

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032819\
 Data File : VX008510.D
 Acq On : 28 Mar 2019 11:35
 Operator : JC/SP
 Sample : K2115-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 QNWP8-EQUIP.BLANK

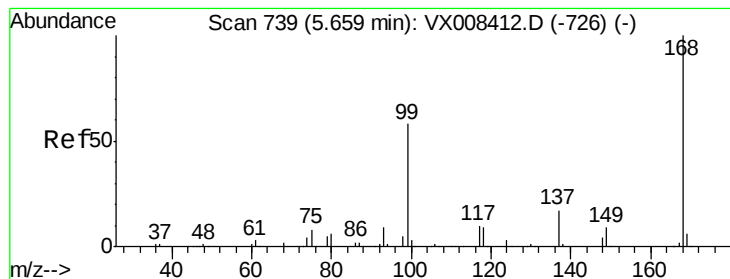
Quant Time: Mar 29 01:27:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 07:57:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	214803	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	360336	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	310636	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	129697	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	150032	46.07	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	92.14%	
35) Dibromofluoromethane	5.49	113	110745	47.13	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.26%	
50) Toluene-d8	8.71	98	449454	47.84	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	95.68%	
62) 4-Bromofluorobenzene	11.13	95	151676	43.57	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	87.14%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	582	Below Cal	#	70
5) Bromomethane	1.64	94	110	1.865	ug/l	96
6) Chloroethane	1.67	64	2549	1.217	ug/l #	80
10) Methyl Iodide	2.52	142	51	4.149	ug/l #	42
11) Tert butyl alcohol	3.01	59	4031	5.587	ug/l #	79
16) Acetone	2.44	43	11076	6.508	ug/l	98
17) Carbon Disulfide	2.57	76	1101	Below Cal	#	59
20) Methylene Chloride	2.85	84	1480	Below Cal	#	83
21) trans-1,2-Dichloroethene	3.18	96	168	Below Cal	#	26
31) Cyclohexane	5.66	56	5092	0.976	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	18268	4.755	ug/l #	51
38) Carbon Tetrachloride	5.65	117	21386	6.670	ug/l #	16
76) 1,2,3-Trichloropropane	11.13	75	77986	20.226	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	77986	64.780	ug/l #	9

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.00 min

Lab File: VX008510.D

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ClientSampleId :

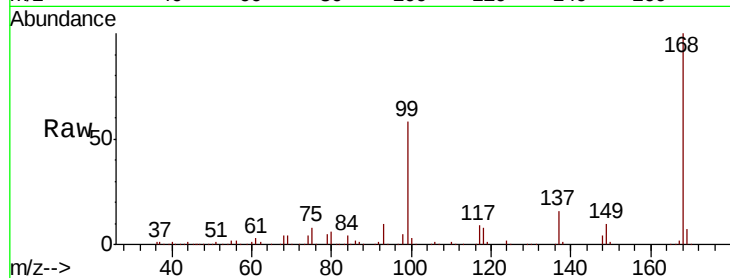
QNWP8-EQUIP.BLANK

Tot Ion:168 Resp: 214803

Ion Ratio Lower Upper

168 100

99 57.8 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

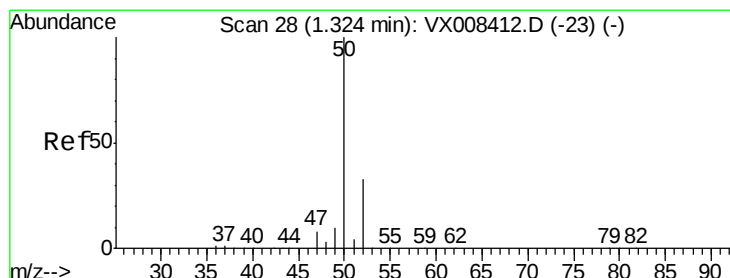
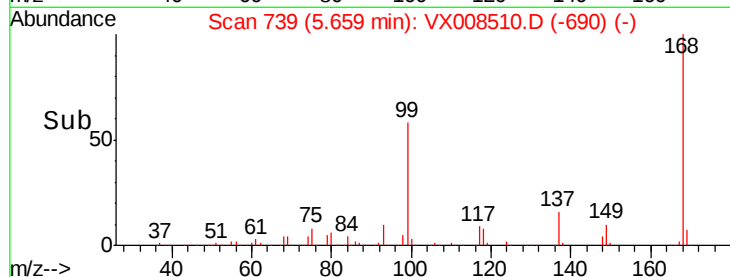
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008510.D

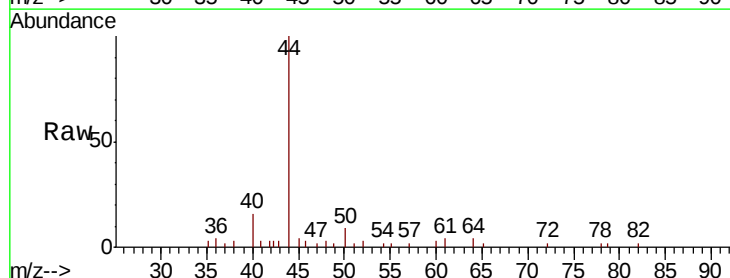
Acq: 28 Mar 2019 11:35

Tgt Ion: 50 Resp: 582

Ion Ratio Lower Upper

50 100

52 15.6 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

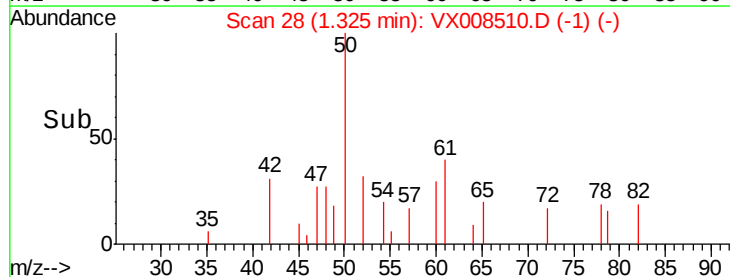
300

200

100

0

Time--> 1.30 1.35 1.40





#5

Bromomethane

Concen: 1.865 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008510.D

Acq: 28 Mar 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

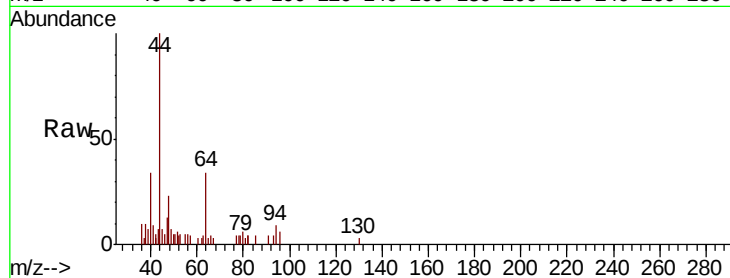
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Tot Ion: 94 Resp: 110

