

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040219\
 Data File : VN054900.D
 Acq On : 2 Apr 2019 14:31
 Operator : JC/SP
 Sample : PB118500TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 03 05:06:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	538990	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	885223	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	776209	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	277048	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	352821	48.56	ug/l	0.00
Spiked Amount			Recovery	=	97.12%	
35) Dibromofluoromethane	7.59	113	278372	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
50) Toluene-d8	10.09	98	1075789	49.03	ug/l	0.00
Spiked Amount			Recovery	=	98.06%	
62) 4-Bromofluorobenzene	12.40	95	336173	46.07	ug/l	0.00
Spiked Amount			Recovery	=	92.14%	

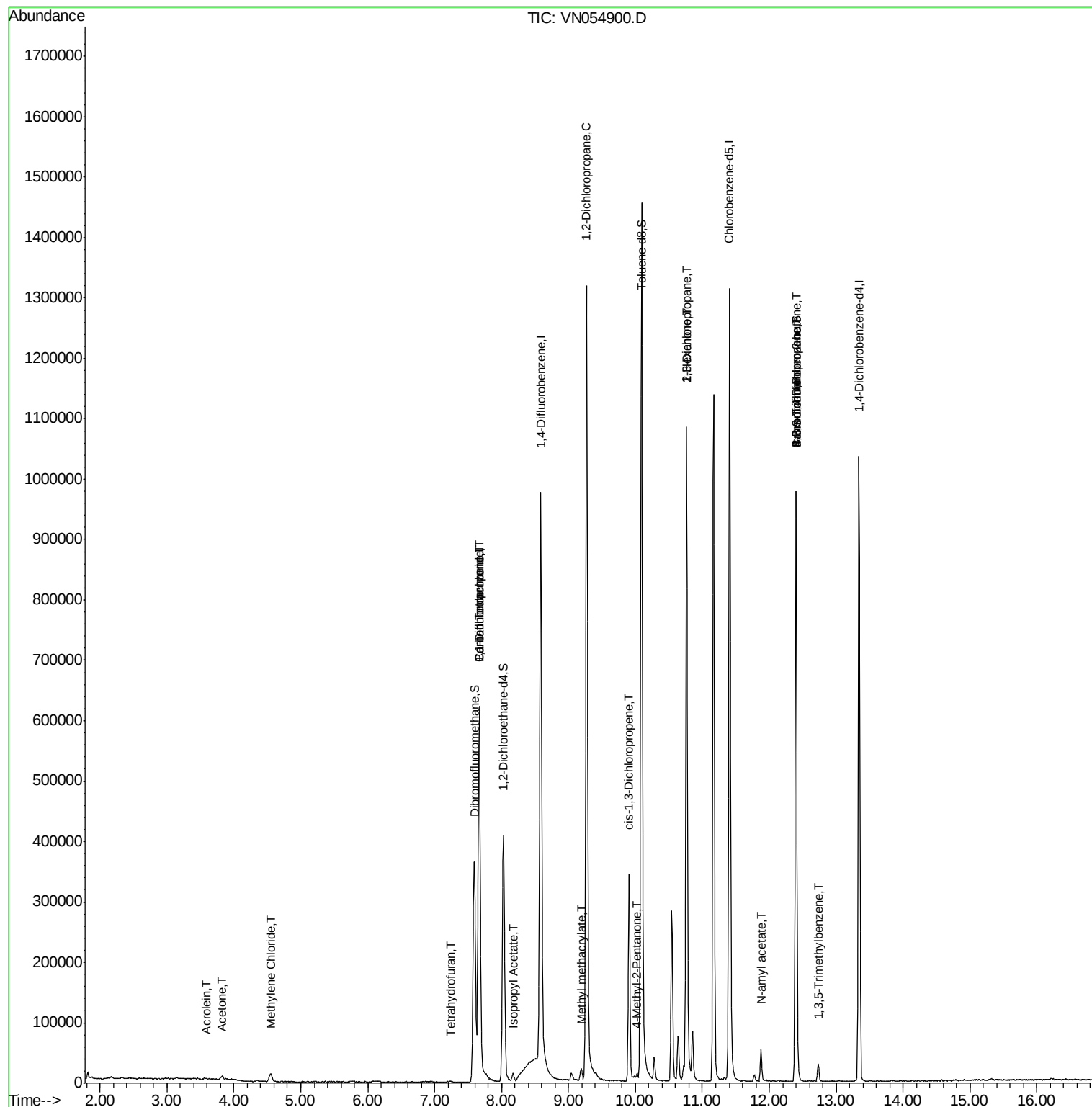
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	288	Below Cal	#	69
13) Acrolein	3.60	56	138	0.408	ug/l #	20
16) Acetone	3.82	43	5490	3.169	ug/l	92
18) Methyl Acetate	4.33	43	2497	Below Cal	#	68
20) Methylene Chloride	4.55	84	9231	1.510	ug/l #	77
29) Tetrahydrofuran	7.23	42	1421	0.799	ug/l #	55
31) Cyclohexane	7.66	56	11801	Below Cal	#	46
36) 1,1-Dichloropropene	7.67	75	40085	4.860	ug/l #	48
38) Carbon Tetrachloride	7.66	117	51794	6.465	ug/l #	15
43) Isopropyl Acetate	8.17	43	15671	1.594	ug/l #	91
45) 1,2-Dichloropropane	9.26	63	1781	0.265	ug/l #	43
48) Methyl methacrylate	9.18	41	7639	1.434	ug/l #	11
51) 4-Methyl-2-Pentanone	10.02	43	8983	1.626	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	57380	6.490	ug/l #	70
57) 1,3-Dichloropropane	10.76	76	10613	1.182	ug/l #	43
59) 2-Hexanone	10.76	43	181156	51.211	ug/l #	47
71) Bromoform	12.40	173	3794	1.139	ug/l #	1
74) N-amyl acetate	11.88	43	18369	2.604	ug/l #	51
75) 1,1,2,2-Tetrachloroethane	12.41	83	197	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	172717	35.886	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	15537	0.836	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	172717	139.587	ug/l #	11
83) tert-Butylbenzene	12.73	119	1812	Below Cal	#	52
94) Hexachlorobutadiene	15.01	225	97	Below Cal	#	19

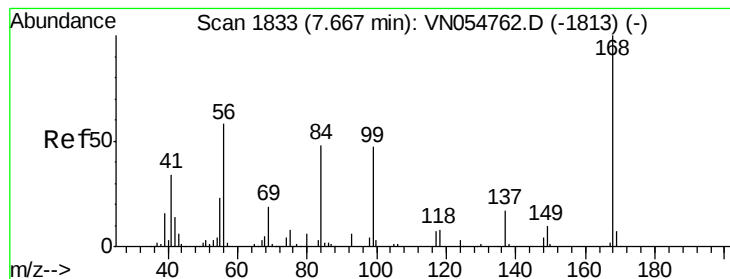
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Mar 30 00:48:18 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054900.D

Acq: 2 Apr 2019 14:31

Instrument :

MSVOA_N

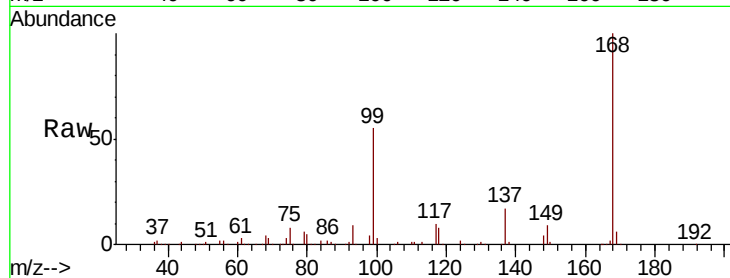
ClientSampled :

Tot Ion:168 Resp: 538990

Ion Ratio Lower Upper

168 100

99 54.5 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054762.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN054900.D (-1740) (-)

7.67

250000

200000

150000

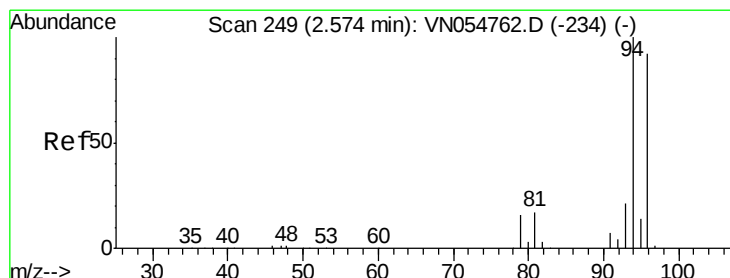
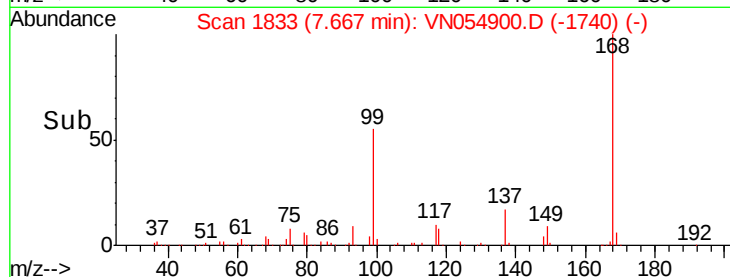
100000

50000

0

7.60 7.65 7.70 7.75 7.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN054900.D

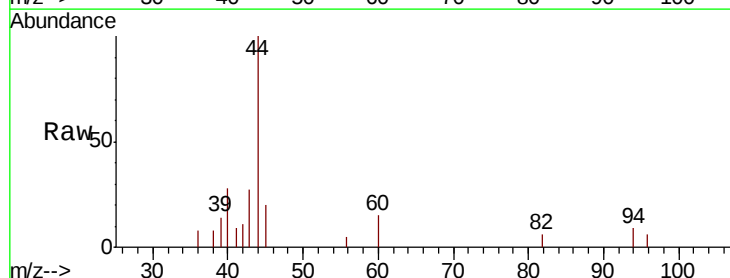
Acq: 2 Apr 2019 14:31

Tgt Ion: 94 Resp: 288

Ion Ratio Lower Upper

94 100

96 66.2 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN054762.D (-234) (-)

Ion 95.90 (95.60 to 96.60): VN054900.D (-156) (-)

