

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041219\
 Data File : VX008909.D
 Acq On : 13 Apr 2019 00:52
 Operator : JC/SP
 Sample : K2311-15
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 0238-COMP-CS-3-ELTRT-DISS

Quant Time: Apr 13 05:05:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	184326	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	300522	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	251728	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	101606	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	124892	46.45	ug/l	0.00
Spiked Amount			Recovery	=	92.90%	
35) Dibromofluoromethane	5.50	113	90596	47.15	ug/l	0.00
Spiked Amount			Recovery	=	94.30%	
50) Toluene-d8	8.71	98	370804	48.47	ug/l	0.00
Spiked Amount			Recovery	=	96.94%	
62) 4-Bromofluorobenzene	11.13	95	117524	43.32	ug/l	0.00
Spiked Amount			Recovery	=	86.64%	

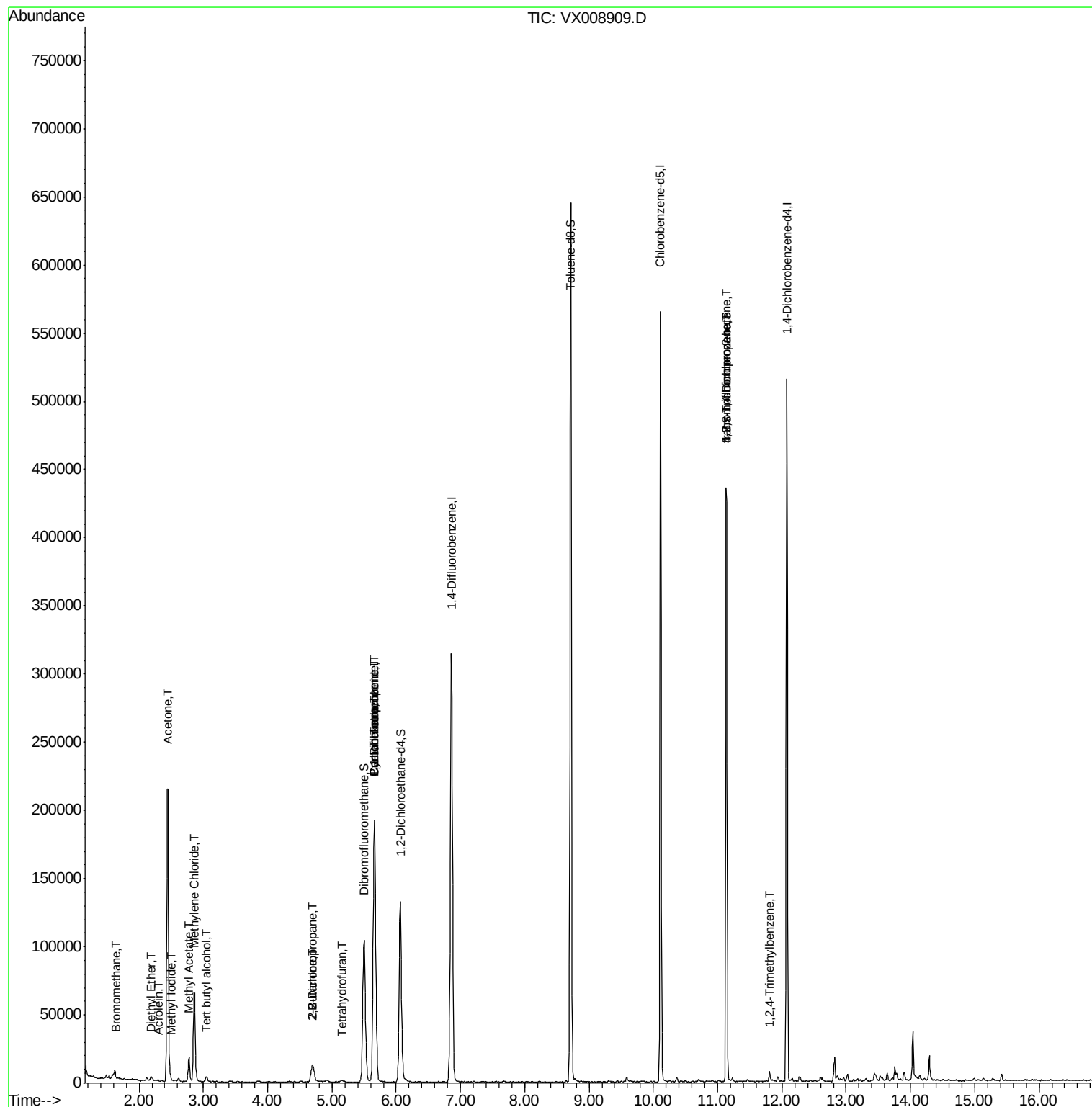
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	397	Below Cal	#	83
5) Bromomethane	1.65	94	341	2.118	ug/l	85
6) Chloroethane	1.74	64	101	Below Cal	#	43
8) Diethyl Ether	2.19	74	810	0.539	ug/l	57
10) Methyl Iodide	2.51	142	22	4.014	ug/l #	42
11) Tert butyl alcohol	3.04	59	3941	6.261	ug/l #	91
13) Acrolein	2.30	56	300	0.961	ug/l #	71
16) Acetone	2.44	43	240481	155.300	ug/l	97
17) Carbon Disulfide	2.57	76	1016	Below Cal	#	89
18) Methyl Acetate	2.78	43	21468	5.716	ug/l	98
20) Methylene Chloride	2.85	84	30624	11.815	ug/l	94
25) 2-Butanone	4.69	43	703	0.287	ug/l #	89
26) 2,2-Dichloropropane	4.70	77	1238	0.378	ug/l #	53
28) Bromochloromethane	5.05	49	22	Below Cal	#	22
29) Tetrahydrofuran	5.16	42	1175	0.723	ug/l	92
31) Cyclohexane	5.67	56	4403	0.948	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15497	4.717	ug/l #	50
38) Carbon Tetrachloride	5.66	117	17858	6.568	ug/l #	17
76) 1,2,3-Trichloropropane	11.13	75	60541	21.690	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	60541	59.789	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	2284	0.319	ug/l #	40

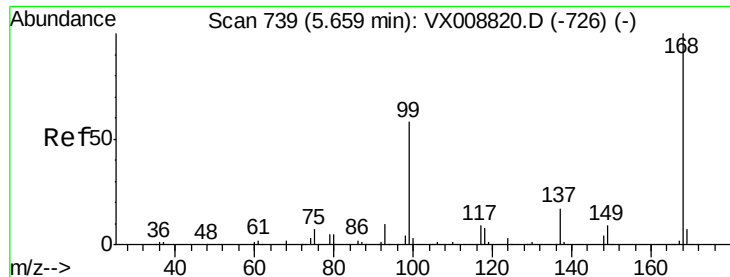
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX041219\
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0238-COMP-CS-3-ELTRT-DISS

Quant Time: Apr 13 05:05:14 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
Quant Title : SW846 8260
QLast Update : Thu Apr 04 04:47:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008909.D

Acq: 13 Apr 2019 00:52

Instrument :

MSVOA_X

ClientSampleId :

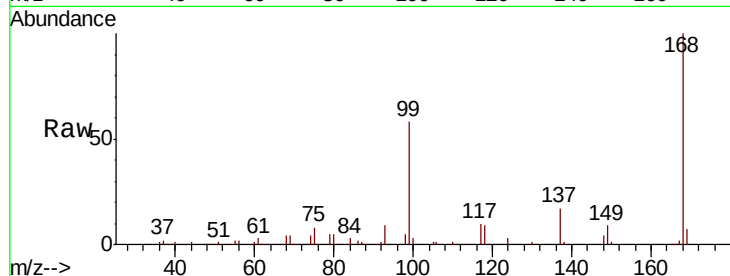
0238-COMP-CS-3-ELTRT-DISS

Tot Ion:168 Resp: 184326

Ion Ratio Lower Upper

168 100

99 57.8 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

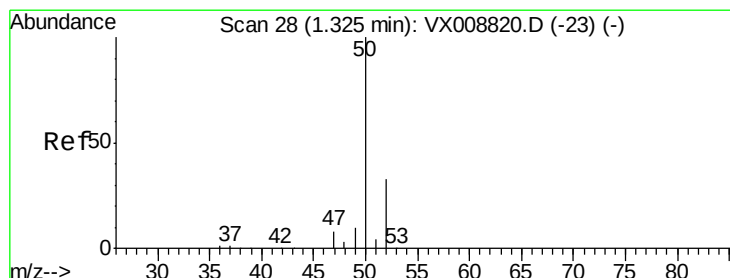
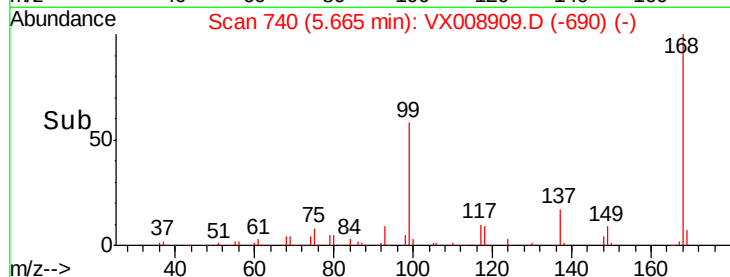
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX008909.D

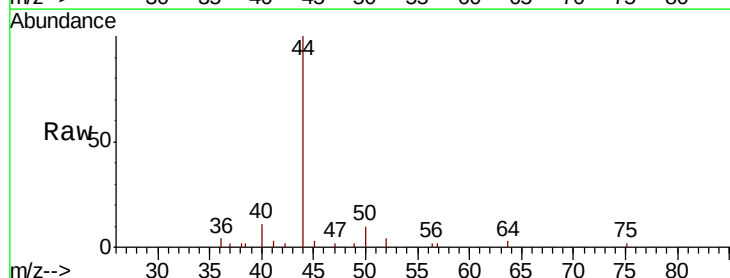
Acq: 13 Apr 2019 00:52

Tgt Ion: 50 Resp: 397

Ion Ratio Lower Upper

50 100

52 22.7 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

300

250

200

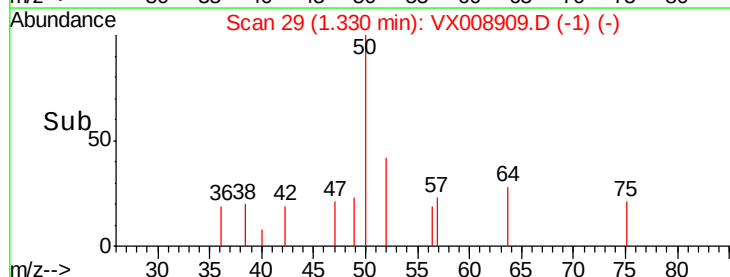
150

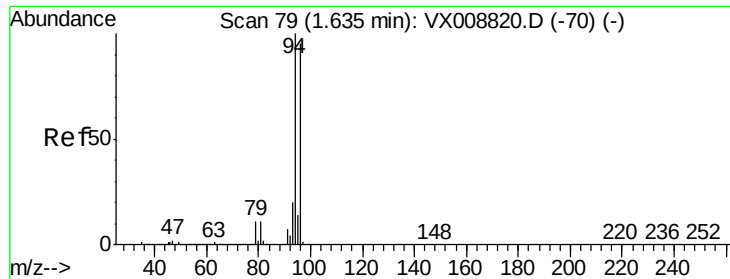
100

50

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 2.118 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008909.D

