

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057997.D
 Acq On : 13 Sep 2019 1:59
 Operator : JC/SP
 Sample : K4644-27
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E3-(0)

Quant Time: Sep 13 04:54:04 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	271562	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	476681	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	437196	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	228867	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	324038	58.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.82%	
35) Dibromofluoromethane	7.58	113	226937	51.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.16%	
50) Toluene-d8	10.09	98	863224	50.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.08%	
62) 4-Bromofluorobenzene	12.41	95	288027	44.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.50%	

Target Compounds

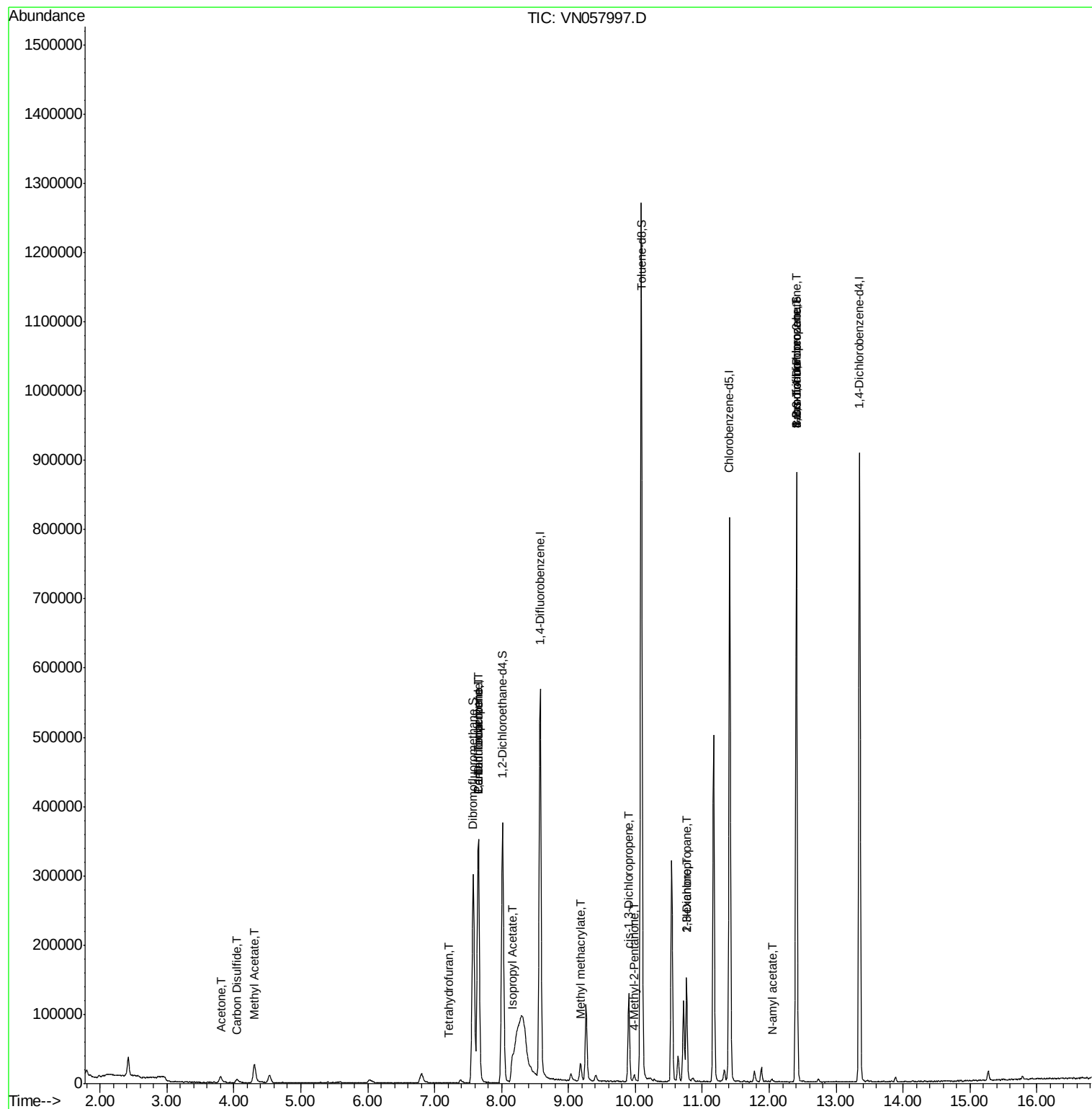
					Qvalue
5) Bromomethane	2.55	94	109	Below Cal	# 64
16) Acetone	3.80	43	14672	8.137	ug/l 97
17) Carbon Disulfide	4.04	76	200	0.203	ug/l # 75
18) Methyl Acetate	4.31	43	48621	10.113	ug/l 99
20) Methylene Chloride	4.53	84	3088	Below Cal	# 89
29) Tetrahydrofuran	7.21	42	632	0.393	ug/l # 34
31) Cyclohexane	7.66	56	6807	Below Cal	# 1
36) 1,1-Dichloropropene	7.65	75	24320	4.399	ug/l # 51
38) Carbon Tetrachloride	7.65	117	28282	5.603	ug/l # 16
43) Isopropyl Acetate	8.16	43	40861	4.254	ug/l # 76
48) Methyl methacrylate	9.17	41	5026	1.032	ug/l # 29
51) 4-Methyl-2-Pentanone	9.98	43	5175	0.910	ug/l 94
54) cis-1,3-Dichloropropene	9.90	75	22542	3.318	ug/l # 68
57) 1,3-Dichloropropane	10.77	76	1684	0.220	ug/l # 43
59) 2-Hexanone	10.76	43	21765	5.109	ug/l # 57
71) Bromoform	12.40	173	766	0.309	ug/l # 30
74) N-amyl acetate	12.03	43	2745	0.355	ug/l # 47
76) 1,2,3-Trichloropropane	12.41	75	158233	30.562	ug/l # 100
81) trans-1,4-Dichloro-2-buten	12.41	75	158233	107.550	ug/l # 6
95) Naphthalene	15.14	128	564	Below Cal	# 69

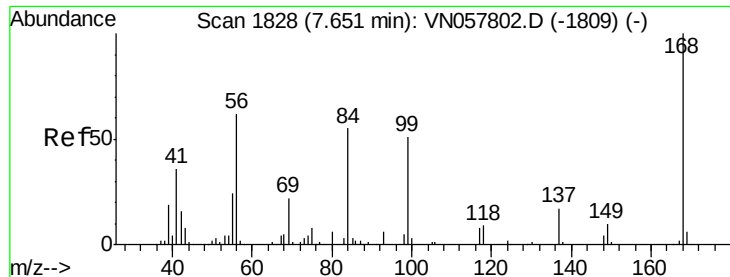
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057997.D

Acq: 13 Sep 2019 1:59

Instrument :

MSVOA_N

ClientSampleId :

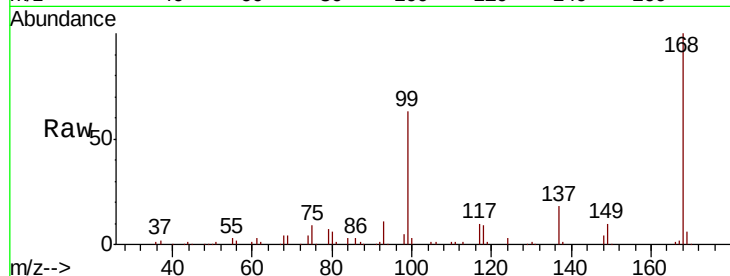
T11-E3-(0)

Tgt Ion:168 Resp: 271562

Ion Ratio Lower Upper

168 100

99 62.7 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

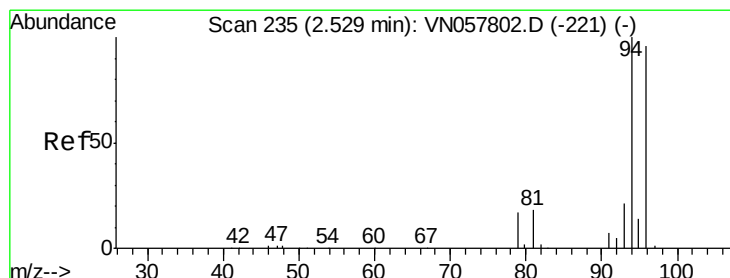
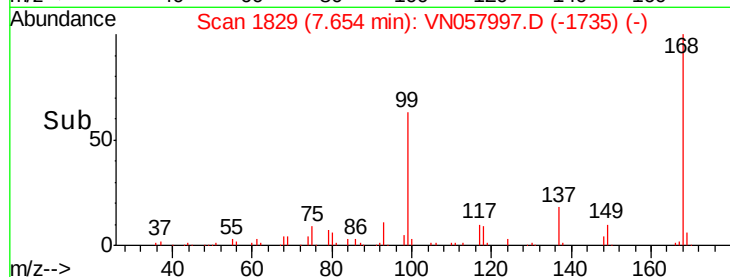
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN057997.D