2.58

300

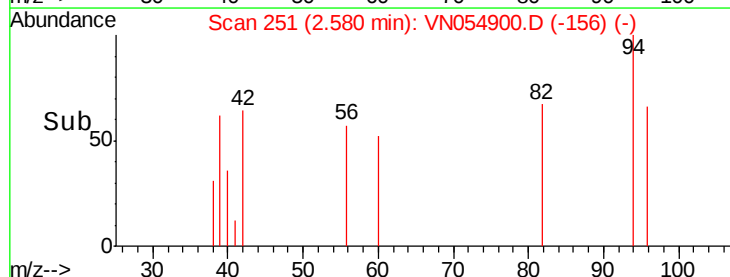
200

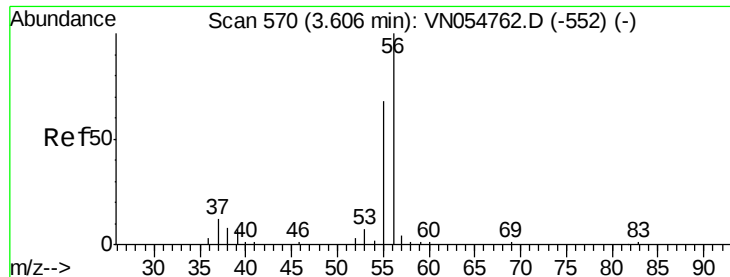
100

0

2.55 2.56 2.57 2.58 2.59

Time-->

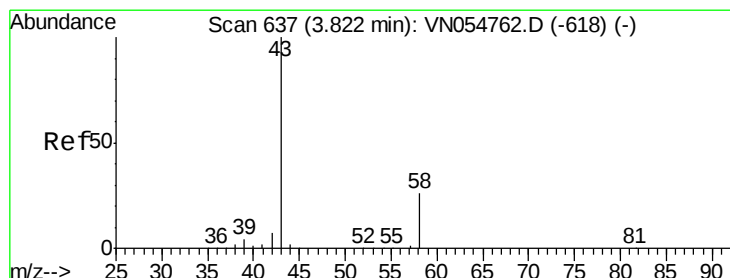
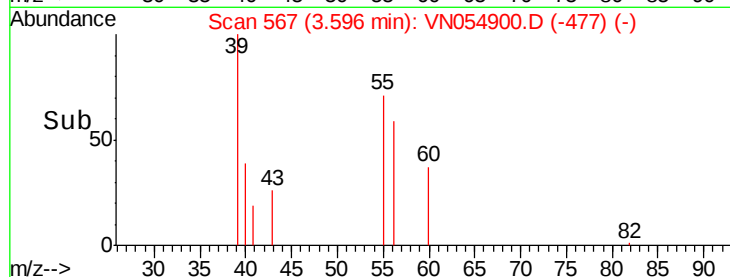
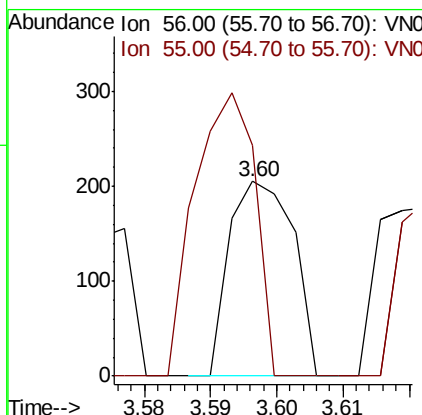
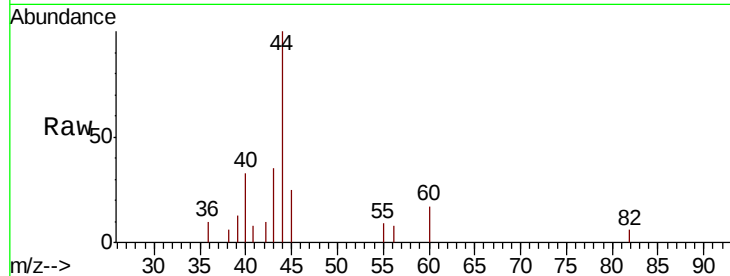




#13
Acrolein
Concen: 0.408 ug/l
RT: 3.60 min Scan# 567
Delta R.T. -0.01 min
Lab File: VN054900.D
Acq: 2 Apr 2019 14:31

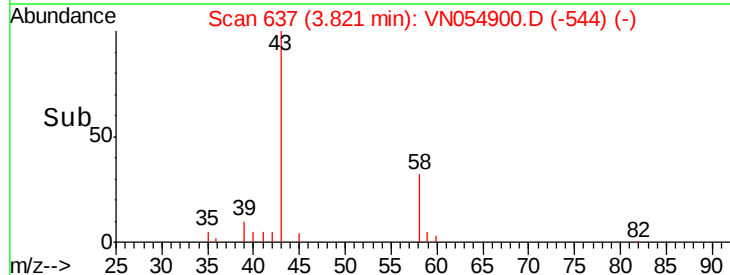
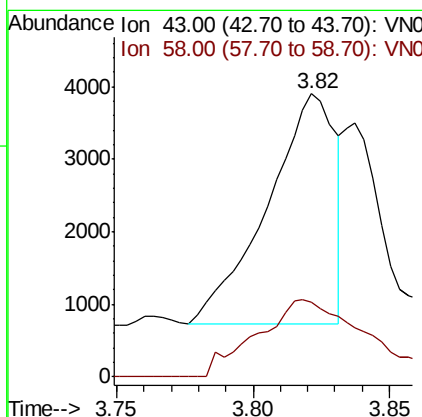
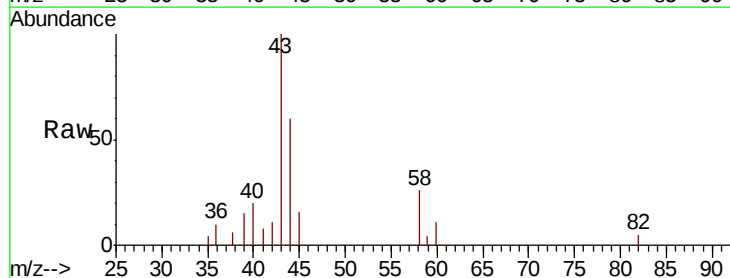
Instrument :
MSVOA_N
ClientSampled :

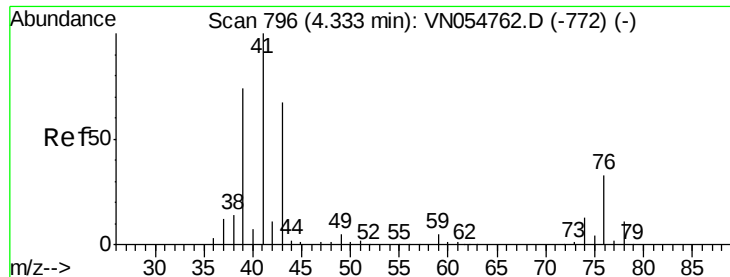
Tot Ion: 56 Resp: 138
Ion Ratio Lower Upper
56 100
55 137.0 56.7 85.1#



#16
Acetone
Concen: 3.169 ug/l
RT: 3.82 min Scan# 637
Delta R.T. -0.00 min
Lab File: VN054900.D
Acq: 2 Apr 2019 14:31

Tgt Ion: 43 Resp: 5490
Ion Ratio Lower Upper
43 100
58 32.3 29.9 44.9

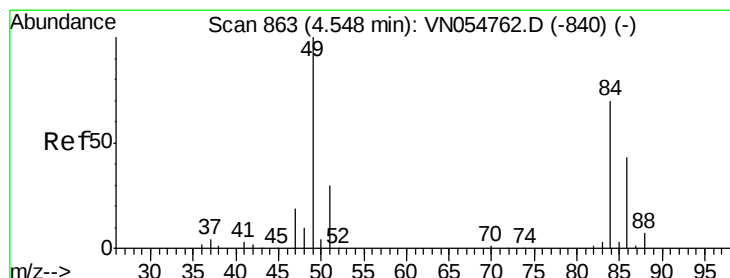
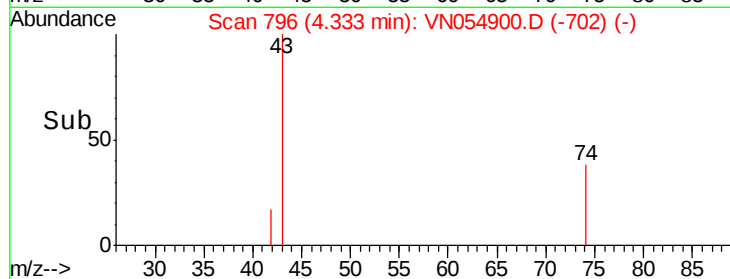
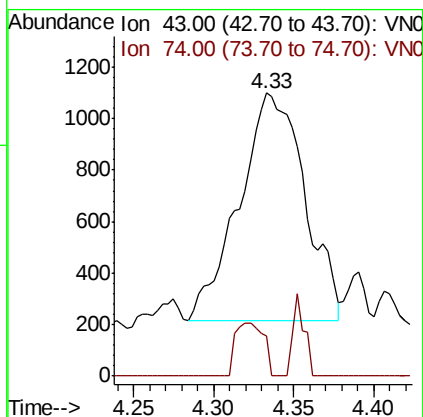
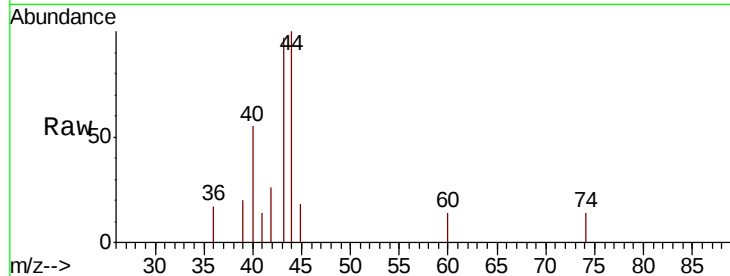




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054900.D
Acq: 2 Apr 2019 14:31

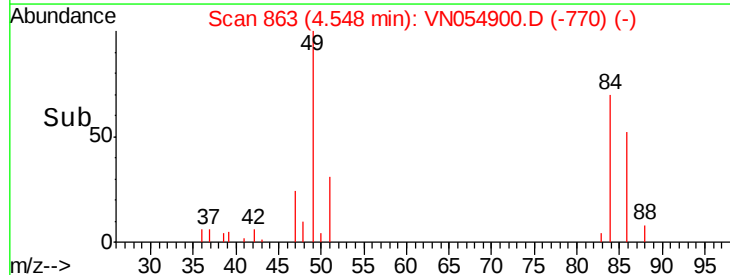
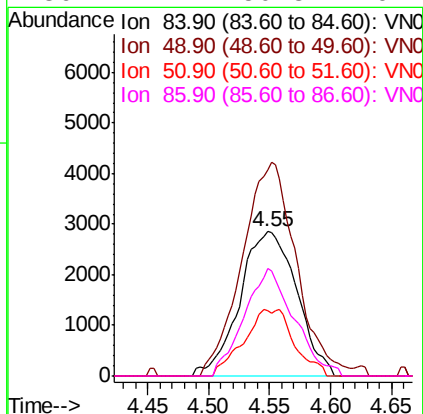
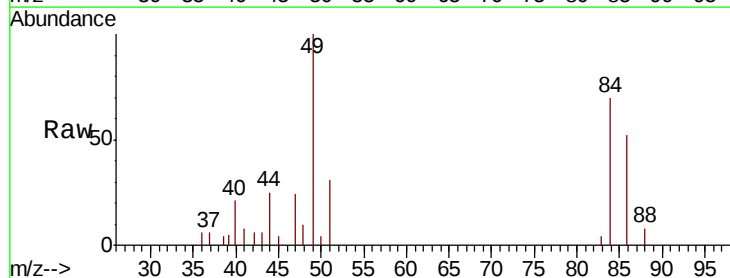
Instrument :
MSVOA_N
ClientSampled :

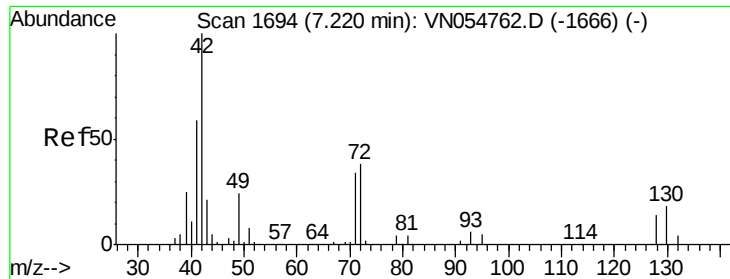
Tot Ion: 43 Resp: 2497
Ion Ratio Lower Upper
43 100
74 9.9 20.8 31.2#



#20
Methylene Chloride
Concen: 1.510 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN054900.D
Acq: 2 Apr 2019 14:31