Acq: 13 Apr 2019 00:52

Instrument :

MSVOA_X

ClientSampleId :

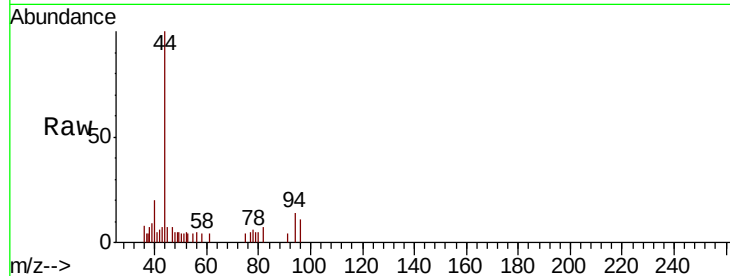
0238-COMP-CS-3-ELTRT-DISS

Tot Ion: 94 Resp: 341

Ion Ratio Lower Upper

94 100

96 79.7 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

200

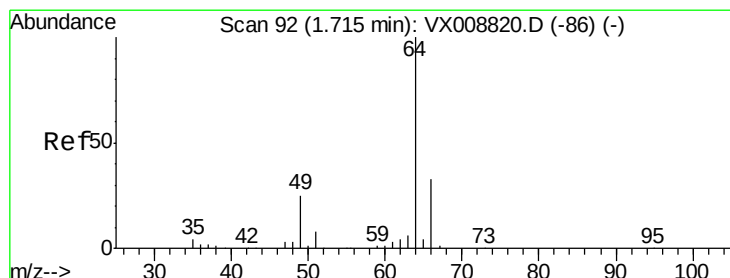
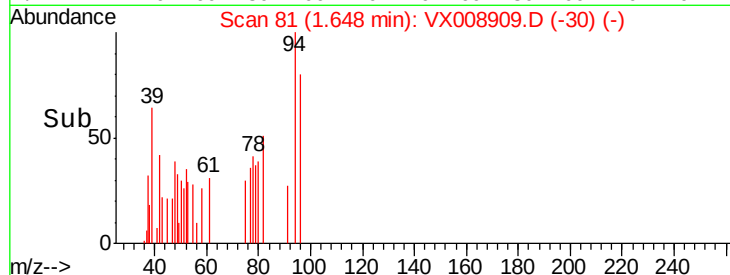
150

100

50

0

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.74 min Scan# 96

Delta R.T. 0.02 min

Lab File: VX008909.D

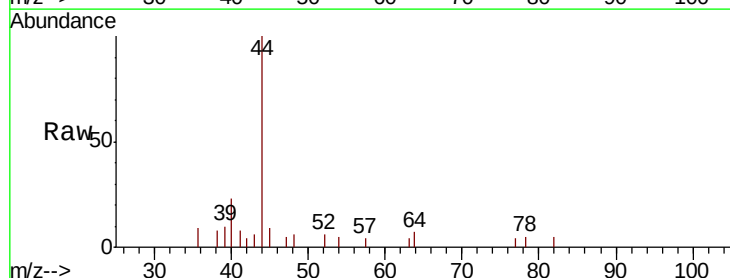
Acq: 13 Apr 2019 00:52

Tgt Ion: 64 Resp: 101

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.74

100

80

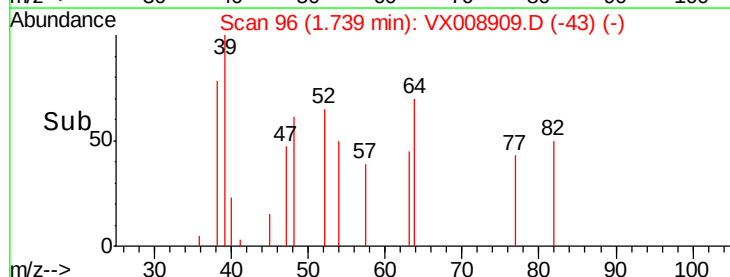
60

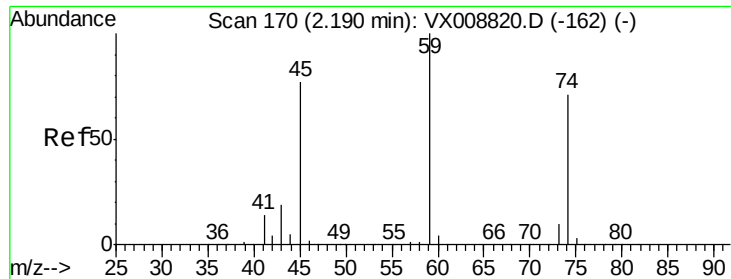
40

20

0

Time-->





#8

Diethyl Ether

Concen: 0.539 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX008909.D

Acq: 13 Apr 2019 00:52

Instrument :

MSVOA_X

ClientSampleId :

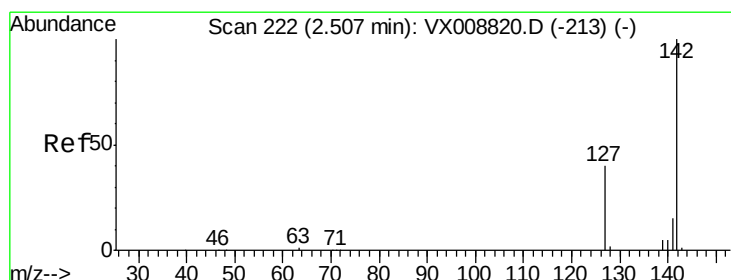
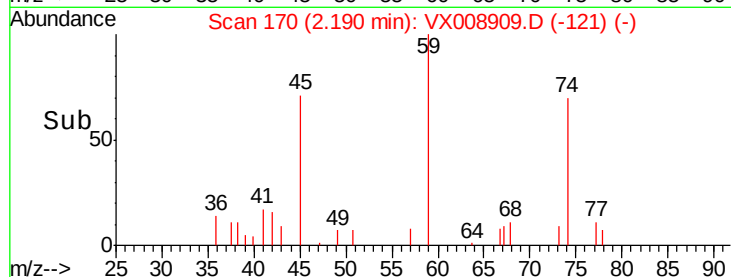
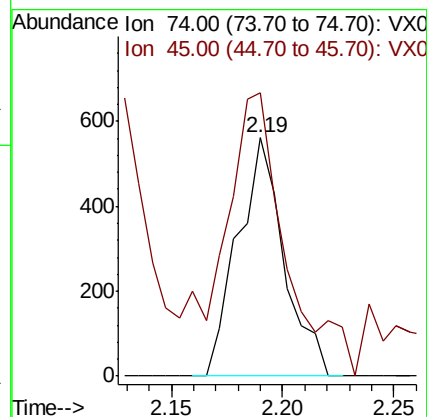
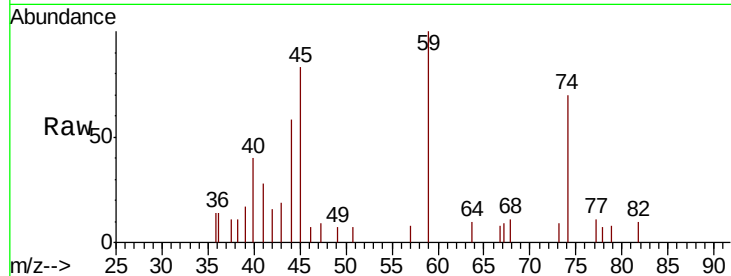
0238-COMP-CS-3-ELTRT-DISS

Tot Ion: 74 Resp: 810

Ion Ratio Lower Upper

74 100

45 159.5 56.5 169.5



#10

Methyl Iodide

Concen: 4.014 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX008909.D

Acq: 13 Apr 2019 00:52

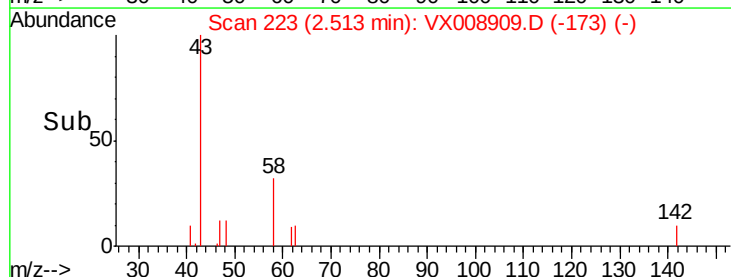
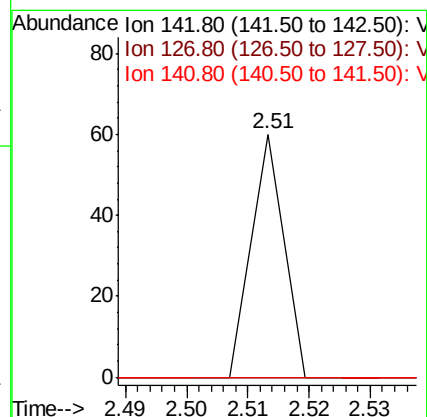
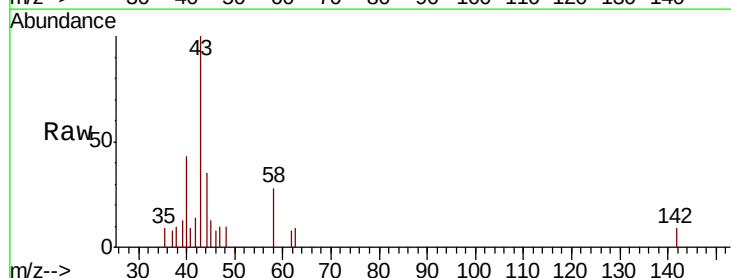
Tgt Ion: 142 Resp: 22

