

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057999.D
 Acq On : 13 Sep 2019 2:43
 Operator : JC/SP
 Sample : K4644-29
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E1-(4)

Quant Time: Sep 13 04:54:31 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	257051	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	457210	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	409205	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	211206	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	318319	61.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	122.28%	
35) Dibromofluoromethane	7.58	113	217037	51.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.86%	
50) Toluene-d8	10.09	98	826159	50.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.86%	
62) 4-Bromofluorobenzene	12.41	95	270288	43.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.58%	

Target Compounds

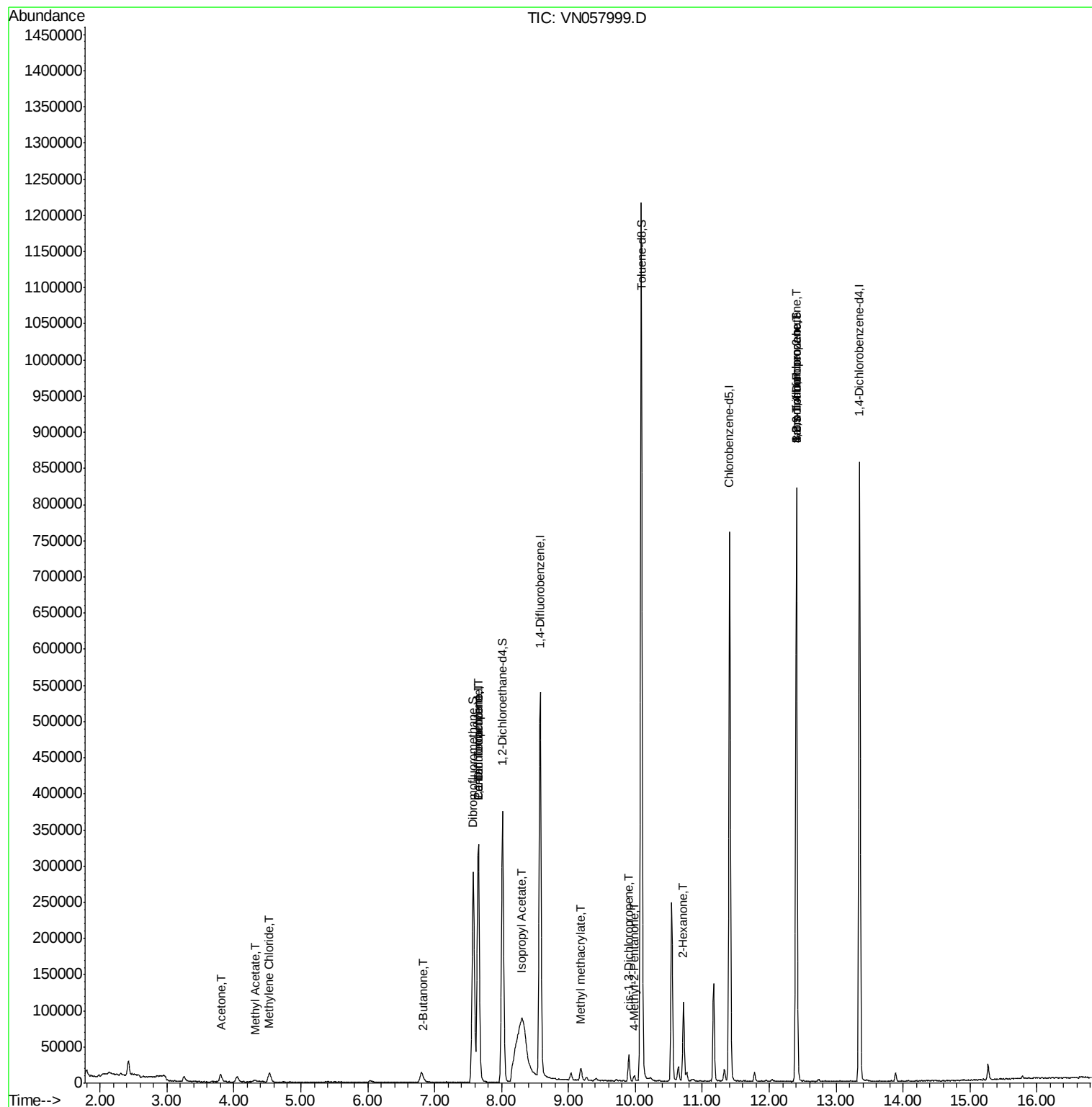
					Qvalue	
5) Bromomethane	2.55	94	59	Below Cal	#	2
16) Acetone	3.80	43	18179	10.651	ug/l	100
18) Methyl Acetate	4.32	43	4713	1.036	ug/l #	88
20) Methylene Chloride	4.54	84	9050	1.594	ug/l	95
25) 2-Butanone	6.83	43	1149	0.465	ug/l #	70
31) Cyclohexane	7.65	56	6368	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	22693	4.280	ug/l #	48
38) Carbon Tetrachloride	7.65	117	27143	5.607	ug/l #	17
43) Isopropyl Acetate	8.31	43	326792	35.471	ug/l #	56
48) Methyl methacrylate	9.18	41	4546	0.973	ug/l #	27
51) 4-Methyl-2-Pentanone	9.98	43	5831	1.070	ug/l	90
54) cis-1,3-Dichloropropene	9.90	75	6228	0.956	ug/l #	67
59) 2-Hexanone	10.72	43	86900	21.266	ug/l #	27
71) Bromoform	12.41	173	1263	0.545	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	150628	31.526	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	150628	110.942	ug/l #	6
95) Naphthalene	15.13	128	422	Below Cal	#	69

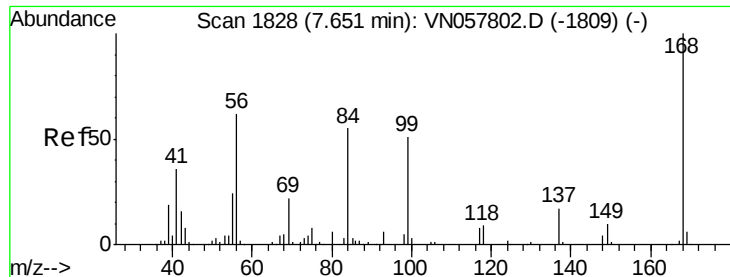
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057999.D

Acq: 13 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampleId :

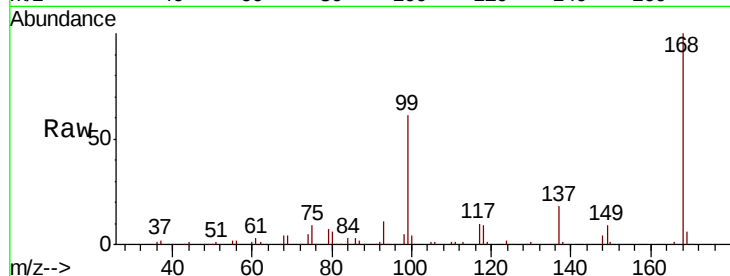
T11-E1-(4)

Tgt Ion:168 Resp: 257051

Ion Ratio Lower Upper

168 100

99 61.2 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

7.65

120000

100000

80000

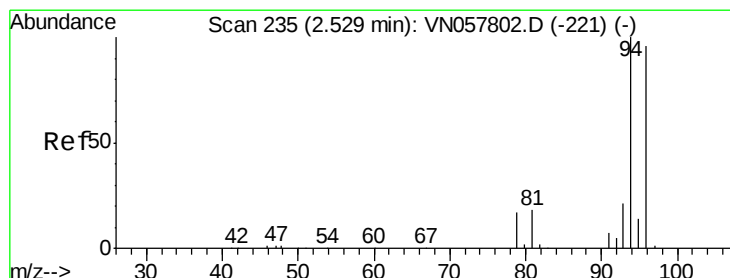
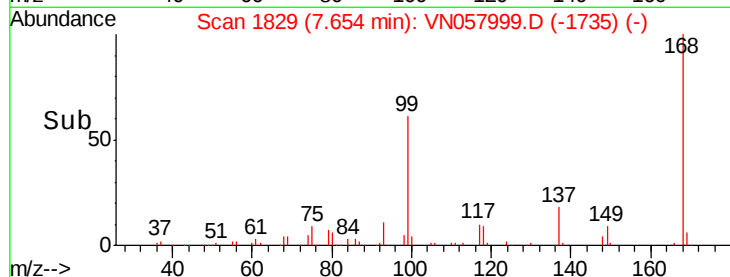
60000

40000

20000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN057999.D

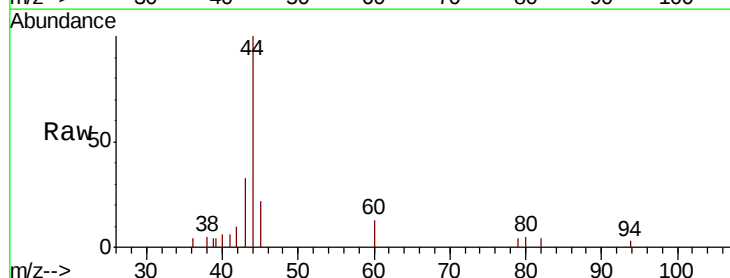
Acq: 13 Sep 2019 2:43

Tgt Ion: 94 Resp: 59

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN057802.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN057802.D (-221) (-)

