

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040219\
 Data File : VN054895.D
 Acq On : 2 Apr 2019 12:19
 Operator : JC/SP
 Sample : K2186-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

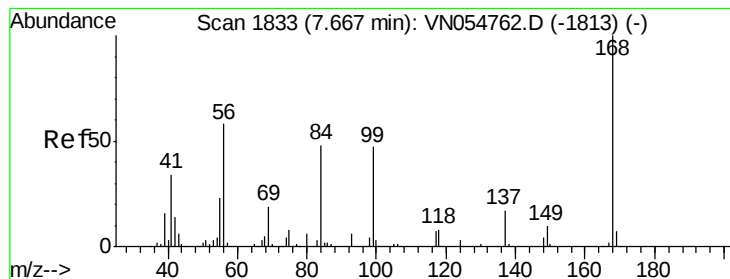
Quant Time: Apr 03 05:04:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032919W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 30 00:48:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	510519	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	837837	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	741154	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	255317	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	342977	49.84	ug/l	0.00
Spiked Amount			Recovery	=	99.68%	
35) Dibromofluoromethane	7.59	113	270330	48.40	ug/l	0.00
Spiked Amount			Recovery	=	96.80%	
50) Toluene-d8	10.09	98	1031698	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
62) 4-Bromofluorobenzene	12.40	95	323083	46.78	ug/l	0.00
Spiked Amount			Recovery	=	93.56%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	418	Below Cal	#	61
13) Acrolein	3.60	56	137	0.427	ug/l #	1
16) Acetone	3.82	43	11399	6.946	ug/l #	84
18) Methyl Acetate	4.33	43	2568	Below Cal	#	56
20) Methylene Chloride	4.55	84	18272	3.156	ug/l #	81
25) 2-Butanone	6.87	43	2198	0.906	ug/l #	86
29) Tetrahydrofuran	7.23	42	1201	0.713	ug/l #	59
31) Cyclohexane	7.66	56	11051	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	40183	5.147	ug/l #	47
38) Carbon Tetrachloride	7.66	117	48764	6.431	ug/l #	17
43) Isopropyl Acetate	8.17	43	11110	1.194	ug/l #	89
48) Methyl methacrylate	9.18	41	6363	1.262	ug/l #	27
51) 4-Methyl-2-Pentanone	9.99	43	4567	0.873	ug/l #	82
54) cis-1,3-Dichloropropene	9.90	75	40369	4.824	ug/l #	73
57) 1,3-Dichloropropane	10.77	76	7040	0.828	ug/l #	43
59) 2-Hexanone	10.76	43	107645	32.151	ug/l #	48
74) N-amyl acetate	11.88	43	10281	1.581	ug/l #	50
75) 1,1,2,2-Tetrachloroethane	12.40	83	104	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	163535	36.870	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	163535	143.415	ug/l #	11
83) tert-Butylbenzene	12.99	119	274	Below Cal	#	48

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

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Instrument :

MSVOA_N

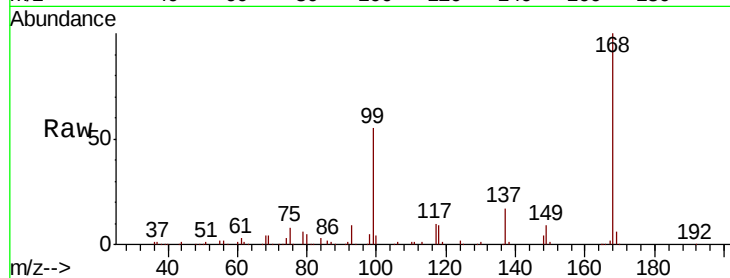
ClientSampled :

Tot Ion:168 Resp: 510519

Ion Ratio Lower Upper

168 100

99 55.5 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

200000

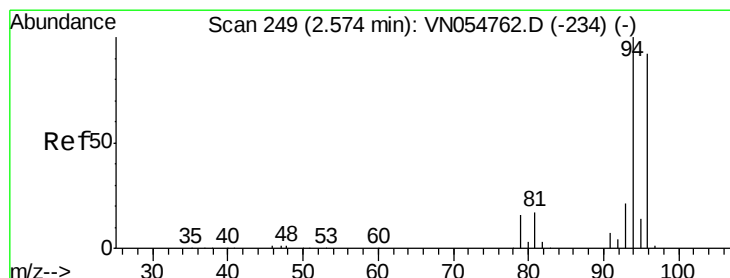
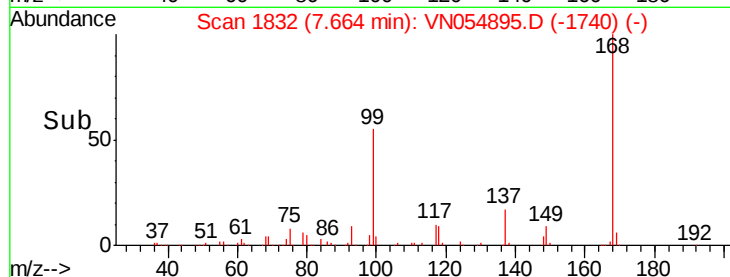
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.58 min Scan# 252