Ion Ratio Lower Upper

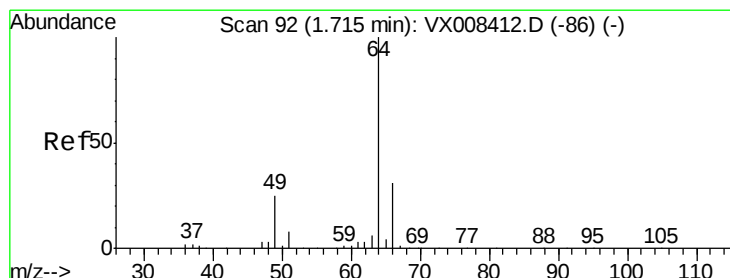
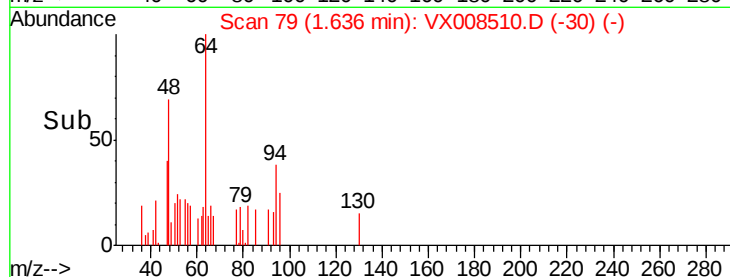
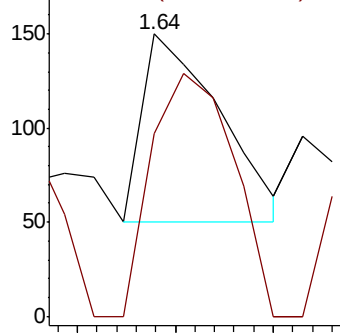
94 100

96 97.0 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 1.217 ug/l

RT: 1.67 min Scan# 84

Delta R.T. -0.05 min

Lab File: VX008510.D

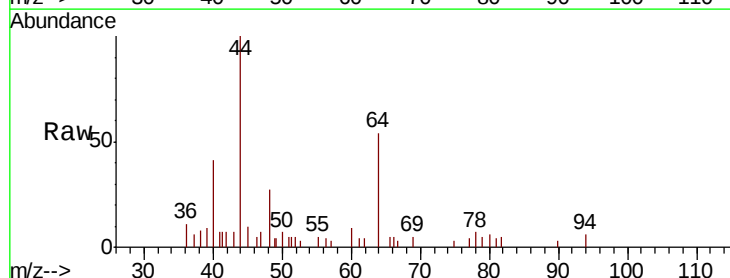
Acq: 28 Mar 2019 11:35

Tgt Ion: 64 Resp: 2549

Ion Ratio Lower Upper

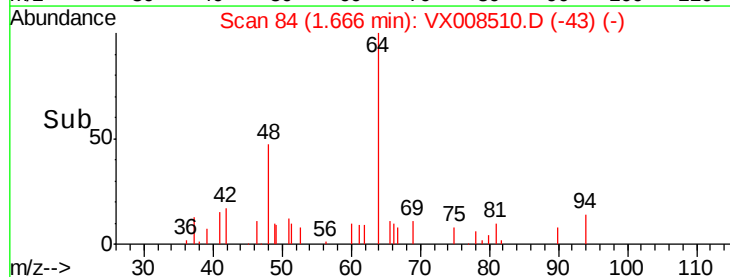
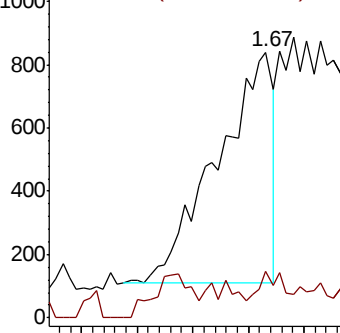
64 100

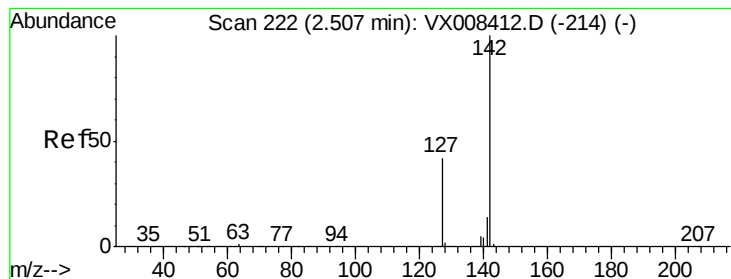
66 20.1 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methvl Iodide

Concen: 4.149 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX008510.D

Acq: 28 Mar 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP.BLANK

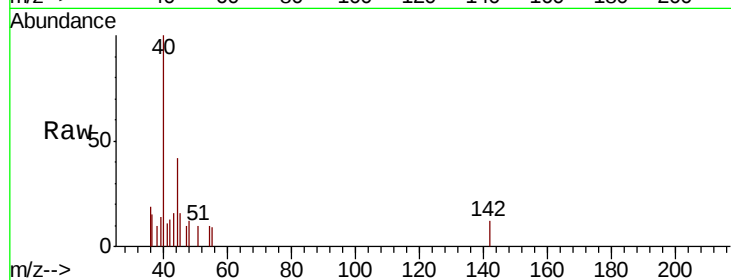
Tot Ion:142 Resp: 51

Ion Ratio Lower Upper

142 100

127 0.0 33.6 50.4#

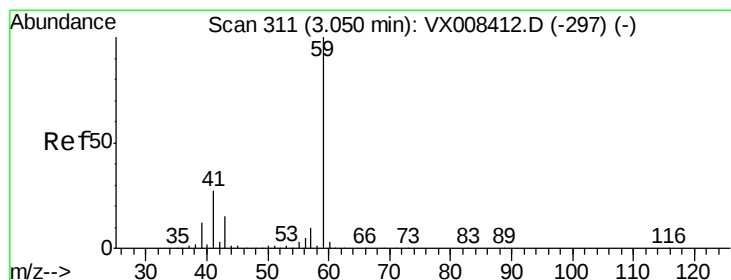
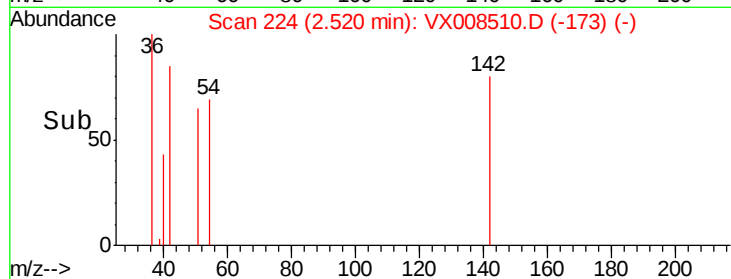
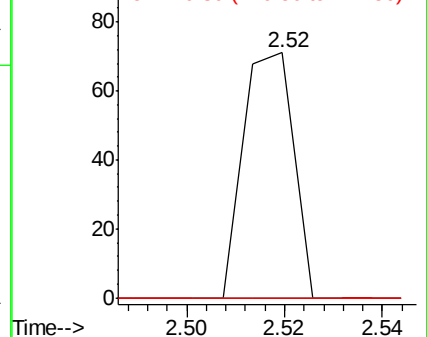
141 0.0 11.3 16.9#