2.55

200

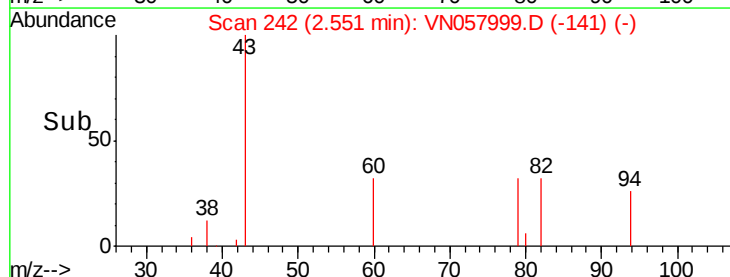
150

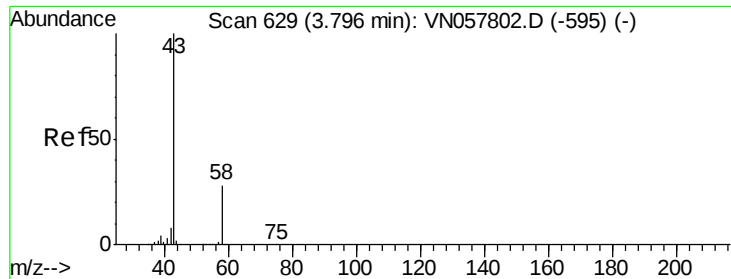
100

50

0

Time--> 2.54 2.55 2.56 2.57





#16

Acetone

Concen: 10.651 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057999.D

Acq: 13 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampleId :

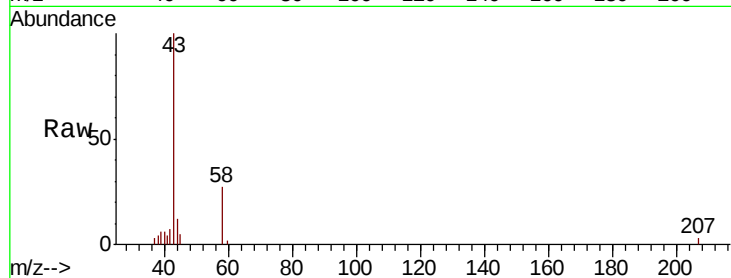
T11-E1-(4)

Tgt Ion: 43 Resp: 18179

Ion Ratio Lower Upper

43 100

58 27.7 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-595) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-595) (-)

8000

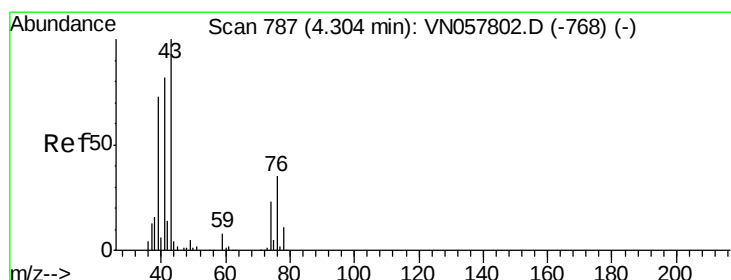
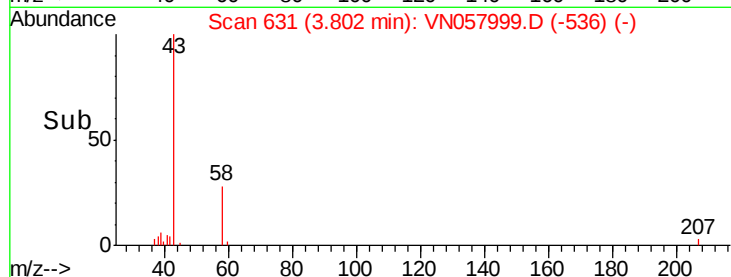
6000

4000

2000

0

Time--> 3.70 3.75 3.80 3.85 3.90



#18

Methyl Acetate

Concen: 1.036 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN057999.D

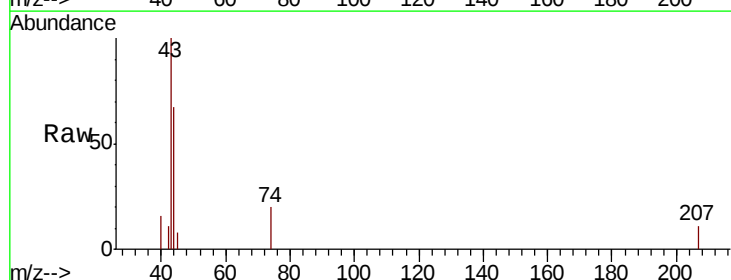
Acq: 13 Sep 2019 2:43

Tgt Ion: 43 Resp: 4713

Ion Ratio Lower Upper

43 100

74 16.8 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-768) (-)

Ion 74.00 (73.70 to 74.70): VN057802.D (-768) (-)

2000

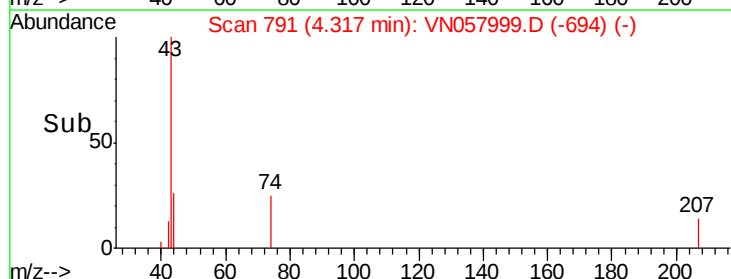
1500

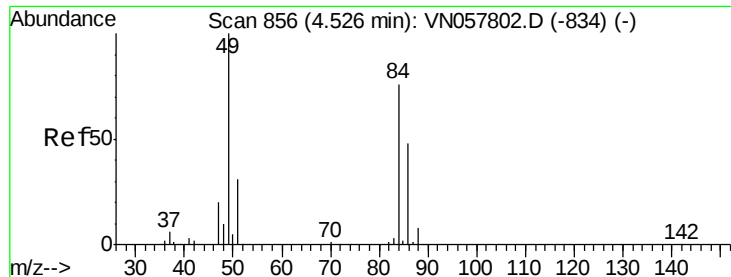
1000

500

0

Time--> 4.25 4.30 4.35

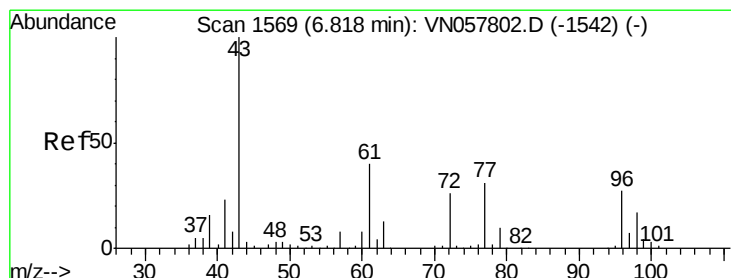
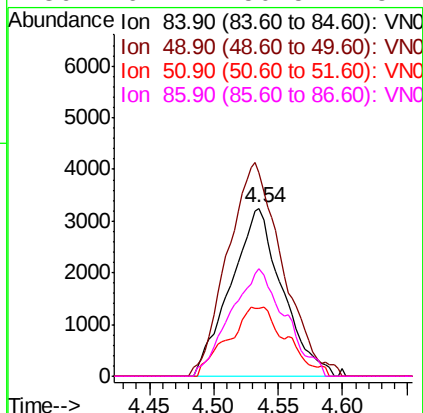
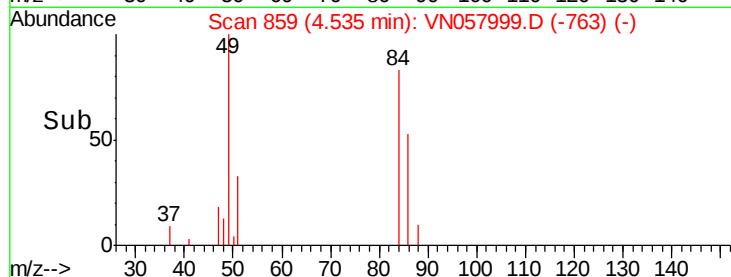
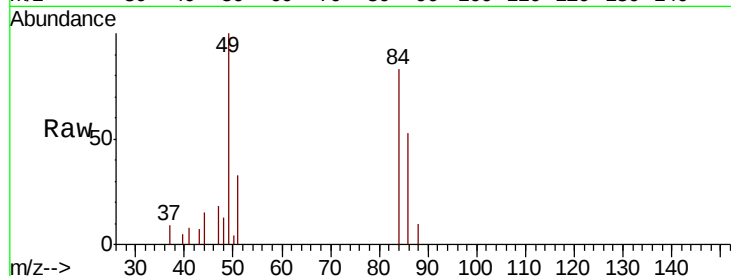




#20
Methylene Chloride
Concen: 1.594 ug/l
RT: 4.54 min Scan# 859
Delta R.T. 0.01 min
Lab File: VN057999.D
Acq: 13 Sep 2019 2:43

