

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057989.D
 Acq On : 12 Sep 2019 23:02
 Operator : JC/SP
 Sample : K4680-28
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T2-3-(2)

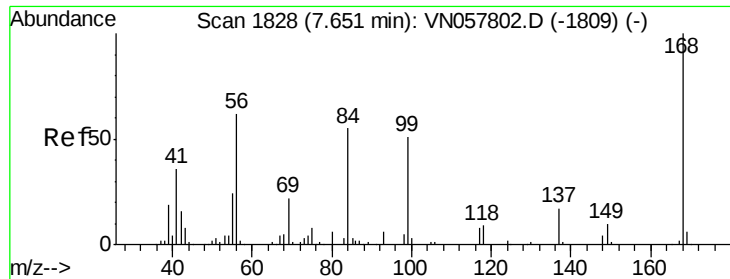
Quant Time: Sep 13 04:52:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	256565	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	466692	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	414229	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	207977	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	325802	62.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	125.40%	
35) Dibromofluoromethane	7.58	113	223033	51.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.56%	
50) Toluene-d8	10.09	98	819469	49.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.00%	
62) 4-Bromofluorobenzene	12.41	95	270170	42.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	61	Below Cal	#	2
11) Tert butyl alcohol	4.75	59	328	0.522	ug/l #	72
16) Acetone	3.81	43	9667	5.675	ug/l #	82
18) Methyl Acetate	4.31	43	6177	1.360	ug/l #	74
20) Methylene Chloride	4.53	84	6276	0.722	ug/l	87
25) 2-Butanone	6.83	43	1532	0.621	ug/l #	49
29) Tetrahydrofuran	7.20	42	494	0.325	ug/l #	39
31) Cyclohexane	7.65	56	6550	Below Cal	#	25
36) 1,1-Dichloropropene	7.65	75	21825	4.032	ug/l #	48
38) Carbon Tetrachloride	7.66	117	24759	5.010	ug/l #	16
43) Isopropyl Acetate	8.16	43	144717	15.389	ug/l #	80
45) 1,2-Dichloropropane	9.26	63	1758	0.371	ug/l #	44
48) Methyl methacrylate	9.17	41	5270	1.105	ug/l #	13
49) 1,4-Dioxane	9.26	88	150	1.859	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	8032	1.443	ug/l	90
54) cis-1,3-Dichloropropene	9.90	75	42029	6.318	ug/l #	69
56) Ethyl methacrylate	10.54	69	2212	0.338	ug/l #	1
57) 1,3-Dichloropropane	10.77	76	6524	0.871	ug/l #	43
59) 2-Hexanone	10.76	43	101826	24.412	ug/l #	53
74) N-amyl acetate	12.03	43	5759	0.820	ug/l #	49
76) 1,2,3-Trichloropropane	12.41	75	152244	32.359	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	152244	113.873	ug/l #	6
95) Naphthalene	15.14	128	855	Below Cal	#	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057989.D

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Instrument :

MSVOA_N

ClientSampled :

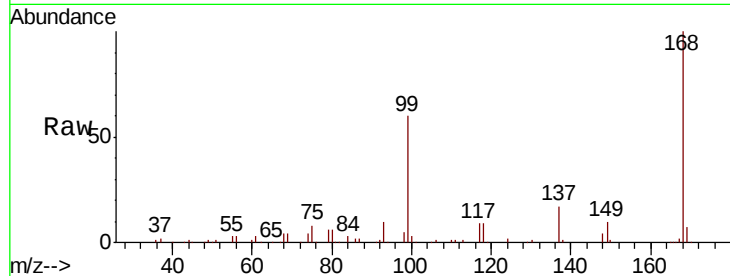
T2-3-(2)

Tgt Ion:168 Resp: 256565

Ion Ratio Lower Upper

168 100

99 60.5 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

120000

100000

80000

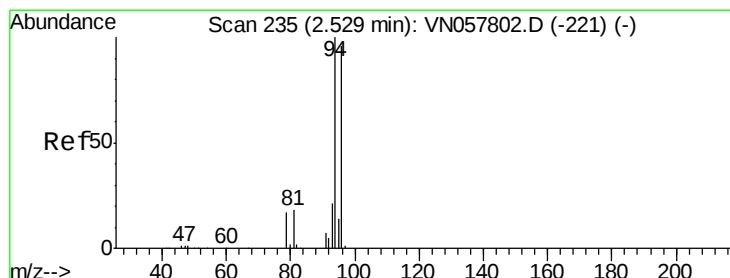
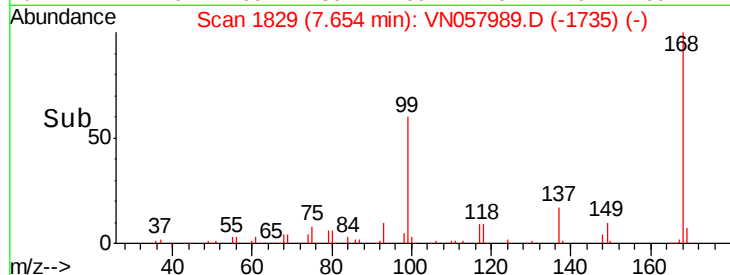
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 241

Delta R.T. 0.02 min

Lab File: VN057989.D

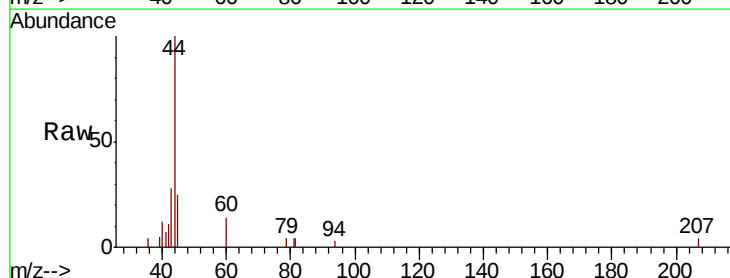
Acq: 12 Sep 2019 23:02

Tgt Ion: 94 Resp: 61

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

200

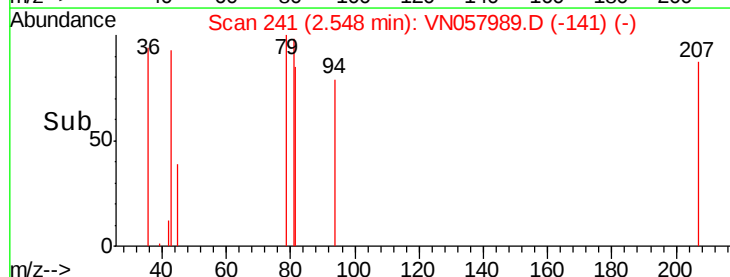
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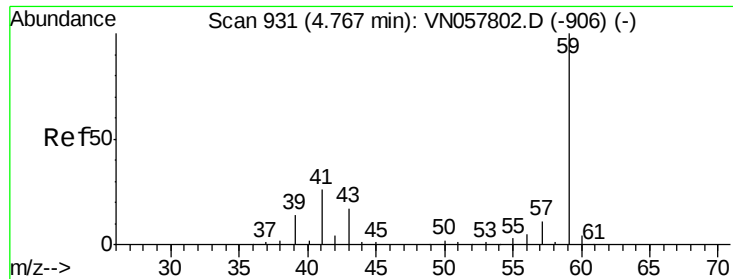
100

50

0

Time-->

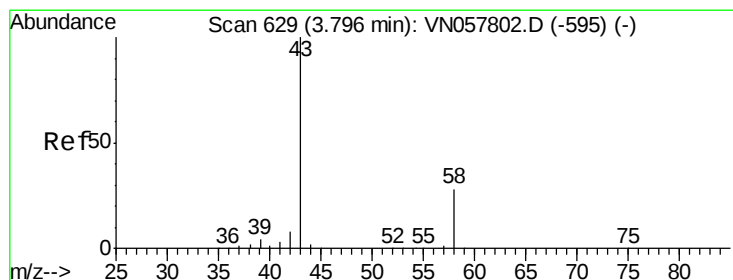
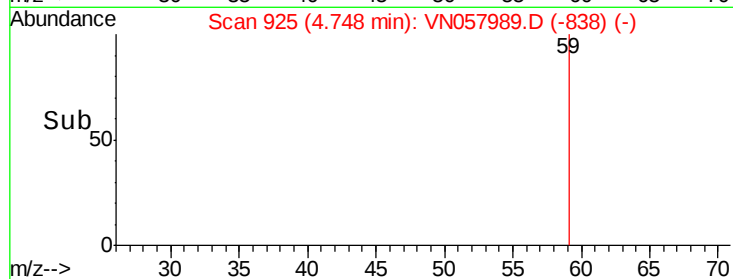
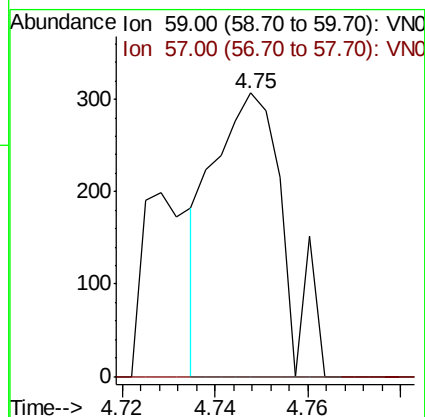
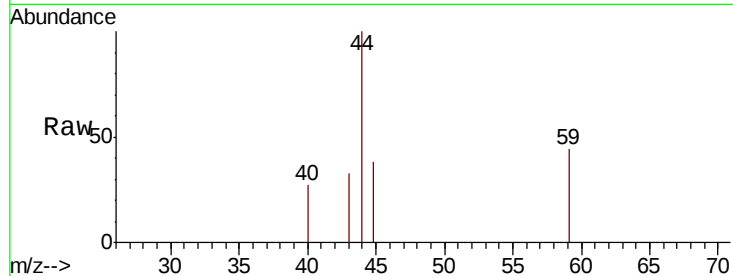




#11
Tert butyl alcohol
Concen: 0.522 ug/l
RT: 4.75 min Scan# 925
Delta R.T. -0.02 min
Lab File: VN057989.D
Acq: 12 Sep 2019 23:02

