

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041219\
 Data File : VX008906.D
 Acq On : 12 Apr 2019 23:41
 Operator : JC/SP
 Sample : K2311-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 0239-COMP-CS-4-ELTRT-DISS

Quant Time: Apr 13 05:04:29 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	187964	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	304274	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	263720	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	112322	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	126322	46.08	ug/l	0.00
Spiked Amount			Recovery	=	92.16%	
35) Dibromofluoromethane	5.50	113	90704	46.62	ug/l	0.00
Spiked Amount			Recovery	=	93.24%	
50) Toluene-d8	8.71	98	378450	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
62) 4-Bromofluorobenzene	11.13	95	126650	46.11	ug/l	0.00
Spiked Amount			Recovery	=	92.22%	

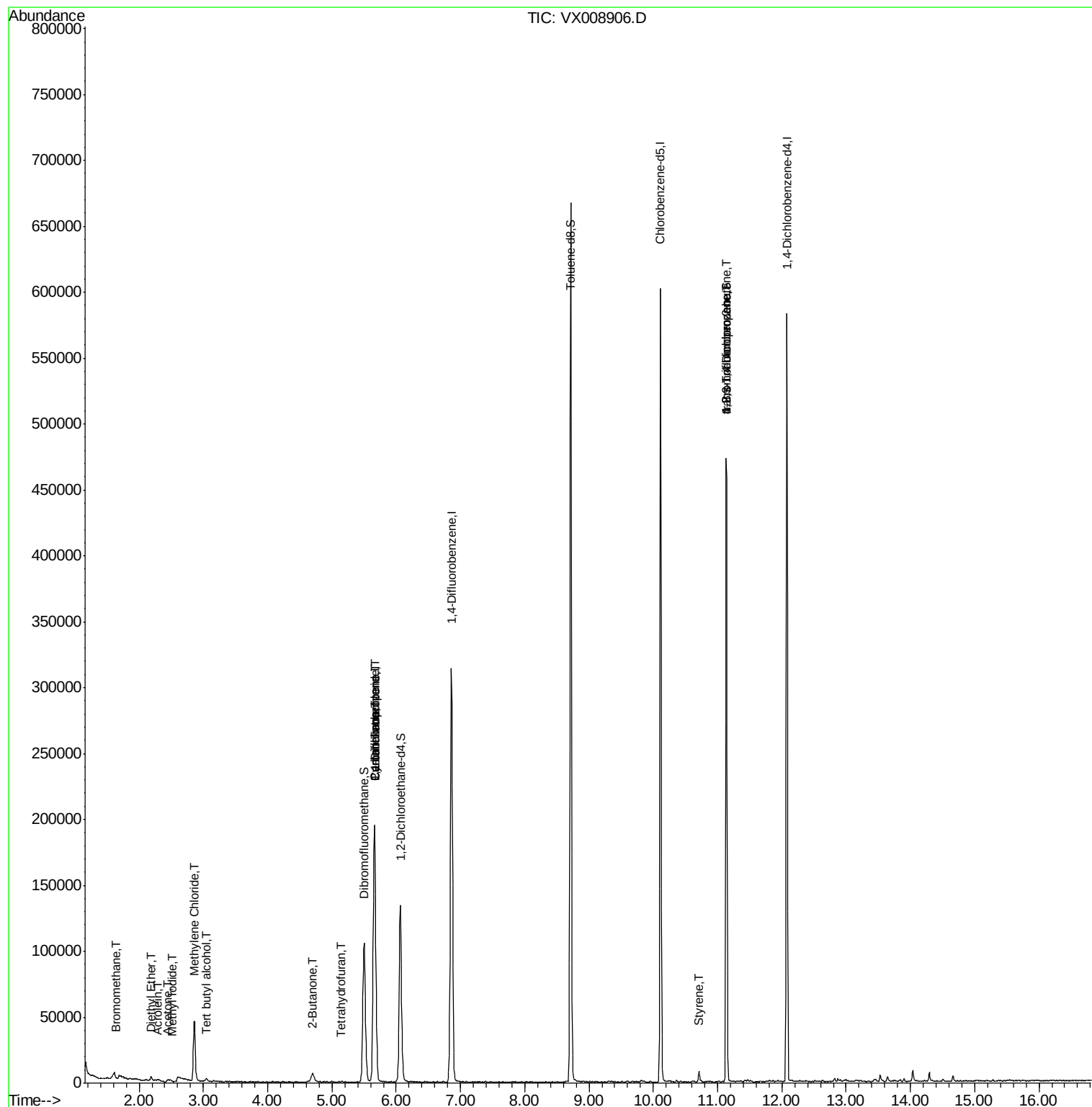
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	299	Below Cal	#	64
5) Bromomethane	1.65	94	336	2.110	ug/l	87
6) Chloroethane	1.72	64	20	Below Cal	#	43
8) Diethyl Ether	2.19	74	947	0.618	ug/l	86
10) Methyl Iodide	2.52	142	311	4.154	ug/l #	72
11) Tert butyl alcohol	3.05	59	2463	3.837	ug/l	97
13) Acrolein	2.29	56	111	0.349	ug/l #	52
16) Acetone	2.45	43	1483	0.939	ug/l	95
17) Carbon Disulfide	2.57	76	1028	Below Cal	#	95
20) Methylene Chloride	2.85	84	21073	7.973	ug/l	95
25) 2-Butanone	4.70	43	804	0.322	ug/l	96
28) Bromochloromethane	5.01	49	68	Below Cal	#	22
29) Tetrahydrofuran	5.15	42	527	0.318	ug/l #	48
31) Cyclohexane	5.66	56	4420	0.933	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15287	4.596	ug/l #	47
38) Carbon Tetrachloride	5.66	117	17798	6.465	ug/l #	17
70) Styrene	10.71	104	2923	0.446	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	64688	20.965	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	64688	57.790	ug/l #	9

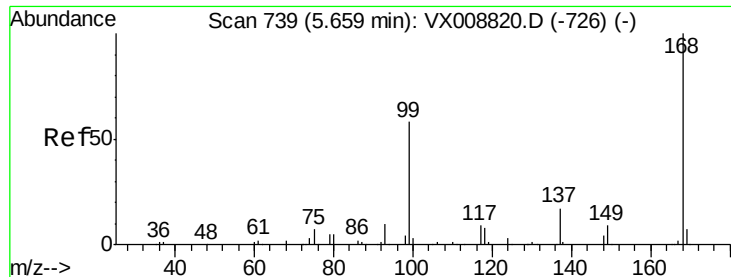
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX008906.D

Acq: 12 Apr 2019 23:41

Instrument :

MSVOA_X

ClientSampleId :

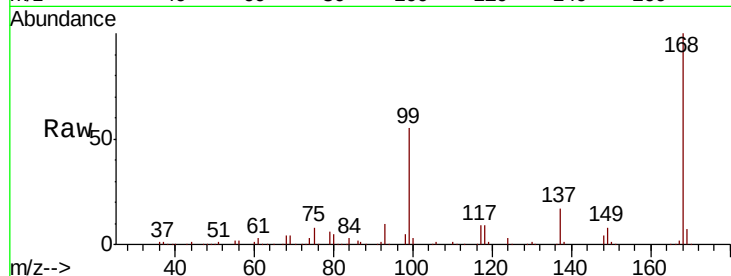
0239-COMP-CS-4-ELTRT-DISS

Tot Ion:168 Resp: 187964

Ion Ratio Lower Upper

168 100

99 55.4 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

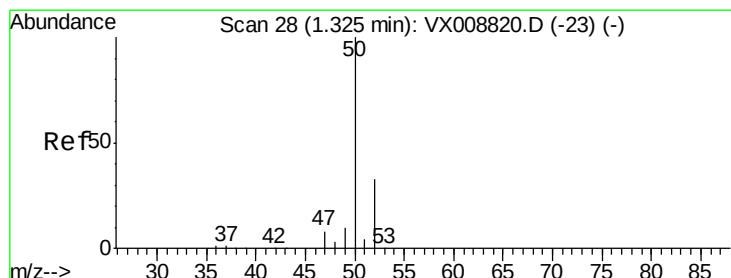
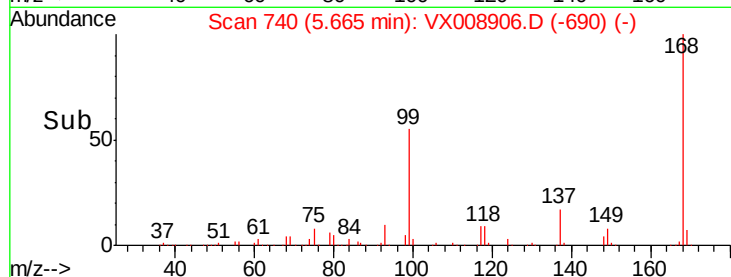
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008906.D

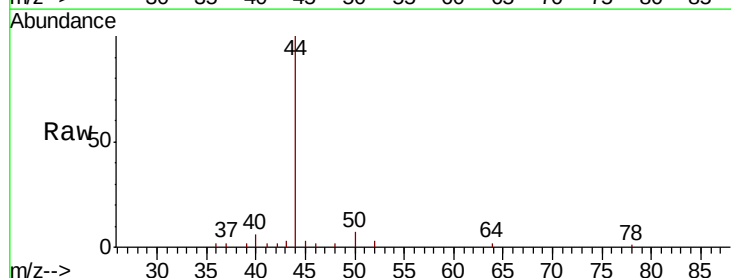
Acq: 12 Apr 2019 23:41

Tgt Ion: 50 Resp: 299

Ion Ratio Lower Upper

50 100

52 52.2 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

250

200

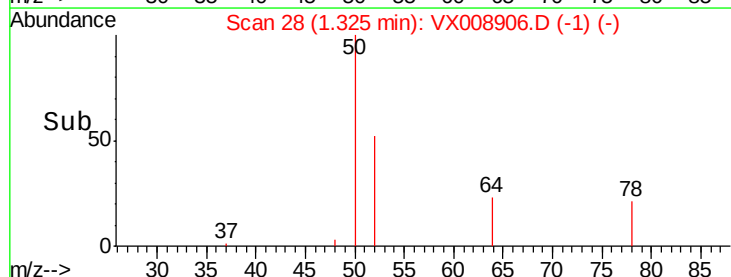
150

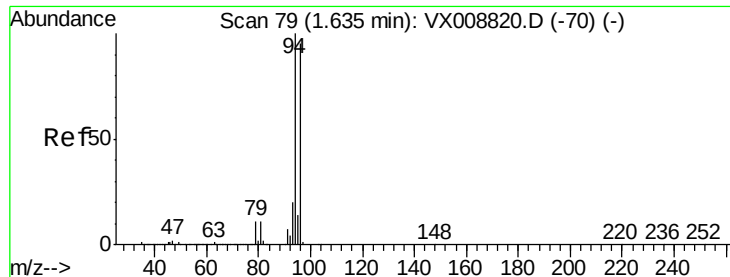
100

50

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 2.110 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008906.D