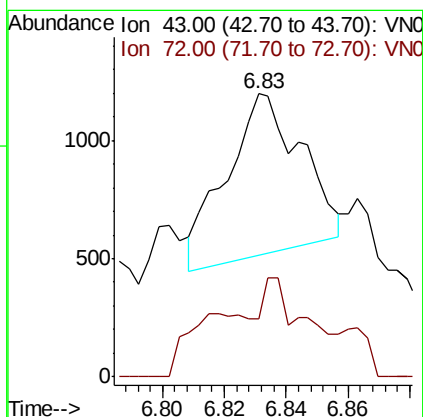
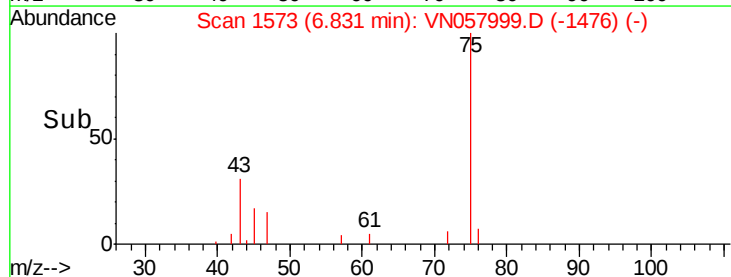
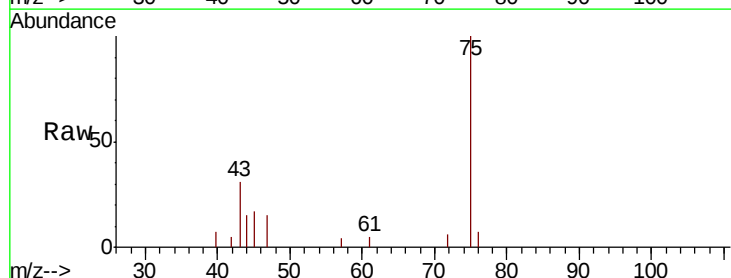
Instrument :
MSVOA_N
ClientSampleId :
T11-E1-(4)

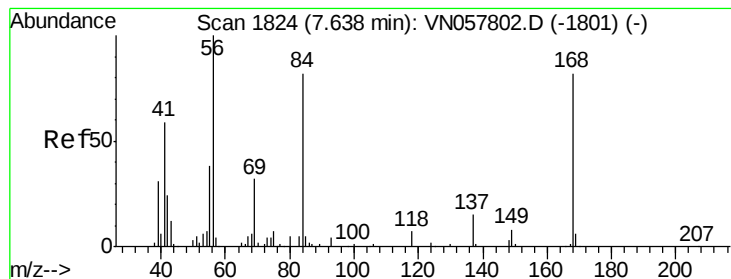
Tgt Ion: 84 Resp: 9050
Ion Ratio Lower Upper
84 100
49 121.2 104.8 157.2
51 40.3 33.0 49.4
86 64.1 50.5 75.7



#25
2-Butanone
Concen: 0.465 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN057999.D
Acq: 13 Sep 2019 2:43

Tgt Ion: 43 Resp: 1149
Ion Ratio Lower Upper
43 100
72 10.6 20.6 30.8#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057999.D

Acq: 13 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampleId :

T11-E1-(4)

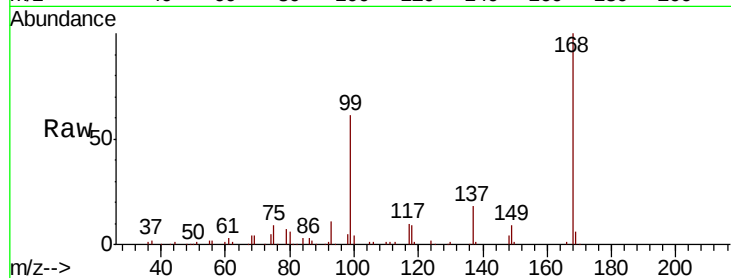
Tgt Ion: 56 Resp: 6368

Ion Ratio Lower Upper

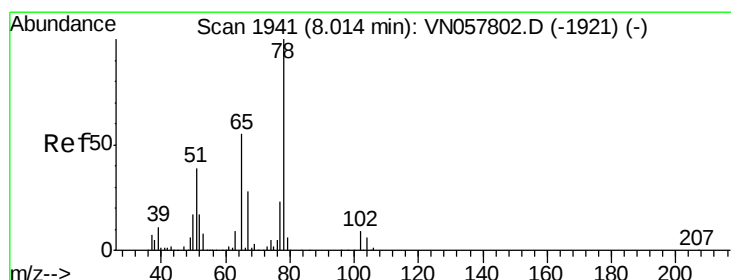
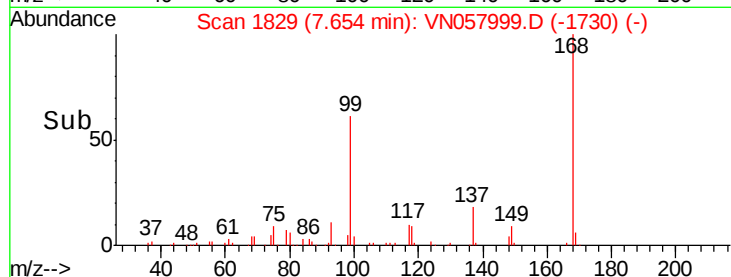
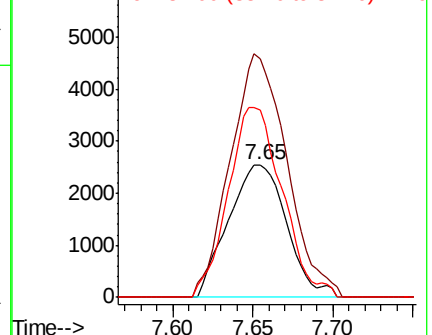
56 100

69 180.1 25.9 38.9#

84 141.5 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 61.140 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057999.D

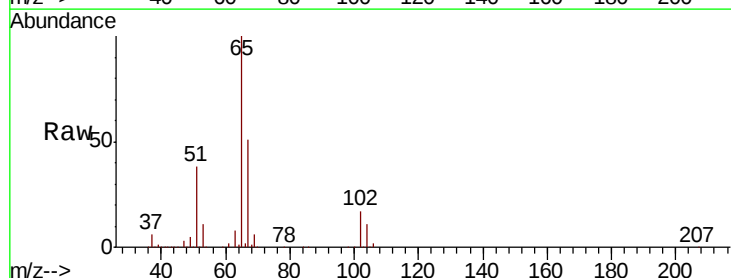
Acq: 13 Sep 2019 2:43

Tgt Ion: 65 Resp: 318319

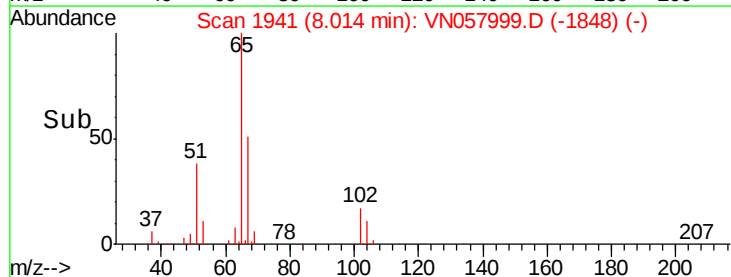
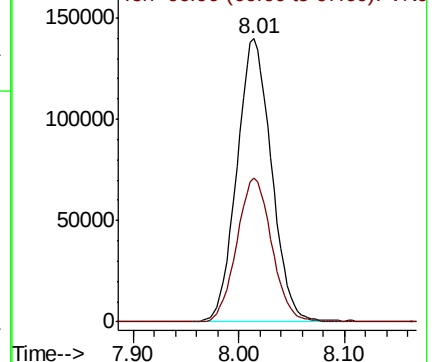
Ion Ratio Lower Upper

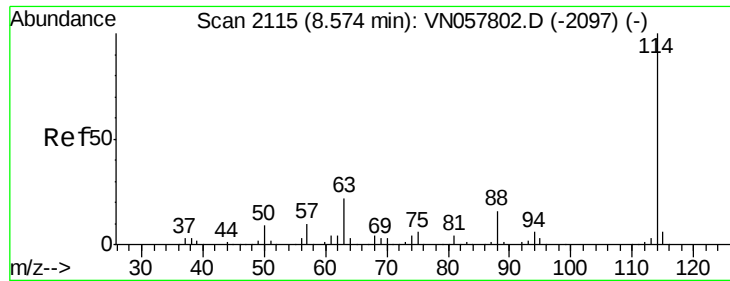
65 100

67 51.5 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VNC
Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2116

Delta R.T. 0.00 min

Lab File: VN057999.D

Acq: 13 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampleId :

T11-E1-(4)

