

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072619\
 Data File : VX011103.D
 Acq On : 26 Jul 2019 20:06
 Operator : JC/SP
 Sample : PB121723ZHE#09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#09

Quant Time: Jul 27 02:05:59 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	5.66	168	194166	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	314223	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	299742	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	135562	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	107735	52.16	ug/l	0.00
Spiked Amount			Recovery	=	104.32%	
35) Dibromofluoromethane	5.50	113	98917	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
50) Toluene-d8	8.71	98	390413	52.19	ug/l	0.00
Spiked Amount			Recovery	=	104.38%	
62) 4-Bromofluorobenzene	11.13	95	133662	48.61	ug/l	0.00
Spiked Amount			Recovery	=	97.22%	

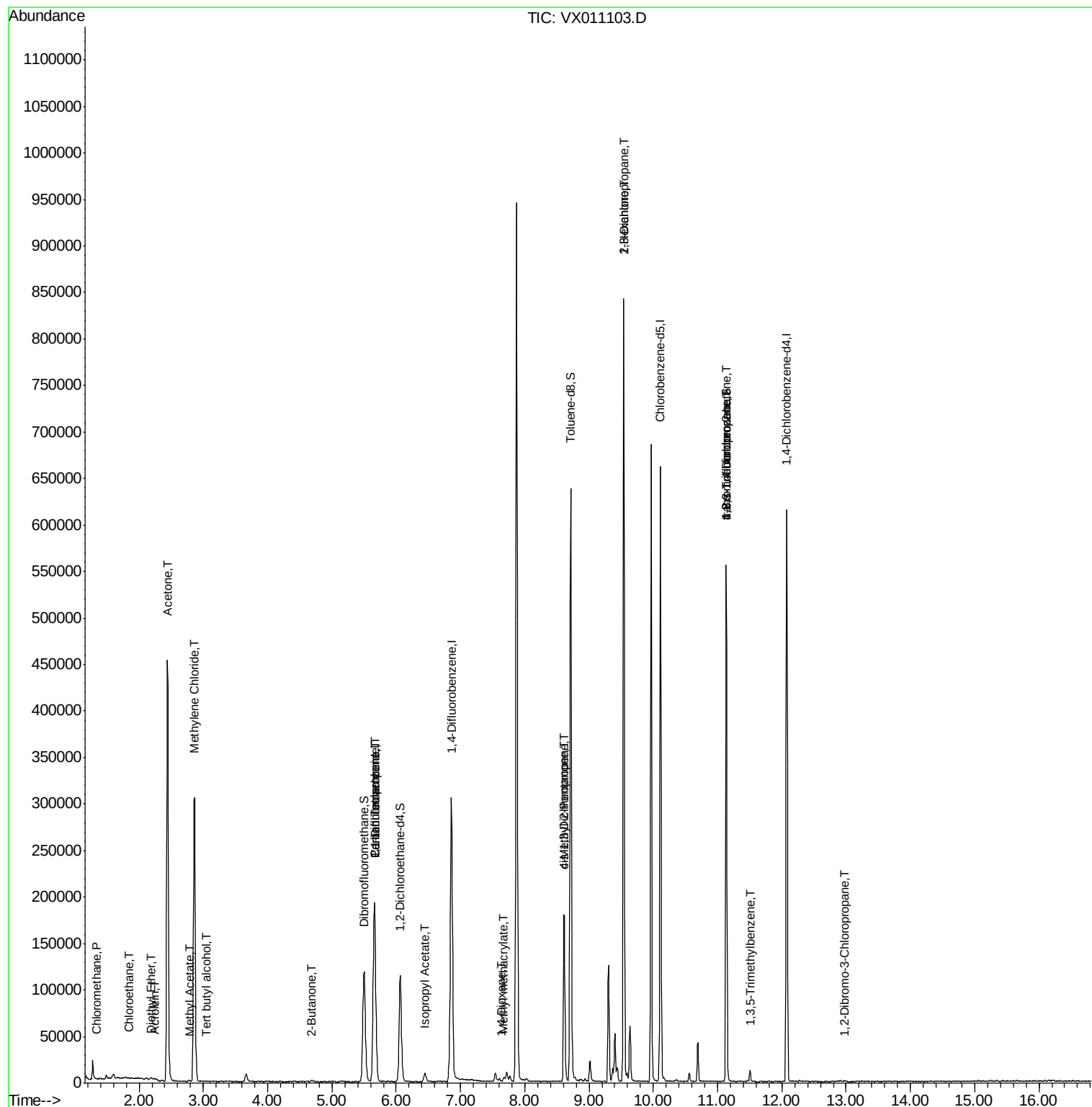
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	502	0.281	ug/l #	33
6) Chloroethane	1.84	64	232	0.200	ug/l #	41
8) Diethyl Ether	2.19	74	745	0.701	ug/l	99
11) Tert butyl alcohol	3.04	59	500	1.039	ug/l #	73
13) Acrolein	2.24	56	230	0.828	ug/l #	15
16) Acetone	2.44	43	474482	508.589	ug/l	98
18) Methyl Acetate	2.78	43	1491	0.702	ug/l	95
20) Methylene Chloride	2.86	84	151581	76.669	ug/l	98
25) 2-Butanone	4.68	43	2741	2.047	ug/l	97
36) 1,1-Dichloropropene	5.66	75	13196	5.113	ug/l #	48
38) Carbon Tetrachloride	5.66	117	17670	6.570	ug/l #	17
43) Isopropyl Acetate	6.45	43	12763	2.937	ug/l	99
48) Methyl methacrylate	7.68	41	5720	2.702	ug/l #	10
49) 1,4-Dioxane	7.64	88	26	0.439	ug/l #	28
51) 4-Methyl-2-Pentanone	8.61	43	61636	21.879	ug/l #	48
54) cis-1,3-Dichloropropene	8.62	75	30290	9.891	ug/l #	61
57) 1,3-Dichloropropane	9.54	76	7346	2.165	ug/l #	43
59) 2-Hexanone	9.54	43	94406	43.207	ug/l #	52
76) 1,2,3-Trichloropropane	11.13	75	68314	27.926	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	4556	0.595	ug/l	90
81) trans-1,4-Dichloro-2-buten	11.13	75	68314	69.099	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.97	75	226	0.361	ug/l #	1

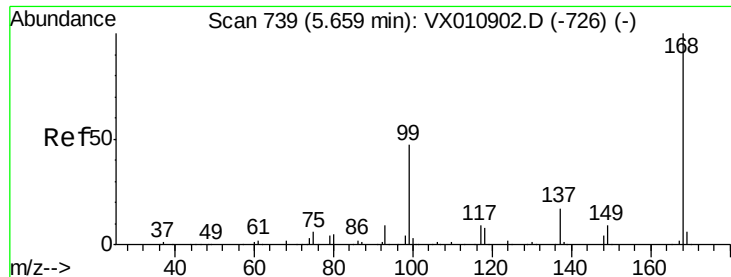
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 27 02:05:59 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX011103.D

Acq: 26 Jul 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

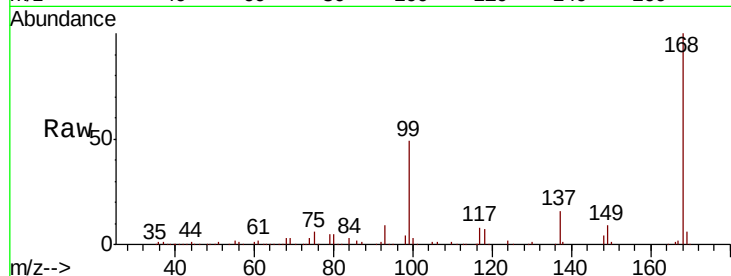
PB121723ZHE#09

Tot Ion:168 Resp: 194166

Ion Ratio Lower Upper

168 100

99 49.3 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

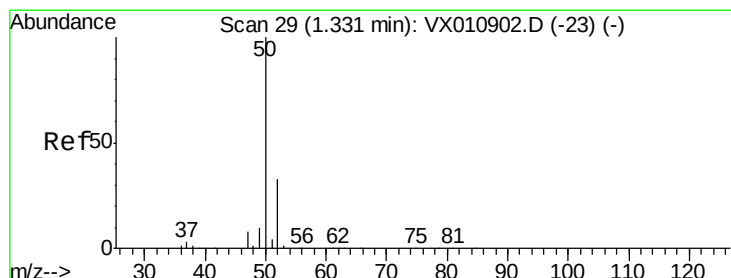
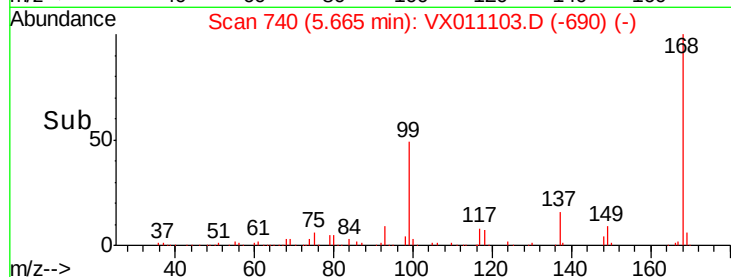
40000

20000

0

5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.281 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX011103.D

