

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091319\
 Data File : VN057992.D
 Acq On : 13 Sep 2019 00:08
 Operator : JC/SP
 Sample : K4680-32
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T3-1-(1.5)

Quant Time: Sep 13 04:52:51 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

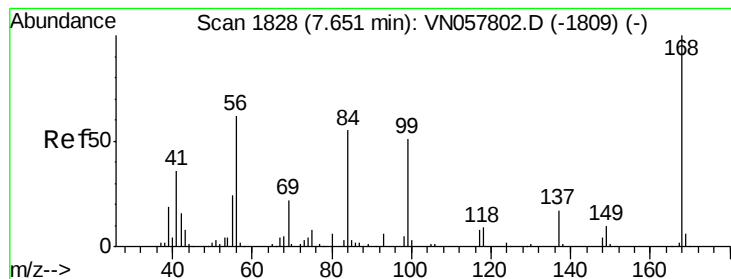
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	267434	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	466952	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	431646	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	222897	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	314151	58.00	ug/l	0.00
Spiked Amount			Recovery	=	116.00%	
35) Dibromofluoromethane	7.58	113	213687	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
50) Toluene-d8	10.09	98	846220	50.57	ug/l	0.00
Spiked Amount			Recovery	=	101.14%	
62) 4-Bromofluorobenzene	12.41	95	280077	43.92	ug/l	0.00
Spiked Amount			Recovery	=	87.84%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	456	Below Cal		81
11) Tert butyl alcohol	4.75	59	280	0.427	ug/l #	72
16) Acetone	3.80	43	13997	7.883	ug/l #	85
18) Methyl Acetate	4.31	43	6021	1.272	ug/l #	75
20) Methylene Chloride	4.53	84	6081	0.582	ug/l	93
25) 2-Butanone	6.83	43	1442	0.561	ug/l #	73
29) Tetrahydrofuran	7.20	42	641	0.405	ug/l #	44
31) Cyclohexane	7.65	56	7028	Below Cal	#	30
36) 1,1-Dichloropropene	7.65	75	23202	4.284	ug/l #	45
38) Carbon Tetrachloride	7.65	117	26421	5.344	ug/l #	16
43) Isopropyl Acetate	8.16	43	109054	11.590	ug/l #	83
45) 1,2-Dichloropropane	9.26	63	1194	0.252	ug/l #	44
48) Methyl methacrylate	9.18	41	4292	0.899	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	7197	1.293	ug/l	93
54) cis-1,3-Dichloropropene	9.90	75	35077	5.270	ug/l #	71
56) Ethyl methacrylate	10.54	69	1694	0.259	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4230	0.564	ug/l #	43
59) 2-Hexanone	10.76	43	69228	16.588	ug/l #	55
74) N-amyl acetate	12.04	43	3167	0.421	ug/l #	52
76) 1,2,3-Trichloropropane	12.41	75	154649	30.670	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	154649	107.929	ug/l #	6
95) Naphthalene	15.13	128	718	Below Cal	#	69

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

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Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 41 Sample Multiplier: 1



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057992.D

Acq: 13 Sep 2019 00:08

Instrument :

MSVOA_N

ClientSampleId :

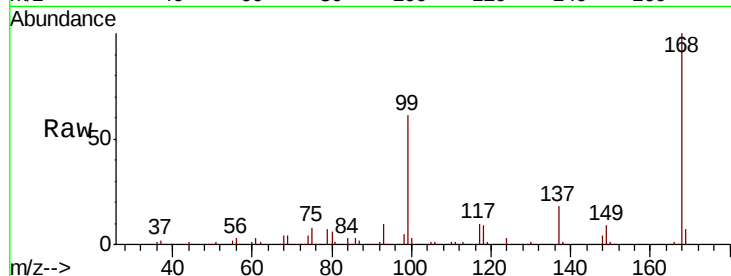
T3-1-(1.5)

Tgt Ion: 168 Resp: 267434

Ion Ratio Lower Upper

168 100

99 61.1 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

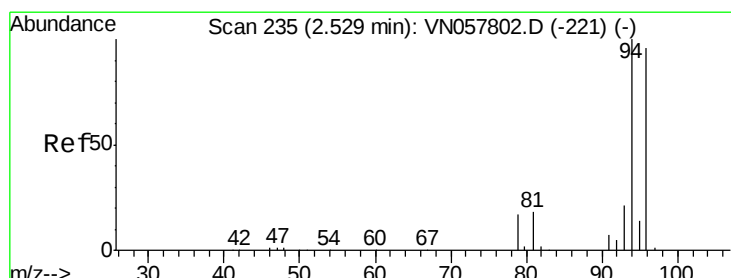
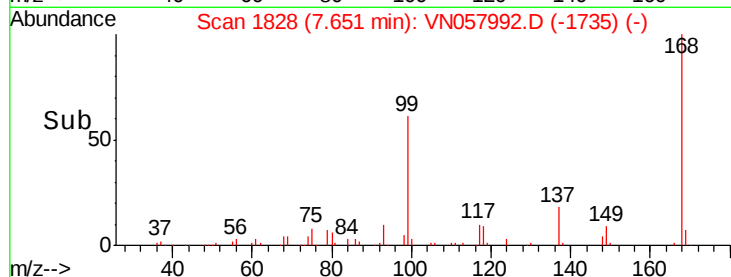
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 242

Delta R.T. 0.02 min

Lab File: VN057992.D

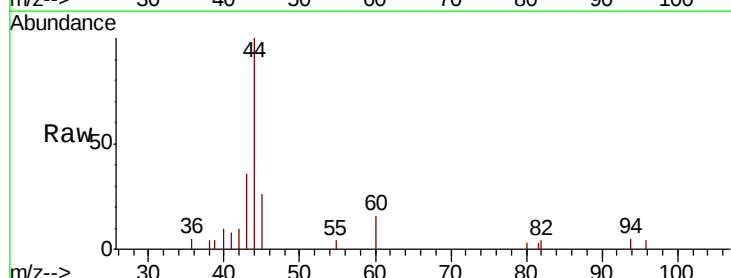
Acq: 13 Sep 2019 00:08

Tgt Ion: 94 Resp: 456

Ion Ratio Lower Upper

94 100

96 77.7 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

250

200

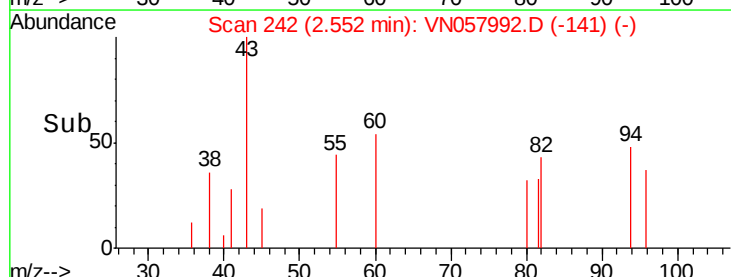
150

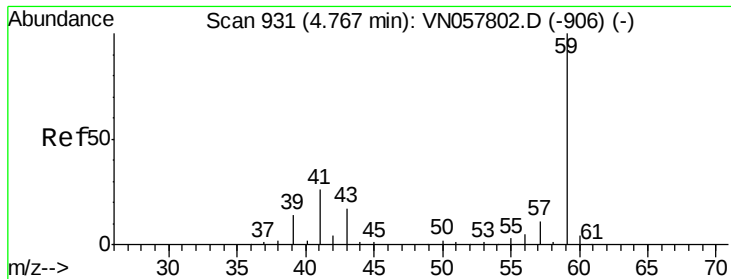
100

50

0

Time-->

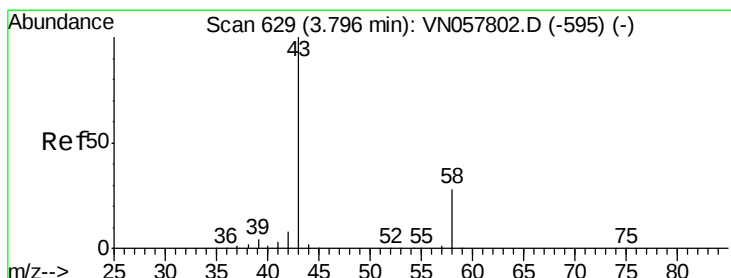
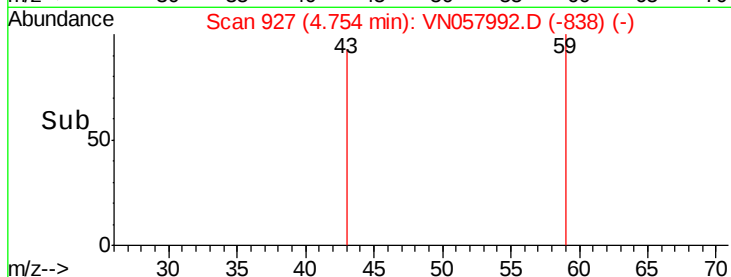
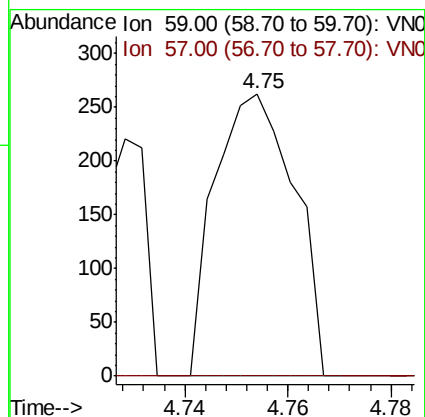
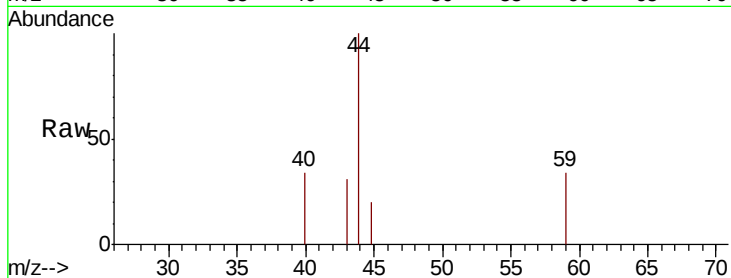




#11
Tert butyl alcohol
Concen: 0.427 ug/l
RT: 4.75 min Scan# 927
Delta R.T. -0.01 min
Lab File: VN057992.D
Acq: 13 Sep 2019 00:08

