

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040119\
 Data File : VN054876.D
 Acq On : 1 Apr 2019 15:56
 Operator : JC/SP
 Sample : K2182-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S8A(12)

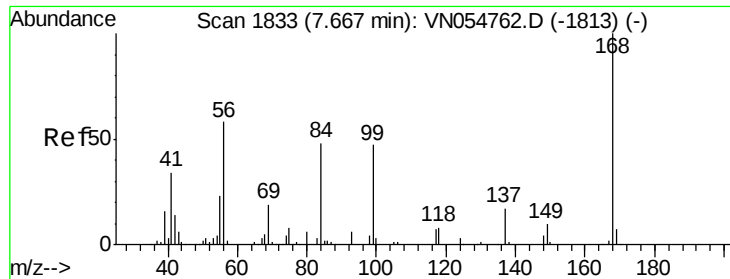
Quant Time: Apr 02 04:23:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	518422	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	844326	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	735371	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	251177	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	342796	49.05	ug/l	0.00
Spiked Amount			Recovery	=	98.10%	
35) Dibromofluoromethane	7.59	113	271111	48.16	ug/l	0.00
Spiked Amount			Recovery	=	96.32%	
50) Toluene-d8	10.09	98	1034584	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
62) 4-Bromofluorobenzene	12.40	95	314143	45.14	ug/l	0.00
Spiked Amount			Recovery	=	90.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	32	Below Cal	#	78
13) Acrolein	3.63	56	66	0.203	ug/l #	15
16) Acetone	3.83	43	8605	5.164	ug/l #	85
18) Methyl Acetate	4.33	43	2014	Below Cal	#	79
20) Methylene Chloride	4.55	84	21817	3.711	ug/l #	73
29) Tetrahydrofuran	7.21	42	536	0.313	ug/l #	30
31) Cyclohexane	7.66	56	11668	Below Cal	#	24
36) 1,1-Dichloropropene	7.66	75	39728	5.050	ug/l #	46
38) Carbon Tetrachloride	7.67	117	49330	6.456	ug/l #	16
43) Isopropyl Acetate	8.17	43	14818	1.581	ug/l #	93
45) 1,2-Dichloropropane	9.27	63	1658	0.258	ug/l #	43
48) Methyl methacrylate	9.18	41	7356	1.448	ug/l #	11
49) 1,4-Dioxane	9.27	88	66	1.309	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	7111	1.349	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	48245	5.721	ug/l #	73
57) 1,3-Dichloropropane	10.76	76	9434	1.102	ug/l #	43
59) 2-Hexanone	10.76	43	153910	45.616	ug/l #	46
71) Bromoform	12.40	173	2527	0.800	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.40	83	319	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	161893	37.101	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	161893	144.315	ug/l #	11

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN054876.D

Acq: 1 Apr 2019 15:56

Instrument :

MSVOA_N

ClientSampleId :

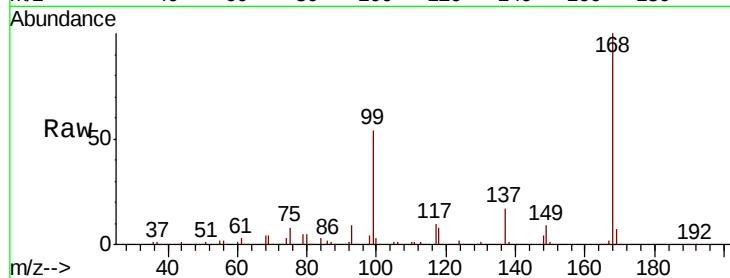
S8A(12)

Tot Ion:168 Resp: 518422

Ion Ratio Lower Upper

168 100

99 54.3 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN054876.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN054876.D (-1740) (-)

7.67

250000

200000

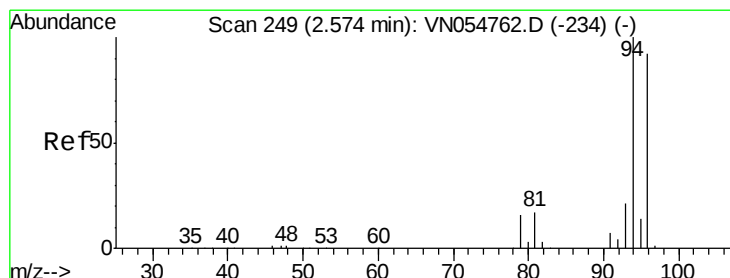
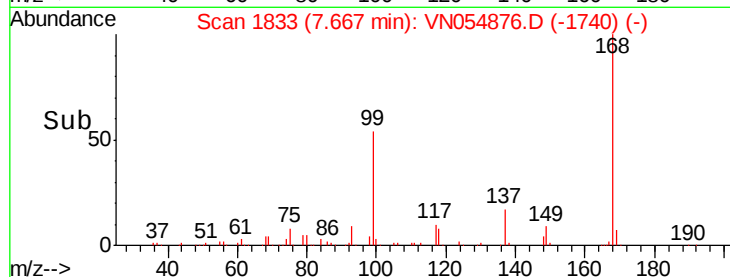
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 248

Delta R.T. -0.00 min

Lab File: VN054876.D

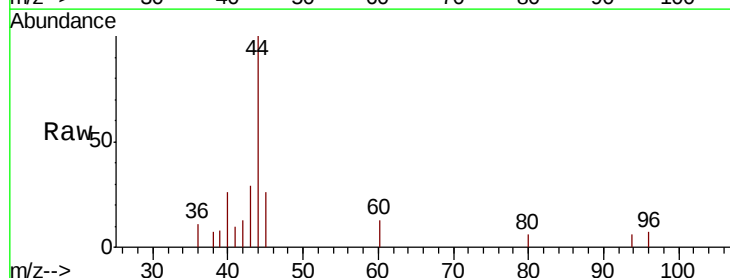
Acq: 1 Apr 2019 15:56

Tgt Ion: 94 Resp: 32

Ion Ratio Lower Upper

94 100

96 117.9 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN054876.D (-156) (-)

Ion 95.90 (95.60 to 96.60): VN054876.D (-156) (-)

2.57

250

200

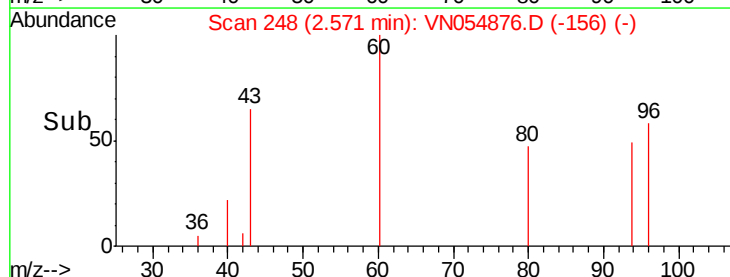
150

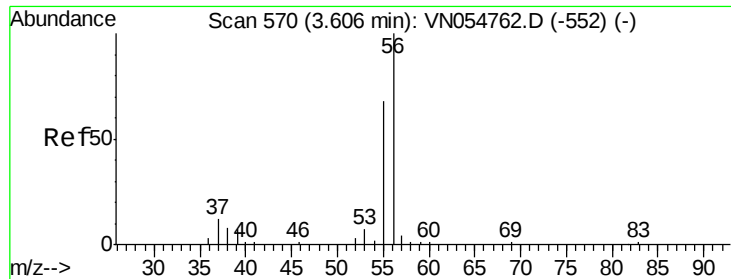
100

50

0

Time-->

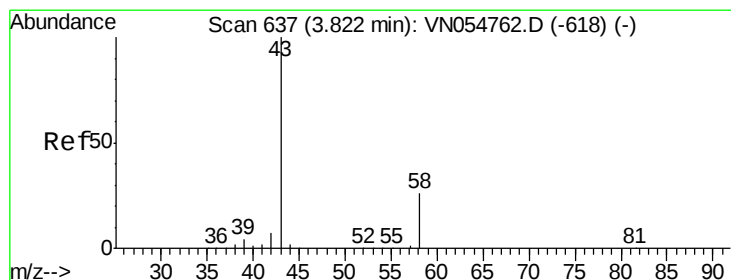
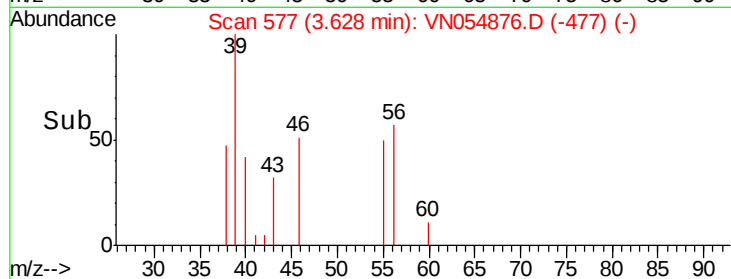
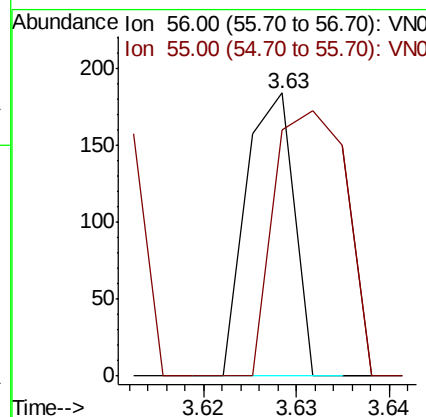
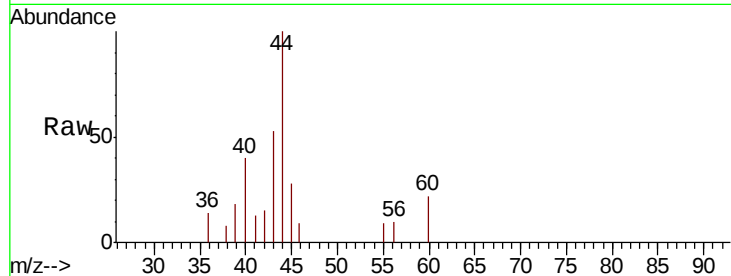




