

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057914.D
 Acq On : 11 Sep 2019 11:01
 Operator : JC/SP
 Sample : K4643-33
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 57 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-C3-(0)

Quant Time: Sep 12 01:31:48 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	304311	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	507177	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	474354	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	242796	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	338427	54.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.82%	
35) Dibromofluoromethane	7.58	113	227023	48.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.00%	
50) Toluene-d8	10.09	98	922878	50.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.56%	
62) 4-Bromofluorobenzene	12.40	95	304098	43.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.82%	

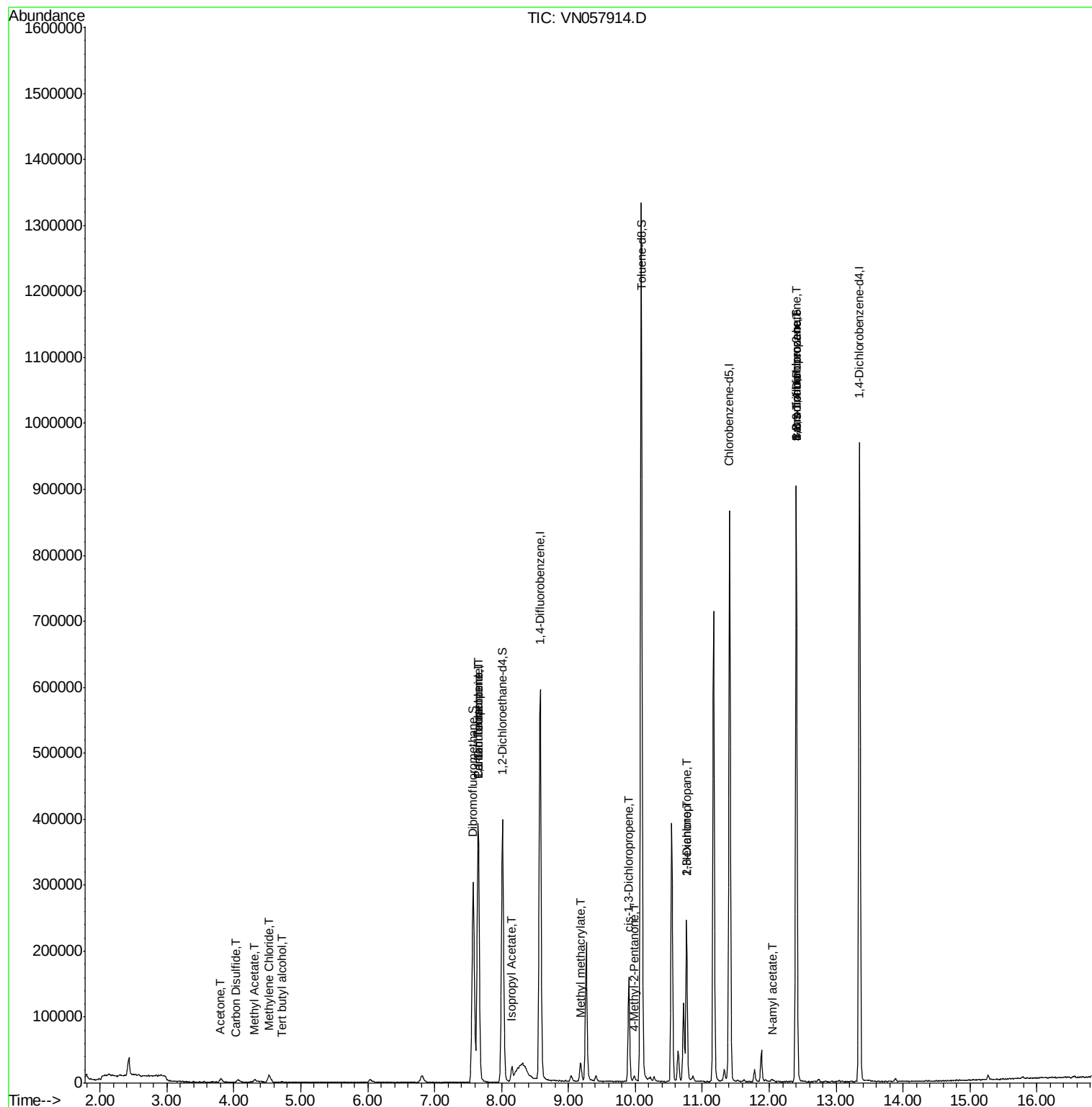
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	61	Below Cal		99
11) Tert butyl alcohol	4.72	59	640	0.858	ug/l #	72
16) Acetone	3.80	43	9678	4.790	ug/l	95
17) Carbon Disulfide	4.02	76	259	0.210	ug/l #	75
18) Methyl Acetate	4.31	43	5046	0.937	ug/l #	84
20) Methylene Chloride	4.53	84	7212	0.660	ug/l	89
31) Cyclohexane	7.65	56	7670	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	26248	4.462	ug/l #	51
38) Carbon Tetrachloride	7.65	117	31153	5.801	ug/l #	15
43) Isopropyl Acetate	8.16	43	29629	2.899	ug/l #	92
48) Methyl methacrylate	9.18	41	3681	0.710	ug/l #	39
51) 4-Methyl-2-Pentanone	9.98	43	5026	0.831	ug/l	93
54) cis-1,3-Dichloropropene	9.90	75	26864	3.716	ug/l #	67
57) 1,3-Dichloropropane	10.76	76	2501	0.307	ug/l #	43
59) 2-Hexanone	10.76	43	36089	7.961	ug/l #	56
71) Bromoform	12.40	173	675	0.251	ug/l #	1
74) N-amyl acetate	12.04	43	2948	0.360	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	169539	30.868	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	169539	108.624	ug/l #	6
95) Naphthalene	15.14	128	1154	Below Cal	#	69

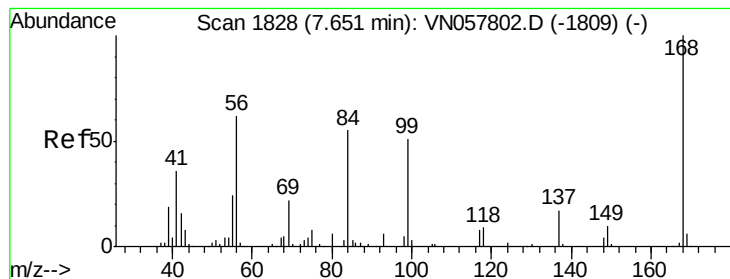
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057914.D

Acq: 11 Sep 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

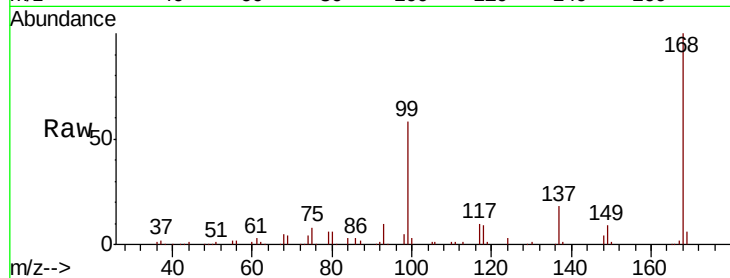
T11-C3-(0)

Tgt Ion:168 Resp: 304311

Ion Ratio Lower Upper

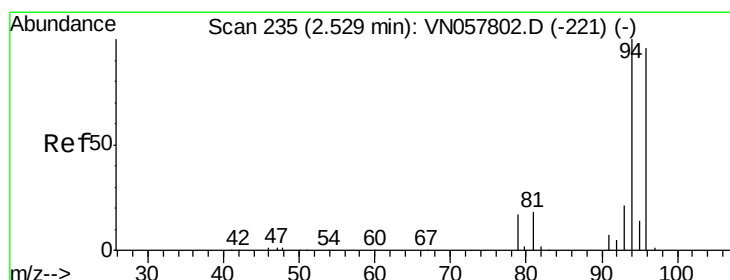
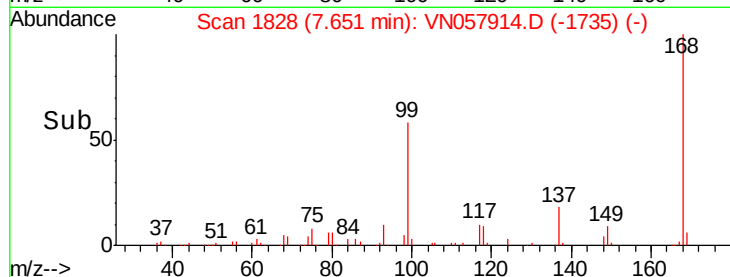
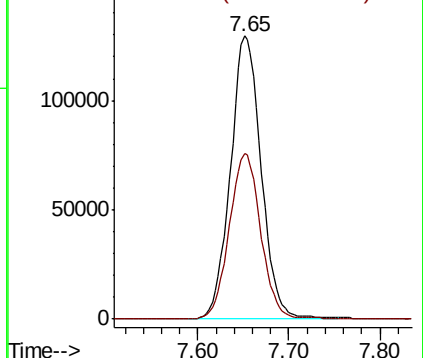
168 100

99 58.5 48.0 72.0



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: 2.55 min Scan# 240

Delta R.T. 0.02 min

Lab File: VN057914.D

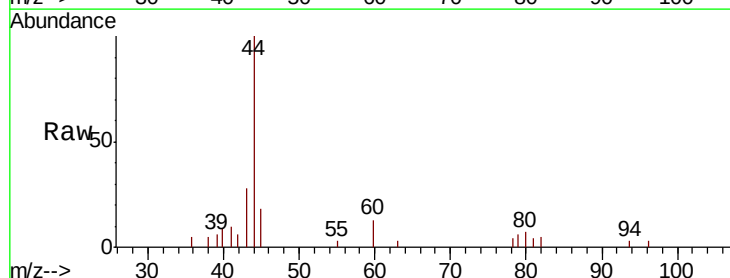
Acq: 11 Sep 2019 11:01

Tgt Ion: 94 Resp: 61

Ion Ratio Lower Upper

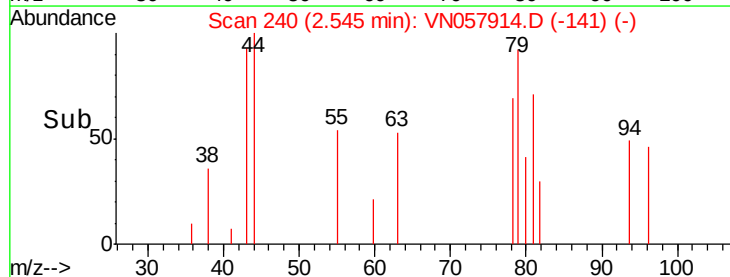
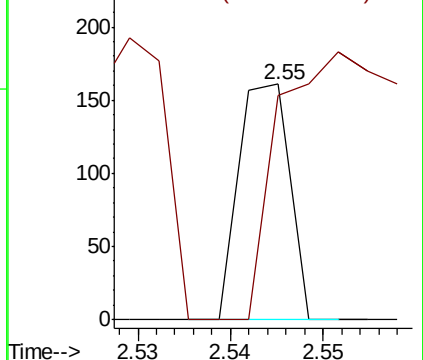
94 100