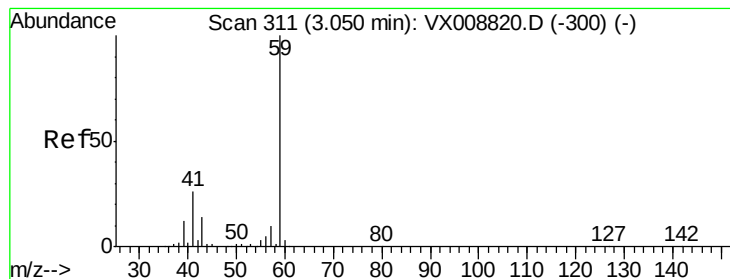
Ion Ratio Lower Upper

142 100

127 0.0 33.0 49.6#

141 0.0 11.4 17.2#





#11

Tert butyl alcohol

Concen: 6.261 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.01 min

Lab File: VX008909.D

Acq: 13 Apr 2019 00:52

Instrument :

MSVOA_X

ClientSampleId :

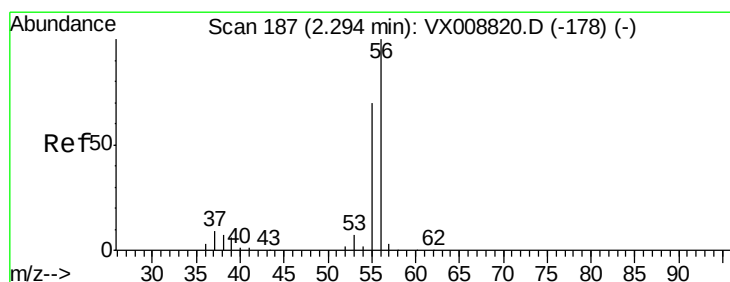
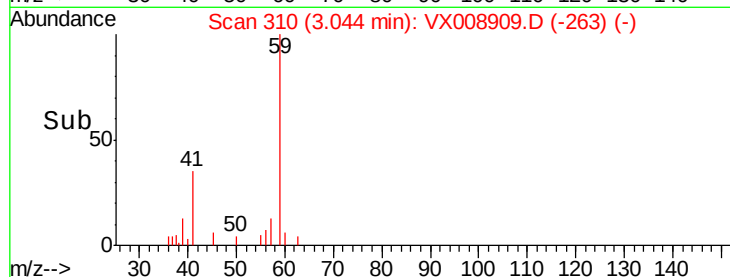
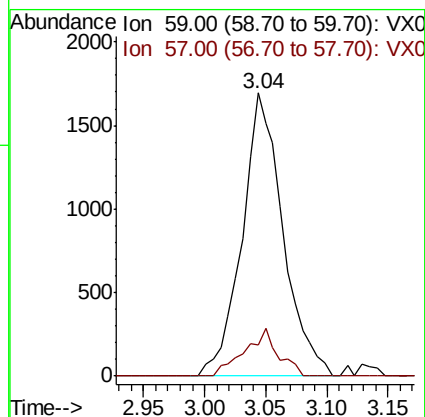
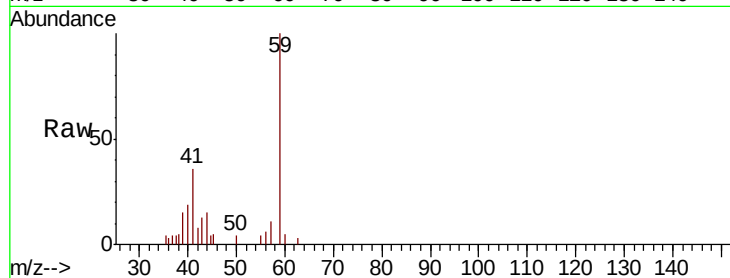
0238-COMP-CS-3-ELTRT-DISS

Tot Ion: 59 Resp: 3941

Ion Ratio Lower Upper

59 100

57 13.8 8.3 12.5#



#13

Acrolein

Concen: 0.961 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX008909.D

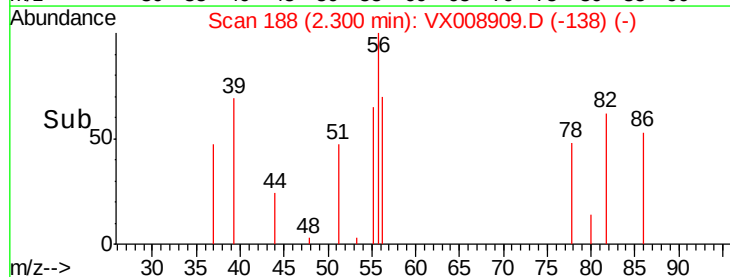
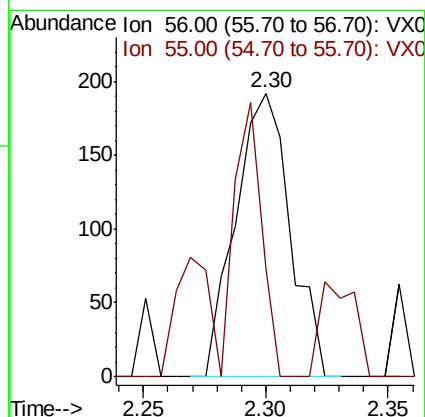
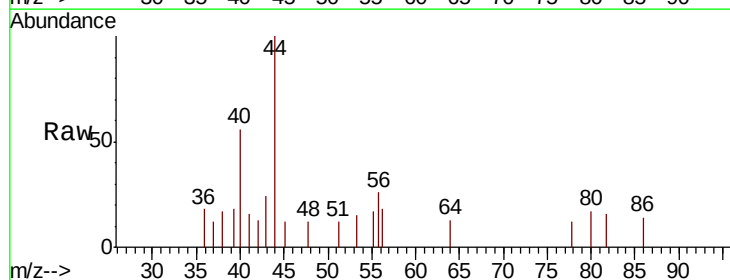
Acq: 13 Apr 2019 00:52

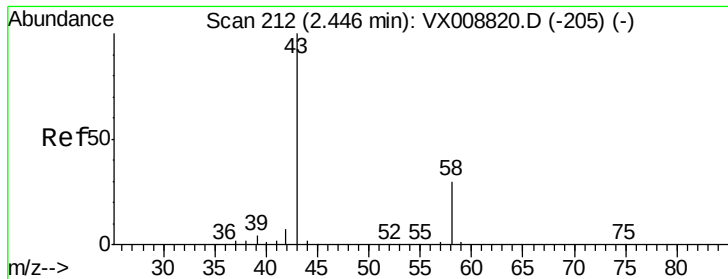
Tgt Ion: 56 Resp: 300

Ion Ratio Lower Upper

56 100

55 48.0 58.0 87.0#





#16

Acetone

Concen: 155.300 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008909.D

Acq: 13 Apr 2019 00:52

Instrument :

MSVOA_X

ClientSampleId :

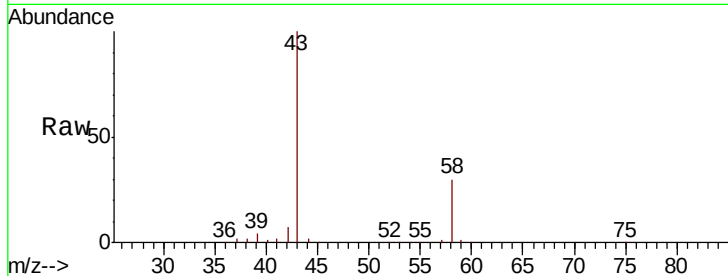
0238-COMP-CS-3-ELTRT-DISS

Tot Ion: 43 Resp: 240481

Ion Ratio Lower Upper

43 100

58 29.6 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

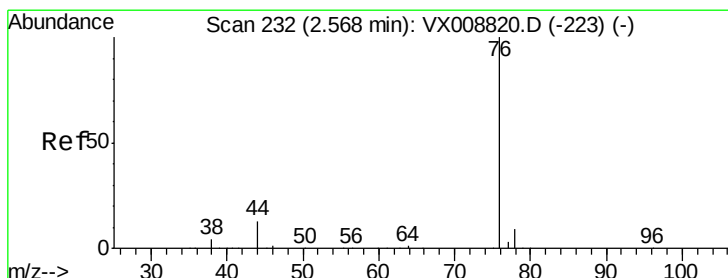
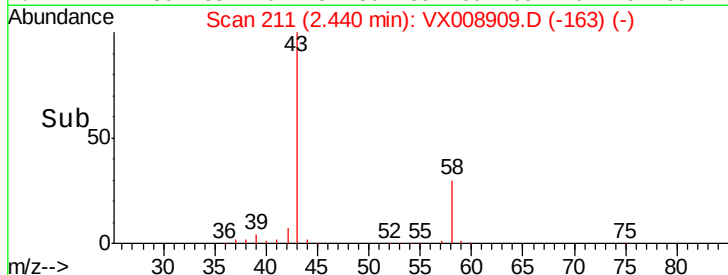
150000

