

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062620\
 Data File : VX016976.D
 Acq On : 26 Jun 2020 12:27
 Operator : JC/SP
 Sample : L3094-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 2020-06-22-TB03

Quant Time: Jun 27 03:01:13 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062620W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 26 08:34:16 2020
 Response via : Initial Calibration

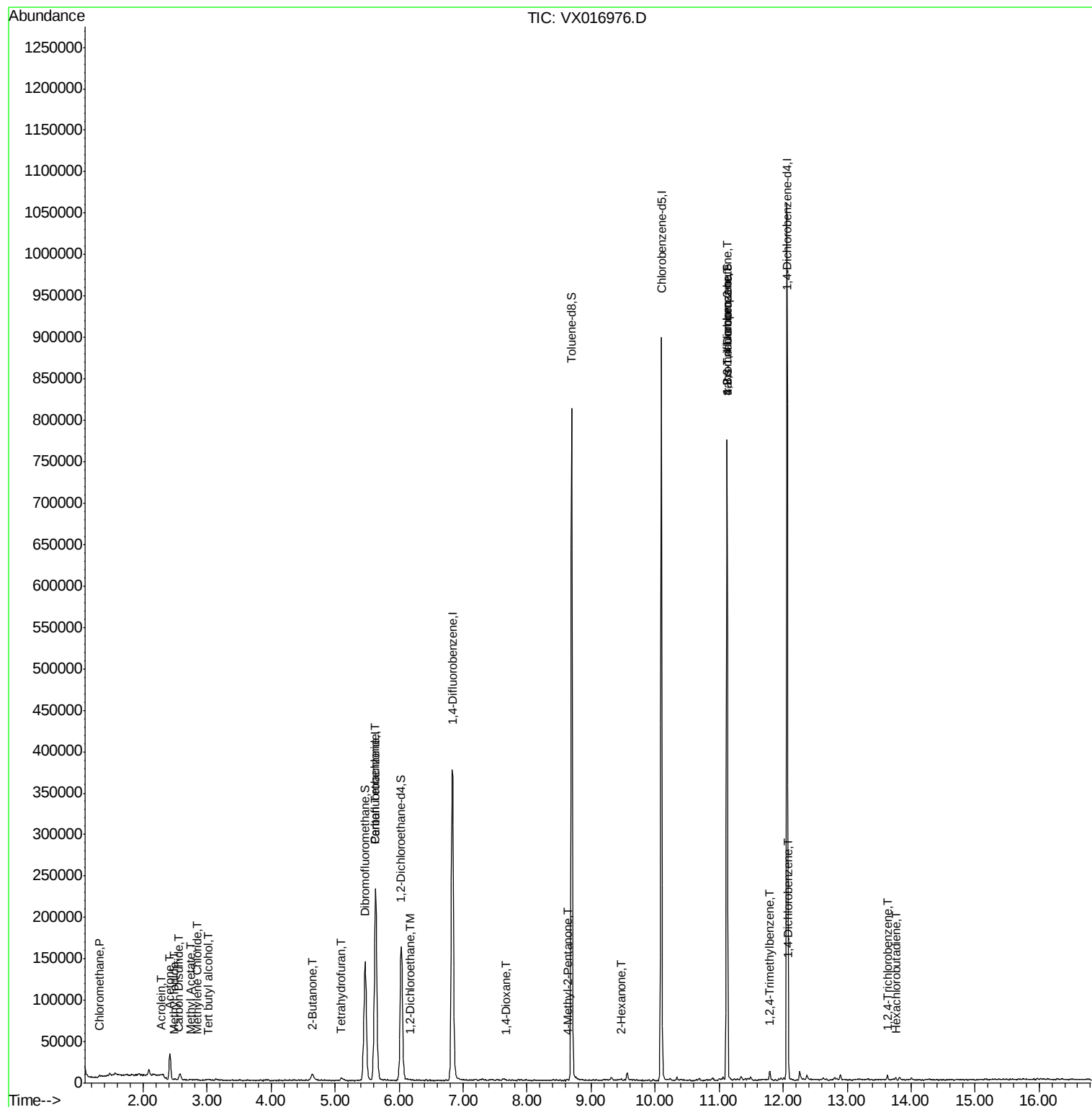
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	203290	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	360846	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	360846	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	190043	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.03	65	158368	51.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.18%	
35) Dibromofluoromethane	5.47	113	121127	50.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.64%	
50) Toluene-d8	8.70	98	455321	52.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.24%	
62) 4-Bromofluorobenzene	11.12	95	190218	56.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.62%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.32	50	1323	0.531	ug/l	96
5) Bromomethane	1.63	94	222	Below Cal		95
10) Methyl Iodide	2.49	142	307	2.887	ug/l #	70
11) Tert butyl alcohol	3.02	59	1432	2.471	ug/l #	90
13) Acrolein	2.28	56	825	1.921	ug/l #	43
16) Acetone	2.42	43	34354	28.628	ug/l	99
17) Carbon Disulfide	2.56	76	1962	0.275	ug/l #	90
18) Methyl Acetate	2.75	43	1105	0.378	ug/l #	83
20) Methylene Chloride	2.84	84	661	0.242	ug/l #	63
25) 2-Butanone	4.65	43	12198	6.669	ug/l	98
29) Tetrahydrofuran	5.09	42	2761	2.296	ug/l #	34
38) Carbon Tetrachloride	5.63	117	22530	5.958	ug/l #	17
42) 1,2-Dichloroethane	6.17	62	901	0.223	ug/l	90
49) 1,4-Dioxane	7.67	88	23	0.367	ug/l #	1
51) 4-Methyl-2-Pentanone	8.63	43	944	0.255	ug/l	94
59) 2-Hexanone	9.47	43	781	0.281	ug/l	95
76) 1,2,3-Trichloropropane	11.12	75	105606	26.479	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.12	75	105606	67.227	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.79	105	3436	0.312	ug/l #	55
88) 1,4-Dichlorobenzene	12.09	146	1284	0.207	ug/l #	25
93) 1,2,4-Trichlorobenzene	13.63	180	763	0.203	ug/l #	71
94) Hexachlorobutadiene	13.77	225	303	0.224	ug/l	83

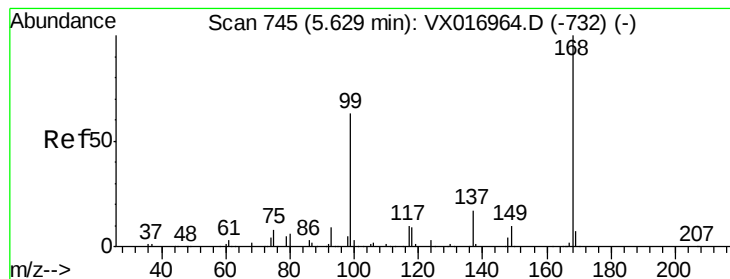
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Jun 26 08:34:16 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

Instrument :

MSVOA_X

ClientSampleId :

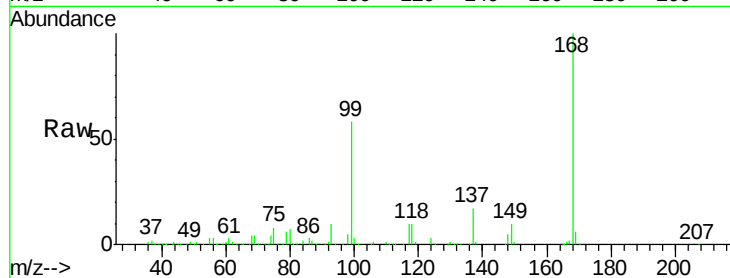
2020-06-22-TB03

Tot Ion:168 Resp: 203290

Ion Ratio Lower Upper

168 100

99 58.4 50.2 75.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

80000

60000

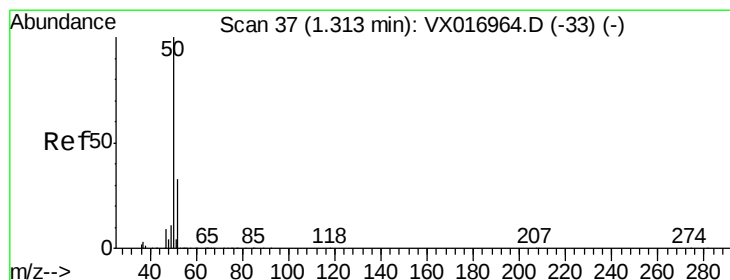
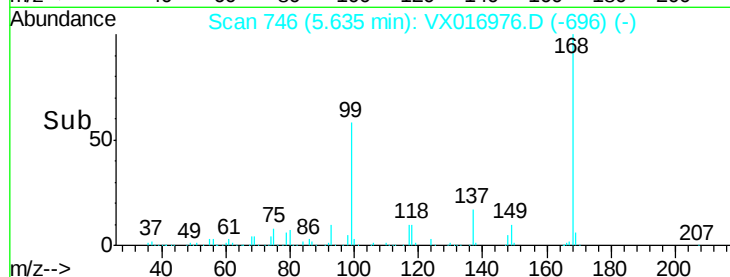
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.531 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX016976.D

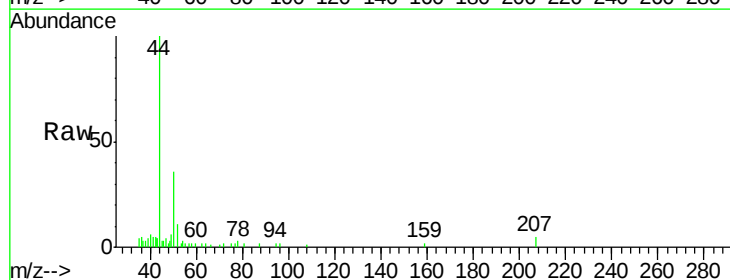
Acq: 26 Jun 2020 12:27

Tgt Ion: 50 Resp: 1323

Ion Ratio Lower Upper

50 100

52 30.8 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

1500

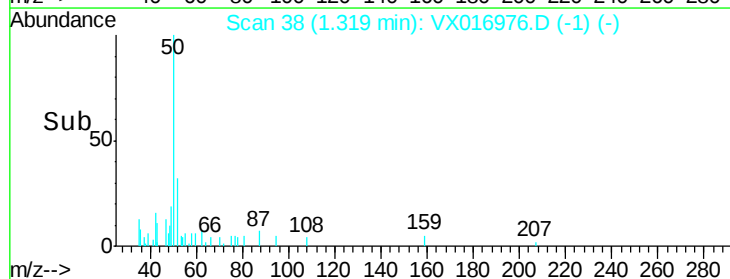
1000

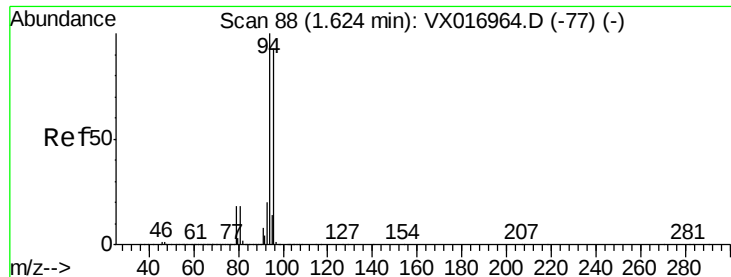
500

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 89

Delta R.T. 0.01 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

Instrument :

