

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072219\
 Data File : VX011020.D
 Acq On : 22 Jul 2019 11:07
 Operator : JC/SP
 Sample : VX0722WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0722WBL01

Quant Time: Jul 23 03:41:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 20 04:05:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	216913	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	341801	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	310418	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	138212	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	118261	51.25	ug/l	0.00
Spiked Amount			Recovery	=	102.50%	
35) Dibromofluoromethane	5.49	113	109390	50.42	ug/l	0.00
Spiked Amount			Recovery	=	100.84%	
50) Toluene-d8	8.71	98	407918	50.13	ug/l	0.00
Spiked Amount			Recovery	=	100.26%	
62) 4-Bromofluorobenzene	11.13	95	141074	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	

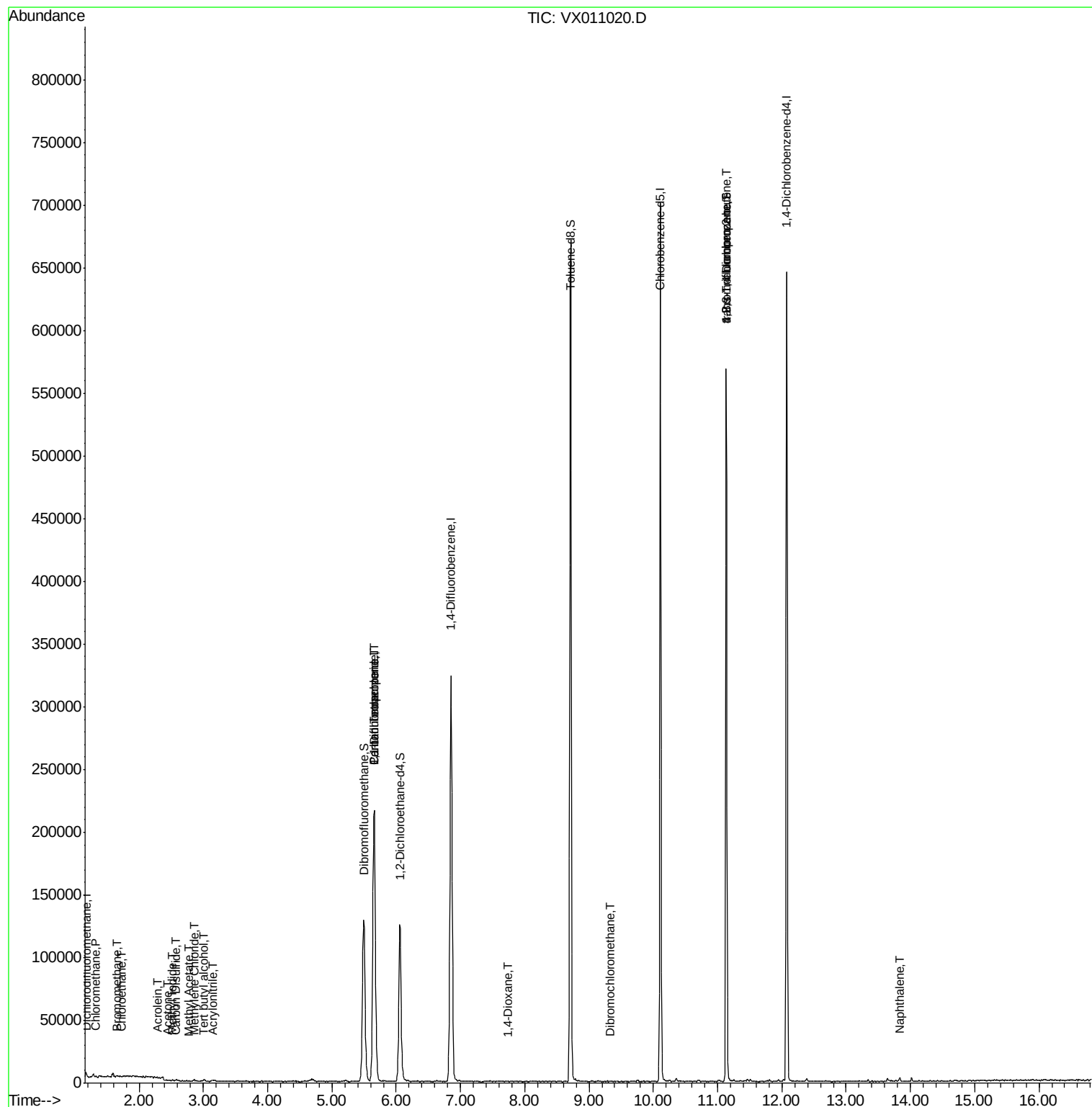
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	68	0.575	ug/l #	43
3) Chloromethane	1.33	50	619	0.310	ug/l #	71
5) Bromomethane	1.65	94	736	0.642	ug/l #	77
6) Chloroethane	1.73	64	1118	0.865	ug/l #	79
10) Methyl Iodide	2.52	142	804	0.312	ug/l #	81
11) Tert butyl alcohol	3.01	59	906	1.686	ug/l #	80
13) Acrolein	2.29	56	513	1.652	ug/l #	70
15) Acrylonitrile	3.15	53	562	0.518	ug/l #	53
16) Acetone	2.44	43	240	0.230	ug/l	97
17) Carbon Disulfide	2.57	76	1394	0.281	ug/l #	82
18) Methyl Acetate	2.78	43	679	0.286	ug/l #	84
20) Methylene Chloride	2.85	84	468	0.212	ug/l	97
36) 1,1-Dichloropropene	5.65	75	14681	5.229	ug/l #	48
38) Carbon Tetrachloride	5.65	117	20397	6.972	ug/l #	18
49) 1,4-Dioxane	7.73	88	47	0.730	ug/l #	1
60) Dibromochloromethane	9.33	129	40	2.542	ug/l #	11
76) 1,2,3-Trichloropropane	11.13	75	71211	28.552	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	71211	70.559	ug/l #	11
95) Naphthalene	13.83	128	1838	0.207	ug/l	99

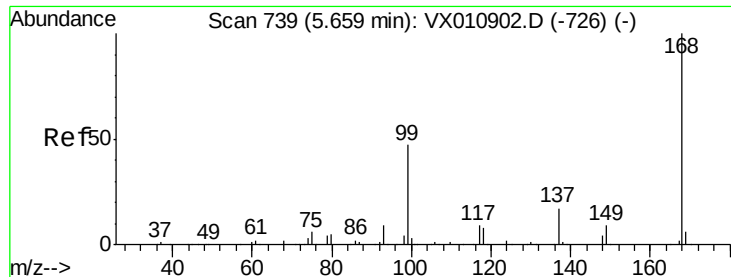
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jul 20 04:05:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011020.D

Acq: 22 Jul 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

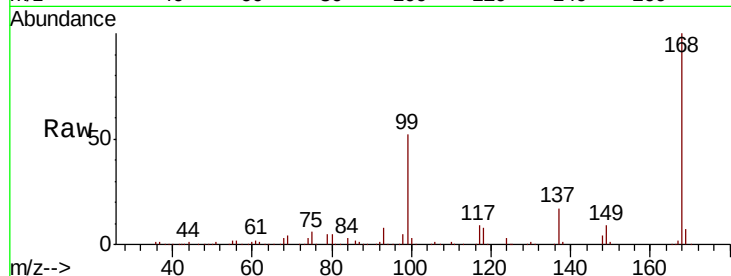
VX0722WBL01

Tot Ion:168 Resp: 216913

Ion Ratio Lower Upper

168 100

99 51.5 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): VX011020.D (-690) (-)

Ion 98.90 (98.60 to 99.60): VX011020.D (-690) (-)

5.66

80000

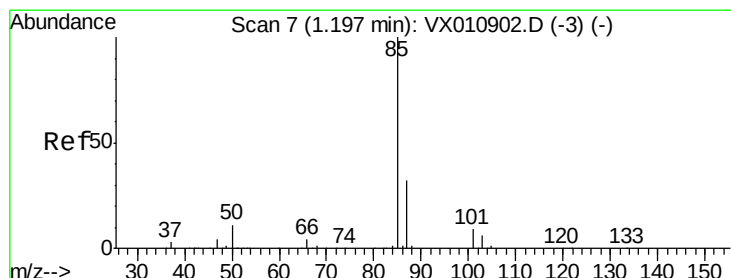
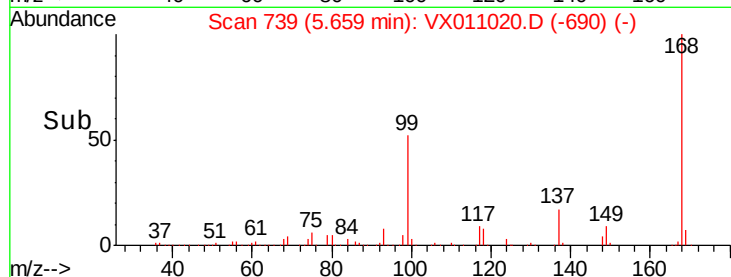
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.575 ug/l

RT: 1.19 min Scan# 6

Delta R.T. -0.01 min

Lab File: VX011020.D

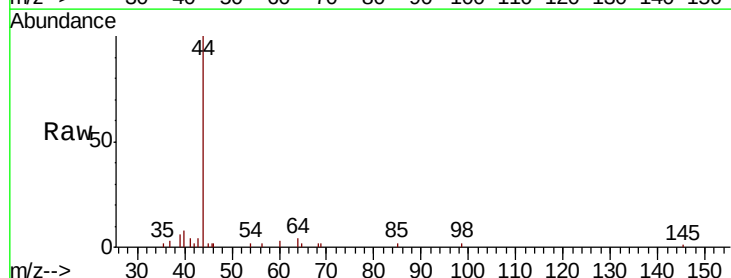
Acq: 22 Jul 2019 11:07

Tgt Ion: 85 Resp: 68

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX011020.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VX011020.D (-1) (-)