Acq: 12 Apr 2019 23:41

Instrument :

MSVOA_X

ClientSampleId :

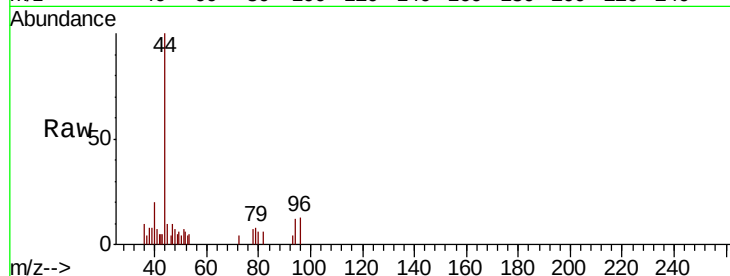
0239-COMP-CS-4-ELTRT-DISS

Tot Ion: 94 Resp: 336

Ion Ratio Lower Upper

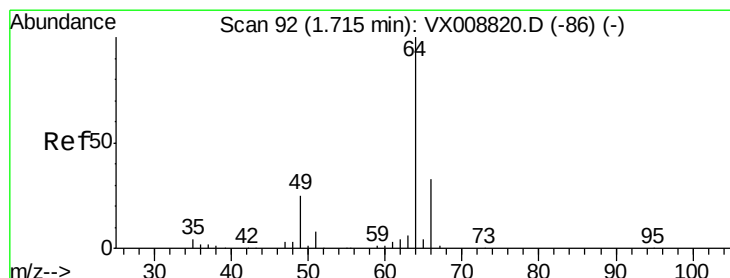
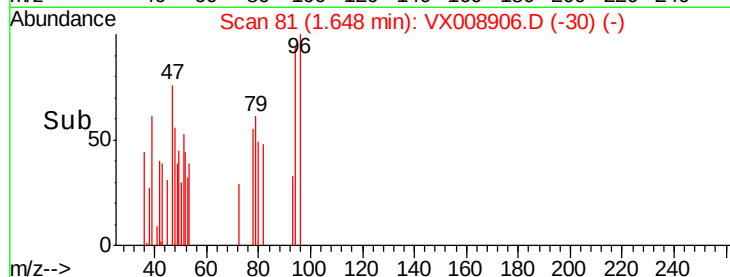
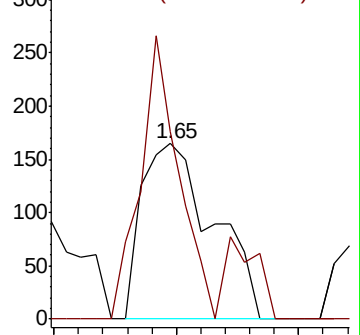
94 100

96 106.7 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX008906.D

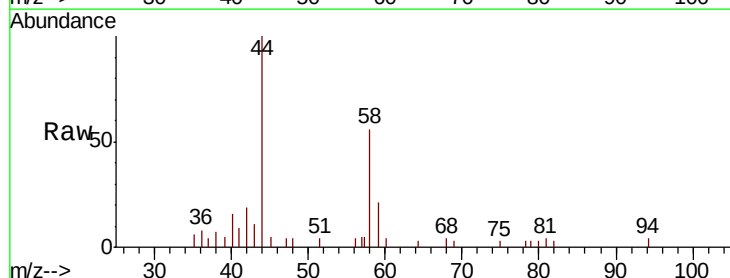
Acq: 12 Apr 2019 23:41

Tgt Ion: 64 Resp: 20

Ion Ratio Lower Upper

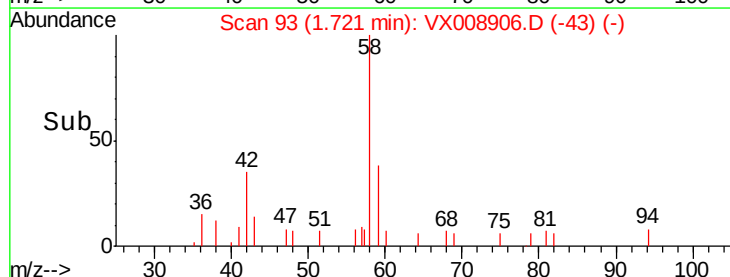
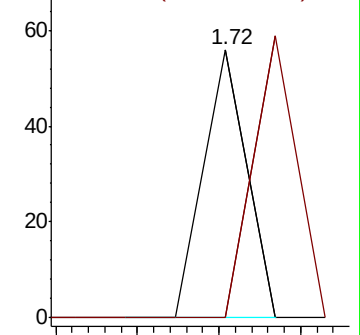
64 100

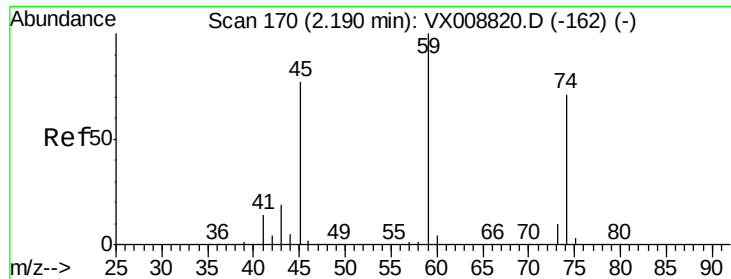
66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#8

Diethyl Ether

Concen: 0.618 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX008906.D

Acq: 12 Apr 2019 23:41

Instrument :

MSVOA_X

ClientSampleId :

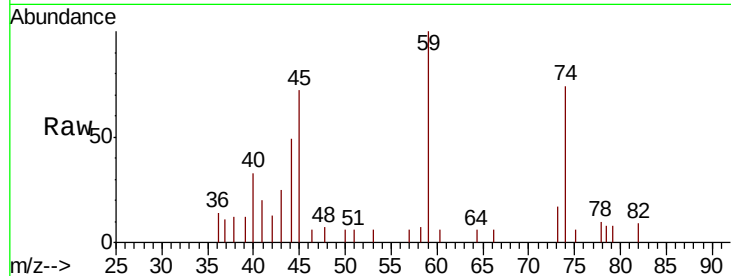
0239-COMP-CS-4-ELTRT-DISS

Tot Ion: 74 Resp: 947

Ion Ratio Lower Upper

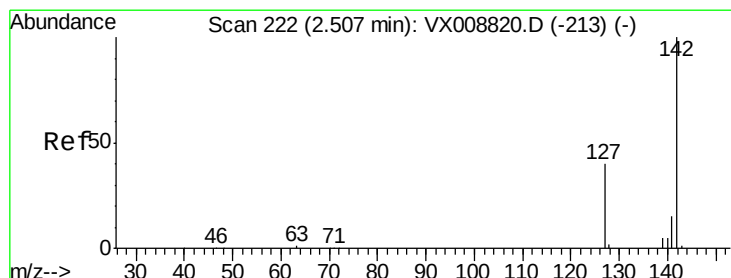
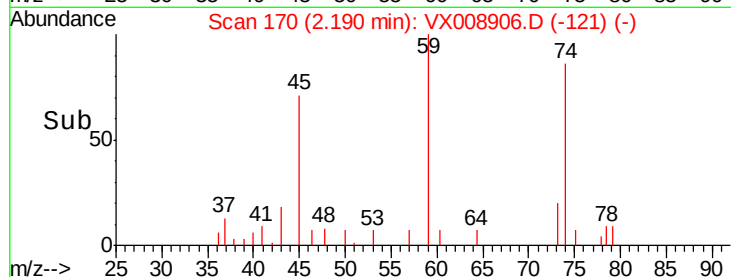
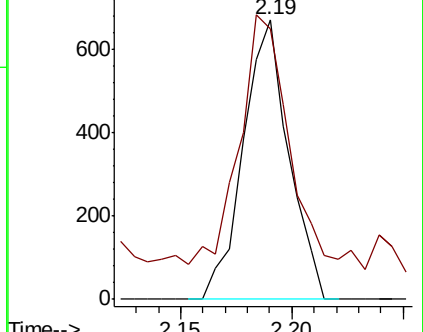
74 100

45 97.5 56.5 169.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 4.154 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX008906.D

