

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002820.D
 Acq On : 22 Jun 2018 06:12
 Operator : JC/MD
 Sample : J3246-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OK-01-062018

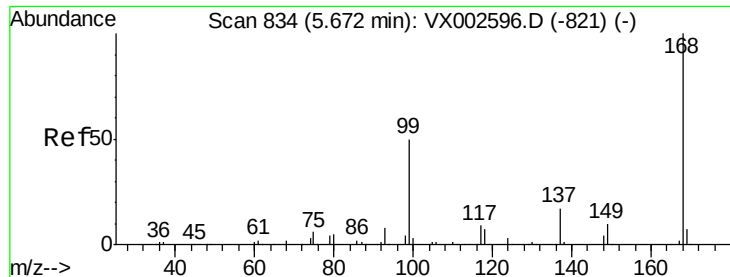
Quant Time: Jun 22 06:39:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	250885	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	354828	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	330798	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	192858	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	171427	44.96	ug/l	0.00
Spiked Amount			Recovery	=	89.92%	
35) Dibromofluoromethane	5.51	113	134854	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	
50) Toluene-d8	8.72	98	495346	46.07	ug/l	0.00
Spiked Amount			Recovery	=	92.14%	
62) 4-Bromofluorobenzene	11.14	95	182565	44.81	ug/l	0.00
Spiked Amount			Recovery	=	89.62%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.67	94	885	0.45	ug/l #	73
6) Chloroethane	1.76	64	460	0.21	ug/l #	72
8) Diethyl Ether	2.18	74	929	0.46	ug/l	62
10) Methyl Iodide	2.51	142	1079	5.42	ug/l #	91
11) Tert butyl alcohol	3.03	59	1625	2.06	ug/l #	94
13) Acrolein	2.27	56	87	7.09	ug/l #	64
16) Acetone	2.45	43	10011	5.95	ug/l	96
17) Carbon Disulfide	2.57	76	1905	0.29	ug/l #	83
18) Methyl Acetate	2.78	43	22400	5.00	ug/l	97
20) Methylene Chloride	2.86	84	7764	2.25	ug/l	93
25) 2-Butanone	4.72	43	2918	1.32	ug/l	96
29) Tetrahydrofuran	5.19	42	961	0.66	ug/l #	71
30) Chloroform	5.21	83	2602	0.49	ug/l #	80
31) Cyclohexane	5.67	56	5094	1.13	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	17313	4.59	ug/l #	52
38) Carbon Tetrachloride	5.67	117	23192	6.18	ug/l #	15
47) Bromodichloromethane	7.90	83	1141	0.33	ug/l #	75
51) 4-Methyl-2-Pentanone	8.65	43	1076	0.24	ug/l	97
54) cis-1,3-Dichloropropene	9.04	75	19	3.22	ug/l #	32
60) Dibromochloromethane	9.59	129	340	3.86	ug/l	89
65) Chlorobenzene	10.15	112	1996	0.25	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	95288	26.18	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	95288	80.96	ug/l #	7
90) Hexachloroethane	12.68	117	134	2.69	ug/l #	1
95) Naphthalene	13.84	128	16670	1.29	ug/l #	95

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002820.D

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MSVOA_X

ClientSampleId :

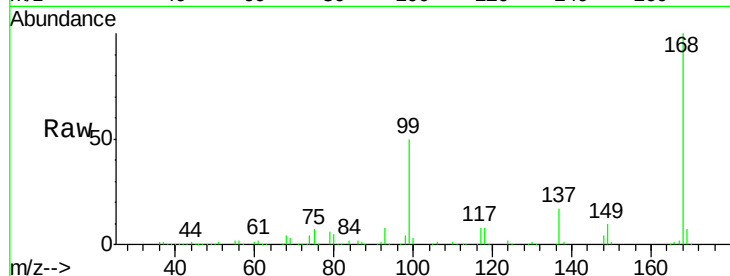
OK-01-062018

Tot Ion:168 Resp: 250885

Ion Ratio Lower Upper

168 100

99 50.0 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

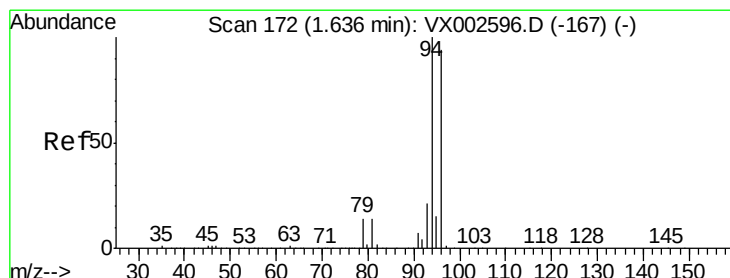
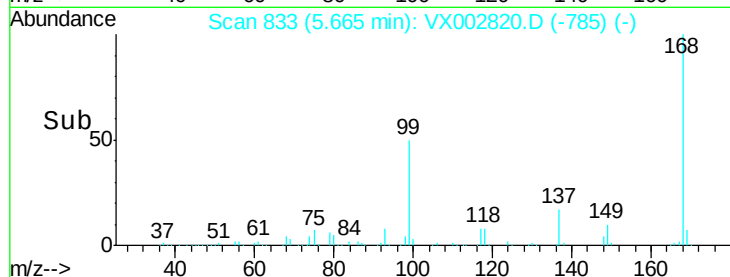
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.45 ug/l

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX002820.D

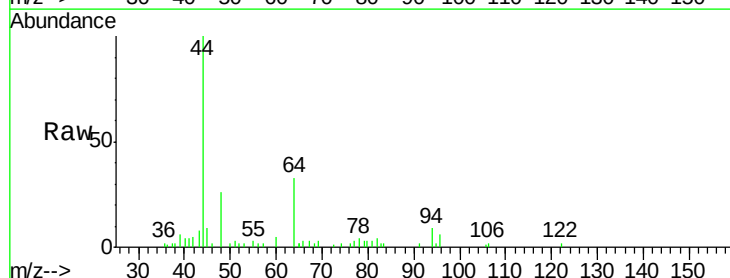
Acq: 22 Jun 2018 06:12

Tgt Ion: 94 Resp: 885

Ion Ratio Lower Upper

94 100

96 67.8 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.67

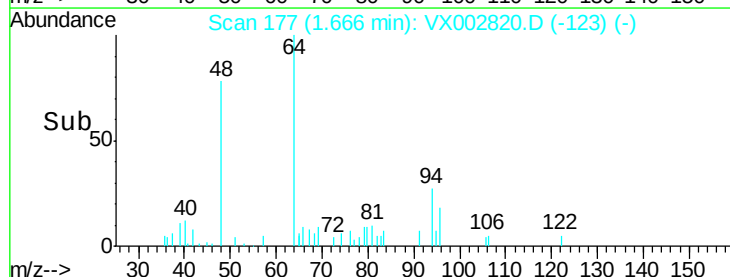
300

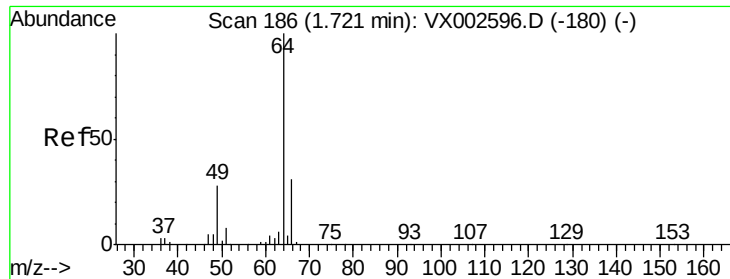
200

100

0

Time--> 1.60 1.65 1.70 1.75





#6

Chloroethane

Concen: 0.21 ug/l

RT: 1.76 min Scan# 192

Delta R.T. 0.04 min

Lab File: VX002820.D

Acq: 22 Jun 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

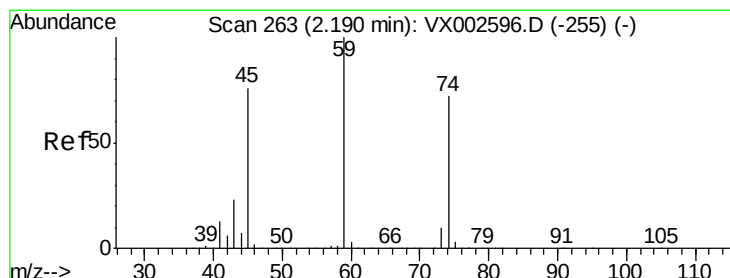
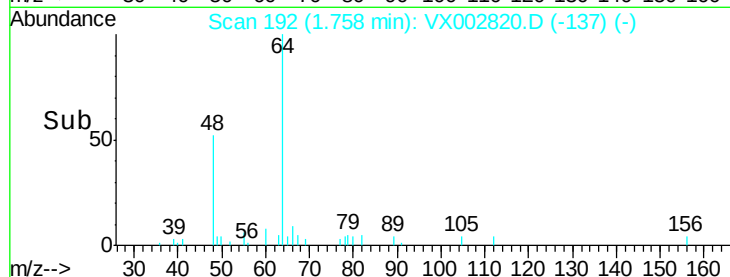
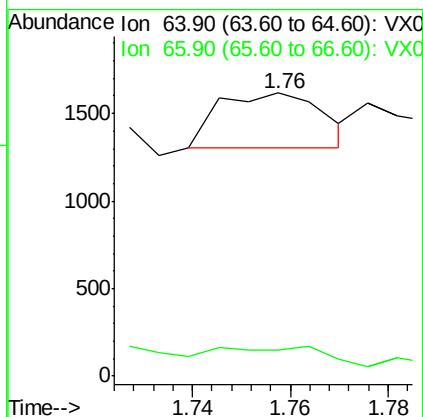
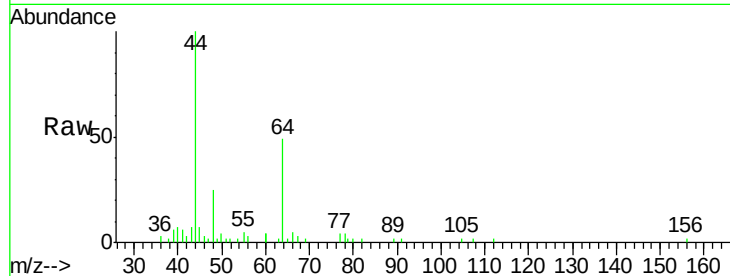
OK-01-062018

Tot Ion: 64 Resp: 460

Ion Ratio Lower Upper

64 100

66 16.4 25.5 38.3#



#8

Diethyl Ether

Concen: 0.46 ug/l

RT: 2.18 min Scan# 262

Delta R.T. -0.01 min

Lab File: VX002820.D

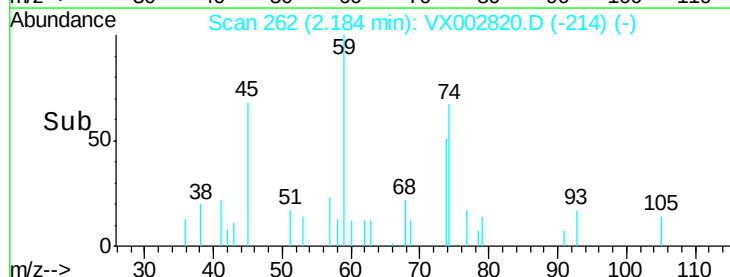
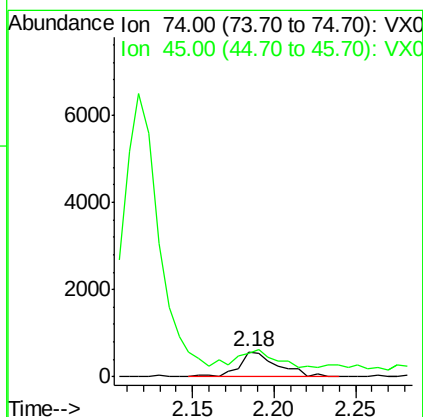
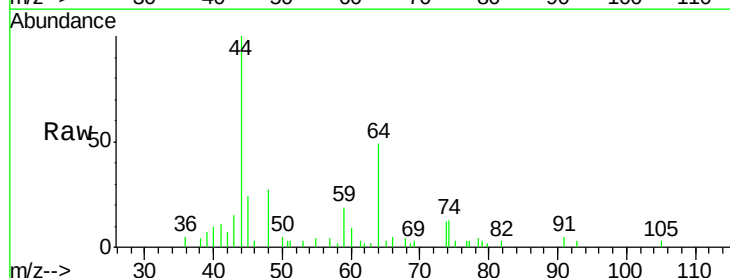
Acq: 22 Jun 2018 06:12