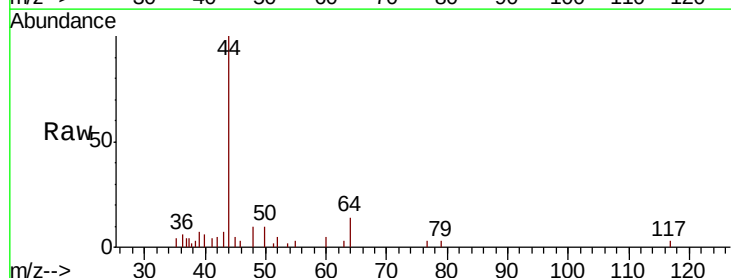
Acq: 26 Jul 2019 20:06

Tgt Ion: 50 Resp: 502

Ion Ratio Lower Upper

50 100

52 70.9 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

500

400

300

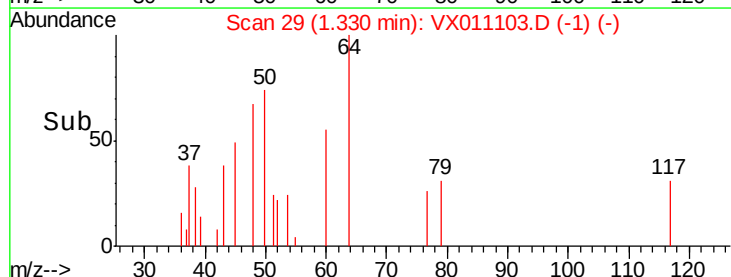
200

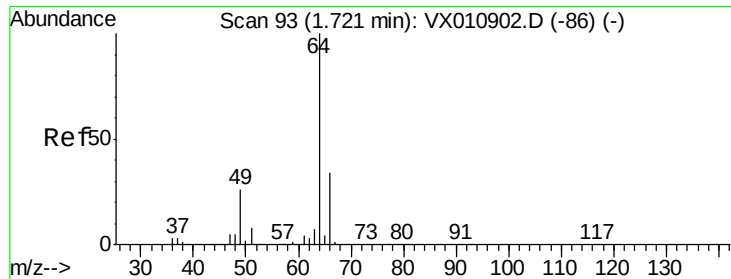
100

0

1.30 1.35 1.40

Time-->





#6

Chloroethane

Concen: 0.200 ug/l

RT: 1.84 min Scan# 112

Delta R.T. 0.12 min

Lab File: VX011103.D

Acq: 26 Jul 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

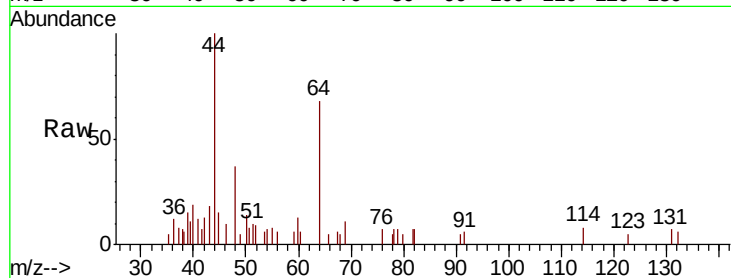
PB121723ZHE#09

Tot Ion: 64 Resp: 232

Ion Ratio Lower Upper

64 100

66 0.0 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

800

600

400

200

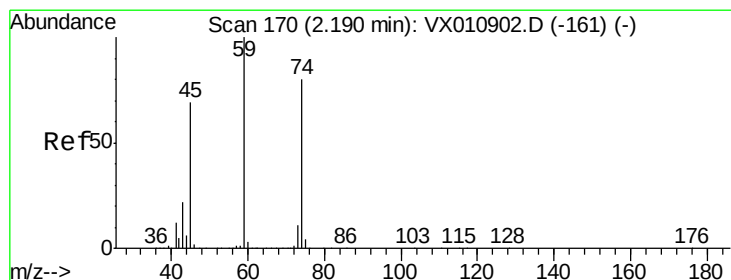
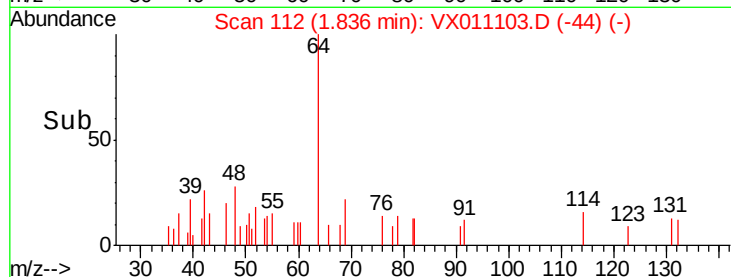
0

1.82

1.84

1.86

Time-->



#8

Diethyl Ether

Concen: 0.701 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX011103.D

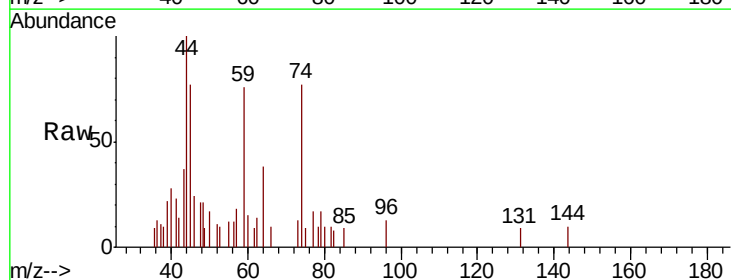
Acq: 26 Jul 2019 20:06

Tgt Ion: 74 Resp: 745

Ion Ratio Lower Upper

74 100

45 89.8 45.5 136.5



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

500

400

300

200

100

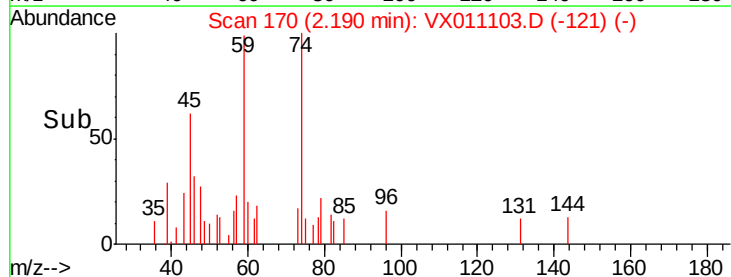
0

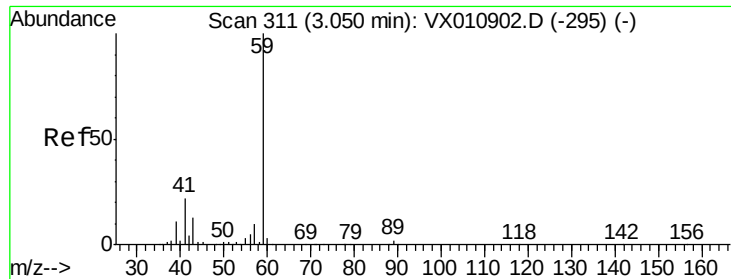
2.15

2.20

2.25

Time-->



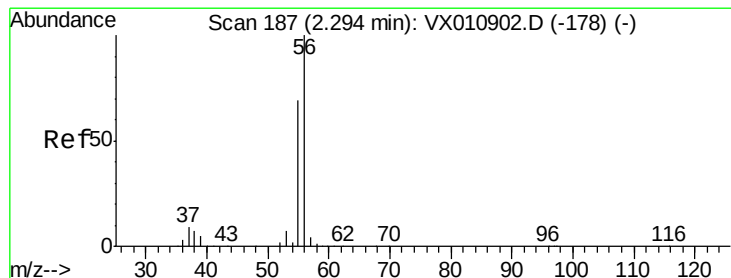
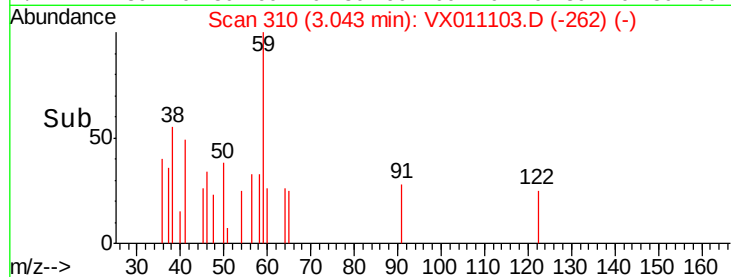
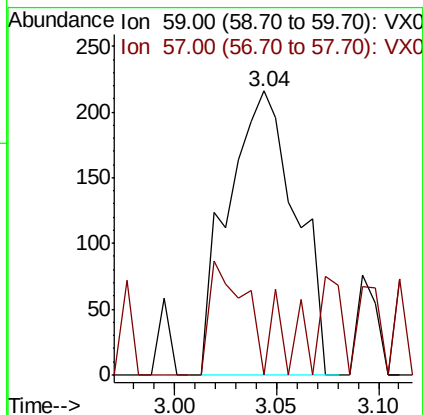
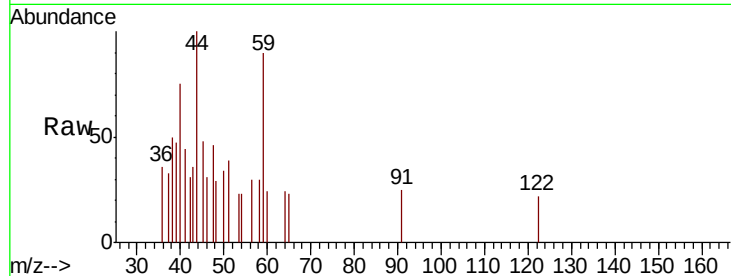


#11

Tert butyl alcohol
 Concen: 1.039 ug/l
 RT: 3.04 min Scan# 310
 Delta R.T. -0.01 min
 Lab File: VX011103.D
 Acq: 26 Jul 2019 20:06

Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#09

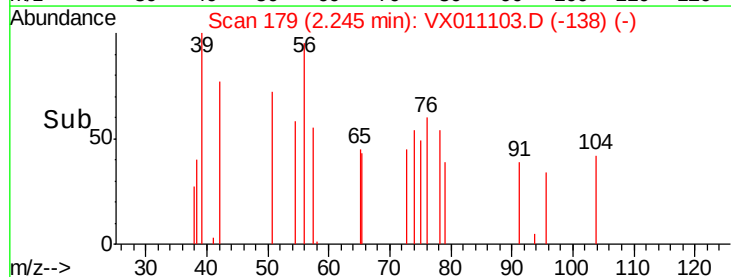
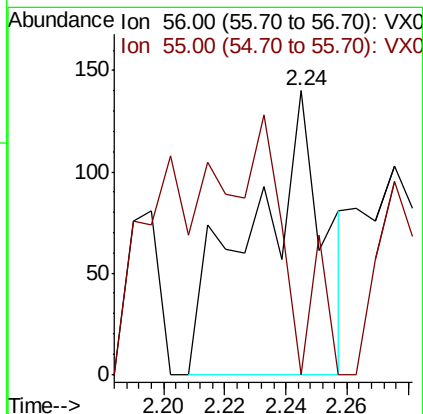
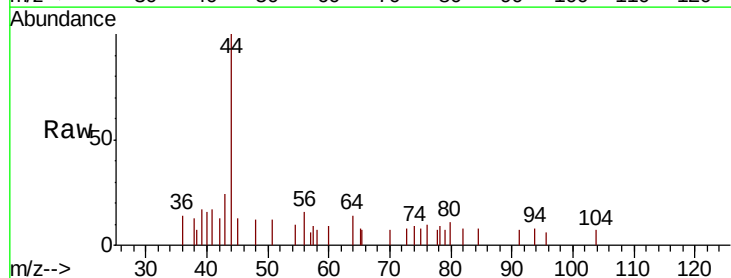
Tot Ion: 59 Resp: 500
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

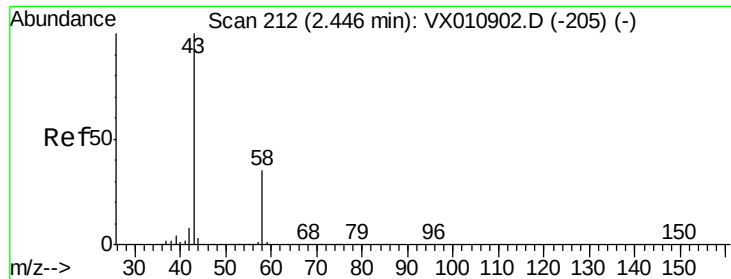


#13

Acrolein
 Concen: 0.828 ug/l
 RT: 2.24 min Scan# 179
 Delta R.T. -0.05 min
 Lab File: VX011103.D
 Acq: 26 Jul 2019 20:06

Tgt Ion: 56 Resp: 230
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.9 83.9#