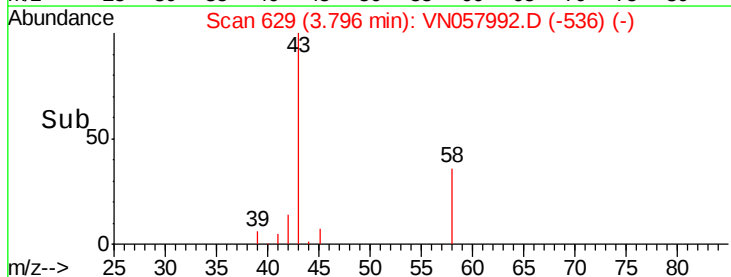
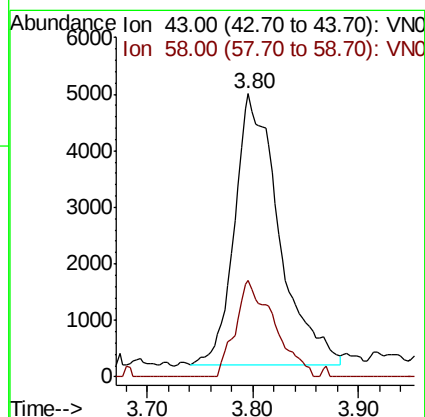
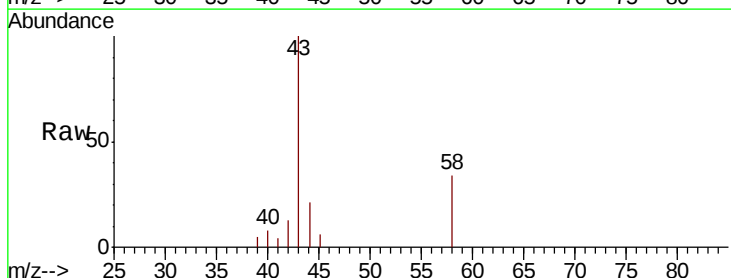
Instrument :
MSVOA_N
ClientSampled :
T3-1-(1.5)

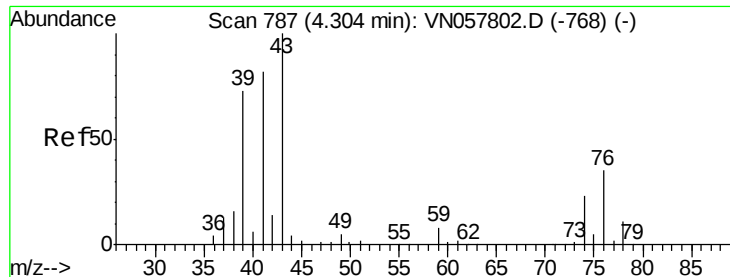
Tgt Ion: 59 Resp: 280
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#16
Acetone
Concen: 7.883 ug/l
RT: 3.80 min Scan# 629
Delta R.T. 0.00 min
Lab File: VN057992.D
Acq: 13 Sep 2019 00:08

Tgt Ion: 43 Resp: 13997
Ion Ratio Lower Upper
43 100
58 35.7 22.2 33.2#

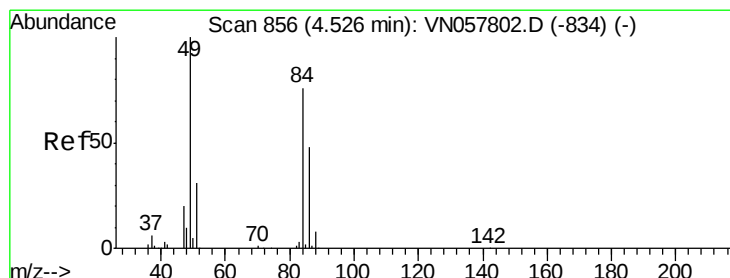
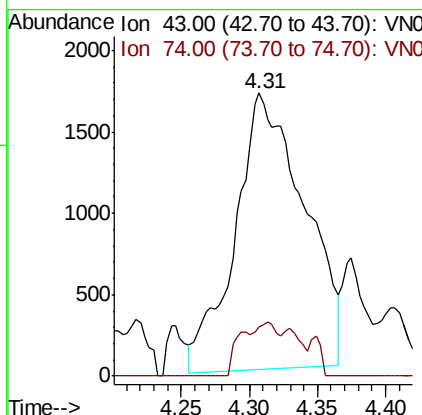
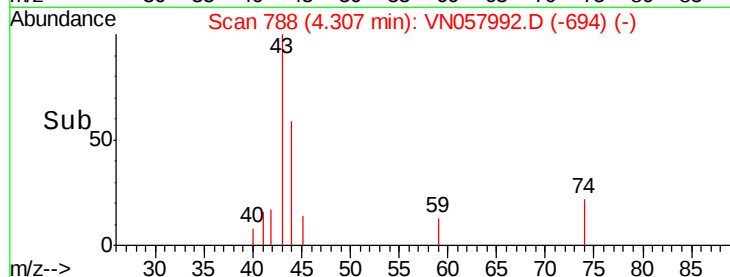
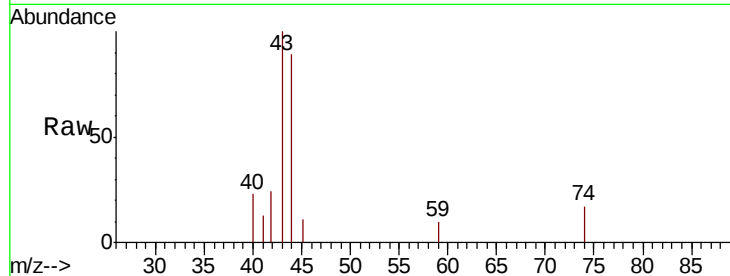




#18
Methyl Acetate
Concen: 1.272 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN057992.D
Acq: 13 Sep 2019 00:08

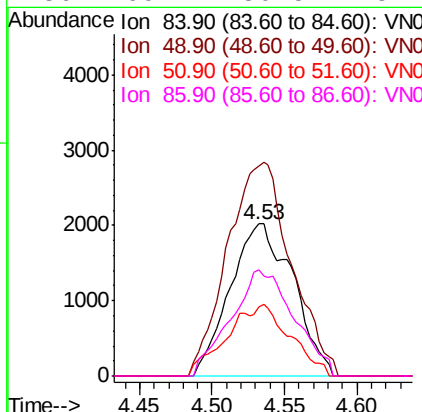
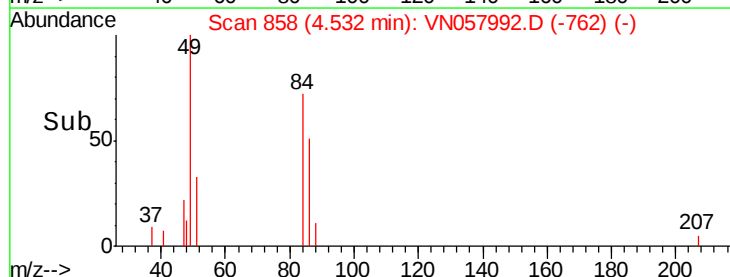
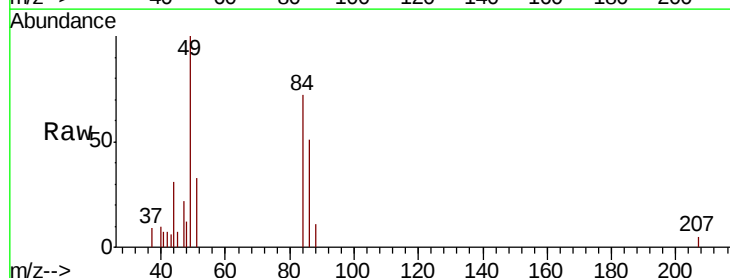
Instrument :
MSVOA_N
ClientSampleId :
T3-1-(1.5)

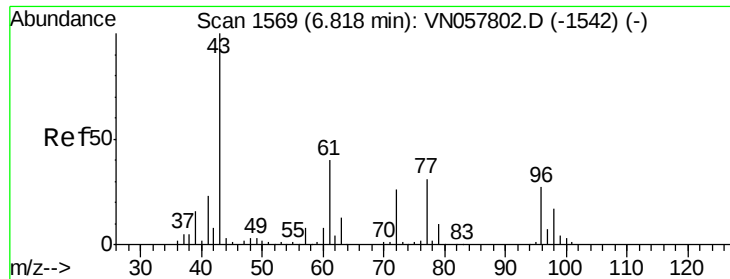
Tgt Ion: 43 Resp: 6021
Ion Ratio Lower Upper
43 100
74 10.5 17.9 26.9#



#20
Methylene Chloride
Concen: 0.582 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.01 min
Lab File: VN057992.D
Acq: 13 Sep 2019 00:08

Tgt Ion: 84 Resp: 6081
Ion Ratio Lower Upper
84 100
49 137.9 104.8 157.2
51 45.3 33.0 49.4
86 69.7 50.5 75.7

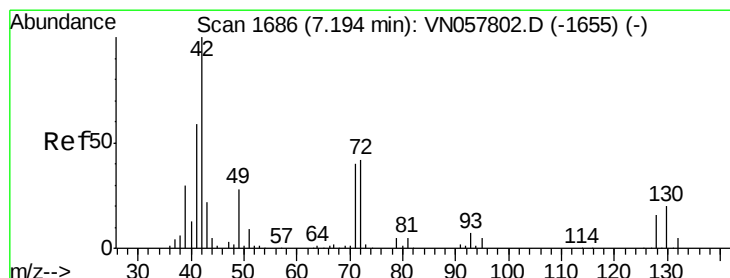
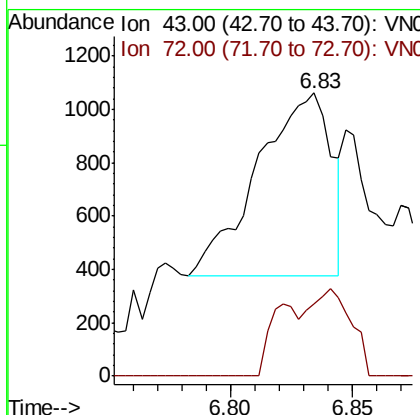
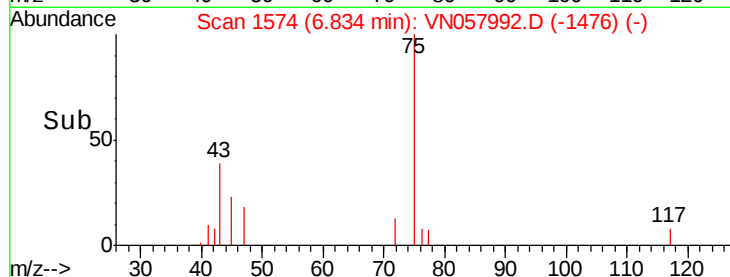
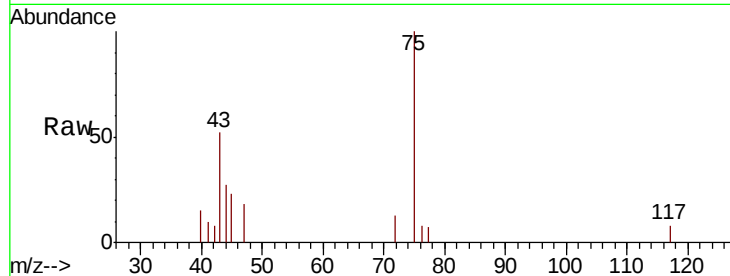




