

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032919\
 Data File : VN054775.D
 Acq On : 29 Mar 2019 17:33
 Operator : JC/SP
 Sample : K2107-09
 Misc : 3.08g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5

Quant Time: Mar 30 03:09:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

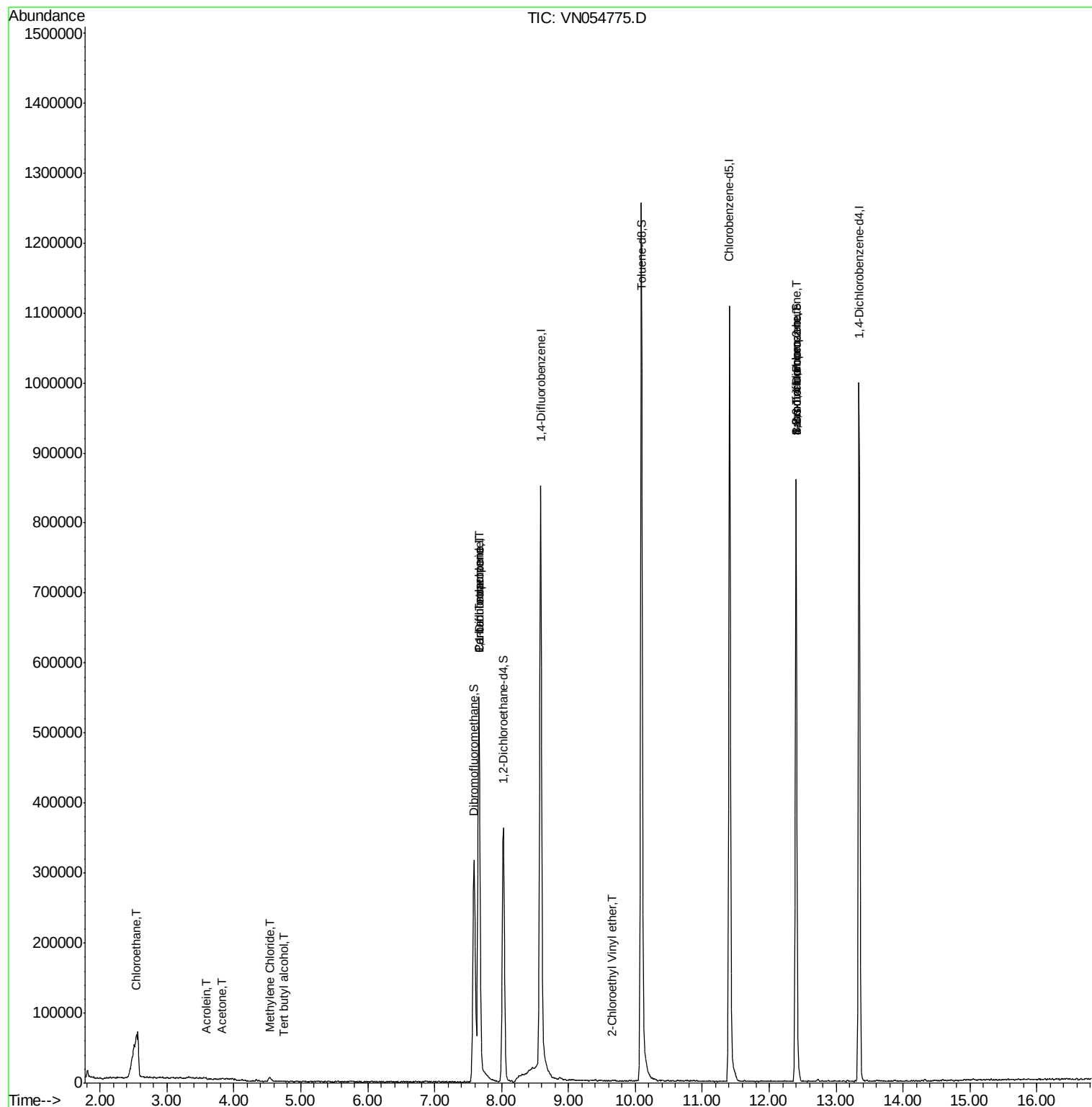
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	480010	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	765560	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	664372	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	263536	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	312167	48.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.48%	
35) Dibromofluoromethane	7.59	113	235368	46.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.24%	
50) Toluene-d8	10.09	98	927248	48.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.74%	
62) 4-Bromofluorobenzene	12.40	95	295275	46.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.58%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.56	94	454	Below Cal	#	2
6) Chloroethane	2.55	64	1332	0.396 ug/l	#	83
11) Tert butyl alcohol	4.75	59	189	0.561 ug/l	#	70
13) Acrolein	3.59	56	198	0.657 ug/l	#	73
16) Acetone	3.82	43	929	0.602 ug/l	#	38
18) Methyl Acetate	4.33	43	2655	Below Cal	#	75
20) Methylene Chloride	4.53	84	4013	0.737 ug/l	#	80
31) Cyclohexane	7.66	56	9842	Below Cal	#	28
36) 1,1-Dichloropropene	7.66	75	37468	5.252 ug/l	#	47
38) Carbon Tetrachloride	7.66	117	44012	6.352 ug/l	#	17
58) 2-Chloroethyl Vinyl ether	9.67	63	31	10.366 ug/l	#	44
71) Bromoform	12.40	173	910	0.319 ug/l	#	1
75) 1,1,2,2-Tetrachloroethane	12.39	83	116	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	156293	34.138 ug/l	#	100
81) trans-1,4-Dichloro-2-buten	12.40	75	156293	132.789 ug/l	#	11
83) tert-Butylbenzene	12.99	119	258	Below Cal	#	50

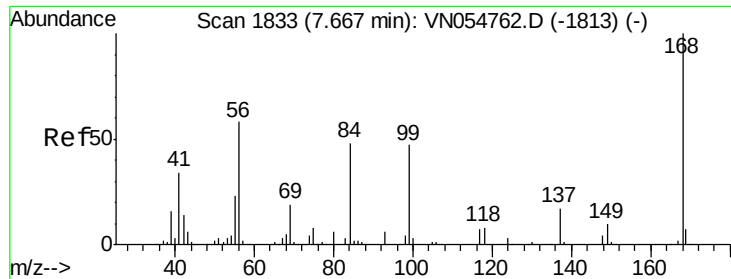
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054775.D

Acq: 29 Mar 2019 17:33

Instrument :

MSVOA_N

ClientSampleId :

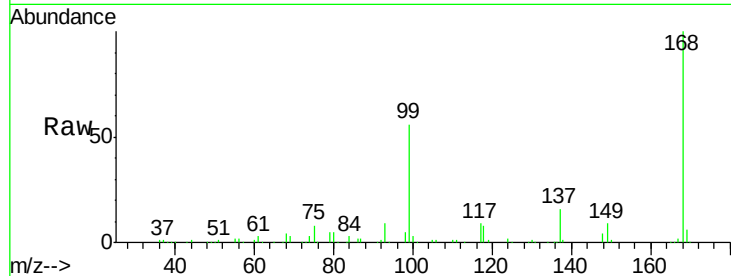
TP-5

Tgt Ion:168 Resp: 480010

Ion Ratio Lower Upper

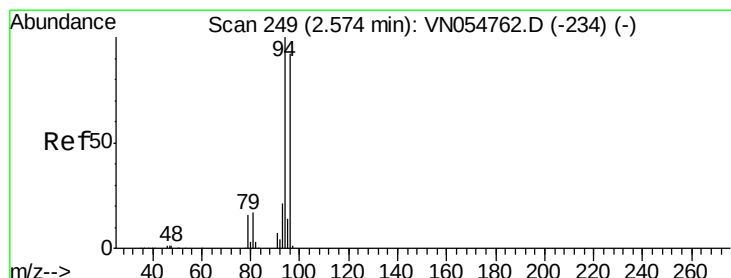
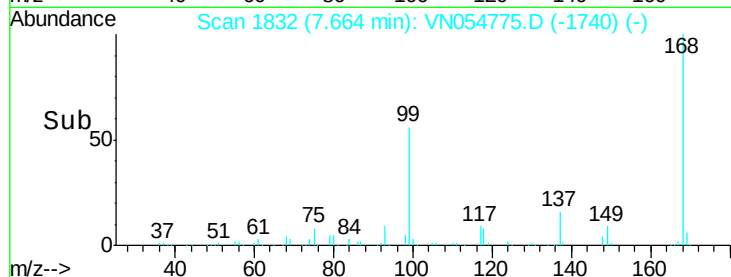
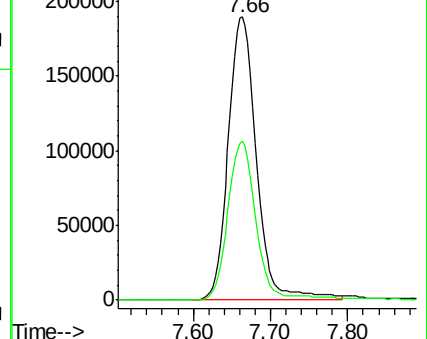
168 100