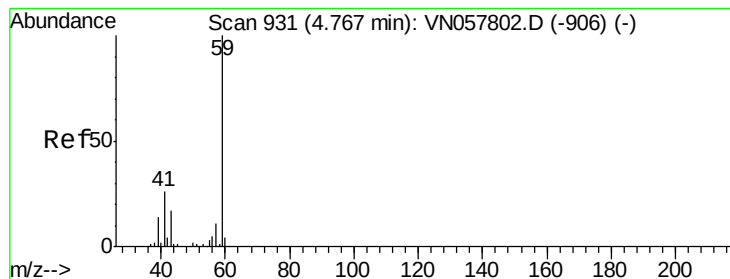
96 95.0 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#11

Tert butyl alcohol

Concen: 0.858 ug/l

RT: 4.72 min Scan# 915

Delta R.T. -0.05 min

Lab File: VN057914.D

Acq: 11 Sep 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

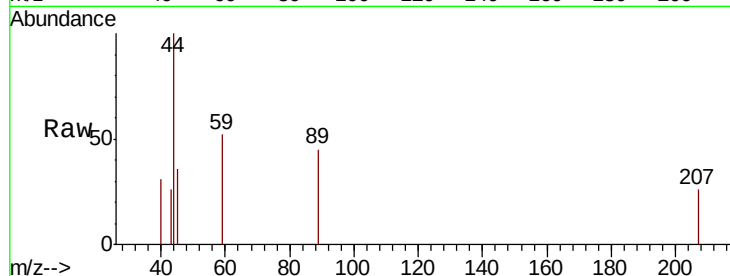
T11-C3-(0)

Tgt Ion: 59 Resp: 640

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.72

300

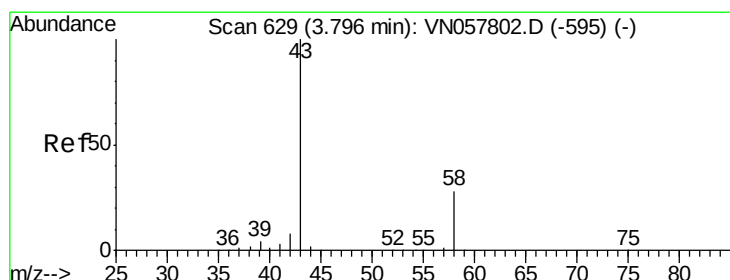
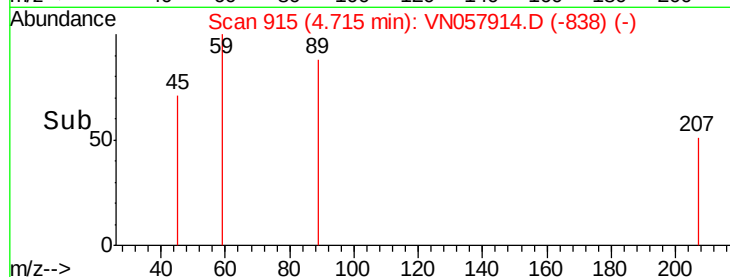
200

100

0

4.68 4.70 4.72 4.74 4.76

Time-->



#16

Acetone

Concen: 4.790 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057914.D

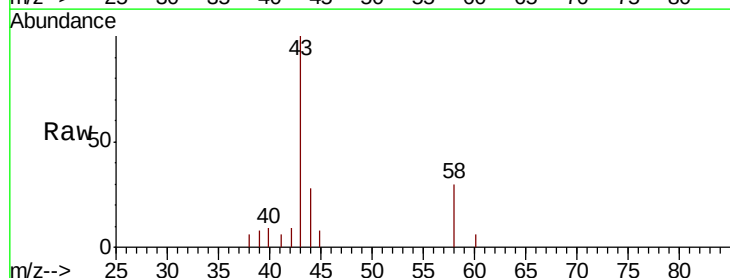
Acq: 11 Sep 2019 11:01

Tgt Ion: 43 Resp: 9678

Ion Ratio Lower Upper

43 100

58 30.4 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.80

3000

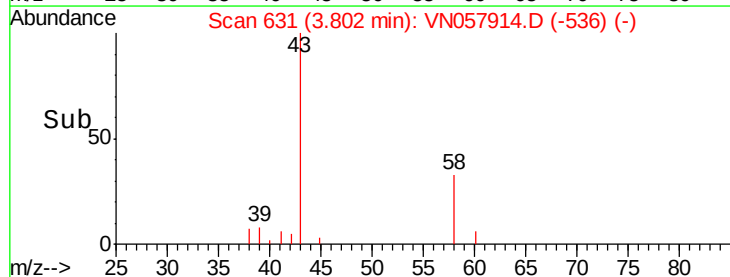
2000

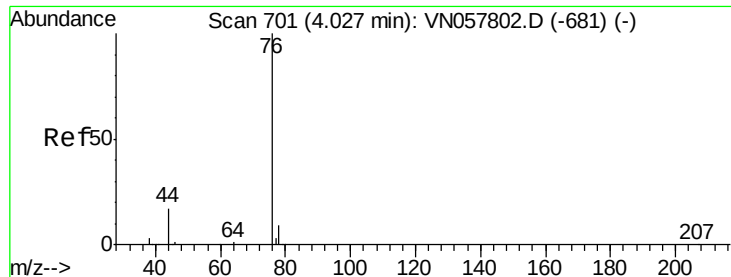
1000

0

3.70 3.75 3.80 3.85 3.90

Time-->





#17

Carbon Disulfide

Concen: 0.210 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.00 min

Lab File: VN057914.D

Acq: 11 Sep 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

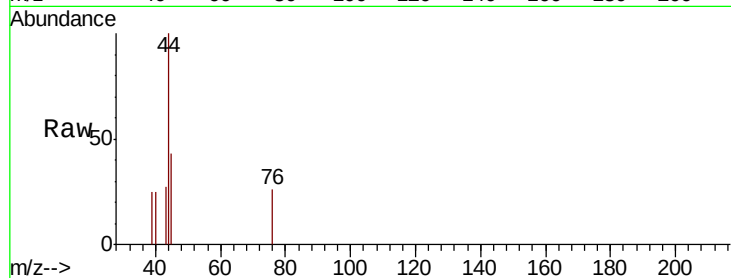
T11-C3-(0)

Tgt Ion: 76 Resp: 259

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.02

250

200

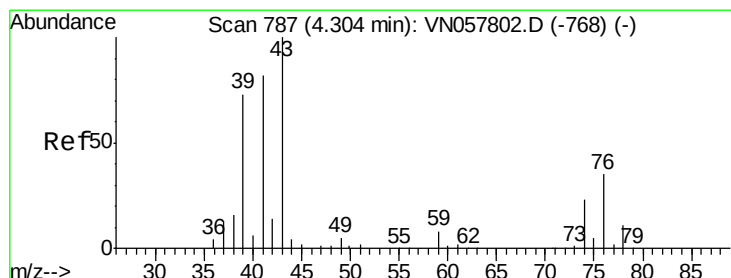
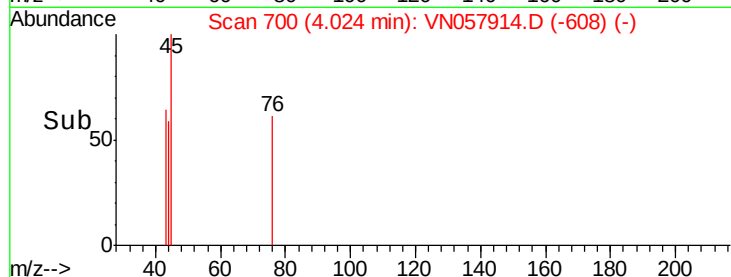
150