#13
Acrolein
Concen: 0.203 ug/l
RT: 3.63 min Scan# 577
Delta R.T. 0.02 min
Lab File: VN054876.D
Acq: 1 Apr 2019 15:56

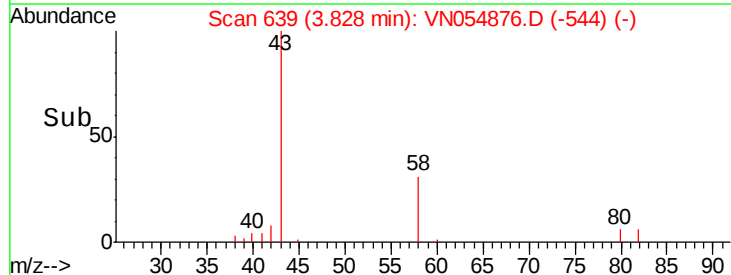
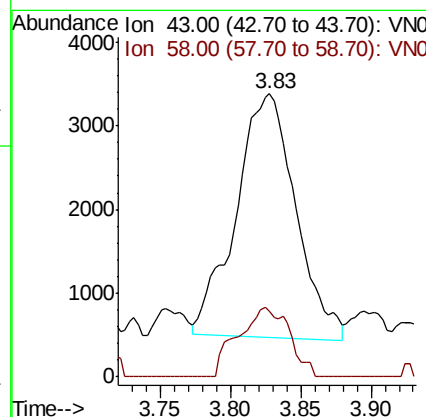
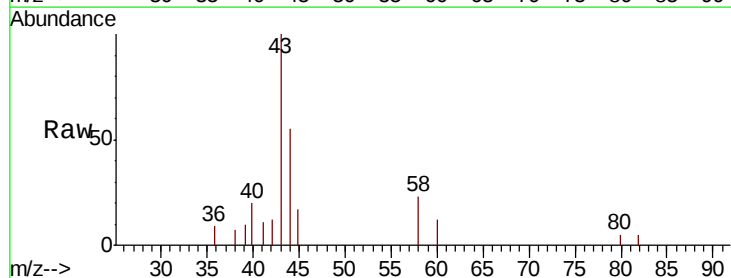
Instrument :
MSVOA_N
ClientSampled :
S8A(12)

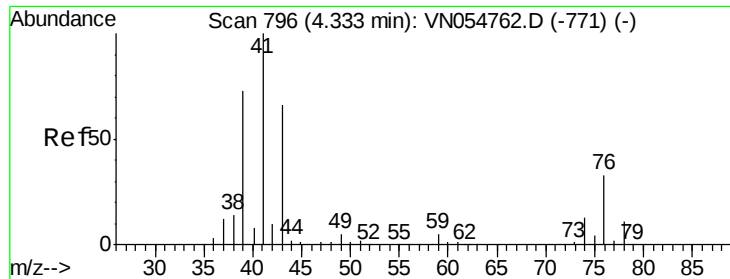
Tot Ion: 56 Resp: 66
Ion Ratio Lower Upper
56 100
55 140.9 56.7 85.1#



#16
Acetone
Concen: 5.164 ug/l
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN054876.D
Acq: 1 Apr 2019 15:56

Tgt Ion: 43 Resp: 8605
Ion Ratio Lower Upper
43 100
58 28.5 29.9 44.9#

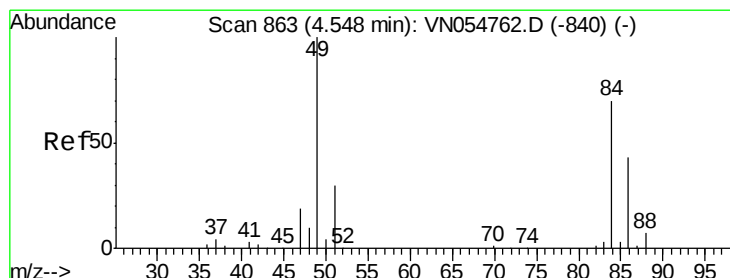
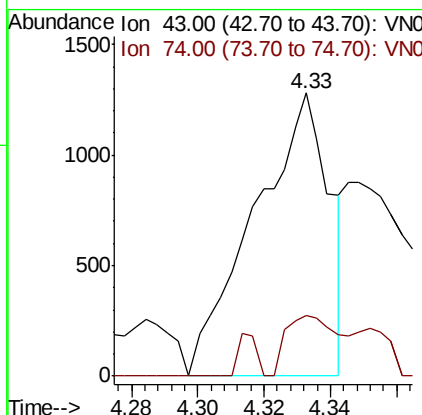
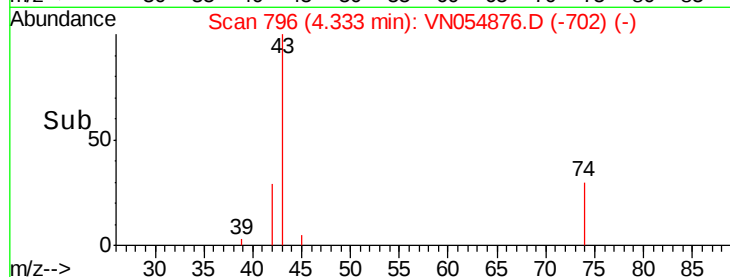
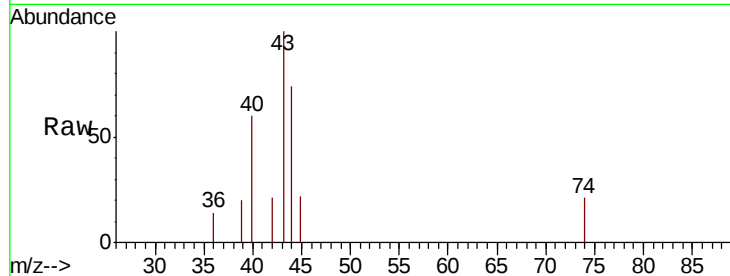




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054876.D
Acq: 1 Apr 2019 15:56

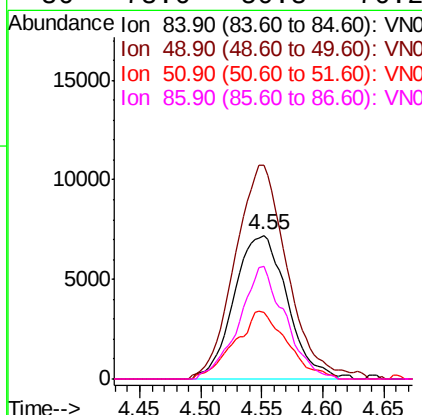
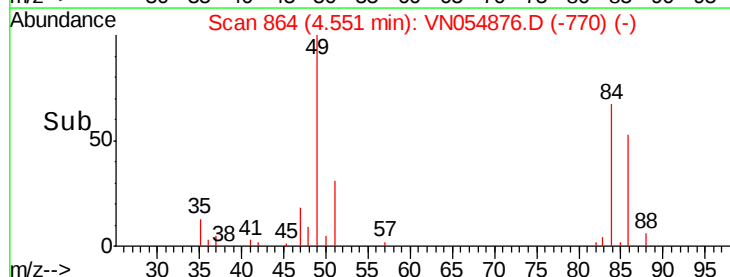
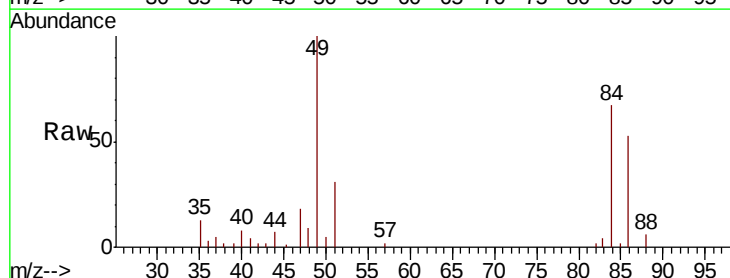
Instrument :
MSVOA_N
ClientSampled :
S8A(12)

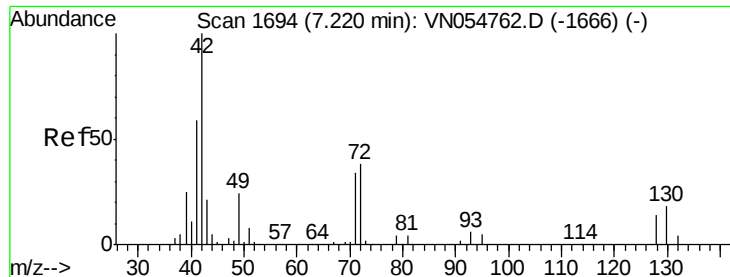
Tot Ion: 43 Resp: 2014
Ion Ratio Lower Upper
43 100
74 15.2 20.8 31.2#



#20
Methylene Chloride
Concen: 3.711 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN054876.D
Acq: 1 Apr 2019 15:56

Tgt Ion: 84 Resp: 21817
Ion Ratio Lower Upper
84 100
49 149.0 89.7 134.5#
51 46.2 28.2 42.4#
86 78.6 50.8 76.2#





#29

Tetrahydrofuran

Concen: 0.313 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. -0.01 min

Lab File: VN054876.D

Acq: 1 Apr 2019 15:56

Instrument :

MSVOA_N

ClientSampleId :

S8A(12)