Delta R.T. 0.01 min

Lab File: VN054895.D

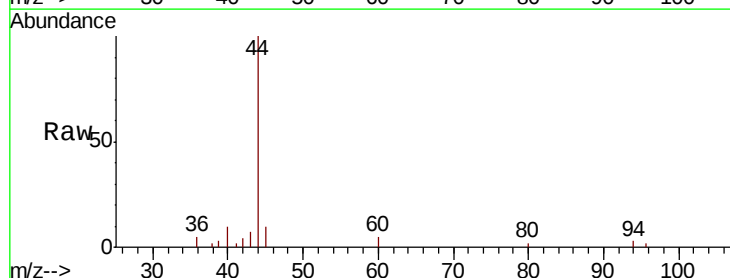
Acq: 2 Apr 2019 12:19

Tgt Ion: 94 Resp: 418

Ion Ratio Lower Upper

94 100

96 58.5 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.58

300

250

200

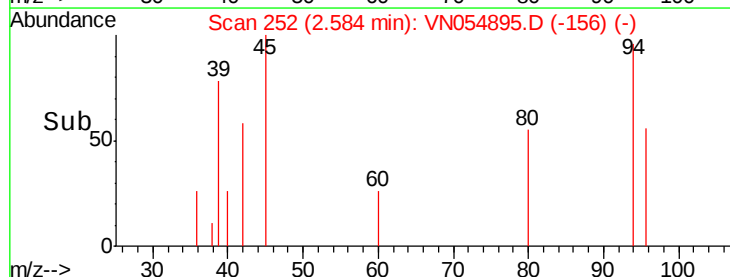
150

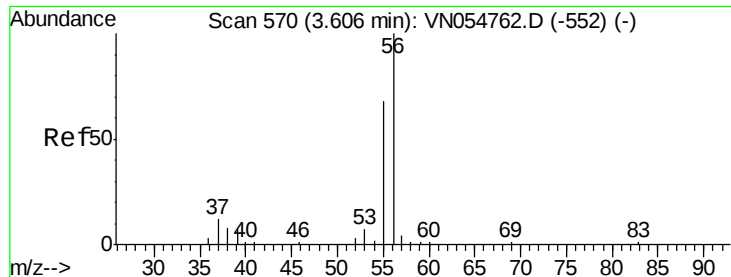
100

50

0

Time-->





#13

Acrolein

Concen: 0.427 ug/l

RT: 3.60 min Scan# 569

Delta R.T. -0.00 min

Lab File: VN054895.D

Acq: 2 Apr 2019 12:19

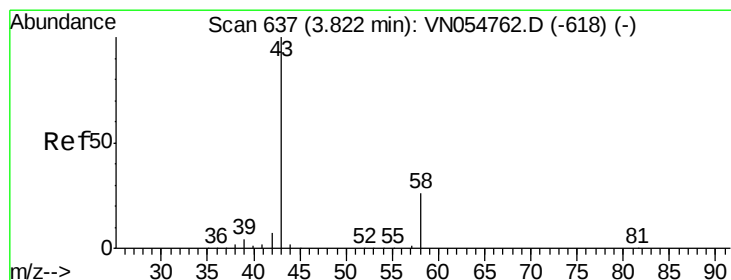
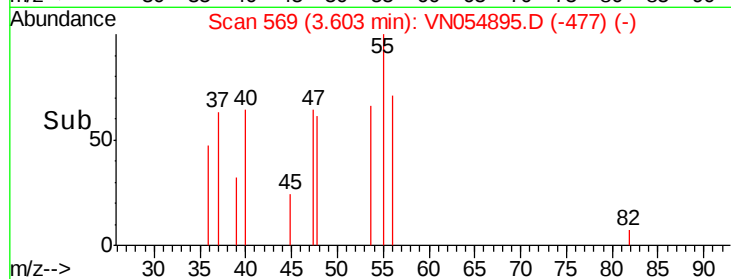
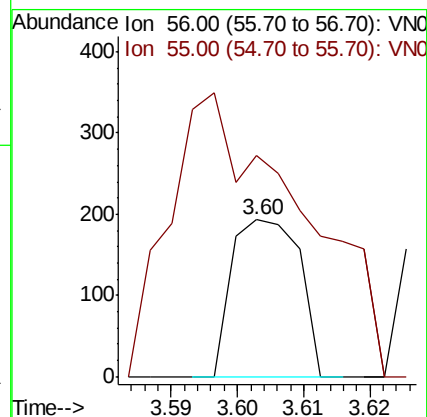
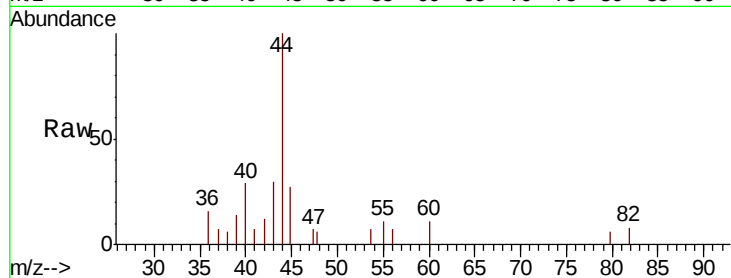
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 137

Ion Ratio Lower Upper

56 100

55 350.4 56.7 85.1#



#16

Acetone

Concen: 6.946 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN054895.D

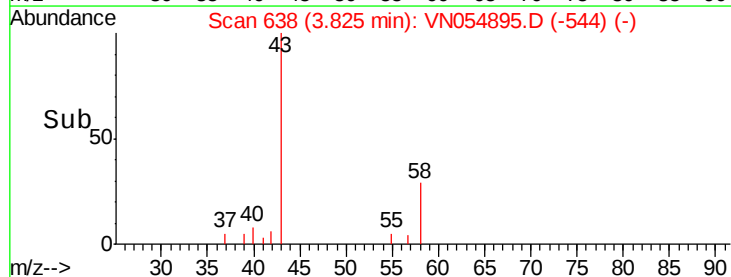
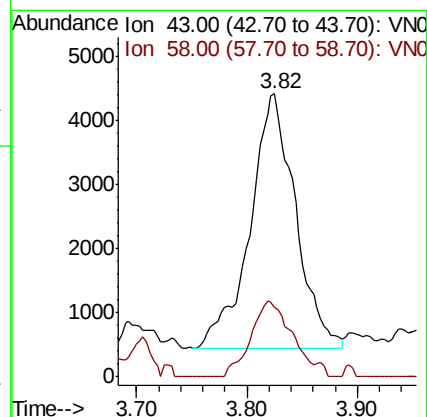
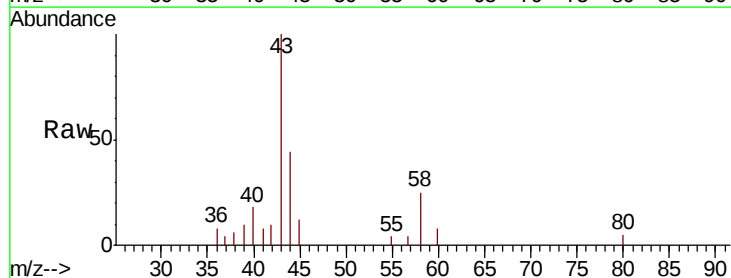
Acq: 2 Apr 2019 12:19

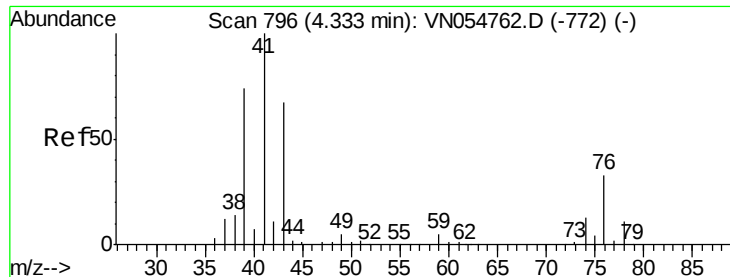
Tgt Ion: 43 Resp: 11399

Ion Ratio Lower Upper

43 100

58 27.6 29.9 44.9#

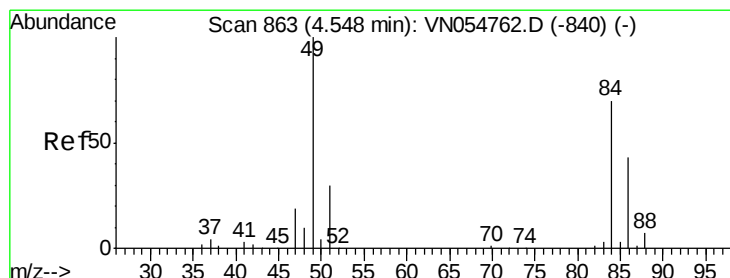
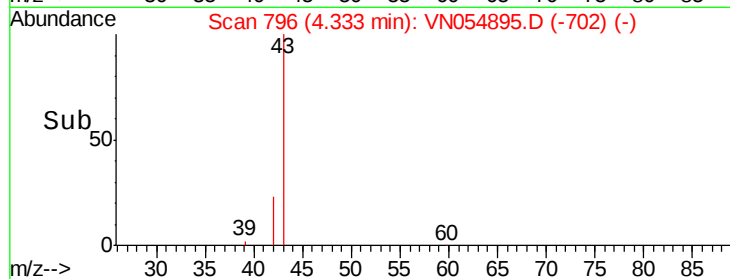
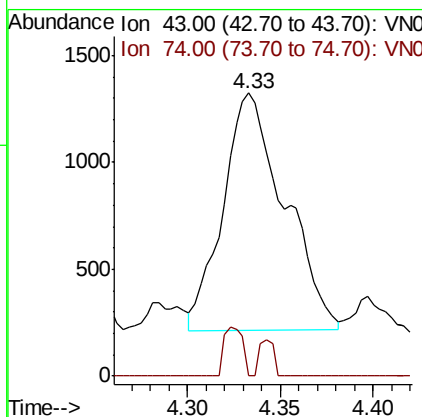
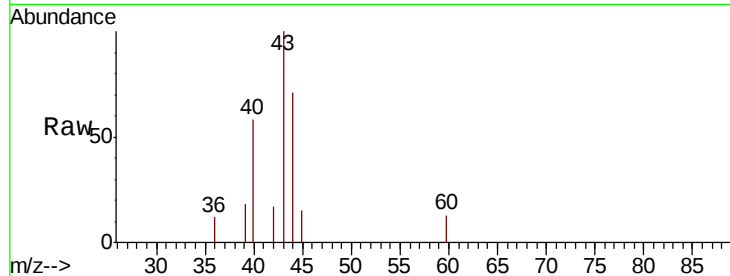