100000

50000

0

Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008909.D

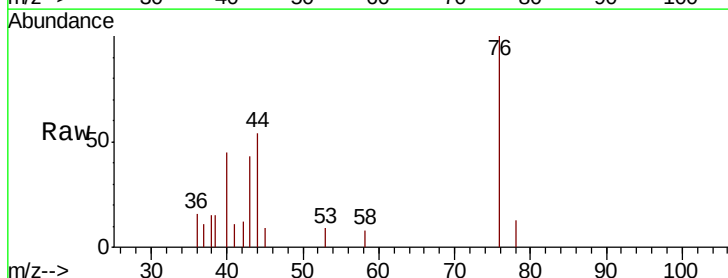
Acq: 13 Apr 2019 00:52

Tgt Ion: 76 Resp: 1016

Ion Ratio Lower Upper

76 100

78 12.9 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

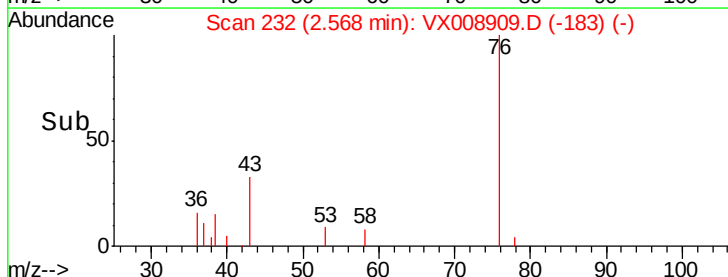
600

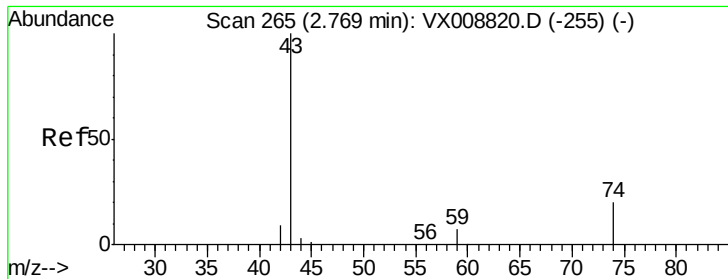
400

200

0

Time-->

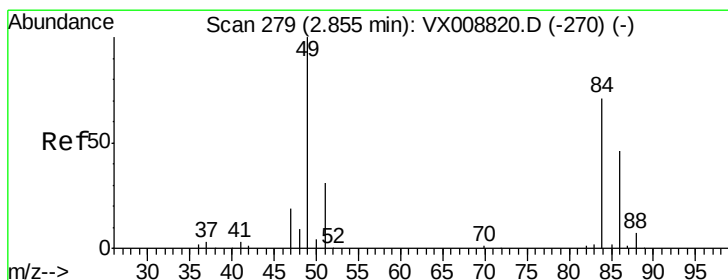
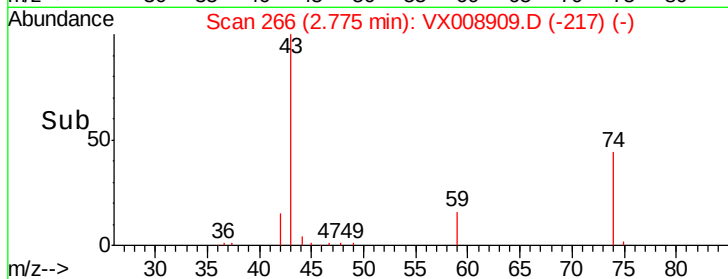
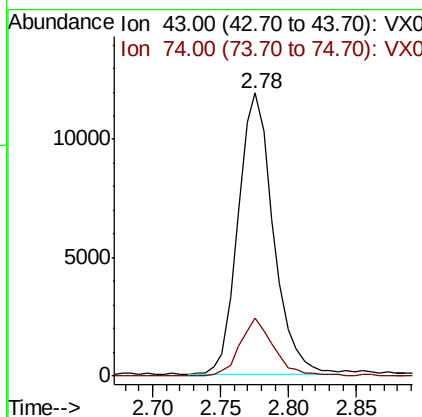
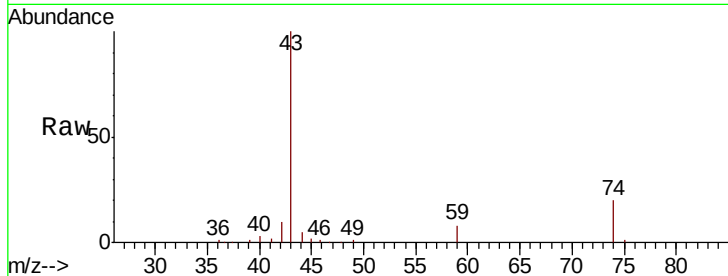




#18
Methvl Acetate
Concen: 5.716 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.00 min
Lab File: VX008909.D
Acq: 13 Apr 2019 00:52

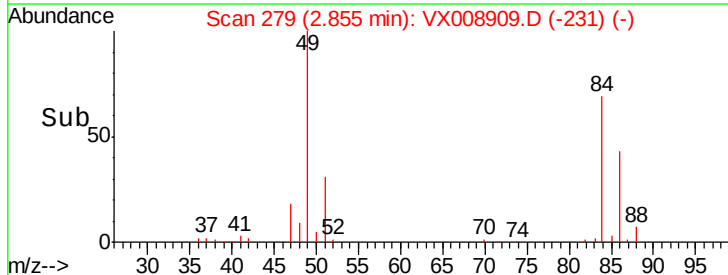
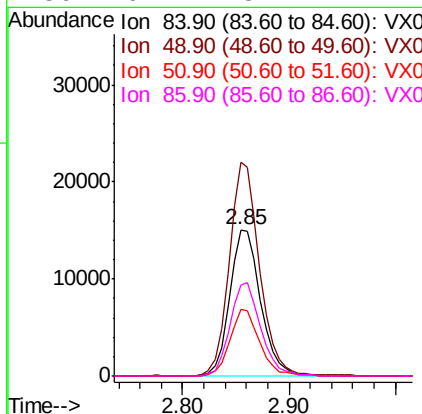
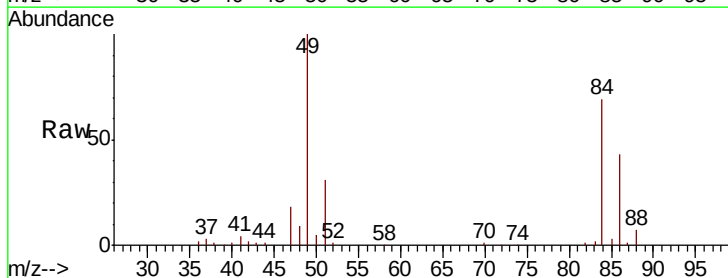
Instrument :
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0238-COMP-CS-3-ELTRT-DISS

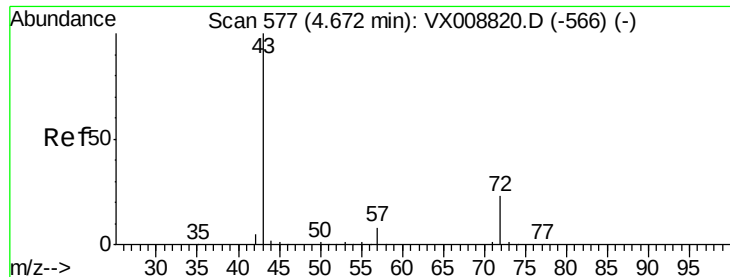
Tot Ion: 43 Resp: 21468
Ion Ratio Lower Upper
43 100
74 19.9 16.5 24.7



#20
Methylene Chloride
Concen: 11.815 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX008909.D
Acq: 13 Apr 2019 00:52

Tgt Ion: 84 Resp: 30624
Ion Ratio Lower Upper
84 100
49 146.0 109.7 164.5
51 45.2 33.6 50.4
86 62.2 51.4 77.2





#25

2-Butanone

Concen: 0.287 ug/l

RT: 4.69 min Scan# 580

Delta R.T. 0.01 min

Lab File: VX008909.D

Acq: 13 Apr 2019 00:52

Instrument :

MSVOA_X

ClientSampleId :

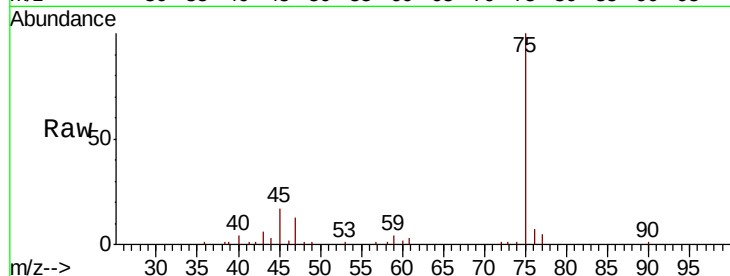
0238-COMP-CS-3-ELTRT-DISS

Tot Ion: 43 Resp: 703

Ion Ratio Lower Upper

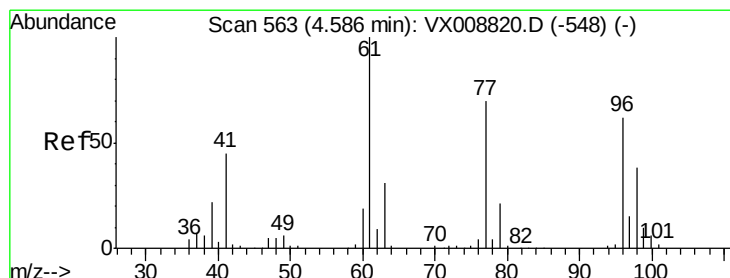
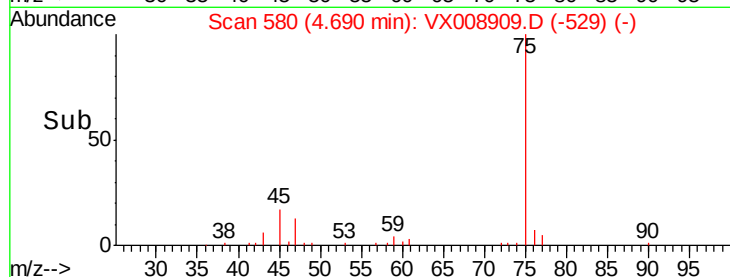
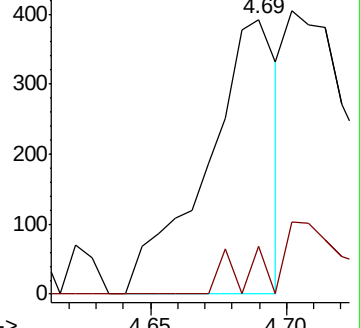
43 100

72 17.6 18.2 27.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 0.378 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.12 min