MSVOA_X

ClientSampleId :

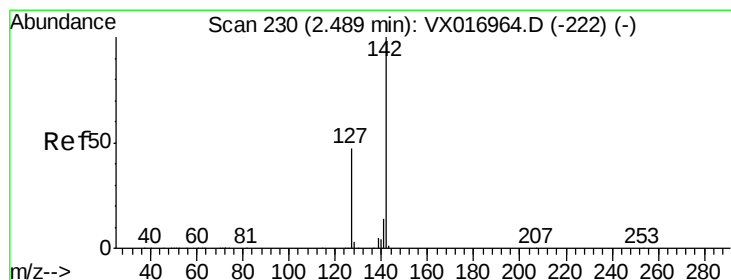
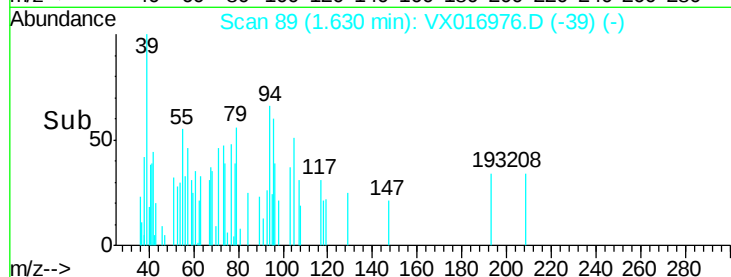
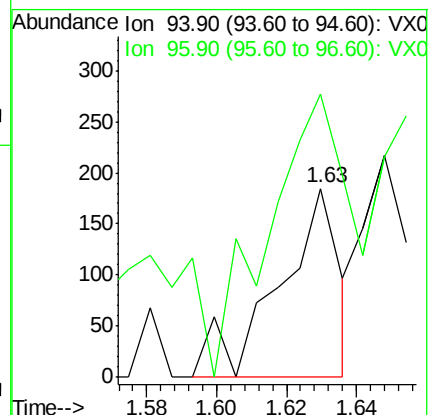
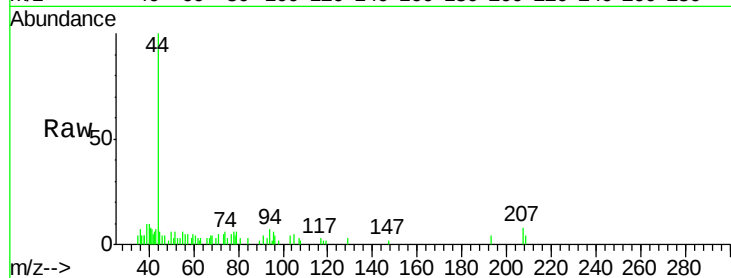
2020-06-22-TB03

Tot Ion: 94 Resp: 222

Ion Ratio Lower Upper

94 100

96 87.6 74.2 111.2



#10

Methyl Iodide

Concen: 2.887 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

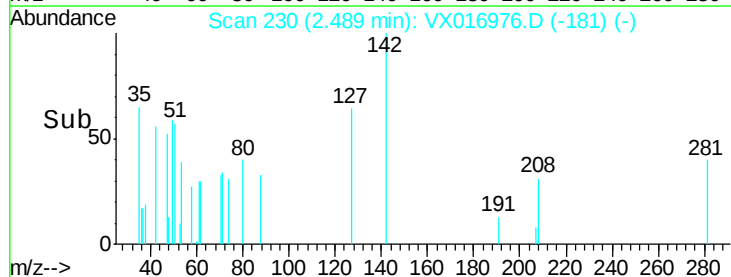
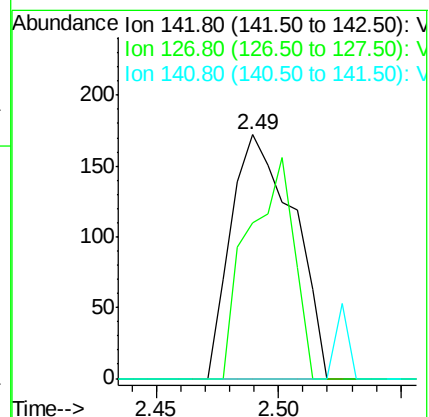
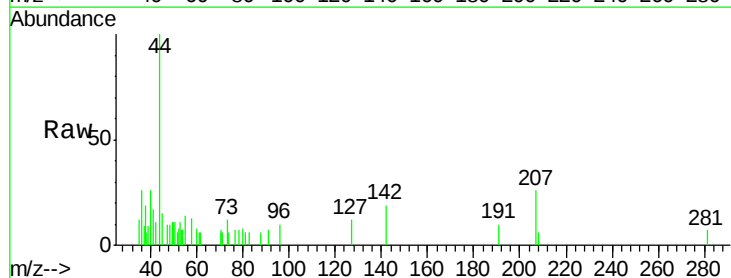
Tgt Ion:142 Resp: 307

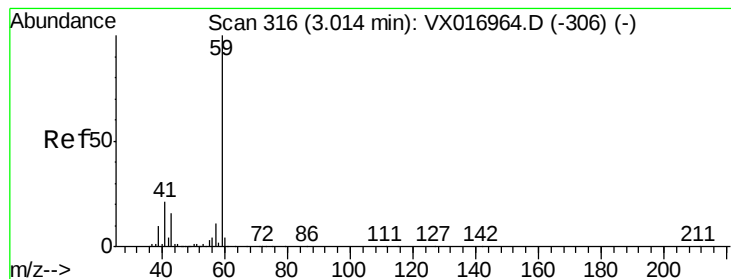
Ion Ratio Lower Upper

142 100

127 65.8 37.4 56.0#

141 0.0 11.7 17.5#



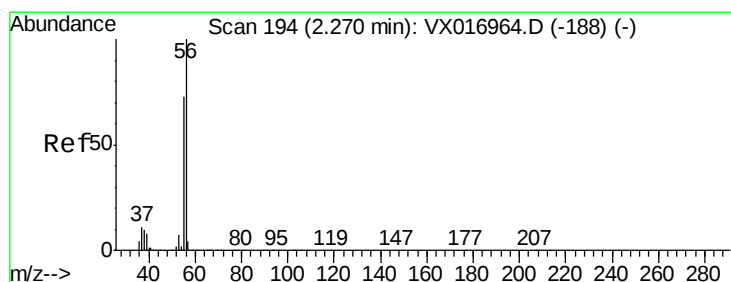
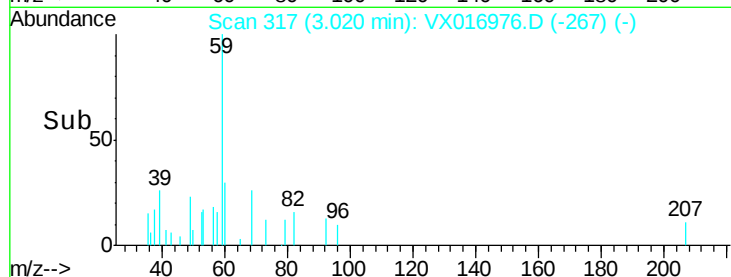
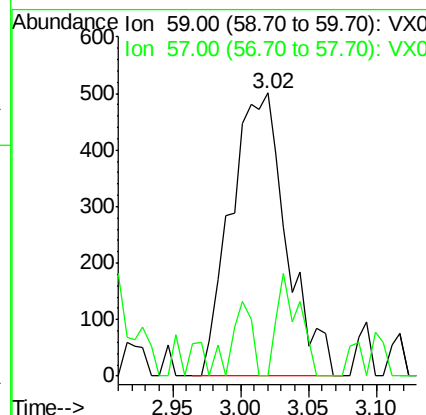
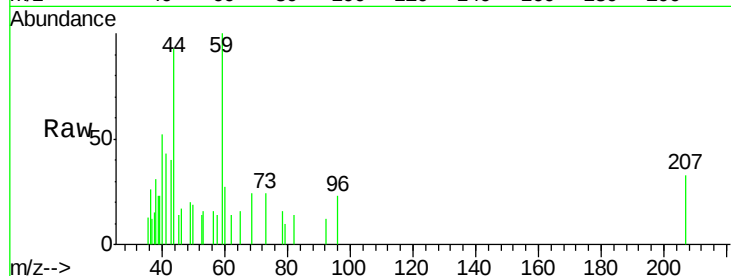


#11

Tert butyl alcohol
Concen: 2.471 ug/l
RT: 3.02 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX016976.D
Acq: 26 Jun 2020 12:27

Instrument :
MSVOA_X
ClientSampleId :
2020-06-22-TB03

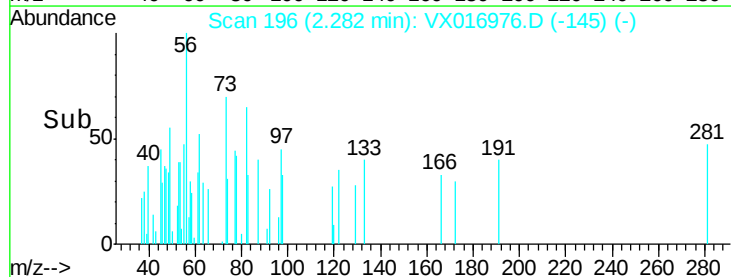
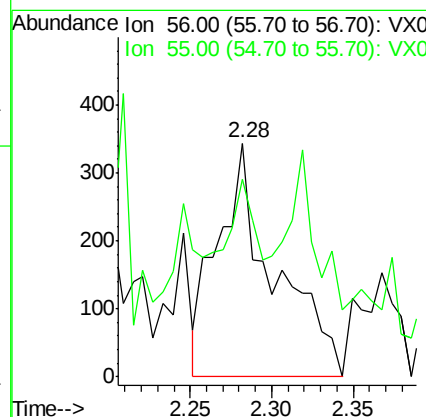
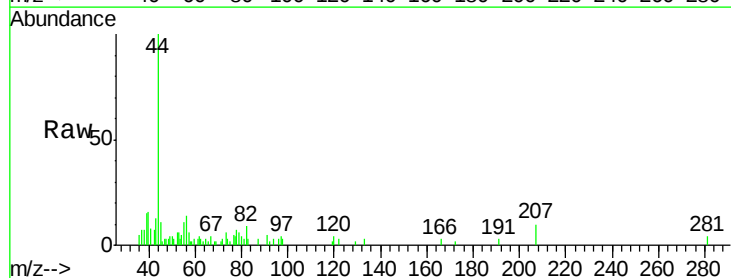
Tot Ion: 59 Resp: 1432
Ion Ratio Lower Upper
59 100
57 14.5 8.5 12.7#