1.19

80

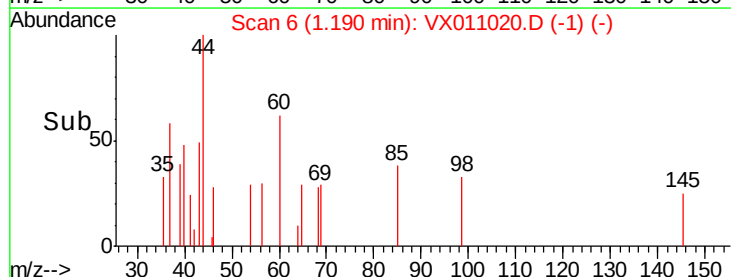
60

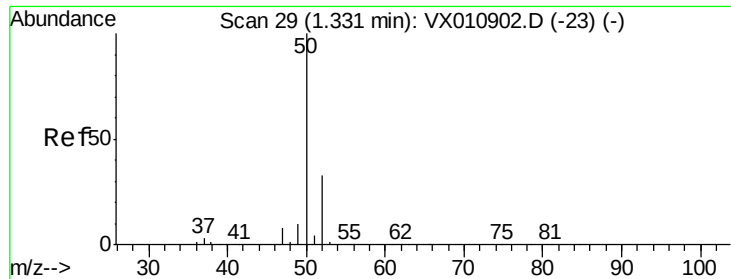
40

20

0

Time--> 1.16 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.310 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX011020.D

Acq: 22 Jul 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

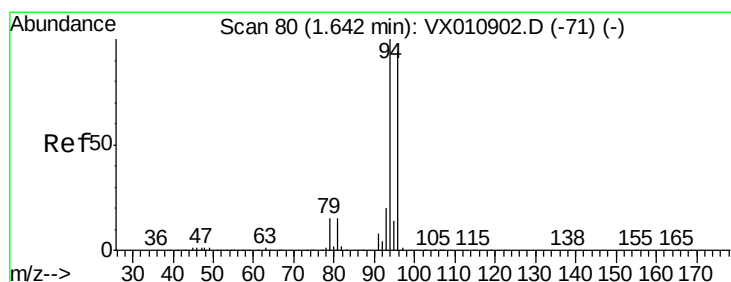
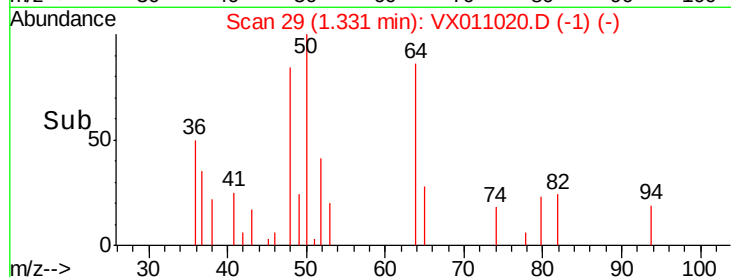
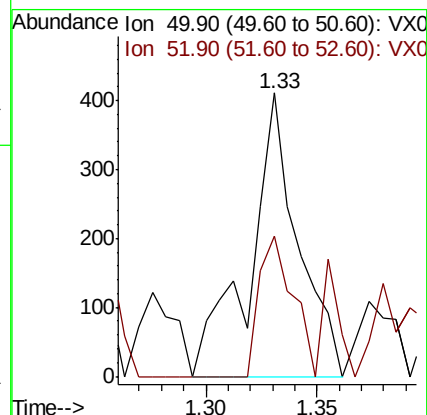
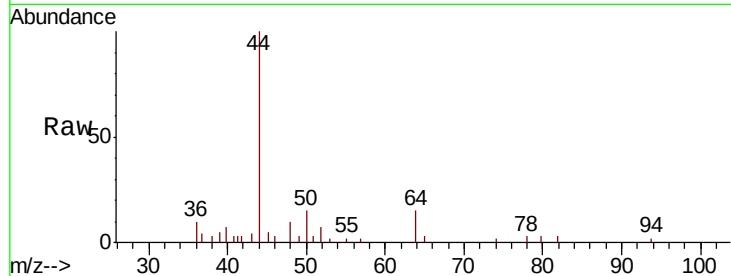
VX0722WBL01

Tot Ion: 50 Resp: 619

Ion Ratio Lower Upper

50 100

52 49.6 26.4 39.6#



#5

Bromomethane

Concen: 0.642 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX011020.D

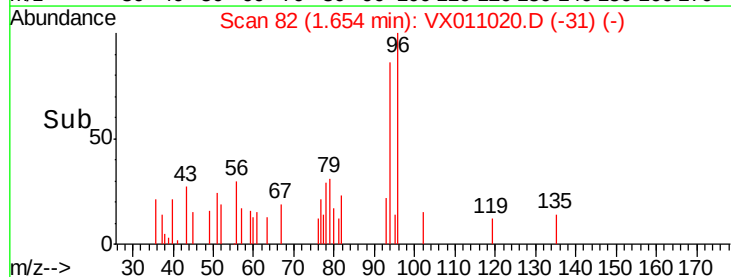
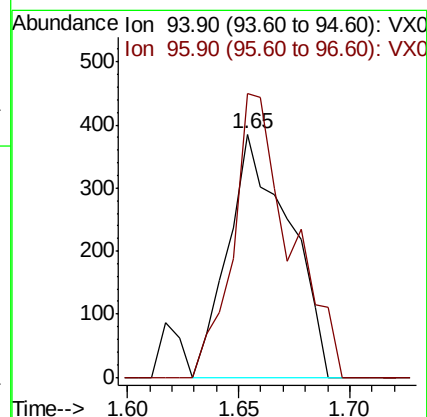
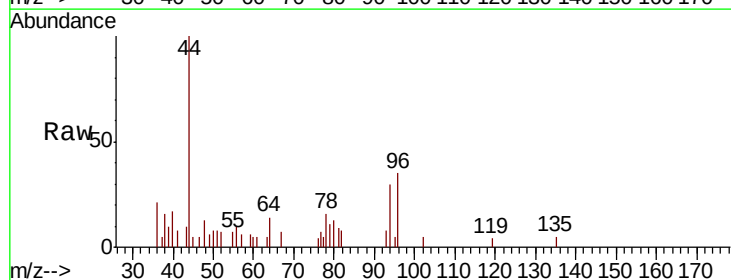
Acq: 22 Jul 2019 11:07

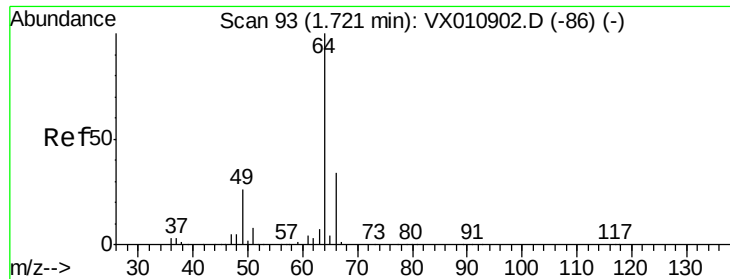
Tgt Ion: 94 Resp: 736

Ion Ratio Lower Upper

94 100

96 116.6 75.6 113.4#





#6

Chloroethane

Concen: 0.865 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX011020.D

Acq: 22 Jul 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

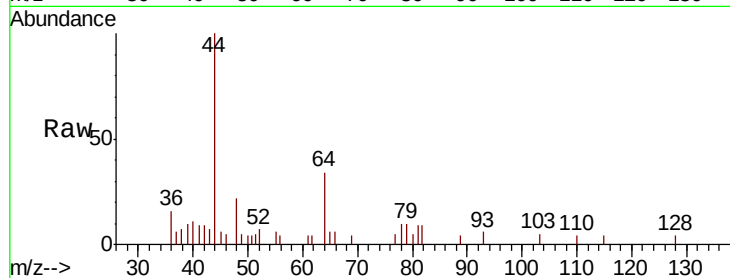
VX0722WBL01

Tot Ion: 64 Resp: 1118

Ion Ratio Lower Upper

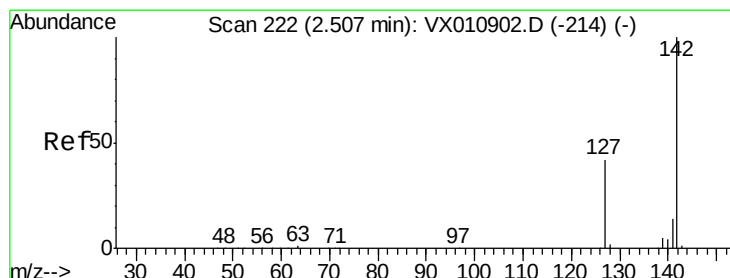
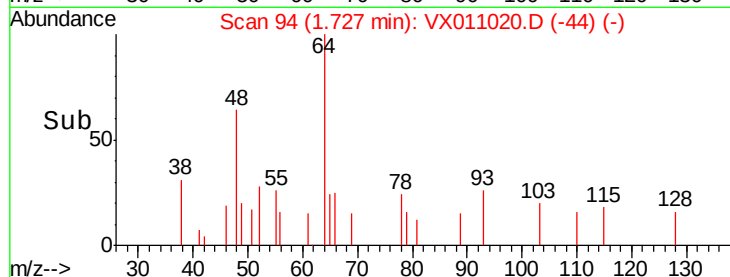
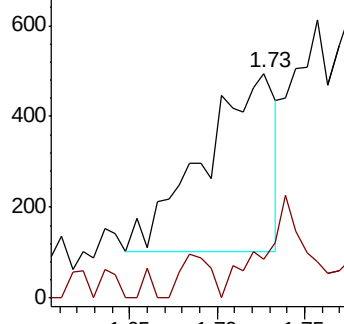
64 100

66 21.9 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 0.312 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX011020.D