Lab File: VX008909.D

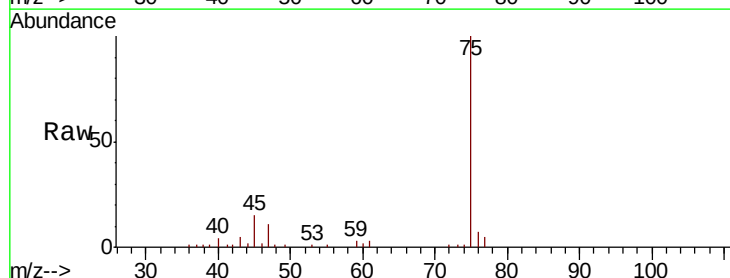
Acq: 13 Apr 2019 00:52

Tgt Ion: 77 Resp: 1238

Ion Ratio Lower Upper

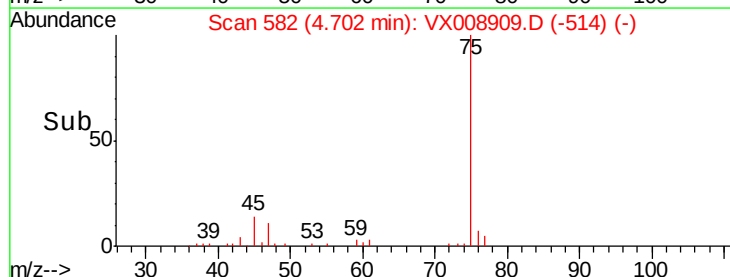
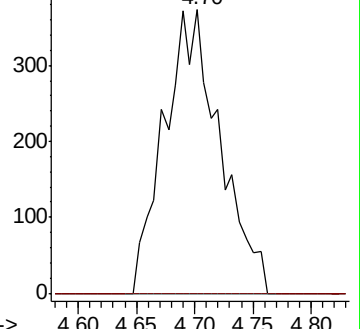
77 100

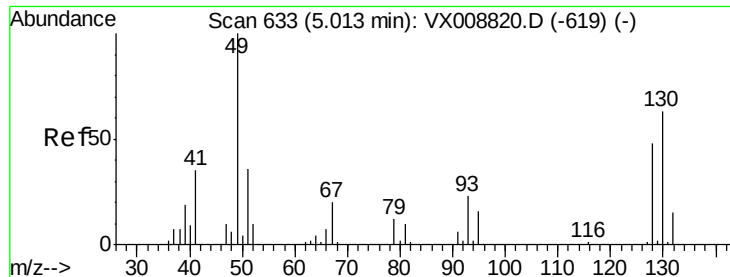
97 0.0 11.5 34.5#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.05 min Scan# 639

Delta R.T. 0.03 min

Lab File: VX008909.D

Acq: 13 Apr 2019 00:52

Instrument :

MSVOA_X

ClientSampleId :

0238-COMP-CS-3-ELTRT-DISS

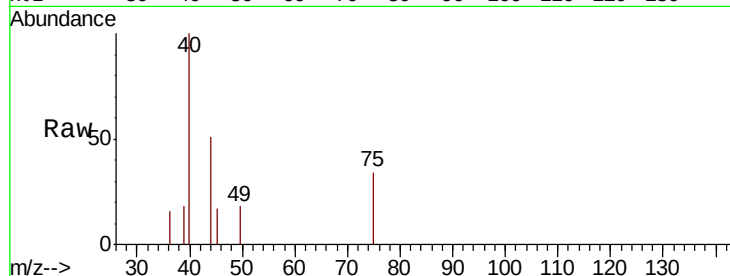
Tot Ion: 49 Resp: 22

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

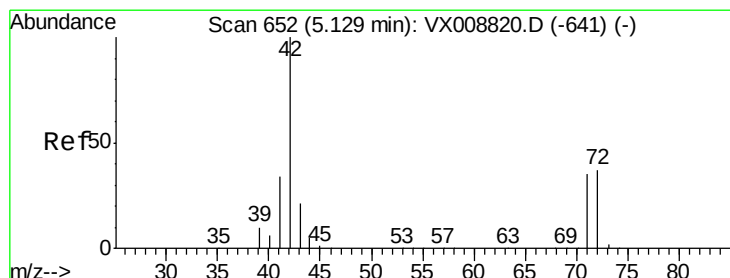
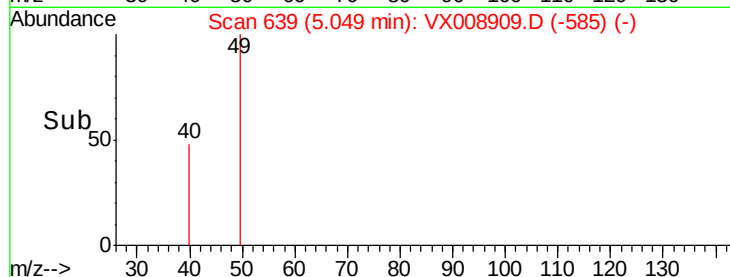
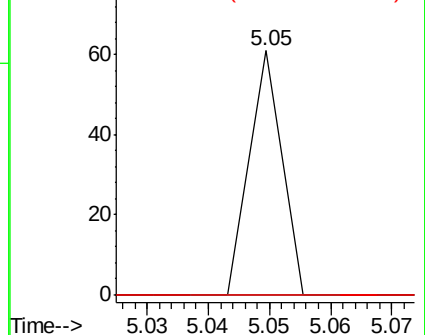
130 0.0 49.3 73.9#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.723 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.03 min

Lab File: VX008909.D

Acq: 13 Apr 2019 00:52

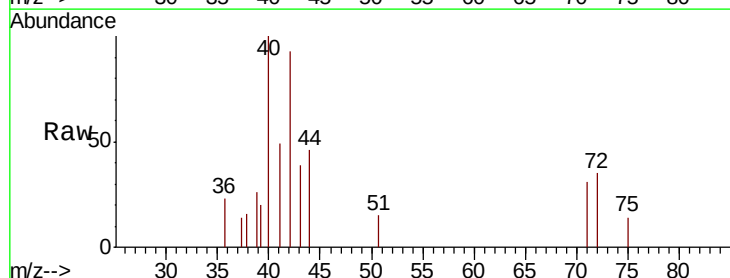
Tgt Ion: 42 Resp: 1175

Ion Ratio Lower Upper

42 100

72 44.7 30.5 45.7

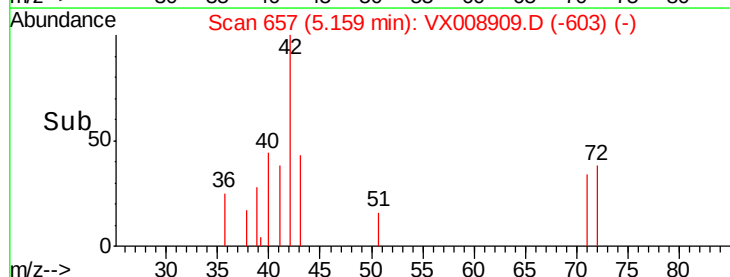
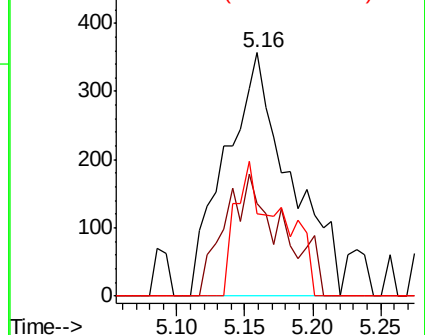
71 38.7 28.6 43.0

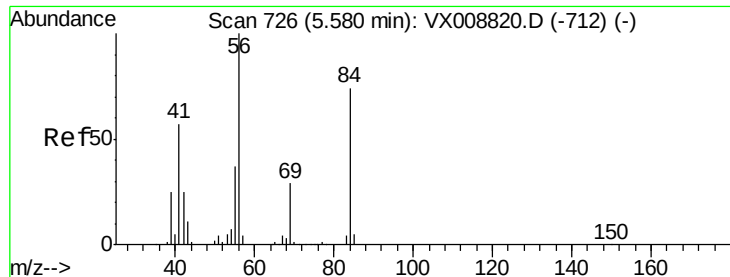


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

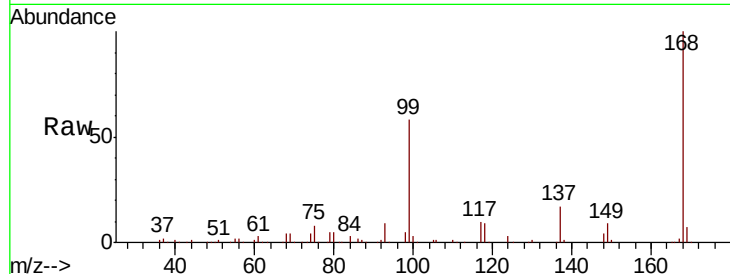




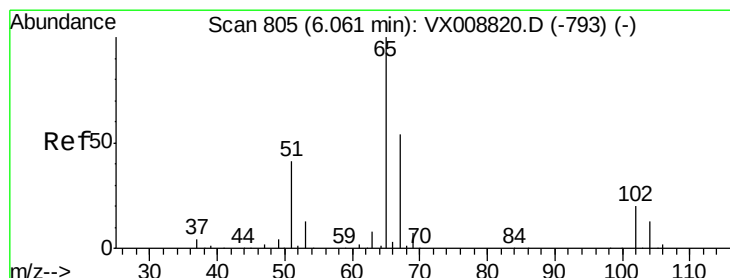
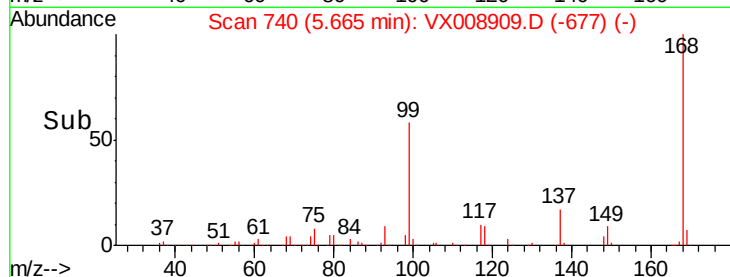
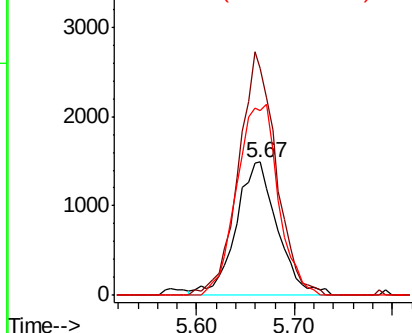
#31
Cyclohexane
Concen: 0.948 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX008909.D
Acq: 13 Apr 2019 00:52

Instrument :
MSVOA_X
ClientSampleId :
0238-COMP-CS-3-ELTRT-DISS

Tot Ion: 56 Resp: 4403
Ion Ratio Lower Upper
56 100
69 170.4 22.6 33.8#
84 138.5 59.3 88.9#