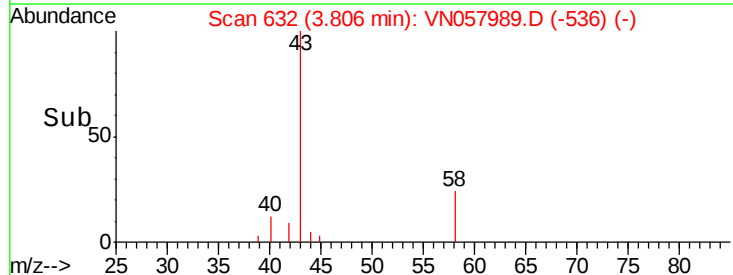
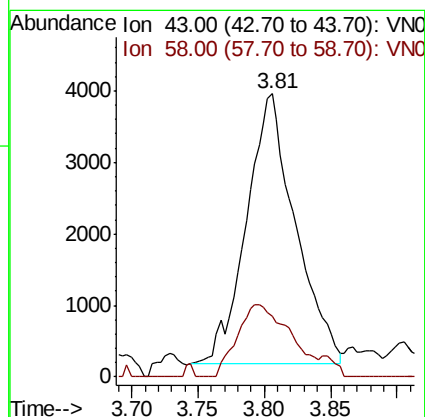
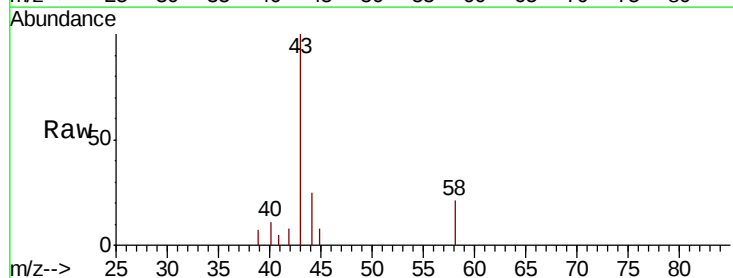
Instrument :
MSVOA_N
ClientSampled :
T2-3-(2)

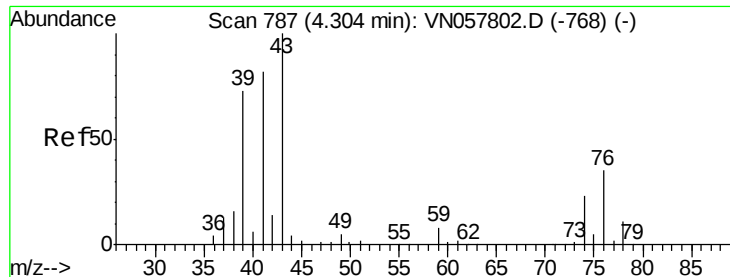
Tgt Ion: 59 Resp: 328
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#16
Acetone
Concen: 5.675 ug/l
RT: 3.81 min Scan# 632
Delta R.T. 0.01 min
Lab File: VN057989.D
Acq: 12 Sep 2019 23:02

Tgt Ion: 43 Resp: 9667
Ion Ratio Lower Upper
43 100
58 18.4 22.2 33.2#

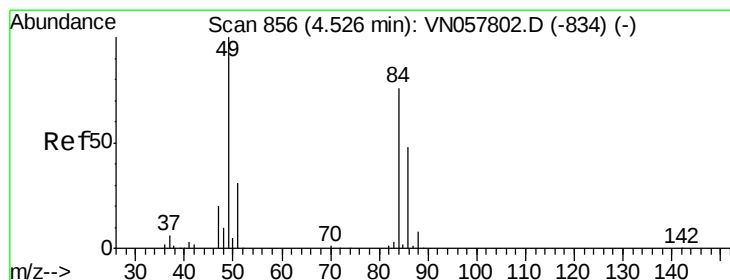
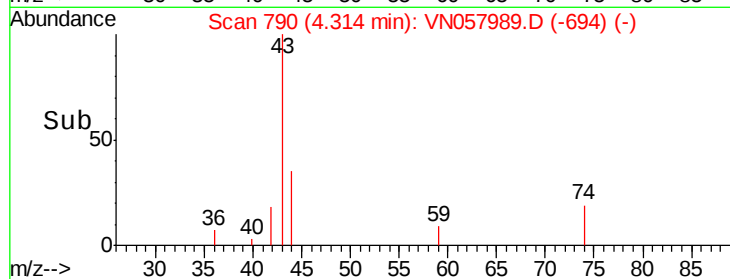
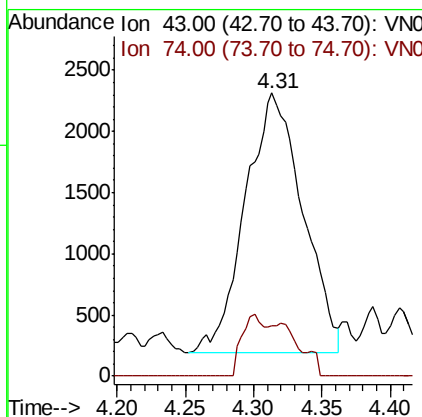
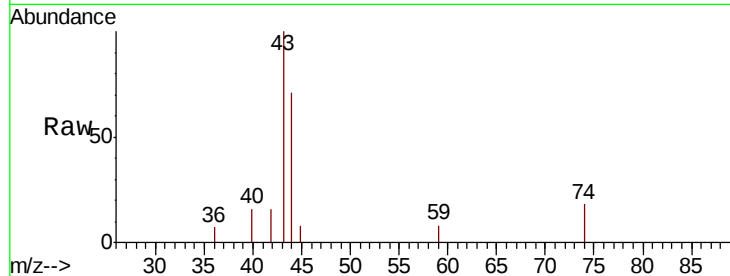




#18
Methyl Acetate
Concen: 1.360 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.01 min
Lab File: VN057989.D
Acq: 12 Sep 2019 23:02

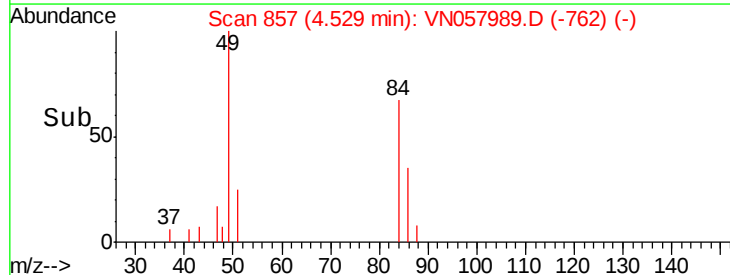
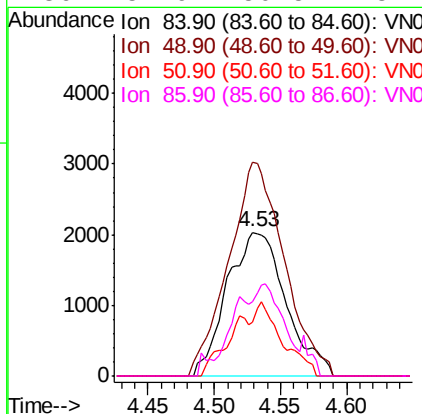
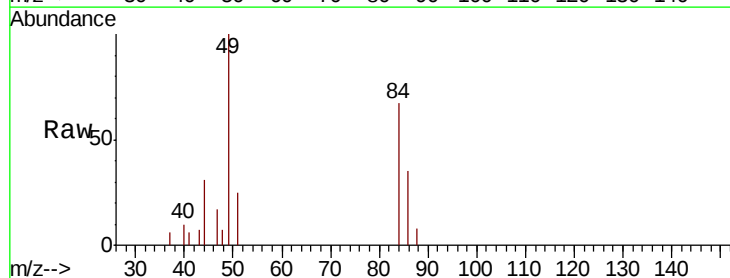
Instrument :
MSVOA_N
ClientSampled :
T2-3-(2)

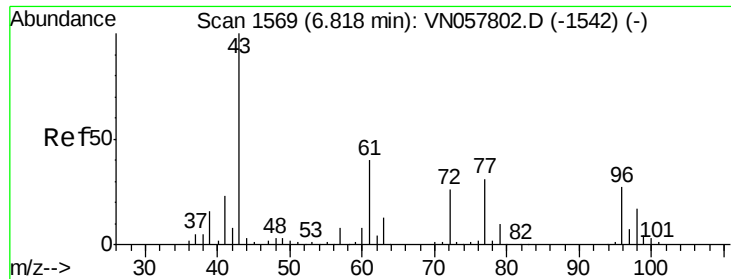
Tgt Ion: 43 Resp: 6177
Ion Ratio Lower Upper
43 100
74 10.0 17.9 26.9#



#20
Methylene Chloride
Concen: 0.722 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057989.D
Acq: 12 Sep 2019 23:02

Tgt Ion: 84 Resp: 6276
Ion Ratio Lower Upper
84 100
49 148.8 104.8 157.2
51 37.7 33.0 49.4
86 51.9 50.5 75.7

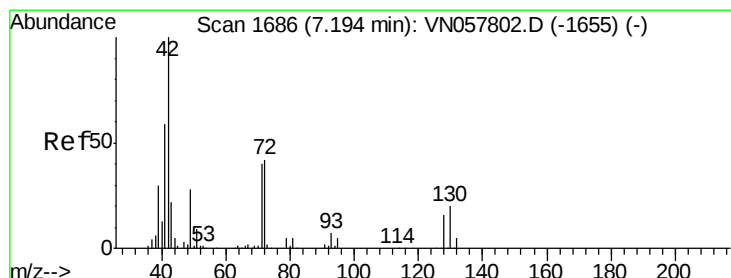
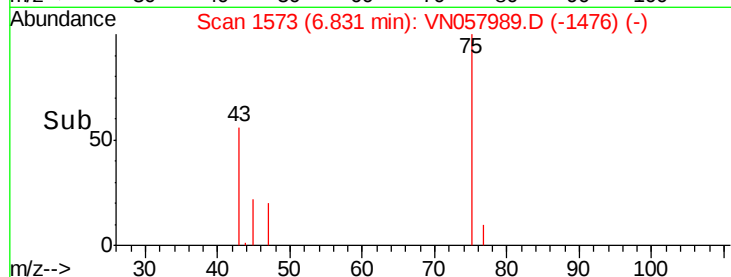
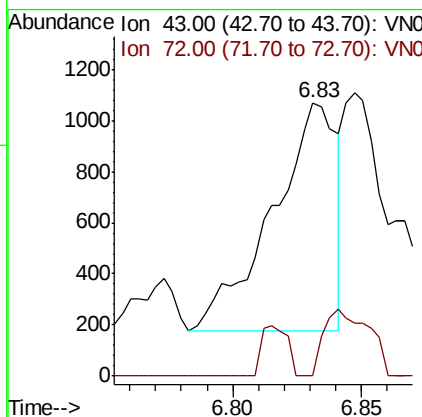
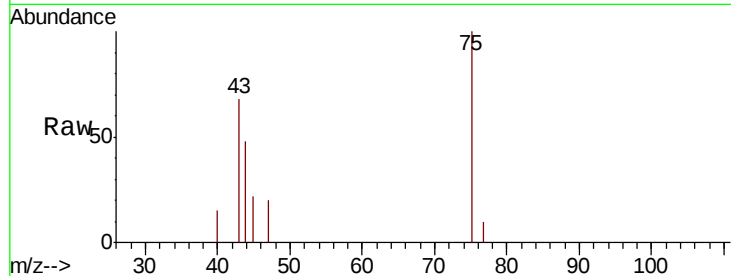




#25
2-Butanone
Concen: 0.621 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN057989.D
Acq: 12 Sep 2019 23:02