#25
 2-Butanone
 Concen: 0.561 ug/l
 RT: 6.83 min Scan# 1574
 Delta R.T. 0.02 min
 Lab File: VN057992.D
 Acq: 13 Sep 2019 00:08

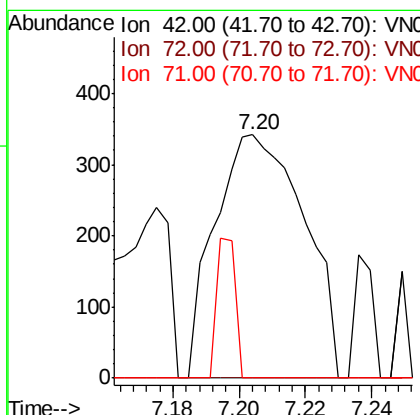
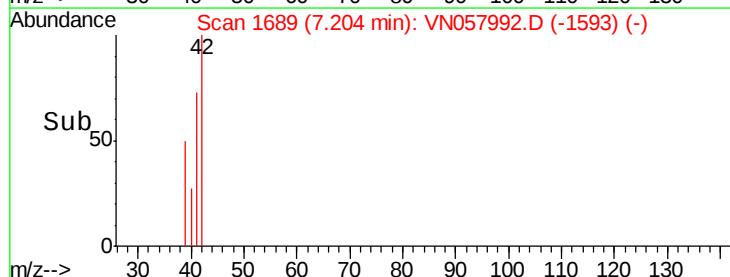
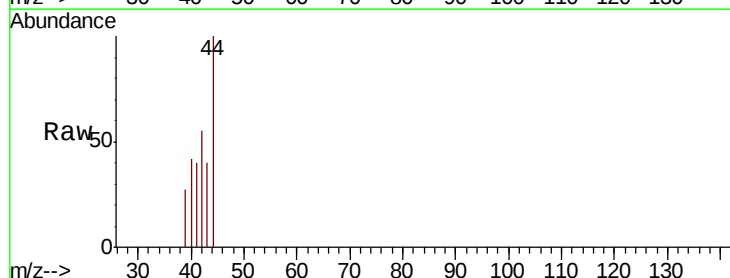
Instrument :
 MSVOA_N
 ClientSampled :
 T3-1-(1.5)

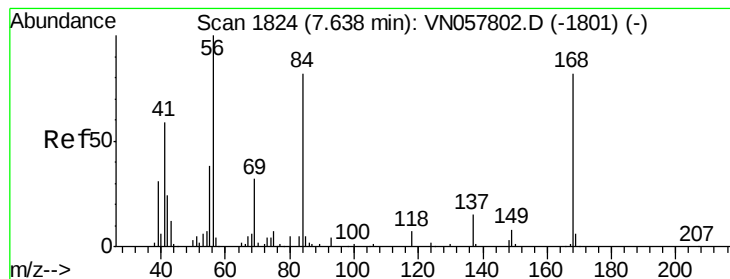
Tgt Ion: 43 Resp: 1442
 Ion Ratio Lower Upper
 43 100
 72 39.3 20.6 30.8#



#29
 Tetrahydrofuran
 Concen: 0.405 ug/l
 RT: 7.20 min Scan# 1689
 Delta R.T. 0.01 min
 Lab File: VN057992.D
 Acq: 13 Sep 2019 00:08

Tgt Ion: 42 Resp: 641
 Ion Ratio Lower Upper
 42 100
 72 0.0 33.7 50.5#
 71 11.7 31.9 47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057992.D

Acq: 13 Sep 2019 00:08

Instrument :
MSVOA_N
ClientSampled :
T3-1-(1.5)

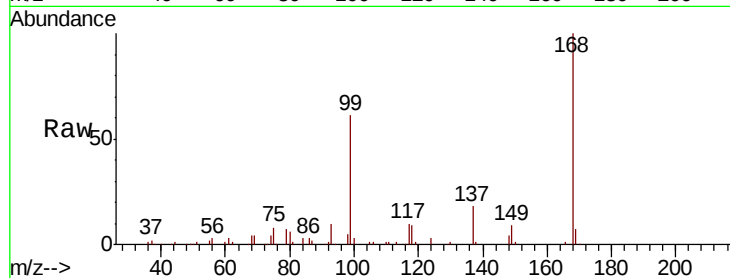
Tgt Ion: 56 Resp: 7028

Ion Ratio Lower Upper

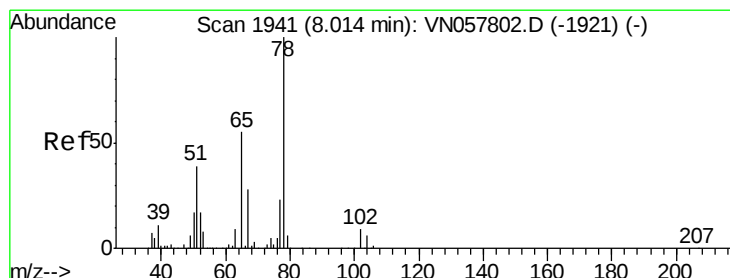
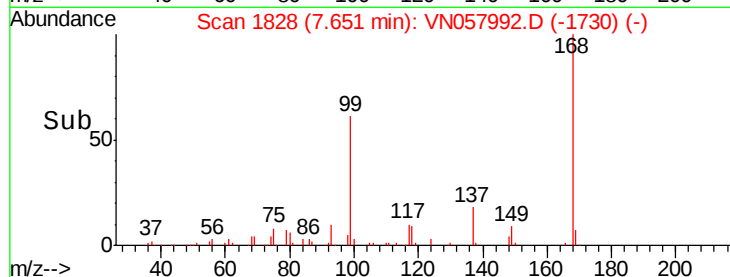
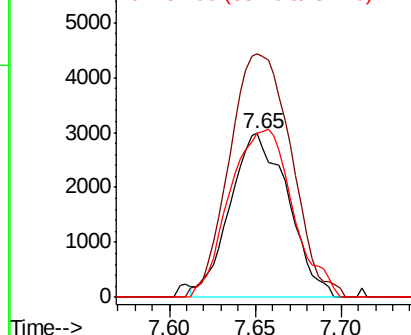
56 100

69 142.8 25.9 38.9#

84 99.9 65.6 98.4#



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



#33

1,2-Dichloroethane-d4

Concen: 57.997 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057992.D

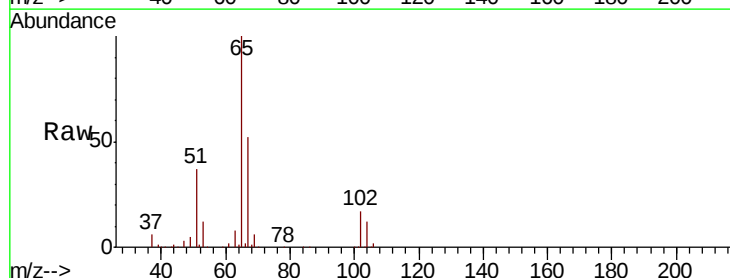
Acq: 13 Sep 2019 00:08

Tgt Ion: 65 Resp: 314151

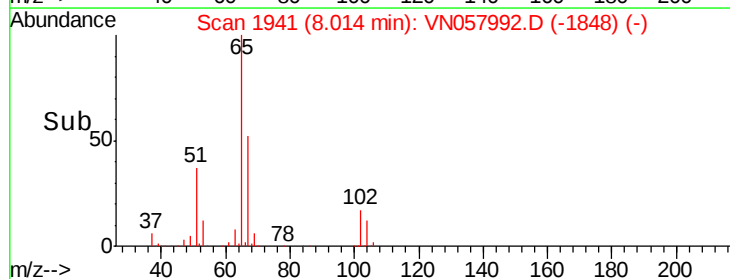
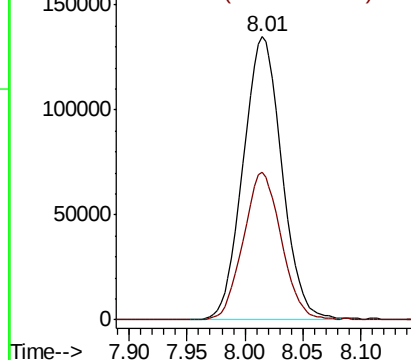
Ion Ratio Lower Upper

