

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041619\
 Data File : VN055087.D
 Acq On : 16 Apr 2019 19:04
 Operator : JC/SP
 Sample : K2411-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-14-S

Quant Time: Apr 17 01:40:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	550836	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	880285	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	730893	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	236406	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	341635	46.66	ug/l	0.00
Spiked Amount			Recovery	=	93.32%	
35) Dibromofluoromethane	7.59	113	274377	46.64	ug/l	0.00
Spiked Amount			Recovery	=	93.28%	
50) Toluene-d8	10.09	98	1038900	49.34	ug/l	0.00
Spiked Amount			Recovery	=	98.68%	
62) 4-Bromofluorobenzene	12.40	95	297147	43.41	ug/l	0.00
Spiked Amount			Recovery	=	86.82%	

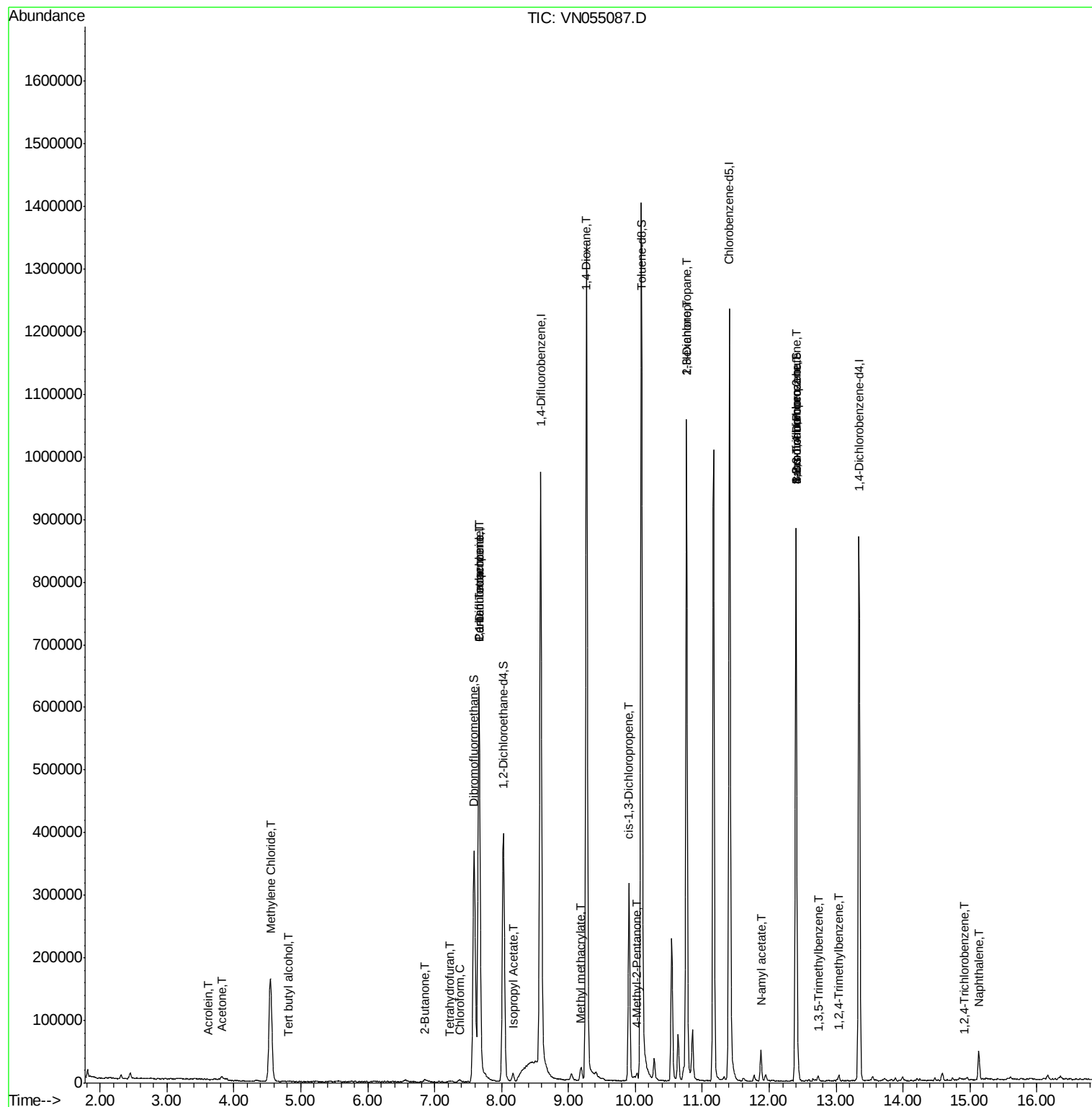
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.82	59	650	1.620	ug/l #	72
13) Acrolein	3.62	56	182	0.367	ug/l #	12
16) Acetone	3.82	43	9164	4.611	ug/l	99
18) Methyl Acetate	4.33	43	2398	Below Cal	#	64
20) Methylene Chloride	4.55	84	115706	16.562	ug/l	99
25) 2-Butanone	6.86	43	7113	2.398	ug/l	93
29) Tetrahydrofuran	7.22	42	566	0.291	ug/l #	66
30) Chloroform	7.37	83	3211	0.282	ug/l	99
31) Cyclohexane	7.67	56	10114	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	39718	4.786	ug/l #	49
38) Carbon Tetrachloride	7.66	117	49533	6.274	ug/l #	16
43) Isopropyl Acetate	8.17	43	14933	1.435	ug/l	98
48) Methyl methacrylate	9.18	41	7588	1.471	ug/l #	17
49) 1,4-Dioxane	9.27	88	99	2.048	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	9441	1.570	ug/l #	39
54) cis-1,3-Dichloropropene	9.91	75	51334	5.782	ug/l #	67
57) 1,3-Dichloropropane	10.76	76	10340	1.100	ug/l #	43
59) 2-Hexanone	10.76	43	167040	44.222	ug/l #	55
71) Bromoform	12.40	173	2783	0.897	ug/l #	1
74) N-amyl acetate	11.88	43	15967	2.704	ug/l #	58
76) 1,2,3-Trichloropropane	12.40	75	153289	36.058	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4043	0.239	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	153289	144.192	ug/l #	2
84) 1,2,4-Trimethylbenzene	13.04	105	6069	0.378	ug/l	97
93) 1,2,4-Trichlorobenzene	14.90	180	255	2.744	ug/l #	28
95) Naphthalene	15.13	128	38267	7.314	ug/l	99

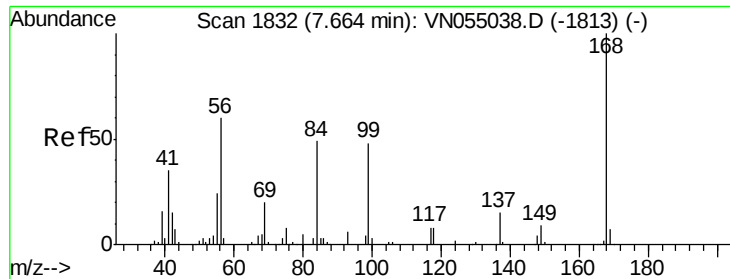
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Apr 15 12:28:28 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

Instrument :

MSVOA_N

ClientSampled :

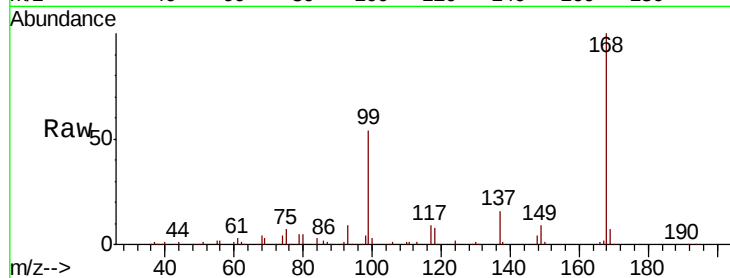
TP-14-S

Tot Ion:168 Resp: 550836

Ion Ratio Lower Upper

168 100

99 53.5 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

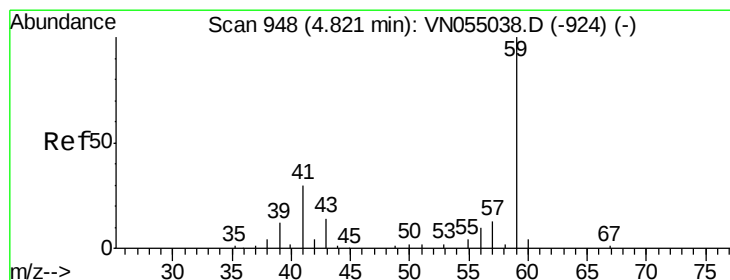
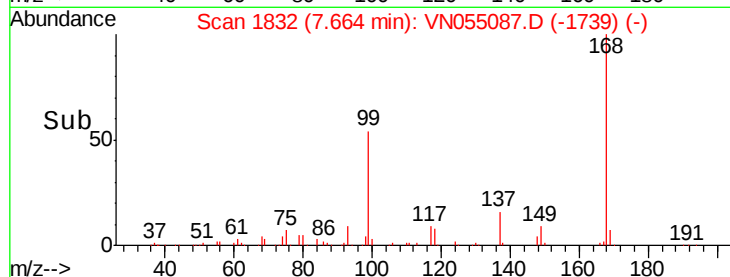
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.620 ug/l

RT: 4.82 min Scan# 946

Delta R.T. -0.01 min

Lab File: VN055087.D

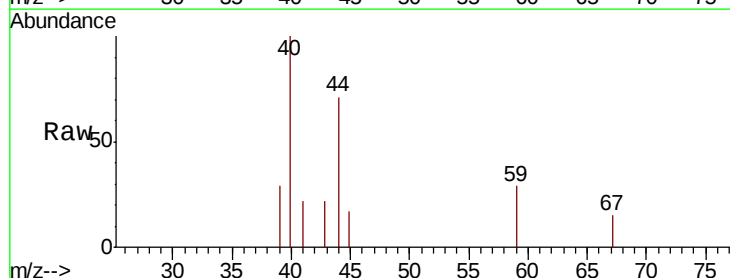
Acq: 16 Apr 2019 19:04

Tgt Ion: 59 Resp: 650

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.82

400

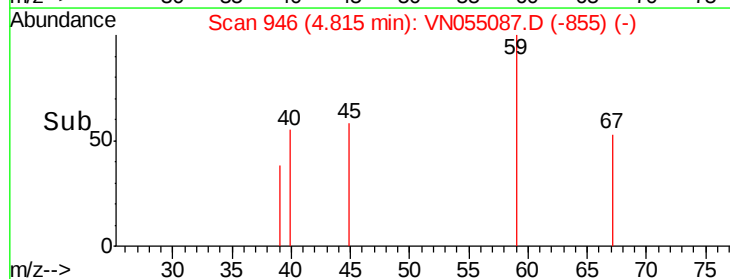
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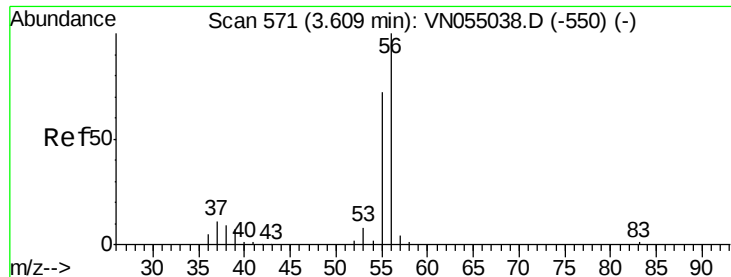
200

