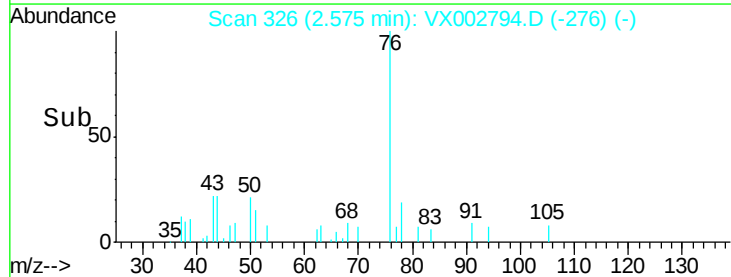
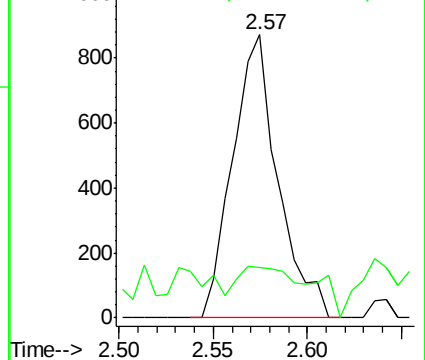
76 100

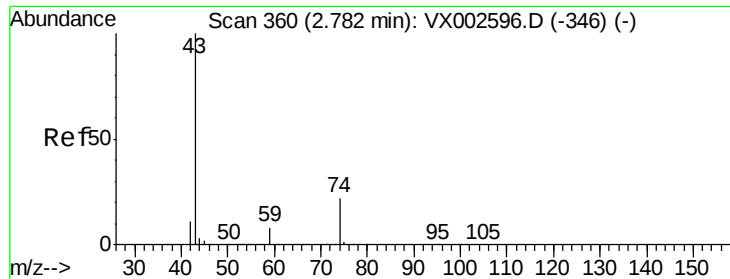
78 17.8 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

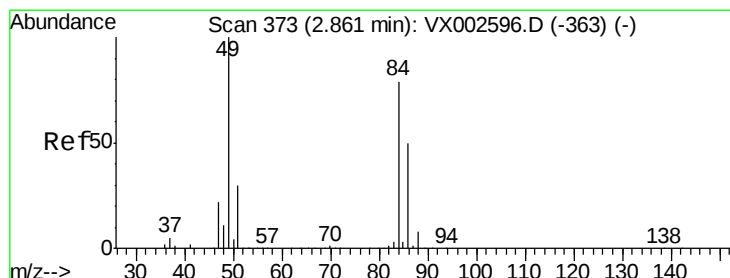
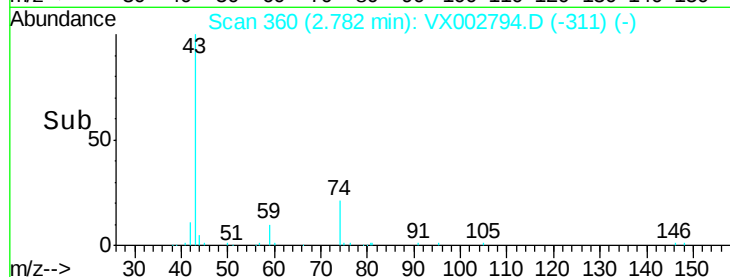
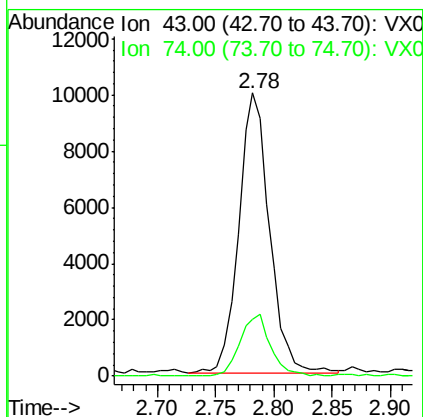
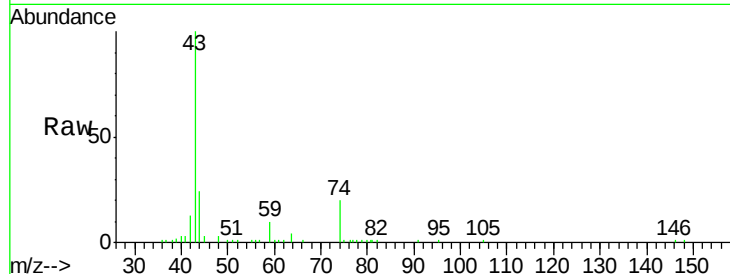




#18
Methvl Acetate
Concen: 4.80 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002794.D
Acq: 21 Jun 2018 17:49

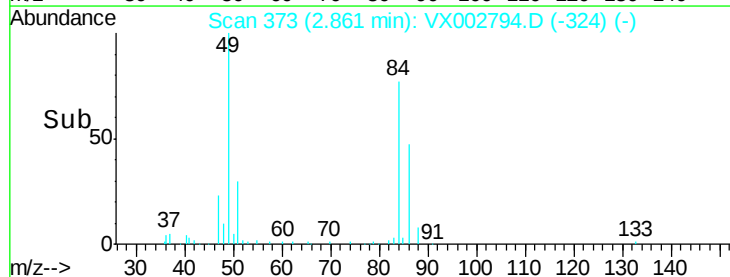
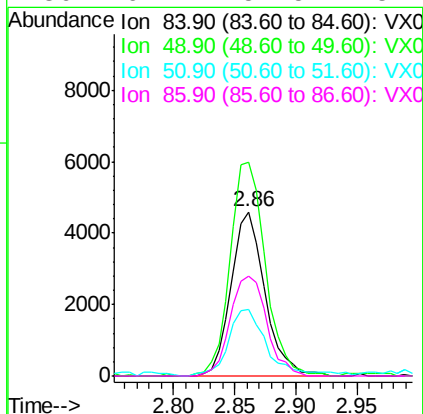
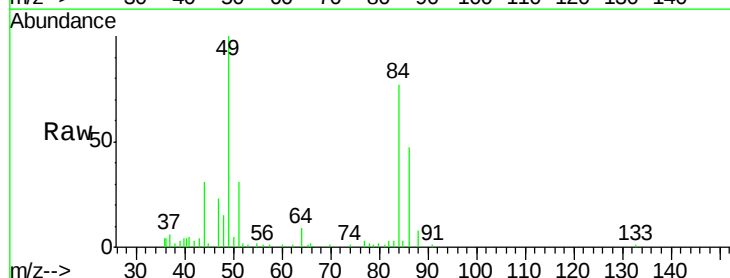
Instrument :
MSVOA_X
ClientSampleId :

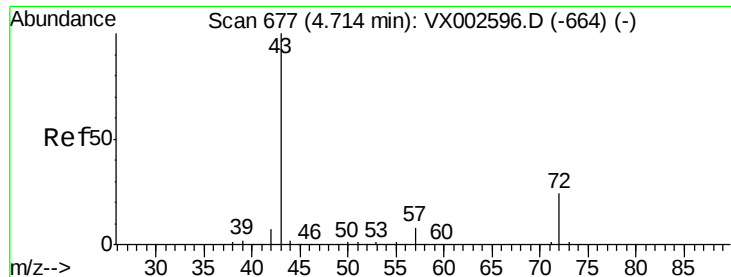
Tot Ion: 43 Resp: 18482
Ion Ratio Lower Upper
43 100
74 21.8 16.7 25.1



#20
Methylene Chloride
Concen: 2.97 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002794.D
Acq: 21 Jun 2018 17:49

Tgt Ion: 84 Resp: 8806
Ion Ratio Lower Upper
84 100
49 130.3 107.8 161.6
51 40.6 32.8 49.2
86 61.2 52.5 78.7





#25

2-Butanone

Concen: 2.89 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002794.D

Acq: 21 Jun 2018 17:49

Instrument :