Acq: 22 Jul 2019 11:07

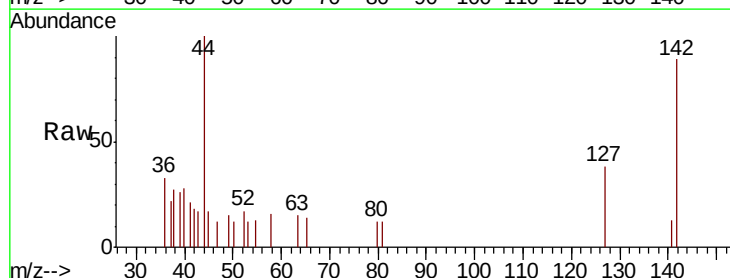
Tgt Ion: 142 Resp: 804

Ion Ratio Lower Upper

142 100

127 52.9 34.2 51.4#

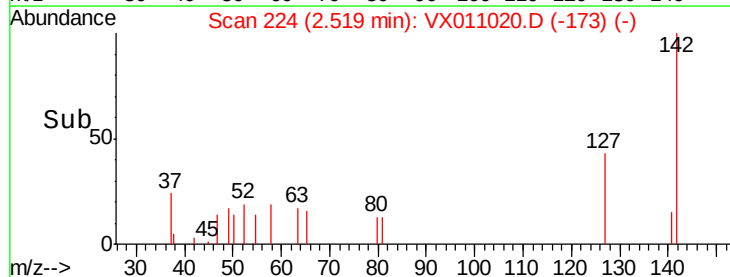
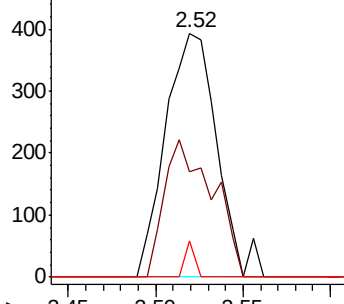
141 2.6 11.7 17.5#

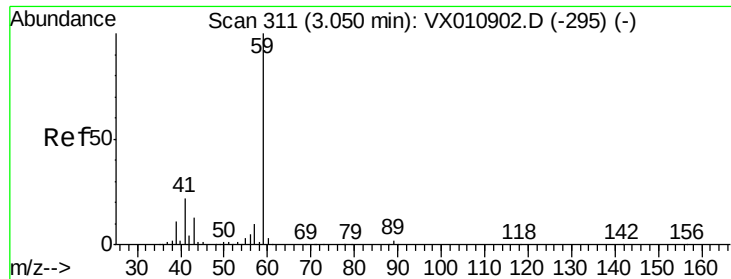


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

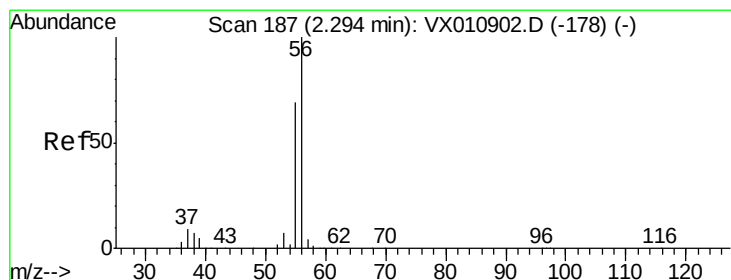
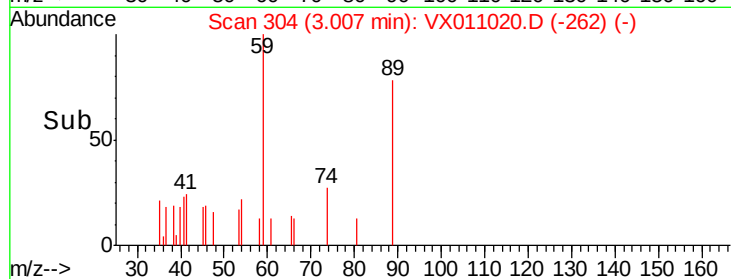
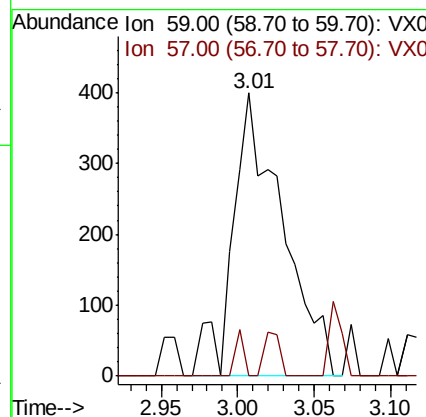
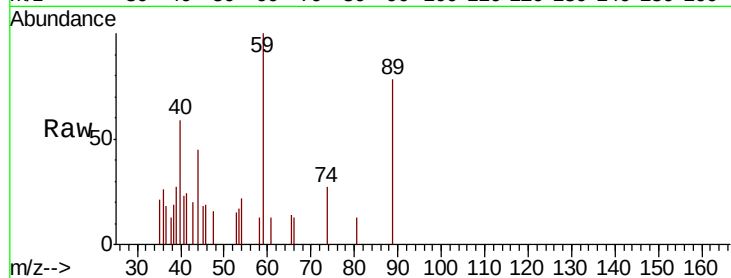




#11
Tert butyl alcohol
Concen: 1.686 ug/l
RT: 3.01 min Scan# 304
Delta R.T. -0.04 min
Lab File: VX011020.D
Acq: 22 Jul 2019 11:07

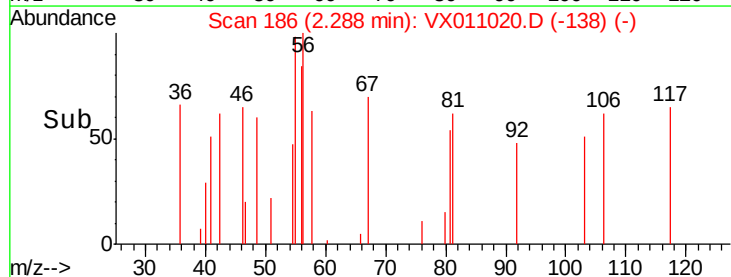
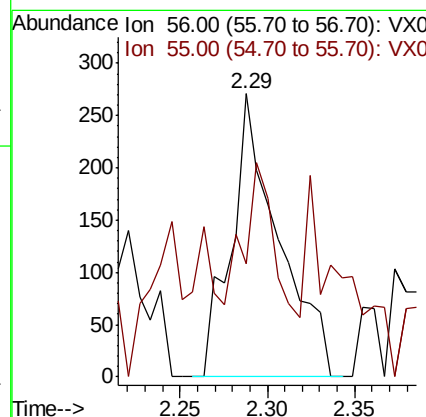
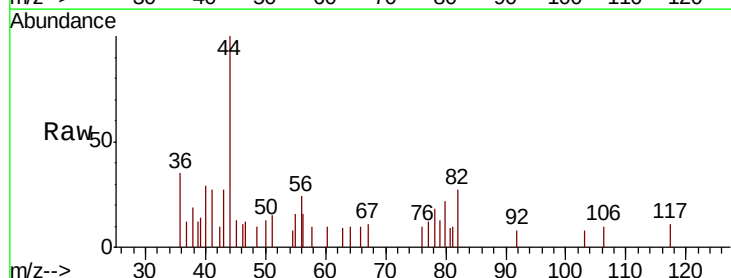
Instrument :
MSVOA_X
ClientSampleId :
VX0722WBL01

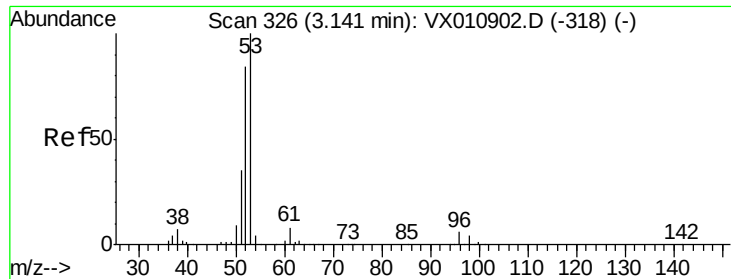
Tot Ion: 59 Resp: 906
Ion Ratio Lower Upper
59 100
57 2.6 7.9 11.9#



#13
Acrolein
Concen: 1.652 ug/l
RT: 2.29 min Scan# 186
Delta R.T. -0.01 min
Lab File: VX011020.D
Acq: 22 Jul 2019 11:07

Tgt Ion: 56 Resp: 513
Ion Ratio Lower Upper
56 100
55 45.0 55.9 83.9#





#15

Acrylonitrile

Concen: 0.518 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX011020.D

Acq: 22 Jul 2019 11:07

Instrument :

MSVOA_X

ClientSampled :

VX0722WBL01

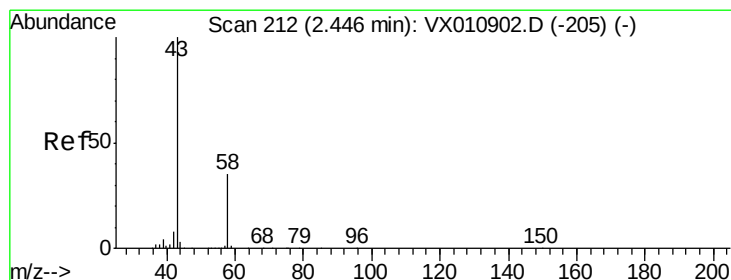
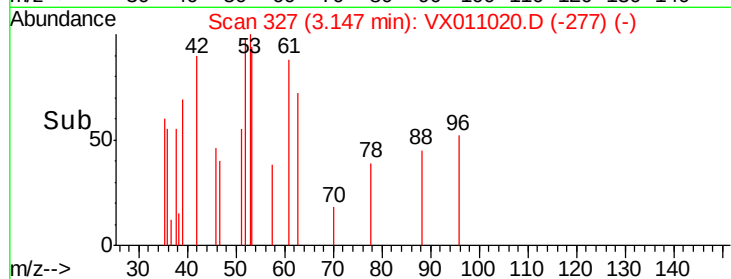
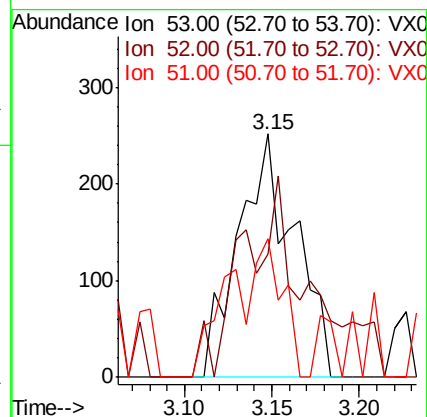
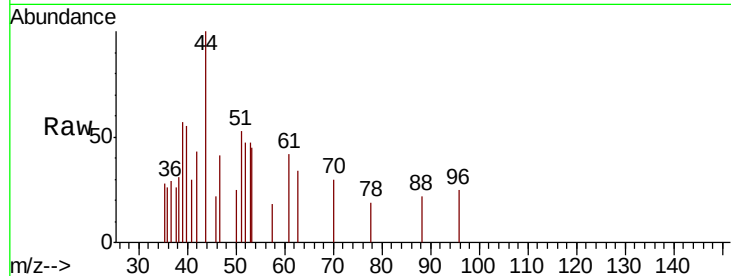
Tot Ion: 53 Resp: 562