100

50

0

Time-->



#18

Methyl Acetate

Concen: 0.937 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN057914.D

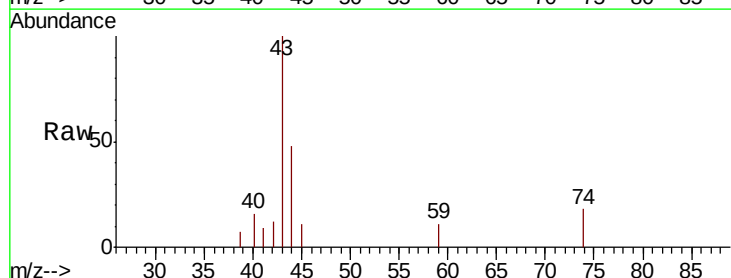
Acq: 11 Sep 2019 11:01

Tgt Ion: 43 Resp: 5046

Ion Ratio Lower Upper

43 100

74 14.6 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.31

2500

2000

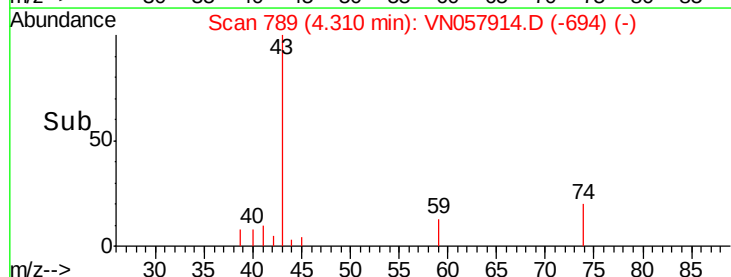
1500

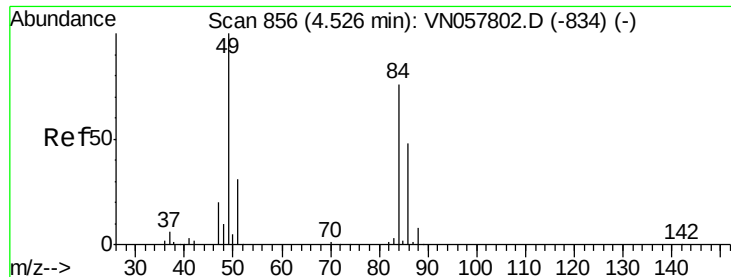
1000

500

0

Time-->

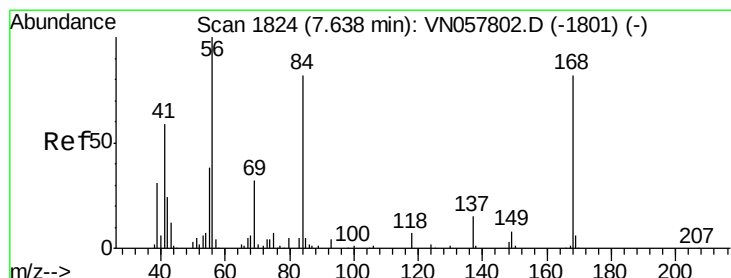
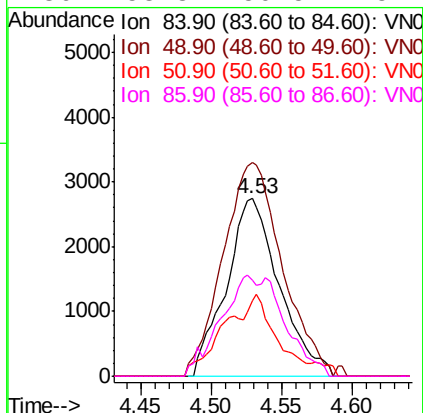
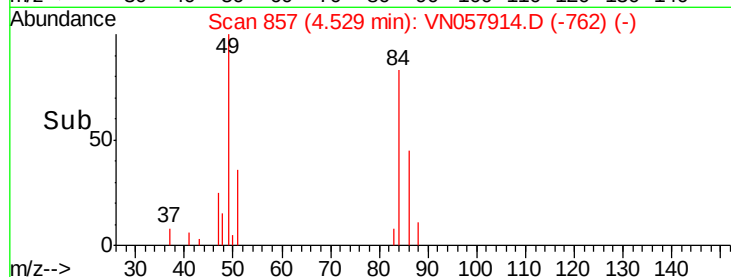
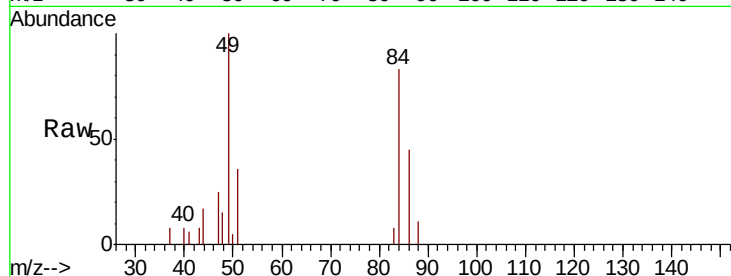




#20
Methylene Chloride
Concen: 0.660 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057914.D
Acq: 11 Sep 2019 11:01

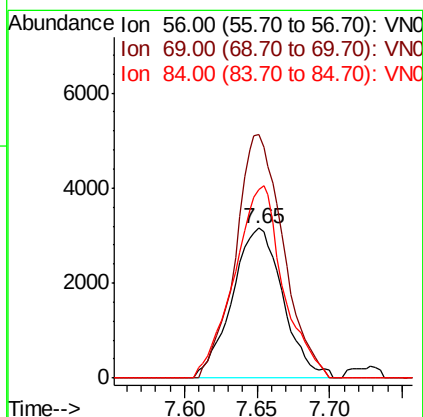
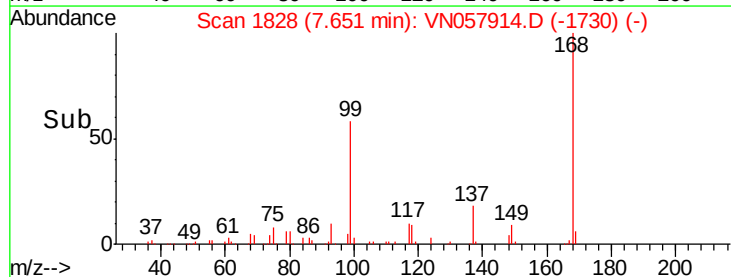
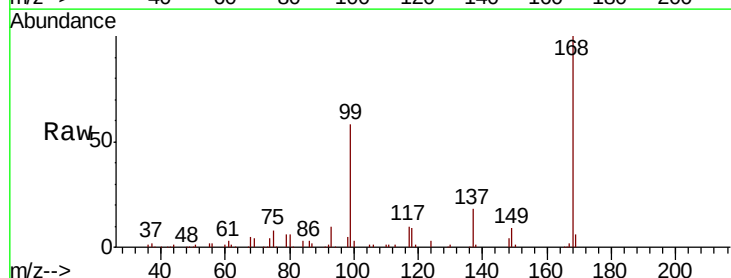
Instrument :
MSVOA_N
ClientSampleId :
T11-C3-(0)

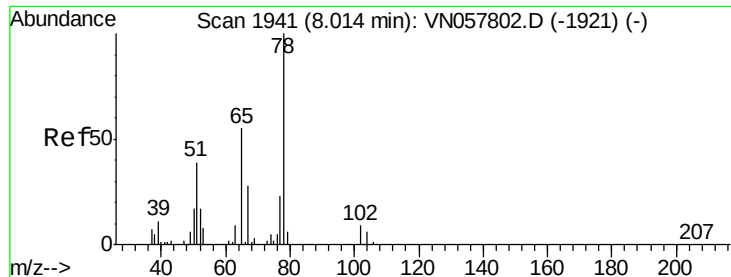
Tgt Ion:	84	Resp:	7212
Ion	Ratio	Lower	Upper
84	100		
49	114.6	104.8	157.2
51	42.7	33.0	49.4
86	53.8	50.5	75.7



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057914.D
Acq: 11 Sep 2019 11:01

Tgt Ion:	56	Resp:	7670
Ion	Ratio	Lower	Upper
56	100		
69	162.8	25.9	38.9#
84	126.0	65.6	98.4#

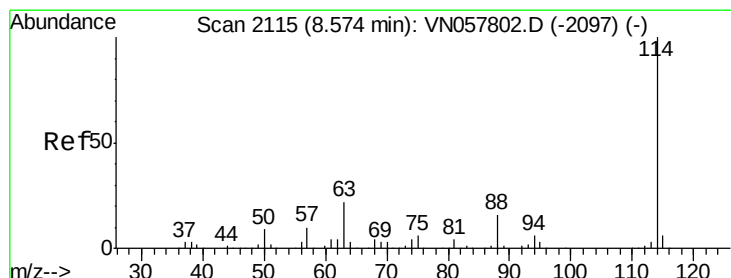
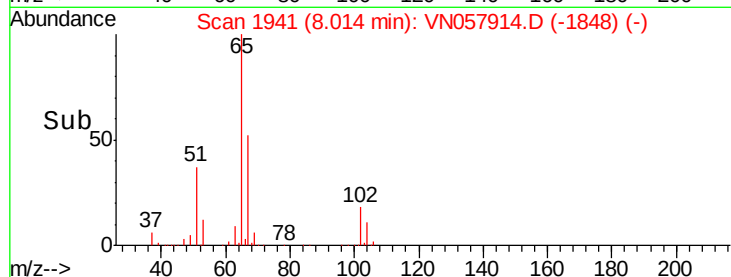
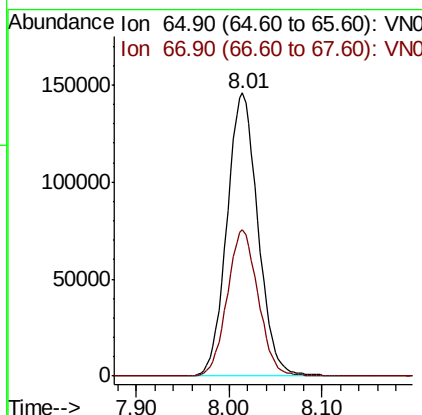
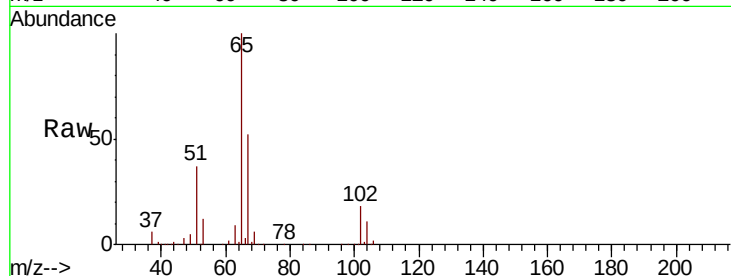




#33
 1,2-Dichloroethane-d4
 Concen: 54.908 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057914.D
 Acq: 11 Sep 2019 11:01