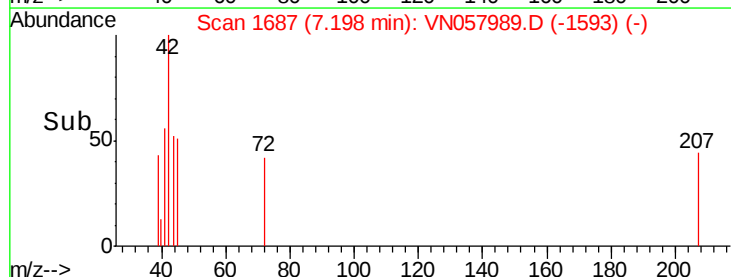
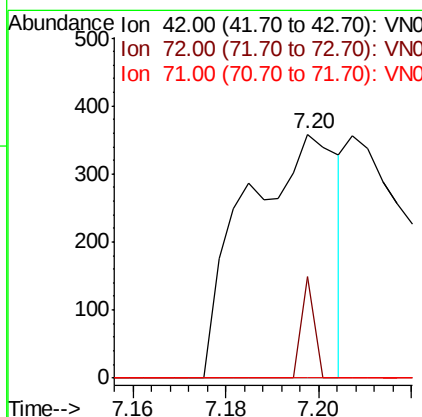
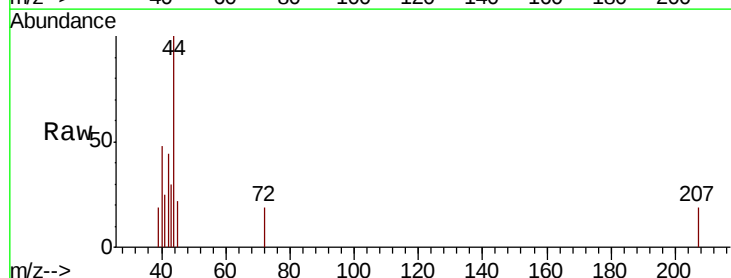
Instrument :
MSVOA_N
ClientSampled :
T2-3-(2)

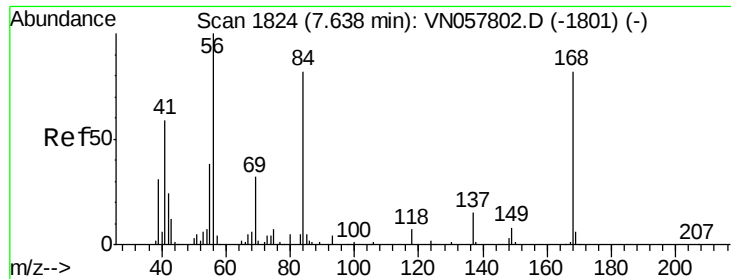
Tgt Ion: 43 Resp: 1532
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#



#29
Tetrahydrofuran
Concen: 0.325 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN057989.D
Acq: 12 Sep 2019 23:02

Tgt Ion: 42 Resp: 494
Ion Ratio Lower Upper
42 100
72 5.9 33.7 50.5#
71 0.0 31.9 47.9#

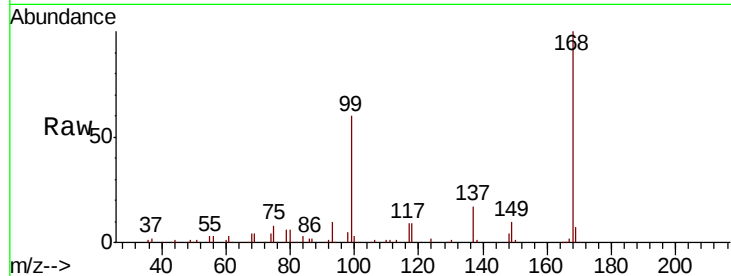




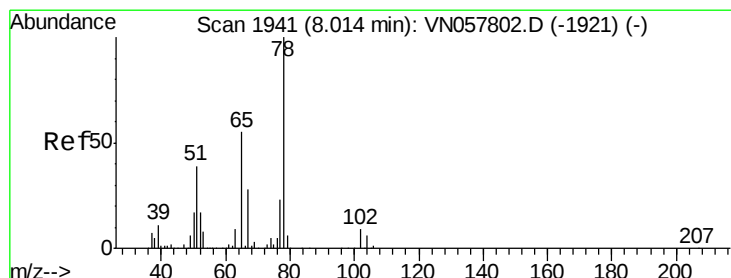
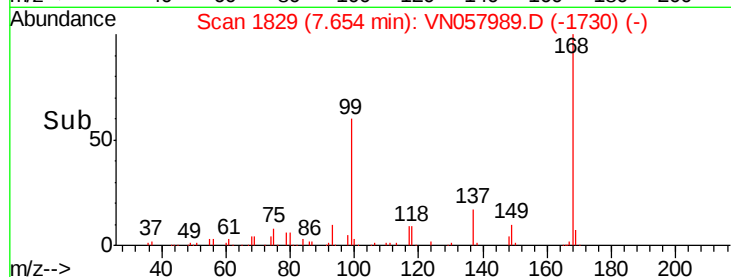
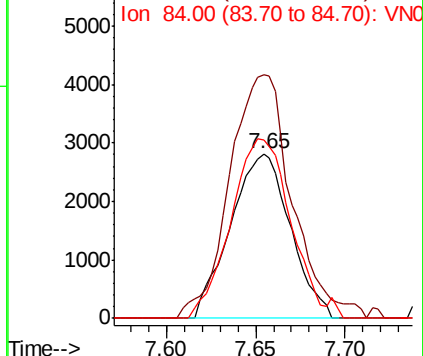
#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1829
Delta R.T. 0.02 min
Lab File: VN057989.D
Acq: 12 Sep 2019 23:02

Instrument :
MSVOA_N
ClientSampled :
T2-3-(2)

Tgt Ion: 56 Resp: 6550
Ion Ratio Lower Upper
56 100
69 138.6 25.9 38.9#
84 108.3 65.6 98.4#

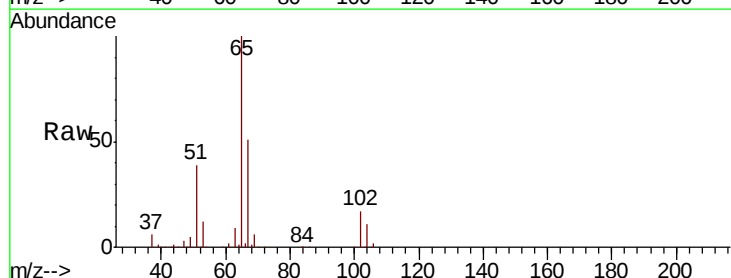


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

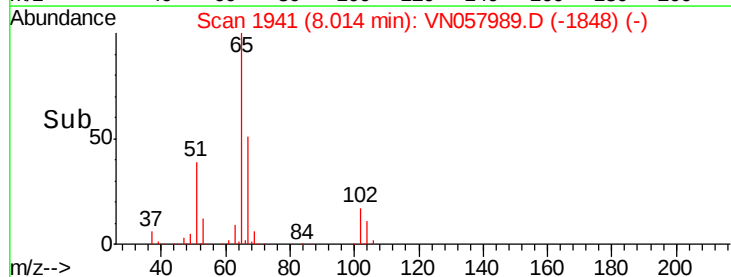
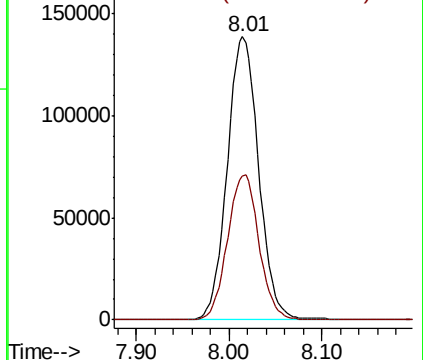


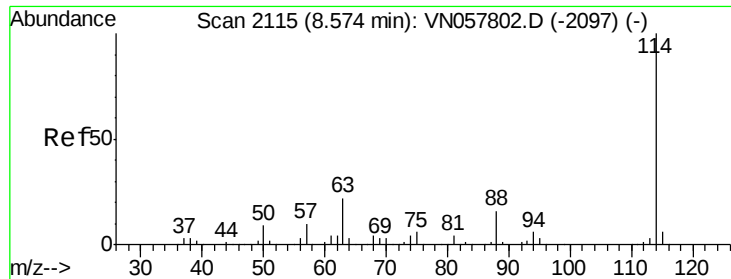
#33
1,2-Dichloroethane-d4
Concen: 62.696 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057989.D
Acq: 12 Sep 2019 23:02

Tgt Ion: 65 Resp: 325802
Ion Ratio Lower Upper
65 100
67 51.3 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

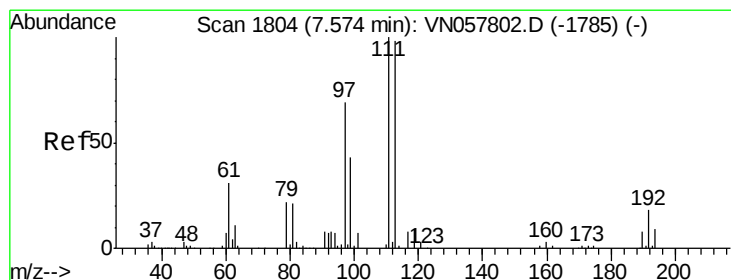
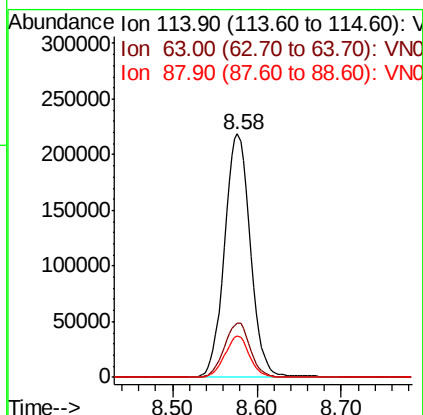
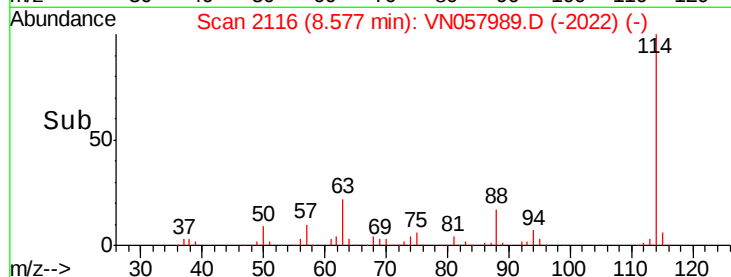
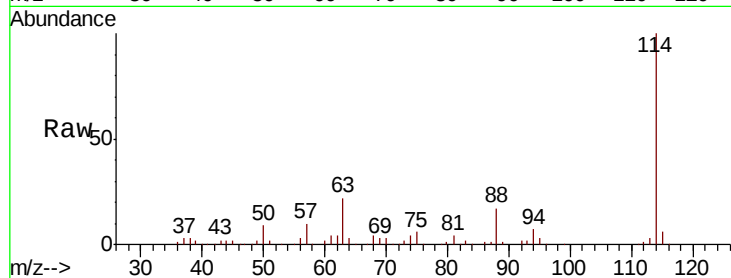




