

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072919\
 Data File : VX011156.D
 Acq On : 29 Jul 2019 19:19
 Operator : JC/SP
 Sample : K4026-11
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0681

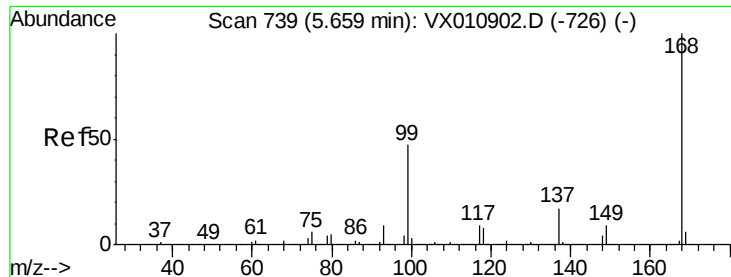
Quant Time: Jul 30 05:08:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	179511	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	291133	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	274617	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	126824	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	100620	52.69	ug/l	0.00
Spiked Amount			Recovery	=	105.38%	
35) Dibromofluoromethane	5.50	113	94091	50.92	ug/l	0.00
Spiked Amount			Recovery	=	101.84%	
50) Toluene-d8	8.71	98	354519	51.15	ug/l	0.00
Spiked Amount			Recovery	=	102.30%	
62) 4-Bromofluorobenzene	11.13	95	122941	48.26	ug/l	0.00
Spiked Amount			Recovery	=	96.52%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	1301	1.219	ug/l	91
3) Chloromethane	1.33	50	718	0.435	ug/l	89
4) Vinyl Chloride	1.41	62	21365	12.689	ug/l	95
5) Bromomethane	1.65	94	270	0.285	ug/l	85
6) Chloroethane	1.90	64	515	0.481	ug/l #	41
11) Tert butyl alcohol	3.02	59	1127	2.534	ug/l	97
16) Acetone	2.45	43	2102	2.437	ug/l	94
17) Carbon Disulfide	2.57	76	968	0.236	ug/l #	69
21) trans-1,2-Dichloroethene	3.17	96	1381	0.814	ug/l	94
27) cis-1,2-Dichloroethene	4.60	96	10949	5.576	ug/l	91
29) Tetrahydrofuran	5.12	42	244	0.311	ug/l #	36
36) 1,1-Dichloropropene	5.65	75	12113	5.065	ug/l #	49
38) Carbon Tetrachloride	5.66	117	16552	6.642	ug/l #	19
44) Trichloroethene	7.22	130	1787	0.824	ug/l	60
49) 1,4-Dioxane	7.76	88	25	0.456	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	62291	27.218	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	62291	67.449	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX011156.D

Acq: 29 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampled :

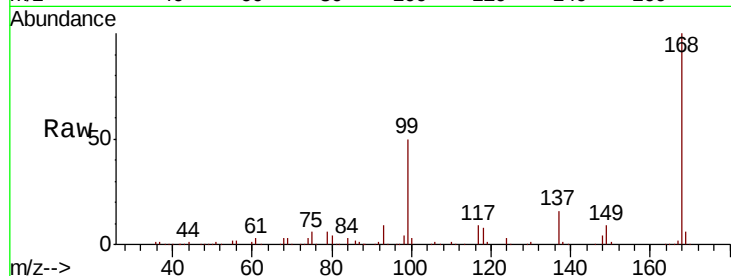
Z3-0681

Tot Ion:168 Resp: 179511

Ion Ratio Lower Upper

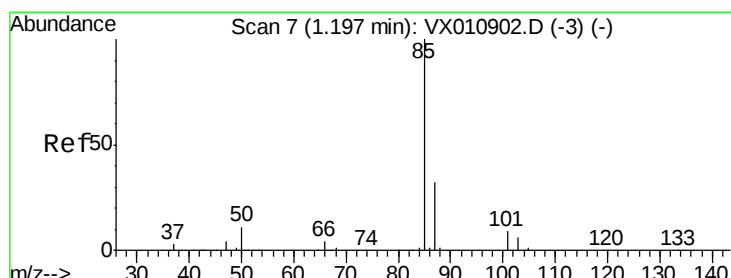
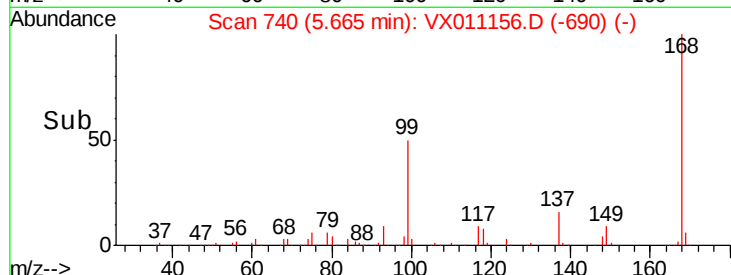
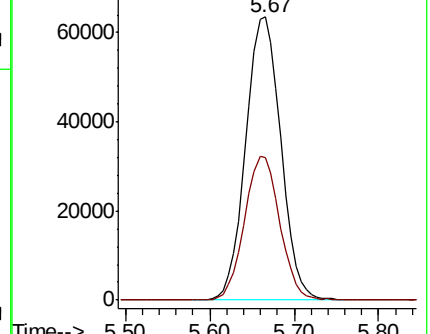
168 100

99 50.2 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 1.219 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX011156.D

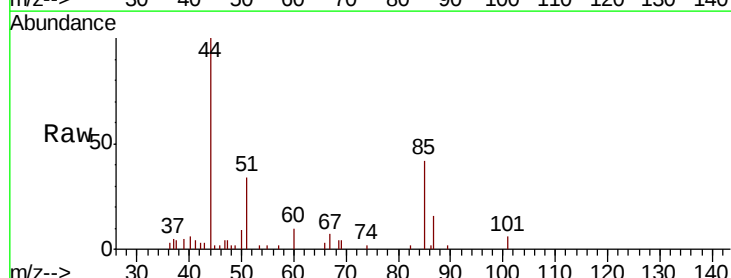
Acq: 29 Jul 2019 19:19

Tgt Ion: 85 Resp: 1301

Ion Ratio Lower Upper

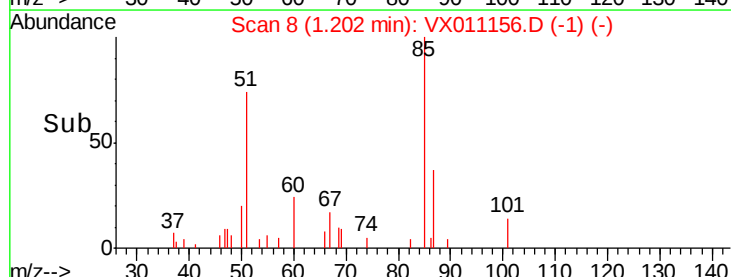
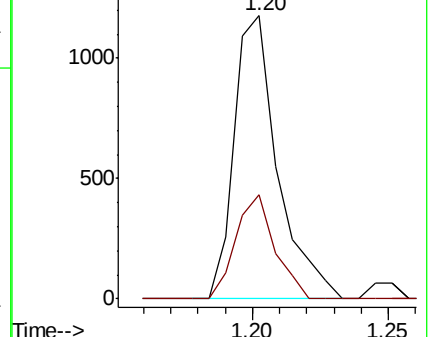
85 100

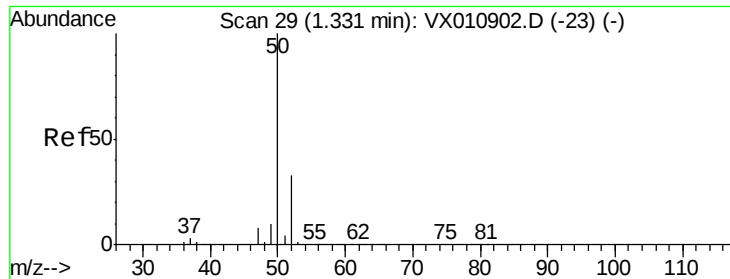
87 36.8 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 0.435 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX011156.D