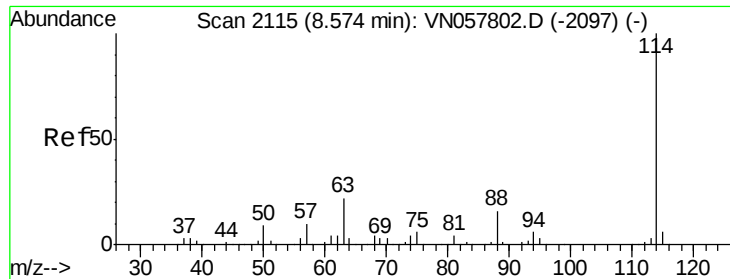
65 100

67 51.2 0.0 104.0



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

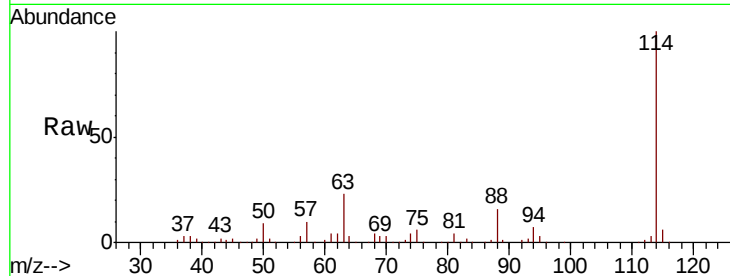




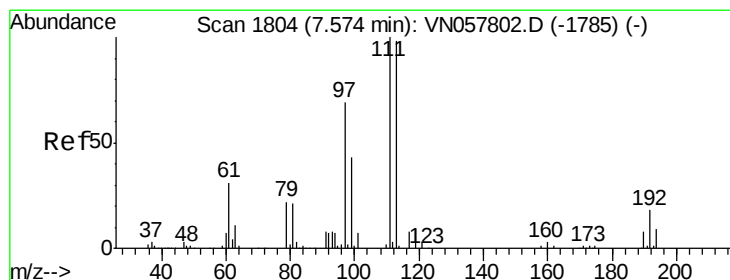
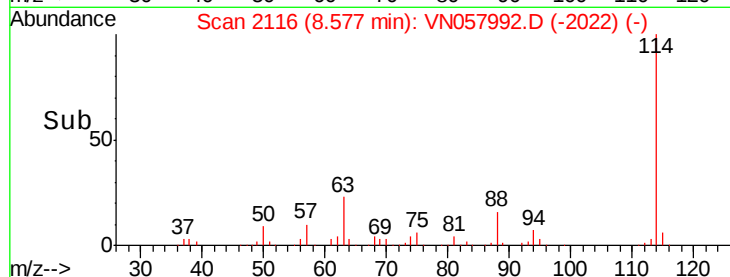
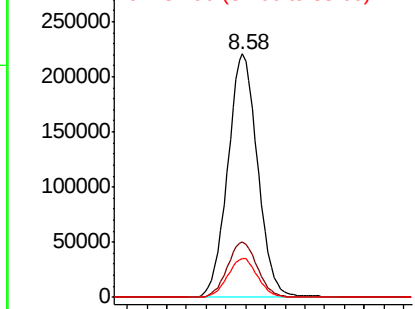
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057992.D
 Acq: 13 Sep 2019 00:08

Instrument :
 MSVOA_N
 ClientSampleID :
 T3-1-(1.5)

Tgt Ion:114 Resp: 466952
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 44.0
 88 16.1 0.0 31.4

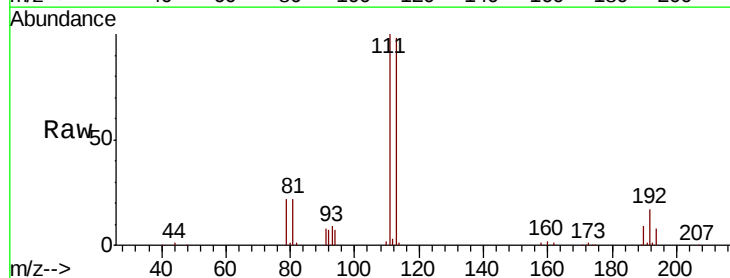


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

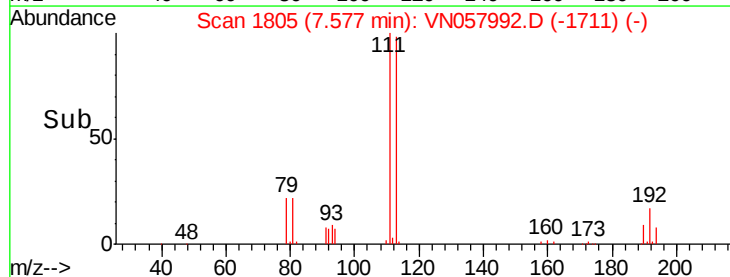
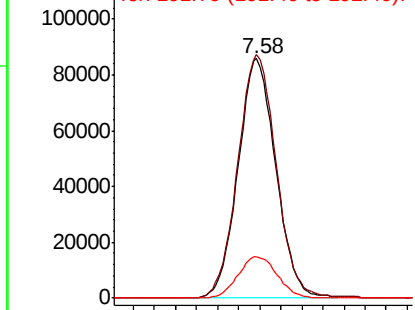


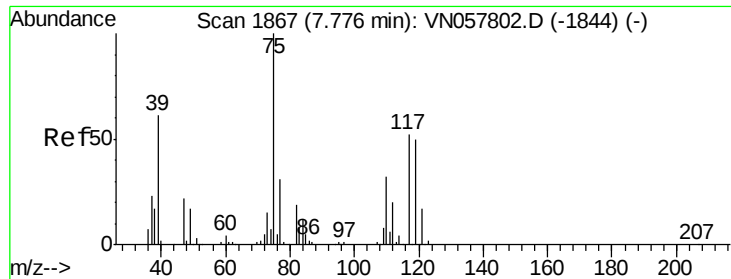
#35
 Dibromofluoromethane
 Concen: 49.582 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057992.D
 Acq: 13 Sep 2019 00:08

Tgt Ion:113 Resp: 213687
 Ion Ratio Lower Upper
 113 100
 111 103.9 81.3 121.9
 192 17.9 14.6 22.0



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

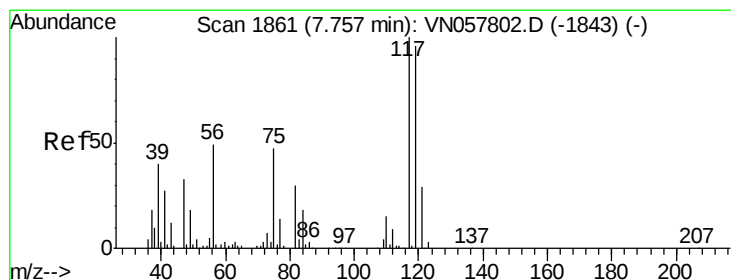
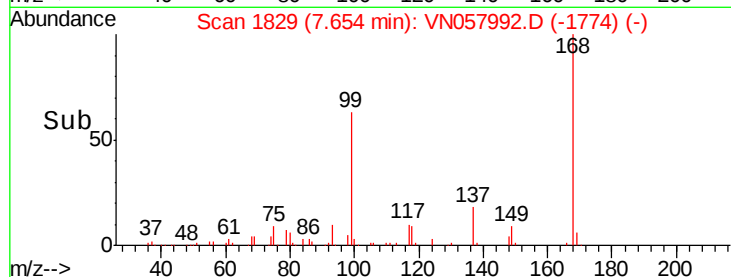
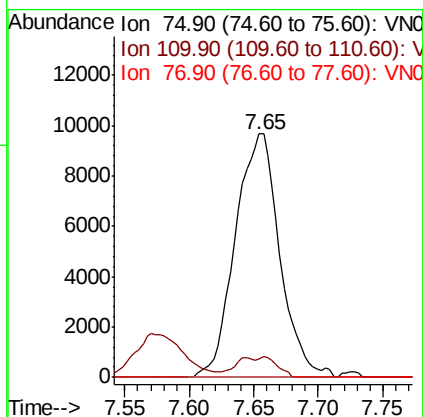
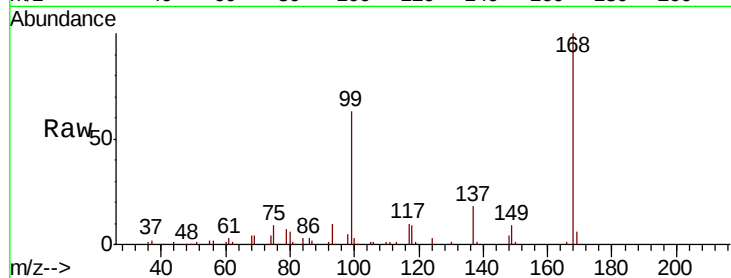




#36
 1,1-Dichloropropene
 Concen: 4.284 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057992.D
 Acq: 13 Sep 2019 00:08

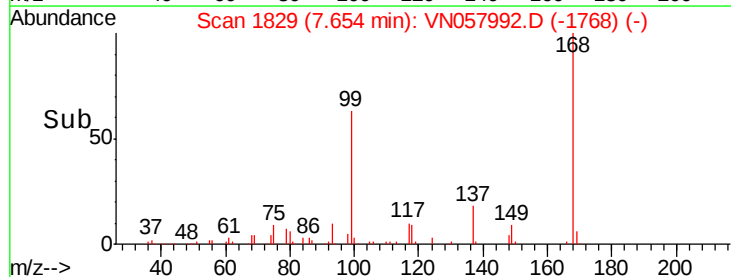
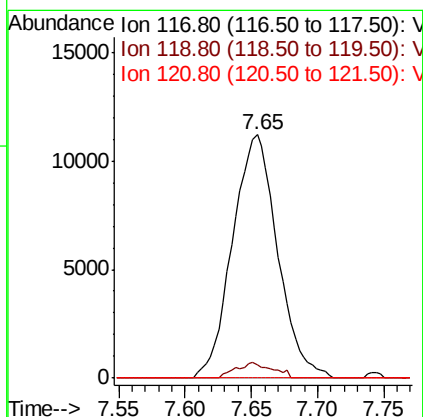
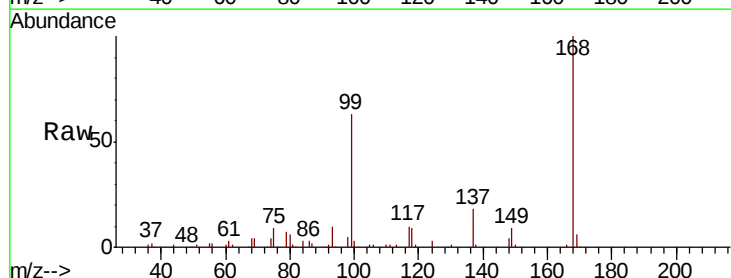
Instrument :
 MSVOA_N
 ClientSampleId :
 T3-1-(1.5)

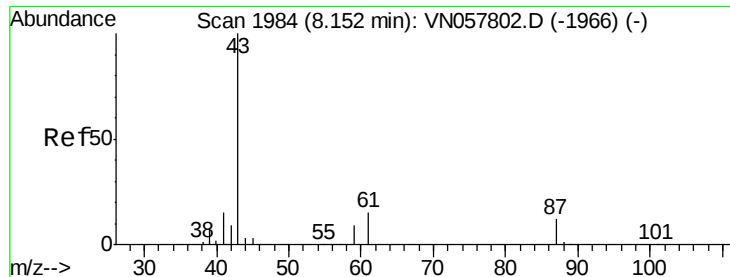
Tgt Ion: 75 Resp: 23202
 Ion Ratio Lower Upper
 75 100
 110 2.5 16.3 48.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.344 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN057992.D
 Acq: 13 Sep 2019 00:08

Tgt Ion: 117 Resp: 26421
 Ion Ratio Lower Upper
 117 100
 119 5.4 76.9 115.3#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 11.590 ug/l