Acq: 12 Apr 2019 23:41

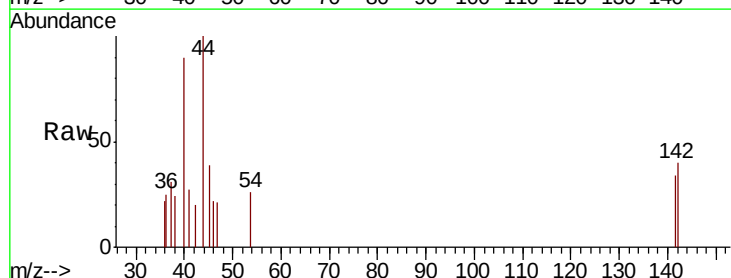
Tgt Ion: 142 Resp: 311

Ion Ratio Lower Upper

142 100

127 25.4 33.0 49.6#

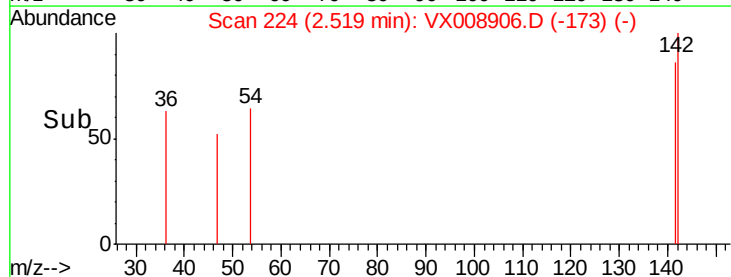
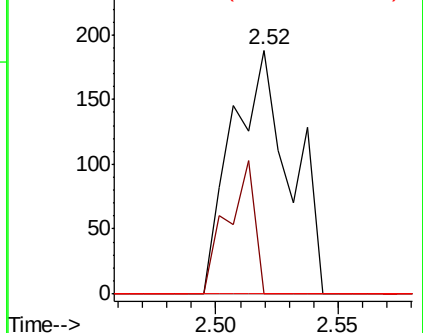
141 0.0 11.4 17.2#

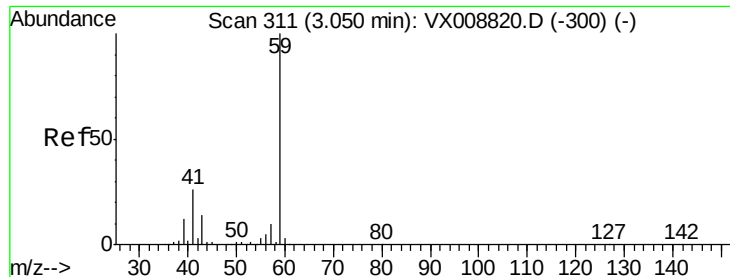


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



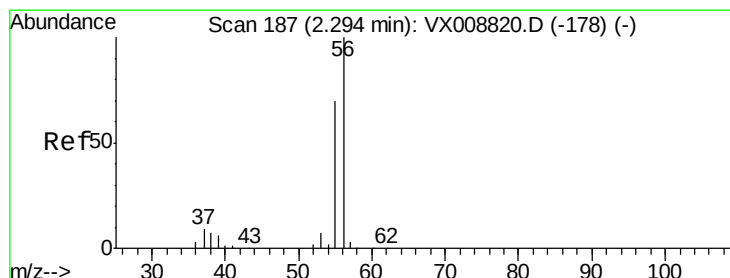
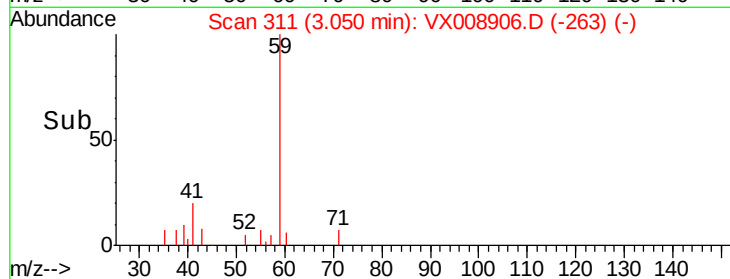
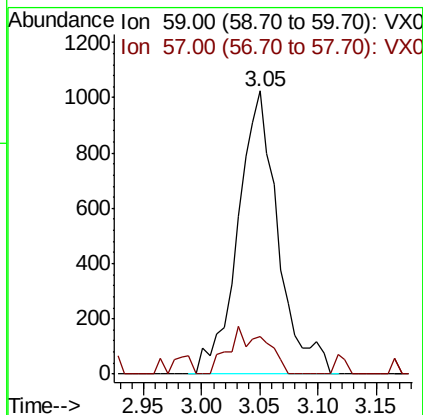
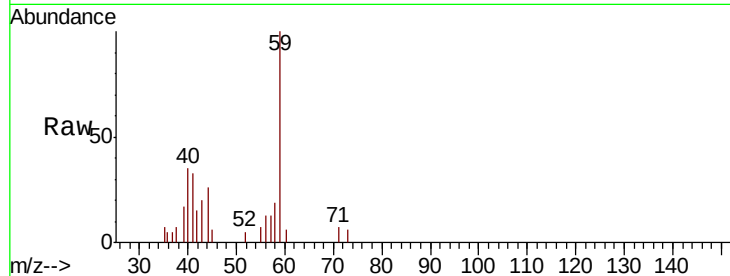


#11

Tert butyl alcohol
 Concen: 3.837 ug/l
 RT: 3.05 min Scan# 311
 Delta R.T. -0.01 min
 Lab File: VX008906.D
 Acq: 12 Apr 2019 23:41

Instrument :
 MSVOA_X
 ClientSampleId :
 0239-COMP-CS-4-ELTRT-DISS

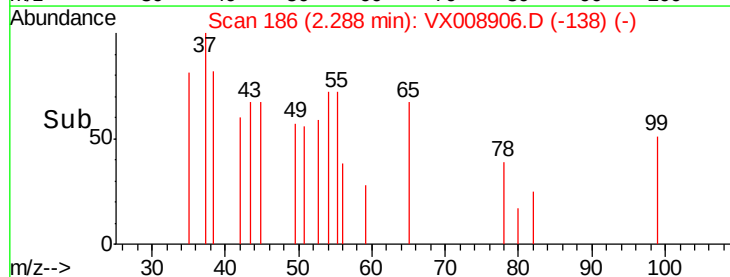
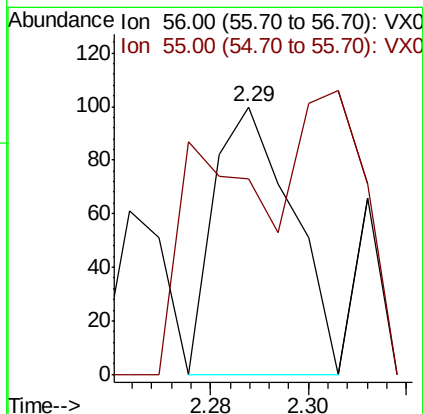
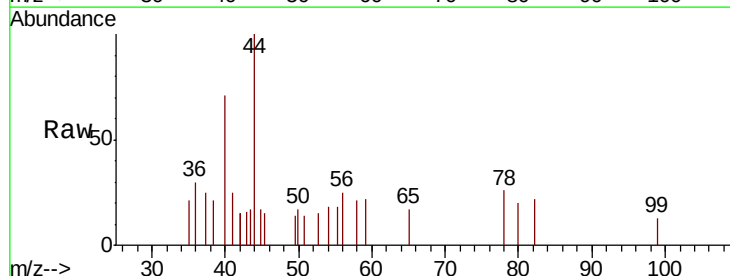
Tot Ion: 59 Resp: 2463
 Ion Ratio Lower Upper
 59 100
 57 9.3 8.3 12.5

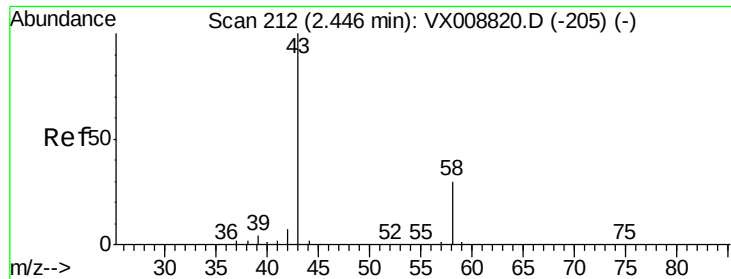


#13

Acrolein
 Concen: 0.349 ug/l
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX008906.D
 Acq: 12 Apr 2019 23:41

Tgt Ion: 56 Resp: 111
 Ion Ratio Lower Upper
 56 100
 55 112.6 58.0 87.0#





#16

Acetone

Concen: 0.939 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008906.D

Acq: 12 Apr 2019 23:41

Instrument :

MSVOA_X

ClientSampleId :

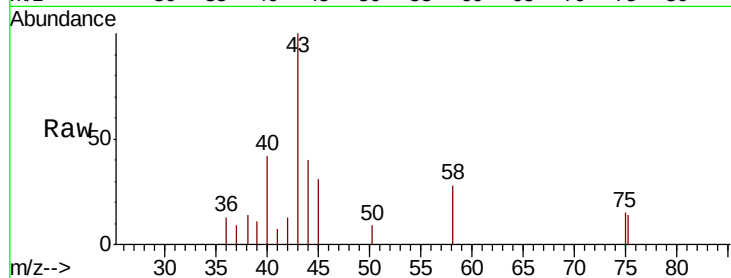
0239-COMP-CS-4-ELTRT-DISS

Tot Ion: 43 Resp: 1483

Ion Ratio Lower Upper

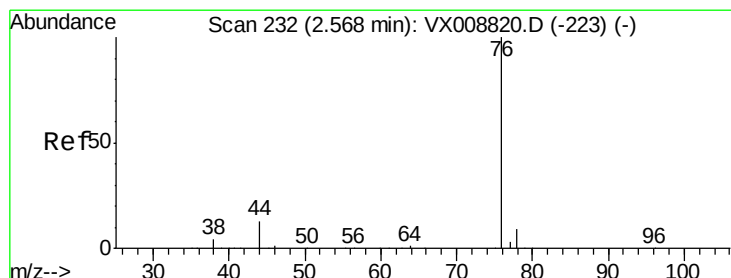
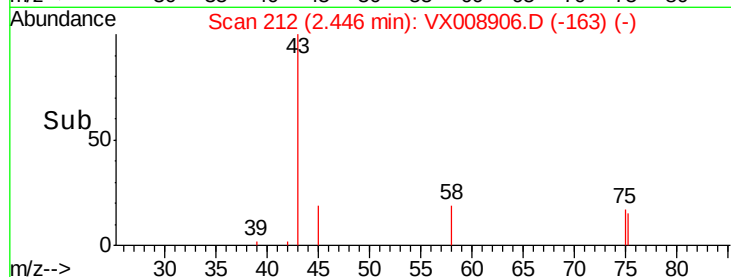
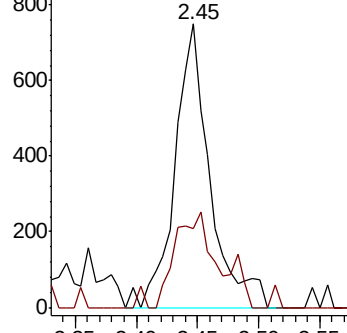
43 100