99 56.3 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 246

Delta R.T. -0.01 min

Lab File: VN054775.D

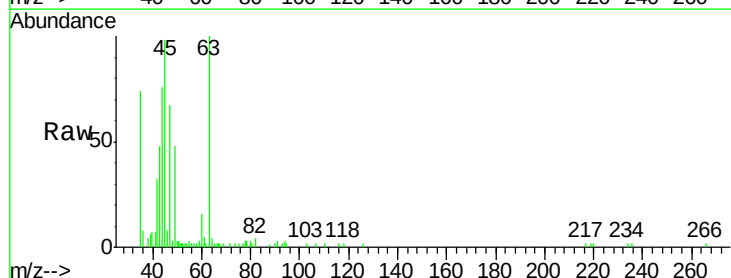
Acq: 29 Mar 2019 17:33

Tgt Ion: 94 Resp: 454

Ion Ratio Lower Upper

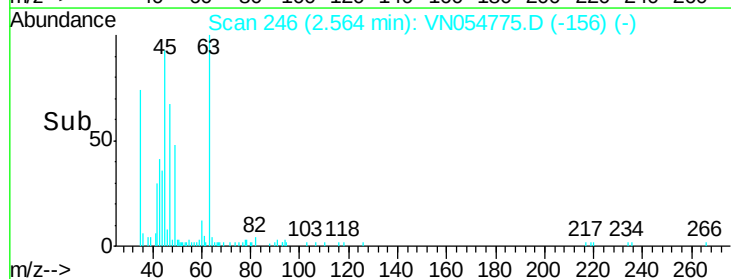
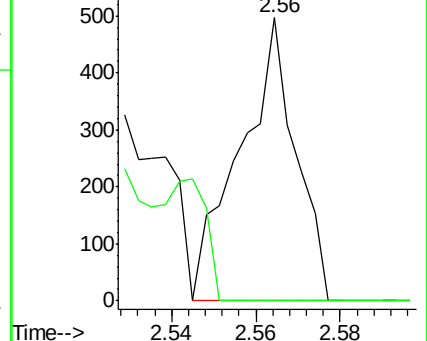
94 100

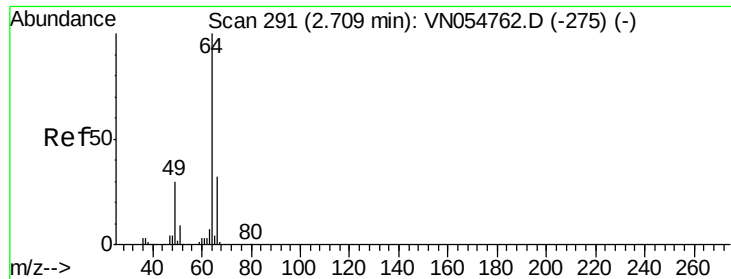
96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#6

Chloroethane

Concen: 0.396 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.16 min

Lab File: VN054775.D

Acq: 29 Mar 2019 17:33

Instrument :

MSVOA_N

ClientSampled :

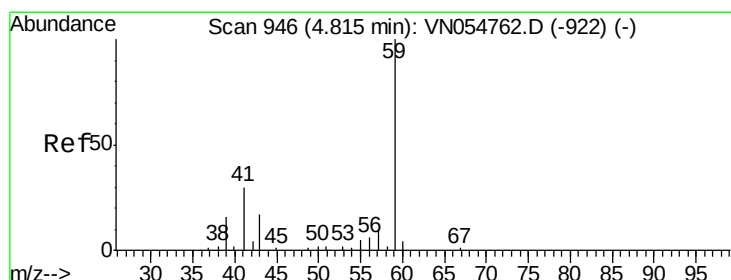
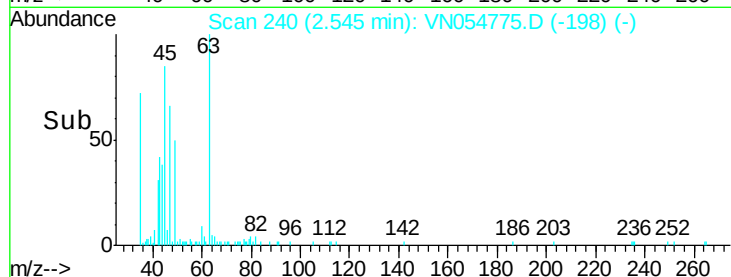
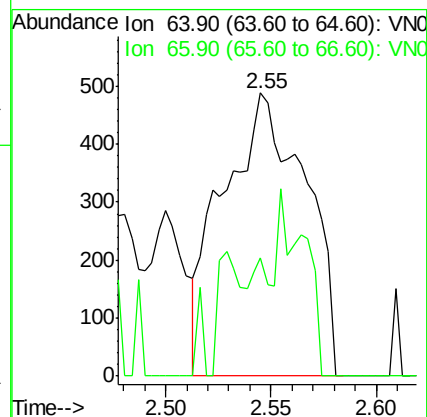
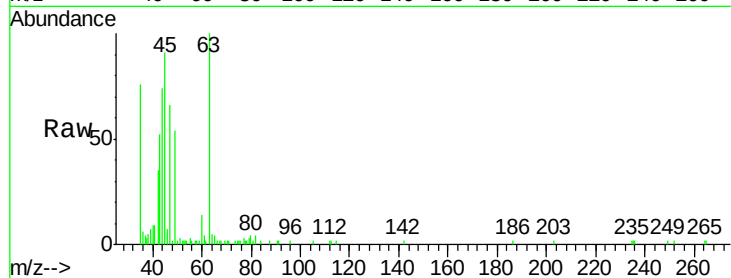
TP-5

Tgt Ion: 64 Resp: 1332

Ion Ratio Lower Upper

64 100

66 41.6 25.7 38.5#



#11

Tert butyl alcohol

Concen: 0.561 ug/l

RT: 4.75 min Scan# 927

Delta R.T. -0.06 min

Lab File: VN054775.D

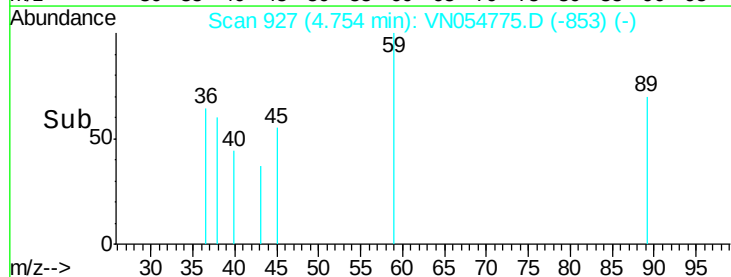
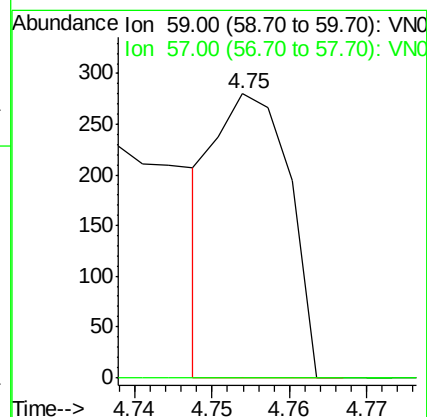
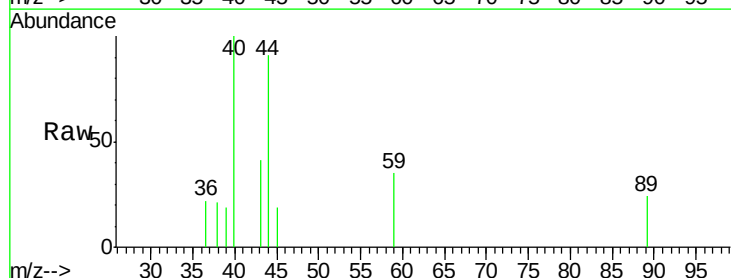
Acq: 29 Mar 2019 17:33

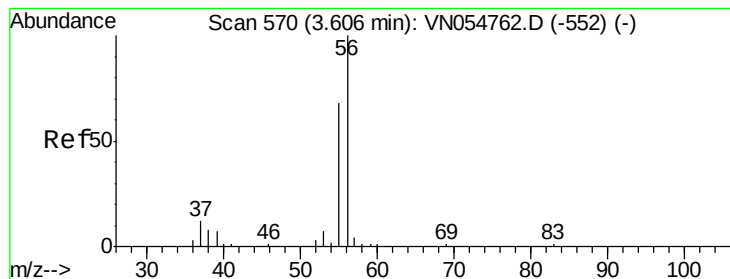
Tgt Ion: 59 Resp: 189

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#





#13

Acrolein

Concen: 0.657 ug/l

RT: 3.59 min Scan# 564

Delta R.T. -0.02 min

Lab File: VN054775.D

Acq: 29 Mar 2019 17:33

Instrument :