Tgt Ion: 84 Resp: 9231
Ion Ratio Lower Upper
84 100
49 143.4 89.7 134.5#
51 45.1 28.2 42.4#
86 74.2 50.8 76.2





#29

Tetrahydrofuran

Concen: 0.799 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.01 min

Lab File: VN054900.D

Acq: 2 Apr 2019 14:31

Instrument :

MSVOA_N

ClientSampleId :

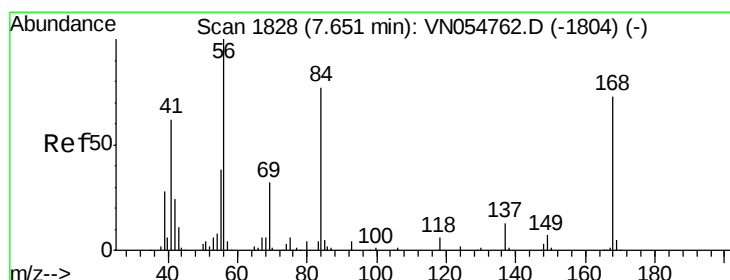
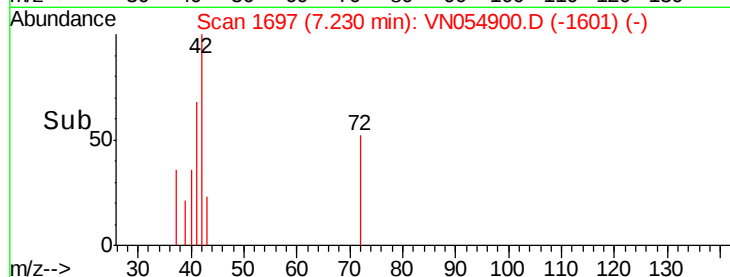
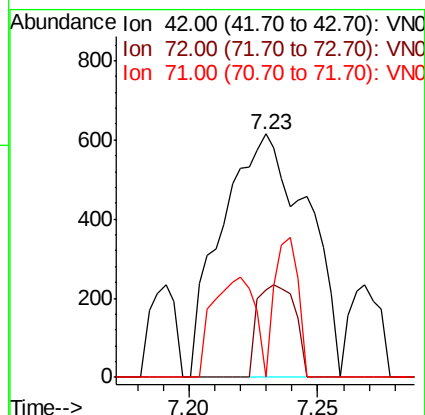
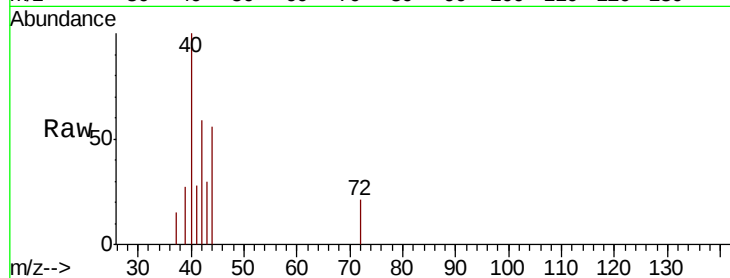
Tot Ion: 42 Resp: 1421

Ion Ratio Lower Upper

42 100

72 16.8 37.8 56.6#

71 15.8 36.2 54.2#



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054900.D

Acq: 2 Apr 2019 14:31

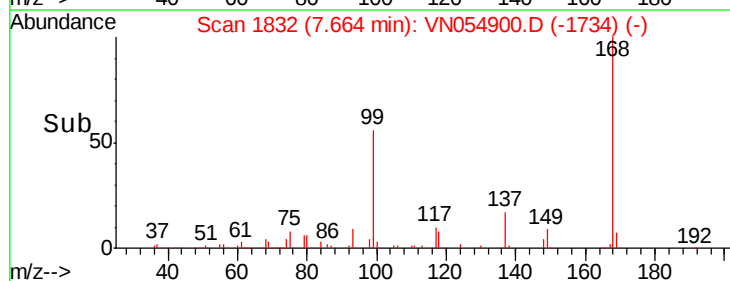
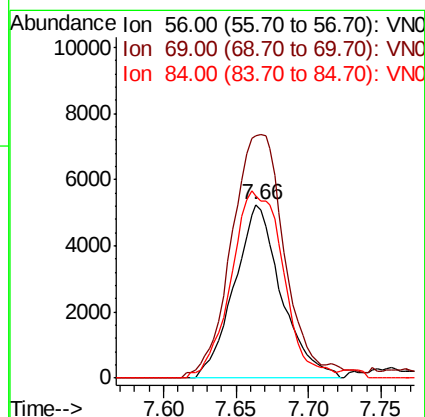
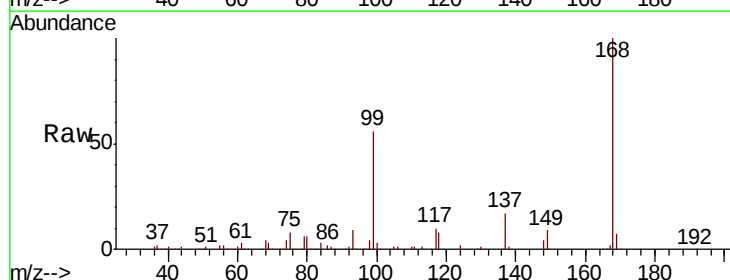
Tgt Ion: 56 Resp: 11801

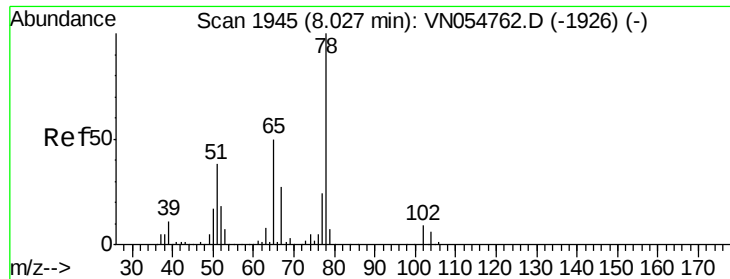
Ion Ratio Lower Upper

56 100

69 135.6 27.8 41.6#

84 101.9 74.6 111.8

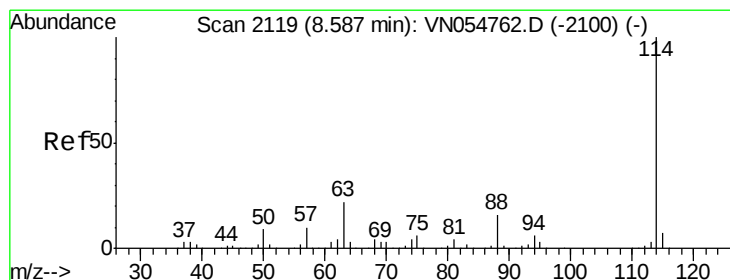
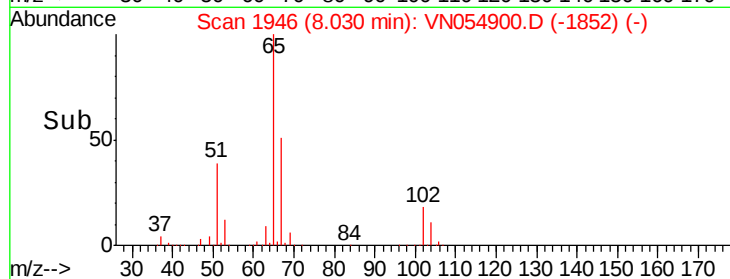
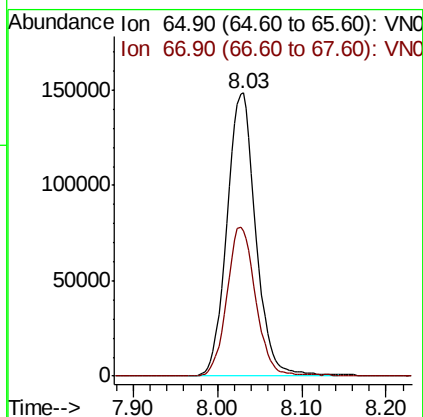
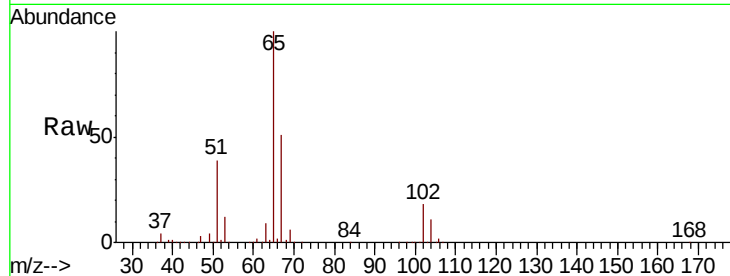




#33
 1,2-Dichloroethane-d4
 Concen: 48.560 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN054900.D
 Acq: 2 Apr 2019 14:31

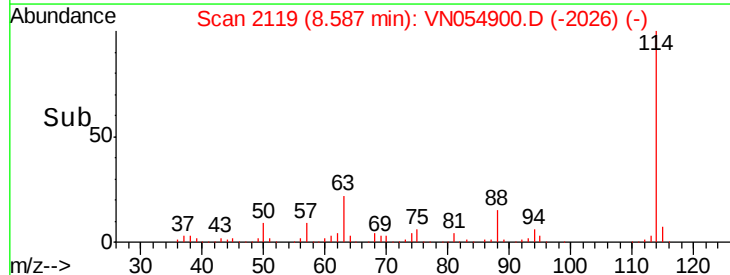
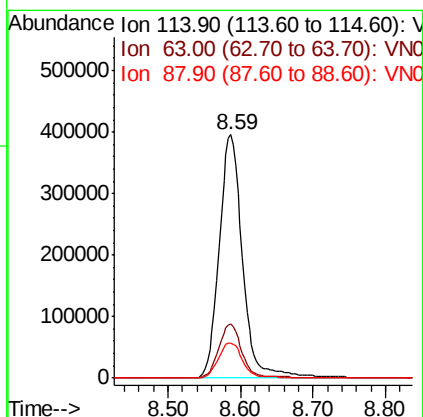
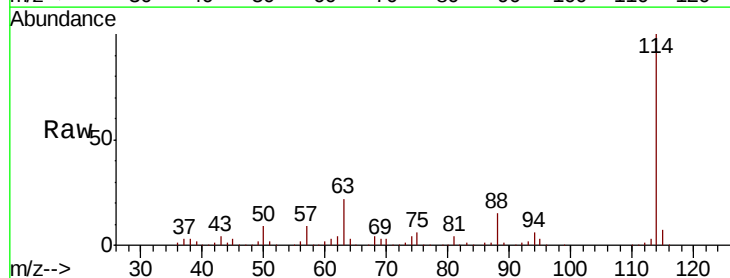
Instrument :
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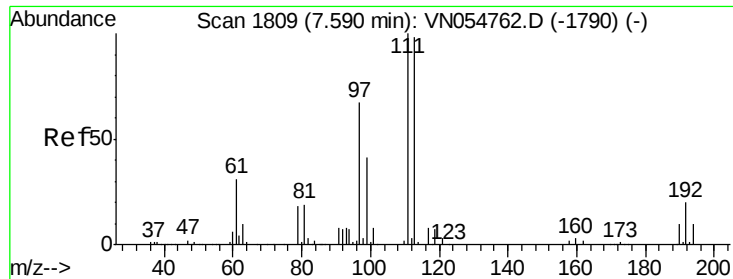
Tot Ion: 65 Resp: 352821
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054900.D
 Acq: 2 Apr 2019 14:31