100

0

Time-->





#13

Acrolein

Concen: 0.367 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

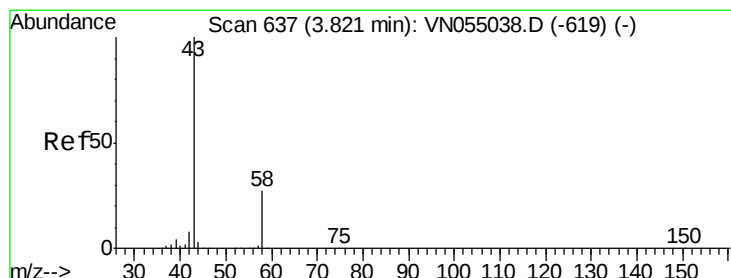
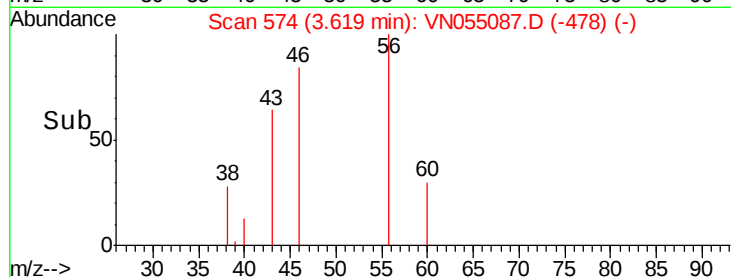
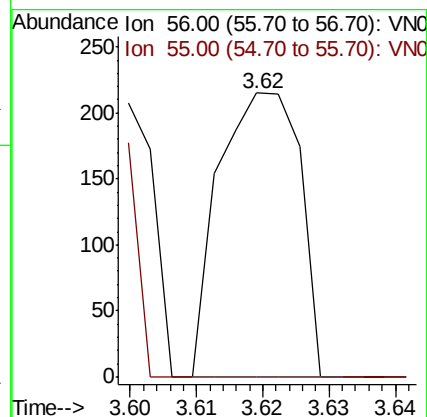
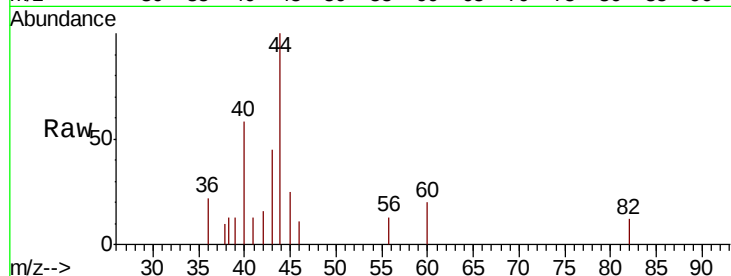
TP-14-S

Tot Ion: 56 Resp: 182

Ion Ratio Lower Upper

56 100

55 0.0 59.5 89.3#



#16

Acetone

Concen: 4.611 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN055087.D

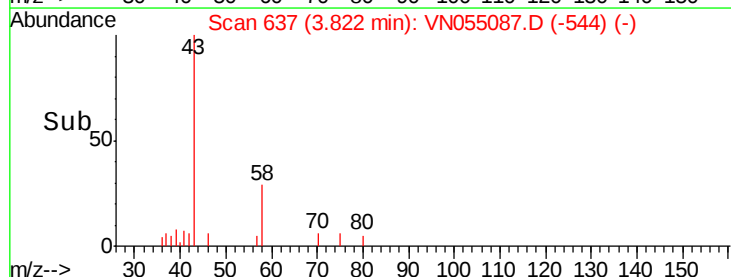
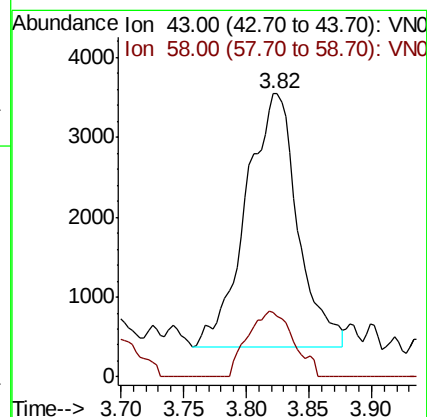
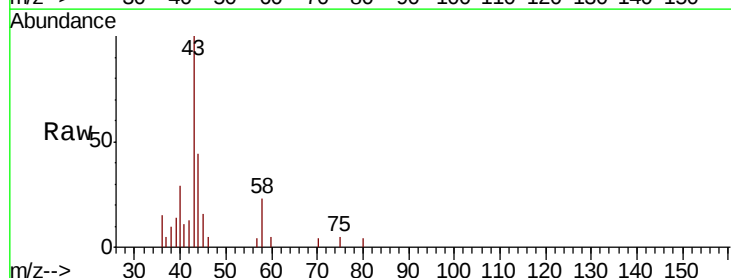
Acq: 16 Apr 2019 19:04

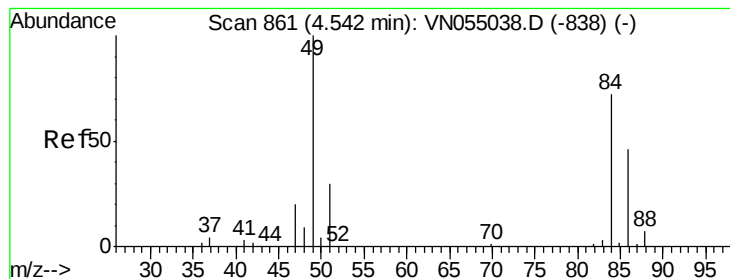
Tgt Ion: 43 Resp: 9164

Ion Ratio Lower Upper

43 100

58 25.5 20.9 31.3





#20

Methvlene Chloride

Concen: 16.562 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.01 min

Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

Instrument :

MSVOA_N

ClientSampled :

TP-14-S

Tot Ion: 84 Resp: 115706

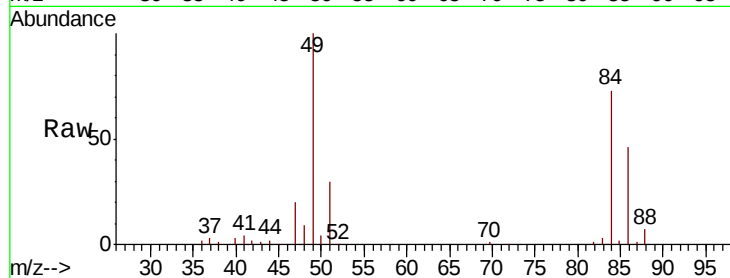
Ion Ratio Lower Upper

84 100

49 137.7 109.4 164.2

51 41.5 32.2 48.4

86 63.4 49.3 73.9

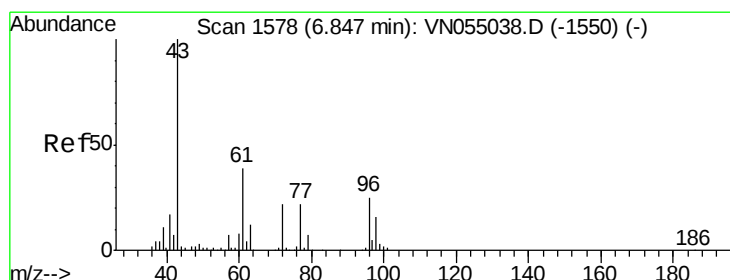
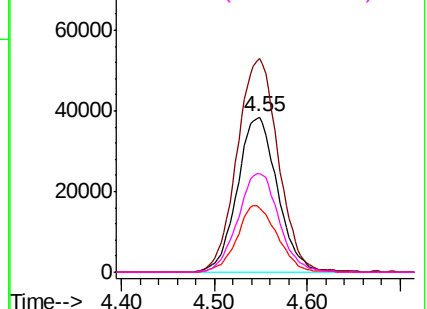
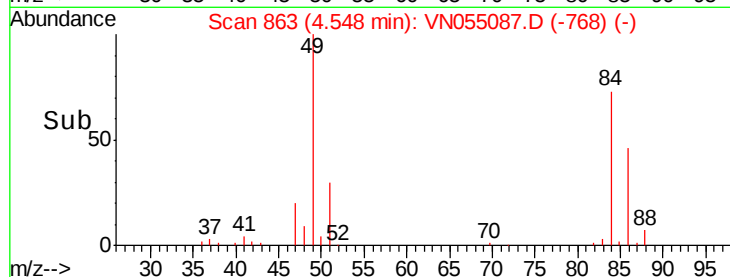


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 2.398 ug/l

RT: 6.86 min Scan# 1582

Delta R.T. 0.01 min

Lab File: VN055087.D

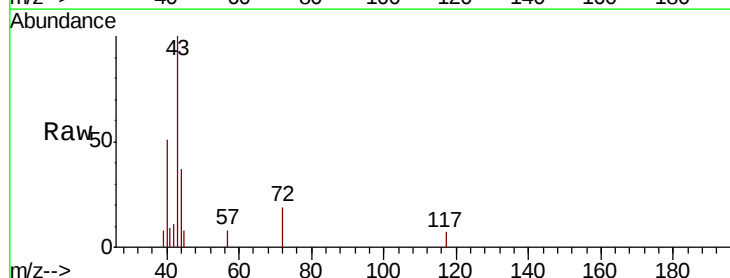
Acq: 16 Apr 2019 19:04

Tgt Ion: 43 Resp: 7113

Ion Ratio Lower Upper

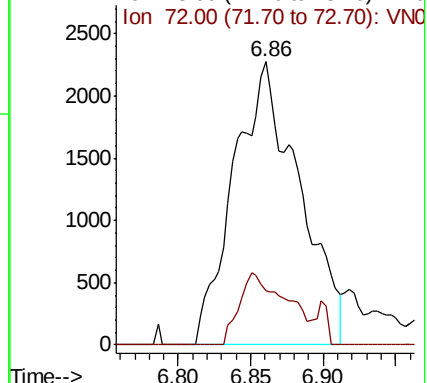
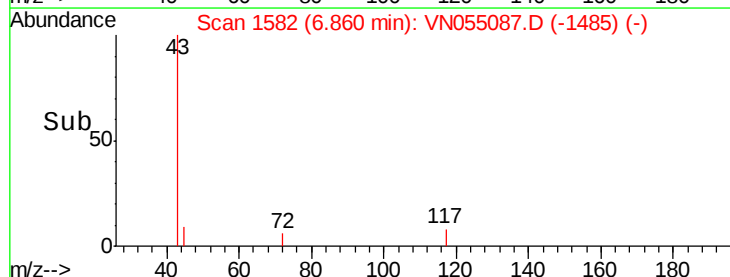
43 100

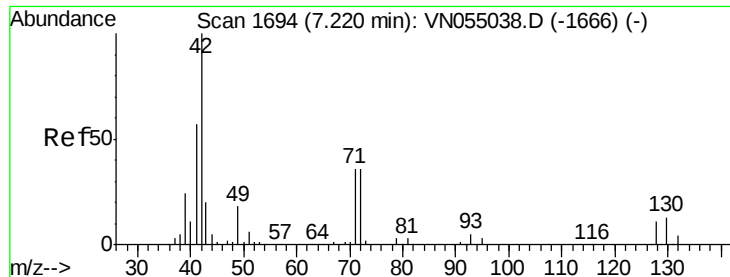
72 19.1 18.1 27.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

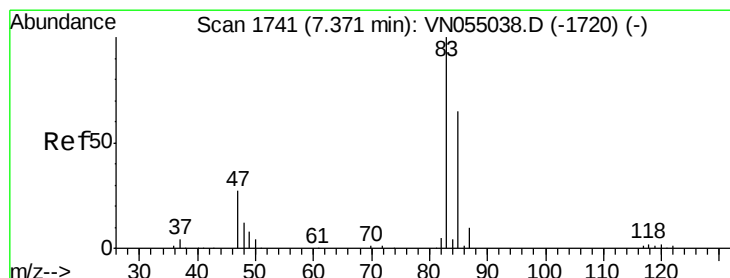
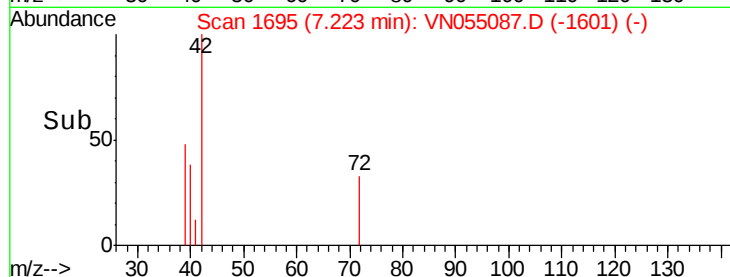
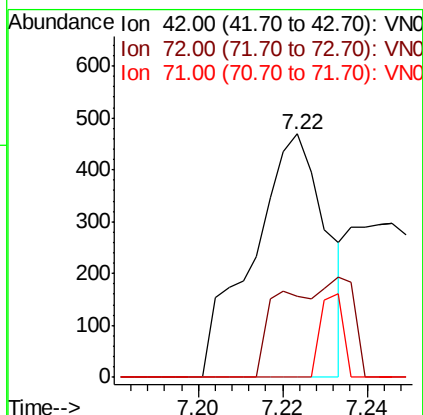
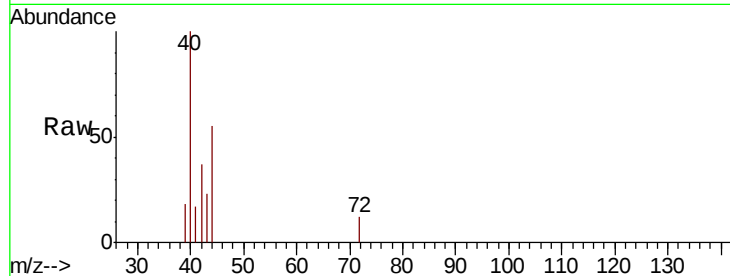