Ion Ratio Lower Upper

53 100

52 27.2 66.5 99.7#

51 28.5 28.2 42.4



#16

Acetone

Concen: 0.230 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011020.D

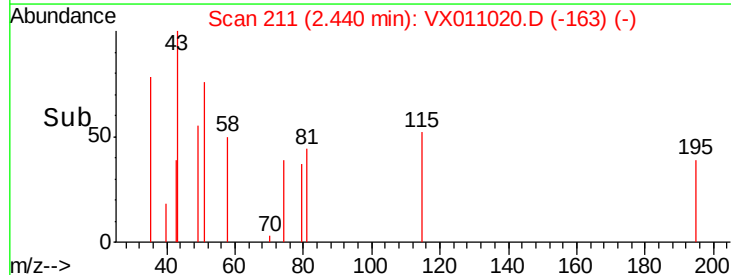
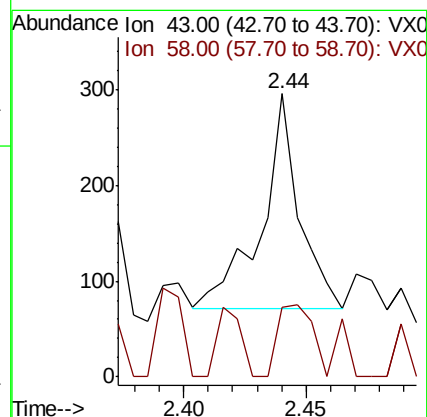
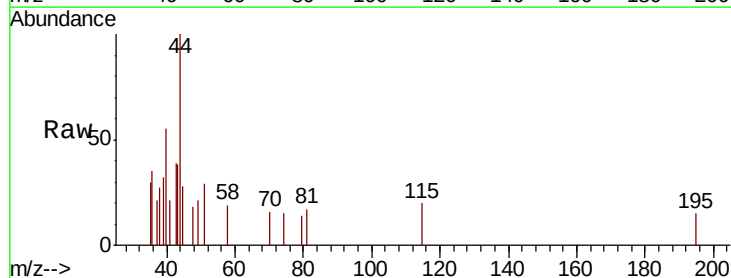
Acq: 22 Jul 2019 11:07

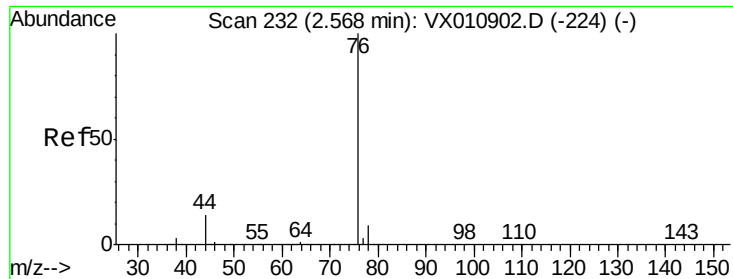
Tgt Ion: 43 Resp: 240

Ion Ratio Lower Upper

43 100

58 32.6 27.7 41.5





#17

Carbon Disulfide

Concen: 0.281 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX011020.D

Acq: 22 Jul 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

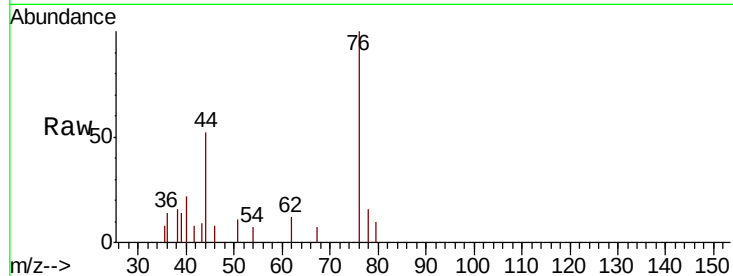
VX0722WBL01

Tot Ion: 76 Resp: 1394

Ion Ratio Lower Upper

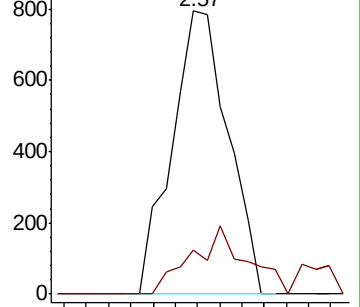
76 100

78 15.7 7.4 11.0#

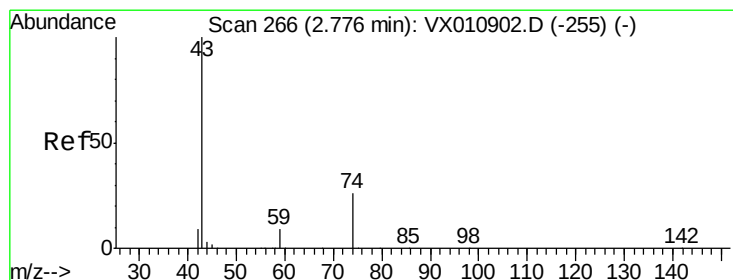
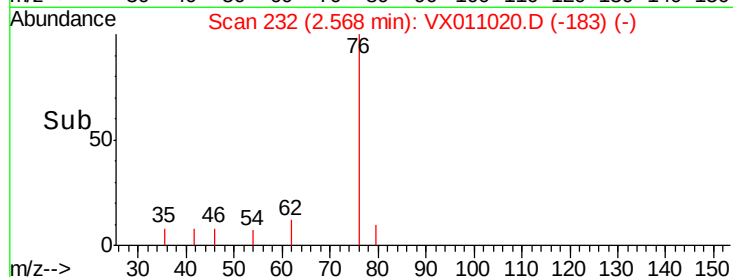


Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



Time-->



#18

Methyl Acetate

Concen: 0.286 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX011020.D

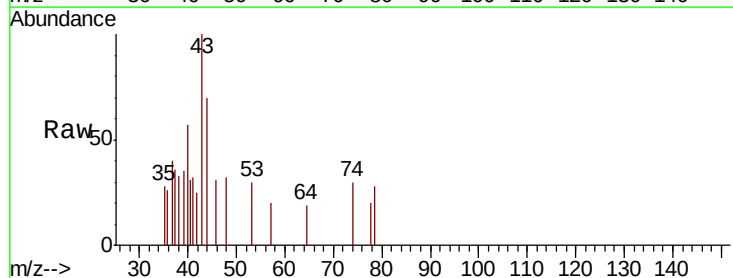
Acq: 22 Jul 2019 11:07

Tgt Ion: 43 Resp: 679

Ion Ratio Lower Upper

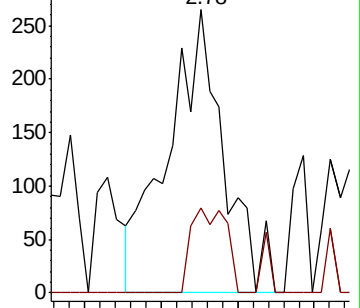
43 100

74 18.9 21.5 32.3#

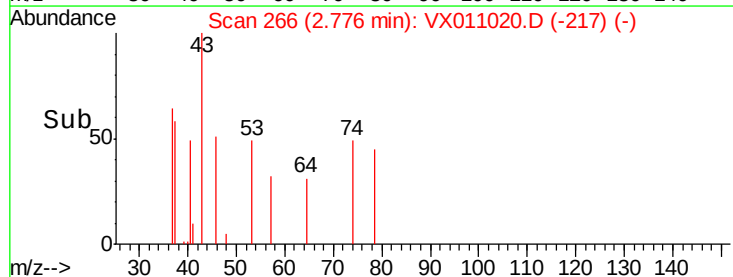


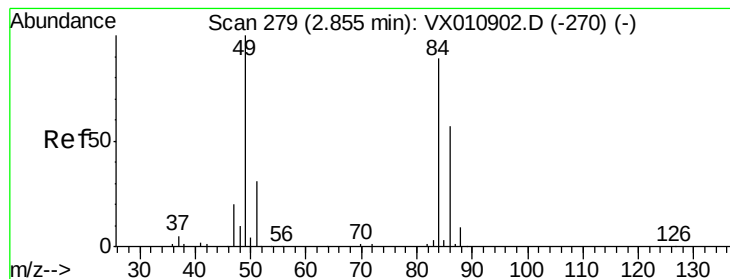
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



