

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX052819\
 Data File : VX009922.D
 Acq On : 28 May 2019 18:07
 Operator : JC/SP
 Sample : K3032-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-ER-2019-1

Quant Time: May 29 04:12:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X052819W.M
 Quant Title : SW846 8260
 QLast Update : Wed May 29 04:00:56 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	180413	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	287960	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	258304	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	113635	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	121315	47.60	ug/l	0.00
Spiked Amount			Recovery	=	95.20%	
35) Dibromofluoromethane	5.50	113	87344	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	
50) Toluene-d8	8.71	98	365652	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	
62) 4-Bromofluorobenzene	11.13	95	122793	46.50	ug/l	0.00
Spiked Amount			Recovery	=	93.00%	

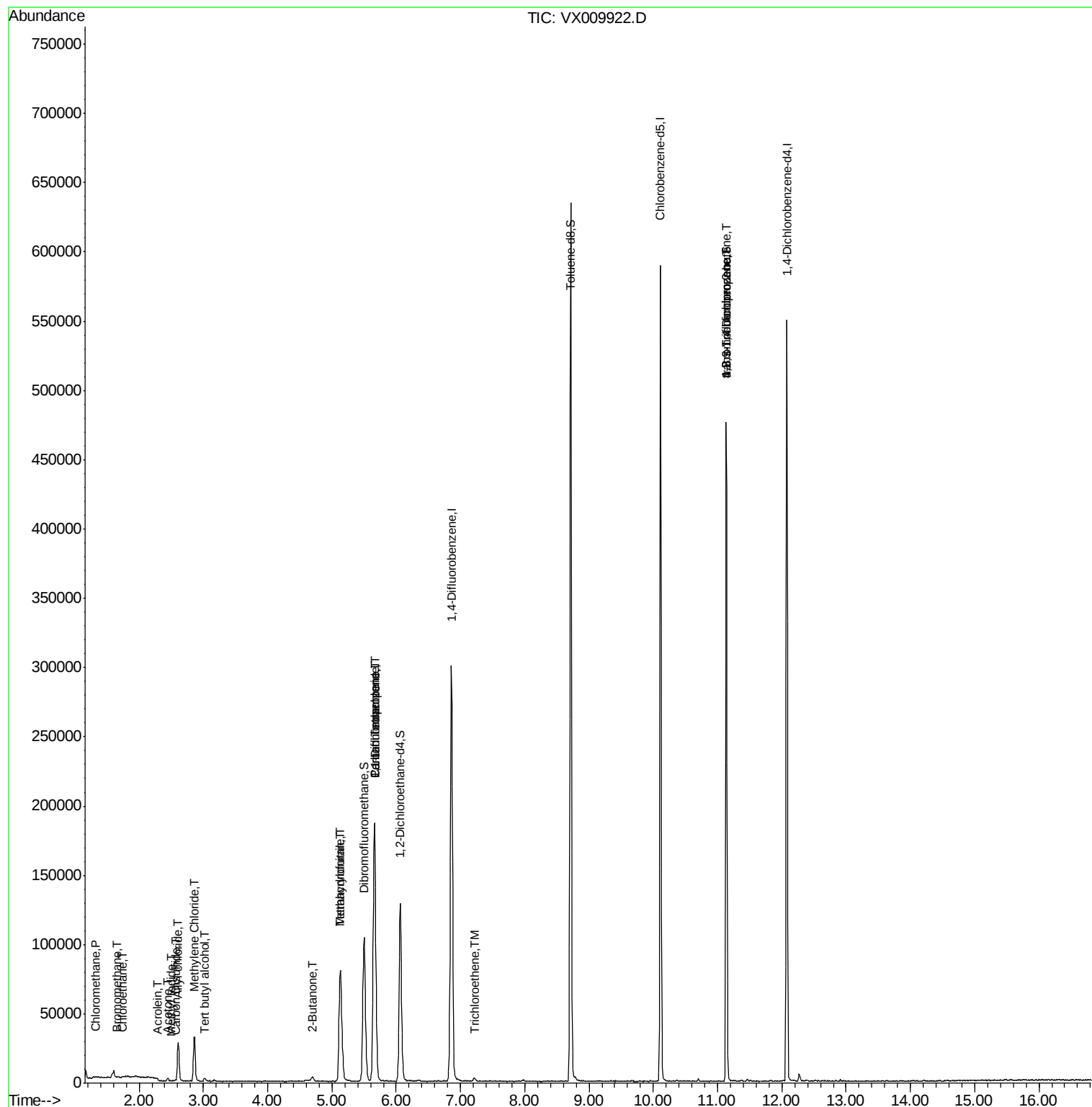
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	666	0.225	ug/l	96
5) Bromomethane	1.65	94	365	0.225	ug/l #	80
6) Chloroethane	1.75	64	602	0.366	ug/l #	43
10) Methyl Iodide	2.51	142	138	4.713	ug/l #	74
11) Tert butyl alcohol	3.01	59	1459	2.326	ug/l #	81
13) Acrolein	2.29	56	141	21.387	ug/l #	47
14) Allyl chloride	2.60	41	3205	0.722	ug/l #	61
16) Acetone	2.44	43	2644	1.796	ug/l #	87
17) Carbon Disulfide	2.57	76	1060	0.575	ug/l #	78
20) Methylene Chloride	2.86	84	14145	6.273	ug/l	97
25) 2-Butanone	4.70	43	1949	0.850	ug/l #	89
29) Tetrahydrofuran	5.13	42	84226	57.254	ug/l	99
36) 1,1-Dichloropropene	5.66	75	14409	4.932	ug/l #	51
38) Carbon Tetrachloride	5.66	117	17505	6.933	ug/l #	15
41) Methacrylonitrile	5.13	41	45567	19.155	ug/l #	50
44) Trichloroethene	7.21	130	946	0.449	ug/l	84
76) 1,2,3-Trichloropropane	11.13	75	63935	23.528	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	63935	58.213	ug/l #	10

(#) = 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. -0.00 min

Lab File: VX009922.D

Acq: 28 May 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

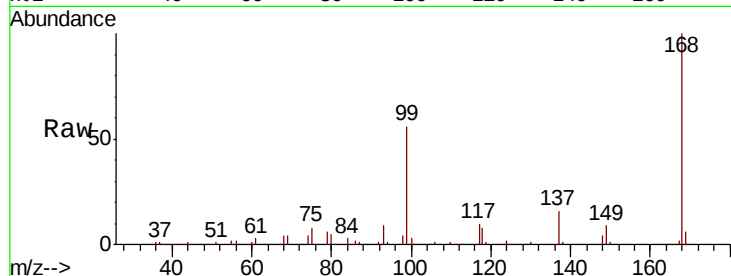
S32-ER-2019-1

Tot Ion:168 Resp: 180413

Ion Ratio Lower Upper

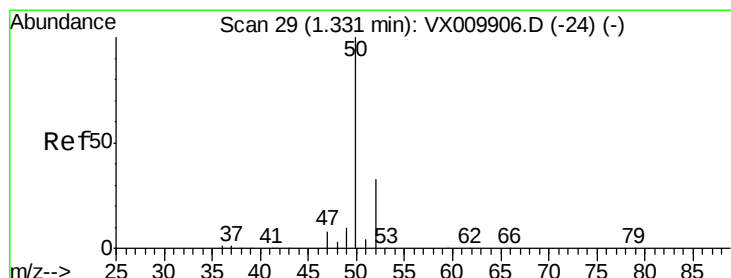
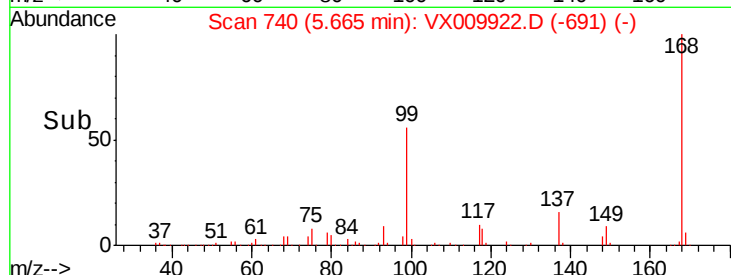
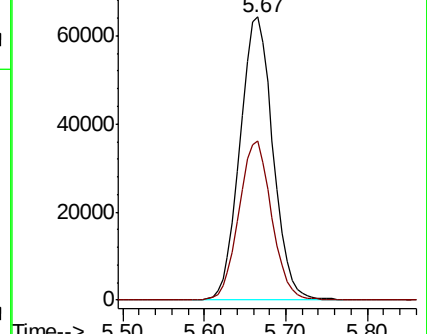
168 100

99 56.2 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.225 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX009922.D