RT: 8.16 min Scan# 1985

Delta R.T. 0.00 min

Lab File: VN057992.D

Acq: 13 Sep 2019 00:08

Instrument :

MSVOA_N

ClientSampled :

T3-1-(1.5)

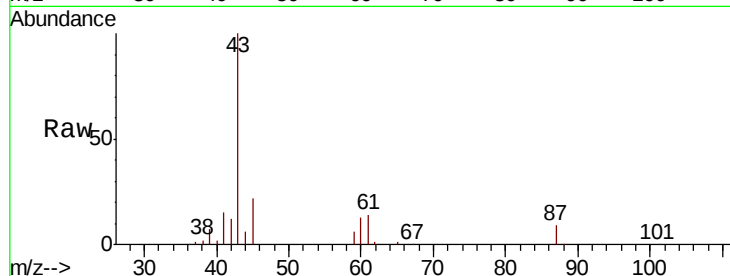
Tgt Ion: 43 Resp: 109054

Ion Ratio Lower Upper

43 100

61 14.3 20.1 30.1#

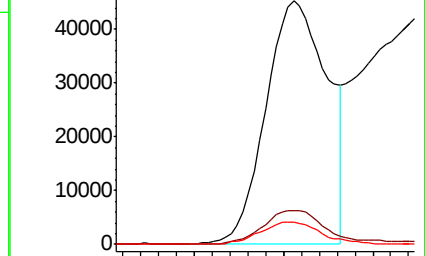
87 9.0 9.5 14.3#



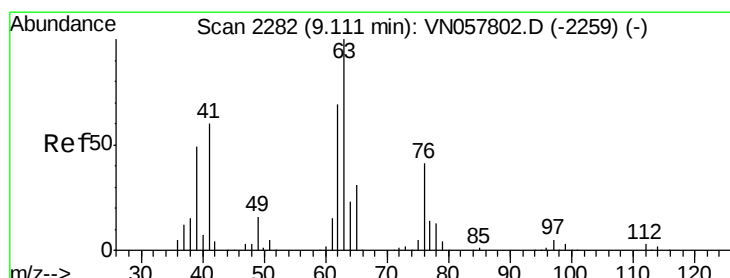
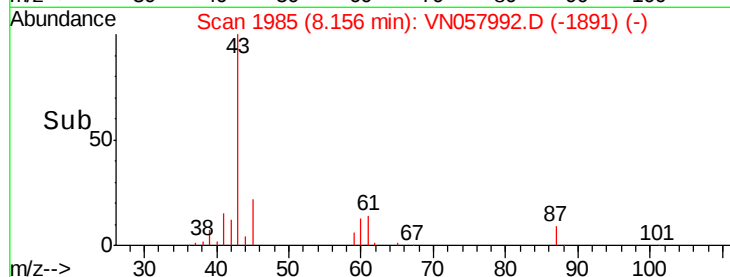
Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-1966) (-)

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

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



Time-->



#45

1,2-Dichloropropane

Concen: 0.252 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN057992.D

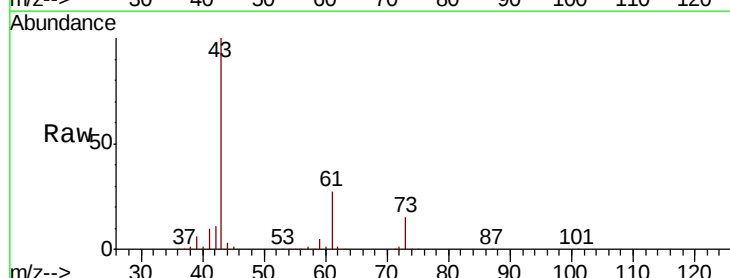
Acq: 13 Sep 2019 00:08

Tgt Ion: 63 Resp: 1194

Ion Ratio Lower Upper

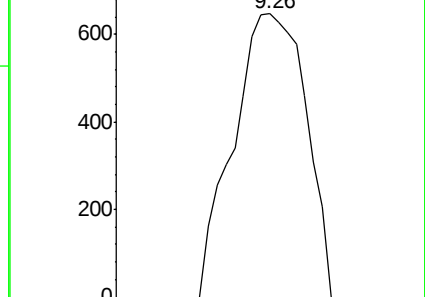
63 100

65 0.0 24.8 37.2#

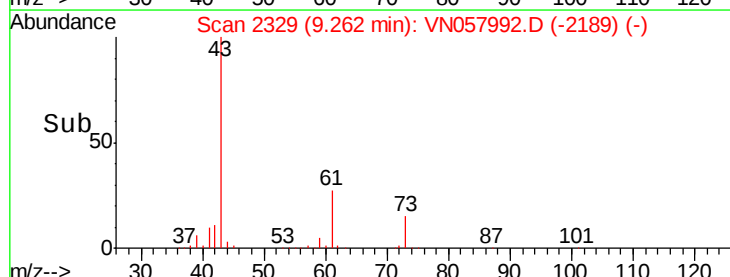


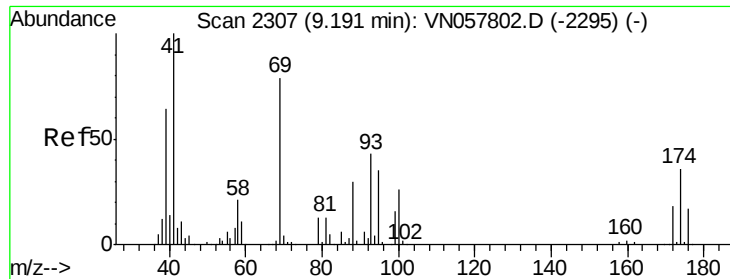
Abundance Ion 62.90 (62.60 to 63.60): VN057802.D (-2259) (-)

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



Time-->

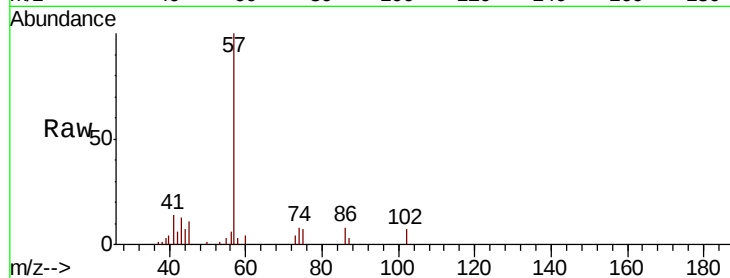




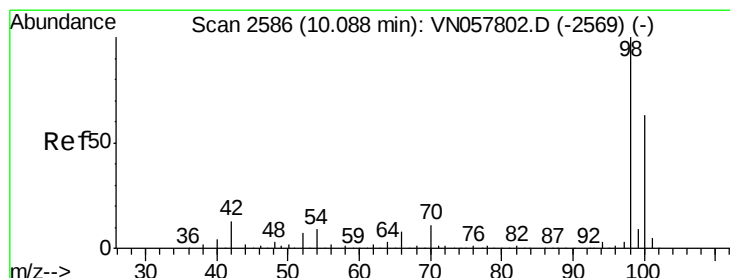
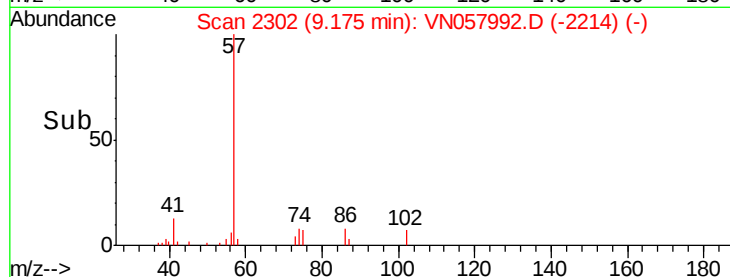
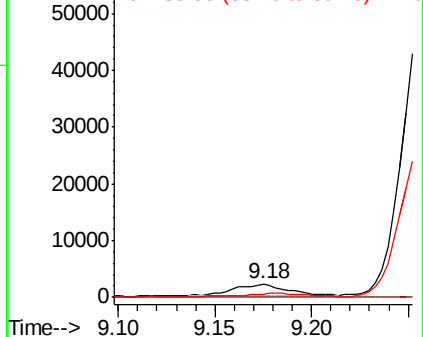
#48
Methyl methacrylate
Concen: 0.899 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057992.D
Acq: 13 Sep 2019 00:08

Instrument :
MSVOA_N
ClientSampleId :
T3-1-(1.5)

Tgt Ion: 41 Resp: 4292
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#

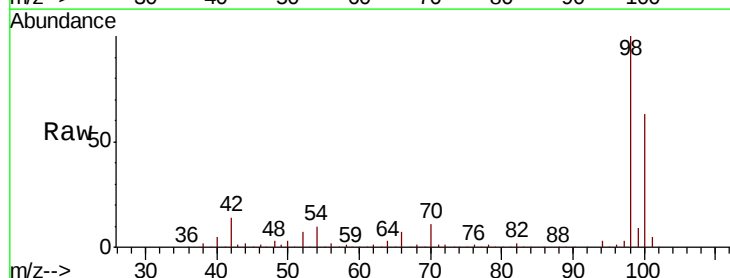


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

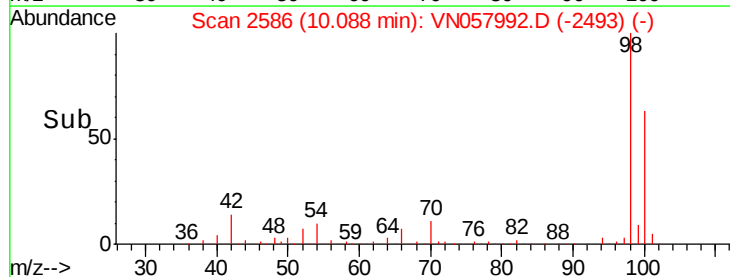
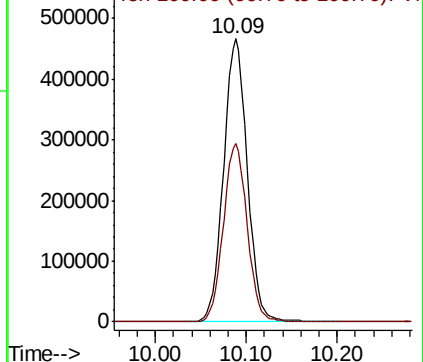