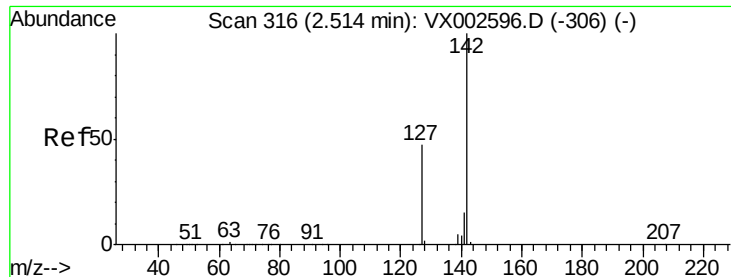
Tgt Ion: 74 Resp: 929

Ion Ratio Lower Upper

74 100

45 67.0 53.1 159.4





#10

Methvl Iodide

Concen: 5.42 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX002820.D

Acq: 22 Jun 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

OK-01-062018

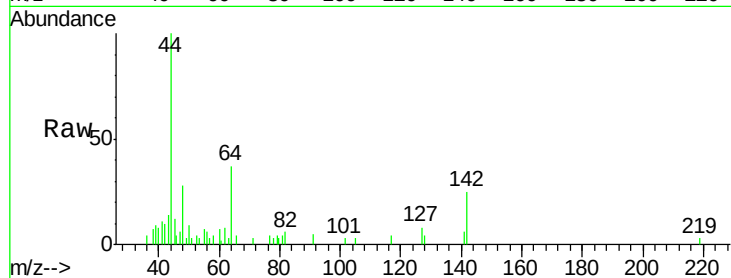
Tot Ion:142 Resp: 1079

Ion Ratio Lower Upper

142 100

127 45.0 36.6 55.0

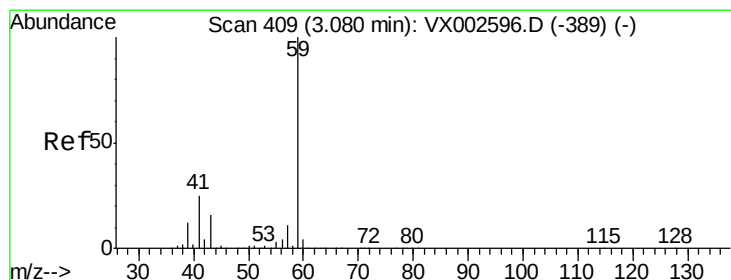
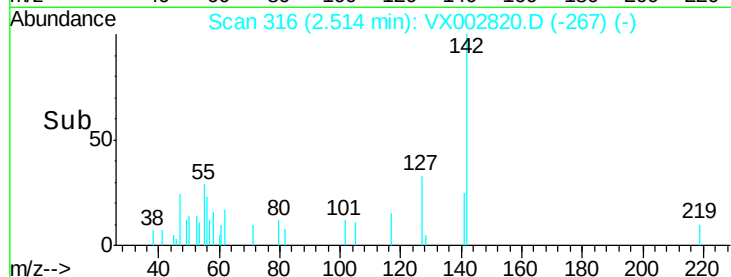
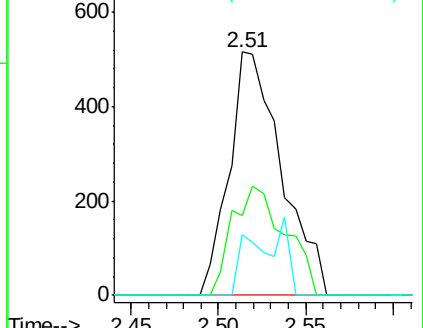
141 0.0 11.3 16.9#



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



#11

Tert butyl alcohol

Concen: 2.06 ug/l

RT: 3.03 min Scan# 400

Delta R.T. -0.05 min

Lab File: VX002820.D

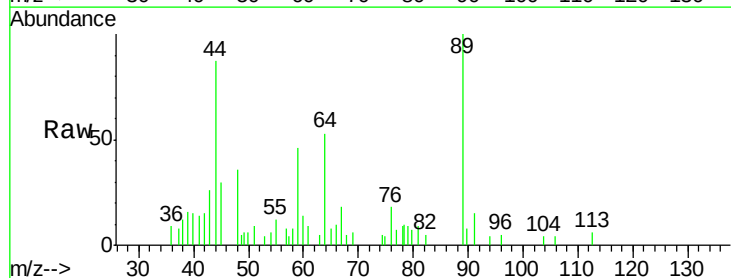
Acq: 22 Jun 2018 06:12

Tgt Ion: 59 Resp: 1625

Ion Ratio Lower Upper

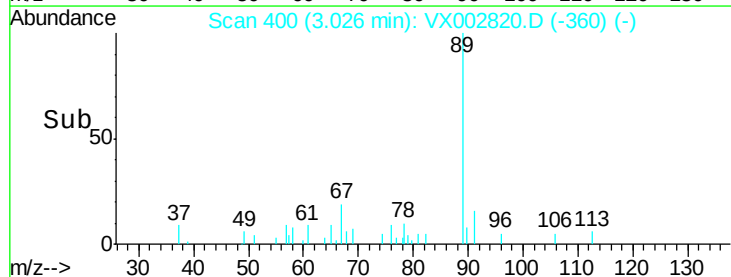
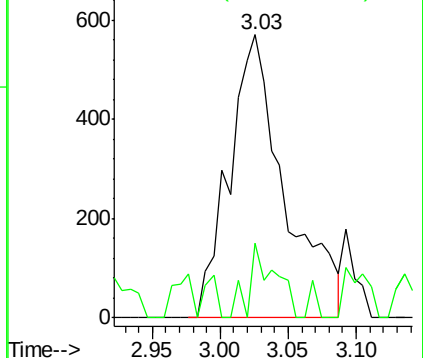
59 100

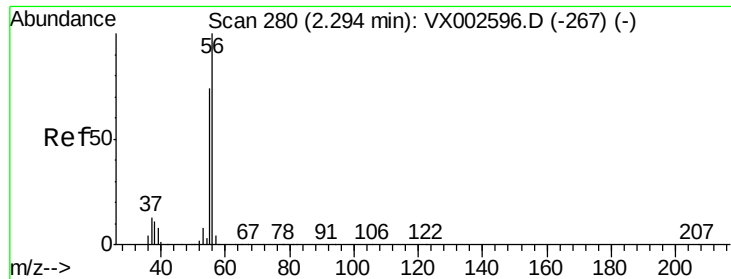
57 12.6 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 7.09 ug/l

RT: 2.27 min Scan# 276

Delta R.T. -0.02 min

Lab File: VX002820.D

Acq: 22 Jun 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

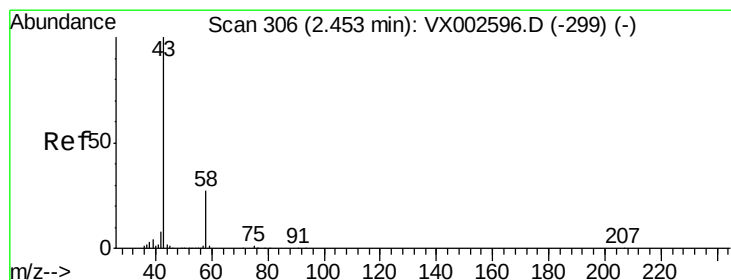
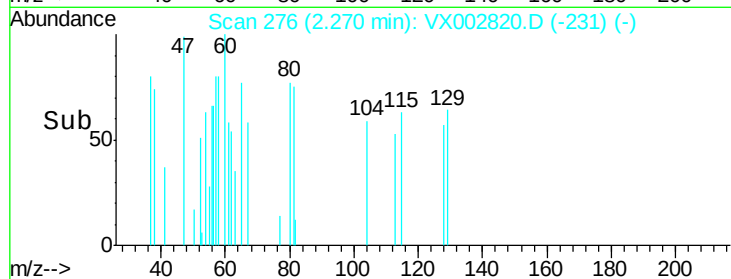
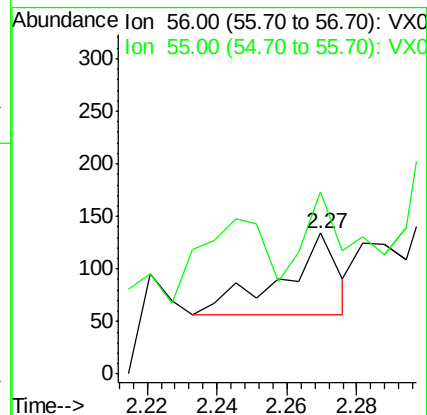
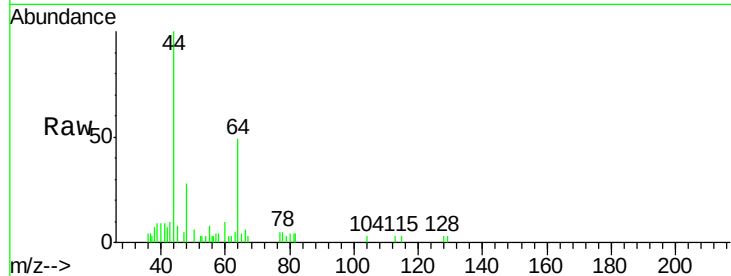
OK-01-062018

Tot Ion: 56 Resp: 87

Ion Ratio Lower Upper

56 100

55 101.1 57.0 85.4#



#16

Acetone

Concen: 5.95 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002820.D

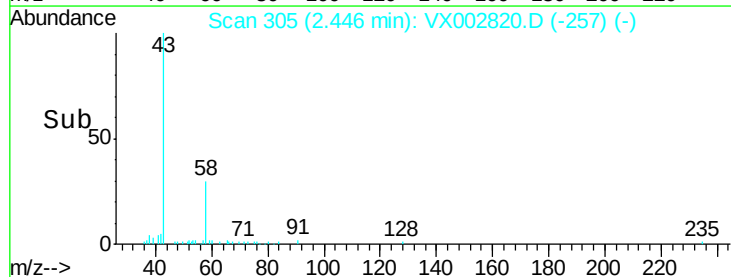
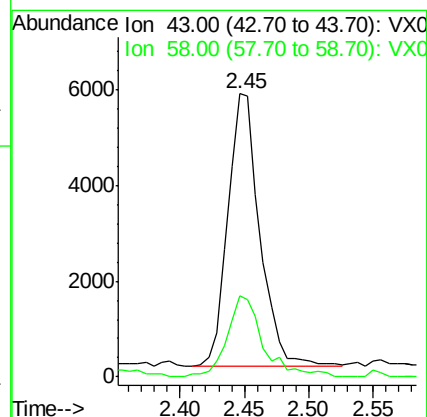
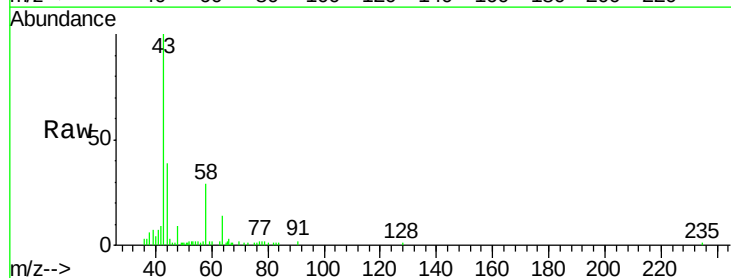
Acq: 22 Jun 2018 06:12