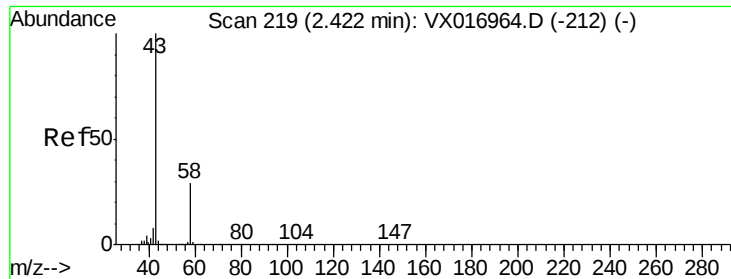


#13

Acrolein
Concen: 1.921 ug/l
RT: 2.28 min Scan# 196
Delta R.T. 0.01 min
Lab File: VX016976.D
Acq: 26 Jun 2020 12:27

Tgt Ion: 56 Resp: 825
Ion Ratio Lower Upper
56 100
55 24.7 57.5 86.3#





#16

Acetone

Concen: 28.628 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

Instrument :

MSVOA_X

ClientSampleId :

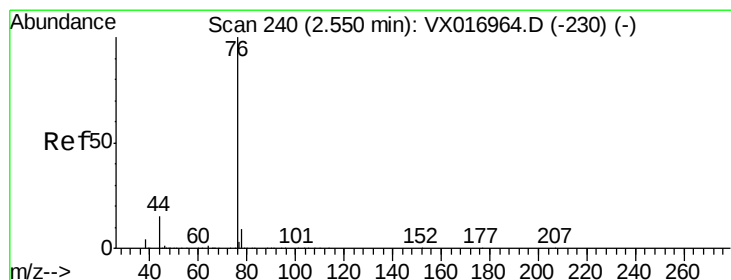
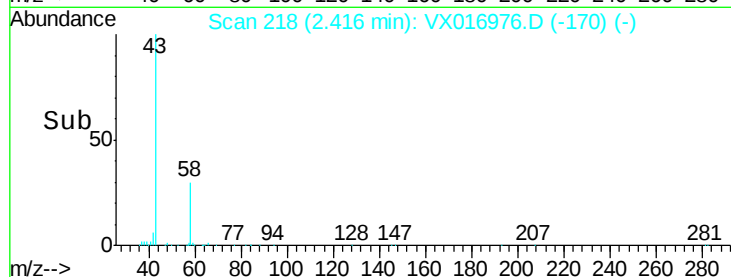
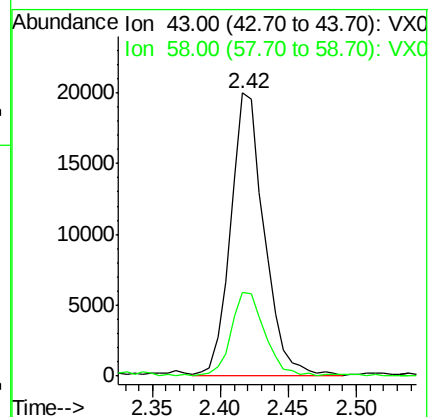
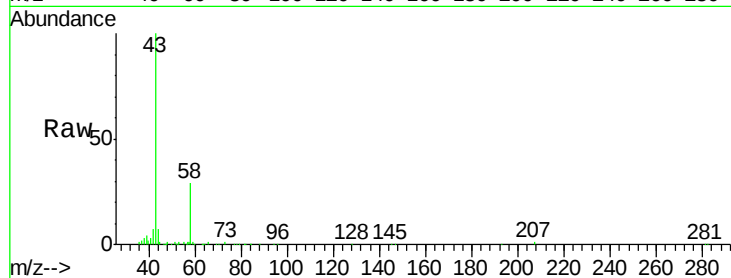
2020-06-22-TB03

Tot Ion: 43 Resp: 34354

Ion Ratio Lower Upper

43 100

58 29.1 23.5 35.3



#17

Carbon Disulfide

Concen: 0.275 ug/l

RT: 2.56 min Scan# 241

Delta R.T. 0.01 min

Lab File: VX016976.D

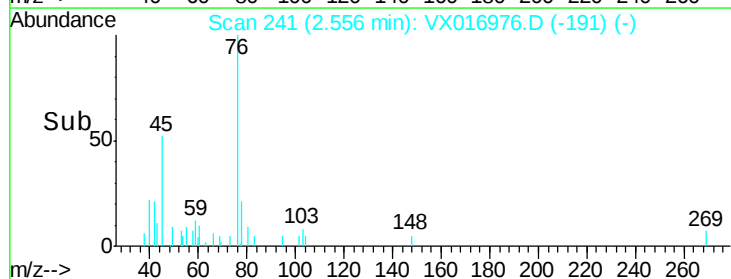
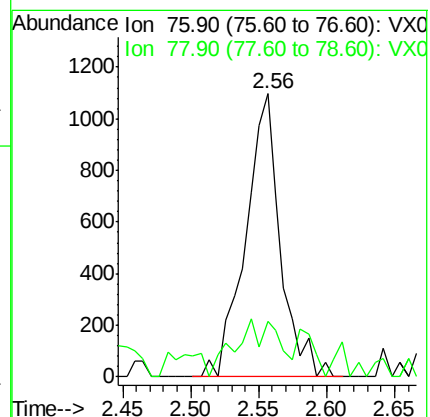
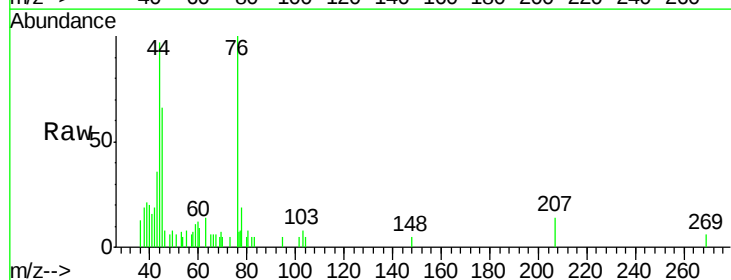
Acq: 26 Jun 2020 12:27

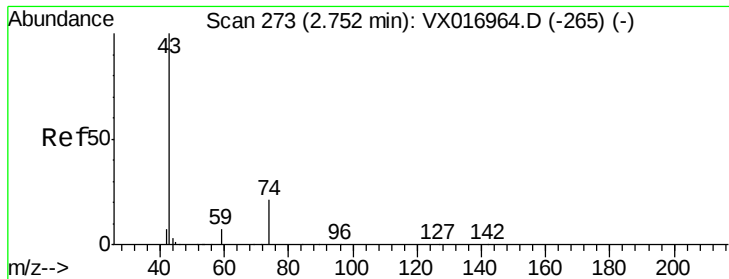
Tgt Ion: 76 Resp: 1962

Ion Ratio Lower Upper

76 100

78 12.1 7.0 10.4#

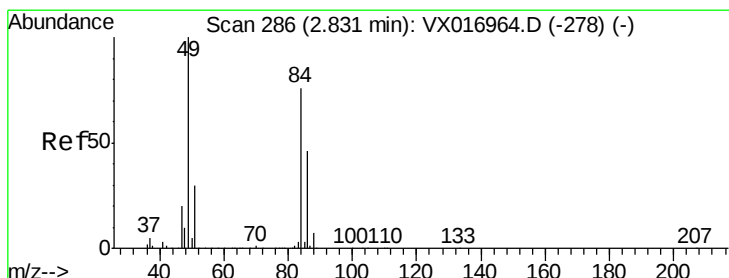
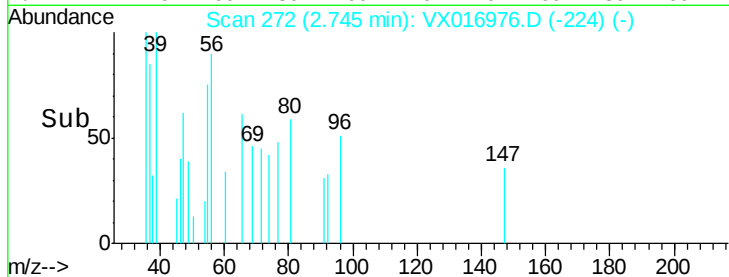
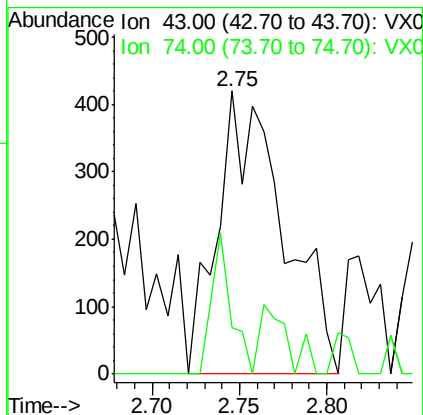
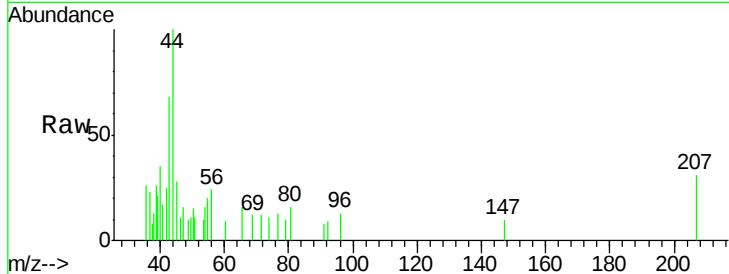




#18
Methyl Acetate
Concen: 0.378 ug/l
RT: 2.75 min Scan# 272
Delta R.T. -0.01 min
Lab File: VX016976.D
Acq: 26 Jun 2020 12:27

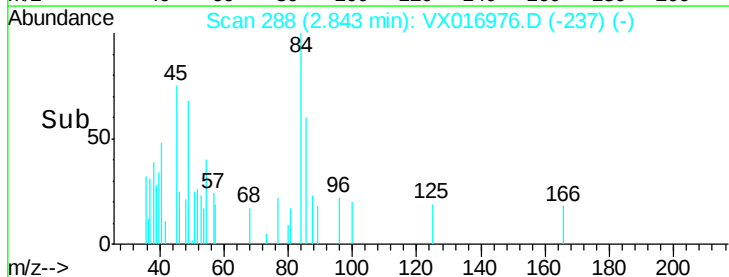
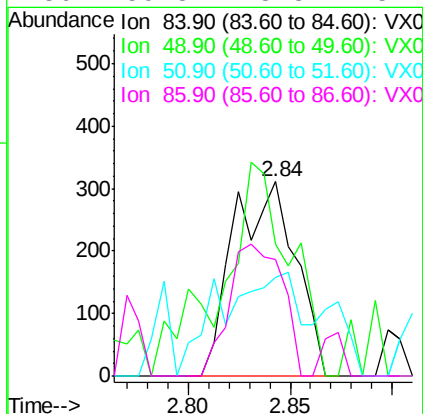
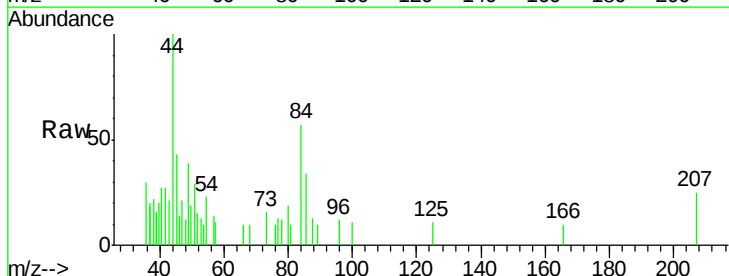
Instrument :
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ClientSampleId :
2020-06-22-TB03

