

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX010319\
 Data File : VX006899.D
 Acq On : 03 Jan 2019 17:12
 Operator : JC/MD
 Sample : K1002-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 AU-05-010219-C

Quant Time: Jan 04 00:22:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	649937	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	989306	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	929502	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	456999	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	337936	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	
35) Dibromofluoromethane	5.51	113	297908	47.62	ug/l	0.00
Spiked Amount			Recovery	=	95.24%	
50) Toluene-d8	8.71	98	1200331	50.89	ug/l	0.00
Spiked Amount			Recovery	=	101.78%	
62) 4-Bromofluorobenzene	11.13	95	424921	49.19	ug/l	0.00
Spiked Amount			Recovery	=	98.38%	

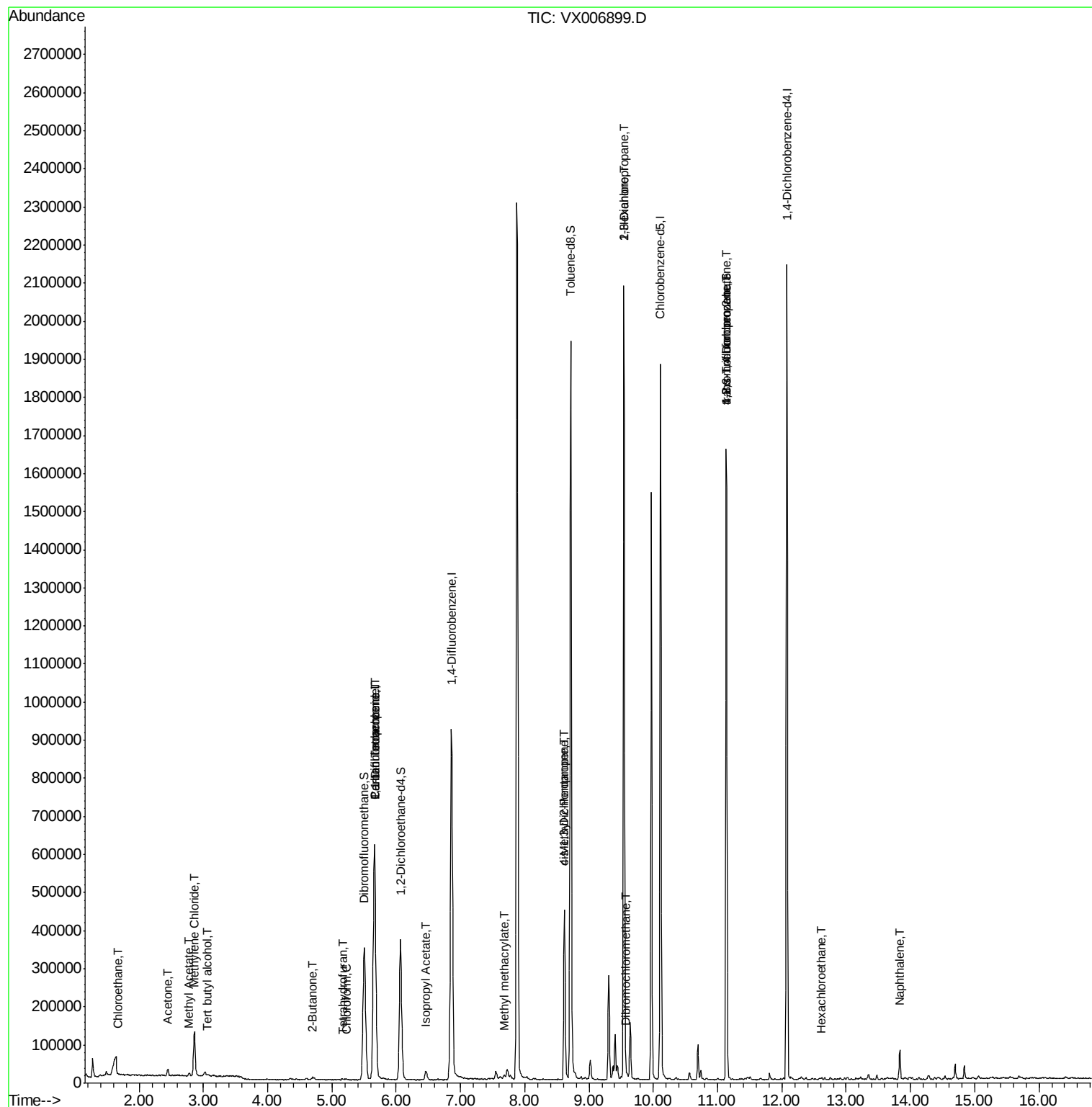
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1395	Below Cal	#	69
6) Chloroethane	1.67	64	961	0.207	ug/l #	79
11) Tert butyl alcohol	3.07	59	4997	3.197	ug/l #	87
16) Acetone	2.45	43	19763	6.141	ug/l	90
18) Methyl Acetate	2.78	43	8110	0.857	ug/l	95
20) Methylene Chloride	2.86	84	55541	8.346	ug/l	94
25) 2-Butanone	4.71	43	13899	3.070	ug/l #	89
28) Bromochloromethane	5.04	49	301	Below Cal	#	22
29) Tetrahydrofuran	5.17	42	2522	0.846	ug/l #	86
30) Chloroform	5.22	83	2430	0.220	ug/l	95
36) 1,1-Dichloropropene	5.66	75	41052	5.010	ug/l #	49
38) Carbon Tetrachloride	5.67	117	60203	7.560	ug/l #	15
43) Isopropyl Acetate	6.46	43	30056	2.316	ug/l	98
48) Methyl methacrylate	7.68	41	14689	2.226	ug/l #	13
49) 1,4-Dioxane	7.75	88	93	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.62	43	145591	17.634	ug/l #	48
54) cis-1,3-Dichloropropene	8.62	75	73511	8.440	ug/l #	65
57) 1,3-Dichloropropane	9.54	76	17848	1.684	ug/l #	45
59) 2-Hexanone	9.54	43	227266	35.977	ug/l #	51
60) Dibromochloromethane	9.59	129	224	2.355	ug/l	94
76) 1,2,3-Trichloropropane	11.13	75	201259	23.697	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	201259	70.245	ug/l #	10
90) Hexachloroethane	12.60	117	222	3.341	ug/l #	16
95) Naphthalene	13.83	128	50538	1.506	ug/l	98

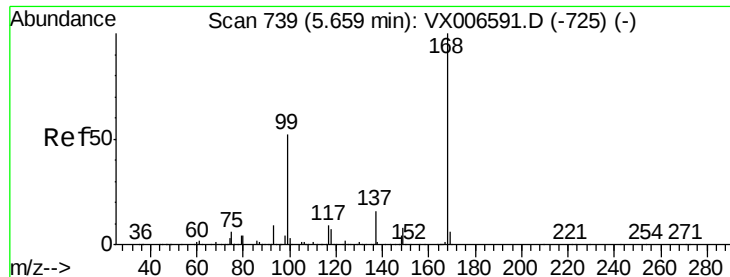
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006899.D

Acq: 03 Jan 2019 17:12

Instrument :

MSVOA_X

ClientSampleId :

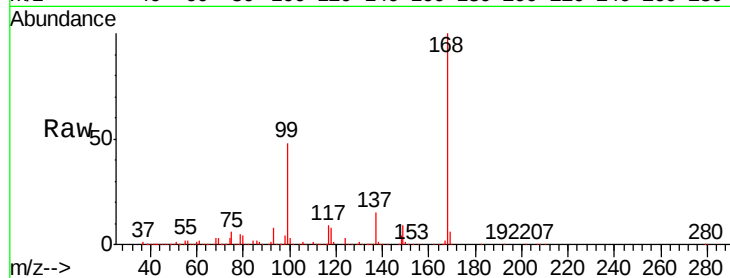
AU-05-010219-C

Tgt Ion:168 Resp: 649937

Ion Ratio Lower Upper

168 100

99 47.7 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): VX006899.D (-690) (-)

Ion 98.90 (98.60 to 99.60): VX006899.D (-690) (-)

5.67

250000

200000

150000

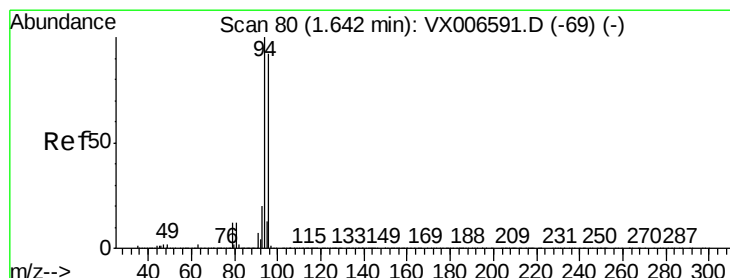
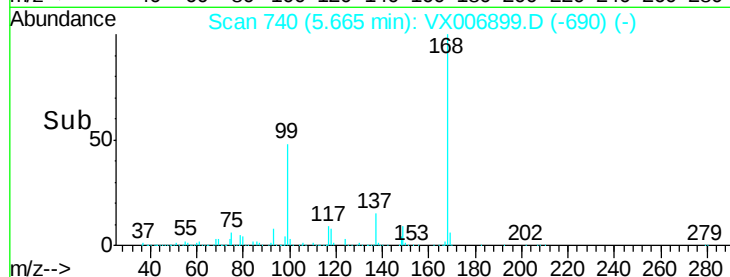
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006899.D

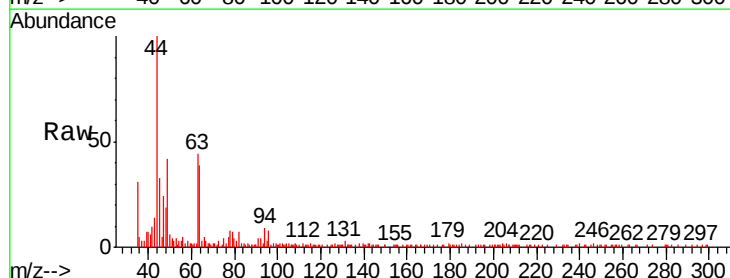
Acq: 03 Jan 2019 17:12

Tgt Ion: 94 Resp: 1395

Ion Ratio Lower Upper

94 100

96 62.0 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX006899.D (-31) (-)

Ion 95.90 (95.60 to 96.60): VX006899.D (-31) (-)

1.64

1000

800

600

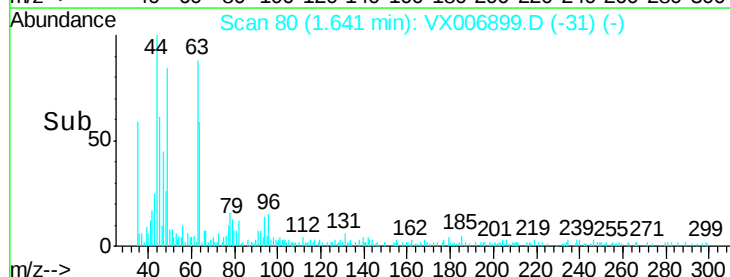
400

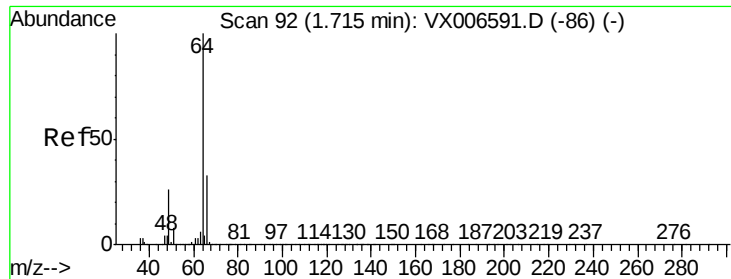
200

0

Time-->

1.60 1.65





#6

Chloroethane

Concen: 0.207 ug/l

RT: 1.67 min Scan# 85

Delta R.T. -0.04 min

Lab File: VX006899.D

Acq: 03 Jan 2019 17:12

Instrument :