Tgt Ion: 114 Resp: 885223
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 35.2
 88 14.6 0.0 30.2





#35

Dibromofluoromethane

Concen: 47.168 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN054900.D

Acq: 2 Apr 2019 14:31

Instrument :

MSVOA_N

ClientSampled :

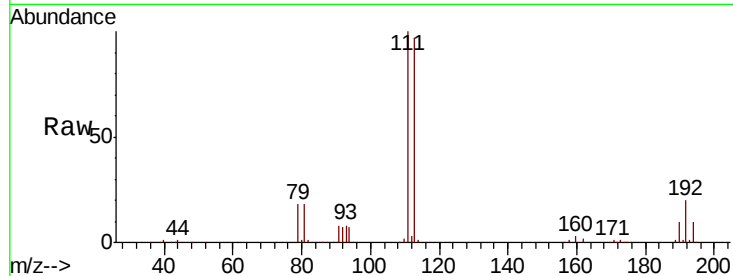
Tot Ion:113 Resp: 278372

Ion Ratio Lower Upper

113 100

111 103.3 82.2 123.4

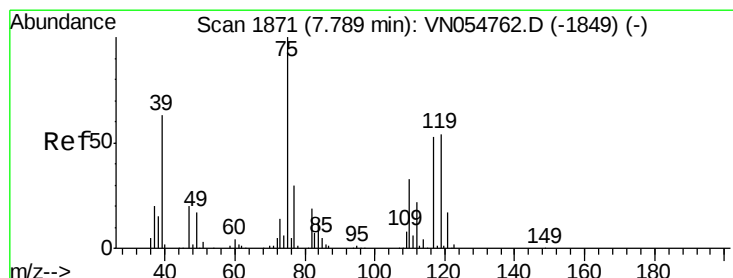
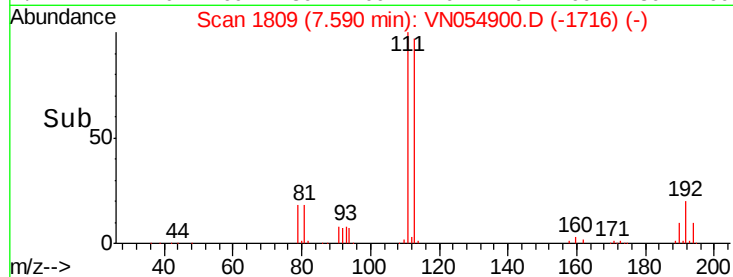
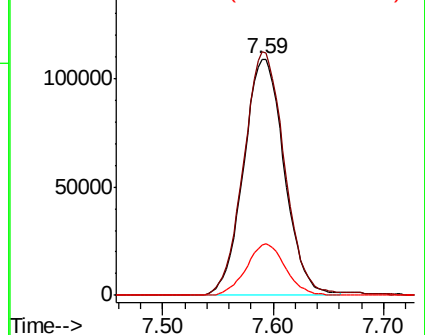
192 21.1 19.2 28.8



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: 4.860 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.12 min

Lab File: VN054900.D

Acq: 2 Apr 2019 14:31

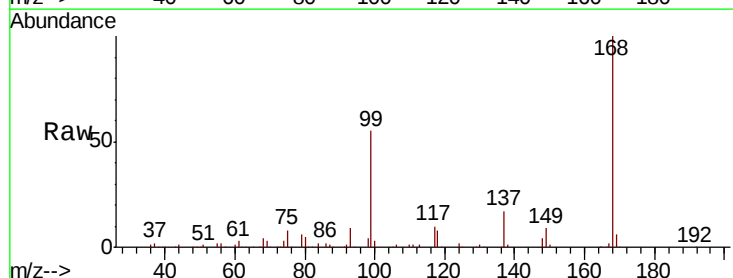
Tgt Ion: 75 Resp: 40085

Ion Ratio Lower Upper

75 100

110 8.9 19.1 57.5#

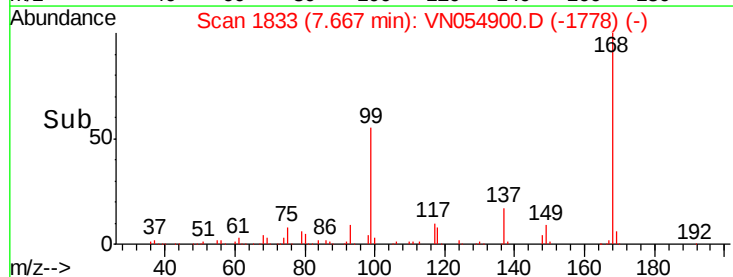
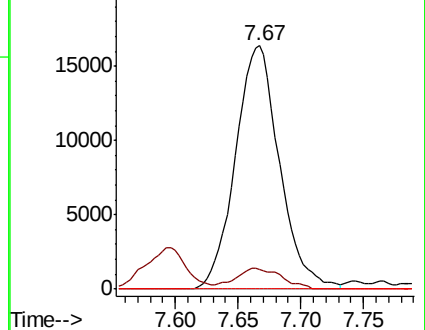
77 0.0 25.0 37.4#

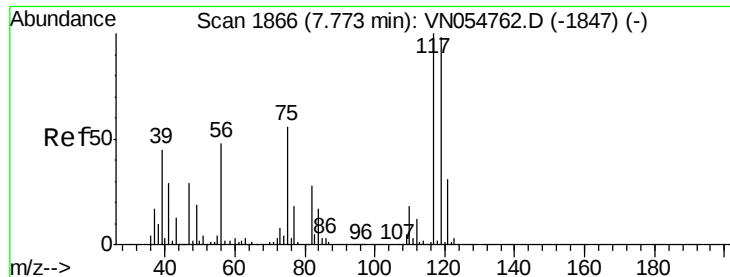


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.465 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054900.D

Acq: 2 Apr 2019 14:31

Instrument :

MSVOA_N

ClientSampleId :

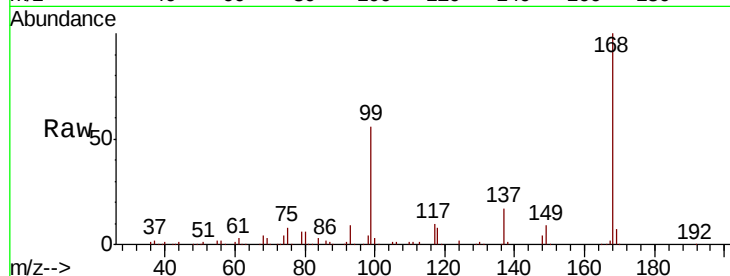
Tot Ion:117 Resp: 51794

Ion Ratio Lower Upper

117 100

119 3.2 76.3 114.5#

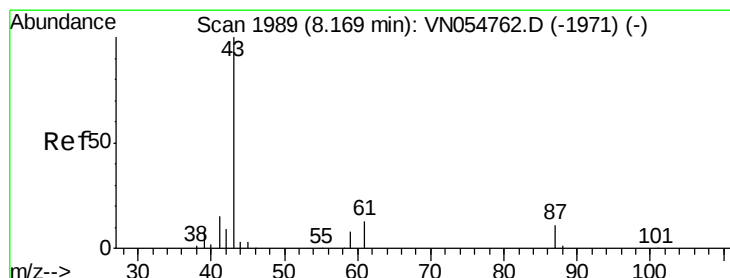
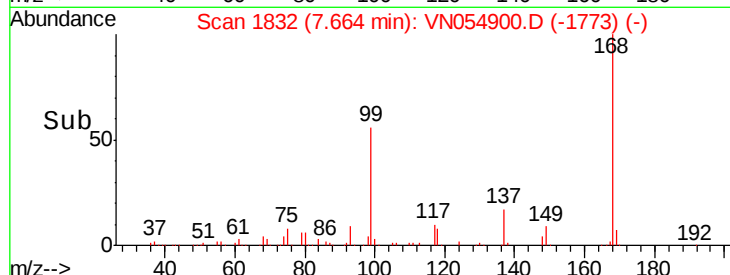
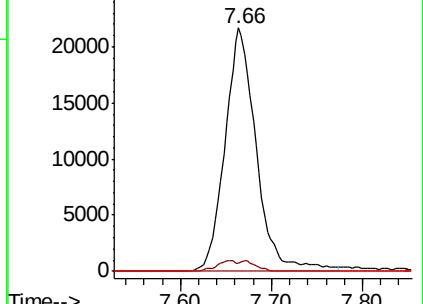
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.594 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. -0.00 min

Lab File: VN054900.D

Acq: 2 Apr 2019 14:31

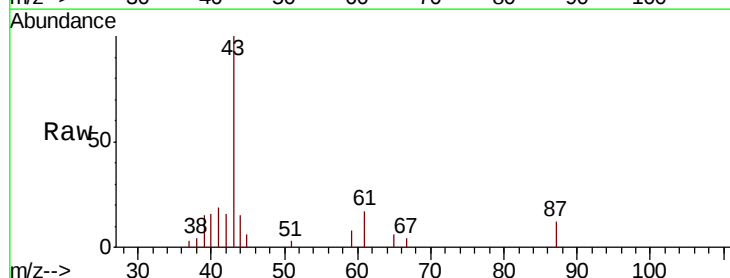
Tgt Ion: 43 Resp: 15671

Ion Ratio Lower Upper

43 100

61 16.4 15.8 23.8

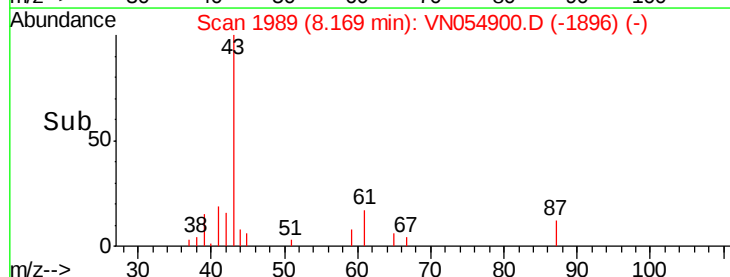
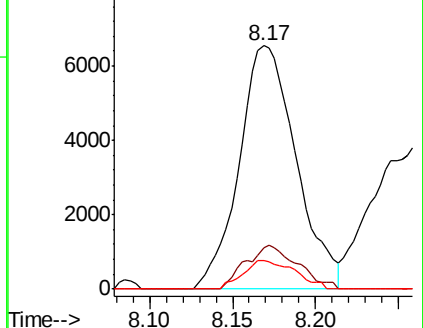
87 10.7 12.0 18.0#

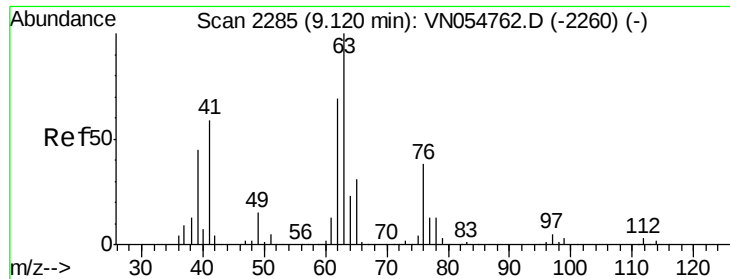


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.265 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN054900.D

Acq: 2 Apr 2019 14:31

Instrument :