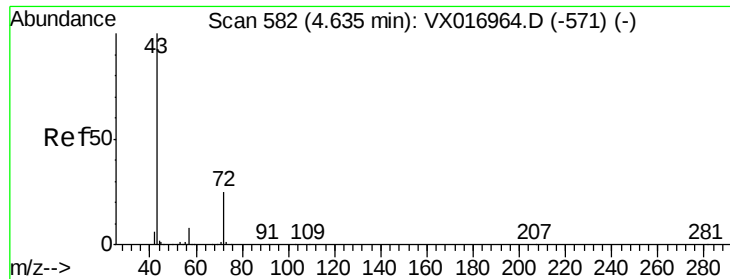
Tot Ion: 43 Resp: 1105
Ion Ratio Lower Upper
43 100
74 14.8 18.3 27.5#



#20
Methylene Chloride
Concen: 0.242 ug/l
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX016976.D
Acq: 26 Jun 2020 12:27

Tgt Ion: 84 Resp: 661
Ion Ratio Lower Upper
84 100
49 68.2 105.6 158.4#
51 59.8 31.2 46.8#
86 59.8 48.8 73.2





#25

2-Butanone

Concen: 6.669 ug/l

RT: 4.65 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

Instrument :

MSVOA_X

ClientSampleId :

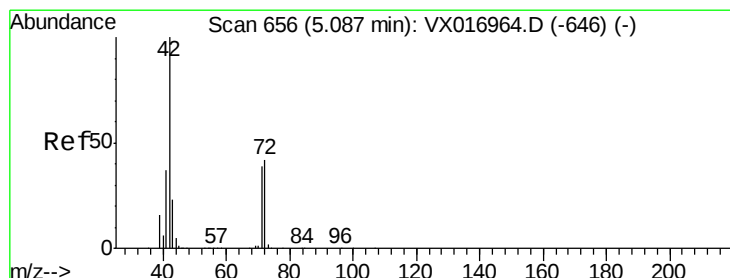
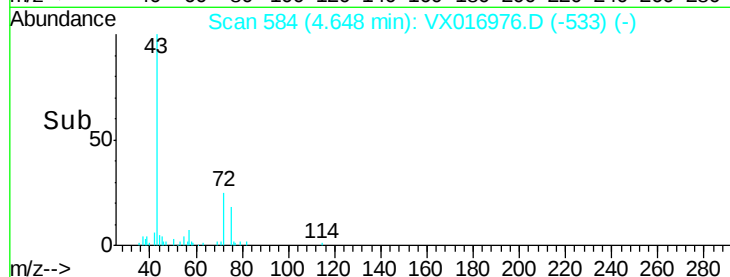
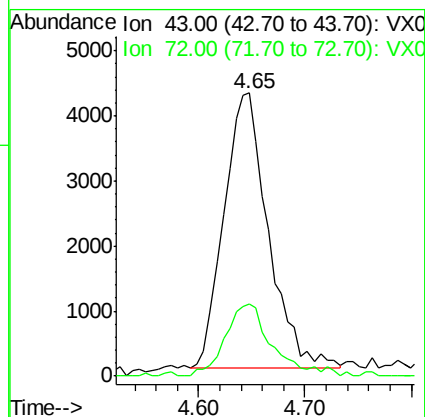
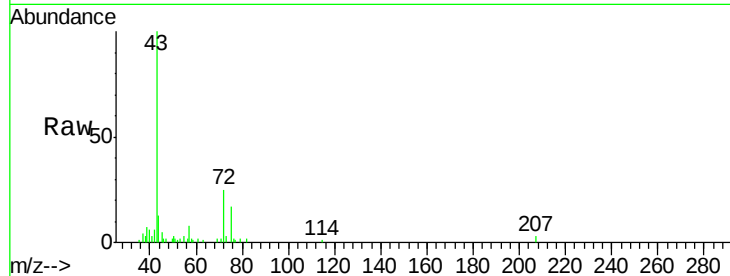
2020-06-22-TB03

Tot Ion: 43 Resp: 12198

Ion Ratio Lower Upper

43 100

72 26.2 20.0 30.0



#29

Tetrahydrofuran

Concen: 2.296 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

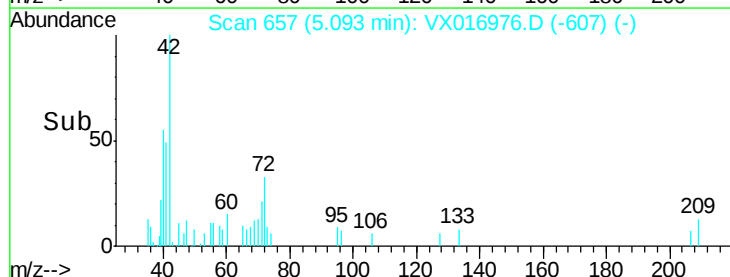
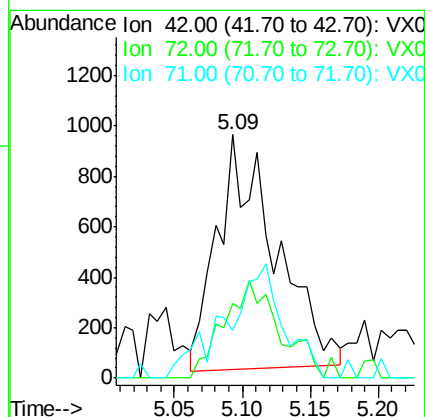
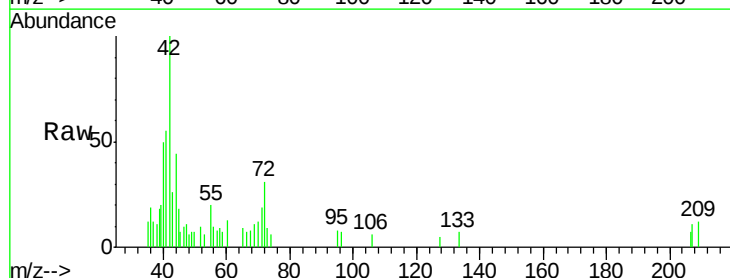
Tgt Ion: 42 Resp: 2761

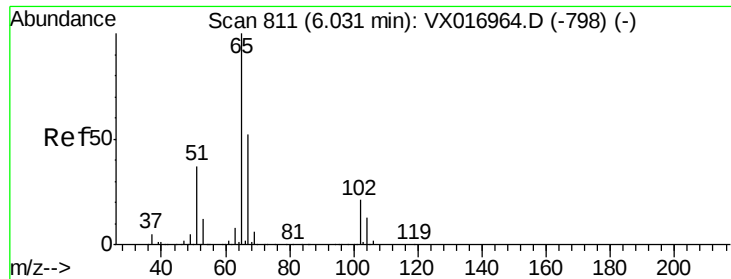
Ion Ratio Lower Upper

42 100

72 0.0 34.1 51.1#

71 0.0 32.1 48.1#





#33

1,2-Dichloroethane-d4

Concen: 51.587 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

Instrument :

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ClientSampleId :

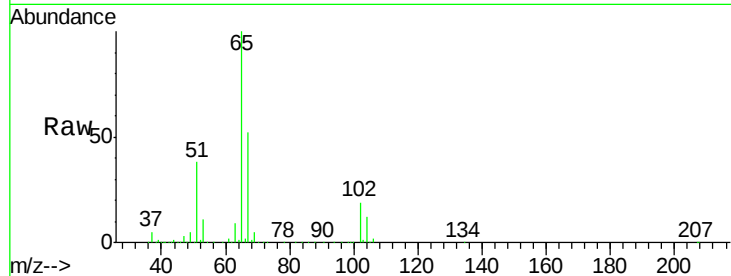
2020-06-22-TB03

Tot Ion: 65 Resp: 158368

Ion Ratio Lower Upper

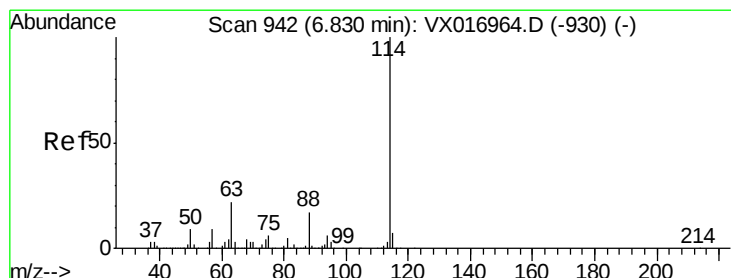
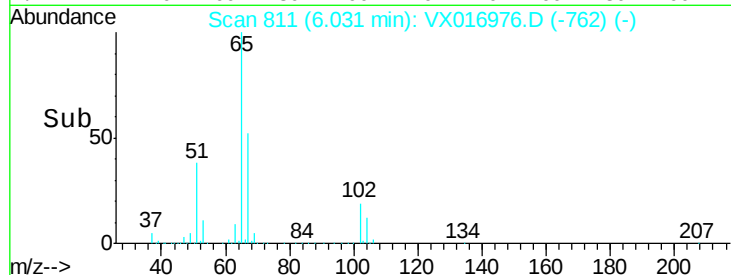
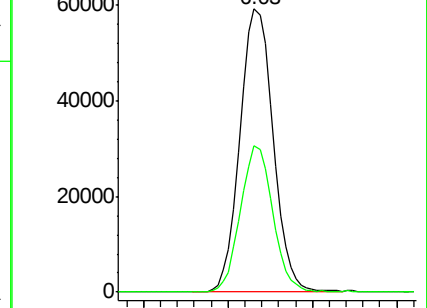
65 100

67 50.4 0.0 102.8



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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

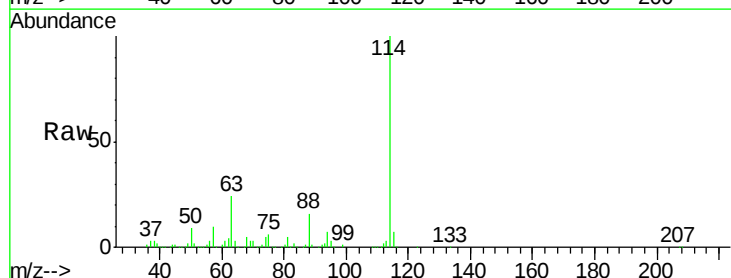
Tgt Ion: 114 Resp: 360846

Ion Ratio Lower Upper

114 100

63 23.8 0.0 44.4

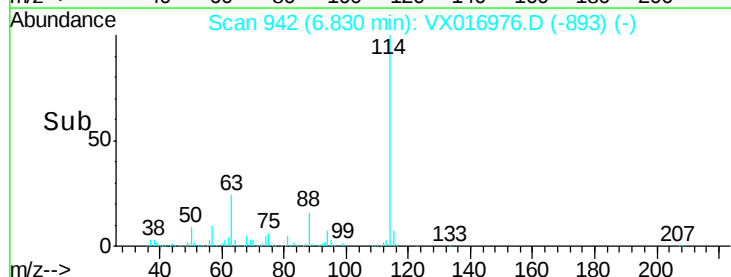
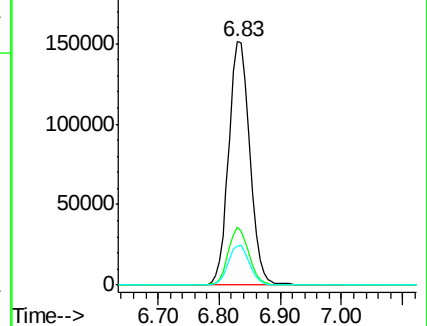
88 15.7 0.0 33.2