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: 5.587 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.04 min

Lab File: VX008510.D

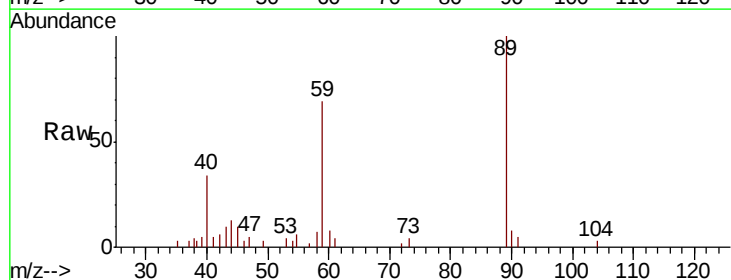
Acq: 28 Mar 2019 11:35

Tgt Ion: 59 Resp: 4031

Ion Ratio Lower Upper

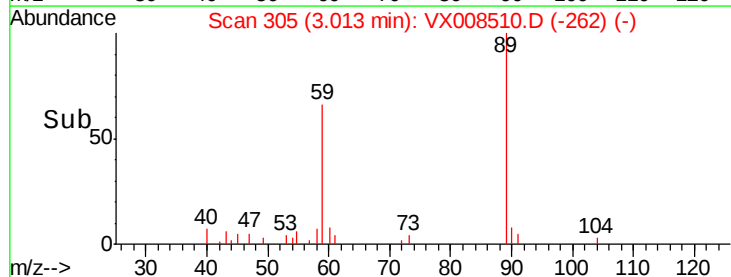
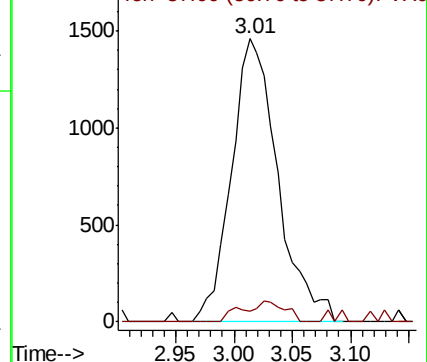
59 100

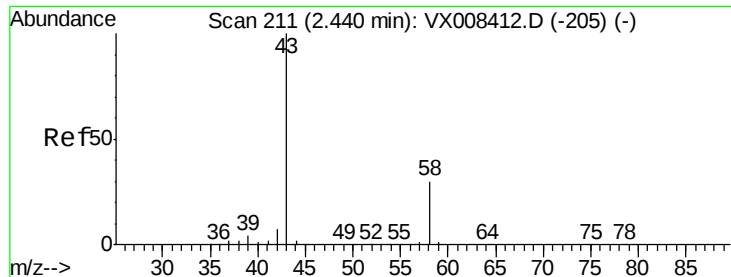
57 2.3 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 6.508 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX008510.D

Acq: 28 Mar 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

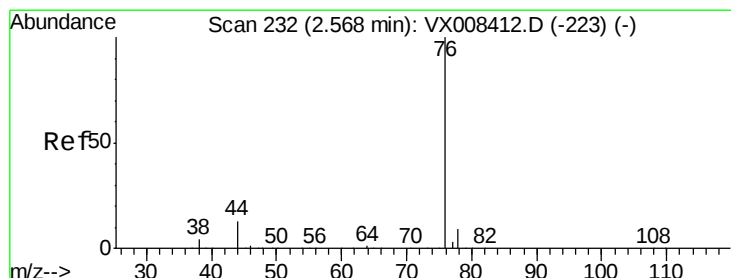
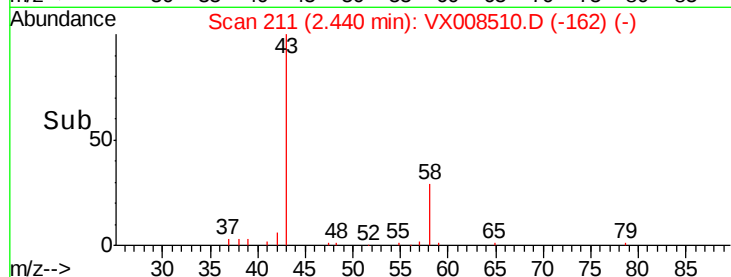
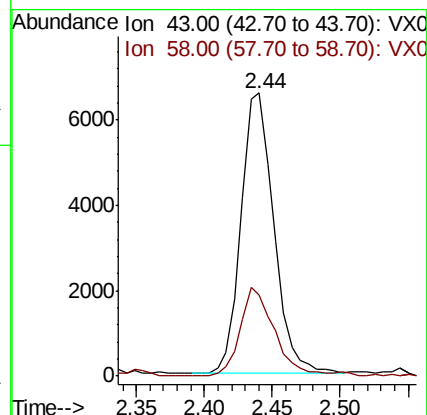
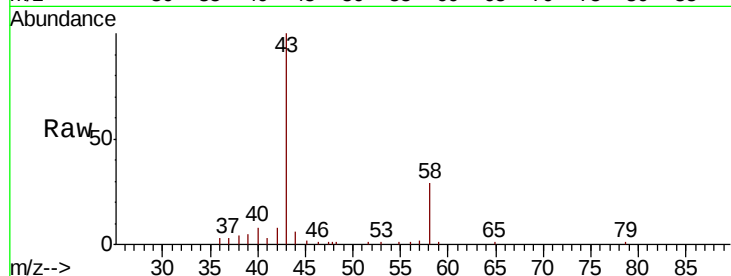
QNWP8-EQUIP.BLANK

Tot Ion: 43 Resp: 11076

Ion Ratio Lower Upper

43 100

58 29.1 24.2 36.2



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008510.D

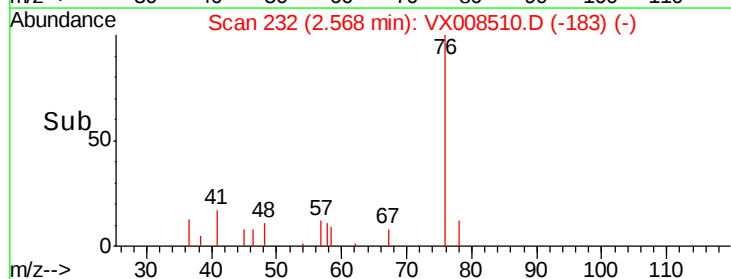
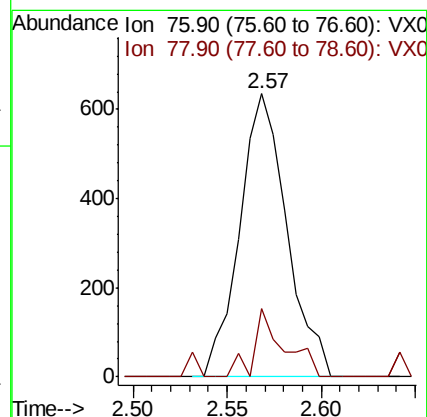
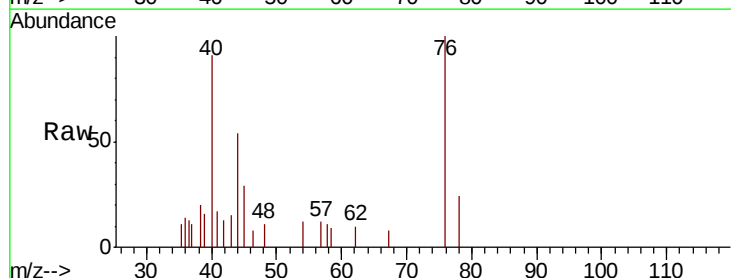
Acq: 28 Mar 2019 11:35