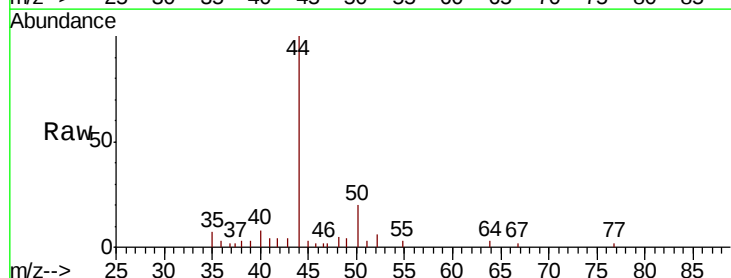
Acq: 28 May 2019 18:07

Tgt Ion: 50 Resp: 666

Ion Ratio Lower Upper

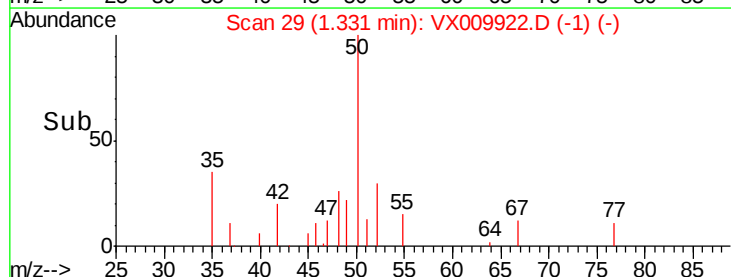
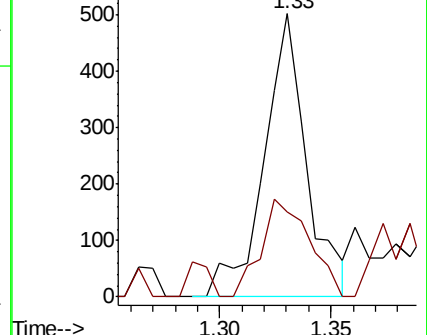
50 100

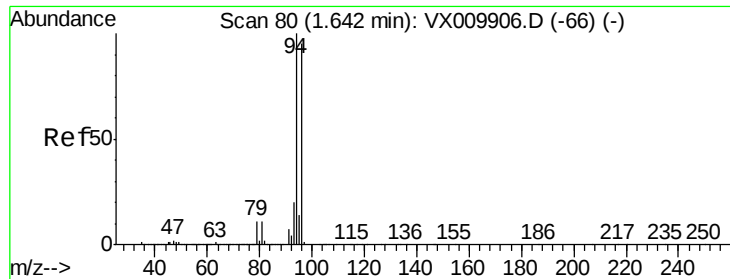
52 30.1 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.225 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX009922.D

Acq: 28 May 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

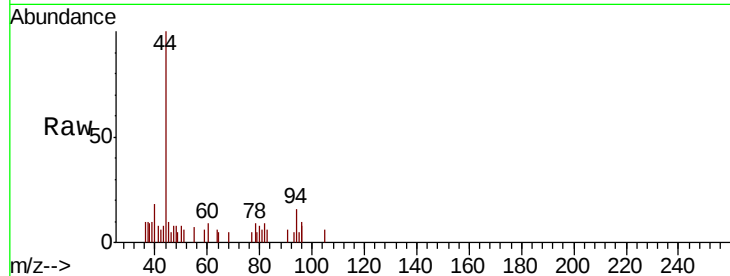
S32-ER-2019-1

Tot Ion: 94 Resp: 365

Ion Ratio Lower Upper

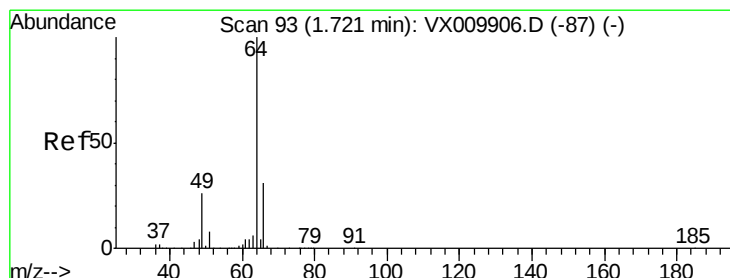
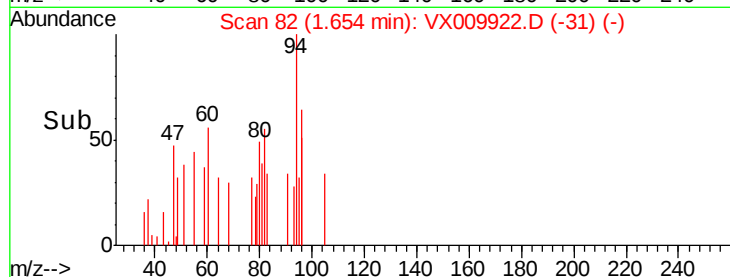
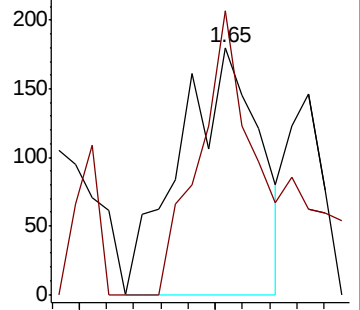
94 100

96 115.0 76.2 114.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.366 ug/l

RT: 1.75 min Scan# 97

Delta R.T. 0.02 min

Lab File: VX009922.D

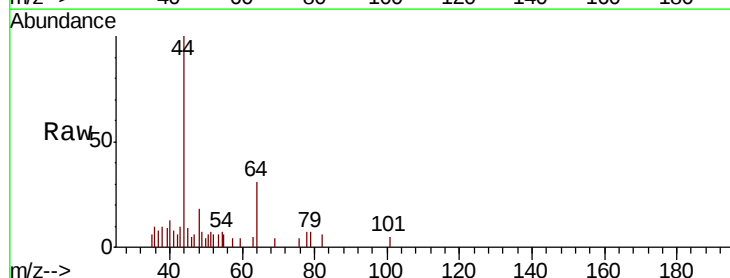
Acq: 28 May 2019 18:07

Tgt Ion: 64 Resp: 602

Ion Ratio Lower Upper

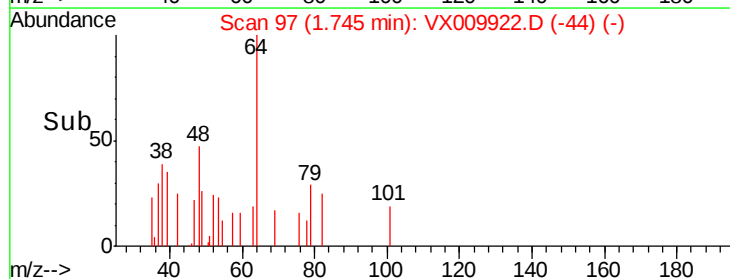
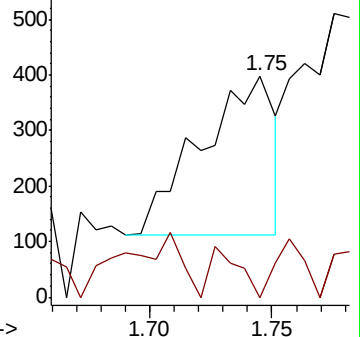
64 100

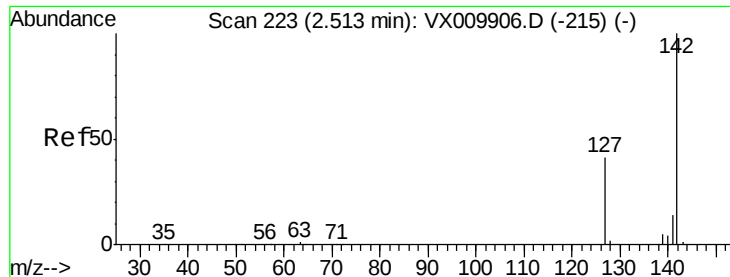
66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

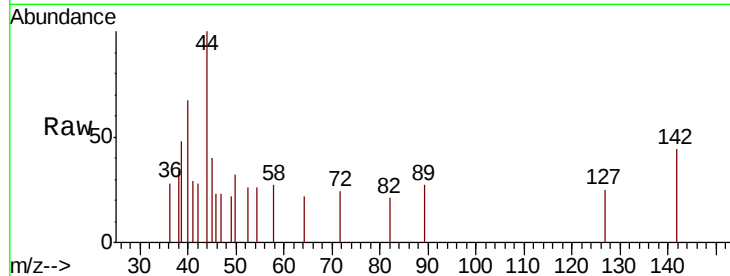




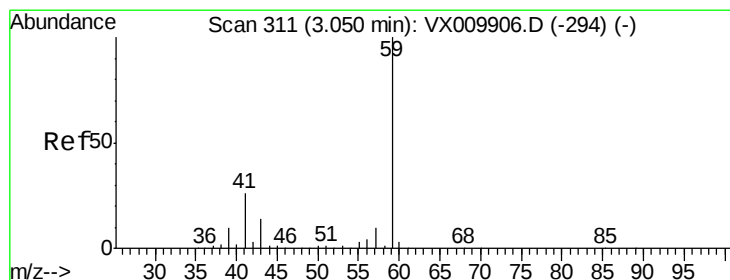
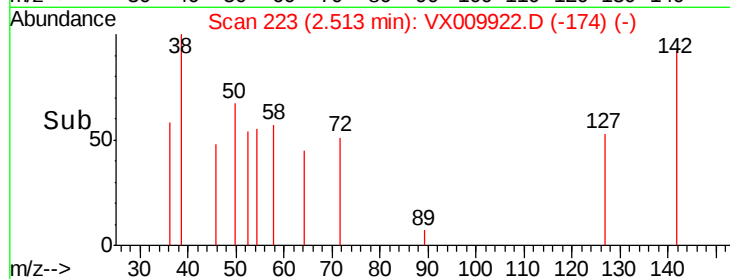
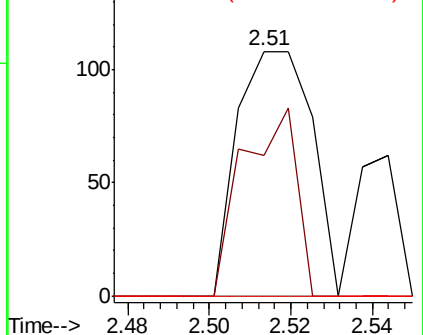
#10
Methvl Iodide
Concen: 4.713 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.00 min
Lab File: VX009922.D
Acq: 28 May 2019 18:07