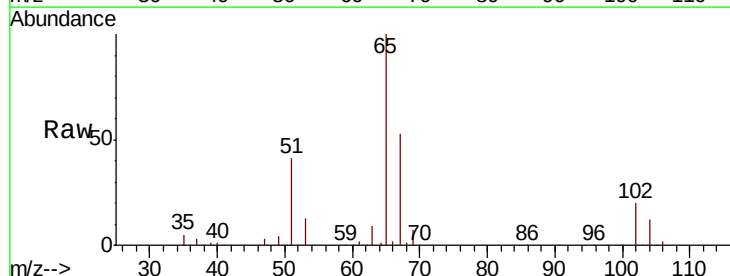


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

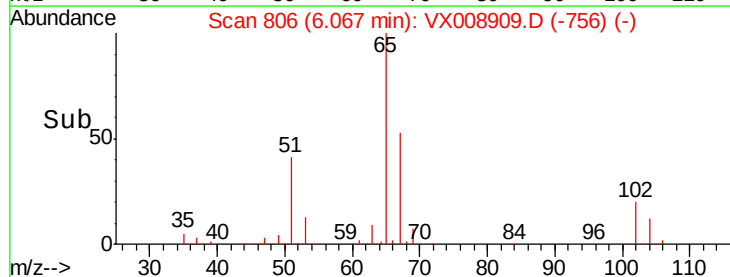
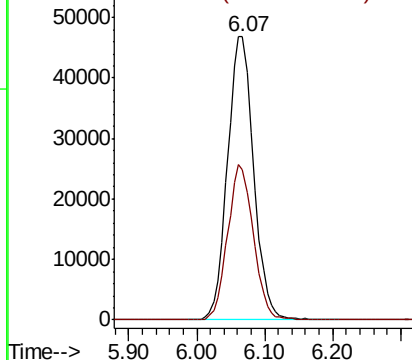


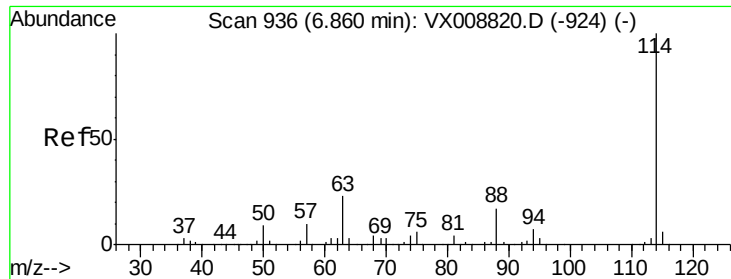
#33
1,2-Dichloroethane-d4
Concen: 46.454 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX008909.D
Acq: 13 Apr 2019 00:52

Tgt Ion: 65 Resp: 124892
Ion Ratio Lower Upper
65 100
67 54.0 0.0 107.2



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

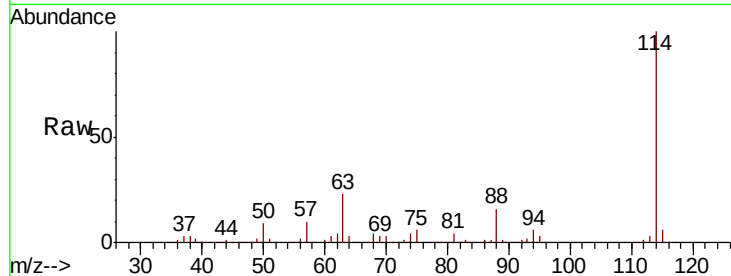




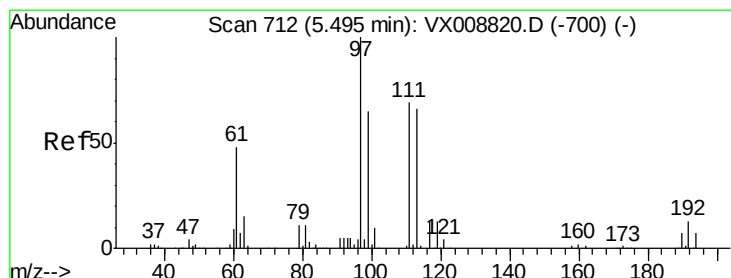
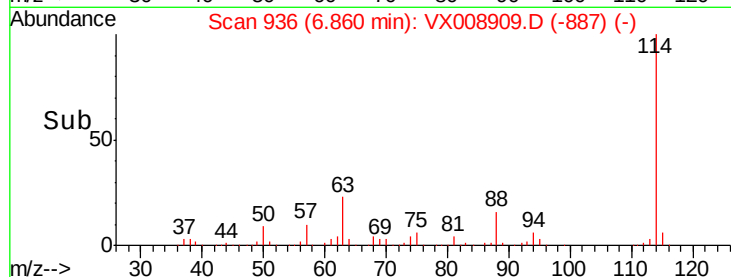
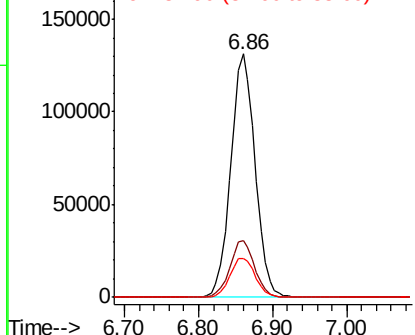
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008909.D
 Acq: 13 Apr 2019 00:52

Instrument :
 MSVOA_X
 ClientSampleId :
 0238-COMP-CS-3-ELTRT-DISS

Tot Ion:114 Resp: 300522
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 47.2
 88 15.9 0.0 34.0

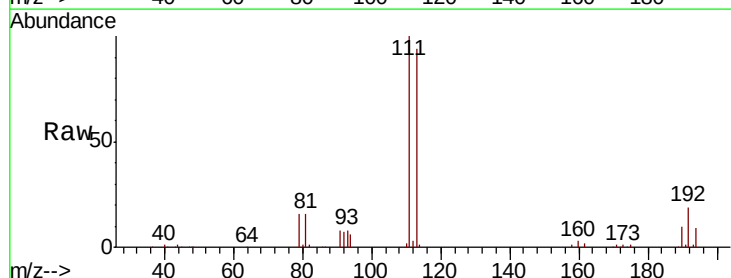


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

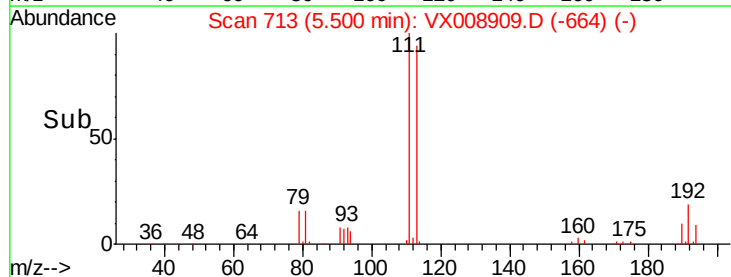
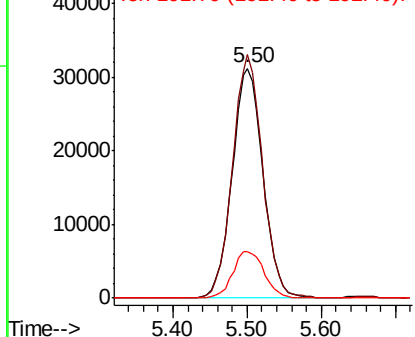


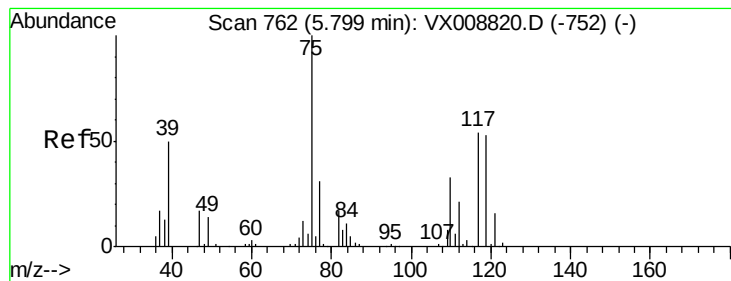
#35
 Dibromofluoromethane
 Concen: 47.150 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX008909.D
 Acq: 13 Apr 2019 00:52

Tgt Ion:113 Resp: 90596
 Ion Ratio Lower Upper
 113 100
 111 102.8 83.4 125.2
 192 20.6 16.1 24.1



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: 4.717 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008909.D

Acq: 13 Apr 2019 00:52

Instrument :

MSVOA_X

ClientSampleId :

0238-COMP-CS-3-ELTRT-DISS

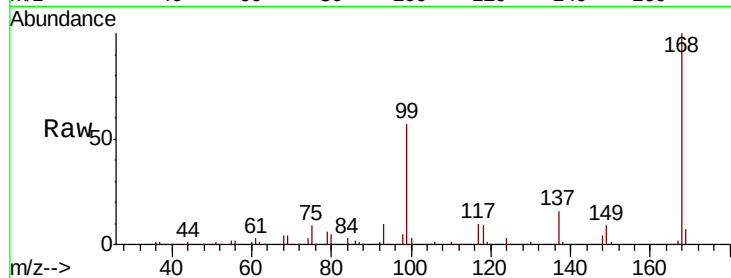
Tot Ion: 75 Resp: 15497

Ion Ratio Lower Upper

75 100

110 8.0 16.4 49.2#

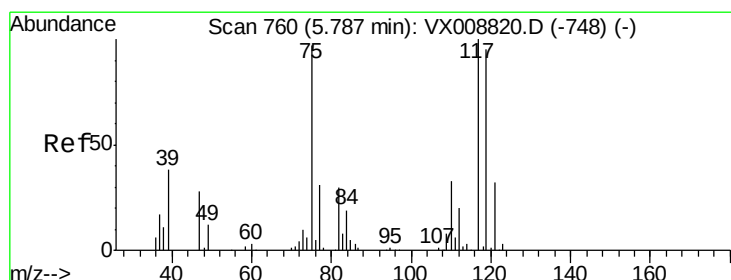
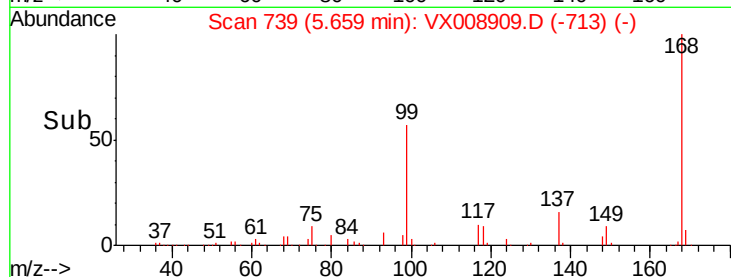
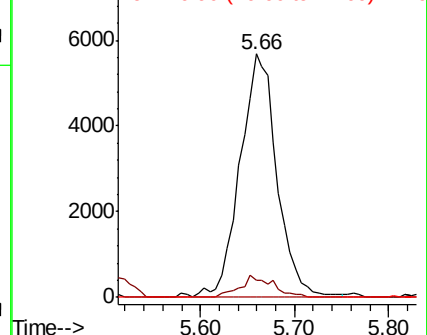
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VX008820.D (-752) (-)