MSVOA_N

ClientSampled :

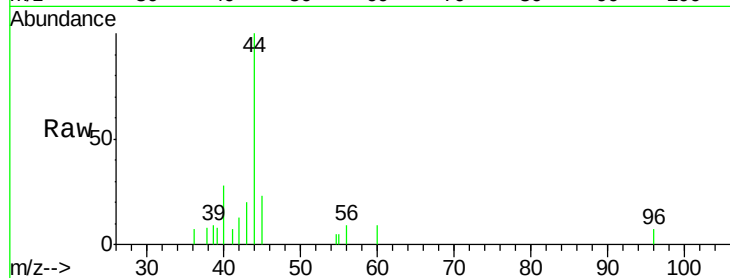
TP-5

Tgt Ion: 56 Resp: 198

Ion Ratio Lower Upper

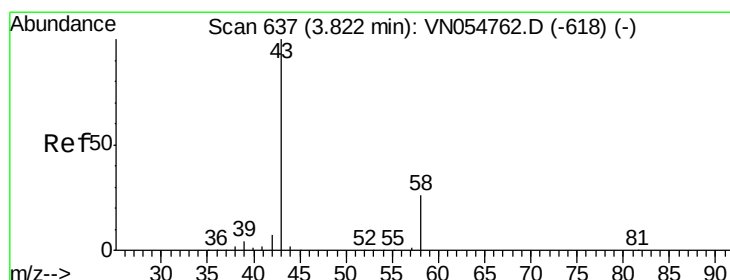
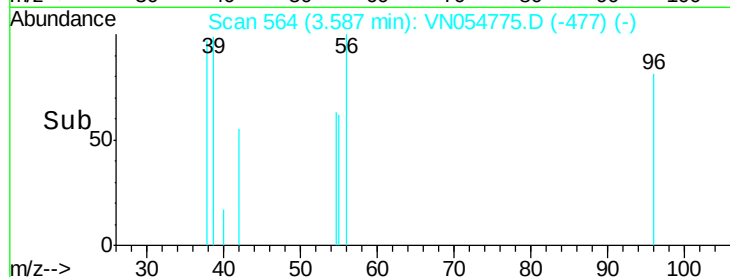
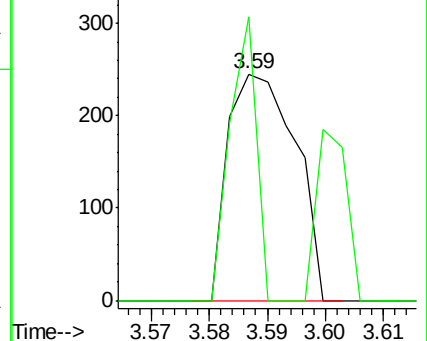
56 100

55 48.5 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 0.602 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054775.D

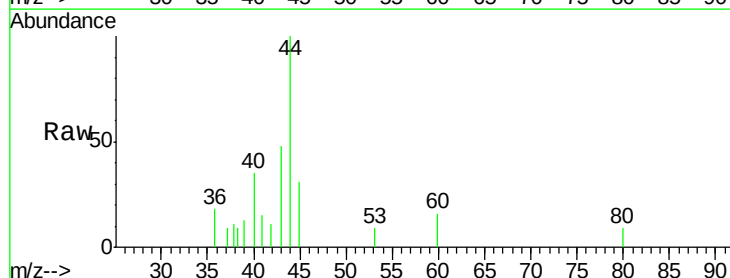
Acq: 29 Mar 2019 17:33

Tgt Ion: 43 Resp: 929

Ion Ratio Lower Upper

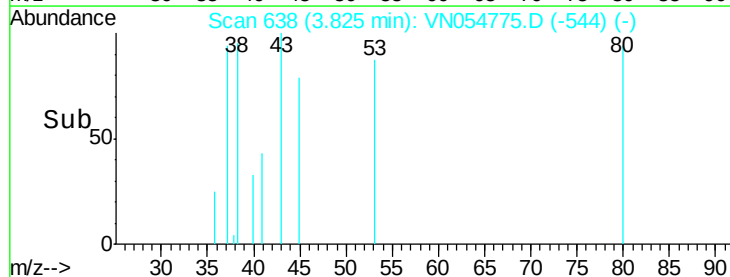
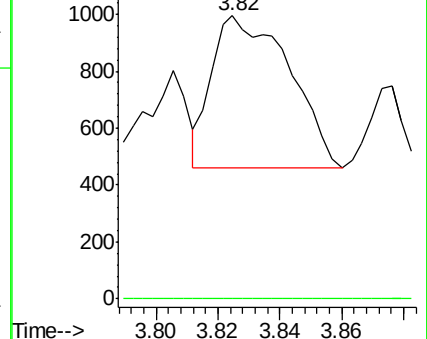
43 100

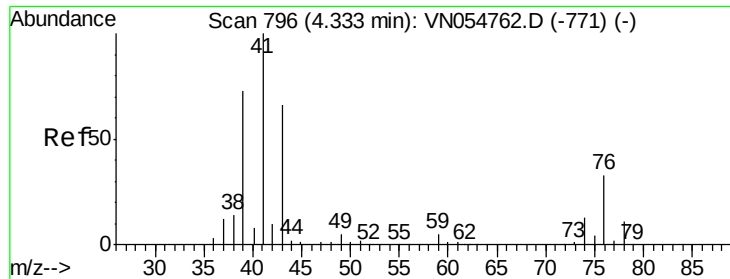
58 0.0 29.9 44.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

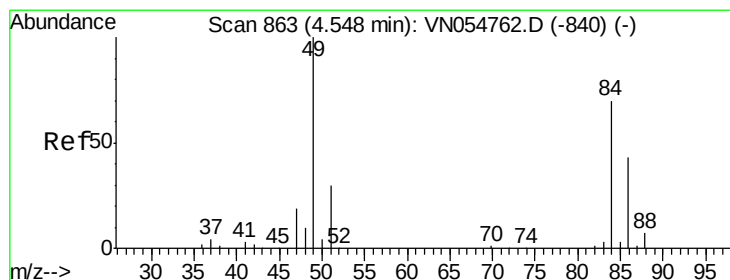
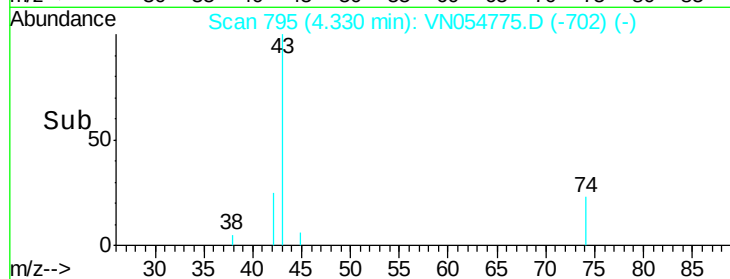
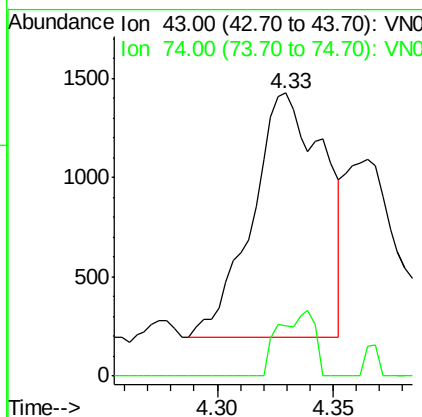
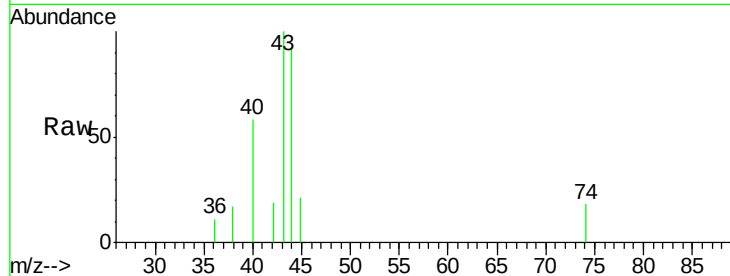




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN054775.D
Acq: 29 Mar 2019 17:33