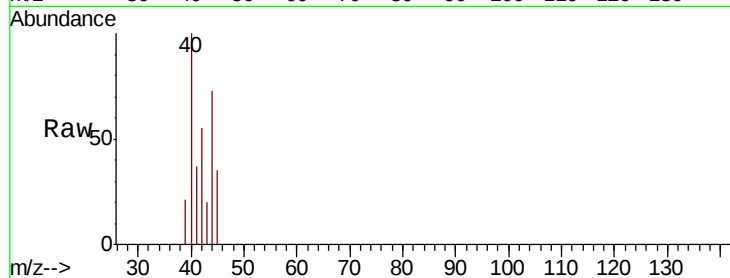
Tot Ion: 42 Resp: 536

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

71 0.0 36.2 54.2#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

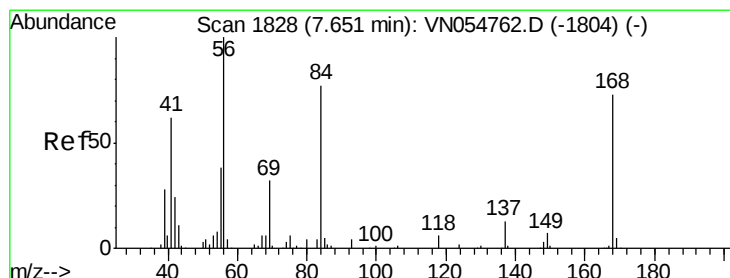
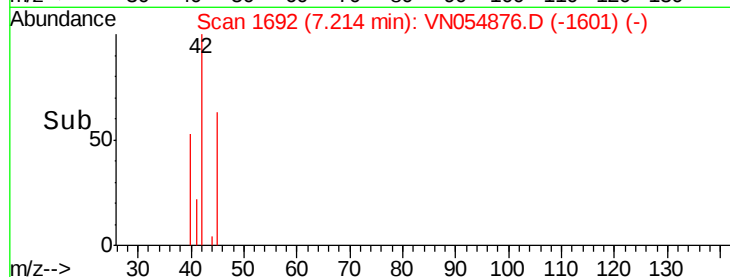
7.21

400

200

0

Time--> 7.18 7.20 7.22



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054876.D

Acq: 1 Apr 2019 15:56

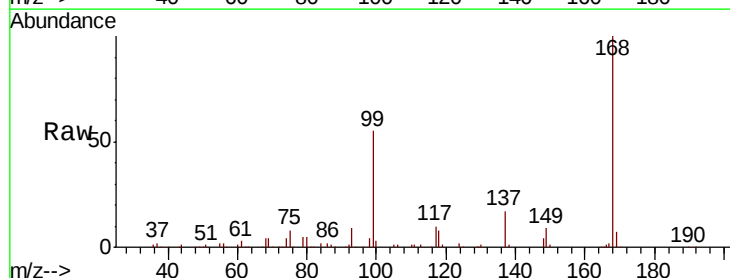
Tgt Ion: 56 Resp: 11668

Ion Ratio Lower Upper

56 100

69 172.8 27.8 41.6#

84 107.8 74.6 111.8



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

7.66

10000

8000

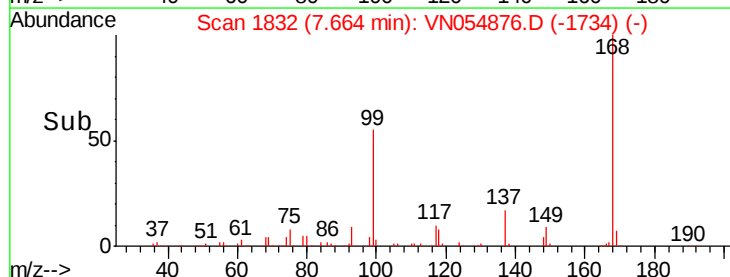
6000

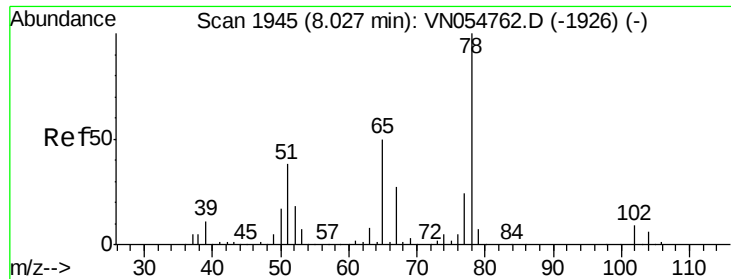
4000

2000

0

Time--> 7.60 7.65 7.70 7.75

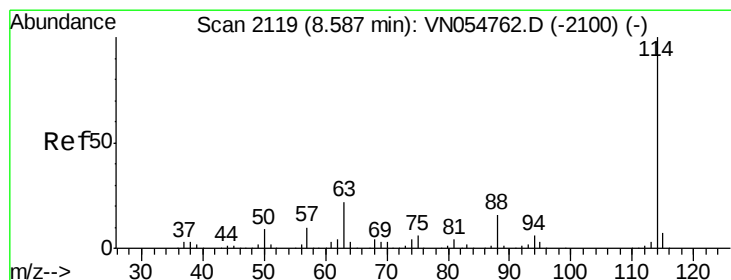
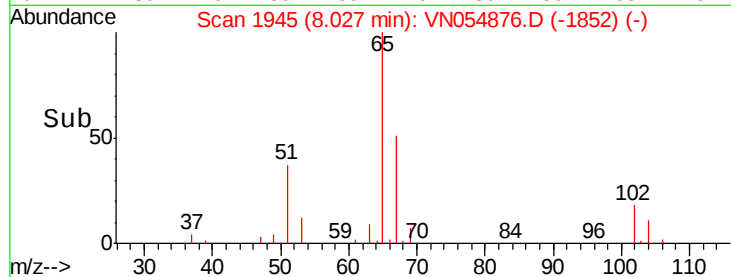
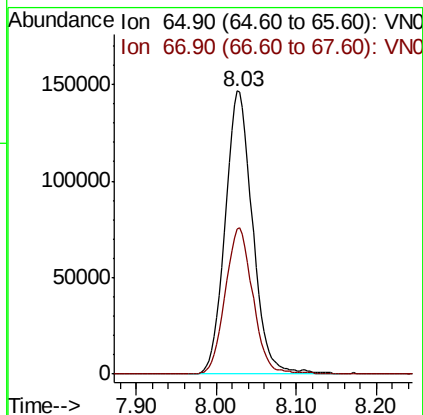
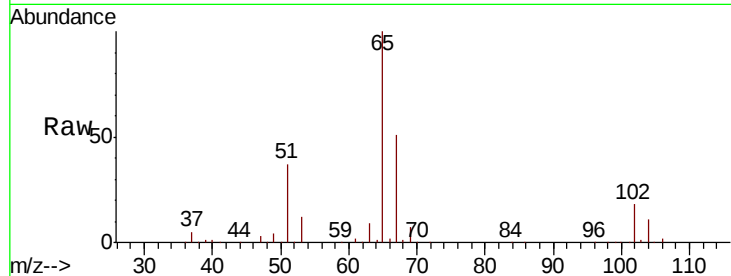




#33
 1,2-Dichloroethane-d4
 Concen: 49.052 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054876.D
 Acq: 1 Apr 2019 15:56

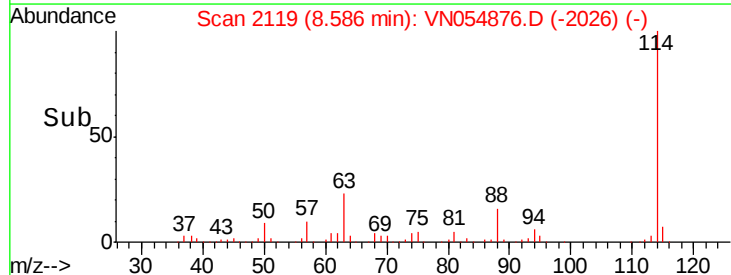
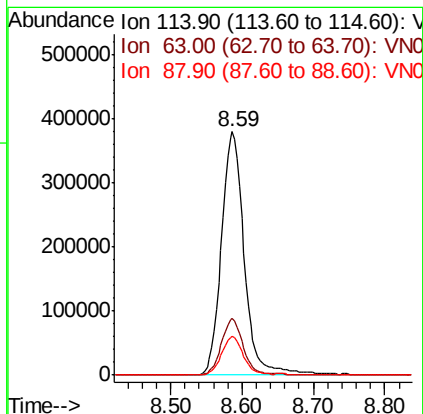
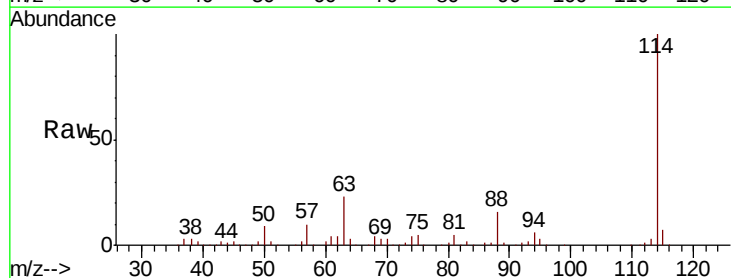
Instrument :
 MSVOA_N
 ClientSampleId :
 S8A(12)

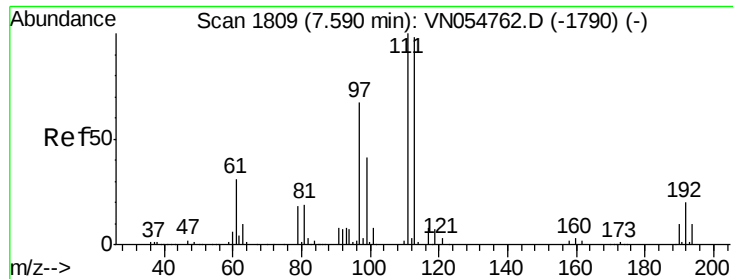
Tot Ion: 65 Resp: 342796
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054876.D
 Acq: 1 Apr 2019 15:56

Tgt Ion: 114 Resp: 844326
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 35.2
 88 15.8 0.0 30.2

