

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX121020\
 Data File : VX019816.D
 Acq On : 10 Dec 2020 11:38
 Operator : JC/MD
 Sample : L4993-08DL 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TU032-32-5225-120820DL

Quant Time: Dec 11 00:49:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X120420W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 04 15:32:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	322119	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	531787	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.09	117	478457	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	209981	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		6.03	65	202239	47.77	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	95.54%	
35) Dibromofluoromethane		5.46	113	163524	47.58	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	95.16%	
50) Toluene-d8		8.70	98	636649	48.52	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	97.04%	
62) 4-Bromofluorobenzene		11.12	95	224728	45.00	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	90.00%	

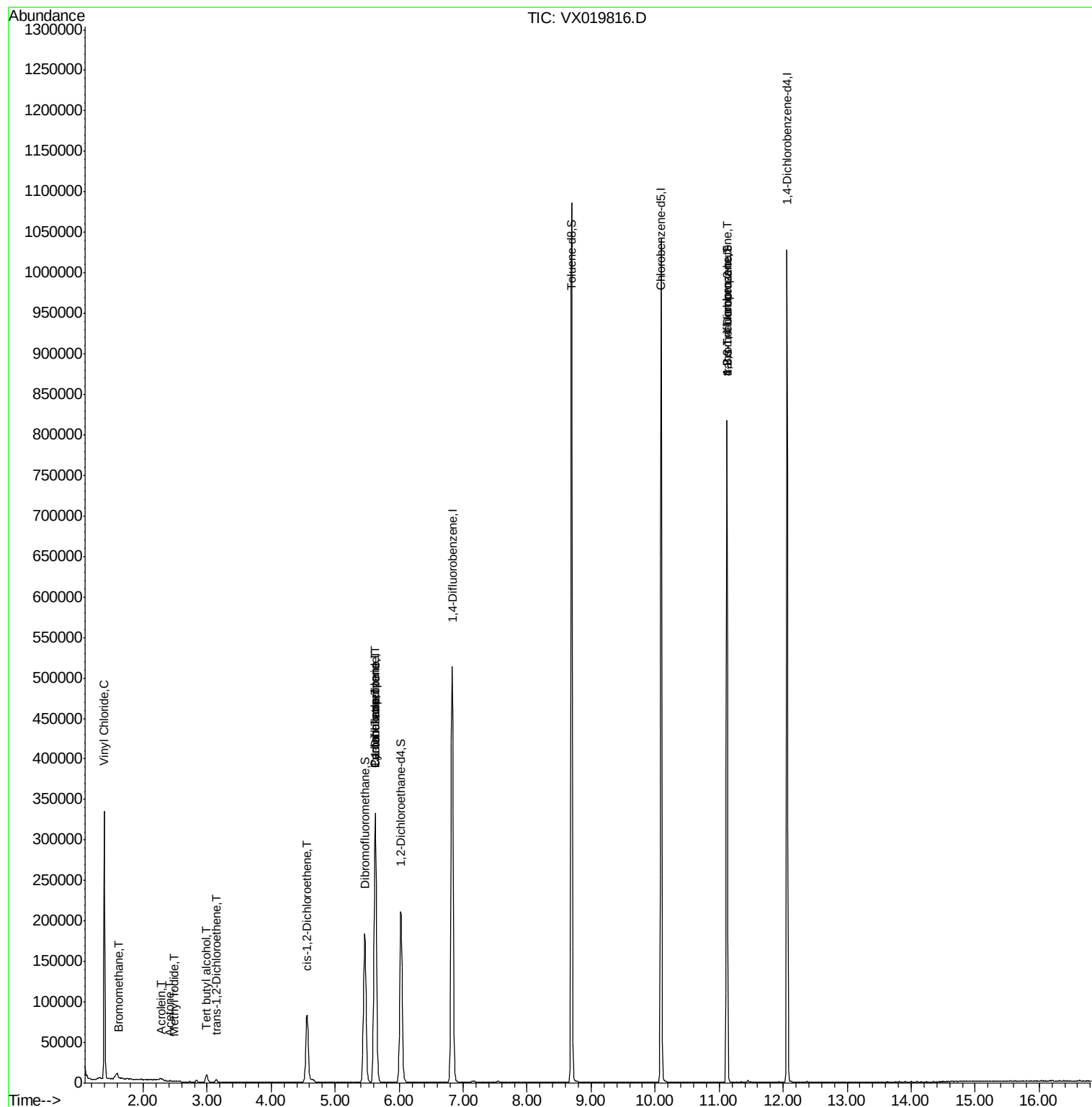
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.39	62	192154	52.543	ug/l	99
5) Bromomethane	1.63	94	856	0.705	ug/l	89
10) Methyl Iodide	2.49	142	1346	0.313	ug/l #	94
11) Tert butyl alcohol	3.00	59	5911	4.222	ug/l #	76
13) Acrolein	2.28	56	176	0.377	ug/l #	14
16) Acetone	2.42	43	892	0.561	ug/l #	88
20) Methylene Chloride	2.83	84	861	Below Cal		93
21) trans-1,2-Dichloroethene	3.14	96	1599	0.465	ug/l	90
27) cis-1,2-Dichloroethene	4.56	96	54912	13.637	ug/l	91
31) Cyclohexane	5.62	56	5931	1.126	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	24360	5.069	ug/l #	49
38) Carbon Tetrachloride	5.62	117	31581	6.711	ug/l #	16
76) 1,2,3-Trichloropropane	11.12	75	107471	22.820	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.12	75	107471	65.968	ug/l #	12

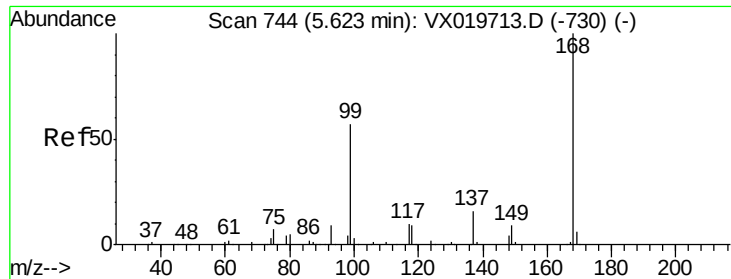
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.01 min

Lab File: VX019816.D

Acq: 10 Dec 2020 11:38

Instrument :

MSVOA_X

ClientSampleId :

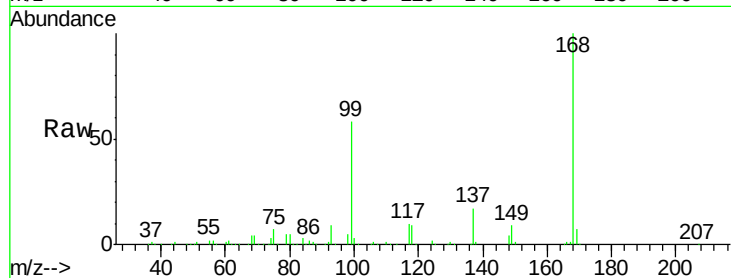
TU032-32-5225-120820DL

Tgt Ion:168 Resp: 322119

Ion Ratio Lower Upper

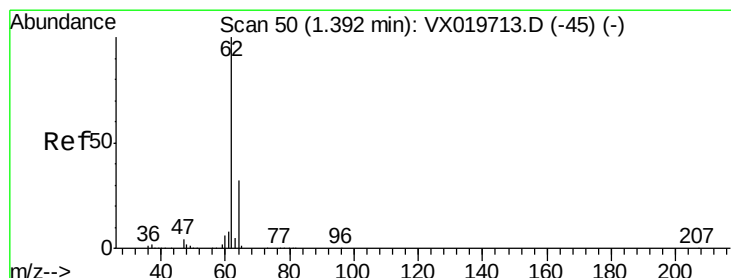
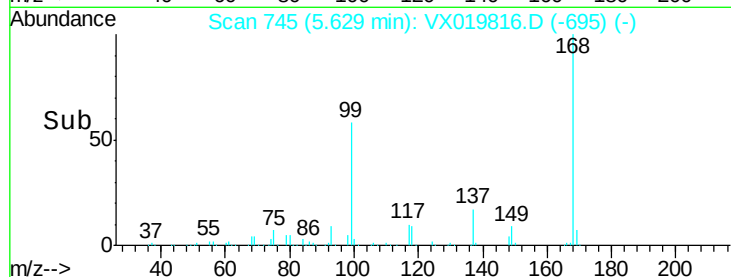
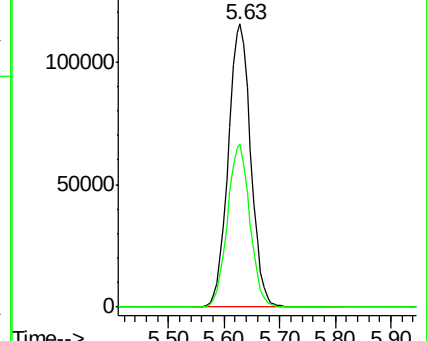
168 100