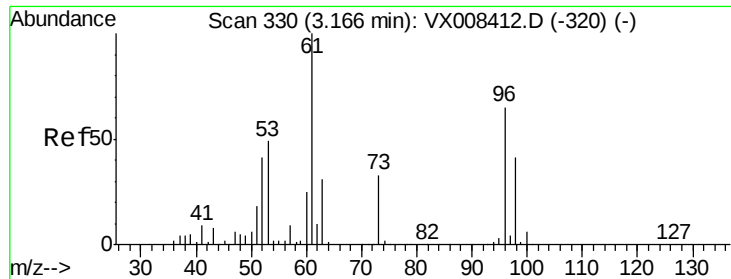
Tgt Ion: 76 Resp: 1101

Ion Ratio Lower Upper

76 100

78 24.3 7.4 11.2#





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 3.18 min Scan# 333

Delta R.T. 0.02 min

Lab File: VX008510.D

Acq: 28 Mar 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP.BLANK

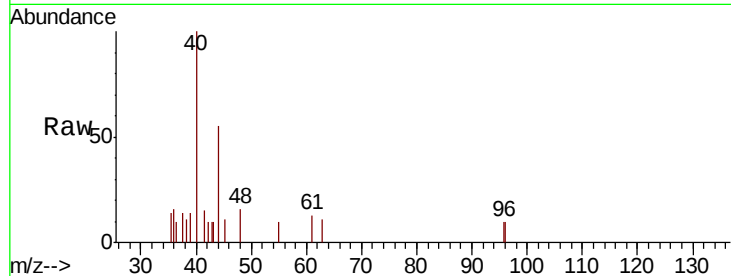
Tot Ion: 96 Resp: 168

Ion Ratio Lower Upper

96 100

61 62.6 122.6 184.0#

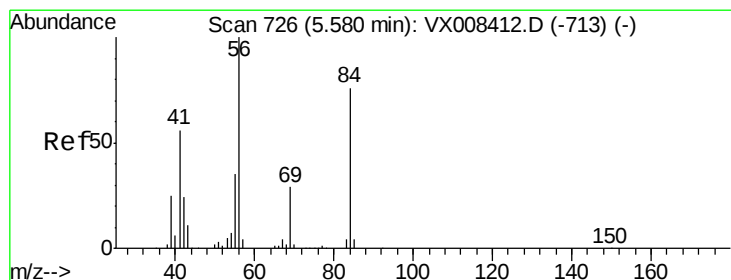
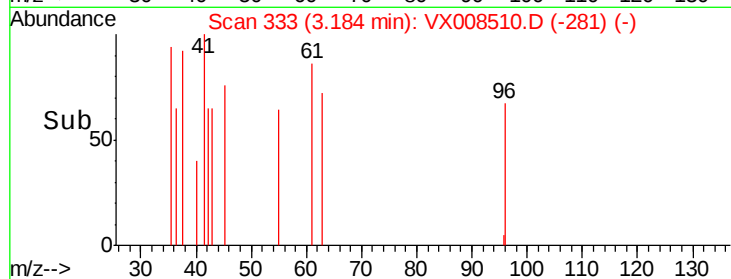
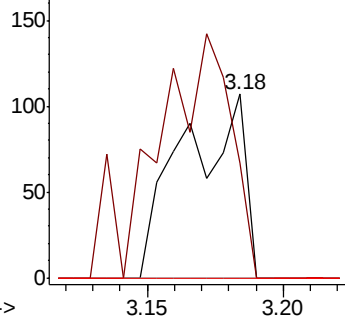
98 0.0 50.9 76.3#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#31

Cyclohexane

Concen: 0.976 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008510.D

Acq: 28 Mar 2019 11:35

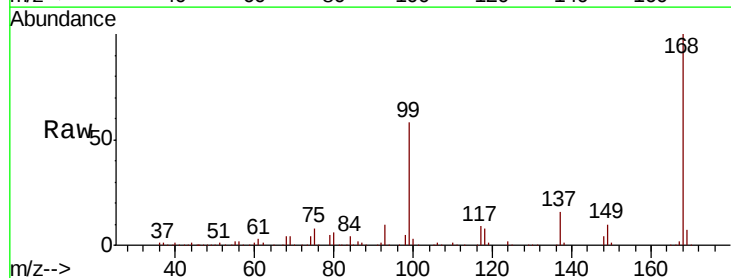
Tgt Ion: 56 Resp: 5092

Ion Ratio Lower Upper

56 100

69 155.6 23.2 34.8#

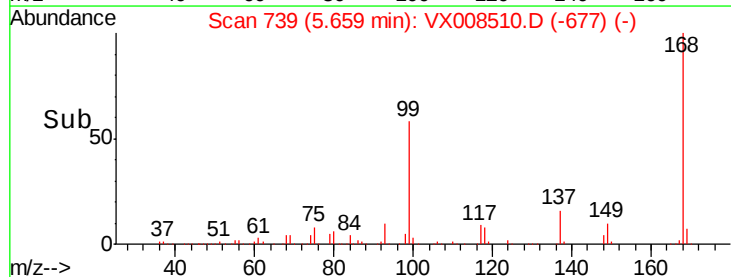
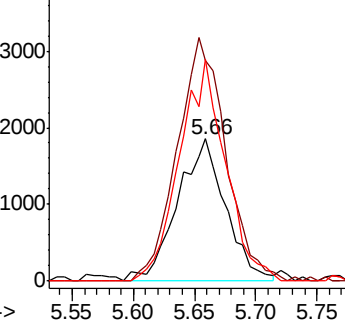
84 160.5 60.7 91.1#

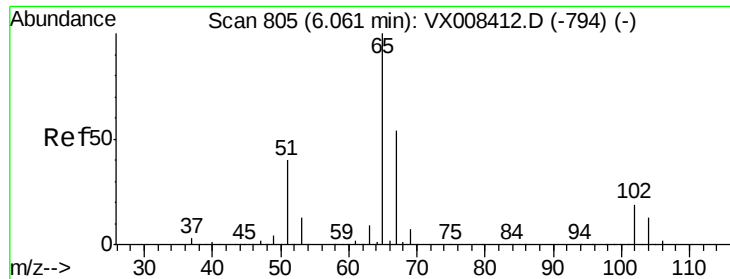


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 46.072 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.01 min