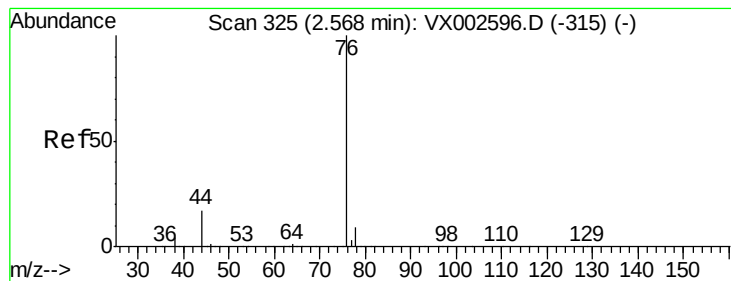
Tgt Ion: 43 Resp: 10011

Ion Ratio Lower Upper

43 100

58 29.6 22.1 33.1





#17

Carbon Disulfide

Concen: 0.29 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002820.D

Acq: 22 Jun 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

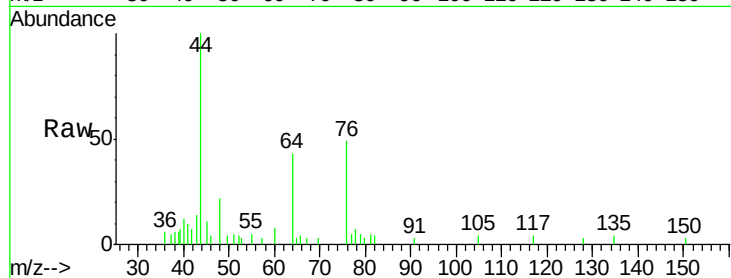
OK-01-062018

Tot Ion: 76 Resp: 1905

Ion Ratio Lower Upper

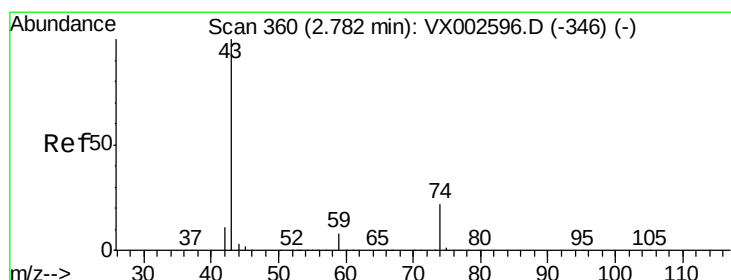
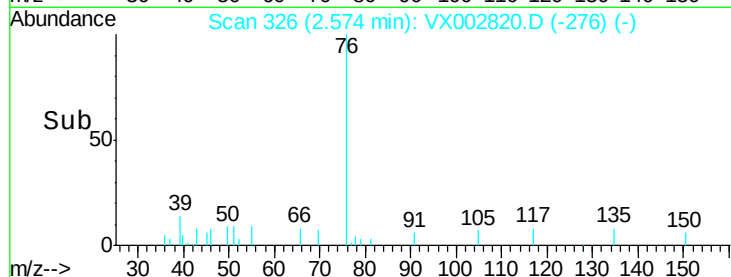
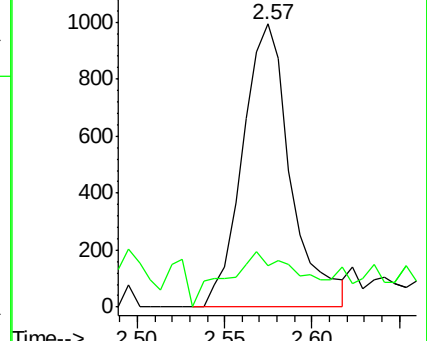
76 100

78 14.8 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 5.00 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002820.D

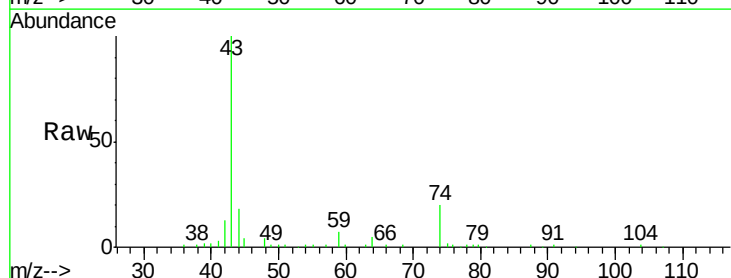
Acq: 22 Jun 2018 06:12

Tgt Ion: 43 Resp: 22400

Ion Ratio Lower Upper

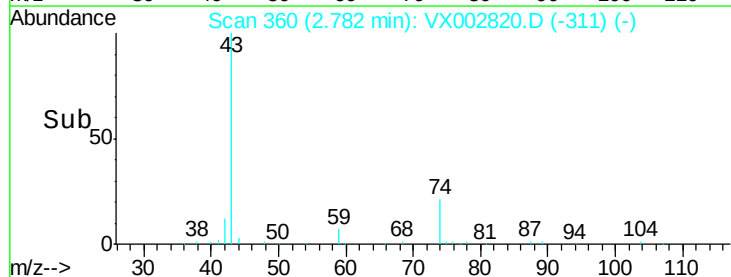
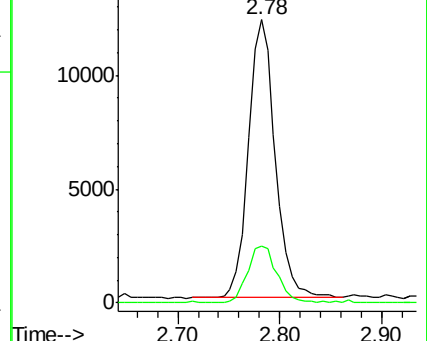
43 100

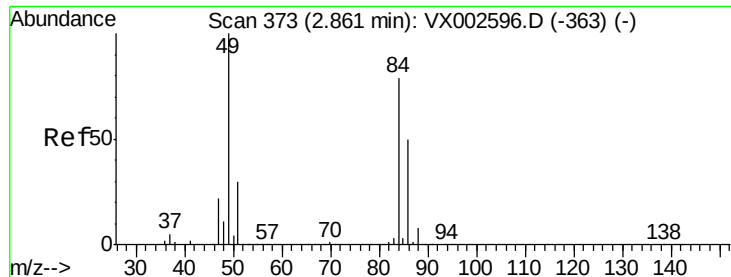
74 22.4 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

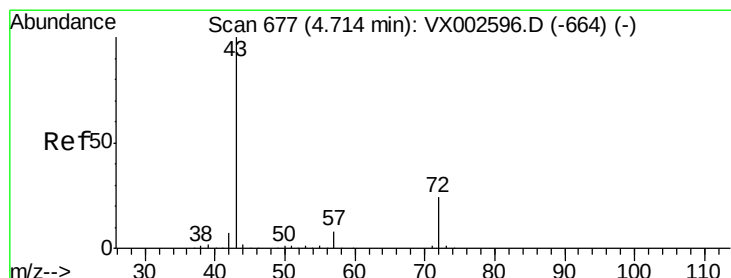
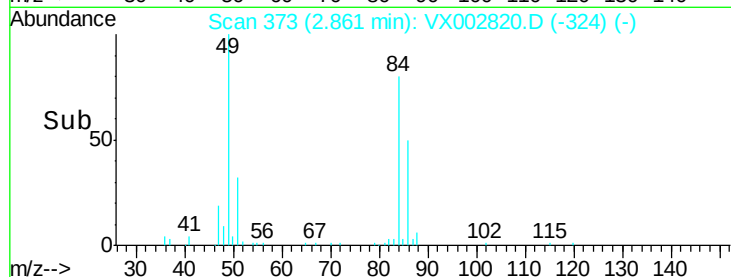
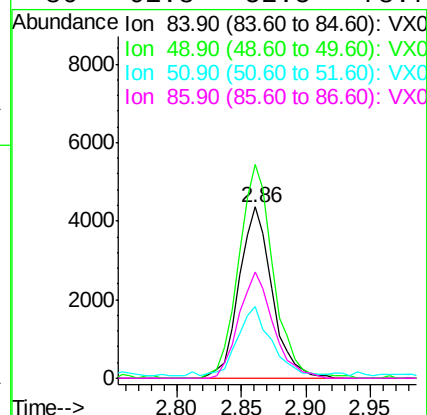
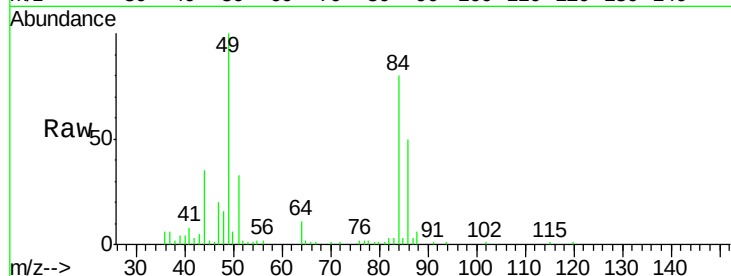




#20
Methvlene Chloride
Concen: 2.25 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX002820.D
Acq: 22 Jun 2018 06:12

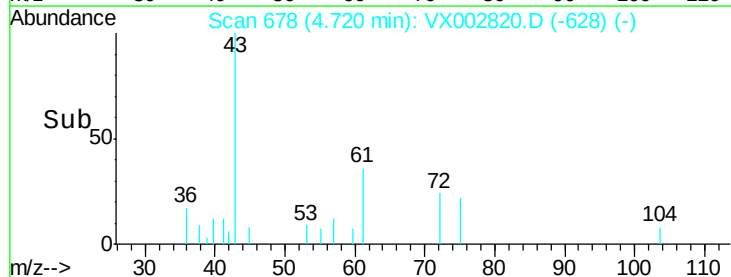
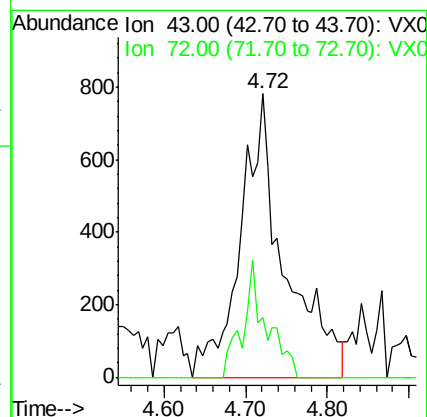
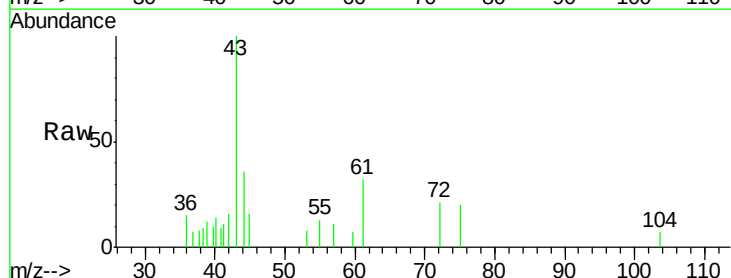
Instrument :
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OK-01-062018