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054895.D
Acq: 2 Apr 2019 12:19

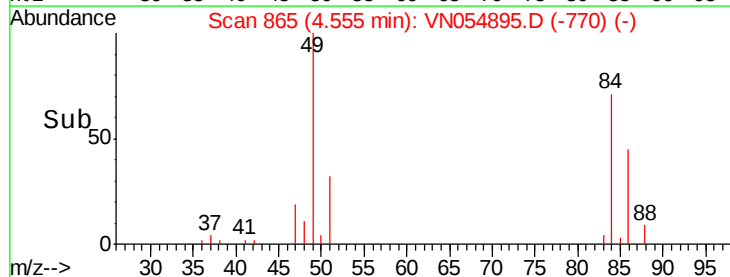
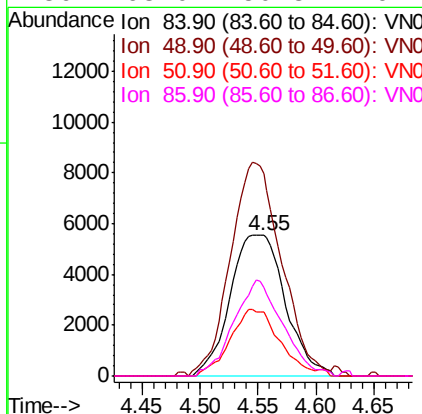
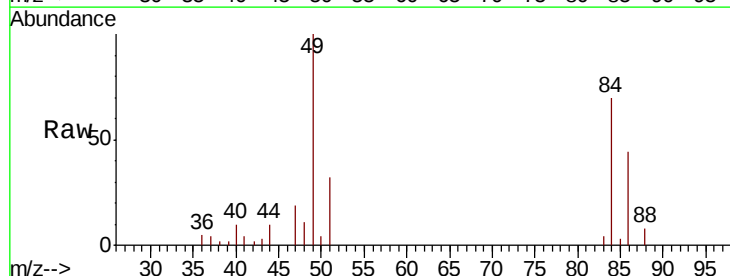
Instrument :
MSVOA_N
ClientSampled :

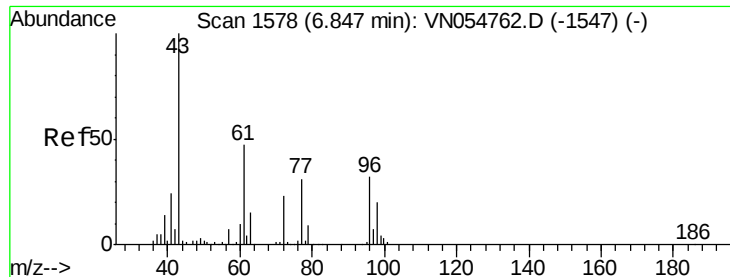
Tot Ion: 43 Resp: 2568
Ion Ratio Lower Upper
43 100
74 3.6 20.8 31.2#



#20
Methylene Chloride
Concen: 3.156 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN054895.D
Acq: 2 Apr 2019 12:19

Tgt Ion: 84 Resp: 18272
Ion Ratio Lower Upper
84 100
49 143.7 89.7 134.5#
51 45.6 28.2 42.4#
86 63.0 50.8 76.2





#25

2-Butanone

Concen: 0.906 ug/l

RT: 6.87 min Scan# 1584

Delta R.T. 0.02 min

Lab File: VN054895.D

Acq: 2 Apr 2019 12:19

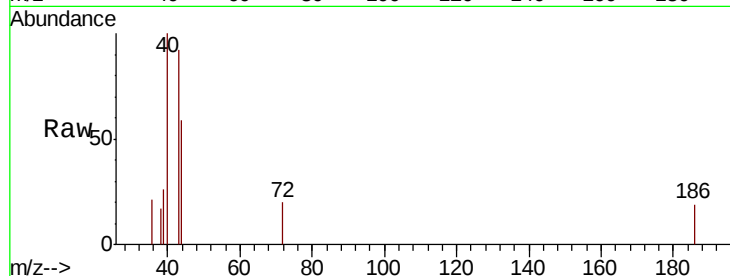
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 2198

Ion Ratio Lower Upper

43 100

72 21.2 23.0 34.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.87

800

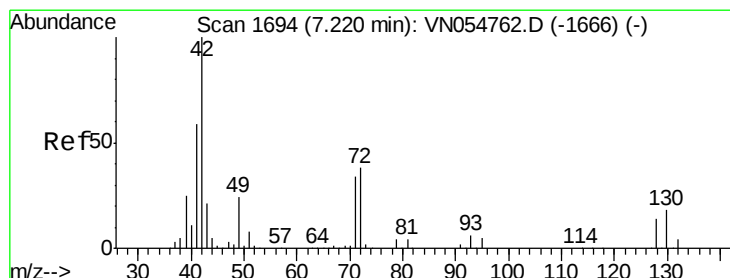
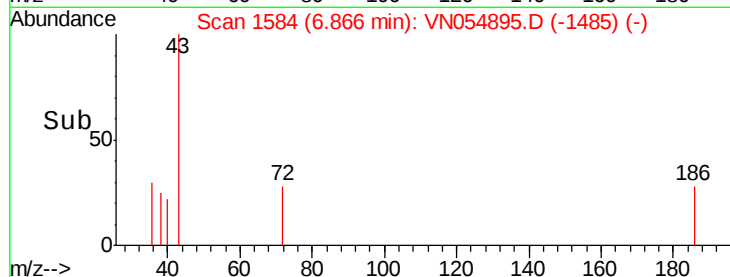
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 0.713 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.01 min