Time-->





#20

Methylene Chloride

Concen: 0.212 ug/l

RT: 2.85 min Scan# 279

Delta R.T. 0.00 min

Lab File: VX011020.D

Acq: 22 Jul 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0722WBL01

Tot Ion: 84 Resp: 468

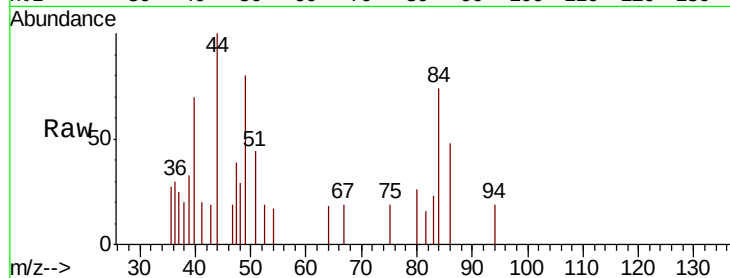
Ion Ratio Lower Upper

84 100

49 108.5 89.9 134.9

51 37.6 27.8 41.6

86 65.4 51.8 77.6

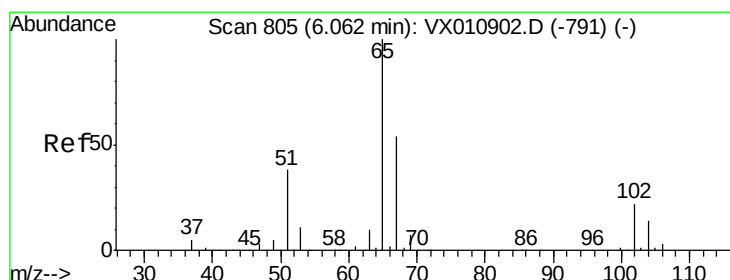
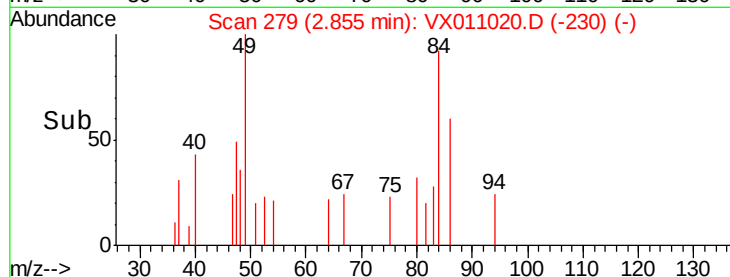
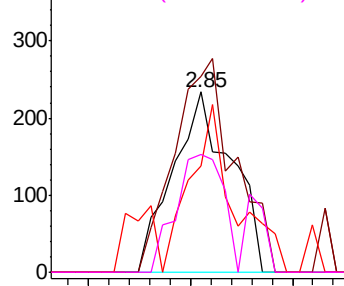


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#33

1,2-Dichloroethane-d4

Concen: 51.248 ug/l

RT: 6.06 min Scan# 804

Delta R.T. -0.01 min

Lab File: VX011020.D

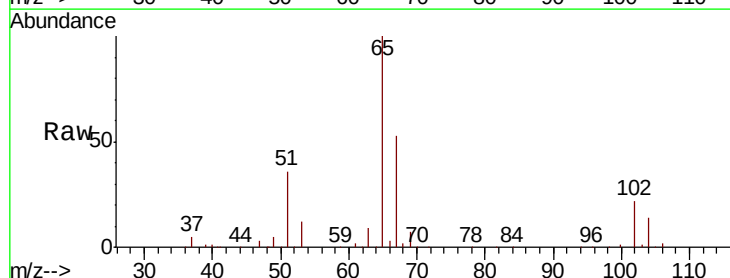
Acq: 22 Jul 2019 11:07

Tgt Ion: 65 Resp: 118261

Ion Ratio Lower Upper

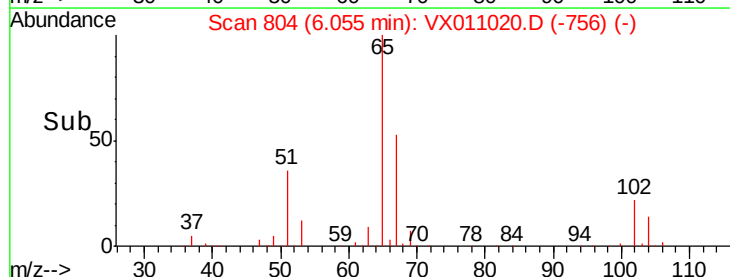
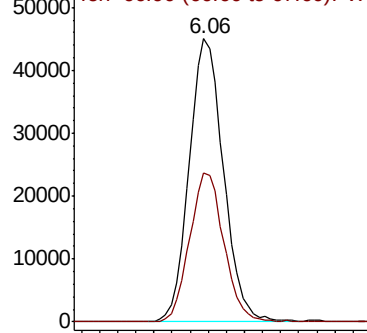
65 100

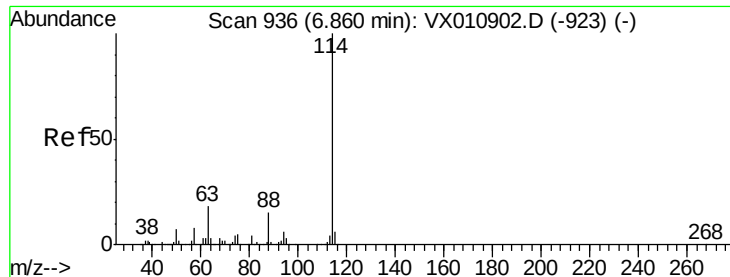
67 52.8 0.0 107.8



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: 6.85 min Scan# 935

Delta R.T. -0.01 min

Lab File: VX011020.D

Acq: 22 Jul 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0722WBL01

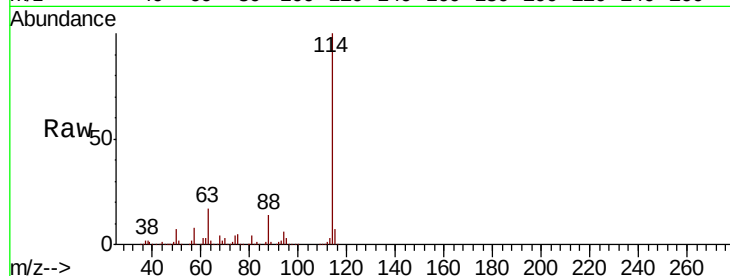
Tot Ion:114 Resp: 341801

Ion Ratio Lower Upper

114 100

63 17.3 0.0 35.6

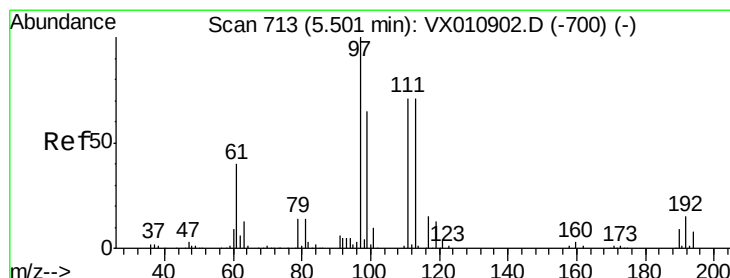
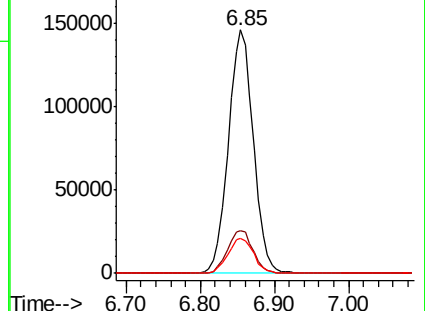
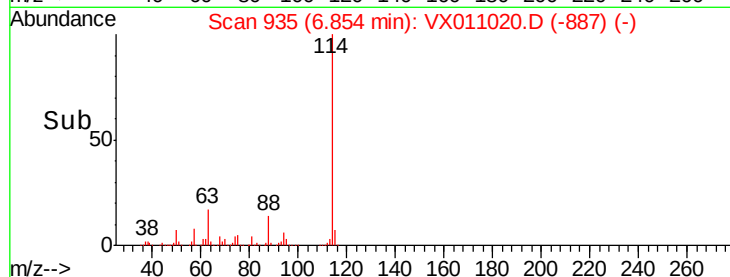
88 14.3 0.0 29.8



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: 50.422 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX011020.D

Acq: 22 Jul 2019 11:07

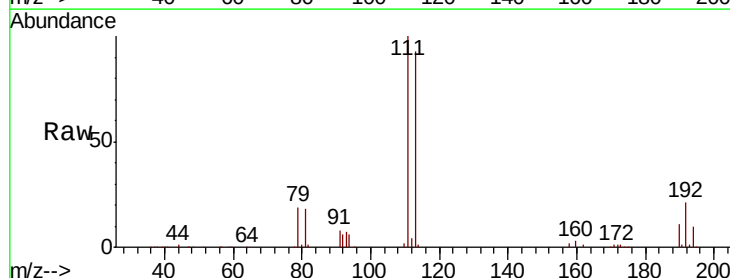
Tgt Ion:113 Resp: 109390

Ion Ratio Lower Upper

113 100

111 101.8 82.3 123.5

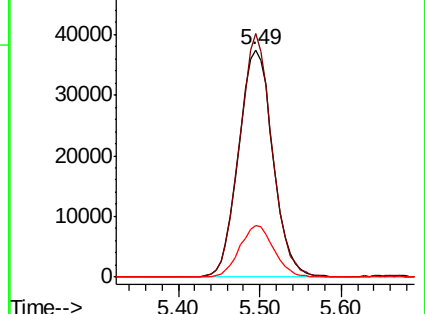
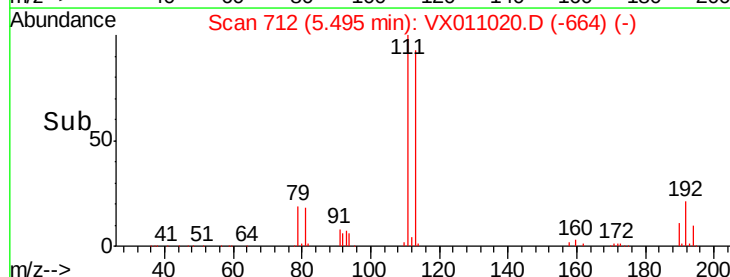
192 22.5 17.4 26.2