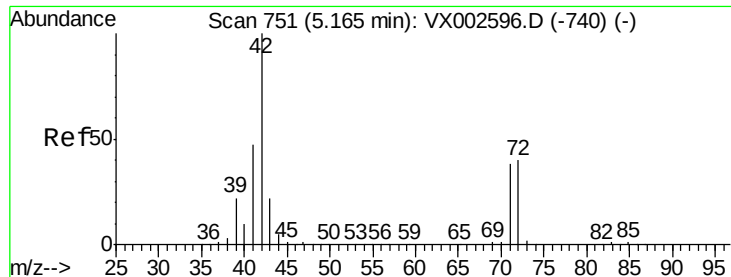
Tot Ion: 84 Resp: 7764
Ion Ratio Lower Upper
84 100
49 124.7 107.8 161.6
51 38.4 32.8 49.2
86 61.8 52.5 78.7



#25
2-Butanone
Concen: 1.32 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX002820.D
Acq: 22 Jun 2018 06:12

Tgt Ion: 43 Resp: 2918
Ion Ratio Lower Upper
43 100
72 21.2 18.5 27.7

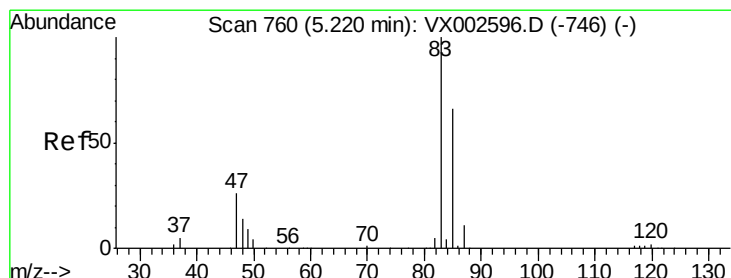
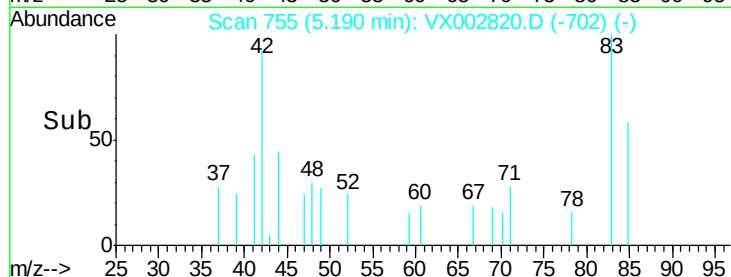
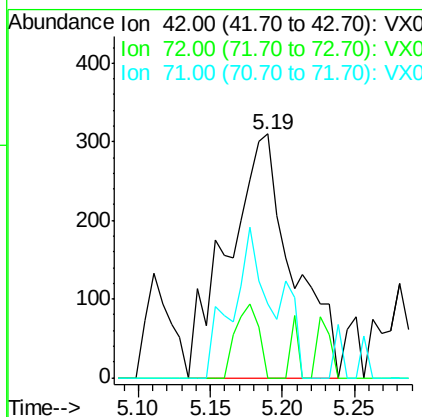
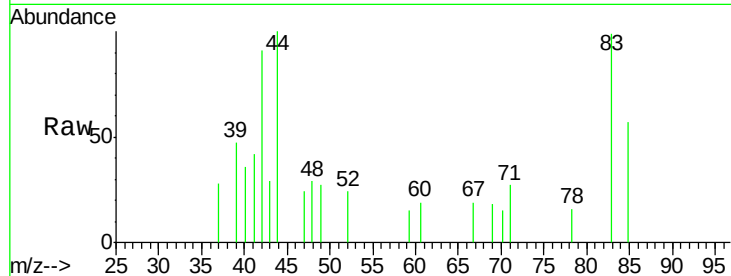




#29
Tetrahydrofuran
Concen: 0.66 ug/l
RT: 5.19 min Scan# 755
Delta R.T. 0.02 min
Lab File: VX002820.D
Acq: 22 Jun 2018 06:12

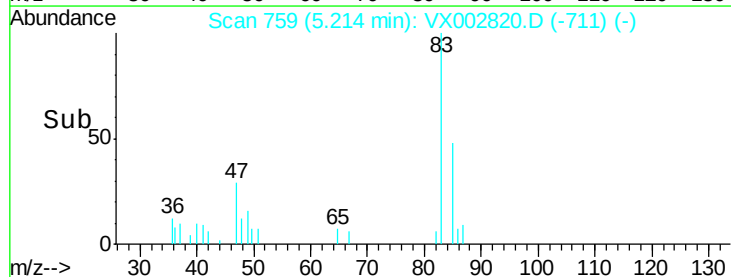
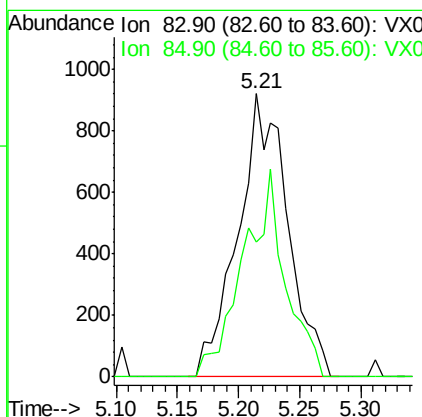
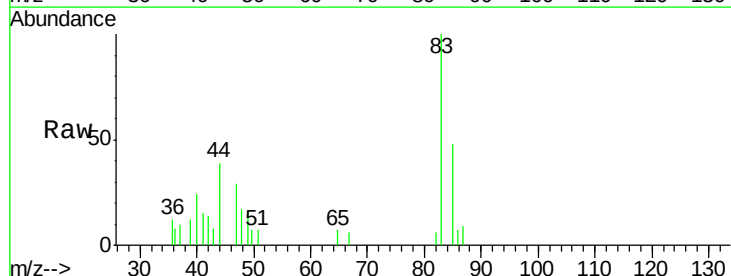
Instrument :
MSVOA_X
ClientSampled :
OK-01-062018

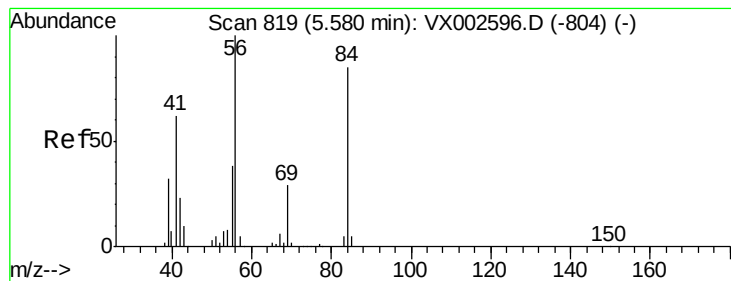
Tot Ion: 42 Resp: 961
Ion Ratio Lower Upper
42 100
72 11.0 32.0 48.0#
71 31.9 30.1 45.1



#30
Chloroform
Concen: 0.49 ug/l
RT: 5.21 min Scan# 759
Delta R.T. -0.01 min
Lab File: VX002820.D
Acq: 22 Jun 2018 06:12

Tgt Ion: 83 Resp: 2602
Ion Ratio Lower Upper
83 100
85 47.7 50.4 75.6#





#31

Cyclohexane

Concen: 1.13 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.09 min

Lab File: VX002820.D

Acq: 22 Jun 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

OK-01-062018

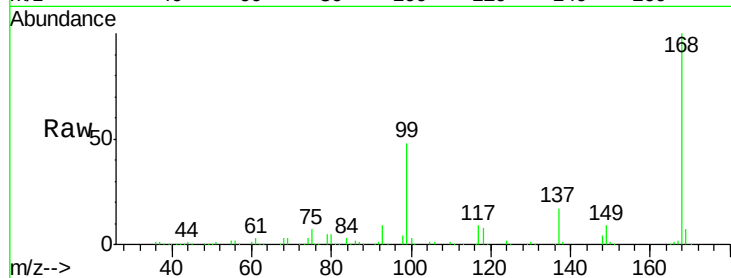
Tot Ion: 56 Resp: 5094

Ion Ratio Lower Upper

56 100

69 153.0 23.7 35.5#

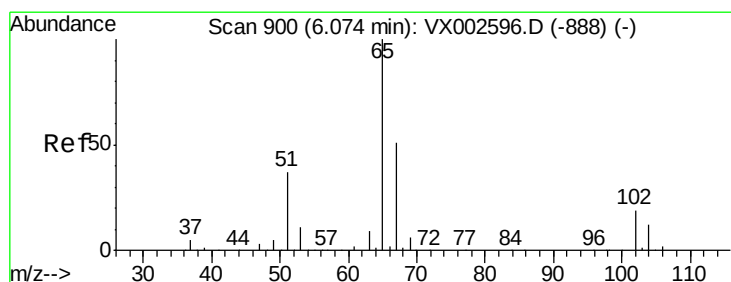
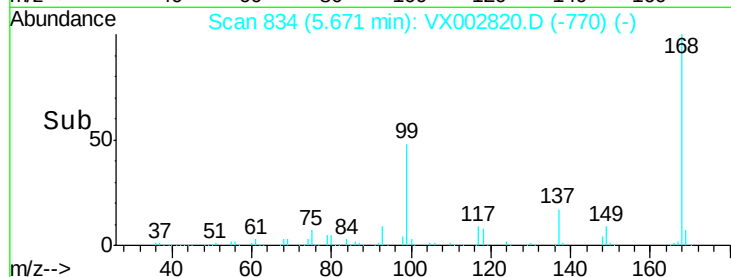
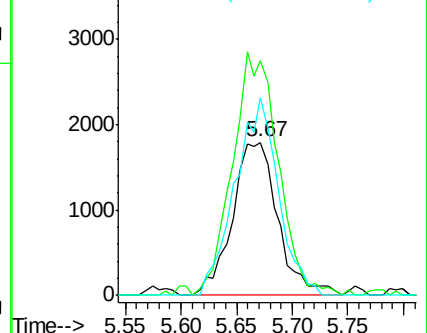
84 133.1 64.1 96.1#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 44.96 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002820.D

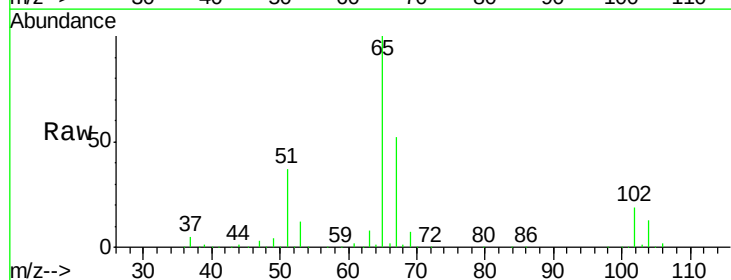
Acq: 22 Jun 2018 06:12

Tgt Ion: 65 Resp: 171427

Ion Ratio Lower Upper

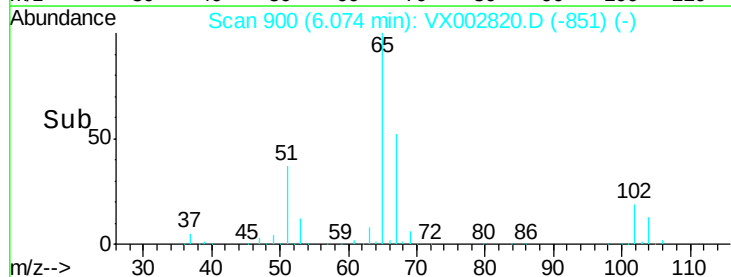
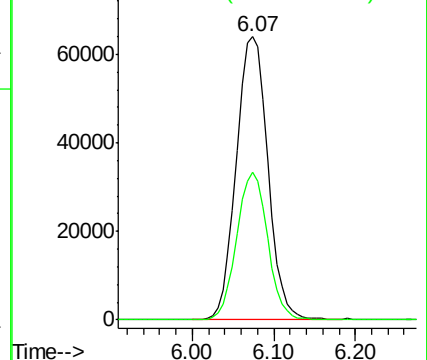
65 100