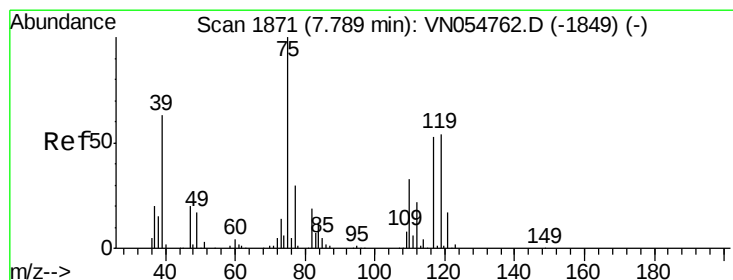
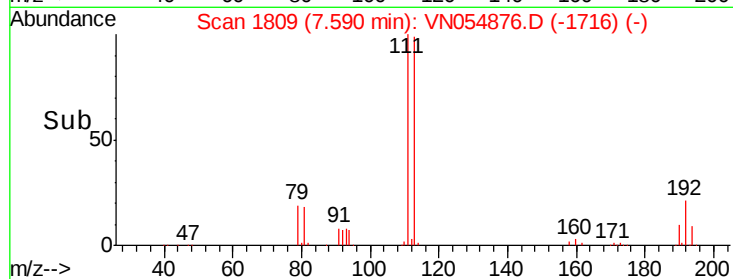
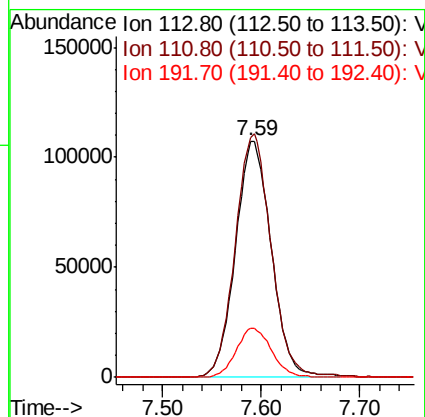
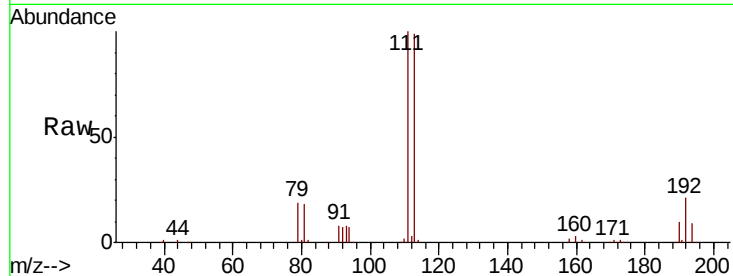




#35
 Dibromofluoromethane
 Concen: 48.163 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054876.D
 Acq: 1 Apr 2019 15:56

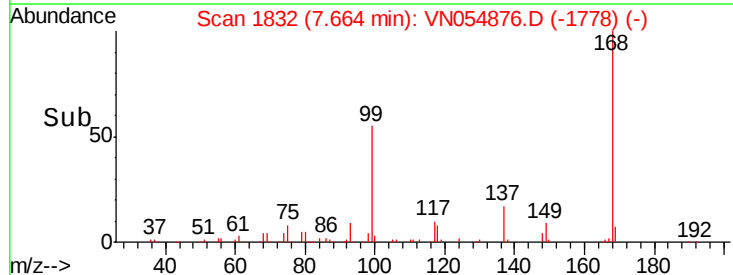
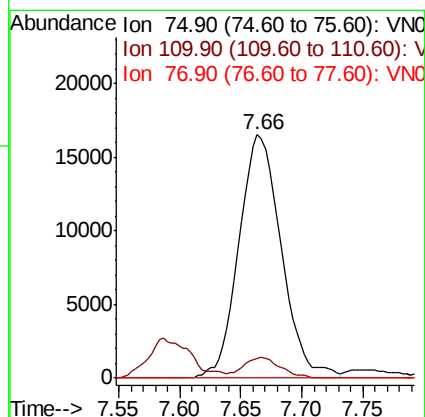
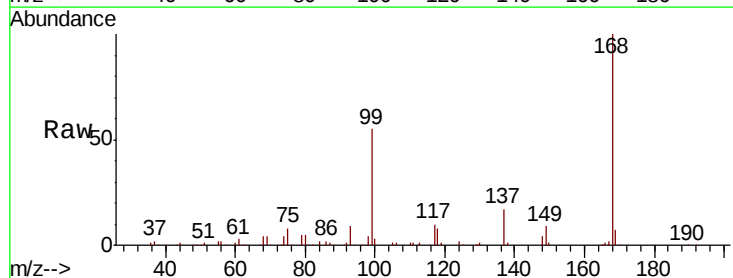
Instrument :
 MSVOA_N
 ClientSampled :
 S8A(12)

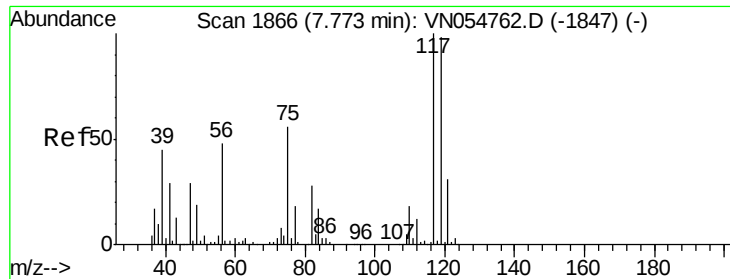
Tot Ion:113 Resp: 271111
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.2 123.4
 192 20.6 19.2 28.8



#36
 1,1-Dichloropropene
 Concen: 5.050 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054876.D
 Acq: 1 Apr 2019 15:56

Tgt Ion: 75 Resp: 39728
 Ion Ratio Lower Upper
 75 100
 110 7.4 19.1 57.5#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.456 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054876.D

Acq: 1 Apr 2019 15:56

Instrument :

MSVOA_N

ClientSampleId :

S8A(12)

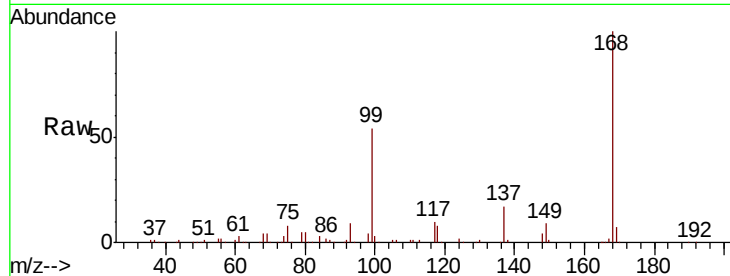
Tot Ion:117 Resp: 49330

Ion Ratio Lower Upper

117 100

119 4.8 76.3 114.5#

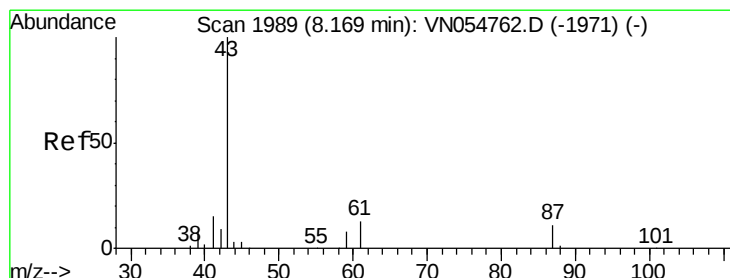
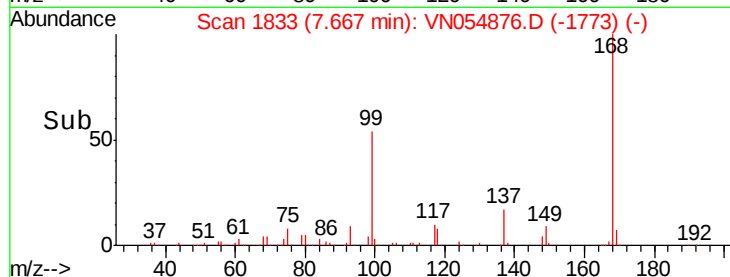
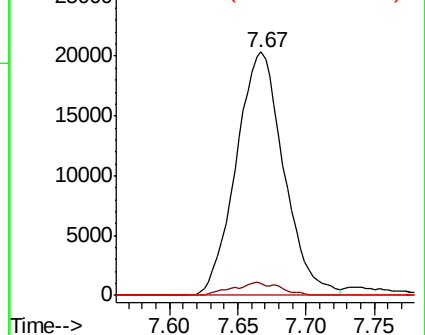
121 0.0 24.6 36.8#



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: 1.581 ug/l

RT: 8.17 min Scan# 1991

Delta R.T. 0.01 min

Lab File: VN054876.D

Acq: 1 Apr 2019 15:56

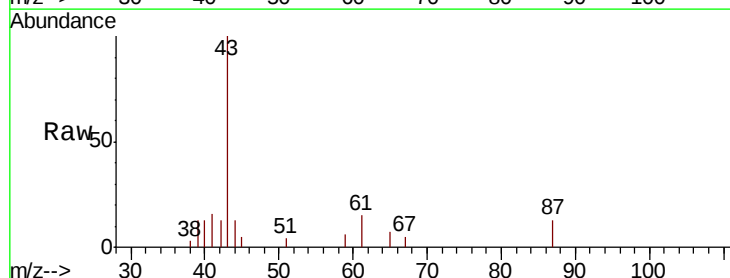
Tgt Ion: 43 Resp: 14818

Ion Ratio Lower Upper

43 100

61 17.6 15.8 23.8

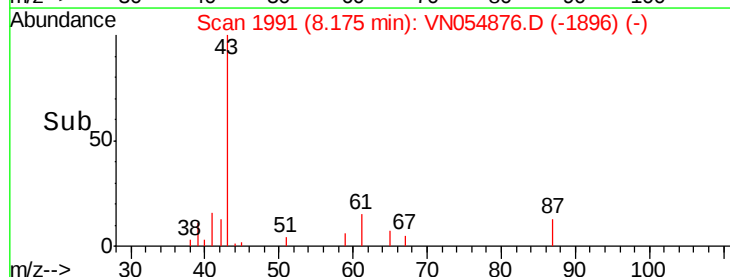
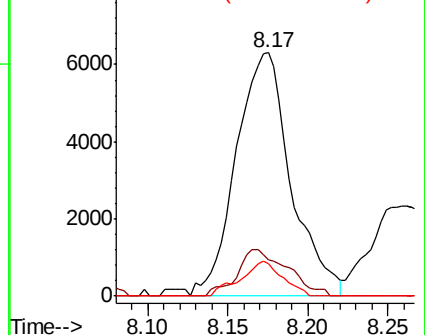
87 10.9 12.0 18.0#