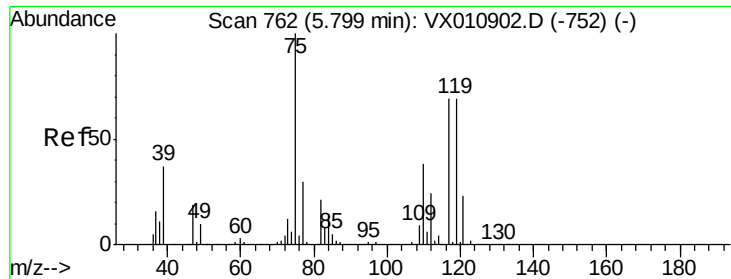


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.229 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.15 min

Lab File: VX011020.D

Acq: 22 Jul 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

VX0722WBL01

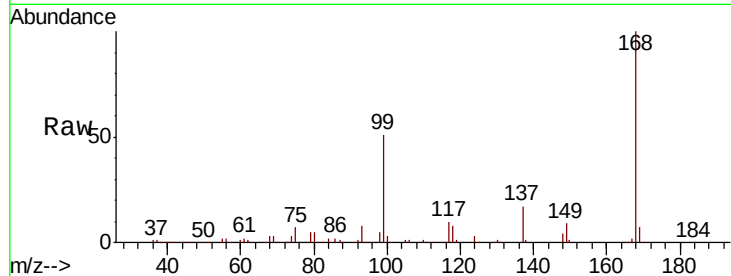
Tot Ion: 75 Resp: 14681

Ion Ratio Lower Upper

75 100

110 9.7 19.9 59.7#

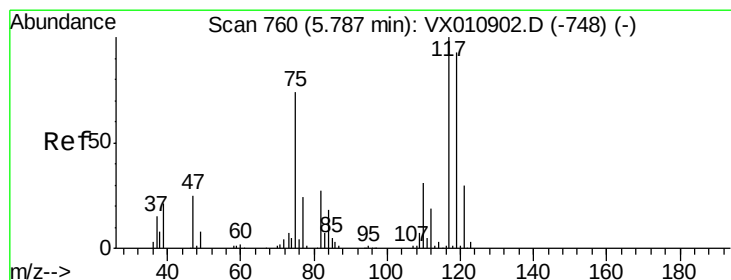
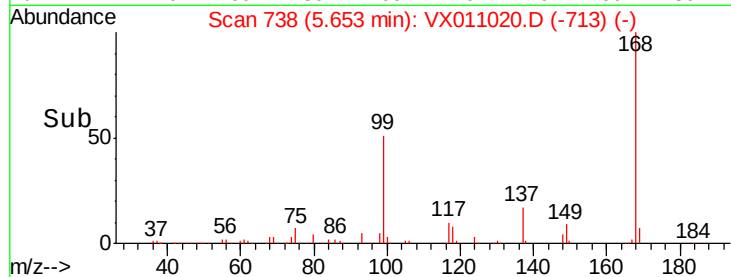
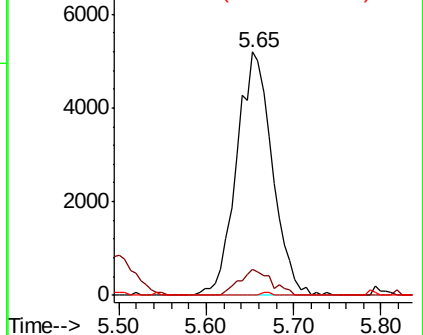
77 0.3 25.0 37.4#



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: 6.972 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.13 min

Lab File: VX011020.D

Acq: 22 Jul 2019 11:07

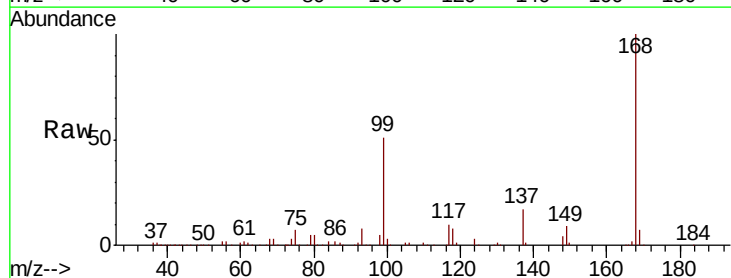
Tgt Ion: 117 Resp: 20397

Ion Ratio Lower Upper

117 100

119 6.3 74.2 111.2#

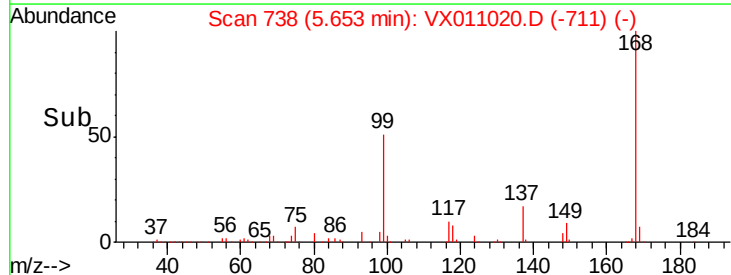
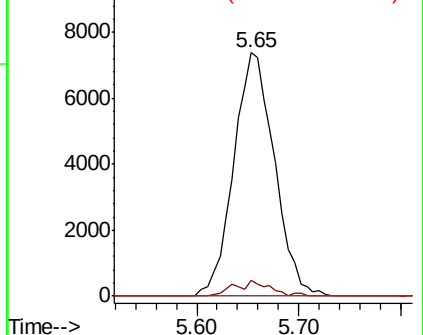
121 0.0 24.2 36.2#

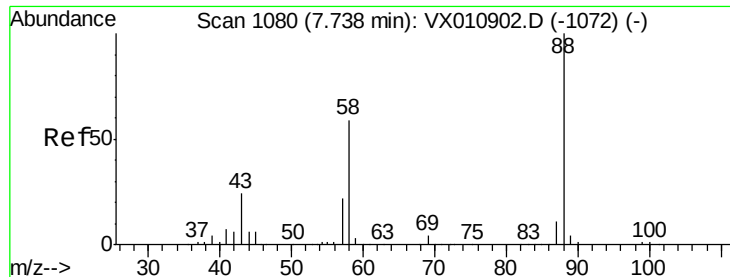


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

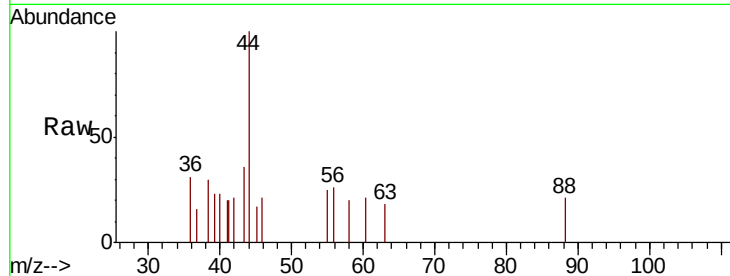




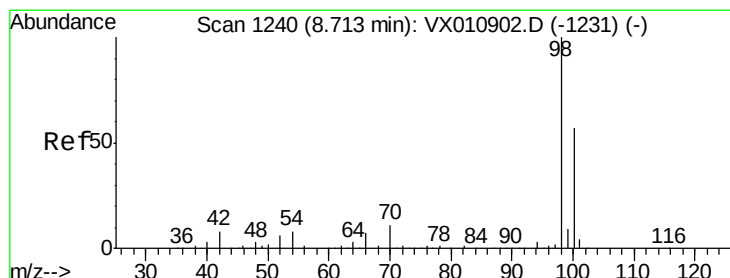
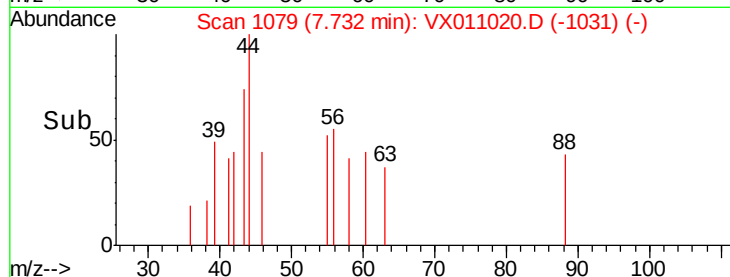
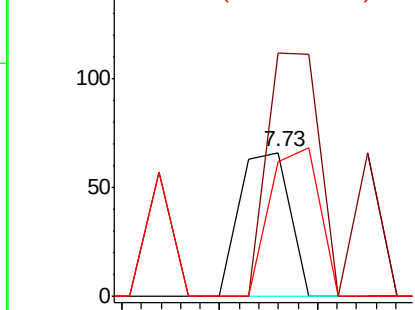
#49
 1,4-Dioxane
 Concen: 0.730 ug/l
 RT: 7.73 min Scan# 1079
 Delta R.T. -0.01 min
 Lab File: VX011020.D
 Acq: 22 Jul 2019 11:07

Instrument :
 MSVOA_X
 ClientSampled :
 VX0722WBL01

Tot Ion: 88 Resp: 47
 Ion Ratio Lower Upper
 88 100
 43 225.5 22.9 34.3#
 58 102.1 49.8 74.8#

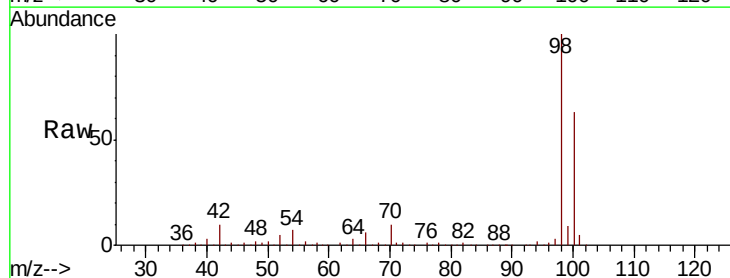


Abundance Ion 88.00 (87.70 to 88.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0