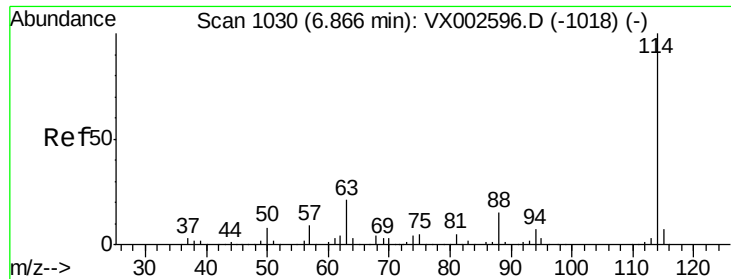
67 51.0 0.0 102.6



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: VX002820.D

Acq: 22 Jun 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

OK-01-062018

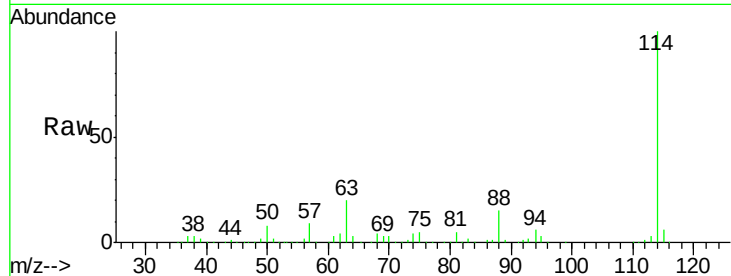
Tot Ion:114 Resp: 354828

Ion Ratio Lower Upper

114 100

63 20.1 0.0 41.4

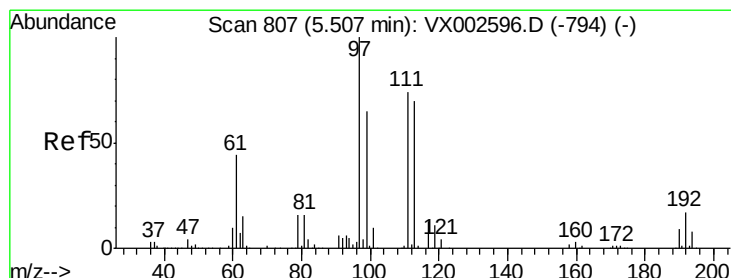
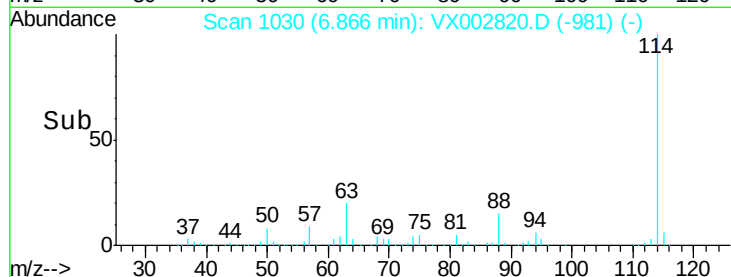
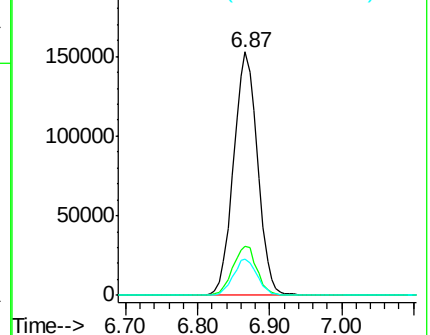
88 14.9 0.0 30.0



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



#35

Dibromofluoromethane

Concen: 47.62 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002820.D

Acq: 22 Jun 2018 06:12

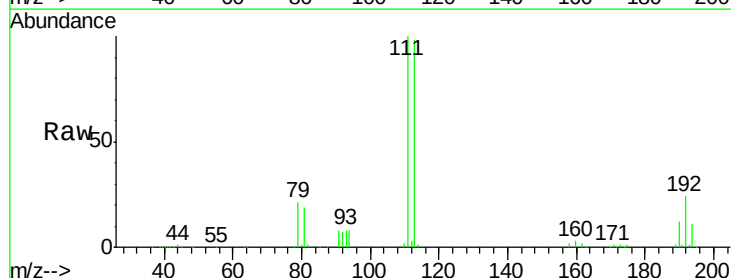
Tgt Ion:113 Resp: 134854

Ion Ratio Lower Upper

113 100

111 101.2 81.4 122.0

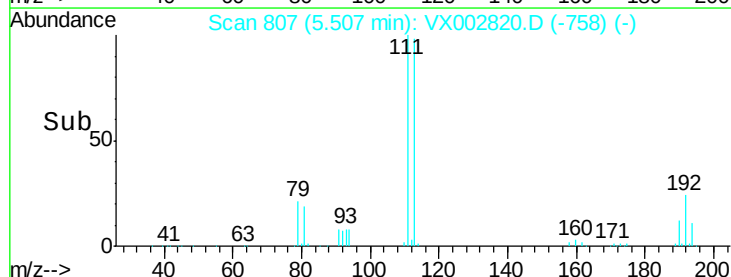
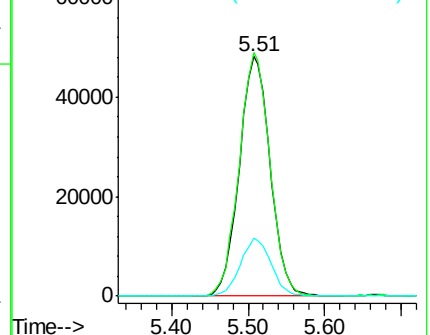
192 23.9 19.1 28.7

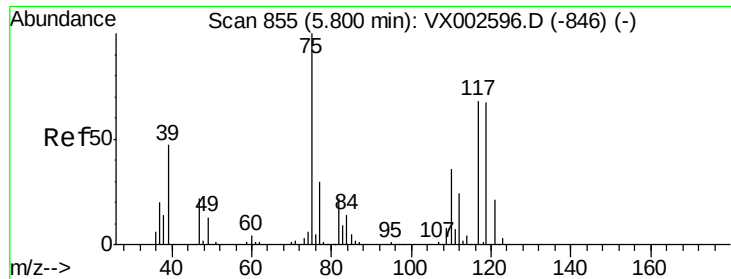


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

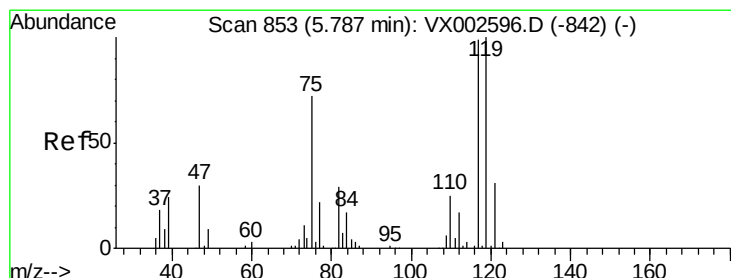
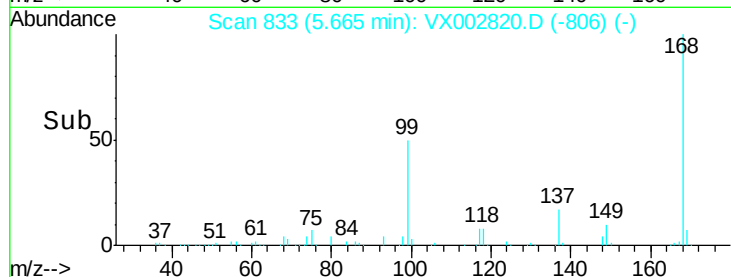
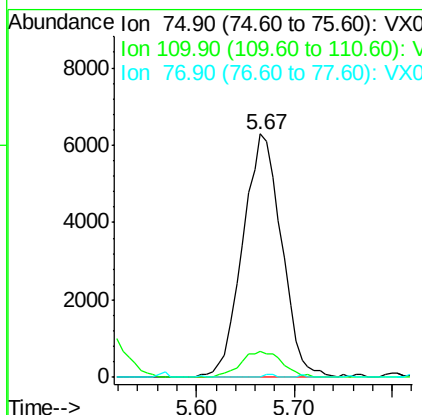
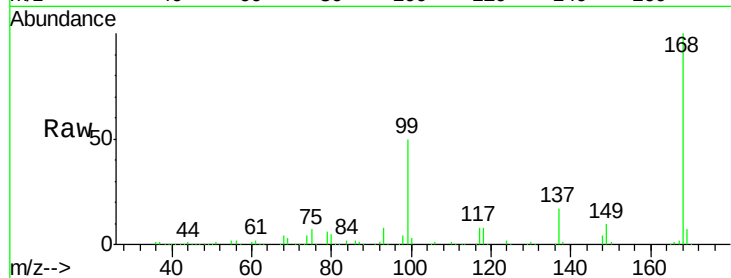




#36
 1,1-Dichloropropene
 Concen: 4.59 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002820.D
 Acq: 22 Jun 2018 06:12

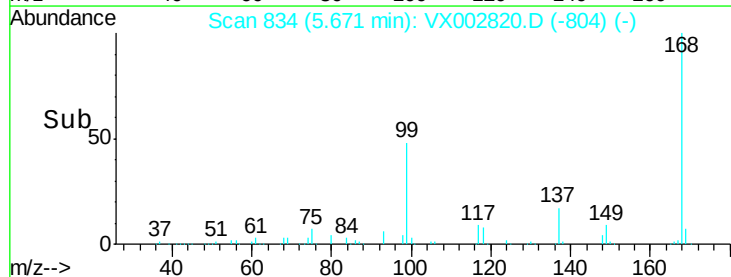
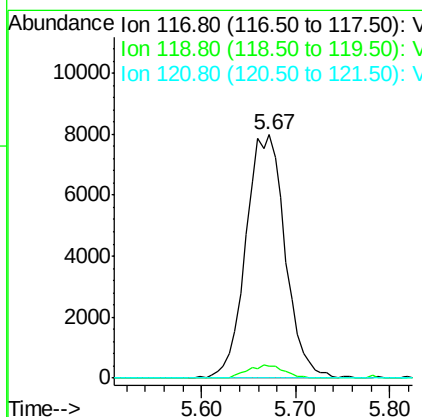
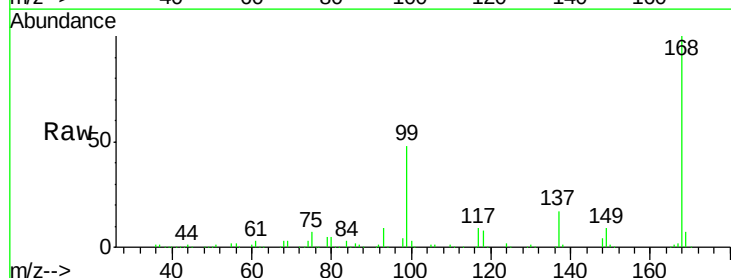
Instrument :
 MSVOA_X
 ClientSampleId :
 OK-01-062018