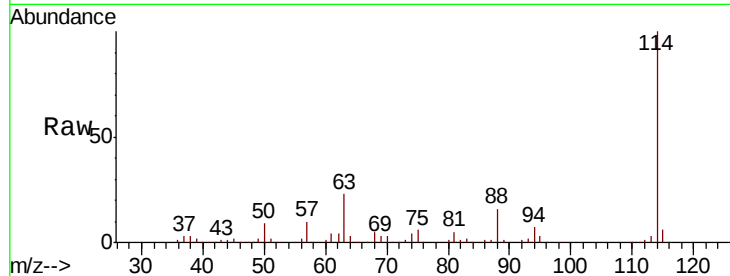
Tgt Ion:114 Resp: 457210

Ion Ratio Lower Upper

114 100

63 22.7 0.0 44.0

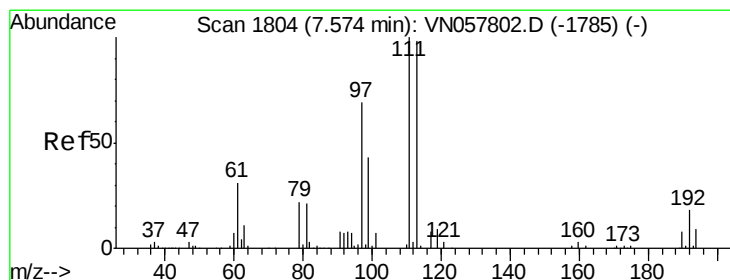
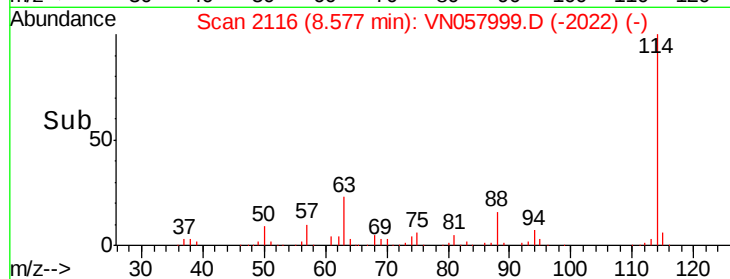
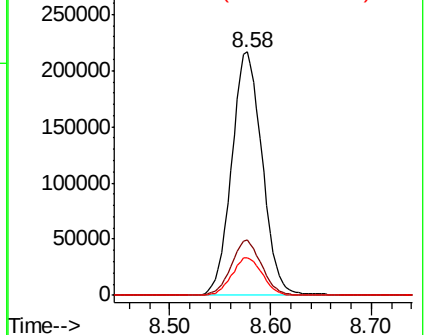
88 15.6 0.0 31.4



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: 51.432 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN057999.D

Acq: 13 Sep 2019 2:43

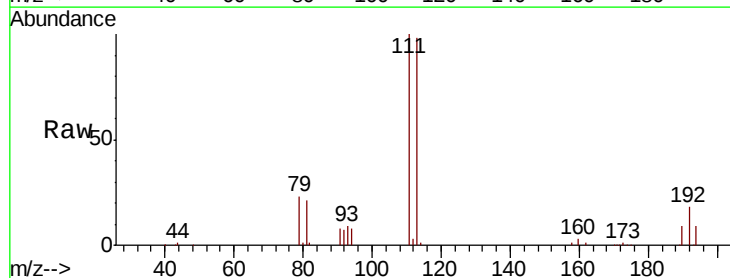
Tgt Ion:113 Resp: 217037

Ion Ratio Lower Upper

113 100

111 102.0 81.3 121.9

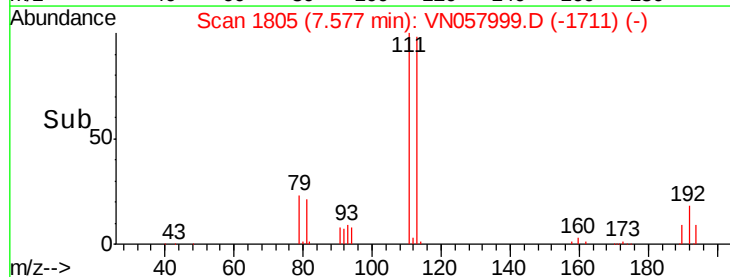
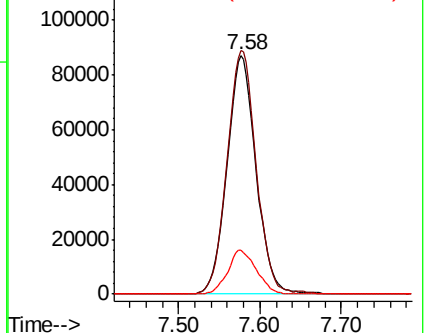
192 18.1 14.6 22.0

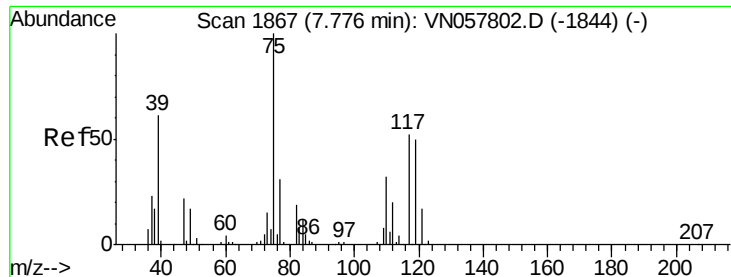


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

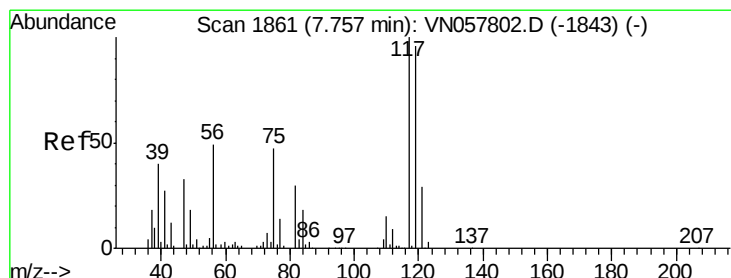
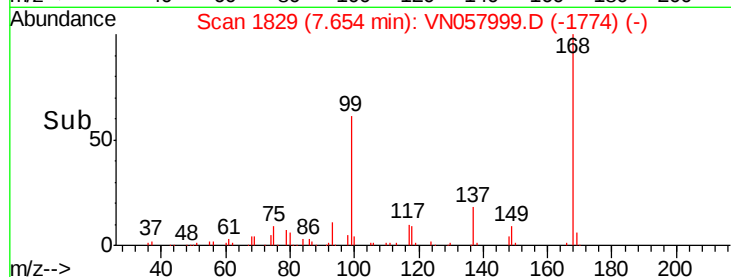
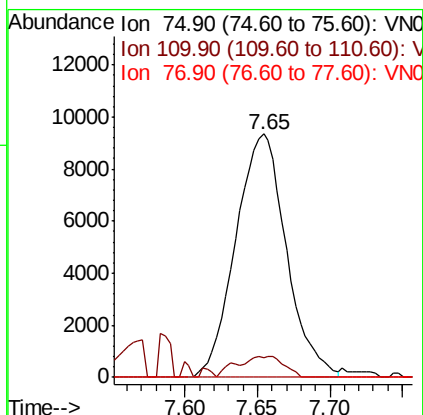
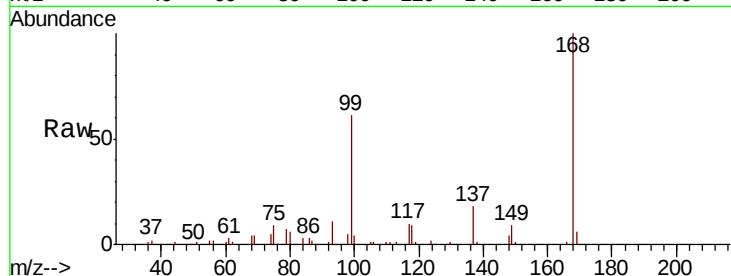




#36
 1,1-Dichloropropene
 Concen: 4.280 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057999.D
 Acq: 13 Sep 2019 2:43

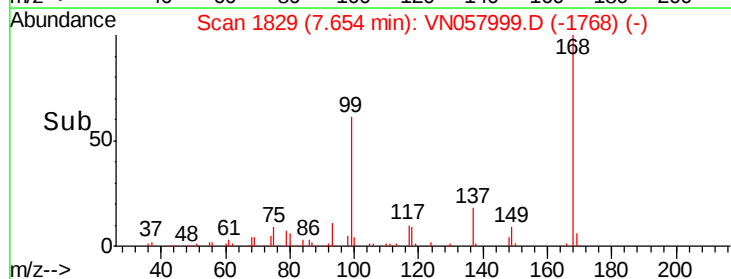
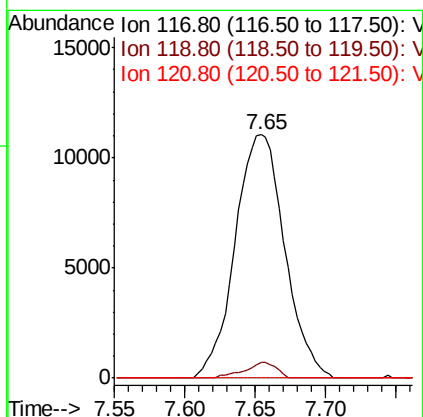
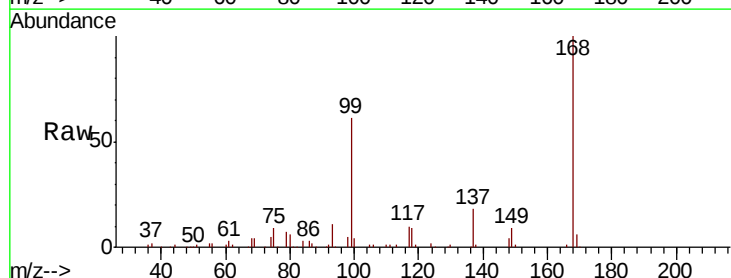
Instrument :
 MSVOA_N
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 T11-E1-(4)