Acq: 29 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

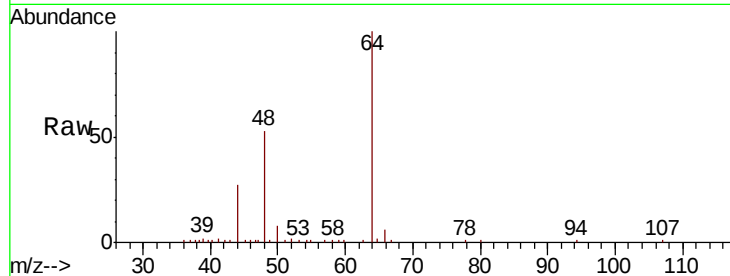
Z3-0681

Tot Ion: 50 Resp: 718

Ion Ratio Lower Upper

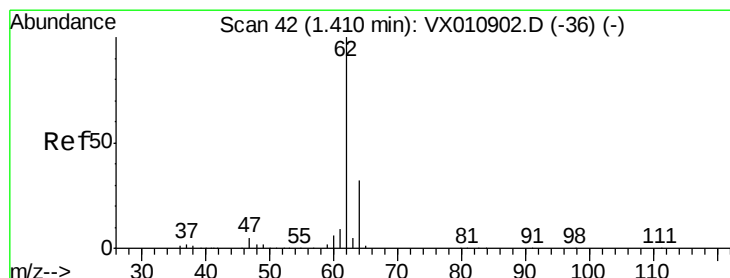
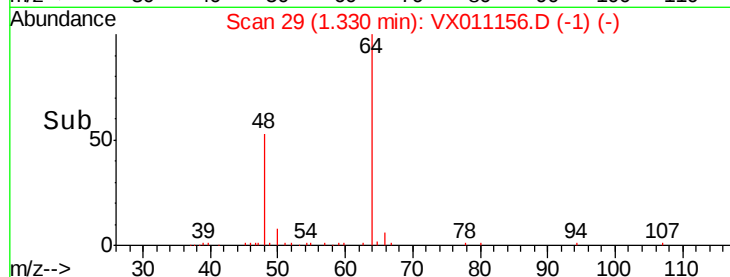
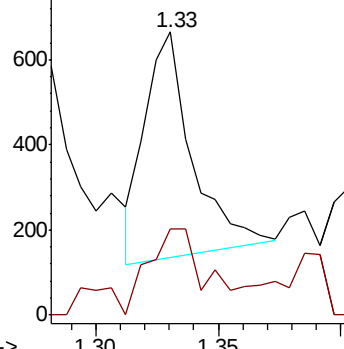
50 100

52 26.9 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 12.689 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX011156.D

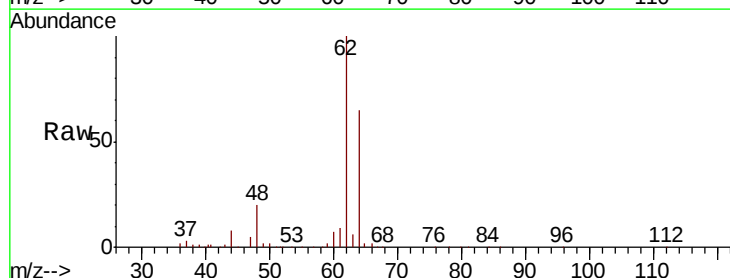
Acq: 29 Jul 2019 19:19

Tgt Ion: 62 Resp: 21365

Ion Ratio Lower Upper

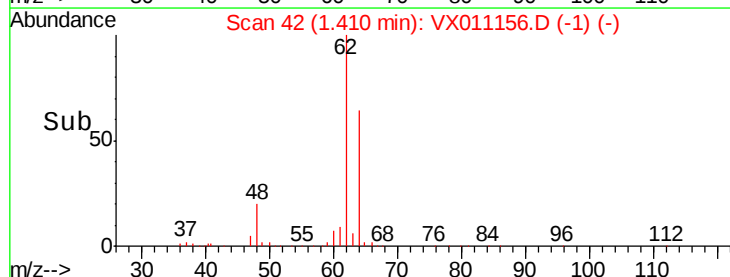
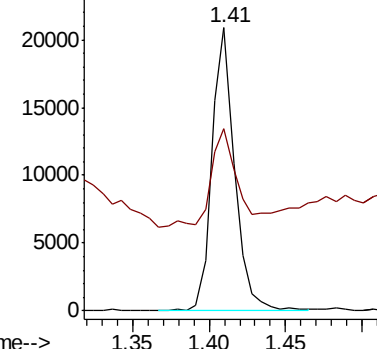
62 100

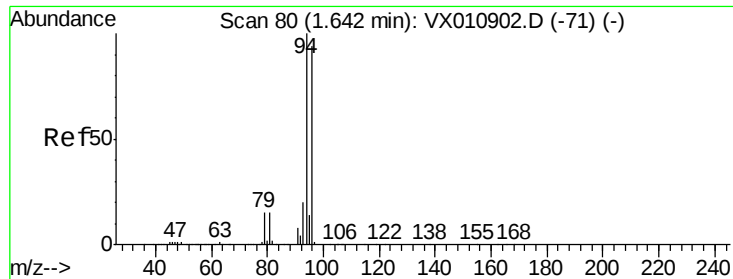
64 34.8 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.285 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX011156.D

Acq: 29 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

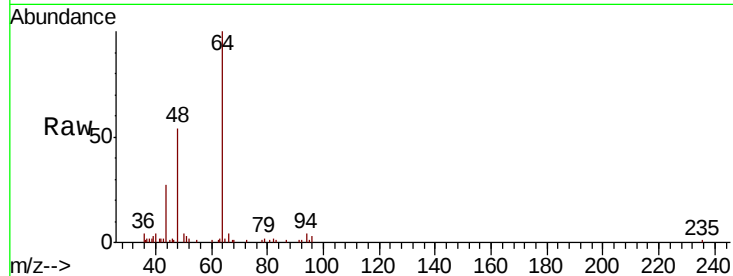
Z3-0681

Tot Ion: 94 Resp: 270

Ion Ratio Lower Upper

94 100

96 80.2 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

1.66

1.67

1.68

1.69

1.70

1.71

1.72

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1.80

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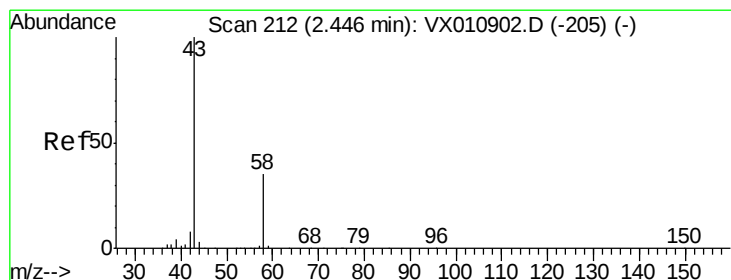
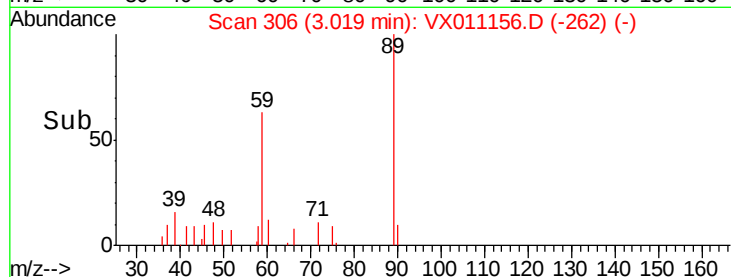
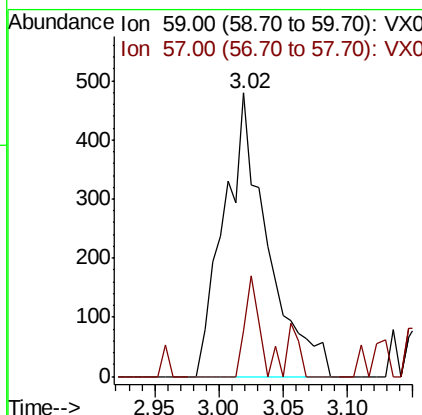
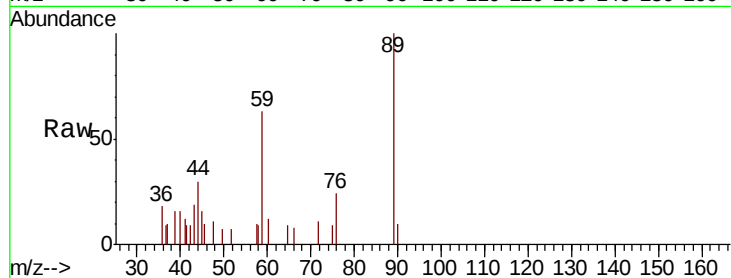
4.30