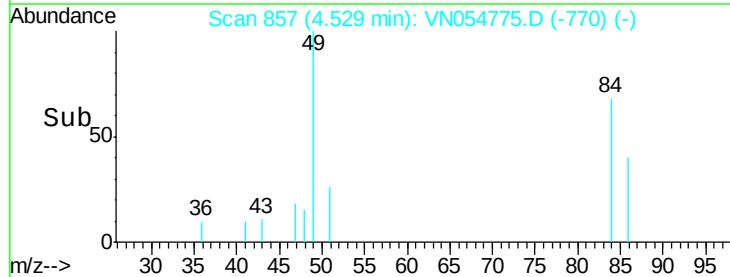
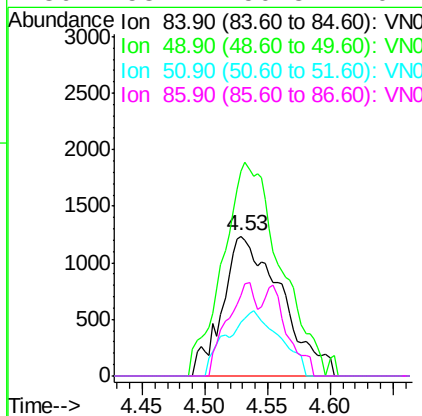
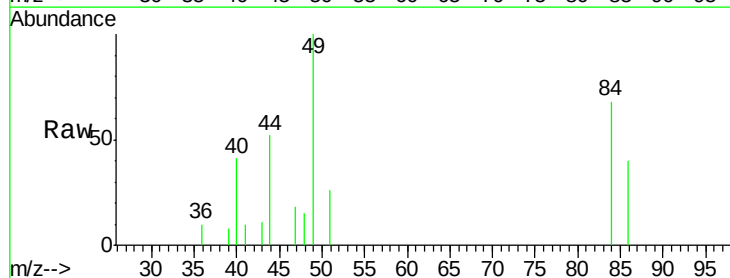
Instrument :
MSVOA_N
ClientSampleId :
TP-5

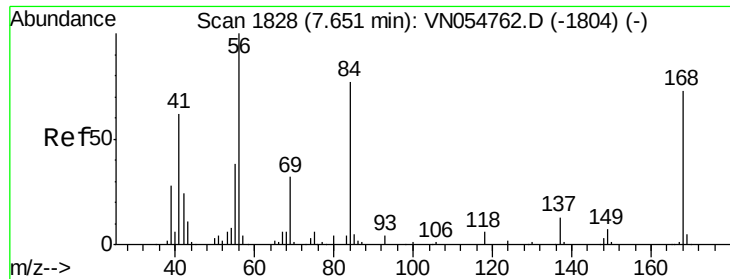
Tgt Ion: 43 Resp: 2655
Ion Ratio Lower Upper
43 100
74 13.4 20.8 31.2#



#20
Methylene Chloride
Concen: 0.737 ug/l
RT: 4.53 min Scan# 857
Delta R.T. -0.02 min
Lab File: VN054775.D
Acq: 29 Mar 2019 17:33

Tgt Ion: 84 Resp: 4013
Ion Ratio Lower Upper
84 100
49 146.7 89.7 134.5#
51 38.5 28.2 42.4
86 58.1 50.8 76.2





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN054775.D

Acq: 29 Mar 2019 17:33

Instrument :

MSVOA_N

ClientSampleId :

TP-5

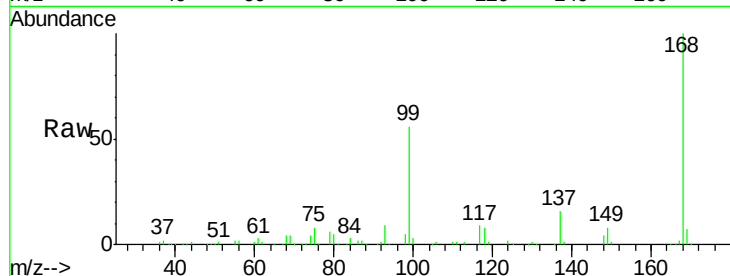
Tgt Ion: 56 Resp: 9842

Ion Ratio Lower Upper

56 100

69 151.4 27.8 41.6#

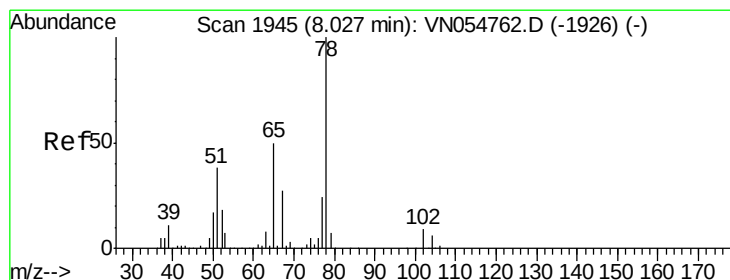
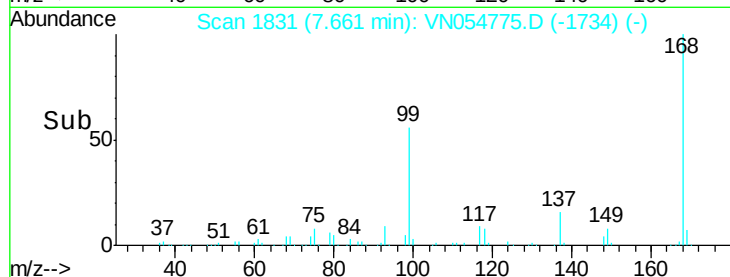
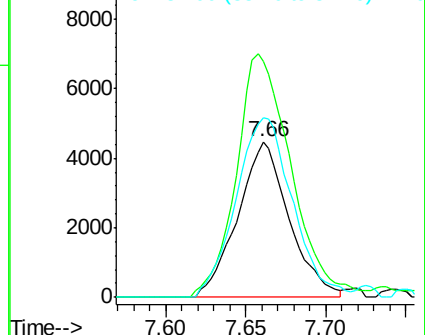
84 115.6 74.6 111.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 48.243 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN054775.D

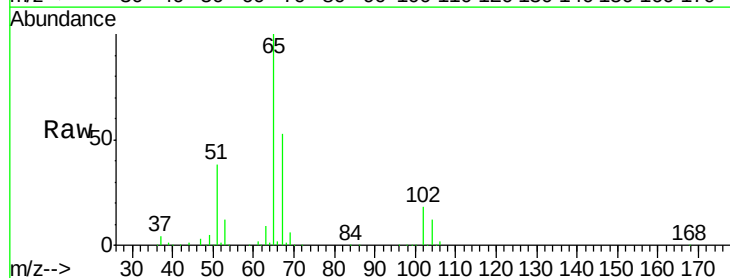
Acq: 29 Mar 2019 17:33

Tgt Ion: 65 Resp: 312167

Ion Ratio Lower Upper

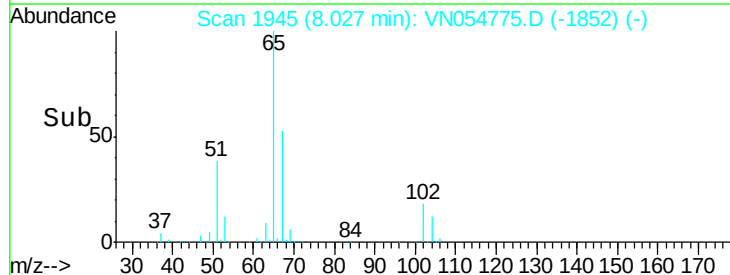
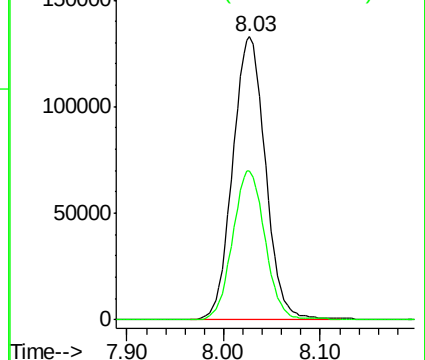
65 100

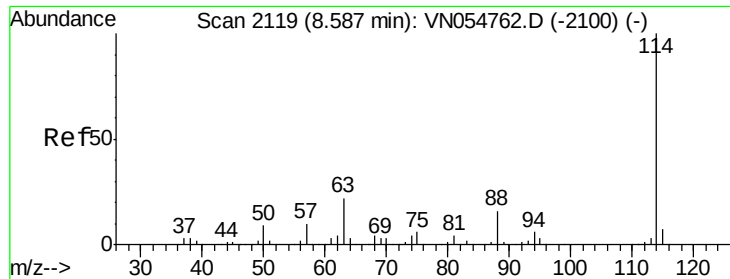
67 52.3 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054775.D

Acq: 29 Mar 2019 17:33

Instrument :

MSVOA_N

ClientSampled :