MSVOA_X

ClientSampleId :

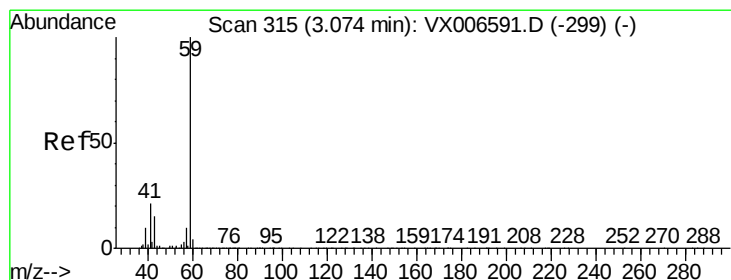
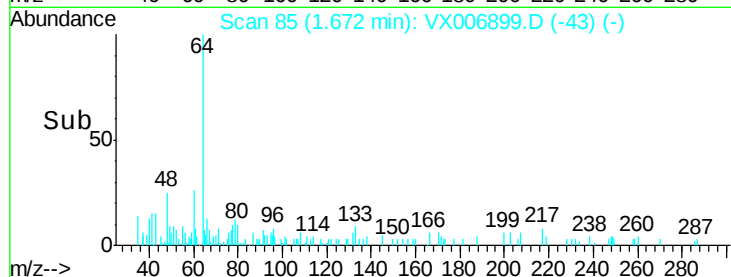
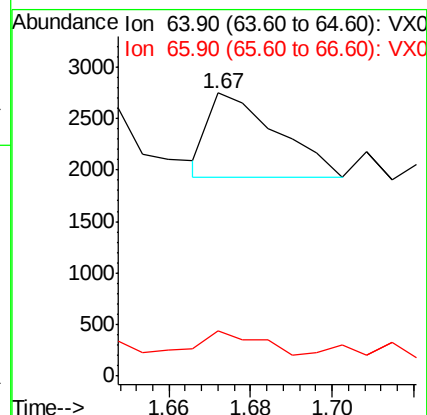
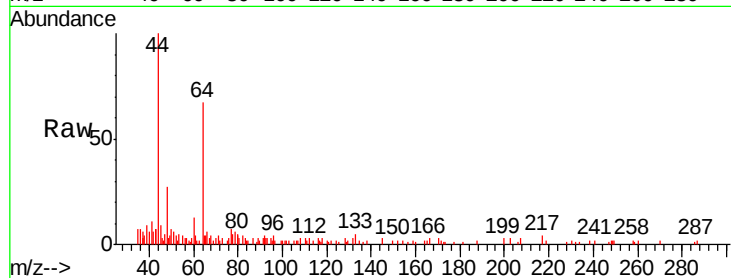
AU-05-010219-C

Tgt Ion: 64 Resp: 961

Ion Ratio Lower Upper

64 100

66 21.3 26.4 39.6#



#11

Tert butyl alcohol

Concen: 3.197 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX006899.D

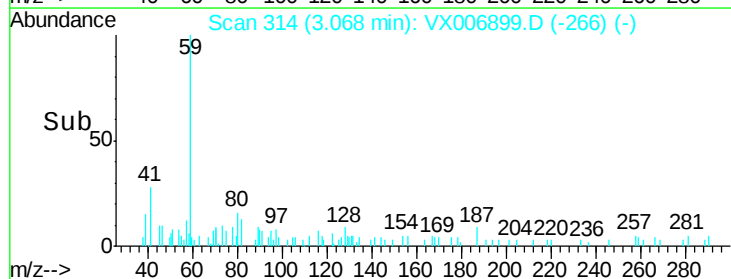
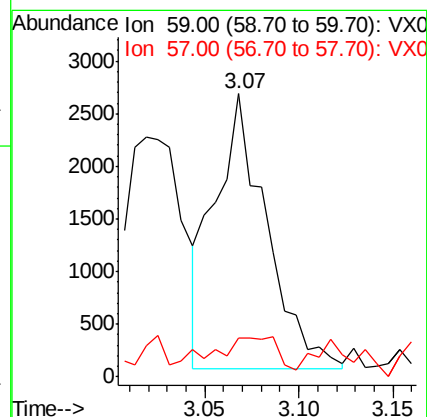
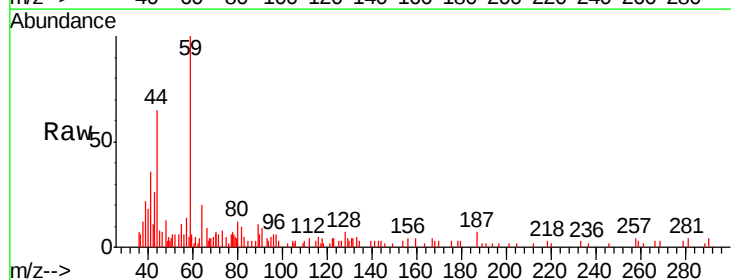
Acq: 03 Jan 2019 17:12

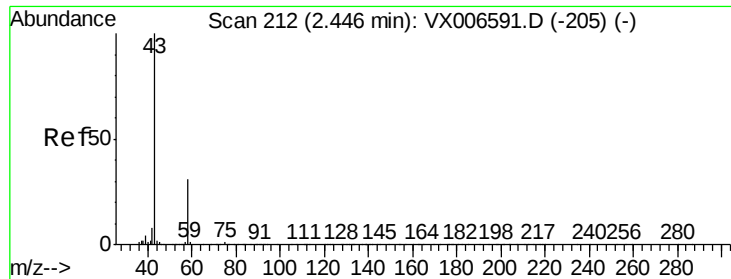
Tgt Ion: 59 Resp: 4997

Ion Ratio Lower Upper

59 100

57 15.5 8.5 12.7#

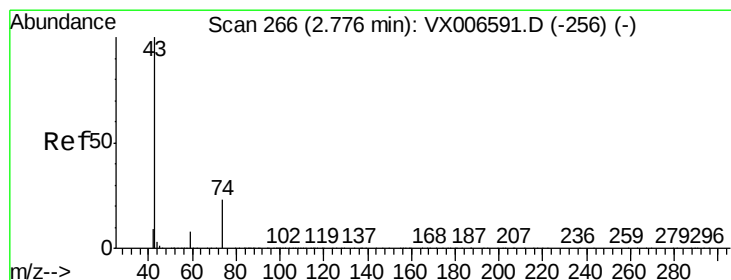
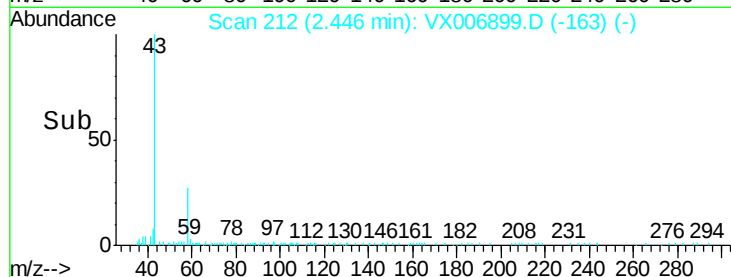
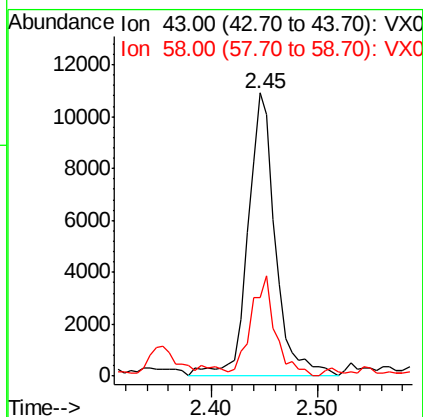
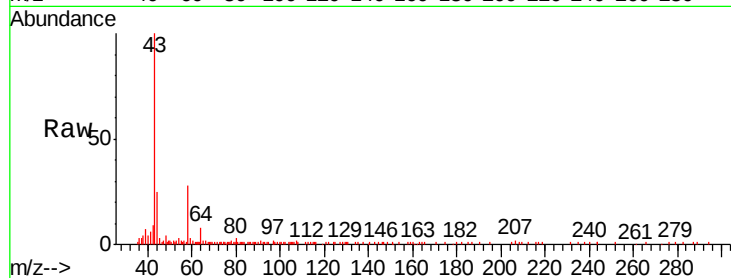




#16
Acetone
Concen: 6.141 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006899.D
Acq: 03 Jan 2019 17:12

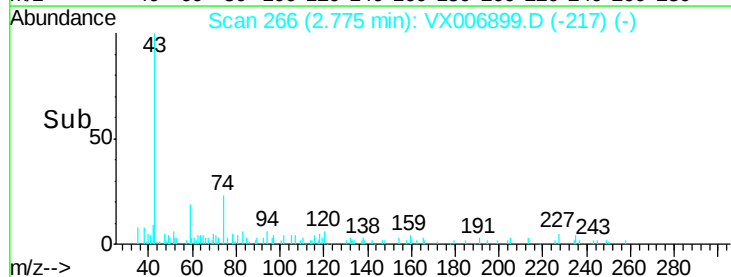
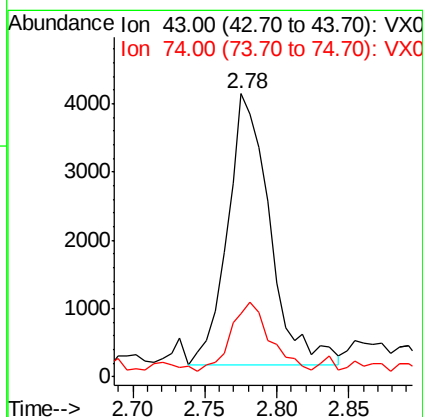
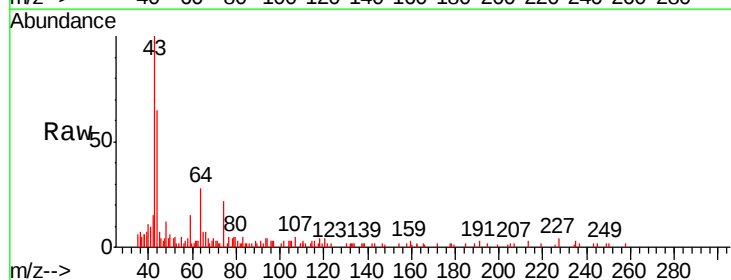
Instrument :
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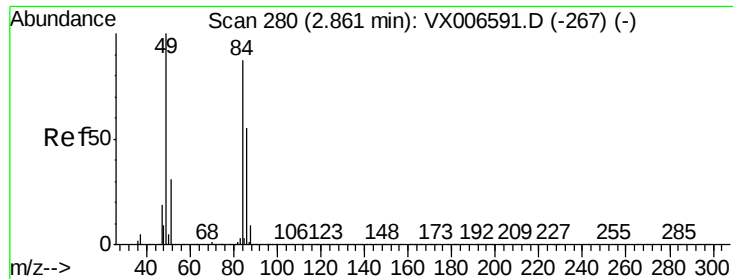
Tgt Ion: 43 Resp: 19763
Ion Ratio Lower Upper
43 100
58 26.0 25.0 37.6



#18
Methyl Acetate
Concen: 0.857 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX006899.D
Acq: 03 Jan 2019 17:12