Lab File: VX008510.D

Acq: 28 Mar 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

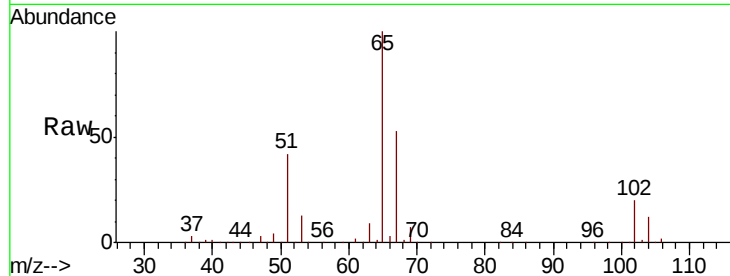
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Tot Ion: 65 Resp: 150032

Ion Ratio Lower Upper

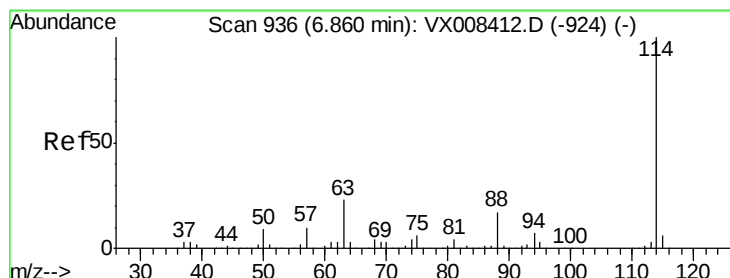
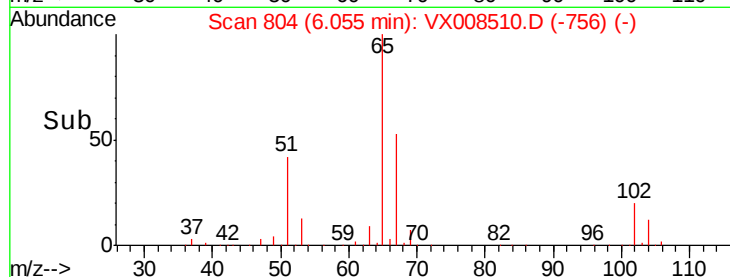
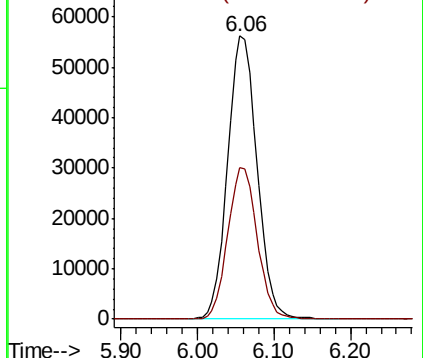
65 100

67 53.6 0.0 109.4



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: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX008510.D

Acq: 28 Mar 2019 11:35

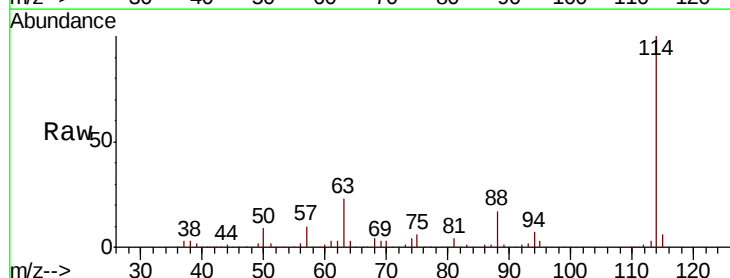
Tgt Ion: 114 Resp: 360336

Ion Ratio Lower Upper

114 100

63 23.3 0.0 46.4

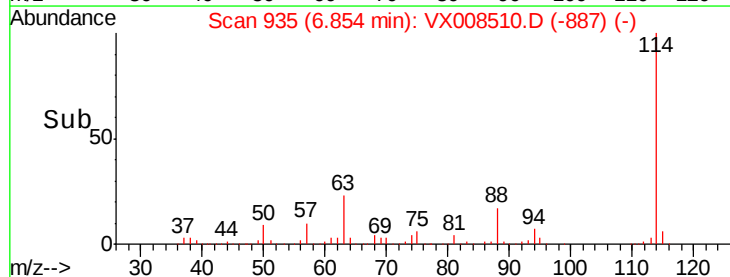
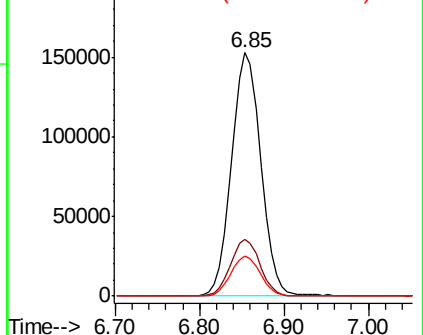
88 16.5 0.0 33.2