99 57.8 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#4

Vinyl Chloride

Concen: 52.543 ug/l

RT: 1.39 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX019816.D

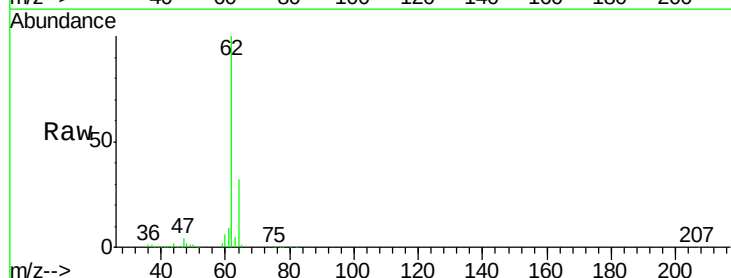
Acq: 10 Dec 2020 11:38

Tgt Ion: 62 Resp: 192154

Ion Ratio Lower Upper

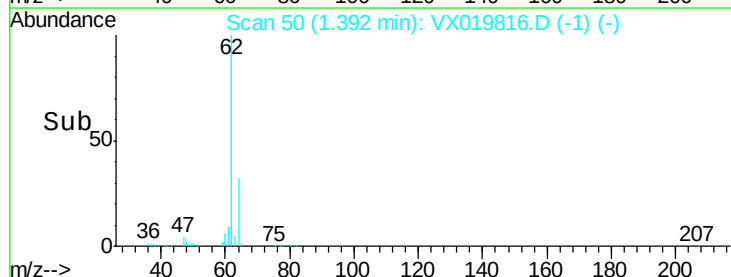
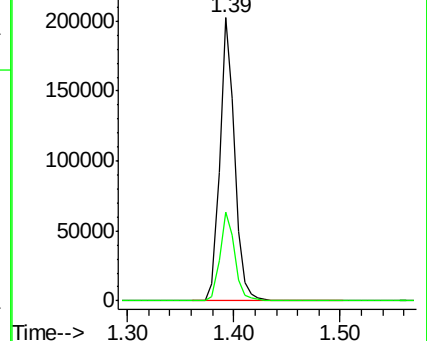
62 100

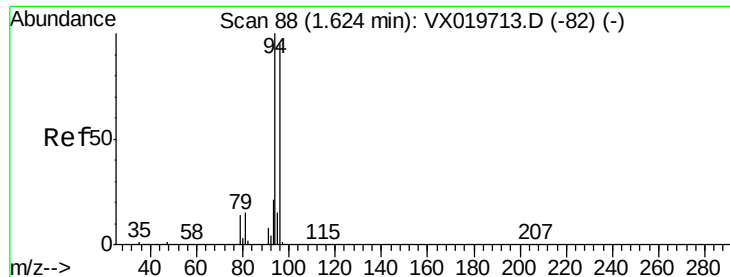
64 31.6 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.705 ug/l

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX019816.D

Acq: 10 Dec 2020 11:38

Instrument :

MSVOA_X

ClientSampleId :

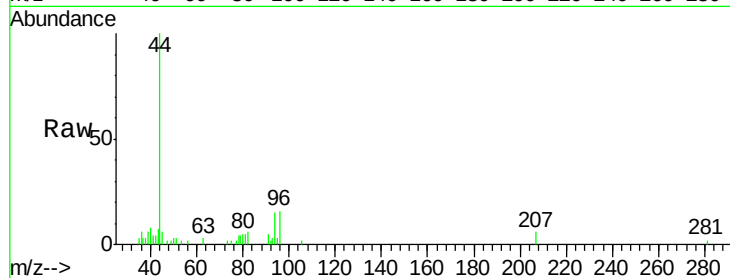
TU032-32-5225-120820DL

Tgt Ion: 94 Resp: 856

Ion Ratio Lower Upper

94 100

96 105.9 76.4 114.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

400

300

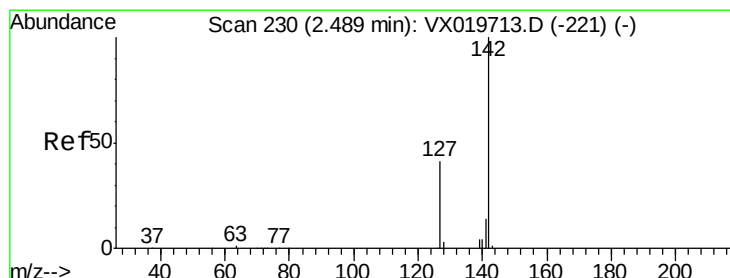
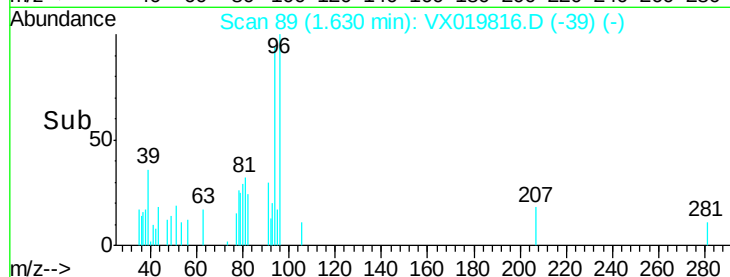
200

100

0

1.55 1.60 1.65 1.70

Time-->



#10

Methyl Iodide

Concen: 0.313 ug/l

RT: 2.49 min Scan# 230

Delta R.T. -0.00 min

Lab File: VX019816.D

Acq: 10 Dec 2020 11:38

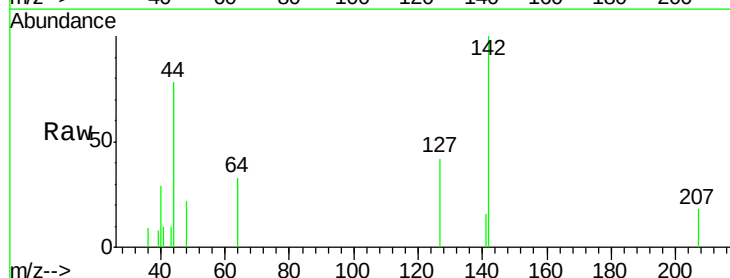
Tgt Ion: 142 Resp: 1346

Ion Ratio Lower Upper

142 100

127 43.5 33.3 49.9

141 8.3 11.4 17.0#



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

2.49

1000

800

600

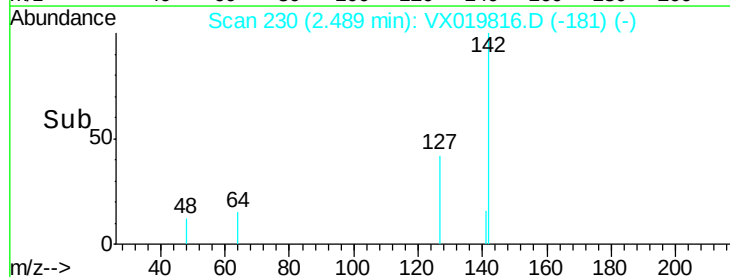
400

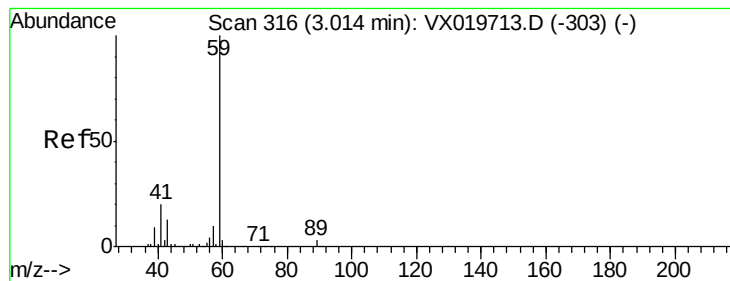
200

0

2.45 2.50 2.55

Time-->





#11

Tert butyl alcohol

Concen: 4.222 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX019816.D

Acq: 10 Dec 2020 11:38

Instrument :