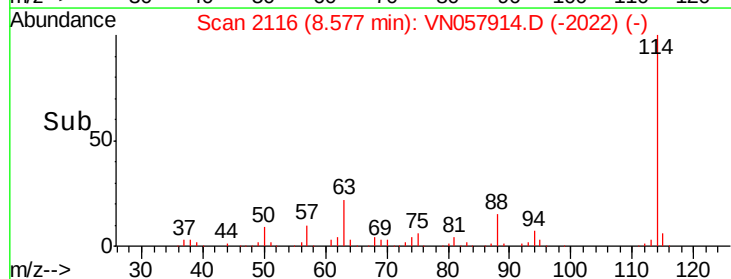
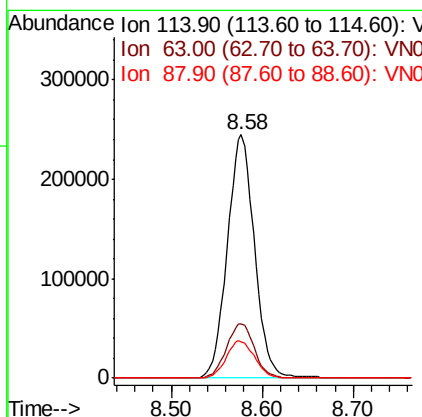
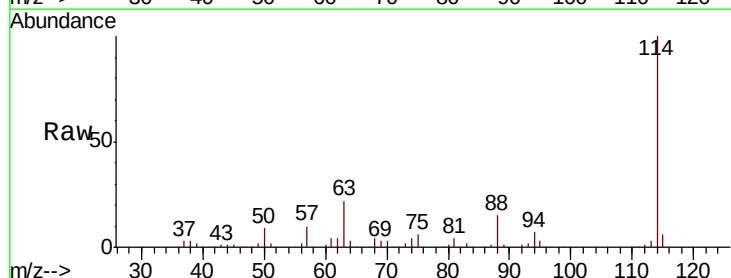
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 MSVOA_N
 ClientSampleId :
 T11-C3-(0)

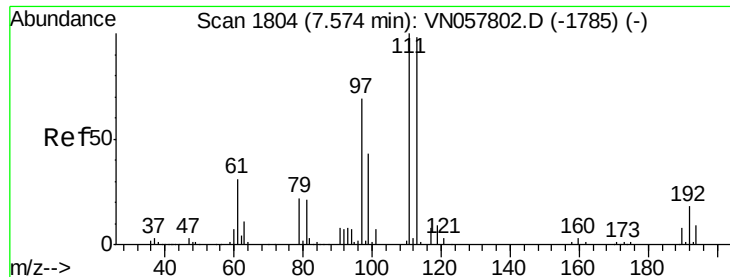
Tgt Ion: 65 Resp: 338427
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057914.D
 Acq: 11 Sep 2019 11:01

Tgt Ion: 114 Resp: 507177
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 44.0
 88 15.1 0.0 31.4

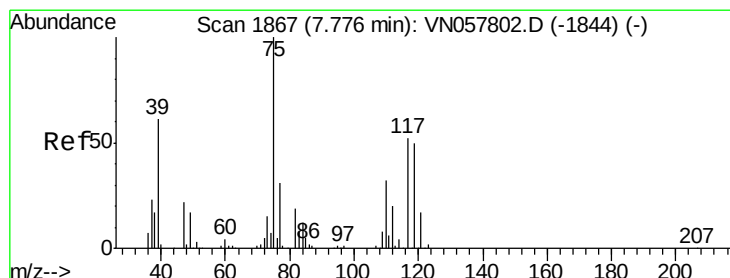
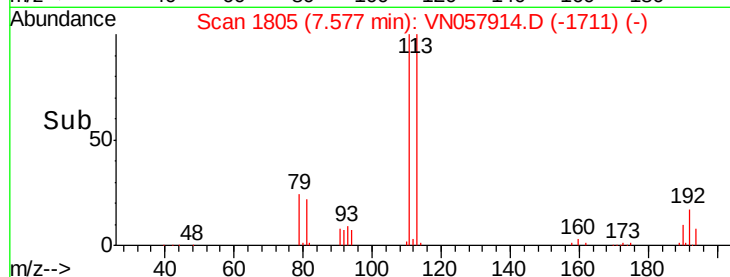
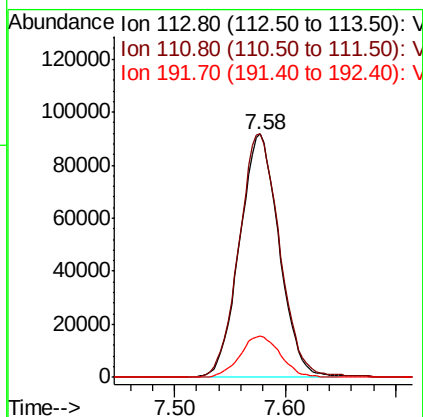
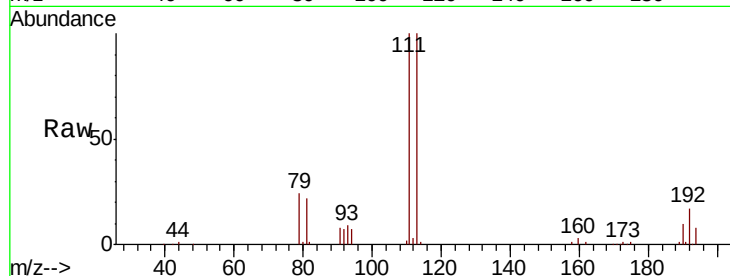




#35
 Dibromofluoromethane
 Concen: 48.498 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057914.D
 Acq: 11 Sep 2019 11:01

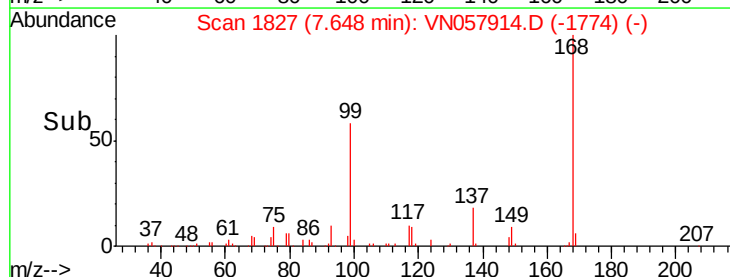
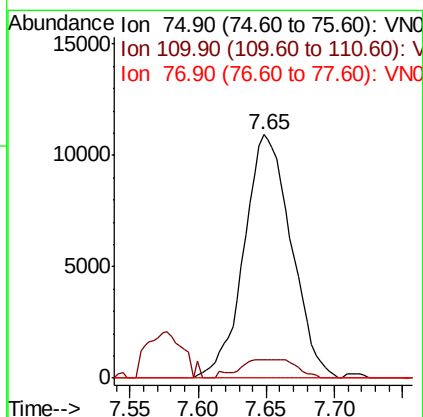
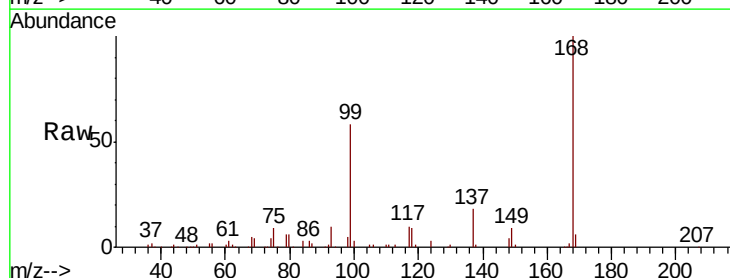
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 T11-C3-(0)

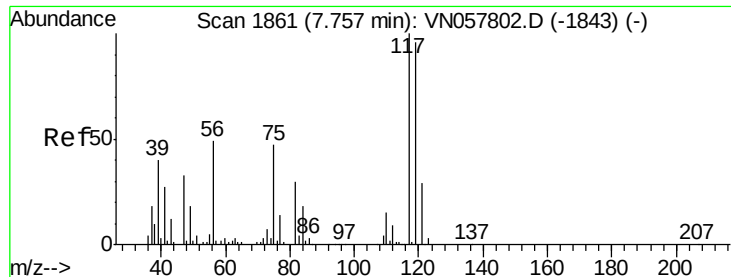
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.3	121.9
192	17.4	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.462 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN057914.D
 Acq: 11 Sep 2019 11:01

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	16.3	48.9#
77	0.0	25.0	37.4#

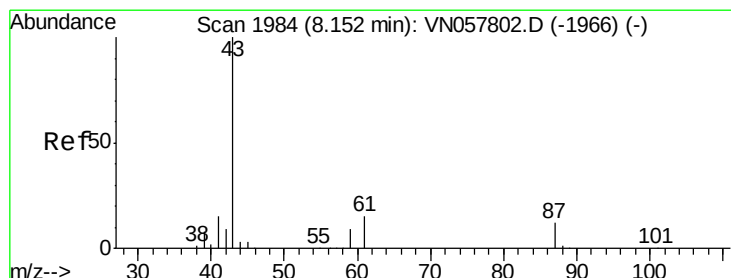
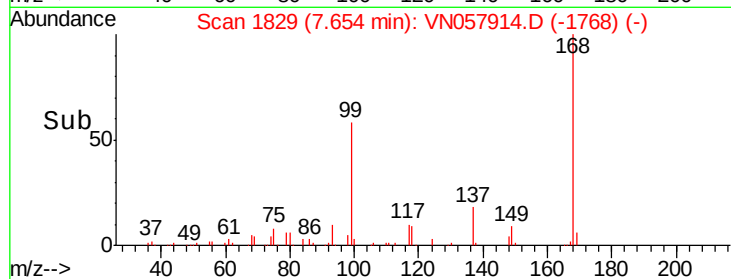
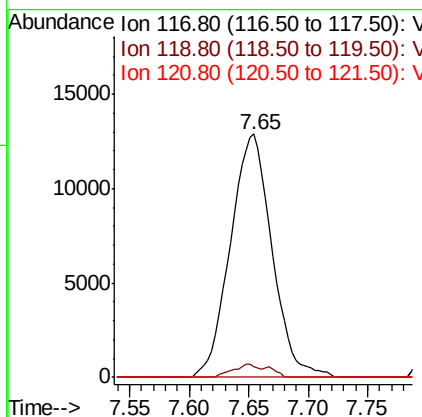
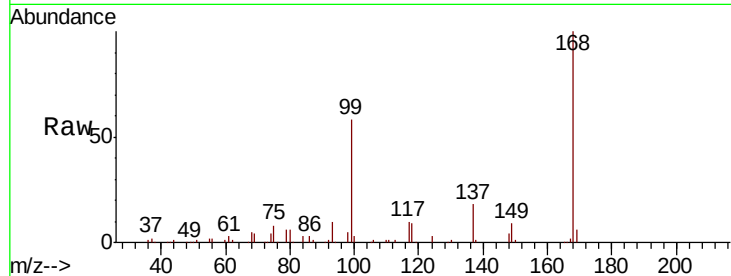