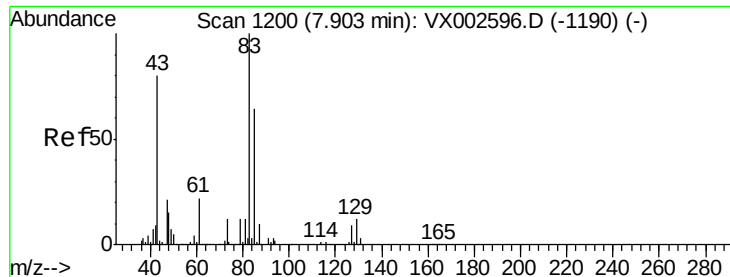
Tot Ion: 75 Resp: 17313
 Ion Ratio Lower Upper
 75 100
 110 11.4 18.1 54.4#
 77 0.3 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 6.18 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002820.D
 Acq: 22 Jun 2018 06:12

Tgt Ion: 117 Resp: 23192
 Ion Ratio Lower Upper
 117 100
 119 4.8 77.4 116.0#
 121 0.0 24.4 36.6#





#47

Bromodichloromethane

Concen: 0.33 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. -0.00 min

Lab File: VX002820.D

Acq: 22 Jun 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

OK-01-062018

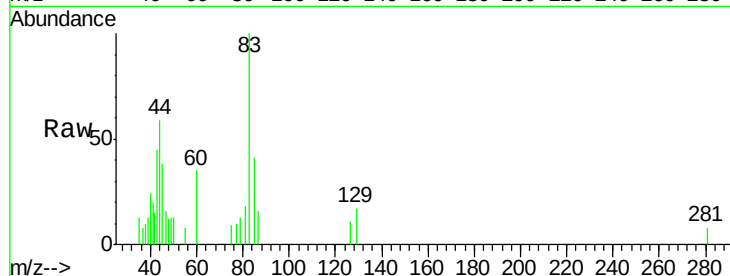
Tot Ion: 83 Resp: 1141

Ion Ratio Lower Upper

83 100

85 41.3 50.3 75.5#

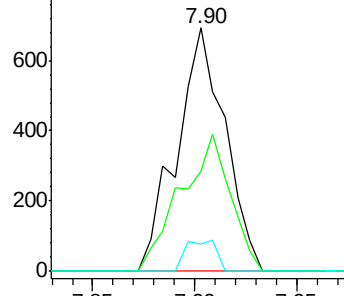
127 11.0 7.0 10.4#



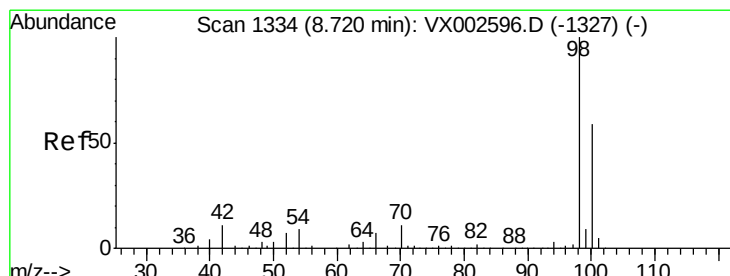
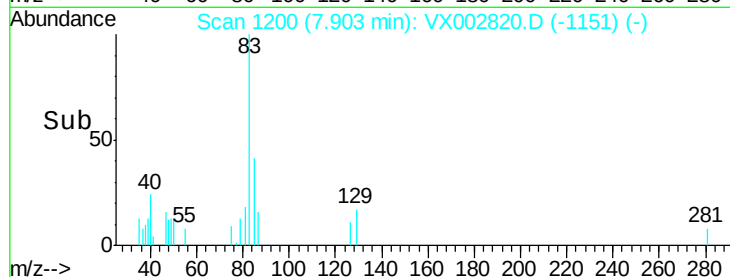
Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



Time-->



#50

Toluene-d8

Concen: 46.07 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002820.D

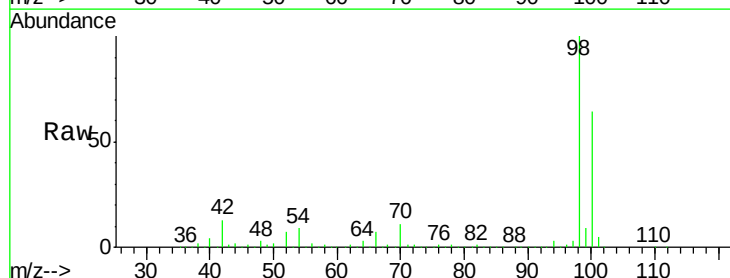
Acq: 22 Jun 2018 06:12

Tgt Ion: 98 Resp: 495346

Ion Ratio Lower Upper

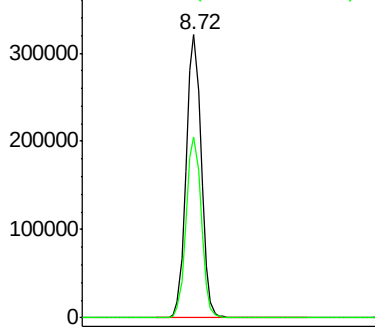
98 100

100 64.1 50.9 76.3

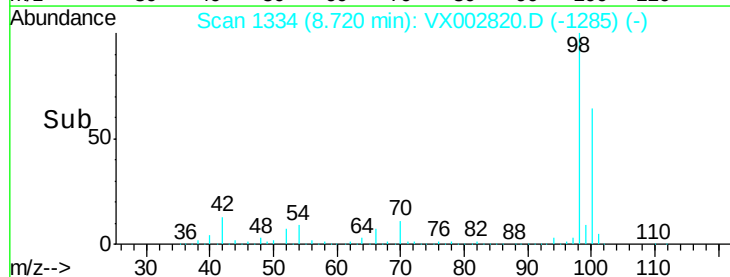


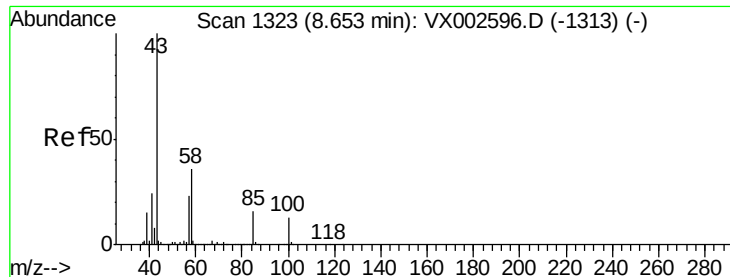
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



Time-->





#51

4-Methyl-2-Pentanone

Concen: 0.24 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX002820.D

Acq: 22 Jun 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

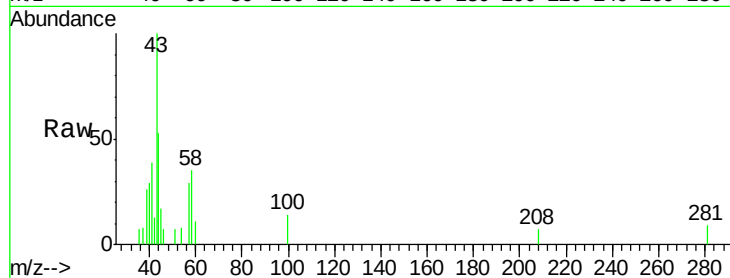
OK-01-062018

Tot Ion: 43 Resp: 1076

Ion Ratio Lower Upper

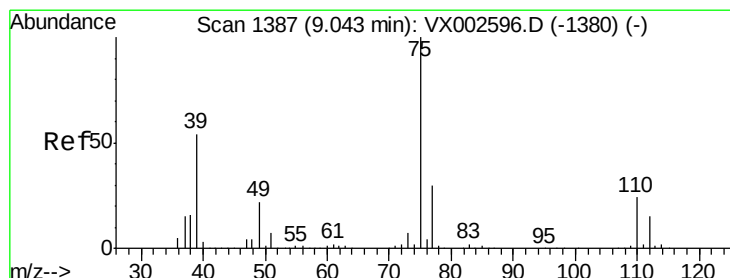
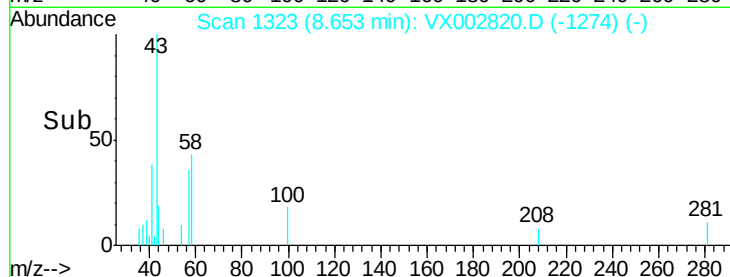
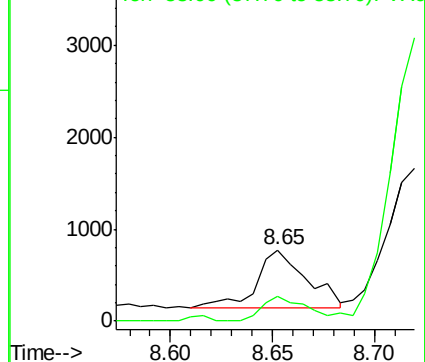
43 100

58 37.2 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 9.04 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VX002820.D

Acq: 22 Jun 2018 06:12

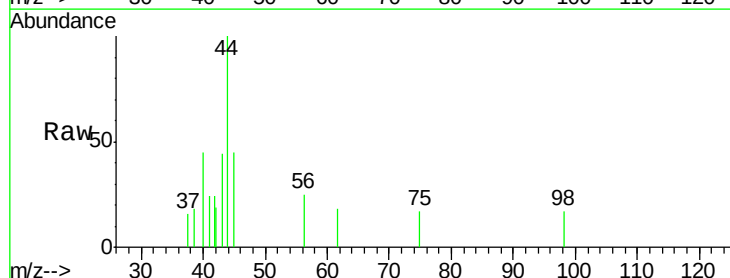
Tgt Ion: 75 Resp: 19

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

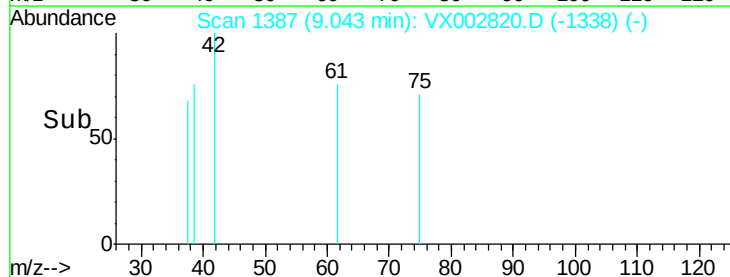
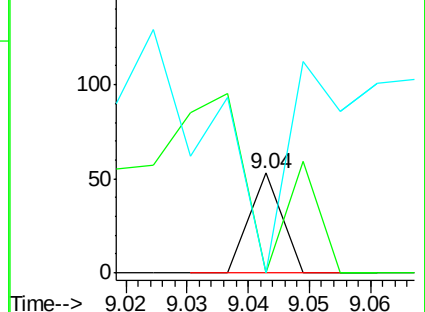
39 0.0 42.4 63.6#