#11
Tert butyl alcohol
Concen: 2.534 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.03 min
Lab File: VX011156.D
Acq: 29 Jul 2019 19:19

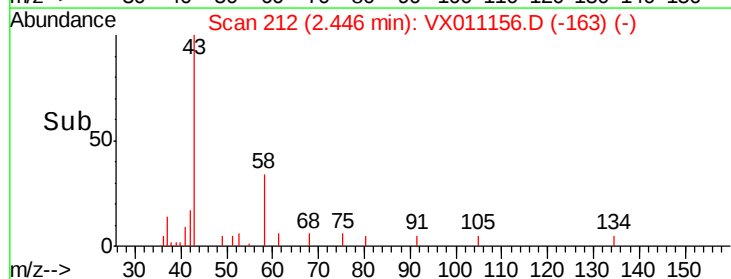
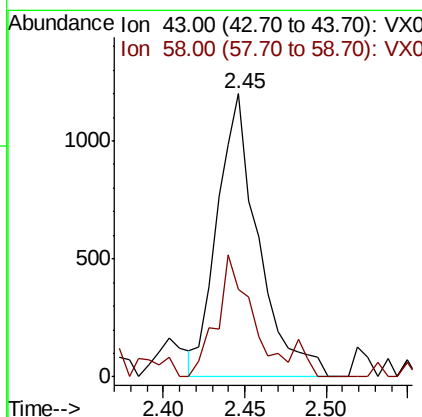
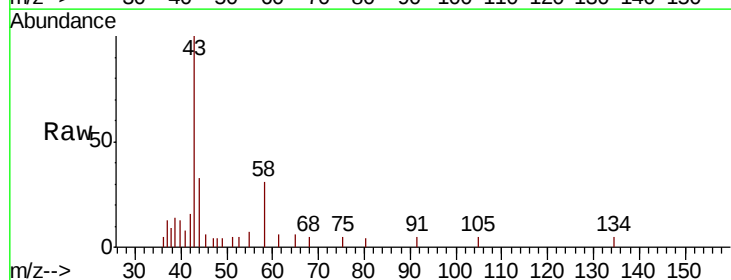
Instrument :
MSVOA_X
ClientSampled :
Z3-0681

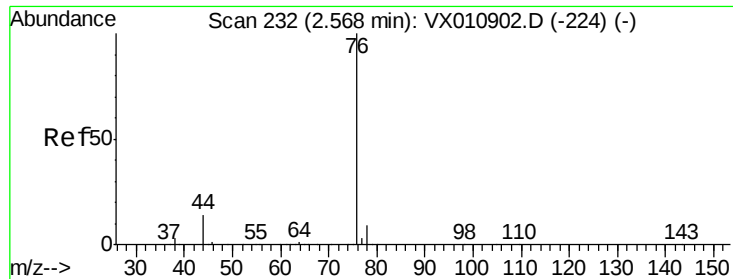
Tot Ion: 59 Resp: 1127
Ion Ratio Lower Upper
59 100
57 11.0 7.9 11.9



#16
Acetone
Concen: 2.437 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX011156.D
Acq: 29 Jul 2019 19:19

Tgt Ion: 43 Resp: 2102
Ion Ratio Lower Upper
43 100
58 30.9 27.7 41.5

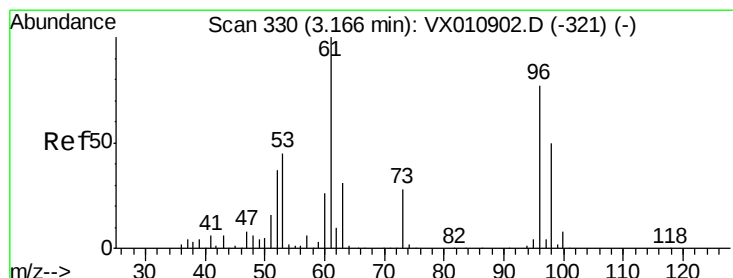
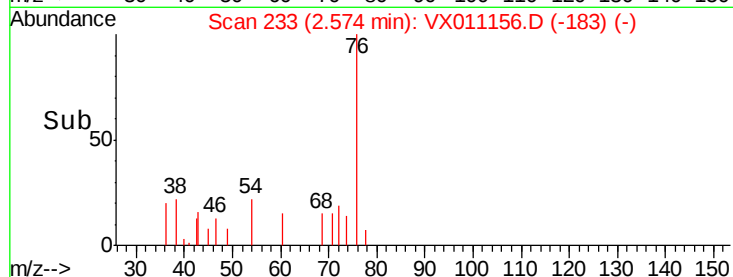
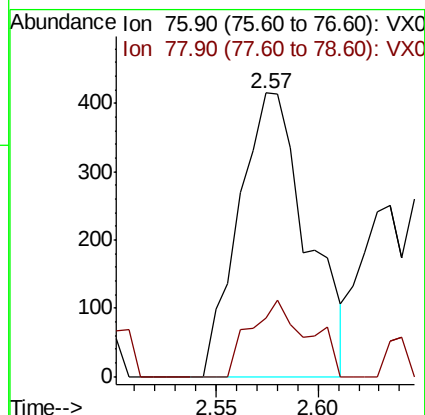
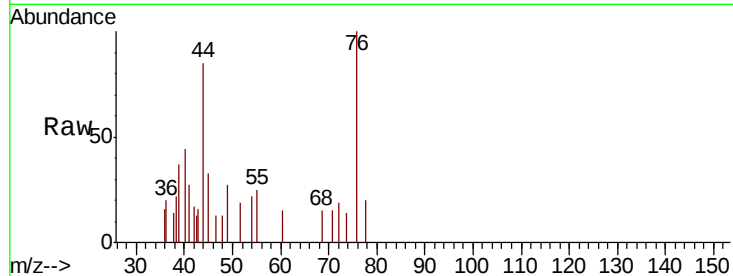




#17
Carbon Disulfide
Concen: 0.236 ug/l
RT: 2.57 min Scan# 233
Delta R.T. 0.01 min
Lab File: VX011156.D
Acq: 29 Jul 2019 19:19

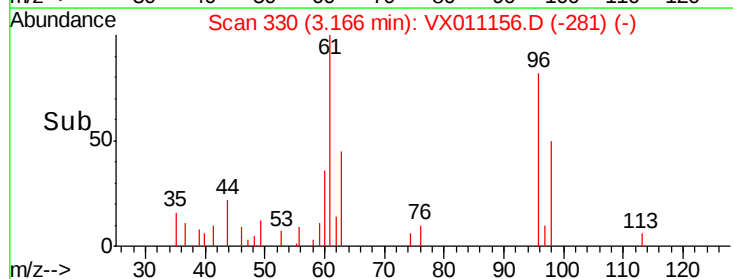
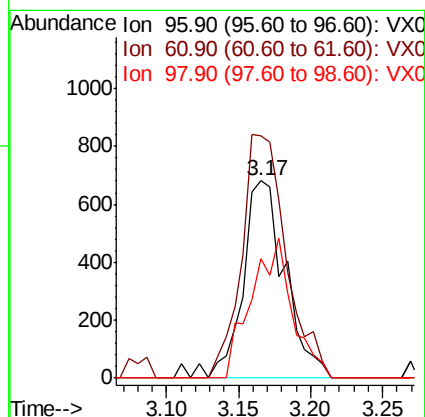
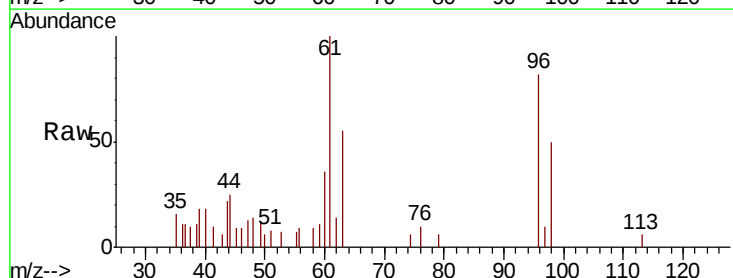
Instrument :
MSVOA_X
ClientSampleId :
Z3-0681