#38
Carbon Tetrachloride
Concen: 5.801 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.10 min
Lab File: VN057914.D
Acq: 11 Sep 2019 11:01

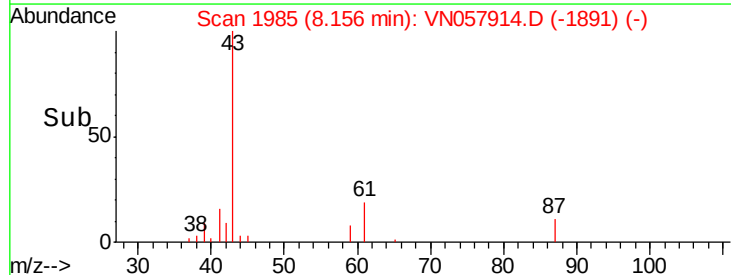
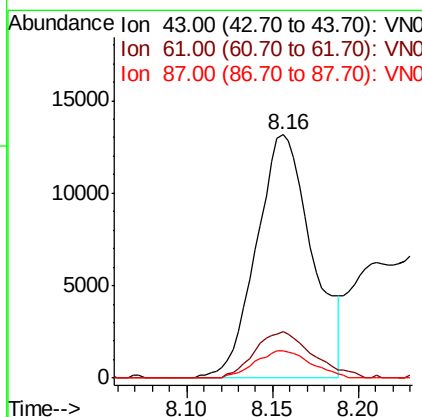
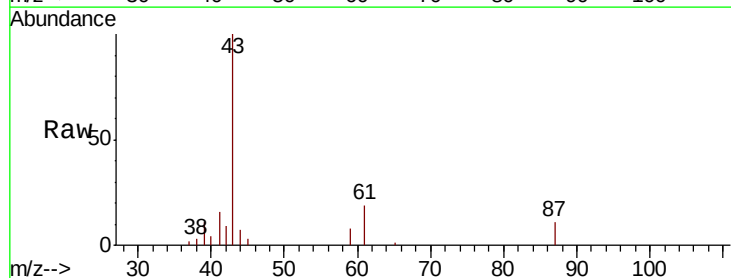
Instrument :
MSVOA_N
ClientSampled :
T11-C3-(0)

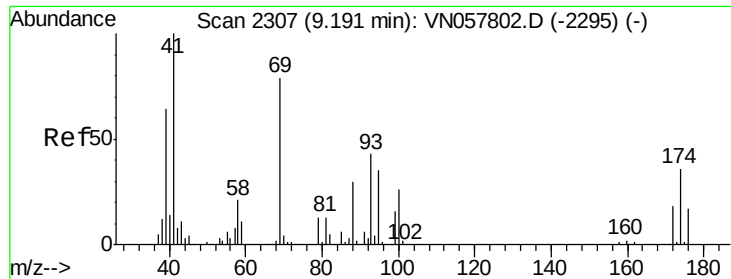
Tgt Ion:117 Resp: 31153
Ion Ratio Lower Upper
117 100
119 4.5 76.9 115.3#
121 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 2.899 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.00 min
Lab File: VN057914.D
Acq: 11 Sep 2019 11:01

Tgt Ion: 43 Resp: 29629
Ion Ratio Lower Upper
43 100
61 19.7 20.1 30.1#
87 11.3 9.5 14.3

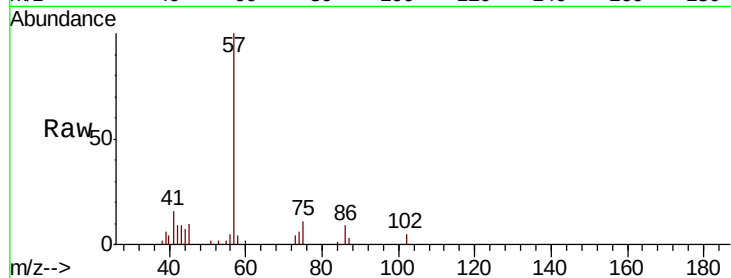




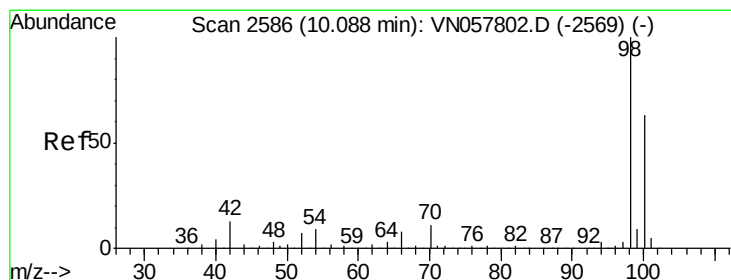
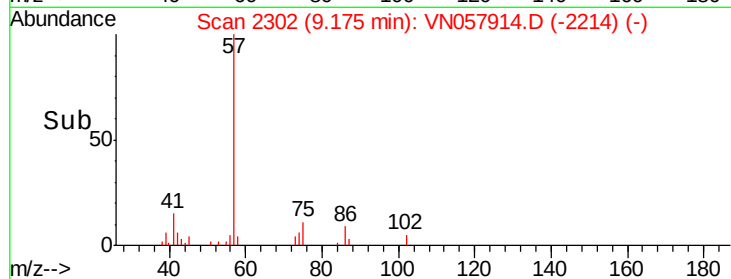
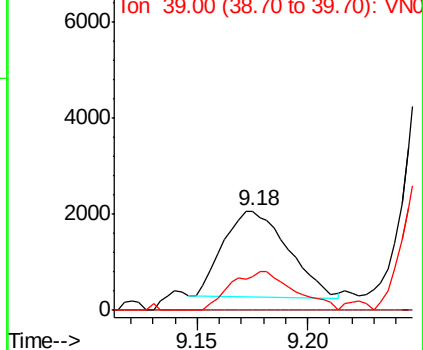
#48
Methyl methacrylate
Concen: 0.710 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057914.D
Acq: 11 Sep 2019 11:01

Instrument :
MSVOA_N
ClientSampleId :
T11-C3-(0)

Tgt Ion: 41 Resp: 3681
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 44.0 52.7 79.1#

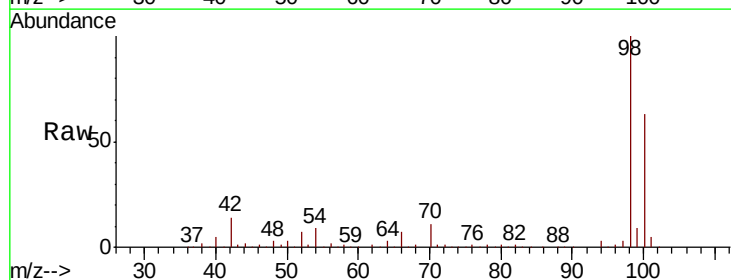


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

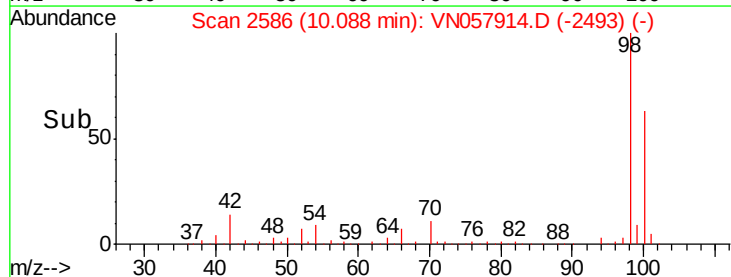
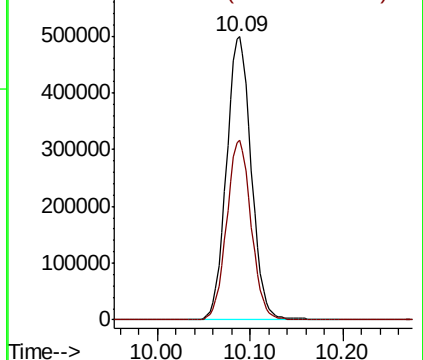


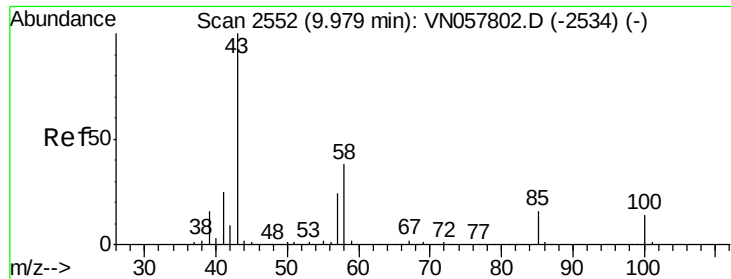
#50
Toluene-d8
Concen: 50.779 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057914.D
Acq: 11 Sep 2019 11:01

Tgt Ion: 98 Resp: 922878
Ion Ratio Lower Upper
98 100
100 62.8 50.3 75.5



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: 0.831 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057914.D

Acq: 11 Sep 2019 11:01

Instrument :

MSVOA_N

ClientSampled :

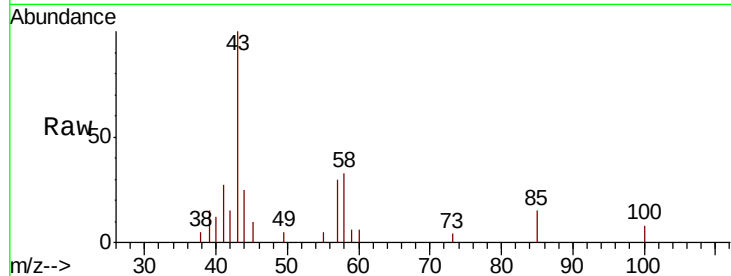
T11-C3-(0)