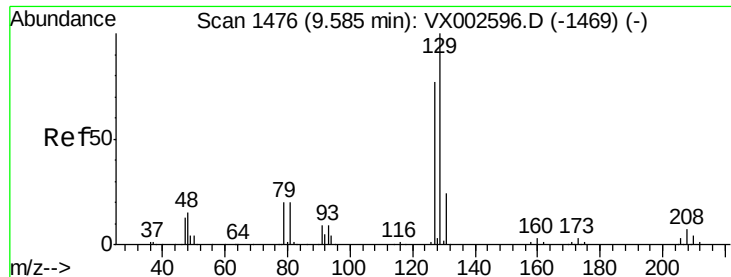


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





#60

Dibromochloromethane

Concen: 3.86 ug/l

RT: 9.59 min Scan# 1476

Delta R.T. 0.00 min

Lab File: VX002820.D

Acq: 22 Jun 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

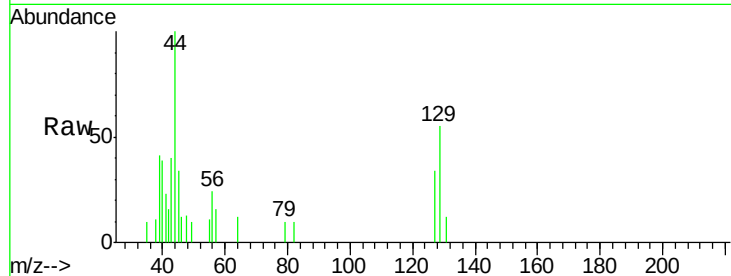
OK-01-062018

Tot Ion:129 Resp: 340

Ion Ratio Lower Upper

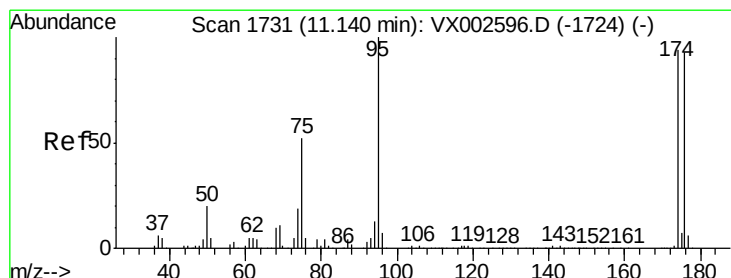
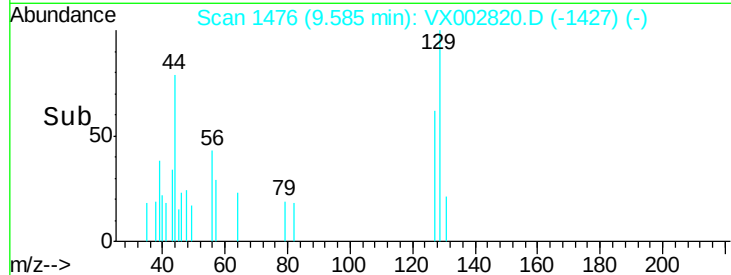
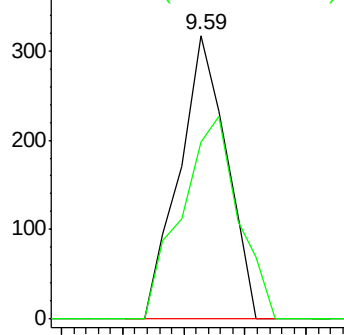
129 100

127 86.2 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: 44.81 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002820.D

Acq: 22 Jun 2018 06:12

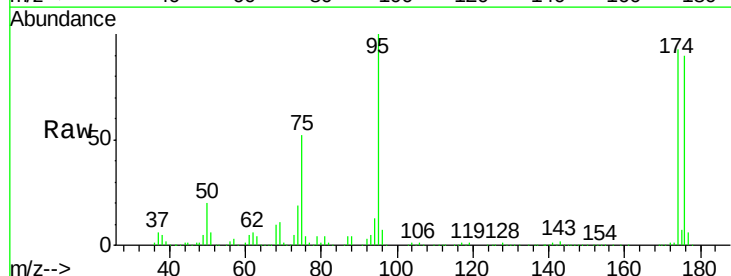
Tgt Ion: 95 Resp: 182565

Ion Ratio Lower Upper

95 100

174 96.0 0.0 187.4

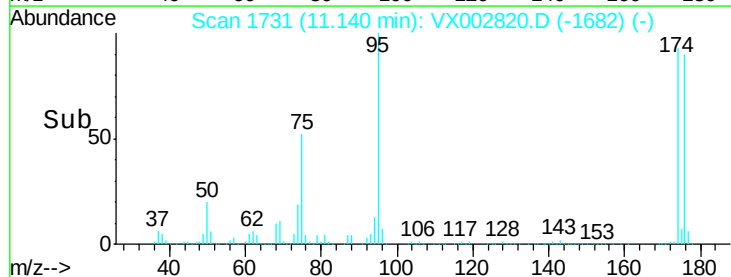
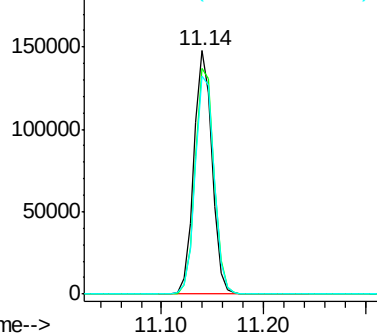
176 93.2 0.0 181.0

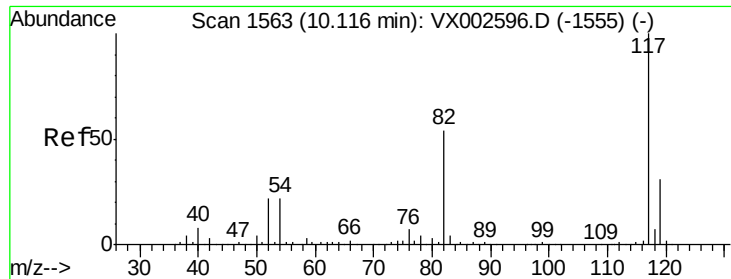


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

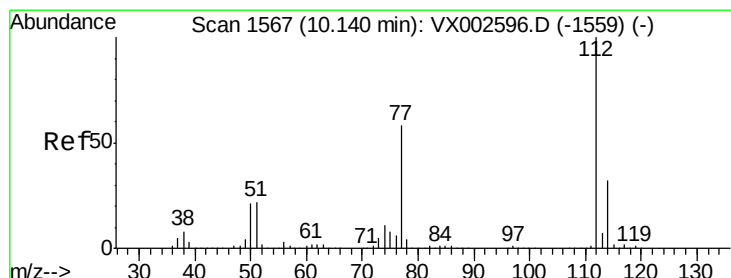
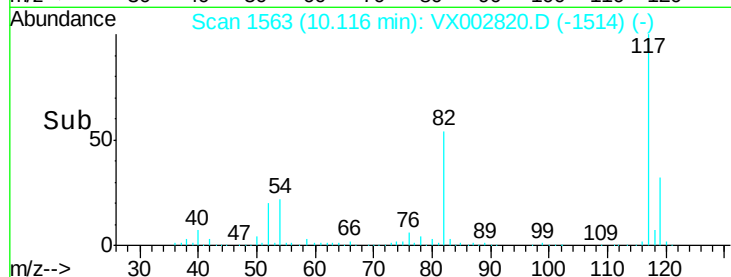
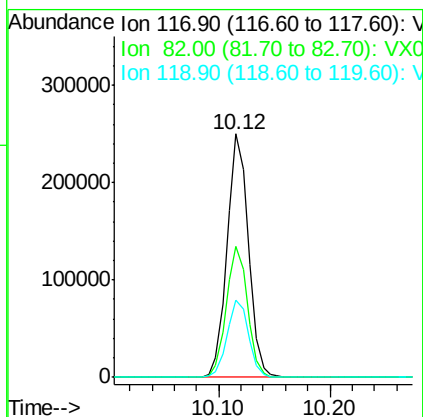
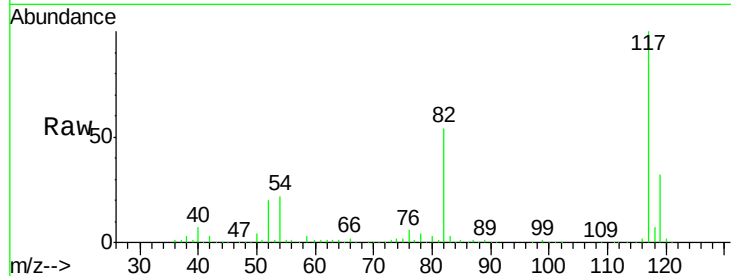




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002820.D
Acq: 22 Jun 2018 06:12

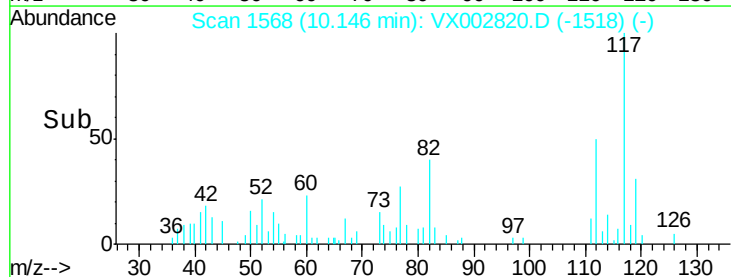
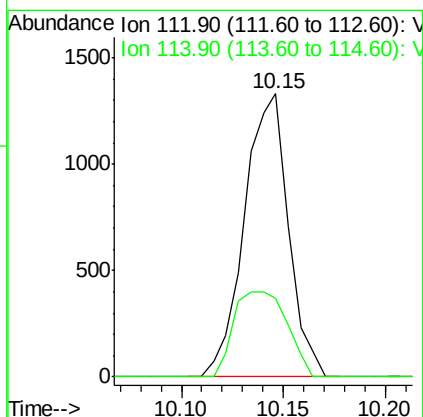
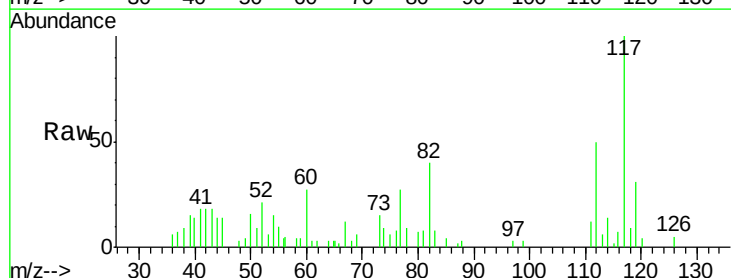
Instrument :
MSVOA_X
ClientSampleId :
OK-01-062018

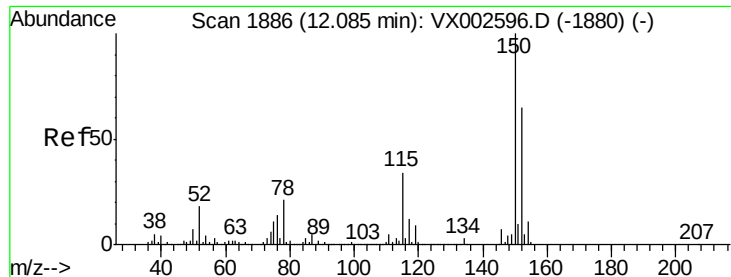
Tot Ion:117 Resp: 330798
Ion Ratio Lower Upper
117 100
82 54.0 45.0 67.4
119 31.5 25.8 38.6



#65
Chlorobenzene
Concen: 0.25 ug/l
RT: 10.15 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VX002820.D
Acq: 22 Jun 2018 06:12

Tgt Ion:112 Resp: 1996
Ion Ratio Lower Upper
112 100
114 27.8 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002820.D