Instrument :
MSVOA_X
ClientSampled :
S32-ER-2019-1

Tot Ion:142 Resp: 138
Ion Ratio Lower Upper
142 100
127 55.8 33.0 49.4#
141 0.0 11.4 17.0#

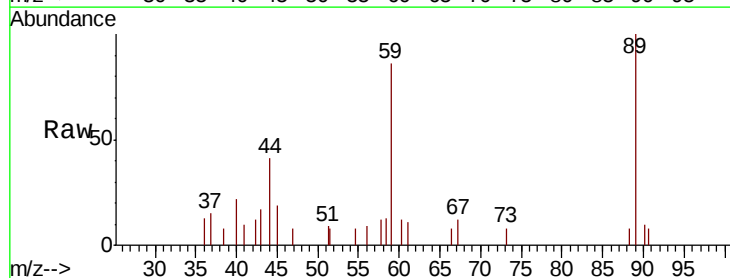


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

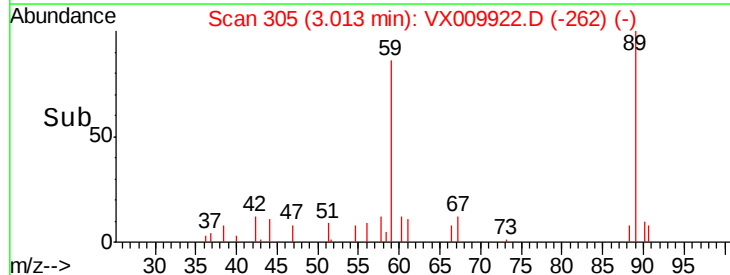
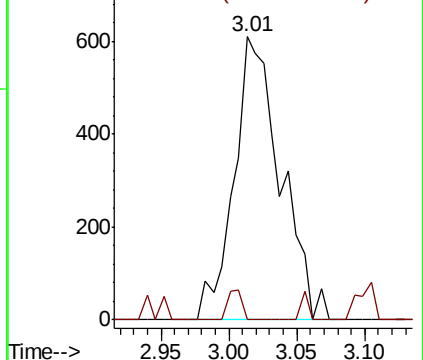


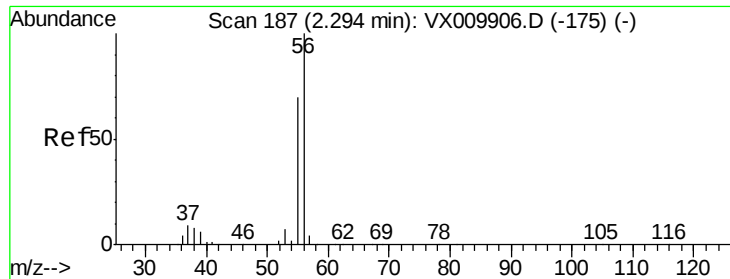
#11
Tert butyl alcohol
Concen: 2.326 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX009922.D
Acq: 28 May 2019 18:07

Tgt Ion: 59 Resp: 1459
Ion Ratio Lower Upper
59 100
57 3.2 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: 21.387 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX009922.D

Acq: 28 May 2019 18:07

Instrument :

MSVOA_X

ClientSampled :

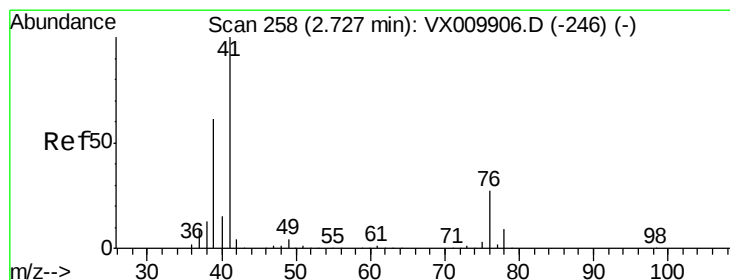
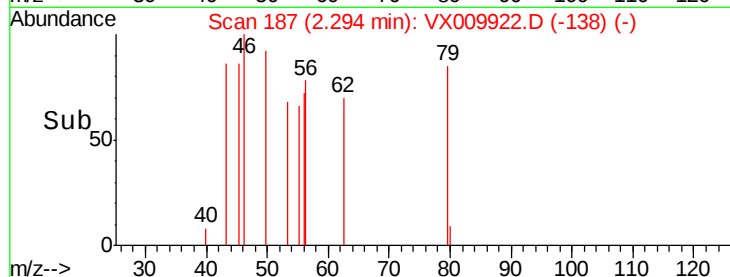
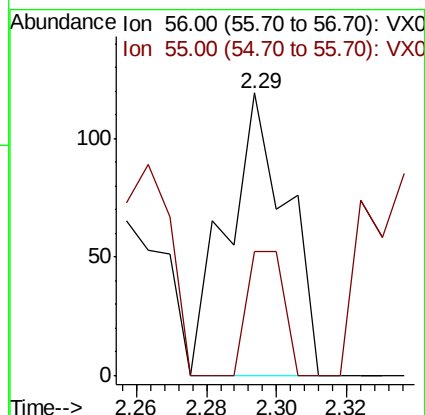
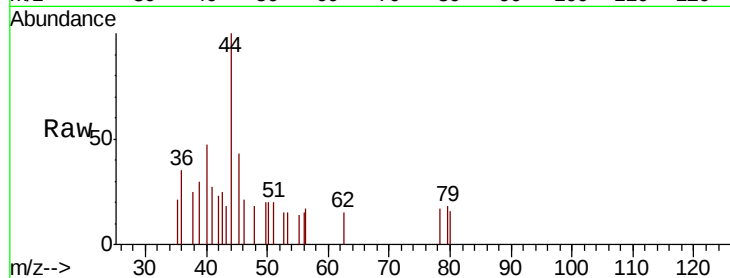
S32-ER-2019-1

Tot Ion: 56 Resp: 141

Ion Ratio Lower Upper

56 100

55 27.0 57.0 85.4#



#14

Allyl chloride

Concen: 0.722 ug/l

RT: 2.60 min Scan# 238

Delta R.T. -0.12 min

Lab File: VX009922.D

Acq: 28 May 2019 18:07

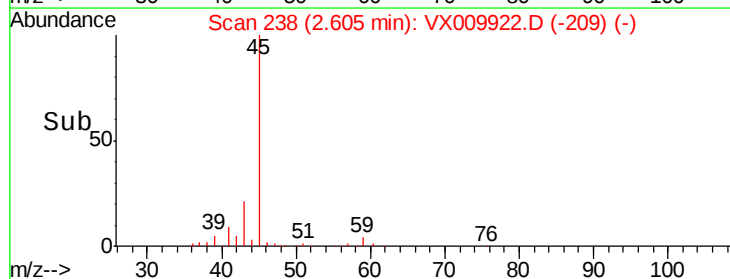
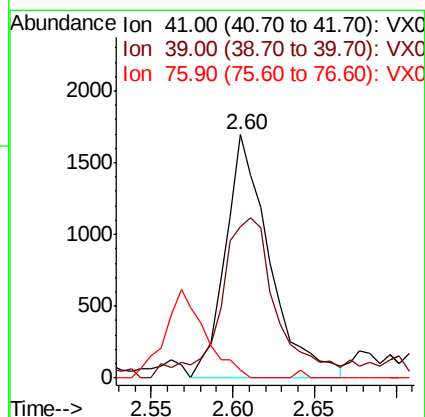
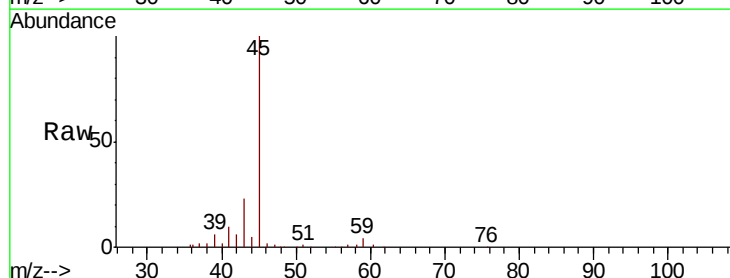
Tgt Ion: 41 Resp: 3205