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057989.D
 Acq: 12 Sep 2019 23:02

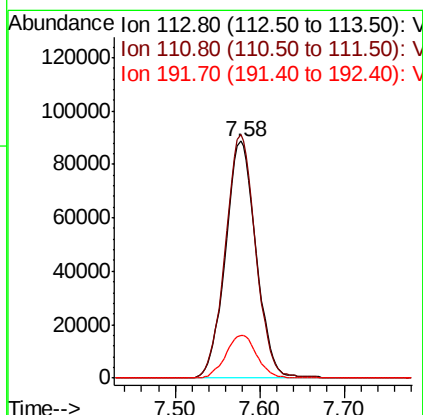
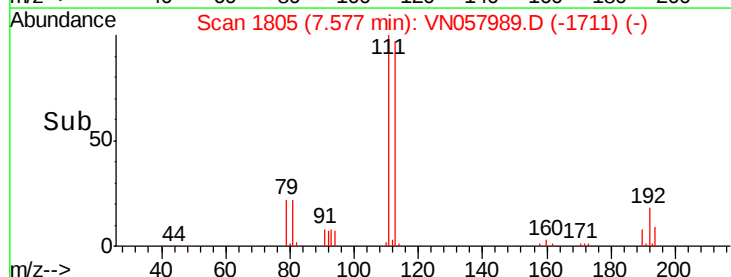
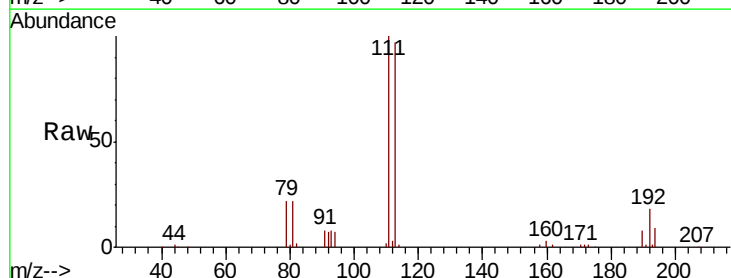
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 ClientSampled :
 T2-3-(2)

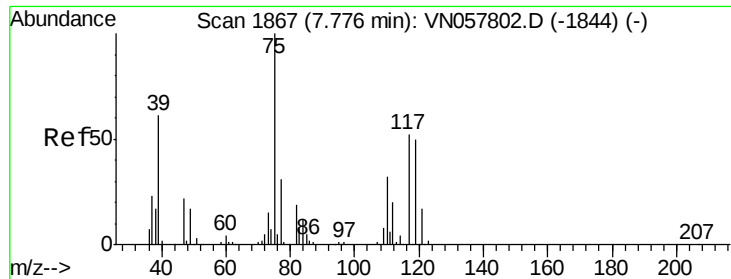
Tgt Ion:114 Resp: 466692
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 44.0
 88 16.8 0.0 31.4



#35
 Dibromofluoromethane
 Concen: 51.779 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057989.D
 Acq: 12 Sep 2019 23:02

Tgt Ion:113 Resp: 223033
 Ion Ratio Lower Upper
 113 100
 111 102.0 81.3 121.9
 192 18.4 14.6 22.0

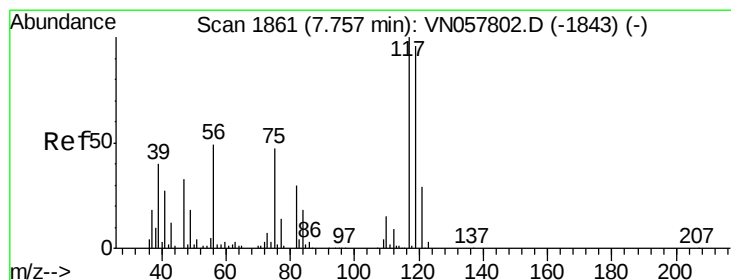
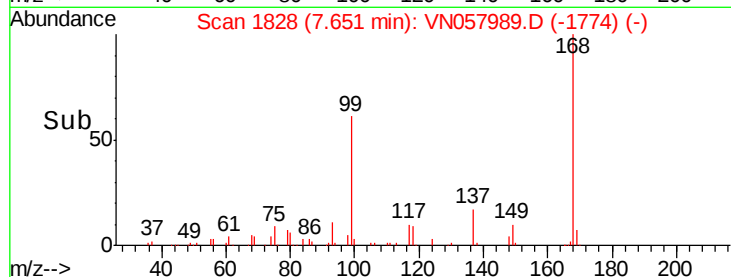
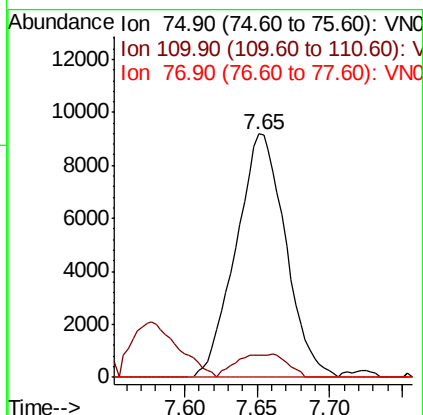
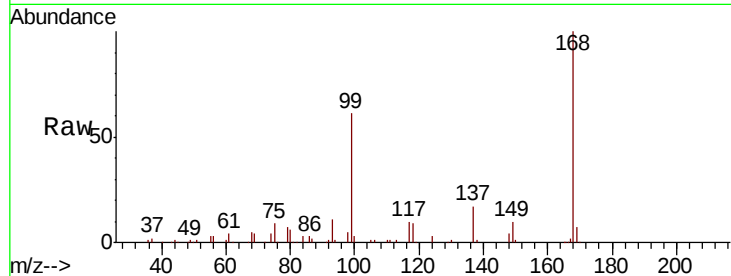




#36
 1,1-Dichloropropene
 Concen: 4.032 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057989.D
 Acq: 12 Sep 2019 23:02

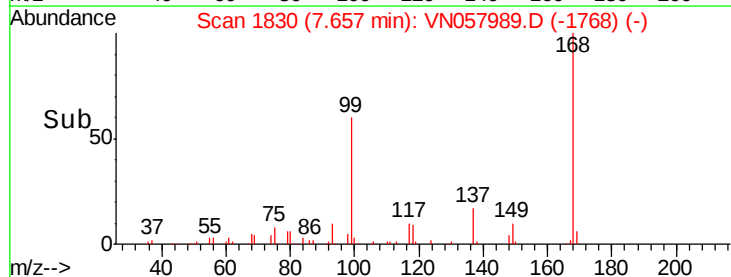
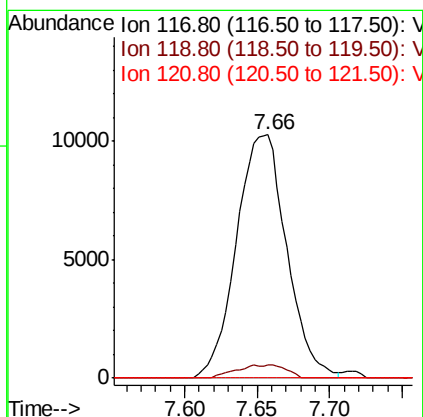
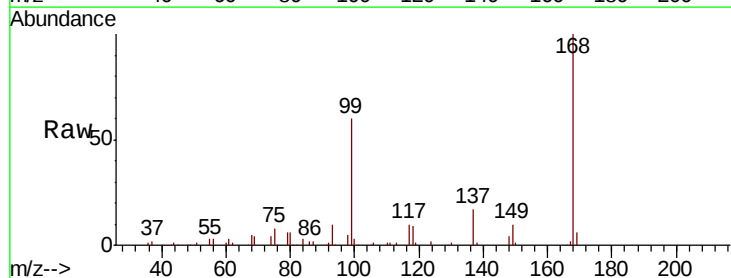
Instrument :
 MSVOA_N
 ClientSampled :
 T2-3-(2)

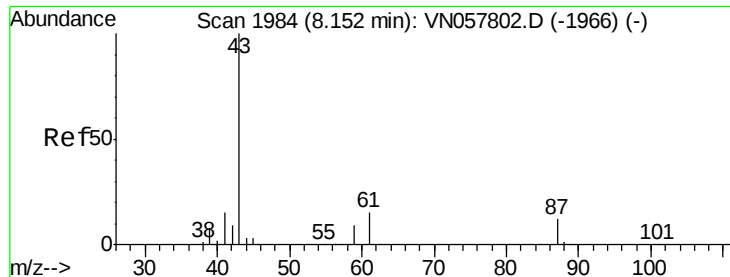
Tgt Ion	Ratio	Lower	Upper
75	100		
110	5.6	16.3	48.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.010 ug/l
 RT: 7.66 min Scan# 1830
 Delta R.T. -0.10 min
 Lab File: VN057989.D
 Acq: 12 Sep 2019 23:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.9	115.3#
121	0.0	23.4	35.2#





#43

Isopropyl Acetate

Concen: 15.389 ug/l

RT: 8.16 min Scan# 1986

Delta R.T. 0.01 min

Lab File: VN057989.D

Acq: 12 Sep 2019 23:02

Instrument :

MSVOA_N

ClientSampleId :

T2-3-(2)

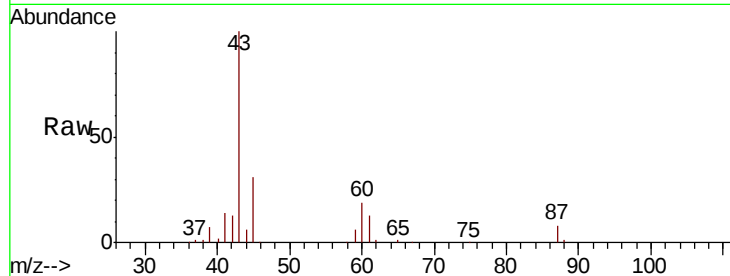
Tgt Ion: 43 Resp: 144717

Ion Ratio Lower Upper

43 100

61 12.6 20.1 30.1#

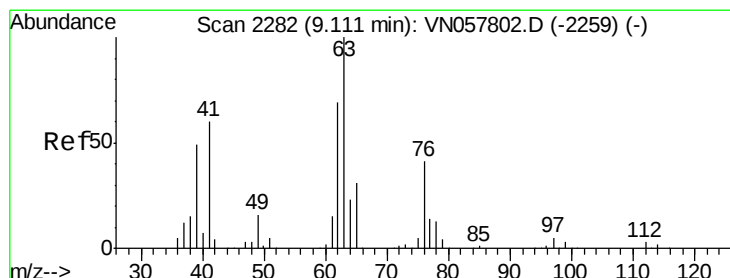
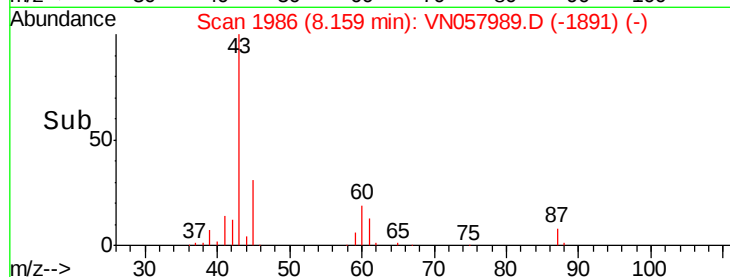
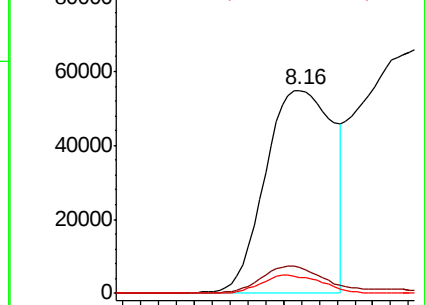
87 8.1 9.5 14.3#



