

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031419\
 Data File : VN054293.D
 Acq On : 15 Mar 2019 6:23
 Operator : JC/SP
 Sample : K1902-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 30282

Quant Time: Mar 15 07:03:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1234531	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2166290	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2240680	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	897380	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	692780	52.84	ug/l	0.00
Spiked Amount			Recovery	=	105.68%	
35) Dibromofluoromethane	7.59	113	668266	47.83	ug/l	0.00
Spiked Amount			Recovery	=	95.66%	
50) Toluene-d8	10.09	98	2689057	52.11	ug/l	0.00
Spiked Amount			Recovery	=	104.22%	
62) 4-Bromofluorobenzene	12.40	95	987530	54.70	ug/l	0.00
Spiked Amount			Recovery	=	109.40%	

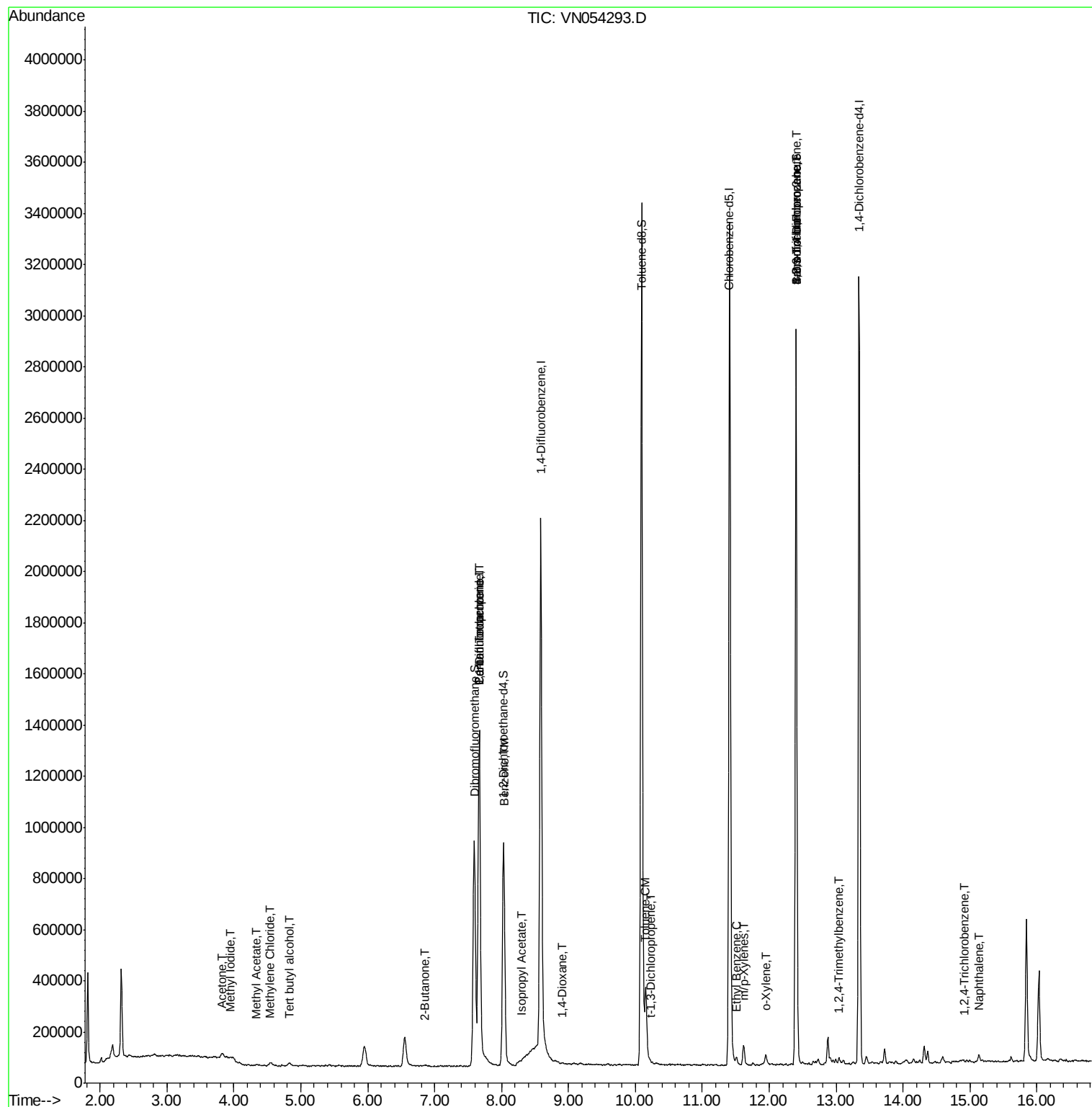
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.94	142	317	1.514	ug/l #	56
11) Tert butyl alcohol	4.83	59	7868	8.754	ug/l #	78
16) Acetone	3.82	43	29584	7.881	ug/l	97
18) Methyl Acetate	4.34	43	3362	0.443	ug/l	94
20) Methylene Chloride	4.54	84	8774	0.712	ug/l	95
25) 2-Butanone	6.85	43	1187	0.269	ug/l #	83
31) Cyclohexane	7.66	56	21967	Below Cal	#	5
36) 1,1-Dichloropropene	7.66	75	75962	3.808	ug/l #	48
38) Carbon Tetrachloride	7.67	117	104088	4.975	ug/l #	16
40) Benzene	8.04	78	141593	2.480	ug/l	98
43) Isopropyl Acetate	8.29	43	24657	1.225	ug/l #	60
49) 1,4-Dioxane	8.91	88	30	0.208	ug/l #	1
52) Toluene	10.16	92	115672	3.196	ug/l	99
53) t-1,3-Dichloropropene	10.24	75	65	1.989	ug/l #	42
67) Ethyl Benzene	11.51	91	17224	0.211	ug/l	91
68) m/p-Xylenes	11.62	106	27875	0.874	ug/l	99
69) o-Xylene	11.95	106	9970	0.321	ug/l	97
71) Bromoform	12.40	173	5955	2.767	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	477592	36.191	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	477592	123.717	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.04	105	15870	0.271	ug/l	91
93) 1,2,4-Trichlorobenzene	14.91	180	349	2.534	ug/l #	41
95) Naphthalene	15.13	128	24770	4.055	ug/l	95

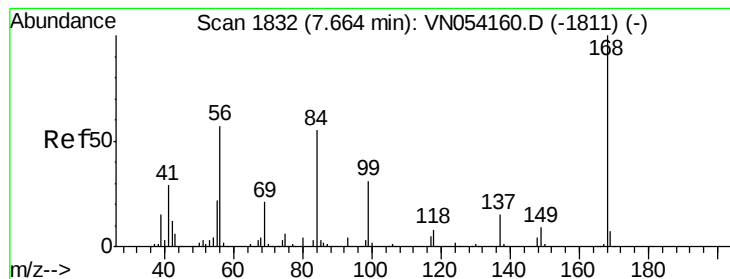
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 15 07:03:38 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054293.D

Acq: 15 Mar 2019 6:23

Instrument :

MSVOA_N

ClientSampled :

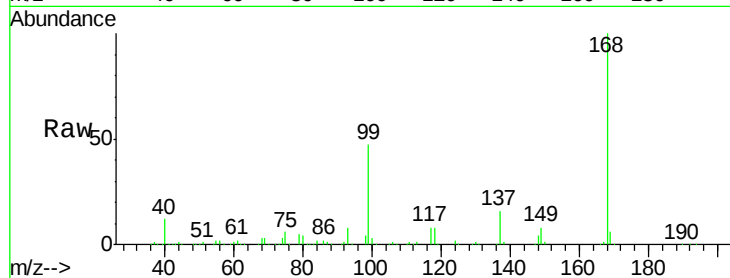
30282

Tot Ion:168 Resp: 1234531

Ion Ratio Lower Upper

168 100

99 47.2 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.67

600000

500000

400000

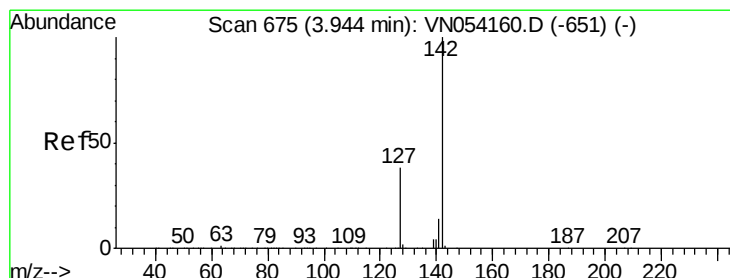
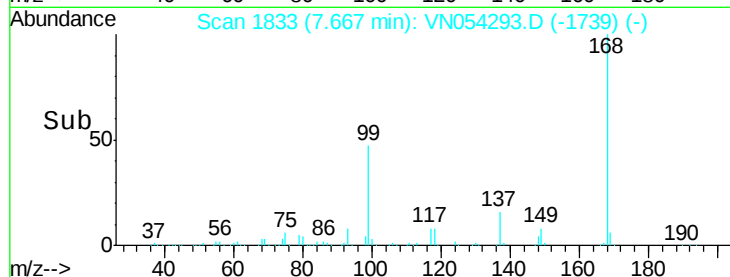
300000

200000

100000

0

Time-->



#10

Methyl Iodide

Concen: 1.514 ug/l

RT: 3.94 min Scan# 674

Delta R.T. -0.00 min

Lab File: VN054293.D

Acq: 15 Mar 2019 6:23

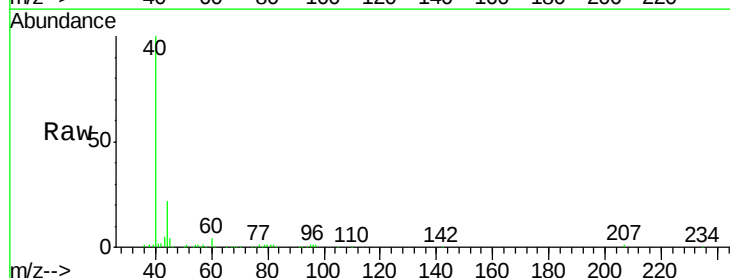
Tgt Ion:142 Resp: 317

Ion Ratio Lower Upper

142 100

127 9.1 30.3 45.5#

141 0.0 11.2 16.8#



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

3.94

400

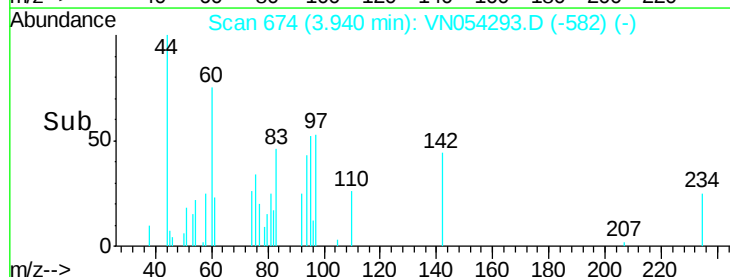
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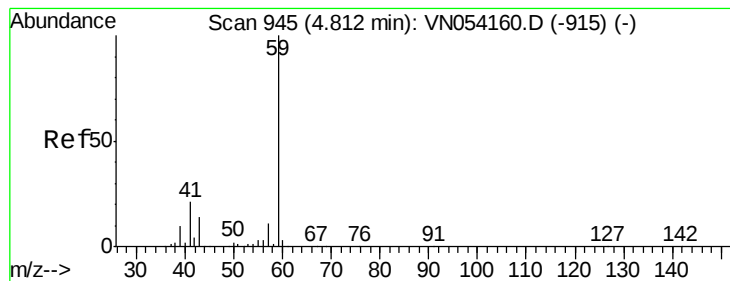
200