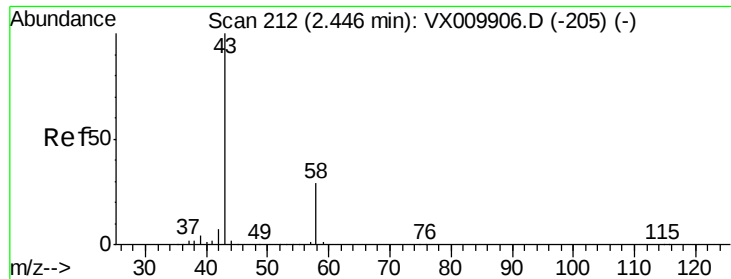
Ion Ratio Lower Upper

41 100

39 82.9 46.7 70.1#

76 0.0 21.0 31.4#





#16

Acetone

Concen: 1.796 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX009922.D

Acq: 28 May 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

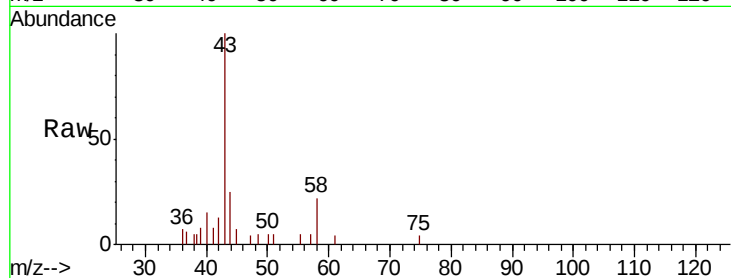
S32-ER-2019-1

Tot Ion: 43 Resp: 2644

Ion Ratio Lower Upper

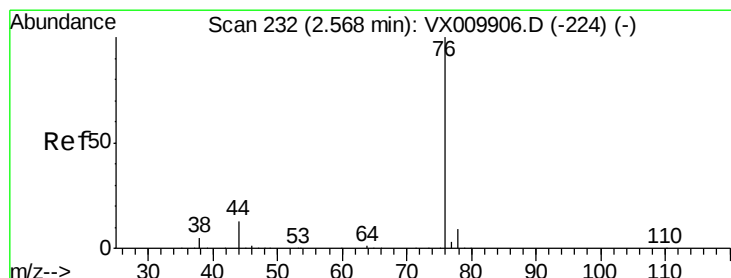
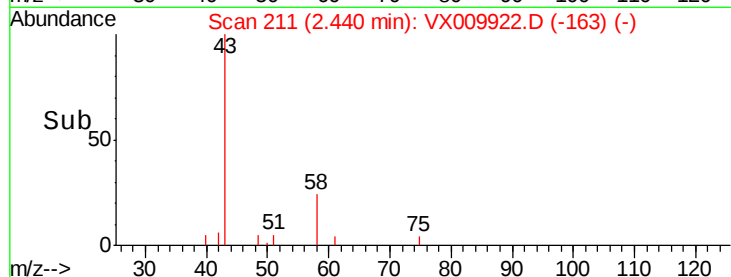
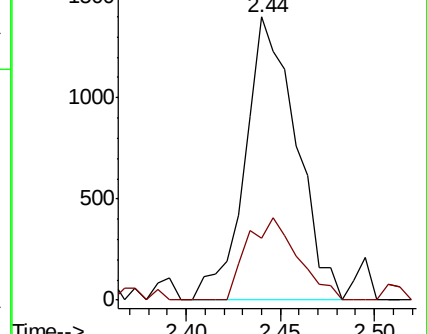
43 100

58 22.0 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.575 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX009922.D

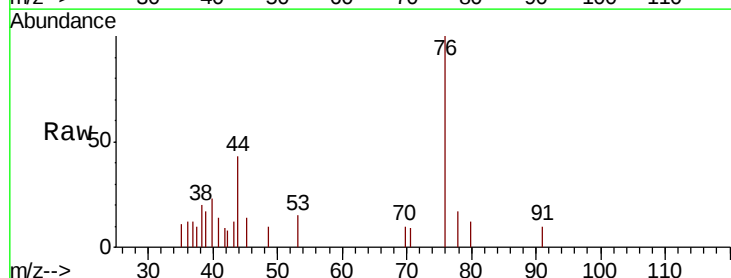
Acq: 28 May 2019 18:07

Tgt Ion: 76 Resp: 1060

Ion Ratio Lower Upper

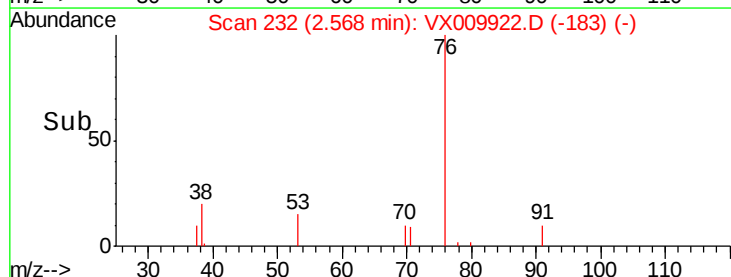
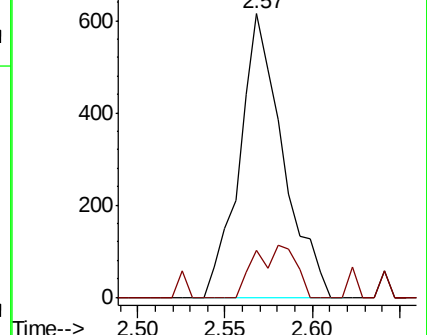
76 100

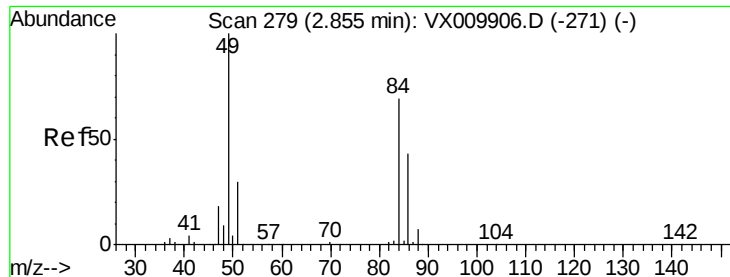
78 16.6 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

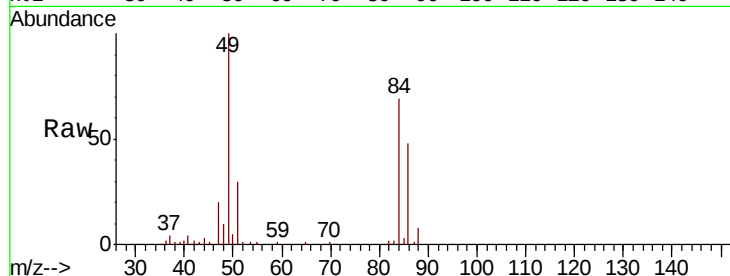




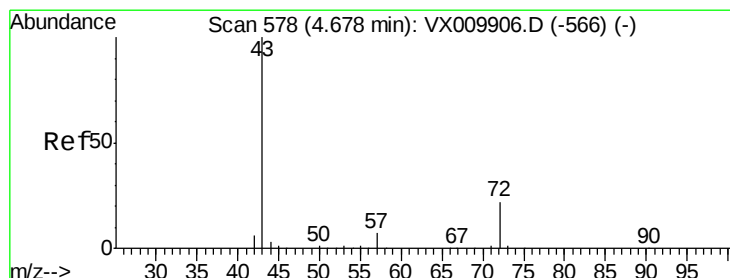
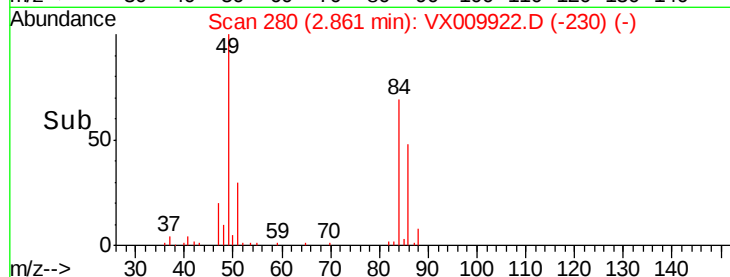
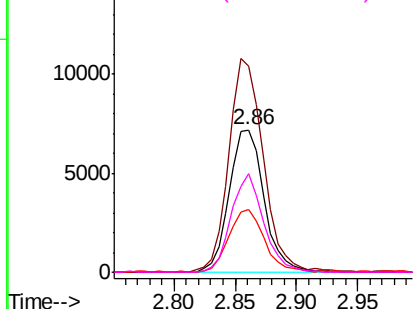
#20
Methvlene Chloride
Concen: 6.273 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX009922.D
Acq: 28 May 2019 18:07

Instrument :
MSVOA_X
ClientSampleId :
S32-ER-2019-1

Tot Ion: 84 Resp: 14145
Ion Ratio Lower Upper
84 100
49 145.0 115.8 173.6
51 44.2 34.4 51.6
86 69.6 49.7 74.5

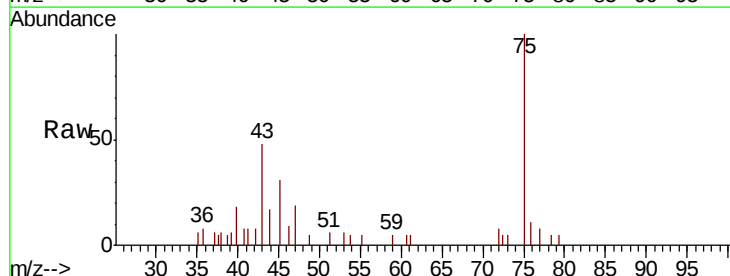


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

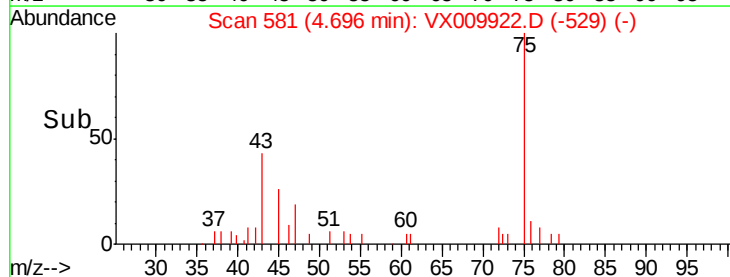
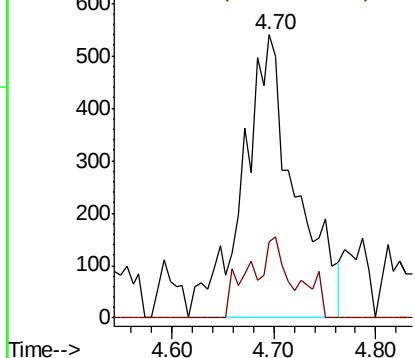