MSVOA_X

ClientSampleId :

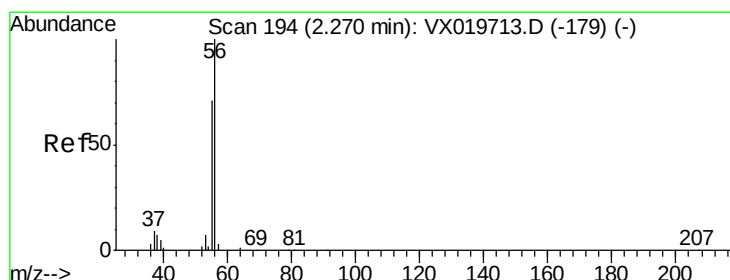
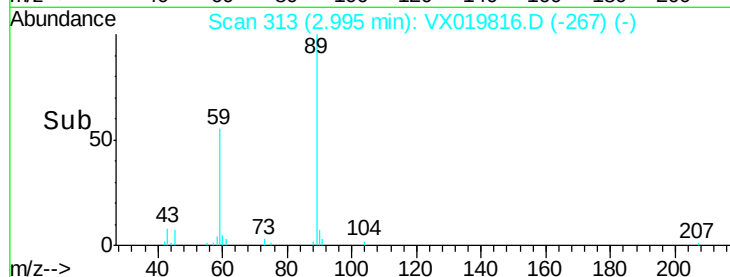
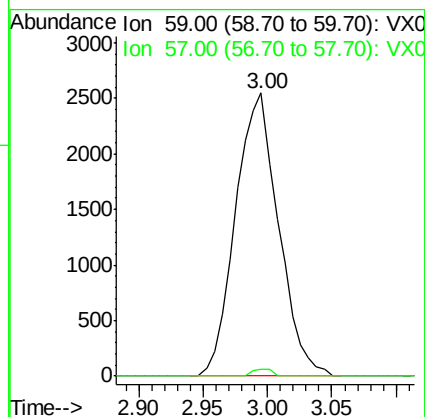
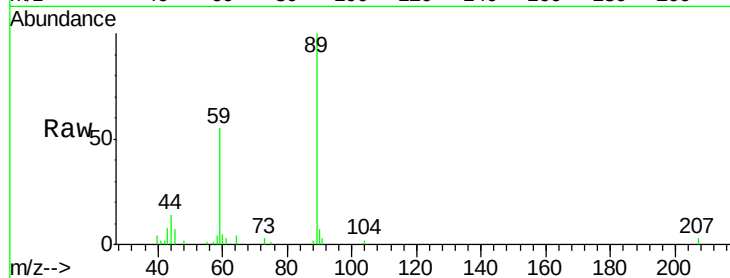
TU032-32-5225-120820DL

Tgt Ion: 59 Resp: 5911

Ion Ratio Lower Upper

59 100

57 1.1 7.8 11.8#



#13

Acrolein

Concen: 0.377 ug/l

RT: 2.28 min Scan# 195

Delta R.T. 0.01 min

Lab File: VX019816.D

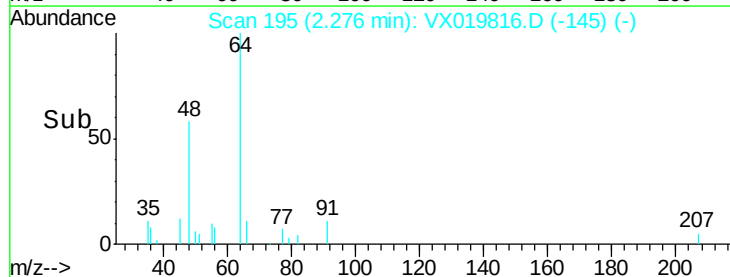
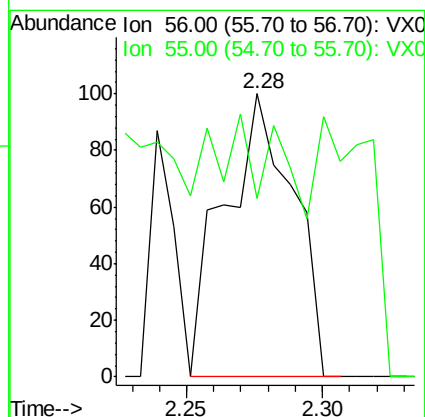
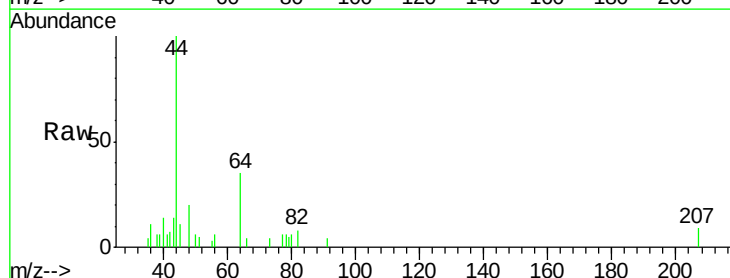
Acq: 10 Dec 2020 11:38

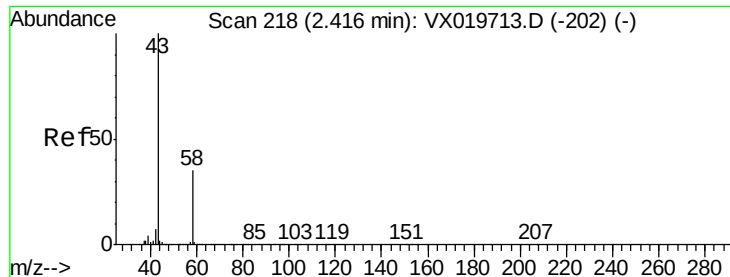
Tgt Ion: 56 Resp: 176

Ion Ratio Lower Upper

56 100

55 0.0 56.4 84.6#





#16

Acetone

Concen: 0.561 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.00 min

Lab File: VX019816.D

Acq: 10 Dec 2020 11:38

Instrument :

MSVOA_X

ClientSampleId :

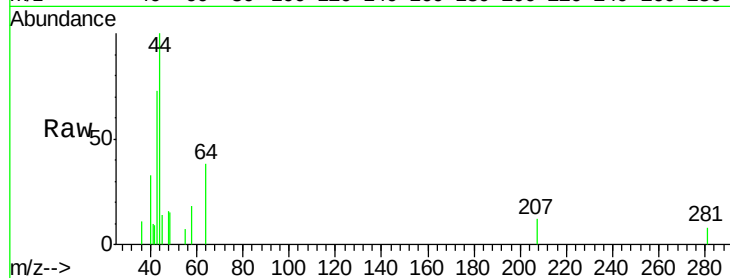
TU032-32-5225-120820DL

Tgt Ion: 43 Resp: 892

Ion Ratio Lower Upper

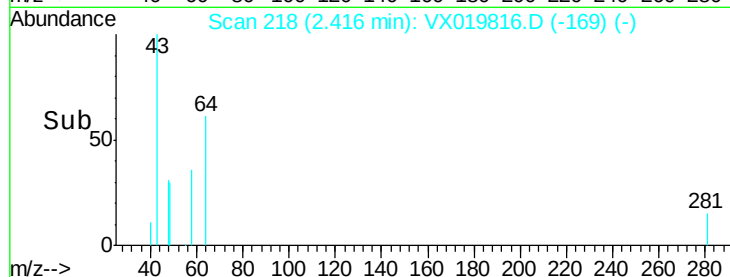
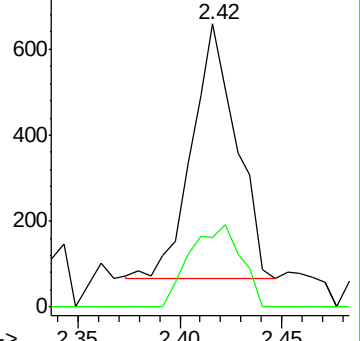
43 100