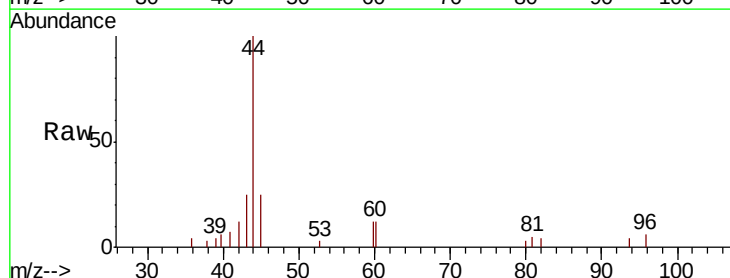
Acq: 13 Sep 2019 1:59

Tgt Ion: 94 Resp: 109

Ion Ratio Lower Upper

94 100

96 131.7 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

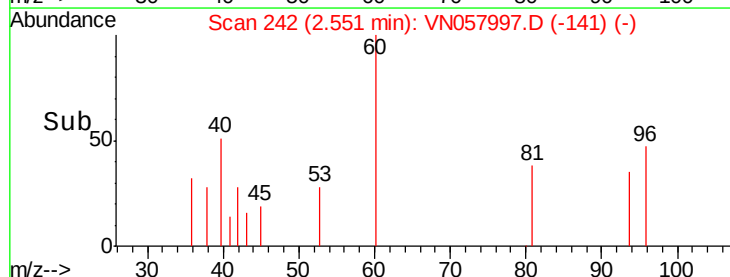
300

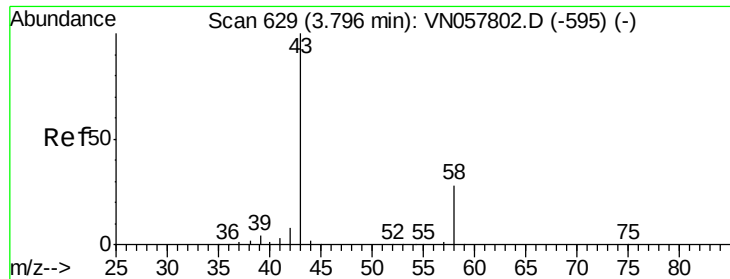
200

100

0

Time-->

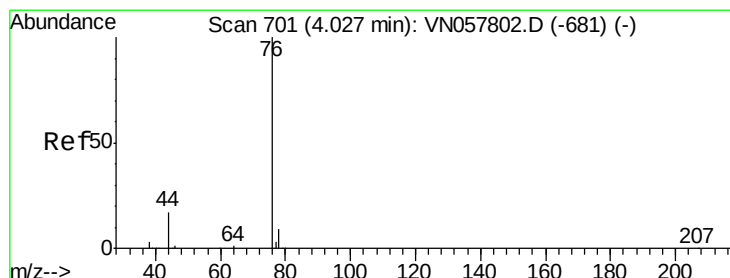
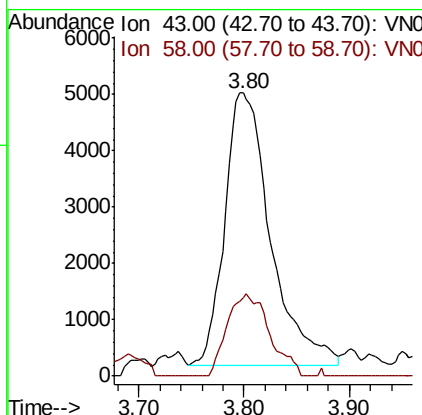
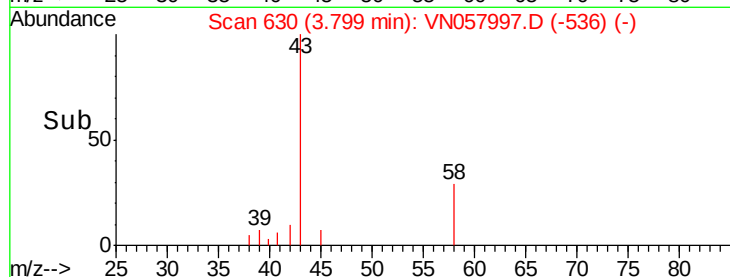
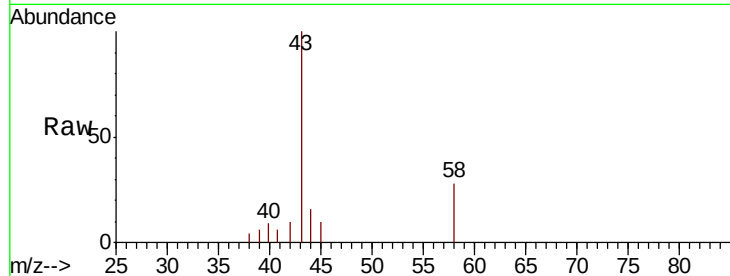




#16
Acetone
Concen: 8.137 ug/l
RT: 3.80 min Scan# 630
Delta R.T. 0.00 min
Lab File: VN057997.D
Acq: 13 Sep 2019 1:59

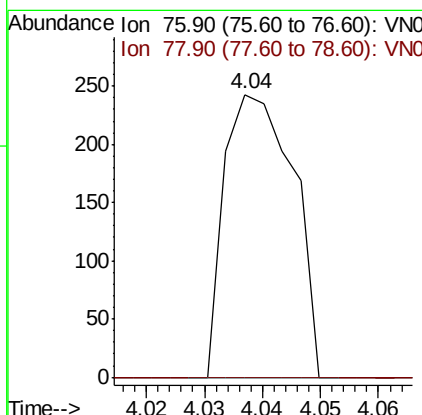
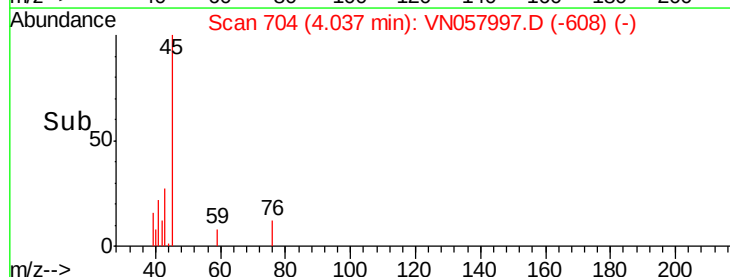
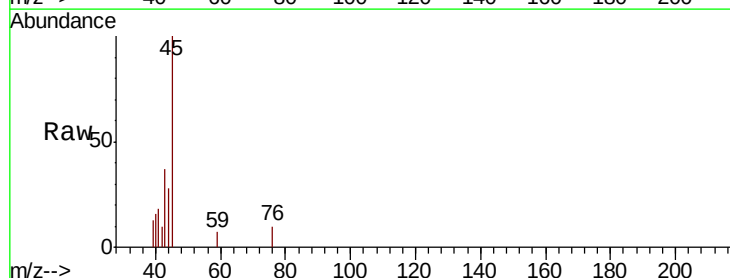
Instrument :
MSVOA_N
ClientSampled :
T11-E3-(0)

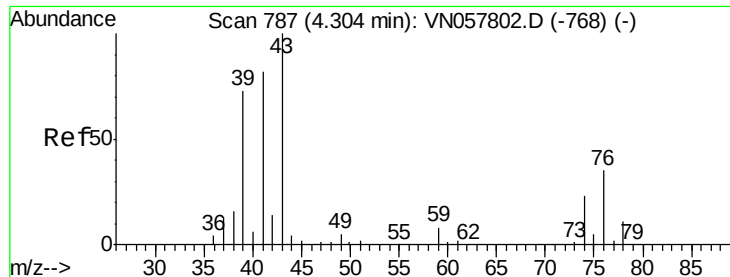
Tgt Ion: 43 Resp: 14672
Ion Ratio Lower Upper
43 100
58 29.0 22.2 33.2



#17
Carbon Disulfide
Concen: 0.203 ug/l
RT: 4.04 min Scan# 704
Delta R.T. 0.01 min
Lab File: VN057997.D
Acq: 13 Sep 2019 1:59

Tgt Ion: 76 Resp: 200
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#

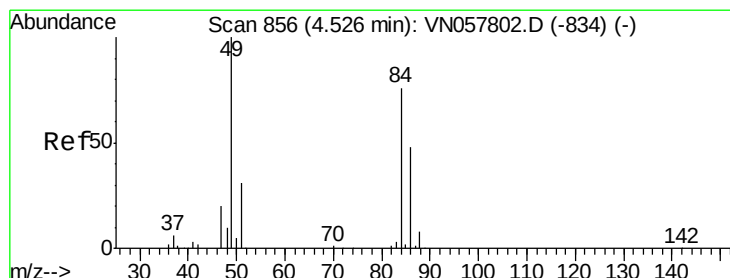
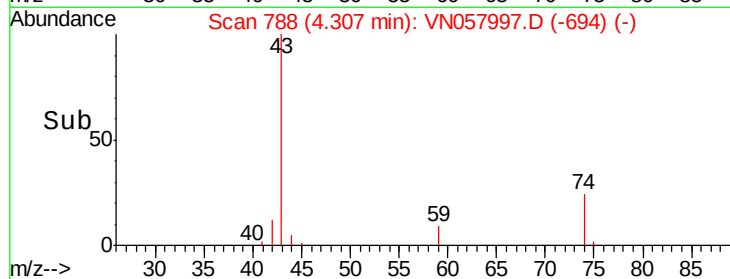
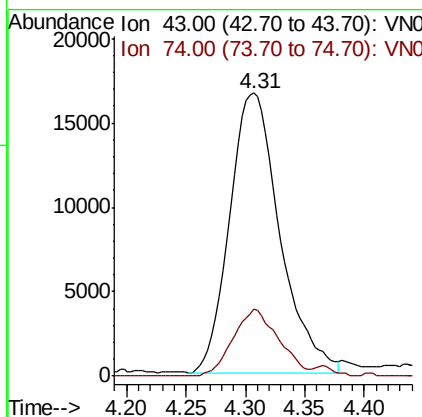
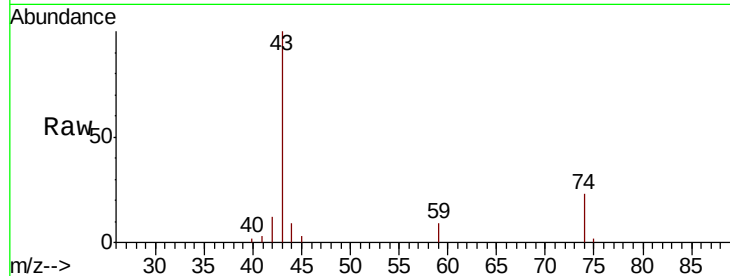




#18
Methyl Acetate
Concen: 10.113 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN057997.D
Acq: 13 Sep 2019 1:59