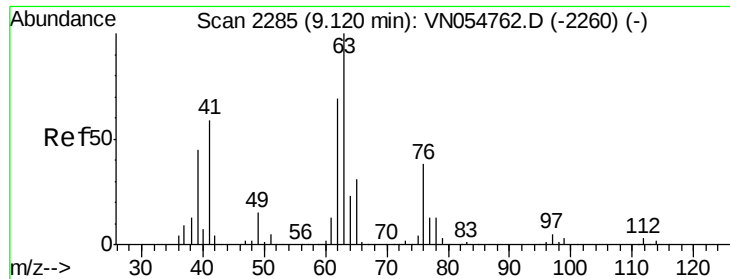


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.258 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN054876.D

Acq: 1 Apr 2019 15:56

Instrument :

MSVOA_N

ClientSampleId :

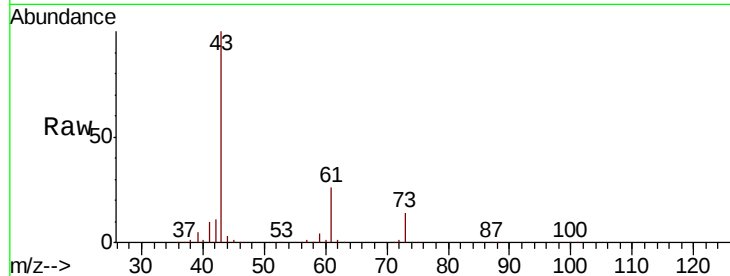
S8A(12)

Tot Ion: 63 Resp: 1658

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

9.27

1000

800

600

400

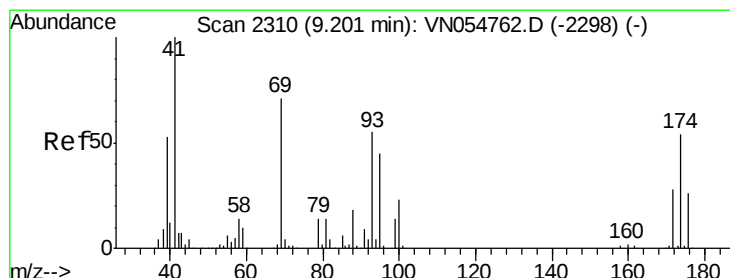
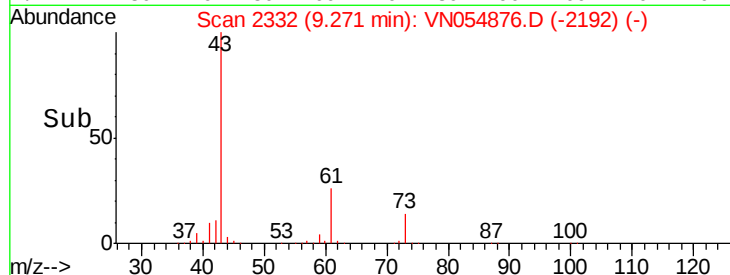
200

0

9.25

9.30

Time-->



#48

Methyl methacrylate

Concen: 1.448 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN054876.D

Acq: 1 Apr 2019 15:56

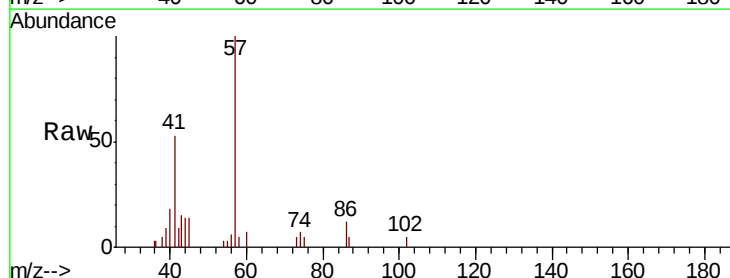
Tgt Ion: 41 Resp: 7356

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

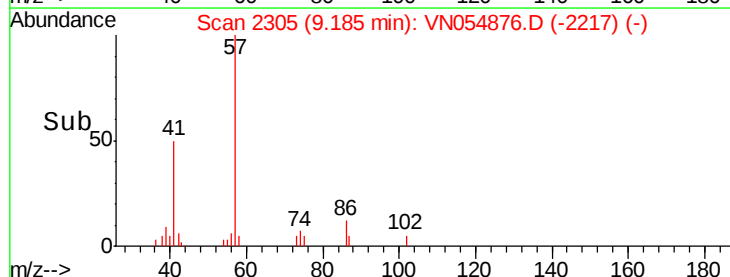
9.10

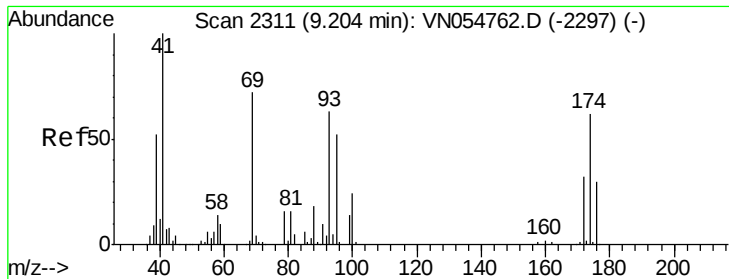
9.15

9.20

9.25

Time-->

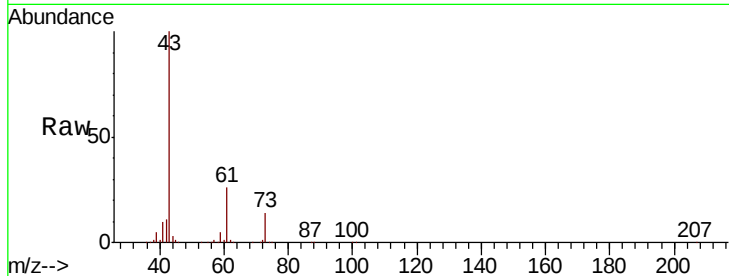




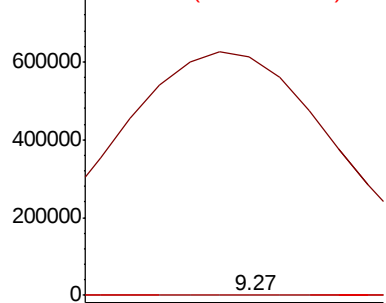
#49
1,4-Dioxane
Concen: 1.309 ug/l
RT: 9.27 min Scan# 2333
Delta R.T. 0.07 min
Lab File: VN054876.D
Acq: 1 Apr 2019 15:56

Instrument :
MSVOA_N
ClientSampleId :
S8A(12)

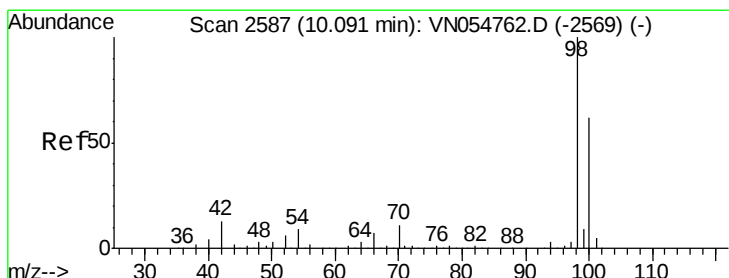
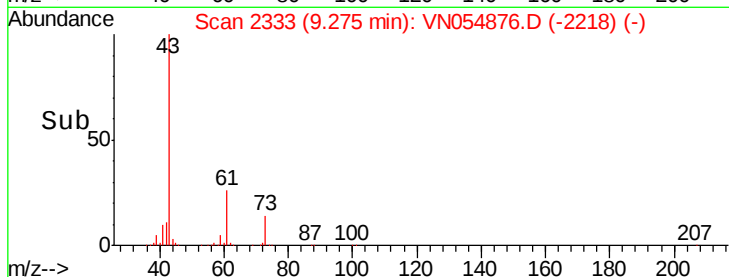
Tot Ion: 88 Resp: 66
Ion Ratio Lower Upper
88 100
43 1871181.8 24.1 36.1#
58 8533.3 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

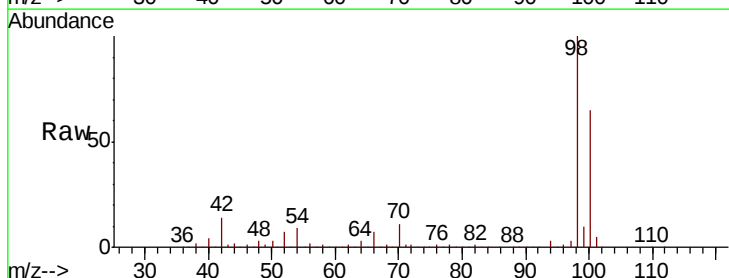


Time-->

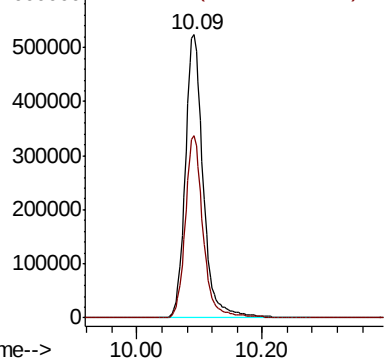


#50
Toluene-d8
Concen: 49.436 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054876.D
Acq: 1 Apr 2019 15:56