100

0

Time-->



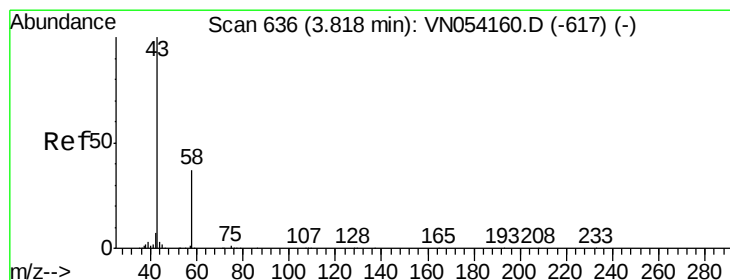
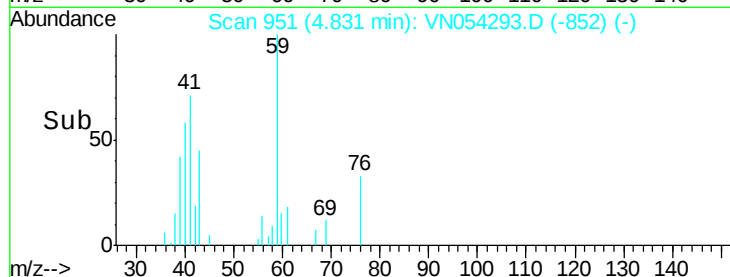
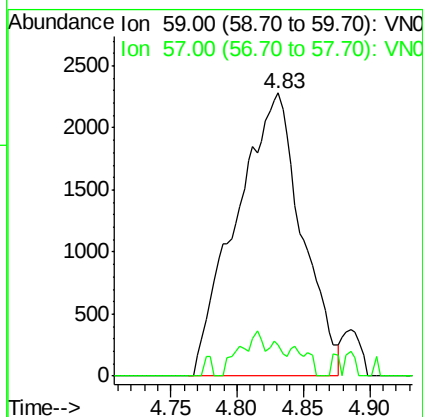
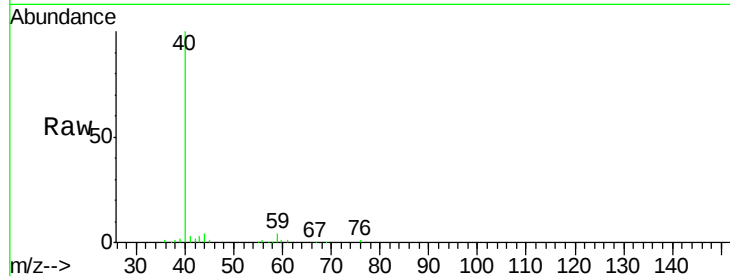


#11

Tert butyl alcohol
 Concen: 8.754 ug/l
 RT: 4.83 min Scan# 951
 Delta R.T. 0.02 min
 Lab File: VN054293.D
 Acq: 15 Mar 2019 6:23

Instrument :
 MSVOA_N
 ClientSampled :
 30282

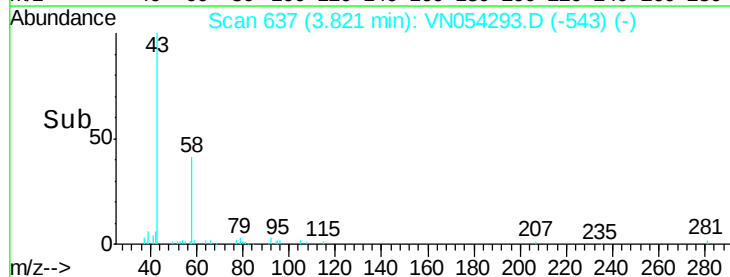
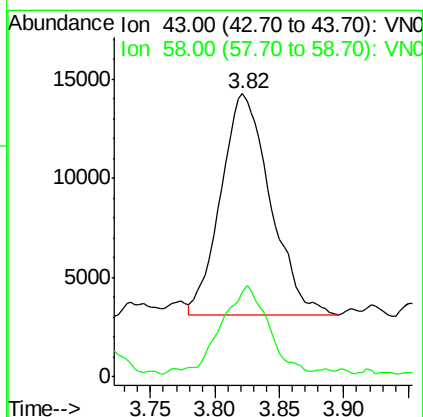
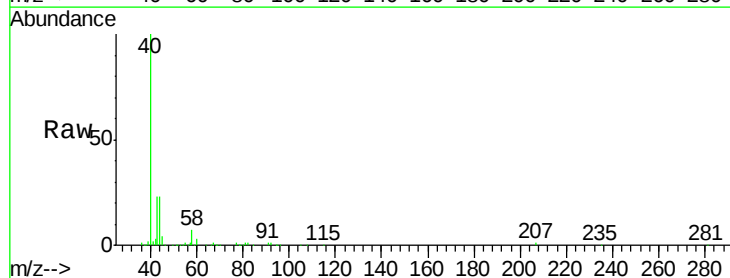
Tot Ion: 59 Resp: 7868
 Ion Ratio Lower Upper
 59 100
 57 2.8 9.0 13.6#

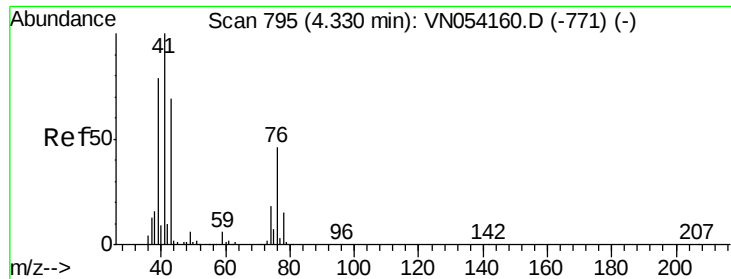


#16

Acetone
 Concen: 7.881 ug/l
 RT: 3.82 min Scan# 637
 Delta R.T. 0.00 min
 Lab File: VN054293.D
 Acq: 15 Mar 2019 6:23

Tgt Ion: 43 Resp: 29584
 Ion Ratio Lower Upper
 43 100
 58 35.6 29.9 44.9

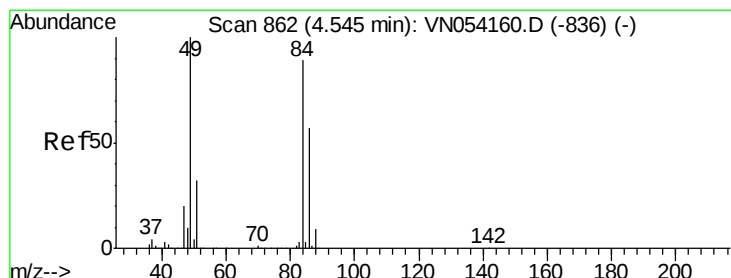
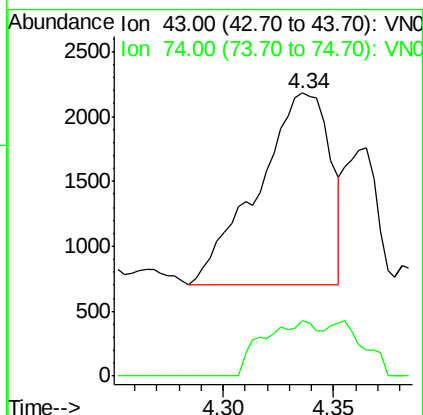
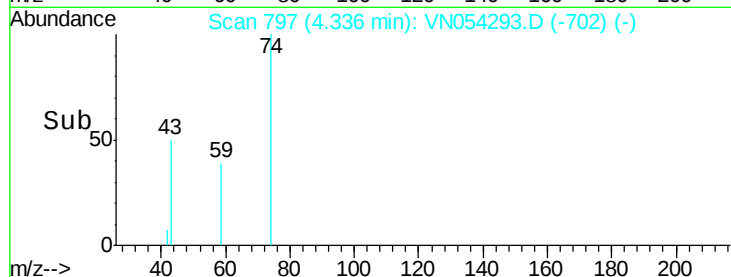
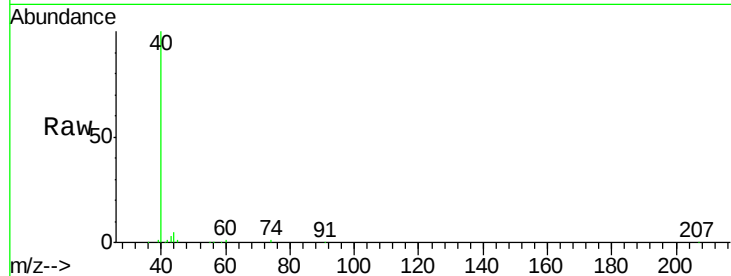




#18
Methyl Acetate
Concen: 0.443 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN054293.D
Acq: 15 Mar 2019 6:23

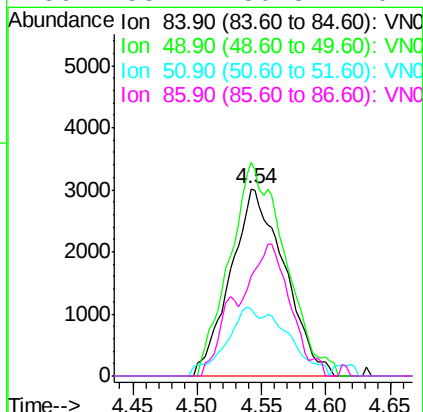
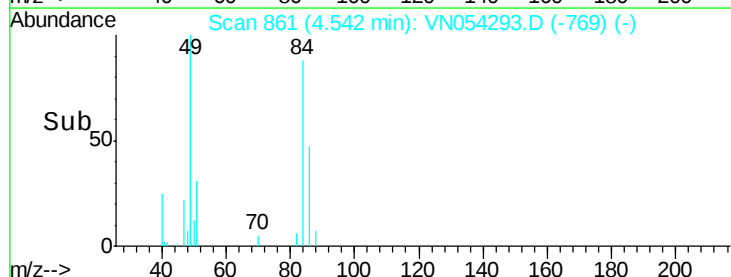
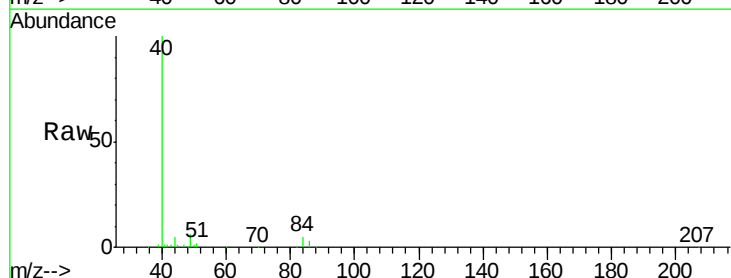
Instrument :
MSVOA_N
ClientSampled :
30282