MSVOA_X

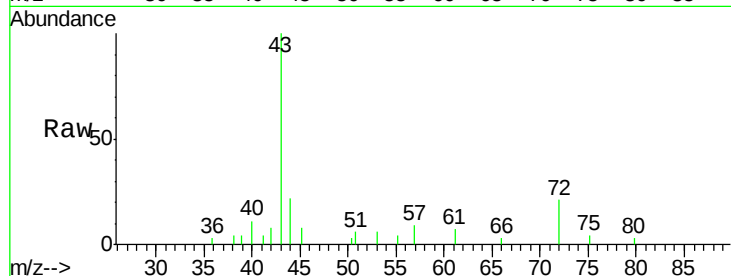
ClientSampled :

Tot Ion: 43 Resp: 5495

Ion Ratio Lower Upper

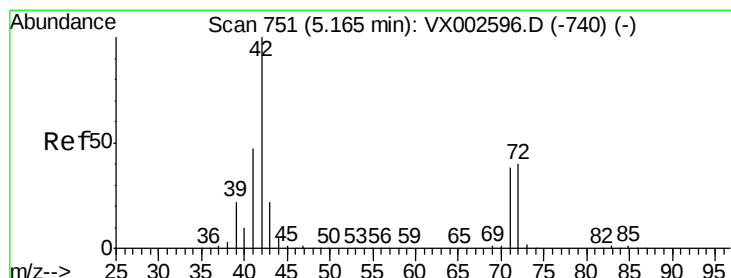
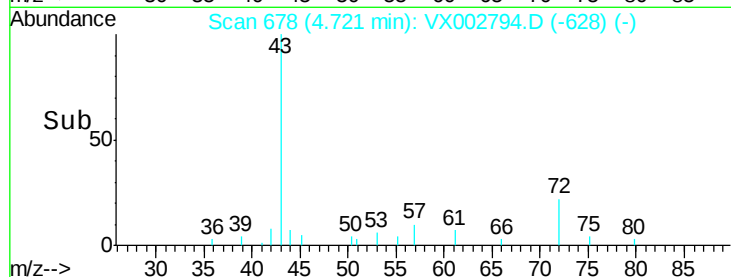
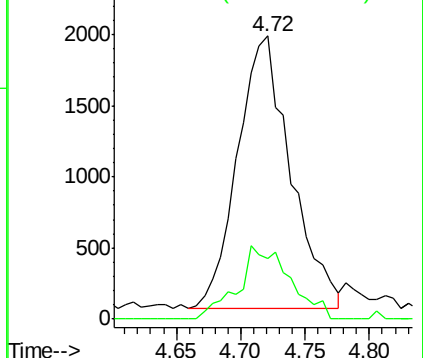
43 100

72 22.0 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.86 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002794.D

Acq: 21 Jun 2018 17:49

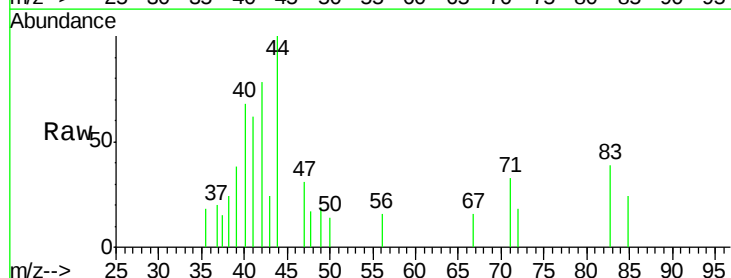
Tgt Ion: 42 Resp: 1069

Ion Ratio Lower Upper

42 100

72 25.0 32.0 48.0#

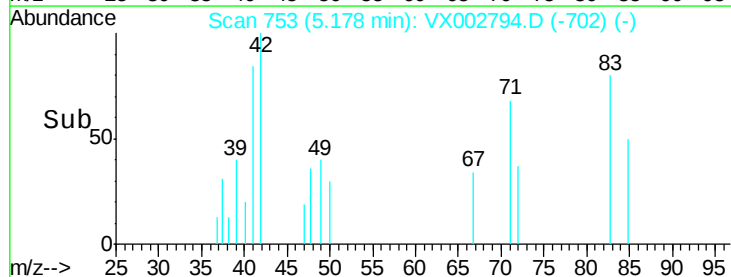
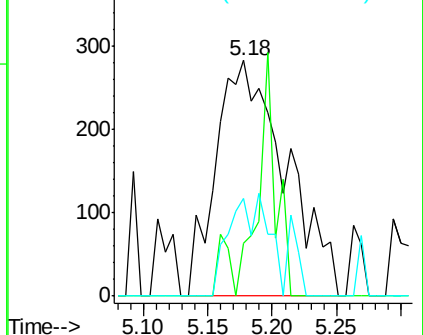
71 14.7 30.1 45.1#

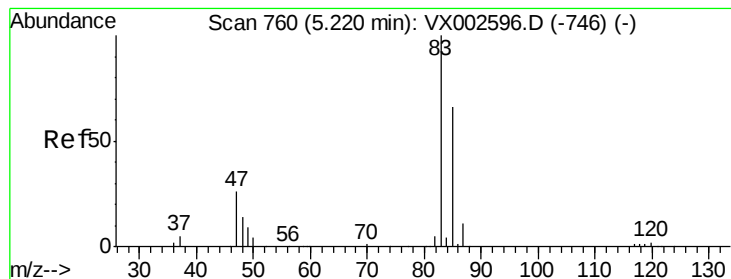


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#30

Chloroform

Concen: 0.78 ug/l

RT: 5.23 min Scan# 761

Delta R.T. 0.01 min

Lab File: VX002794.D

Acq: 21 Jun 2018 17:49

Instrument :

MSVOA_X

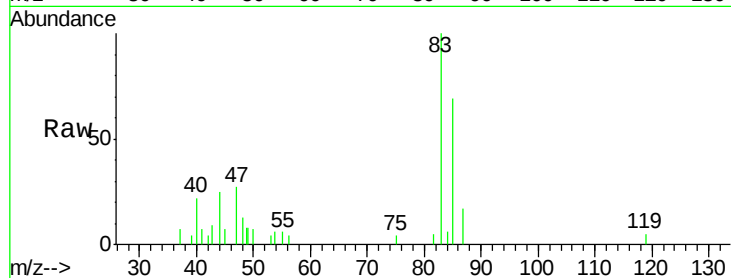
ClientSampled :

Tot Ion: 83 Resp: 3550

Ion Ratio Lower Upper

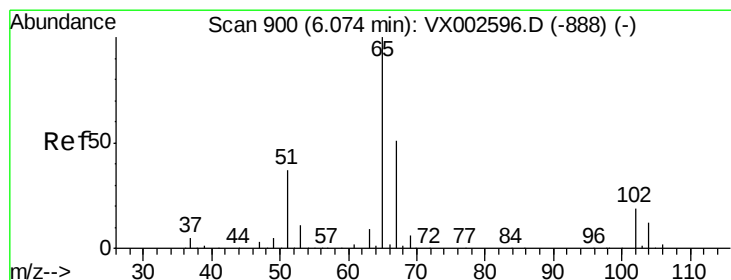
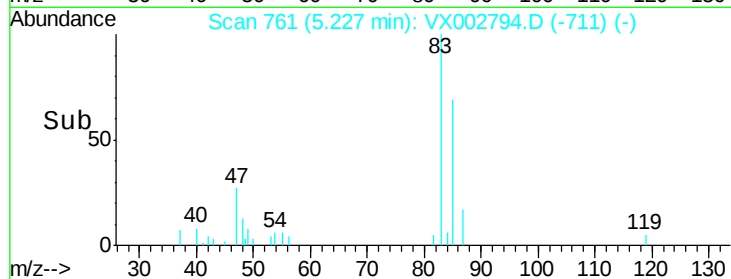
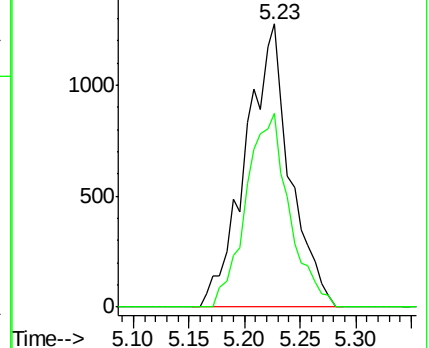
83 100

85 68.7 50.4 75.6



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 44.74 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002794.D