#29
Tetrahydrofuran
Concen: 0.291 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN055087.D
Acq: 16 Apr 2019 19:04

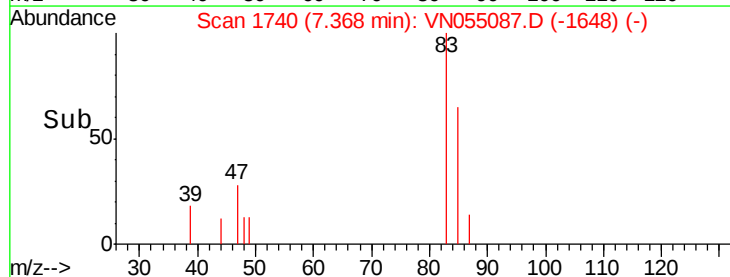
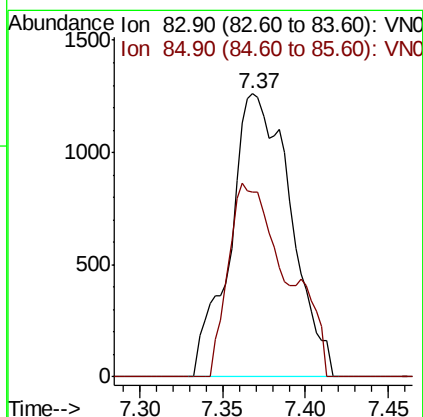
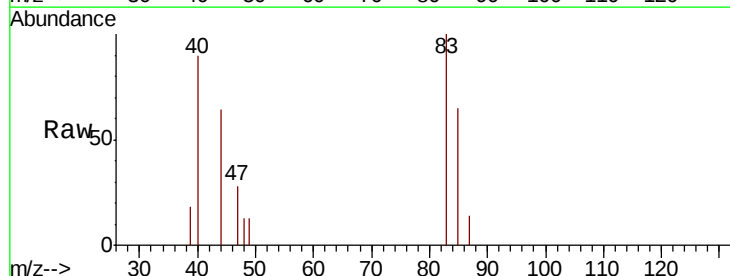
Instrument :
MSVOA_N
ClientSampled :
TP-14-S

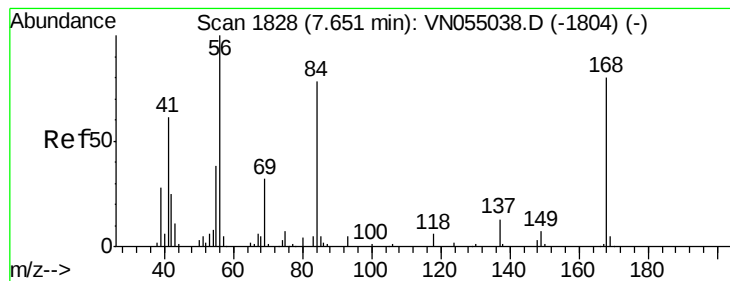
Tot Ion: 42 Resp: 566
Ion Ratio Lower Upper
42 100
72 21.4 29.4 44.0#
71 10.6 27.8 41.6#



#30
Chloroform
Concen: 0.282 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN055087.D
Acq: 16 Apr 2019 19:04

Tgt Ion: 83 Resp: 3211
Ion Ratio Lower Upper
83 100
85 65.2 51.8 77.6





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

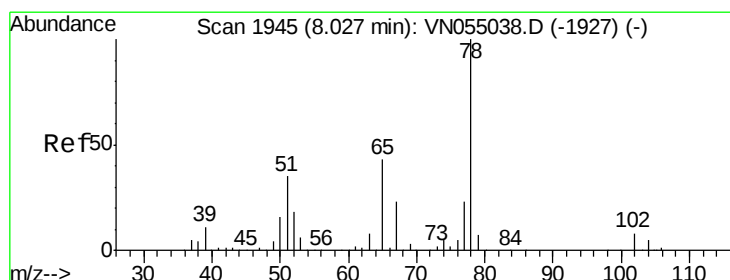
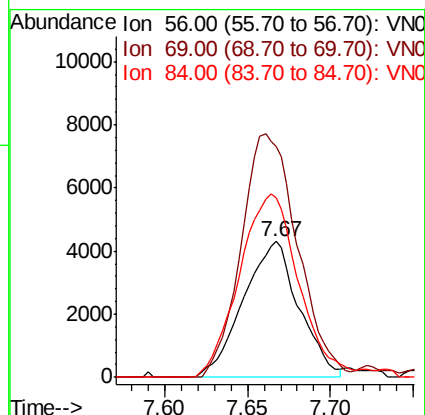
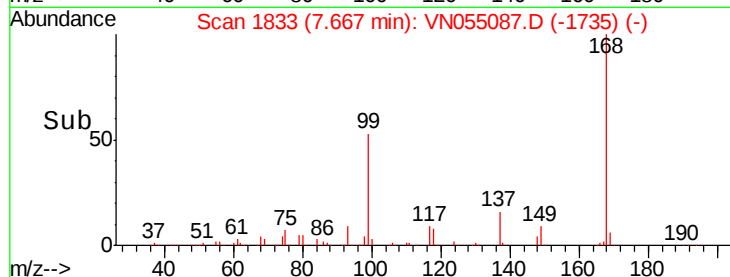
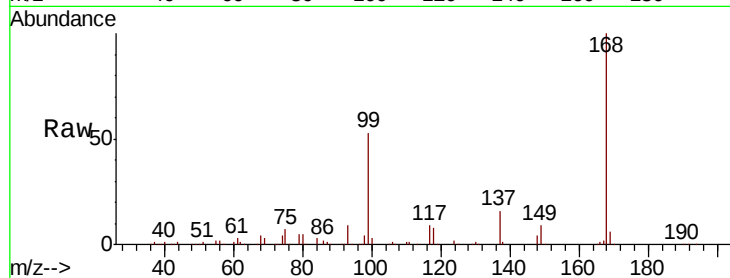
Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

Instrument :
MSVOA_N
ClientSampled :
TP-14-S

Tot Ion: 56 Resp: 10114

Ion	Ratio	Lower	Upper
56	100		
69	170.1	24.5	36.7#
84	132.3	62.9	94.3#



#33

1,2-Dichloroethane-d4

Concen: 46.659 ug/l

RT: 8.03 min Scan# 1945

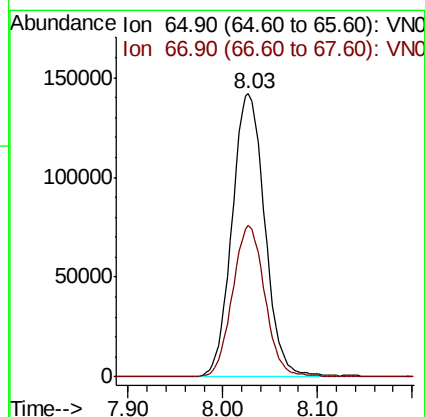
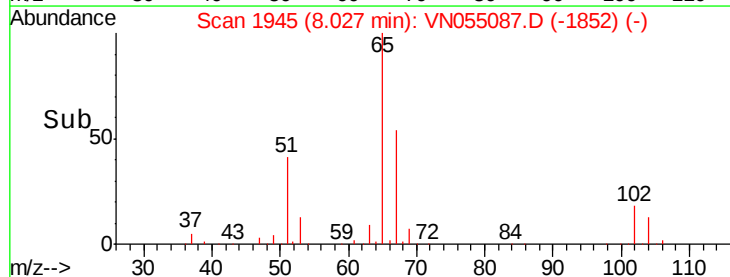
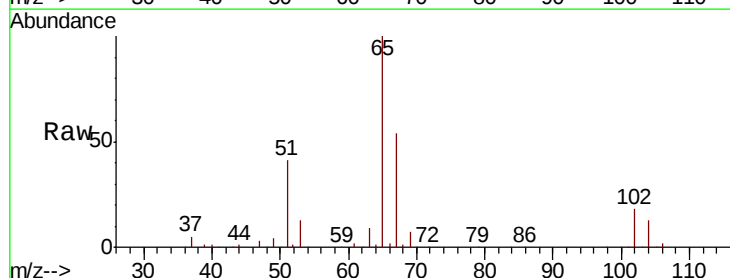
Delta R.T. 0.00 min

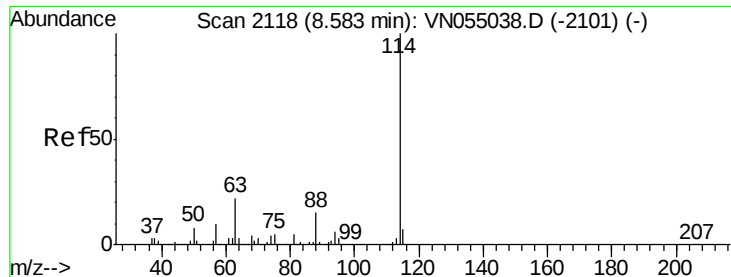
Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

Tgt Ion: 65 Resp: 341635

Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	106.4

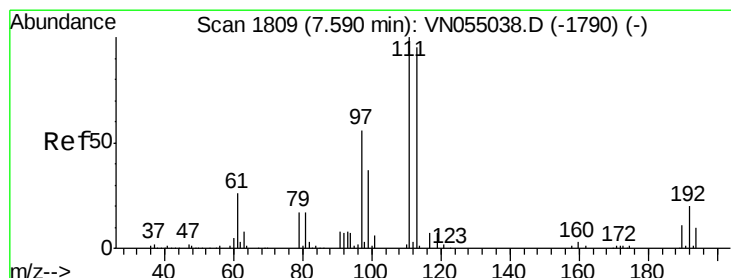
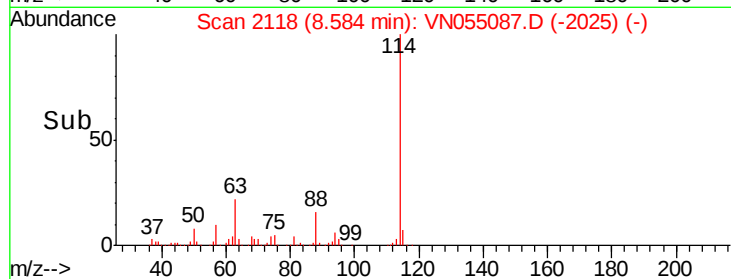
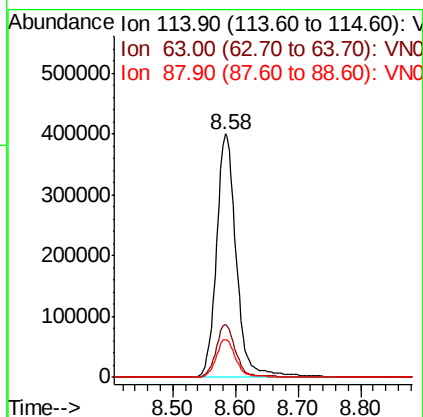
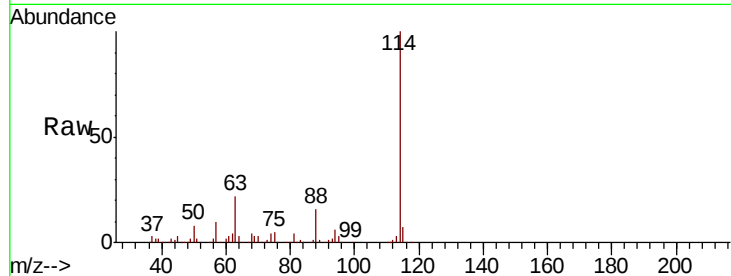