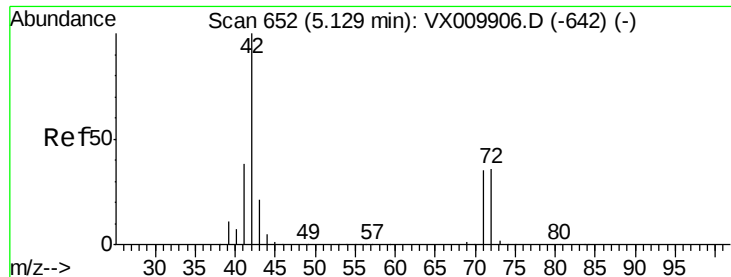
#25
2-Butanone
Concen: 0.850 ug/l
RT: 4.70 min Scan# 581
Delta R.T. 0.02 min
Lab File: VX009922.D
Acq: 28 May 2019 18:07

Tgt Ion: 43 Resp: 1949
Ion Ratio Lower Upper
43 100
72 27.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 57.254 ug/l

RT: 5.13 min Scan# 653

Delta R.T. 0.01 min

Lab File: VX009922.D

Acq: 28 May 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

S32-ER-2019-1

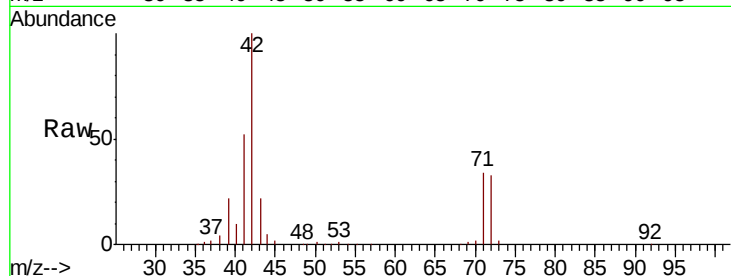
Tot Ion: 42 Resp: 84226

Ion Ratio Lower Upper

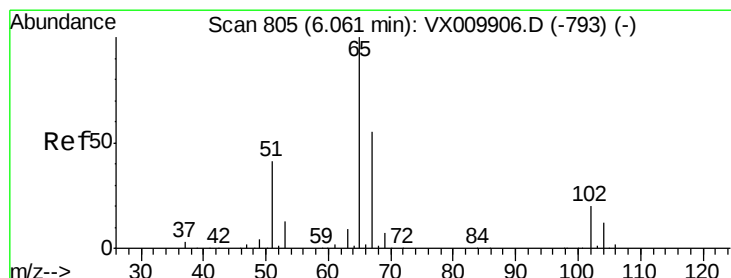
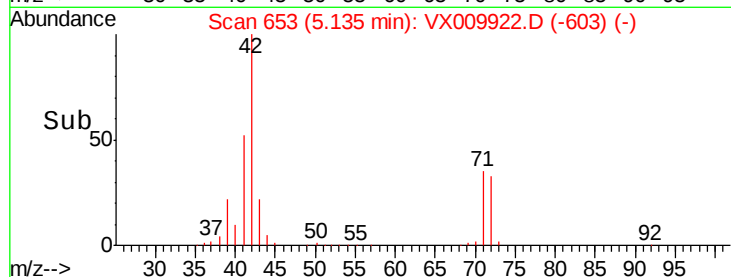
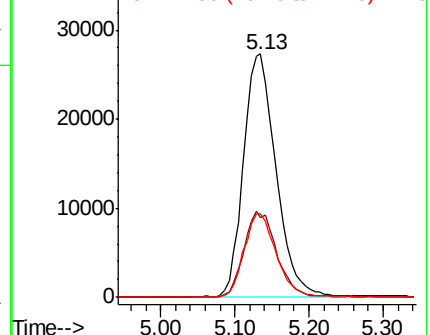
42 100

72 35.1 29.2 43.8

71 34.3 27.6 41.4



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



#33

1,2-Dichloroethane-d4

Concen: 47.603 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX009922.D

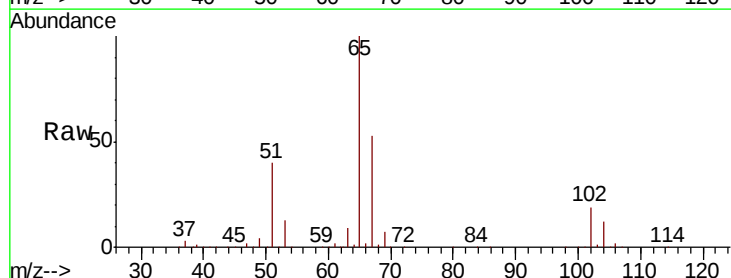
Acq: 28 May 2019 18:07

Tgt Ion: 65 Resp: 121315

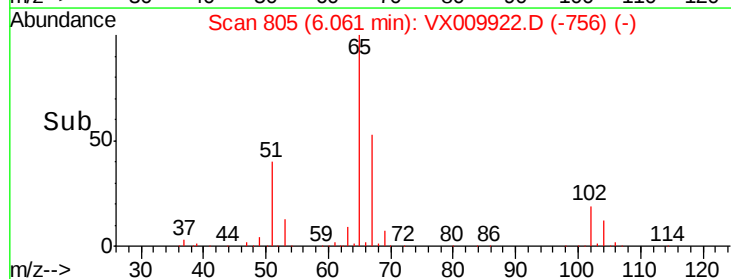
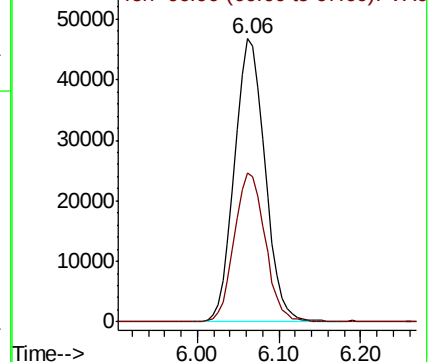
Ion Ratio Lower Upper

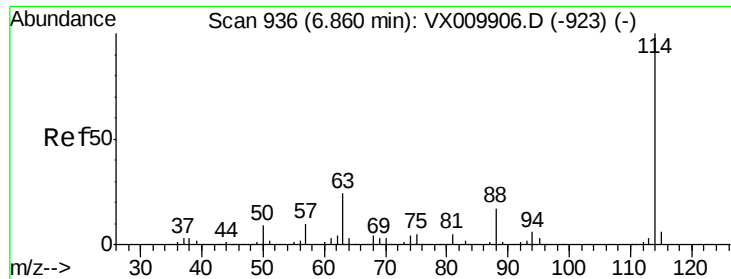
65 100

67 53.2 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

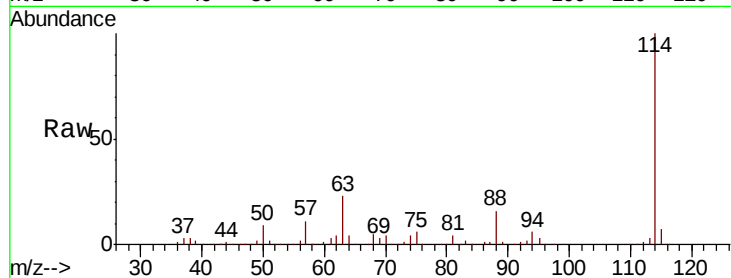




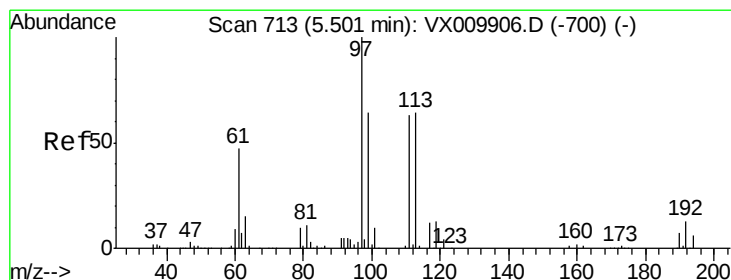
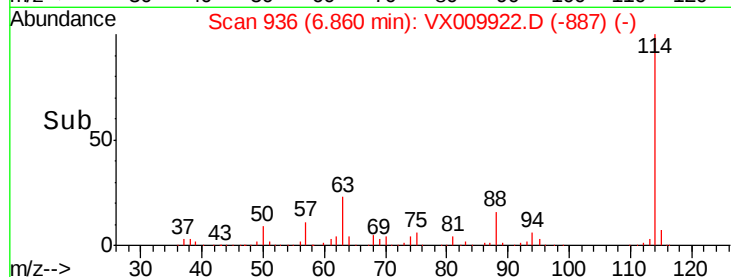
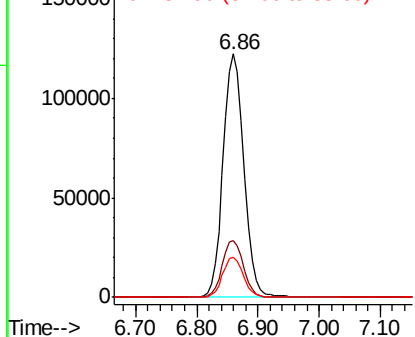
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX009922.D
Acq: 28 May 2019 18:07