Lab File: VN054895.D

Acq: 2 Apr 2019 12:19

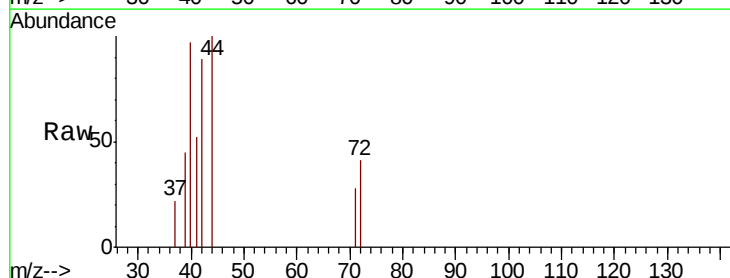
Tgt Ion: 42 Resp: 1201

Ion Ratio Lower Upper

42 100

72 17.0 37.8 56.6#

71 21.6 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

800

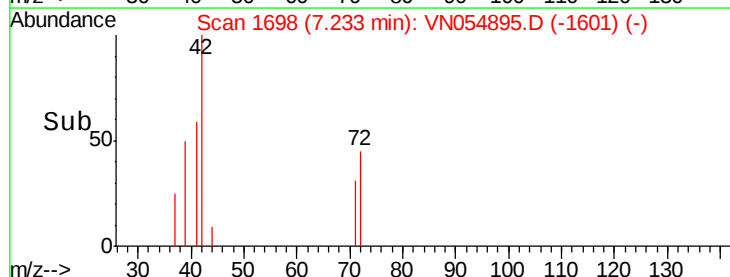
600

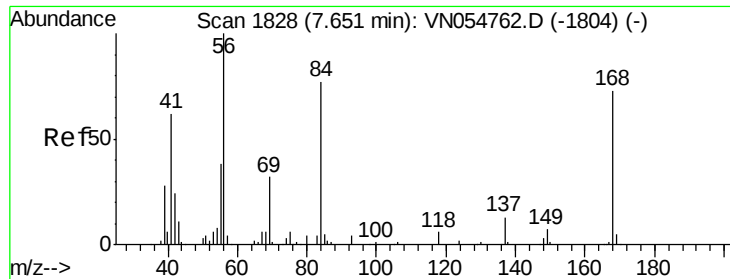
400

200

0

Time-->

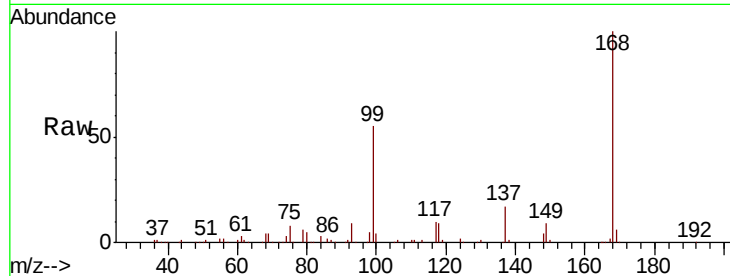




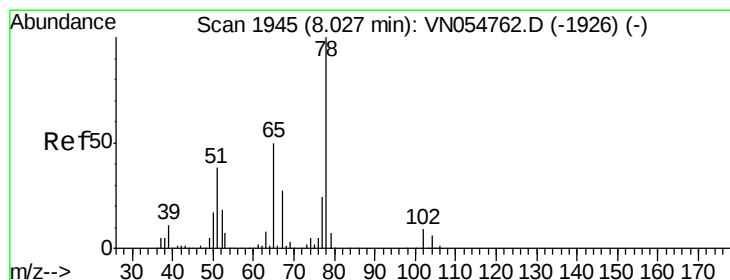
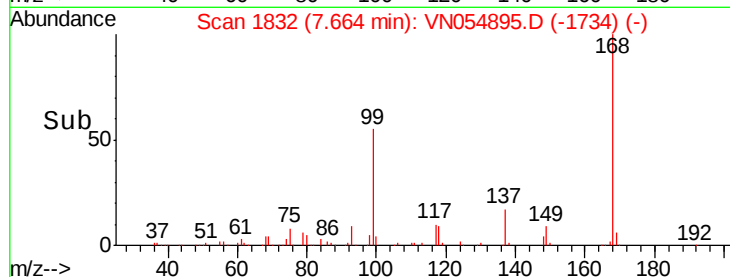
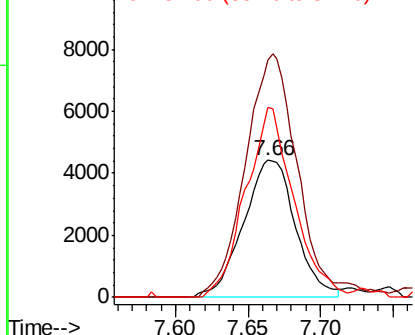
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054895.D
Acq: 2 Apr 2019 12:19

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 11051
Ion Ratio Lower Upper
56 100
69 173.0 27.8 41.6#
84 138.2 74.6 111.8#

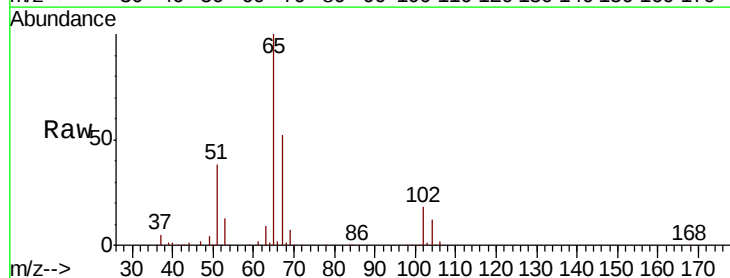


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

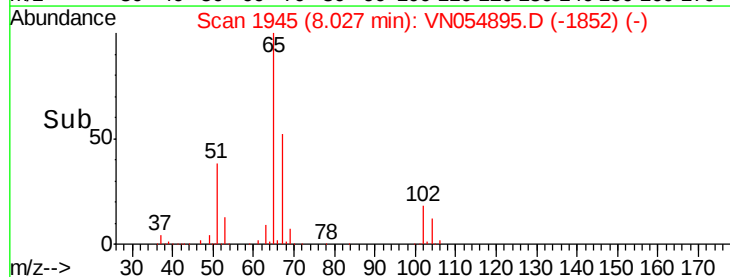
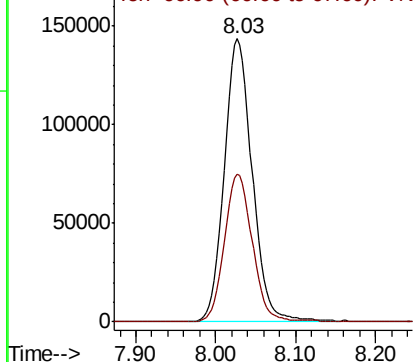


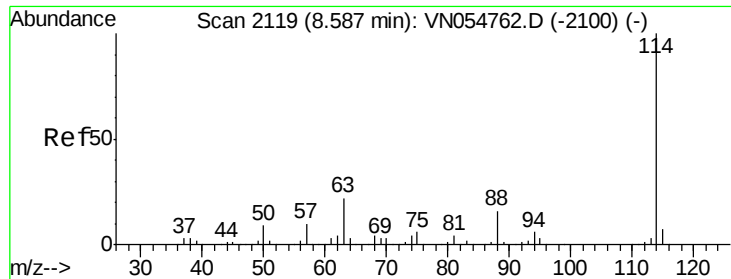
#33
1,2-Dichloroethane-d4
Concen: 49.837 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054895.D
Acq: 2 Apr 2019 12:19

Tgt Ion: 65 Resp: 342977
Ion Ratio Lower Upper
65 100
67 52.3 0.0 104.6



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

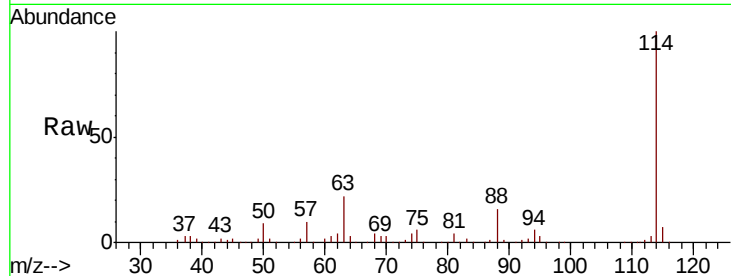




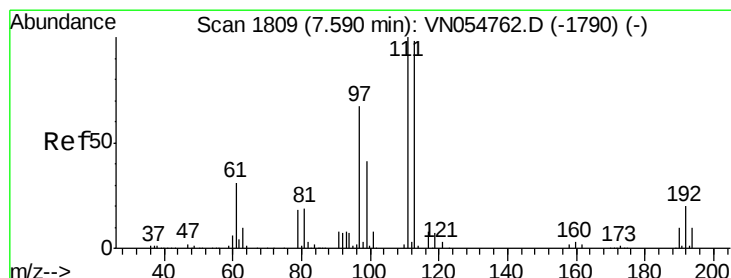
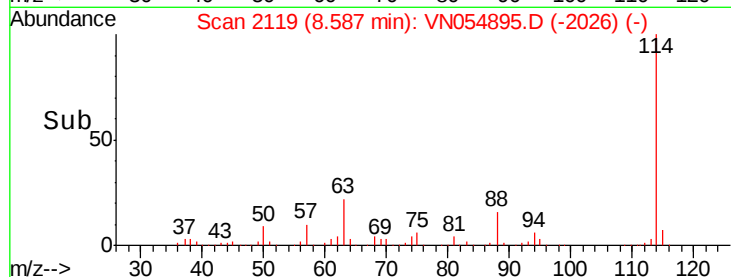
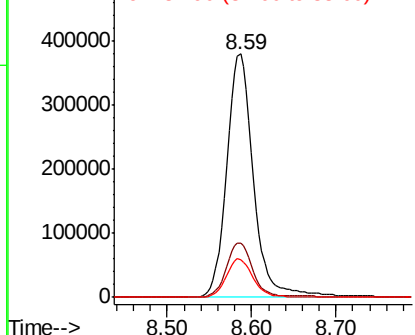
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054895.D
 Acq: 2 Apr 2019 12:19