Tgt Ion: 43 Resp: 8110
Ion Ratio Lower Upper
43 100
74 25.8 18.6 28.0

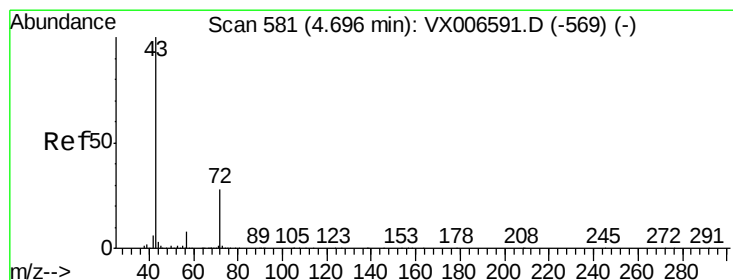
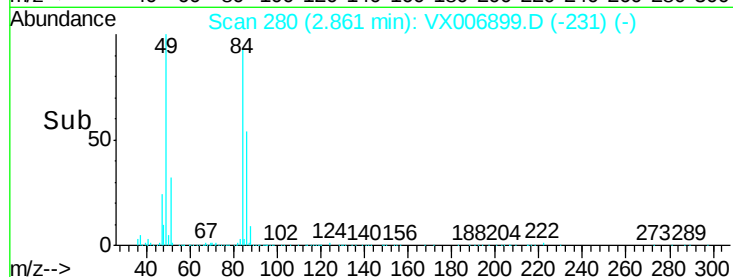
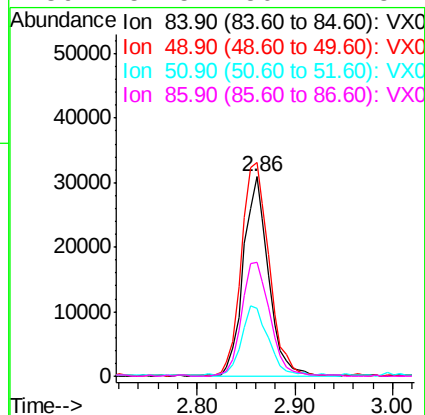
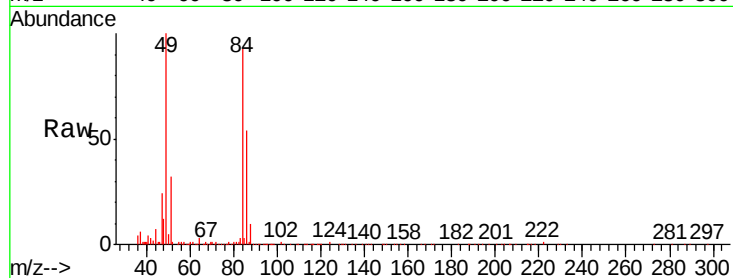




#20
Methylene Chloride
Concen: 8.346 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006899.D
Acq: 03 Jan 2019 17:12

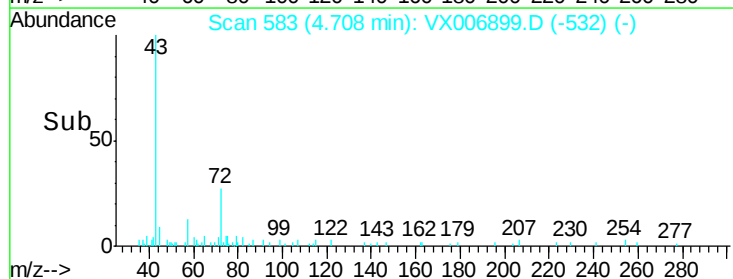
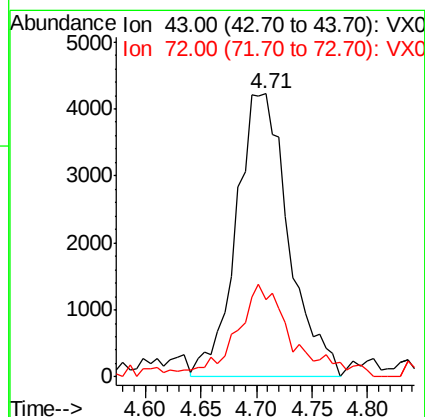
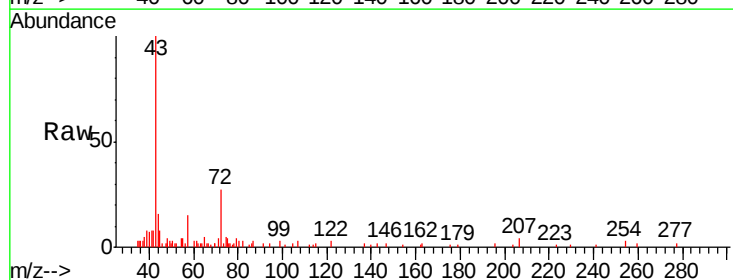
Instrument :
MSVOA_X
ClientSampleId :
AU-05-010219-C

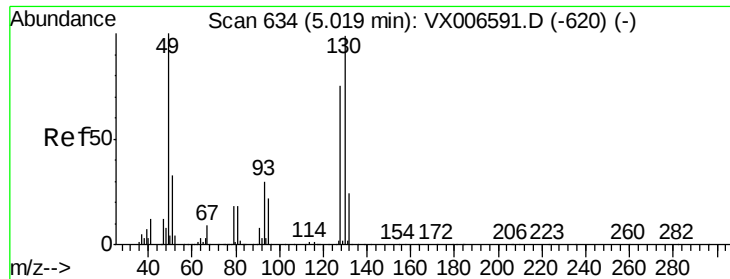
Tgt Ion: 84 Resp: 55541
Ion Ratio Lower Upper
84 100
49 106.8 91.8 137.6
51 34.0 28.5 42.7
86 57.5 50.2 75.2



#25
2-Butanone
Concen: 3.070 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX006899.D
Acq: 03 Jan 2019 17:12

Tgt Ion: 43 Resp: 13899
Ion Ratio Lower Upper
43 100
72 22.3 22.4 33.6#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 637

Delta R.T. 0.02 min

Lab File: VX006899.D

Acq: 03 Jan 2019 17:12

Instrument :

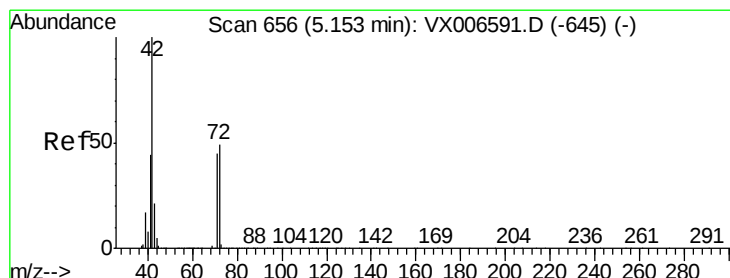
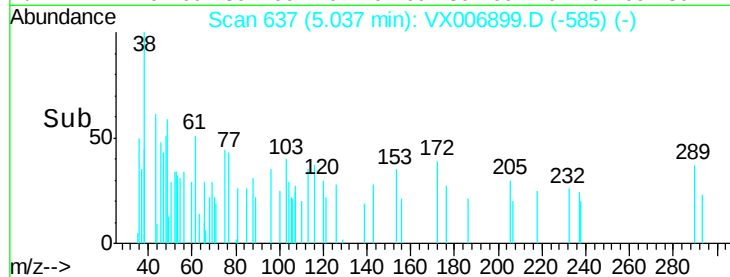
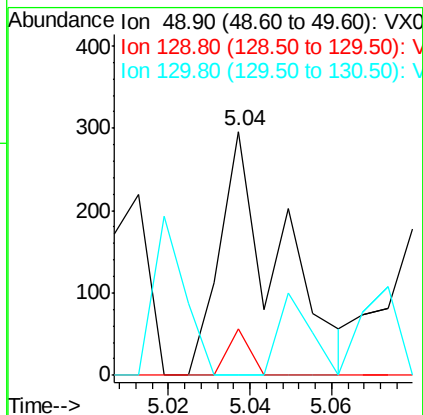
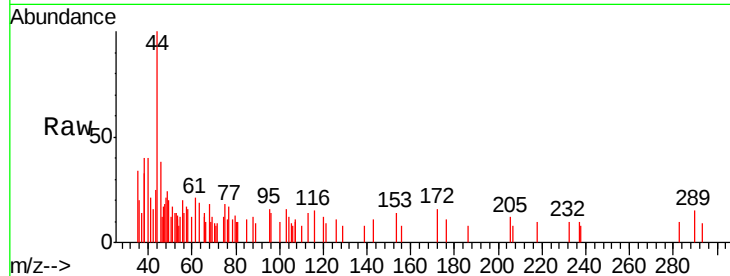
MSVOA_X

ClientSampleId :

AU-05-010219-C

Tgt Ion: 49 Resp: 301

Ion	Ratio	Lower	Upper
49	100		
129	6.6	0.0	5.4#
130	18.6	77.7	116.5#



#29

Tetrahydrofuran

Concen: 0.846 ug/l

RT: 5.17 min Scan# 658

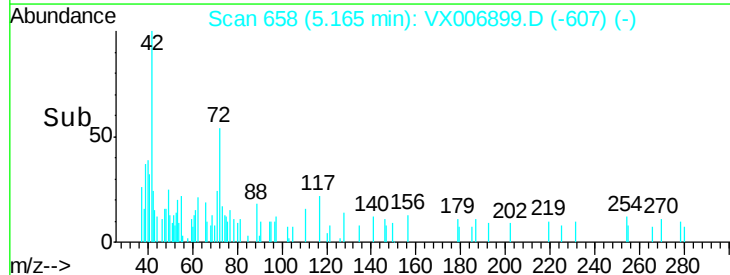
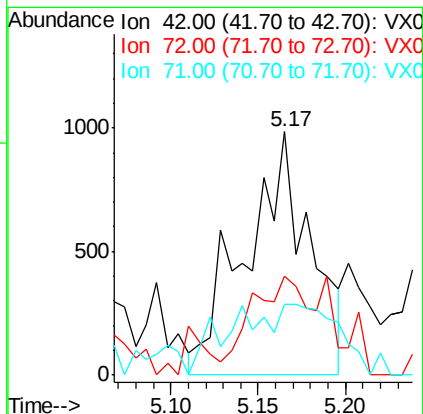
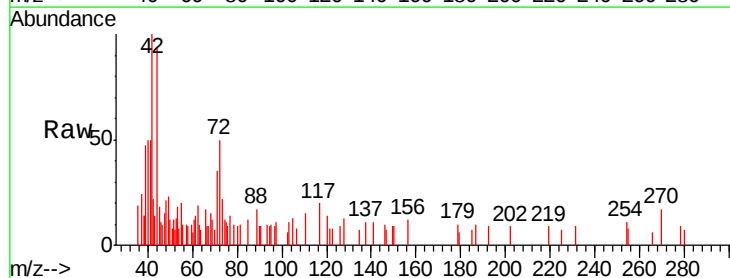
Delta R.T. 0.01 min