Instrument :
MSVOA_X
ClientSampleId :
S32-ER-2019-1

Tot Ion:114 Resp: 287960
Ion Ratio Lower Upper
114 100
63 23.3 0.0 47.4
88 16.3 0.0 33.0

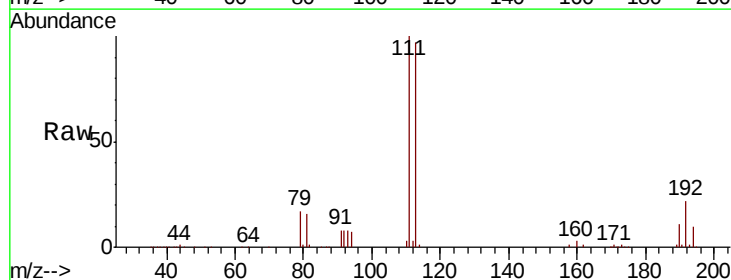


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

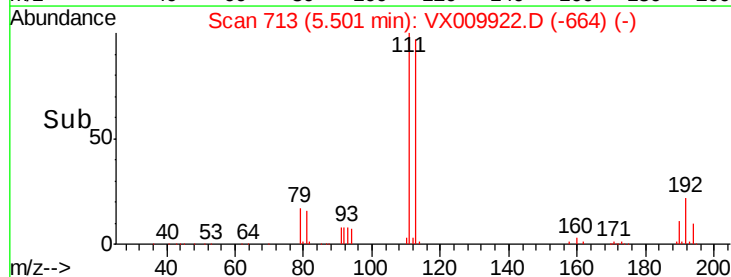
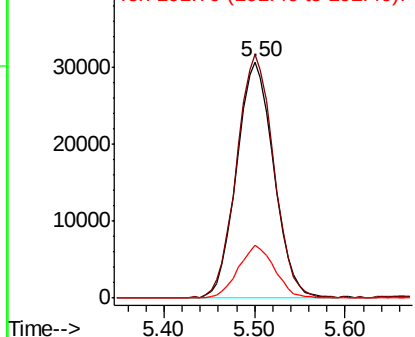


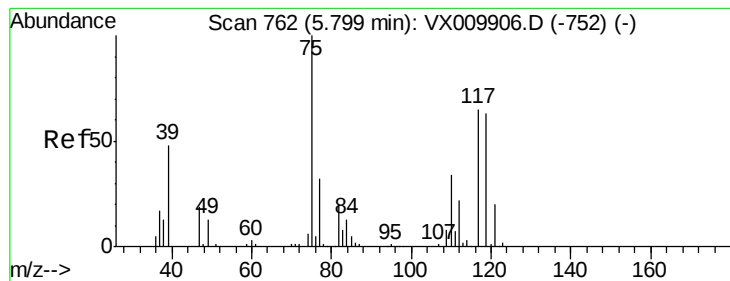
#35
Dibromofluoromethane
Concen: 48.245 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX009922.D
Acq: 28 May 2019 18:07

Tgt Ion:113 Resp: 87344
Ion Ratio Lower Upper
113 100
111 103.6 82.2 123.2
192 22.0 17.1 25.7



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: 4.932 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX009922.D

Acq: 28 May 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

S32-ER-2019-1

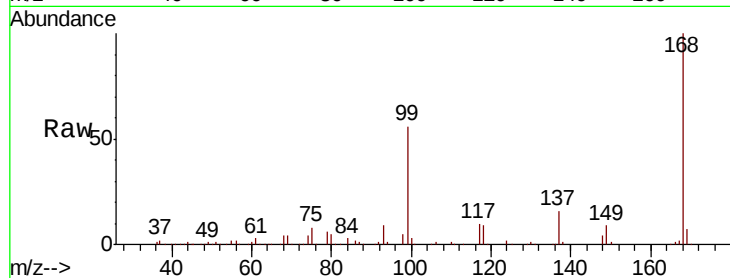
Tot Ion: 75 Resp: 14409

Ion Ratio Lower Upper

75 100

110 9.4 16.7 50.1#

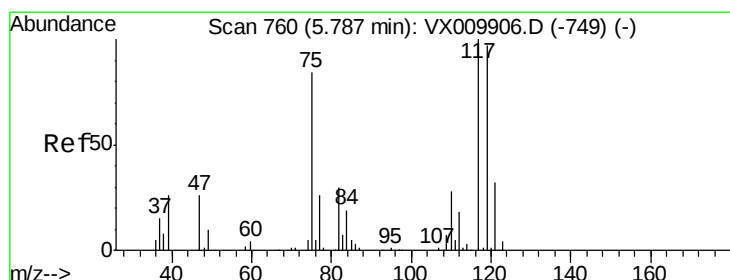
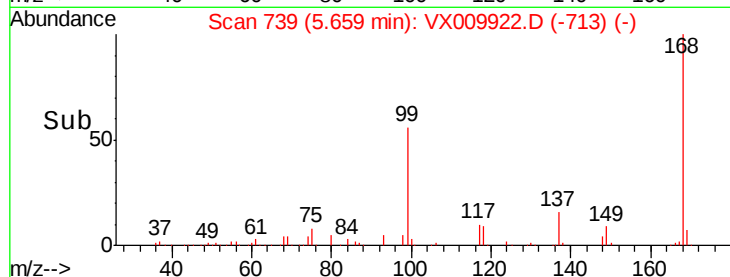
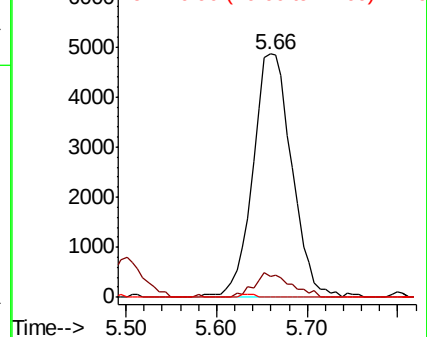
77 0.0 25.0 37.4#



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: 6.933 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX009922.D

Acq: 28 May 2019 18:07

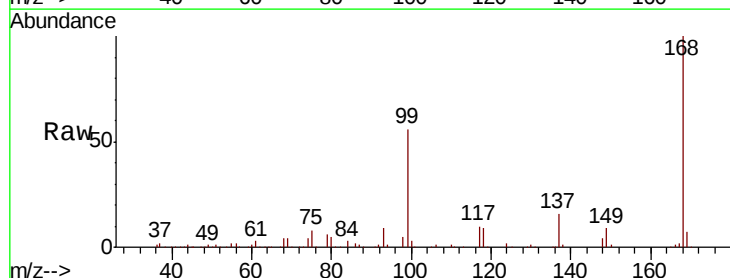
Tgt Ion: 117 Resp: 17505

Ion Ratio Lower Upper

117 100

119 4.4 77.3 115.9#

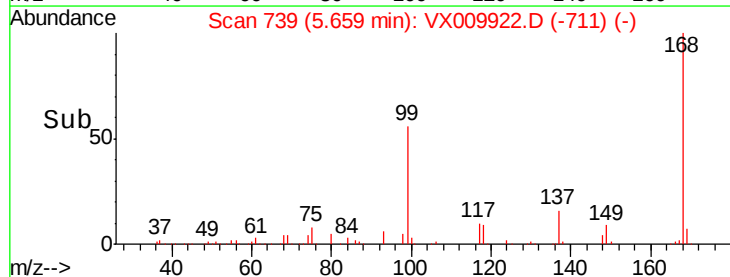
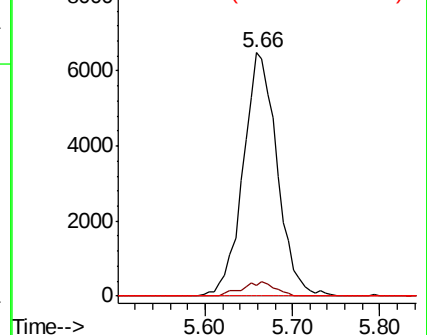
121 0.0 25.4 38.0#