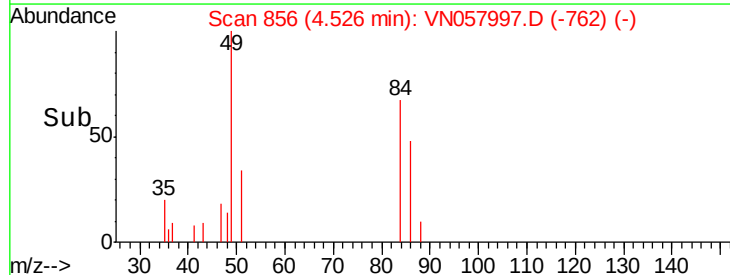
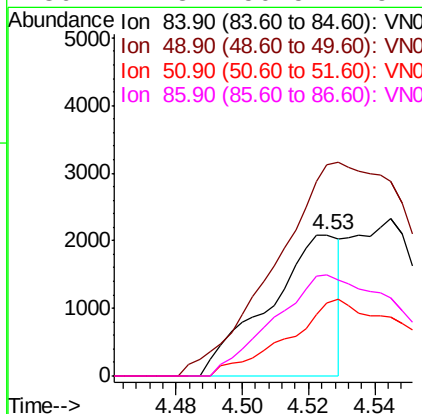
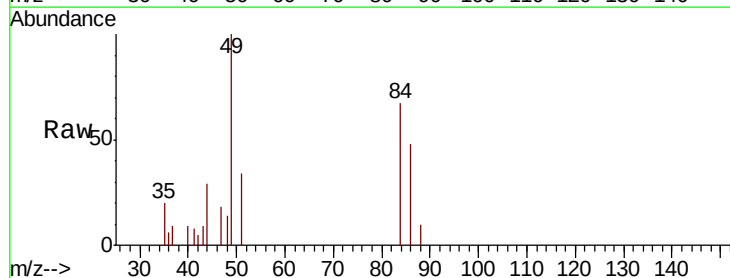
Instrument :
MSVOA_N
ClientSampleId :
T11-E3-(0)

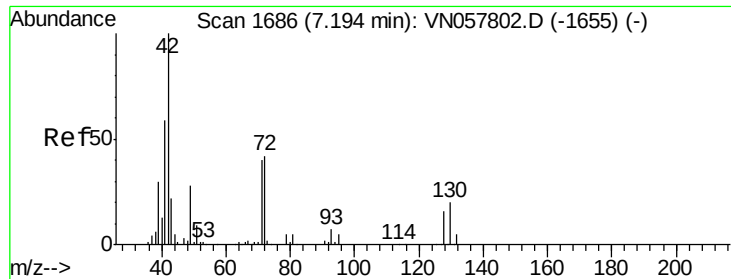
Tgt Ion: 43 Resp: 48621
Ion Ratio Lower Upper
43 100
74 21.7 17.9 26.9



#20
Methylene Chloride
Concen: Below Cal
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN057997.D
Acq: 13 Sep 2019 1:59

Tgt Ion: 84 Resp: 3088
Ion Ratio Lower Upper
84 100
49 141.2 104.8 157.2
51 51.4 33.0 49.4#
86 71.3 50.5 75.7

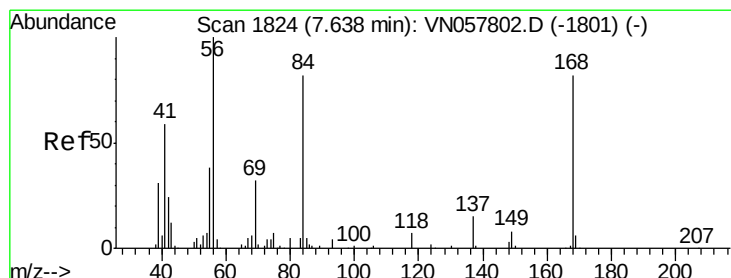
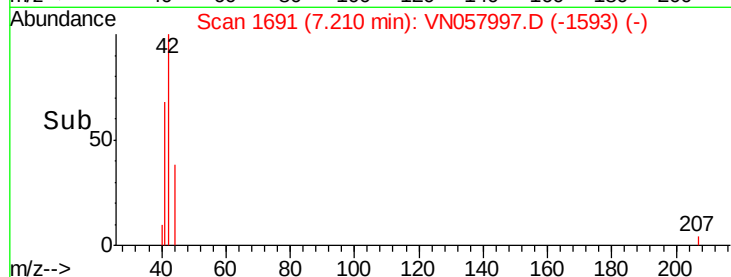
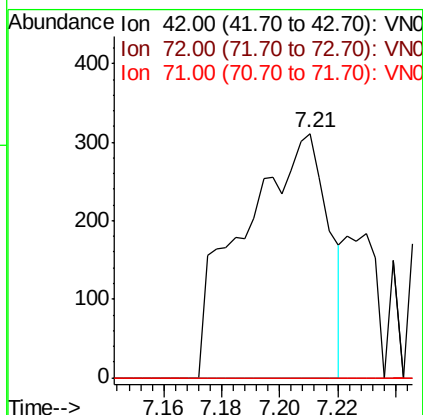
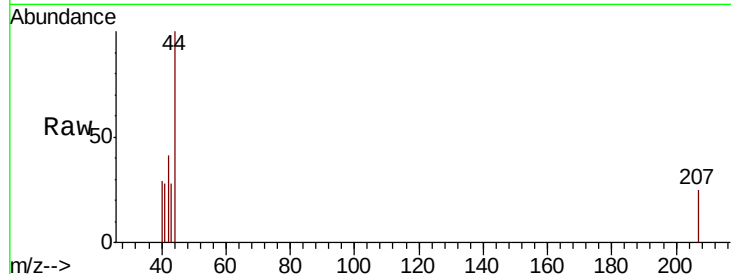




#29
Tetrahydrofuran
Concen: 0.393 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.02 min
Lab File: VN057997.D
Acq: 13 Sep 2019 1:59

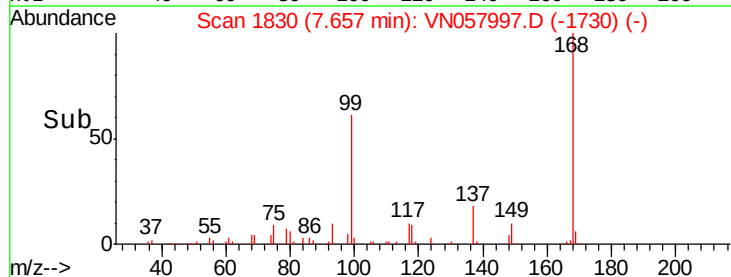
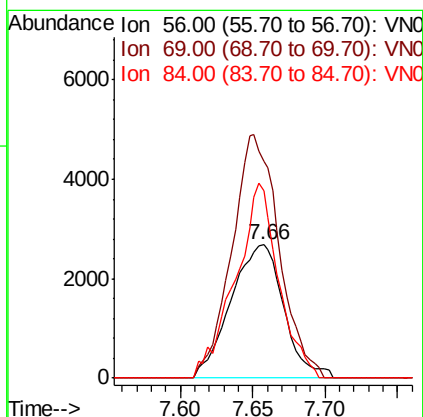
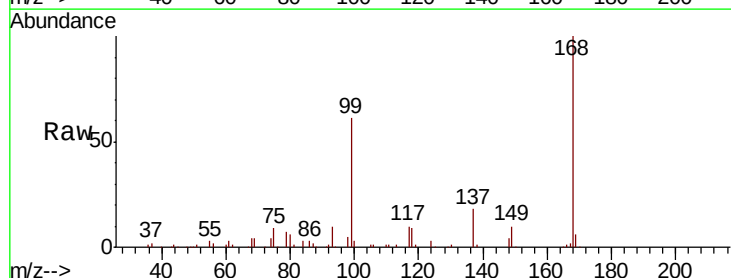
Instrument :
MSVOA_N
ClientSampleId :
T11-E3-(0)

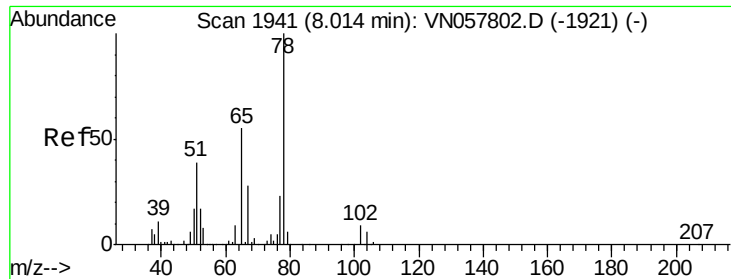
Tgt Ion: 42 Resp: 632
Ion Ratio Lower Upper
42 100
72 0.0 33.7 50.5#
71 0.0 31.9 47.9#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1830
Delta R.T. 0.02 min
Lab File: VN057997.D
Acq: 13 Sep 2019 1:59

Tgt Ion: 56 Resp: 6807
Ion Ratio Lower Upper
56 100
69 162.2 25.9 38.9#
84 140.4 65.6 98.4#

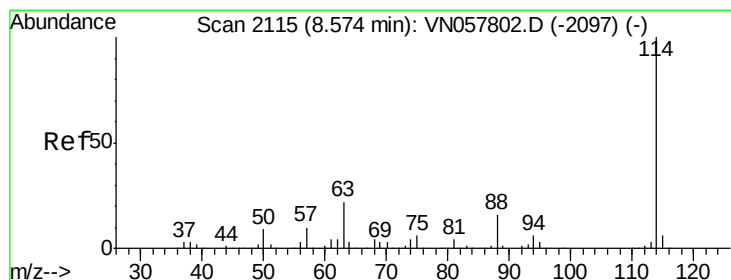
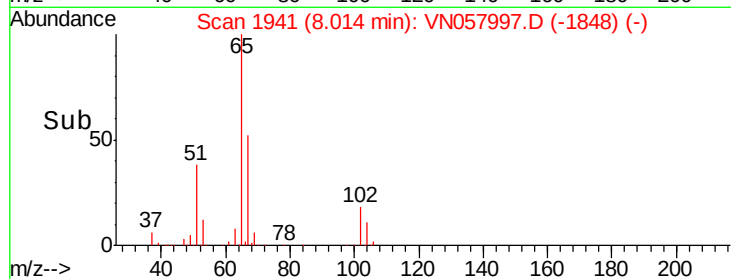
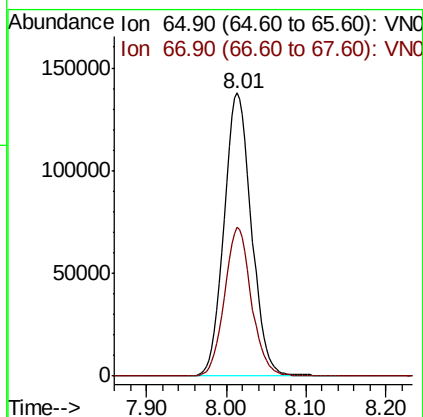
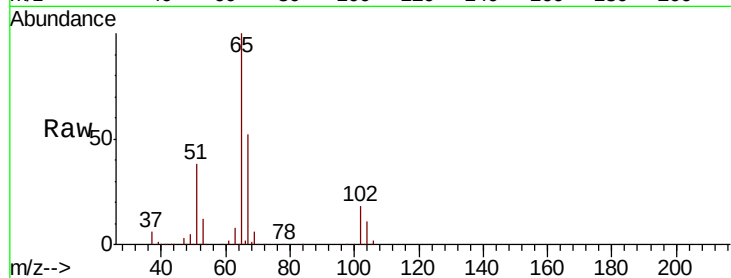