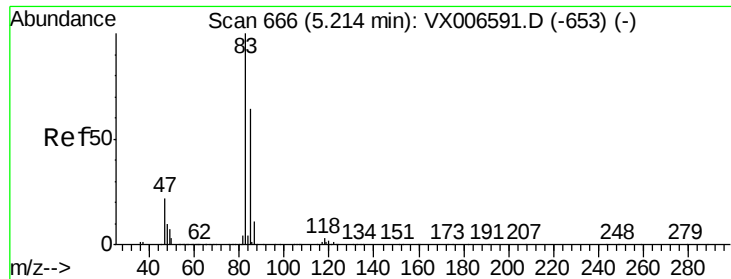
Lab File: VX006899.D

Acq: 03 Jan 2019 17:12

Tgt Ion: 42 Resp: 2522

Ion	Ratio	Lower	Upper
42	100		
72	49.1	38.9	58.3
71	27.0	36.2	54.4#

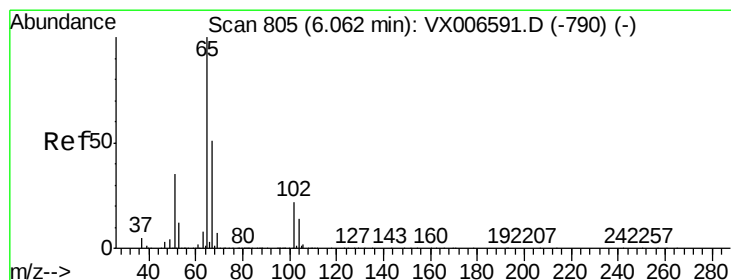
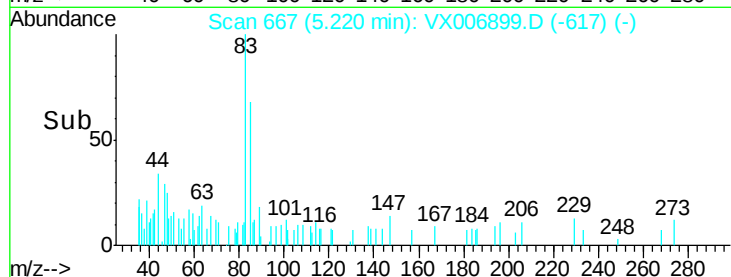
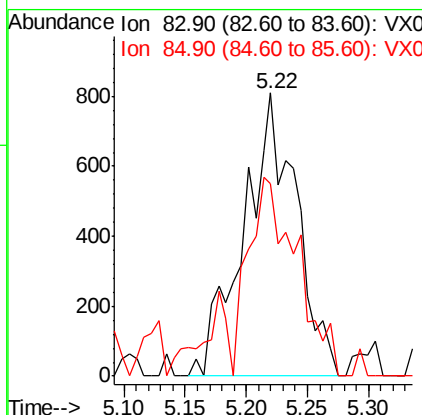
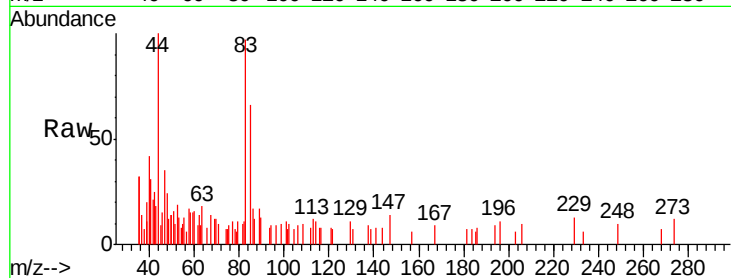




#30
Chloroform
Concen: 0.220 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX006899.D
Acq: 03 Jan 2019 17:12

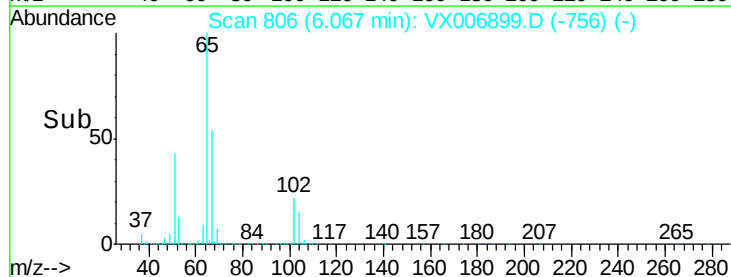
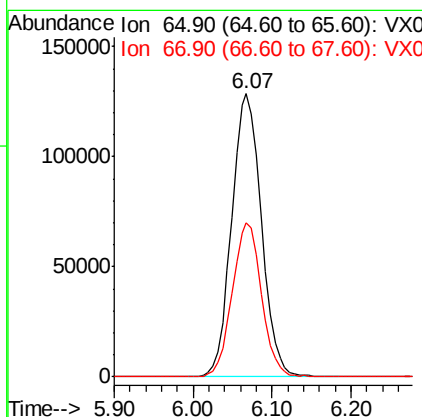
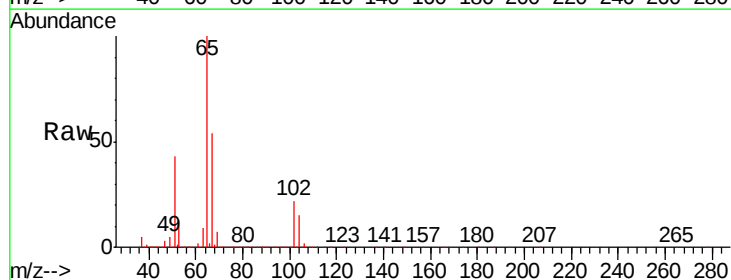
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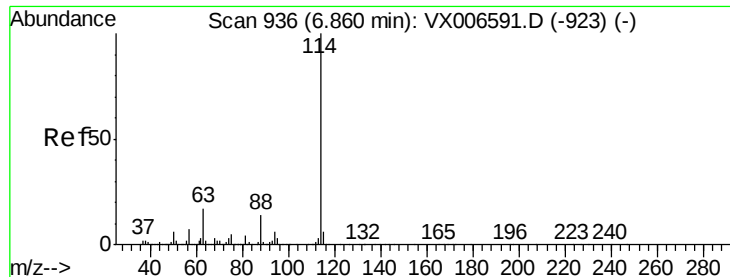
Tgt Ion: 83 Resp: 2430
Ion Ratio Lower Upper
83 100
85 68.2 51.2 76.8



#33
1,2-Dichloroethane-d4
Concen: 48.244 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX006899.D
Acq: 03 Jan 2019 17:12

Tgt Ion: 65 Resp: 337936
Ion Ratio Lower Upper
65 100
67 53.6 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006899.D

Acq: 03 Jan 2019 17:12

Instrument :

MSVOA_X

ClientSampleId :

AU-05-010219-C

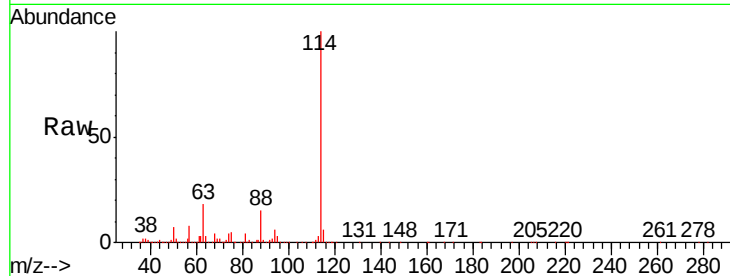
Tgt Ion:114 Resp: 989306

Ion Ratio Lower Upper

114 100

63 18.0 0.0 34.8

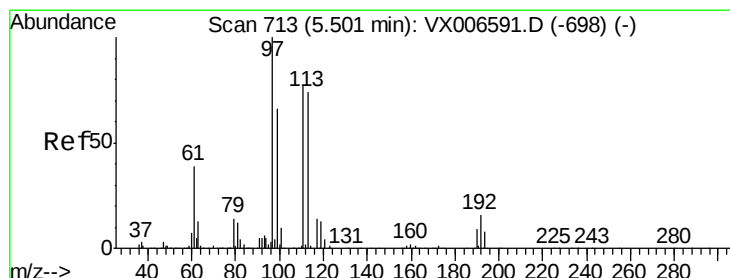
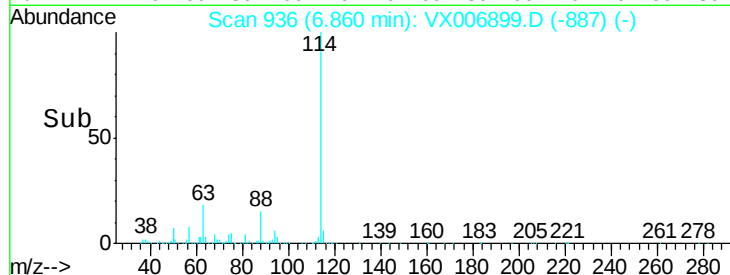
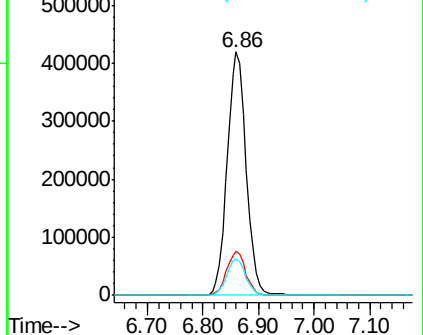
88 15.1 0.0 28.8



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: 47.618 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006899.D

Acq: 03 Jan 2019 17:12

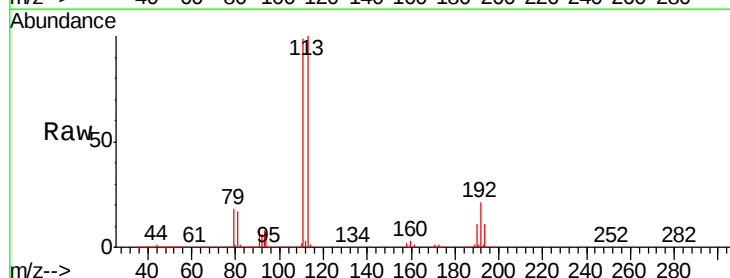
Tgt Ion:113 Resp: 297908

Ion Ratio Lower Upper

113 100

111 101.6 81.6 122.4

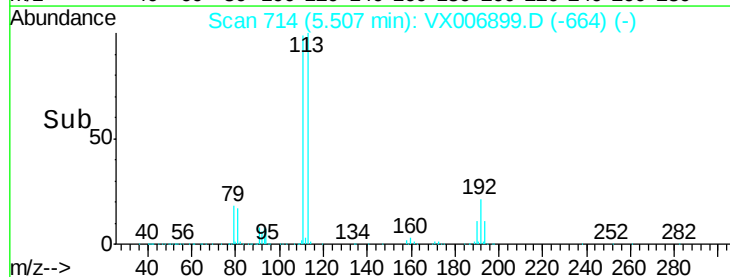
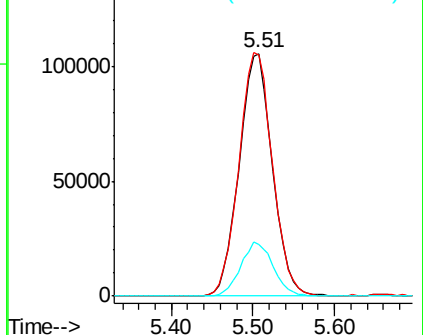
192 21.9 16.7 25.1

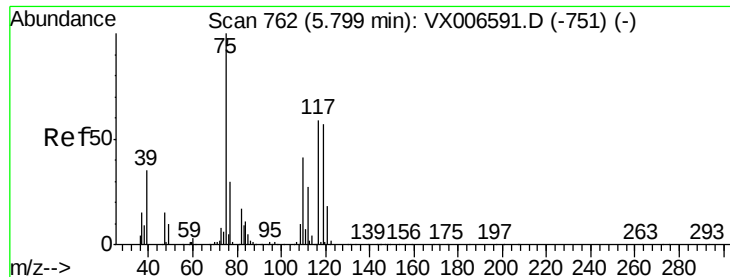


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.010 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX006899.D

Acq: 03 Jan 2019 17:12

Instrument :

MSVOA_X

ClientSampleId :