TP-5

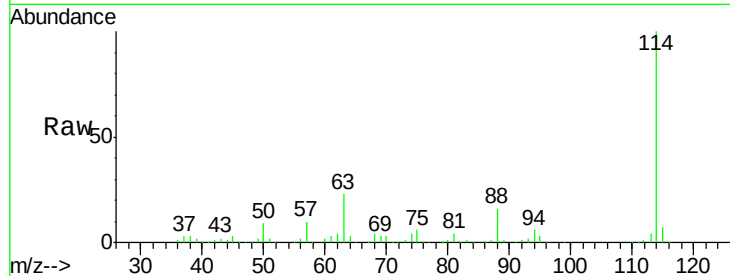
Tgt Ion:114 Resp: 765560

Ion Ratio Lower Upper

114 100

63 22.7 0.0 35.2

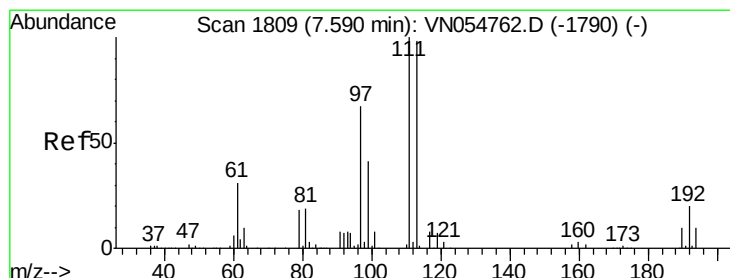
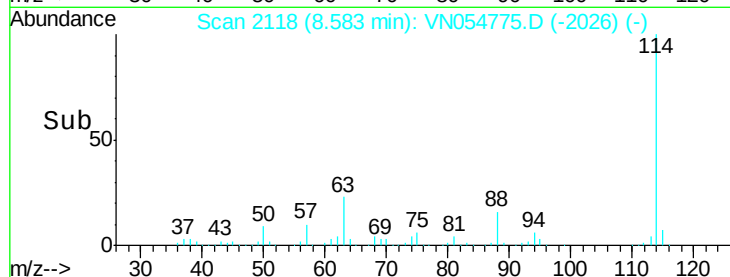
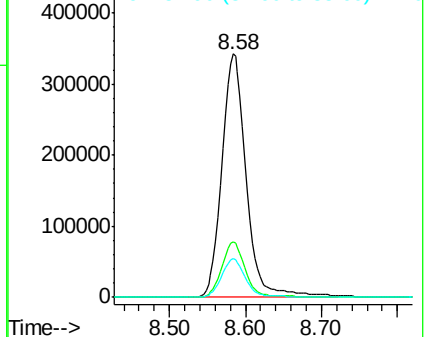
88 16.0 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 46.115 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN054775.D

Acq: 29 Mar 2019 17:33

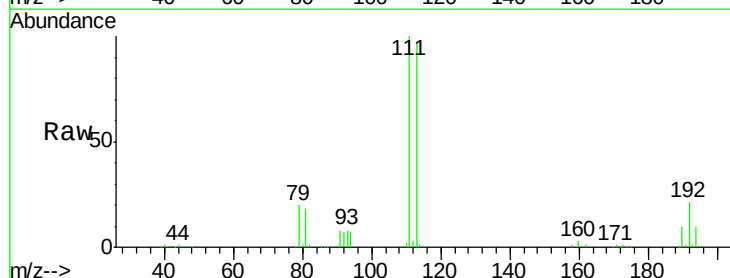
Tgt Ion:113 Resp: 235368

Ion Ratio Lower Upper

113 100

111 102.7 82.2 123.4

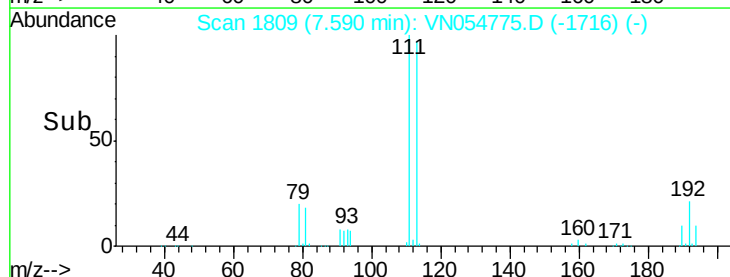
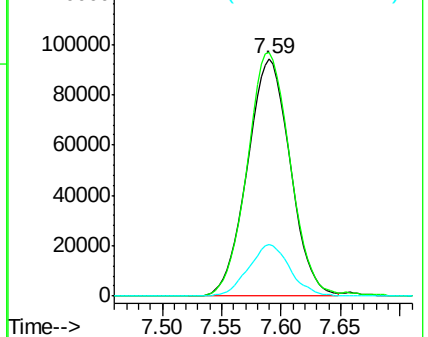
192 20.9 19.2 28.8

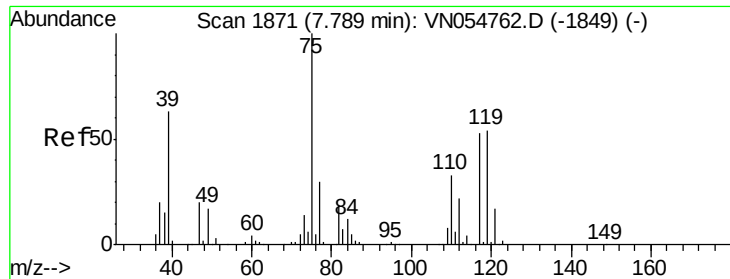


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

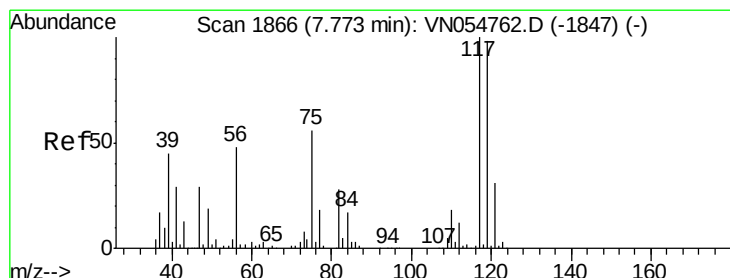
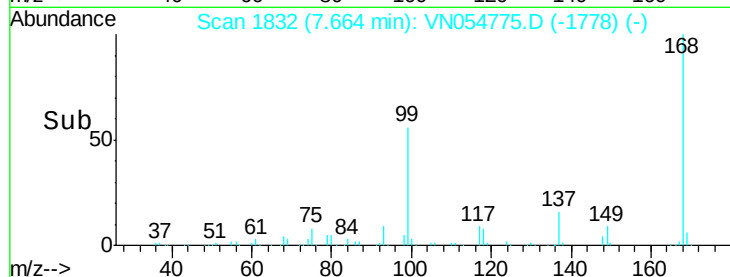
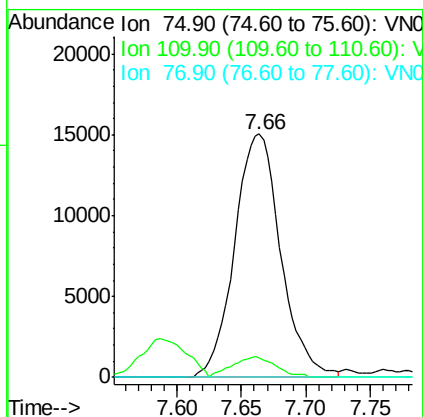
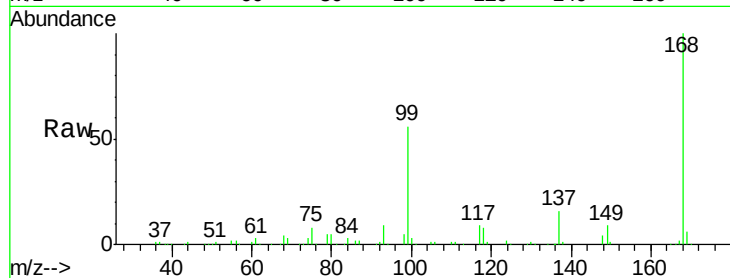




#36
 1,1-Dichloropropene
 Concen: 5.252 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054775.D
 Acq: 29 Mar 2019 17:33

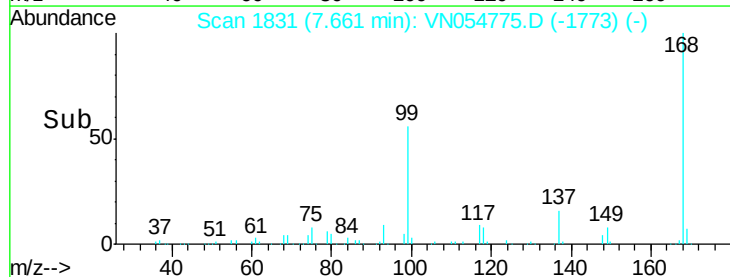
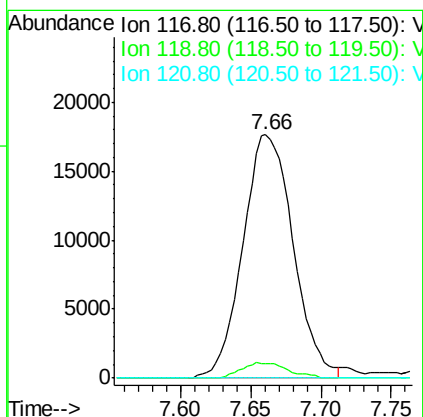
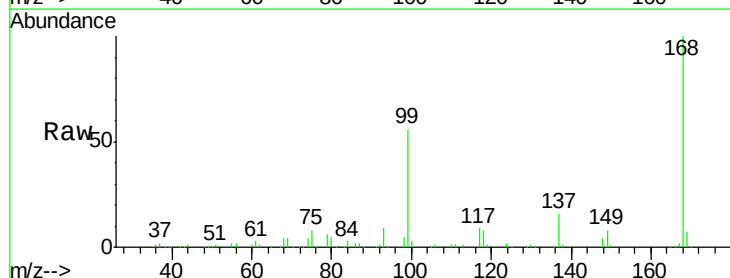
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5