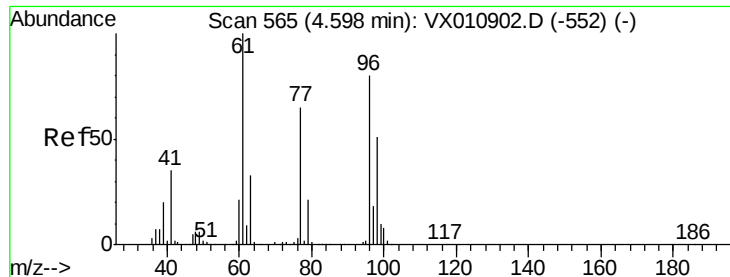
Tot Ion: 76 Resp: 968
Ion Ratio Lower Upper
76 100
78 20.5 7.4 11.0#



#21
trans-1,2-Dichloroethene
Concen: 0.814 ug/l
RT: 3.17 min Scan# 330
Delta R.T. -0.00 min
Lab File: VX011156.D
Acq: 29 Jul 2019 19:19

Tgt Ion: 96 Resp: 1381
Ion Ratio Lower Upper
96 100
61 122.4 104.2 156.2
98 60.7 52.2 78.4



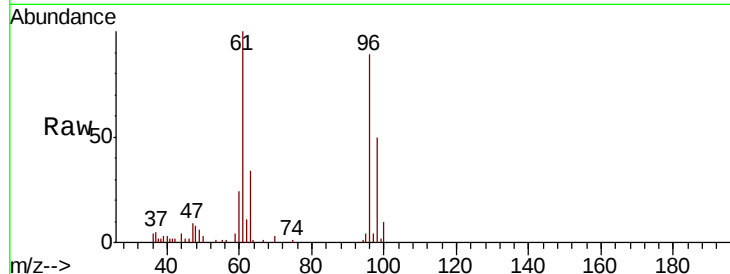


#27

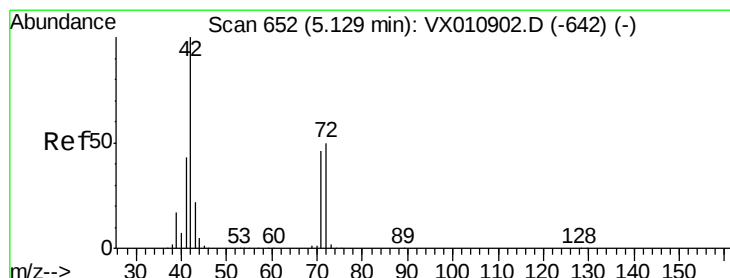
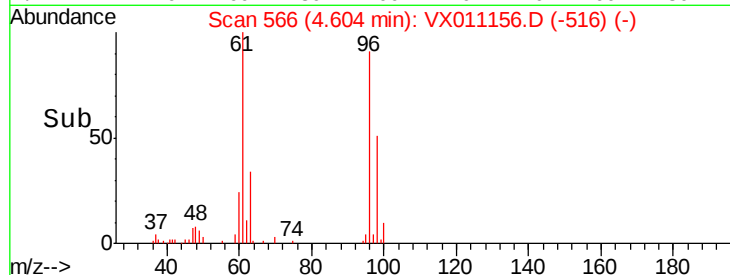
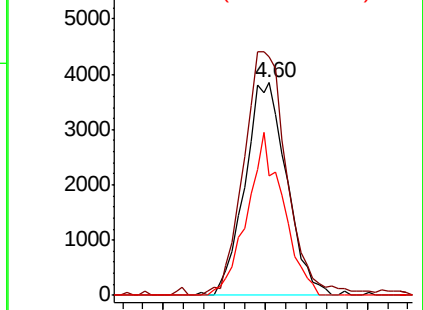
cis-1,2-Dichloroethene
 Concen: 5.576 ug/l
 RT: 4.60 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VX011156.D
 Acq: 29 Jul 2019 19:19

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-0681

Tot Ion	Ratio	Lower	Upper
96	100		
61	119.0	0.0	269.0
98	65.8	0.0	131.4



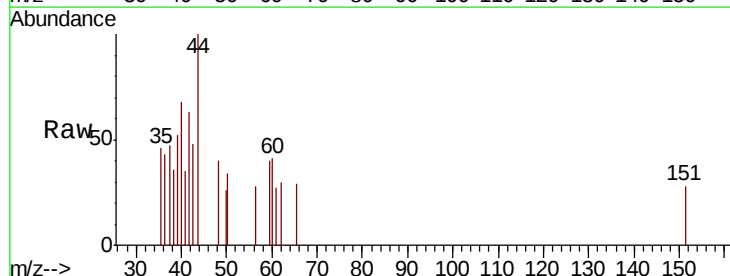
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



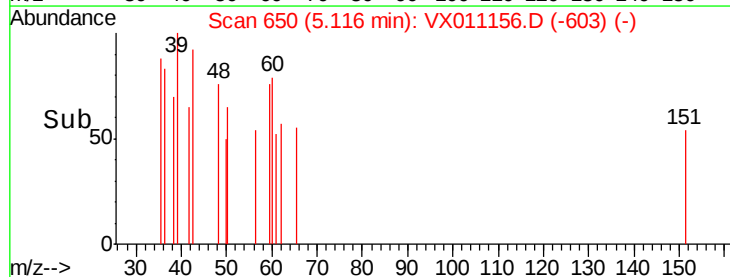
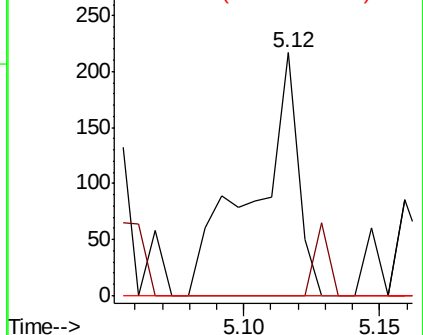
#29

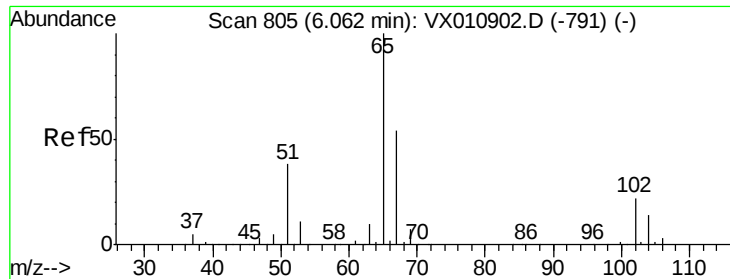
Tetrahydrofuran
 Concen: 0.311 ug/l
 RT: 5.12 min Scan# 650
 Delta R.T. -0.01 min
 Lab File: VX011156.D
 Acq: 29 Jul 2019 19:19

Tgt Ion	Ratio	Lower	Upper
42	100		
72	9.8	39.8	59.8#
71	0.0	37.0	55.4#



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: 52.688 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011156.D