AU-05-010219-C

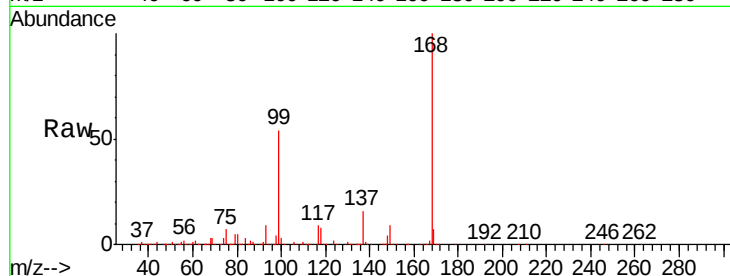
Tgt Ion: 75 Resp: 41052

Ion Ratio Lower Upper

75 100

110 10.8 20.2 60.5#

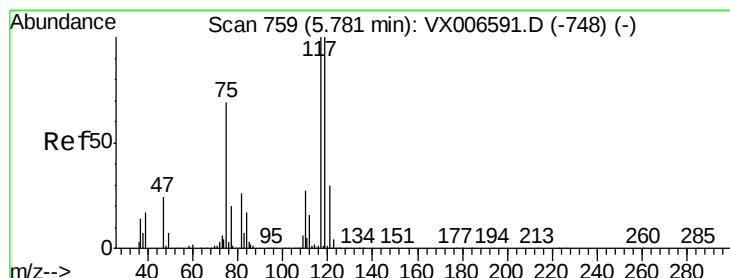
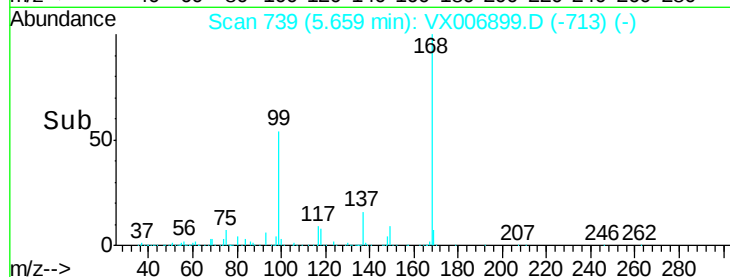
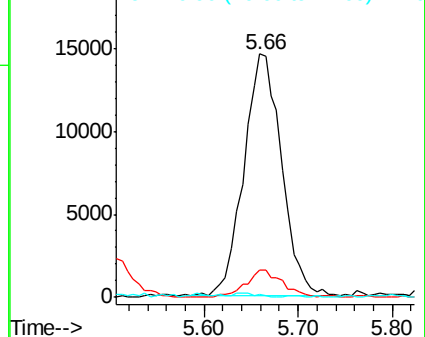
77 1.1 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 7.560 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006899.D

Acq: 03 Jan 2019 17:12

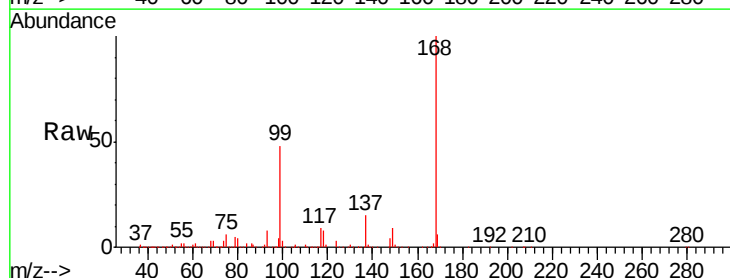
Tgt Ion: 117 Resp: 60203

Ion Ratio Lower Upper

117 100

119 6.2 79.4 119.2#

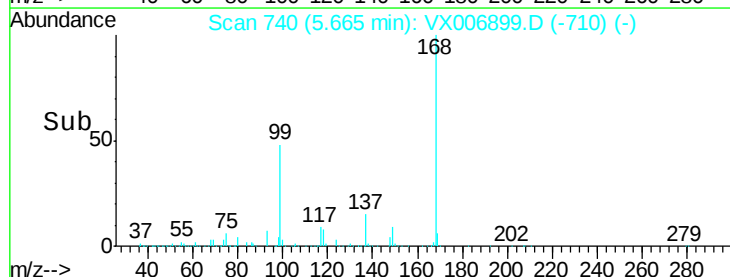
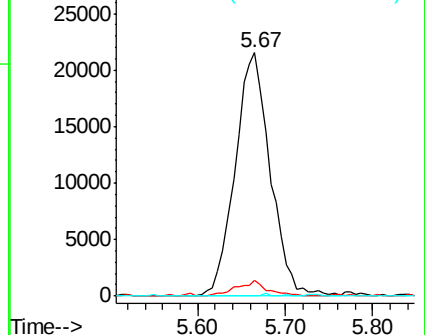
121 0.0 24.0 36.0#

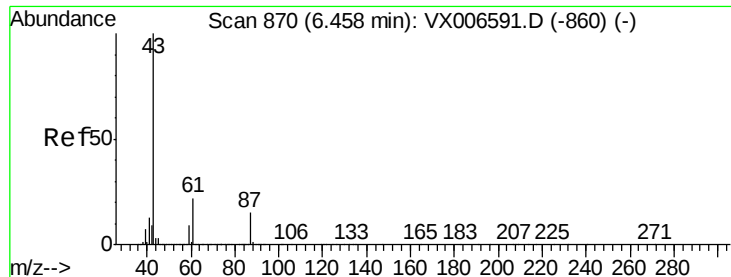


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 2.316 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.00 min

Lab File: VX006899.D

Acq: 03 Jan 2019 17:12

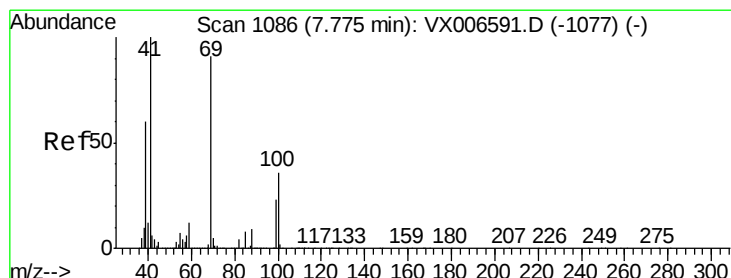
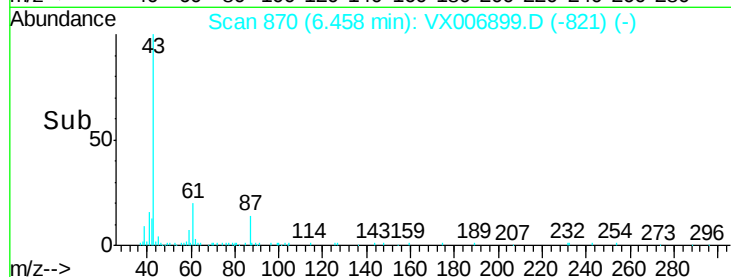
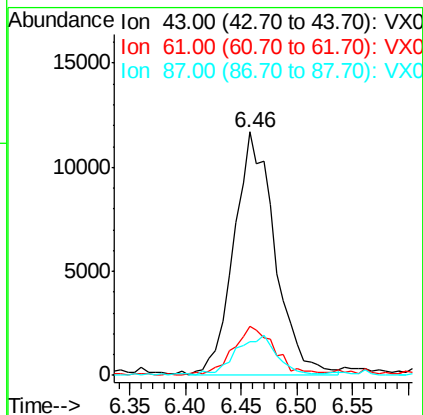
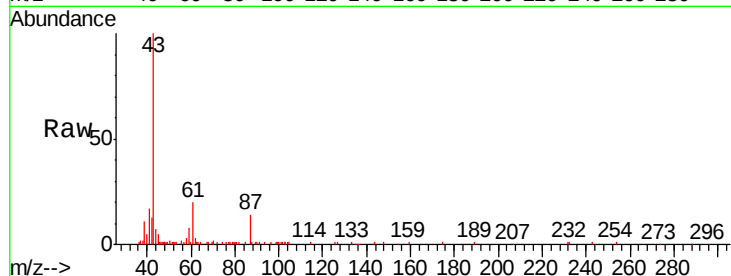
Instrument :

MSVOA_X

ClientSampleId :

AU-05-010219-C

Tgt Ion:	43	Resp:	30056
Ion	Ratio	Lower	Upper
43	100		
61	20.5	16.8	25.2
87	16.8	12.4	18.6



#48

Methyl methacrylate

Concen: 2.226 ug/l

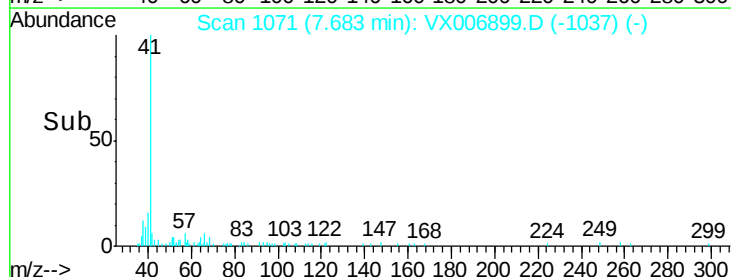
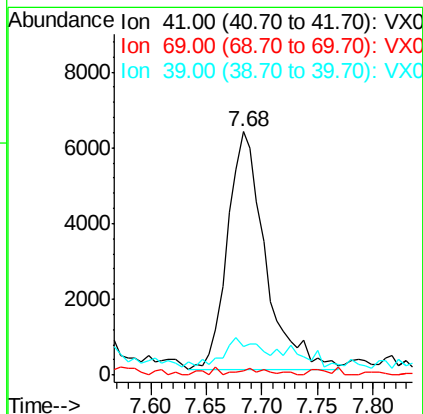
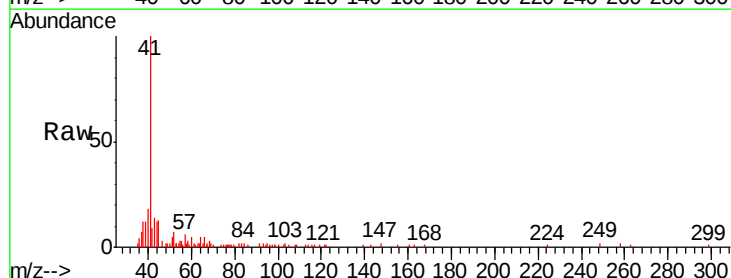
RT: 7.68 min Scan# 1071

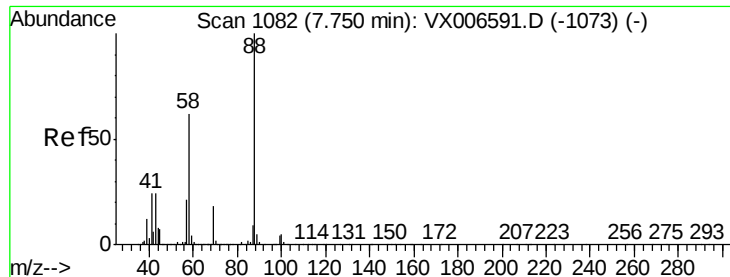
Delta R.T. -0.09 min

Lab File: VX006899.D

Acq: 03 Jan 2019 17:12

Tgt Ion:	41	Resp:	14689
Ion	Ratio	Lower	Upper
41	100		
69	2.2	72.4	108.6#
39	0.0	45.8	68.8#

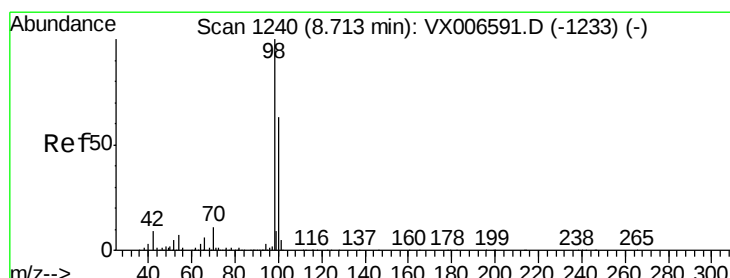
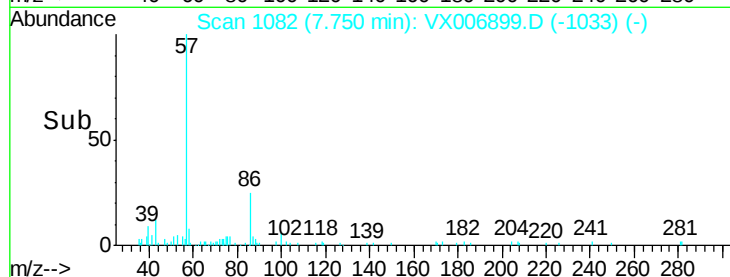
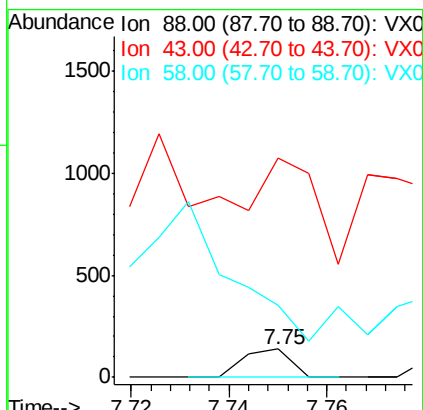
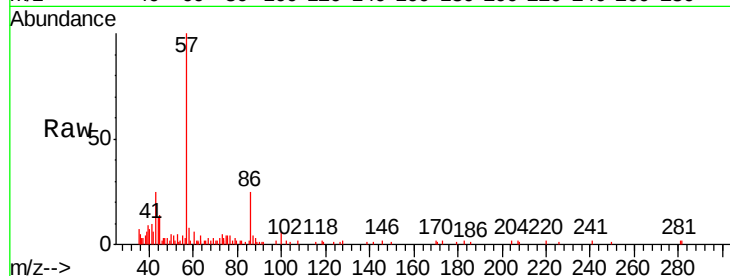