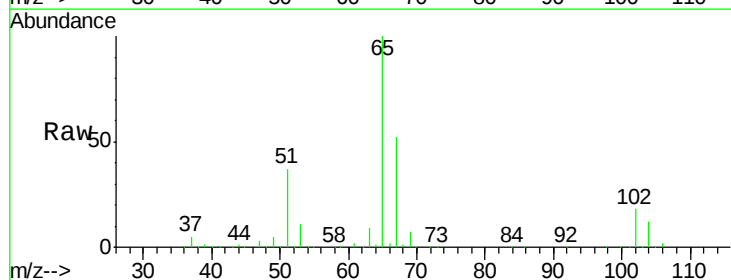
Acq: 21 Jun 2018 17:49

Tgt Ion: 65 Resp: 146713

Ion Ratio Lower Upper

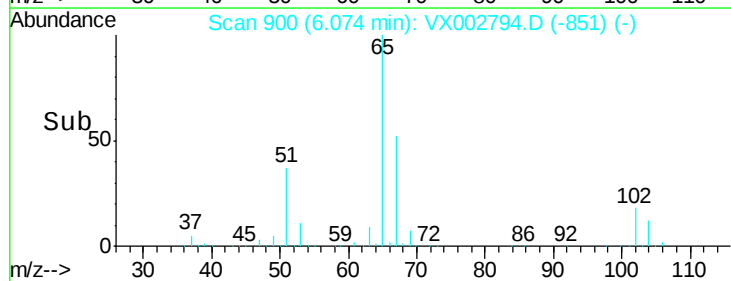
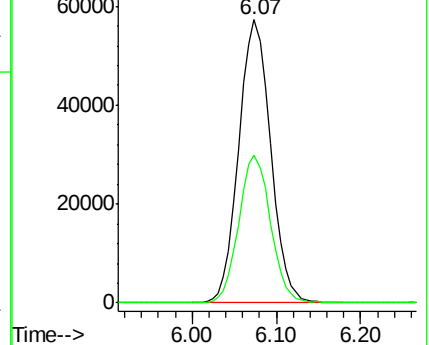
65 100

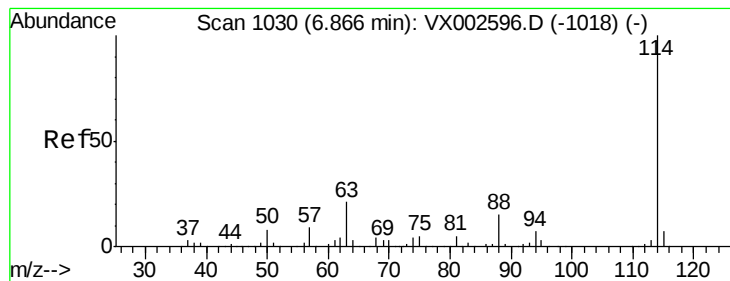
67 52.0 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX002794.D

Acq: 21 Jun 2018 17:49

Instrument :

MSVOA_X

ClientSampleId :

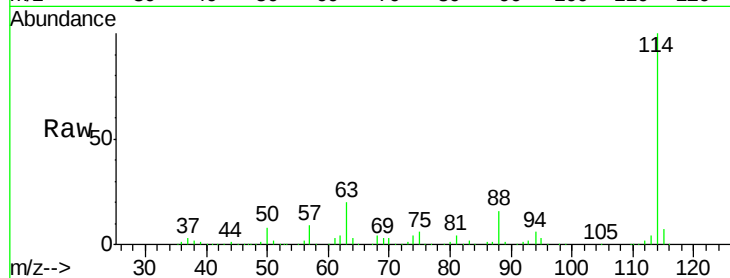
Tot Ion:114 Resp: 302922

Ion Ratio Lower Upper

114 100

63 19.6 0.0 41.4

88 15.5 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

6.87

150000

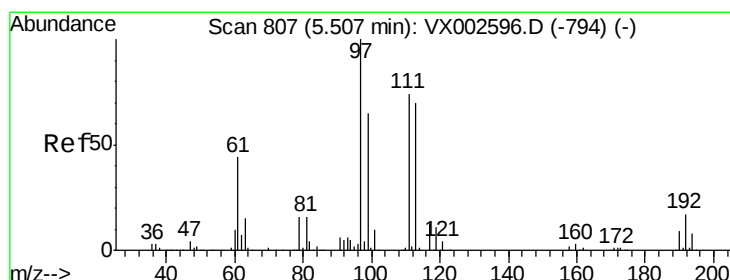
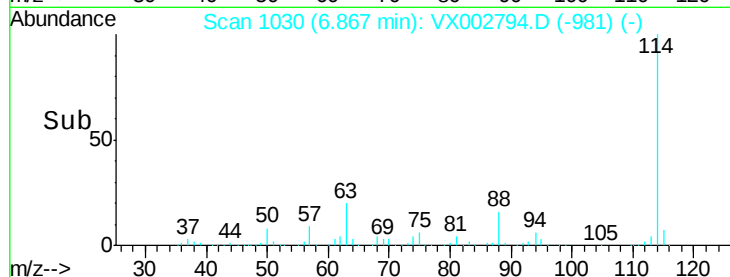
100000

50000

0

Time-->

6.70 6.80 6.90 7.00 7.10



#35

Dibromofluoromethane

Concen: 48.01 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002794.D

Acq: 21 Jun 2018 17:49

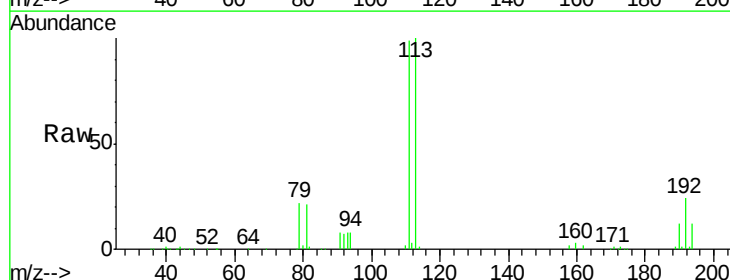
Tgt Ion:113 Resp: 116069

Ion Ratio Lower Upper

113 100

111 101.8 81.4 122.0

192 23.8 19.1 28.7



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

5.51

50000

40000

30000

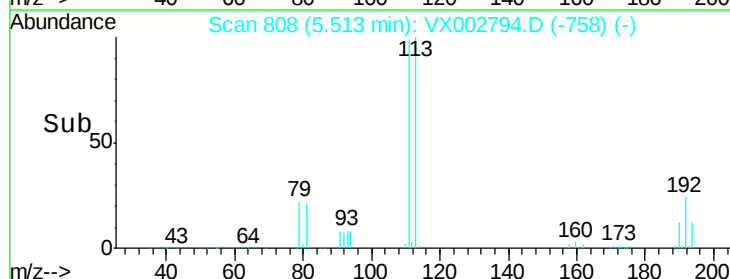
20000

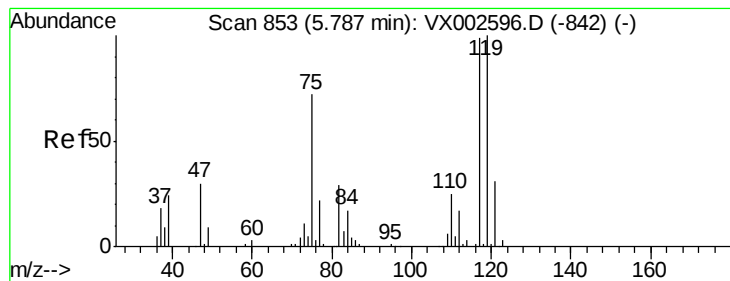
10000

0

Time-->

5.40 5.50 5.60





#38

Carbon Tetrachloride

Concen: 6.27 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002794.D

Acq: 21 Jun 2018 17:49

Instrument :
MSVOA_X
ClientSampled :