MSVOA_N

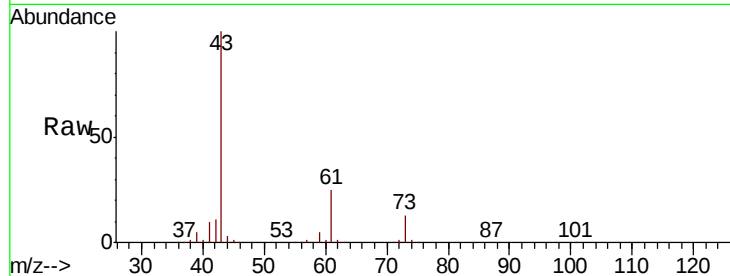
ClientSampleId :

Tot Ion: 63 Resp: 1781

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.26

800

600

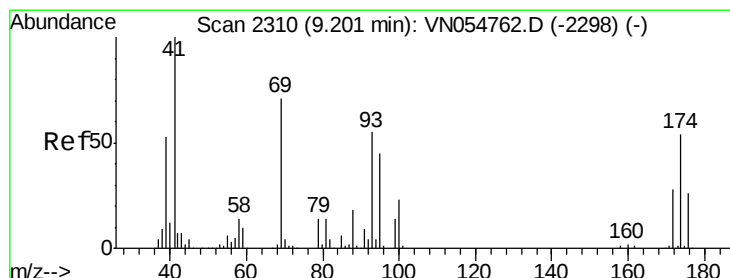
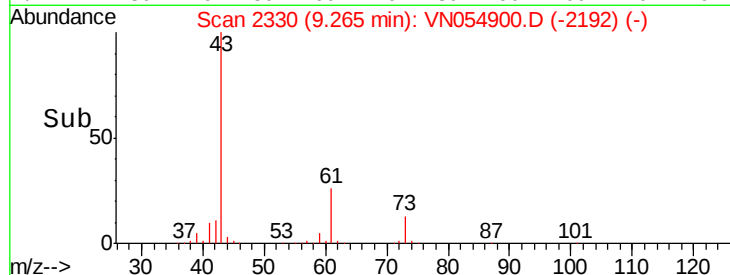
400

200

0

9.25 9.30

Time-->



#48

Methyl methacrylate

Concen: 1.434 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN054900.D

Acq: 2 Apr 2019 14:31

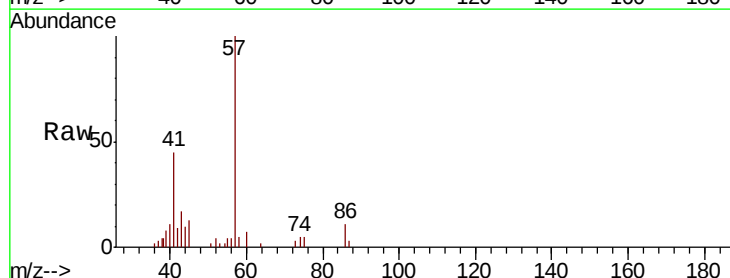
Tgt Ion: 41 Resp: 7639

Ion Ratio Lower Upper

41 100

69 0.0 72.6 108.8#

39 0.0 47.5 71.3#



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

80000

60000

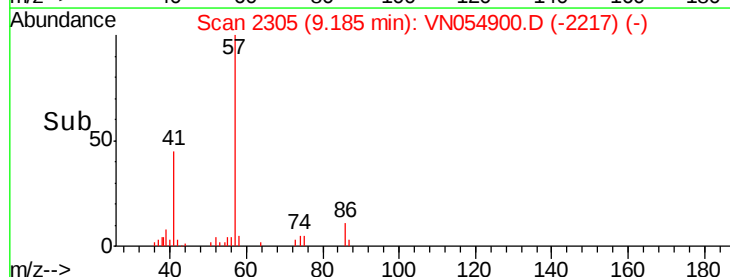
40000

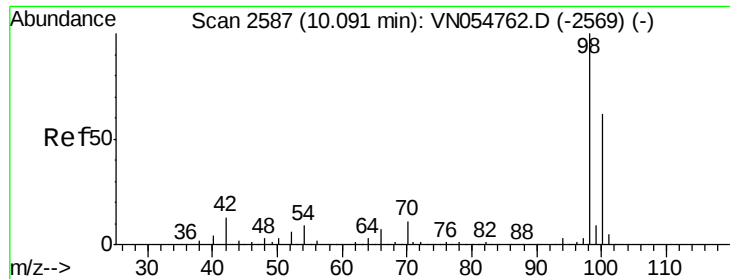
20000

0

9.10 9.15 9.20 9.25

Time-->





#50

Toluene-d8

Concen: 49.030 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054900.D

Acq: 2 Apr 2019 14:31

Instrument :

MSVOA_N

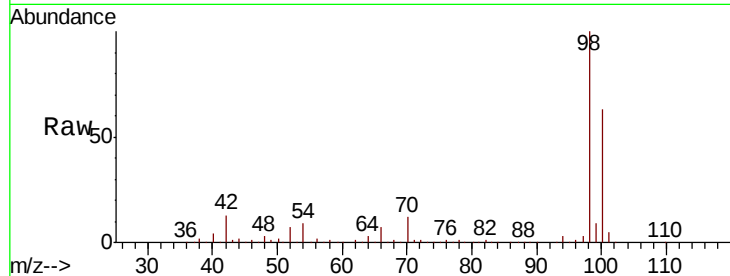
ClientSampled :

Tot Ion: 98 Resp: 1075789

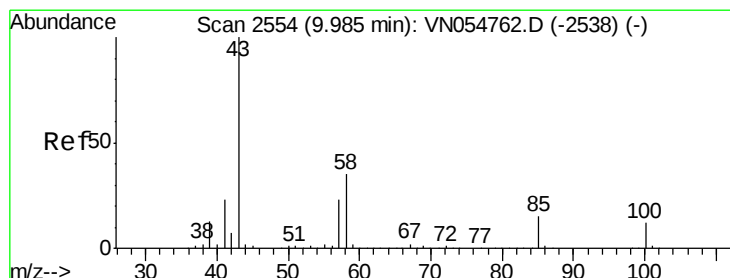
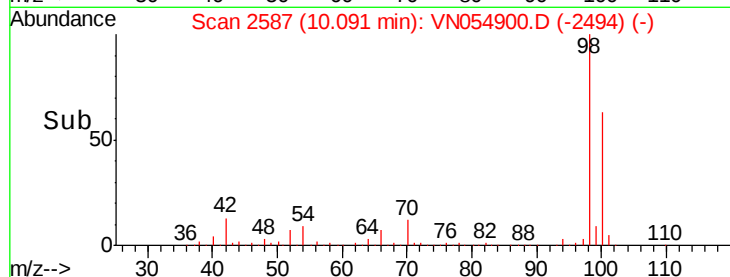
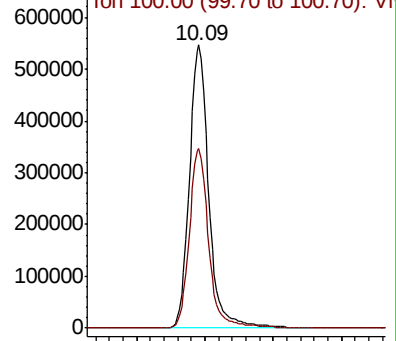
Ion Ratio Lower Upper

98 100

100 63.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054762.D (-2569) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.626 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN054900.D

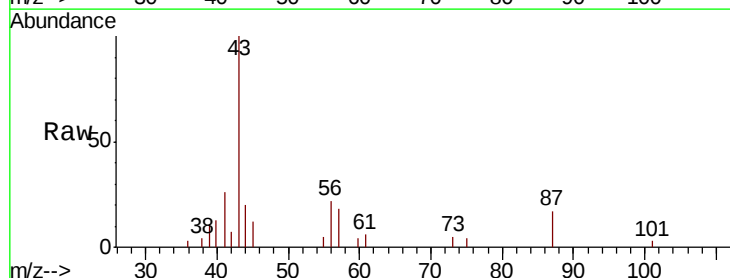
Acq: 2 Apr 2019 14:31

Tgt Ion: 43 Resp: 8983

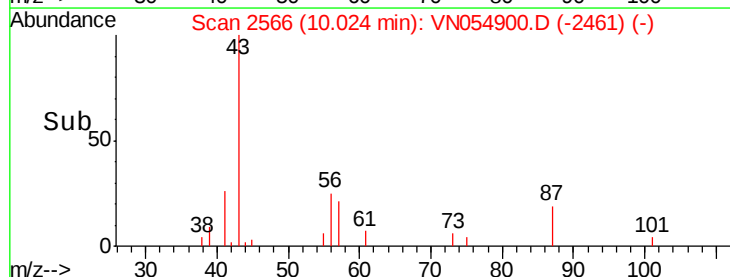
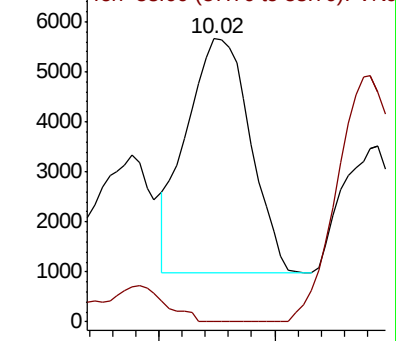
Ion Ratio Lower Upper

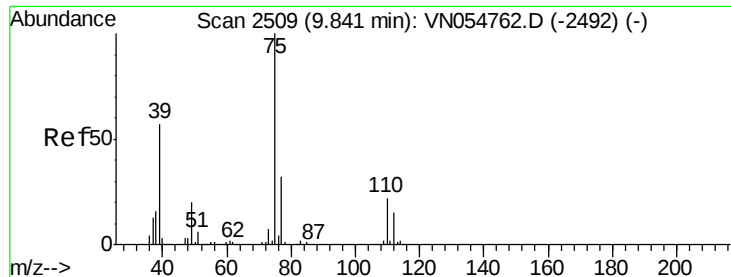
43 100

58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN054762.D (-2538) (-)



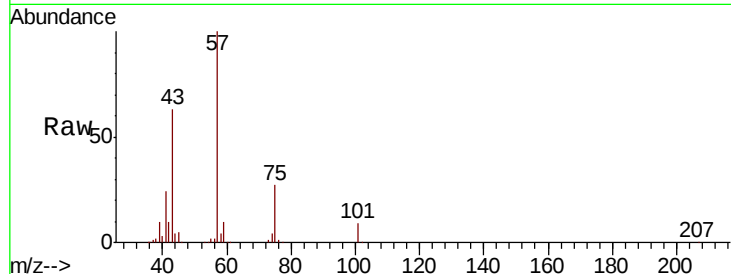


#54

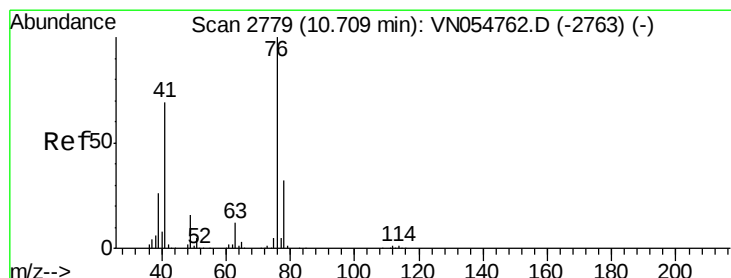
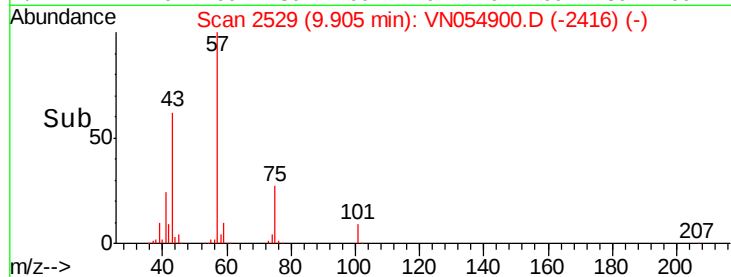
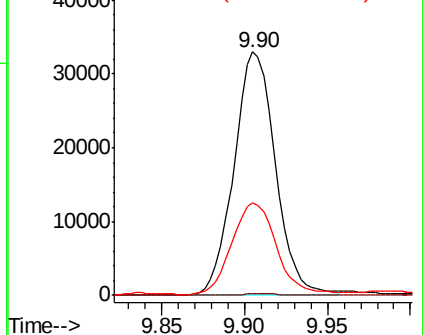
cis-1,3-Dichloropropene
 Concen: 6.490 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN054900.D
 Acq: 2 Apr 2019 14:31