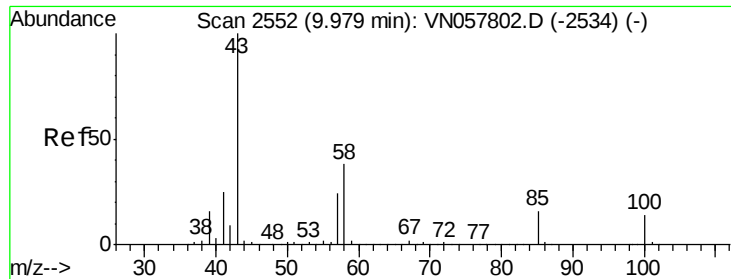
#50
Toluene-d8
Concen: 50.572 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. 0.00 min
Lab File: VN057992.D
Acq: 13 Sep 2019 00:08

Tgt Ion: 98 Resp: 846220
Ion Ratio Lower Upper
98 100
100 63.1 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: 1.293 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057992.D

Acq: 13 Sep 2019 00:08

Instrument :

MSVOA_N

ClientSampled :

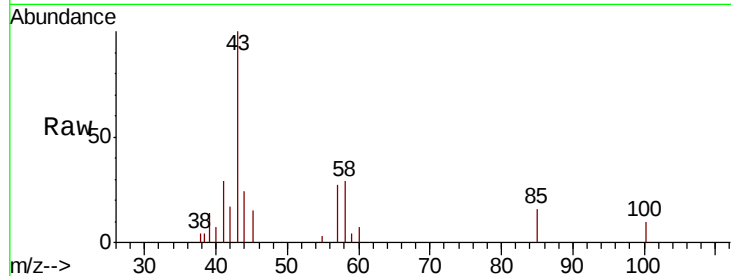
T3-1-(1.5)

Tgt Ion: 43 Resp: 7197

Ion Ratio Lower Upper

43 100

58 32.9 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) (-)

25000

20000

15000

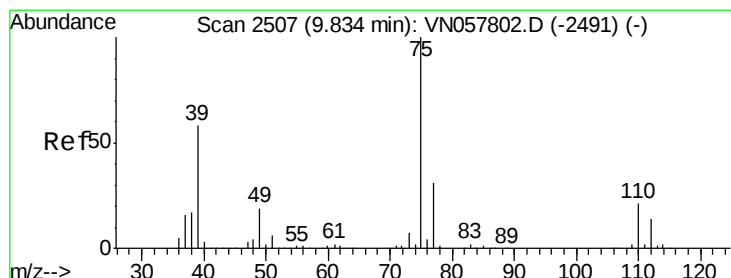
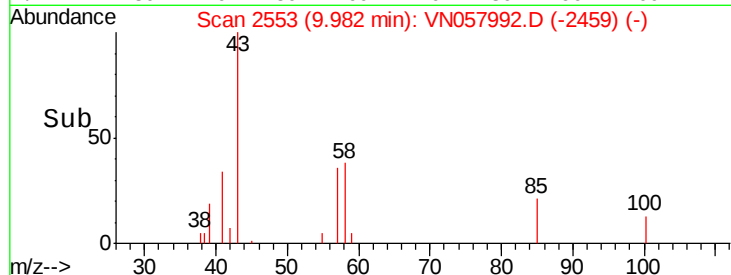
10000

5000

0

9.95 9.98 10.00

Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.270 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057992.D

Acq: 13 Sep 2019 00:08

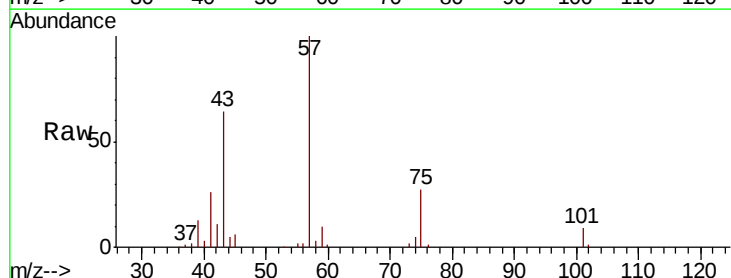
Tgt Ion: 75 Resp: 35077

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 46.8 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) (-)

25000

20000

15000

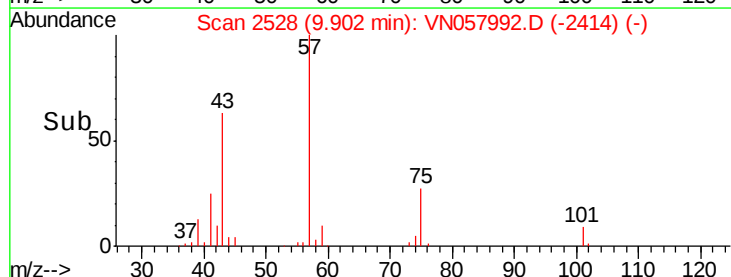
10000

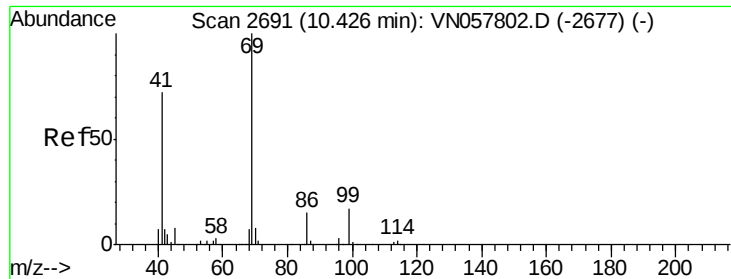
5000

0

9.85 9.90 9.95

Time-->





#56

Ethyl methacrylate

Concen: 0.259 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN057992.D

Acq: 13 Sep 2019 00:08

Instrument :

MSVOA_N

ClientSampleId :

T3-1-(1.5)

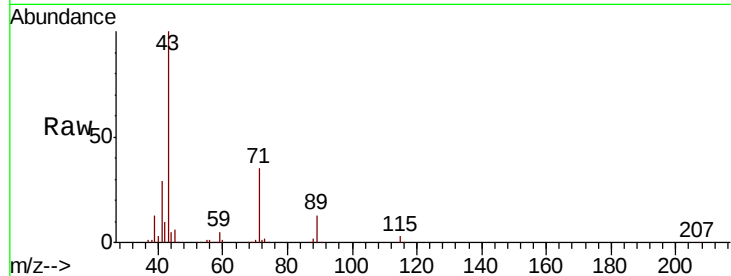
Tgt Ion: 69 Resp: 1694

Ion Ratio Lower Upper

69 100

41 5390.4 56.7 85.1#

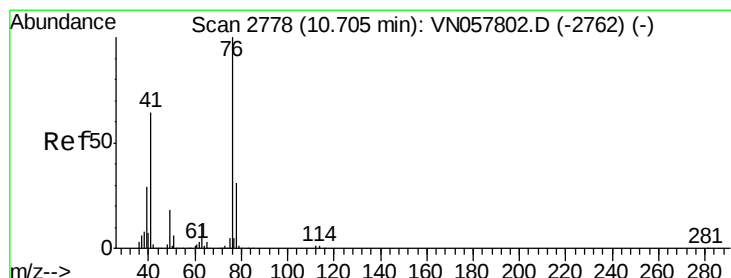
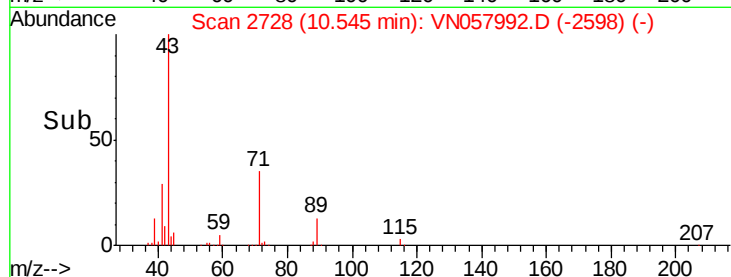
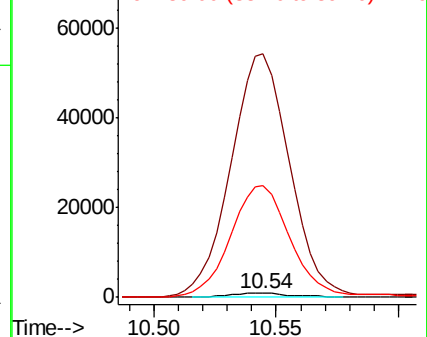
39 2536.9 36.3 54.5#



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: 0.564 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057992.D

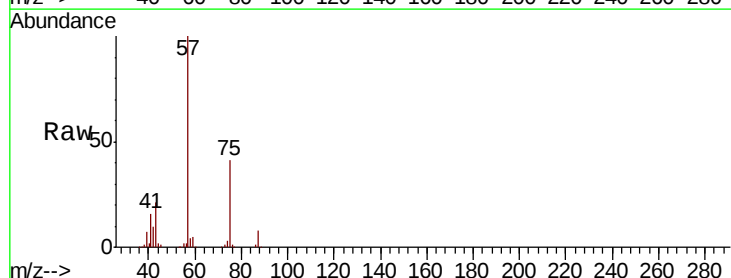
Acq: 13 Sep 2019 00:08

Tgt Ion: 76 Resp: 4230

Ion Ratio Lower Upper

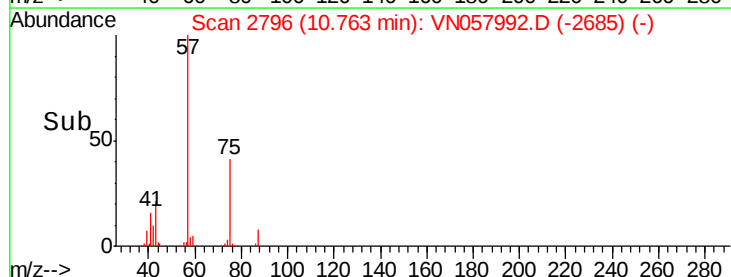
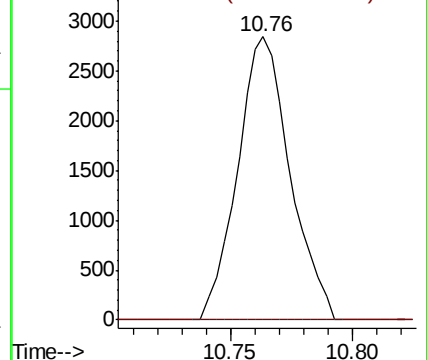
76 100