Acq: 29 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

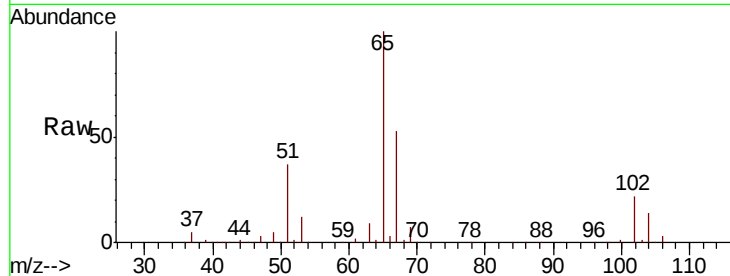
Z3-0681

Tot Ion: 65 Resp: 100620

Ion Ratio Lower Upper

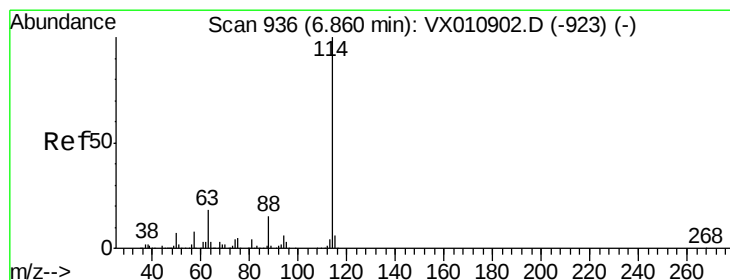
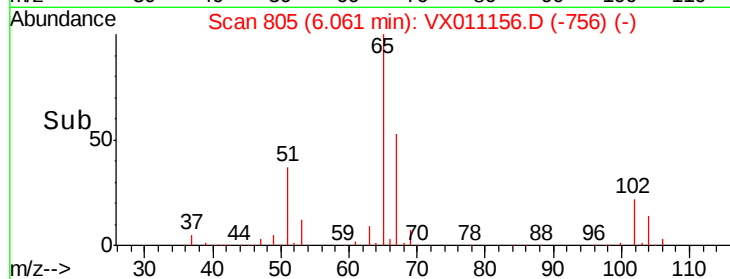
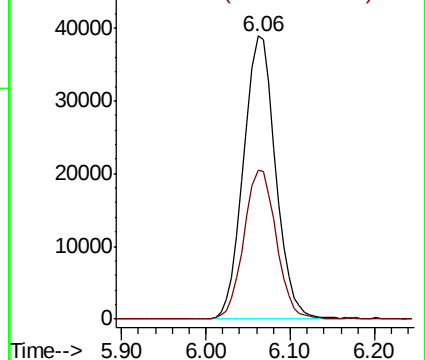
65 100

67 53.1 0.0 107.8



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: VX011156.D

Acq: 29 Jul 2019 19:19

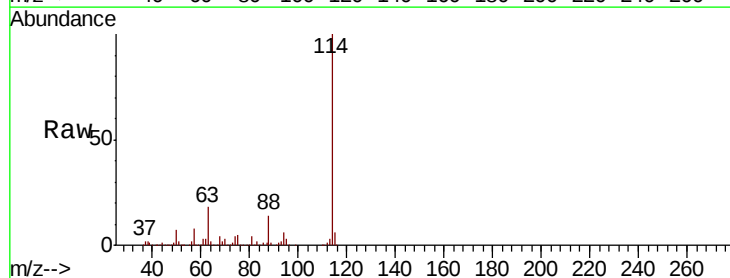
Tgt Ion: 114 Resp: 291133

Ion Ratio Lower Upper

114 100

63 17.5 0.0 35.6

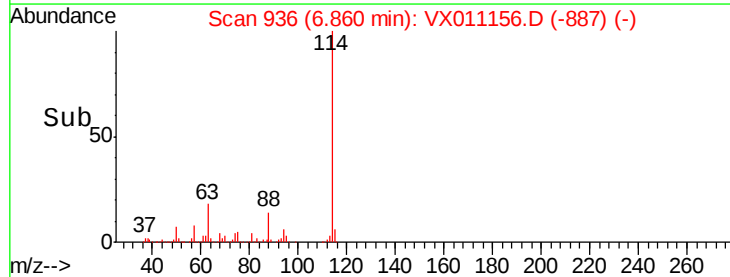
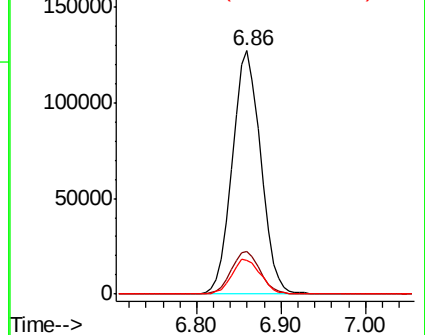
88 14.1 0.0 29.8

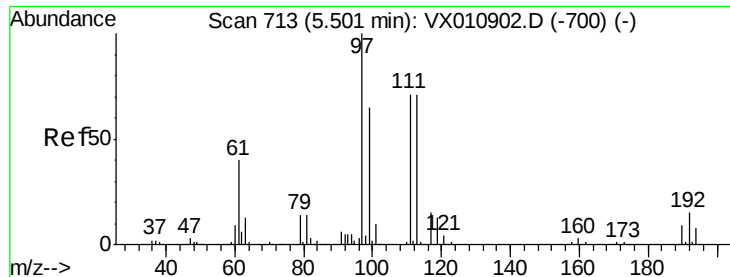


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.918 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011156.D

Acq: 29 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

Z3-0681

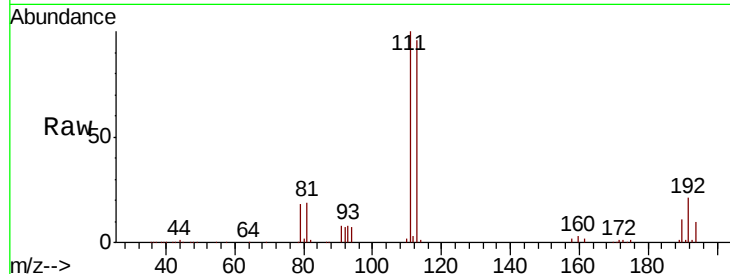
Tot Ion:113 Resp: 94091

Ion Ratio Lower Upper

113 100

111 100.8 82.3 123.5

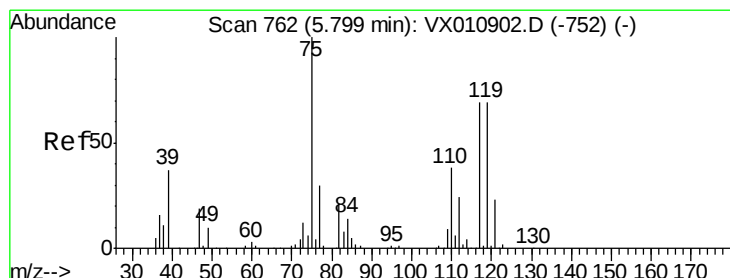
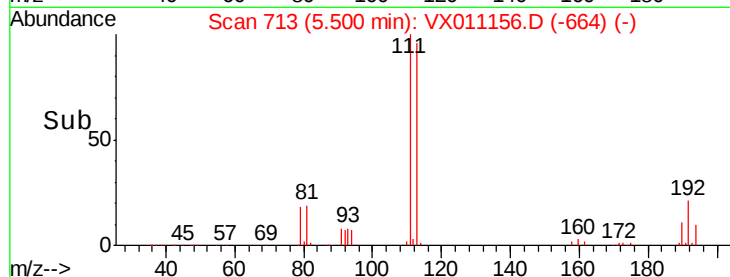
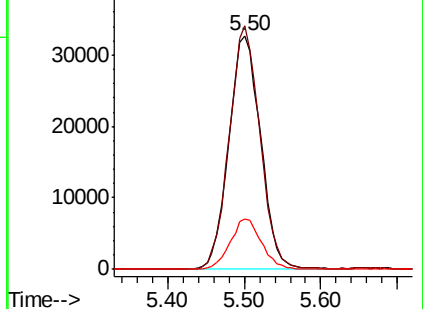
192 21.2 17.4 26.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.065 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX011156.D

Acq: 29 Jul 2019 19:19

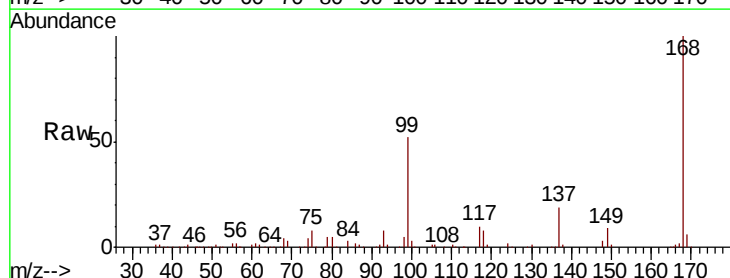
Tgt Ion: 75 Resp: 12113

Ion Ratio Lower Upper

75 100

110 11.6 19.9 59.7#

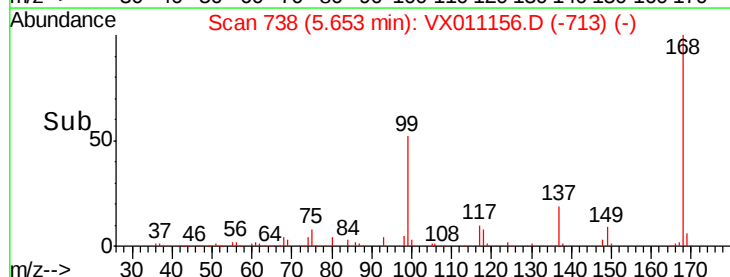
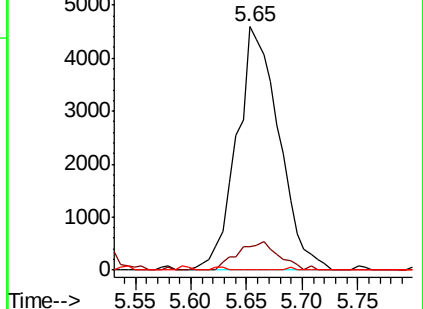
77 0.0 25.0 37.4#