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 57380
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.4 38.0#
 39 37.9 37.2 55.8



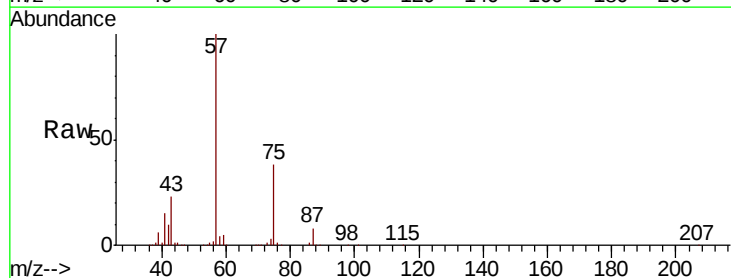
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



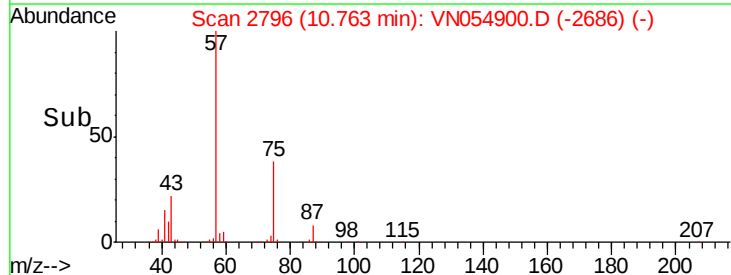
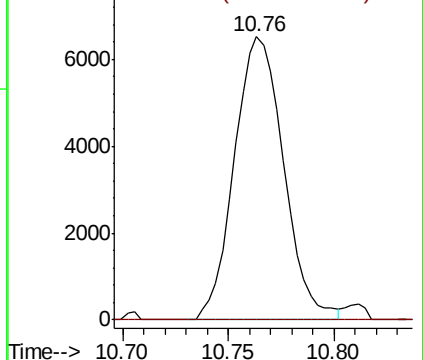
#57

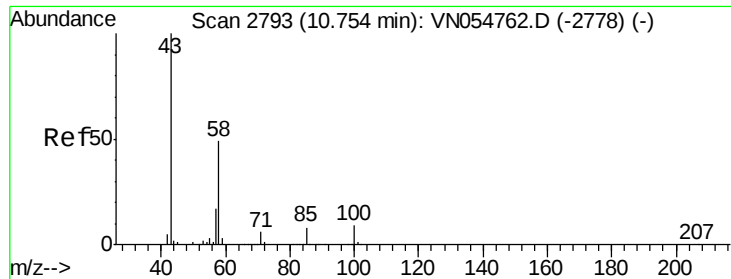
1,3-Dichloropropane
 Concen: 1.182 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN054900.D
 Acq: 2 Apr 2019 14:31

Tgt Ion: 76 Resp: 10613
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

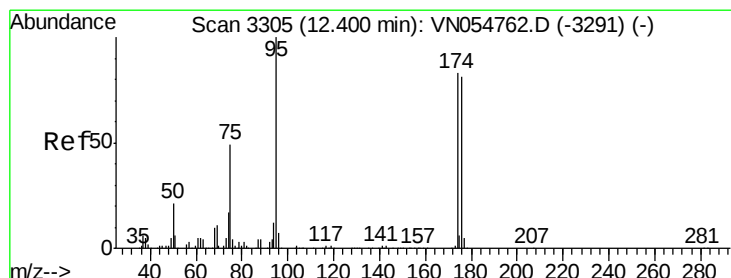
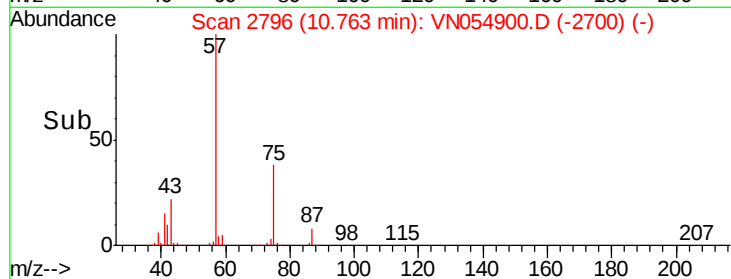
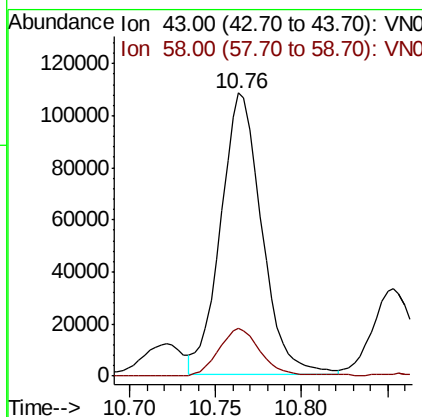
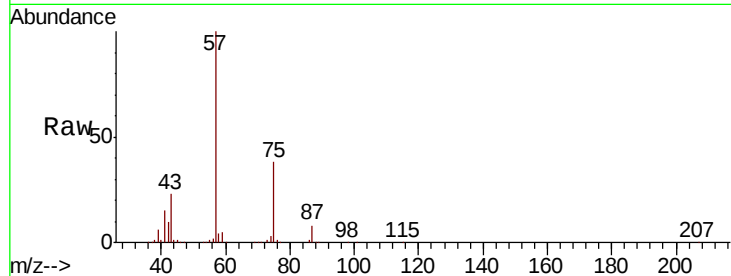




#59
2-Hexanone
Concen: 51.211 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN054900.D
Acq: 2 Apr 2019 14:31

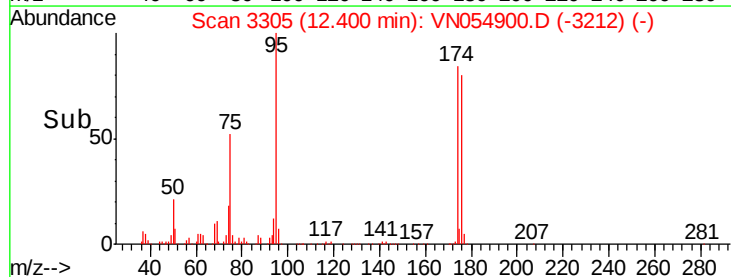
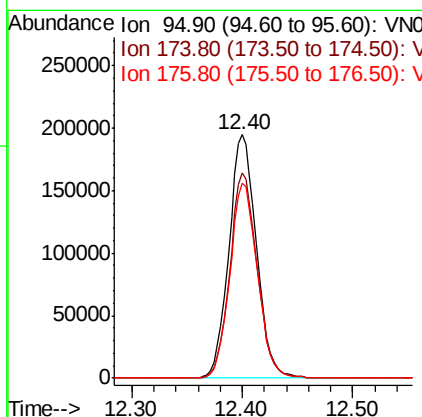
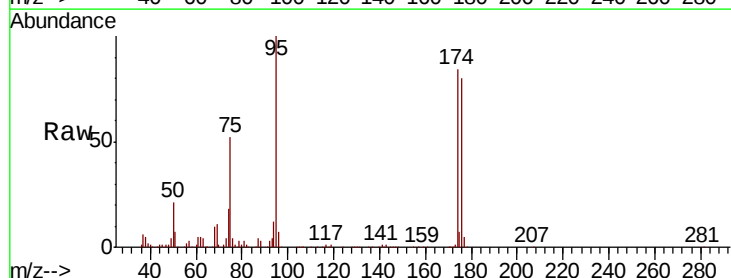
Instrument :
MSVOA_N
ClientSampleId :

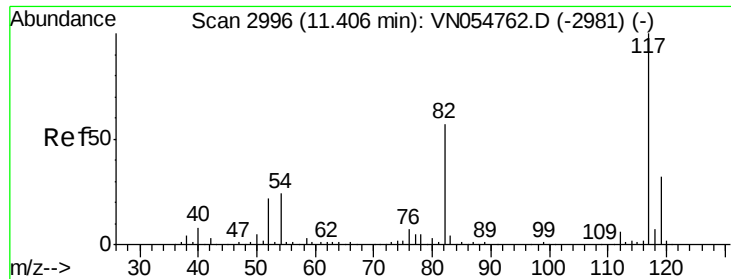
Tot Ion: 43 Resp: 181156
Ion Ratio Lower Upper
43 100
58 17.3 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 46.069 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054900.D
Acq: 2 Apr 2019 14:31

Tgt Ion: 95 Resp: 336173
Ion Ratio Lower Upper
95 100
174 83.7 0.0 191.0
176 80.4 0.0 187.4

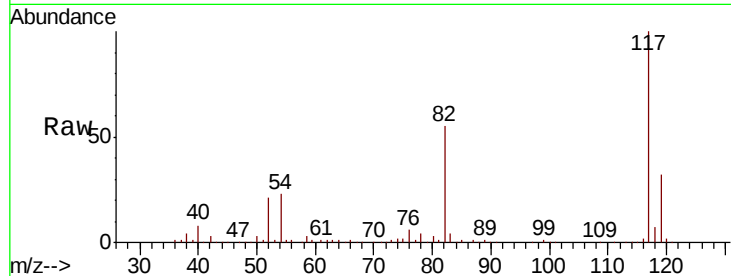




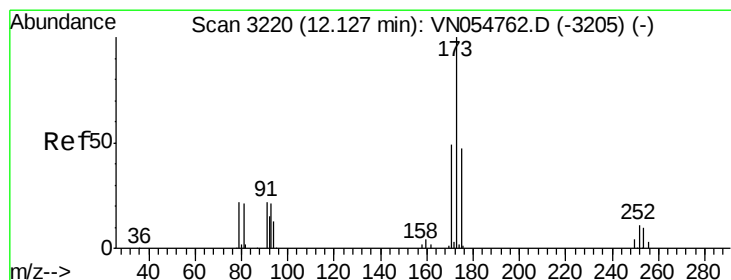
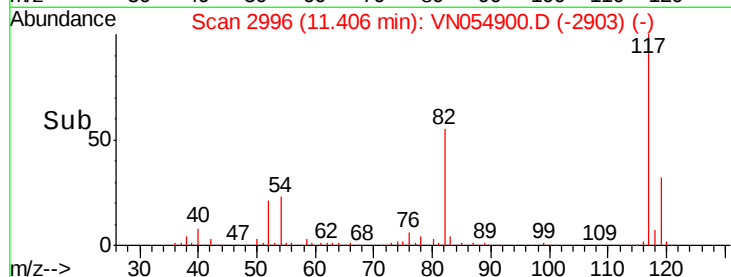
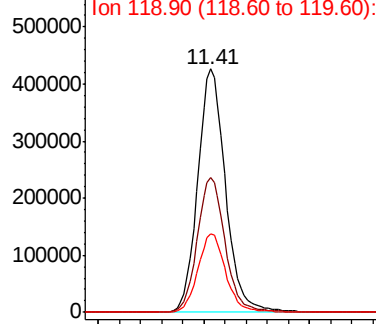
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054900.D
Acq: 2 Apr 2019 14:31