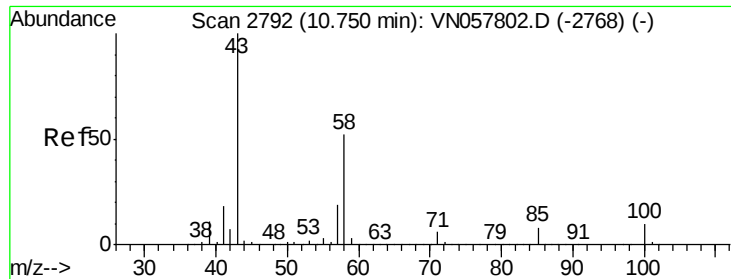
78 0.0 25.4 38.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

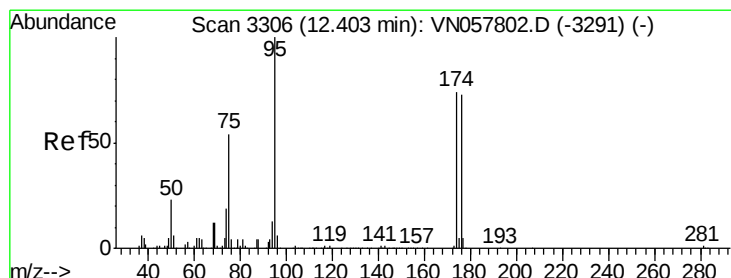
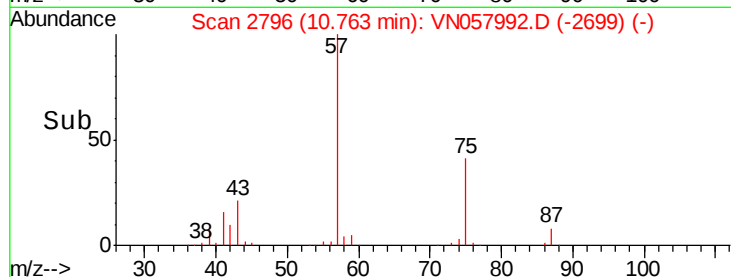
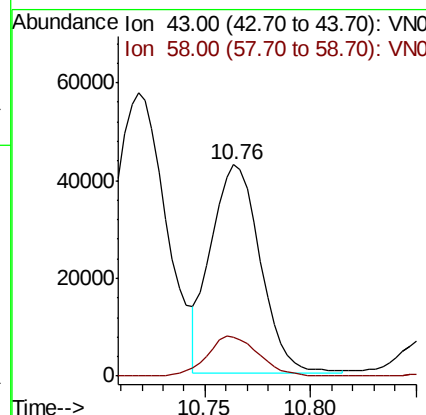
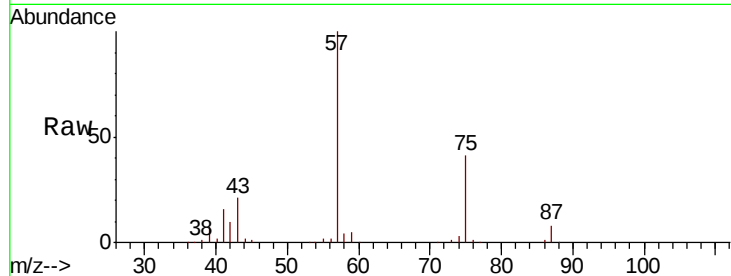




#59
 2-Hexanone
 Concen: 16.588 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN057992.D
 Acq: 13 Sep 2019 00:08

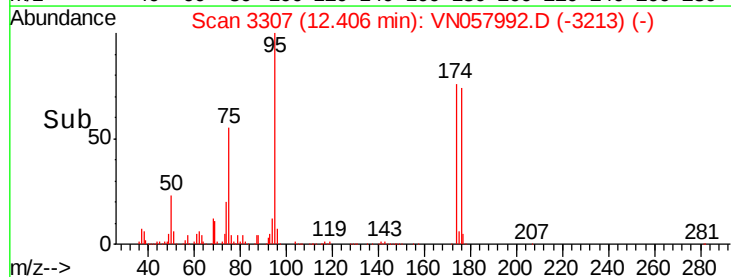
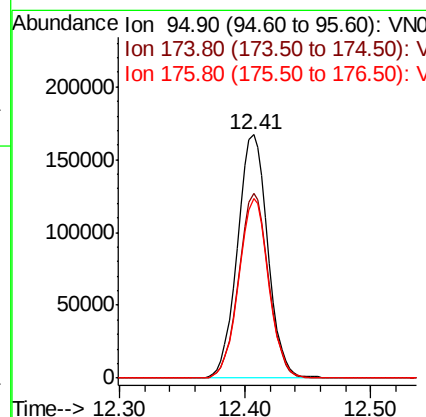
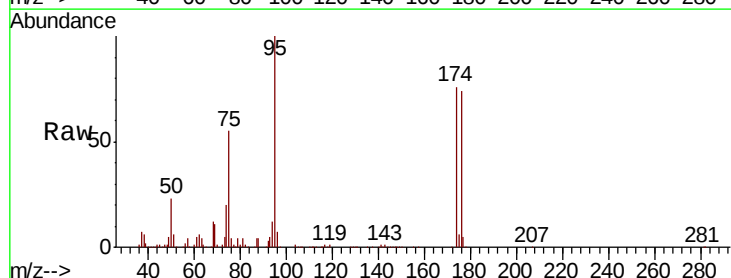
Instrument :
 MSVOA_N
 ClientSampleId :
 T3-1-(1.5)

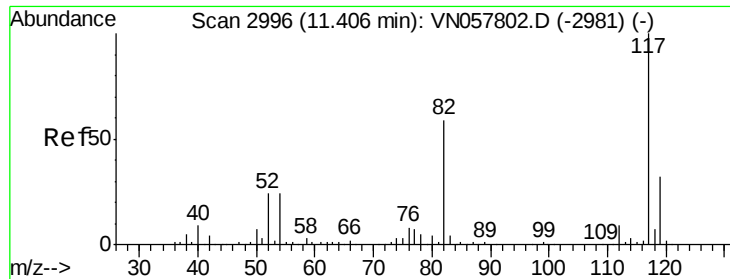
Tgt Ion: 43 Resp: 69228
 Ion Ratio Lower Upper
 43 100
 58 19.9 25.6 76.8#



#62
 4-Bromofluorobenzene
 Concen: 43.922 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.00 min
 Lab File: VN057992.D
 Acq: 13 Sep 2019 00:08

Tgt Ion: 95 Resp: 280077
 Ion Ratio Lower Upper
 95 100
 174 74.9 0.0 150.2
 176 72.8 0.0 146.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN057992.D

Acq: 13 Sep 2019 00:08

Instrument :

MSVOA_N

ClientSampleId :

T3-1-(1.5)

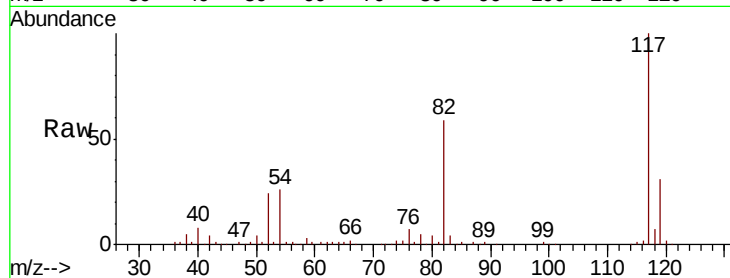
Tgt Ion:117 Resp: 431646

Ion Ratio Lower Upper

117 100

82 59.3 47.2 70.8

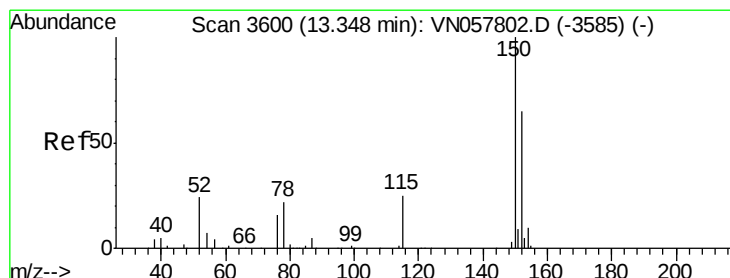
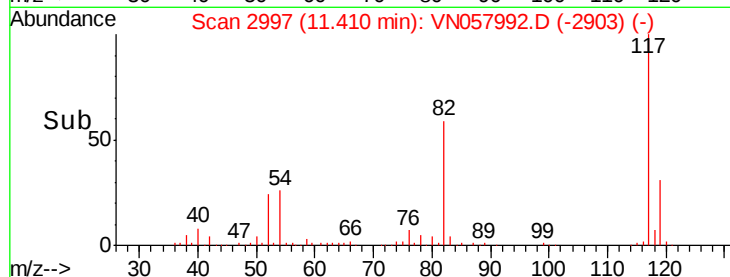
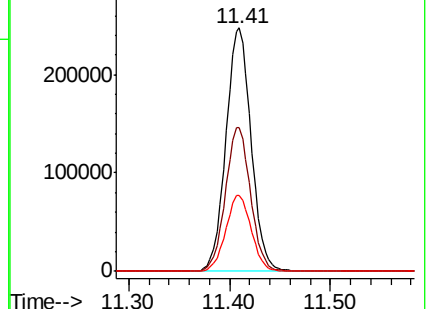
119 31.3 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): 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: VN057992.D

Acq: 13 Sep 2019 00:08

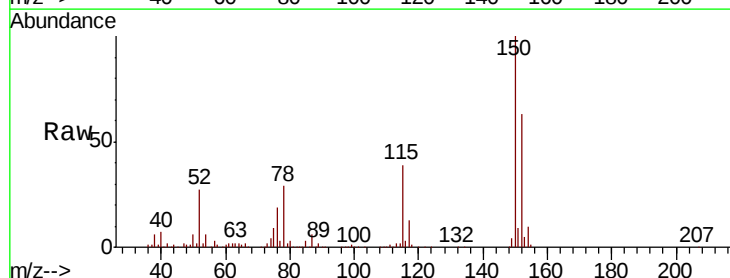
Tgt Ion:152 Resp: 222897

Ion Ratio Lower Upper

152 100

115 60.7 30.3 91.0

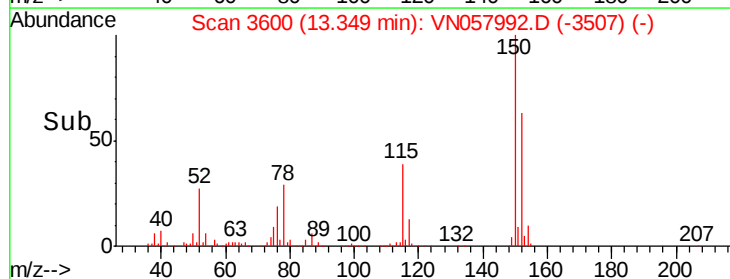
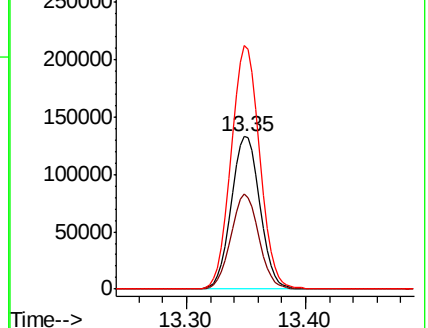
150 158.7 0.0 352.4