#33
 1,2-Dichloroethane-d4
 Concen: 58.913 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057997.D
 Acq: 13 Sep 2019 1:59

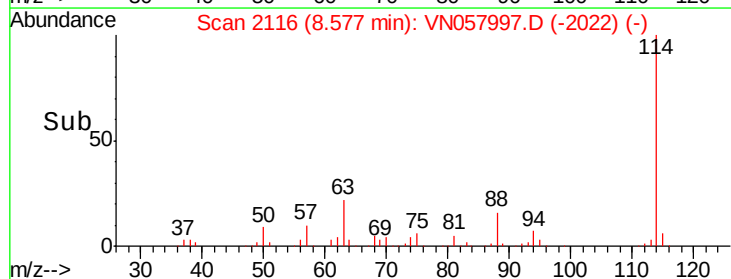
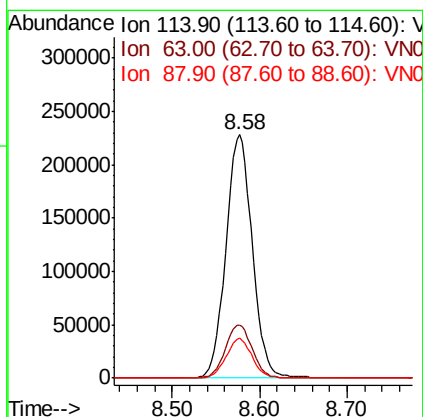
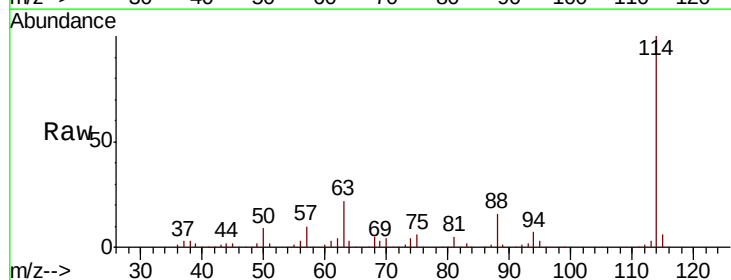
Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E3-(0)

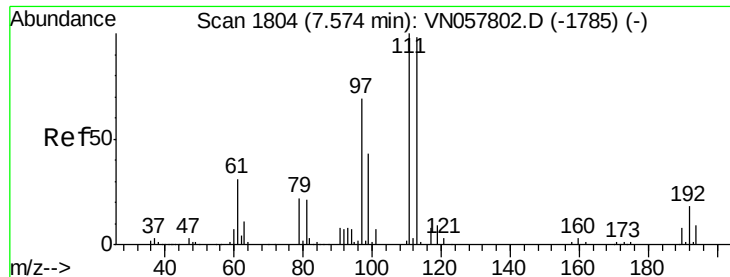
Tgt Ion: 65 Resp: 324038
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057997.D
 Acq: 13 Sep 2019 1:59

Tgt Ion: 114 Resp: 476681
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 44.0
 88 16.3 0.0 31.4

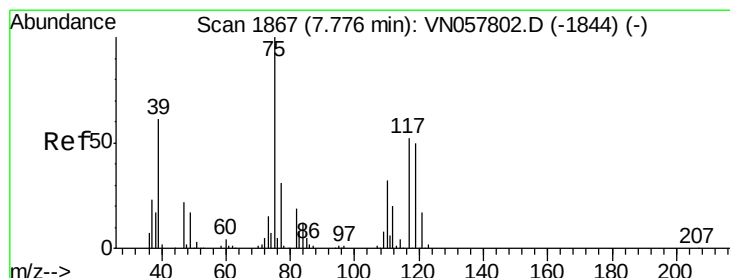
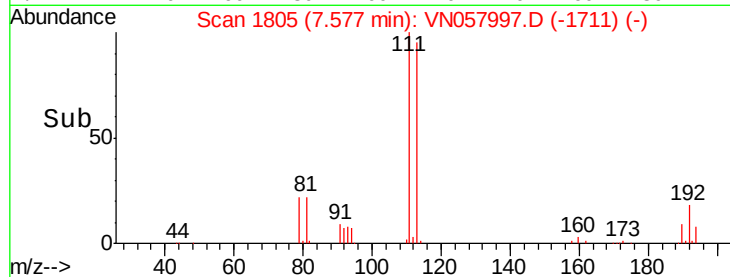
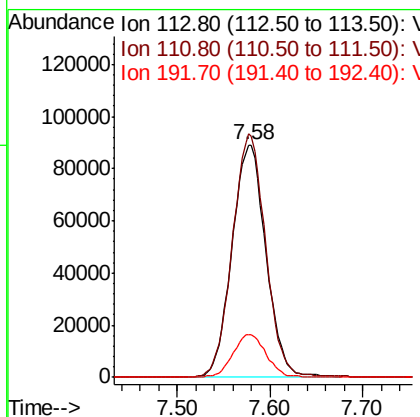
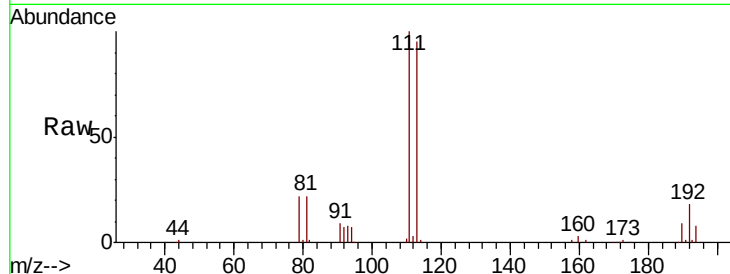




#35
 Dibromofluoromethane
 Concen: 51.582 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057997.D
 Acq: 13 Sep 2019 1:59

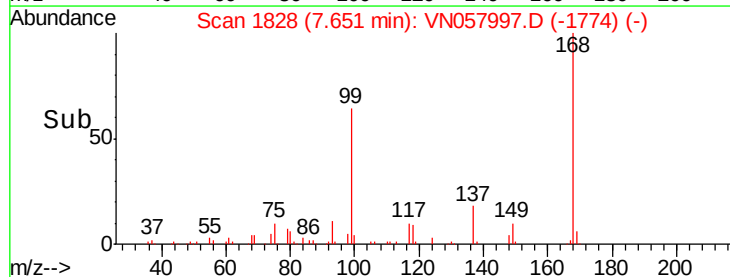
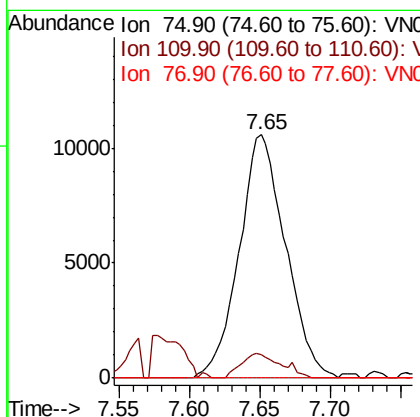
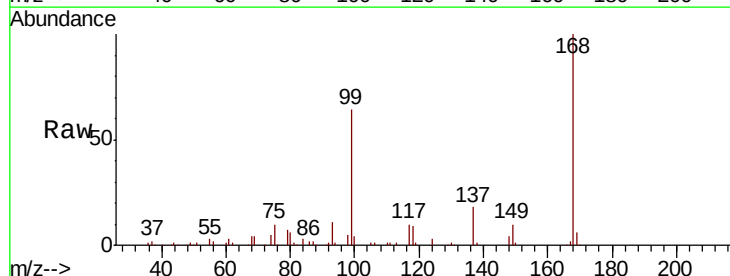
Instrument :
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 ClientSampleId :
 T11-E3-(0)

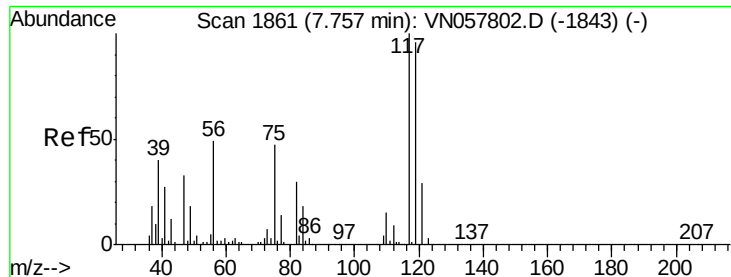
Tgt Ion	Ratio	Resp	Lower	Upper
113	100	226937		
111	102.3	81.3	121.9	
192	18.0	14.6	22.0	



#36
 1,1-Dichloropropene
 Concen: 4.399 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057997.D
 Acq: 13 Sep 2019 1:59

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	24320		
110	8.8	16.3	48.9#	
77	0.0	25.0	37.4#	