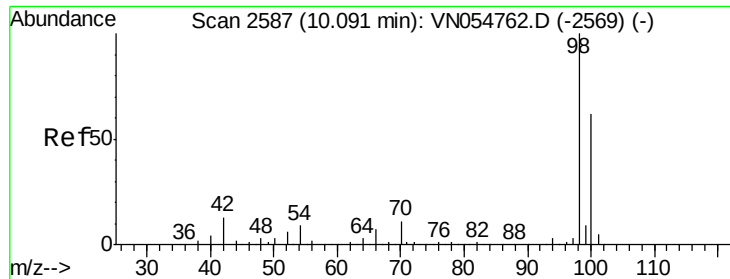
Tgt Ion: 75 Resp: 37468
 Ion Ratio Lower Upper
 75 100
 110 8.0 19.1 57.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.352 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN054775.D
 Acq: 29 Mar 2019 17:33

Tgt Ion: 117 Resp: 44012
 Ion Ratio Lower Upper
 117 100
 119 5.7 76.3 114.5#
 121 0.0 24.6 36.8#





#50

Toluene-d8

Concen: 48.866 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054775.D

Acq: 29 Mar 2019 17:33

Instrument :

MSVOA_N

ClientSampled :

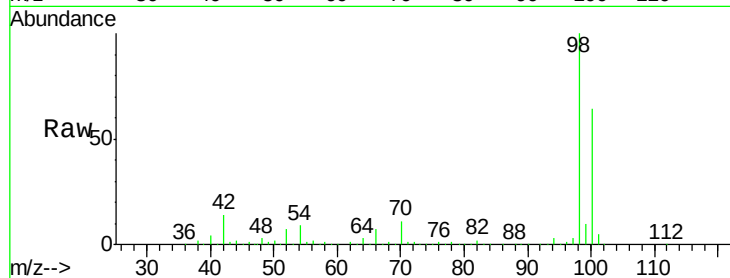
TP-5

Tgt Ion: 98 Resp: 927248

Ion Ratio Lower Upper

98 100

100 63.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054762.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054762.D (-2569) (-)

10.09

500000

400000

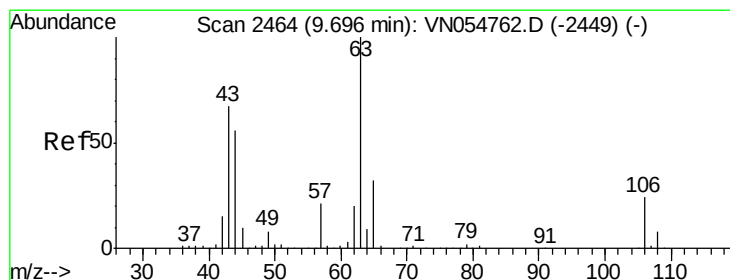
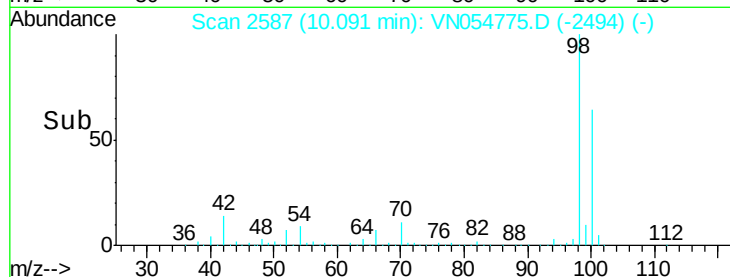
300000

200000

100000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 10.366 ug/l

RT: 9.67 min Scan# 2455

Delta R.T. -0.03 min

Lab File: VN054775.D

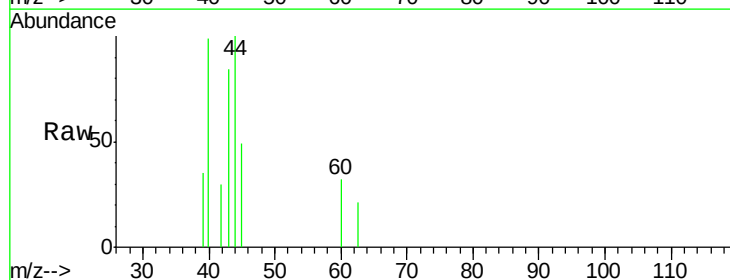
Acq: 29 Mar 2019 17:33

Tgt Ion: 63 Resp: 31

Ion Ratio Lower Upper

63 100

106 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN054762.D (-2449) (-)

Ion 105.90 (105.60 to 106.60): VN054762.D (-2449) (-)

9.67

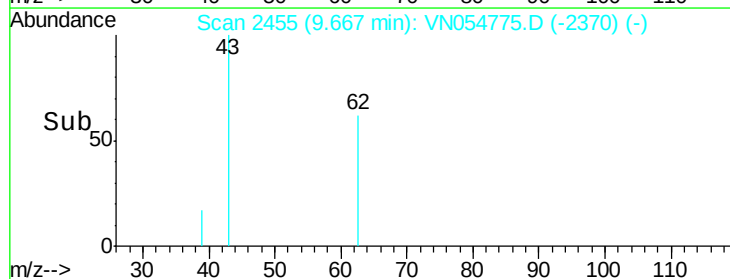
150

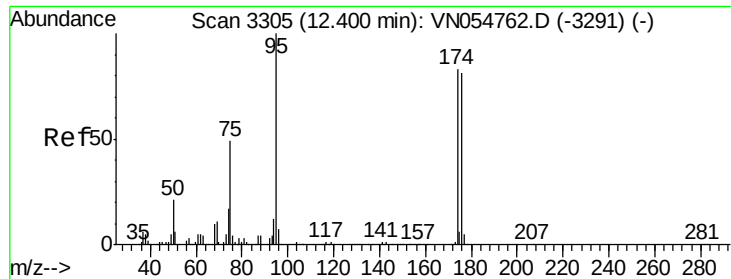
100

50

0

Time-->





#62

4-Bromofluorobenzene

Concen: 46.789 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054775.D

Acq: 29 Mar 2019 17:33

Instrument :

MSVOA_N

ClientSampled :

TP-5

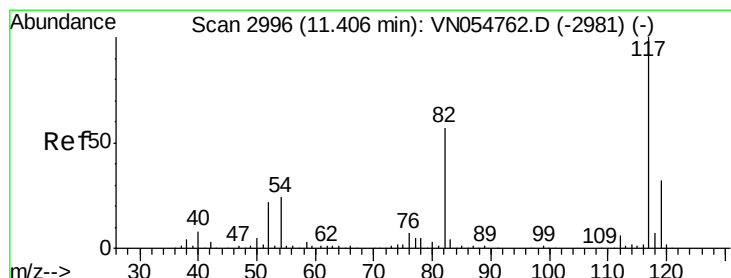
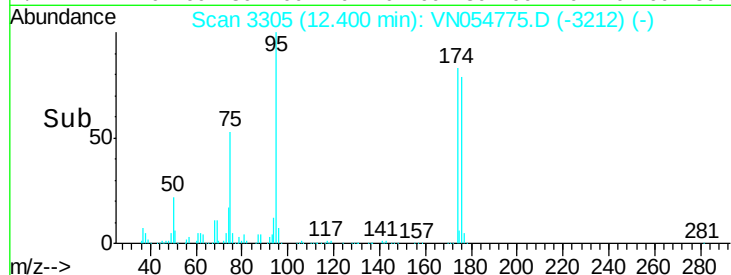
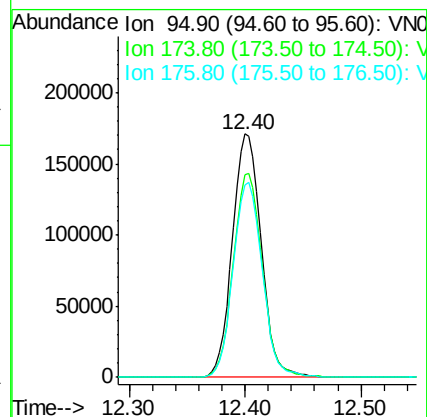
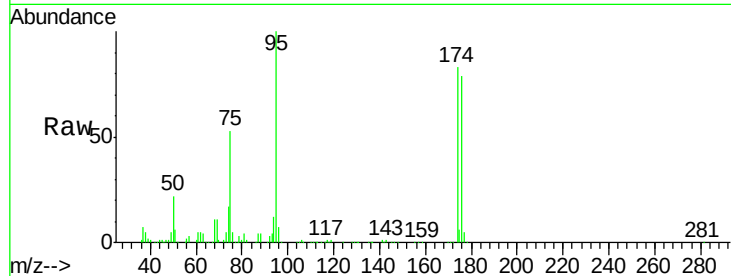
Tgt Ion: 95 Resp: 295275