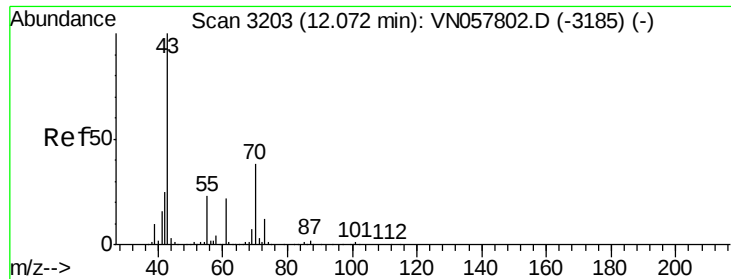


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.421 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN057992.D

Acq: 13 Sep 2019 00:08

Instrument :

MSVOA_N

ClientSampled :

T3-1-(1.5)

Tgt Ion: 43 Resp: 3167

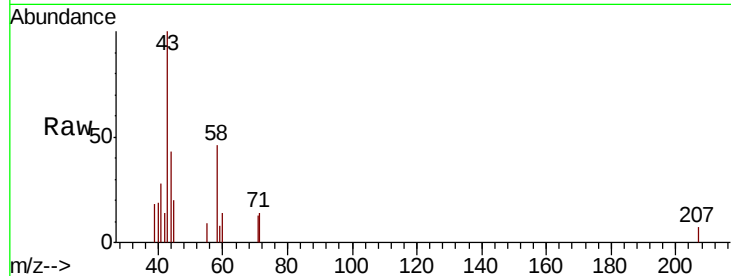
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 10.4 18.6 27.8#

61 0.0 17.4 26.2#

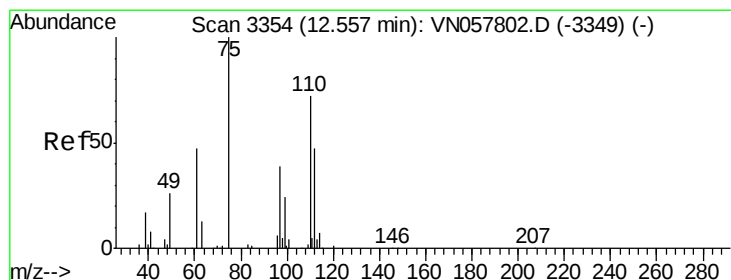
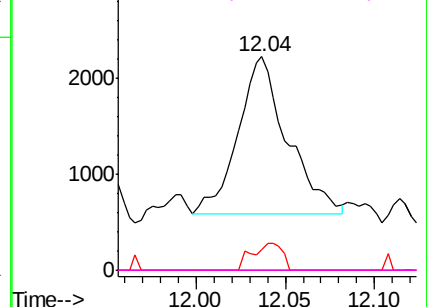
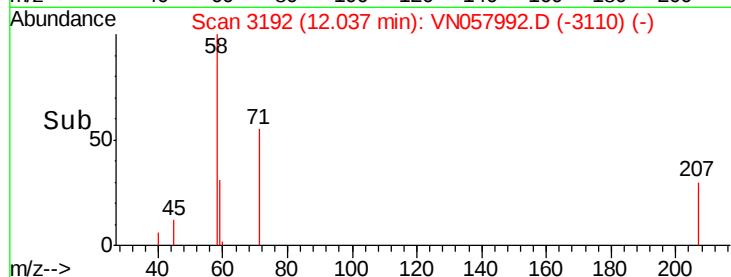


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 30.670 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN057992.D

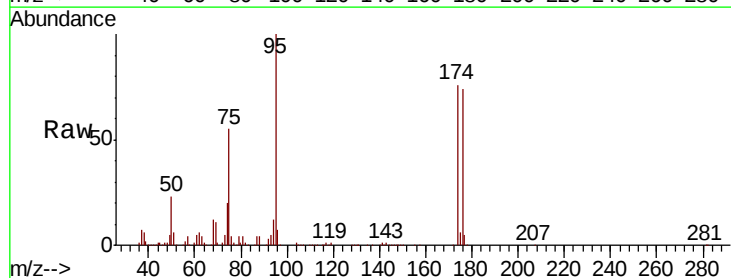
Acq: 13 Sep 2019 00:08

Tgt Ion: 75 Resp: 154649

Ion Ratio Lower Upper

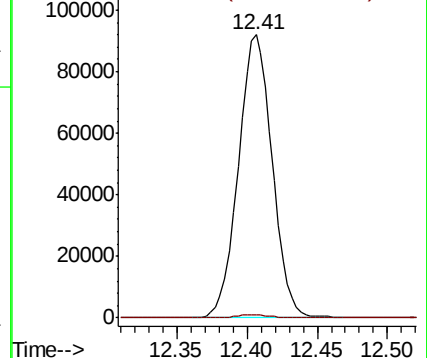
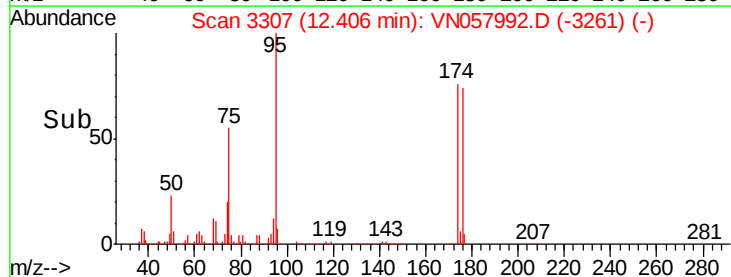
75 100

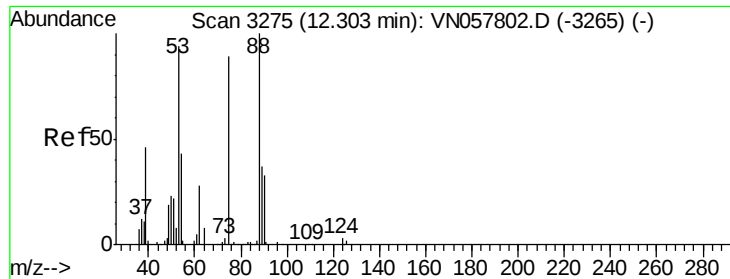
77 1.1 0.0 0.0#



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: 107.929 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN057992.D

Acq: 13 Sep 2019 00:08

Instrument :

MSVOA_N

ClientSampleId :

T3-1-(1.5)

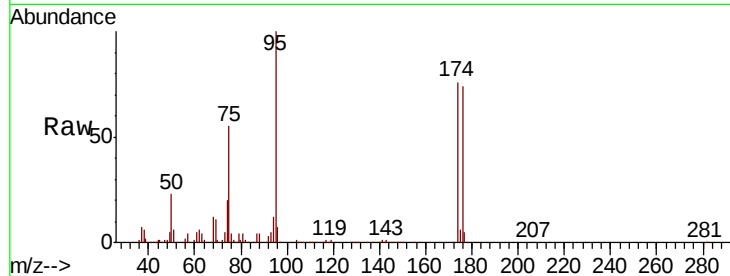
Tgt Ion: 75 Resp: 154649

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

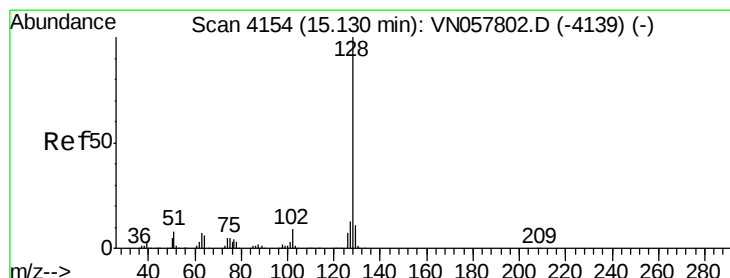
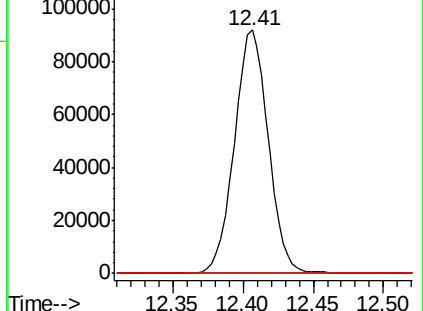
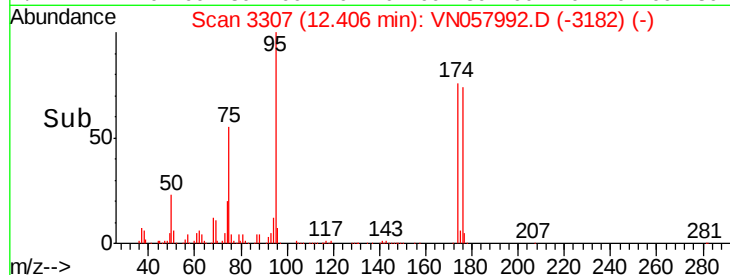
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN057992.D (-3182) (-)

Ion 53.00 (52.70 to 53.70): VN057992.D (-3182) (-)

Ion 88.90 (88.60 to 89.60): VN057992.D (-3182) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN057992.D

Acq: 13 Sep 2019 00:08

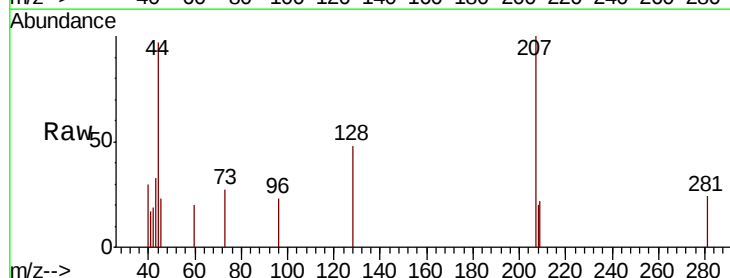
Tgt Ion: 128 Resp: 718

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): VN057992.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN057992.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN057992.D (-4060) (-)