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN055087.D
 Acq: 16 Apr 2019 19:04

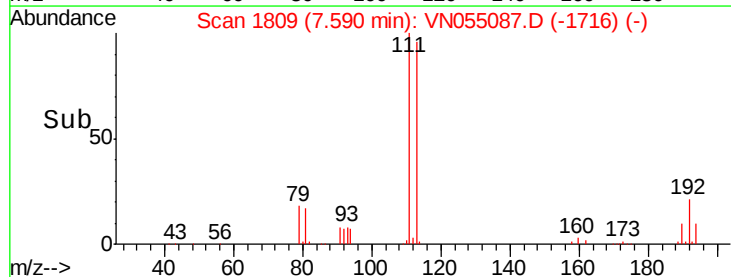
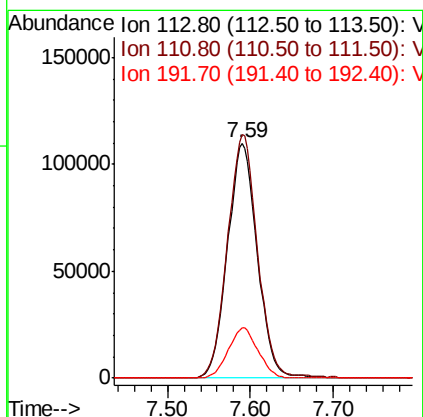
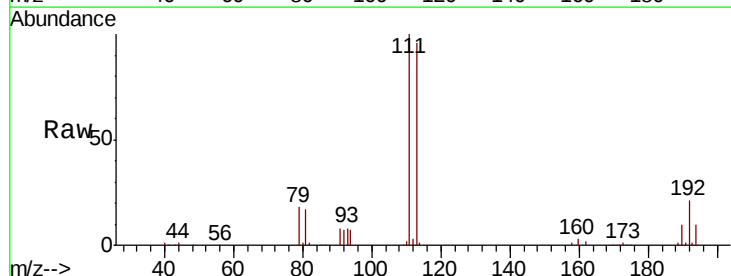
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 MSVOA_N
 ClientSampled :
 TP-14-S

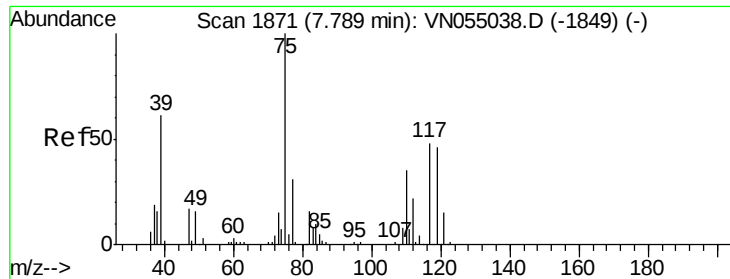
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.6	0.0	45.2
88	15.6	0.0	31.8



#35
 Dibromofluoromethane
 Concen: 46.639 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN055087.D
 Acq: 16 Apr 2019 19:04

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.5	82.1	123.1
192	21.5	16.5	24.7

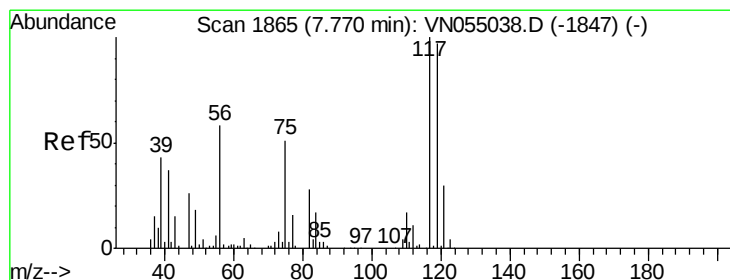
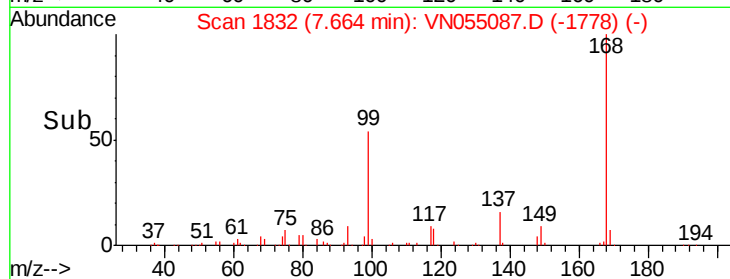
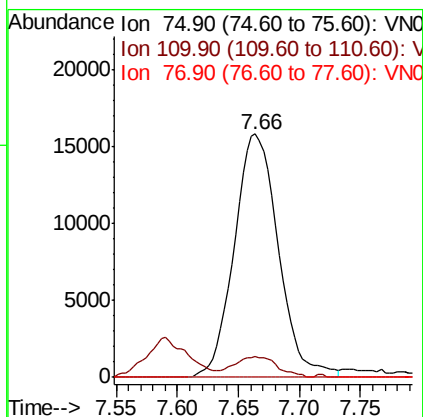
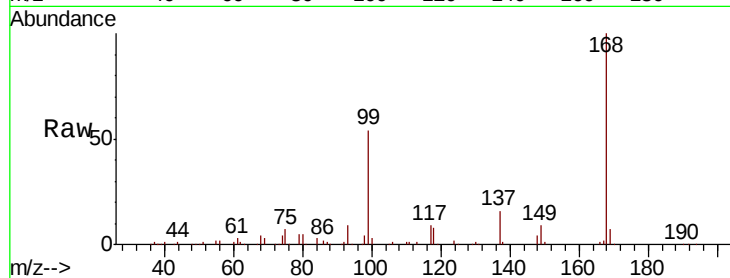




#36
 1,1-Dichloropropene
 Concen: 4.786 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN055087.D
 Acq: 16 Apr 2019 19:04

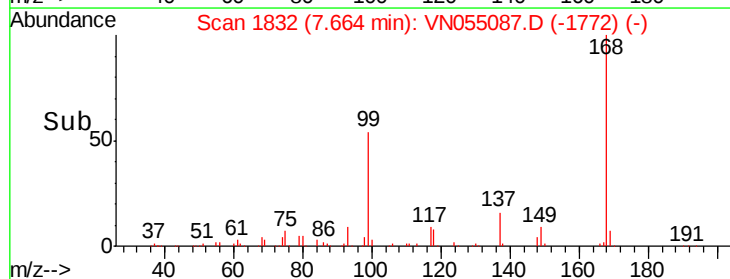
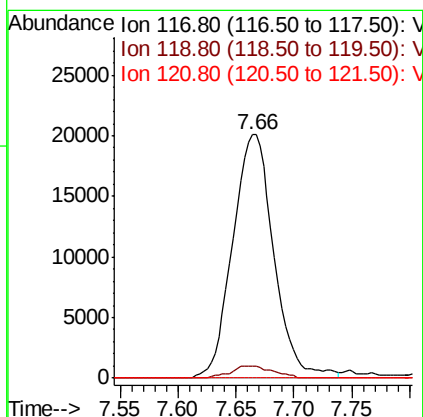
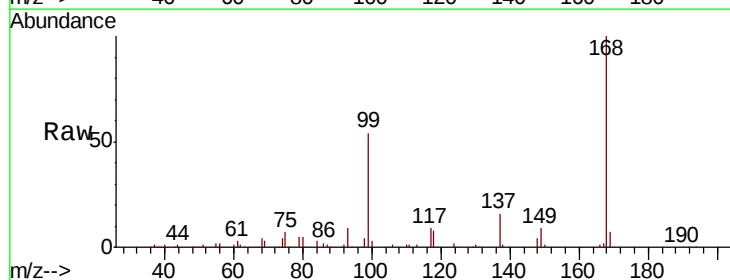
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-14-S

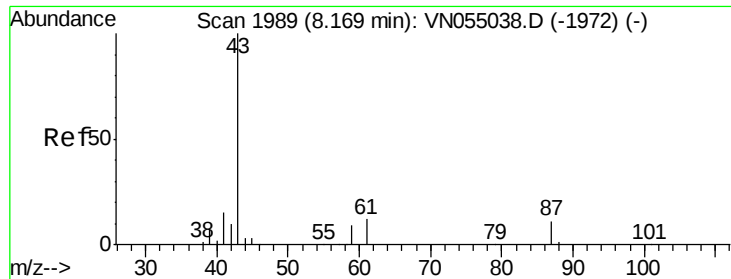
Tot Ion: 75 Resp: 39718
 Ion Ratio Lower Upper
 75 100
 110 8.5 17.5 52.5#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 6.274 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN055087.D
 Acq: 16 Apr 2019 19:04

Tgt Ion: 117 Resp: 49533
 Ion Ratio Lower Upper
 117 100
 119 5.1 76.3 114.5#
 121 0.0 23.9 35.9#





#43

Isopropyl Acetate

Concen: 1.435 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

TP-14-S

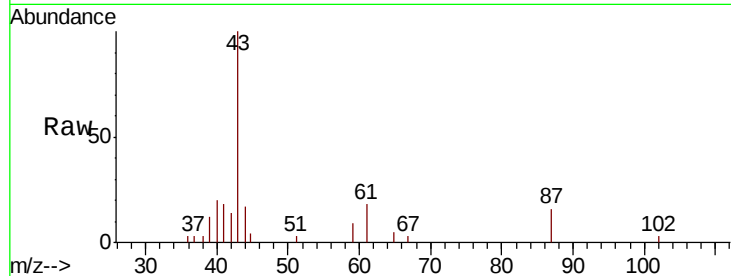
Tot Ion: 43 Resp: 14933

Ion Ratio Lower Upper

43 100

61 17.0 14.3 21.5

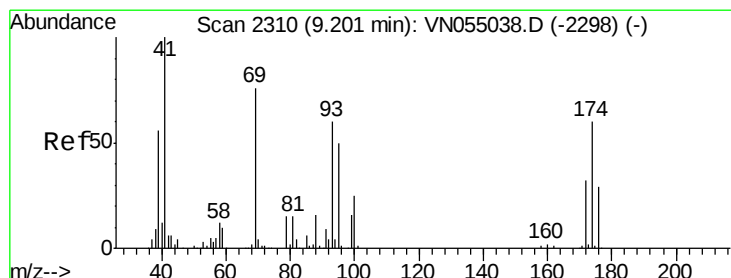
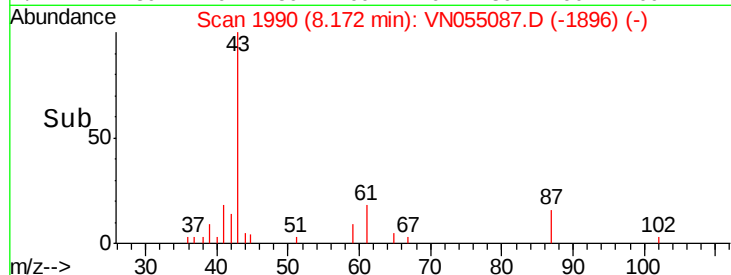
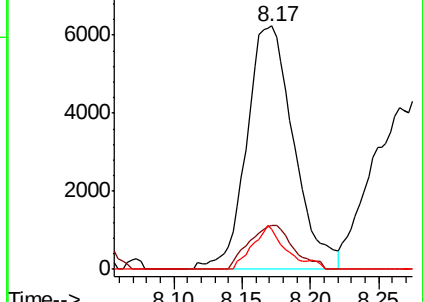
87 11.9 8.6 13.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.471 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