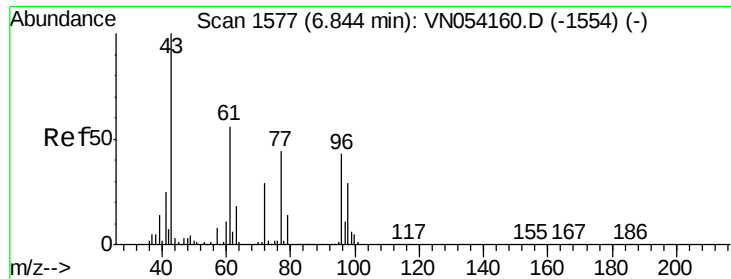
Tot Ion: 43 Resp: 3362
Ion Ratio Lower Upper
43 100
74 23.1 20.8 31.2



#20
Methylene Chloride
Concen: 0.712 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.00 min
Lab File: VN054293.D
Acq: 15 Mar 2019 6:23

Tgt Ion: 84 Resp: 8774
Ion Ratio Lower Upper
84 100
49 114.1 89.7 134.5
51 35.4 28.2 42.4
86 53.1 50.8 76.2





#25

2-Butanone

Concen: 0.269 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VN054293.D

Acq: 15 Mar 2019 6:23

Instrument :

MSVOA_N

ClientSampled :

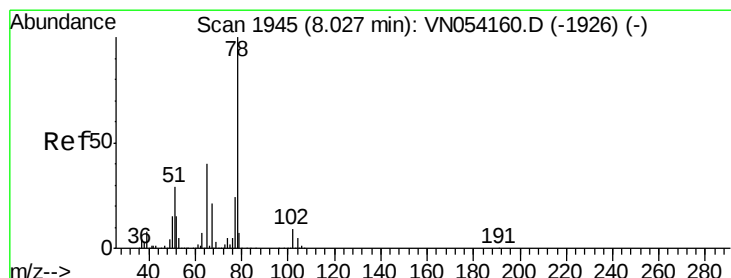
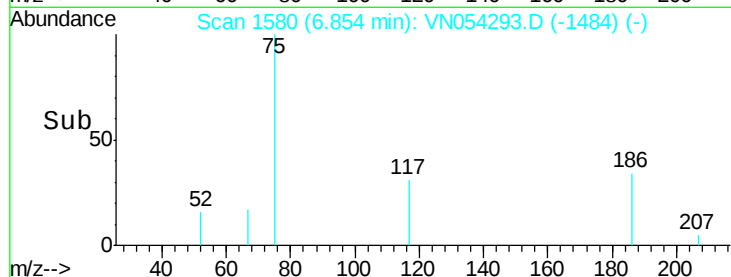
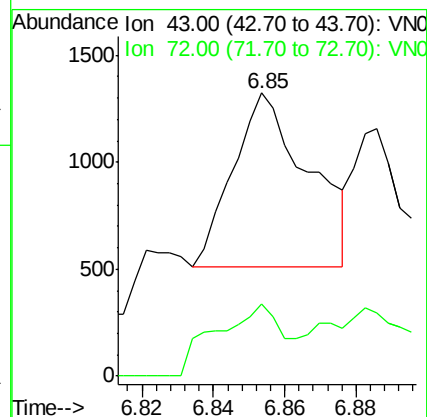
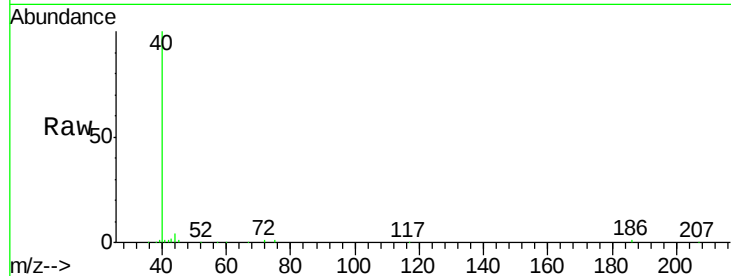
30282

Tot Ion: 43 Resp: 1187

Ion Ratio Lower Upper

43 100

72 19.8 23.0 34.6#



#33

1,2-Dichloroethane-d4

Concen: 52.841 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054293.D

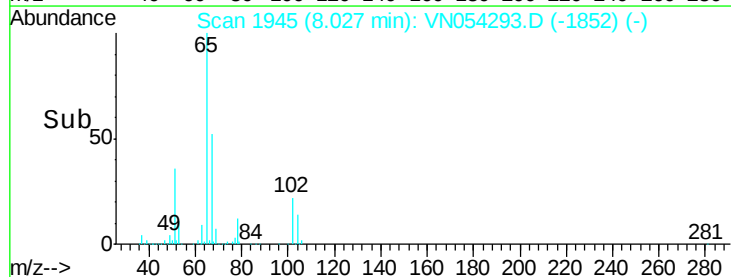
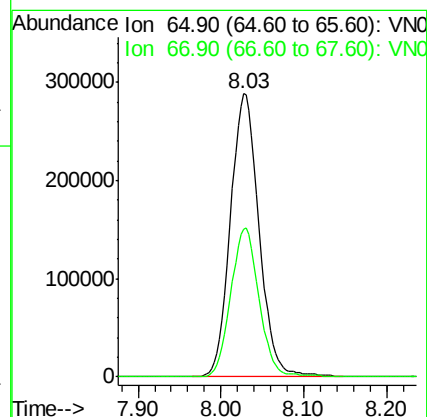
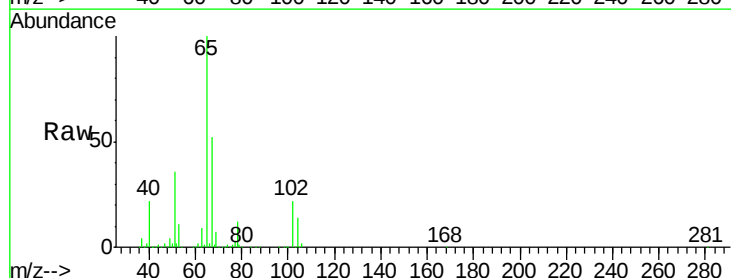
Acq: 15 Mar 2019 6:23

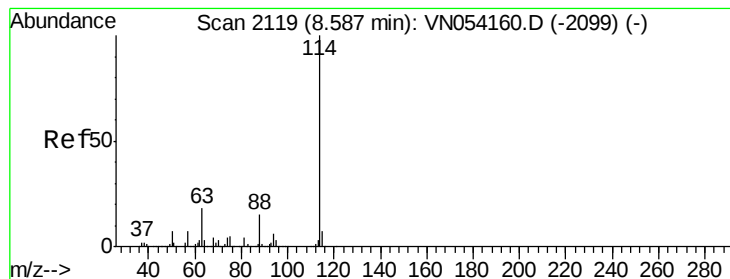
Tgt Ion: 65 Resp: 692780

Ion Ratio Lower Upper

65 100

67 51.7 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054293.D

Acq: 15 Mar 2019 6:23

Instrument :

MSVOA_N

ClientSampleId :

30282

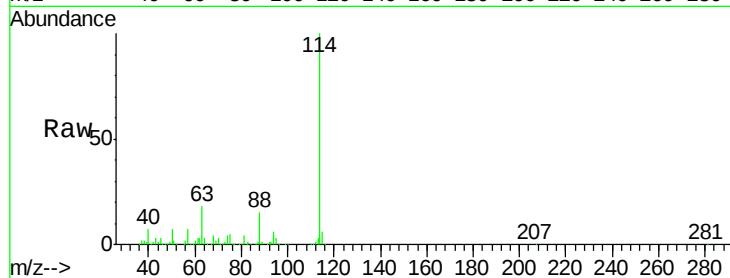
Tot Ion:114 Resp: 2166290

Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.2

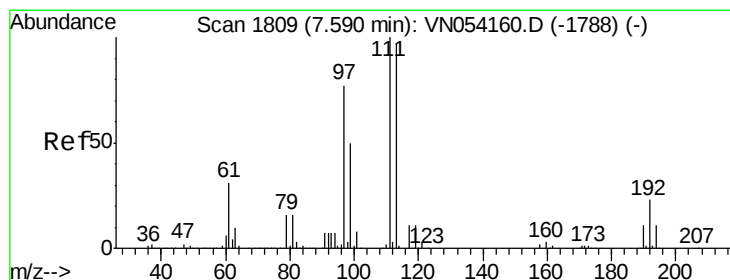
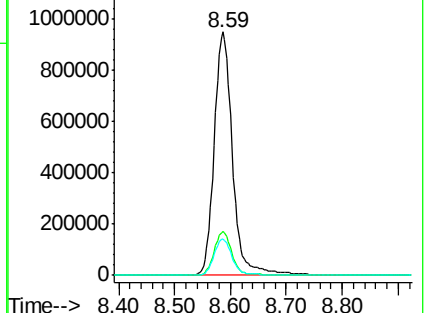
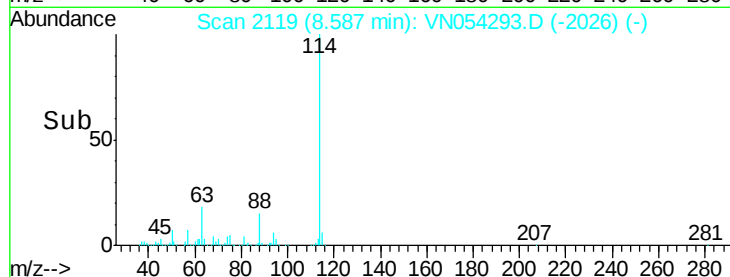
88 15.2 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 47.830 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054293.D

Acq: 15 Mar 2019 6:23

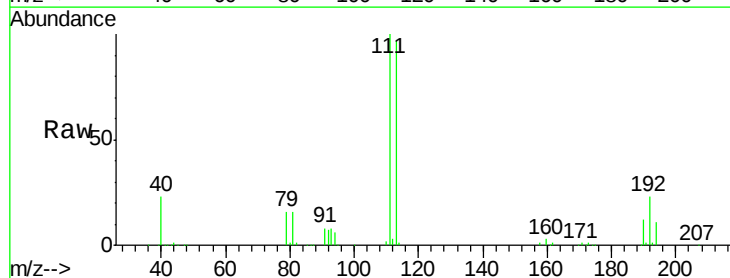
Tgt Ion:113 Resp: 668266

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

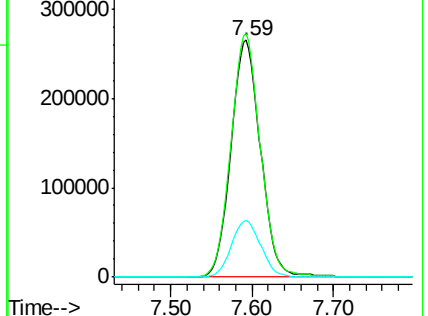
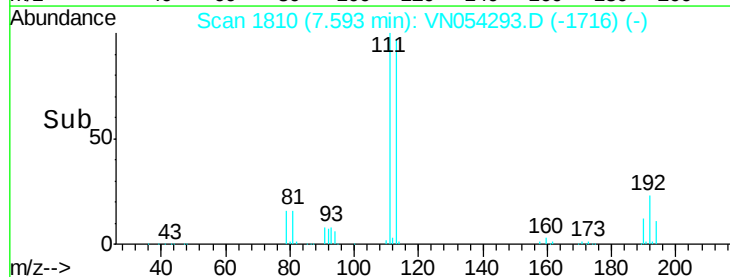
192 24.0 19.2 28.8