58 28.0 24.8 37.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008906.D

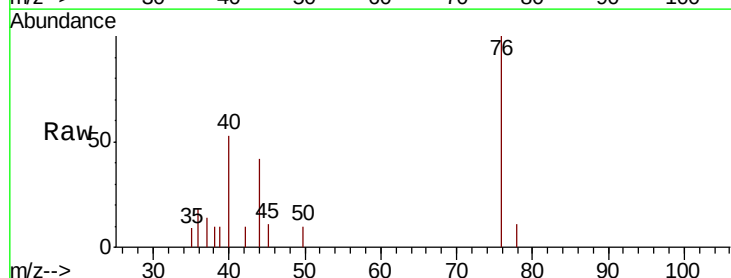
Acq: 12 Apr 2019 23:41

Tgt Ion: 76 Resp: 1028

Ion Ratio Lower Upper

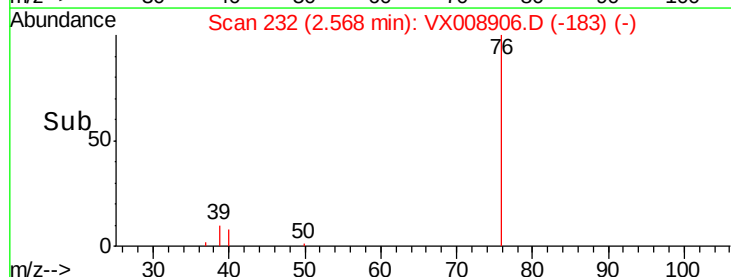
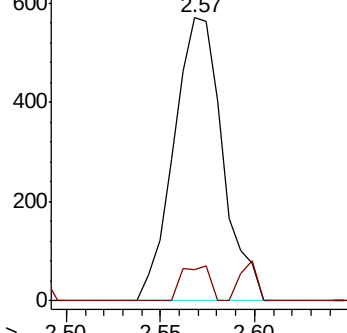
76 100

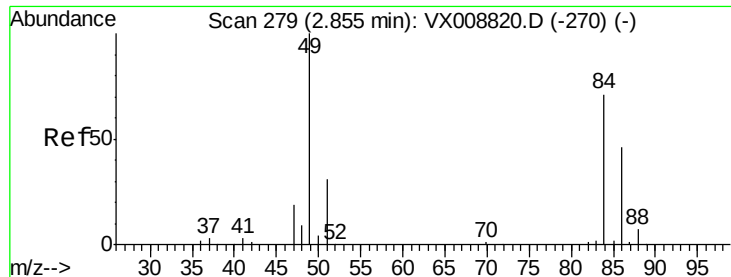
78 10.9 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

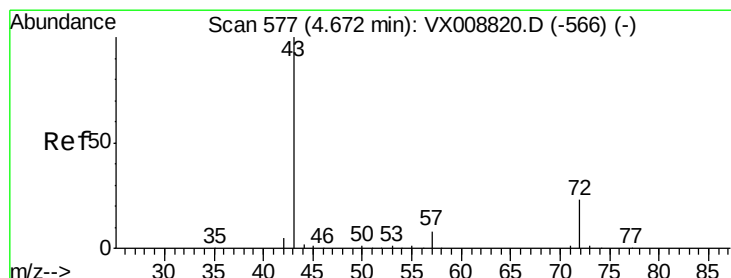
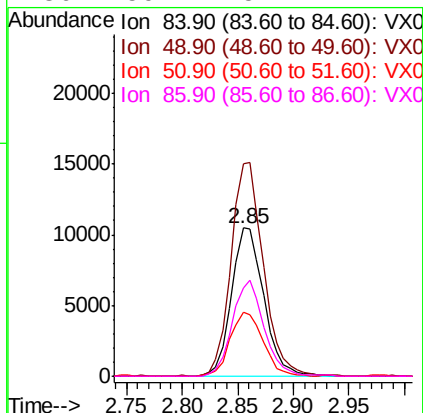
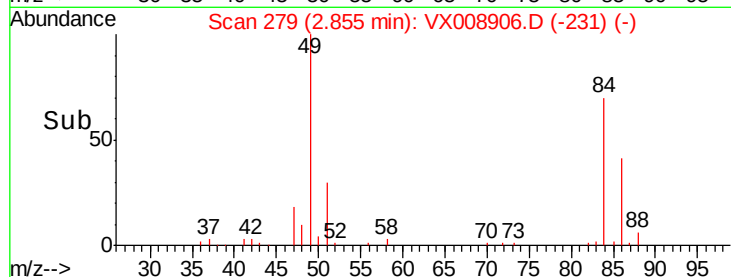
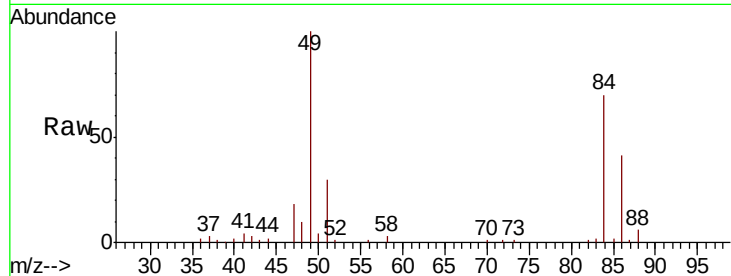




#20
Methvlene Chloride
Concen: 7.973 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX008906.D
Acq: 12 Apr 2019 23:41

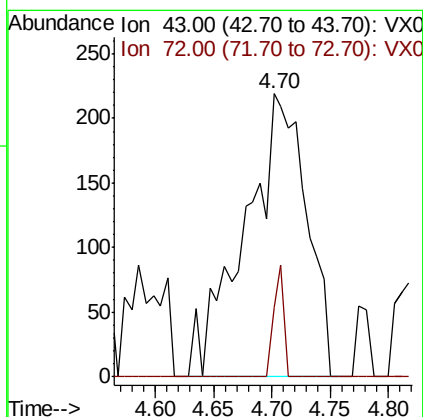
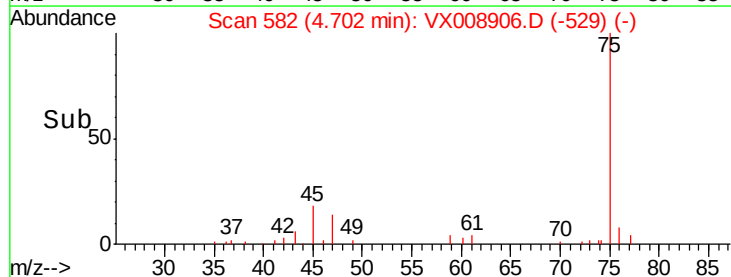
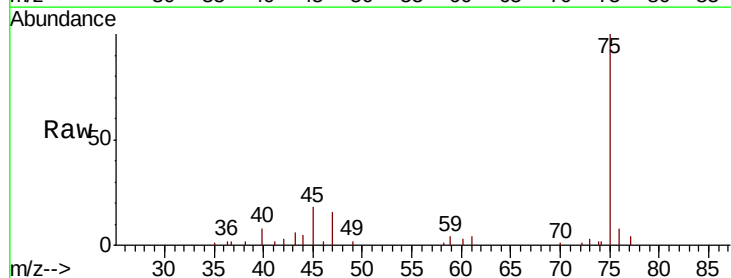
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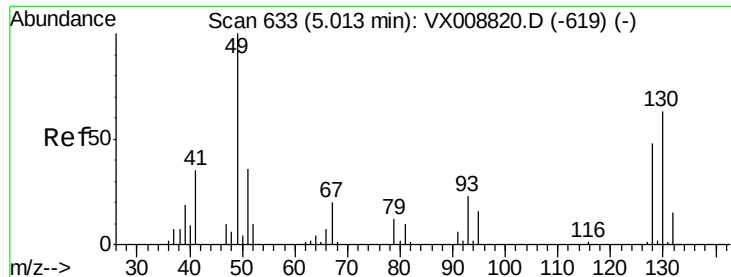
Tot Ion: 84 Resp: 21073
Ion Ratio Lower Upper
84 100
49 143.3 109.7 164.5
51 43.4 33.6 50.4
86 59.4 51.4 77.2



#25
2-Butanone
Concen: 0.322 ug/l
RT: 4.70 min Scan# 582
Delta R.T. 0.02 min
Lab File: VX008906.D
Acq: 12 Apr 2019 23:41

Tgt Ion: 43 Resp: 804
Ion Ratio Lower Upper
43 100
72 24.7 18.2 27.4





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX008906.D

Acq: 12 Apr 2019 23:41

Instrument :

MSVOA_X

ClientSampleId :