#49
1,4-Dioxane
Concen: Below Cal
RT: 7.75 min Scan# 1082
Delta R.T. 0.00 min
Lab File: VX006899.D
Acq: 03 Jan 2019 17:12

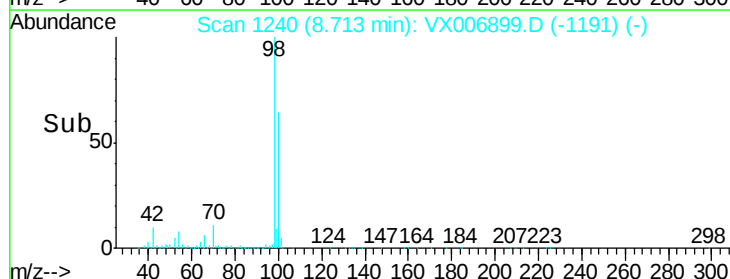
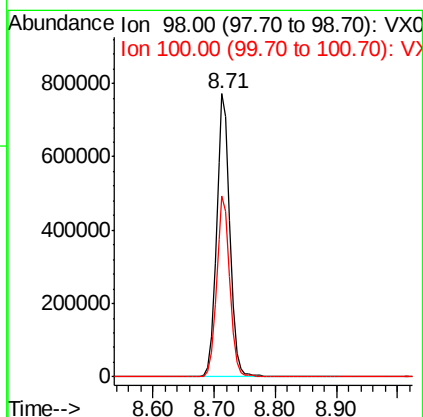
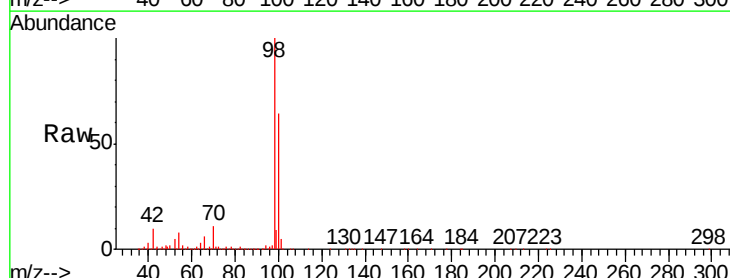
Instrument :
MSVOA_X
ClientSampleId :
AU-05-010219-C

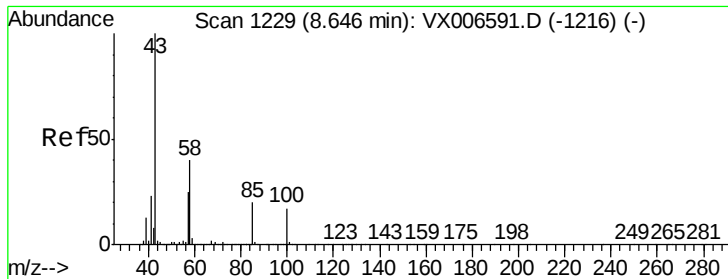
Tgt Ion: 88 Resp: 93
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.4#
58 1162.4 51.0 76.4#



#50
Toluene-d8
Concen: 50.892 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX006899.D
Acq: 03 Jan 2019 17:12

Tgt Ion: 98 Resp: 1200331
Ion Ratio Lower Upper
98 100
100 63.6 52.0 78.0

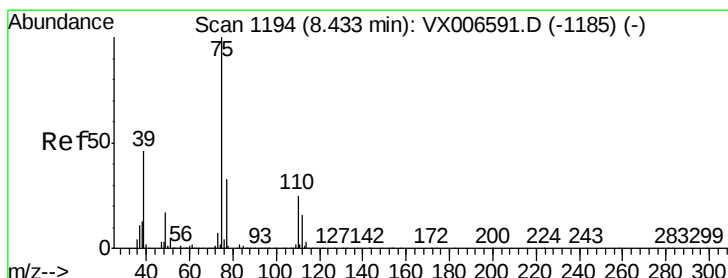
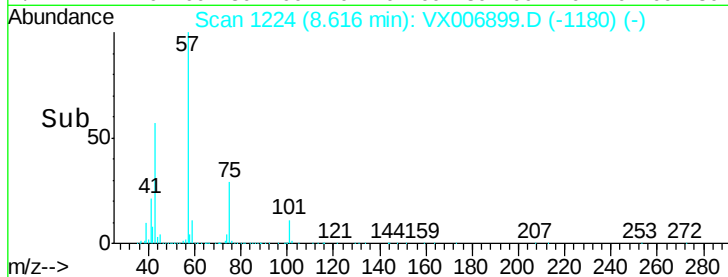
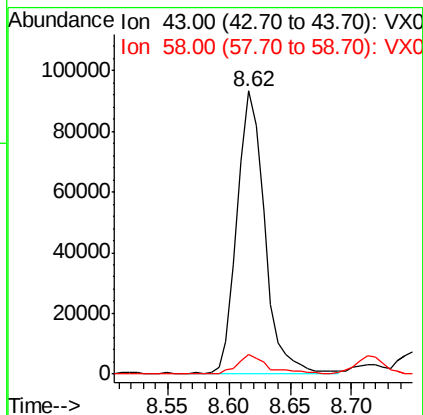
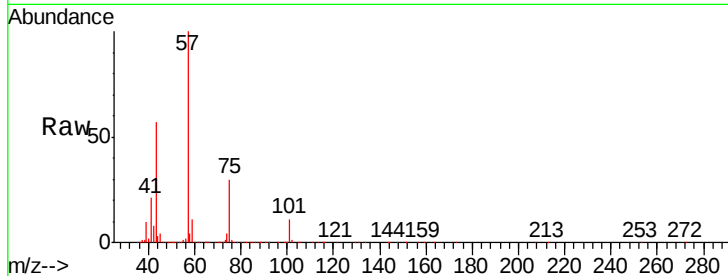




#51
 4-Methyl-2-Pentanone
 Concen: 17.634 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. -0.03 min
 Lab File: VX006899.D
 Acq: 03 Jan 2019 17:12

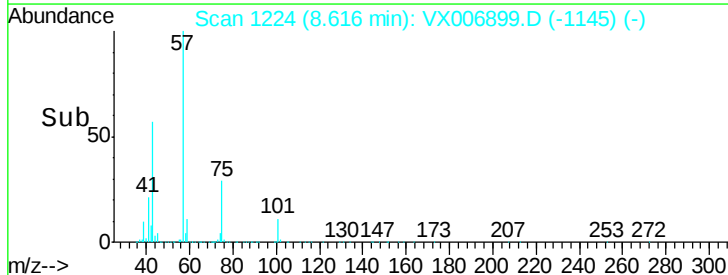
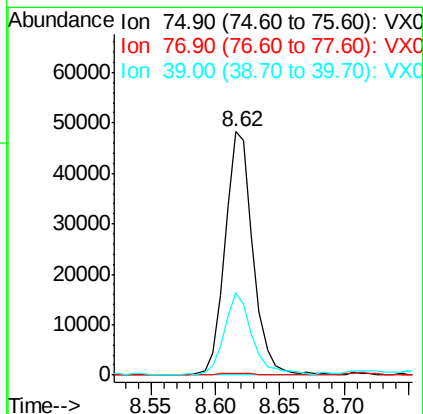
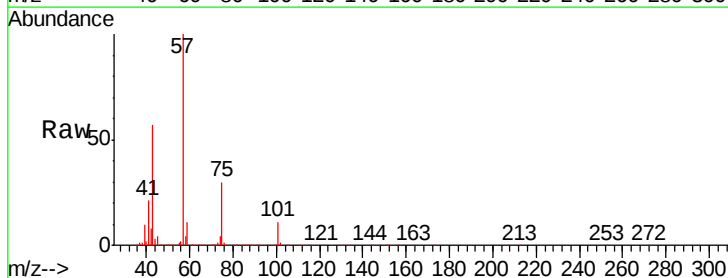
Instrument :
 MSVOA_X
 ClientSampleId :
 AU-05-010219-C

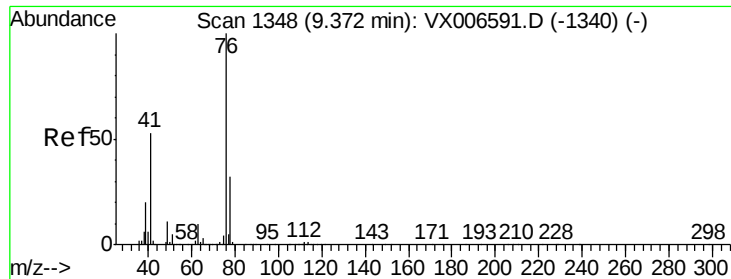
Tgt Ion: 43 Resp: 145591
 Ion Ratio Lower Upper
 43 100
 58 7.6 31.8 47.6#



#54
 cis-1,3-Dichloropropene
 Concen: 8.440 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX006899.D
 Acq: 03 Jan 2019 17:12

Tgt Ion: 75 Resp: 73511
 Ion Ratio Lower Upper
 75 100
 77 0.3 26.2 39.2#
 39 33.1 36.7 55.1#





#57

1,3-Dichloropropane

Concen: 1.684 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX006899.D

Acq: 03 Jan 2019 17:12

Instrument :

MSVOA_X

ClientSampleId :

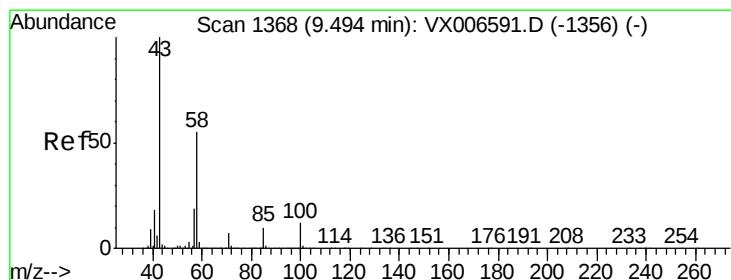
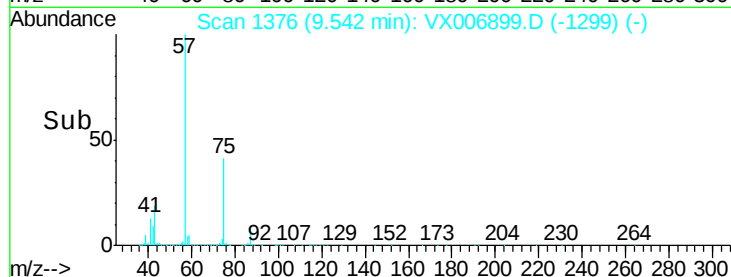
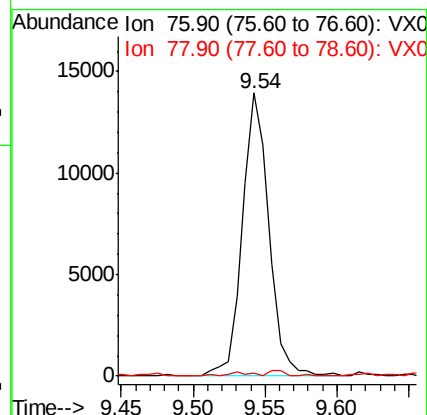
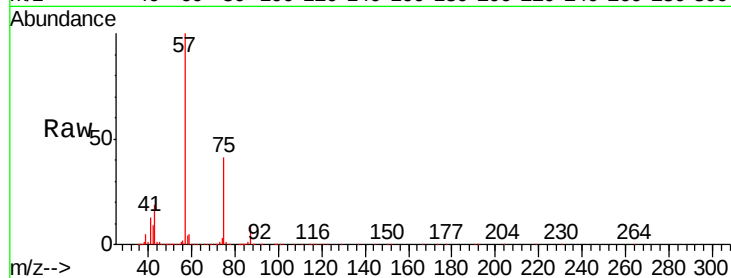
AU-05-010219-C