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN057802.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN057802.D (-1966) (-)



#45

1,2-Dichloropropane

Concen: 0.371 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.14 min

Lab File: VN057989.D

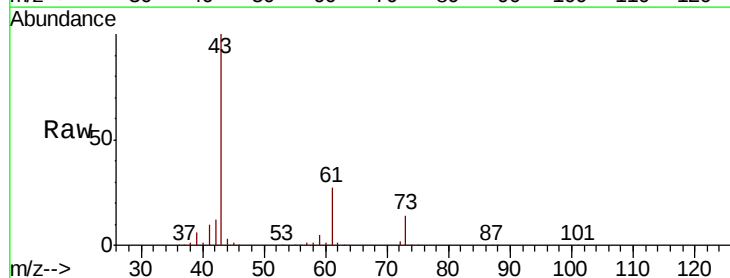
Acq: 12 Sep 2019 23:02

Tgt Ion: 63 Resp: 1758

Ion Ratio Lower Upper

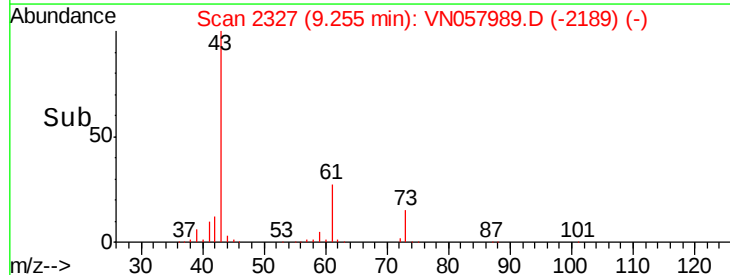
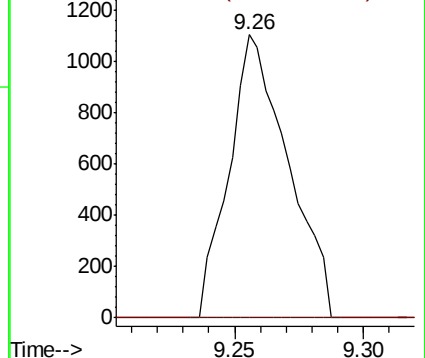
63 100

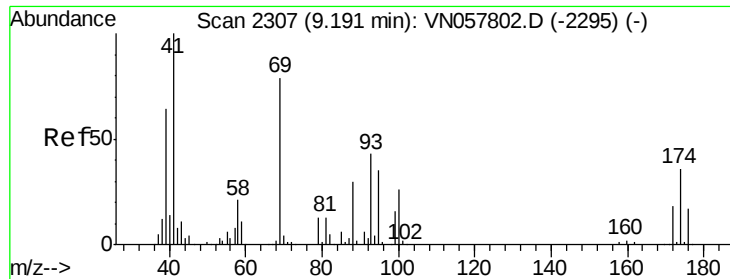
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN057802.D (-2259) (-)

Ion 64.90 (64.60 to 65.60): VN057802.D (-2259) (-)

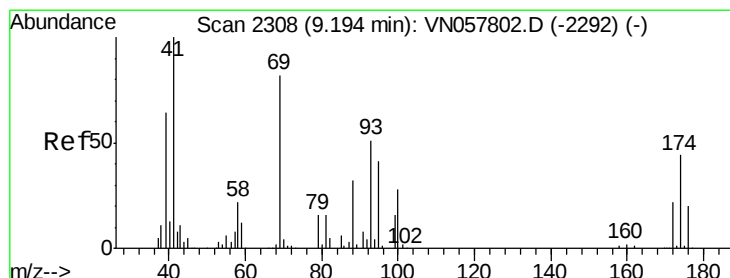
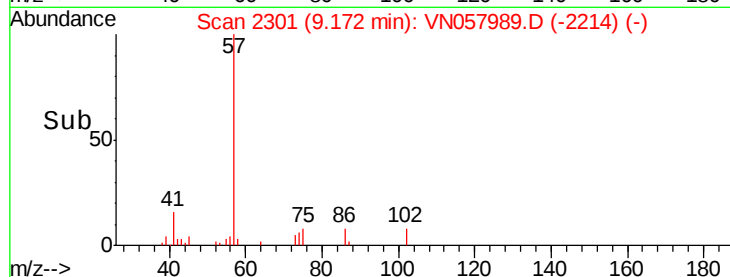
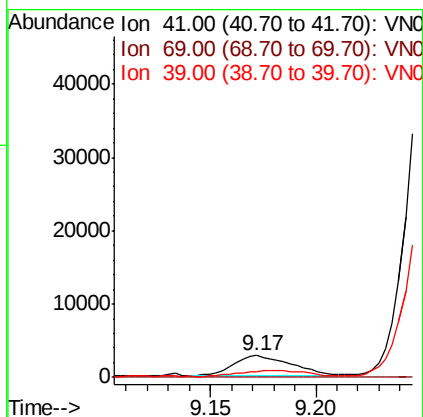
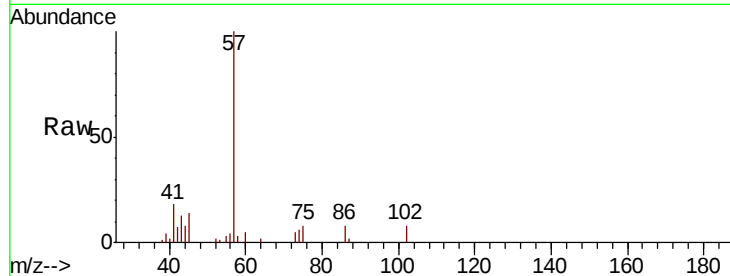




#48
Methyl methacrylate
Concen: 1.105 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN057989.D
Acq: 12 Sep 2019 23:02

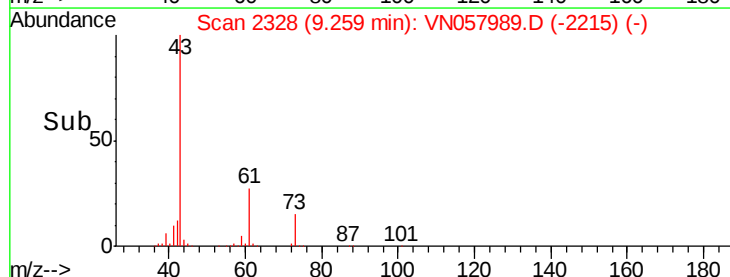
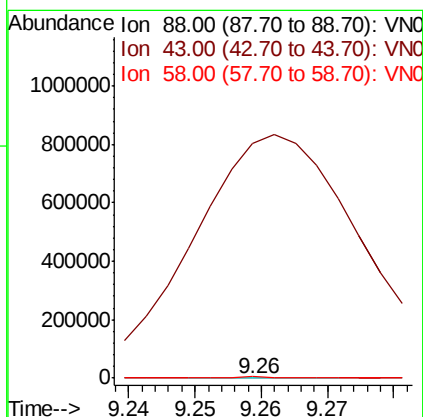
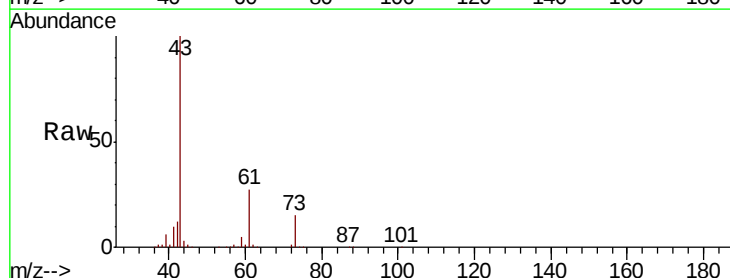
Instrument :
MSVOA_N
ClientSampleId :
T2-3-(2)

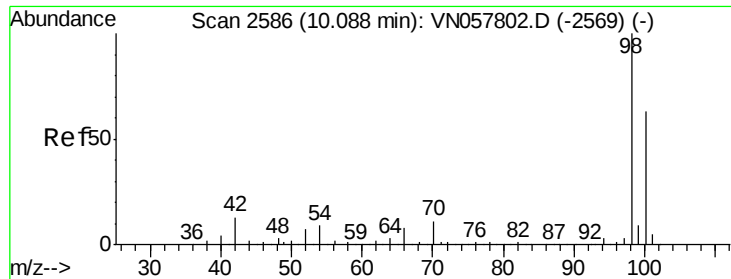
Tgt Ion: 41 Resp: 5270
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#49
1,4-Dioxane
Concen: 1.859 ug/l
RT: 9.26 min Scan# 2328
Delta R.T. 0.06 min
Lab File: VN057989.D
Acq: 12 Sep 2019 23:02

Tgt Ion: 88 Resp: 150
Ion Ratio Lower Upper
88 100
43 1015248.0 28.5 42.7#
58 4859.3 55.8 83.6#





#50

Toluene-d8

Concen: 49.001 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057989.D

Acq: 12 Sep 2019 23:02

Instrument :

MSVOA_N

ClientSampleId :

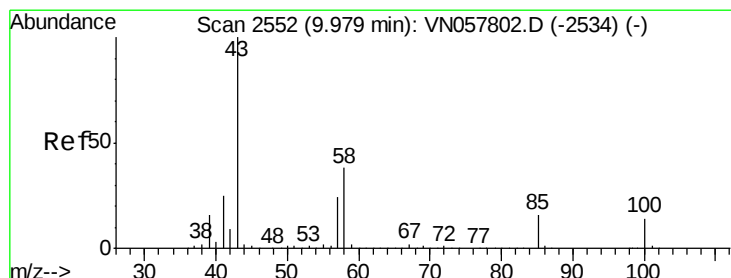
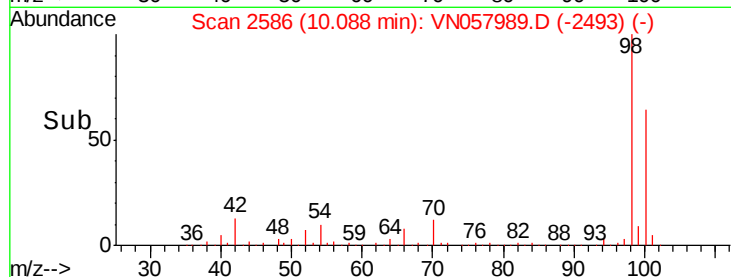
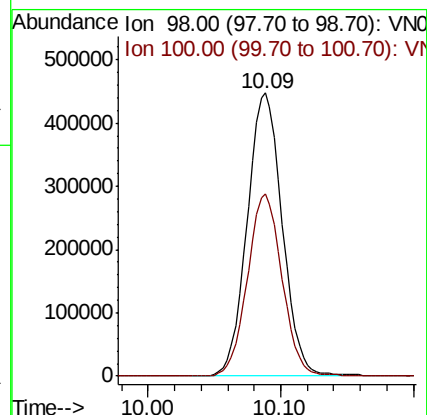
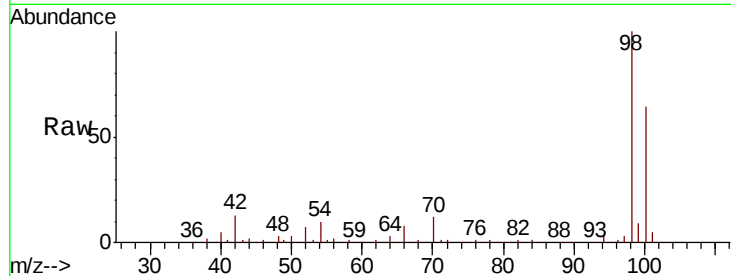
T2-3-(2)