0239-COMP-CS-4-ELTRT-DISS

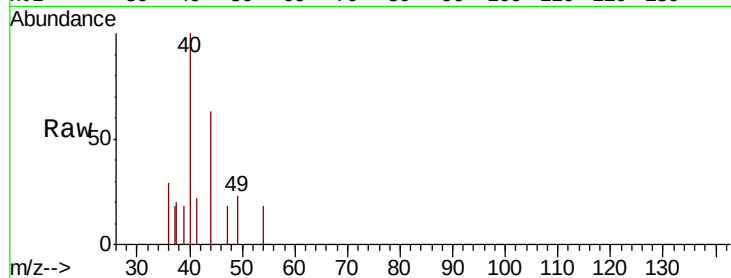
Tot Ion: 49 Resp: 68

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

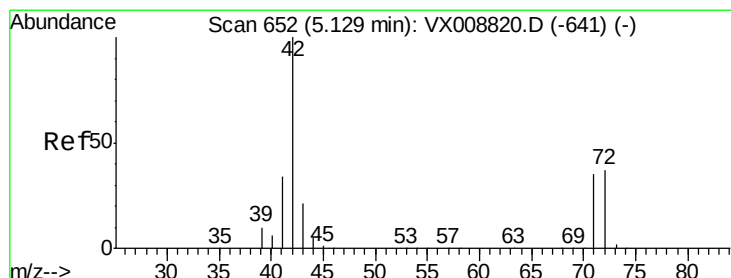
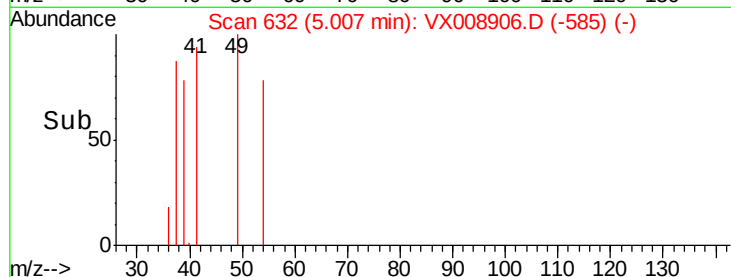
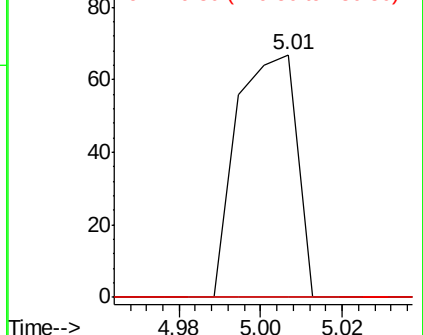
130 0.0 49.3 73.9#



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: 0.318 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX008906.D

Acq: 12 Apr 2019 23:41

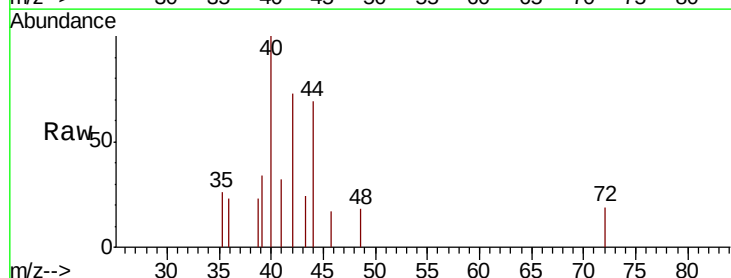
Tgt Ion: 42 Resp: 527

Ion Ratio Lower Upper

42 100

72 12.1 30.5 45.7#

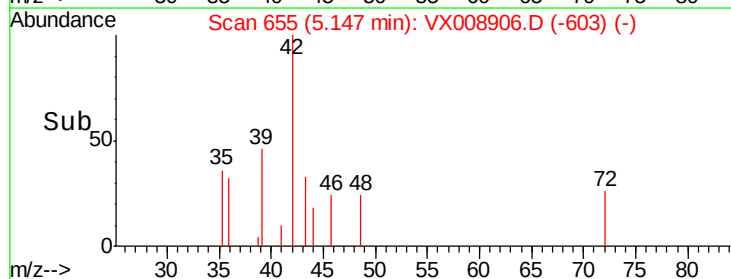
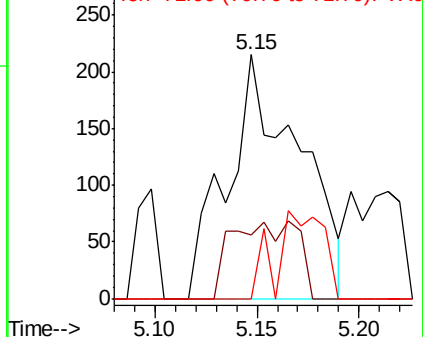
71 0.0 28.6 43.0#

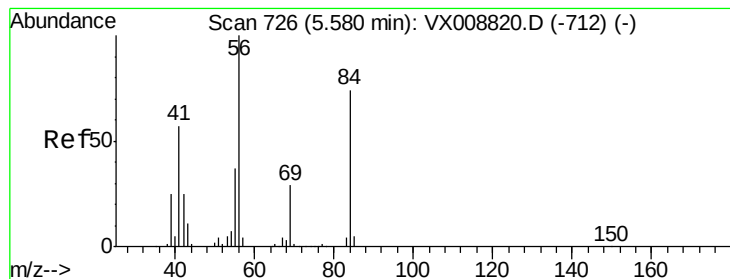


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 0.933 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008906.D

Acq: 12 Apr 2019 23:41

Instrument :

MSVOA_X

ClientSampleId :

0239-COMP-CS-4-ELTRT-DISS

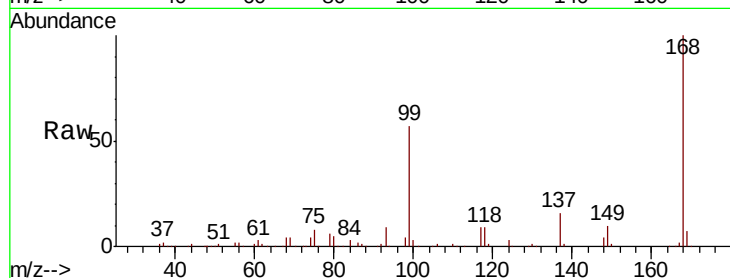
Tot Ion: 56 Resp: 4420

Ion Ratio Lower Upper

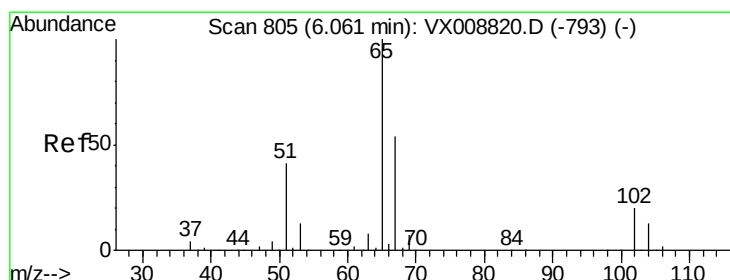
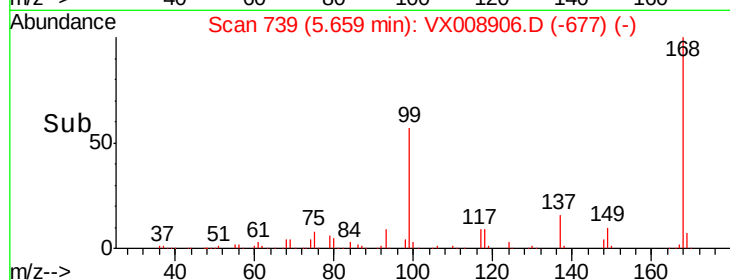
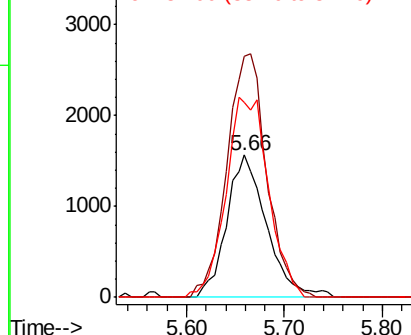
56 100

69 169.0 22.6 33.8#

84 137.3 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: 46.077 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX008906.D

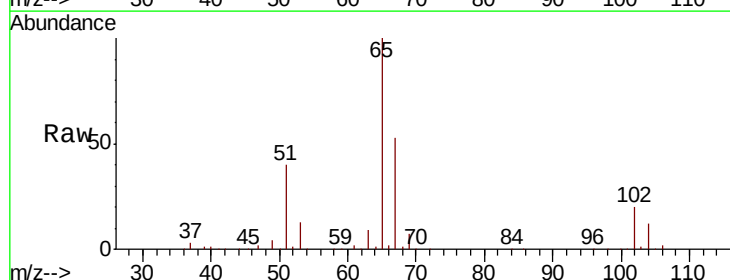
Acq: 12 Apr 2019 23:41

Tgt Ion: 65 Resp: 126322

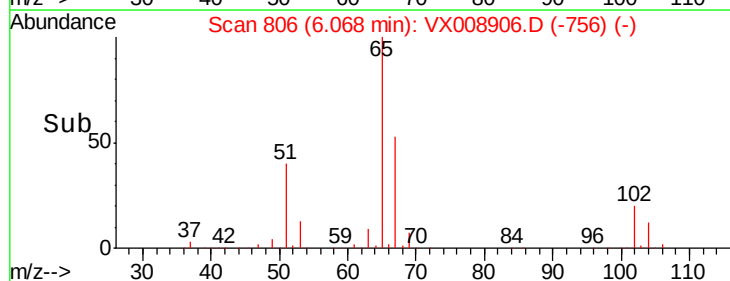
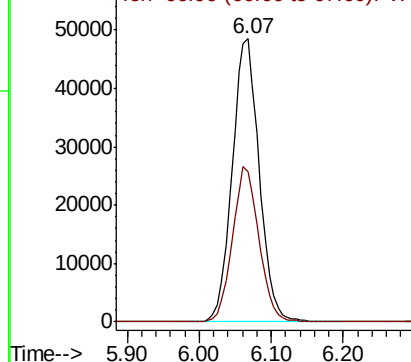
Ion Ratio Lower Upper