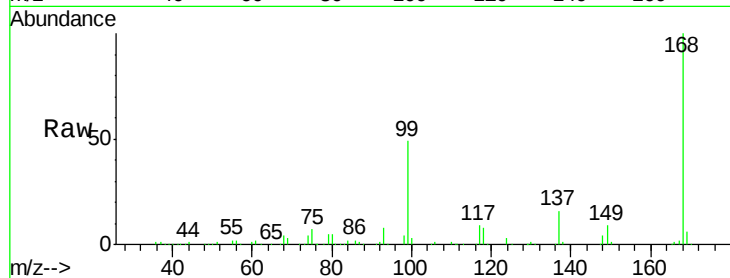
Tot Ion:117 Resp: 20091

Ion Ratio Lower Upper

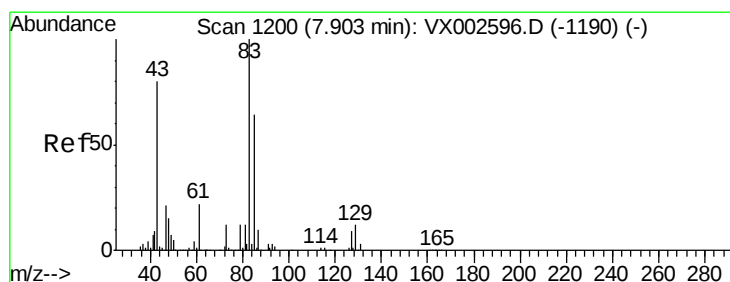
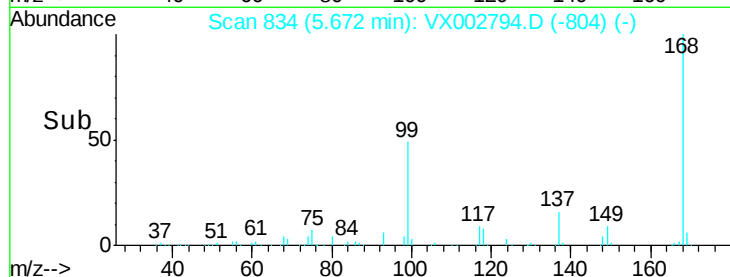
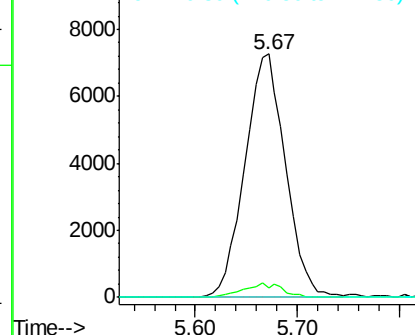
117 100

119 3.9 77.4 116.0#

121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



#47

Bromodichloromethane

Concen: 0.43 ug/l

RT: 7.91 min Scan# 1201

Delta R.T. 0.01 min

Lab File: VX002794.D

Acq: 21 Jun 2018 17:49

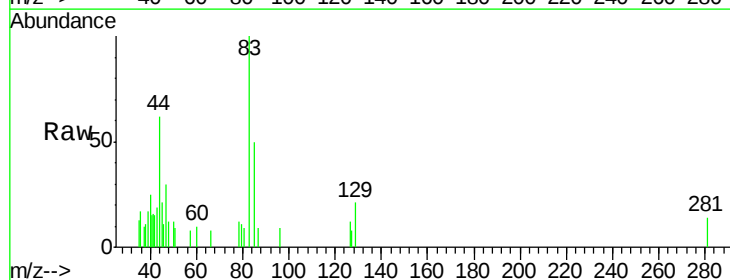
Tgt Ion: 83 Resp: 1290

Ion Ratio Lower Upper

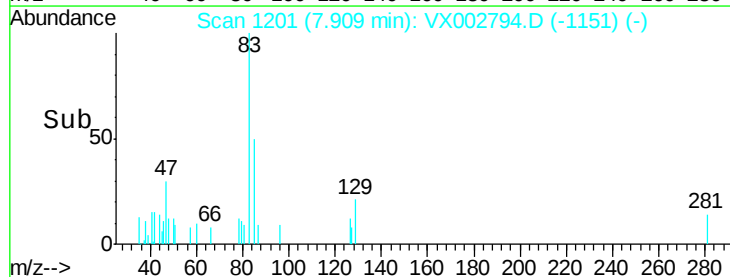
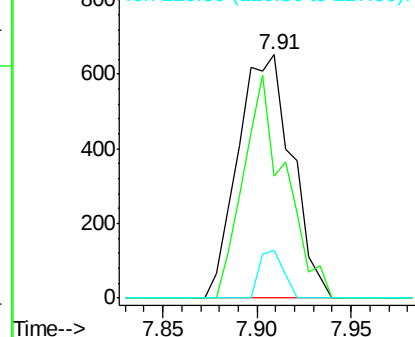
83 100

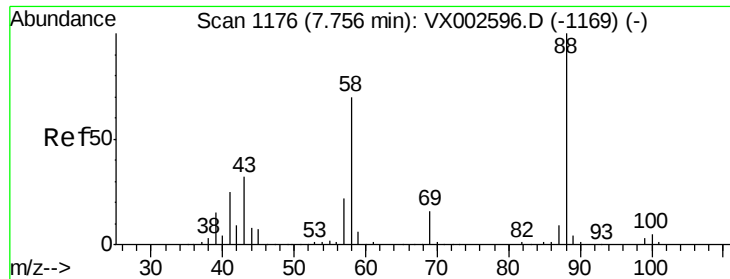
85 50.1 50.3 75.5#

127 19.8 7.0 10.4#



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0
Ion 126.80 (126.50 to 127.50): V

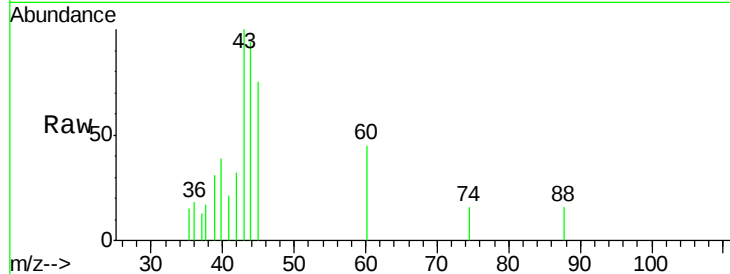




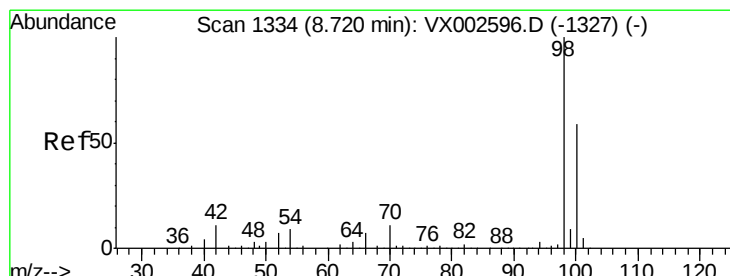
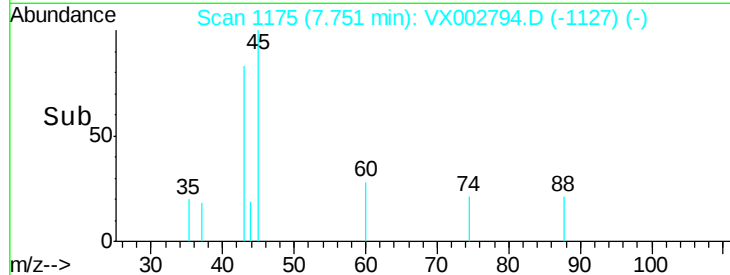
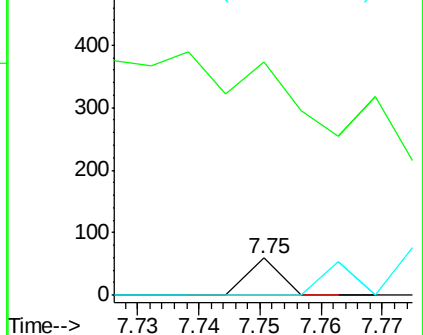
#49
1,4-Dioxane
Concen: 0.38 ug/l
RT: 7.75 min Scan# 1175
Delta R.T. -0.01 min
Lab File: VX002794.D
Acq: 21 Jun 2018 17:49

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 0.0 29.8 44.6#
58 0.0 57.1 85.7#