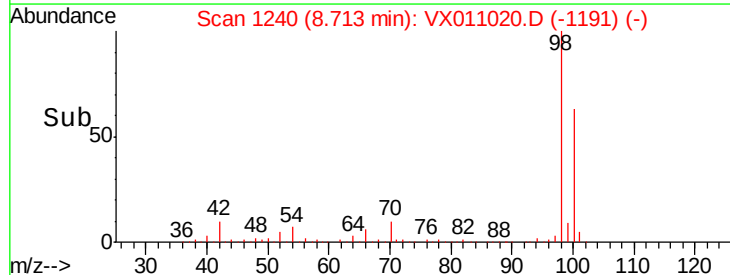
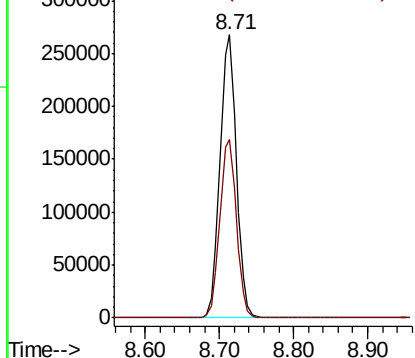


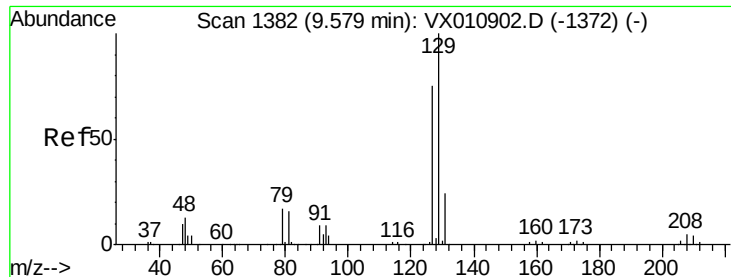
#50
 Toluene-d8
 Concen: 50.132 ug/l
 RT: 8.71 min Scan# 1240
 Delta R.T. 0.00 min
 Lab File: VX011020.D
 Acq: 22 Jul 2019 11:07

Tgt Ion: 98 Resp: 407918
 Ion Ratio Lower Upper
 98 100
 100 64.0 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0
 Ion 100.00 (99.70 to 100.70): VX0





#60

Dibromochloromethane

Concen: 2.542 ug/l

RT: 9.33 min Scan# 1341

Delta R.T. -0.25 min

Lab File: VX011020.D

Acq: 22 Jul 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

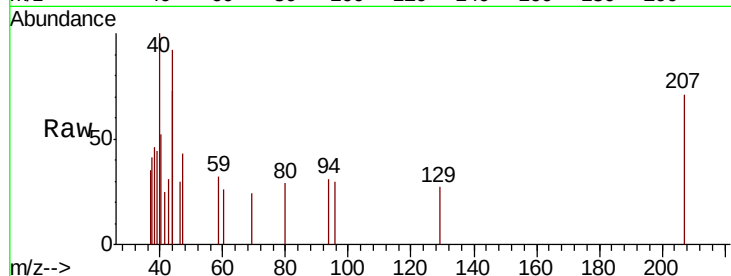
VX0722WBL01

Tot Ion:129 Resp: 40

Ion Ratio Lower Upper

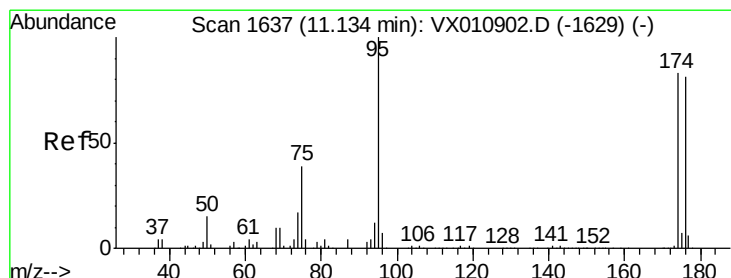
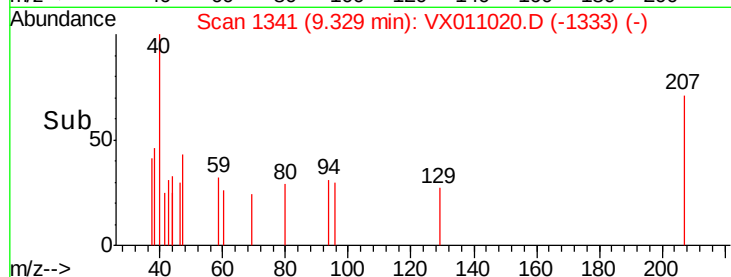
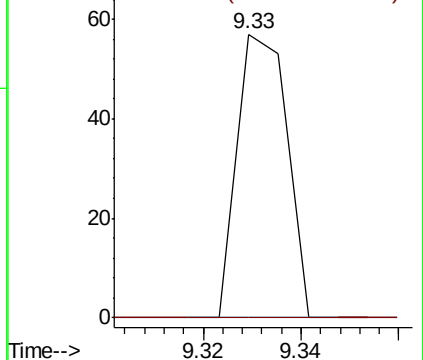
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 47.168 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011020.D

Acq: 22 Jul 2019 11:07

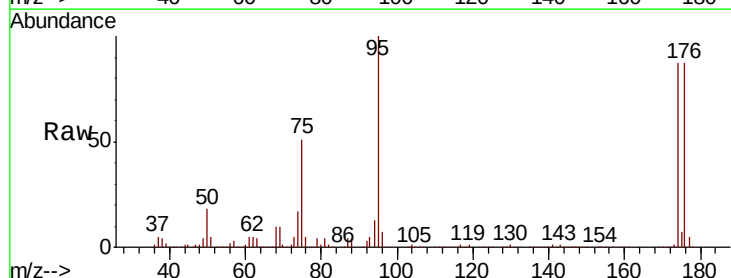
Tgt Ion: 95 Resp: 141074

Ion Ratio Lower Upper

95 100

174 90.1 0.0 180.6

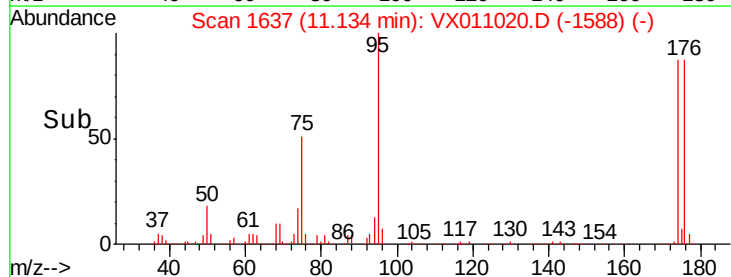
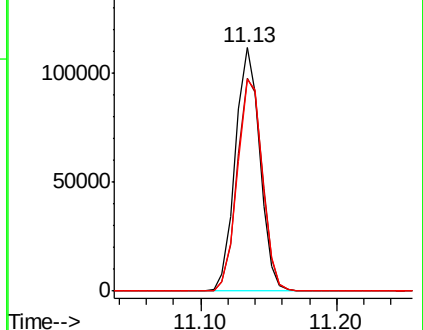
176 88.8 0.0 173.8

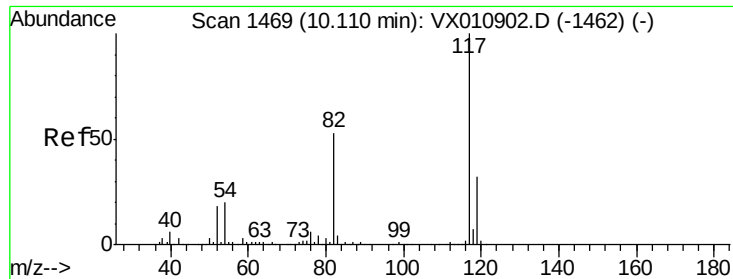


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

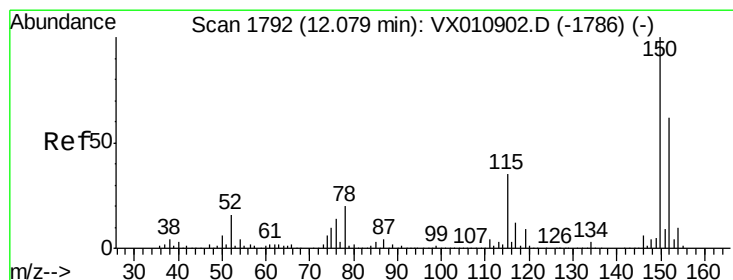
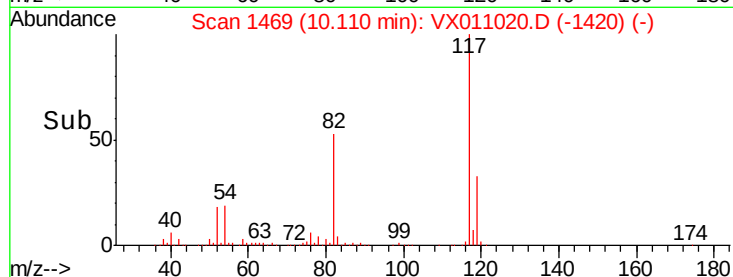
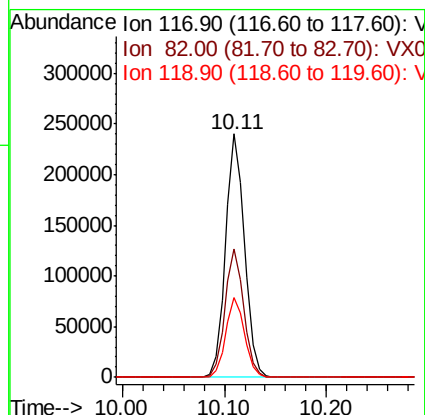
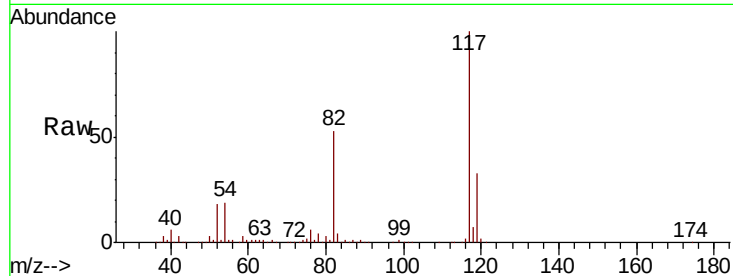