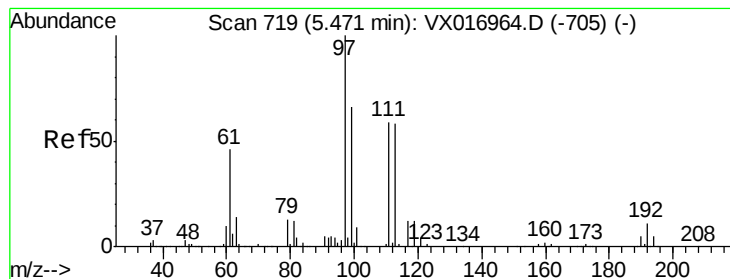


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.823 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

Instrument :

MSVOA_X

ClientSampleId :

2020-06-22-TB03

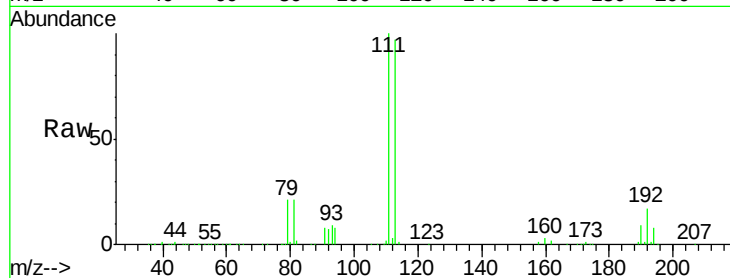
Tot Ion:113 Resp: 121127

Ion Ratio Lower Upper

113 100

111 103.1 84.3 126.5

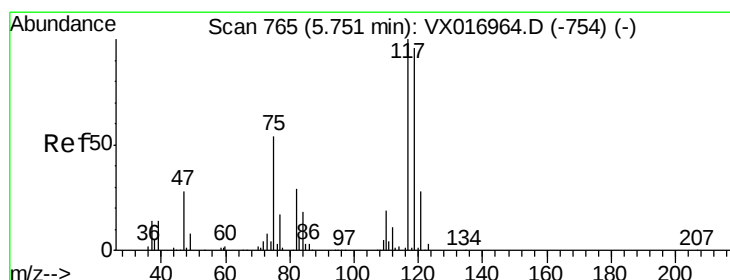
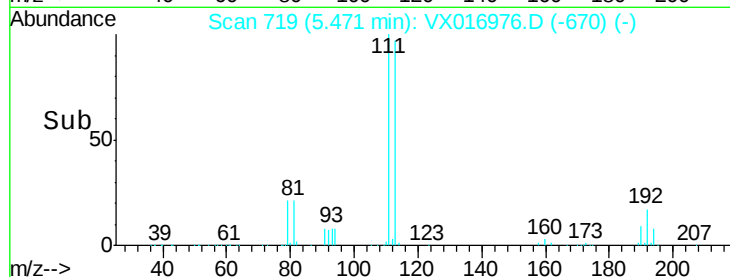
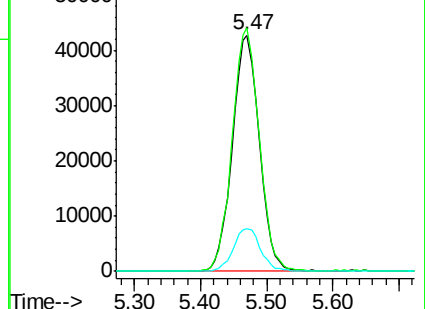
192 18.4 15.2 22.8



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



#38

Carbon Tetrachloride

Concen: 5.958 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

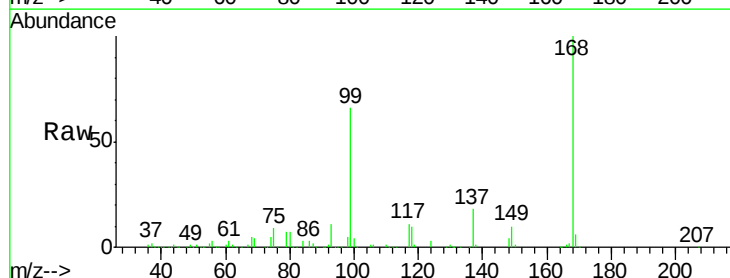
Tgt Ion:117 Resp: 22530

Ion Ratio Lower Upper

117 100

119 5.7 76.6 114.8#

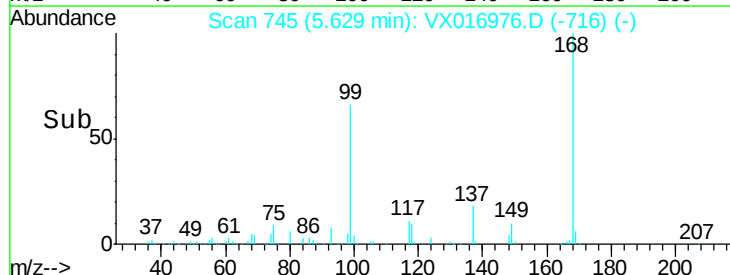
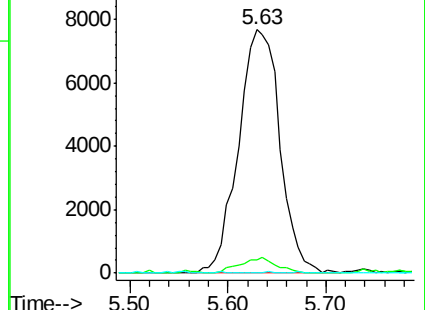
121 0.0 22.5 33.7#

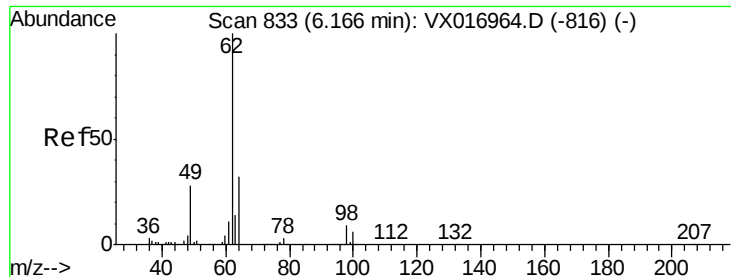


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#42

1,2-Dichloroethane

Concen: 0.223 ug/l

RT: 6.17 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

Instrument :

MSVOA_X

ClientSampleId :

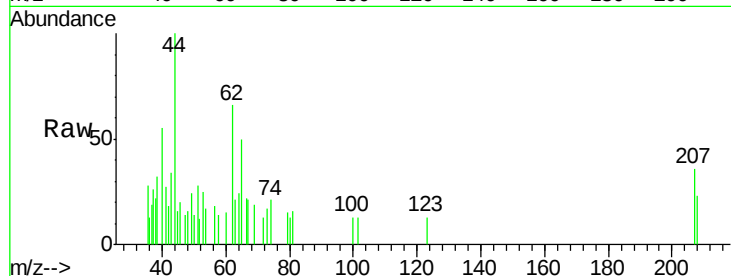
2020-06-22-TB03

Tot Ion: 62 Resp: 901

Ion Ratio Lower Upper

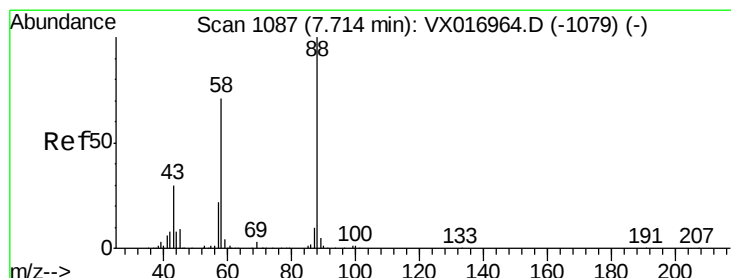
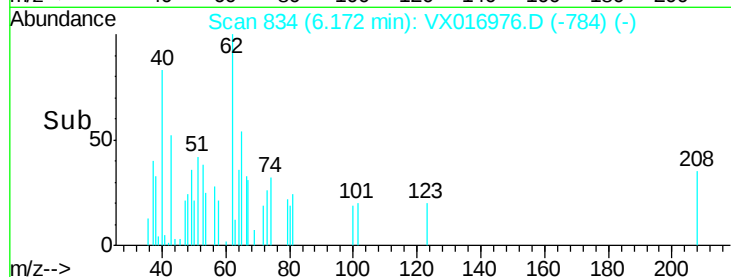
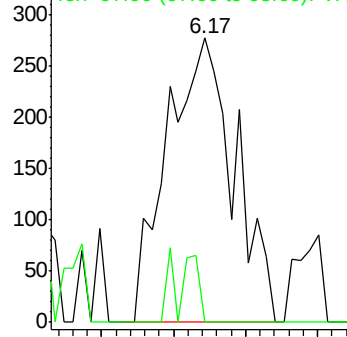
62 100

98 5.1 0.0 17.2



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#49

1,4-Dioxane

Concen: 0.367 ug/l

RT: 7.67 min Scan# 1080

Delta R.T. -0.04 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

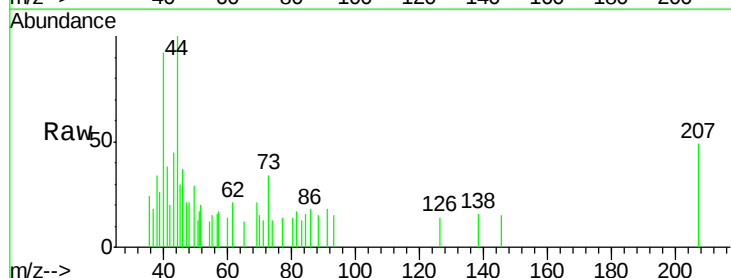
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 434.8 28.1 42.1#

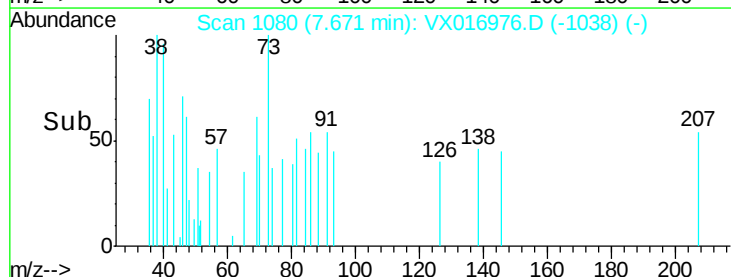
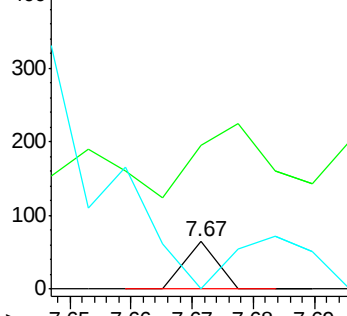
58 282.6 56.1 84.1#