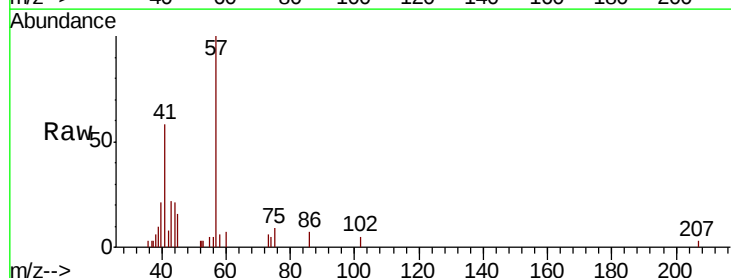
Tgt Ion: 41 Resp: 7588

Ion Ratio Lower Upper

41 100

69 0.0 60.5 90.7#

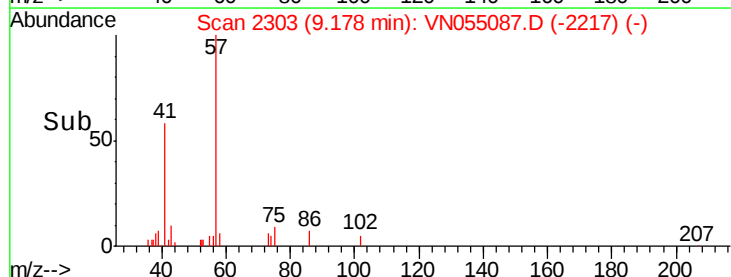
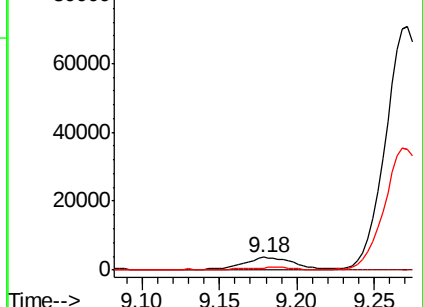
39 0.0 43.9 65.9#

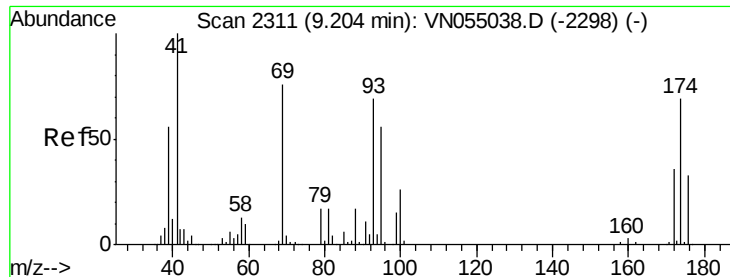


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#49

1,4-Dioxane

Concen: 2.048 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.06 min

Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

TP-14-S

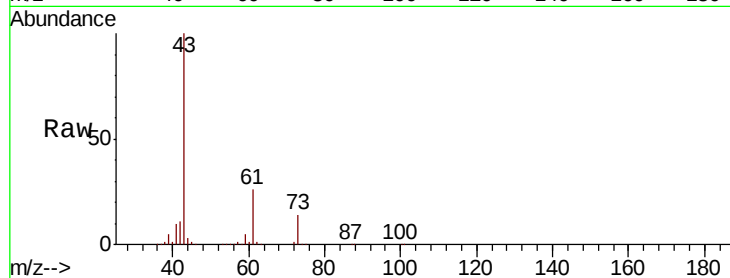
Tot Ion: 88 Resp: 99

Ion Ratio Lower Upper

88 100

43 1406970.7 31.8 47.8#

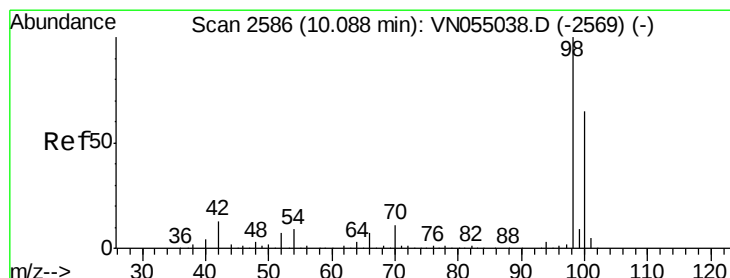
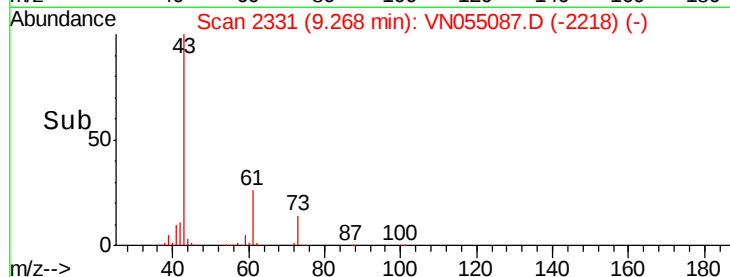
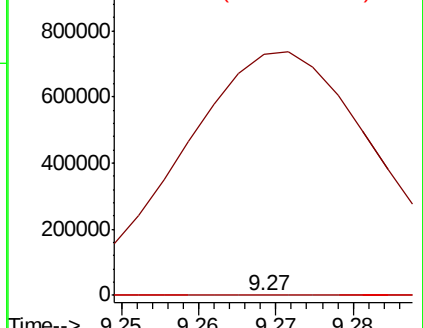
58 5896.0 61.6 92.4#



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: 49.340 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN055087.D

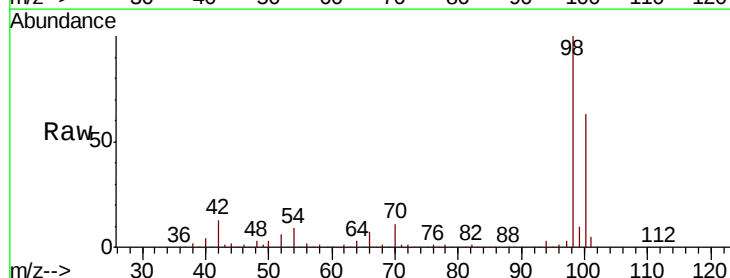
Acq: 16 Apr 2019 19:04

Tgt Ion: 98 Resp: 1038900

Ion Ratio Lower Upper

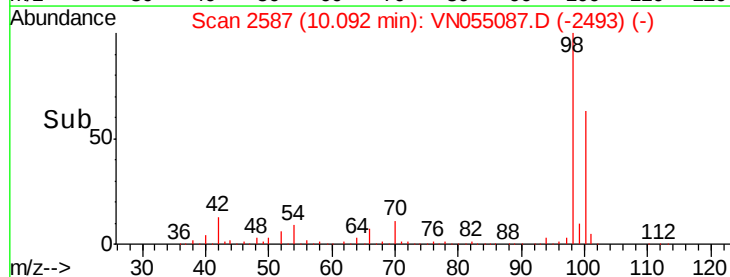
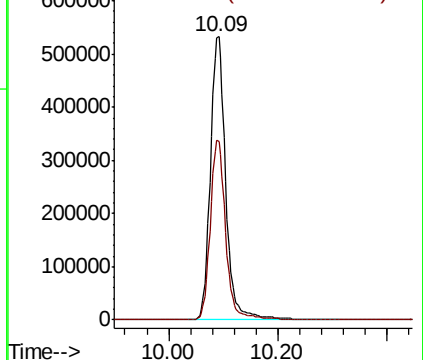
98 100

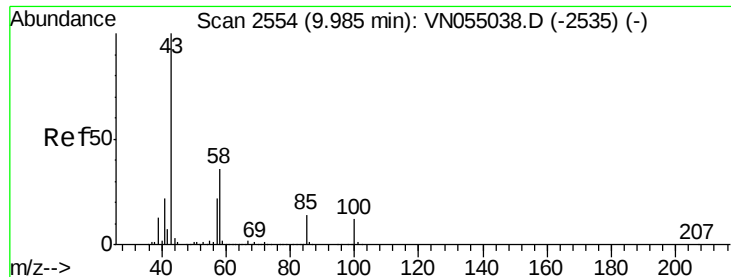
100 63.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.570 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

Instrument :

MSVOA_N

ClientSampled :

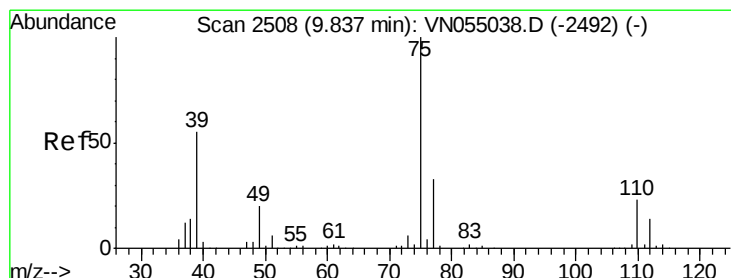
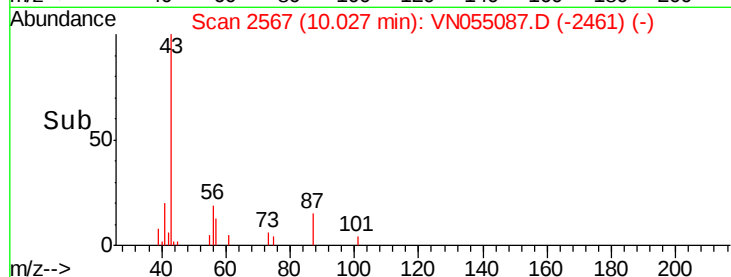
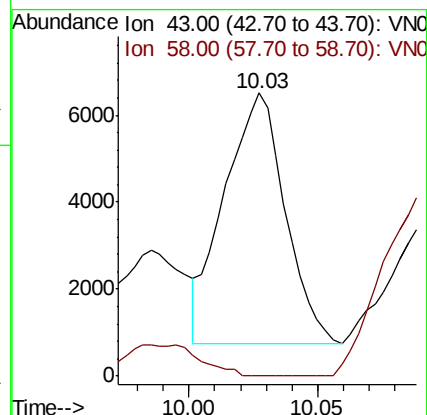
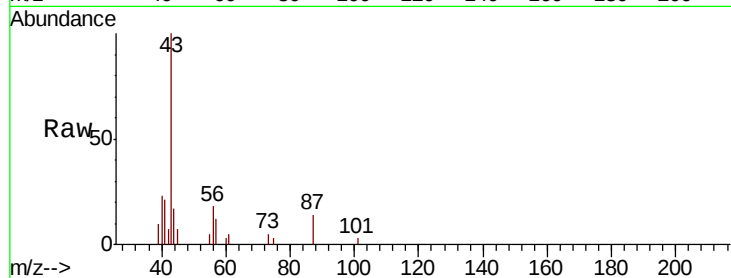
TP-14-S

Tot Ion: 43 Resp: 9441

Ion Ratio Lower Upper

43 100

58 0.0 29.0 43.4#



#54

cis-1,3-Dichloropropene

Concen: 5.782 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

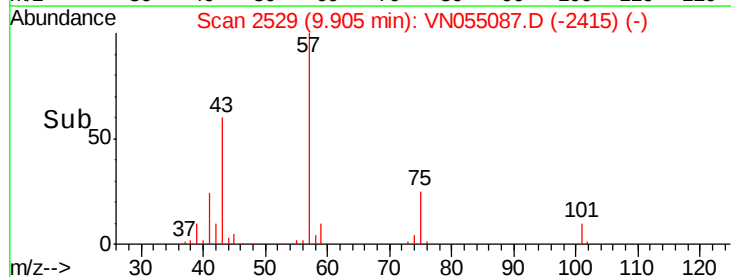
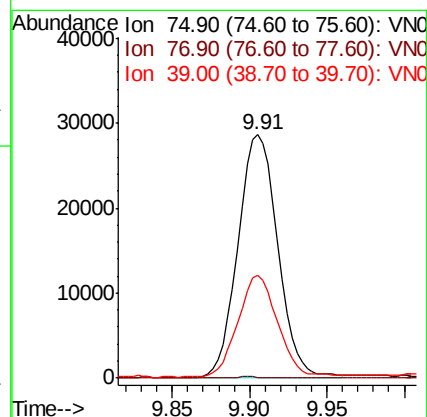
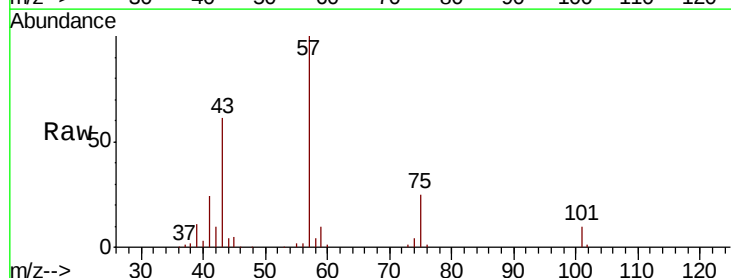
Tgt Ion: 75 Resp: 51334