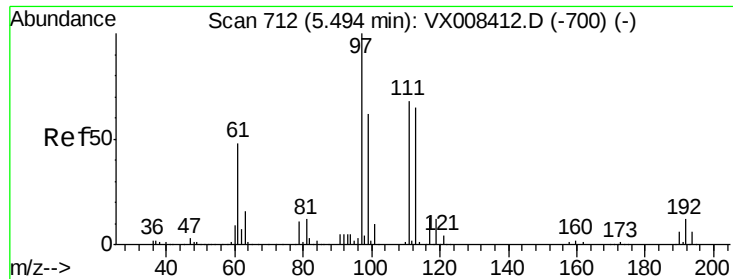


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.134 ug/l

RT: 5.49 min Scan# 712

Delta R.T. 0.00 min

Lab File: VX008510.D

Acq: 28 Mar 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP.BLANK

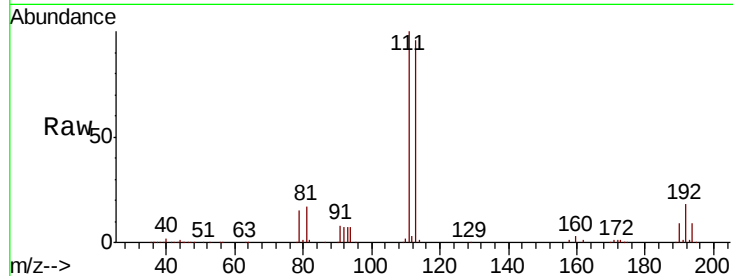
Tot Ion:113 Resp: 110745

Ion Ratio Lower Upper

113 100

111 103.4 83.0 124.4

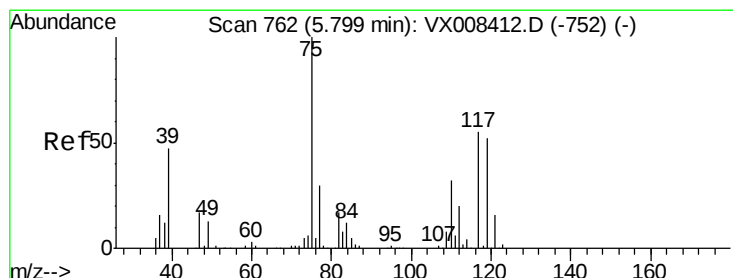
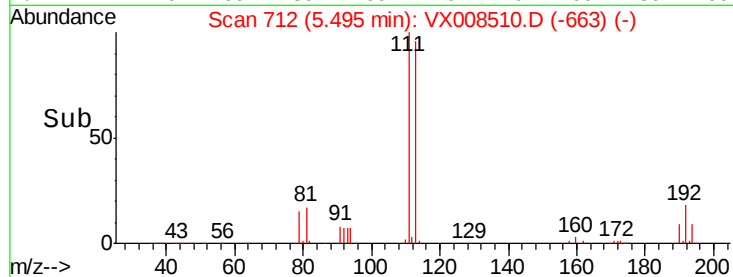
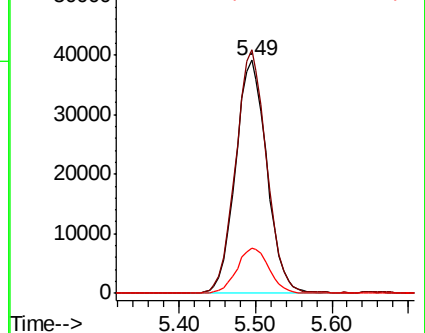
192 19.7 15.6 23.4



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: 4.755 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008510.D

Acq: 28 Mar 2019 11:35

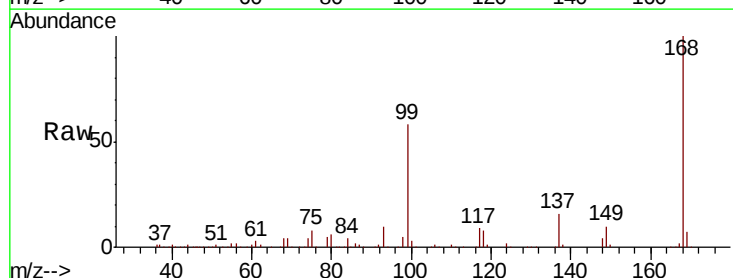
Tgt Ion: 75 Resp: 18268

Ion Ratio Lower Upper

75 100

110 8.5 16.6 49.7#

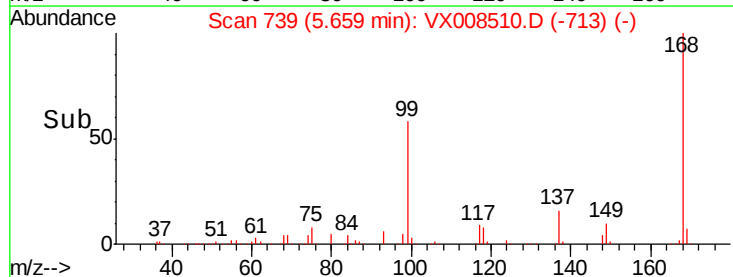
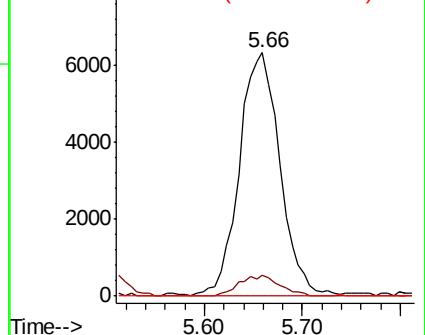
77 0.0 24.2 36.2#

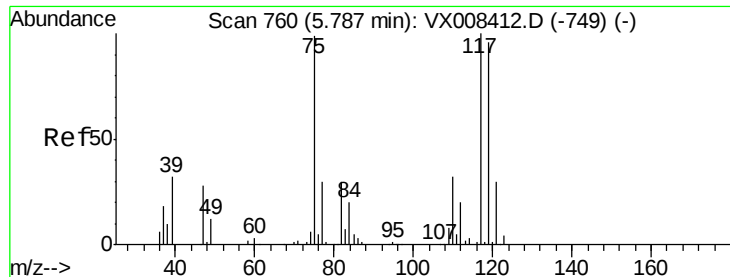


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.670 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX008510.D

Acq: 28 Mar 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP.BLANK

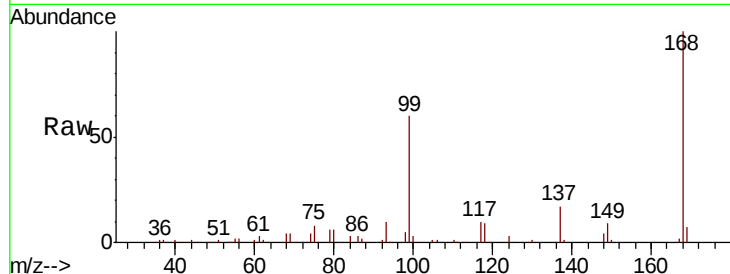
Tot Ion:117 Resp: 21386

Ion Ratio Lower Upper

117 100

119 4.6 76.7 115.1#

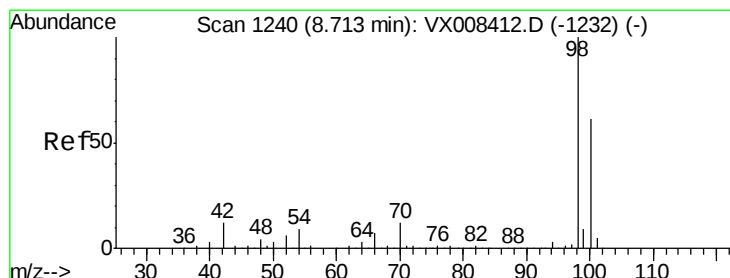
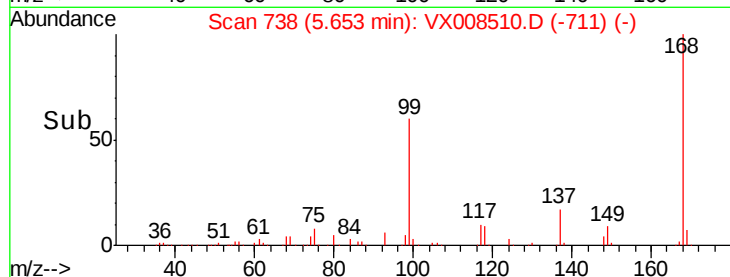
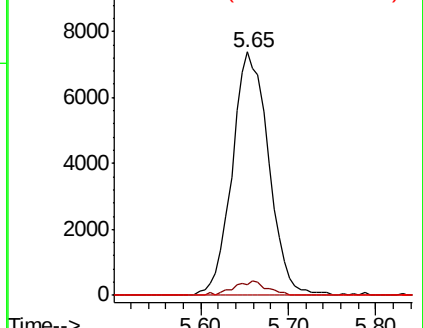
121 0.0 24.3 36.5#