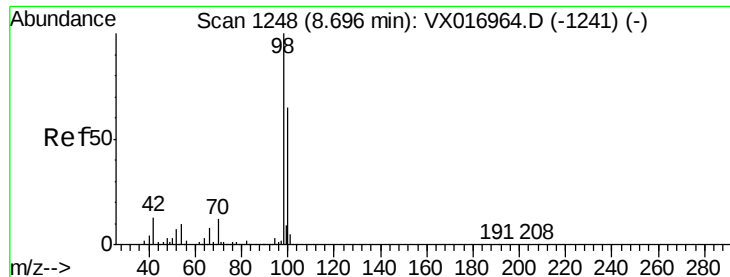


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

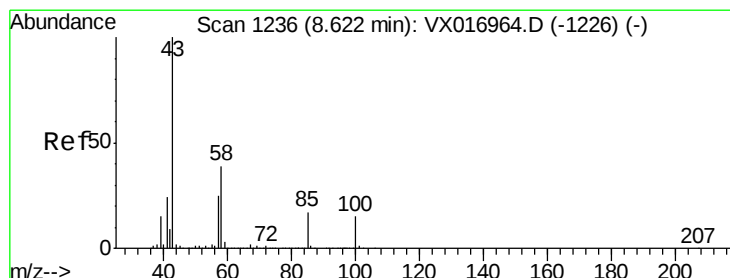
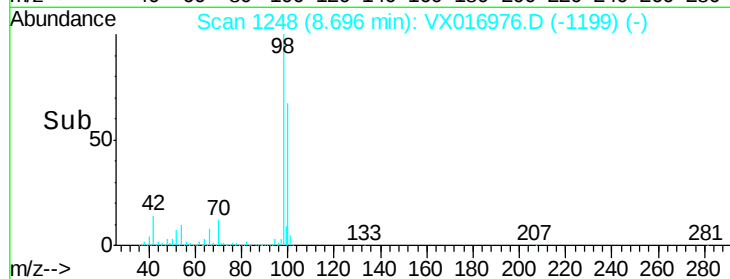
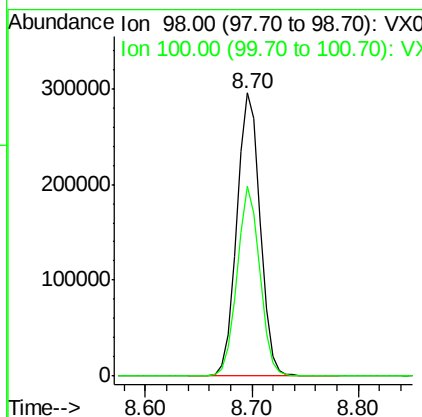
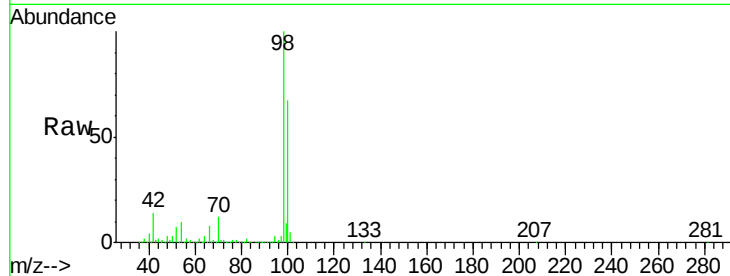




#50
Toluene-d8
Concen: 52.119 ug/l
RT: 8.70 min Scan# 1248
Delta R.T. -0.00 min
Lab File: VX016976.D
Acq: 26 Jun 2020 12:27

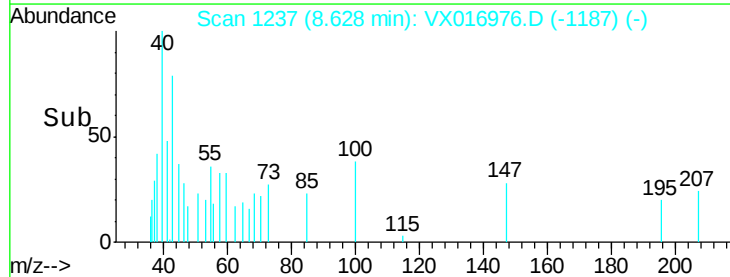
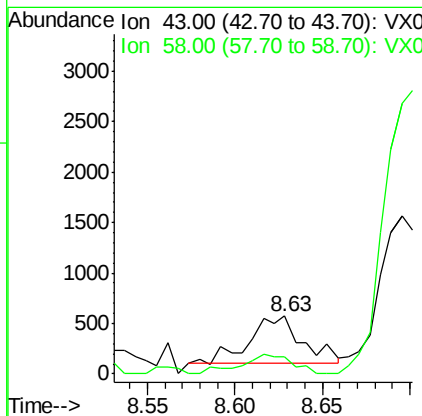
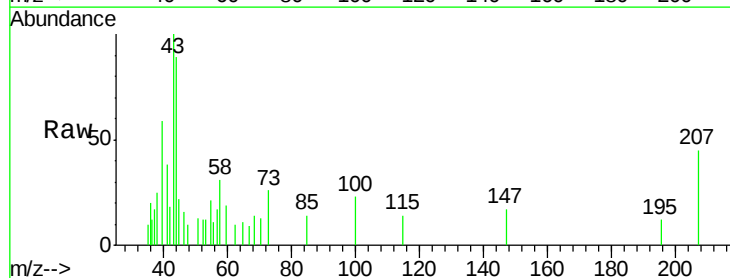
Instrument :
MSVOA_X
ClientSampleId :
2020-06-22-TB03

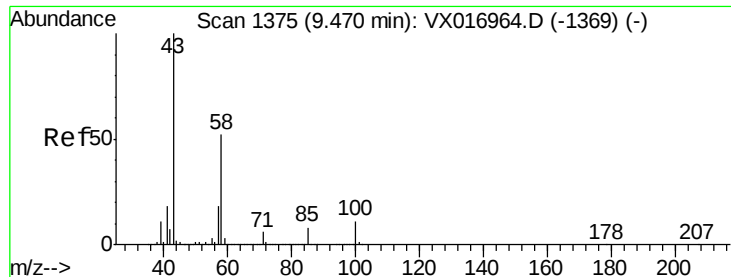
Tot Ion: 98 Resp: 455321
Ion Ratio Lower Upper
98 100
100 65.1 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 0.255 ug/l
RT: 8.63 min Scan# 1237
Delta R.T. 0.01 min
Lab File: VX016976.D
Acq: 26 Jun 2020 12:27

Tgt Ion: 43 Resp: 944
Ion Ratio Lower Upper
43 100
58 41.8 30.4 45.6

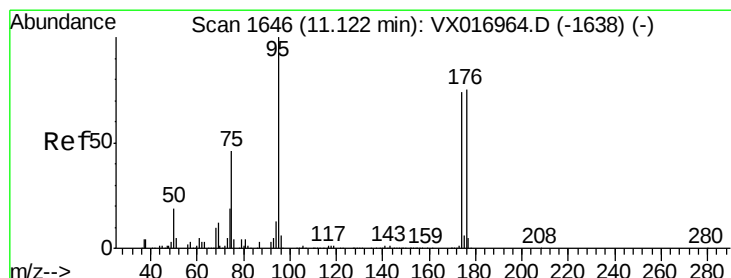
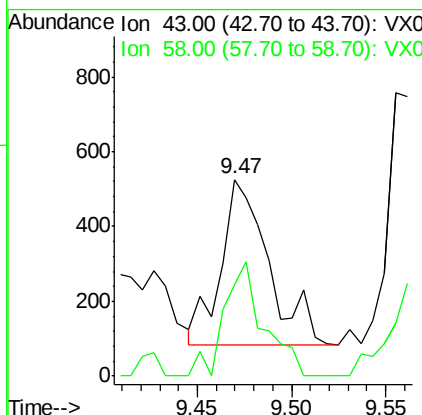
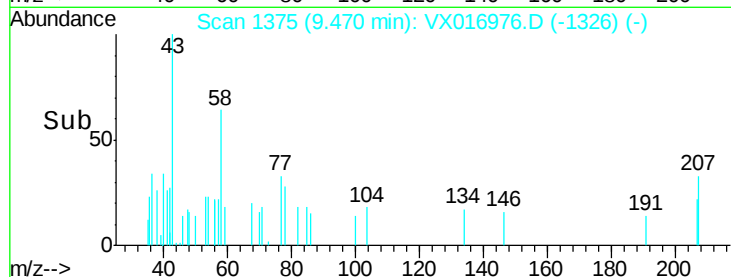
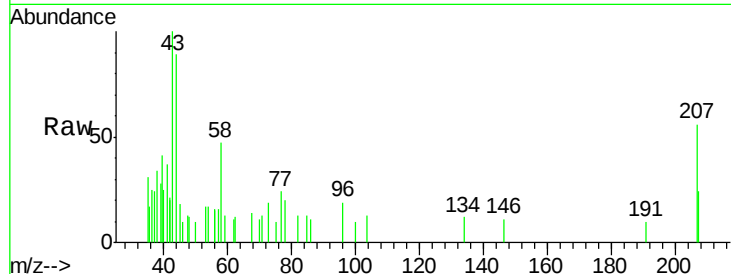




#59
2-Hexanone
Concen: 0.281 ug/l
RT: 9.47 min Scan# 1375
Delta R.T. -0.00 min
Lab File: VX016976.D
Acq: 26 Jun 2020 12:27

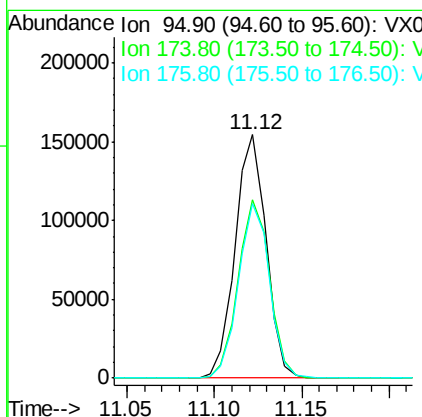
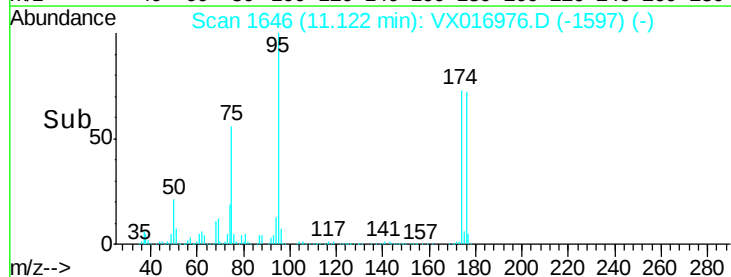
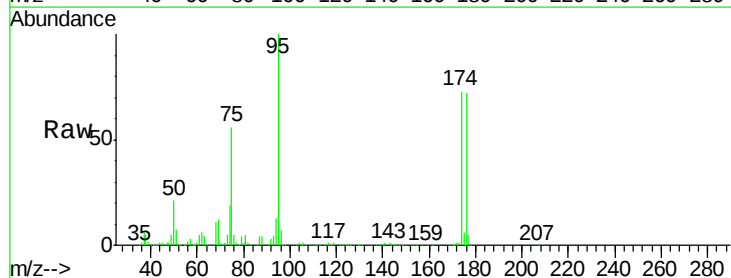
Instrument :
MSVOA_X
ClientSampleId :
2020-06-22-TB03