58 27.6 27.8 41.8#

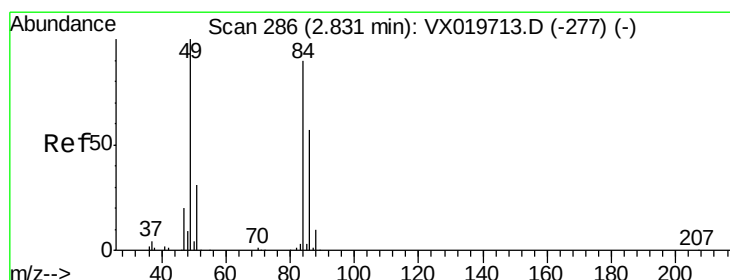


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.83 min Scan# 286

Delta R.T. 0.00 min

Lab File: VX019816.D

Acq: 10 Dec 2020 11:38

Tgt Ion: 84 Resp: 861

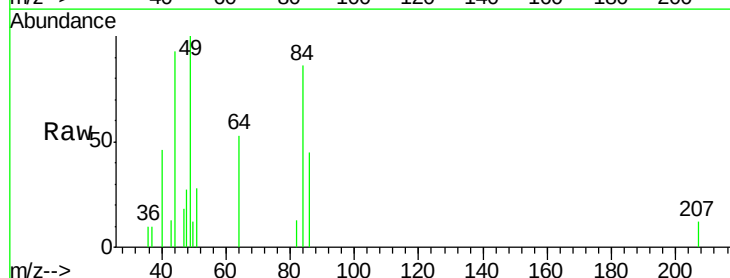
Ion Ratio Lower Upper

84 100

49 116.5 88.6 132.8

51 33.0 27.0 40.6

86 53.0 50.3 75.5

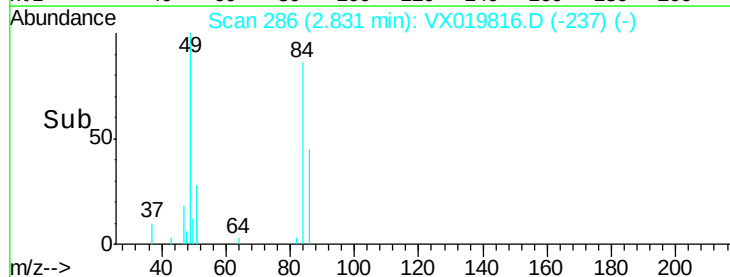
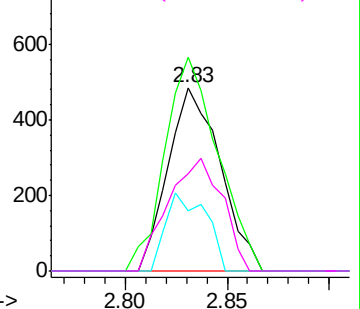


Abundance Ion 83.90 (83.60 to 84.60): VX0

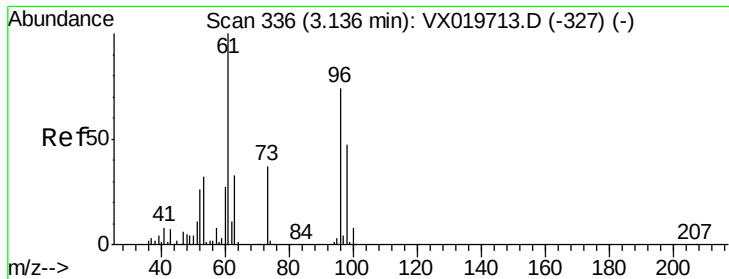
Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.465 ug/l

RT: 3.14 min Scan# 337

Delta R.T. 0.01 min

Lab File: VX019816.D

Acq: 10 Dec 2020 11:38

Instrument :

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ClientSampleId :

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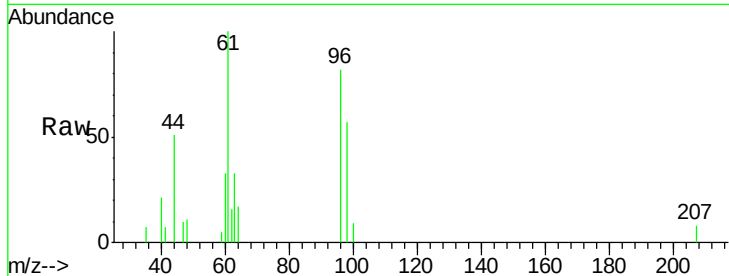
Tgt Ion: 96 Resp: 1599

Ion Ratio Lower Upper

96 100

61 121.6 107.7 161.5

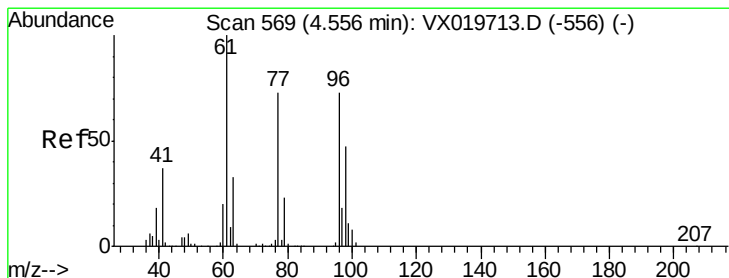
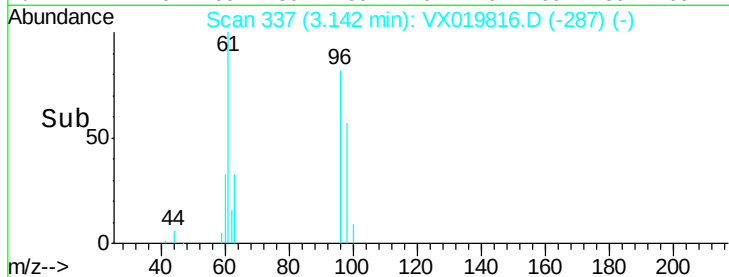
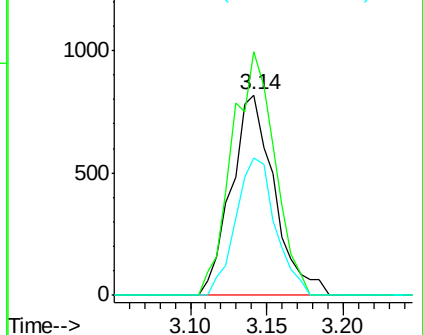
98 68.8 50.4 75.6



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



#27

cis-1,2-Dichloroethene

Concen: 13.637 ug/l

RT: 4.56 min Scan# 570

Delta R.T. 0.01 min

Lab File: VX019816.D

Acq: 10 Dec 2020 11:38

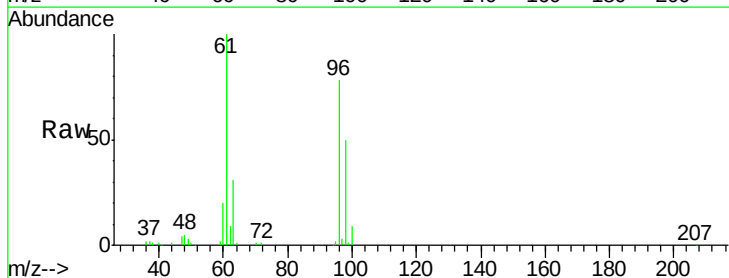
Tgt Ion: 96 Resp: 54912

Ion Ratio Lower Upper

96 100

61 126.6 0.0 285.6

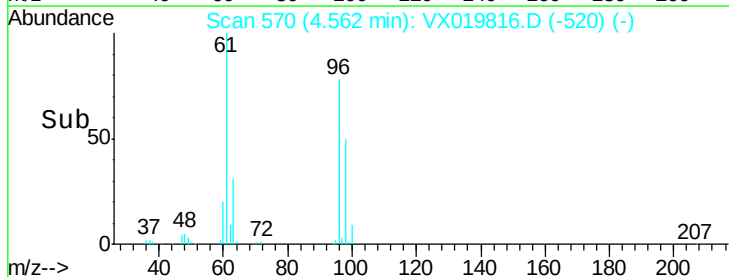
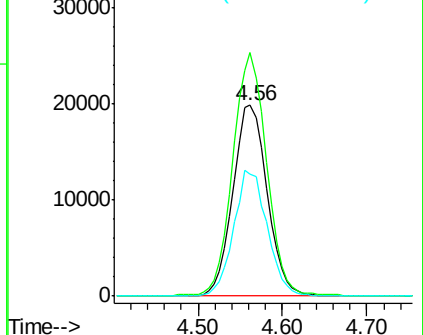
98 64.2 0.0 129.6