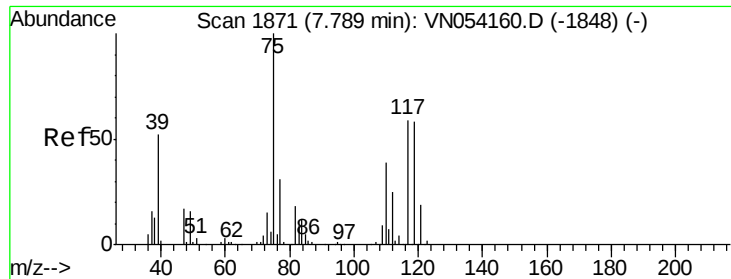


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

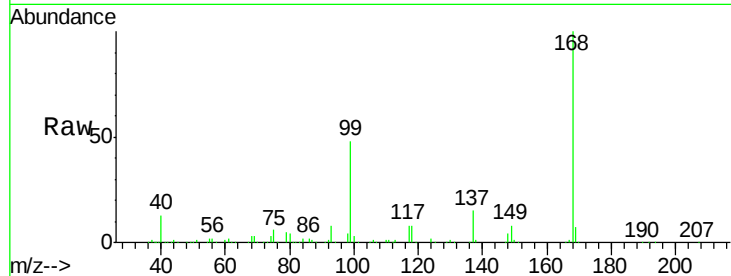




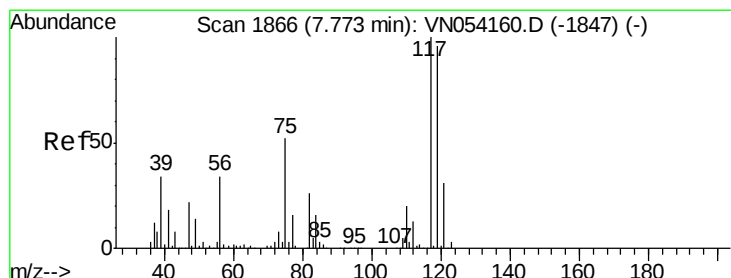
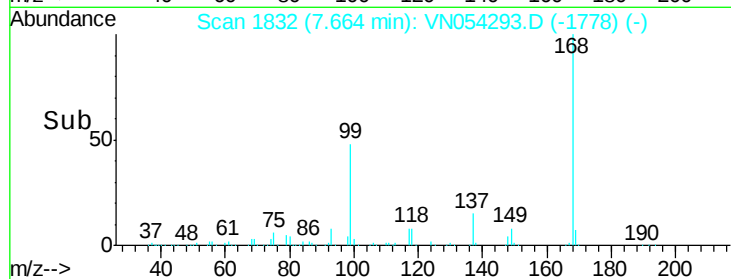
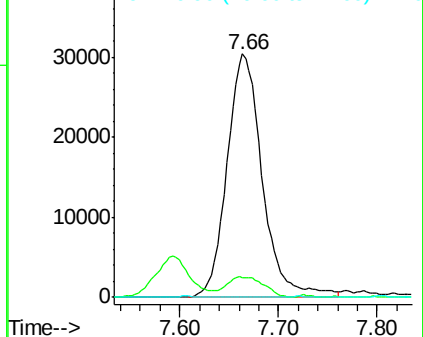
#36
 1,1-Dichloropropene
 Concen: 3.808 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054293.D
 Acq: 15 Mar 2019 6:23

Instrument :
 MSVOA_N
 ClientSampled :
 30282

Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	19.1	57.5#
77	0.0	25.0	37.4#

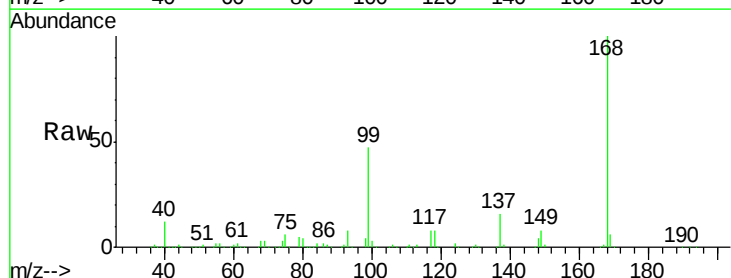


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

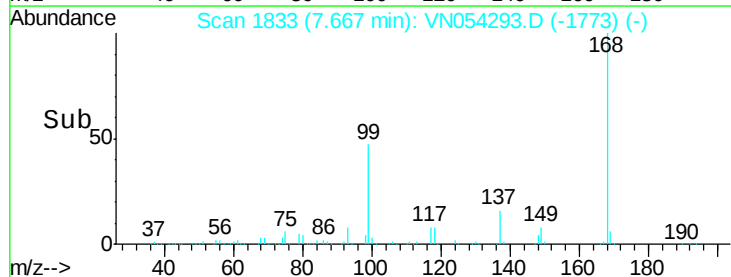
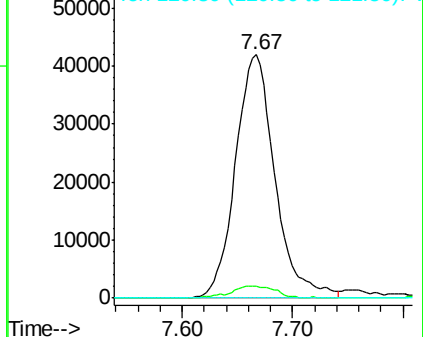


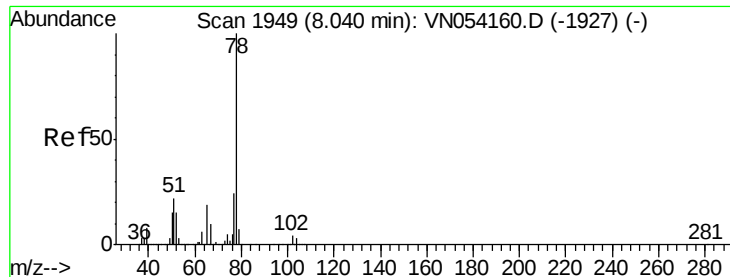
#38
 Carbon Tetrachloride
 Concen: 4.975 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054293.D
 Acq: 15 Mar 2019 6:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	76.3	114.5#
121	0.0	24.6	36.8#



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





#40

Benzene

Concen: 2.480 ug/l

RT: 8.04 min Scan# 1950

Delta R.T. 0.00 min

Lab File: VN054293.D

Acq: 15 Mar 2019 6:23

Instrument :

MSVOA_N

ClientSampleId :

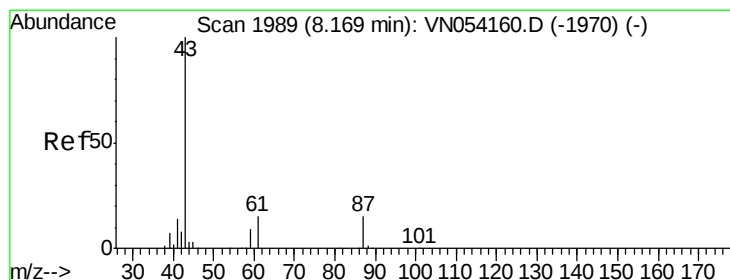
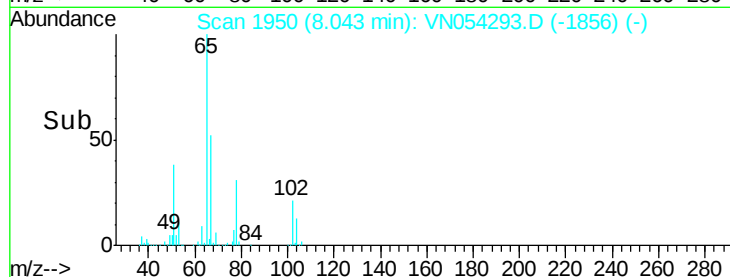
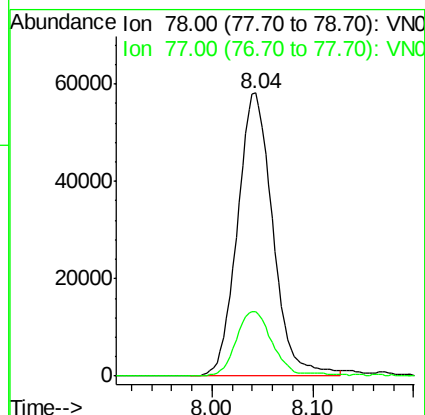
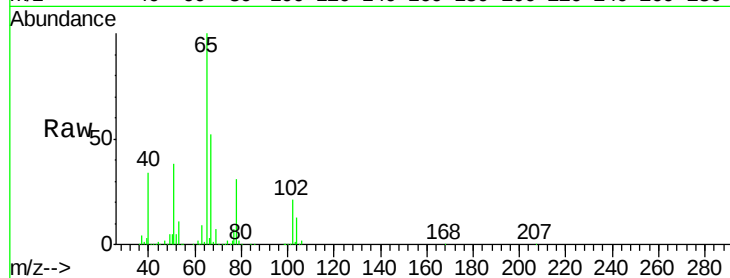
30282

Tot Ion: 78 Resp: 141593

Ion Ratio Lower Upper

78 100

77 23.0 19.1 28.7



#43

Isopropyl Acetate

Concen: 1.225 ug/l

RT: 8.29 min Scan# 2026

Delta R.T. 0.12 min

Lab File: VN054293.D

Acq: 15 Mar 2019 6:23

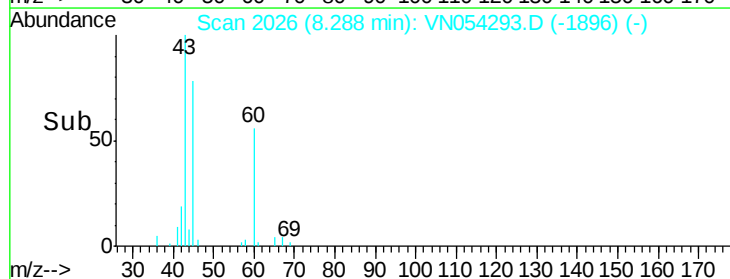
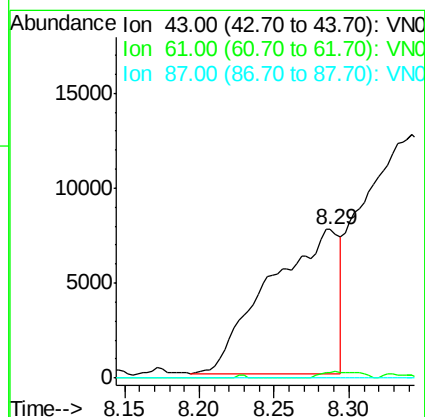
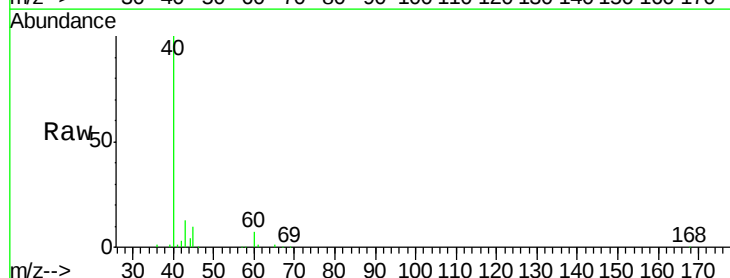
Tgt Ion: 43 Resp: 24657