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.3	0.0	35.2
88	15.6	0.0	30.2

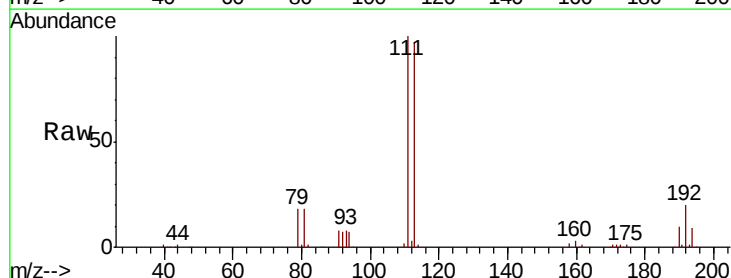


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

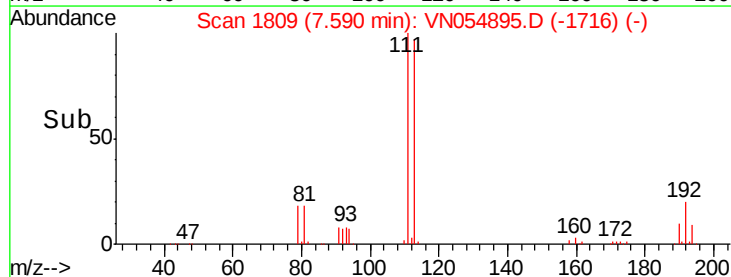
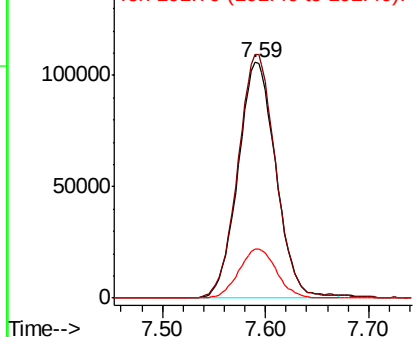


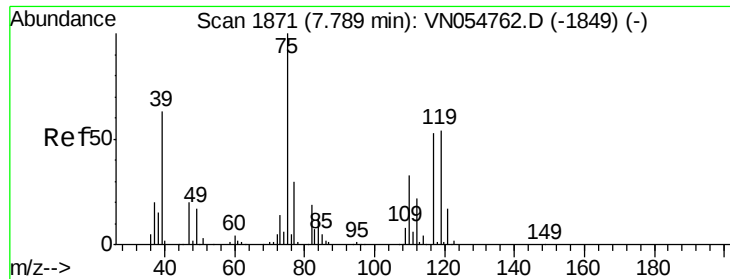
#35
 Dibromofluoromethane
 Concen: 48.396 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054895.D
 Acq: 2 Apr 2019 12:19

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.2	123.4
192	20.7	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

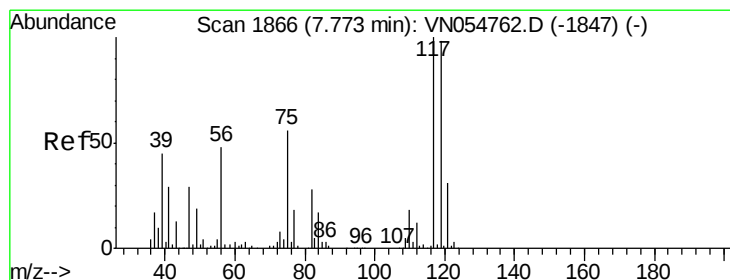
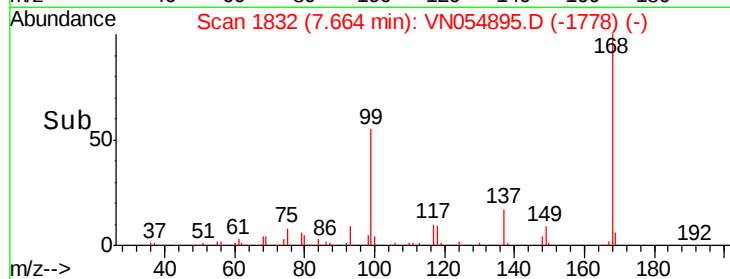
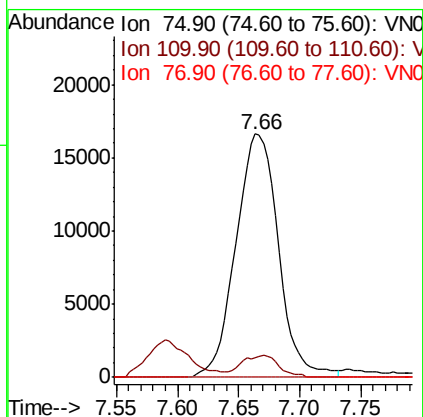
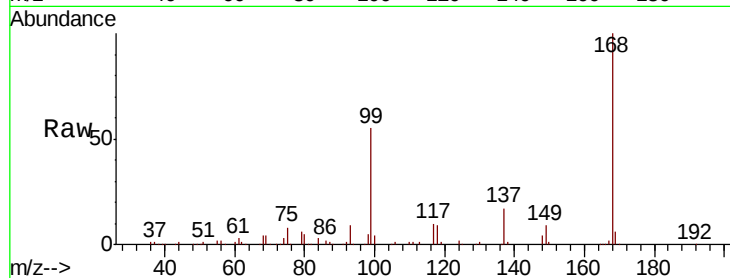




#36
 1,1-Dichloropropene
 Concen: 5.147 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054895.D
 Acq: 2 Apr 2019 12:19

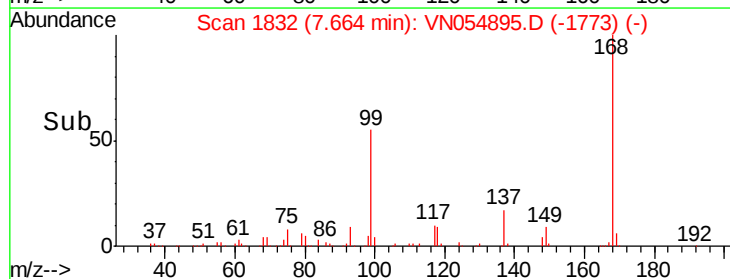
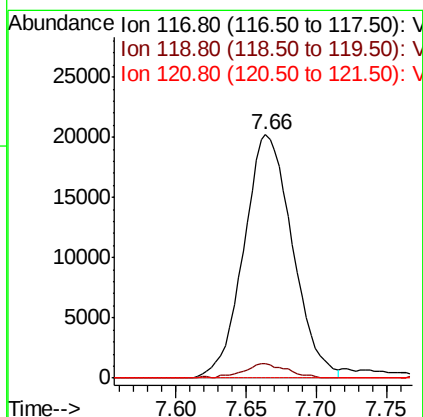
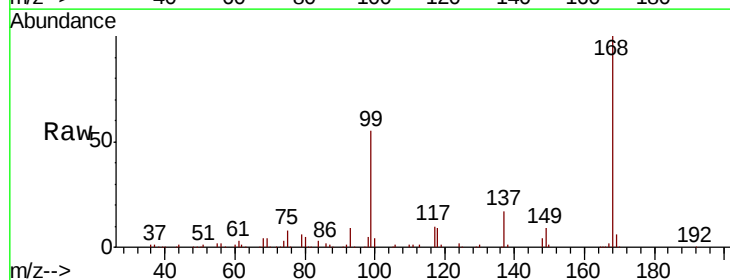
Instrument :
 MSVOA_N
 ClientSampleId :