Ion Ratio Lower Upper

95 100

174 84.2 0.0 191.0

176 80.8 0.0 187.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054775.D

Acq: 29 Mar 2019 17:33

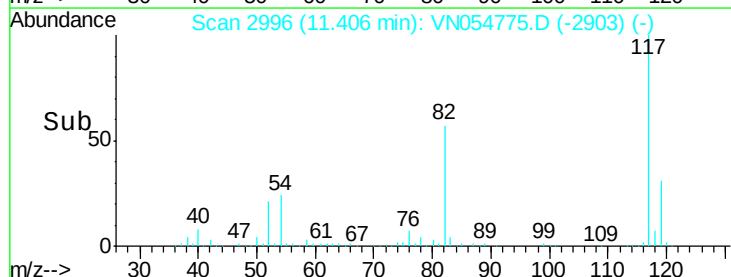
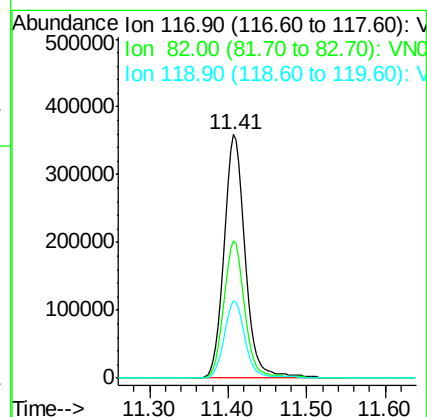
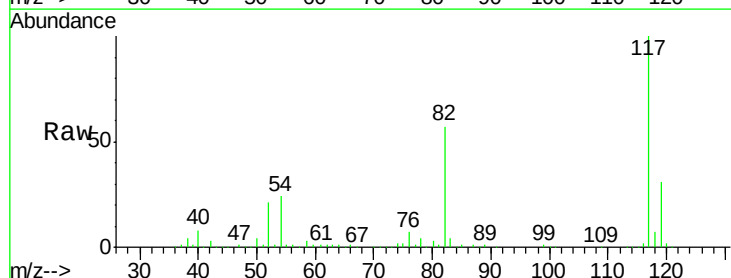
Tgt Ion: 117 Resp: 664372

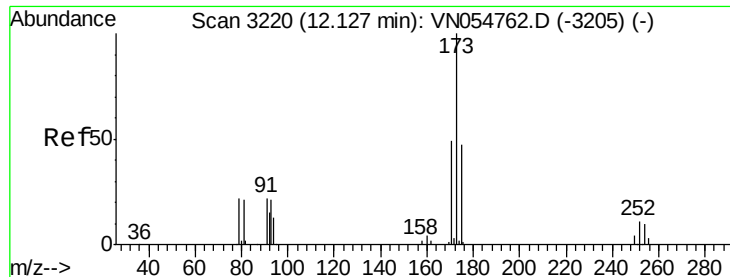
Ion Ratio Lower Upper

117 100

82 56.7 40.0 60.0

119 31.5 25.8 38.6





#71

Bromoform

Concen: 0.319 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN054775.D

Acq: 29 Mar 2019 17:33

Instrument :

MSVOA_N

ClientSampled :

TP-5

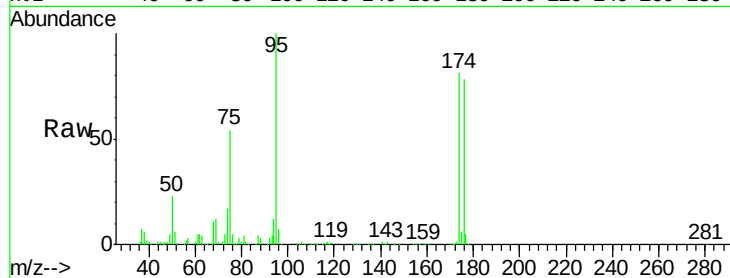
Tgt Ion:173 Resp: 910

Ion Ratio Lower Upper

173 100

175 1749.1 24.4 73.2#

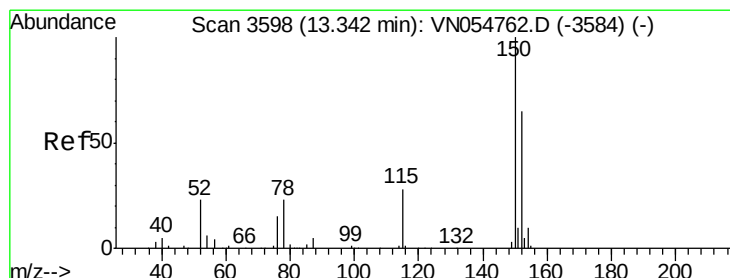
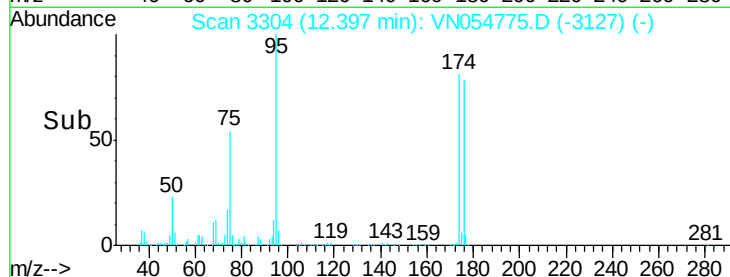
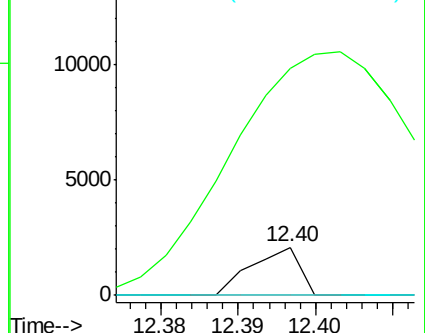
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054775.D

Acq: 29 Mar 2019 17:33

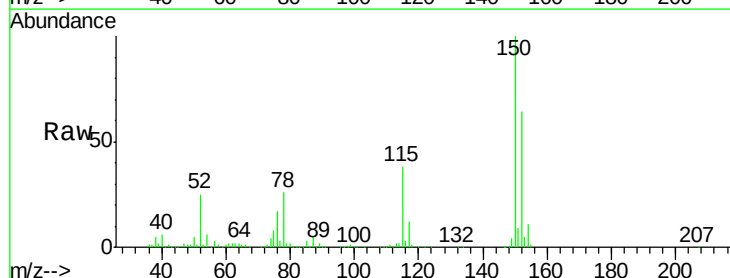
Tgt Ion:152 Resp: 263536

Ion Ratio Lower Upper

152 100

115 58.0 27.2 81.6

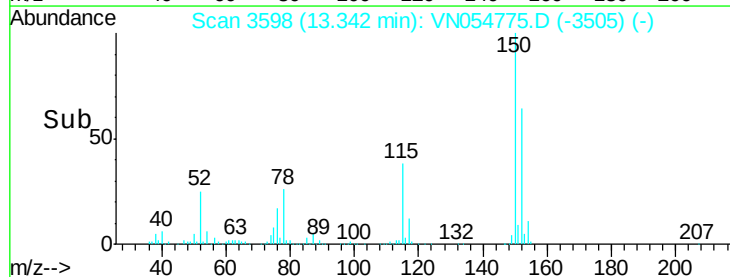
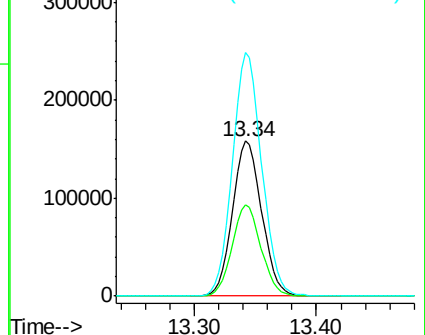
150 157.9 0.0 349.2

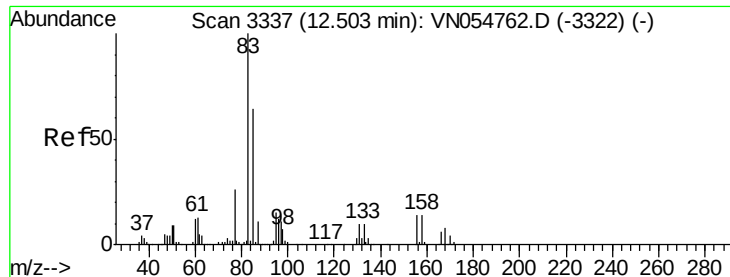


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.39 min Scan# 3303

Delta R.T. -0.11 min

Lab File: VN054775.D

Acq: 29 Mar 2019 17:33

Instrument :