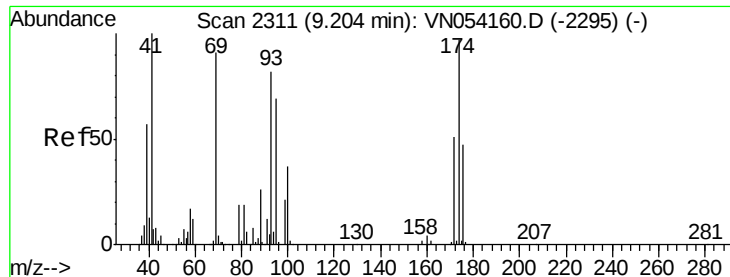
Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

87 0.0 12.0 18.0#

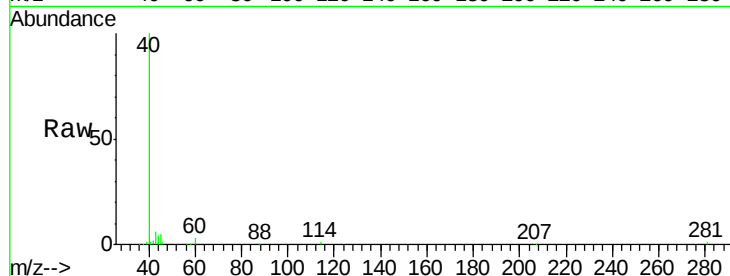




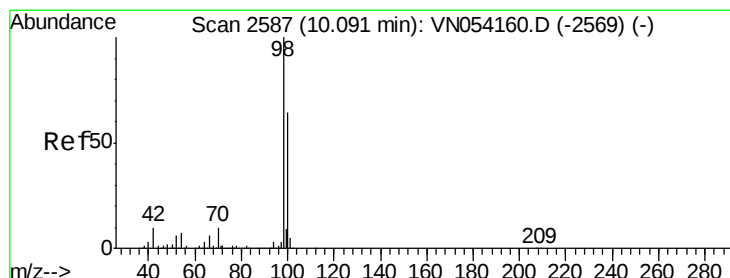
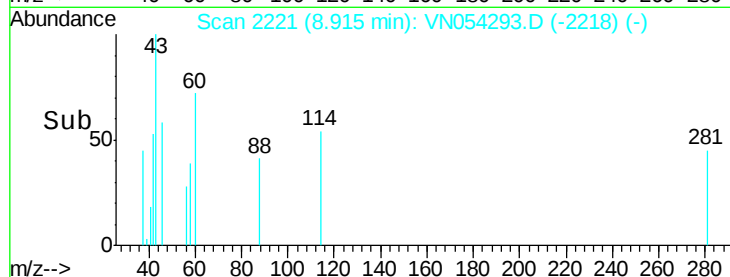
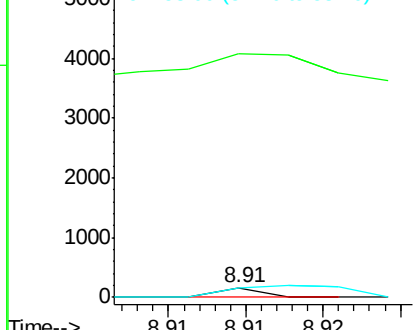
#49
1,4-Dioxane
Concen: 0.208 ug/l
RT: 8.91 min Scan# 2221
Delta R.T. -0.29 min
Lab File: VN054293.D
Acq: 15 Mar 2019 6:23

Instrument :
MSVOA_N
ClientSampled :
30282

Tot Ion: 88 Resp: 30
Ion Ratio Lower Upper
88 100
43 0.0 24.1 36.1#
58 333.3 50.8 76.2#

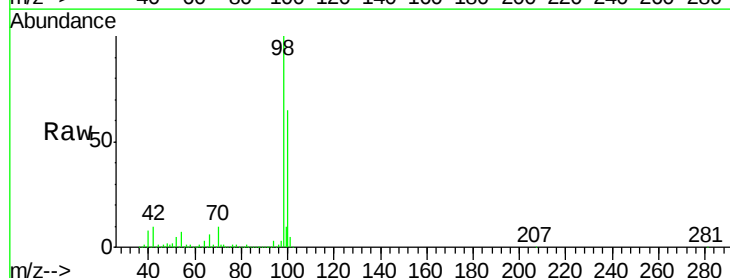


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

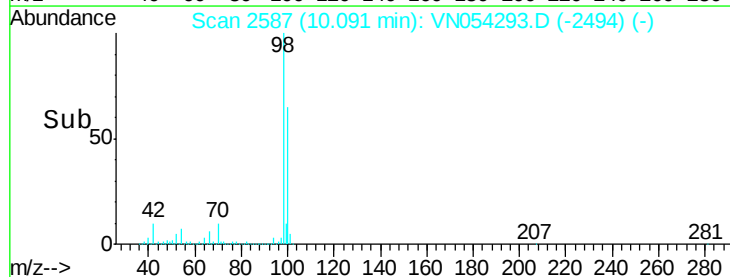
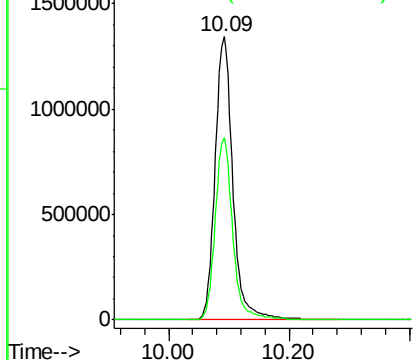


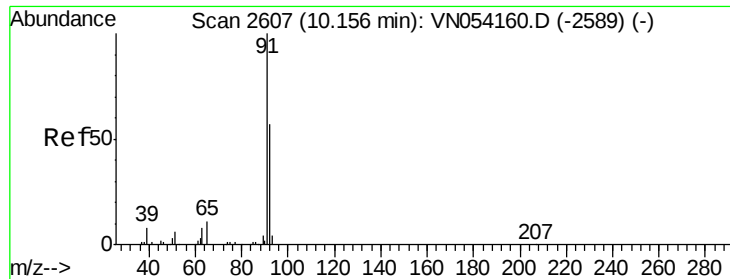
#50
Toluene-d8
Concen: 52.114 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054293.D
Acq: 15 Mar 2019 6:23

Tgt Ion: 98 Resp: 2689057
Ion Ratio Lower Upper
98 100
100 63.7 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#52

Toluene

Concen: 3.196 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054293.D

Acq: 15 Mar 2019 6:23

Instrument :

MSVOA_N

ClientSampleId :

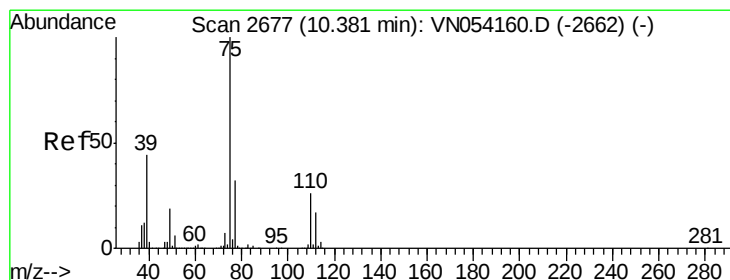
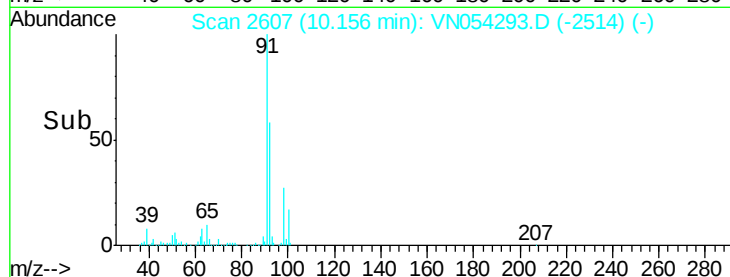
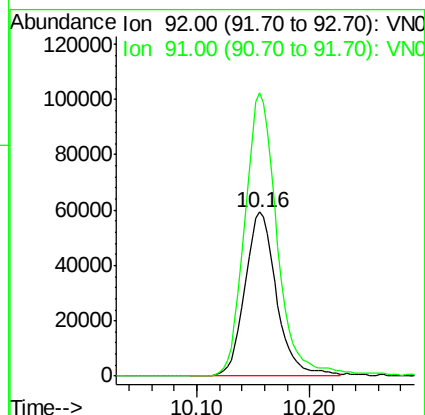
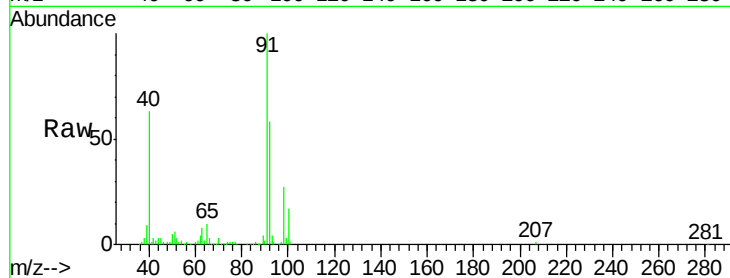
30282