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011020.D
Acq: 22 Jul 2019 11:07

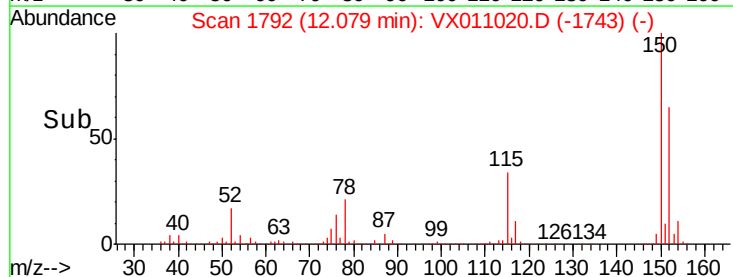
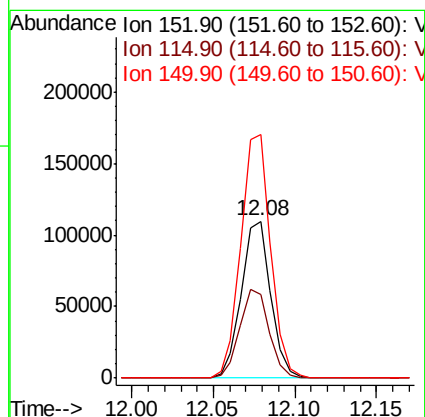
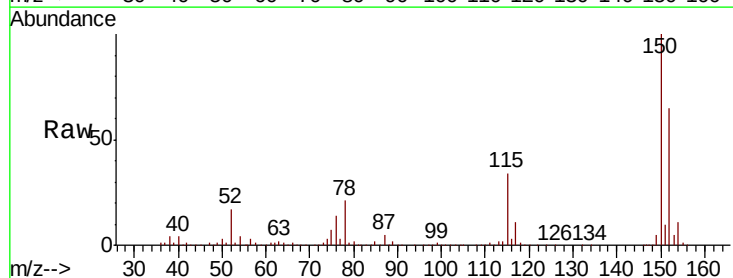
Instrument :
MSVOA_X
ClientSampleId :
VX0722WBL01

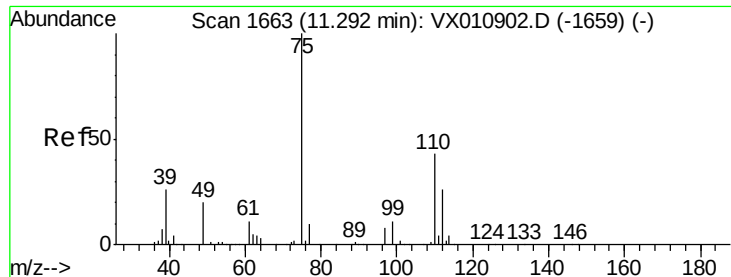
Tot Ion:117 Resp: 310418
Ion Ratio Lower Upper
117 100
82 52.8 42.6 63.8
119 32.6 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX011020.D
Acq: 22 Jul 2019 11:07

Tgt Ion:152 Resp: 138212
Ion Ratio Lower Upper
152 100
115 56.3 39.7 119.1
150 157.2 0.0 345.6





#76

1,2,3-Trichloropropane

Concen: 28.552 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011020.D

Acq: 22 Jul 2019 11:07

Instrument :

MSVOA_X

ClientSampleId :

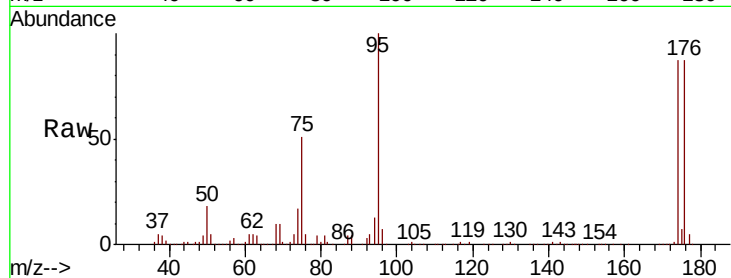
VX0722WBL01

Tot Ion: 75 Resp: 71211

Ion Ratio Lower Upper

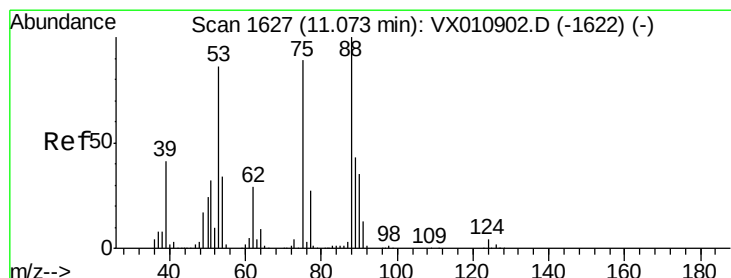
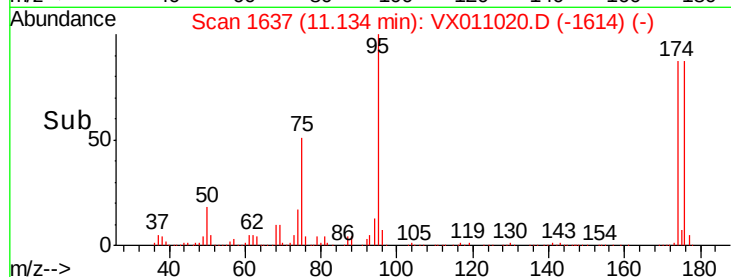
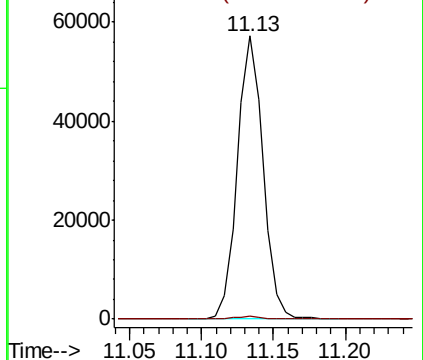
75 100

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: 70.559 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011020.D

Acq: 22 Jul 2019 11:07

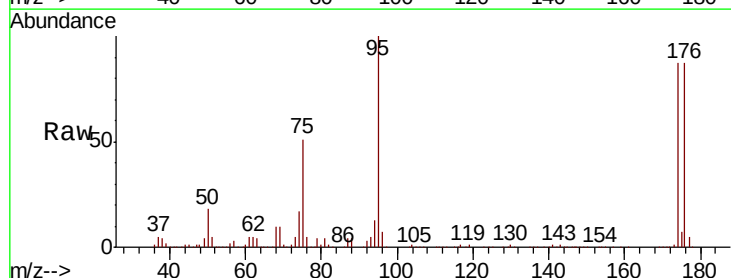
Tgt Ion: 75 Resp: 71211

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

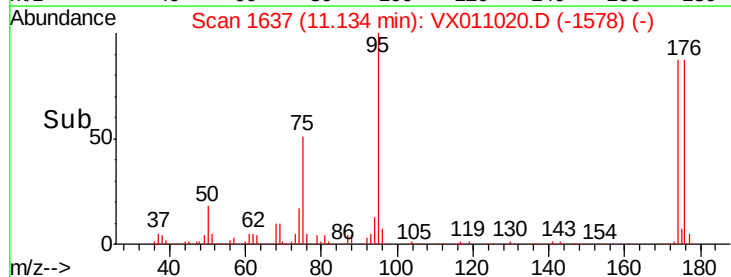
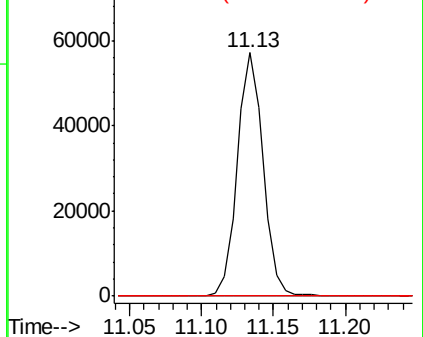
89 0.0 38.5 57.7#

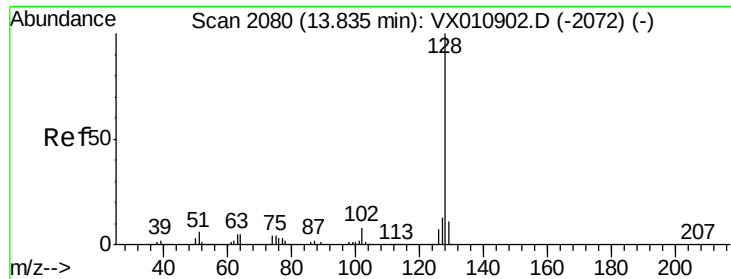


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

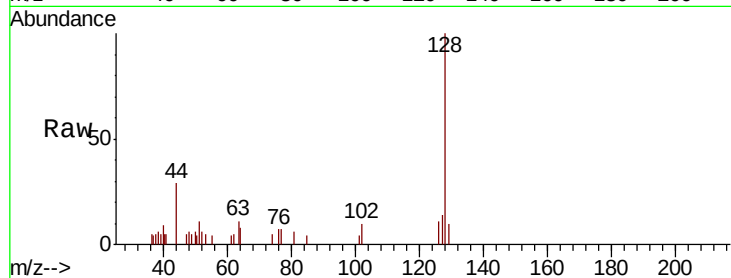




#95
 Naphthalene
 Concen: 0.207 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. 0.00 min
 Lab File: VX011020.D
 Acq: 22 Jul 2019 11:07

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0722WBL01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.4	15.6
129	11.3	8.9	13.3



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