Tgt Ion: 98 Resp: 819469

Ion Ratio Lower Upper

98 100

100 63.7 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 1.443 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057989.D

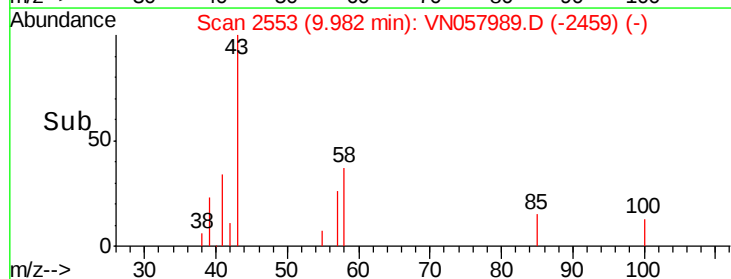
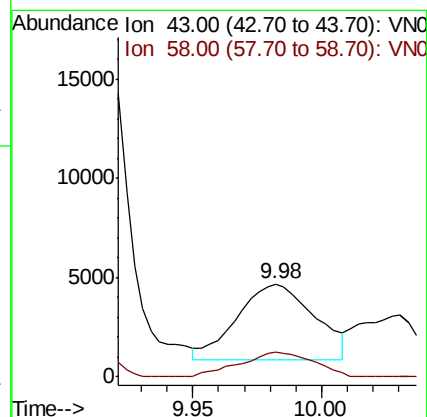
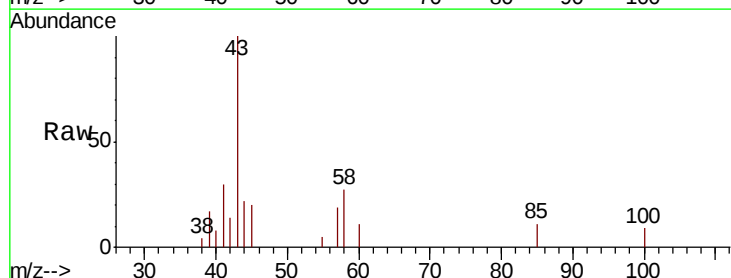
Acq: 12 Sep 2019 23:02

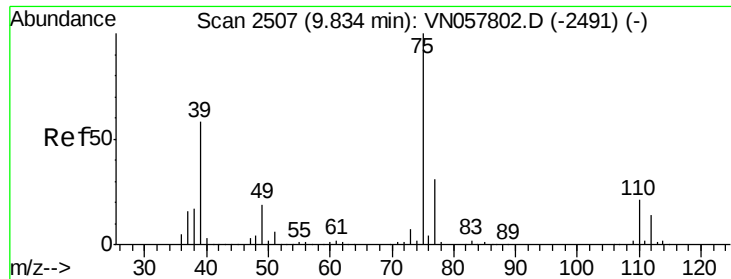
Tgt Ion: 43 Resp: 8032

Ion Ratio Lower Upper

43 100

58 31.0 29.8 44.6





#54

cis-1,3-Dichloropropene

Concen: 6.318 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057989.D

Acq: 12 Sep 2019 23:02

Instrument :

MSVOA_N

ClientSampleId :

T2-3-(2)

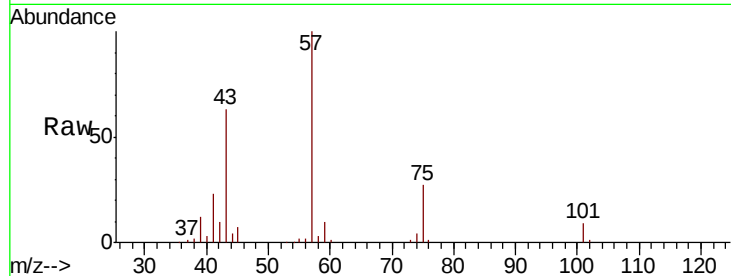
Tgt Ion: 75 Resp: 42029

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 44.5 46.2 69.4#

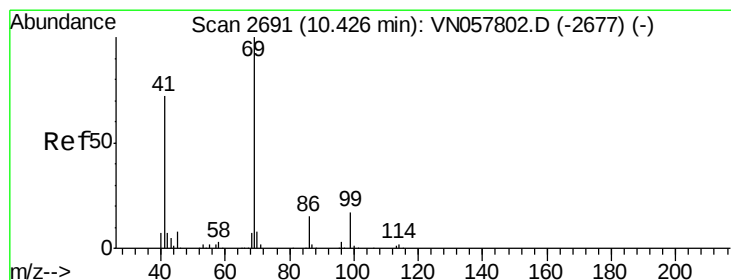
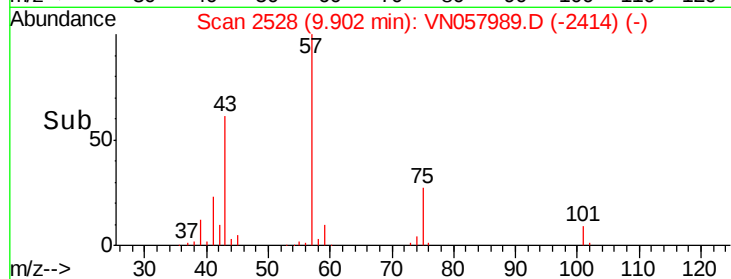
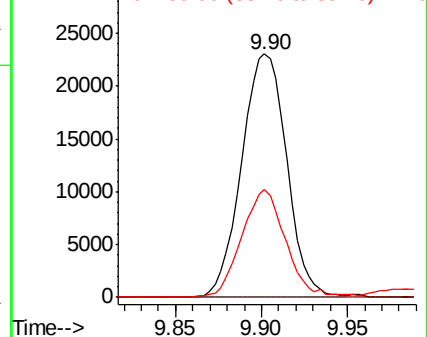


Abundance

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



#56

Ethyl methacrylate

Concen: 0.338 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN057989.D

Acq: 12 Sep 2019 23:02

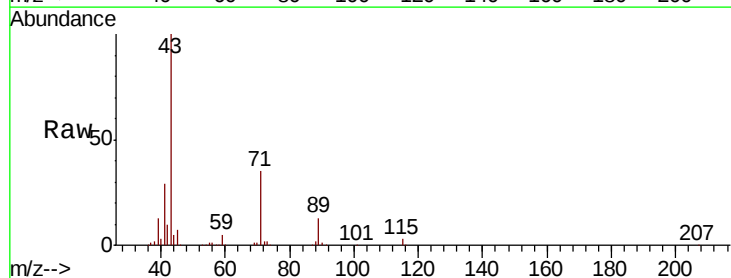
Tgt Ion: 69 Resp: 2212

Ion Ratio Lower Upper

69 100

41 4720.4 56.7 85.1#

39 2210.0 36.3 54.5#

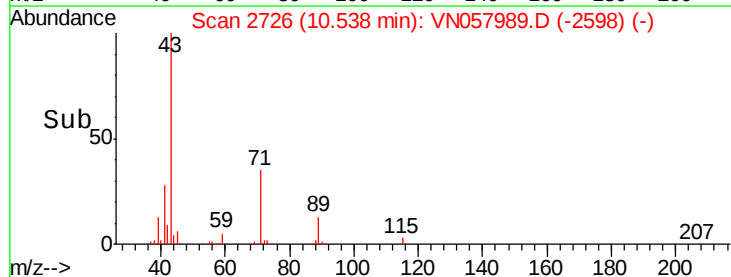
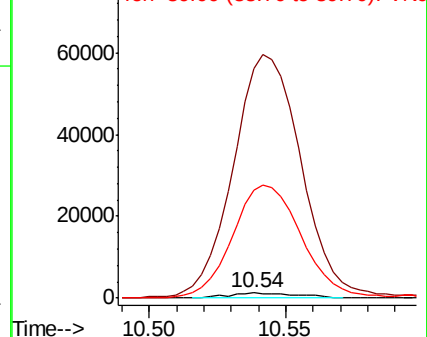


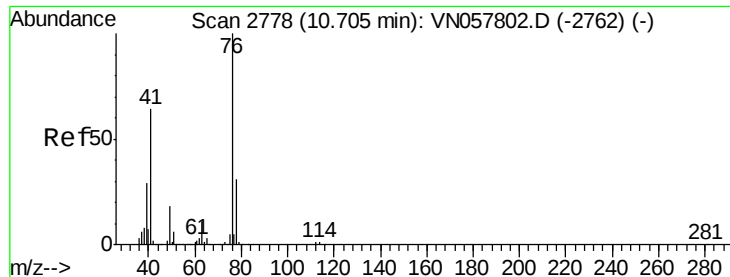
Abundance

Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

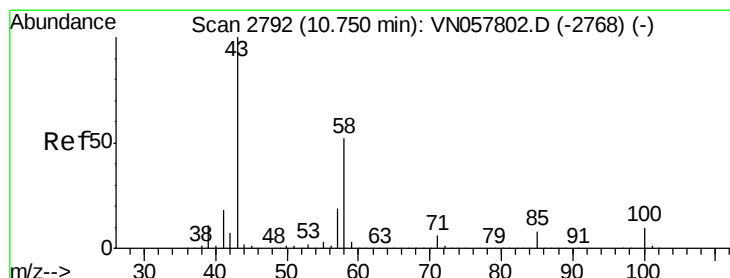
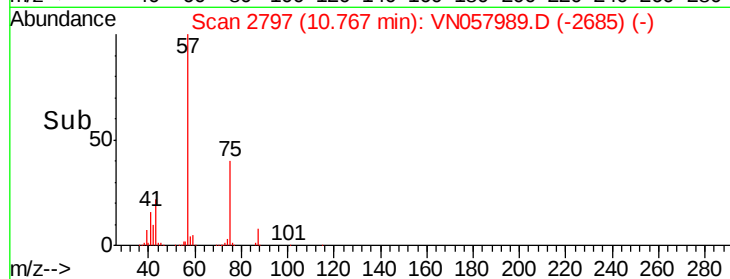
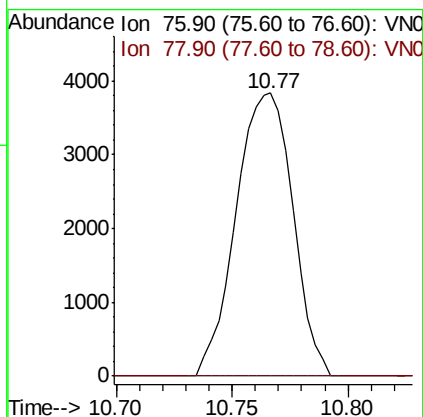
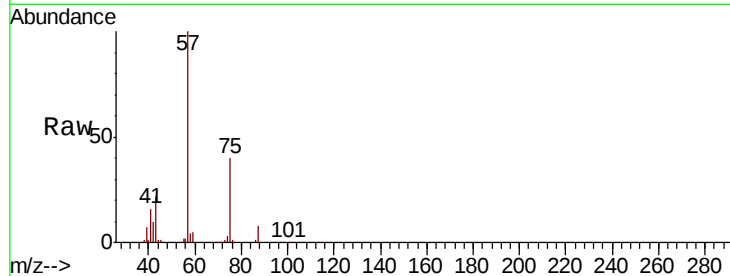