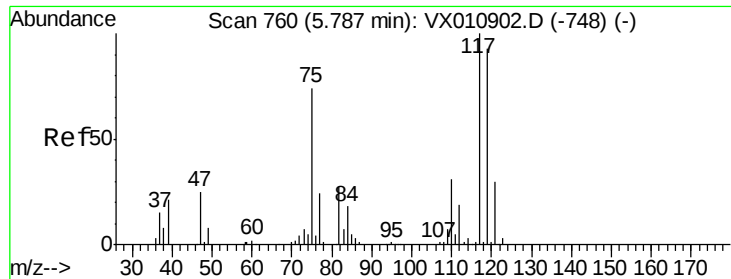


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.642 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011156.D

Acq: 29 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampled :

Z3-0681

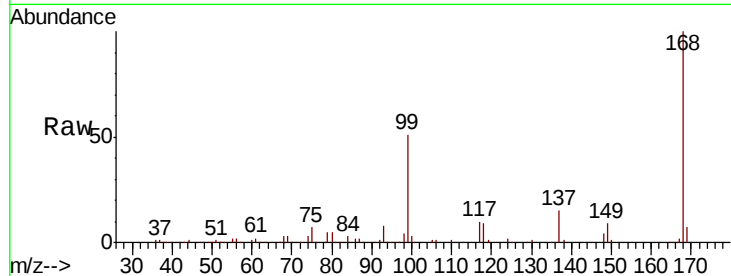
Tot Ion:117 Resp: 16552

Ion Ratio Lower Upper

117 100

119 6.6 74.2 111.2#

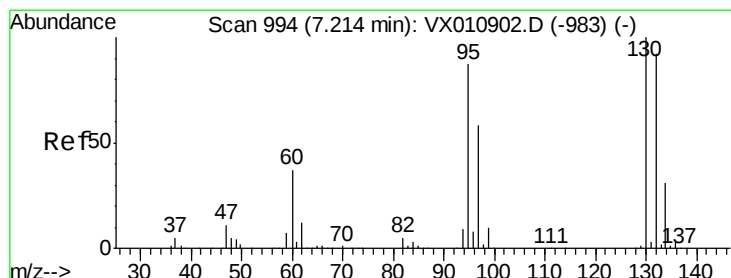
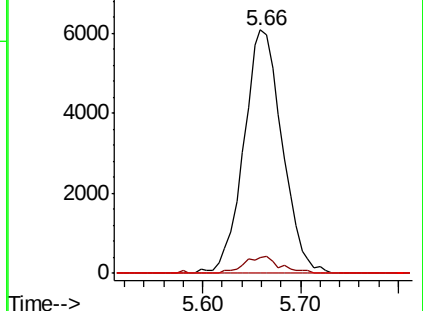
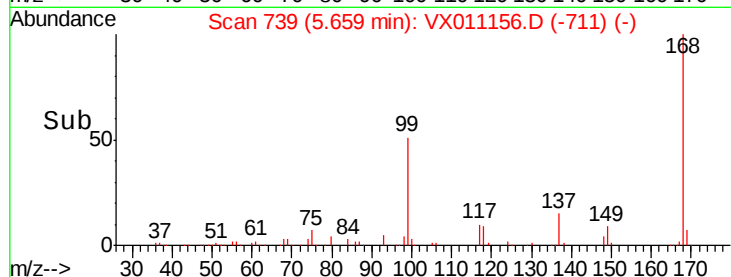
121 0.0 24.2 36.2#



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



#44

Trichloroethene

Concen: 0.824 ug/l

RT: 7.22 min Scan# 995

Delta R.T. 0.01 min

Lab File: VX011156.D

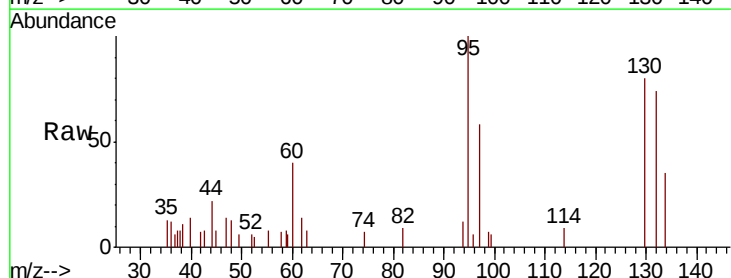
Acq: 29 Jul 2019 19:19

Tgt Ion:130 Resp: 1787

Ion Ratio Lower Upper

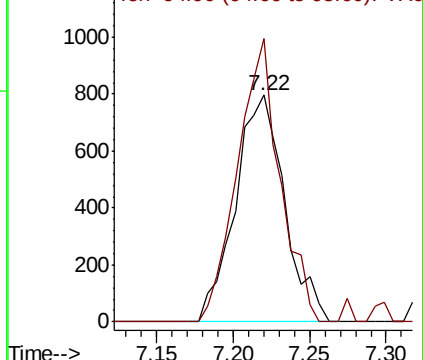
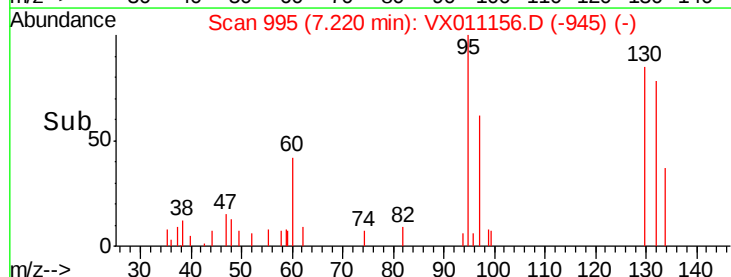
130 100

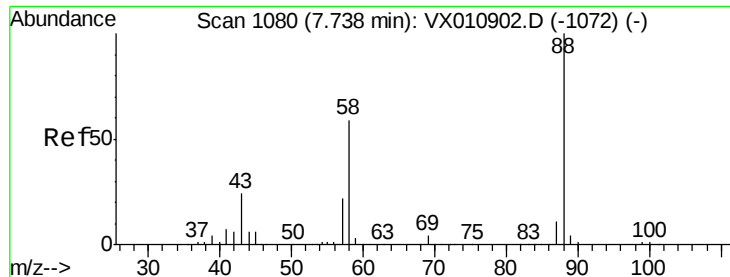
95 124.9 0.0 174.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