#16

Acetone

Concen: 508.589 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011103.D

Acq: 26 Jul 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

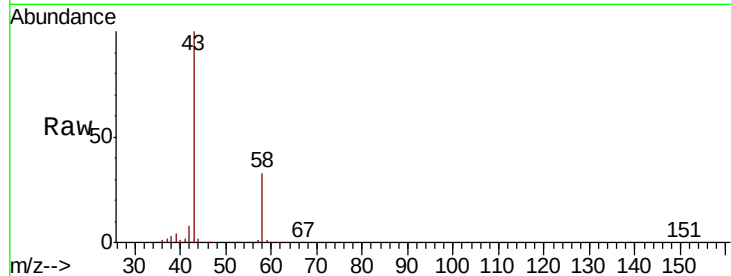
PB121723ZHE#09

Tot Ion: 43 Resp: 474482

Ion Ratio Lower Upper

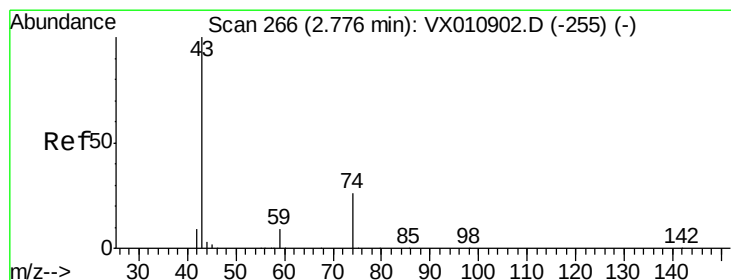
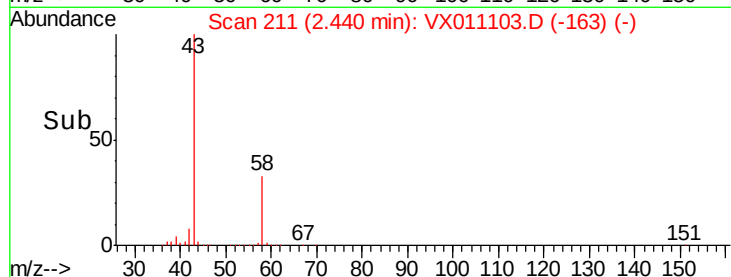
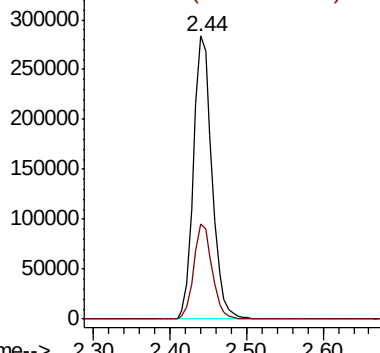
43 100

58 33.4 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.702 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX011103.D

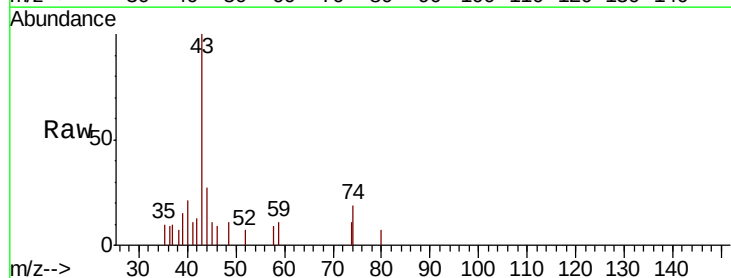
Acq: 26 Jul 2019 20:06

Tgt Ion: 43 Resp: 1491

Ion Ratio Lower Upper

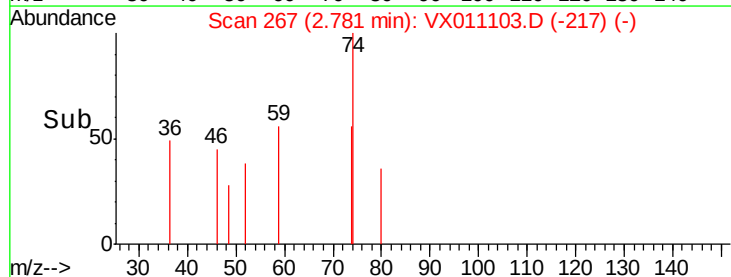
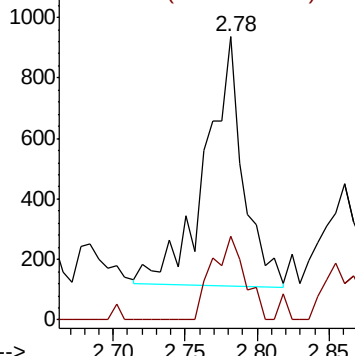
43 100

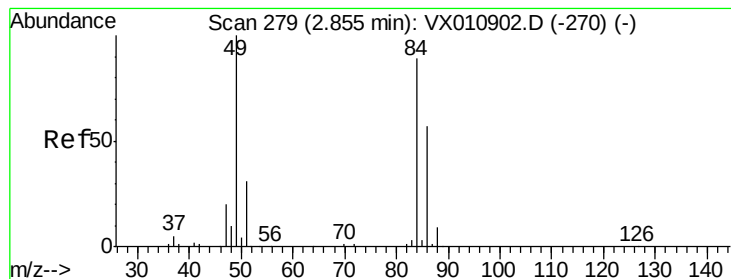
74 29.3 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#20

Methylene Chloride

Concen: 76.669 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.01 min

Lab File: VX011103.D

Acq: 26 Jul 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#09

Tot Ion: 84 Resp: 151581

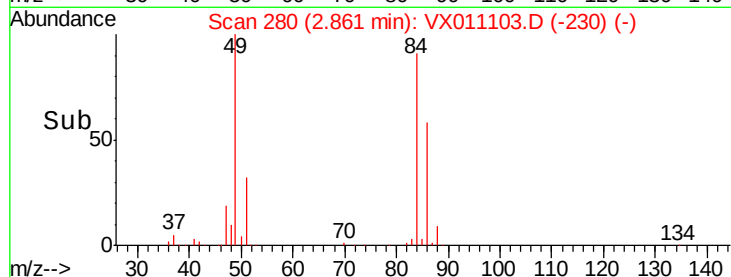
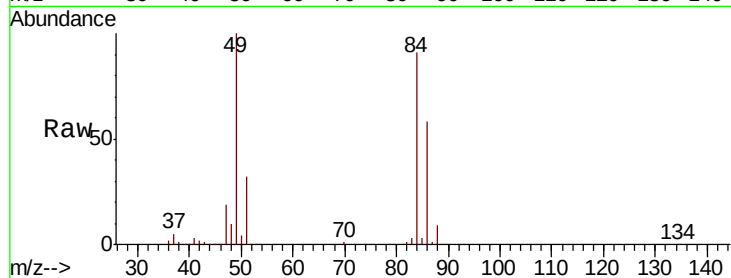
Ion Ratio Lower Upper

84 100

49 109.7 89.9 134.9

51 35.3 27.8 41.6

86 64.1 51.8 77.6

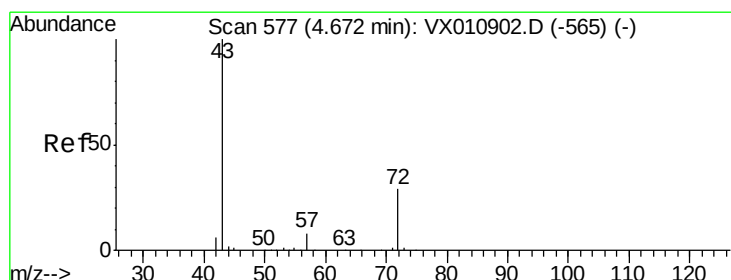
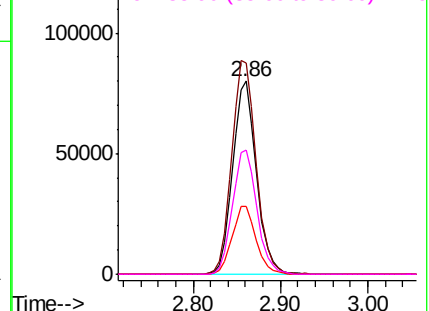


Abundance Ion 83.90 (83.60 to 84.60): VX0

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



#25

2-Butanone

Concen: 2.047 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011103.D

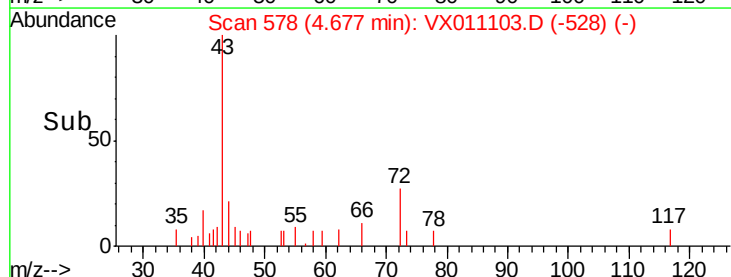
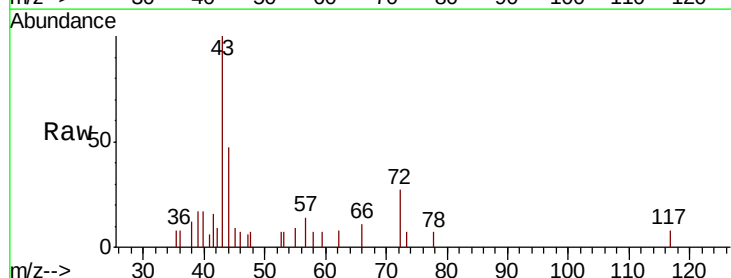
Acq: 26 Jul 2019 20:06

Tgt Ion: 43 Resp: 2741

Ion Ratio Lower Upper

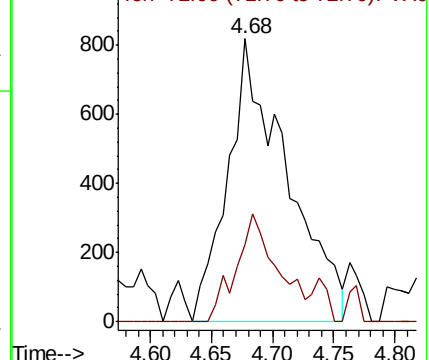
43 100

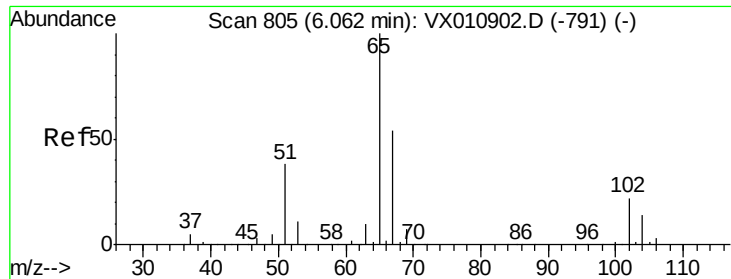
72 27.1 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