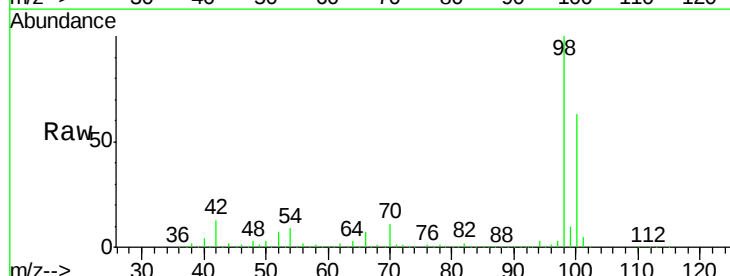


Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

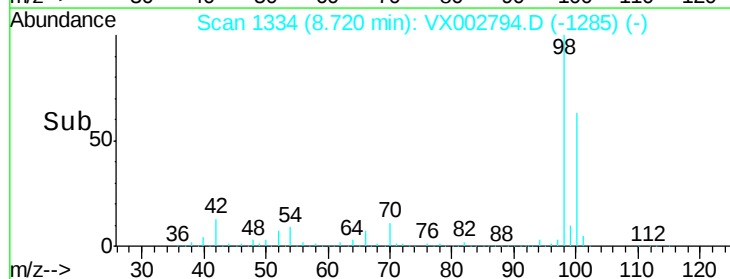
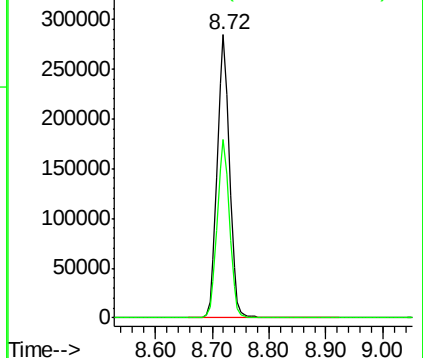


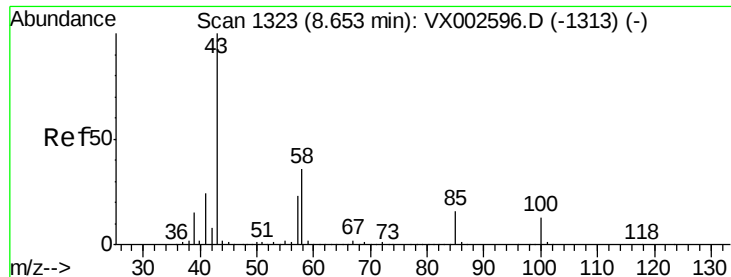
#50
Toluene-d8
Concen: 46.63 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002794.D
Acq: 21 Jun 2018 17:49

Tgt Ion: 98 Resp: 428042
Ion Ratio Lower Upper
98 100
100 63.4 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0

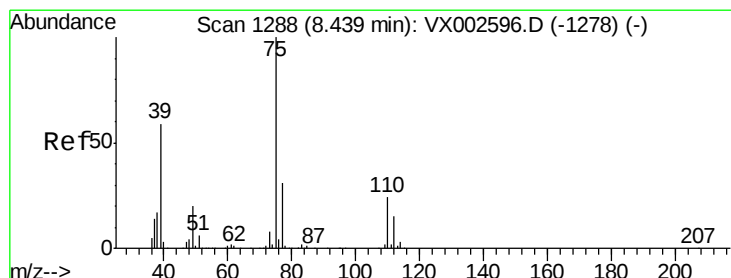
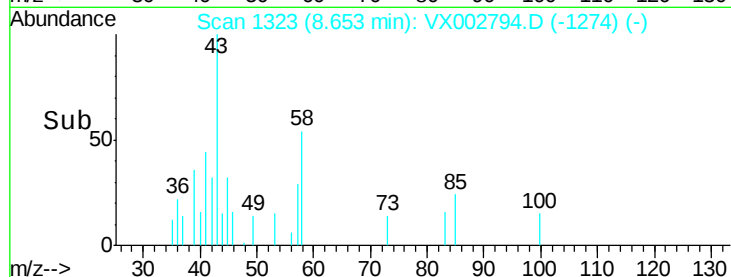
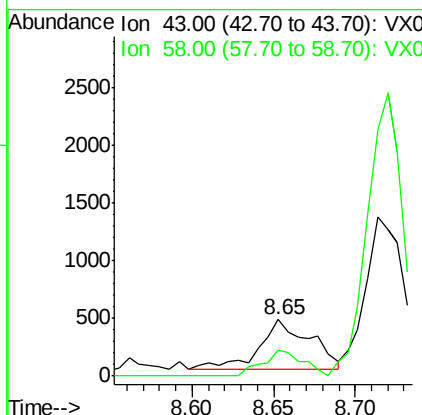
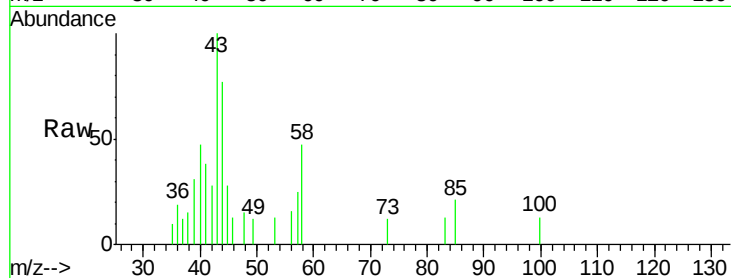




#51
4-Methyl-2-Pentanone
Concen: 0.25 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. 0.00 min
Lab File: VX002794.D
Acq: 21 Jun 2018 17:49

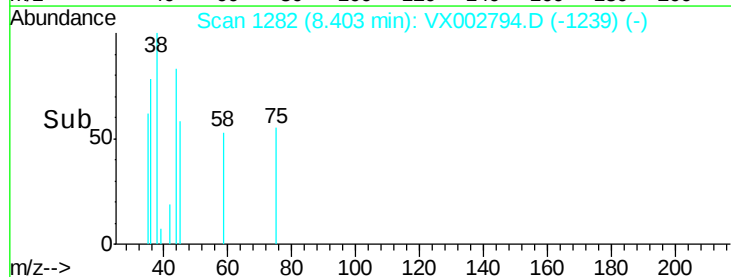
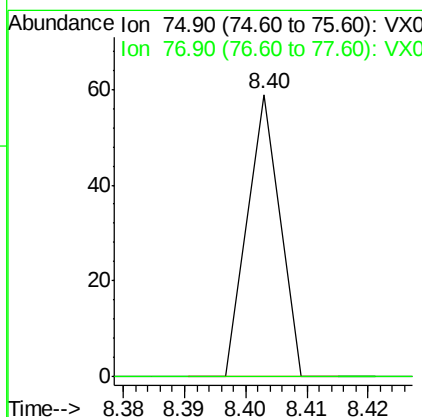
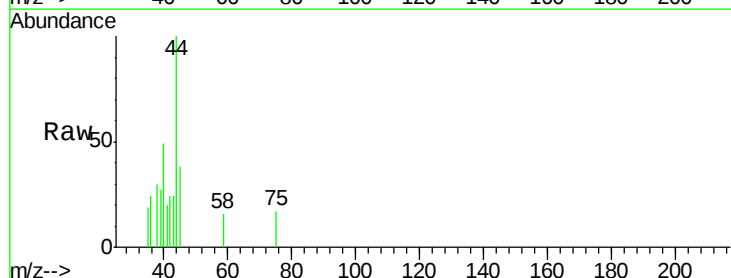
Instrument :
MSVOA_X
ClientSampled :

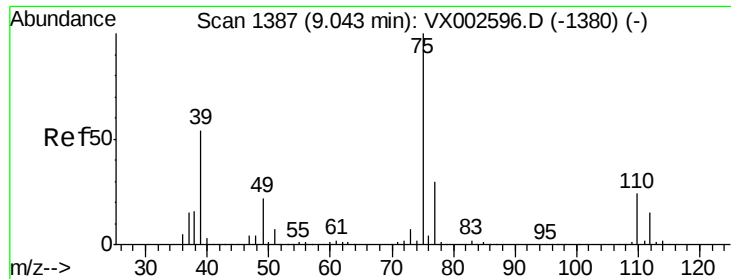
Tot Ion: 43 Resp: 958
Ion Ratio Lower Upper
43 100
58 39.5 28.6 42.8