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 776209
Ion Ratio Lower Upper
117 100
82 55.4 40.0 60.0
119 32.5 25.8 38.6

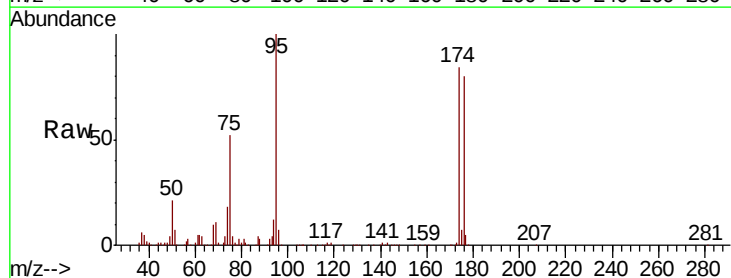


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

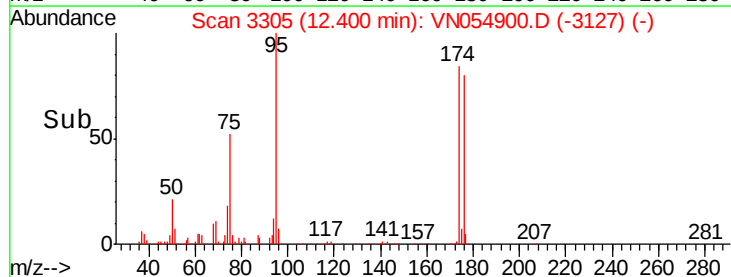
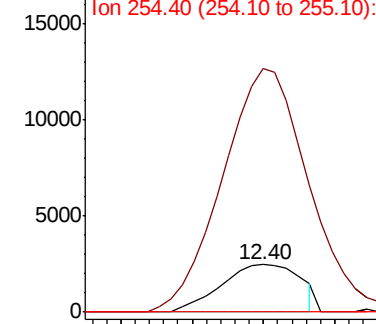


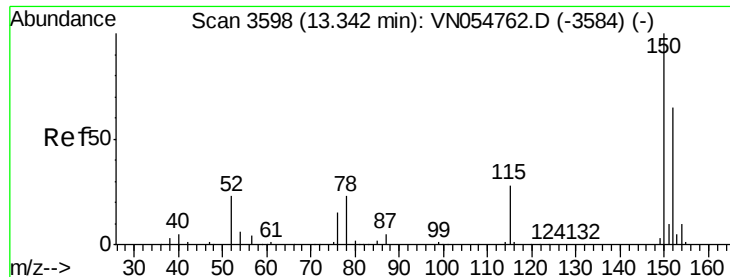
#71
Bromoform
Concen: 1.139 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN054900.D
Acq: 2 Apr 2019 14:31

Tgt Ion:173 Resp: 3794
Ion Ratio Lower Upper
173 100
175 493.1 24.4 73.2#
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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054900.D

Acq: 2 Apr 2019 14:31

Instrument :

MSVOA_N

ClientSampleId :

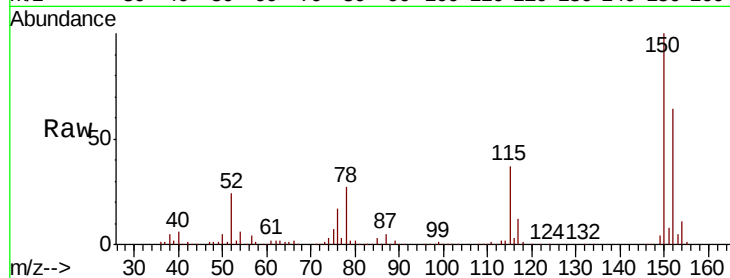
Tot Ion:152 Resp: 277048

Ion Ratio Lower Upper

152 100

115 57.7 27.2 81.6

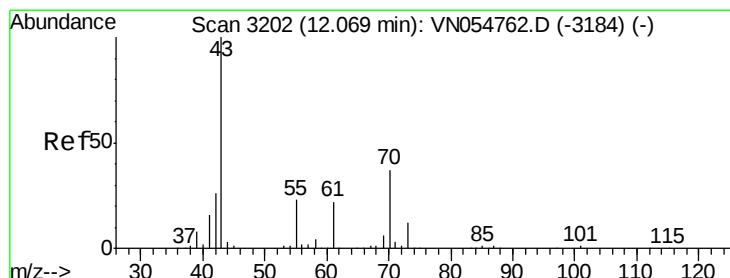
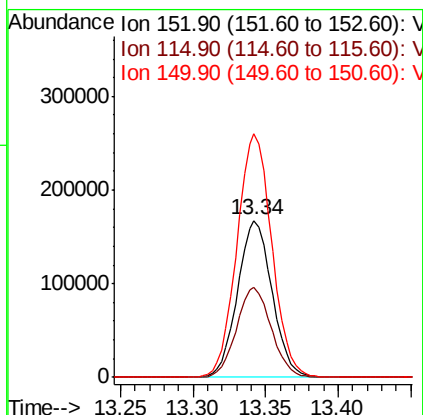
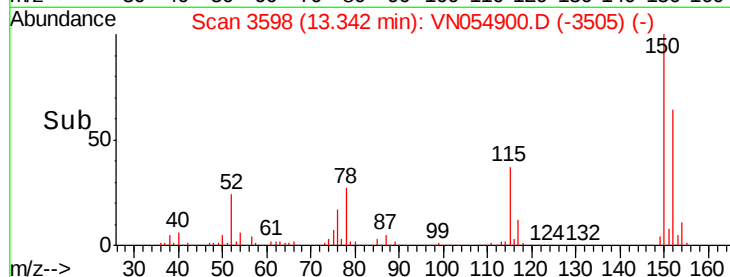
150 156.8 0.0 349.2



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: 2.604 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN054900.D

Acq: 2 Apr 2019 14:31

Tgt Ion: 43 Resp: 18369

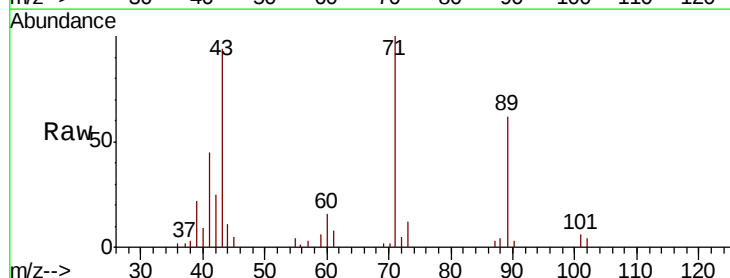
Ion Ratio Lower Upper

43 100

70 2.7 35.4 53.0#

55 3.8 19.8 29.6#

61 9.3 19.8 29.6#

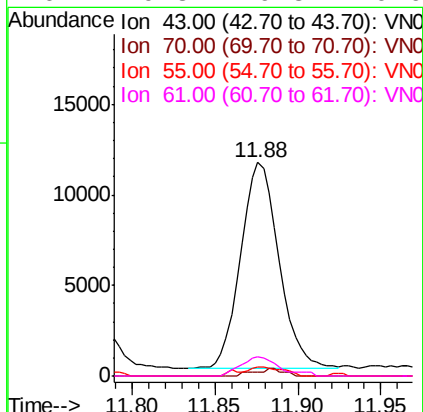
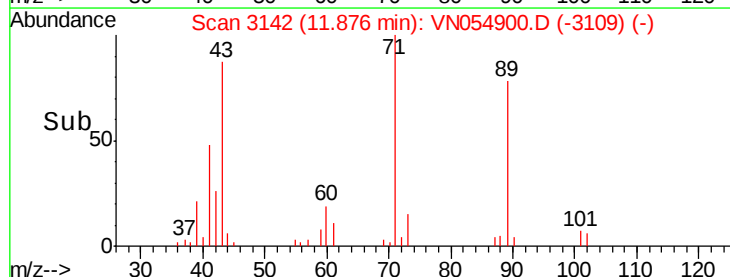


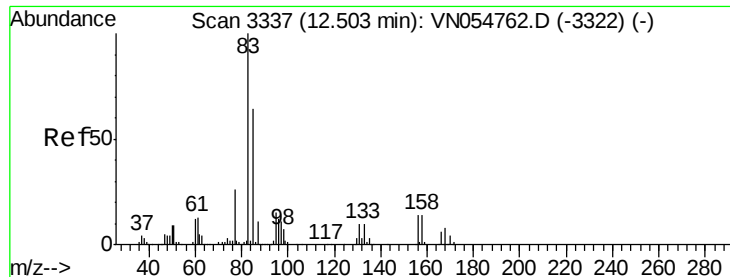
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.41 min Scan# 3307

Delta R.T. -0.10 min

Lab File: VN054900.D

Acq: 2 Apr 2019 14:31

Instrument :

MSVOA_N

ClientSampleId :

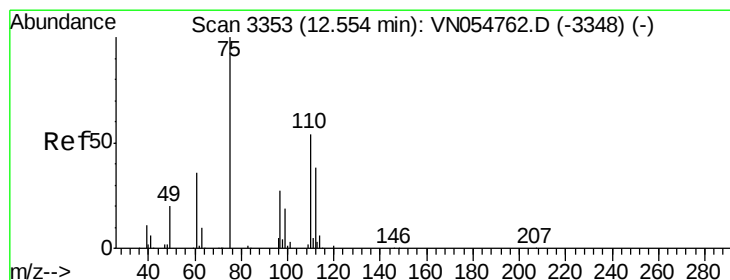
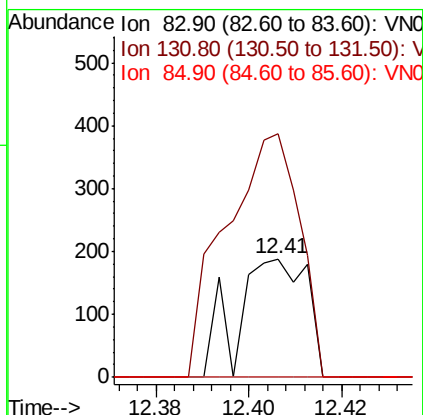
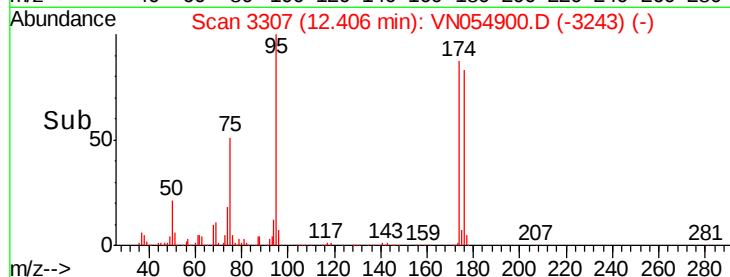
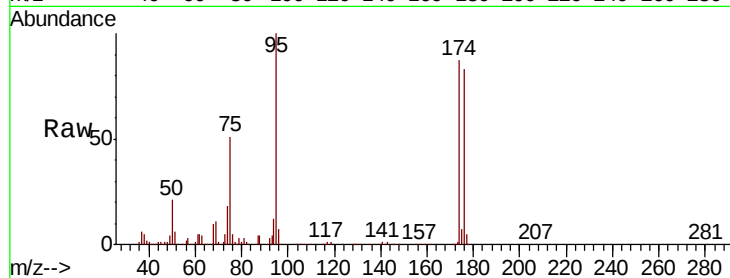
Tot Ion: 83 Resp: 197