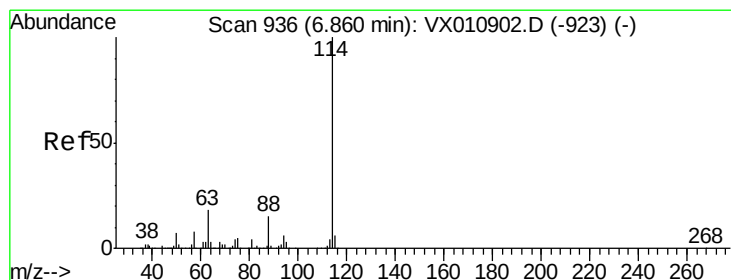
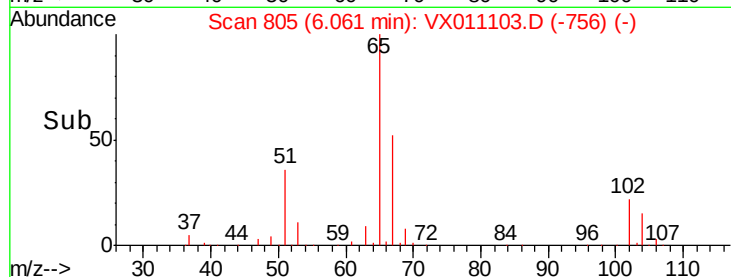
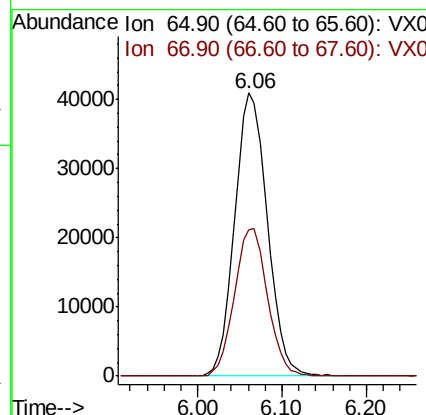
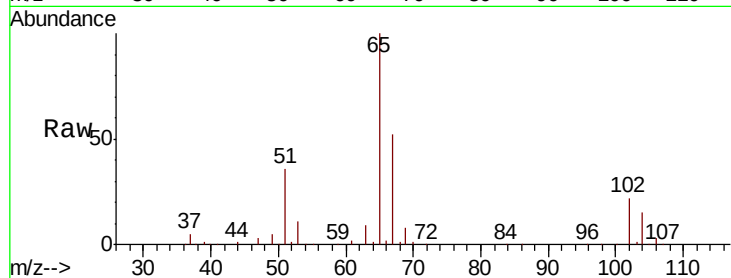




#33
 1,2-Dichloroethane-d4
 Concen: 52.156 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX011103.D
 Acq: 26 Jul 2019 20:06

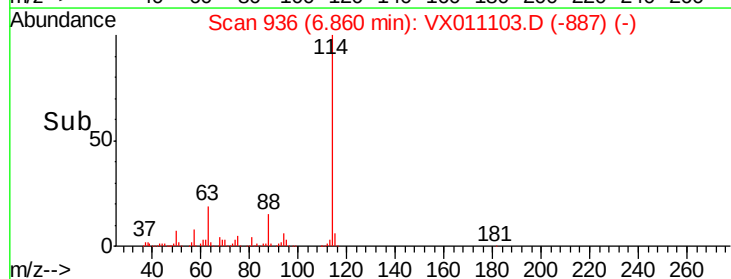
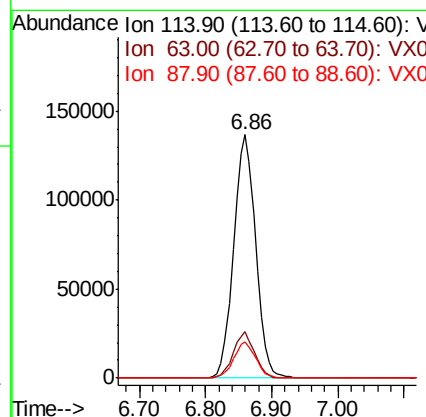
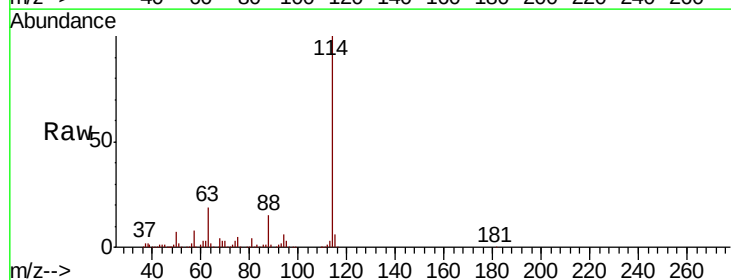
Instrument :
 MSVOA_X
 ClientSampleId :
 PB121723ZHE#09

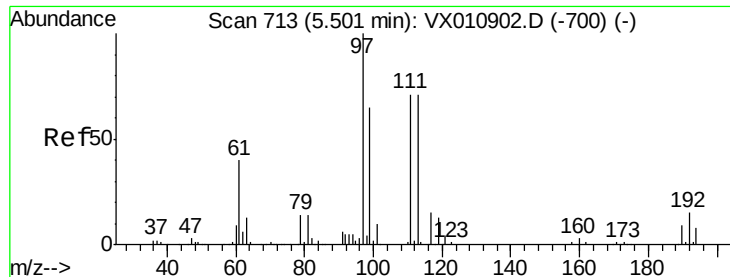
Tot Ion: 65 Resp: 107735
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX011103.D
 Acq: 26 Jul 2019 20:06

Tgt Ion: 114 Resp: 314223
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 35.6
 88 14.7 0.0 29.8





#35

Dibromofluoromethane

Concen: 49.596 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011103.D

Acq: 26 Jul 2019 20:06

Instrument :

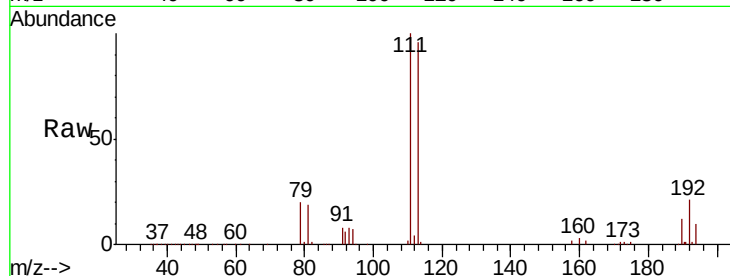
MSVOA_X

ClientSampleId :

PB121723ZHE#09

Tot Ion:113 Resp: 98917

Ion	Ratio	Lower	Upper
113	100		
111	100.8	82.3	123.5
192	21.9	17.4	26.2

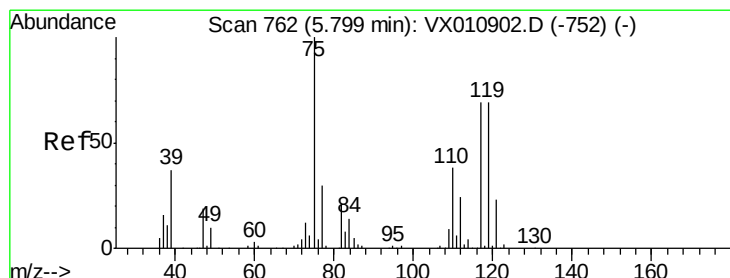
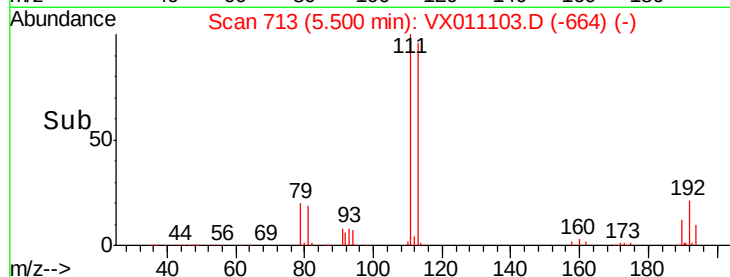
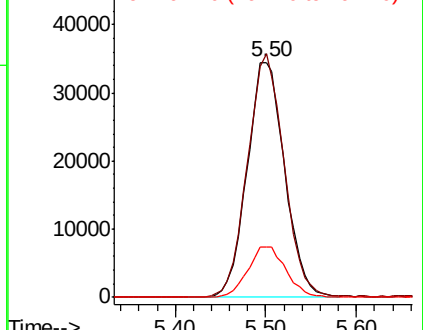


Abundance

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: 5.113 ug/l

RT: 5.66 min Scan# 739

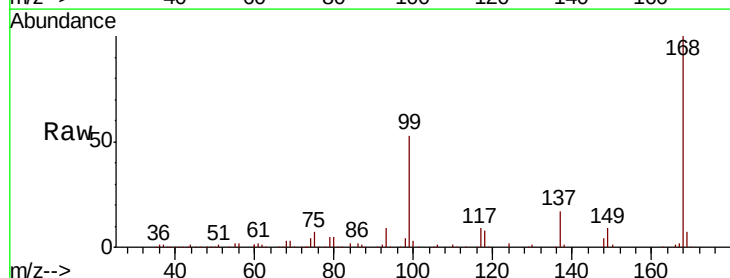
Delta R.T. -0.14 min

Lab File: VX011103.D

Acq: 26 Jul 2019 20:06

Tgt Ion: 75 Resp: 13196

Ion	Ratio	Lower	Upper
75	100		
110	9.9	19.9	59.7#
77	0.2	25.0	37.4#

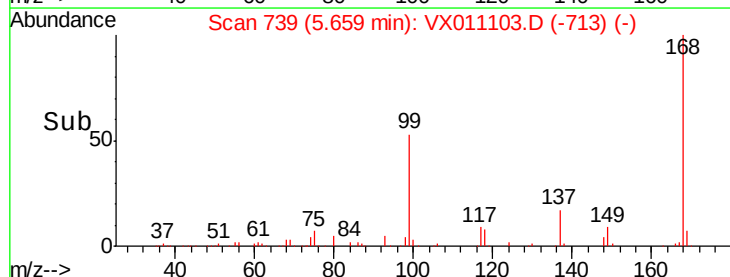
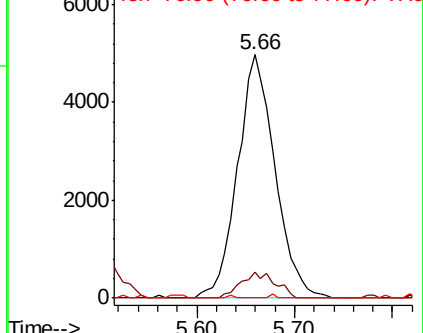