#57
 1,3-Dichloropropane
 Concen: 0.871 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN057989.D
 Acq: 12 Sep 2019 23:02

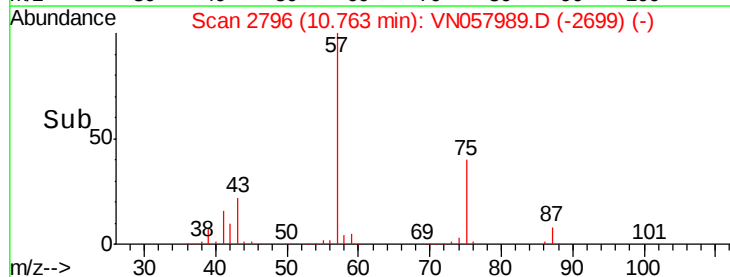
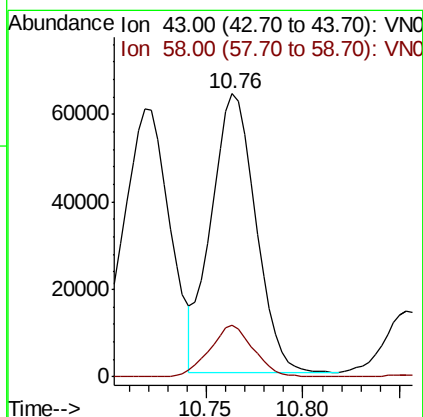
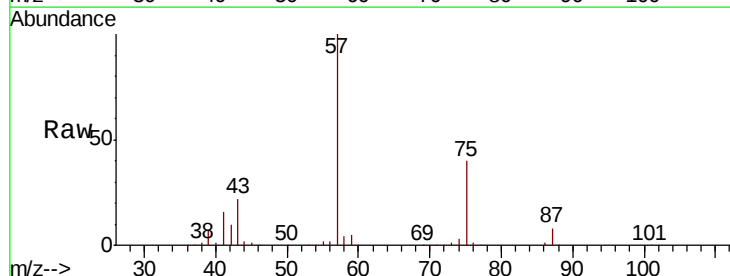
Instrument :
 MSVOA_N
 ClientSampled :
 T2-3-(2)

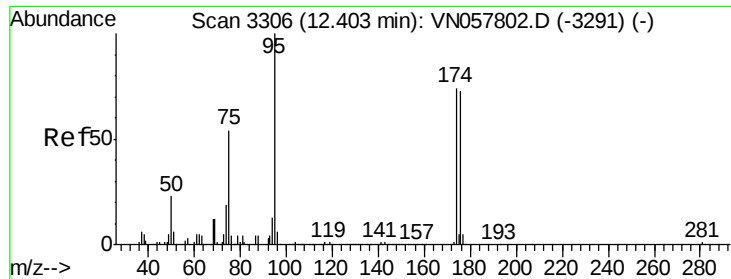
Tgt Ion: 76 Resp: 6524
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 24.412 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057989.D
 Acq: 12 Sep 2019 23:02

Tgt Ion: 43 Resp: 101826
 Ion Ratio Lower Upper
 43 100
 58 18.6 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 42.392 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN057989.D

Acq: 12 Sep 2019 23:02

Instrument :

MSVOA_N

ClientSampled :

T2-3-(2)

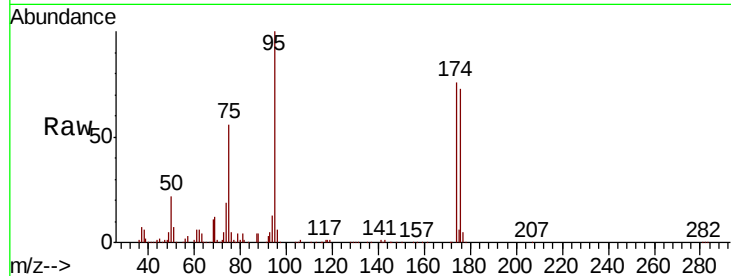
Tgt Ion: 95 Resp: 270170

Ion Ratio Lower Upper

95 100

174 76.0 0.0 150.2

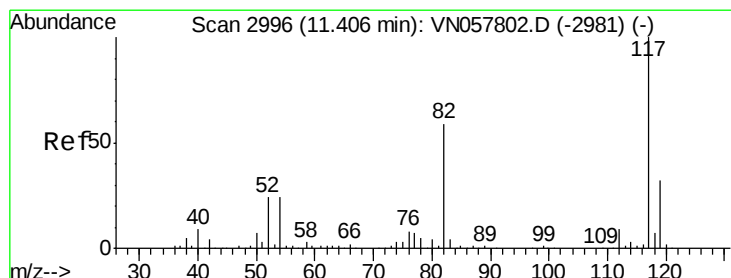
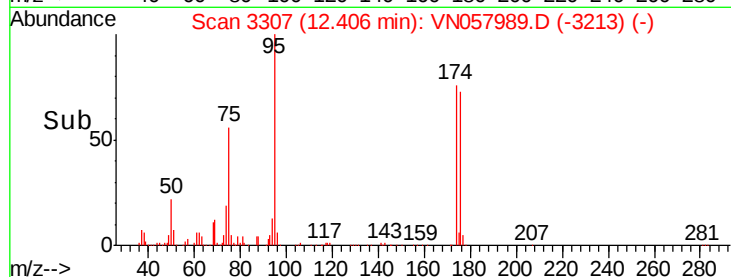
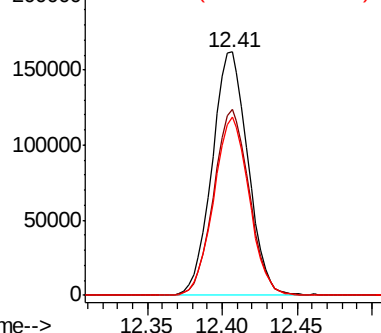
176 72.7 0.0 146.0



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) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN057989.D

Acq: 12 Sep 2019 23:02

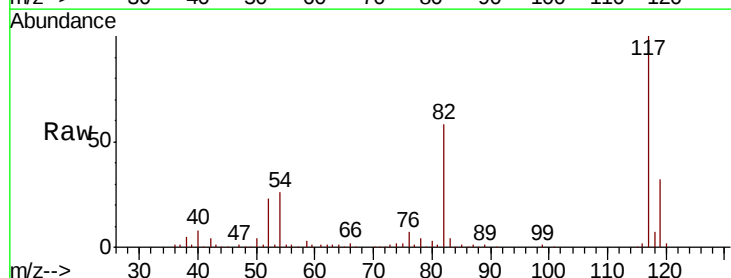
Tgt Ion: 117 Resp: 414229

Ion Ratio Lower Upper

117 100

82 58.4 47.2 70.8

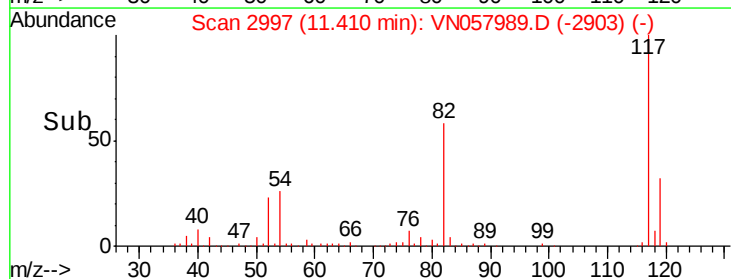
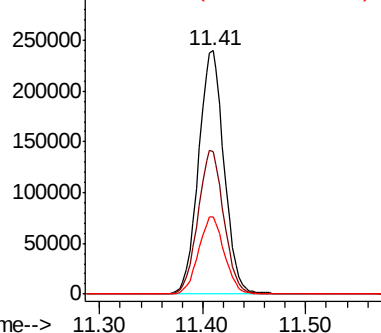
119 31.9 25.3 37.9

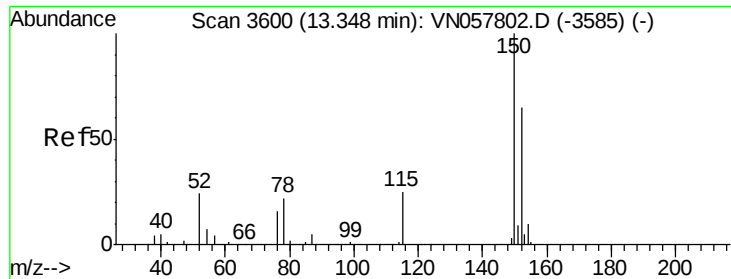


Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

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

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057989.D

Acq: 12 Sep 2019 23:02

Instrument :

MSVOA_N

ClientSampled :

T2-3-(2)