Tgt Ion: 76 Resp: 17848

Ion Ratio Lower Upper

76 100

78 1.5 26.0 39.0#



#59

2-Hexanone

Concen: 35.977 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX006899.D

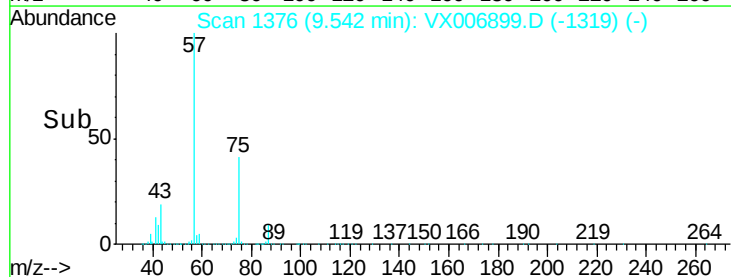
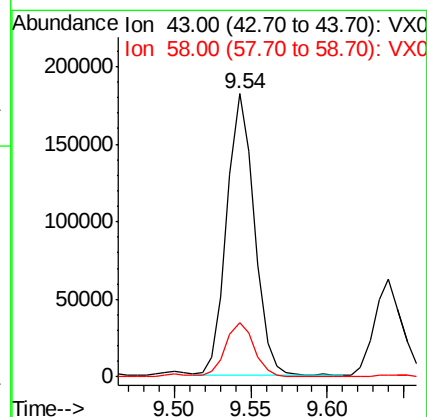
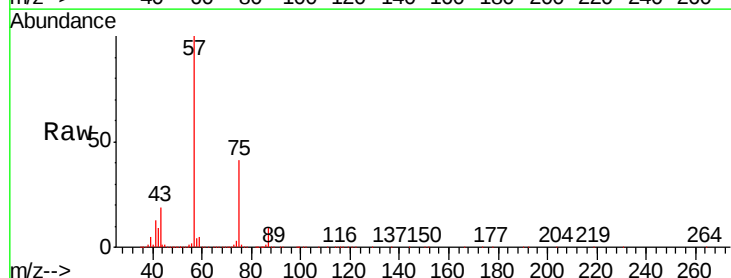
Acq: 03 Jan 2019 17:12

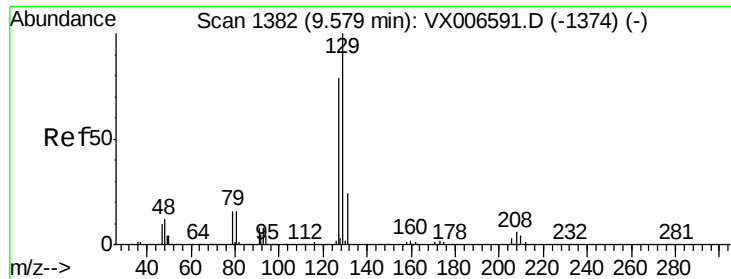
Tgt Ion: 43 Resp: 227266

Ion Ratio Lower Upper

43 100

58 20.2 27.7 83.1#





#60

Dibromochloromethane

Concen: 2.355 ug/l

RT: 9.59 min Scan# 1383

Delta R.T. 0.01 min

Lab File: VX006899.D

Acq: 03 Jan 2019 17:12

Instrument :

MSVOA_X

ClientSampleId :

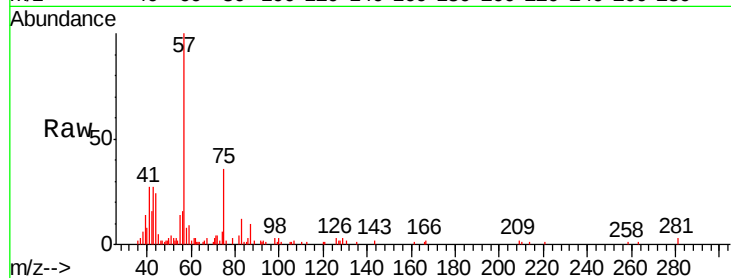
AU-05-010219-C

Tgt Ion:129 Resp: 224

Ion Ratio Lower Upper

129 100

127 73.2 39.3 117.8



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.59

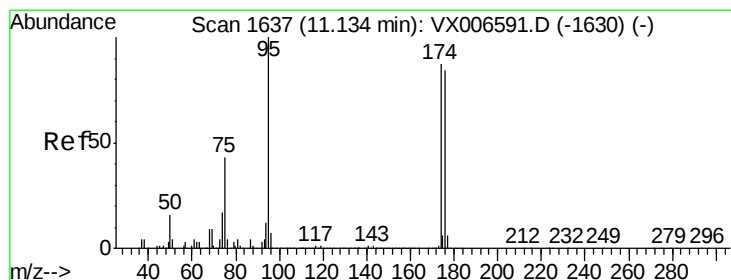
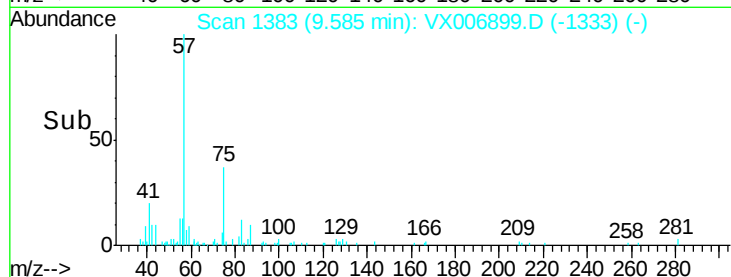
150

100

50

0

Time--> 9.54 9.56 9.58 9.60



#62

4-Bromofluorobenzene

Concen: 49.191 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006899.D

Acq: 03 Jan 2019 17:12

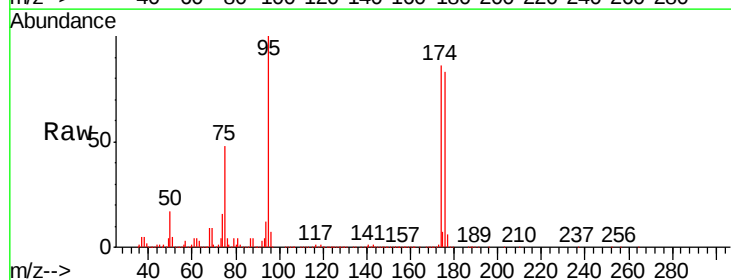
Tgt Ion: 95 Resp: 424921

Ion Ratio Lower Upper

95 100

174 93.1 0.0 182.2

176 90.1 0.0 178.8



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

400000

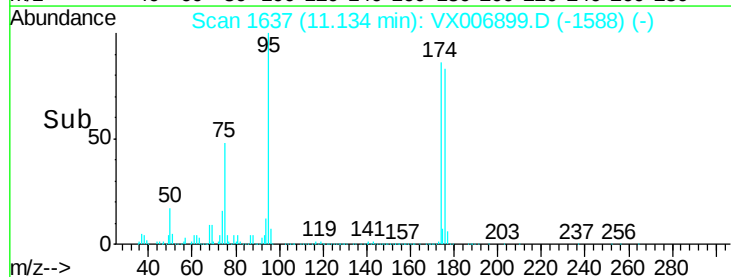
300000

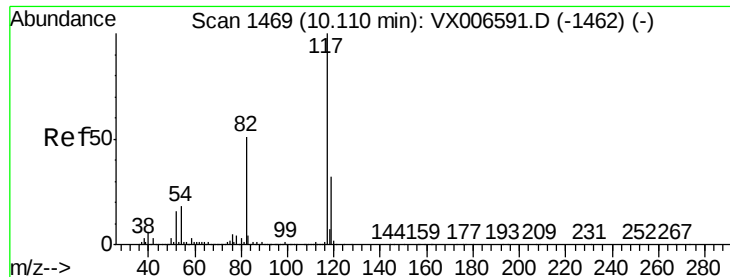
200000

100000

0

Time--> 11.10 11.20

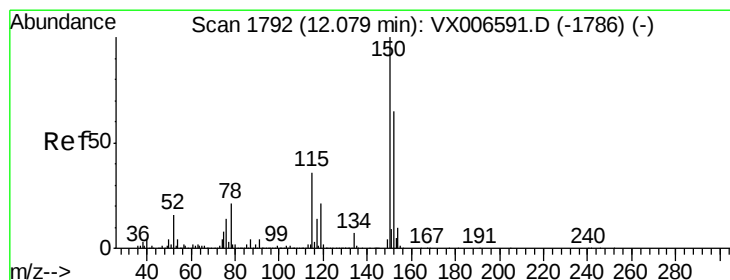
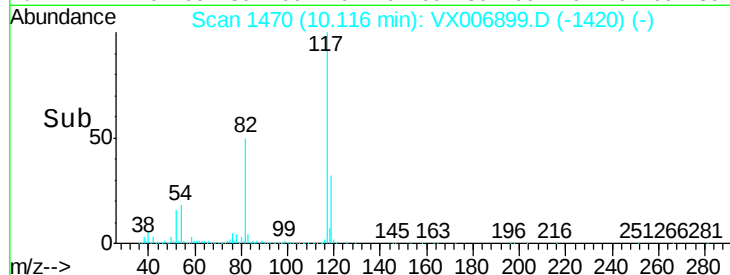
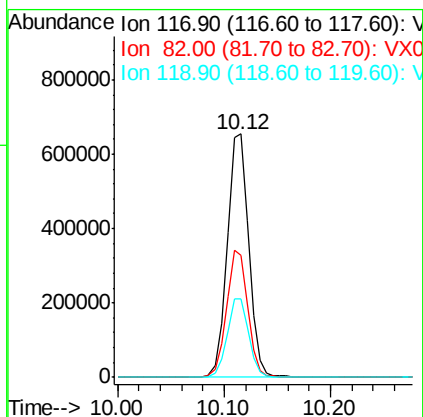
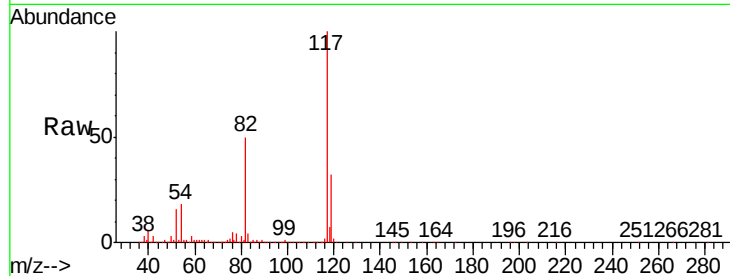




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006899.D
Acq: 03 Jan 2019 17:12