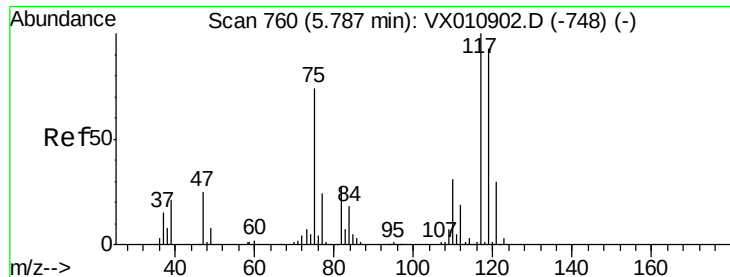
Abundance

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

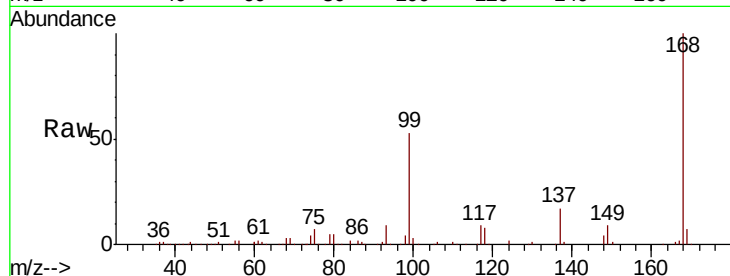




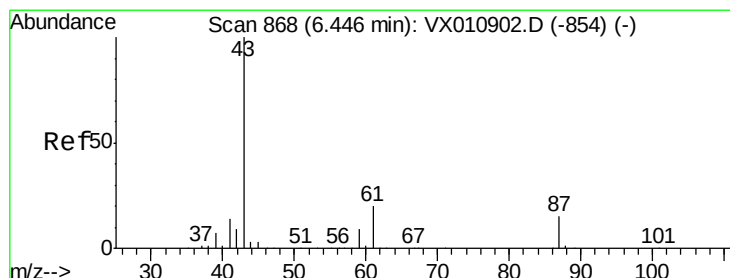
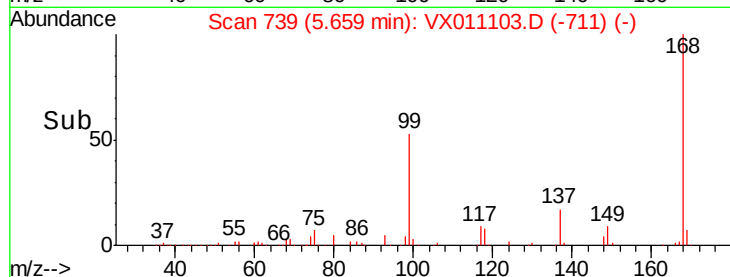
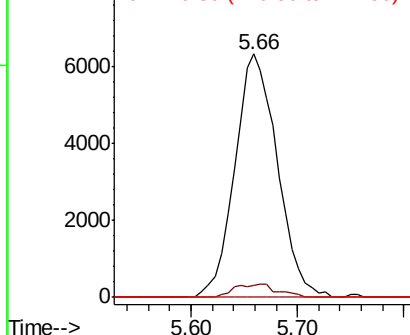
#38
Carbon Tetrachloride
Concen: 6.570 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.13 min
Lab File: VX011103.D
Acq: 26 Jul 2019 20:06

Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#09

Tot Ion:117 Resp: 17670
Ion Ratio Lower Upper
117 100
119 4.8 74.2 111.2#
121 0.0 24.2 36.2#

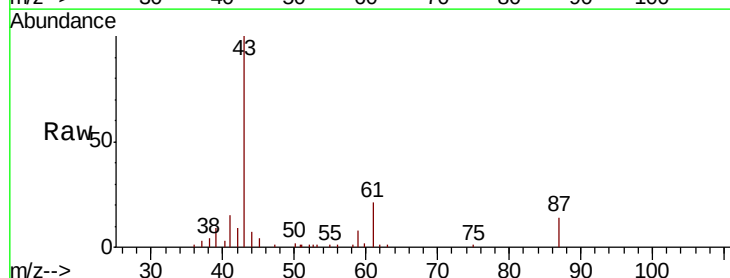


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

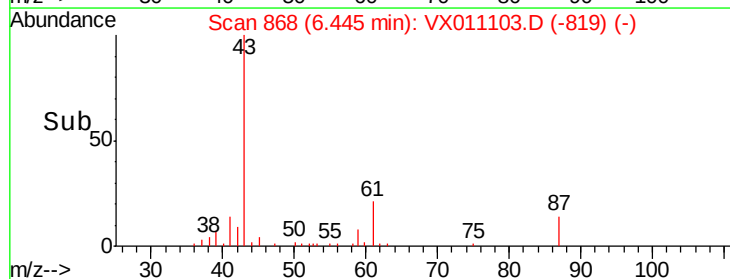
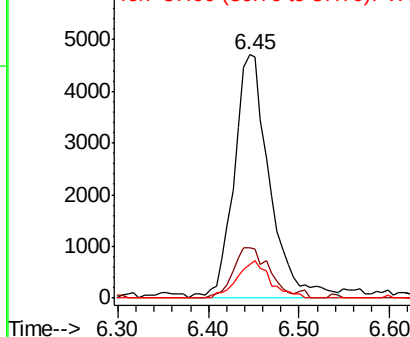


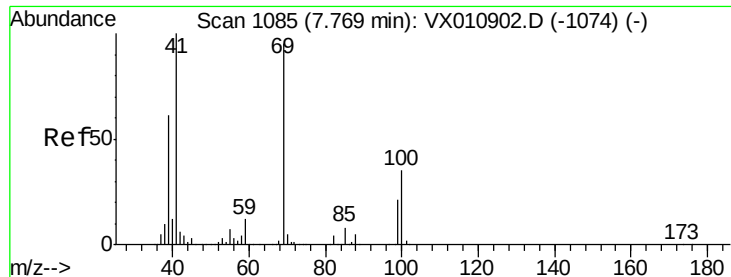
#43
Isopropyl Acetate
Concen: 2.937 ug/l
RT: 6.45 min Scan# 868
Delta R.T. -0.00 min
Lab File: VX011103.D
Acq: 26 Jul 2019 20:06

Tgt Ion: 43 Resp: 12763
Ion Ratio Lower Upper
43 100
61 21.0 17.1 25.7
87 14.3 12.0 18.0



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 61.00 (60.70 to 61.70): VX0
Ion 87.00 (86.70 to 87.70): VX0

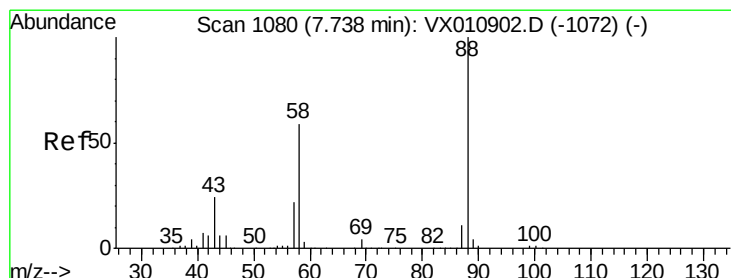
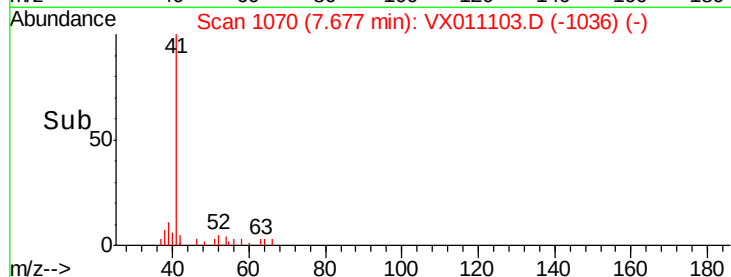
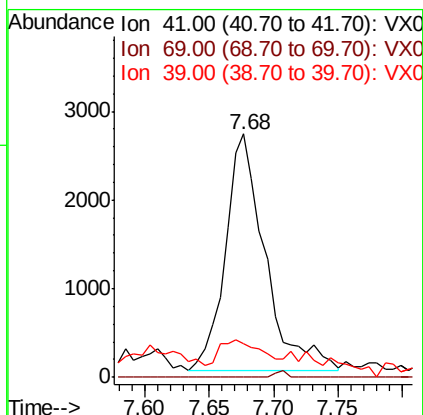
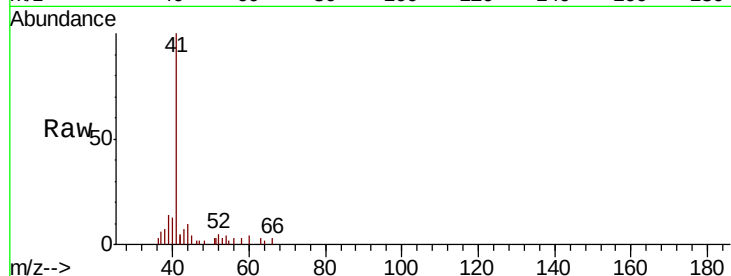




#48
Methvl methacrylate
Concen: 2.702 ug/l
RT: 7.68 min Scan# 1070
Delta R.T. -0.09 min
Lab File: VX011103.D
Acq: 26 Jul 2019 20:06

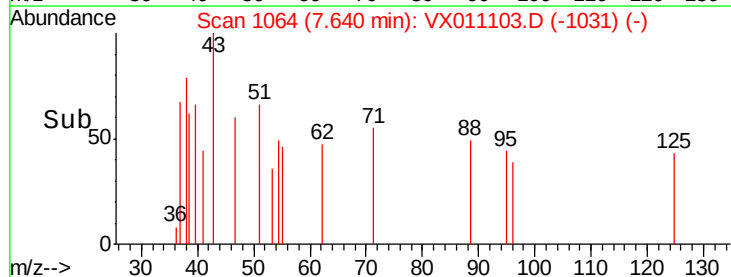
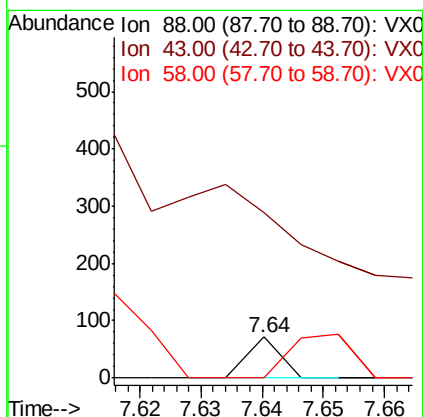
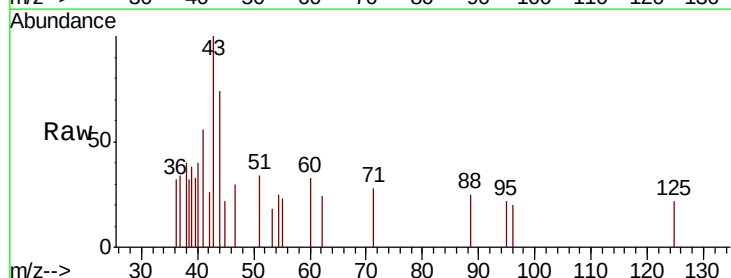
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#09