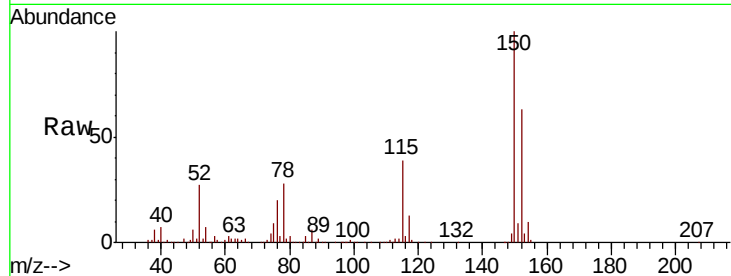
Tgt Ion:152 Resp: 207977

Ion Ratio Lower Upper

152 100

115 61.1 30.3 91.0

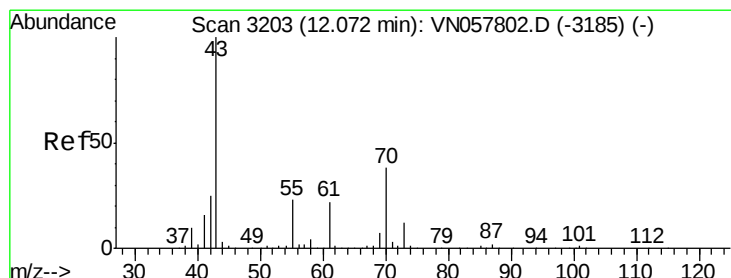
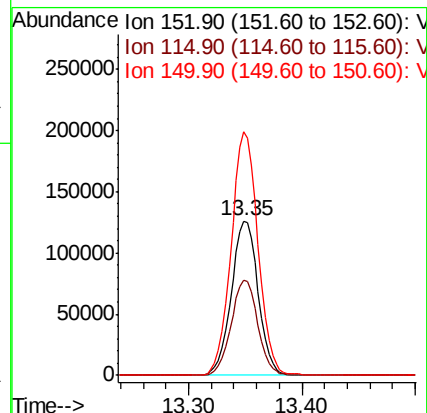
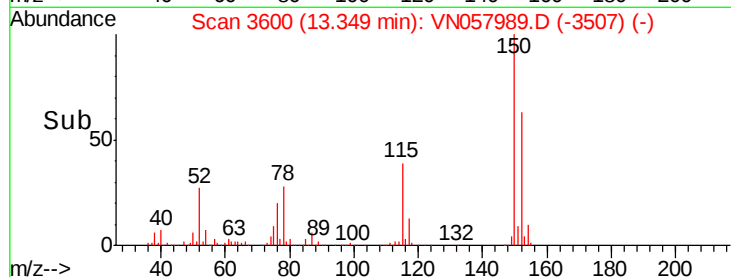
150 157.1 0.0 352.4



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: 0.820 ug/l

RT: 12.03 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN057989.D

Acq: 12 Sep 2019 23:02

Tgt Ion: 43 Resp: 5759

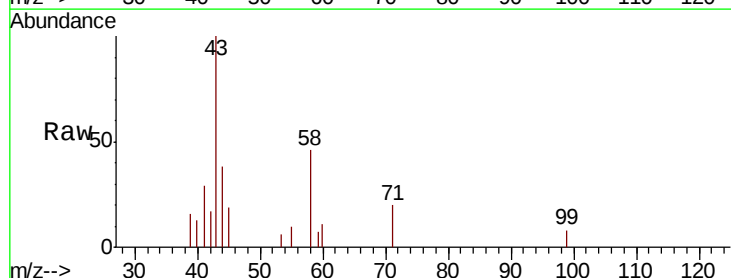
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 6.3 18.6 27.8#

61 0.0 17.4 26.2#

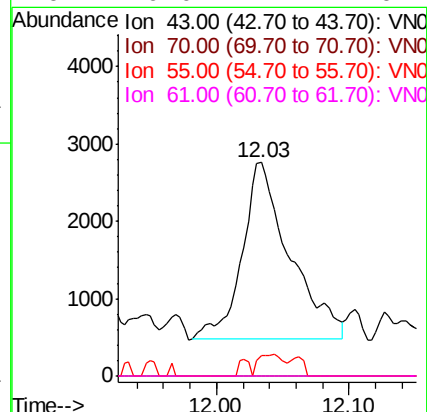
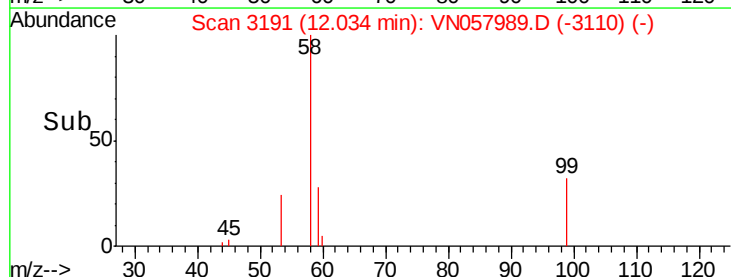


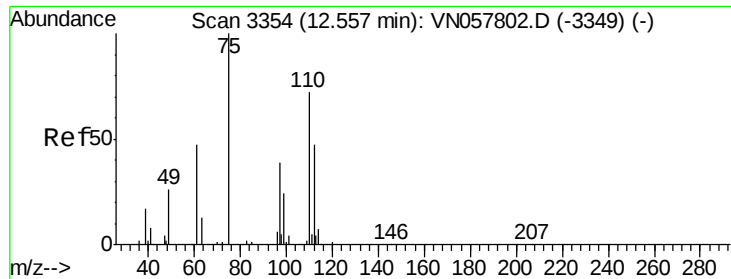
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 32.359 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN057989.D

Acq: 12 Sep 2019 23:02

Instrument :

MSVOA_N

ClientSampled :

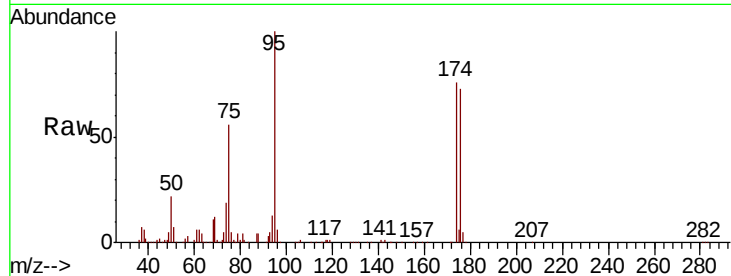
T2-3-(2)

Tgt Ion: 75 Resp: 152244

Ion Ratio Lower Upper

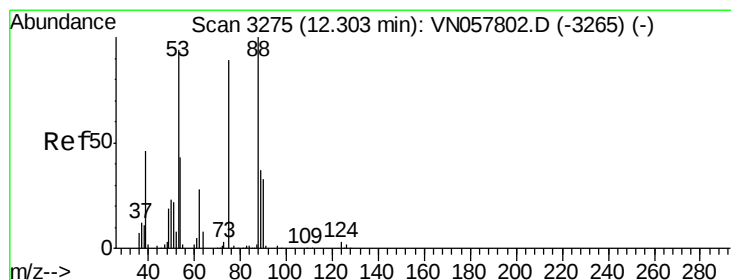
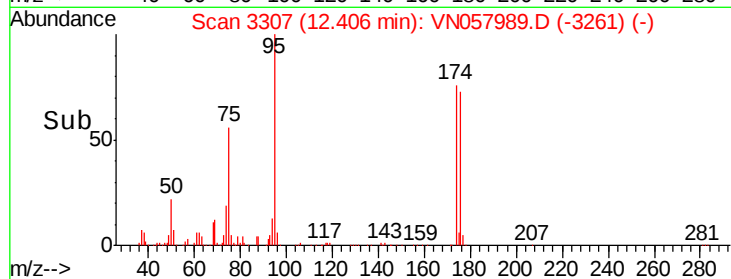
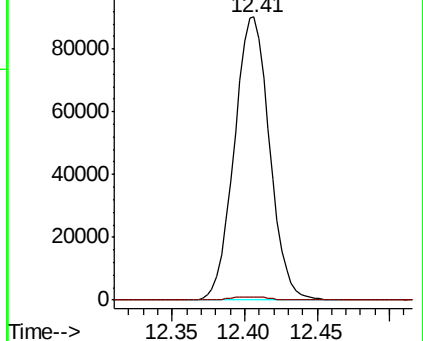
75 100

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: 113.873 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN057989.D

Acq: 12 Sep 2019 23:02

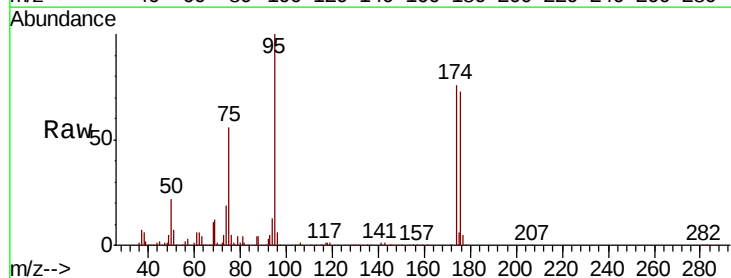
Tgt Ion: 75 Resp: 152244

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

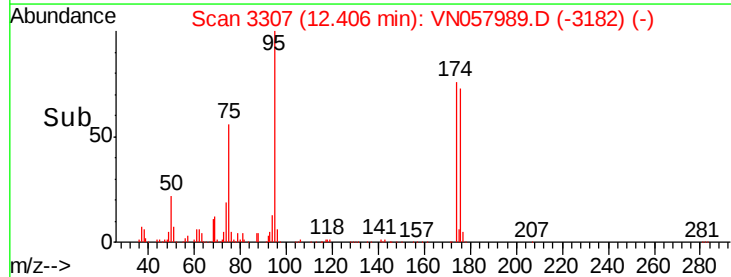
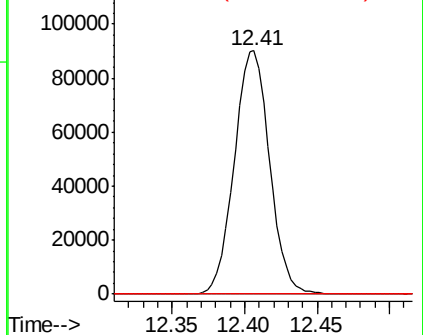
89 0.0 35.3 52.9#

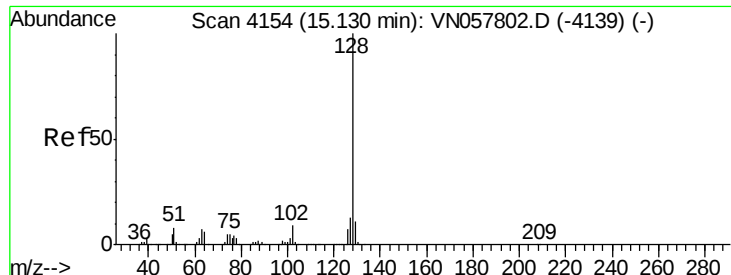


Abundance Ion 74.90 (74.60 to 75.60): VN0

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: VN057989.D

Acq: 12 Sep 2019 23:02

Instrument :

MSVOA_N

ClientSampleId :

T2-3-(2)

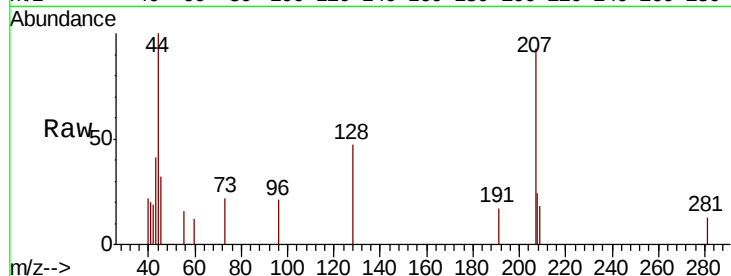
Tgt Ion:128 Resp: 855

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