#53
t-1,3-Dichloropropene
Concen: 2.40 ug/l
RT: 8.40 min Scan# 1282
Delta R.T. -0.04 min
Lab File: VX002794.D
Acq: 21 Jun 2018 17:49

Tgt Ion: 75 Resp: 22
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.2#



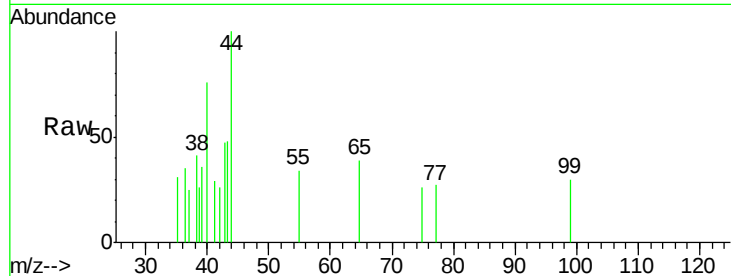


#54

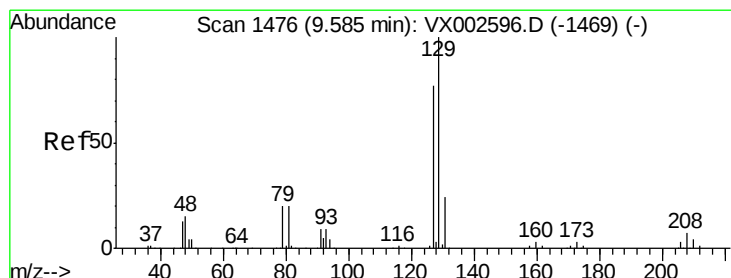
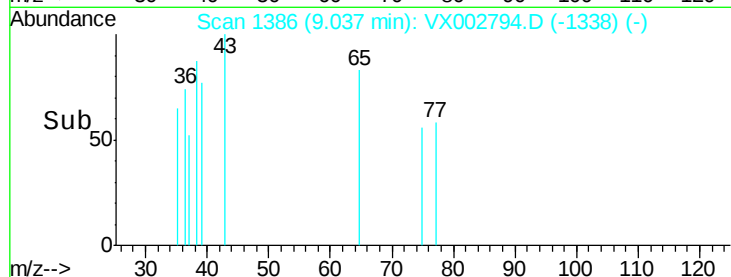
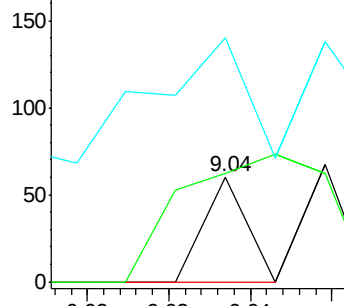
cis-1,3-Dichloropropene
Concen: 3.22 ug/l
RT: 9.04 min Scan# 1386
Delta R.T. -0.01 min
Lab File: VX002794.D
Acq: 21 Jun 2018 17:49

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 75 Resp: 22
Ion Ratio Lower Upper
75 100
77 103.3 24.8 37.2#
39 115.0 42.4 63.6#



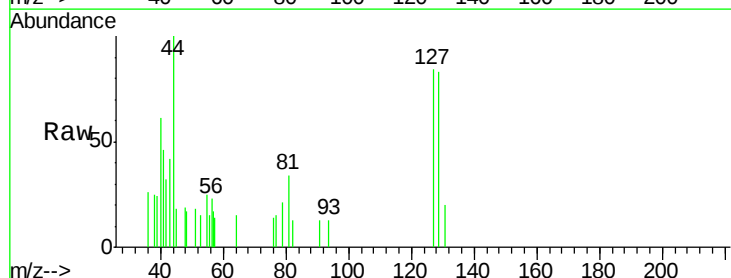
Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0
Ion 39.00 (38.70 to 39.70): VX0



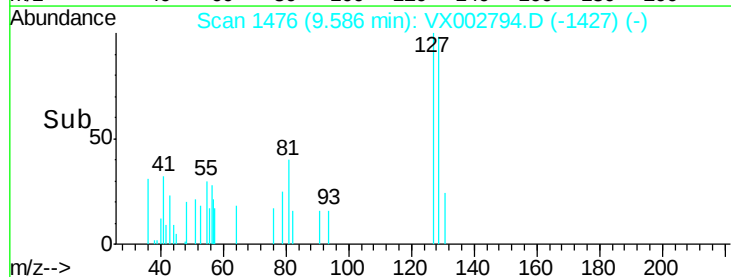
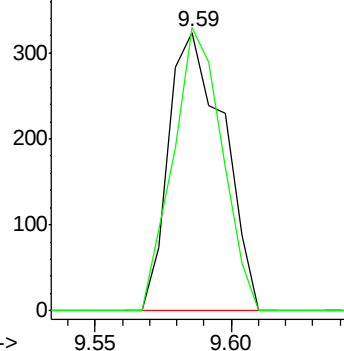
#60

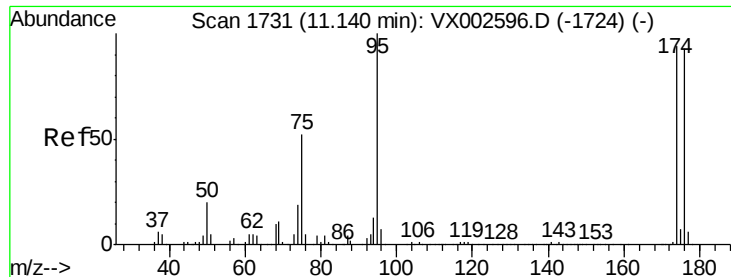
Dibromochloromethane
Concen: 3.91 ug/l
RT: 9.59 min Scan# 1476
Delta R.T. 0.00 min
Lab File: VX002794.D
Acq: 21 Jun 2018 17:49

Tgt Ion:129 Resp: 453
Ion Ratio Lower Upper
129 100
127 90.7 38.5 115.3



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

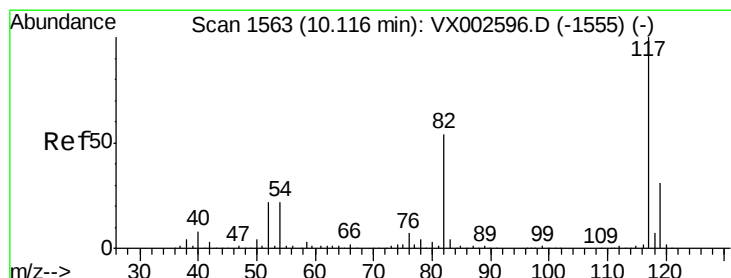
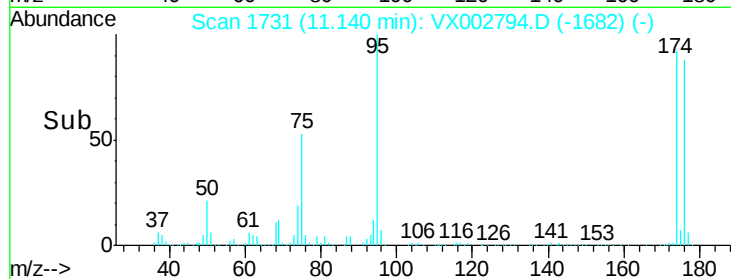
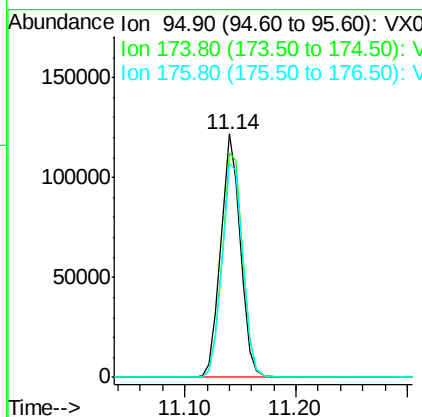
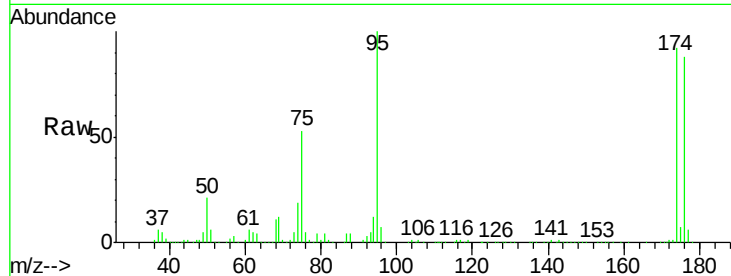