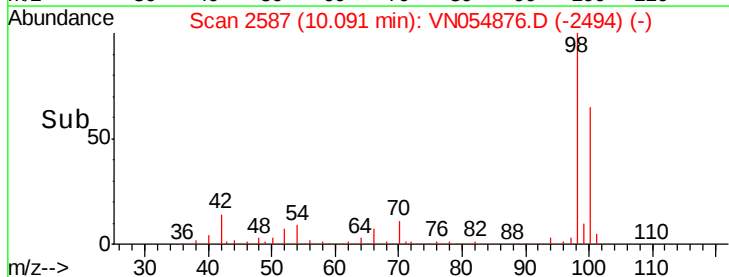
Tgt Ion: 98 Resp: 1034584
Ion Ratio Lower Upper
98 100
100 63.7 51.2 76.8

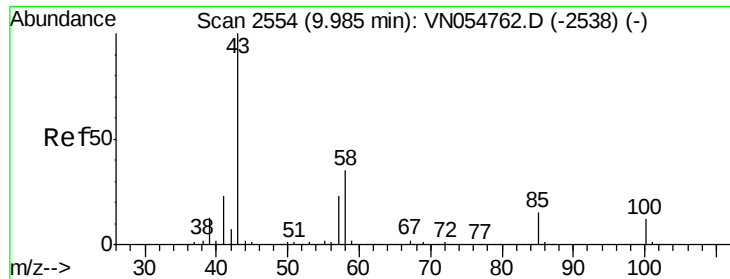


Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0



Time-->





#51

4-Methyl-2-Pentanone

Concen: 1.349 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN054876.D

Acq: 1 Apr 2019 15:56

Instrument :

MSVOA_N

ClientSampled :

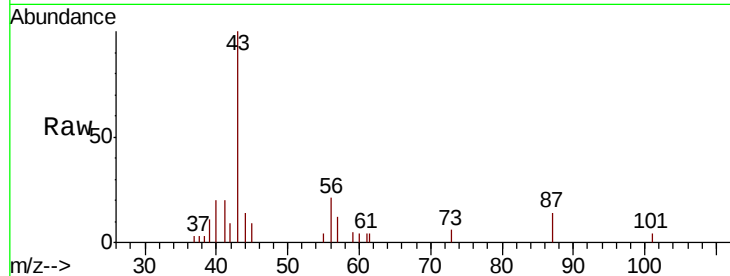
S8A(12)

Tot Ion: 43 Resp: 7111

Ion Ratio Lower Upper

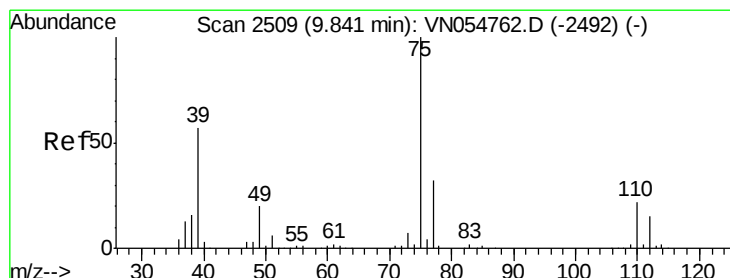
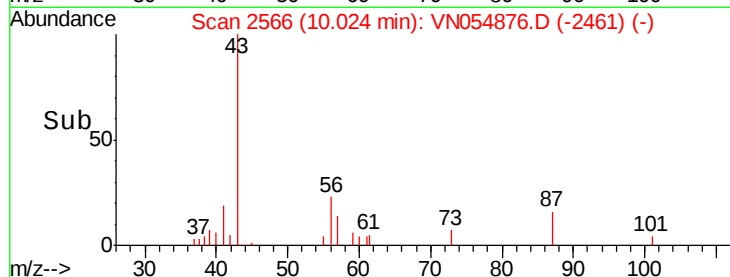
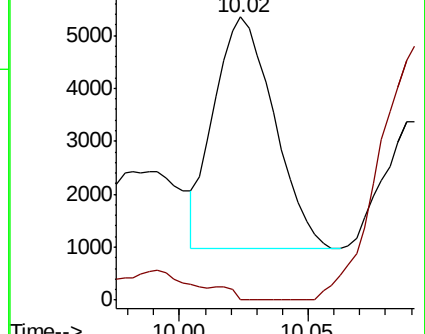
43 100

58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.721 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054876.D

Acq: 1 Apr 2019 15:56

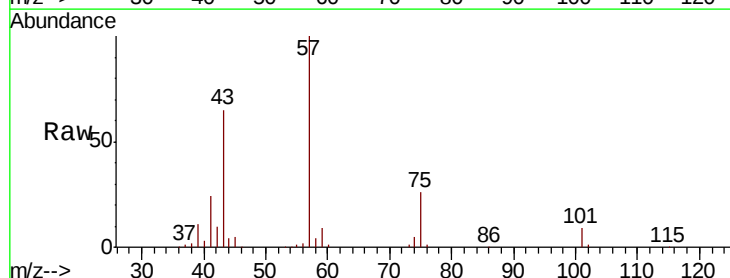
Tgt Ion: 75 Resp: 48245

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

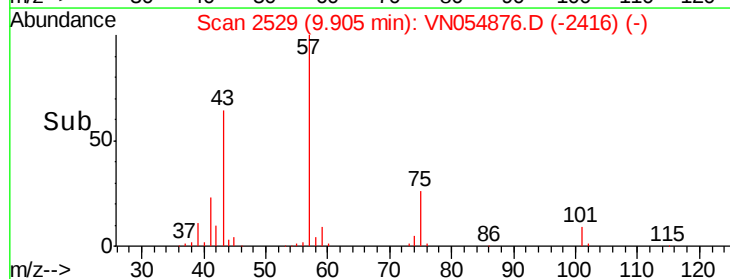
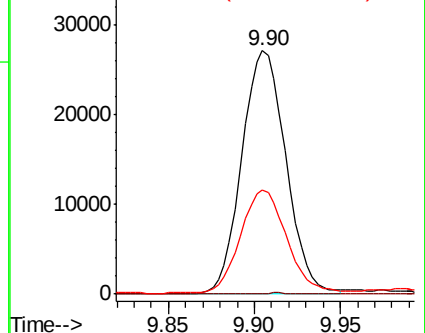
39 42.3 37.2 55.8

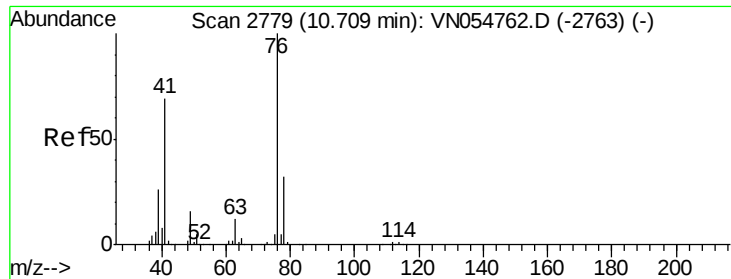


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

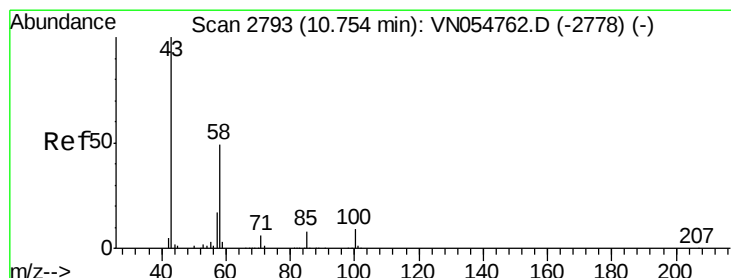
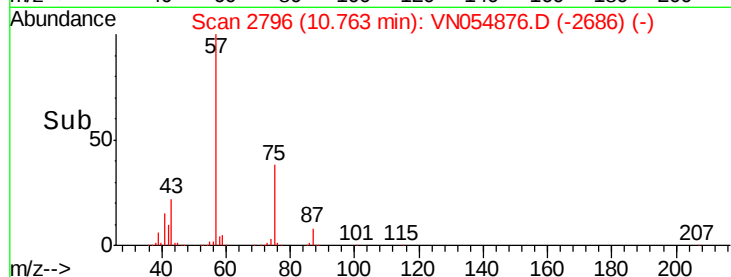
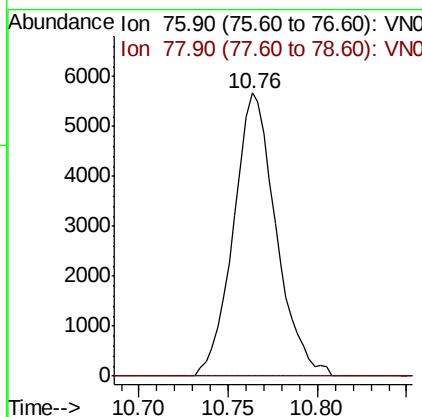
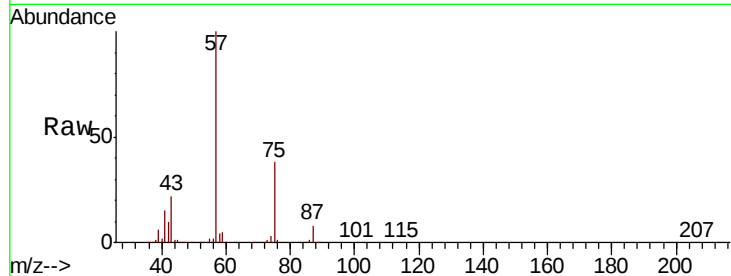




#57
 1,3-Dichloropropane
 Concen: 1.102 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN054876.D
 Acq: 1 Apr 2019 15:56