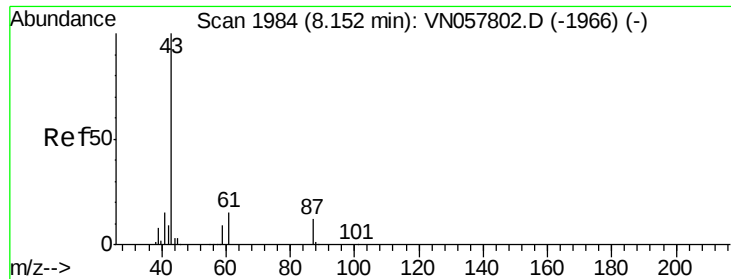
Tgt Ion: 75 Resp: 22693
 Ion Ratio Lower Upper
 75 100
 110 6.1 16.3 48.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.607 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN057999.D
 Acq: 13 Sep 2019 2:43

Tgt Ion: 117 Resp: 27143
 Ion Ratio Lower Upper
 117 100
 119 6.4 76.9 115.3#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 35.471 ug/l

RT: 8.31 min Scan# 2032

Delta R.T. 0.15 min

Lab File: VN057999.D

Acq: 13 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampleId :

T11-E1-(4)

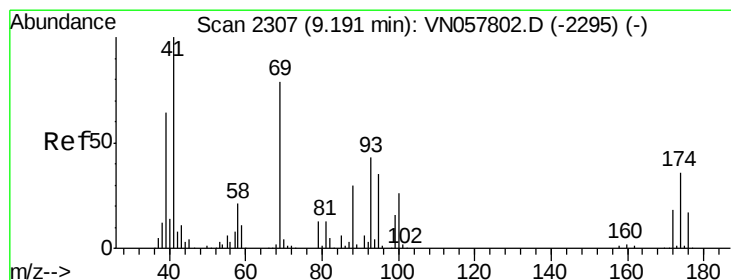
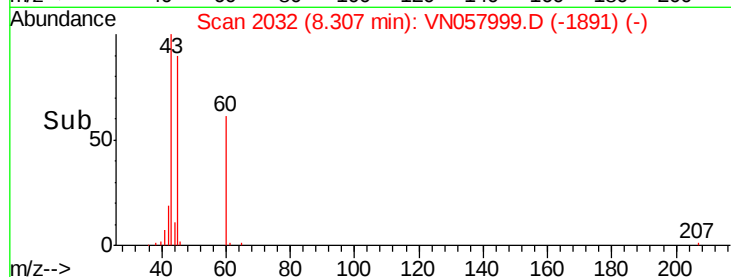
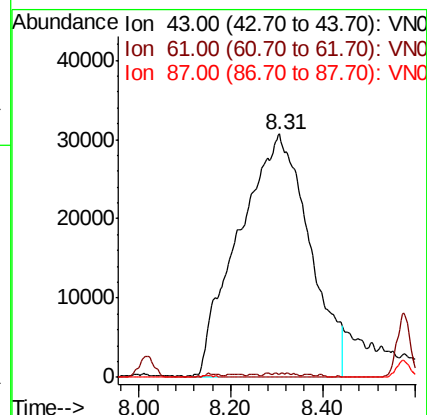
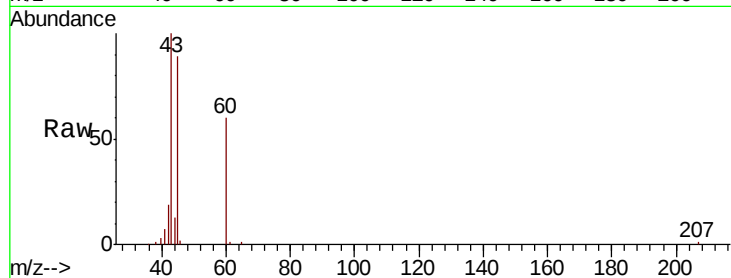
Tgt Ion: 43 Resp: 326792

Ion Ratio Lower Upper

43 100

61 0.0 20.1 30.1#

87 0.0 9.5 14.3#



#48

Methyl methacrylate

Concen: 0.973 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.01 min

Lab File: VN057999.D

Acq: 13 Sep 2019 2:43

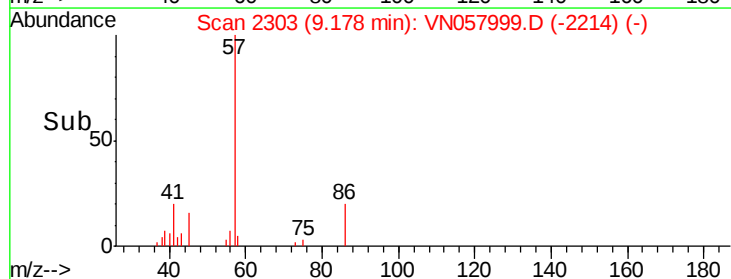
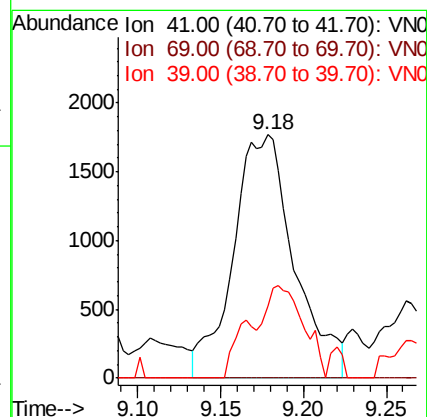
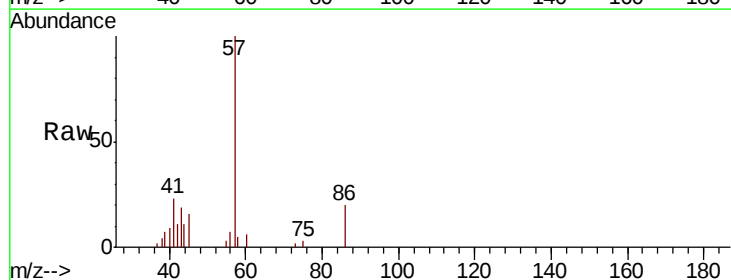
Tgt Ion: 41 Resp: 4546

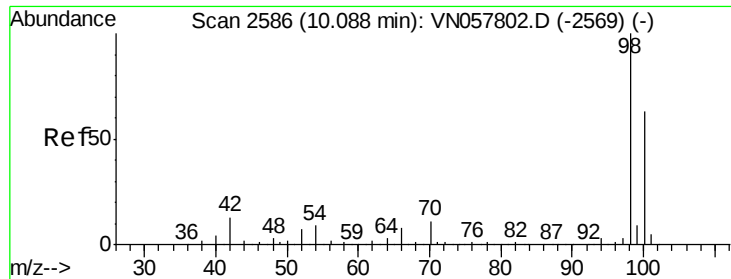
Ion Ratio Lower Upper

41 100

69 0.0 62.7 94.1#

39 24.0 52.7 79.1#





#50

Toluene-d8

Concen: 50.425 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057999.D

Acq: 13 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampled :

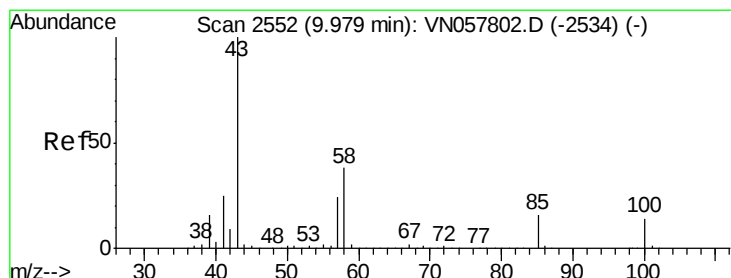
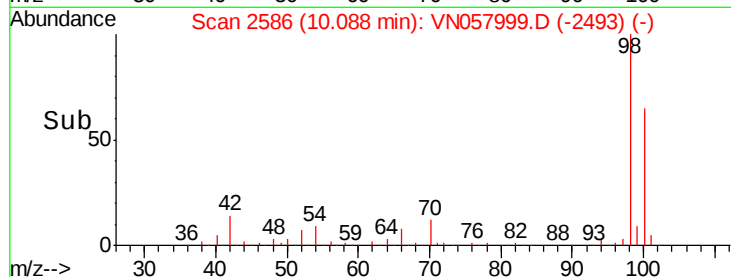
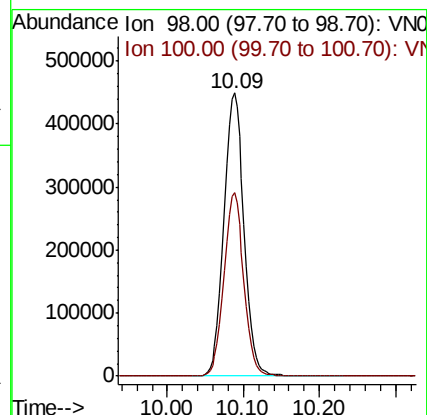
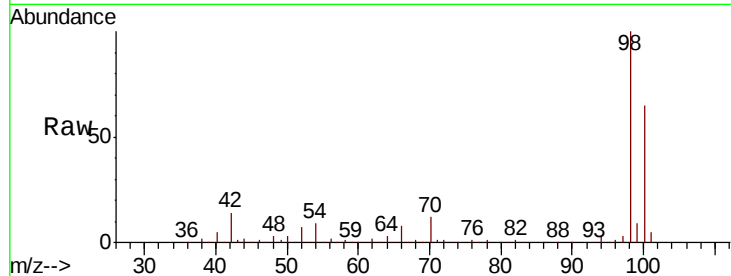
T11-E1-(4)