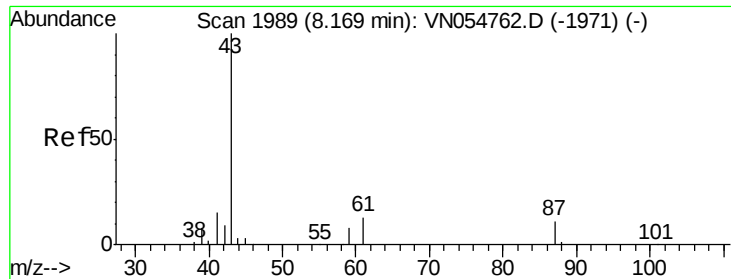
Tot Ion: 75 Resp: 40183
 Ion Ratio Lower Upper
 75 100
 110 7.9 19.1 57.5#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 6.431 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054895.D
 Acq: 2 Apr 2019 12:19

Tgt Ion: 117 Resp: 48764
 Ion Ratio Lower Upper
 117 100
 119 6.1 76.3 114.5#
 121 0.0 24.6 36.8#





#43

Isopropyl Acetate

Concen: 1.194 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054895.D

Acq: 2 Apr 2019 12:19

Instrument :

MSVOA_N

ClientSampleId :

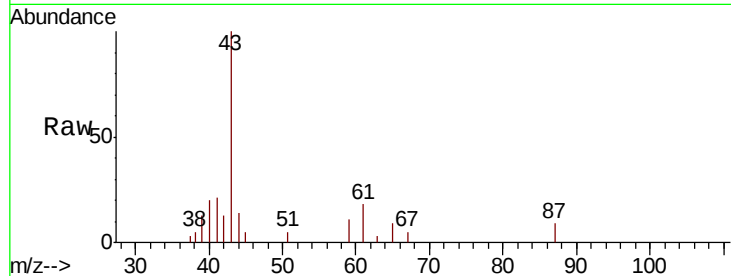
Tot Ion: 43 Resp: 11110

Ion Ratio Lower Upper

43 100

61 19.1 15.8 23.8

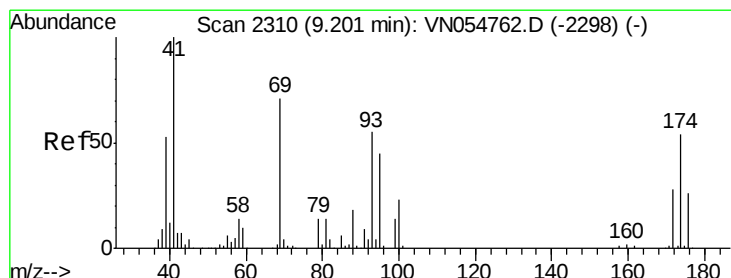
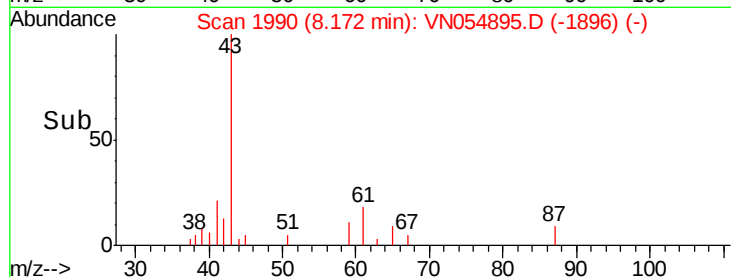
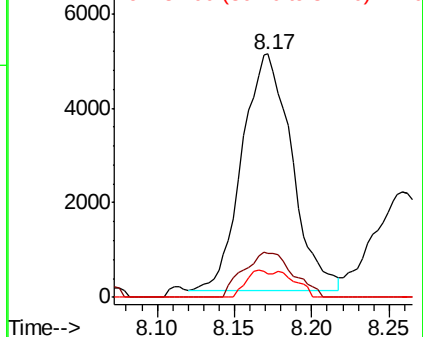
87 5.2 12.0 18.0#



Abundance Ion 43.00 (42.70 to 43.70): VN054762.D (-1971) (-)

Ion 61.00 (60.70 to 61.70): VN054762.D (-1971) (-)

Ion 87.00 (86.70 to 87.70): VN054762.D (-1971) (-)



#48

Methyl methacrylate

Concen: 1.262 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN054895.D

Acq: 2 Apr 2019 12:19

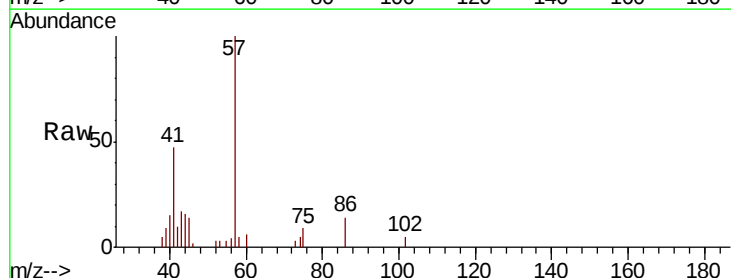
Tgt Ion: 41 Resp: 6363

Ion Ratio Lower Upper

41 100

69 0.0 72.6 108.8#

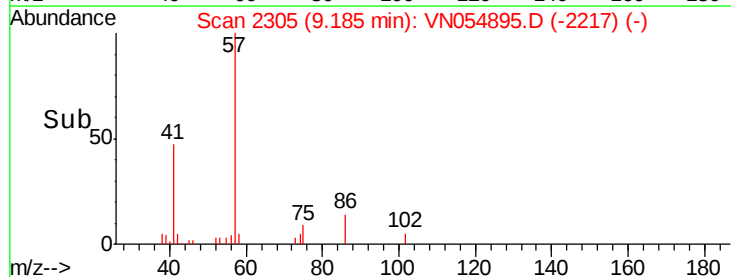
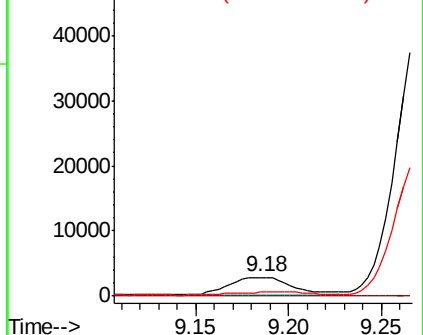
39 31.0 47.5 71.3#

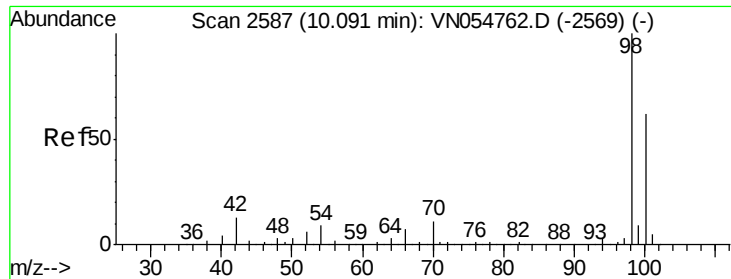


Abundance Ion 41.00 (40.70 to 41.70): VN054762.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN054762.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN054762.D (-2298) (-)





#50

Toluene-d8

Concen: 49.680 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054895.D

Acq: 2 Apr 2019 12:19

Instrument :