Tgt Ion: 43 Resp: 5026

Ion Ratio Lower Upper

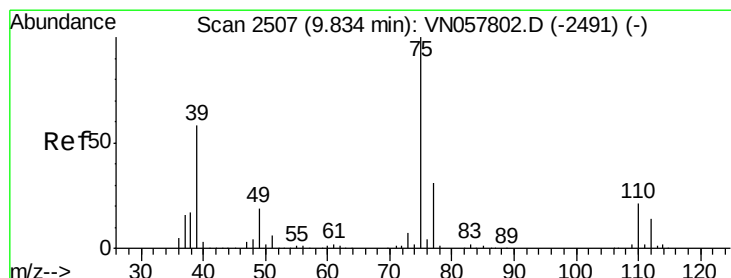
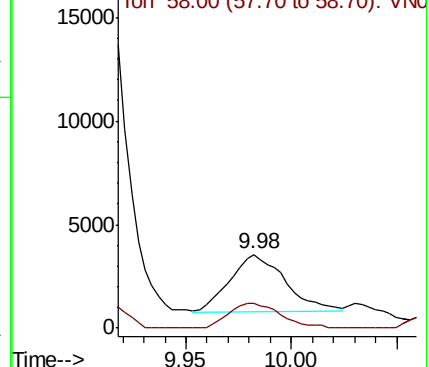
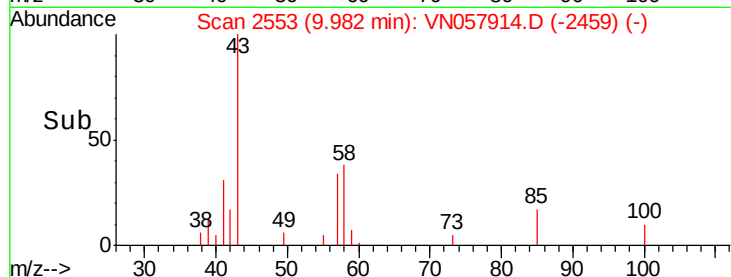
43 100

58 41.2 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-2534) (-)



#54

cis-1,3-Dichloropropene

Concen: 3.716 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057914.D

Acq: 11 Sep 2019 11:01

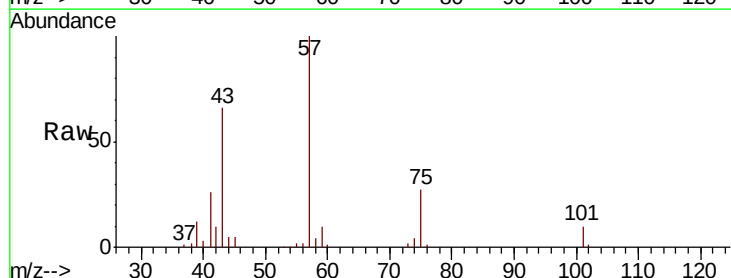
Tgt Ion: 75 Resp: 26864

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

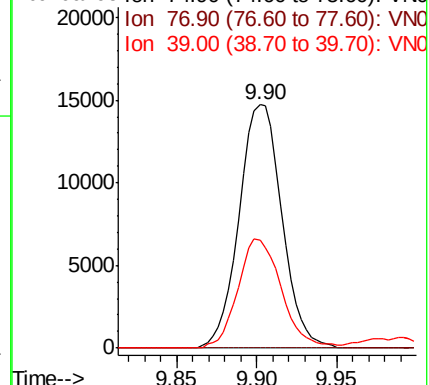
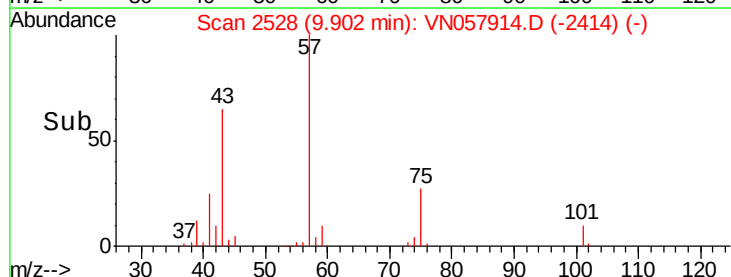
39 42.8 46.2 69.4#

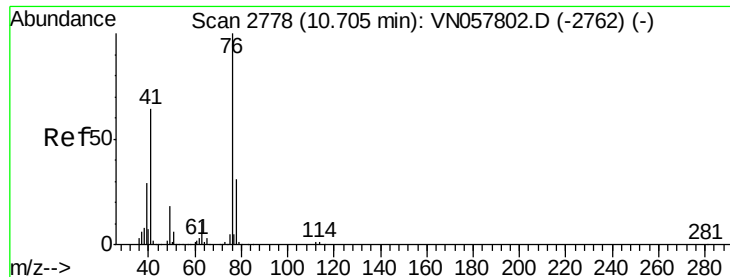


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-2491) (-)

Ion 76.90 (76.60 to 77.60): VN057802.D (-2491) (-)

Ion 39.00 (38.70 to 39.70): VN057802.D (-2491) (-)

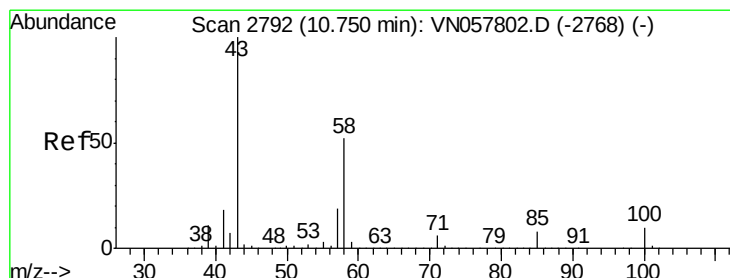
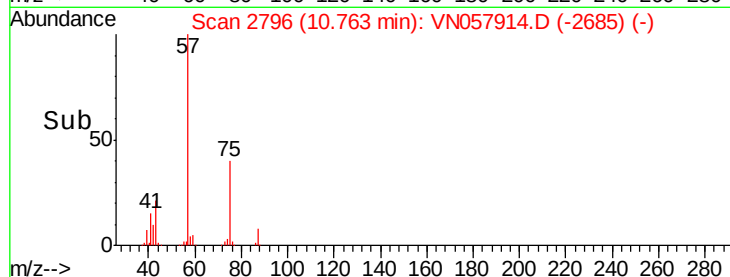
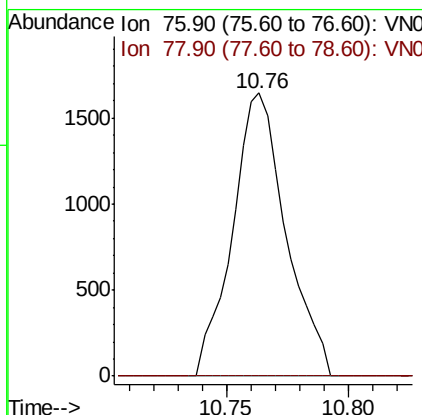
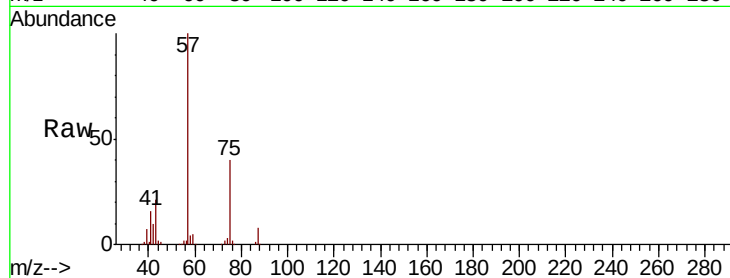




#57
 1,3-Dichloropropane
 Concen: 0.307 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN057914.D
 Acq: 11 Sep 2019 11:01

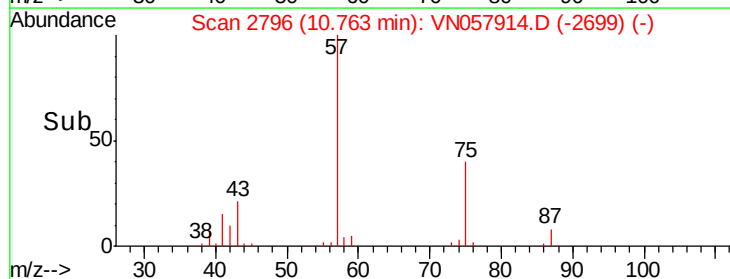
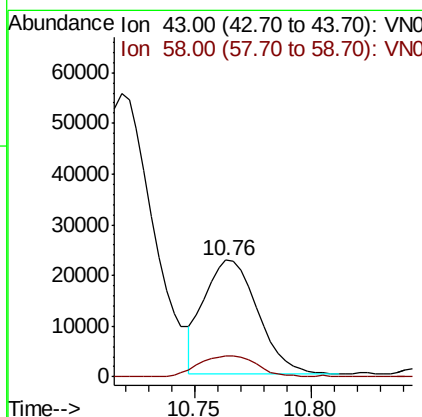
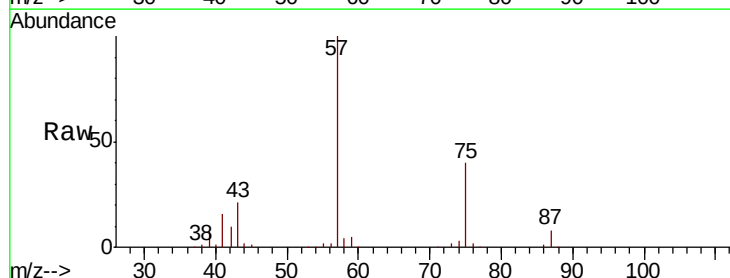
Instrument :
 MSVOA_N
 ClientSampleId :
 T11-C3-(0)

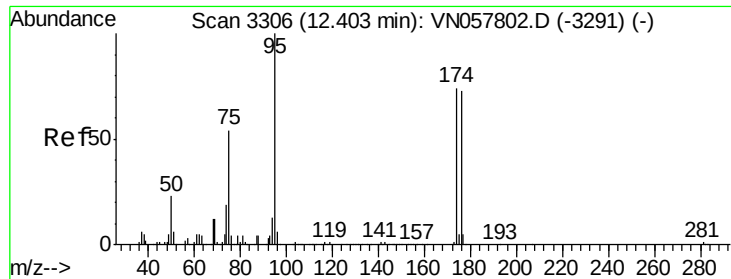
Tgt Ion: 76 Resp: 2501
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 7.961 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057914.D
 Acq: 11 Sep 2019 11:01

Tgt Ion: 43 Resp: 36089
 Ion Ratio Lower Upper
 43 100
 58 20.3 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 43.907 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057914.D

Acq: 11 Sep 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

T11-C3-(0)