Tgt Ion: 98 Resp: 826159

Ion Ratio Lower Upper

98 100

100 63.6 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 1.070 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057999.D

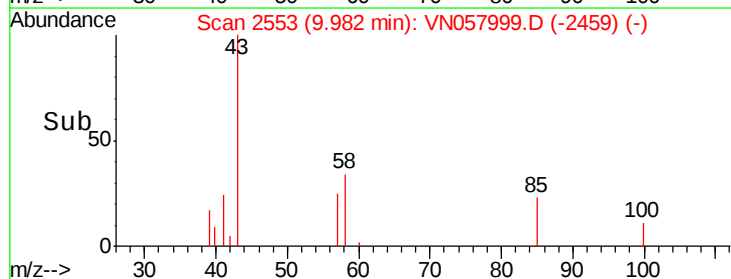
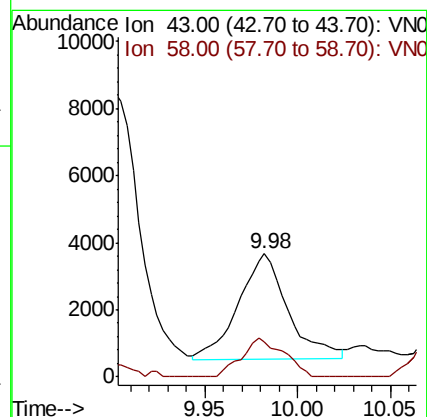
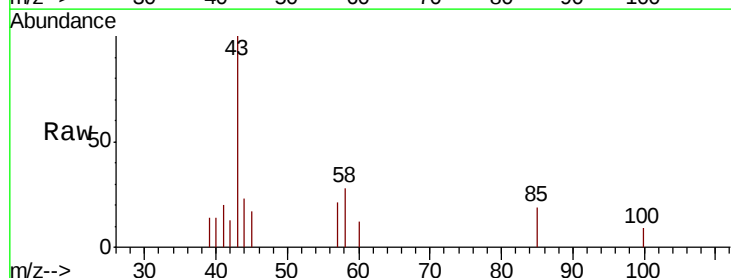
Acq: 13 Sep 2019 2:43

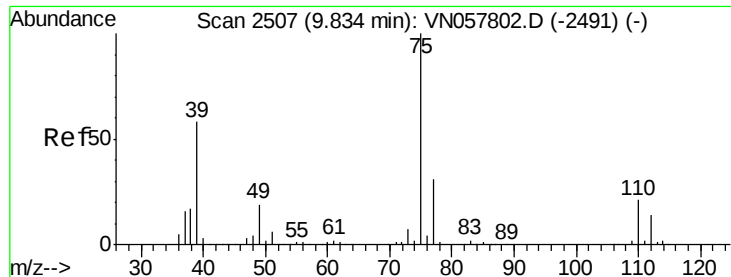
Tgt Ion: 43 Resp: 5831

Ion Ratio Lower Upper

43 100

58 31.3 29.8 44.6



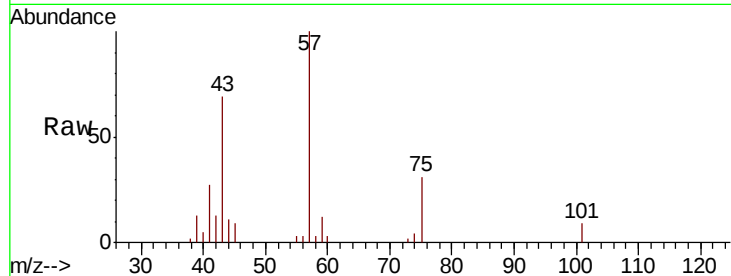


#54

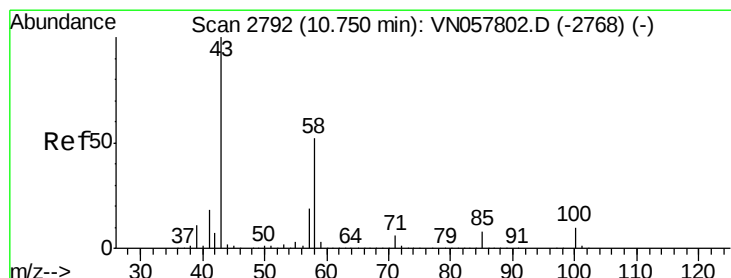
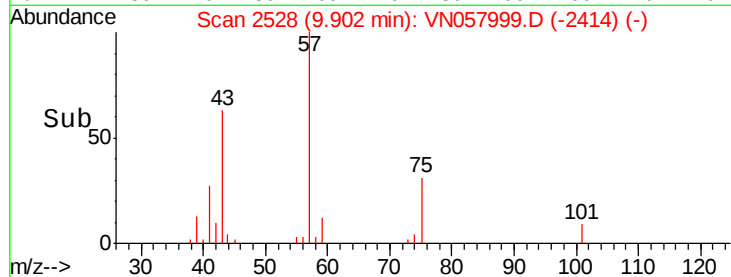
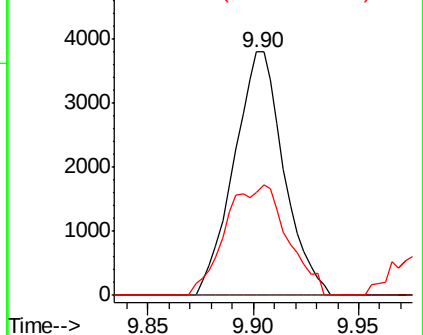
cis-1,3-Dichloropropene
 Concen: 0.956 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057999.D
 Acq: 13 Sep 2019 2:43

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E1-(4)

Tgt Ion: 75 Resp: 6228
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 42.2 46.2 69.4#



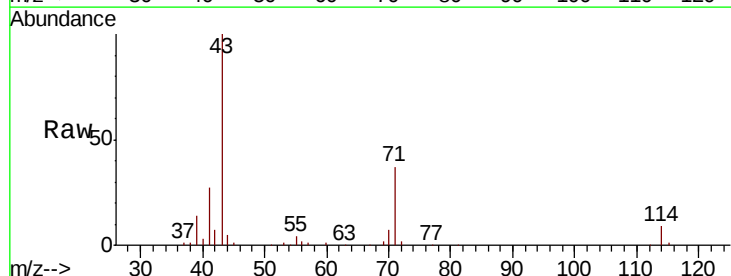
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



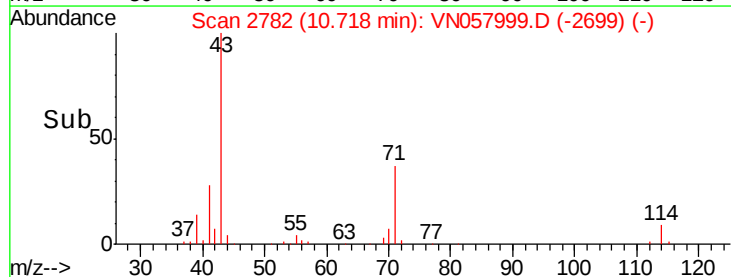
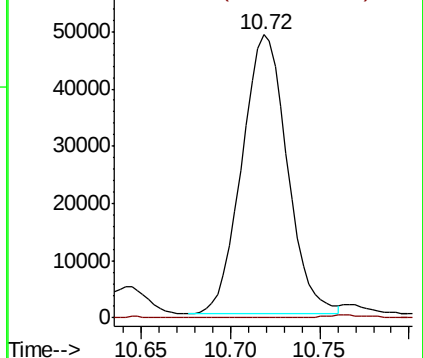
#59

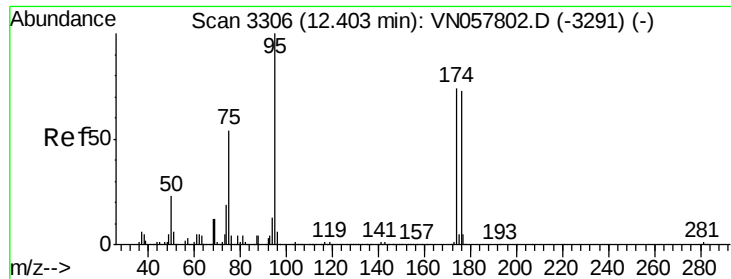
2-Hexanone
 Concen: 21.266 ug/l
 RT: 10.72 min Scan# 2782
 Delta R.T. -0.03 min
 Lab File: VN057999.D
 Acq: 13 Sep 2019 2:43