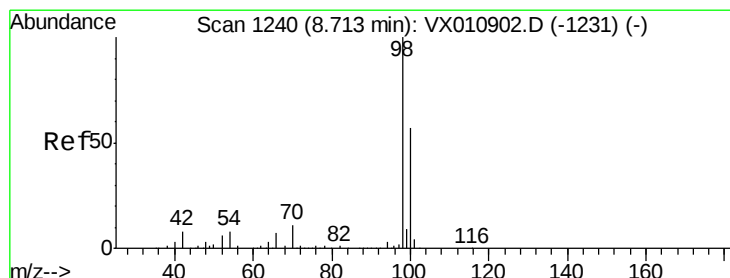
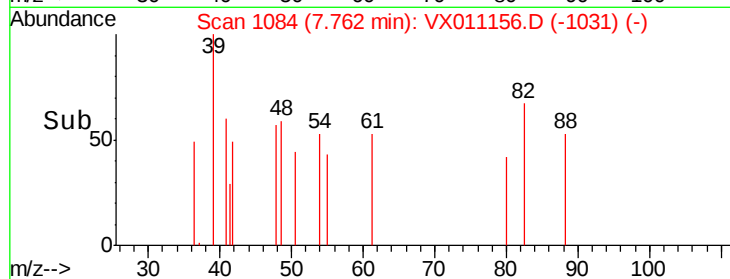
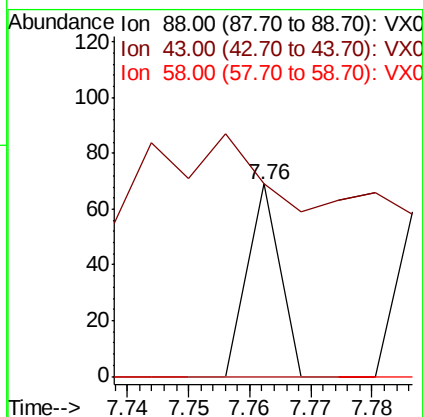
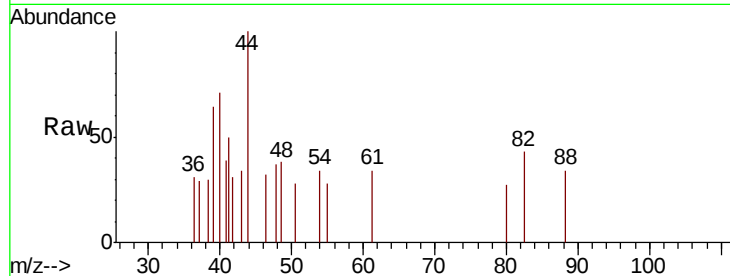




#49
1,4-Dioxane
Concen: 0.456 ug/l
RT: 7.76 min Scan# 1084
Delta R.T. 0.02 min
Lab File: VX011156.D
Acq: 29 Jul 2019 19:19

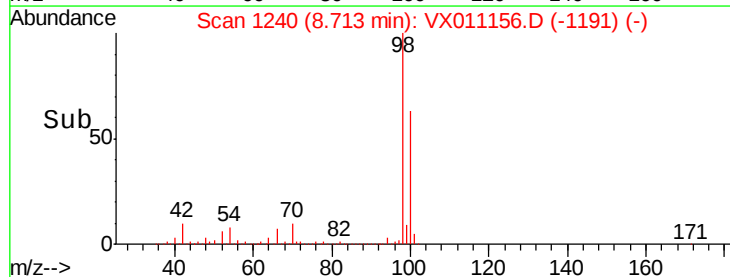
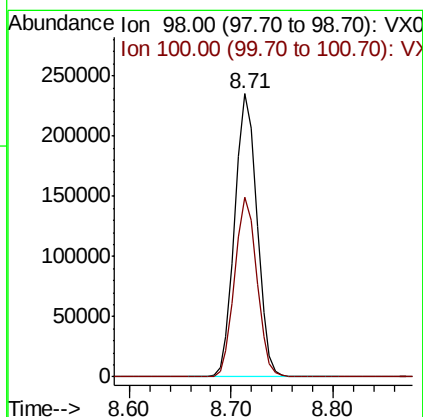
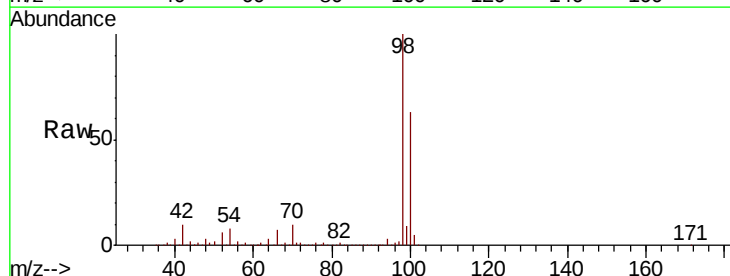
Instrument :
MSVOA_X
ClientSampled :
Z3-0681

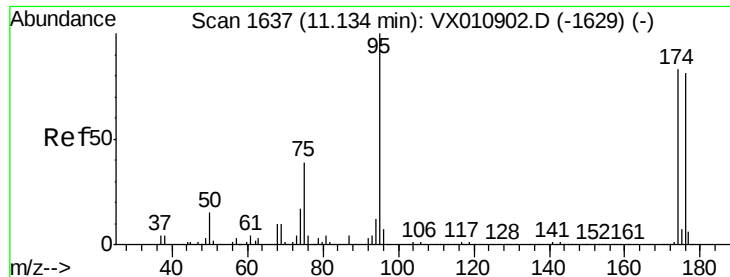
Tot Ion: 88 Resp: 25
Ion Ratio Lower Upper
88 100
43 712.0 22.9 34.3#
58 0.0 49.8 74.8#



#50
Toluene-d8
Concen: 51.152 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011156.D
Acq: 29 Jul 2019 19:19

Tgt Ion: 98 Resp: 354519
Ion Ratio Lower Upper
98 100
100 63.3 50.6 75.8





#62

4-Bromofluorobenzene

Concen: 48.259 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011156.D

Acq: 29 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampled :

Z3-0681

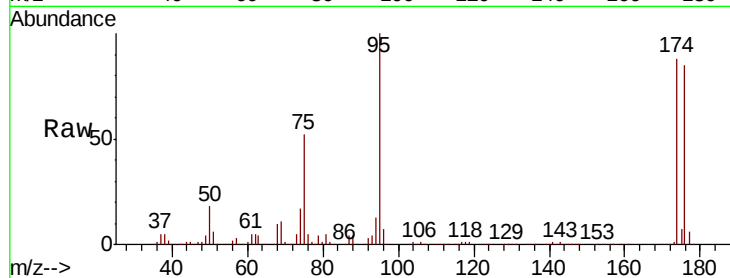
Tot Ion: 95 Resp: 122941

Ion Ratio Lower Upper

95 100

174 91.7 0.0 180.6

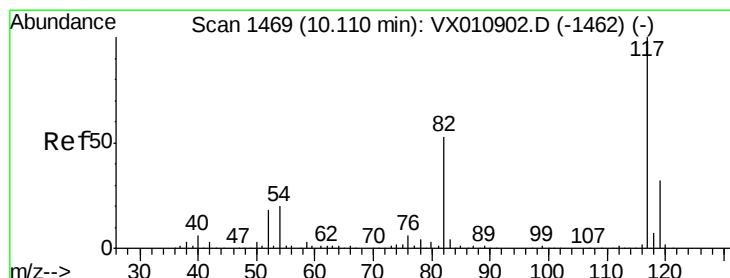
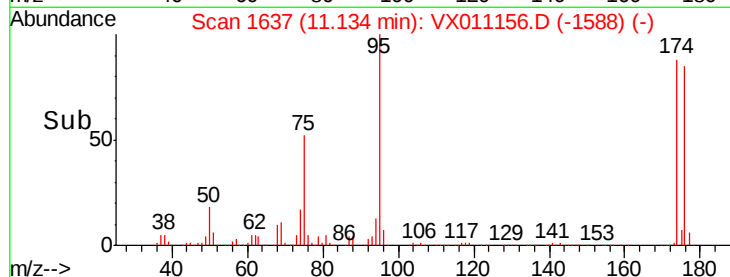
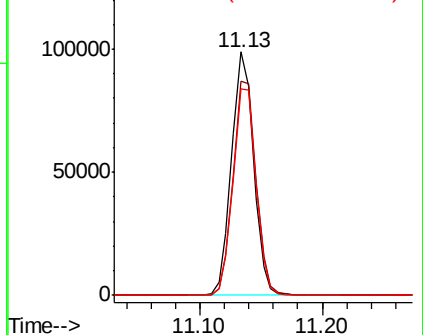
176 88.7 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX011156.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX011156.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX011156.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011156.D