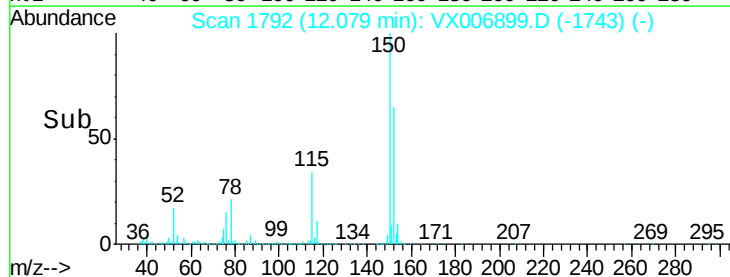
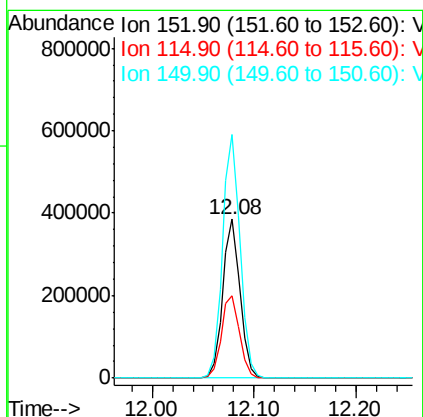
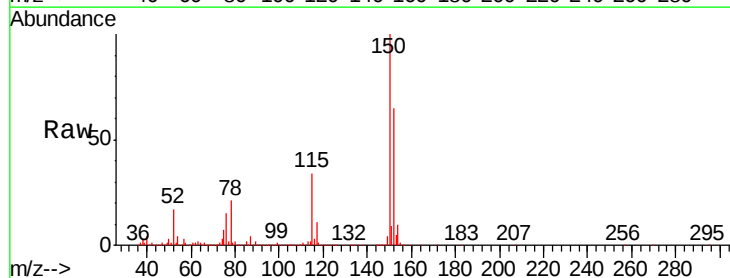
Instrument :
MSVOA_X
ClientSampleId :
AU-05-010219-C

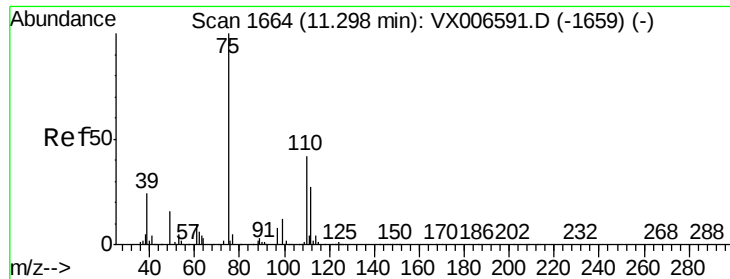
Tgt Ion:117 Resp: 929502
Ion Ratio Lower Upper
117 100
82 50.1 41.0 61.6
119 32.1 25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006899.D
Acq: 03 Jan 2019 17:12

Tgt Ion:152 Resp: 456999
Ion Ratio Lower Upper
152 100
115 54.1 39.1 117.2
150 154.6 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 23.697 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006899.D

Acq: 03 Jan 2019 17:12

Instrument :

MSVOA_X

ClientSampleId :

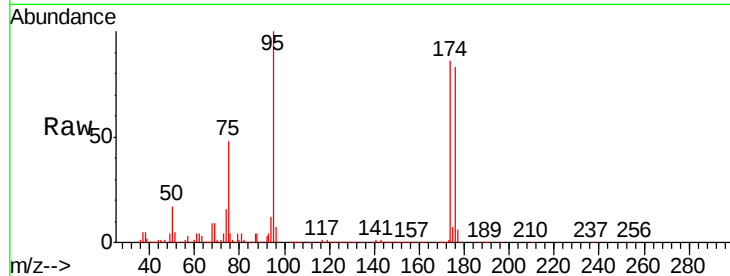
AU-05-010219-C

Tgt Ion: 75 Resp: 201259

Ion Ratio Lower Upper

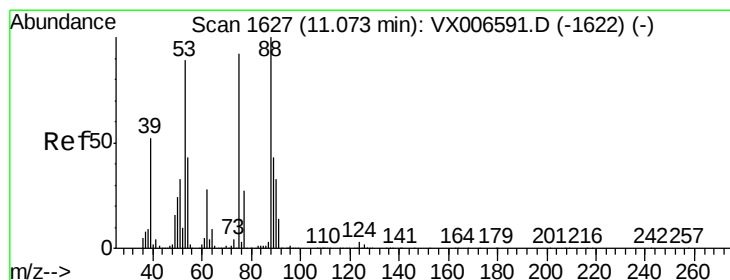
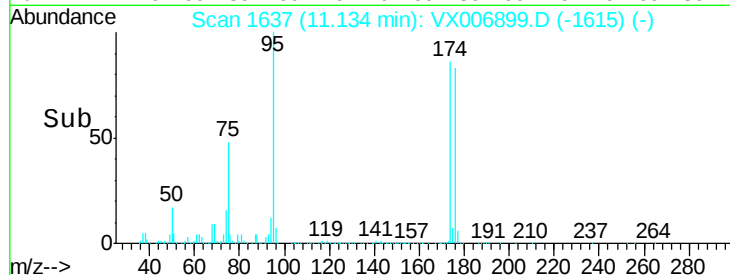
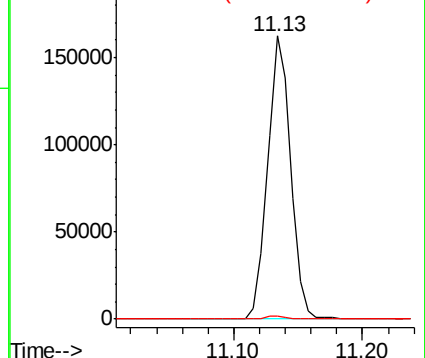
75 100

77 1.2 18.5 55.5#



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: 70.245 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006899.D

Acq: 03 Jan 2019 17:12

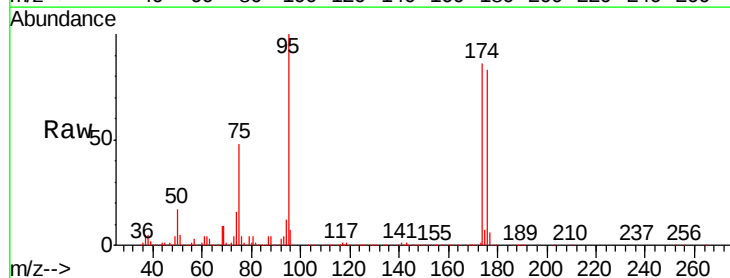
Tgt Ion: 75 Resp: 201259

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

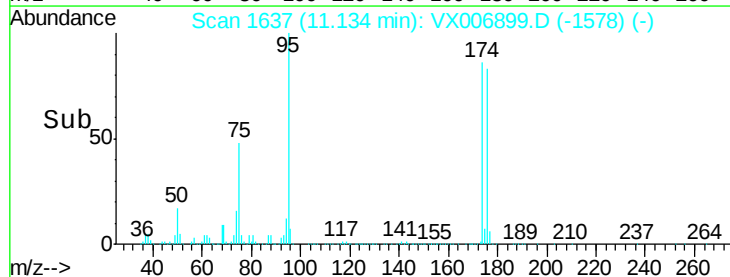
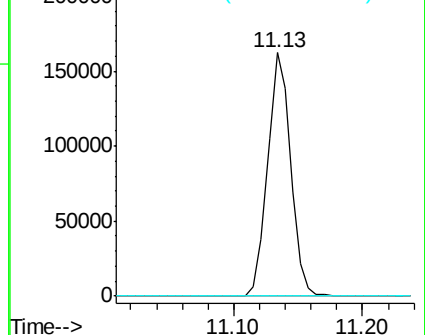
89 0.1 38.0 57.0#

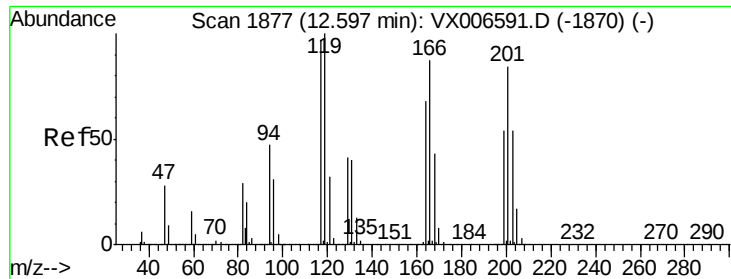


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 3.341 ug/l

RT: 12.60 min Scan# 1878

Delta R.T. 0.01 min

Lab File: VX006899.D

Acq: 03 Jan 2019 17:12

Instrument :

MSVOA_X

ClientSampleId :

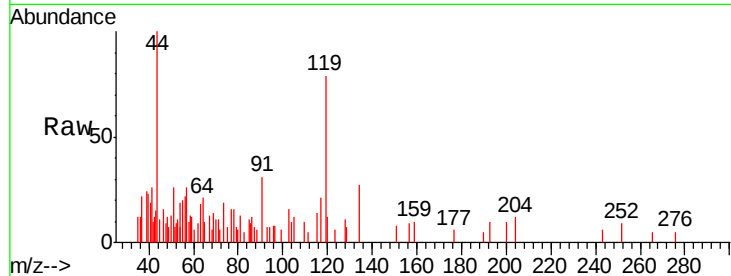
AU-05-010219-C

Tgt Ion:117 Resp: 222

Ion Ratio Lower Upper

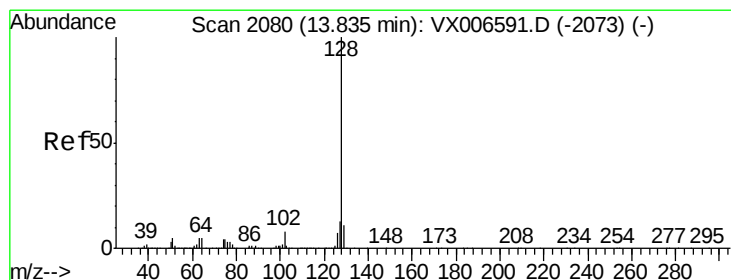
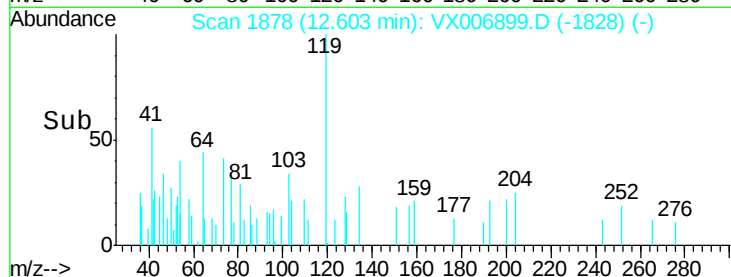
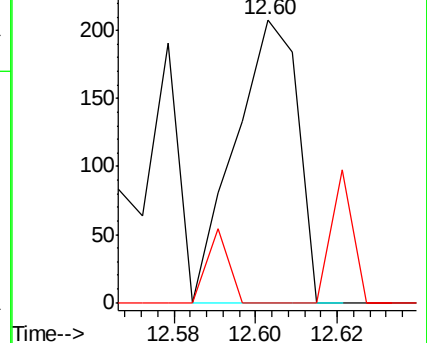
117 100

201 9.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 1.506 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX006899.D

Acq: 03 Jan 2019 17:12

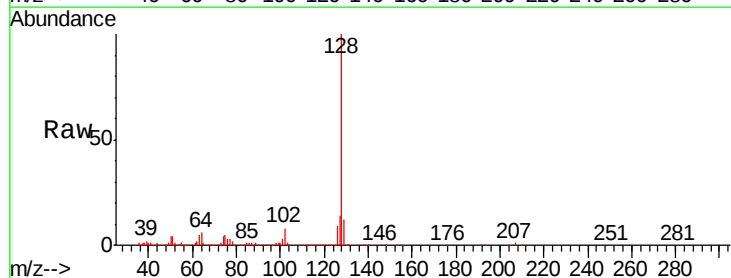
Tgt Ion:128 Resp: 50538

Ion Ratio Lower Upper

128 100

127 13.3 10.1 15.1

129 11.8 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