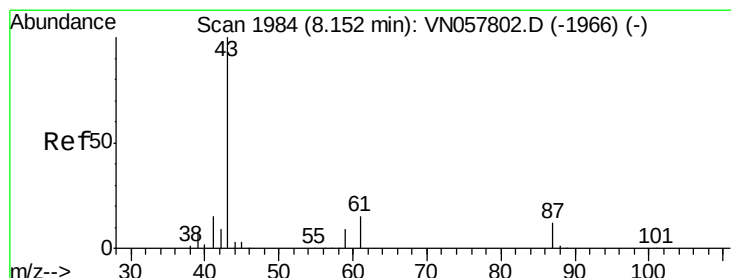
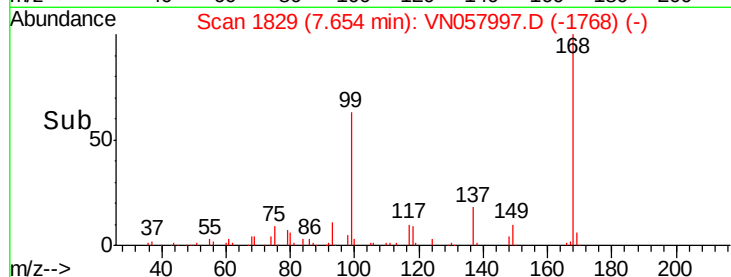
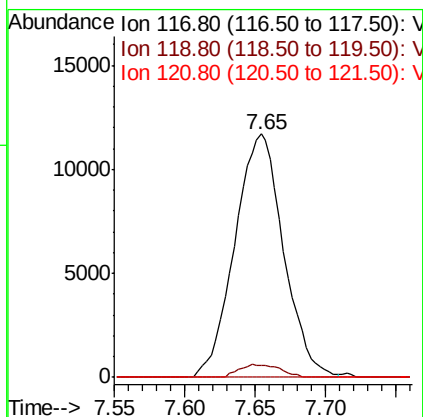
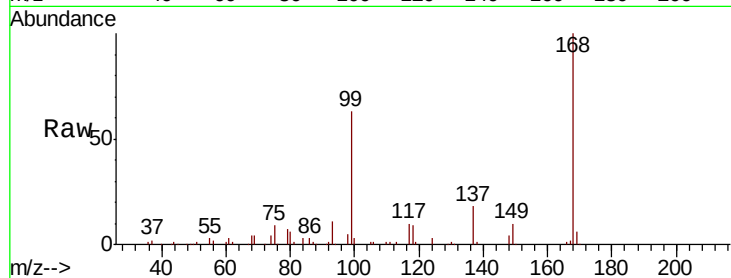




#38
Carbon Tetrachloride
Concen: 5.603 ug/l
RT: 7.65 min Scan# 1829
Delta R.T. -0.10 min
Lab File: VN057997.D
Acq: 13 Sep 2019 1:59

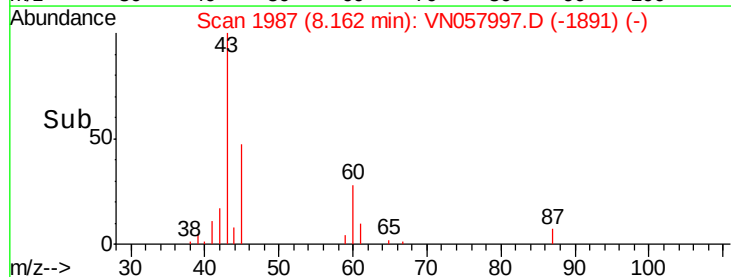
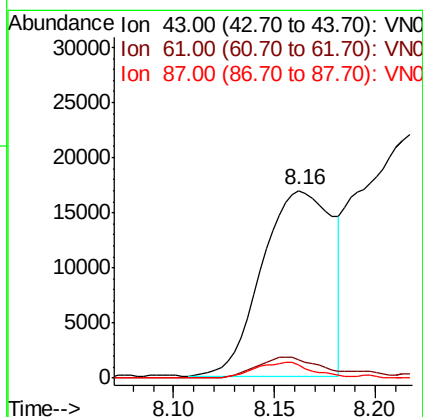
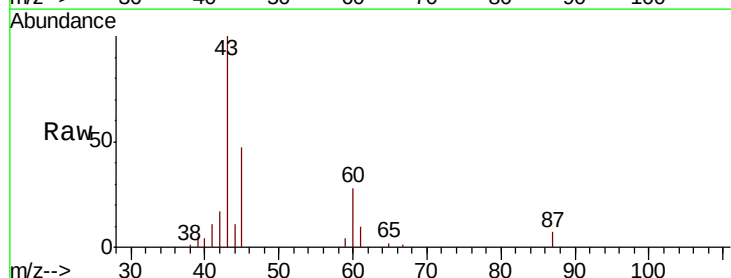
Instrument :
MSVOA_N
ClientSampleId :
T11-E3-(0)

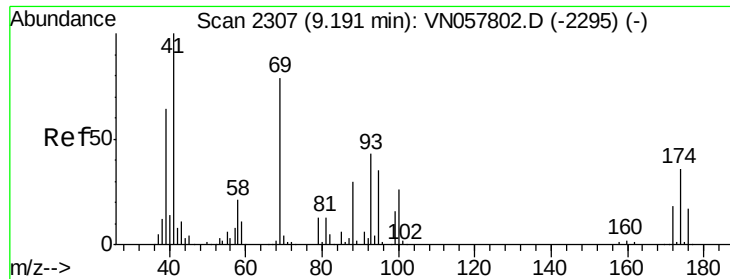
Tgt Ion: 117 Resp: 28282
Ion Ratio Lower Upper
117 100
119 4.8 76.9 115.3#
121 0.0 23.4 35.2#



#43
Isopropyl Acetate
Concen: 4.254 ug/l
RT: 8.16 min Scan# 1987
Delta R.T. 0.01 min
Lab File: VN057997.D
Acq: 13 Sep 2019 1:59

Tgt Ion: 43 Resp: 40861
Ion Ratio Lower Upper
43 100
61 10.3 20.1 30.1#
87 7.0 9.5 14.3#

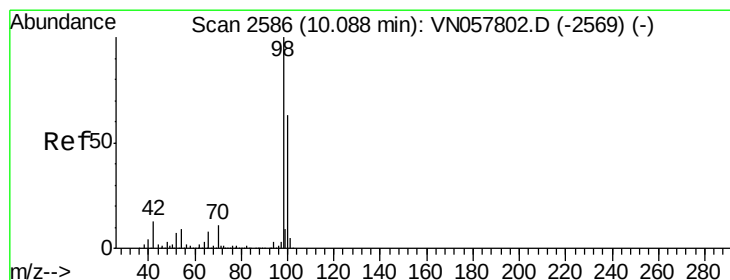
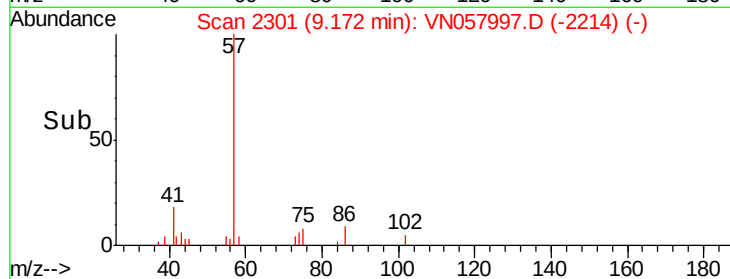
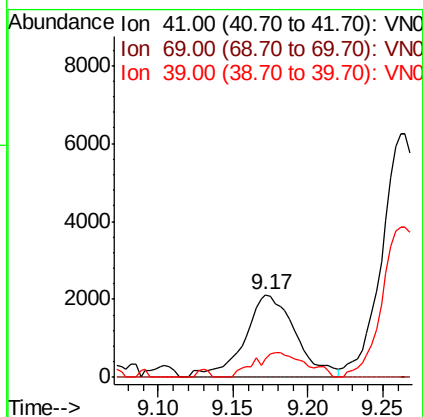
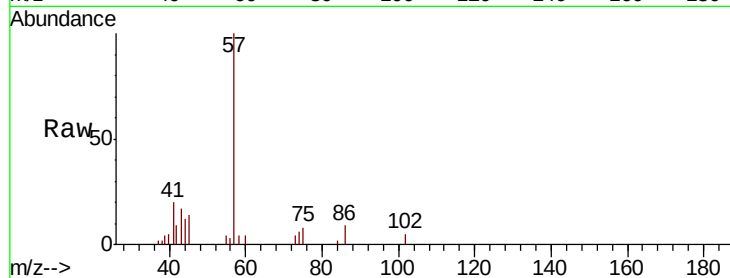




#48
Methyl methacrylate
Concen: 1.032 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN057997.D
Acq: 13 Sep 2019 1:59

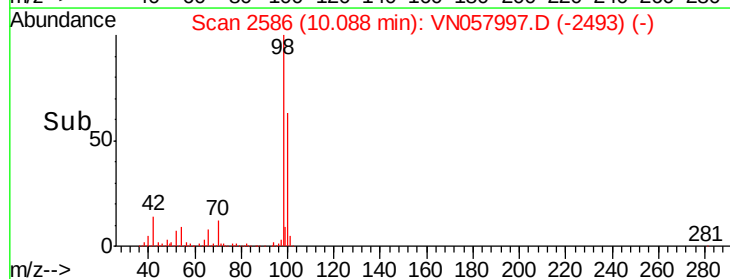
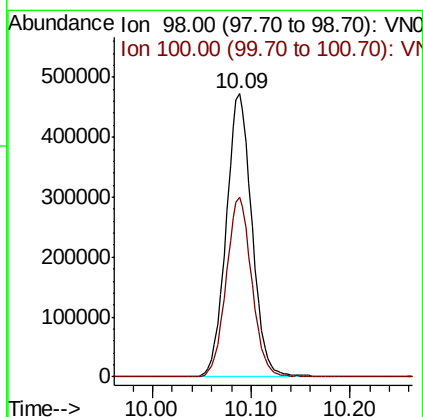
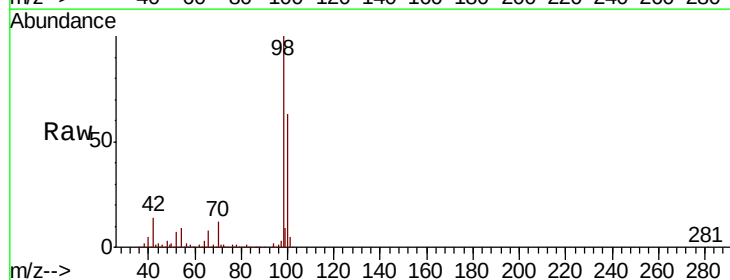
Instrument :
MSVOA_N
ClientSampleId :
T11-E3-(0)