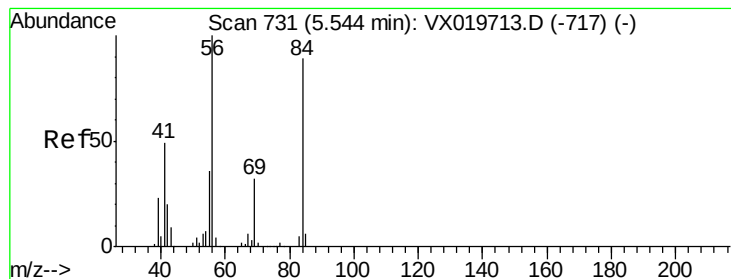


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 1.126 ug/l

RT: 5.62 min Scan# 744

Delta R.T. 0.08 min

Lab File: VX019816.D

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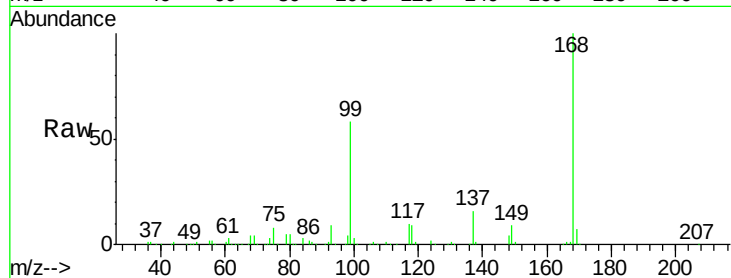
Tgt Ion: 56 Resp: 5931

Ion Ratio Lower Upper

56 100

69 195.2 25.3 37.9#

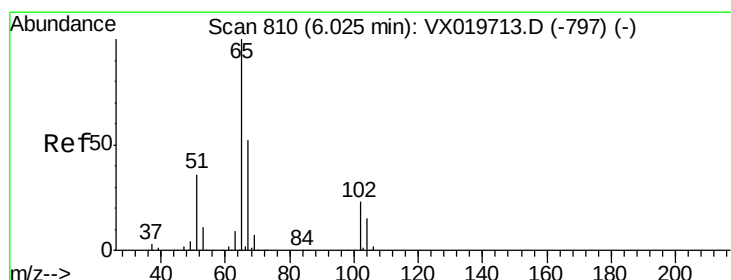
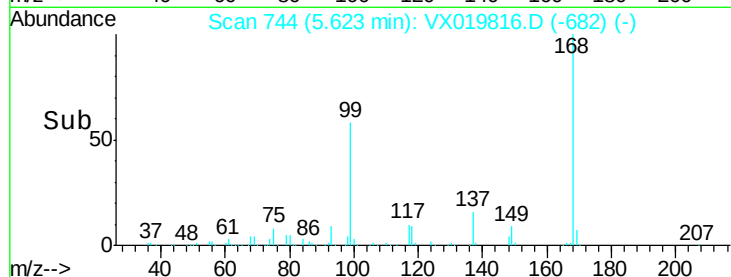
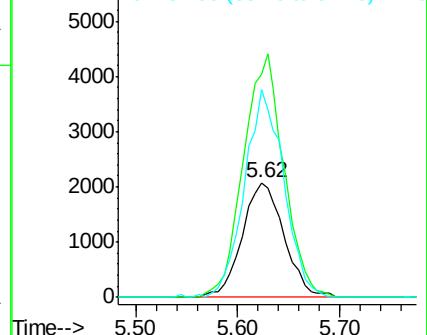
84 181.7 71.4 107.0#



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: 47.770 ug/l

RT: 6.03 min Scan# 810

Delta R.T. -0.00 min

Lab File: VX019816.D

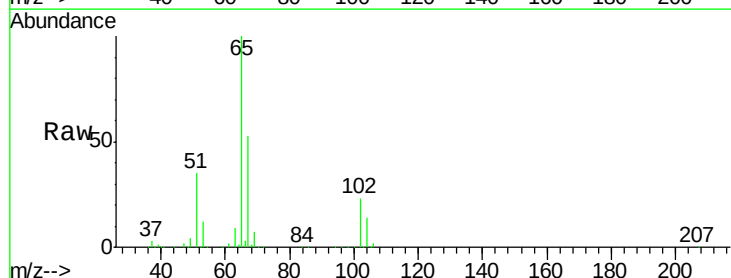
Acq: 10 Dec 2020 11:38

Tgt Ion: 65 Resp: 202239

Ion Ratio Lower Upper

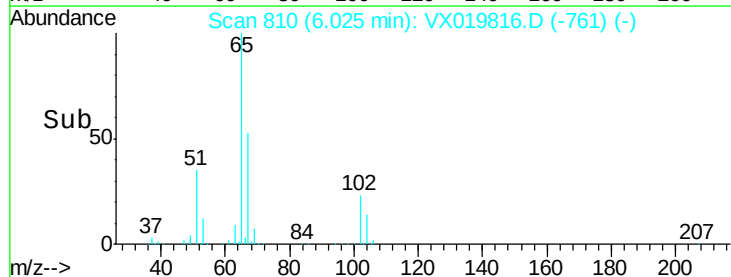
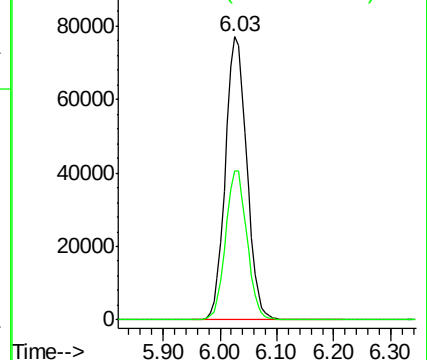
65 100

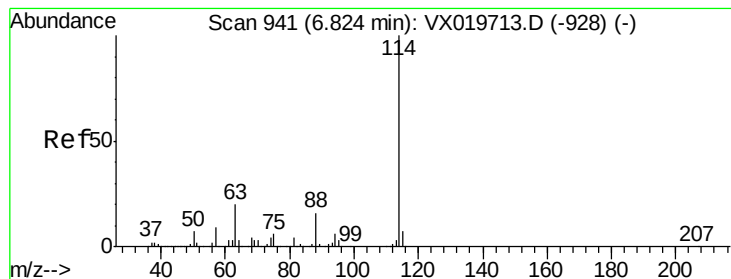
67 52.6 0.0 105.4



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: 6.83 min Scan# 942

Delta R.T. 0.01 min

Lab File: VX019816.D

Acq: 10 Dec 2020 11:38

Instrument :

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ClientSampleId :

TU032-32-5225-120820DL

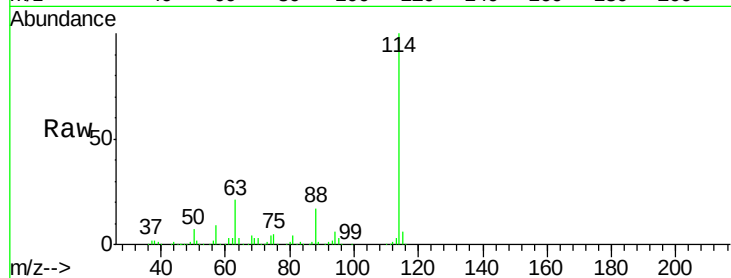
Tgt Ion:114 Resp: 531787

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.8

88 16.7 0.0 32.8



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

6.83

250000

200000

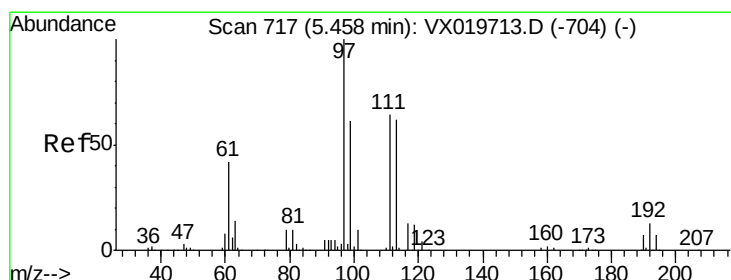
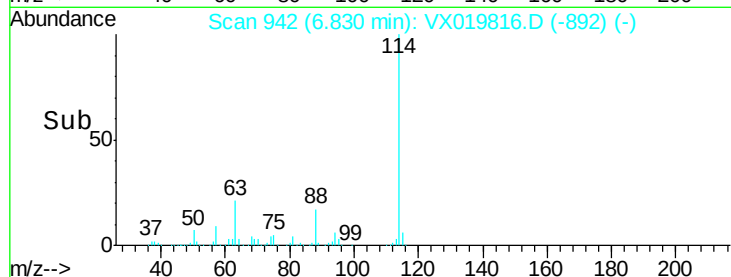
150000