MSVOA_N

ClientSampleId :

TP-5

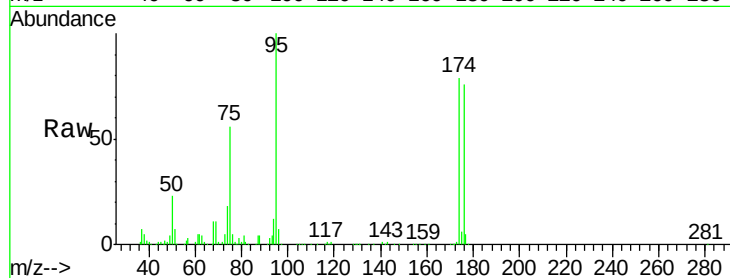
Tgt Ion: 83 Resp: 116

Ion Ratio Lower Upper

83 100

131 304.3 5.8 17.4#

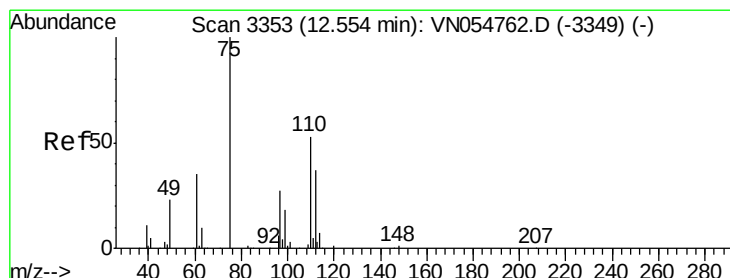
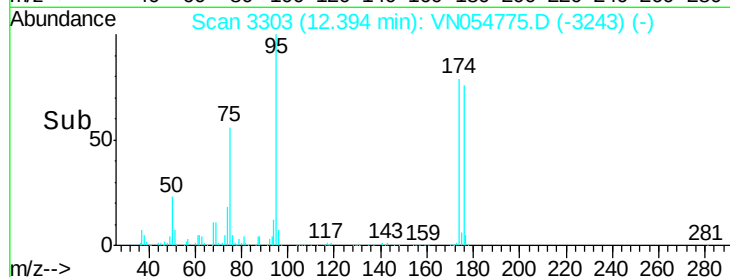
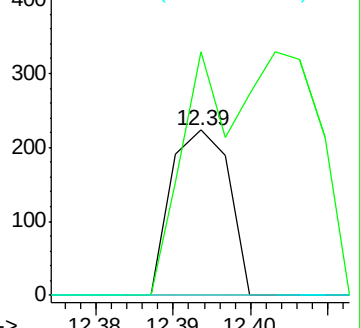
85 0.0 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 34.138 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054775.D

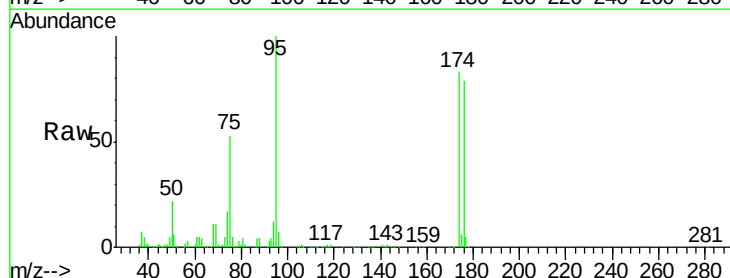
Acq: 29 Mar 2019 17:33

Tgt Ion: 75 Resp: 156293

Ion Ratio Lower Upper

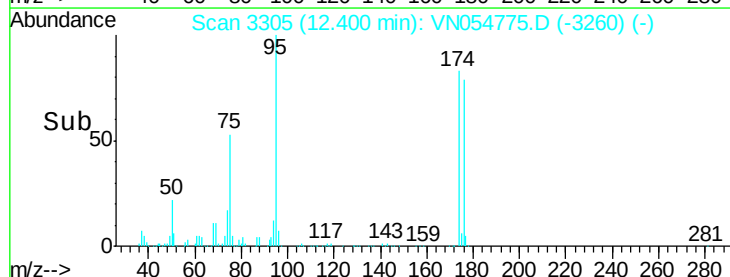
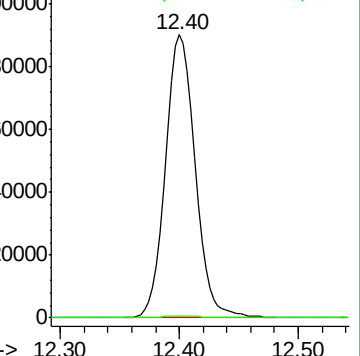
75 100

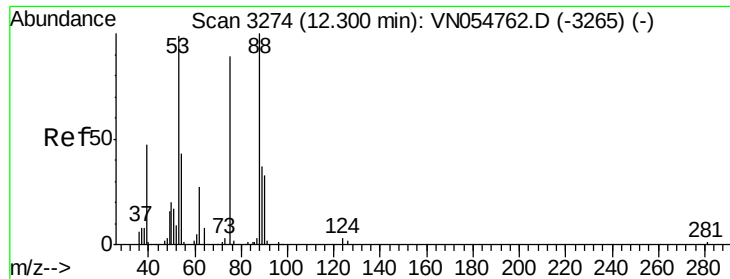
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

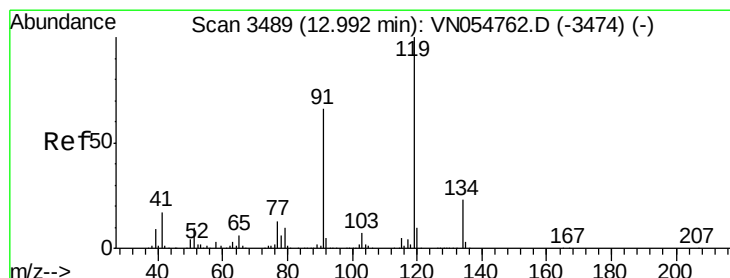
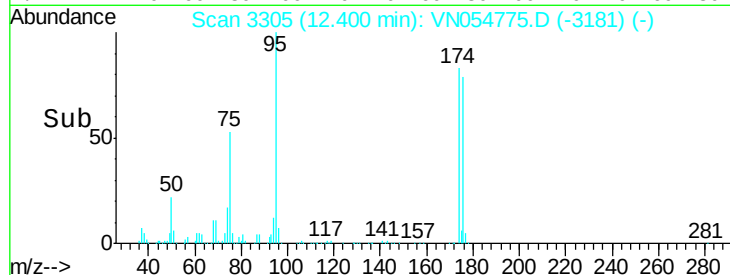
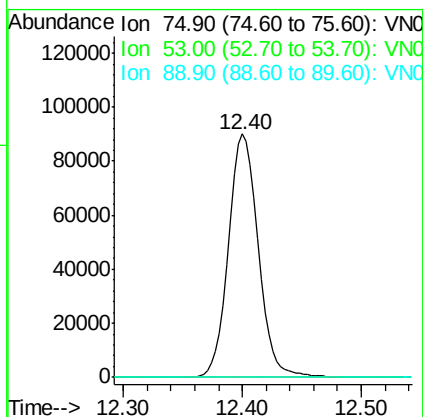
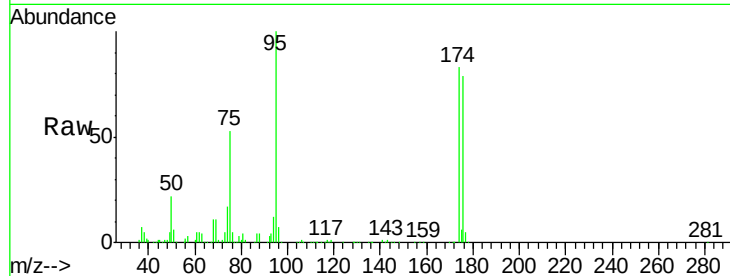




#81
 trans-1,4-Dichloro-2-butene
 Concen: 132.789 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054775.D
 Acq: 29 Mar 2019 17:33

Instrument :
 MSVOA_N
 ClientSampled :
 TP-5

Tgt Ion: 75 Resp: 156293
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.2 114.2#
 89 0.0 39.2 58.8#



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3488
 Delta R.T. -0.00 min
 Lab File: VN054775.D
 Acq: 29 Mar 2019 17:33

Tgt Ion: 119 Resp: 258
 Ion Ratio Lower Upper
 119 100
 91 24.0 30.9 92.8#
 134 0.0 13.2 39.6#