Tot Ion: 92 Resp: 115672

Ion Ratio Lower Upper

92 100

91 177.8 140.7 211.1



#53

t-1,3-Dichloropropene

Concen: 1.989 ug/l

RT: 10.24 min Scan# 2634

Delta R.T. -0.14 min

Lab File: VN054293.D

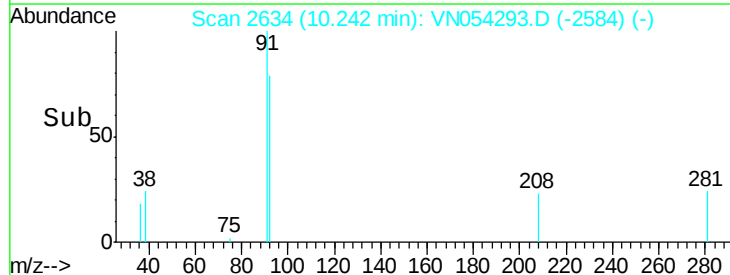
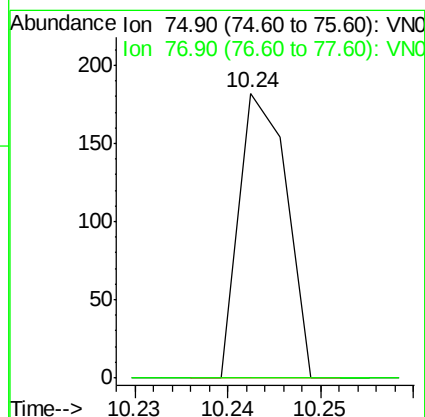
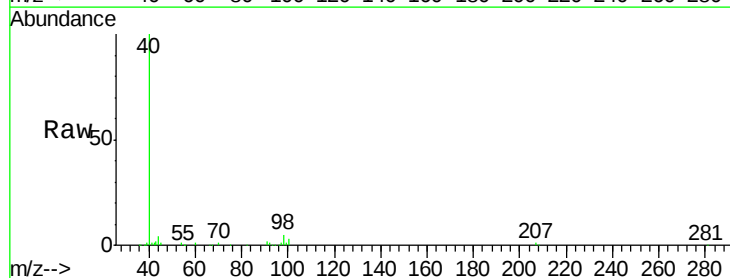
Acq: 15 Mar 2019 6:23

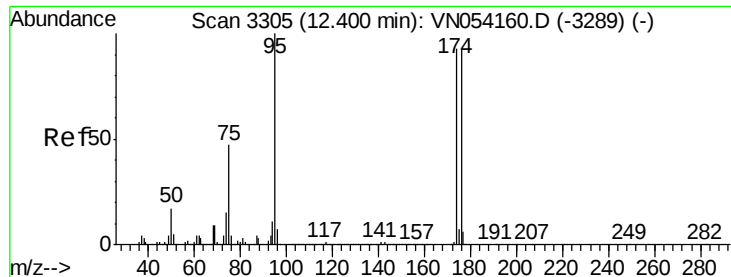
Tgt Ion: 75 Resp: 65

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#





#62

4-Bromofluorobenzene

Concen: 54.697 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054293.D

Acq: 15 Mar 2019 6:23

Instrument :

MSVOA_N

ClientSampleId :

30282

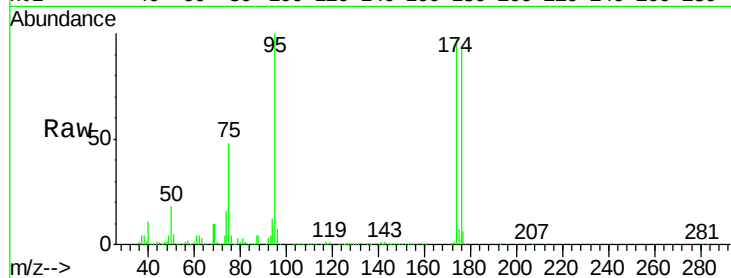
Tot Ion: 95 Resp: 987530

Ion Ratio Lower Upper

95 100

174 98.6 0.0 191.0

176 95.1 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054293.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN054293.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN054293.D (-2903) (-)

12.40

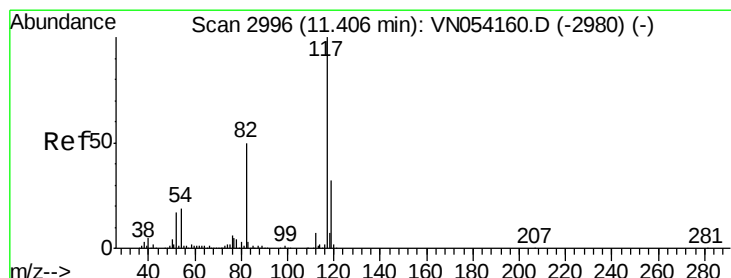
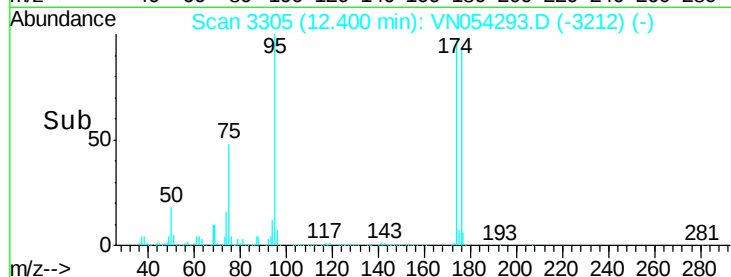
600000

400000

200000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054293.D

Acq: 15 Mar 2019 6:23

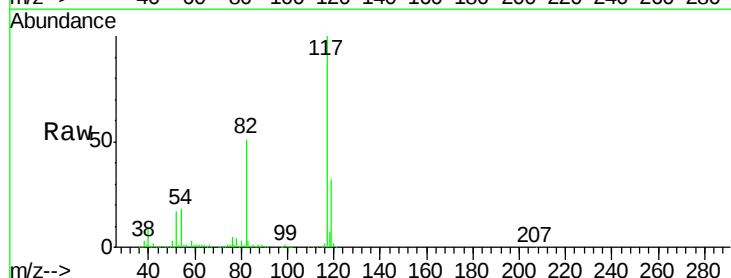
Tgt Ion: 117 Resp: 2240680

Ion Ratio Lower Upper

117 100

82 50.9 40.0 60.0

119 32.3 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN054293.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054293.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054293.D (-2903) (-)

11.41

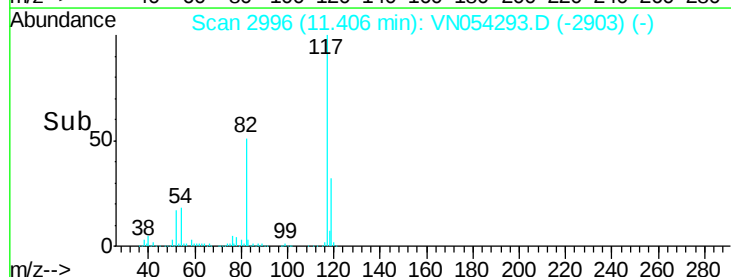
1500000

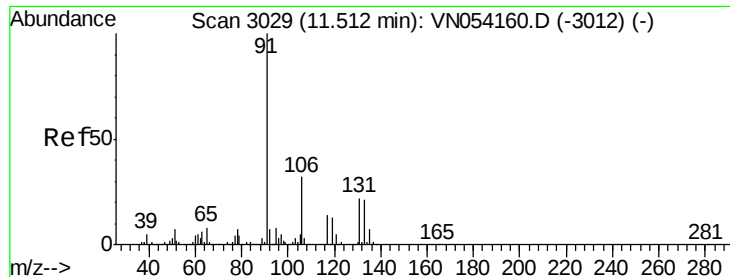
1000000

500000

0

Time-->

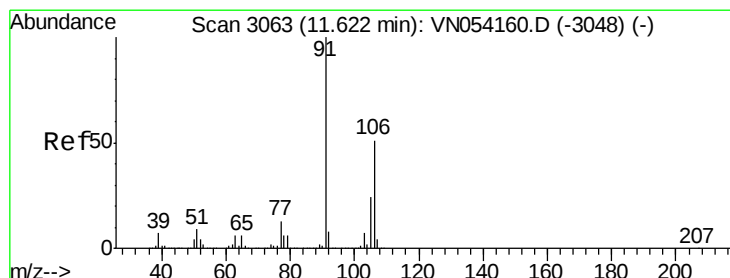
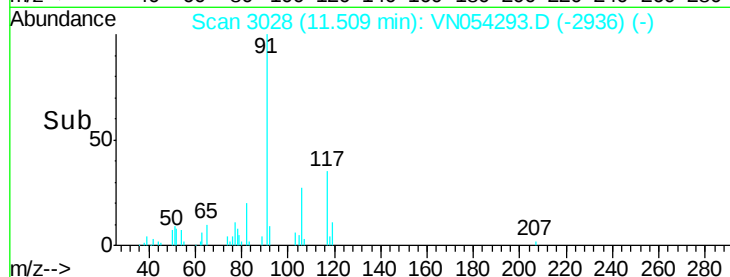
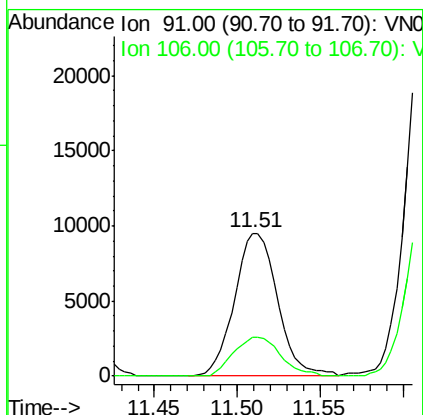
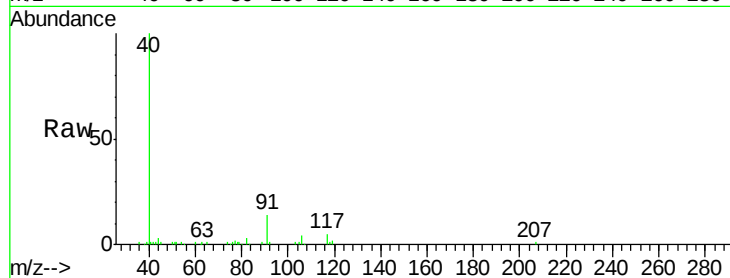




#67
Ethyl Benzene
Concen: 0.211 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN054293.D
Acq: 15 Mar 2019 6:23

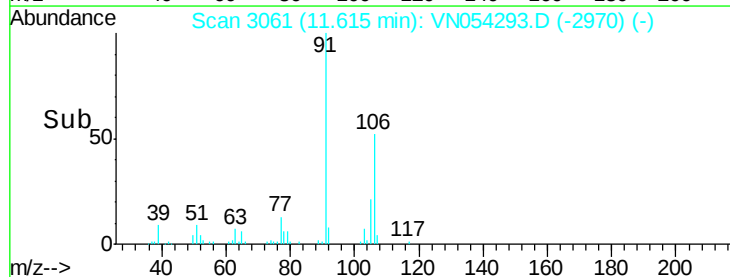
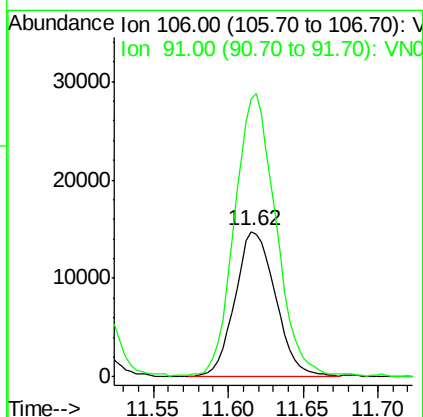
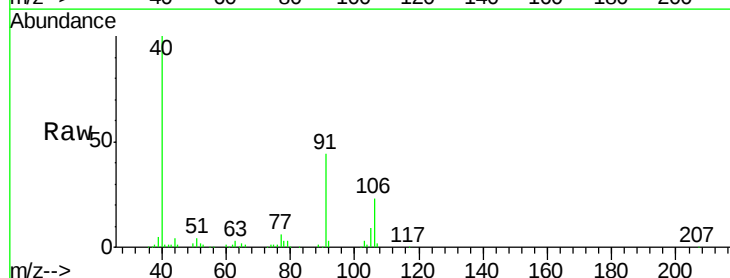
Instrument :
MSVOA_N
ClientSampled :
30282