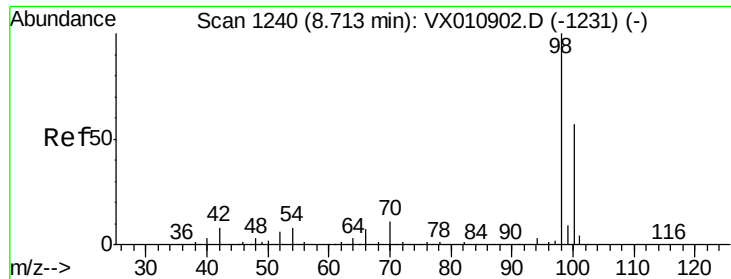
Tot Ion: 41 Resp: 5720
Ion Ratio Lower Upper
41 100
69 0.0 74.4 111.6#
39 0.0 48.9 73.3#



#49
1,4-Dioxane
Concen: 0.439 ug/l
RT: 7.64 min Scan# 1064
Delta R.T. -0.10 min
Lab File: VX011103.D
Acq: 26 Jul 2019 20:06

Tgt Ion: 88 Resp: 26
Ion Ratio Lower Upper
88 100
43 0.0 22.9 34.3#
58 0.0 49.8 74.8#

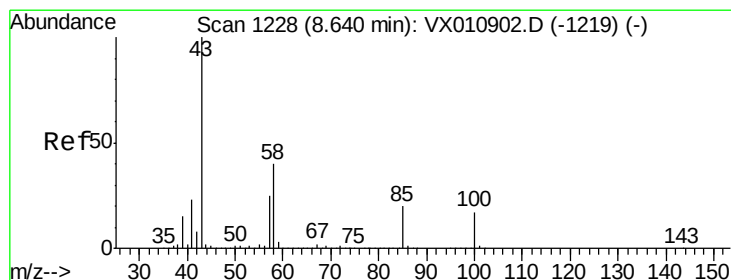
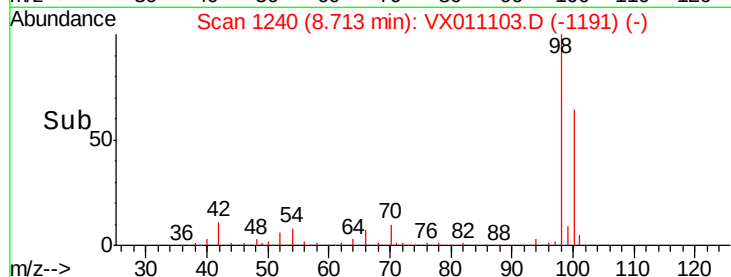
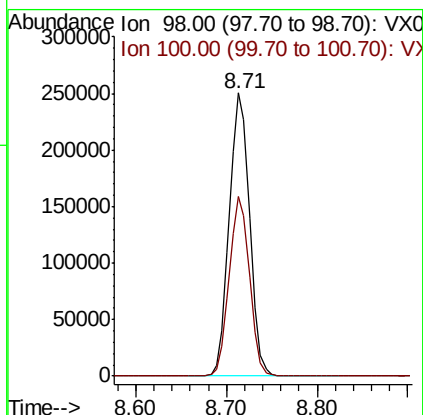
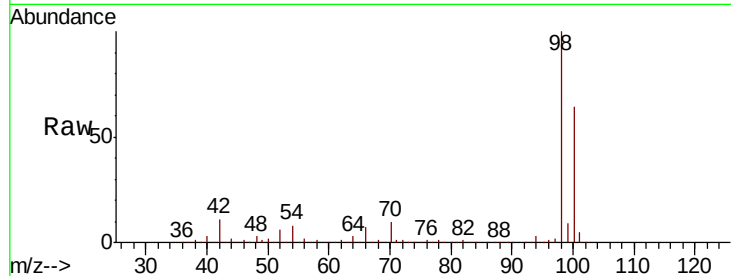




#50
Toluene-d8
Concen: 52.191 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011103.D
Acq: 26 Jul 2019 20:06

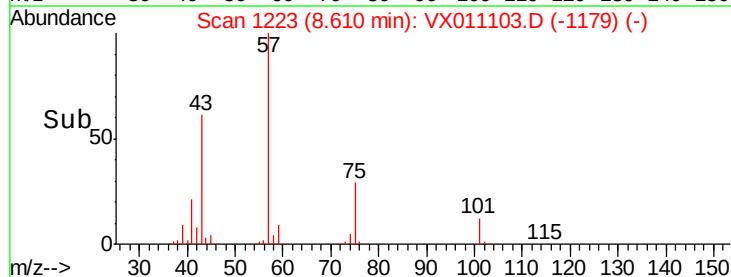
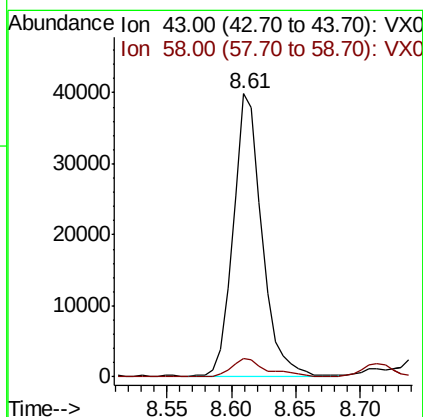
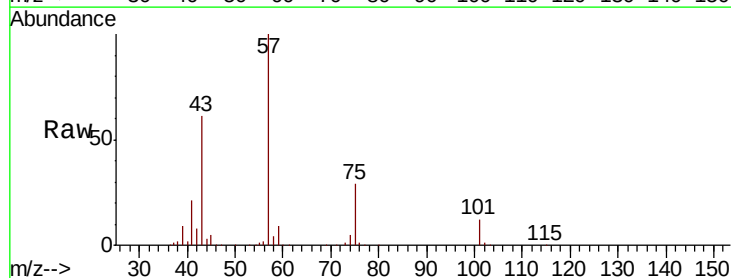
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#09

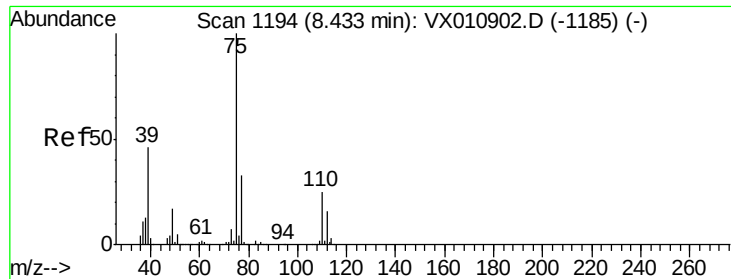
Tot Ion: 98 Resp: 390413
Ion Ratio Lower Upper
98 100
100 63.2 50.6 75.8



#51
4-Methyl-2-Pentanone
Concen: 21.879 ug/l
RT: 8.61 min Scan# 1223
Delta R.T. -0.03 min
Lab File: VX011103.D
Acq: 26 Jul 2019 20:06

Tgt Ion: 43 Resp: 61636
Ion Ratio Lower Upper
43 100
58 7.9 32.2 48.4#





#54

cis-1,3-Dichloropropene

Concen: 9.891 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX011103.D

Acq: 26 Jul 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#09

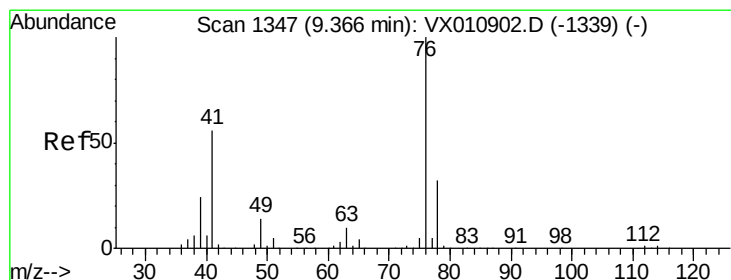
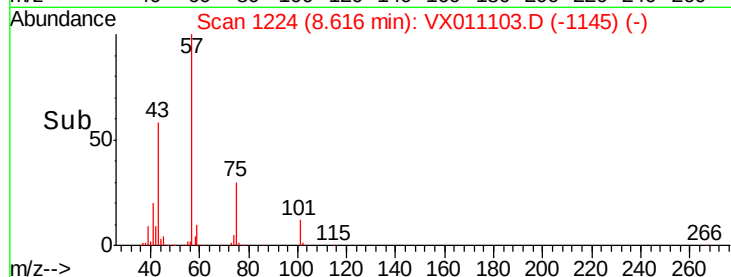
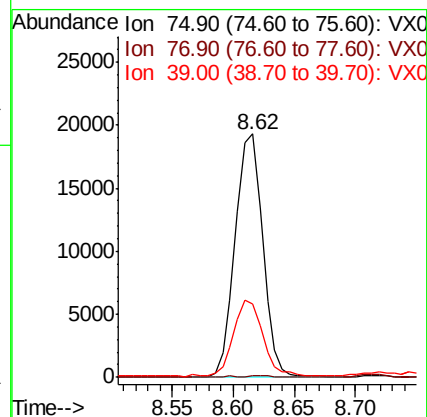
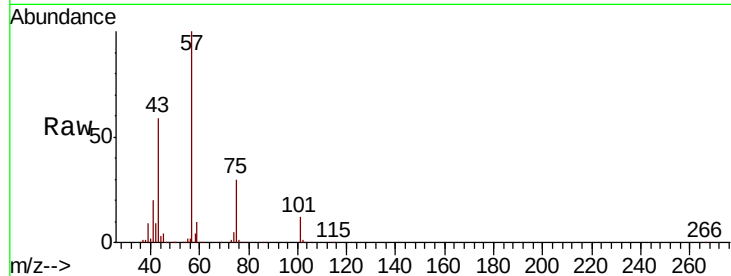
Tot Ion: 75 Resp: 30290

Ion Ratio Lower Upper

75 100

77 0.3 26.1 39.1#

39 29.2 36.6 54.8#



#57

1,3-Dichloropropane

Concen: 2.165 ug/l

RT: 9.54 min Scan# 1375

Delta R.T. 0.17 min

Lab File: VX011103.D

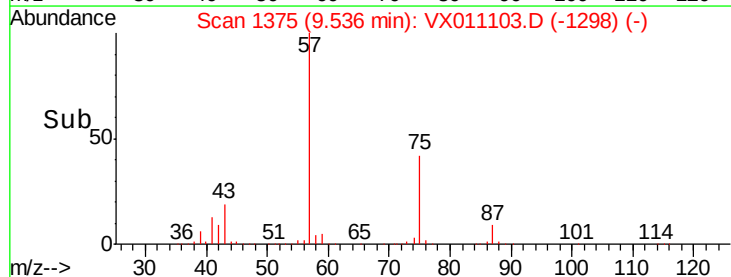
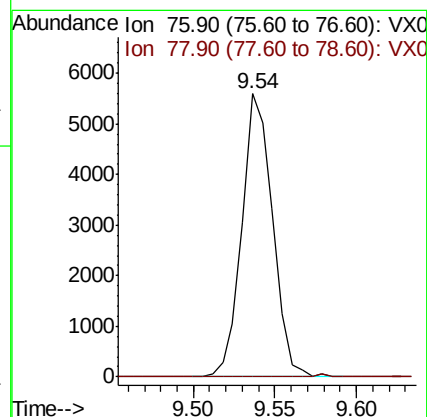
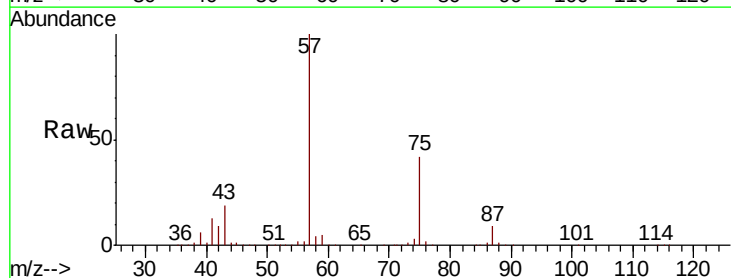
Acq: 26 Jul 2019 20:06