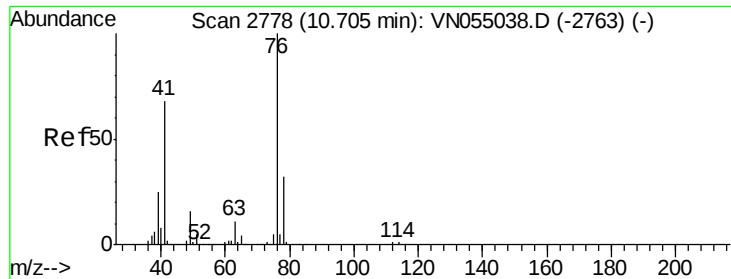
Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.6#

39 41.4 43.8 65.8#

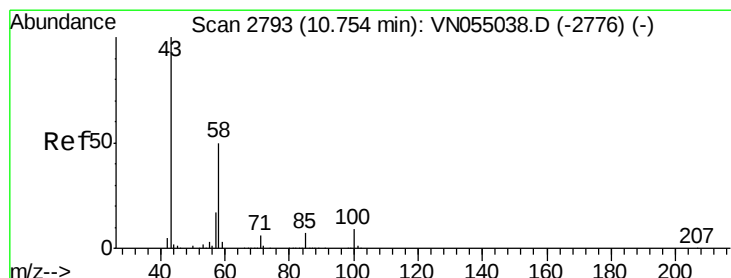
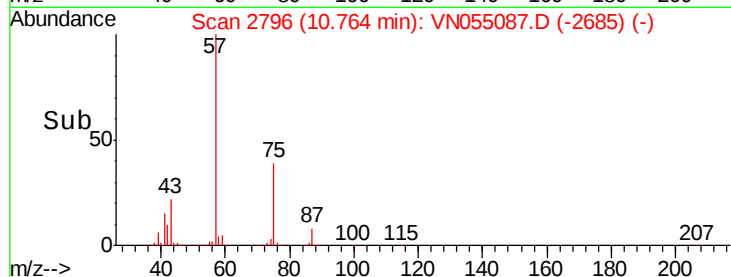
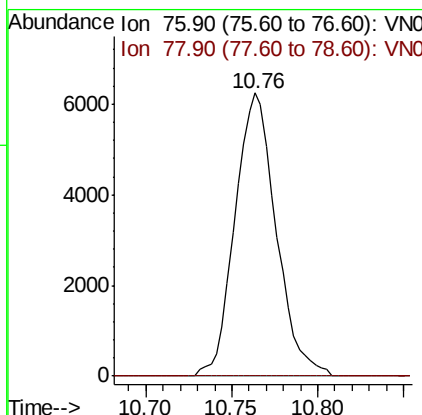
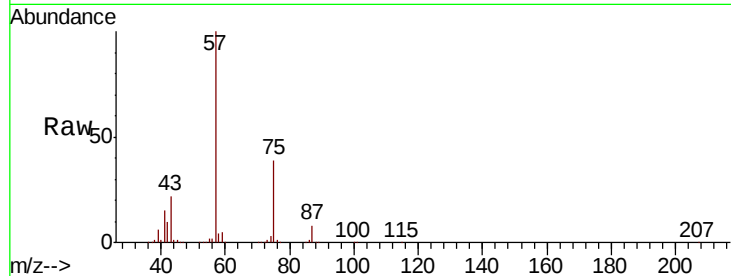




#57
 1,3-Dichloropropane
 Concen: 1.100 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN055087.D
 Acq: 16 Apr 2019 19:04

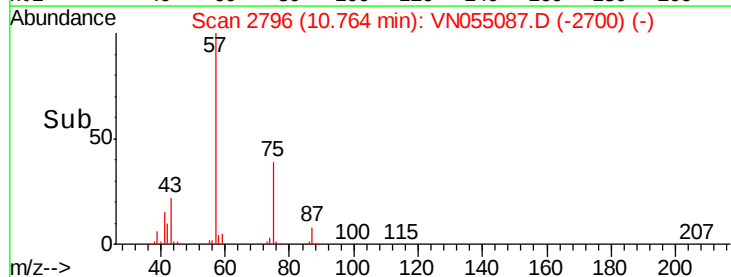
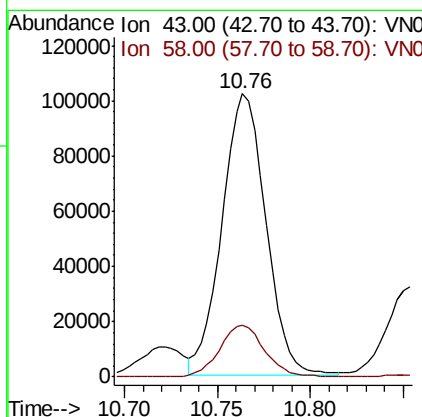
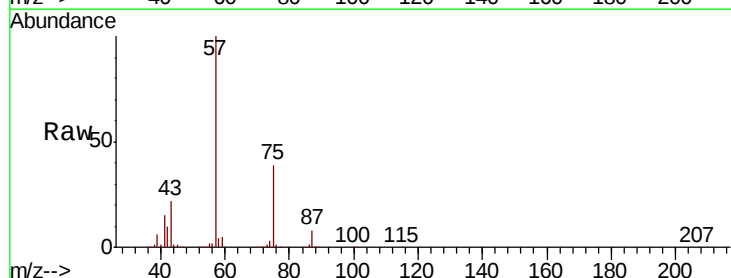
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-14-S

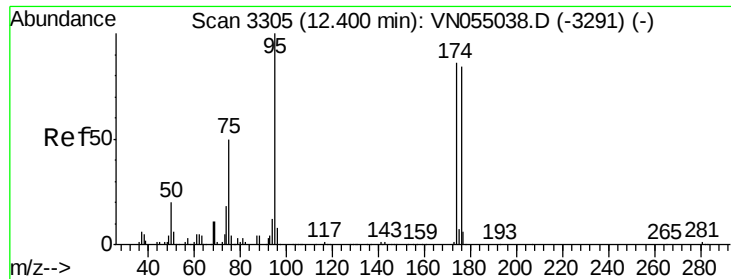
Tot Ion: 76 Resp: 10340
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 44.222 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN055087.D
 Acq: 16 Apr 2019 19:04

Tgt Ion: 43 Resp: 167040
 Ion Ratio Lower Upper
 43 100
 58 19.0 25.1 75.2#





#62

4-Bromofluorobenzene

Concen: 43.410 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

TP-14-S

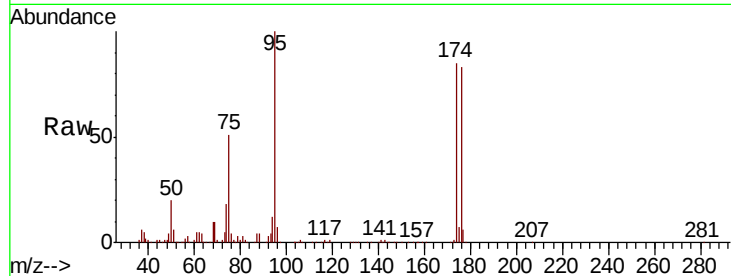
Tot Ion: 95 Resp: 297147

Ion Ratio Lower Upper

95 100

174 85.1 0.0 174.4

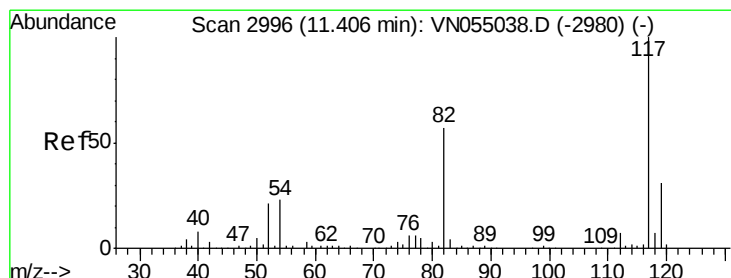
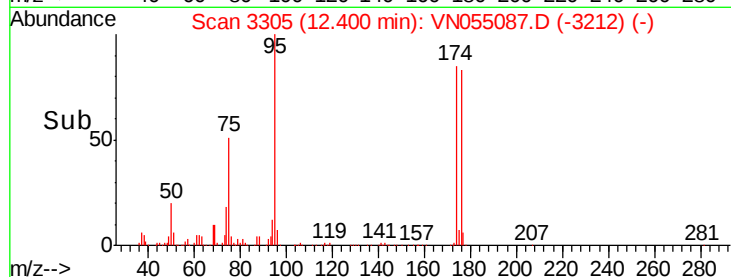
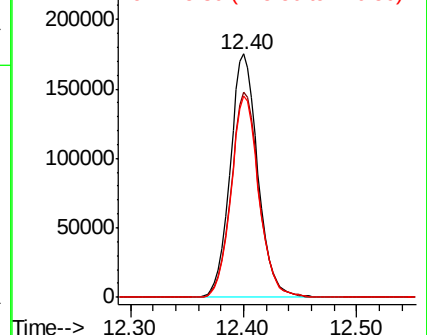
176 82.9 0.0 166.8



Abundance Ion 94.90 (94.60 to 95.60): VN055087.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN055087.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN055087.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

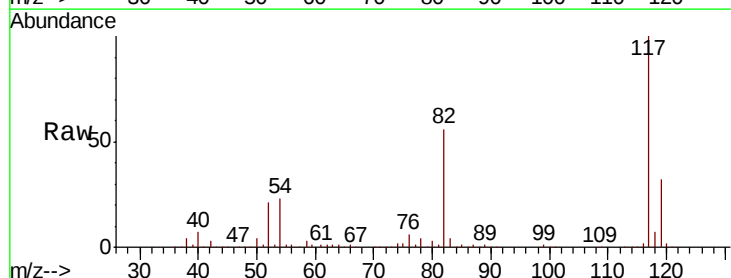
Tgt Ion: 117 Resp: 730893

Ion Ratio Lower Upper

117 100

82 56.4 44.6 66.8

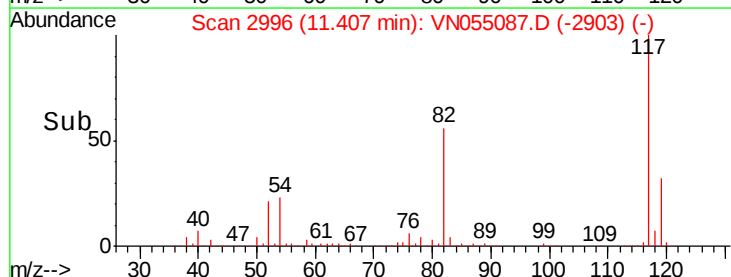
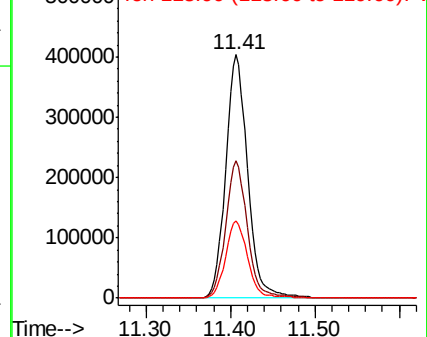
119 31.8 25.5 38.3

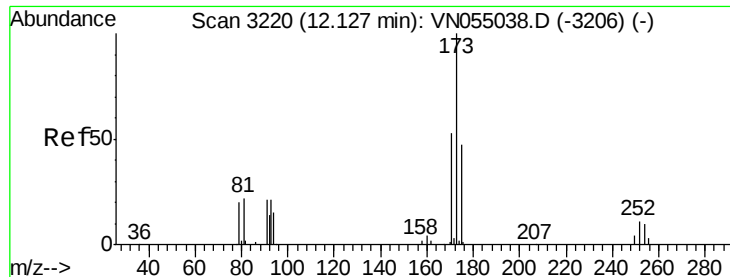


Abundance Ion 116.90 (116.60 to 117.60): VN055087.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN055087.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN055087.D (-2903) (-)