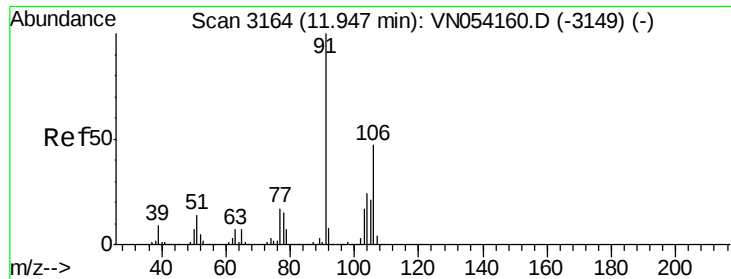
Tot Ion: 91 Resp: 17224
Ion Ratio Lower Upper
91 100
106 26.9 25.5 38.3



#68
m/p-Xylenes
Concen: 0.874 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.01 min
Lab File: VN054293.D
Acq: 15 Mar 2019 6:23

Tgt Ion: 106 Resp: 27875
Ion Ratio Lower Upper
106 100
91 200.1 159.4 239.2





#69

o-Xylene

Concen: 0.321 ug/l

RT: 11.95 min Scan# 3165

Delta R.T. 0.00 min

Lab File: VN054293.D

Acq: 15 Mar 2019 6:23

Instrument :

MSVOA_N

ClientSampleId :

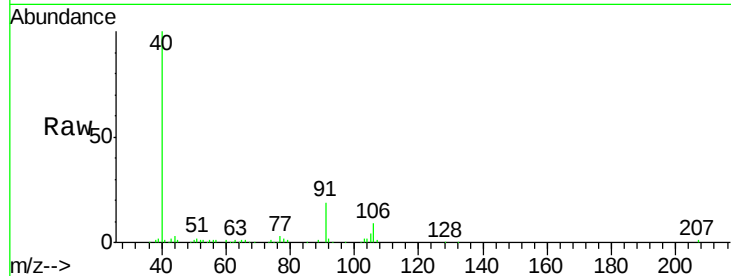
30282

Tot Ion:106 Resp: 9970

Ion Ratio Lower Upper

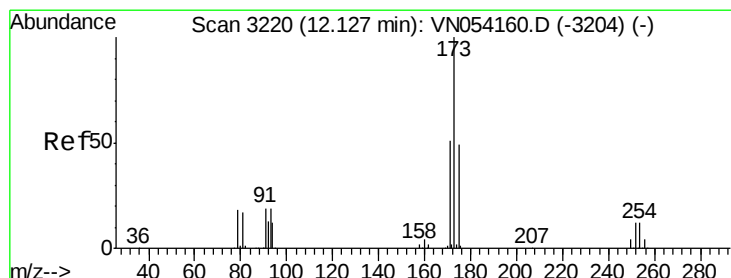
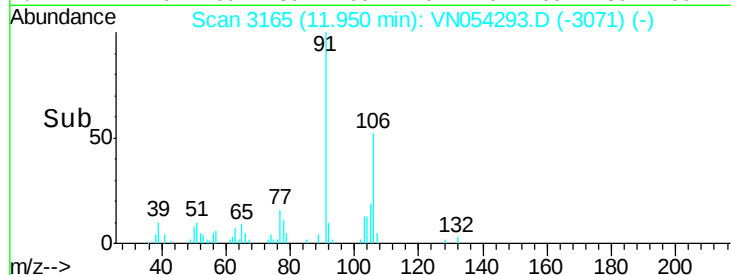
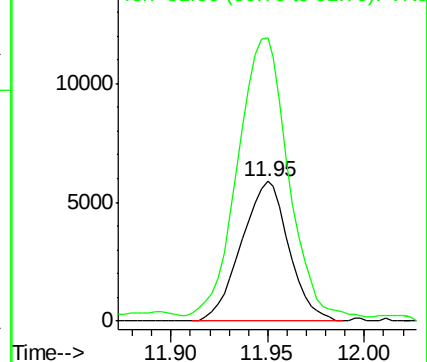
106 100

91 215.4 105.7 317.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#71

Bromoform

Concen: 2.767 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054293.D

Acq: 15 Mar 2019 6:23

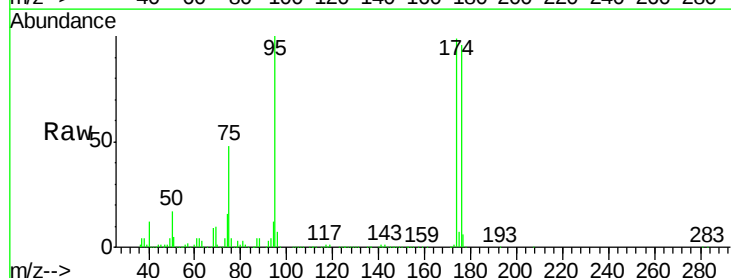
Tgt Ion:173 Resp: 5955

Ion Ratio Lower Upper

173 100

175 1039.2 24.4 73.2#

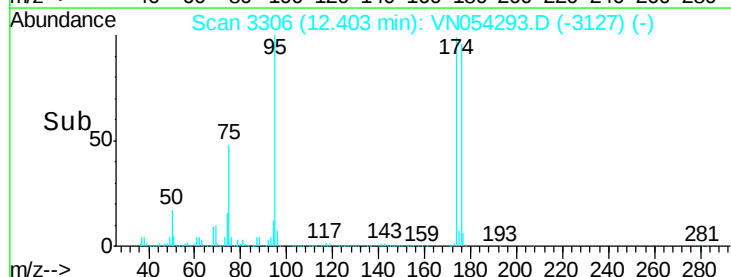
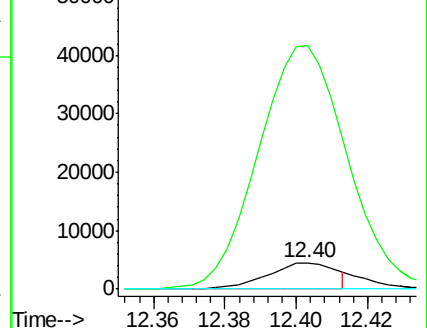
254 0.0 0.1 0.1#

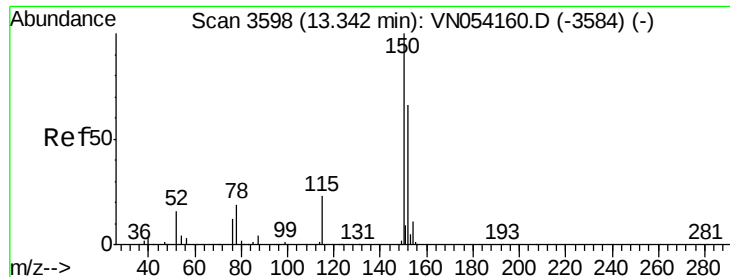


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054293.D

Acq: 15 Mar 2019 6:23

Instrument :

MSVOA_N

ClientSampleId :

30282

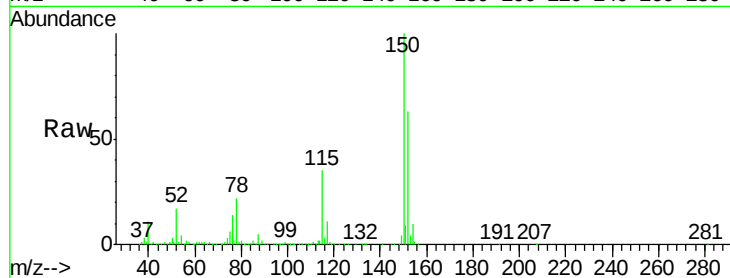
Tot Ion:152 Resp: 897380

Ion Ratio Lower Upper

152 100

115 55.1 27.2 81.6

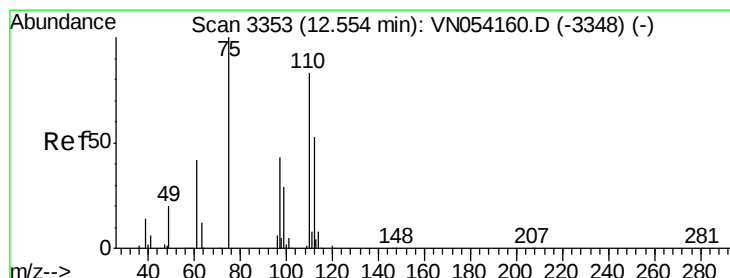
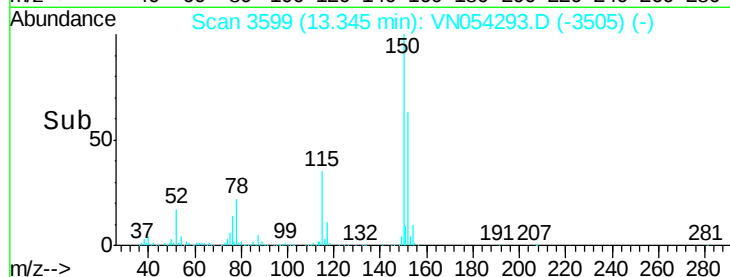
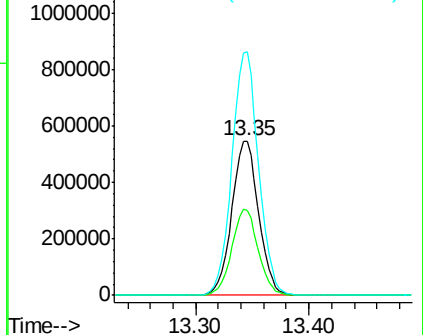
150 157.3 0.0 349.2



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: 36.191 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054293.D