Ion 109.90 (109.60 to 110.60): VX008820.D (-752) (-)

Ion 76.90 (76.60 to 77.60): VX008820.D (-752) (-)



#38

Carbon Tetrachloride

Concen: 6.568 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008909.D

Acq: 13 Apr 2019 00:52

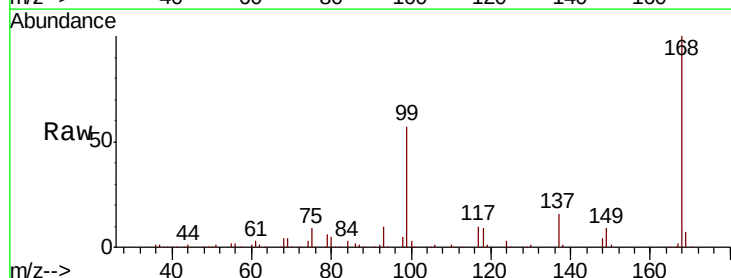
Tgt Ion: 117 Resp: 17858

Ion Ratio Lower Upper

117 100

119 5.3 75.0 112.6#

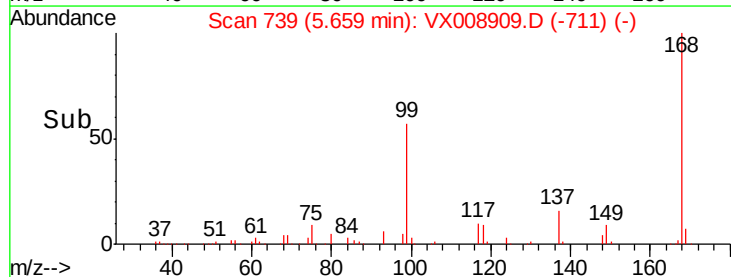
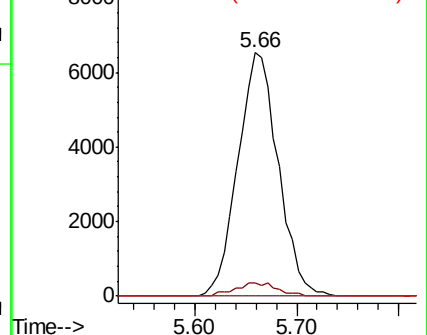
121 0.0 24.3 36.5#

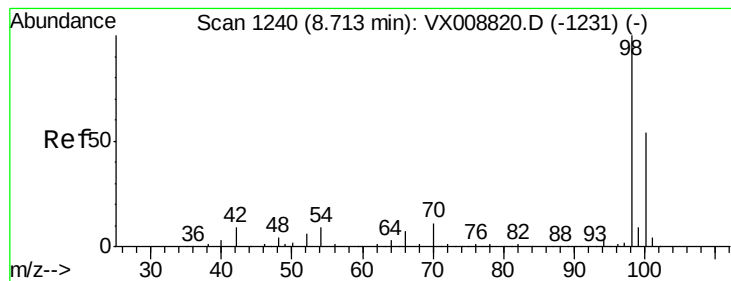


Abundance Ion 116.80 (116.50 to 117.50): VX008820.D (-748) (-)

Ion 118.80 (118.50 to 119.50): VX008820.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX008820.D (-748) (-)





#50

Toluene-d8

Concen: 48.467 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008909.D

Acq: 13 Apr 2019 00:52

Instrument :

MSVOA_X

ClientSampleId :

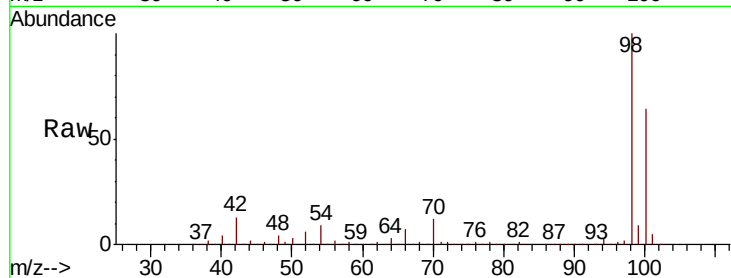
0238-COMP-CS-3-ELTRT-DISS

Tot Ion: 98 Resp: 370804

Ion Ratio Lower Upper

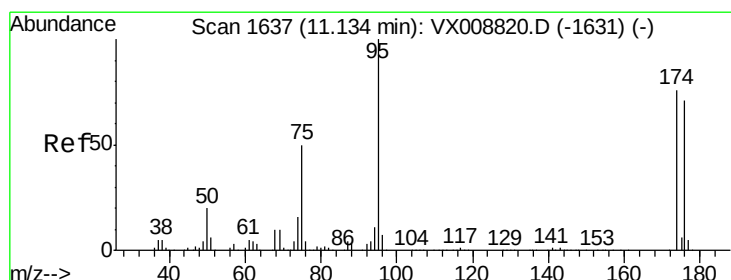
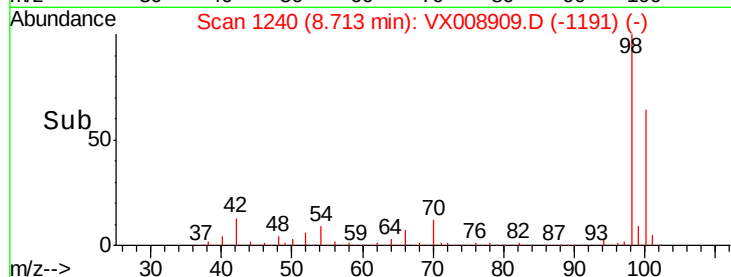
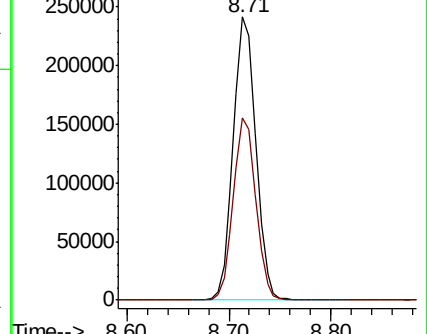
98 100

100 63.9 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 43.318 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008909.D

Acq: 13 Apr 2019 00:52

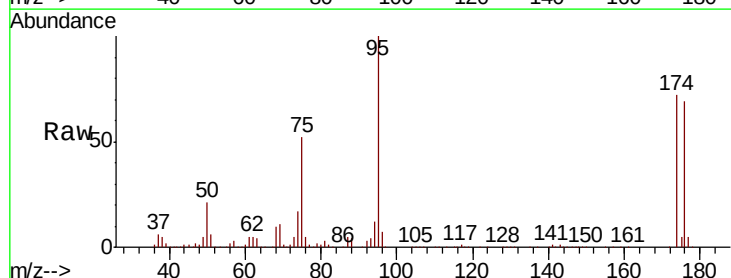
Tgt Ion: 95 Resp: 117524

Ion Ratio Lower Upper

95 100

174 79.1 0.0 151.8

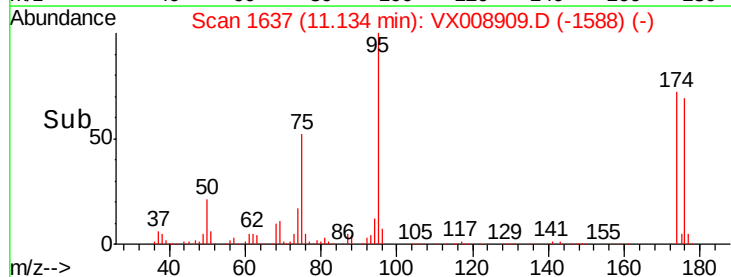
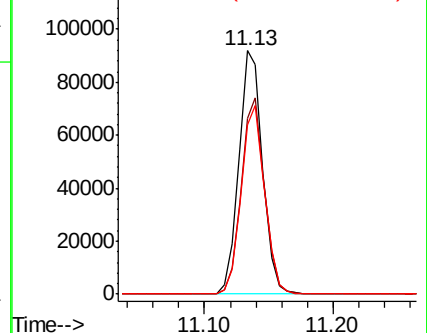
176 76.7 0.0 145.8

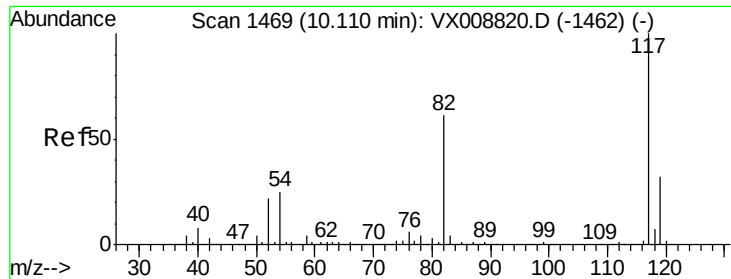


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

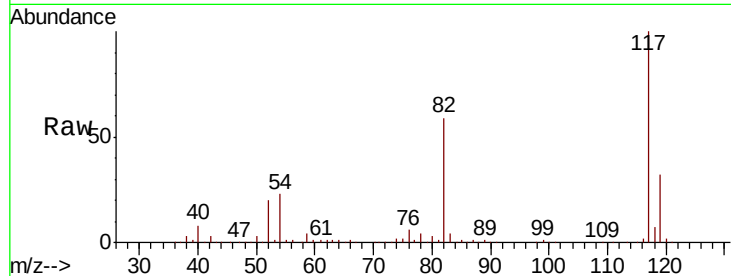




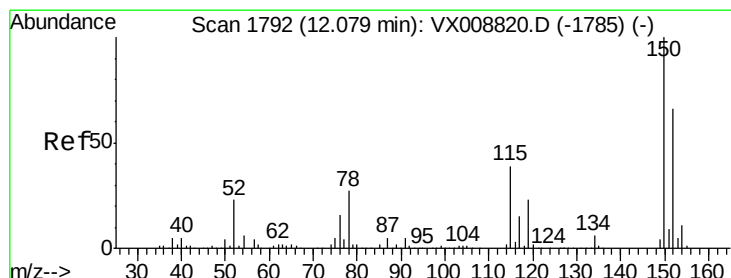
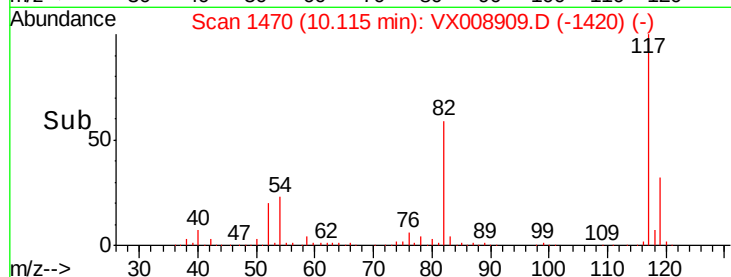
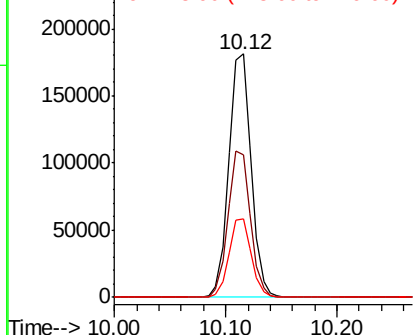
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008909.D
Acq: 13 Apr 2019 00:52