Tgt Ion: 43 Resp: 86900
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.6 76.8#



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

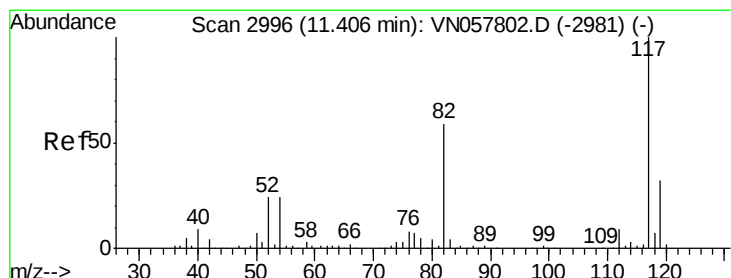
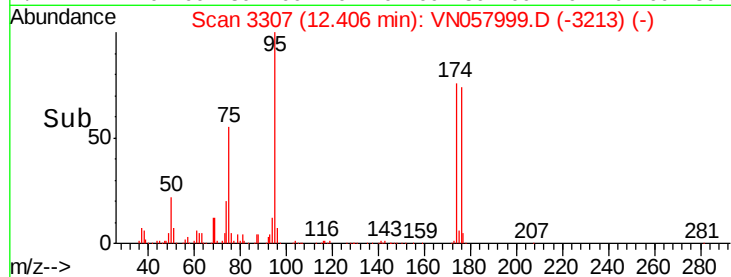
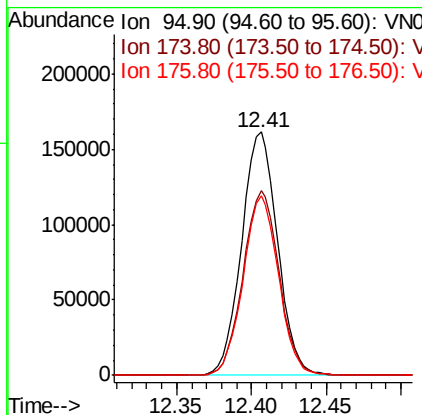
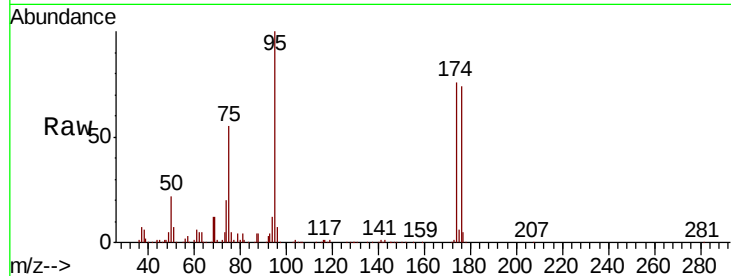




#62
4-Bromofluorobenzene
Concen: 43.290 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN057999.D
Acq: 13 Sep 2019 2:43

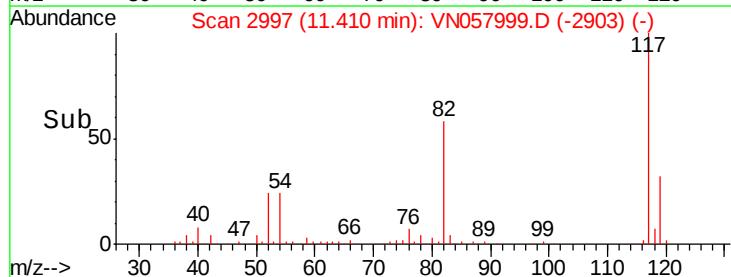
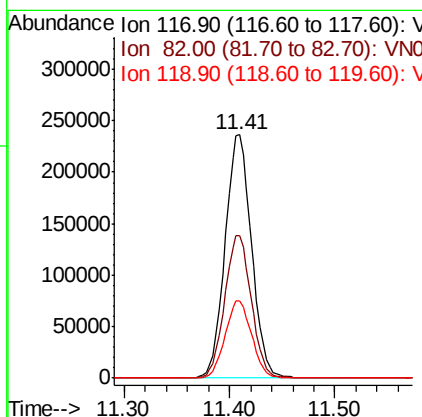
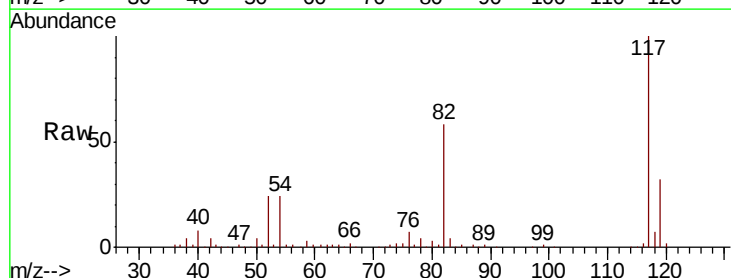
Instrument :
MSVOA_N
ClientSampleId :
T11-E1-(4)

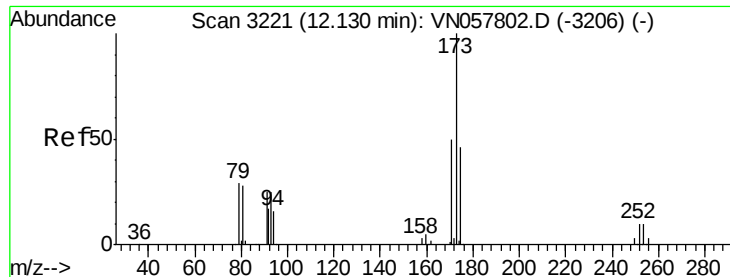
Tgt Ion: 95 Resp: 270288
Ion Ratio Lower Upper
95 100
174 76.5 0.0 150.2
176 72.8 0.0 146.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN057999.D
Acq: 13 Sep 2019 2:43

Tgt Ion: 117 Resp: 409205
Ion Ratio Lower Upper
117 100
82 58.3 47.2 70.8
119 31.9 25.3 37.9





#71

Bromoform

Concen: 0.545 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN057999.D

Acq: 13 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampleId :

T11-E1-(4)

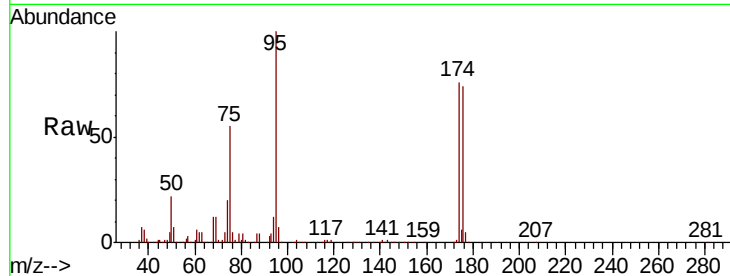
Tgt Ion:173 Resp: 1263

Ion Ratio Lower Upper

173 100

175 1042.3 23.5 70.6#

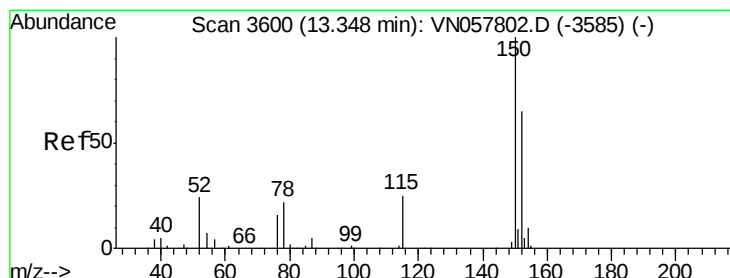
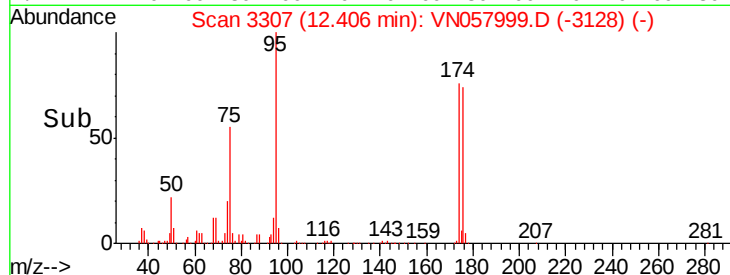
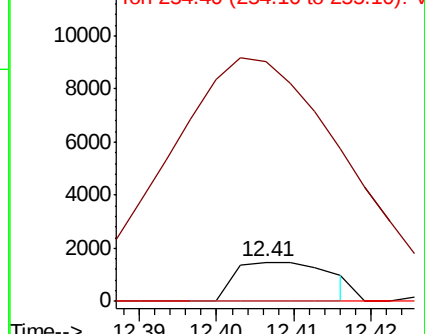
254 0.0 0.1 0.1#