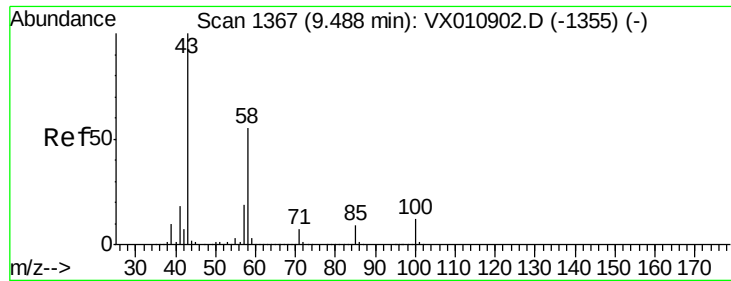
Tgt Ion: 76 Resp: 7346

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#

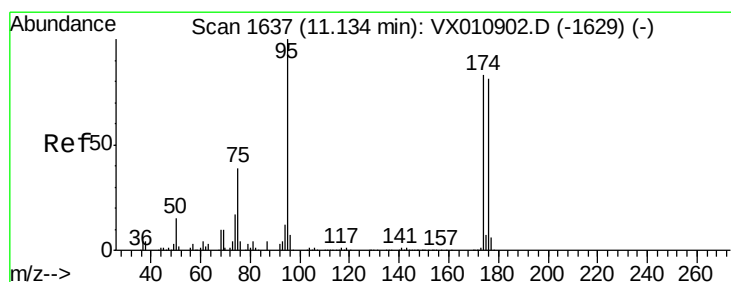
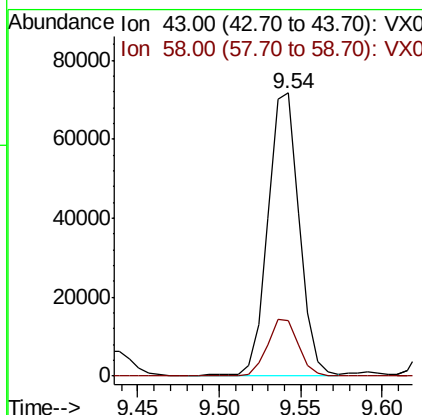
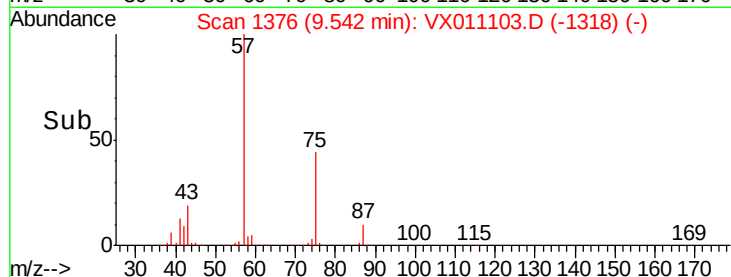
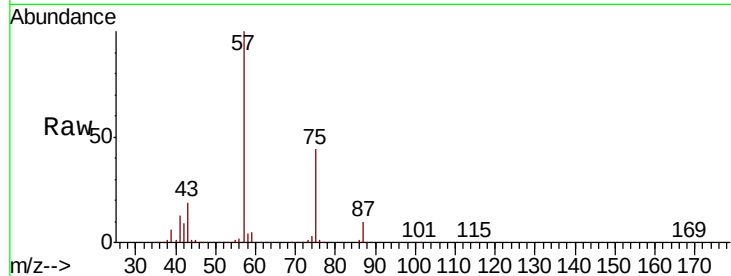




#59
2-Hexanone
Concen: 43.207 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX011103.D
Acq: 26 Jul 2019 20:06

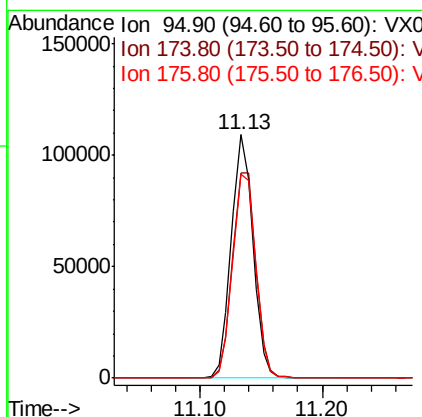
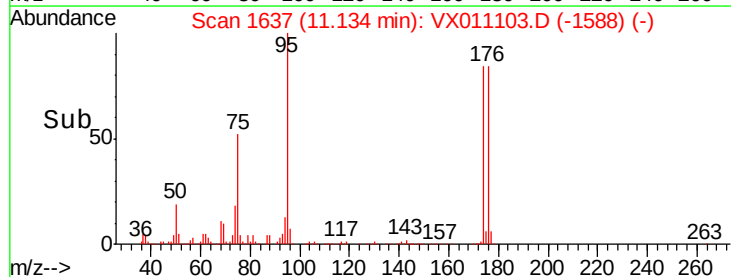
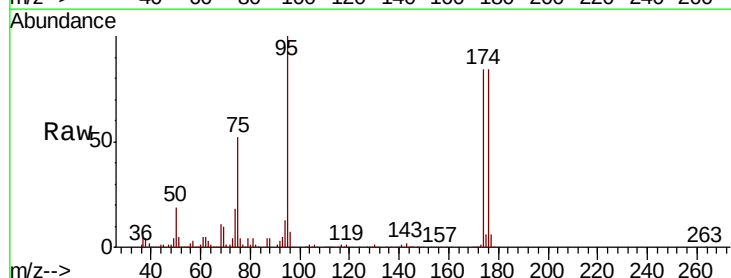
Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#09

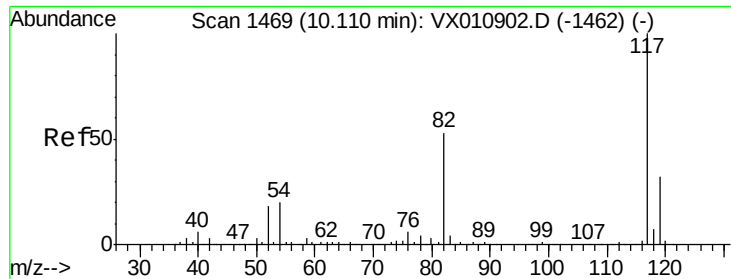
Tot Ion: 43 Resp: 94406
Ion Ratio Lower Upper
43 100
58 20.7 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 48.612 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011103.D
Acq: 26 Jul 2019 20:06

Tgt Ion: 95 Resp: 133662
Ion Ratio Lower Upper
95 100
174 90.7 0.0 180.6
176 89.3 0.0 173.8

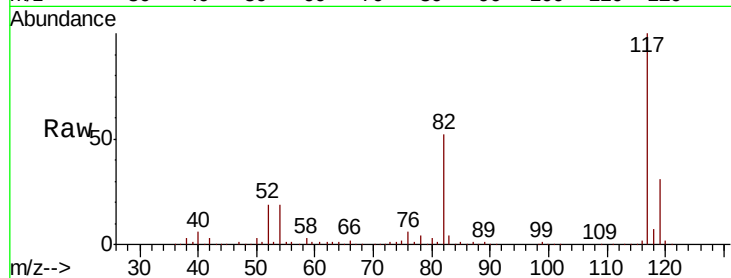




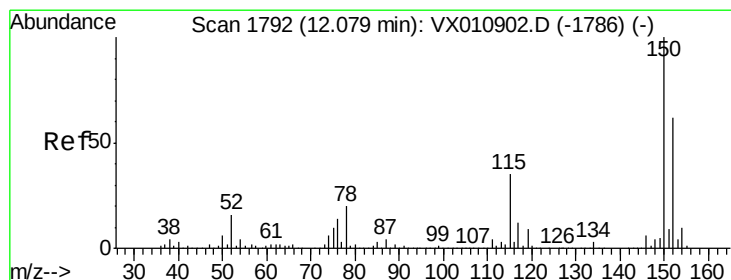
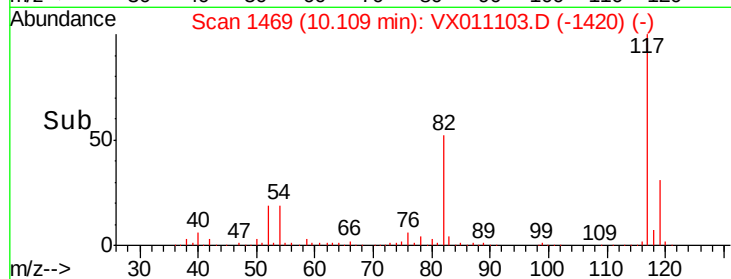
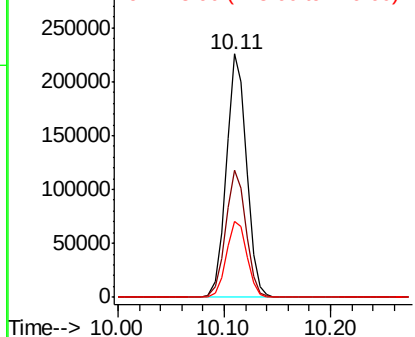
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011103.D
Acq: 26 Jul 2019 20:06

Instrument :
MSVOA_X
ClientSampleId :
PB121723ZHE#09

Tot Ion:117 Resp: 299742
Ion Ratio Lower Upper
117 100
82 52.2 42.6 63.8
119 31.0 25.9 38.9

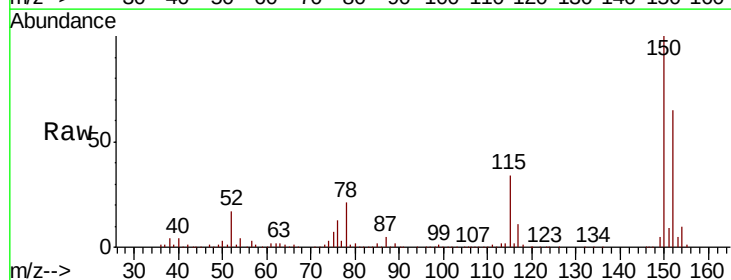


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

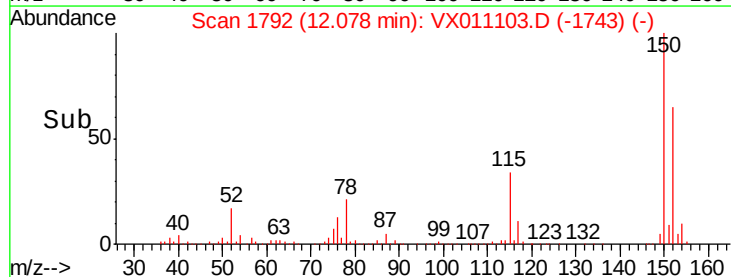
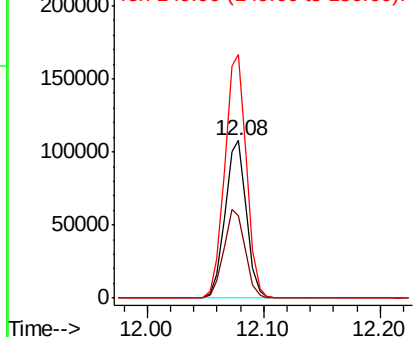