Acq: 22 Jun 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

OK-01-062018

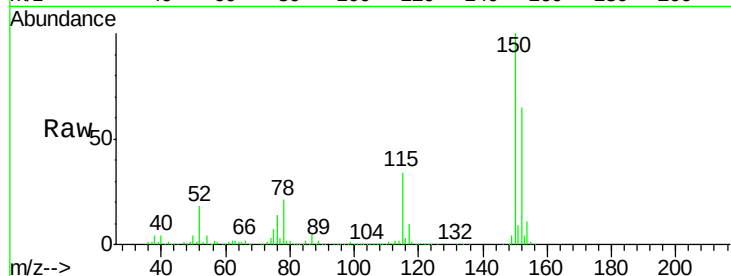
Tot Ion:152 Resp: 192858

Ion Ratio Lower Upper

152 100

115 54.5 40.1 120.2

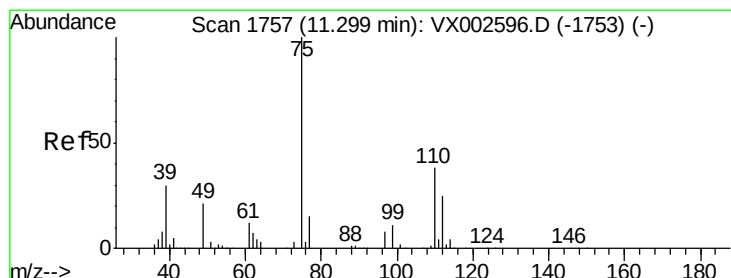
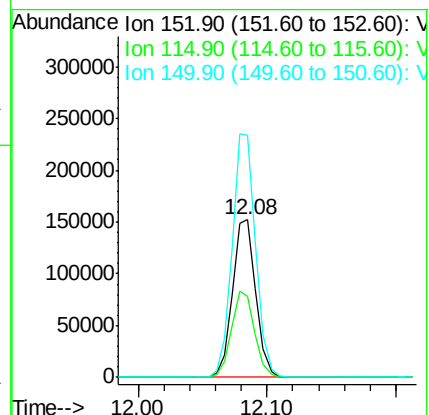
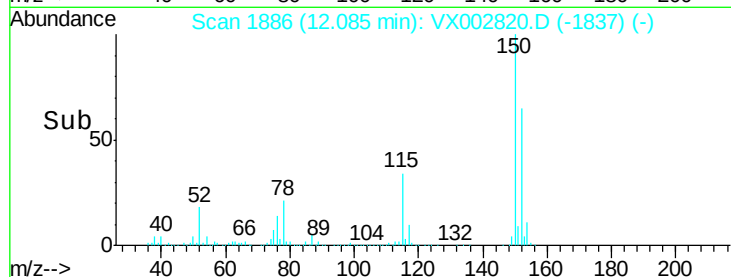
150 156.0 0.0 347.2



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: 26.18 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002820.D

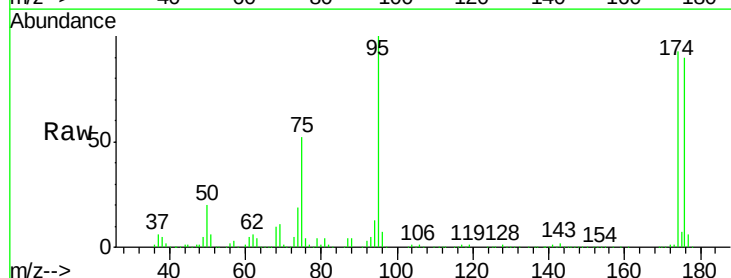
Acq: 22 Jun 2018 06:12

Tgt Ion: 75 Resp: 95288

Ion Ratio Lower Upper

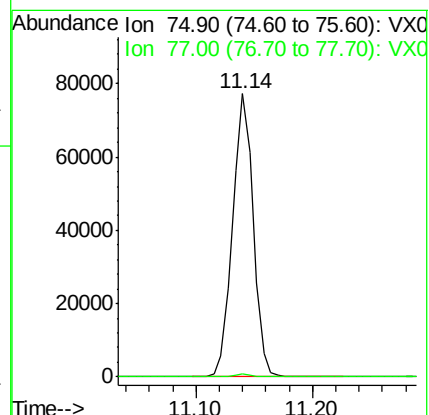
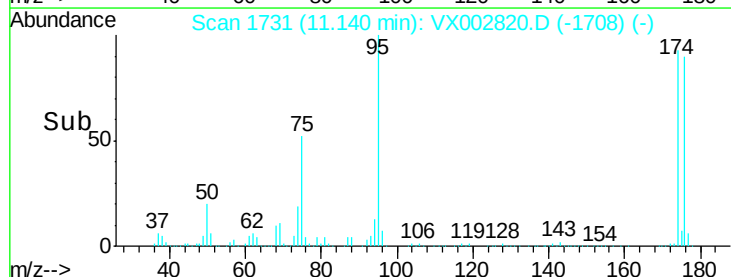
75 100

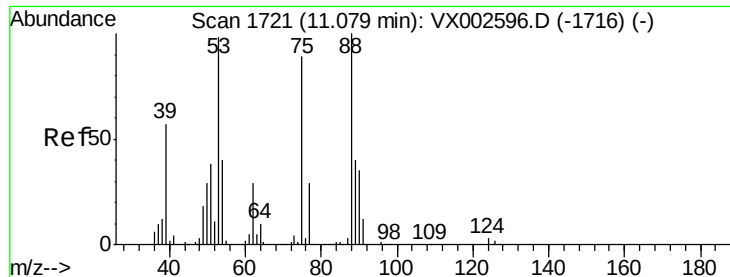
77 1.1 22.8 68.3#



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: 80.96 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002820.D

Acq: 22 Jun 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

OK-01-062018

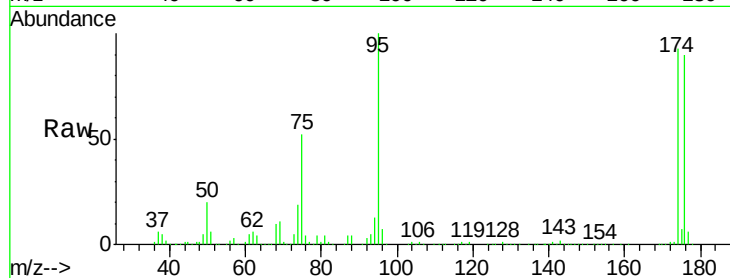
Tot Ion: 75 Resp: 95288

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

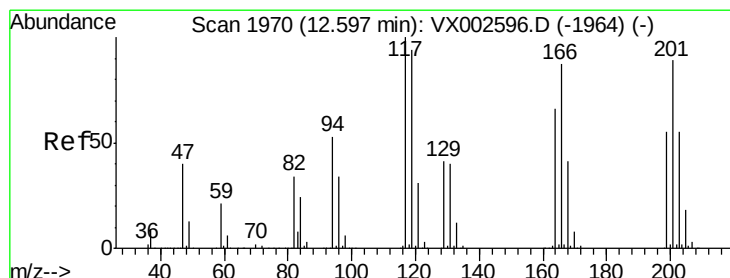
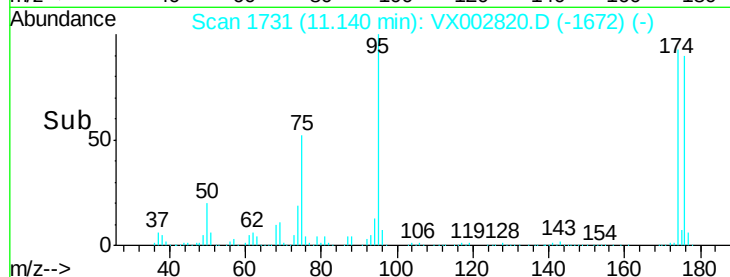
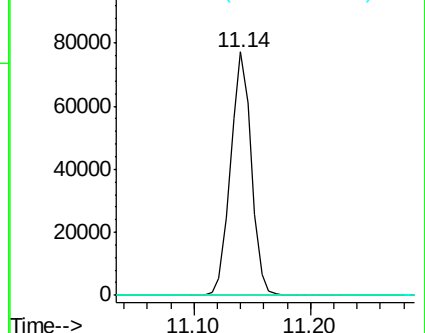
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX002820.D (-1672) (-)

Ion 53.00 (52.70 to 53.70): VX002820.D (-1672) (-)

Ion 88.90 (88.60 to 89.60): VX002820.D (-1672) (-)



#90

Hexachloroethane

Concen: 2.69 ug/l

RT: 12.68 min Scan# 1983

Delta R.T. 0.08 min

Lab File: VX002820.D

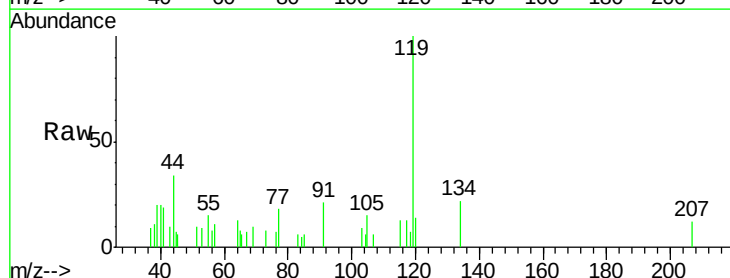
Acq: 22 Jun 2018 06:12

Tgt Ion: 117 Resp: 134

Ion Ratio Lower Upper

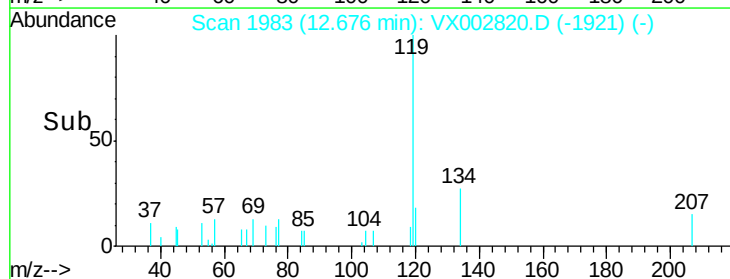
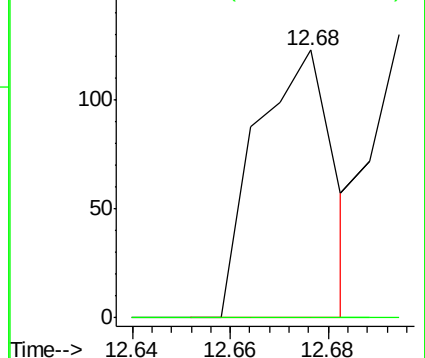
117 100

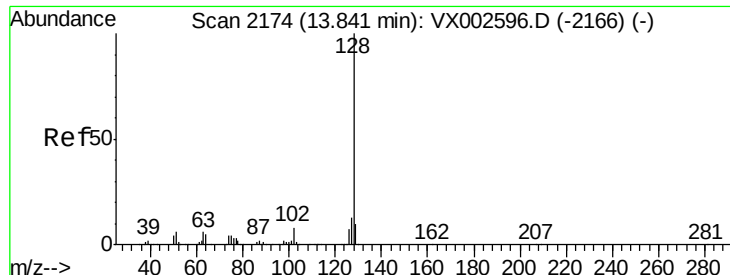
201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): VX002820.D (-1921) (-)

Ion 200.70 (200.40 to 201.40): VX002820.D (-1921) (-)





#95

Naphthalene

Concen: 1.29 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX002820.D

Acq: 22 Jun 2018 06:12

Instrument :

MSVOA_X

ClientSampleId :

OK-01-062018

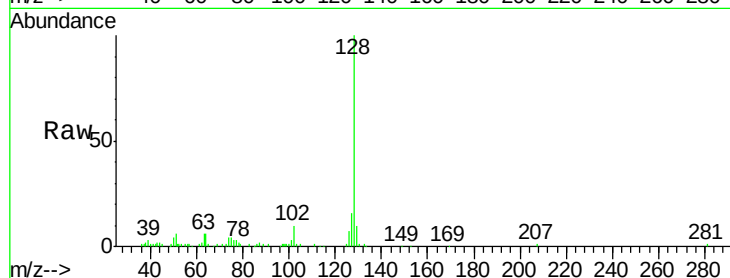
Tot Ion:128 Resp: 16670

Ion Ratio Lower Upper

128 100

127 16.0 10.4 15.6#

129 11.5 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