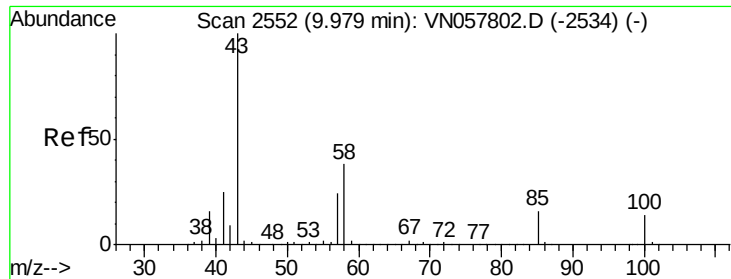
Tgt Ion: 41 Resp: 5026
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 27.2 52.7 79.1#



#50
Toluene-d8
Concen: 50.536 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057997.D
Acq: 13 Sep 2019 1:59

Tgt Ion: 98 Resp: 863224
Ion Ratio Lower Upper
98 100
100 63.1 50.3 75.5





#51

4-Methyl-2-Pentanone

Concen: 0.910 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057997.D

Acq: 13 Sep 2019 1:59

Instrument :

MSVOA_N

ClientSampleId :

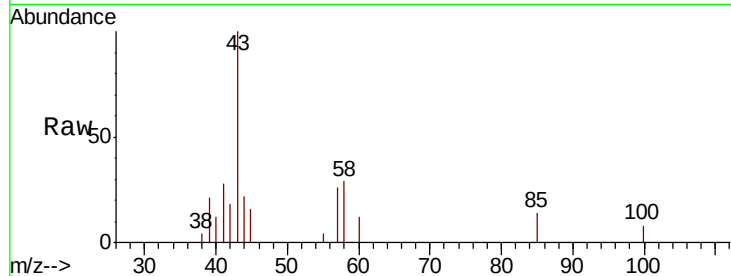
T11-E3-(0)

Tgt Ion: 43 Resp: 5175

Ion Ratio Lower Upper

43 100

58 40.7 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) (-)

8000

6000

4000

2000

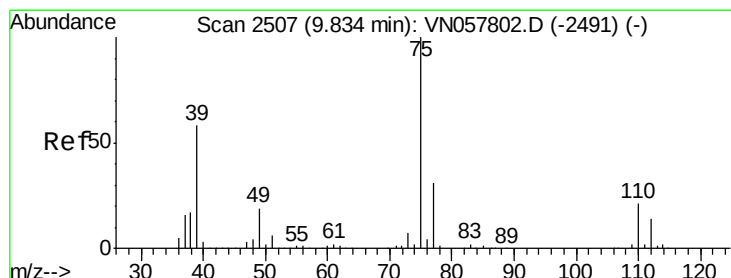
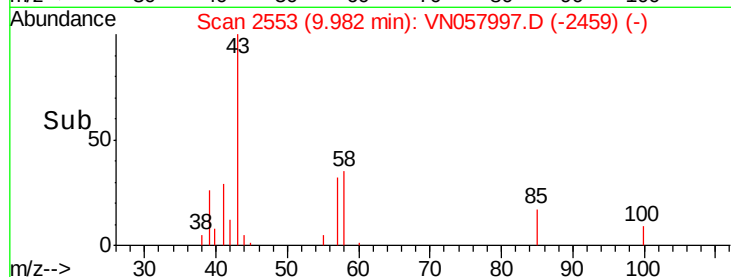
0

9.95

9.98

10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 3.318 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057997.D

Acq: 13 Sep 2019 1:59

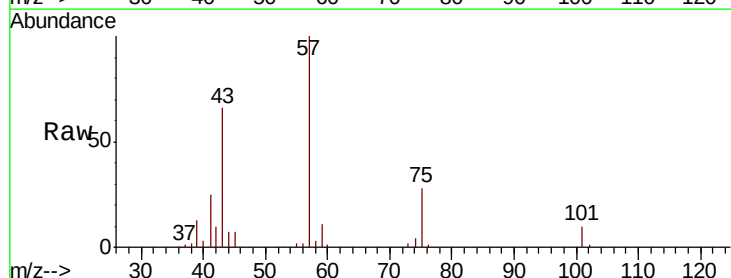
Tgt Ion: 75 Resp: 22542

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 43.3 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) (-)

15000

10000

5000

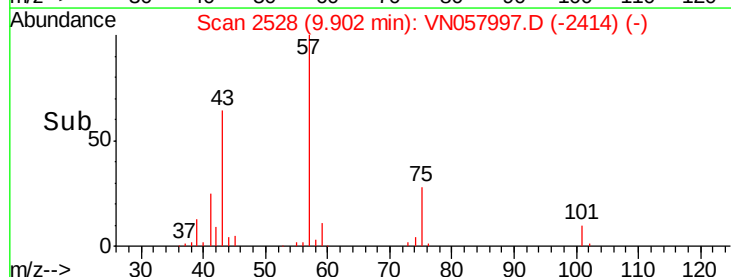
0

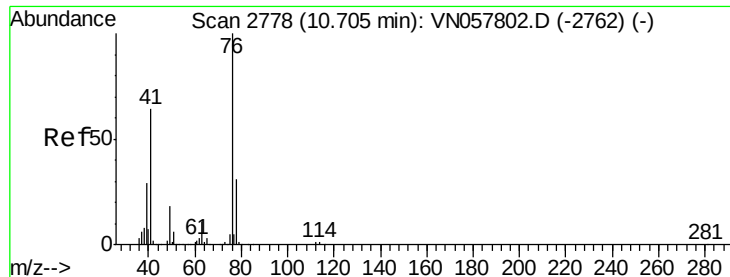
9.85

9.90

9.95

Time-->





#57

1,3-Dichloropropane

Concen: 0.220 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN057997.D

Acq: 13 Sep 2019 1:59

Instrument :

MSVOA_N

ClientSampleId :

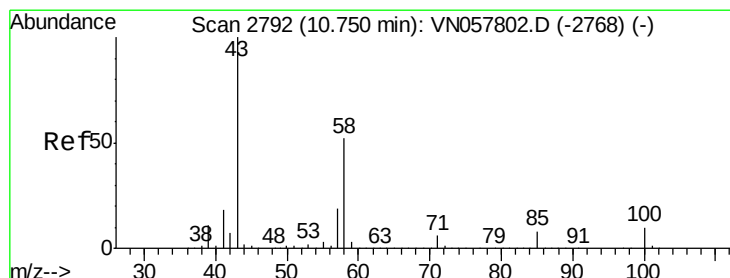
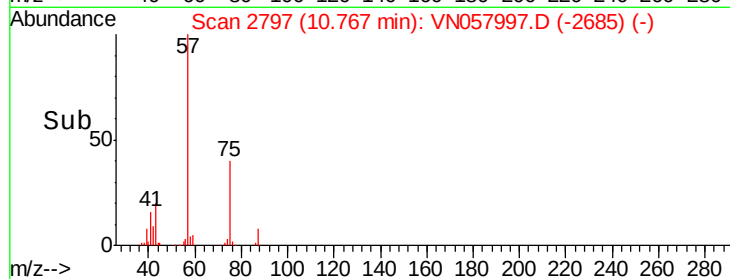
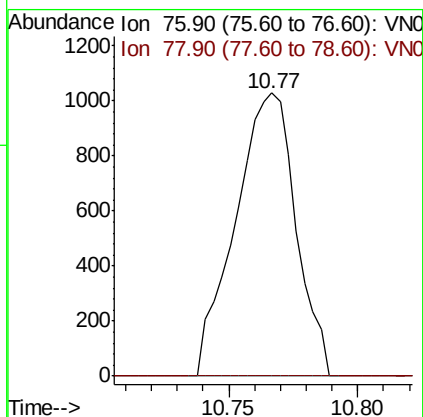
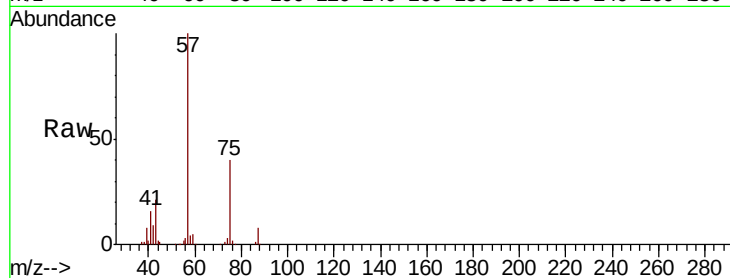
T11-E3-(0)

Tgt Ion: 76 Resp: 1684

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.2#



#59

2-Hexanone

Concen: 5.109 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057997.D

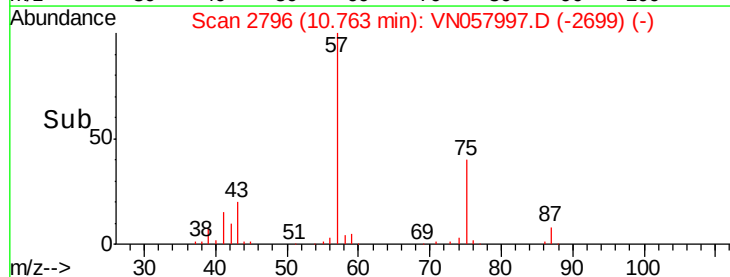
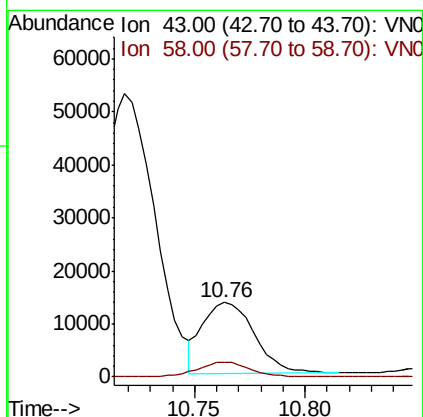
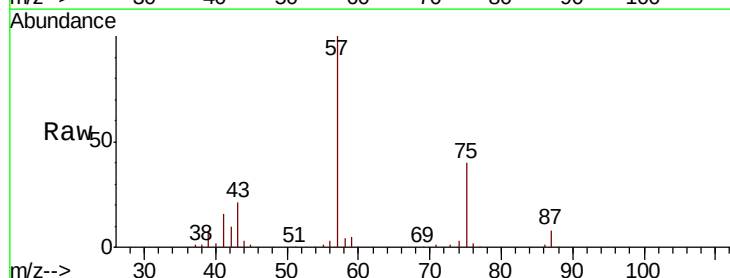
Acq: 13 Sep 2019 1:59