100000

50000

0

Time--> 6.70 6.80 6.90 7.00



#35

Dibromofluoromethane

Concen: 47.579 ug/l

RT: 5.46 min Scan# 718

Delta R.T. 0.01 min

Lab File: VX019816.D

Acq: 10 Dec 2020 11:38

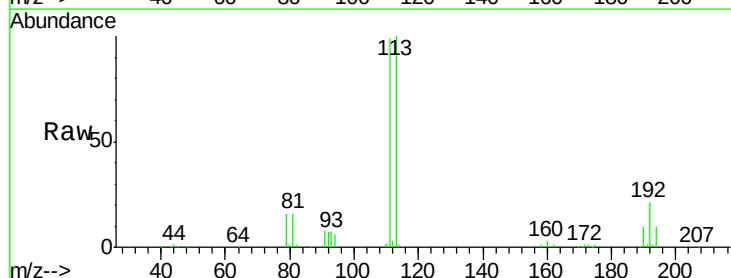
Tgt Ion:113 Resp: 163524

Ion Ratio Lower Upper

113 100

111 102.3 81.9 122.9

192 20.8 16.7 25.1



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

5.46

80000

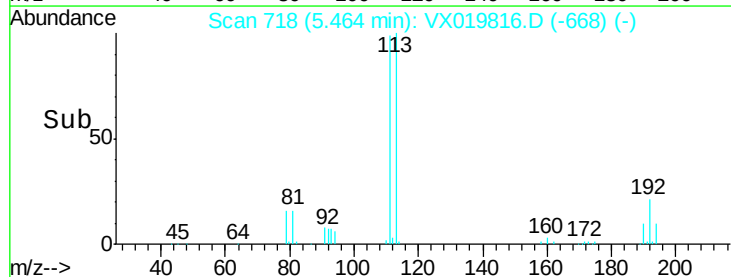
60000

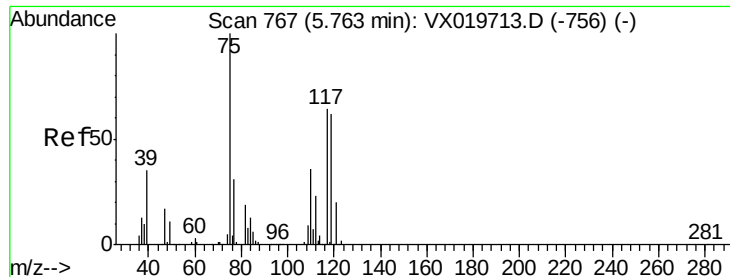
40000

20000

0

Time--> 5.30 5.40 5.50 5.60





#36

1,1-Dichloropropene

Concen: 5.069 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX019816.D

Acq: 10 Dec 2020 11:38

Instrument :

MSVOA_X

ClientSampleId :

TU032-32-5225-120820DL

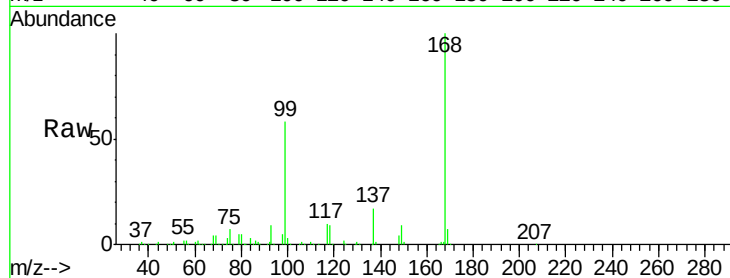
Tgt Ion: 75 Resp: 24360

Ion Ratio Lower Upper

75 100

110 8.9 18.1 54.4#

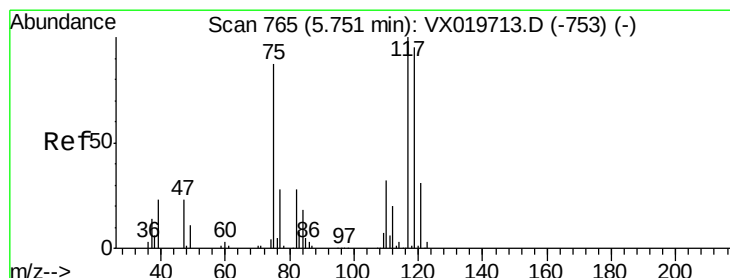
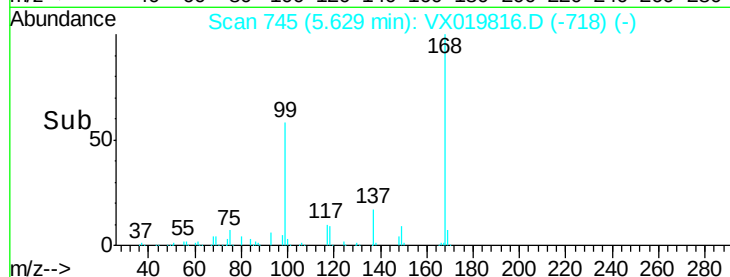
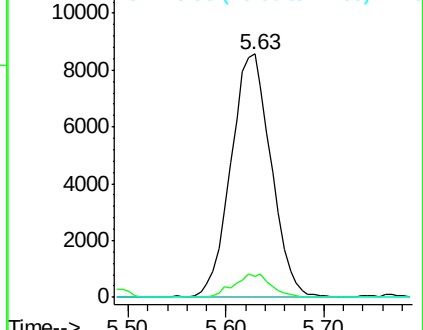
77 0.0 25.3 37.9#



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: 6.711 ug/l

RT: 5.62 min Scan# 744

Delta R.T. -0.13 min

Lab File: VX019816.D

Acq: 10 Dec 2020 11:38

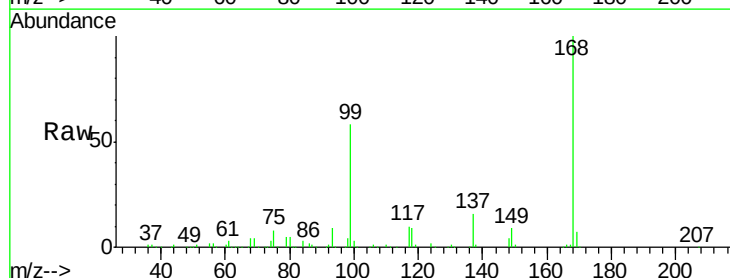
Tgt Ion: 117 Resp: 31581

Ion Ratio Lower Upper

117 100

119 5.3 76.2 114.2#

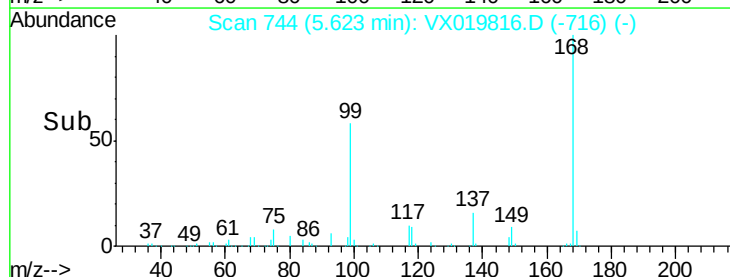
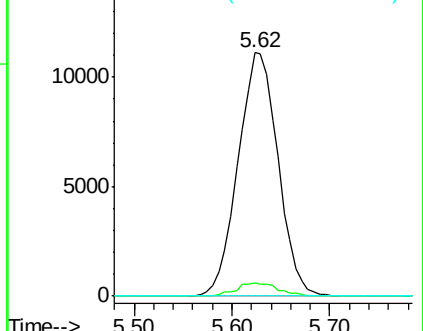
121 0.0 24.8 37.2#