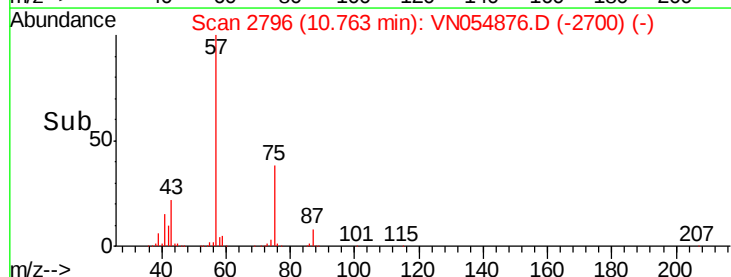
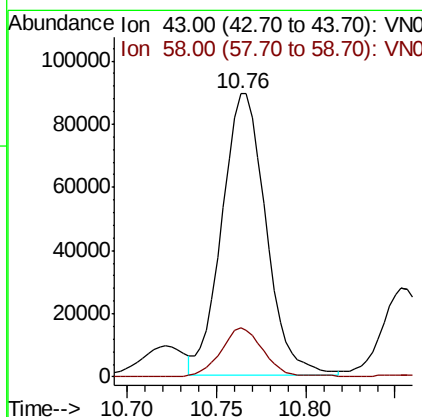
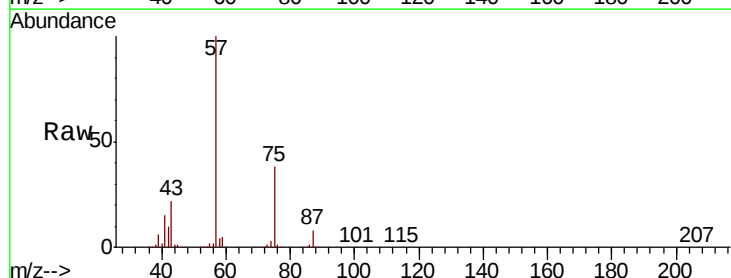
Instrument :
 MSVOA_N
 ClientSampled :
 S8A(12)

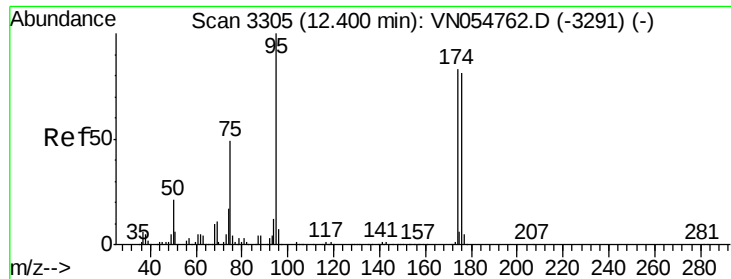
Tot Ion: 76 Resp: 9434
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 45.616 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN054876.D
 Acq: 1 Apr 2019 15:56

Tgt Ion: 43 Resp: 153910
 Ion Ratio Lower Upper
 43 100
 58 16.6 28.0 83.9#

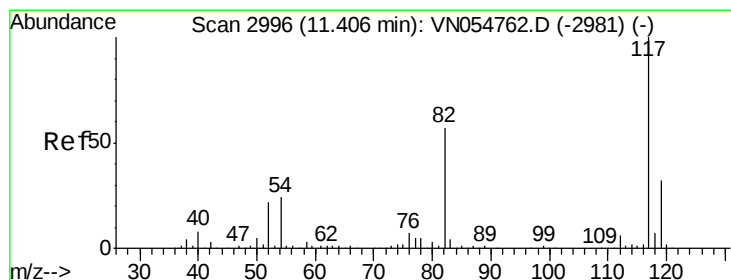
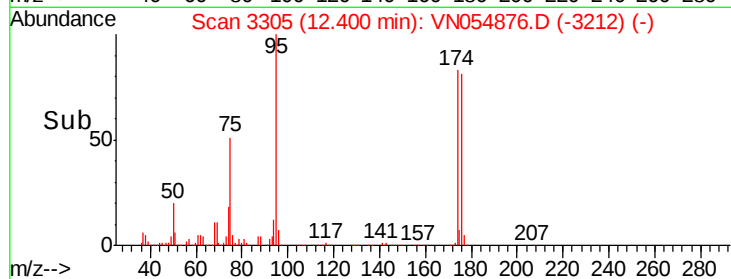
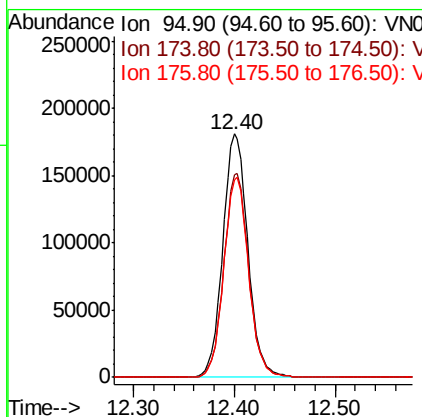
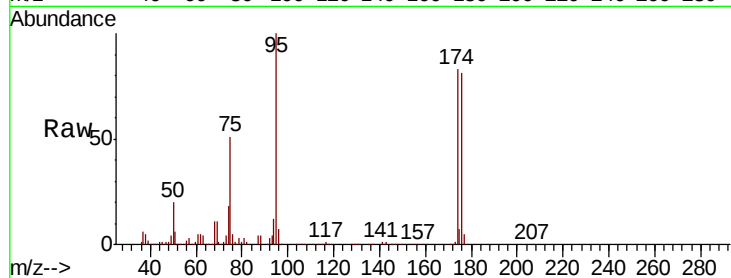




#62
4-Bromofluorobenzene
Concen: 45.135 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054876.D
Acq: 1 Apr 2019 15:56

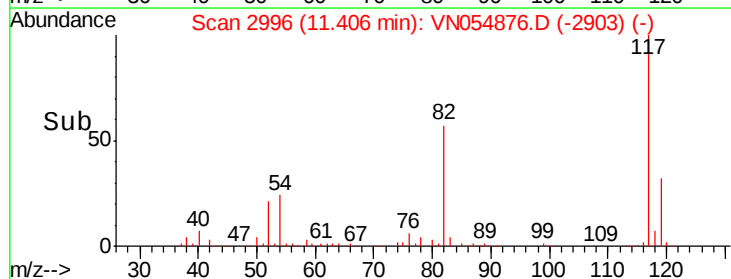
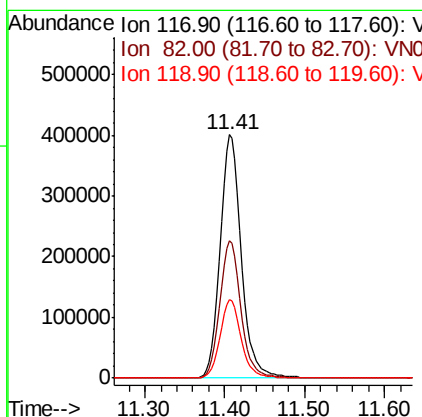
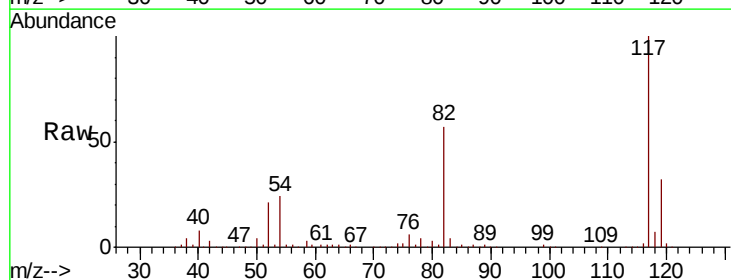
Instrument :
MSVOA_N
ClientSampleId :
S8A(12)

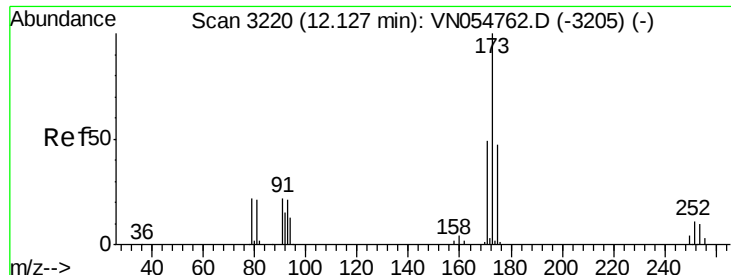
Tot Ion: 95 Resp: 314143
Ion Ratio Lower Upper
95 100
174 83.1 0.0 191.0
176 81.3 0.0 187.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054876.D
Acq: 1 Apr 2019 15:56

Tgt Ion: 117 Resp: 735371
Ion Ratio Lower Upper
117 100
82 56.5 40.0 60.0
119 32.0 25.8 38.6





#71

Bromoform

Concen: 0.800 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN054876.D

Acq: 1 Apr 2019 15:56

Instrument :

MSVOA_N

ClientSampled :

S8A(12)