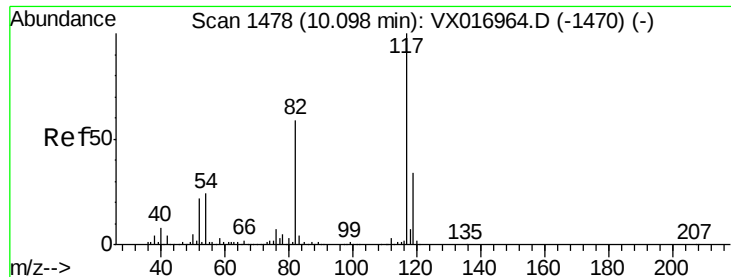
Tot Ion: 43 Resp: 781
Ion Ratio Lower Upper
43 100
58 56.5 26.3 78.9



#62
4-Bromofluorobenzene
Concen: 56.307 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX016976.D
Acq: 26 Jun 2020 12:27

Tgt Ion: 95 Resp: 190218
Ion Ratio Lower Upper
95 100
174 74.8 0.0 149.6
176 71.8 0.0 148.2

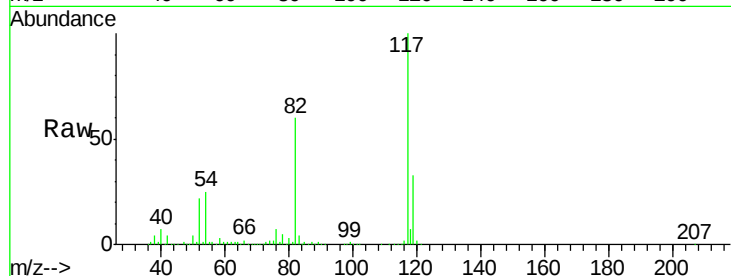




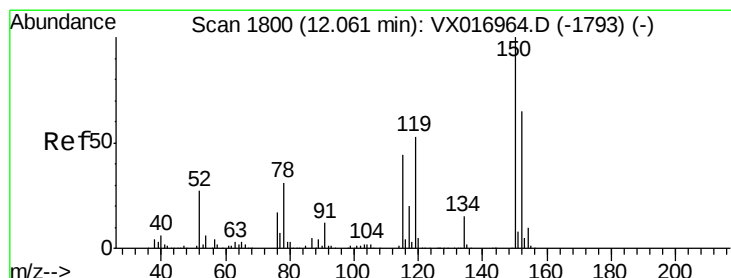
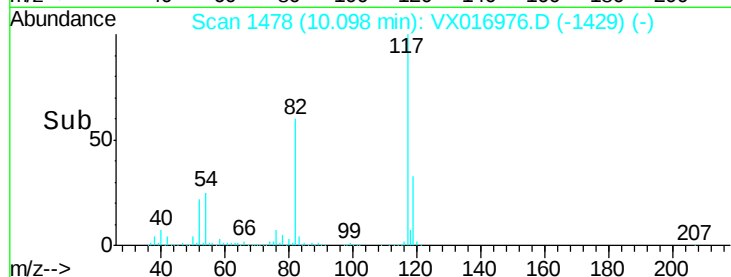
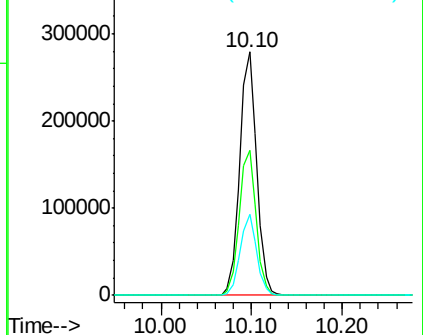
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX016976.D
Acq: 26 Jun 2020 12:27

Instrument :
MSVOA_X
ClientSampleId :
2020-06-22-TB03

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.7	46.8	70.2
119	33.1	27.3	40.9

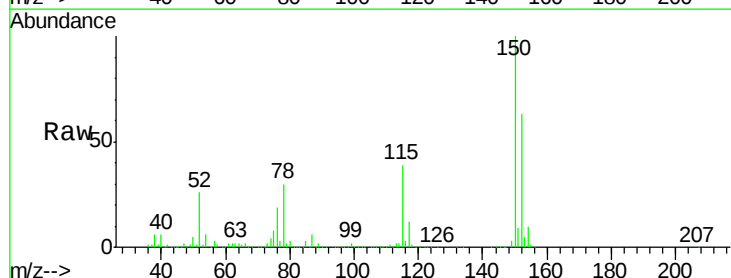


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

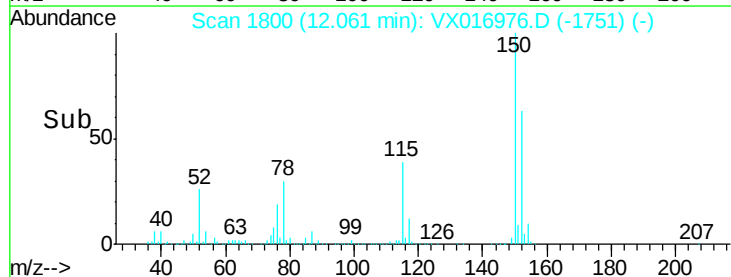
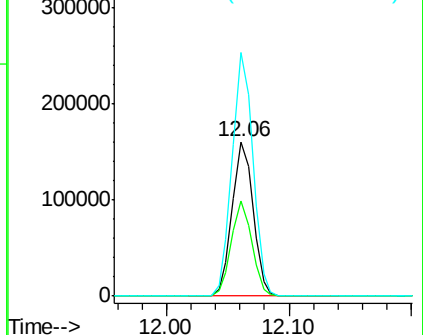


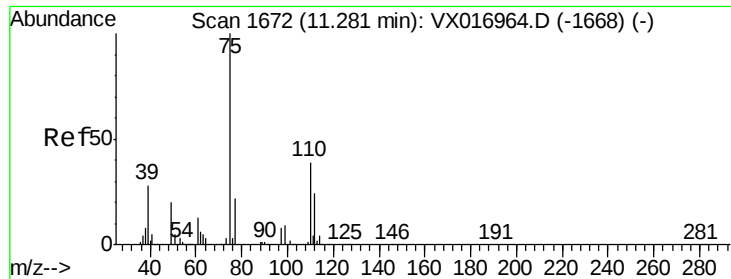
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX016976.D
Acq: 26 Jun 2020 12:27

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.6	42.8	128.4
150	156.9	0.0	347.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.479 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

Instrument :

MSVOA_X

ClientSampleId :

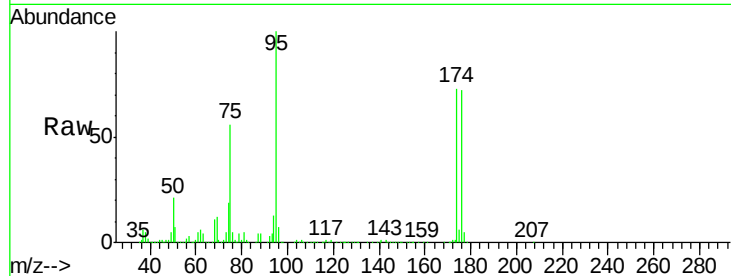
2020-06-22-TB03

Tot Ion: 75 Resp: 105606

Ion Ratio Lower Upper

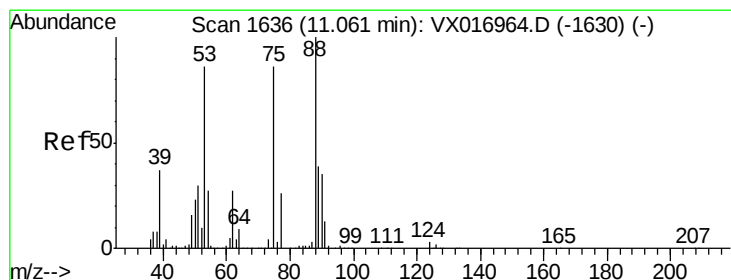
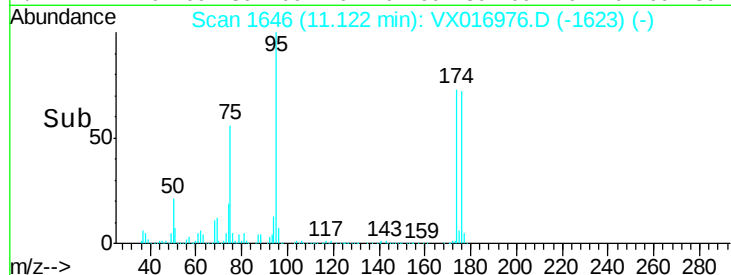
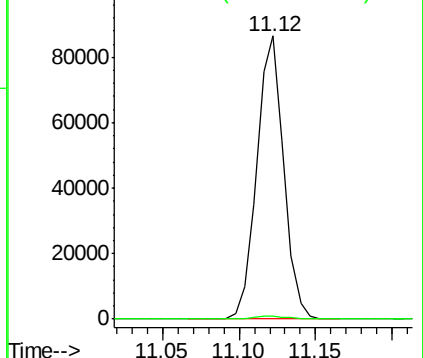
75 100

77 1.4 20.3 61.0#



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: 67.227 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

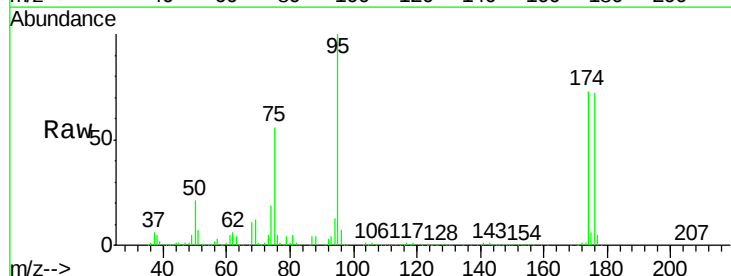
Tgt Ion: 75 Resp: 105606

Ion Ratio Lower Upper

75 100

53 0.2 81.9 122.9#

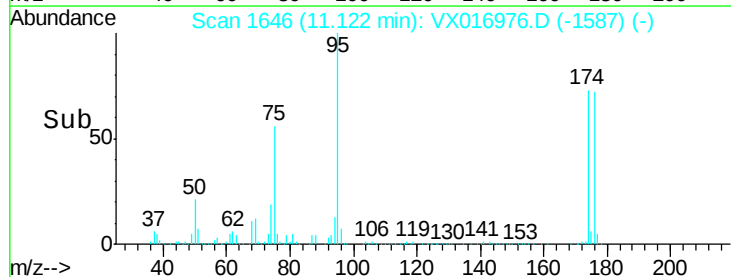
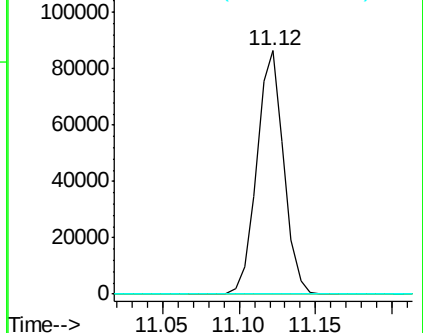
89 0.0 35.5 53.3#