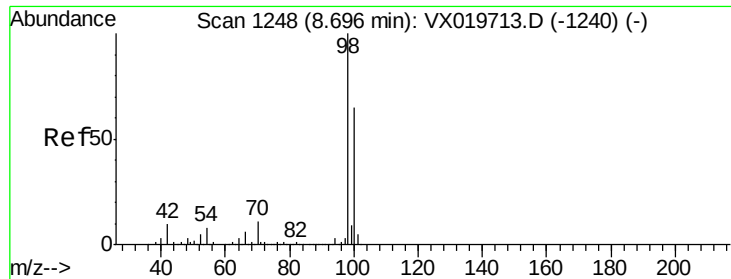


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

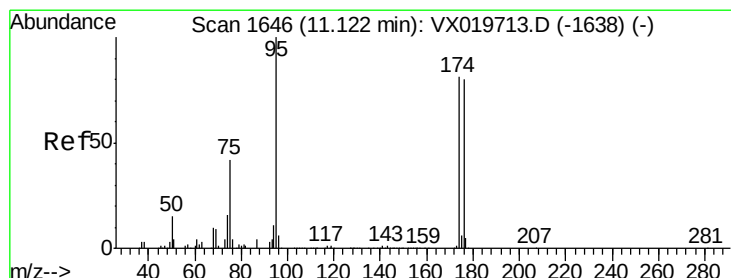
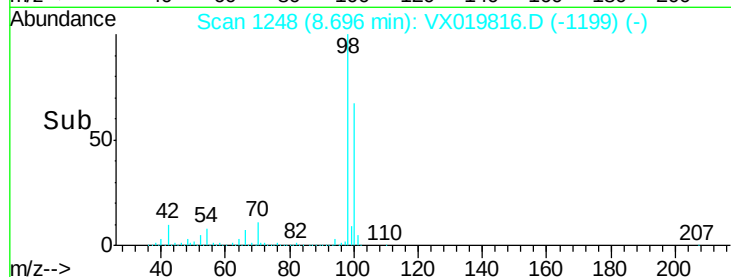
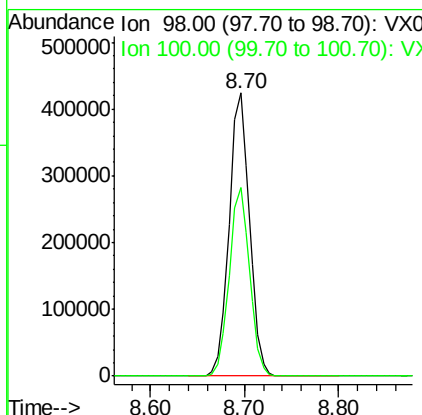
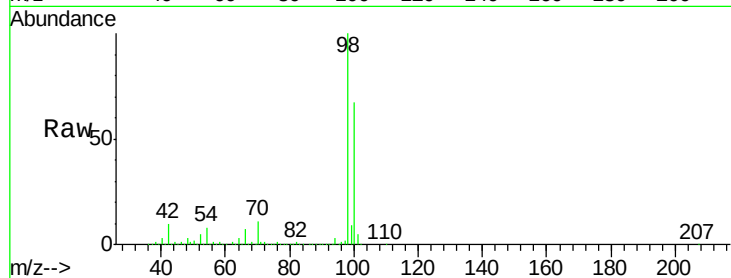




#50
Toluene-d8
Concen: 48.521 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX019816.D
Acq: 10 Dec 2020 11:38

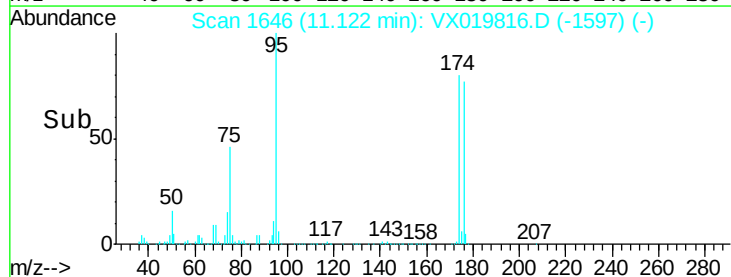
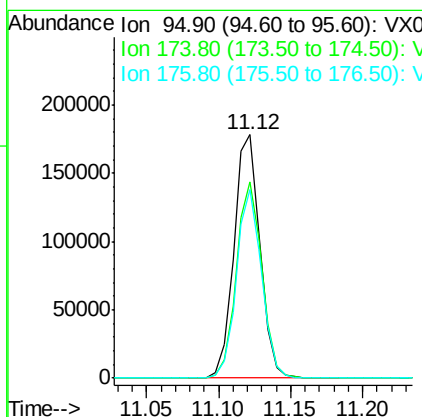
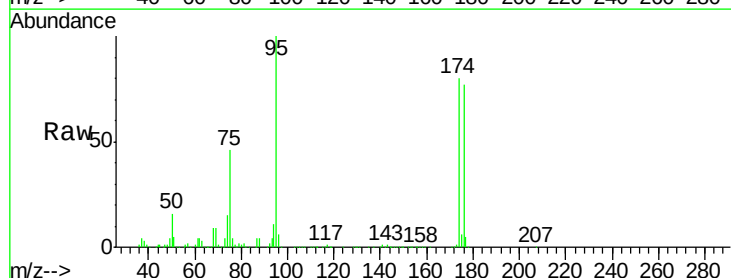
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5225-120820DL

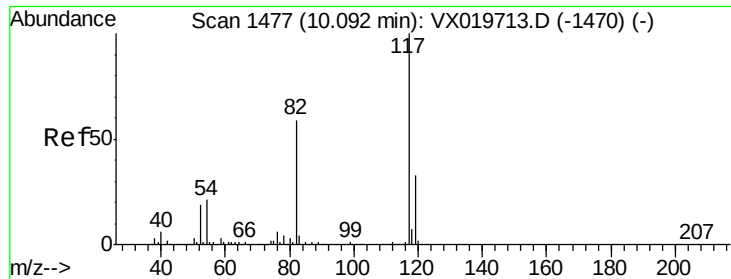
Tgt Ion: 98 Resp: 636649
Ion Ratio Lower Upper
98 100
100 66.6 51.9 77.9



#62
4-Bromofluorobenzene
Concen: 44.999 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX019816.D
Acq: 10 Dec 2020 11:38

Tgt Ion: 95 Resp: 224728
Ion Ratio Lower Upper
95 100
174 78.9 0.0 154.6
176 74.8 0.0 155.8

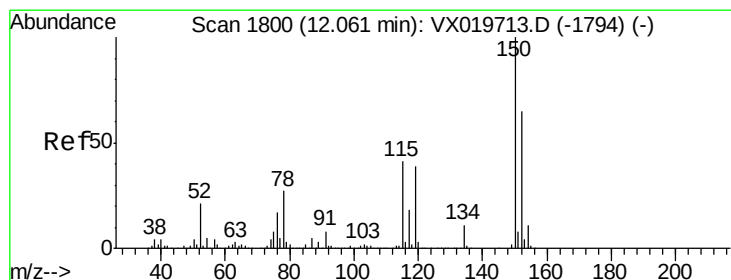
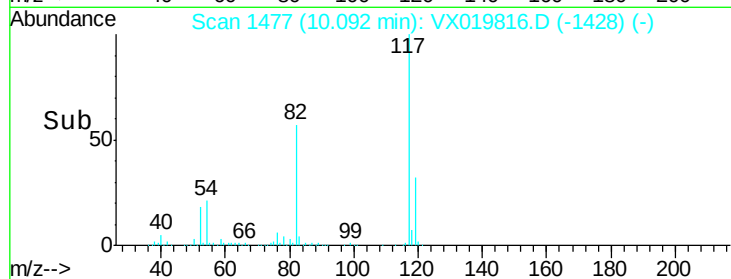
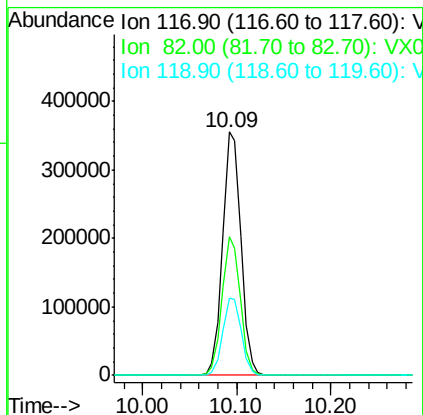
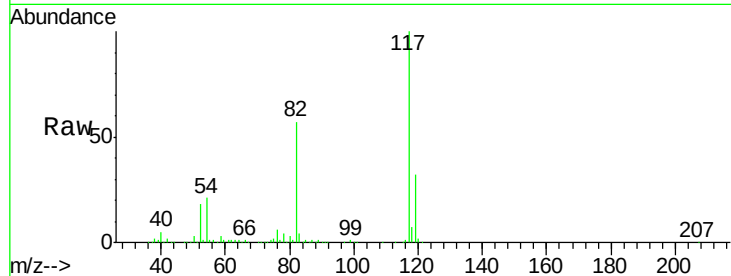