#62
4-Bromofluorobenzene
Concen: 42.65 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002794.D
Acq: 21 Jun 2018 17:49

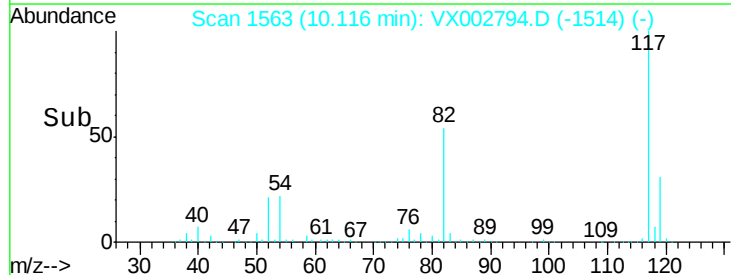
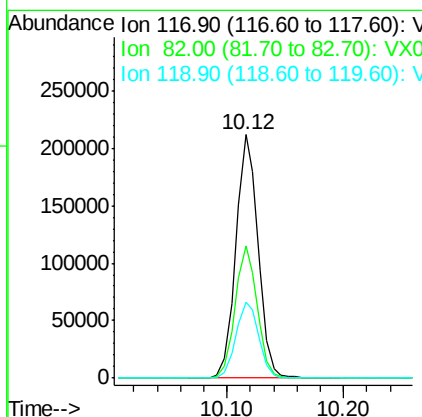
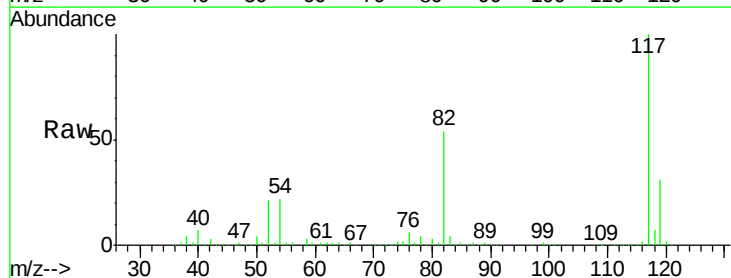
Instrument :
MSVOA_X
ClientSampleId :

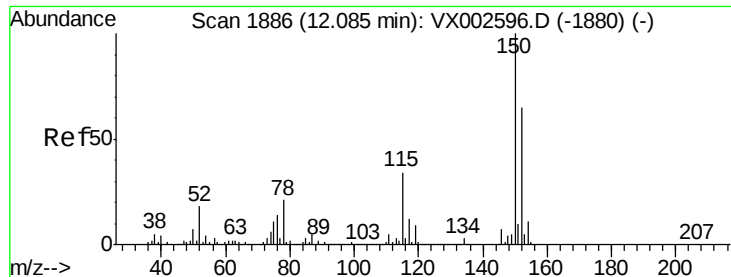
Tot Ion: 95 Resp: 148354
Ion Ratio Lower Upper
95 100
174 97.6 0.0 187.4
176 93.1 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002794.D
Acq: 21 Jun 2018 17:49

Tgt Ion: 117 Resp: 281932
Ion Ratio Lower Upper
117 100
82 54.1 45.0 67.4
119 31.3 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002794.D

Acq: 21 Jun 2018 17:49

Instrument :

MSVOA_X

ClientSampled :

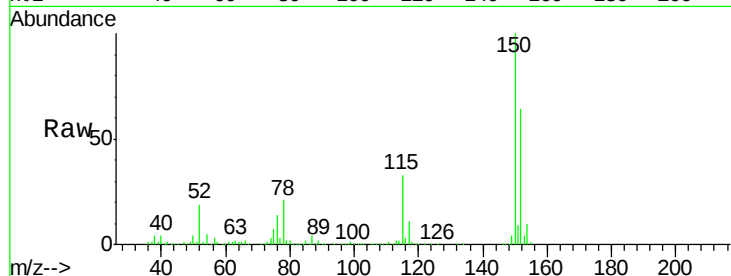
Tot Ion:152 Resp: 158742

Ion Ratio Lower Upper

152 100

115 53.9 40.1 120.2

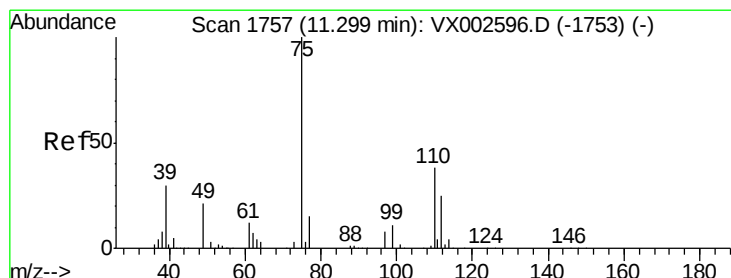
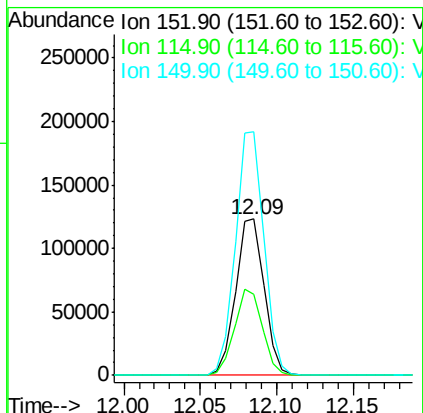
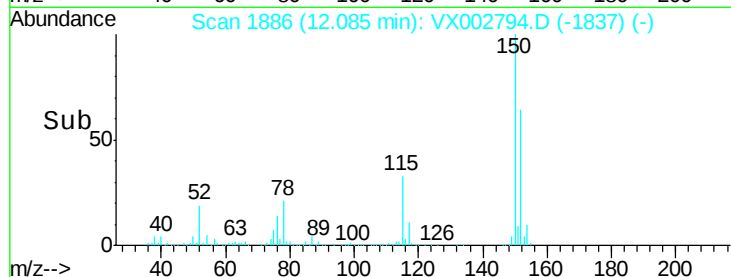
150 156.4 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.63 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002794.D

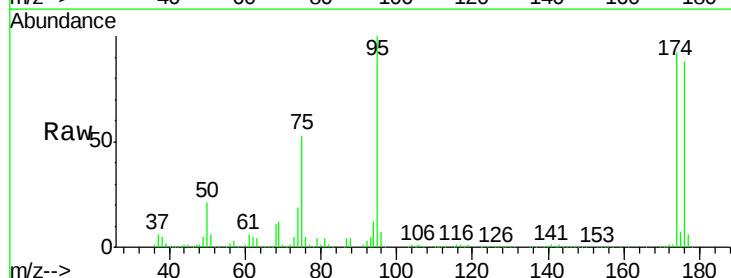
Acq: 21 Jun 2018 17:49

Tgt Ion: 75 Resp: 79760

Ion Ratio Lower Upper

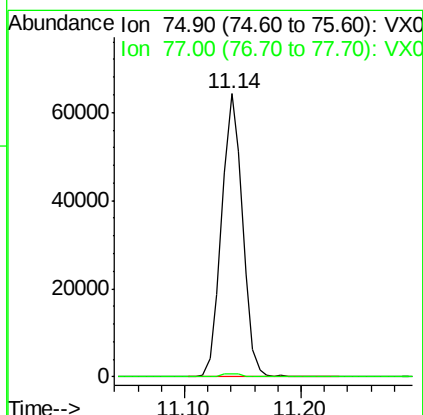
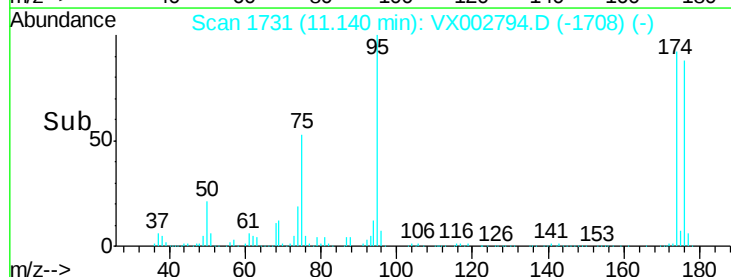
75 100