#71

Bromoform

Concen: 0.897 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

TP-14-S

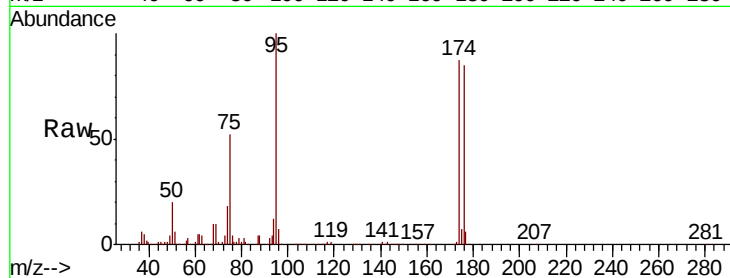
Tot Ion:173 Resp: 2783

Ion Ratio Lower Upper

173 100

175 611.6 24.3 73.0#

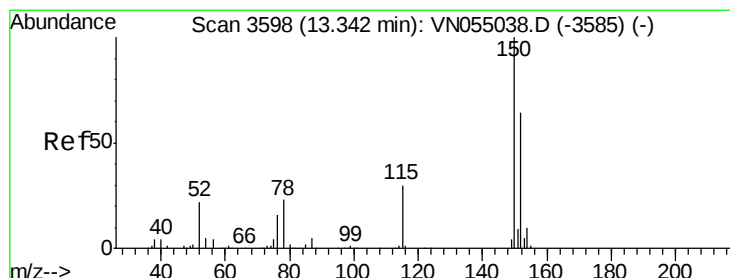
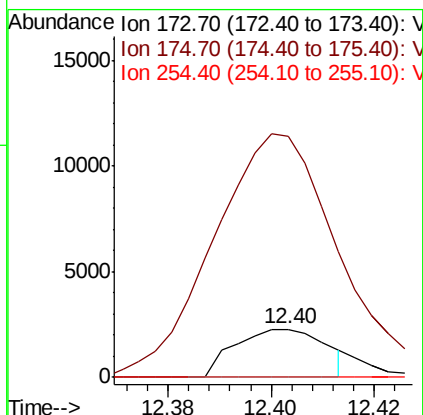
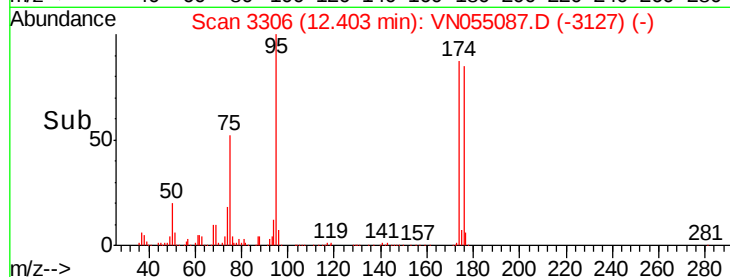
254 0.0 0.1 0.1#



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: VN055087.D

Acq: 16 Apr 2019 19:04

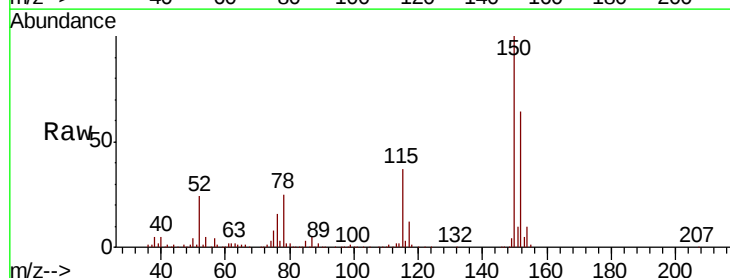
Tgt Ion:152 Resp: 236406

Ion Ratio Lower Upper

152 100

115 57.5 28.5 85.6

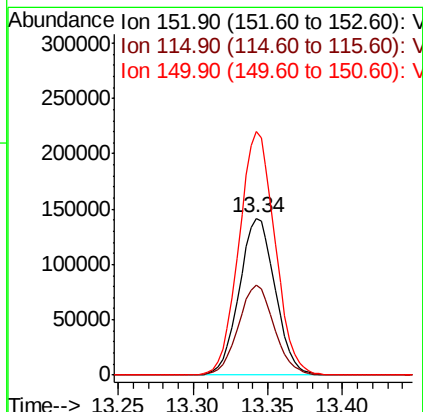
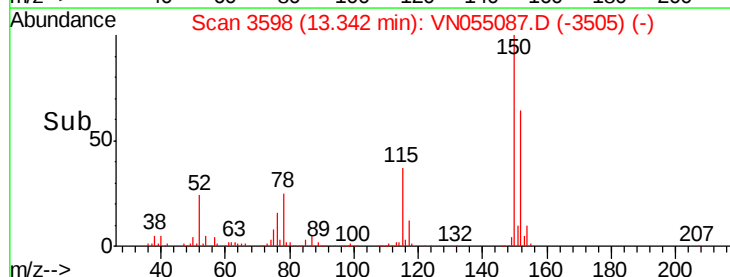
150 156.0 0.0 347.2

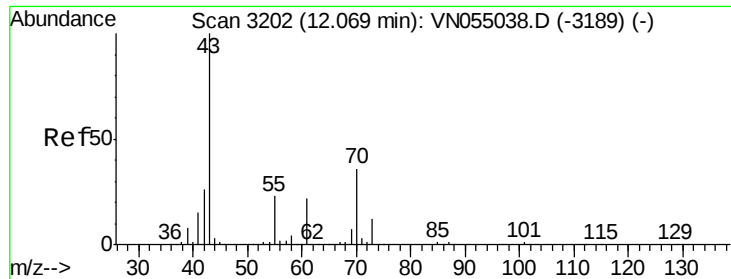


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.704 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

TP-14-S

Tot Ion: 43 Resp: 15967

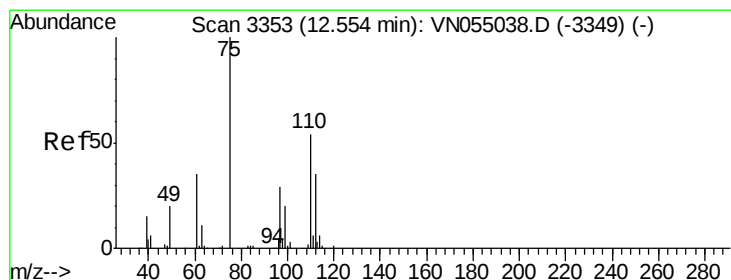
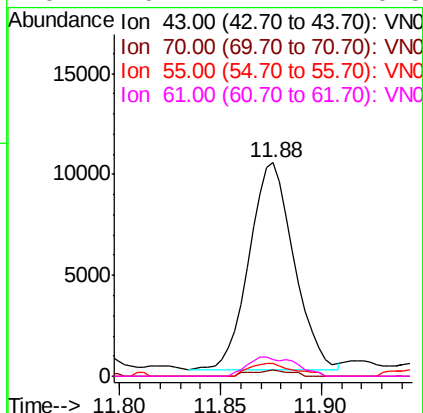
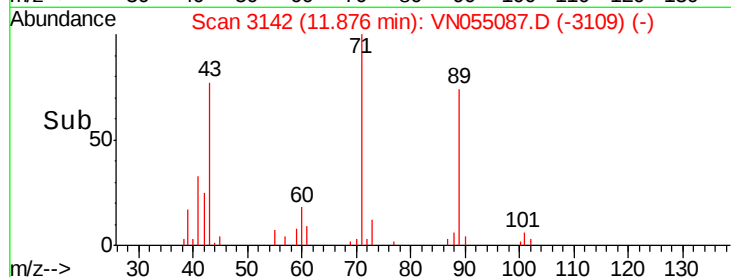
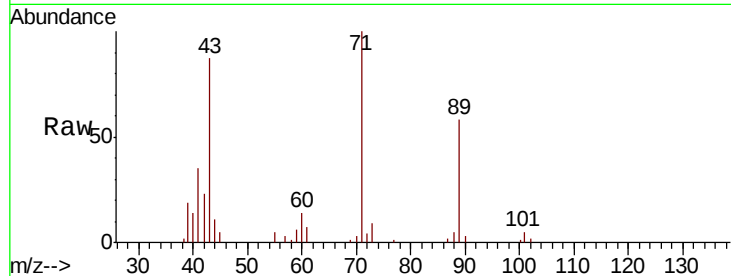
Ion Ratio Lower Upper

43 100

70 2.7 29.4 44.0#

55 6.2 19.0 28.4#

61 10.1 17.7 26.5#



#76

1,2,3-Trichloropropane

Concen: 36.058 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055087.D

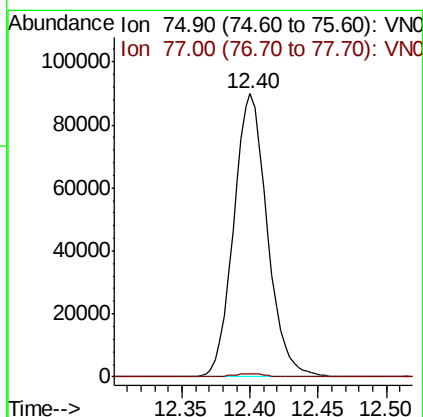
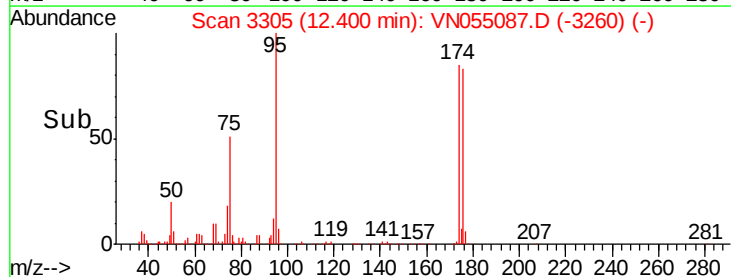
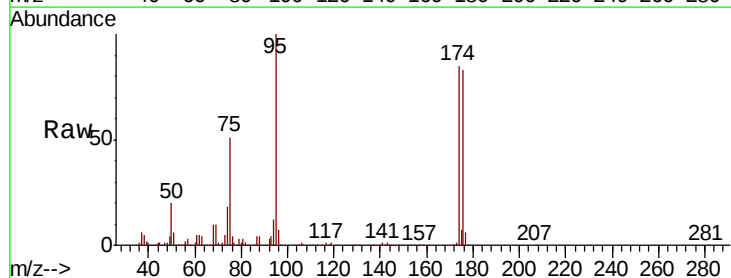
Acq: 16 Apr 2019 19:04

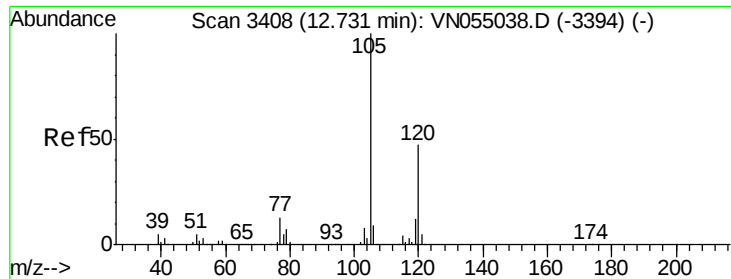
Tgt Ion: 75 Resp: 153289

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.239 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

Instrument :

MSVOA_N

ClientSampled :