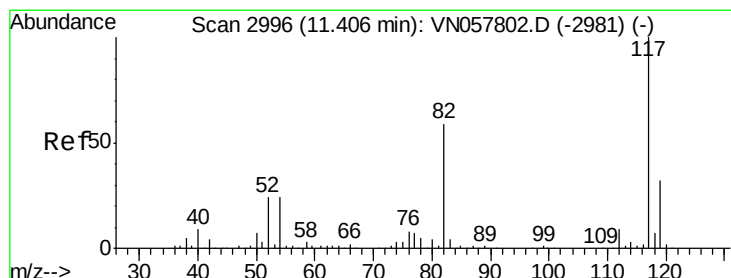
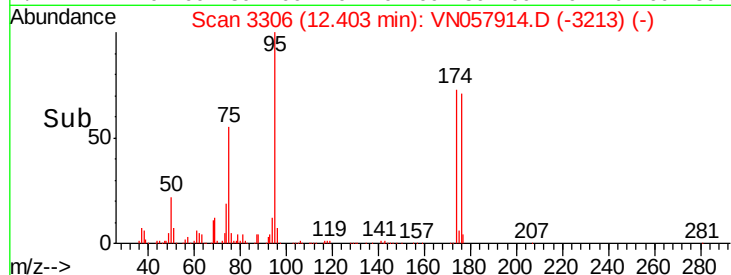
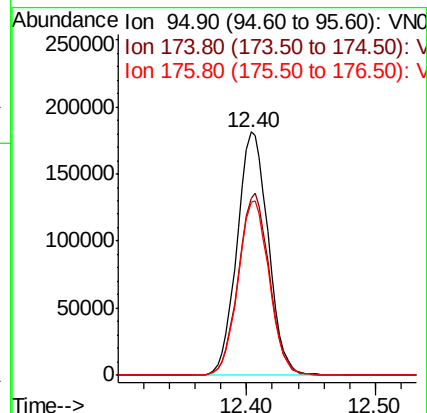
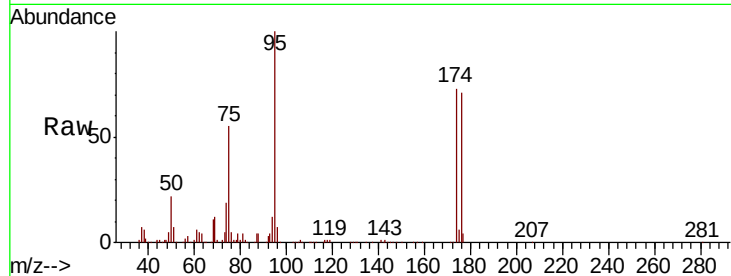
Tgt Ion: 95 Resp: 304098

Ion Ratio Lower Upper

95 100

174 74.4 0.0 150.2

176 71.9 0.0 146.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057914.D

Acq: 11 Sep 2019 11:01

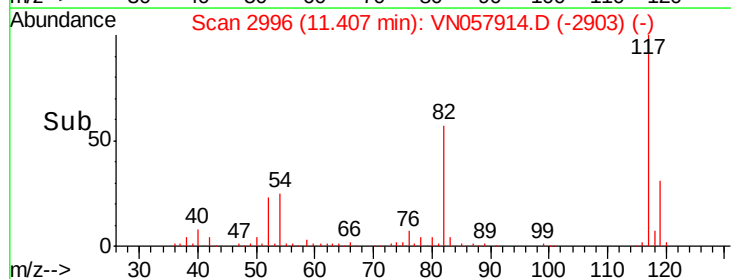
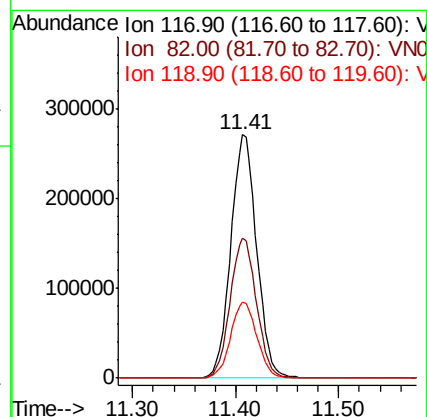
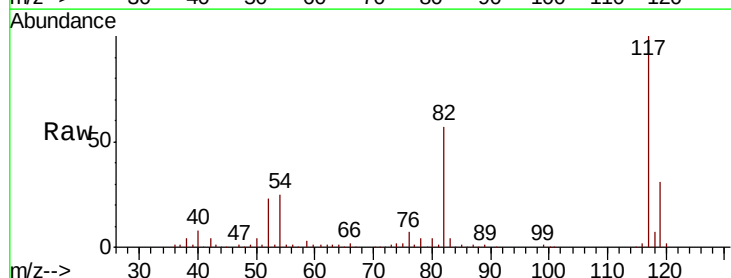
Tgt Ion: 117 Resp: 474354

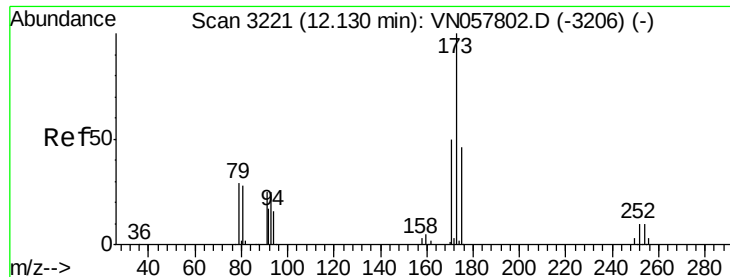
Ion Ratio Lower Upper

117 100

82 57.5 47.2 70.8

119 31.4 25.3 37.9





#71

Bromoform

Concen: 0.251 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN057914.D

Acq: 11 Sep 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

T11-C3-(0)

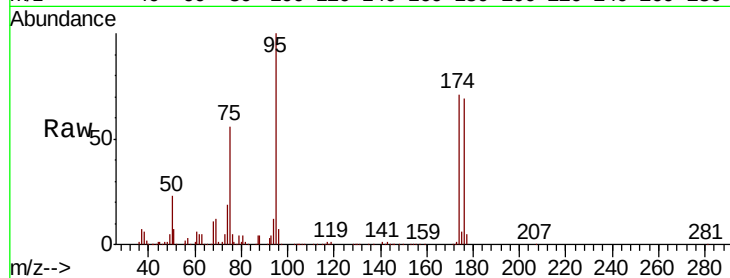
Tgt Ion:173 Resp: 675

Ion Ratio Lower Upper

173 100

175 2217.3 23.5 70.6#

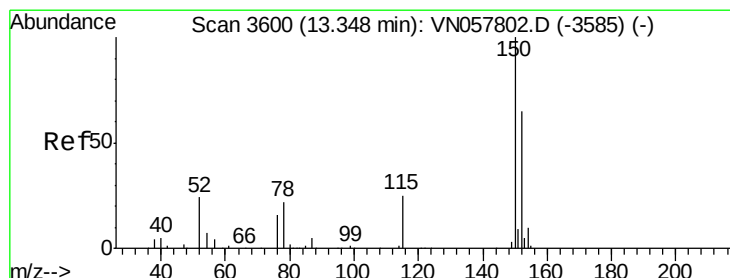
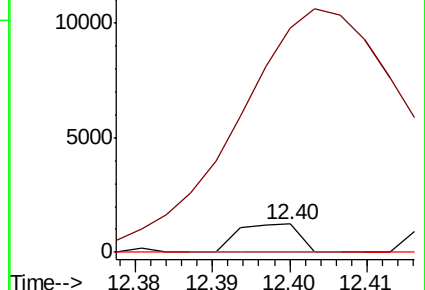
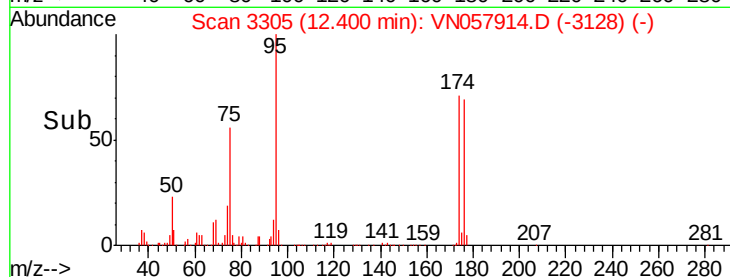
254 0.0 0.1 0.1#



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: VN057914.D

Acq: 11 Sep 2019 11:01

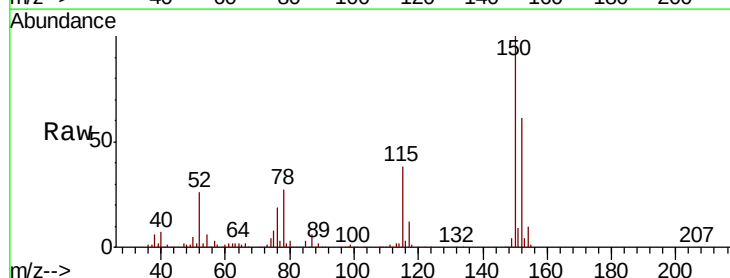
Tgt Ion:152 Resp: 242796

Ion Ratio Lower Upper

152 100

115 61.7 30.3 91.0

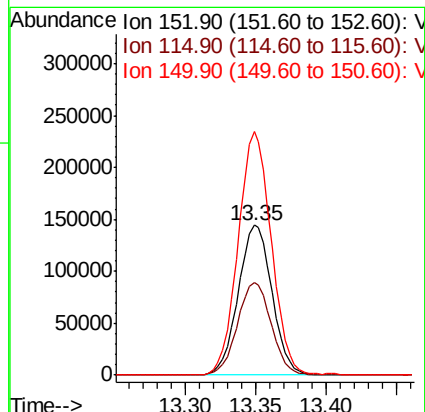
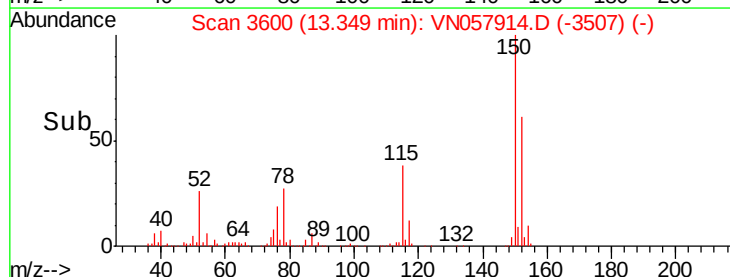
150 158.7 0.0 352.4