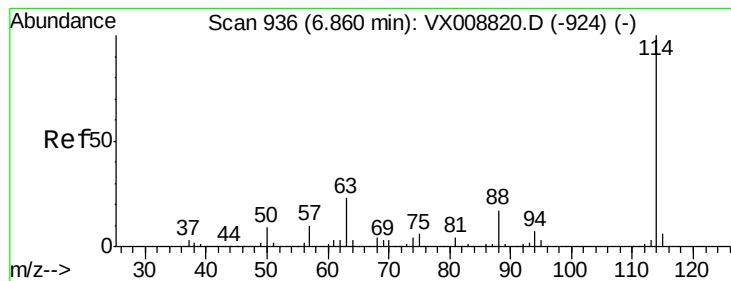
65 100

67 53.7 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: VX008906.D

Acq: 12 Apr 2019 23:41

Instrument :

MSVOA_X

ClientSampleId :

0239-COMP-CS-4-ELTRT-DISS

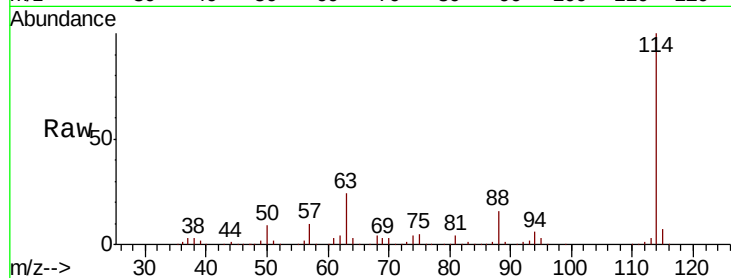
Tot Ion:114 Resp: 304274

Ion Ratio Lower Upper

114 100

63 23.6 0.0 47.2

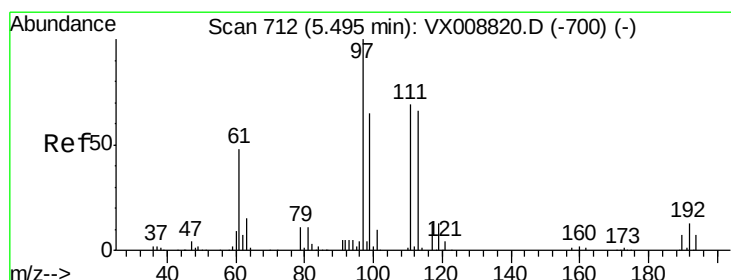
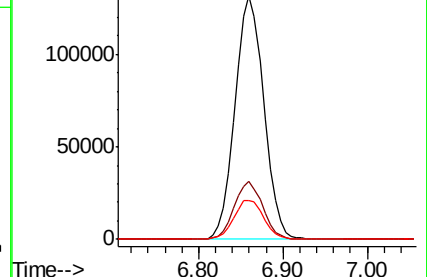
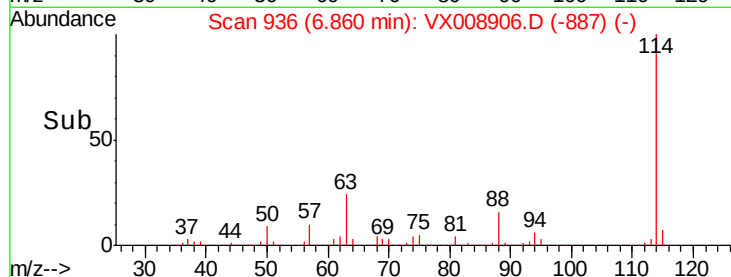
88 16.0 0.0 34.0



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: 46.625 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008906.D

Acq: 12 Apr 2019 23:41

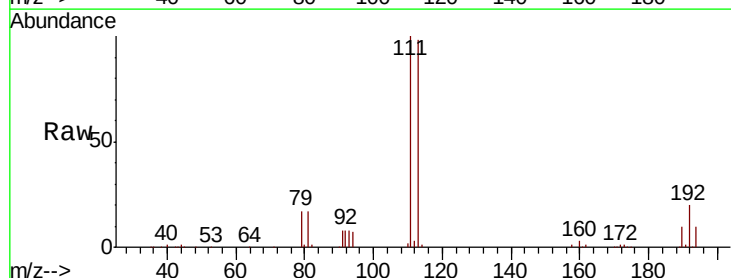
Tgt Ion:113 Resp: 90704

Ion Ratio Lower Upper

113 100

111 103.2 83.4 125.2

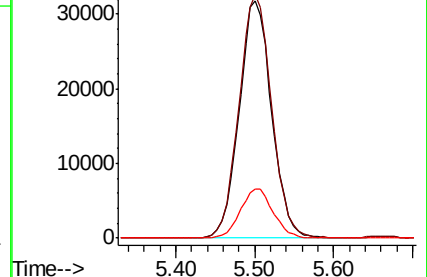
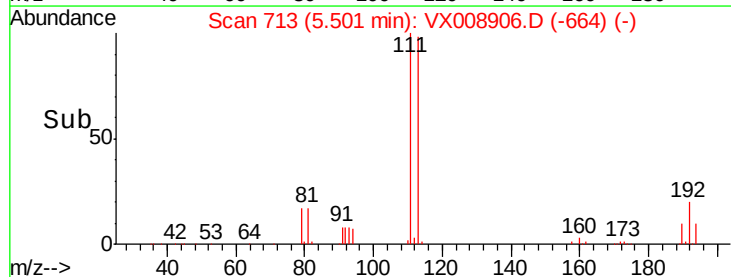
192 21.0 16.1 24.1

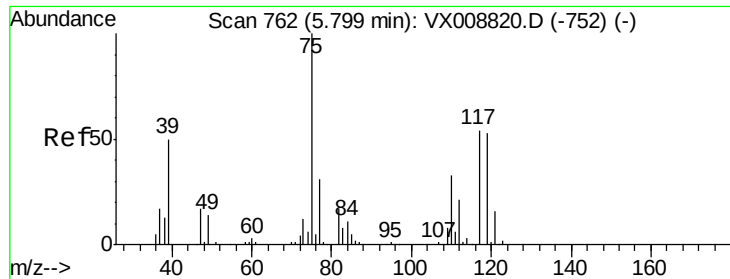


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

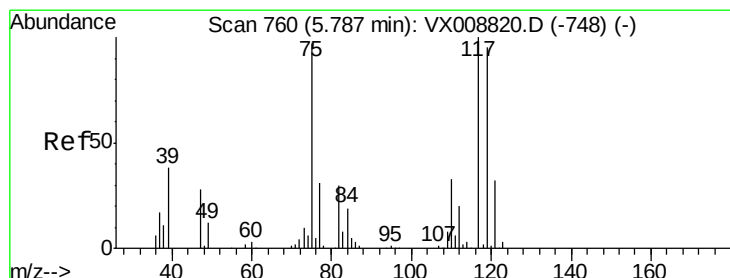
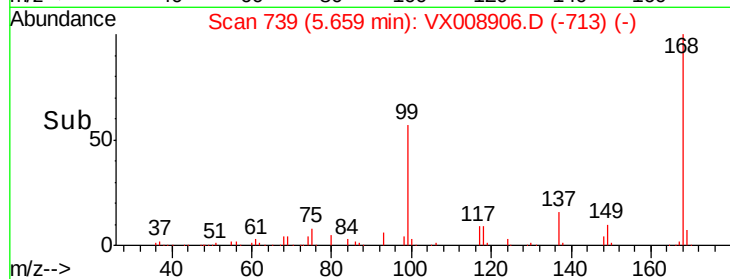
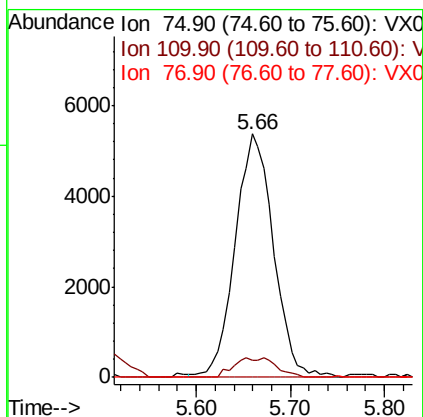
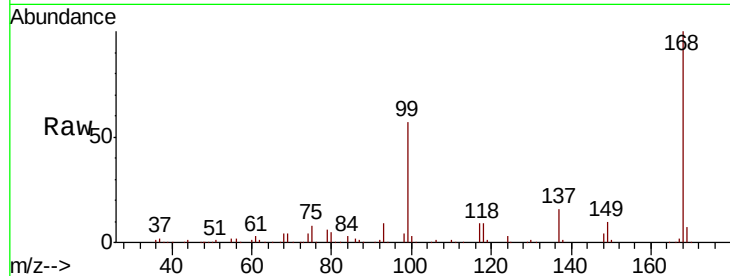




#36
 1,1-Dichloropropene
 Concen: 4.596 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008906.D
 Acq: 12 Apr 2019 23:41

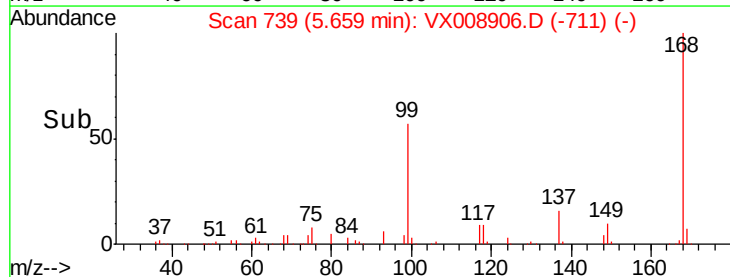
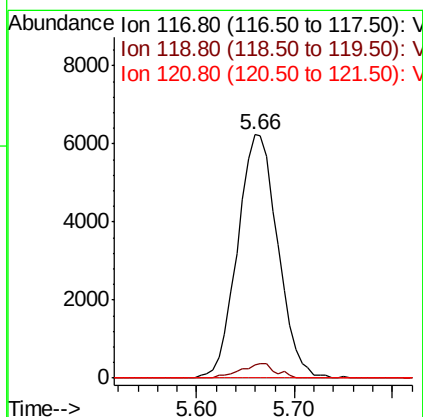
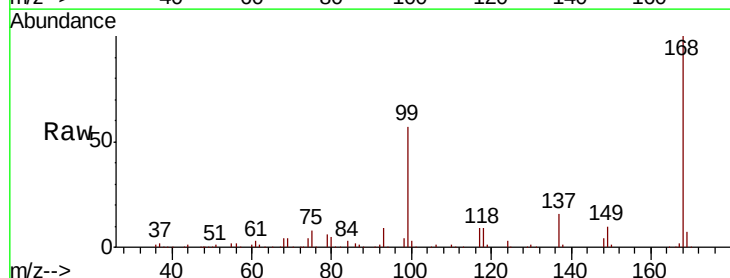
Instrument :
 MSVOA_X
 ClientSampleId :
 0239-COMP-CS-4-ELTRT-DISS