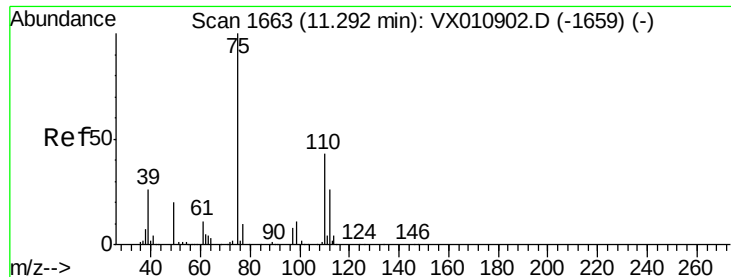
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011103.D
Acq: 26 Jul 2019 20:06

Tgt Ion:152 Resp: 135562
Ion Ratio Lower Upper
152 100
115 56.4 39.7 119.1
150 157.1 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: 27.926 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011103.D

Acq: 26 Jul 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

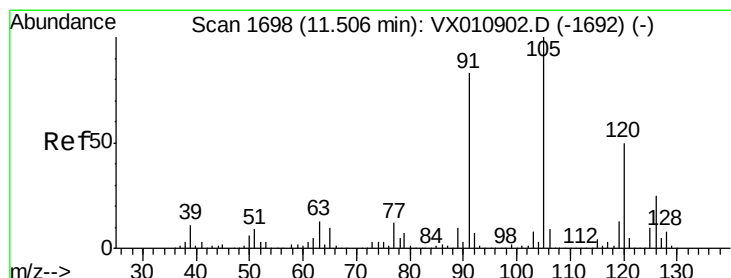
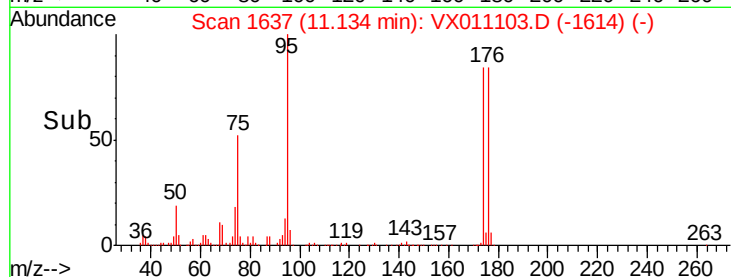
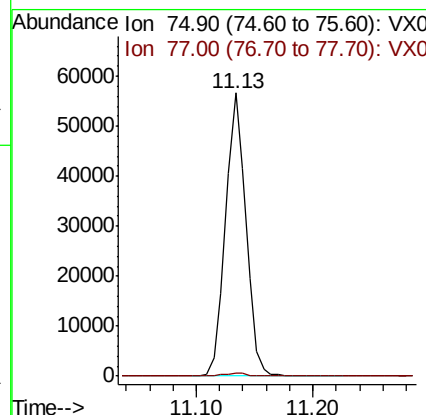
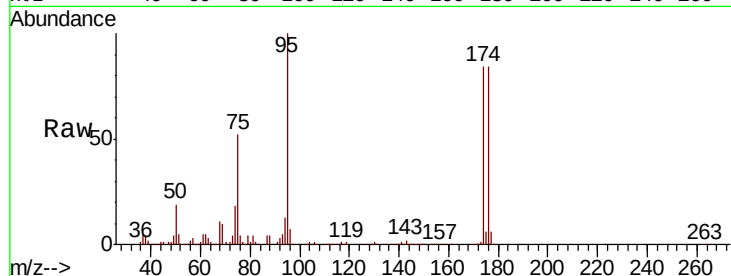
PB121723ZHE#09

Tot Ion: 75 Resp: 68314

Ion Ratio Lower Upper

75 100

77 1.1 21.3 64.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.595 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX011103.D

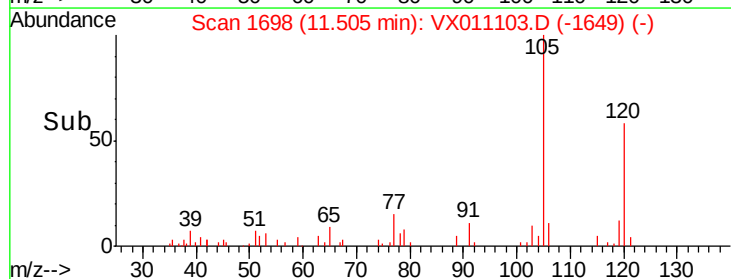
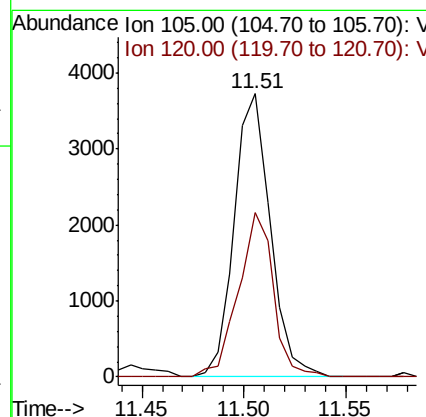
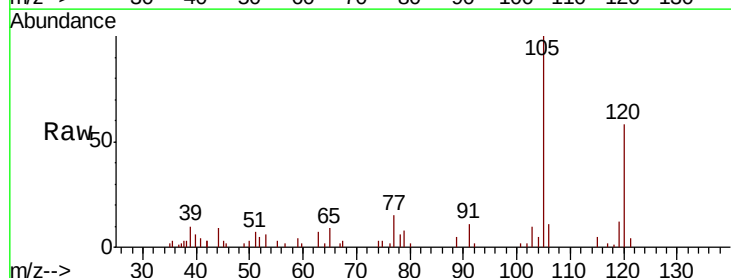
Acq: 26 Jul 2019 20:06

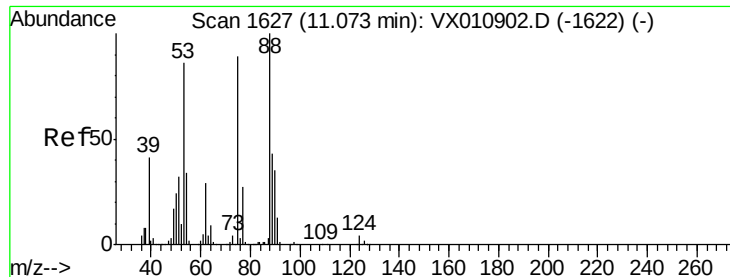
Tgt Ion: 105 Resp: 4556

Ion Ratio Lower Upper

105 100

120 56.3 24.6 73.8





#81

trans-1,4-Dichloro-2-butene

Concen: 69.099 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011103.D

Acq: 26 Jul 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

PB121723ZHE#09

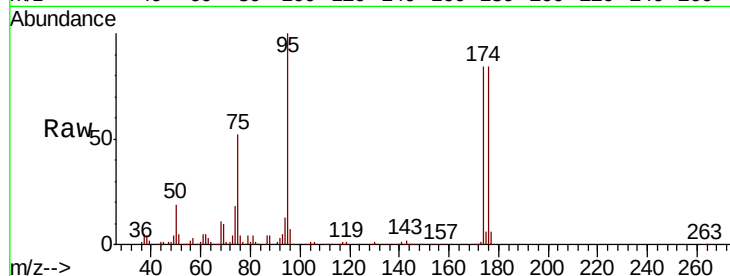
Tot Ion: 75 Resp: 68314

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

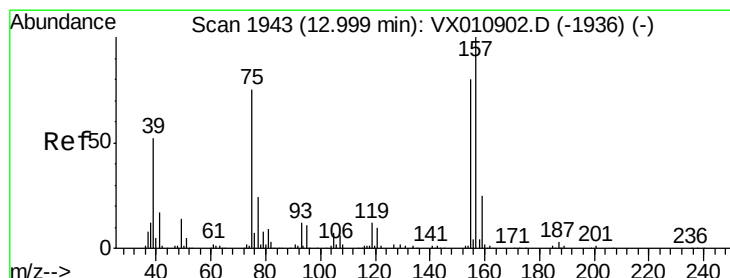
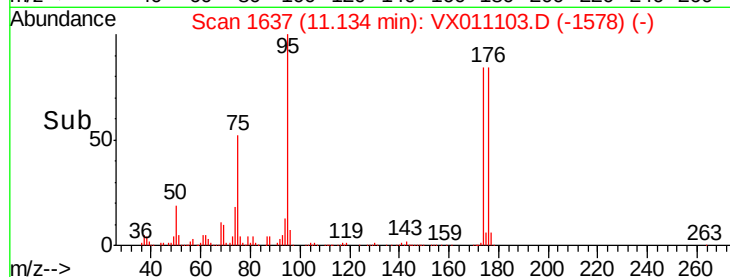
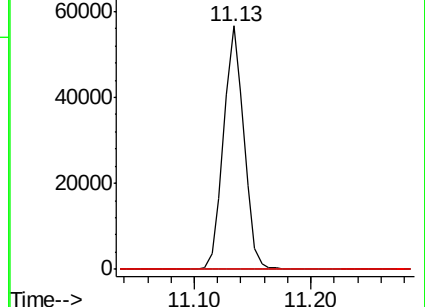
89 0.0 38.5 57.7#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.361 ug/l

RT: 12.97 min Scan# 1938

Delta R.T. -0.03 min

Lab File: VX011103.D

Acq: 26 Jul 2019 20:06

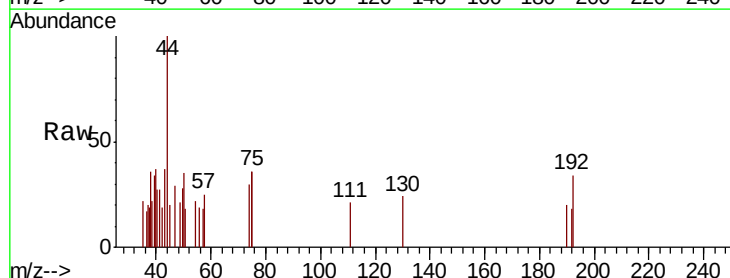
Tgt Ion: 75 Resp: 226

Ion Ratio Lower Upper

75 100

155 0.0 48.7 146.1#

157 0.0 62.5 187.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