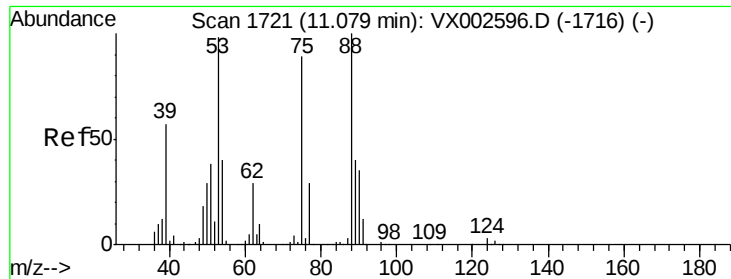
77 1.1 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 82.26 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002794.D

Acq: 21 Jun 2018 17:49

Instrument :

MSVOA_X

ClientSampleId :

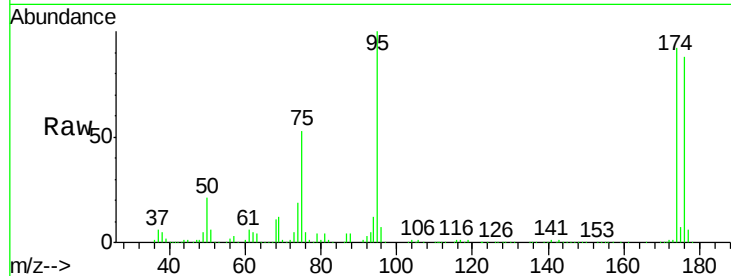
Tot Ion: 75 Resp: 79760

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

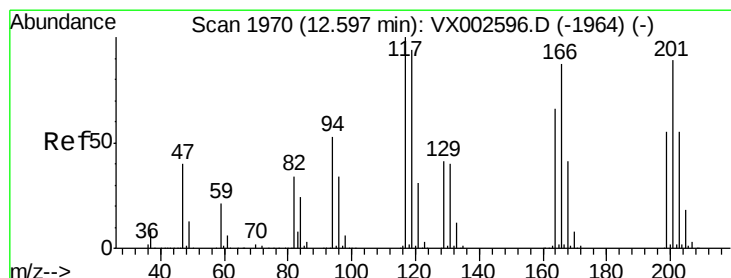
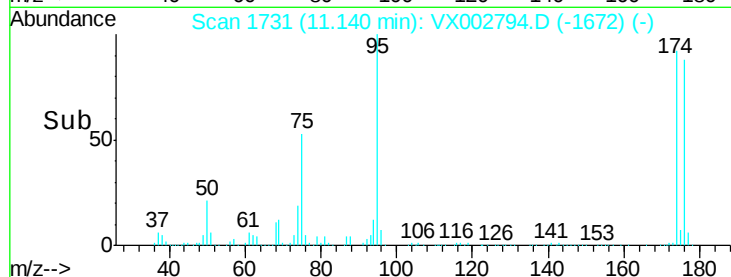
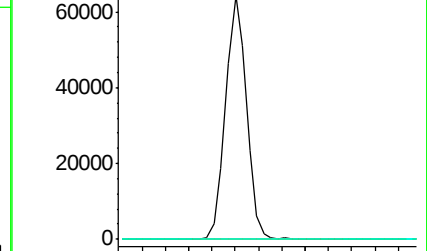
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX002794.D (-1672) (-)

Ion 53.00 (52.70 to 53.70): VX002794.D (-1672) (-)

Ion 88.90 (88.60 to 89.60): VX002794.D (-1672) (-)



#90

Hexachloroethane

Concen: 2.68 ug/l

RT: 12.67 min Scan# 1982

Delta R.T. 0.07 min

Lab File: VX002794.D

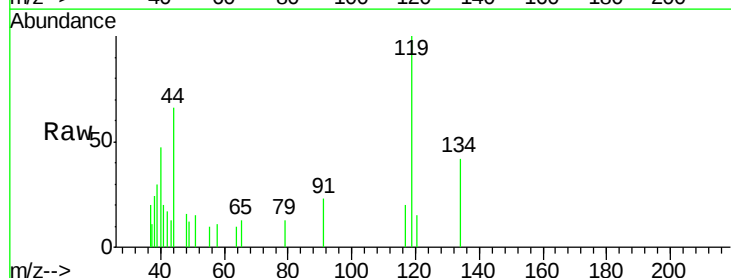
Acq: 21 Jun 2018 17:49

Tgt Ion: 117 Resp: 95

Ion Ratio Lower Upper

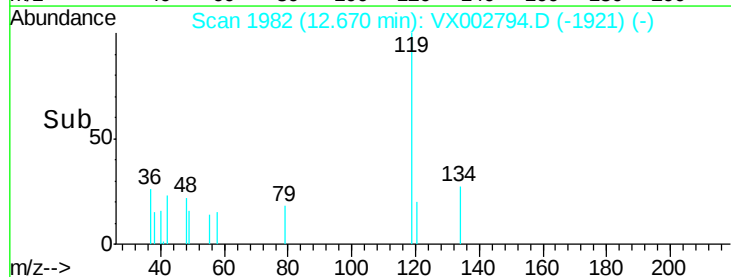
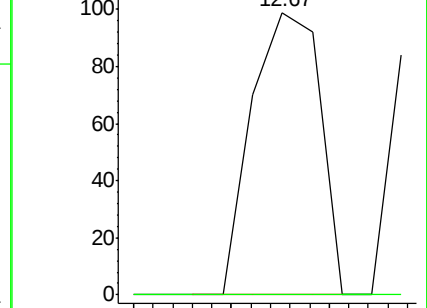
117 100

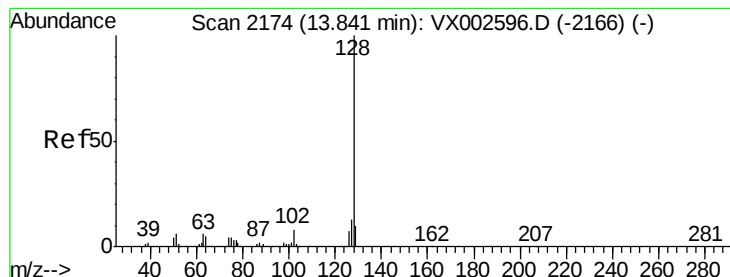
201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): VX002794.D (-1921) (-)

Ion 200.70 (200.40 to 201.40): VX002794.D (-1921) (-)





#95

Naphthalene

Concen: 2.63 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

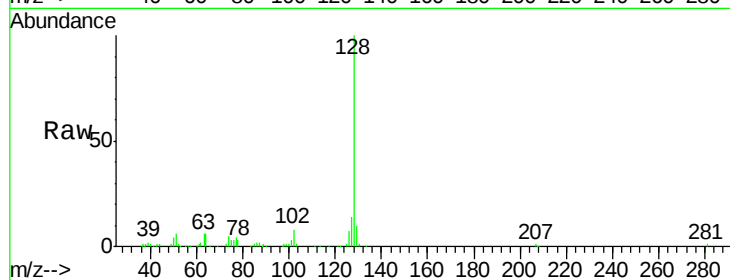
Lab File: VX002794.D

Acq: 21 Jun 2018 17:49

Instrument :

MSVOA_X

ClientSampleId :



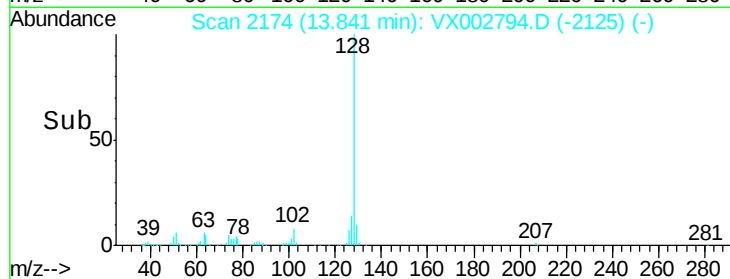
Tot Ion:128 Resp: 27993

Ion Ratio Lower Upper

128 100

127 13.5 10.4 15.6

129 11.3 8.6 13.0



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