Acq: 29 Jul 2019 19:19

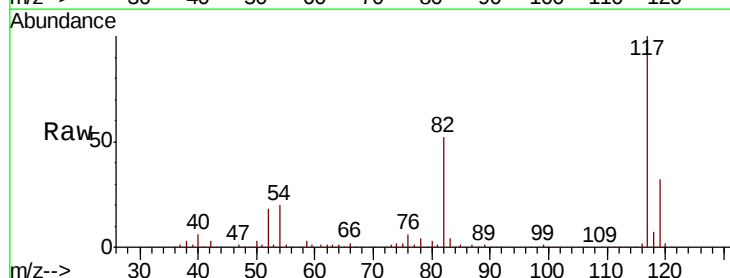
Tgt Ion: 117 Resp: 274617

Ion Ratio Lower Upper

117 100

82 51.8 42.6 63.8

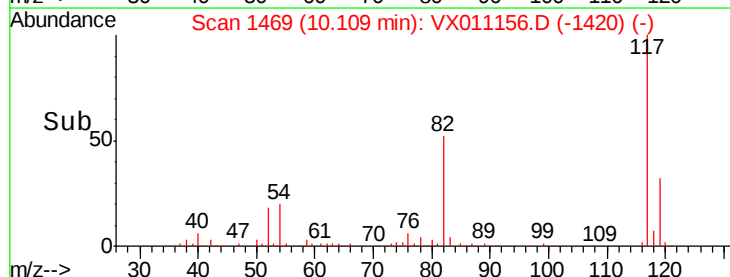
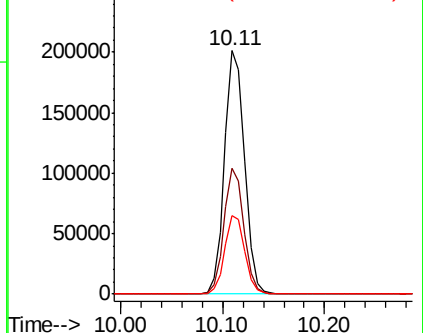
119 32.1 25.9 38.9

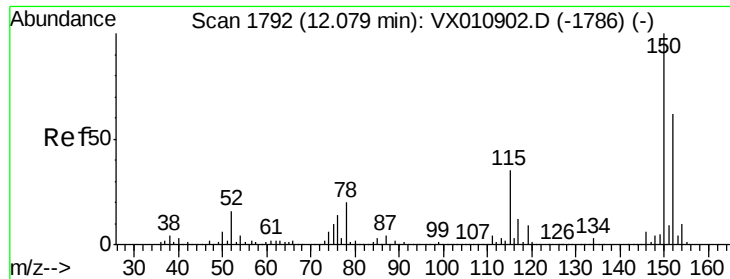


Abundance Ion 116.90 (116.60 to 117.60): VX011156.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX011156.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011156.D (-1420) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX011156.D

Acq: 29 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

Z3-0681

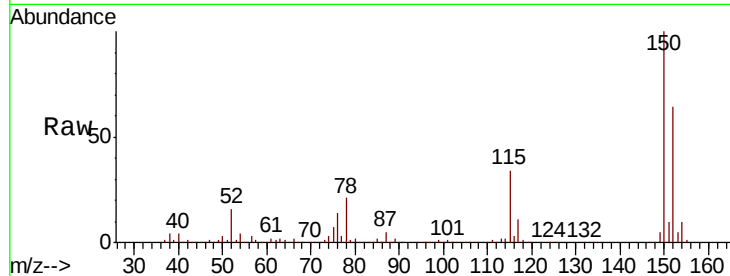
Tot Ion:152 Resp: 126824

Ion Ratio Lower Upper

152 100

115 56.3 39.7 119.1

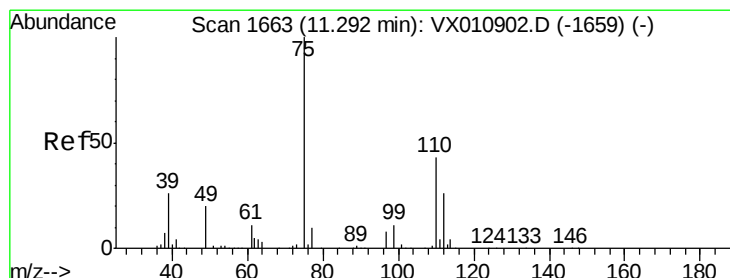
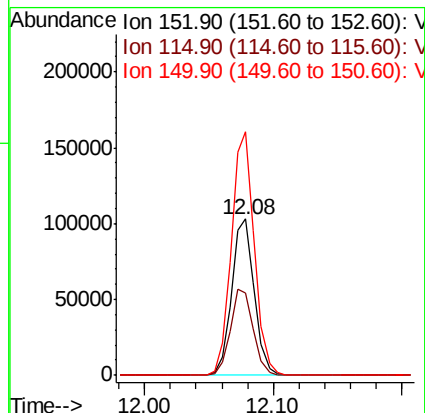
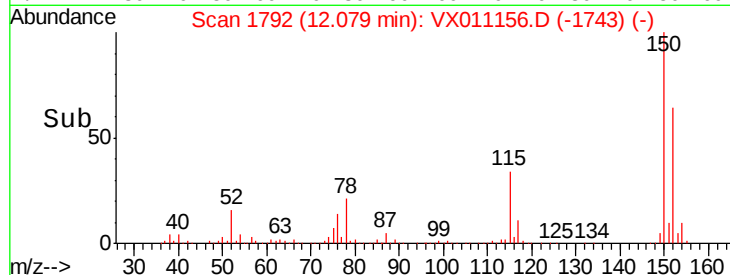
150 157.6 0.0 345.6



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: 27.218 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011156.D

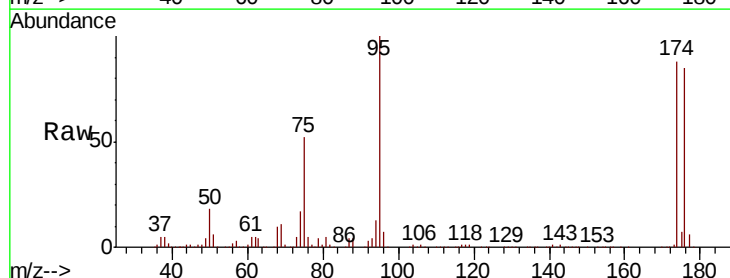
Acq: 29 Jul 2019 19:19

Tgt Ion: 75 Resp: 62291

Ion Ratio Lower Upper

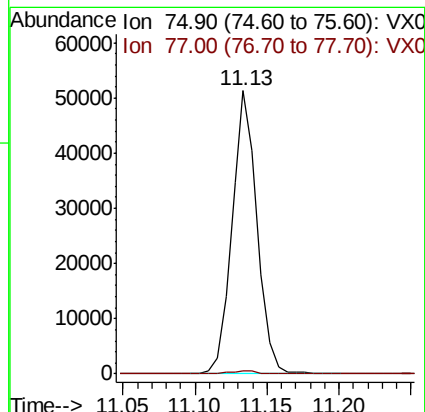
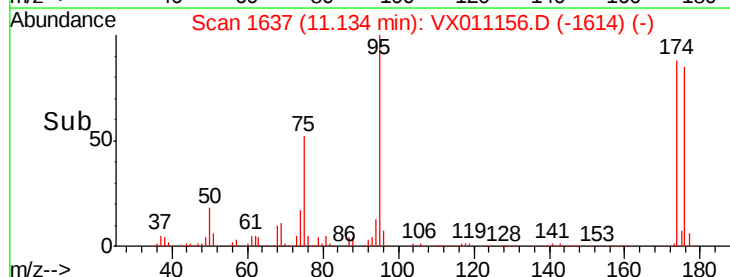
75 100

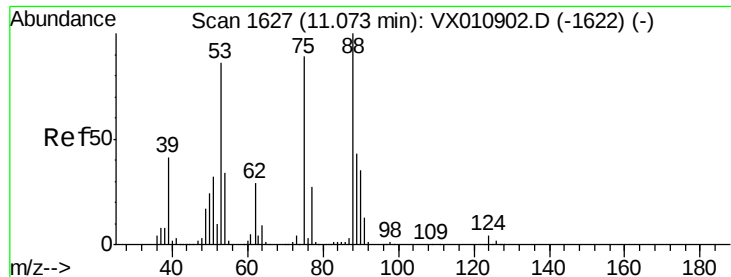
77 1.1 21.3 64.0#



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: 67.449 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011156.D

Acq: 29 Jul 2019 19:19

Instrument :

MSVOA_X

ClientSampleId :

Z3-0681

Tot Ion: 75 Resp: 62291

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.0 38.5 57.7#