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



#50

Toluene-d8

Concen: 47.840 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008510.D

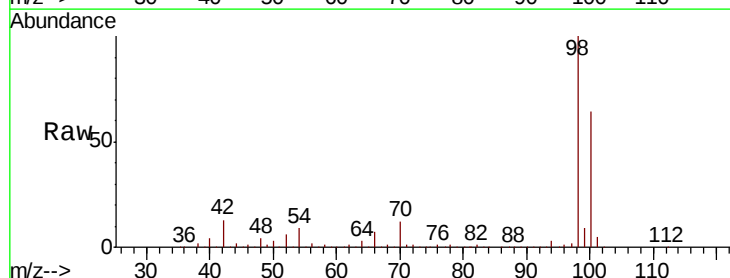
Acq: 28 Mar 2019 11:35

Tgt Ion: 98 Resp: 449454

Ion Ratio Lower Upper

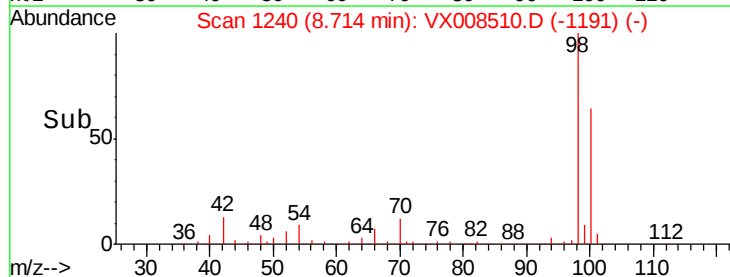
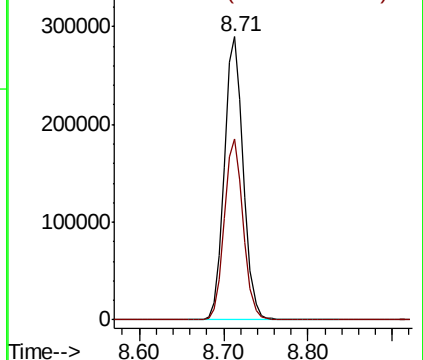
98 100

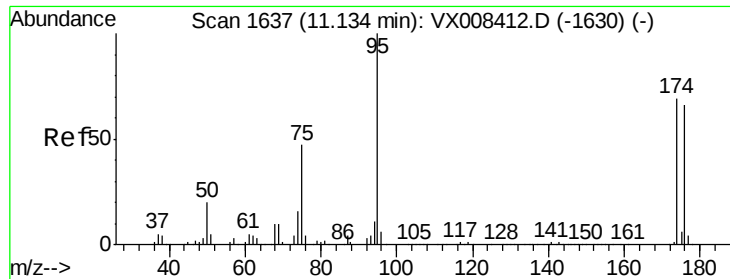
100 63.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 43.568 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008510.D

Acq: 28 Mar 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP.BLANK

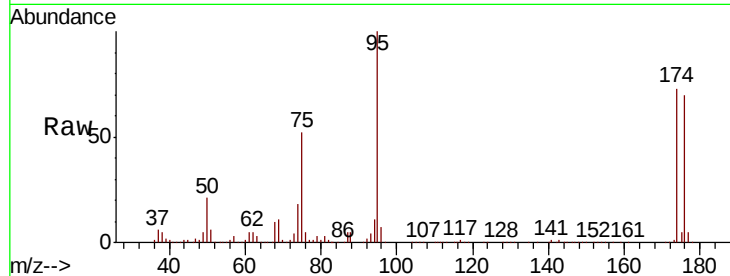
Tot Ion: 95 Resp: 151676

Ion Ratio Lower Upper

95 100

174 75.7 0.0 147.2

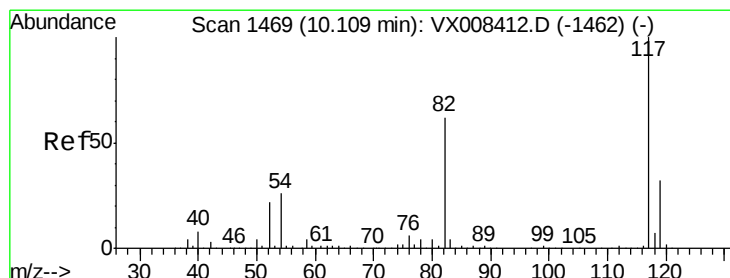
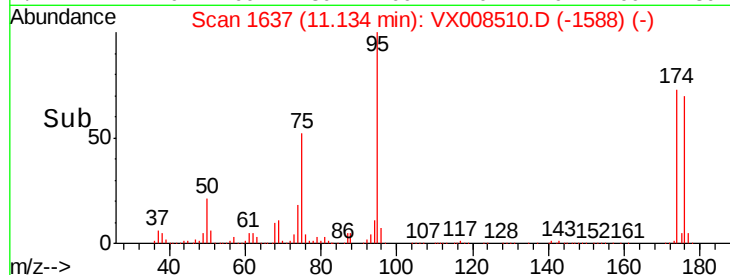
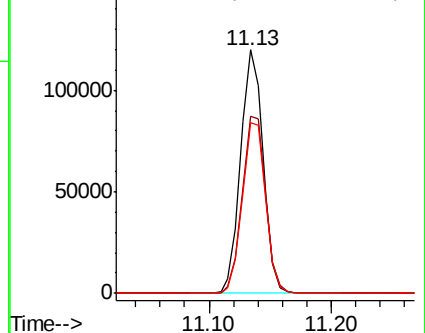
176 72.8 0.0 142.4



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: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX008510.D

Acq: 28 Mar 2019 11:35

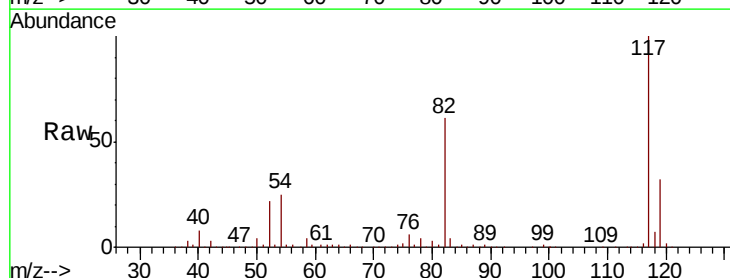
Tgt Ion: 117 Resp: 310636

Ion Ratio Lower Upper

117 100

82 60.5 49.4 74.2

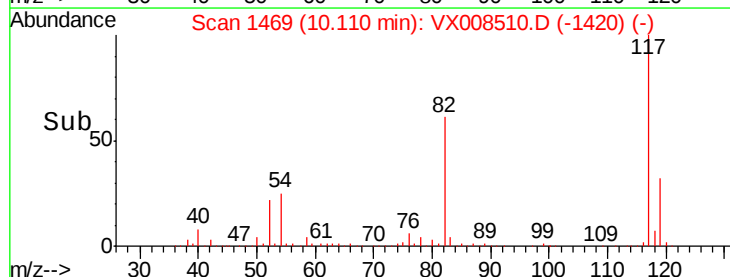
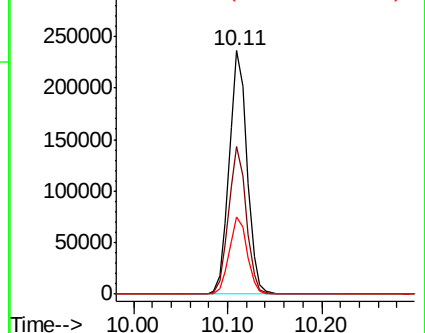
119 31.6 25.4 38.0