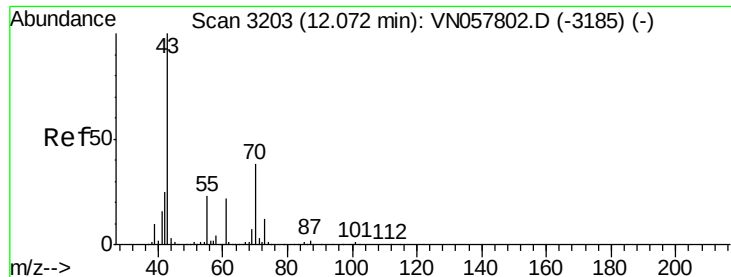


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.360 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN057914.D

Acq: 11 Sep 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

T11-C3-(0)

Tgt Ion: 43 Resp: 2948

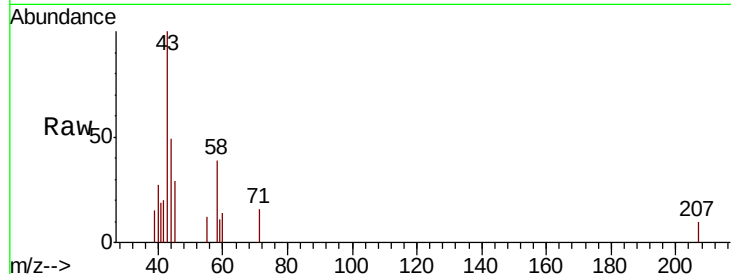
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 6.5 18.6 27.8#

61 0.0 17.4 26.2#

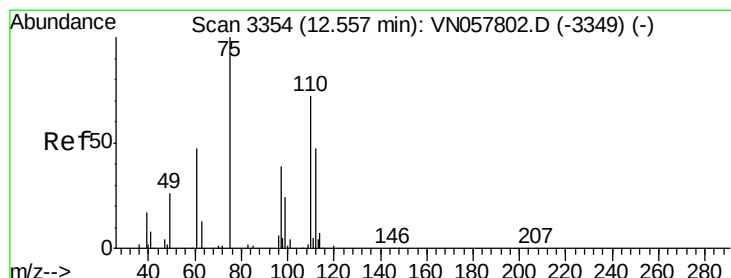
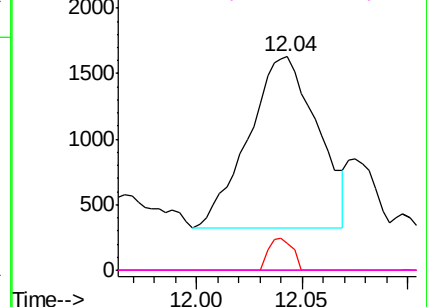
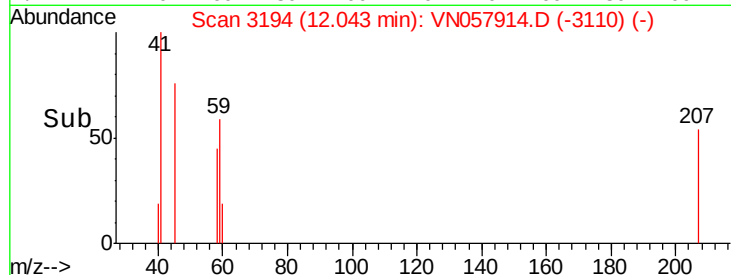


Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-3185) (-)

Ion 70.00 (69.70 to 70.70): VN057802.D (-3185) (-)

Ion 55.00 (54.70 to 55.70): VN057802.D (-3185) (-)

Ion 61.00 (60.70 to 61.70): VN057802.D (-3185) (-)



#76

1,2,3-Trichloropropane

Concen: 30.868 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057914.D

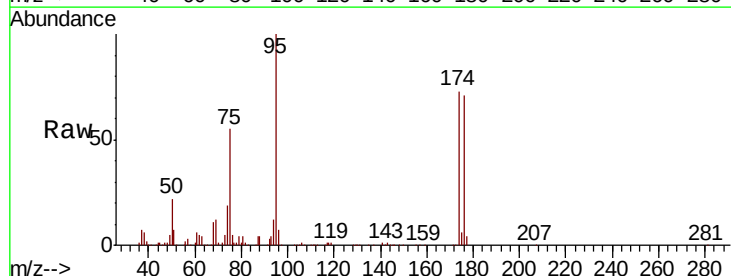
Acq: 11 Sep 2019 11:01

Tgt Ion: 75 Resp: 169539

Ion Ratio Lower Upper

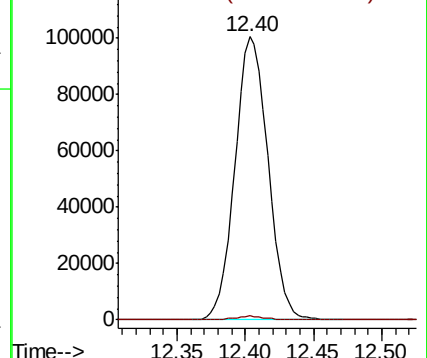
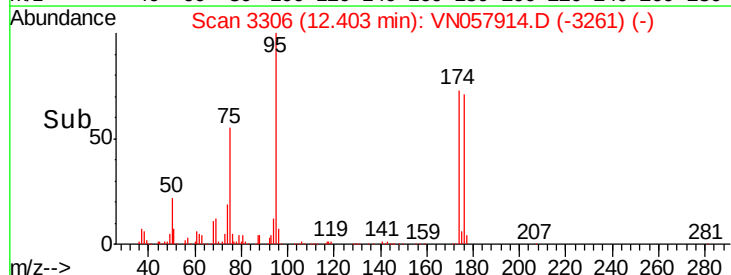
75 100

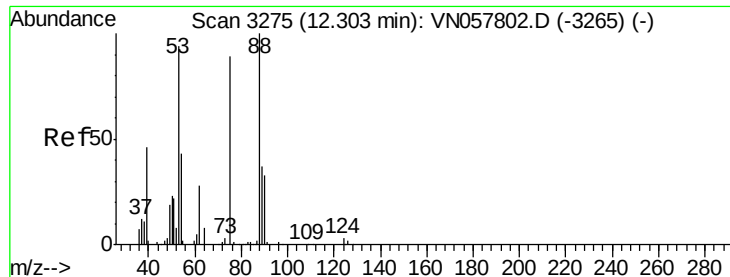
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-3349) (-)

Ion 77.00 (76.70 to 77.70): VN057802.D (-3349) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 108.624 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057914.D

Acq: 11 Sep 2019 11:01

Instrument :

MSVOA_N

ClientSampleId :

T11-C3-(0)

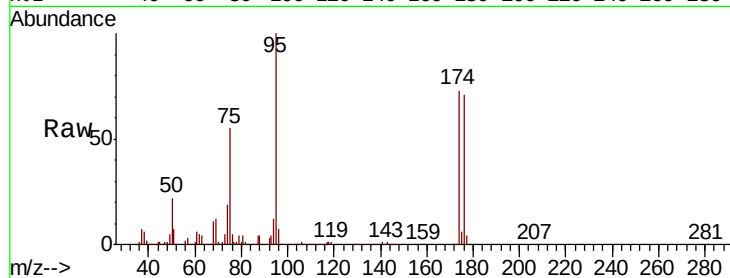
Tgt Ion: 75 Resp: 169539

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

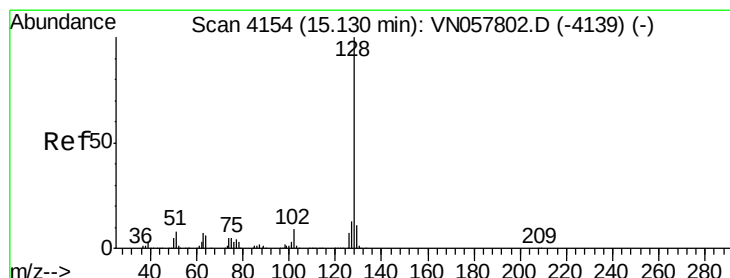
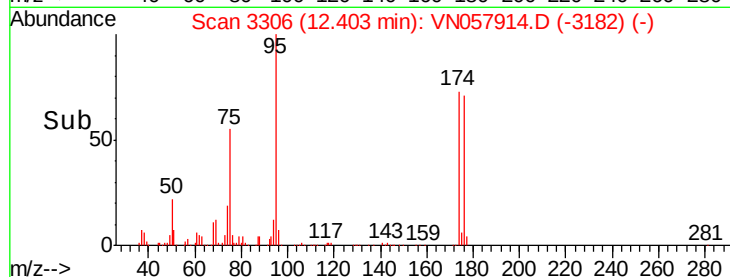
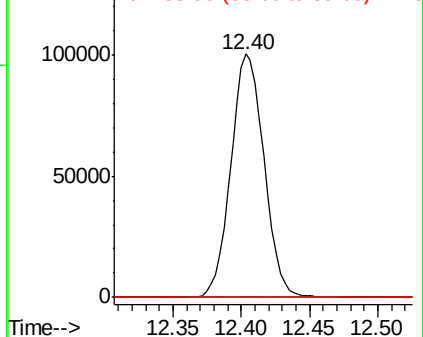
89 0.0 35.3 52.9#



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: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN057914.D

Acq: 11 Sep 2019 11:01

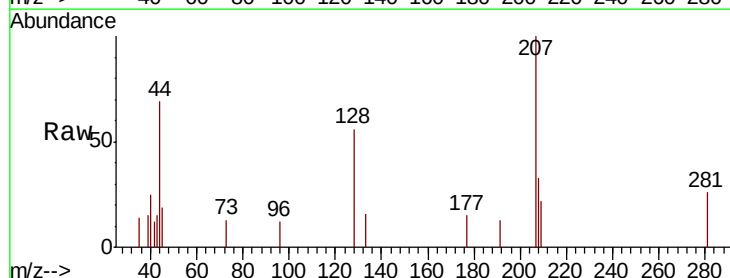
Tgt Ion: 128 Resp: 1154

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