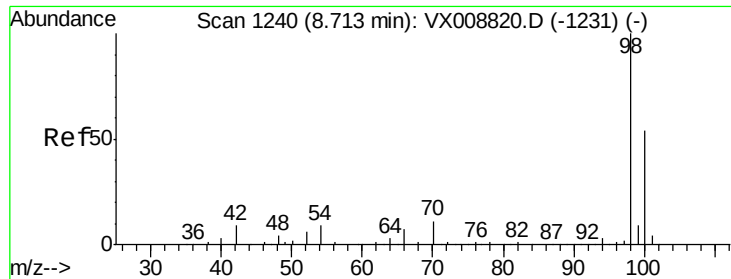
Tot Ion: 75 Resp: 15287
 Ion Ratio Lower Upper
 75 100
 110 4.2 16.4 49.2#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.465 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX008906.D
 Acq: 12 Apr 2019 23:41

Tgt Ion: 117 Resp: 17798
 Ion Ratio Lower Upper
 117 100
 119 5.6 75.0 112.6#
 121 0.0 24.3 36.5#

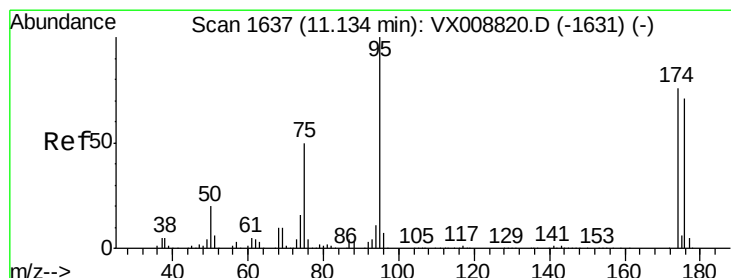
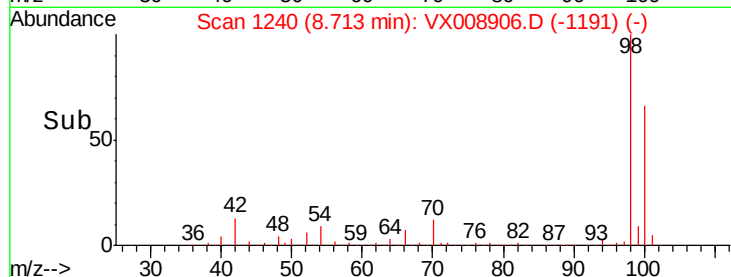
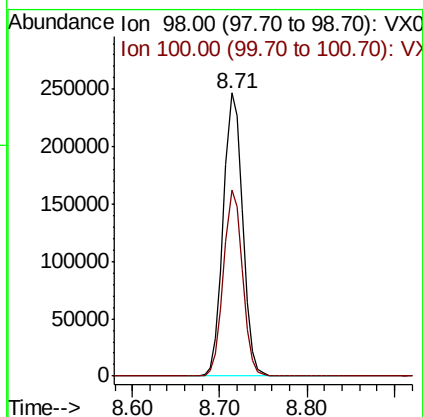
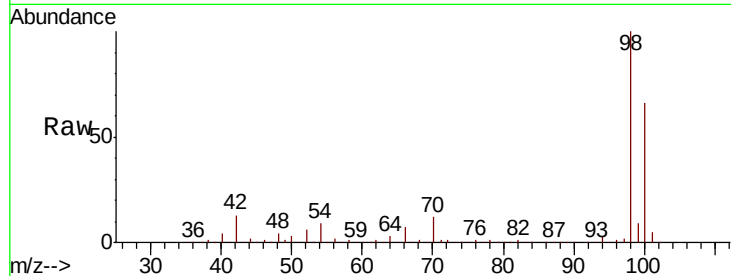




#50
Toluene-d8
Concen: 48.857 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX008906.D
Acq: 12 Apr 2019 23:41

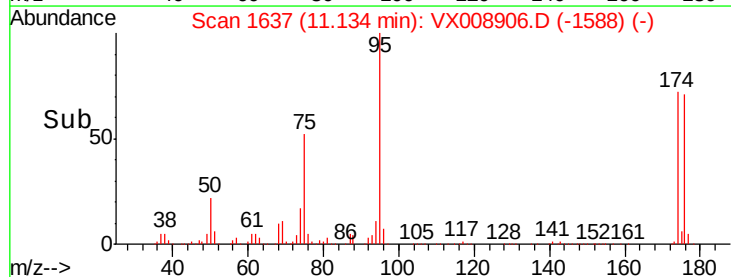
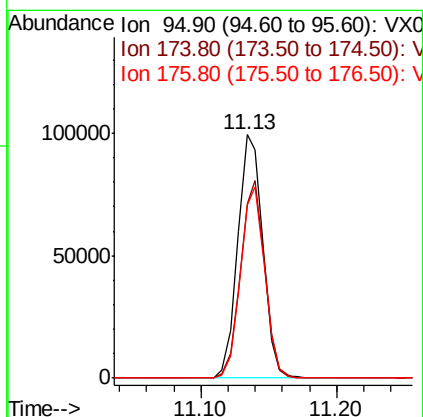
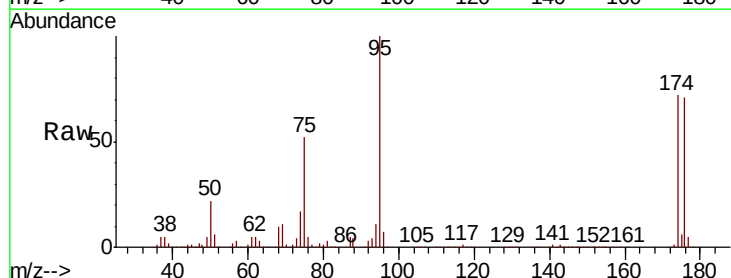
Instrument :
MSVOA_X
ClientSampleId :
0239-COMP-CS-4-ELTRT-DISS

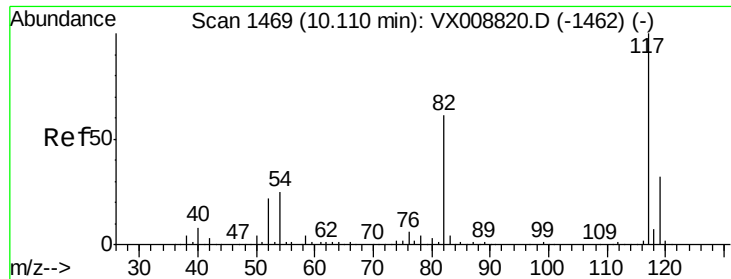
Tot Ion: 98 Resp: 378450
Ion Ratio Lower Upper
98 100
100 64.4 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 46.107 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX008906.D
Acq: 12 Apr 2019 23:41

Tgt Ion: 95 Resp: 126650
Ion Ratio Lower Upper
95 100
174 78.9 0.0 151.8
176 76.5 0.0 145.8

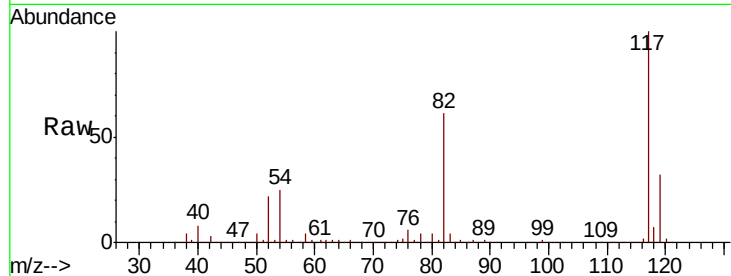




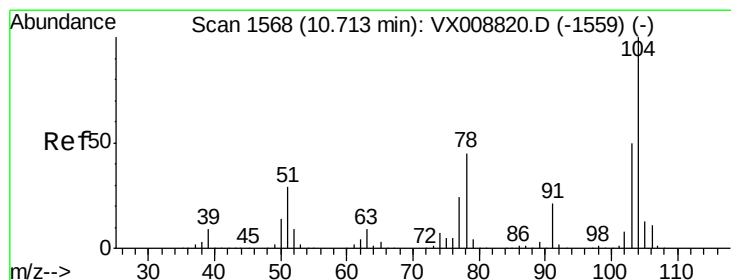
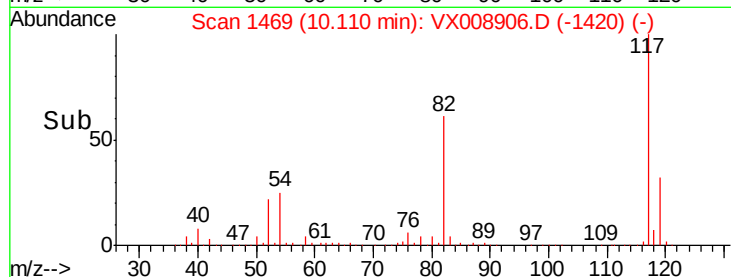
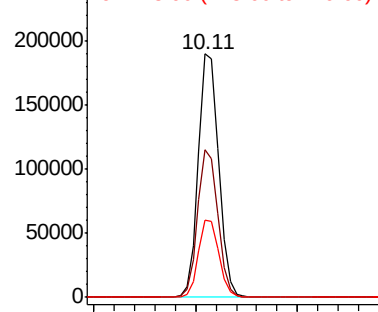
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX008906.D
Acq: 12 Apr 2019 23:41