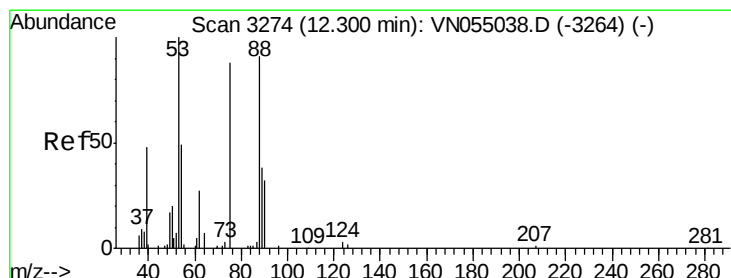
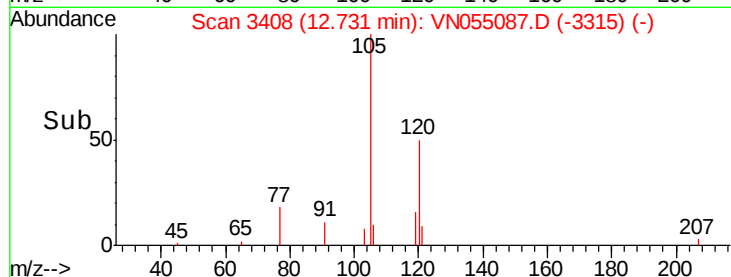
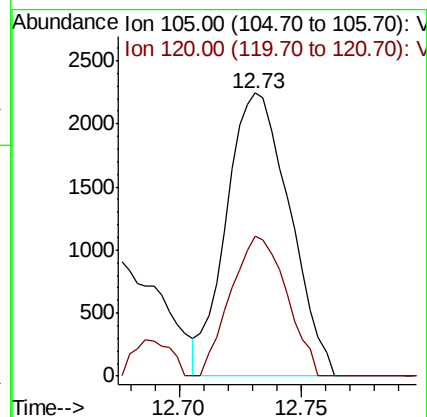
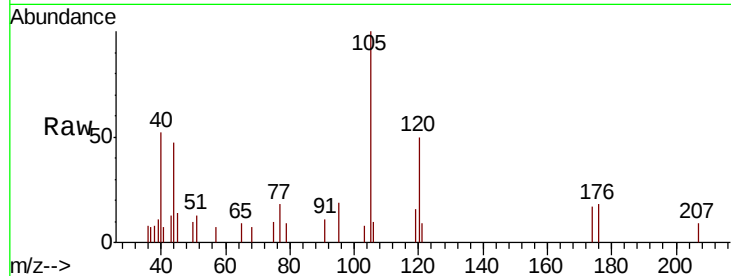
TP-14-S

Tot Ion:105 Resp: 4043

Ion Ratio Lower Upper

105 100

120 43.8 24.3 72.8



#81

trans-1,4-Dichloro-2-butene

Concen: 144.192 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

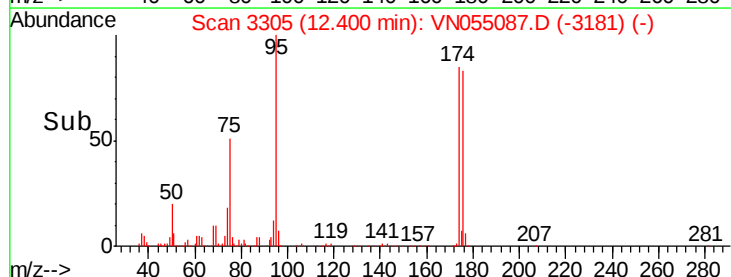
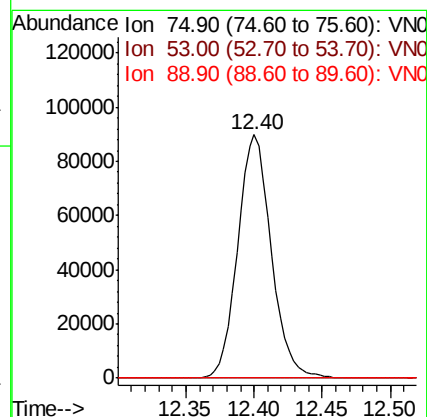
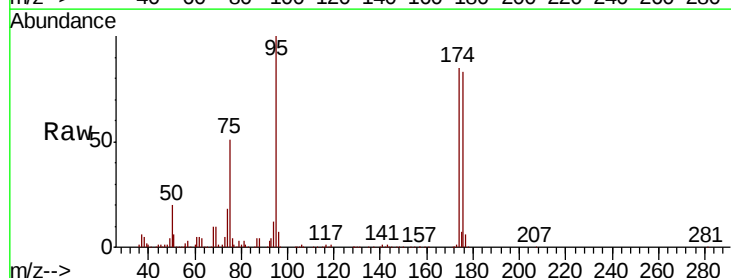
Tgt Ion: 75 Resp: 153289

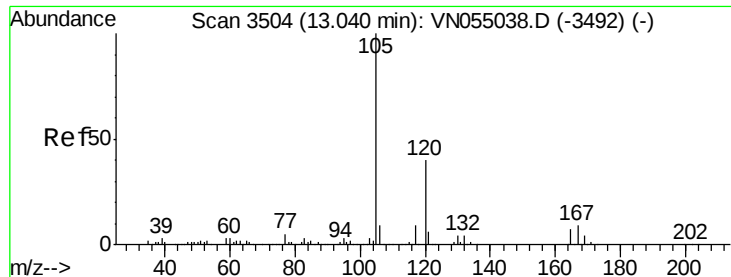
Ion Ratio Lower Upper

75 100

53 0.0 96.3 144.5#

89 0.0 38.6 57.8#





#84

1,2,4-Trimethylbenzene

Concen: 0.378 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. -0.00 min

Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

Instrument :

MSVOA_N

ClientSampled :

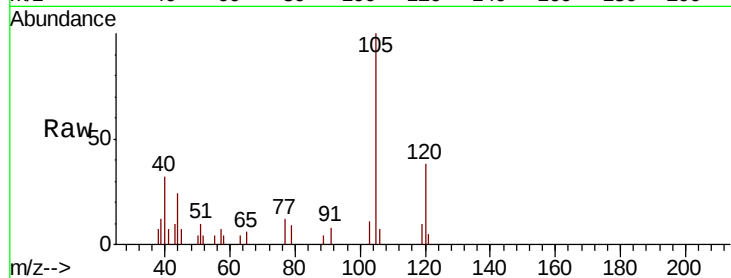
TP-14-S

Tot Ion:105 Resp: 6069

Ion Ratio Lower Upper

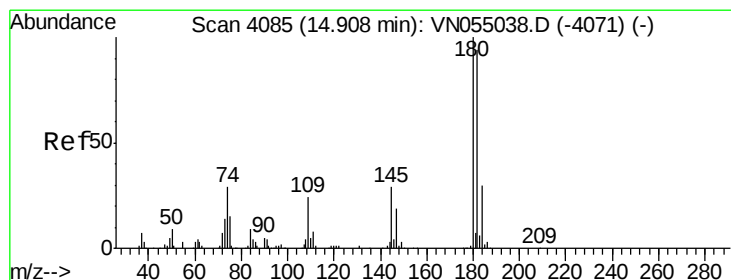
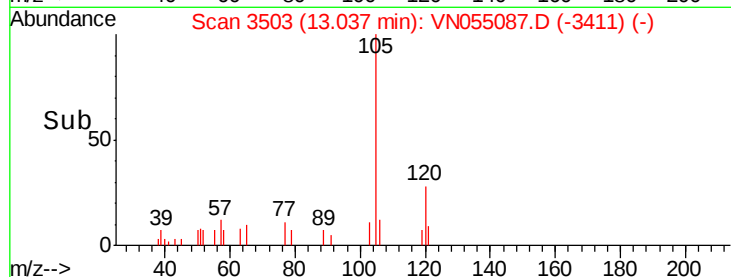
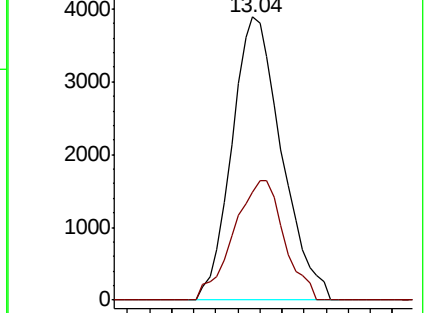
105 100

120 43.0 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#93

1,2,4-Trichlorobenzene

Concen: 2.744 ug/l

RT: 14.90 min Scan# 4083

Delta R.T. -0.01 min

Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

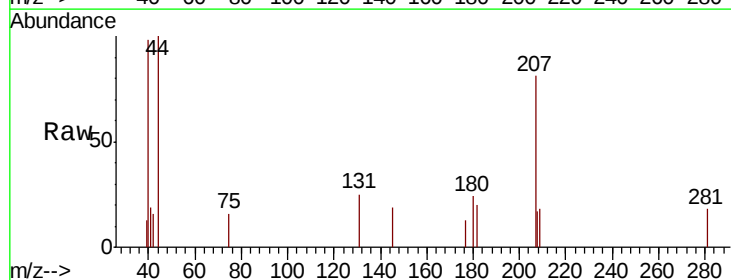
Tgt Ion:180 Resp: 255

Ion Ratio Lower Upper

180 100

182 129.0 47.5 142.6

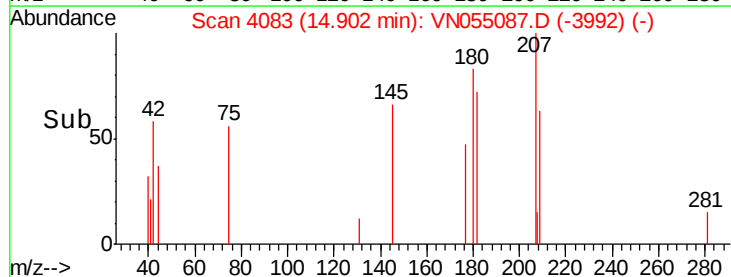
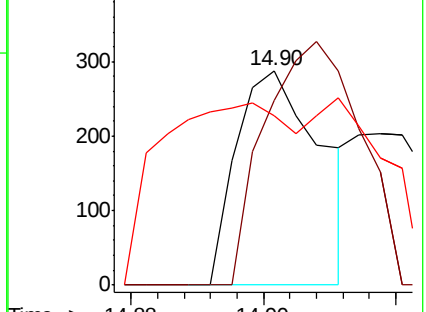
145 132.2 14.2 42.8#

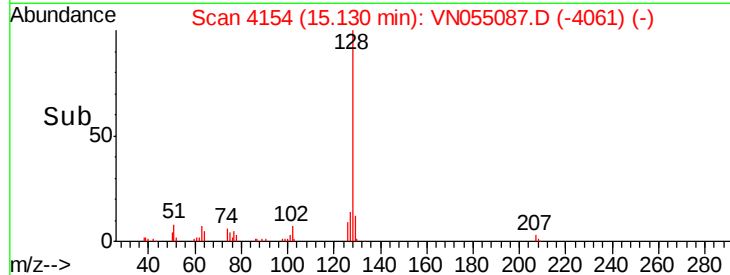
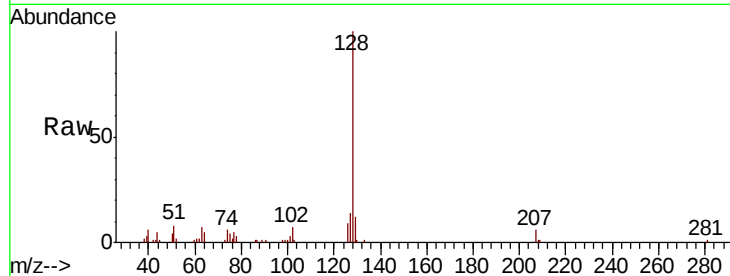
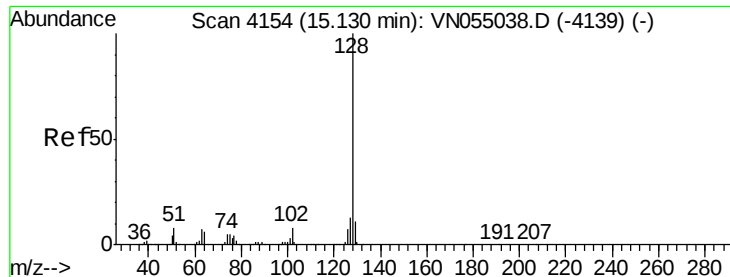


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 7.314 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055087.D

Acq: 16 Apr 2019 19:04

Instrument :

MSVOA_N

ClientSampleId :

TP-14-S

Tot Ion:128 Resp: 38267

Ion Ratio Lower Upper

128 100

127 13.1 10.1 15.1

129 11.0 8.8 13.2