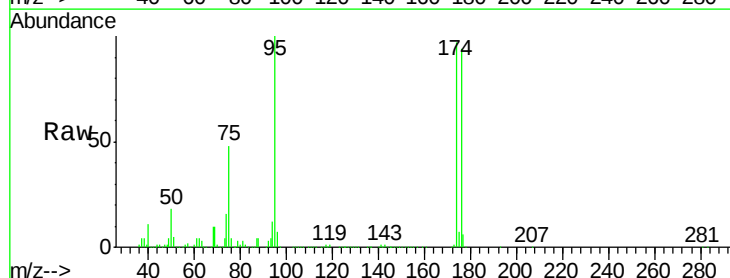
Acq: 15 Mar 2019 6:23

Tgt Ion: 75 Resp: 477592

Ion Ratio Lower Upper

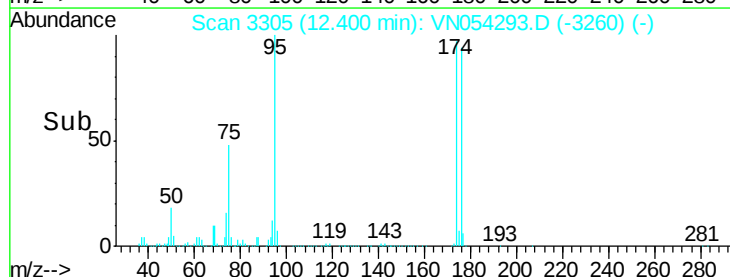
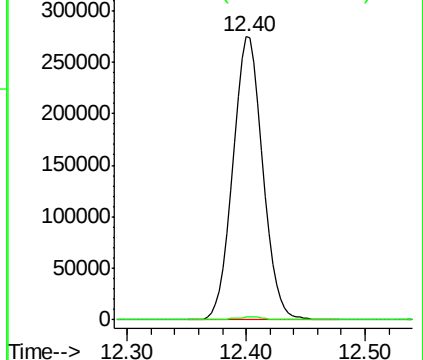
75 100

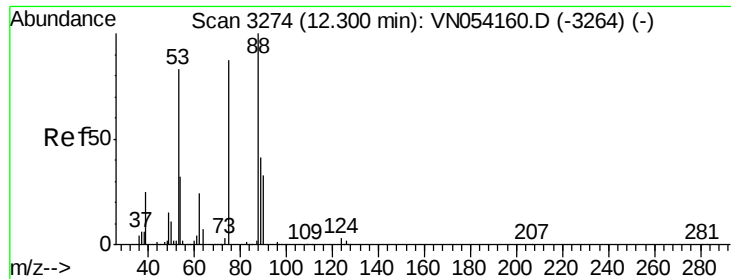
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 123.717 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054293.D

Acq: 15 Mar 2019 6:23

Instrument :

MSVOA_N

ClientSampled :

30282

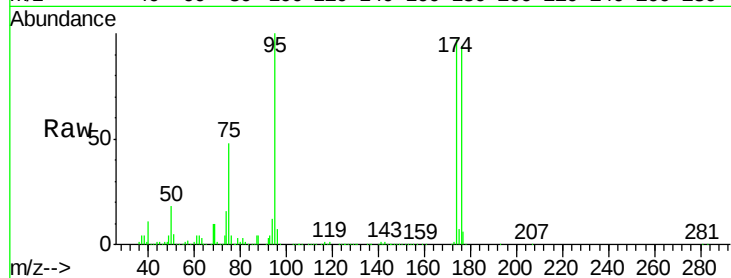
Tot Ion: 75 Resp: 477592

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

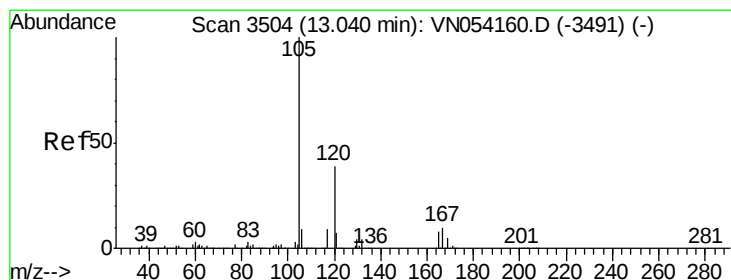
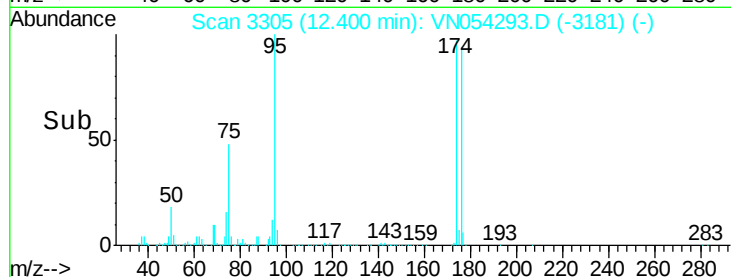
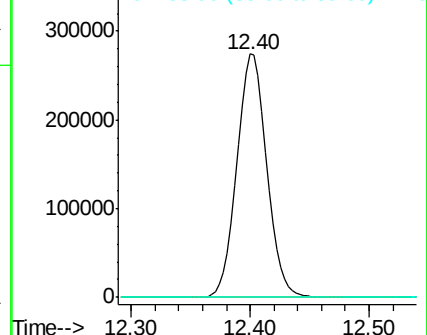
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054293.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN054293.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN054293.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.271 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054293.D

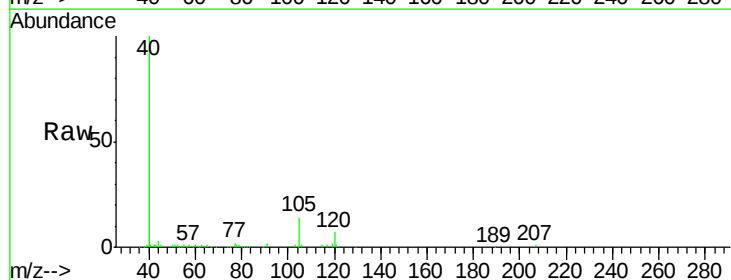
Acq: 15 Mar 2019 6:23

Tgt Ion: 105 Resp: 15870

Ion Ratio Lower Upper

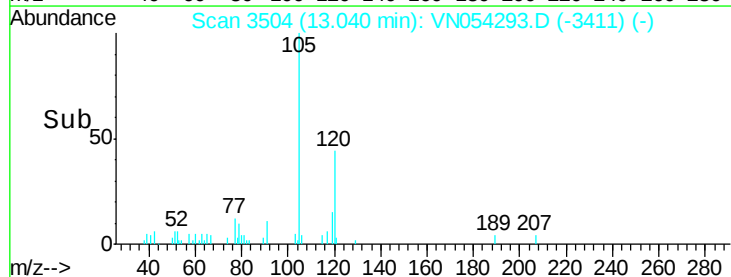
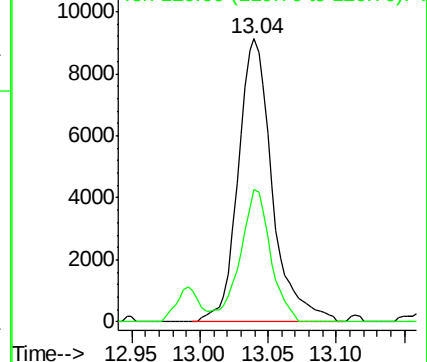
105 100

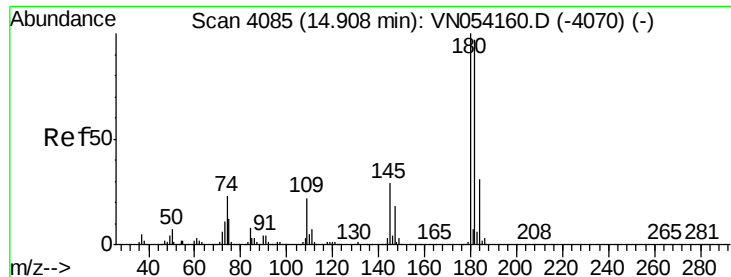
120 41.1 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): VN054293.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN054293.D (-3411) (-)





#93

1,2,4-Trichlorobenzene

Concen: 2.534 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN054293.D

Acq: 15 Mar 2019 6:23

Instrument :

MSVOA_N

ClientSampled :

30282

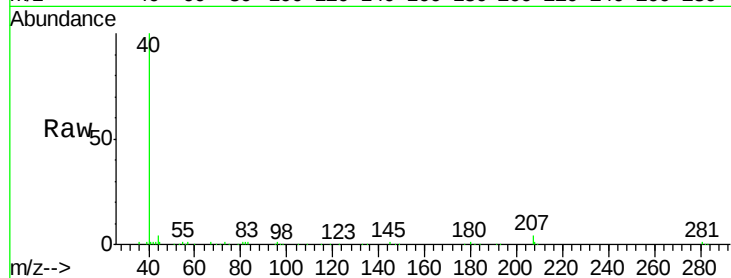
Tot Ion:180 Resp: 349

Ion Ratio Lower Upper

180 100

182 112.9 48.0 144.2

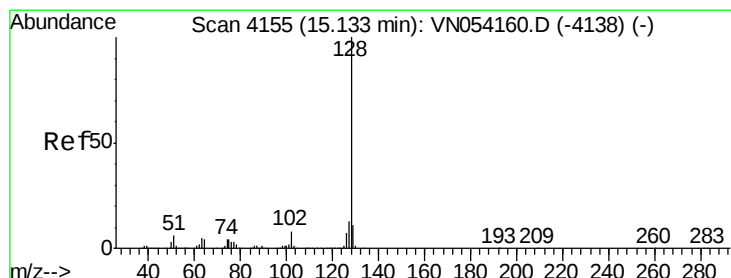
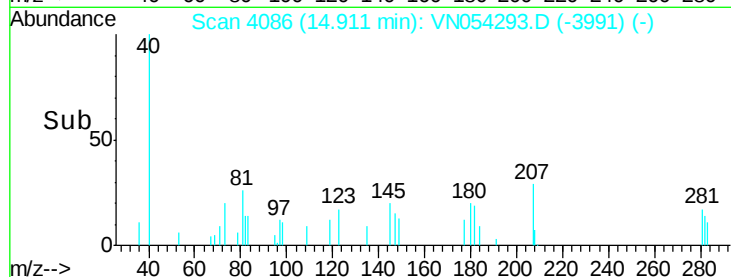
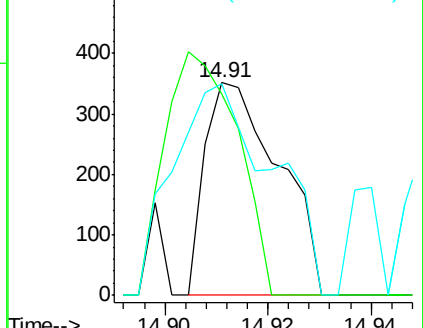
145 133.5 14.2 42.8#



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



#95

Naphthalene

Concen: 4.055 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054293.D

Acq: 15 Mar 2019 6:23

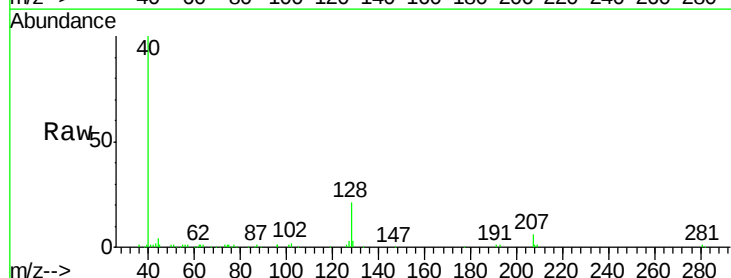
Tgt Ion:128 Resp: 24770

Ion Ratio Lower Upper

128 100

127 14.9 10.1 15.1

129 12.5 8.7 13.1



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