Instrument :
MSVOA_X
ClientSampleId :
0238-COMP-CS-3-ELTRT-DISS

Tot Ion:117 Resp: 251728
Ion Ratio Lower Upper
117 100
82 58.7 49.6 74.4
119 32.0 25.0 37.4

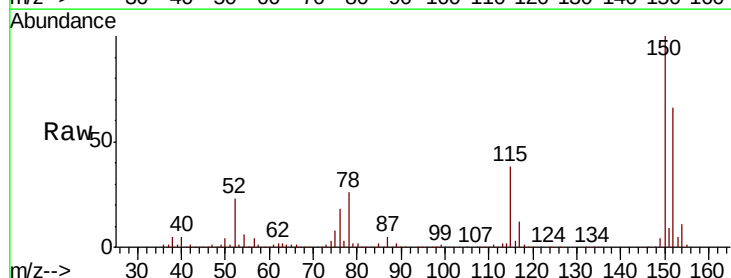


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

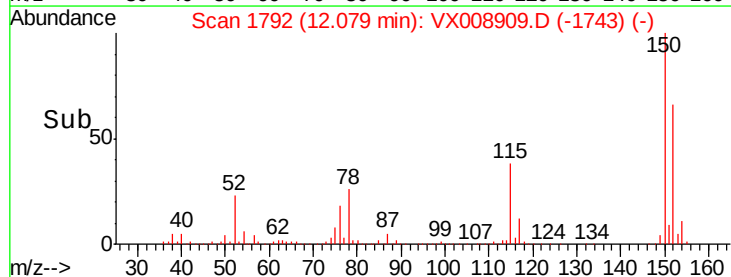
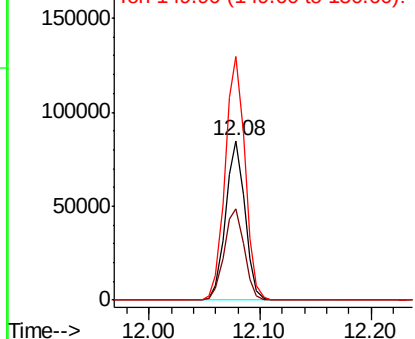


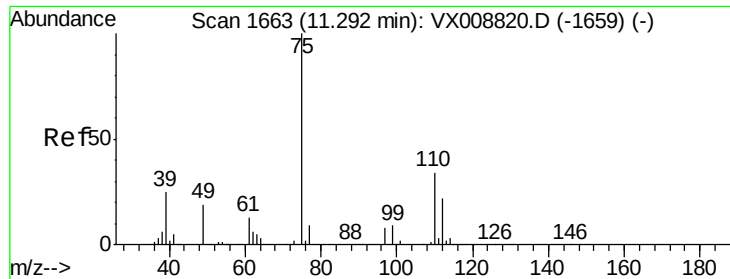
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX008909.D
Acq: 13 Apr 2019 00:52

Tgt Ion:152 Resp: 101606
Ion Ratio Lower Upper
152 100
115 59.6 43.5 130.5
150 156.7 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: 21.690 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008909.D

Acq: 13 Apr 2019 00:52

Instrument :

MSVOA_X

ClientSampleId :

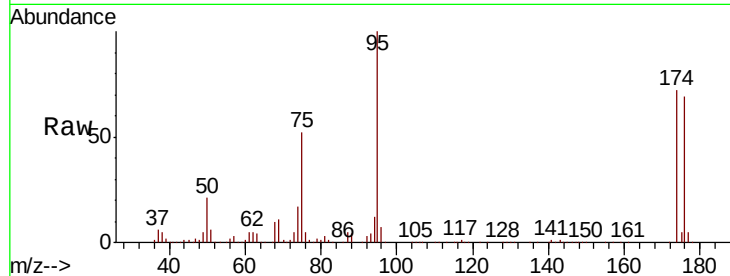
0238-COMP-CS-3-ELTRT-DISS

Tot Ion: 75 Resp: 60541

Ion Ratio Lower Upper

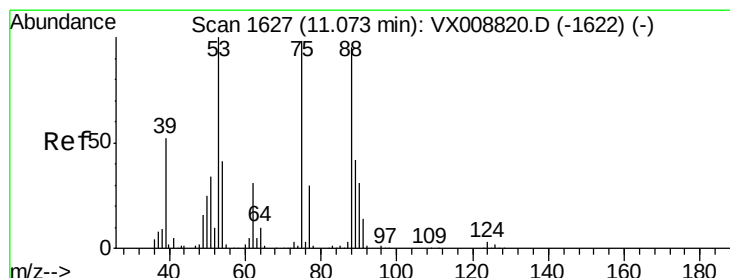
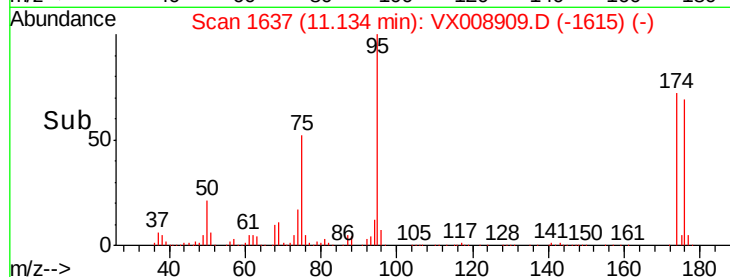
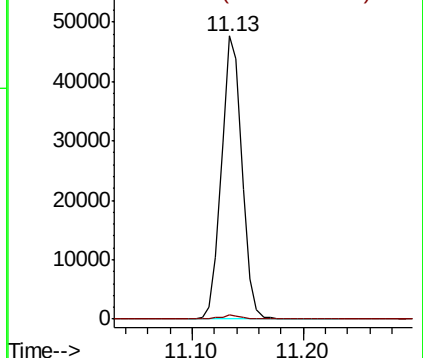
75 100

77 1.6 22.3 66.8#



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: 59.789 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008909.D

Acq: 13 Apr 2019 00:52

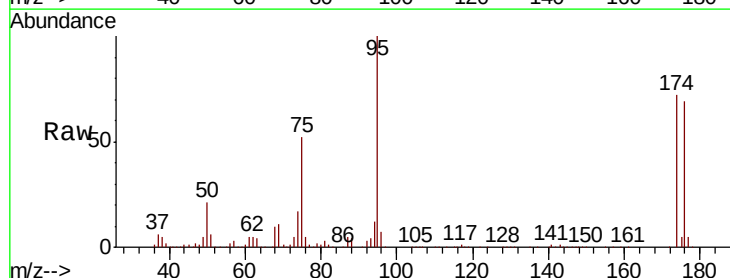
Tgt Ion: 75 Resp: 60541

Ion Ratio Lower Upper

75 100

53 0.2 81.3 121.9#

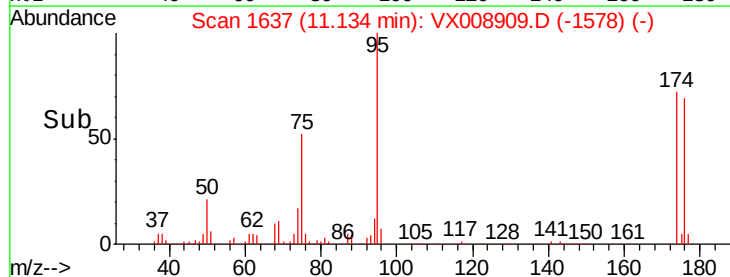
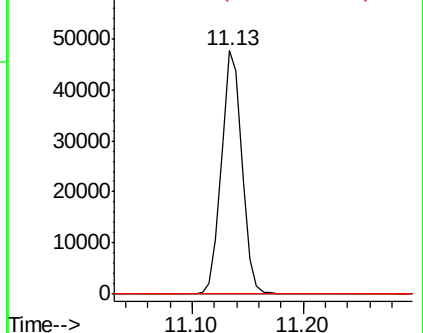
89 0.0 35.6 53.4#

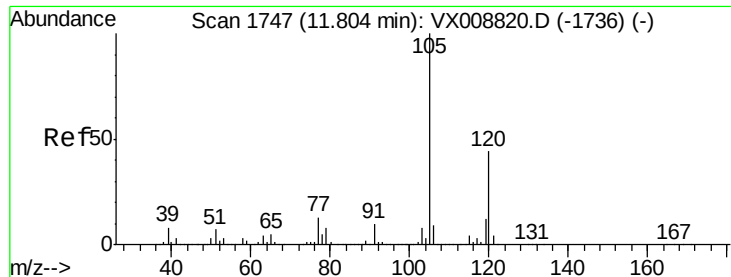


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#84
 1,2,4-Trimethylbenzene
 Concen: 0.319 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. 0.01 min
 Lab File: VX008909.D
 Acq: 13 Apr 2019 00:52

Instrument :
 MSVOA_X
 ClientSampleId :
 0238-COMP-CS-3-ELTRT-DISS

Tot Ion:105 Resp: 2284
 Ion Ratio Lower Upper
 105 100
 120 4.9 21.8 65.3#