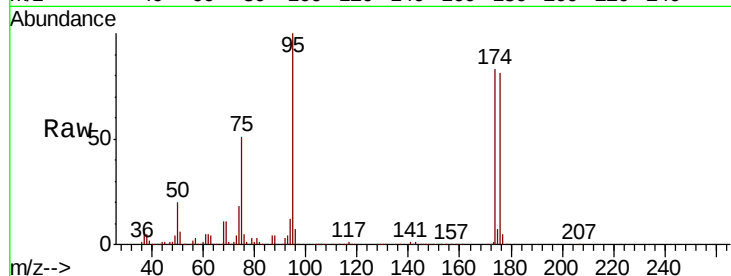
Tot Ion:173 Resp: 2527

Ion Ratio Lower Upper

173 100

175 695.3 24.4 73.2#

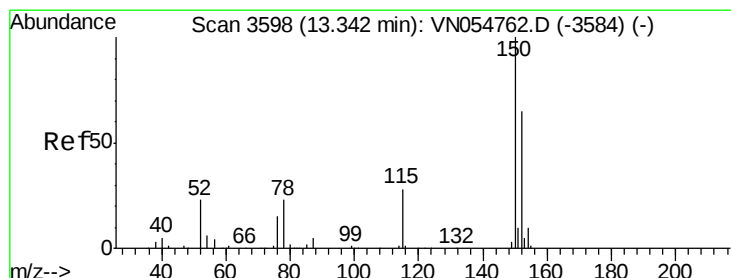
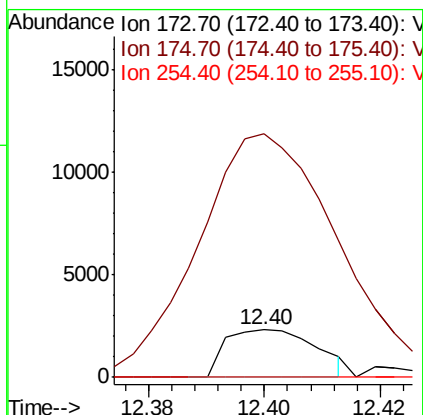
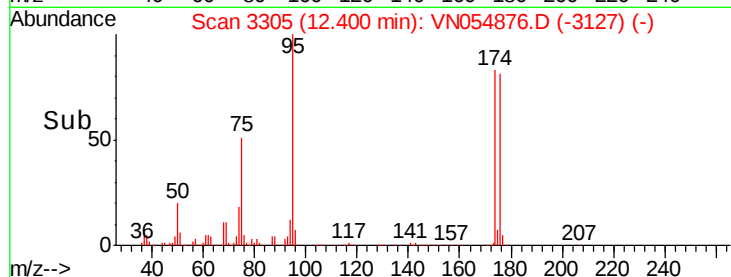
254 0.0 0.1 0.1#



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: VN054876.D

Acq: 1 Apr 2019 15:56

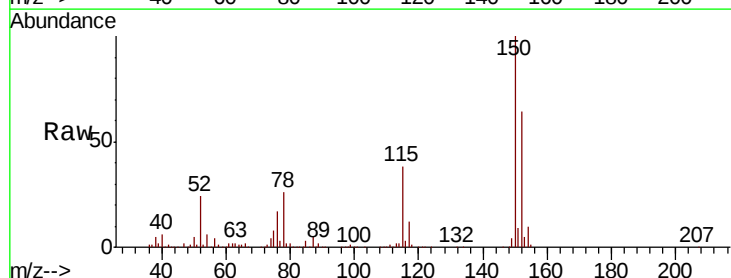
Tgt Ion:152 Resp: 251177

Ion Ratio Lower Upper

152 100

115 58.7 27.2 81.6

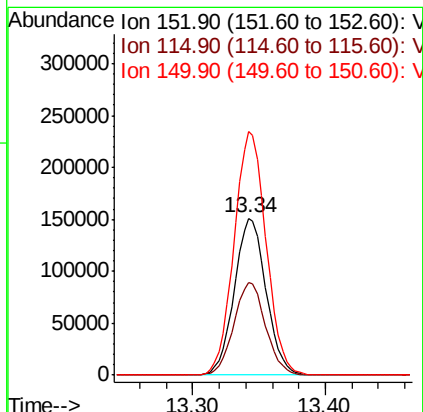
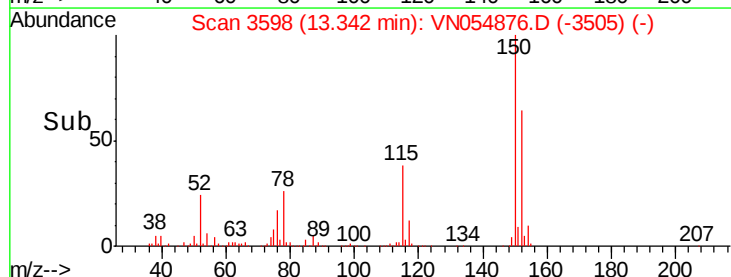
150 156.2 0.0 349.2

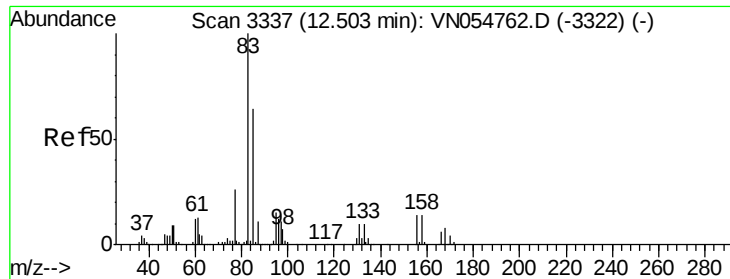


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN054876.D

Acq: 1 Apr 2019 15:56

Instrument :

MSVOA_N

ClientSampleId :

S8A(12)

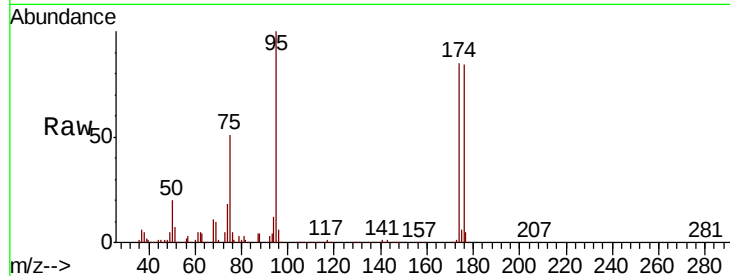
Tot Ion: 83 Resp: 319

Ion Ratio Lower Upper

83 100

131 127.3 5.8 17.4#

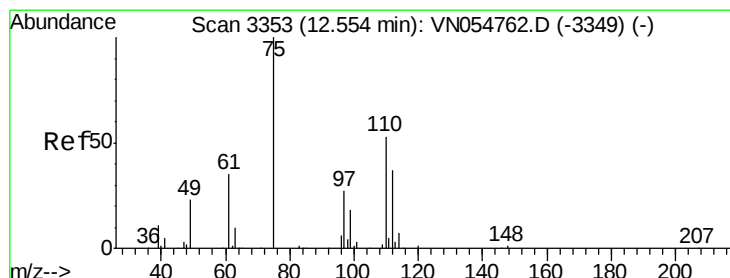
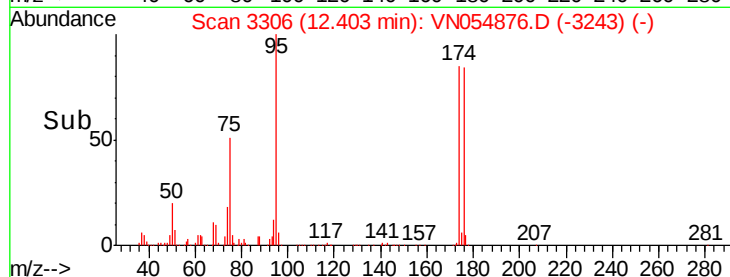
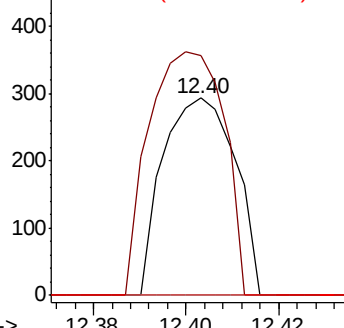
85 0.0 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 37.101 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054876.D

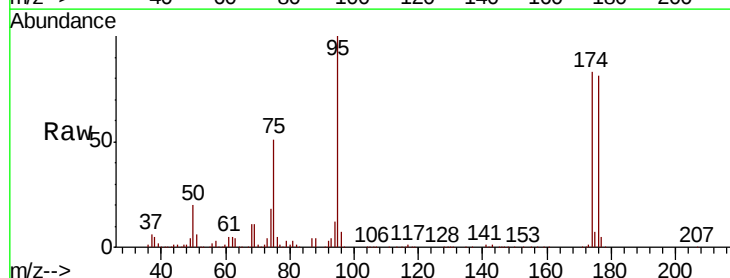
Acq: 1 Apr 2019 15:56

Tgt Ion: 75 Resp: 161893

Ion Ratio Lower Upper

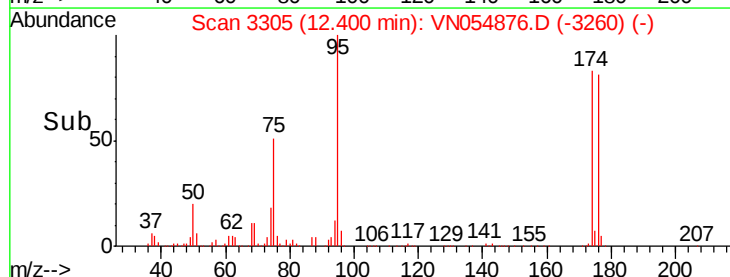
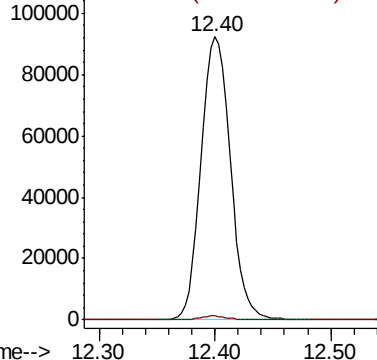
75 100

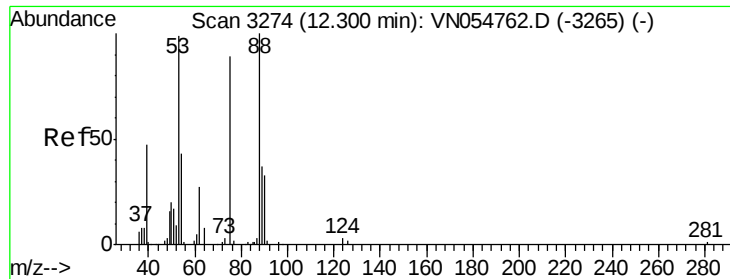
77 1.3 0.0 0.0#



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: 144.315 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054876.D

Acq: 1 Apr 2019 15:56

Instrument :

MSVOA_N

ClientSampleId :

S8A(12)

Tot Ion: 75 Resp: 161893

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#