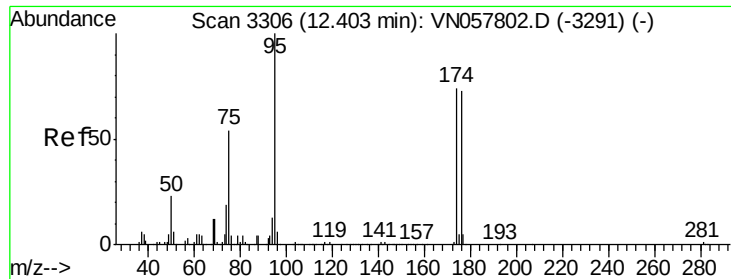
Tgt Ion: 43 Resp: 21765

Ion Ratio Lower Upper

43 100

58 21.2 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 44.247 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN057997.D

Acq: 13 Sep 2019 1:59

Instrument :

MSVOA_N

ClientSampleId :

T11-E3-(0)

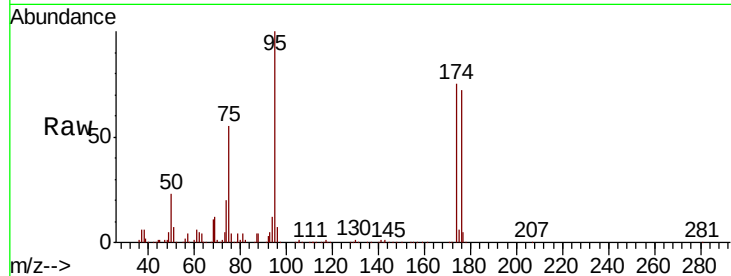
Tgt Ion: 95 Resp: 288027

Ion Ratio Lower Upper

95 100

174 75.5 0.0 150.2

176 72.1 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

12.41

200000

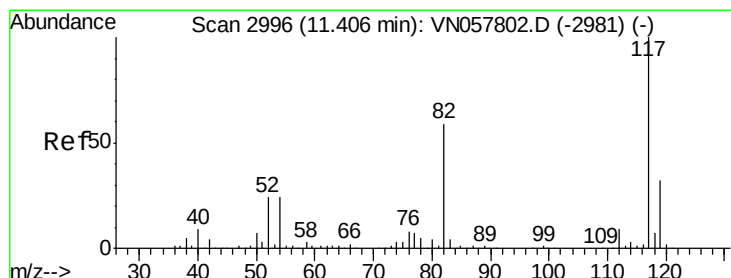
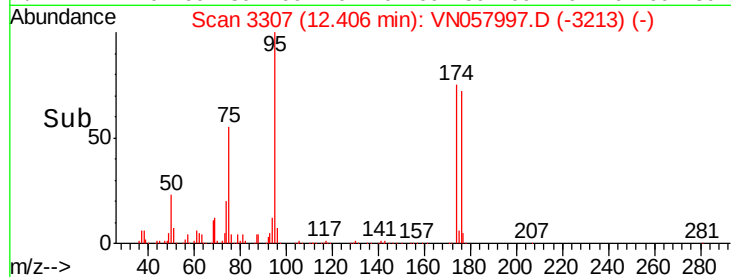
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057997.D

Acq: 13 Sep 2019 1:59

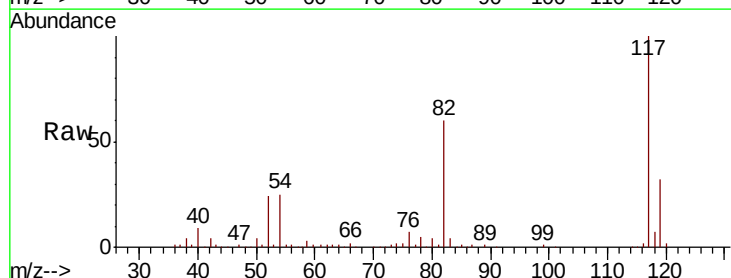
Tgt Ion: 117 Resp: 437196

Ion Ratio Lower Upper

117 100

82 59.9 47.2 70.8

119 31.8 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)

11.41

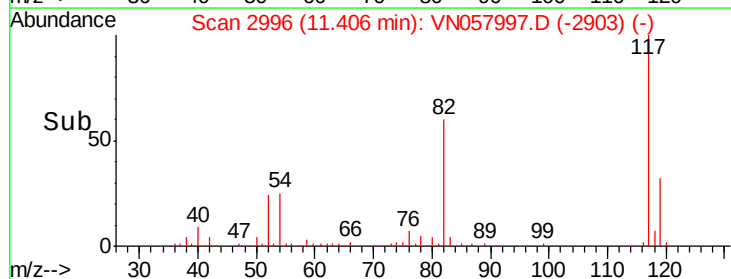
300000

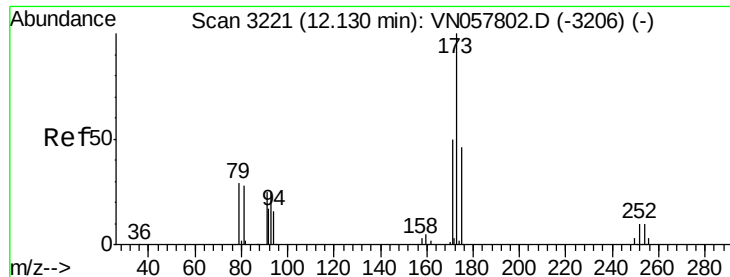
200000

100000

0

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.309 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN057997.D

Acq: 13 Sep 2019 1:59

Instrument :

MSVOA_N

ClientSampleId :

T11-E3-(0)

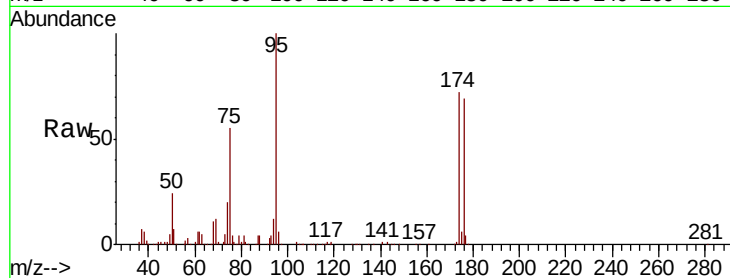
Tgt Ion:173 Resp: 766

Ion Ratio Lower Upper

173 100

175 0.0 23.5 70.6#

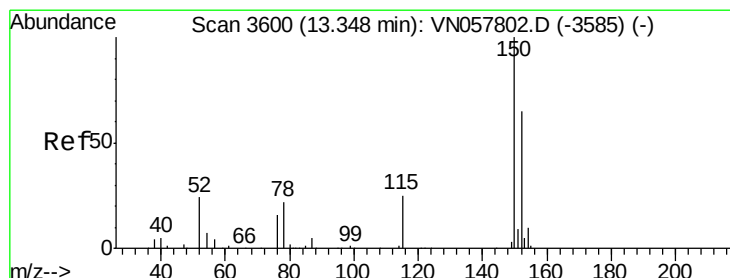
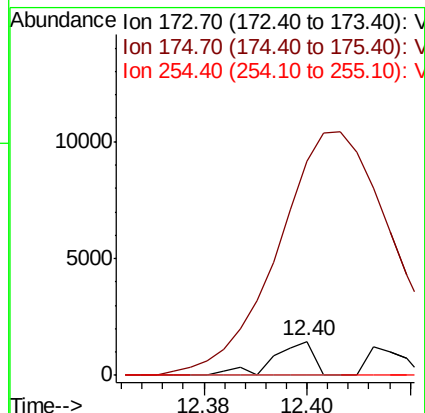
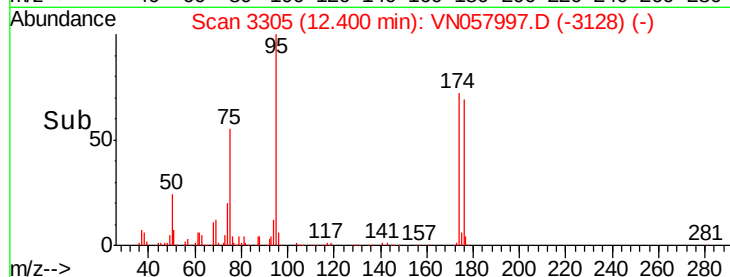
254 0.0 0.1 0.1#



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: VN057997.D

Acq: 13 Sep 2019 1:59

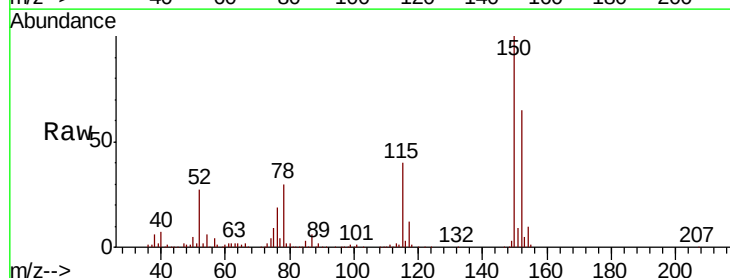
Tgt Ion:152 Resp: 228867

Ion Ratio Lower Upper

152 100

115 60.4 30.3 91.0

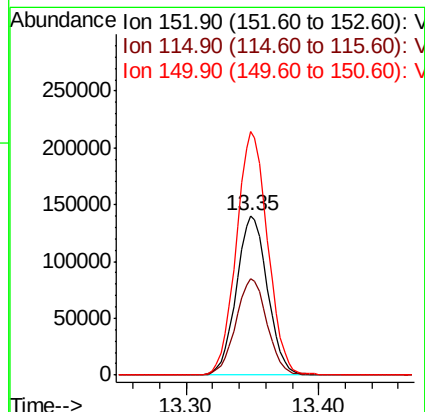
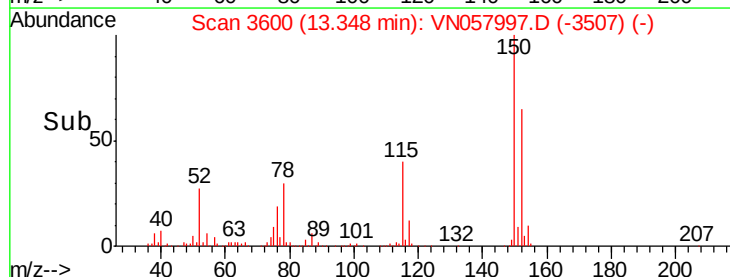
150 153.9 0.0 352.4