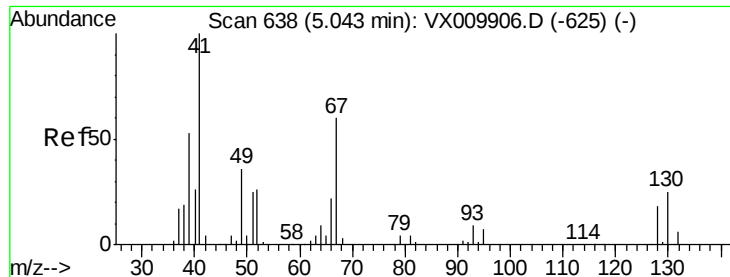


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

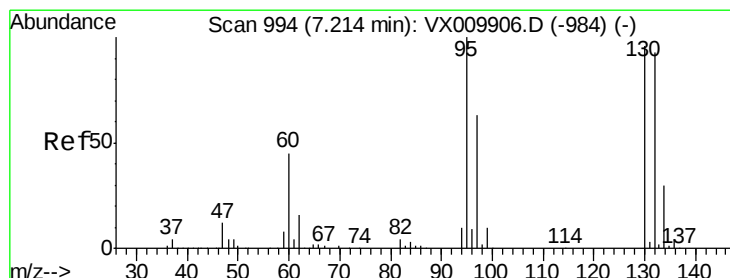
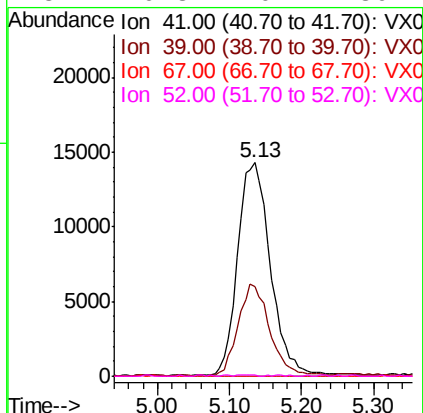
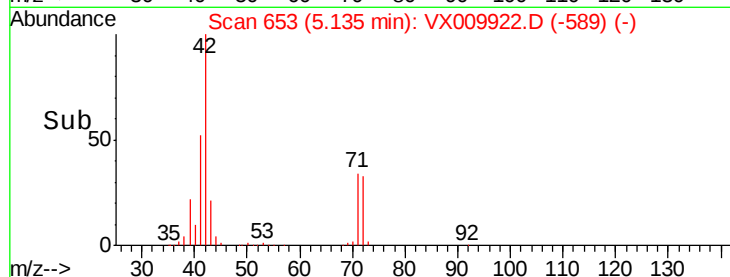
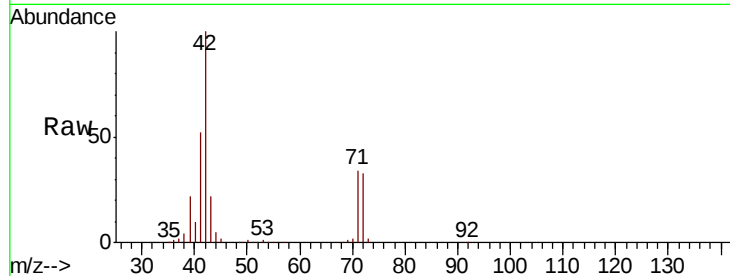




#41
Methacrylonitrile
Concen: 19.155 ug/l
RT: 5.13 min Scan# 653
Delta R.T. 0.09 min
Lab File: VX009922.D
Acq: 28 May 2019 18:07

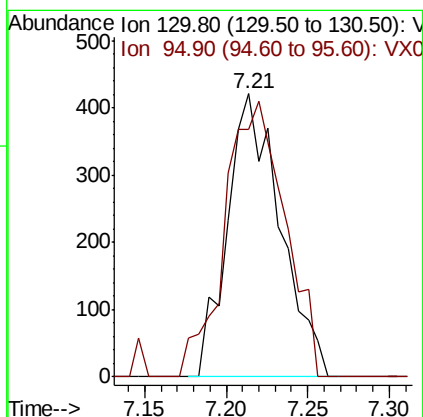
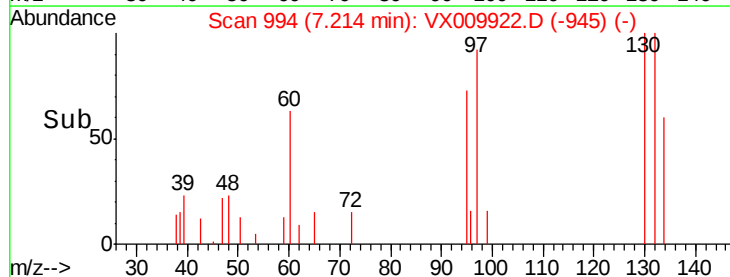
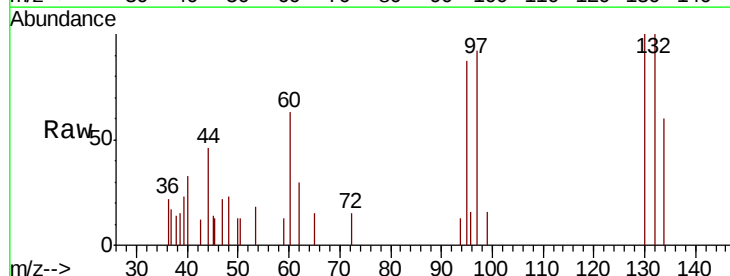
Instrument :
MSVOA_X
ClientSampled :
S32-ER-2019-1

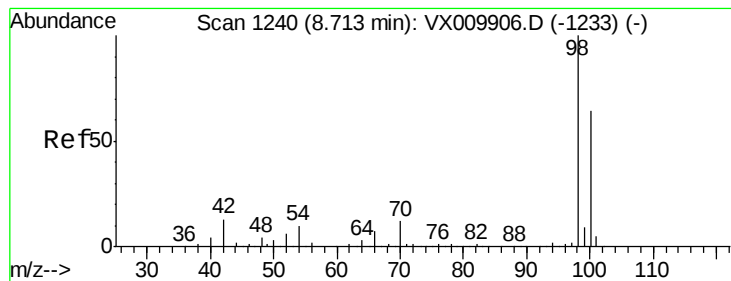
Tot Ion: 41 Resp: 45567
Ion Ratio Lower Upper
41 100
39 41.5 42.2 63.4#
67 0.0 48.9 73.3#
52 0.3 20.1 30.1#



#44
Trichloroethene
Concen: 0.449 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.00 min
Lab File: VX009922.D
Acq: 28 May 2019 18:07

Tgt Ion:130 Resp: 946
Ion Ratio Lower Upper
130 100
95 87.4 0.0 207.4





#50

Toluene-d8

Concen: 49.737 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX009922.D

Acq: 28 May 2019 18:07

Instrument :

MSVOA_X

ClientSampleId :

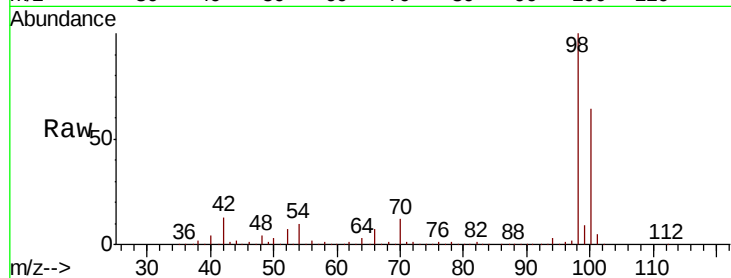
S32-ER-2019-1

Tot Ion: 98 Resp: 365652

Ion Ratio Lower Upper

98 100

100 63.8 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

250000

200000

150000

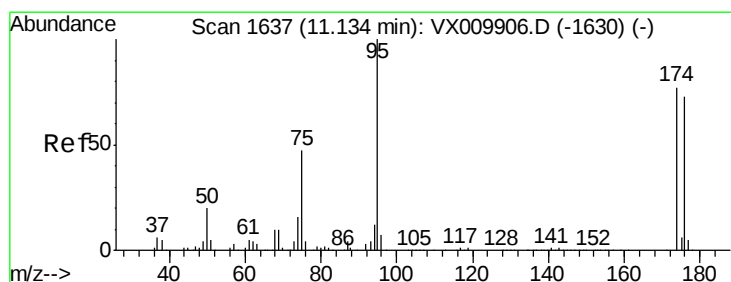
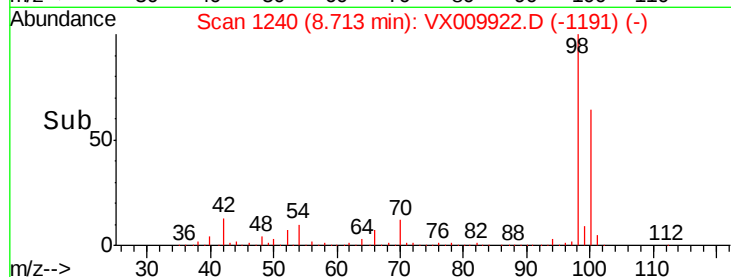
100000

50000

0

8.60 8.70 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 46.502 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX009922.D