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.09 min Scan# 1477
Delta R.T. -0.00 min
Lab File: VX019816.D
Acq: 10 Dec 2020 11:38

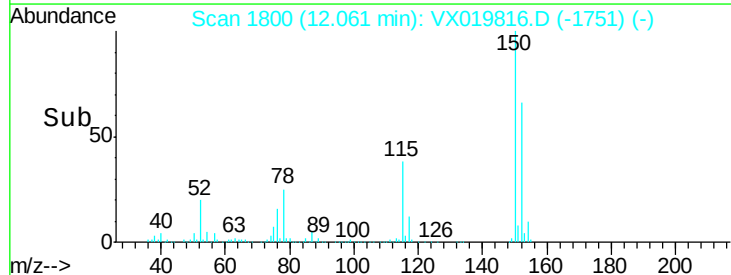
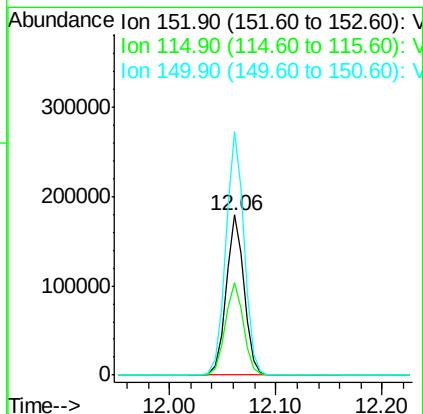
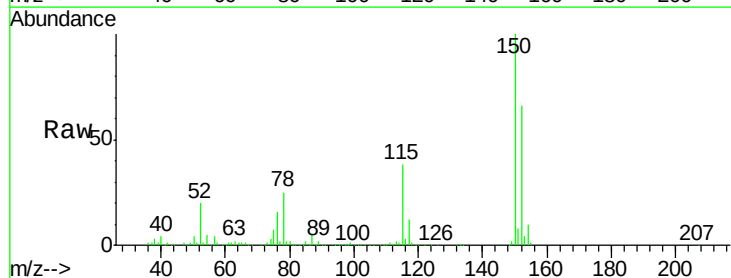
Instrument :
MSVOA_X
ClientSampleId :
TU032-32-5225-120820DL

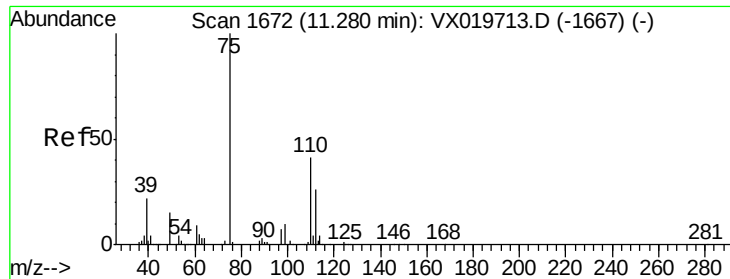
Tgt Ion:117 Resp: 478457
Ion Ratio Lower Upper
117 100
82 56.9 47.4 71.2
119 31.8 26.6 39.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX019816.D
Acq: 10 Dec 2020 11:38

Tgt Ion:152 Resp: 209981
Ion Ratio Lower Upper
152 100
115 58.9 41.1 123.3
150 155.4 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 22.820 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. -0.16 min

Lab File: VX019816.D

Acq: 10 Dec 2020 11:38

Instrument :

MSVOA_X

ClientSampleId :

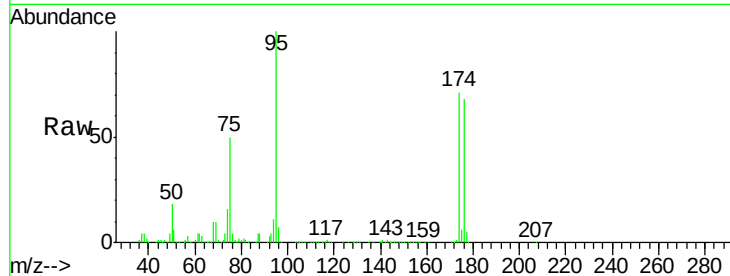
TU032-32-5225-120820DL

Tgt Ion: 75 Resp: 107471

Ion Ratio Lower Upper

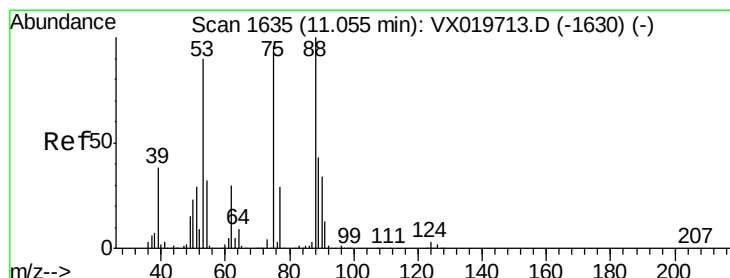
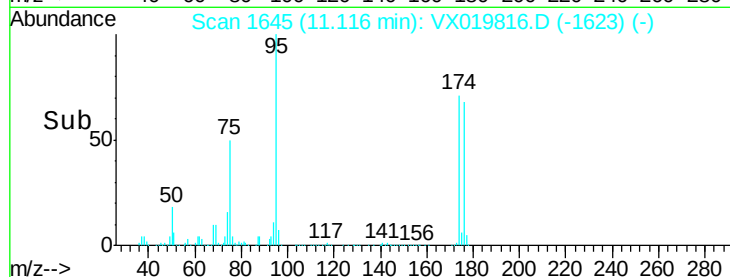
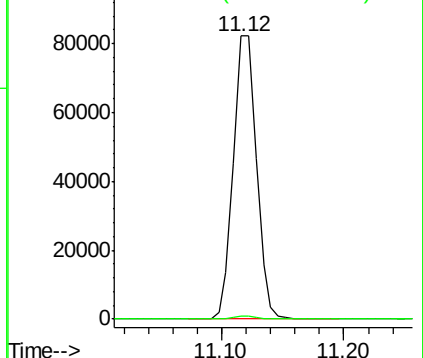
75 100

77 1.2 19.1 57.5#



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: 65.968 ug/l

RT: 11.12 min Scan# 1645

Delta R.T. 0.06 min

Lab File: VX019816.D

Acq: 10 Dec 2020 11:38

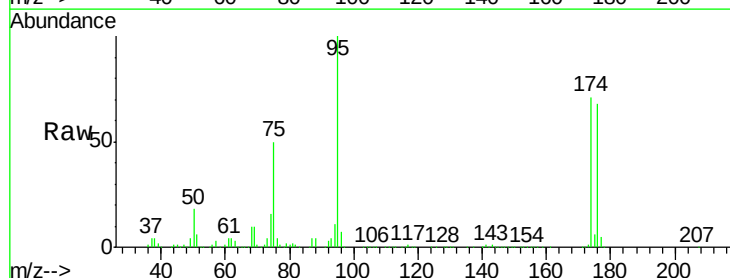
Tgt Ion: 75 Resp: 107471

Ion Ratio Lower Upper

75 100

53 0.1 74.5 111.7#

89 0.0 37.9 56.9#



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