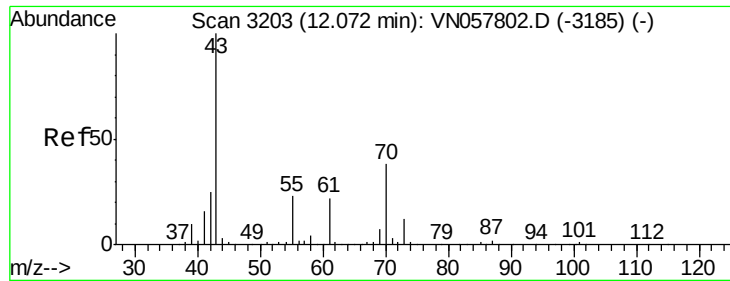


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.355 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057997.D

Acq: 13 Sep 2019 1:59

Instrument :

MSVOA_N

ClientSampleId :

T11-E3-(0)

Tgt Ion: 43 Resp: 2745

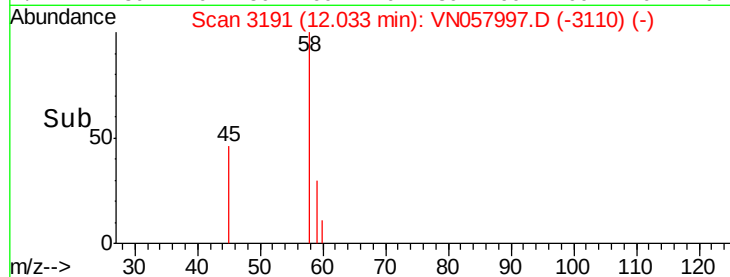
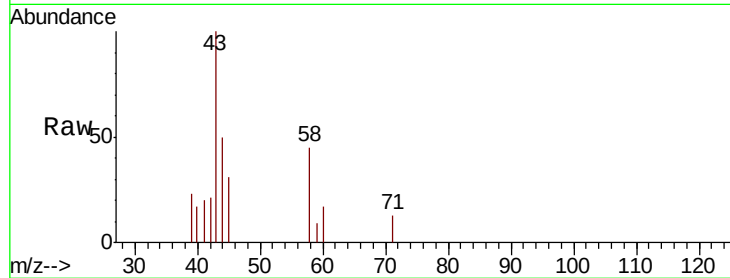
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 2.1 18.6 27.8#

61 0.0 17.4 26.2#

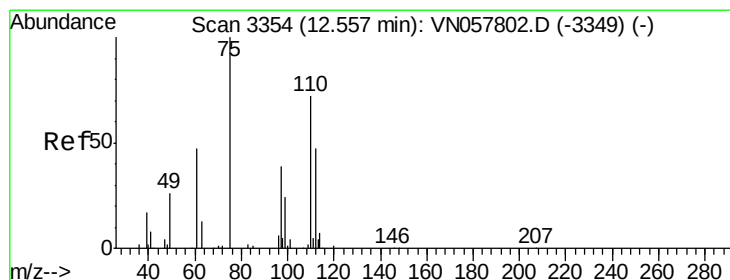
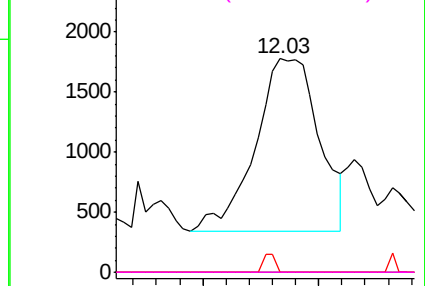


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.562 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN057997.D

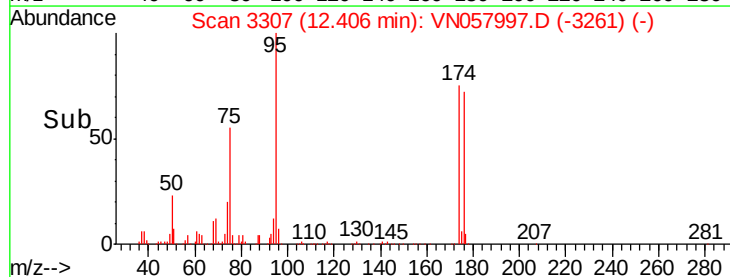
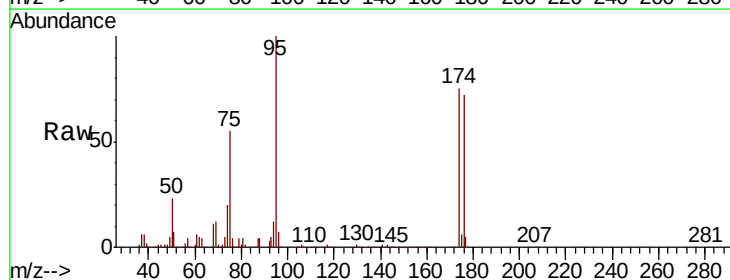
Acq: 13 Sep 2019 1:59

Tgt Ion: 75 Resp: 158233

Ion Ratio Lower Upper

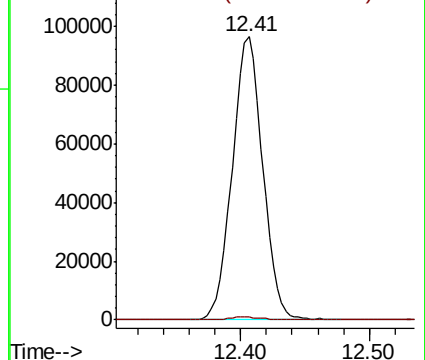
75 100

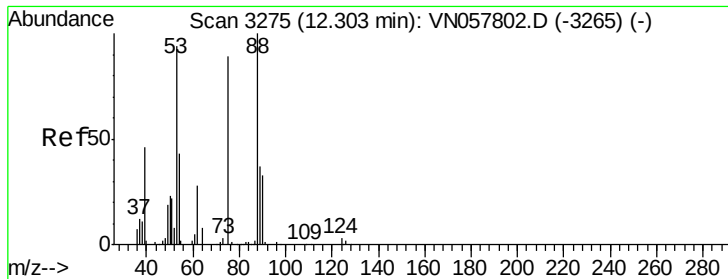
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

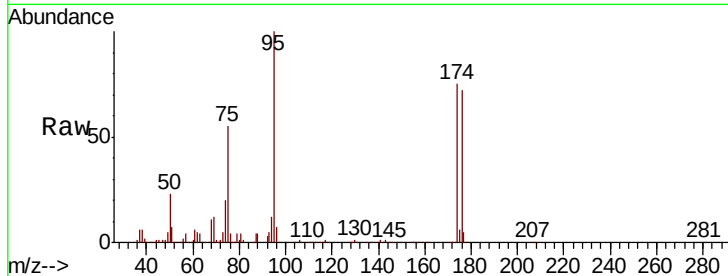




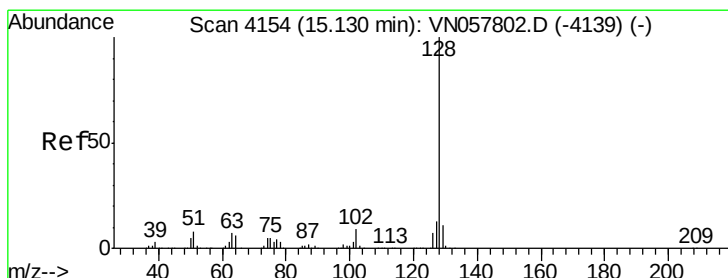
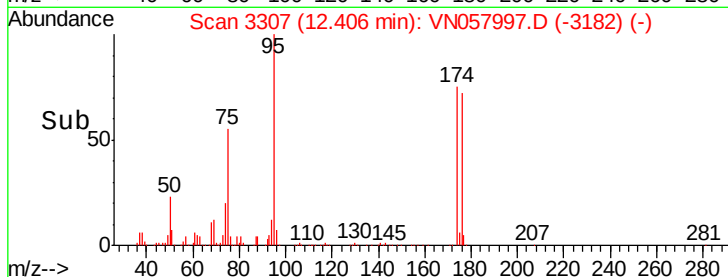
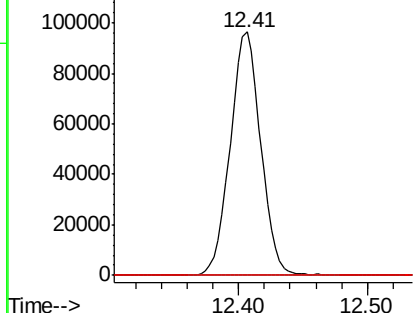
#81
 trans-1,4-Dichloro-2-butene
 Concen: 107.550 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN057997.D
 Acq: 13 Sep 2019 1:59

Instrument :
 MSVOA_N
 ClientSampleId :
 T11-E3-(0)

Tgt Ion: 75 Resp: 158233
 Ion Ratio Lower Upper
 75 100
 53 0.0 88.4 132.6#
 89 0.0 35.3 52.9#

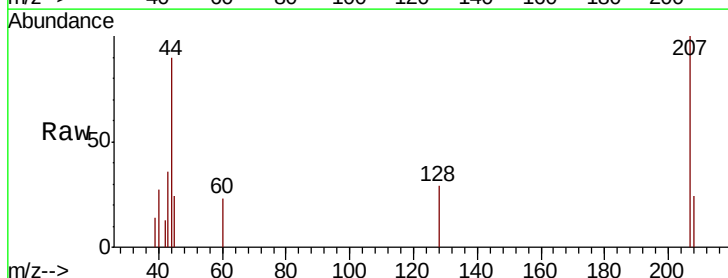


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 53.00 (52.70 to 53.70): VN0
 Ion 88.90 (88.60 to 89.60): VN0



#95
 Naphthalene
 Concen: Below Cal
 RT: 15.14 min Scan# 4157
 Delta R.T. 0.01 min
 Lab File: VN057997.D
 Acq: 13 Sep 2019 1:59

Tgt Ion: 128 Resp: 564
 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