Ion Ratio Lower Upper

83 100

131 218.3 5.8 17.4#

85 0.0 32.2 96.6#



#76

1,2,3-Trichloropropane

Concen: 35.886 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054900.D

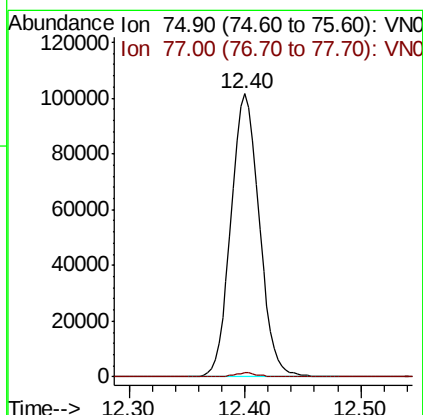
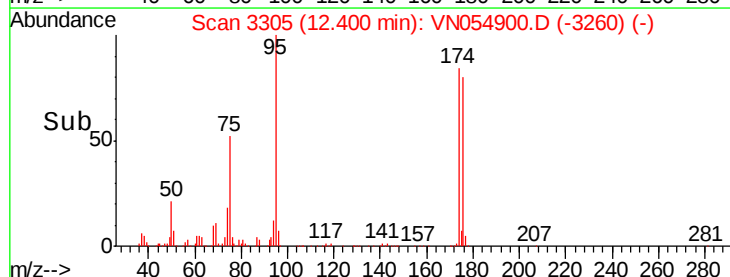
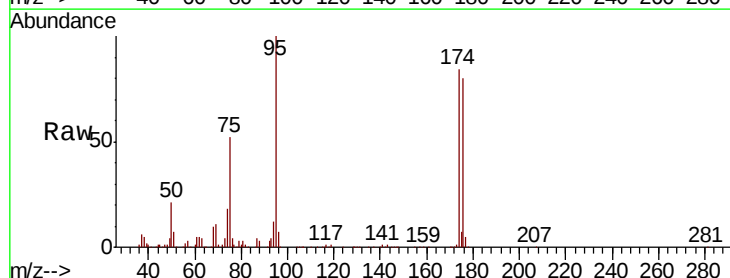
Acq: 2 Apr 2019 14:31

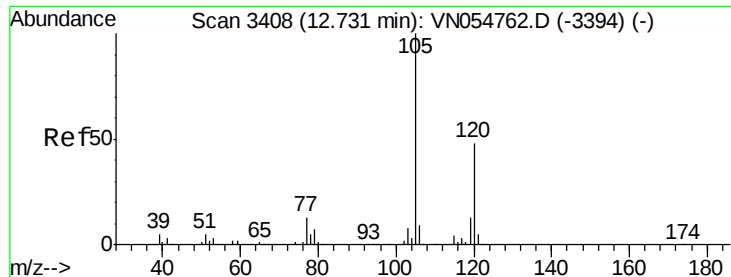
Tgt Ion: 75 Resp: 172717

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.836 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN054900.D

Acq: 2 Apr 2019 14:31

Instrument :

MSVOA_N

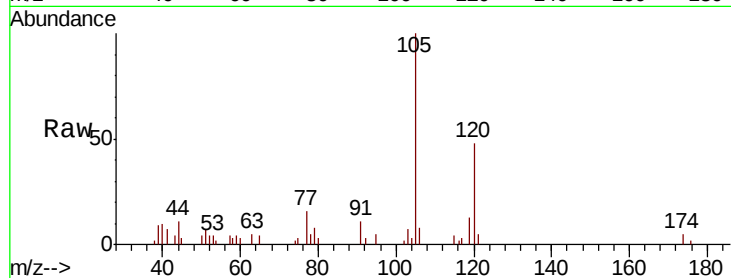
ClientSampled :

Tot Ion:105 Resp: 15537

Ion Ratio Lower Upper

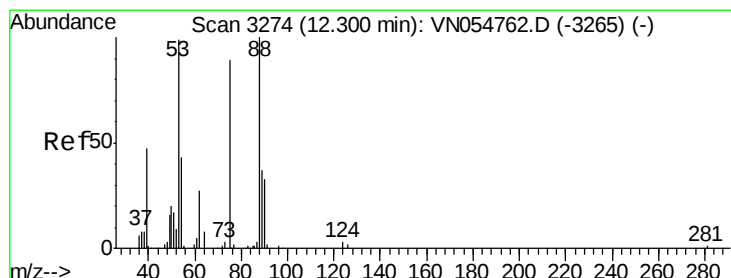
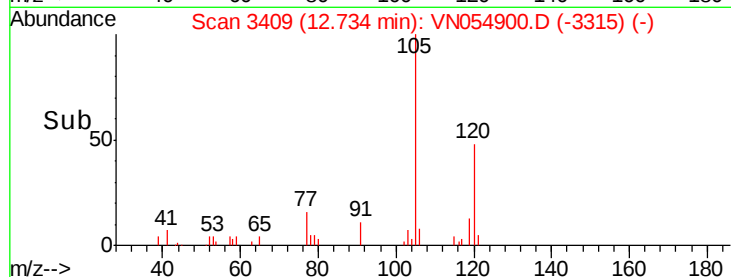
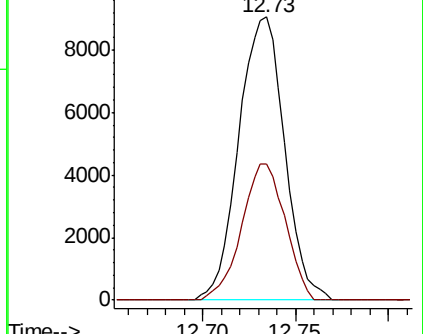
105 100

120 46.0 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 139.587 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054900.D

Acq: 2 Apr 2019 14:31

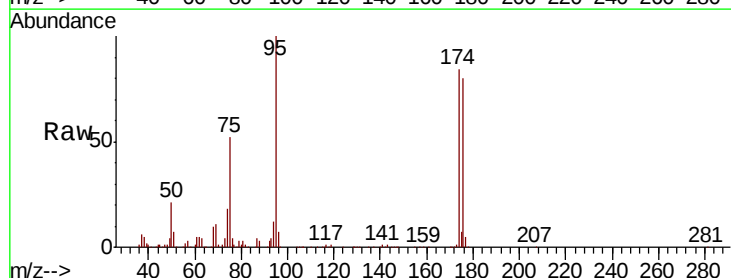
Tgt Ion: 75 Resp: 172717

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

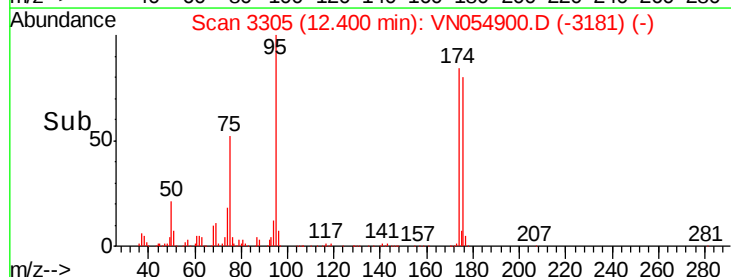
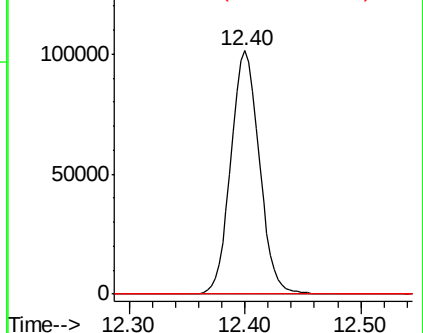
89 0.0 39.2 58.8#

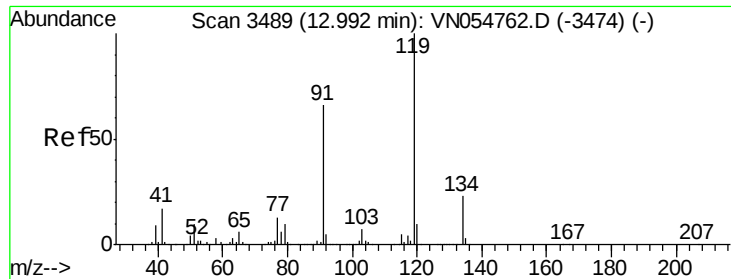


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

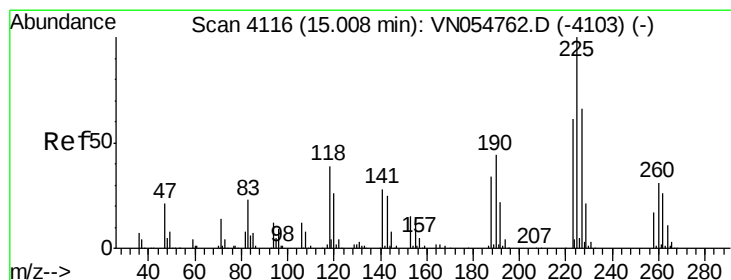
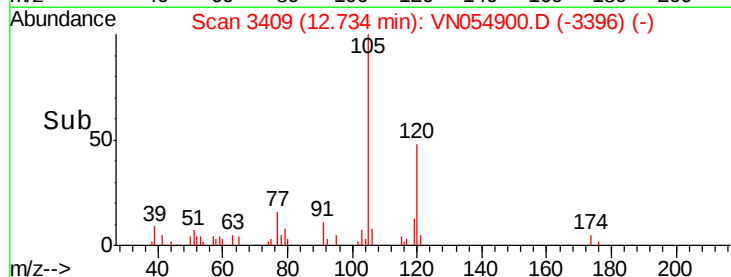
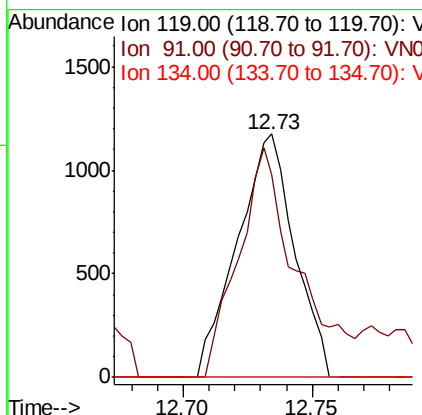
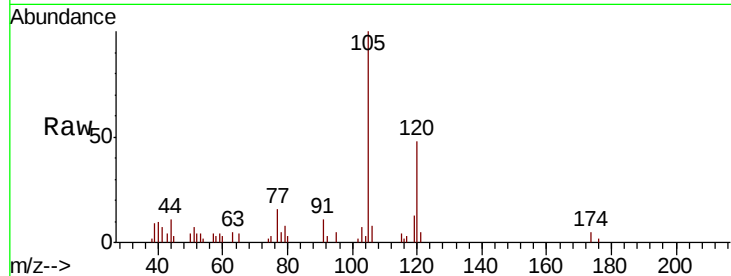




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3409
 Delta R.T. -0.26 min
 Lab File: VN054900.D
 Acq: 2 Apr 2019 14:31

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:119 Resp: 1812
 Ion Ratio Lower Upper
 119 100
 91 97.6 30.9 92.8#
 134 0.0 13.2 39.6#



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4116
 Delta R.T. 0.00 min
 Lab File: VN054900.D
 Acq: 2 Apr 2019 14:31

Tgt Ion:225 Resp: 97
 Ion Ratio Lower Upper
 225 100
 223 0.0 31.1 93.5#
 227 0.0 31.9 95.9#