MSVOA_N

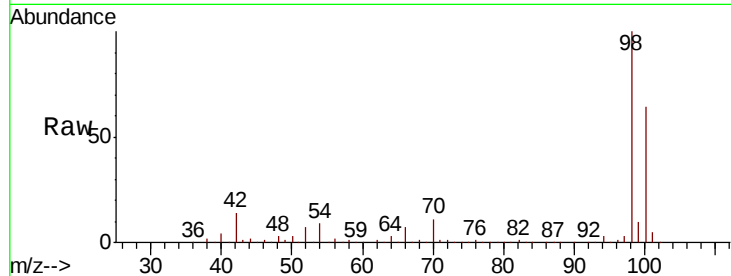
ClientSampleId :

Tot Ion: 98 Resp: 1031698

Ion Ratio Lower Upper

98 100

100 63.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

500000

400000

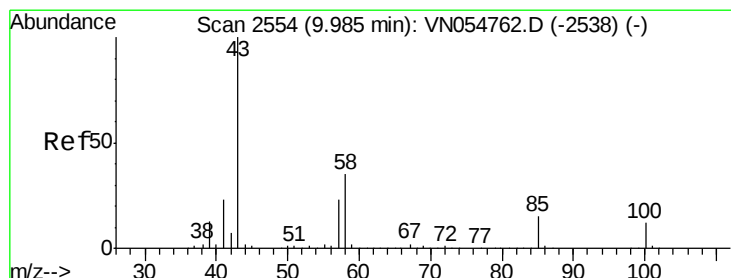
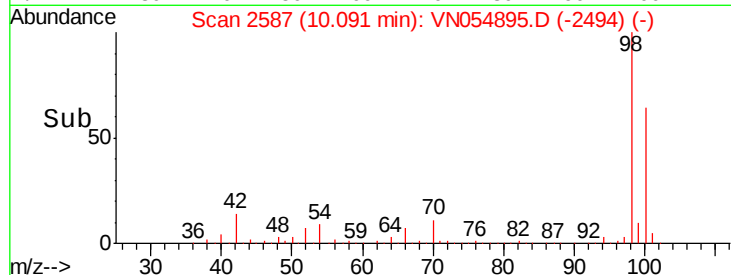
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.873 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054895.D

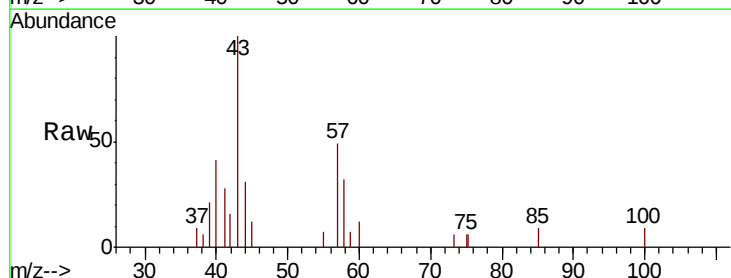
Acq: 2 Apr 2019 12:19

Tgt Ion: 43 Resp: 4567

Ion Ratio Lower Upper

43 100

58 28.4 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

4000

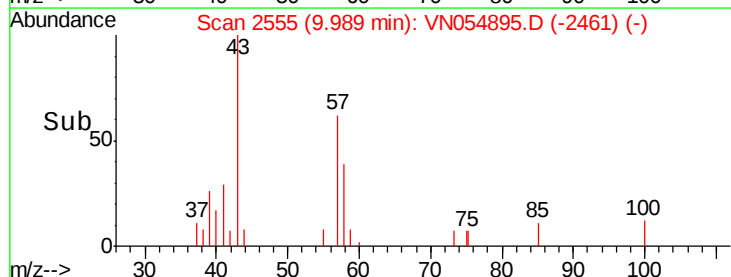
3000

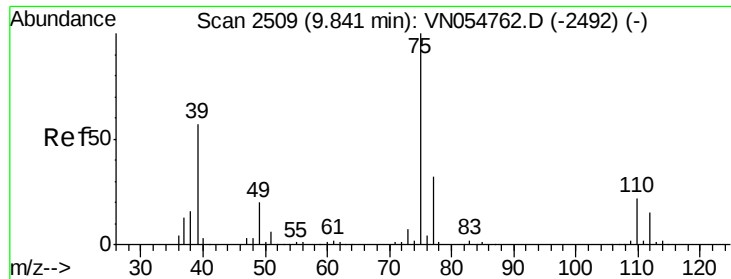
2000

1000

0

Time-->



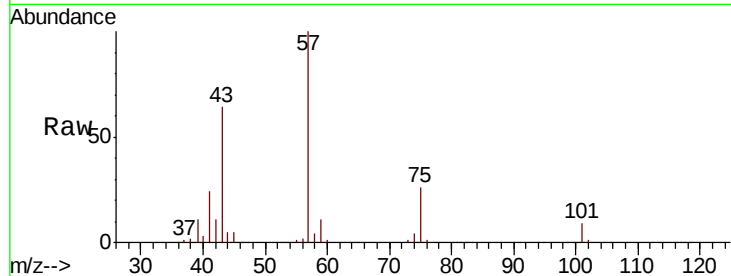


#54

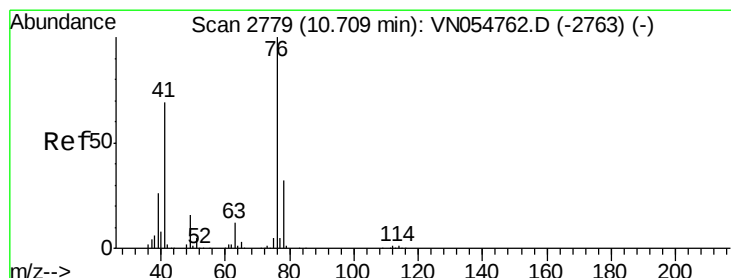
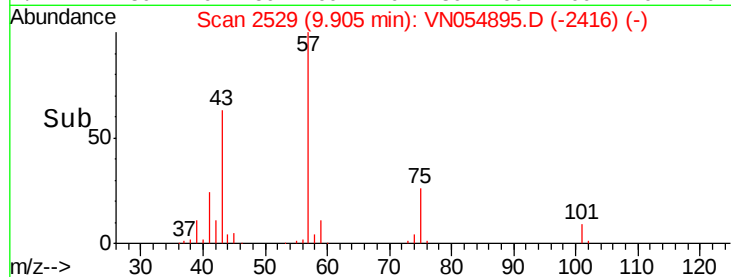
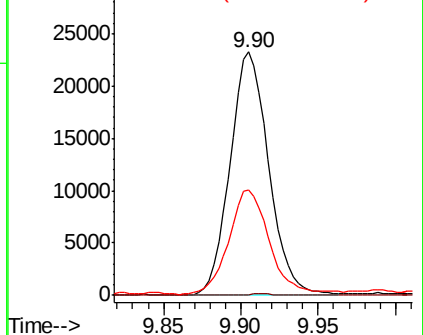
cis-1,3-Dichloropropene
 Concen: 4.824 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN054895.D
 Acq: 2 Apr 2019 12:19

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 40369
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 42.3 37.2 55.8



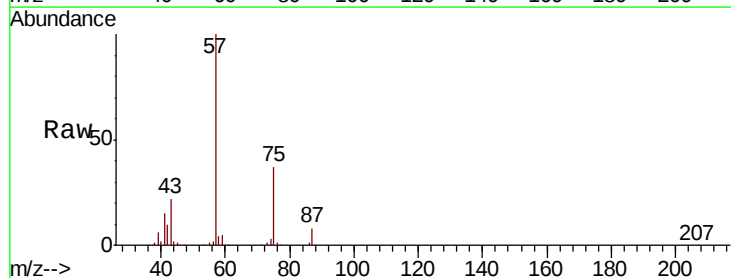
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