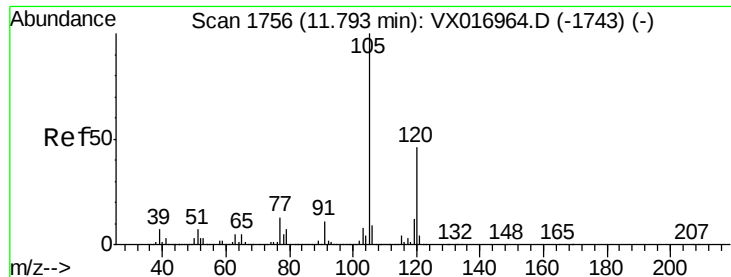


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#84

1,2,4-Trimethylbenzene

Concen: 0.312 ug/l

RT: 11.79 min Scan# 1755

Delta R.T. -0.01 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

Instrument :

MSVOA_X

ClientSampleId :

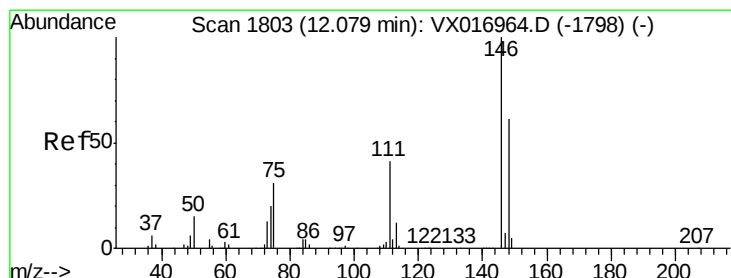
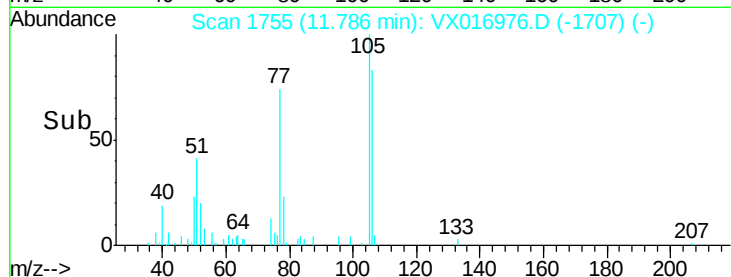
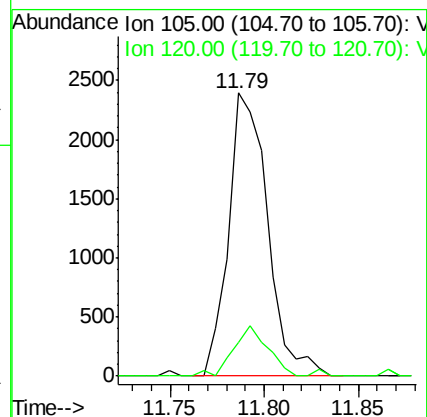
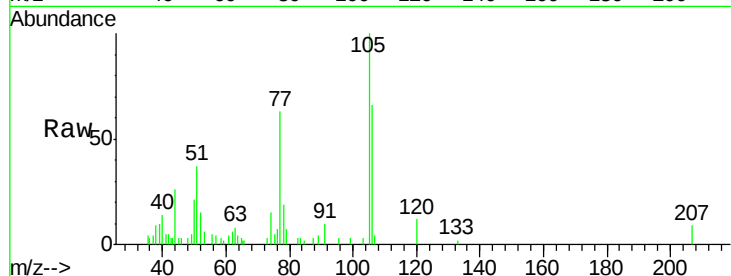
2020-06-22-TB03

Tot Ion:105 Resp: 3436

Ion Ratio Lower Upper

105 100

120 15.7 22.4 67.3#



#88

1,4-Dichlorobenzene

Concen: 0.207 ug/l

RT: 12.09 min Scan# 1804

Delta R.T. 0.01 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

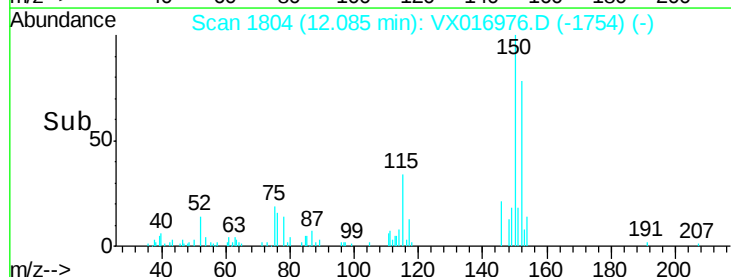
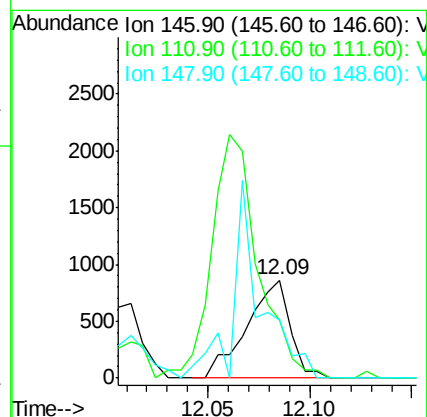
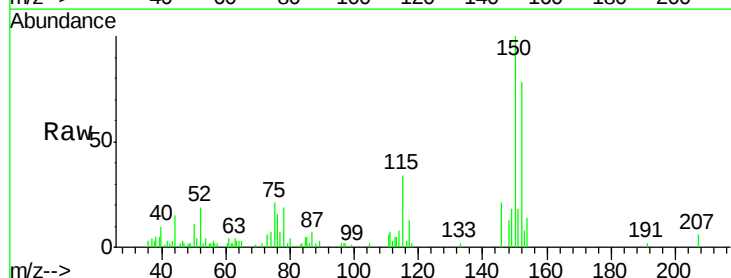
Tgt Ion:146 Resp: 1284

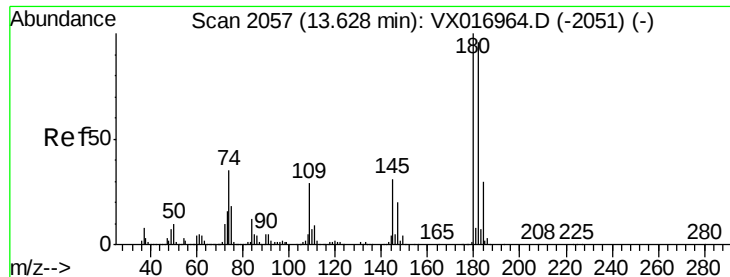
Ion Ratio Lower Upper

146 100

111 0.0 19.9 59.7#

148 0.0 31.3 93.9#





#93

1,2,4-Trichlorobenzene

Concen: 0.203 ug/l

RT: 13.63 min Scan# 2058

Delta R.T. 0.01 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

Instrument :

MSVOA_X

ClientSampleId :

2020-06-22-TB03

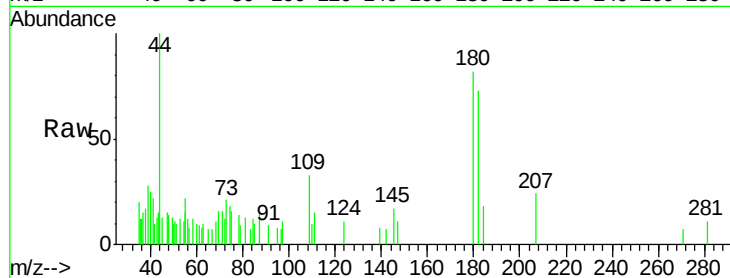
Tot Ion:180 Resp: 763

Ion Ratio Lower Upper

180 100

182 118.9 46.4 139.1

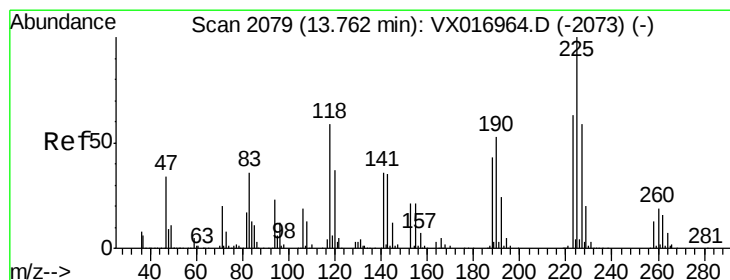
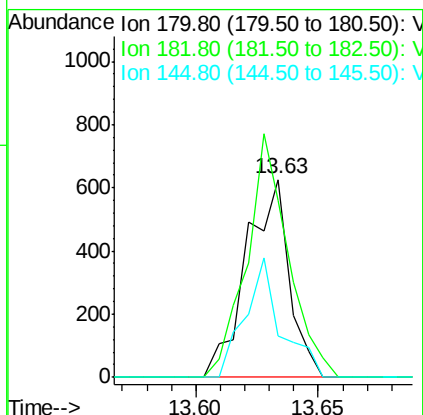
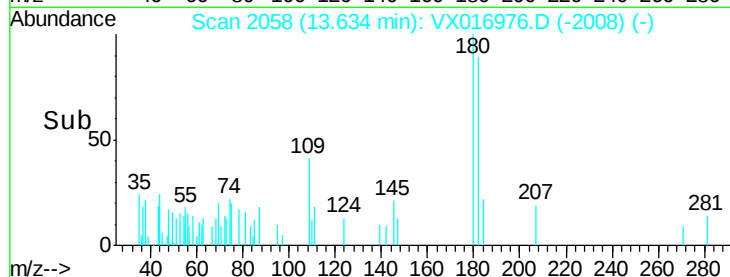
145 50.6 15.5 46.5#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 0.224 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.01 min

Lab File: VX016976.D

Acq: 26 Jun 2020 12:27

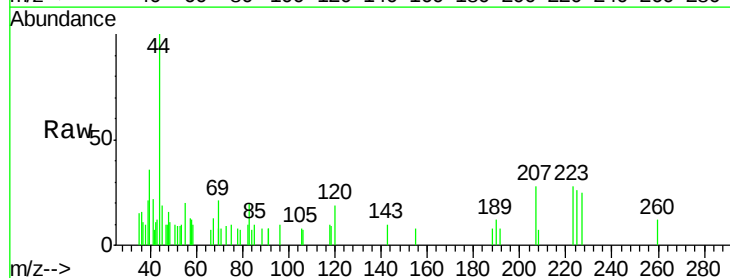
Tgt Ion:225 Resp: 303

Ion Ratio Lower Upper

225 100

223 67.0 31.1 93.2

227 81.8 30.3 90.9



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