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# 3600

Delta R.T. 0.00 min

Lab File: VN057999.D

Acq: 13 Sep 2019 2:43

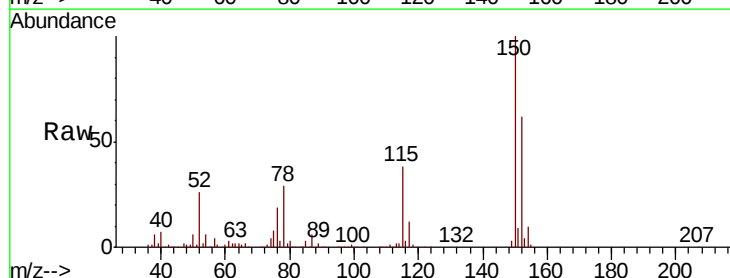
Tgt Ion:152 Resp: 211206

Ion Ratio Lower Upper

152 100

115 61.0 30.3 91.0

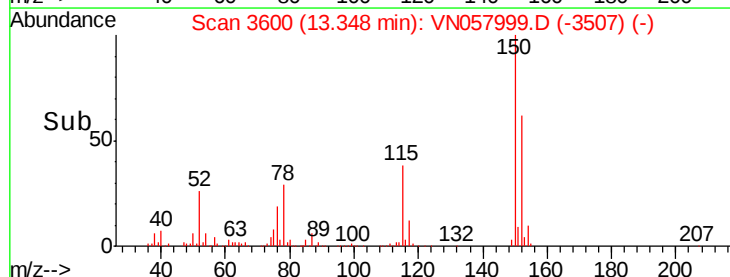
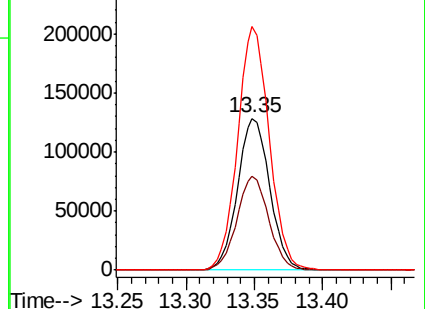
150 156.8 0.0 352.4

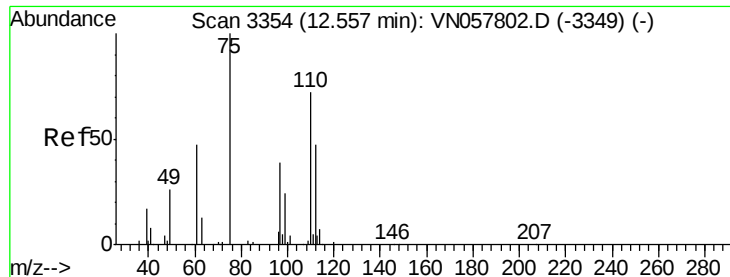


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 31.526 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN057999.D

Acq: 13 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampleId :

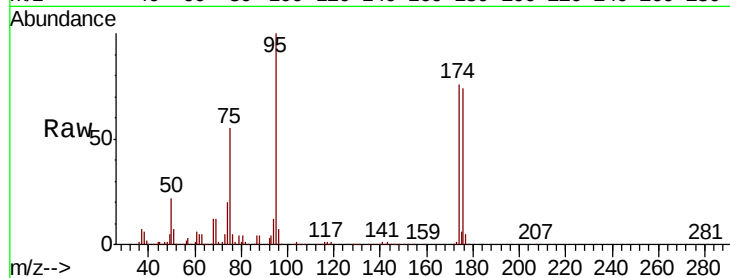
T11-E1-(4)

Tgt Ion: 75 Resp: 150628

Ion Ratio Lower Upper

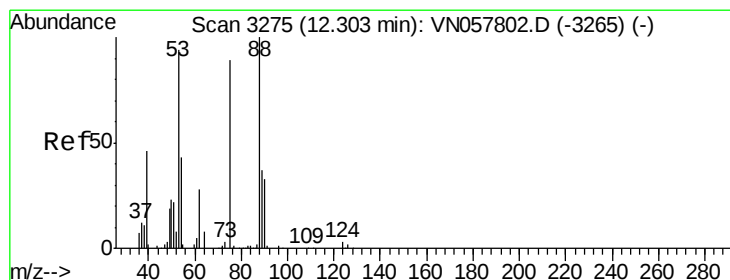
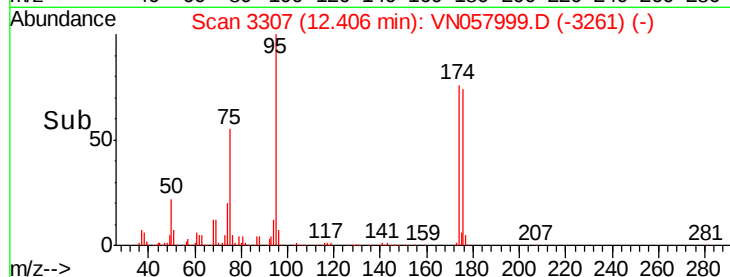
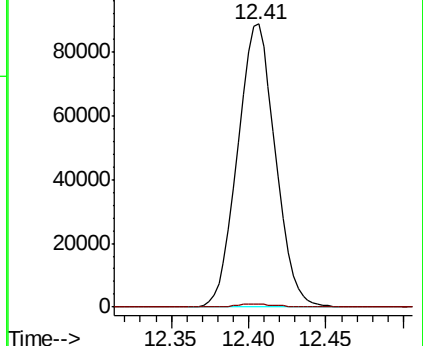
75 100

77 1.2 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: 110.942 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN057999.D

Acq: 13 Sep 2019 2:43

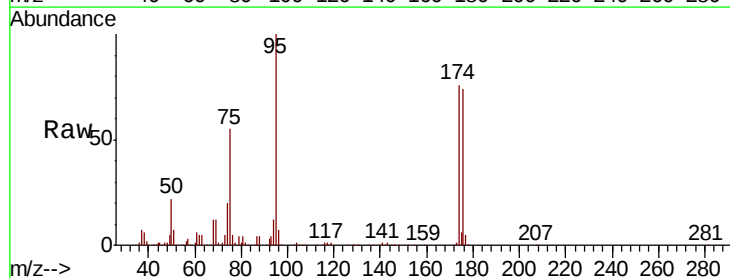
Tgt Ion: 75 Resp: 150628

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

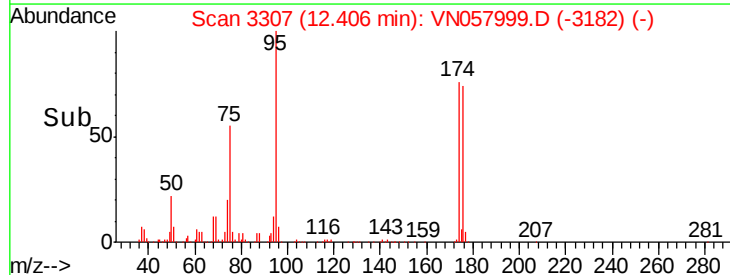
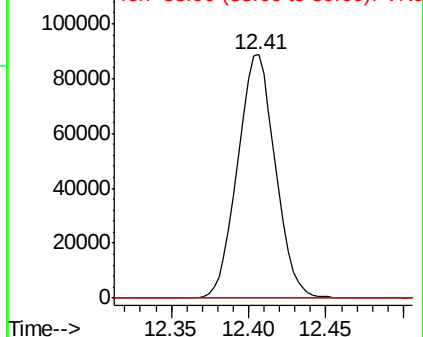
89 0.0 35.3 52.9#

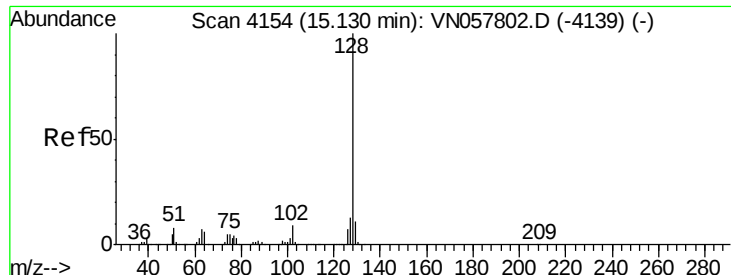


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN057999.D

Acq: 13 Sep 2019 2:43

Instrument :

MSVOA_N

ClientSampleId :

T11-E1-(4)

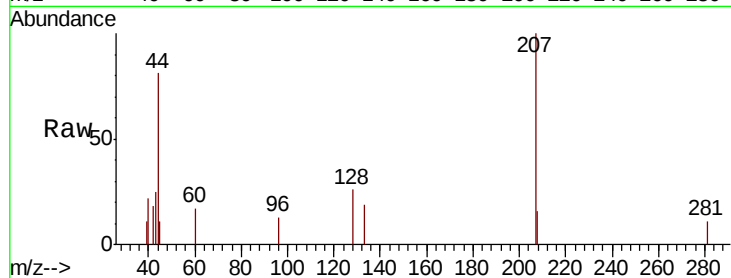
Tgt Ion:128 Resp: 422

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 12.8#



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

500

400

300

200

100

0

15.12

15.13

15.14

15.15

15.16

Time-->