Instrument :
MSVOA_X
ClientSampleId :
0239-COMP-CS-4-ELTRT-DISS

Tot Ion:117 Resp: 263720
Ion Ratio Lower Upper
117 100
82 60.8 49.6 74.4
119 31.6 25.0 37.4

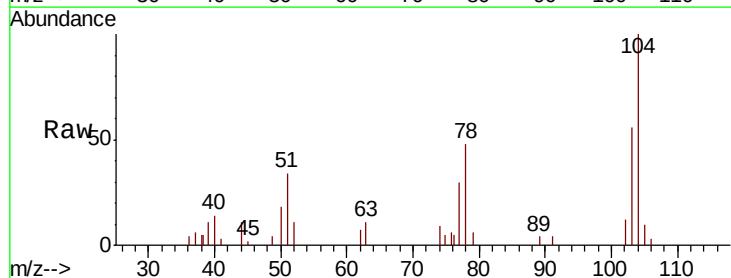


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

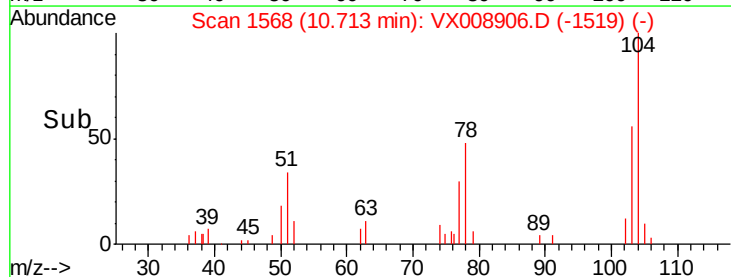
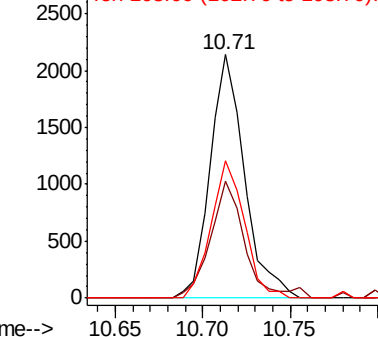


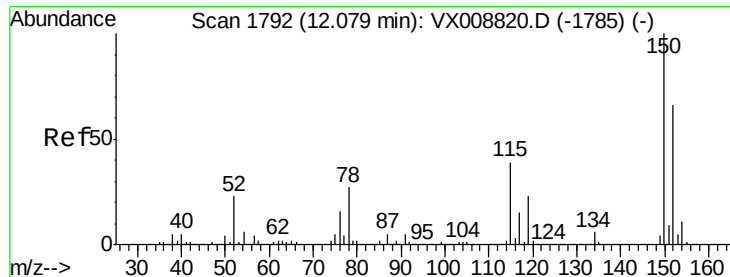
#70
Styrene
Concen: 0.446 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX008906.D
Acq: 12 Apr 2019 23:41

Tgt Ion:104 Resp: 2923
Ion Ratio Lower Upper
104 100
78 48.3 42.3 63.5
103 54.7 44.4 66.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VX0
Ion 103.00 (102.70 to 103.70): 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: VX008906.D

Acq: 12 Apr 2019 23:41

Instrument :

MSVOA_X

ClientSampleId :

0239-COMP-CS-4-ELTRT-DISS

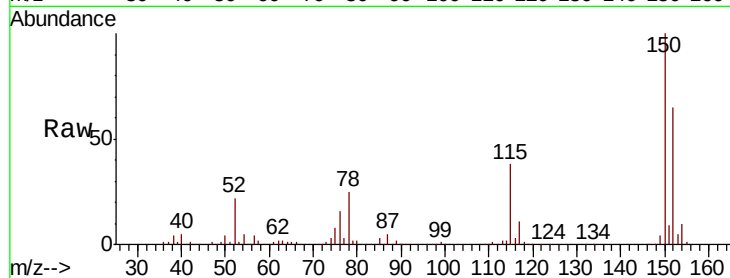
Tot Ion:152 Resp: 112322

Ion Ratio Lower Upper

152 100

115 59.8 43.5 130.5

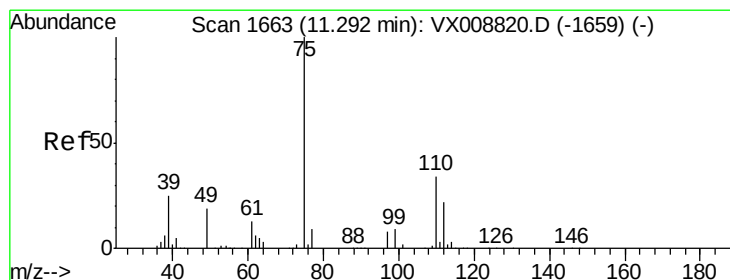
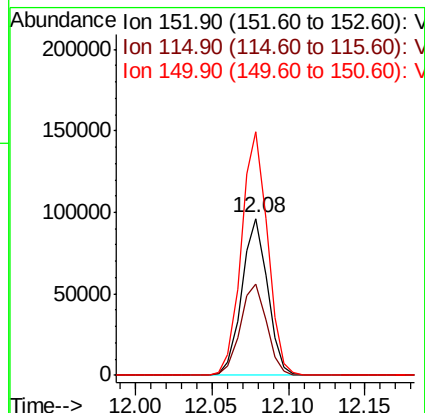
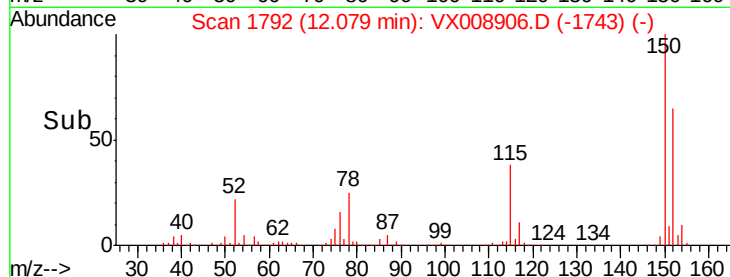
150 157.3 0.0 348.8



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: 20.965 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008906.D

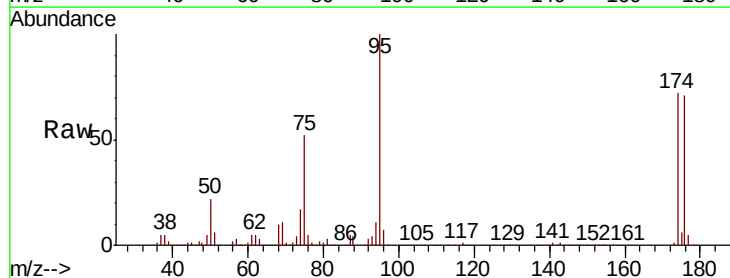
Acq: 12 Apr 2019 23:41

Tgt Ion: 75 Resp: 64688

Ion Ratio Lower Upper

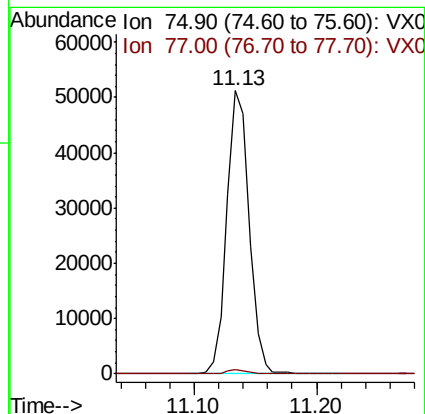
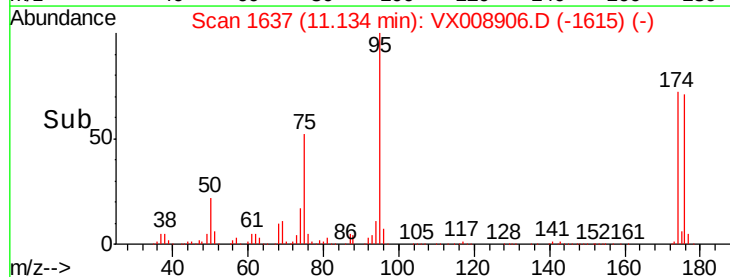
75 100

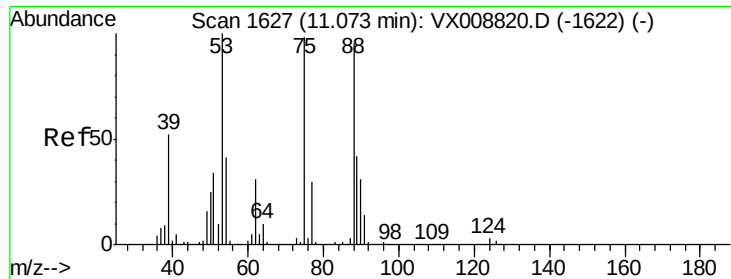
77 1.5 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

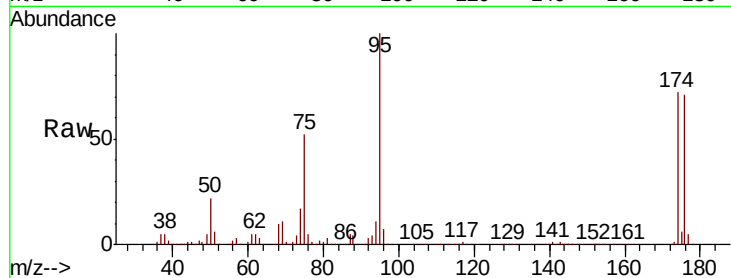




#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.790 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX008906.D
 Acq: 12 Apr 2019 23:41

Instrument :
 MSVOA_X
 ClientSampleId :
 0239-COMP-CS-4-ELTRT-DISS

Tot Ion: 75 Resp: 64688
 Ion Ratio Lower Upper
 75 100
 53 0.0 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