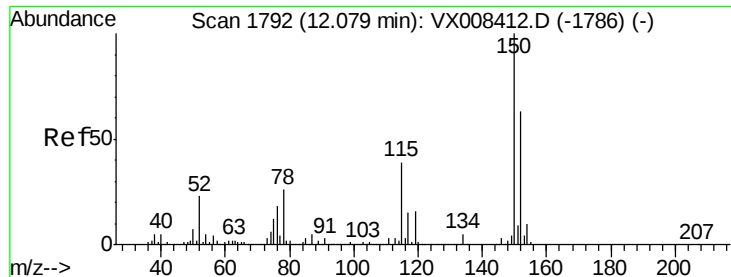


Abundance Ion 116.90 (116.60 to 117.60): V

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: VX008510.D

Acq: 28 Mar 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP.BLANK

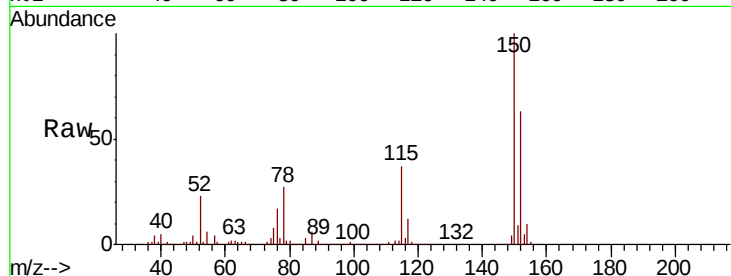
Tot Ion:152 Resp: 129697

Ion Ratio Lower Upper

152 100

115 60.7 43.5 130.5

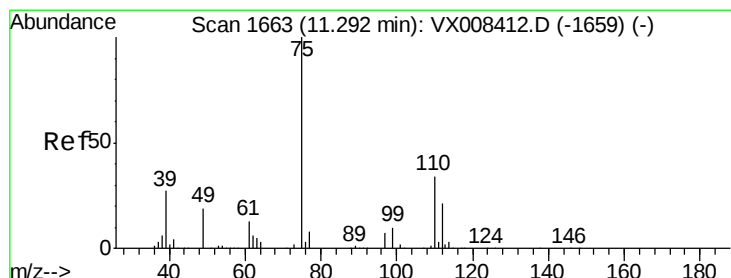
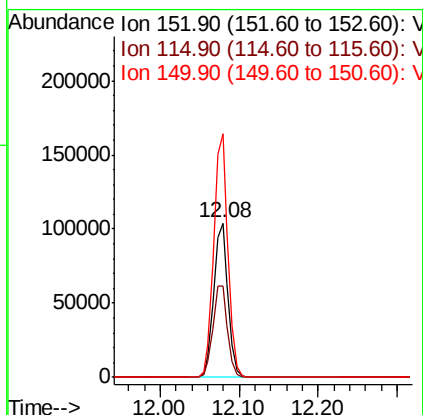
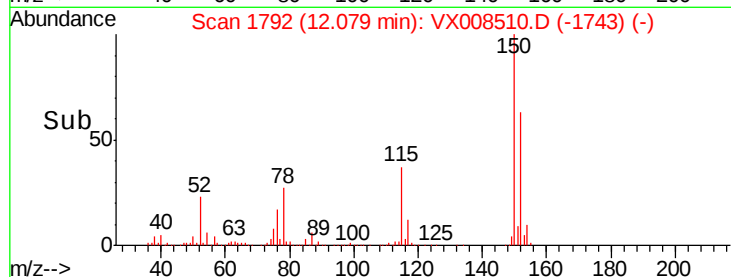
150 158.1 0.0 348.8



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: 20.226 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008510.D

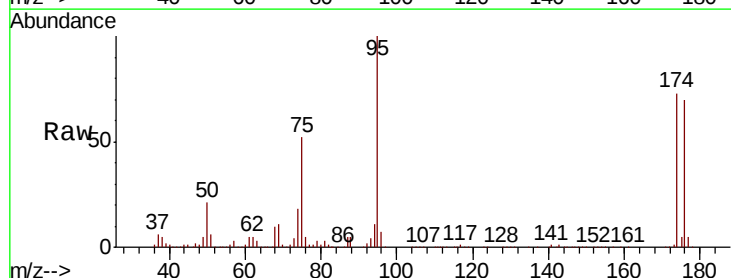
Acq: 28 Mar 2019 11:35

Tgt Ion: 75 Resp: 77986

Ion Ratio Lower Upper

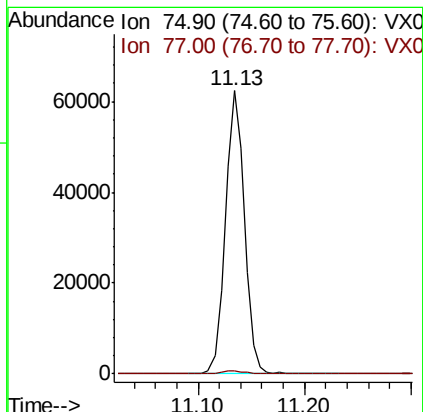
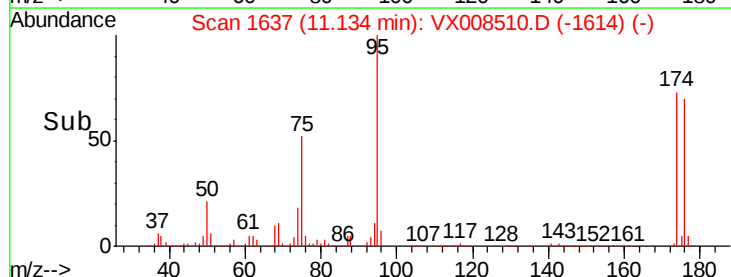
75 100

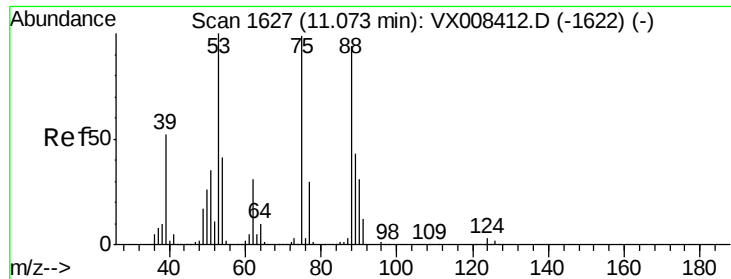
77 1.3 21.9 65.7#



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: 64.780 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008510.D

Acq: 28 Mar 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

QNWP8-EQUIP.BLANK

Tot Ion: 75 Resp: 77986

Ion Ratio Lower Upper

75 100

53 0.1 82.1 123.1#

89 0.0 34.6 52.0#