Acq: 28 May 2019 18:07

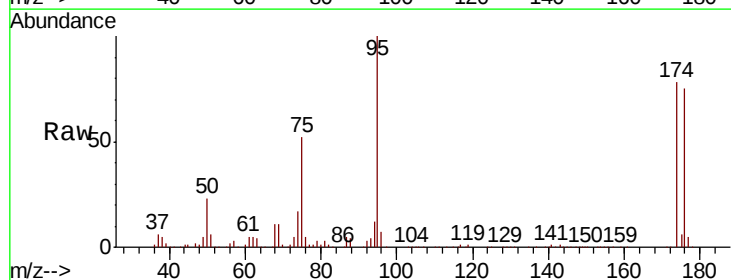
Tgt Ion: 95 Resp: 122793

Ion Ratio Lower Upper

95 100

174 81.2 0.0 160.4

176 79.5 0.0 154.6



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

120000

100000

80000

60000

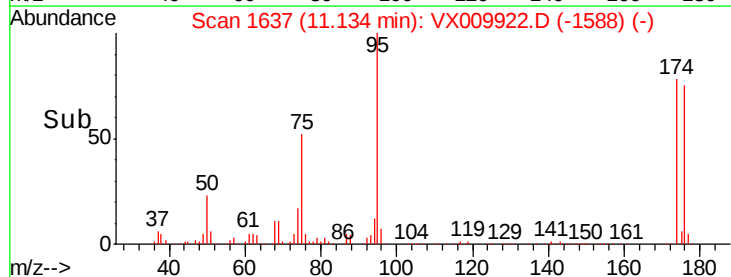
40000

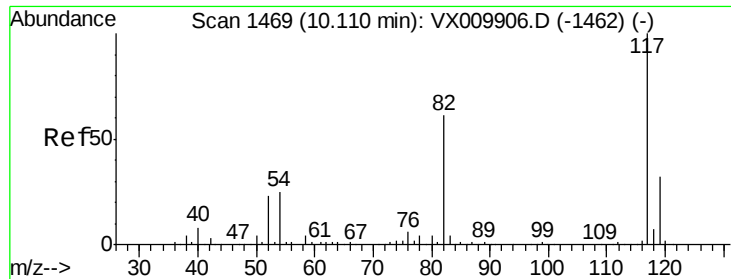
20000

0

11.05 11.10 11.15 11.20

Time-->

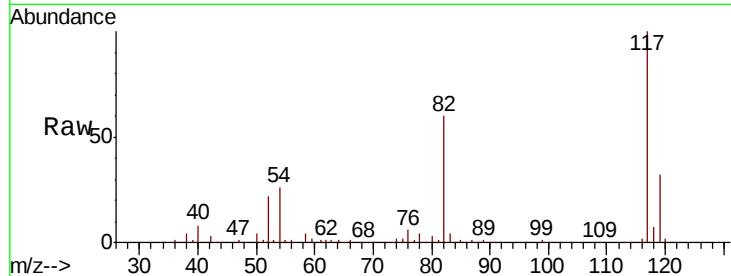




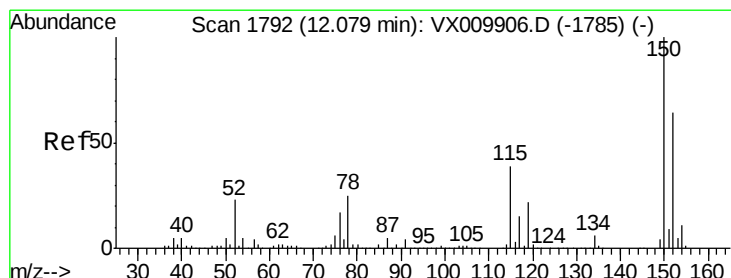
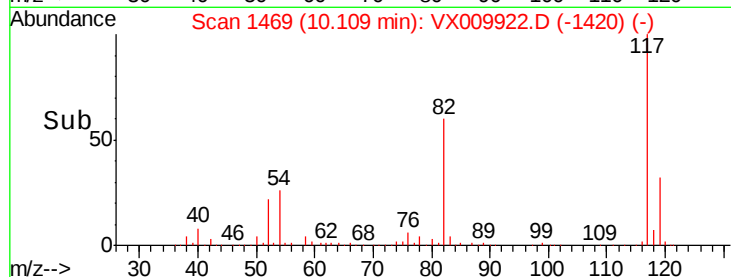
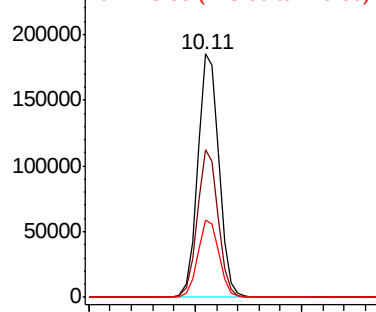
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX009922.D
Acq: 28 May 2019 18:07

Instrument :
MSVOA_X
ClientSampled :
S32-ER-2019-1

Tot Ion:117 Resp: 258304
Ion Ratio Lower Upper
117 100
82 60.5 49.2 73.8
119 32.0 25.2 37.8

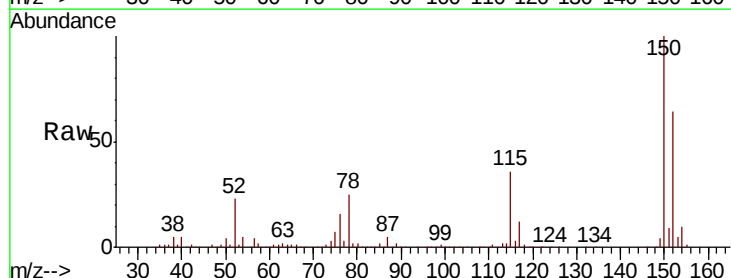


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

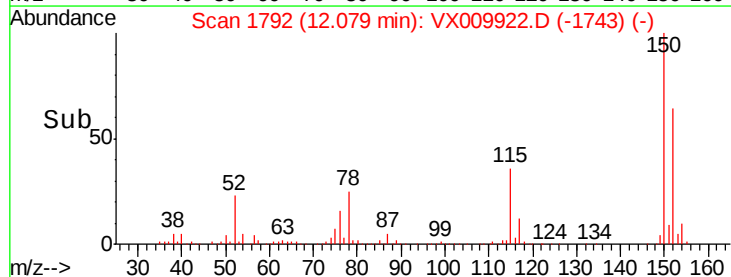
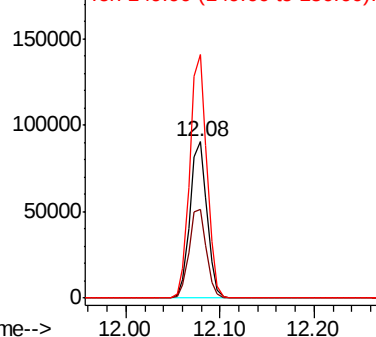


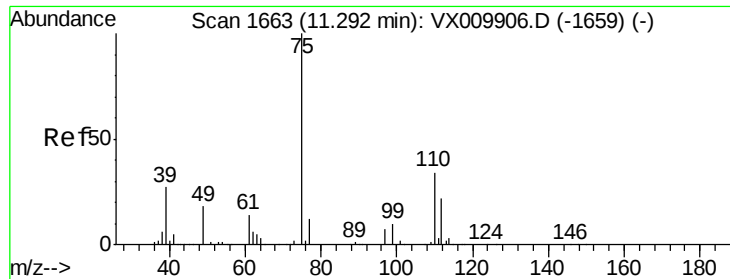
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX009922.D
Acq: 28 May 2019 18:07

Tgt Ion:152 Resp: 113635
Ion Ratio Lower Upper
152 100
115 57.9 41.4 124.2
150 156.2 0.0 345.2



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

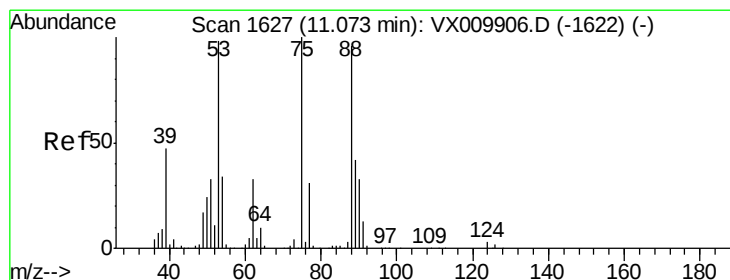
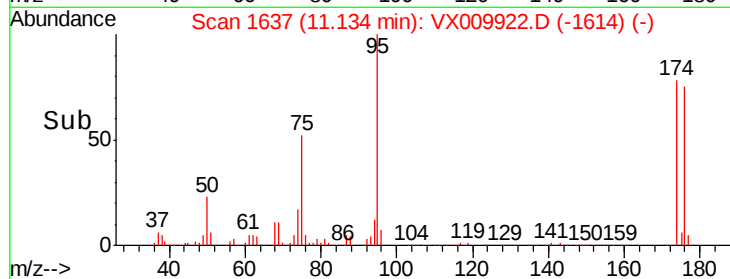
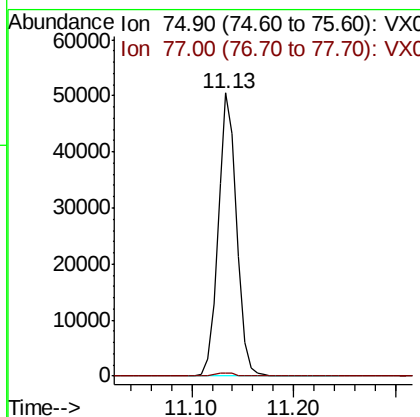
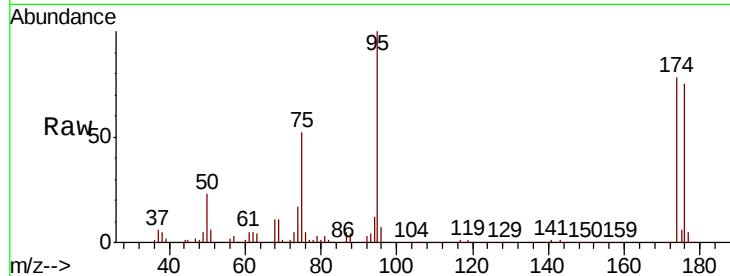




#76
 1,2,3-Trichloropropane
 Concen: 23.528 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX009922.D
 Acq: 28 May 2019 18:07

Instrument :
 MSVOA_X
 ClientSampleId :
 S32-ER-2019-1

Tot Ion: 75 Resp: 63935
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.1 66.1#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.213 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX009922.D
 Acq: 28 May 2019 18:07

Tgt Ion: 75 Resp: 63935
 Ion Ratio Lower Upper
 75 100
 53 0.2 79.8 119.6#
 89 0.0 34.2 51.4#