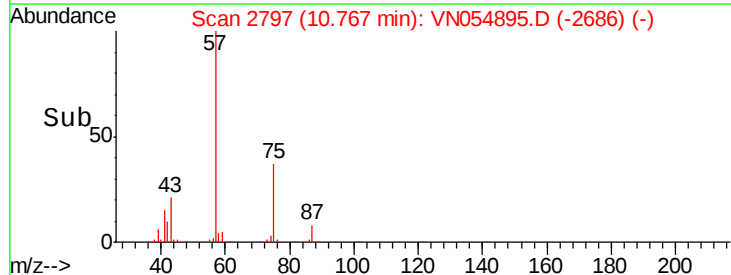
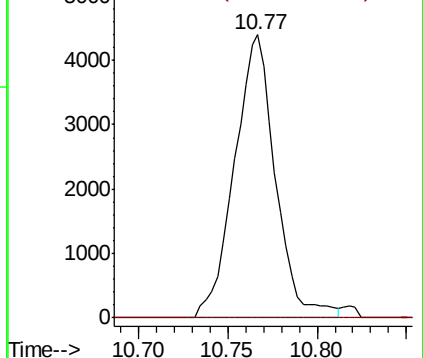
#57

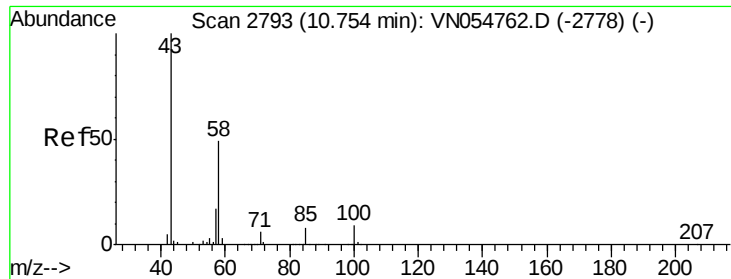
1,3-Dichloropropane
 Concen: 0.828 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN054895.D
 Acq: 2 Apr 2019 12:19

Tgt Ion: 76 Resp: 7040
 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

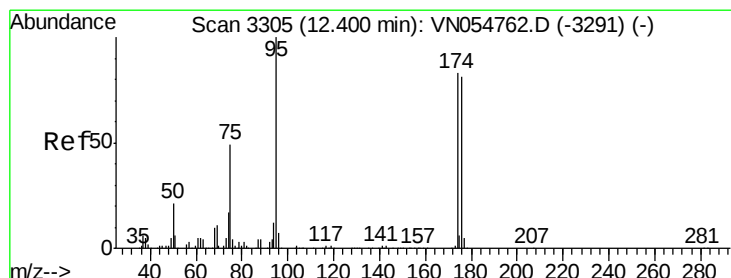
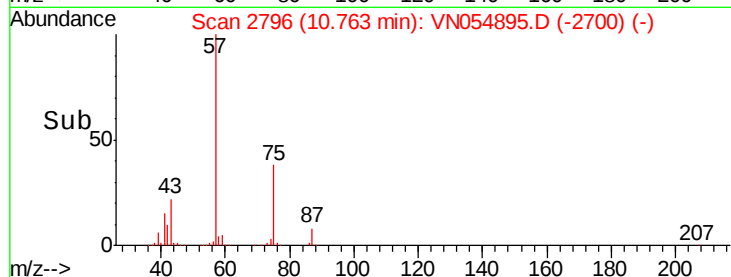
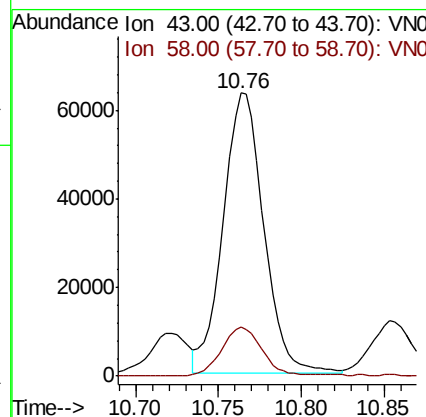
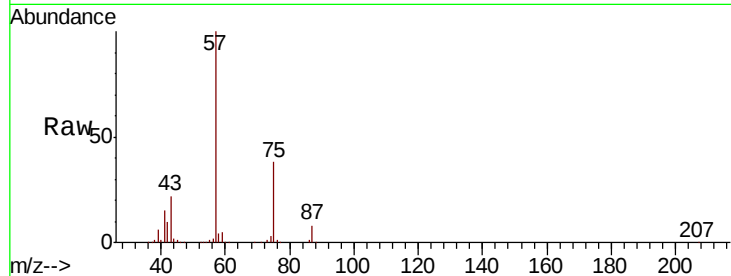




#59
2-Hexanone
Concen: 32.151 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN054895.D
Acq: 2 Apr 2019 12:19

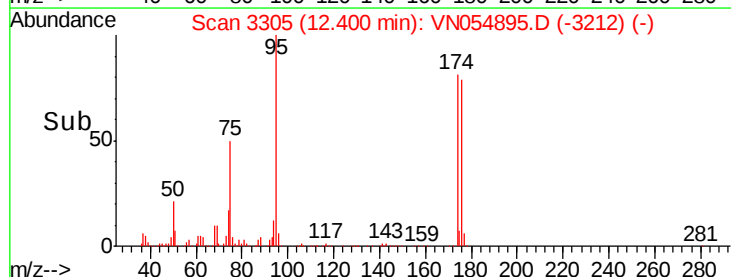
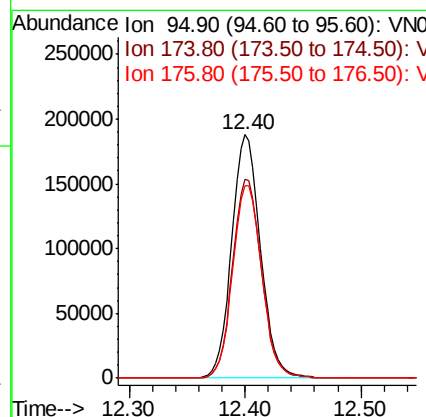
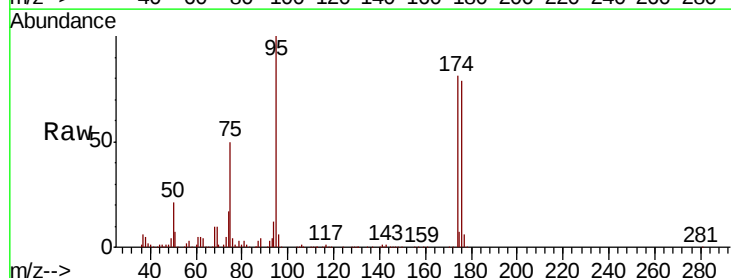
Instrument :
MSVOA_N
ClientSampled :

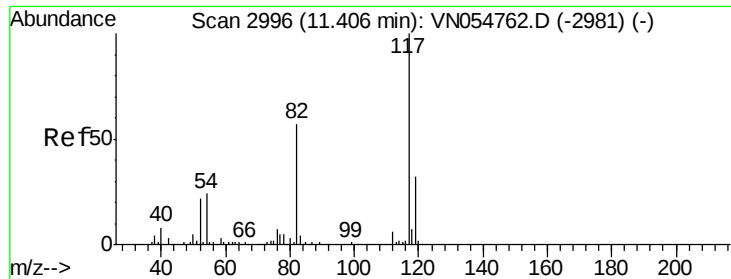
Tot Ion: 43 Resp: 107645
Ion Ratio Lower Upper
43 100
58 17.9 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 46.779 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054895.D
Acq: 2 Apr 2019 12:19

Tgt Ion: 95 Resp: 323083
Ion Ratio Lower Upper
95 100
174 82.1 0.0 191.0
176 80.2 0.0 187.4

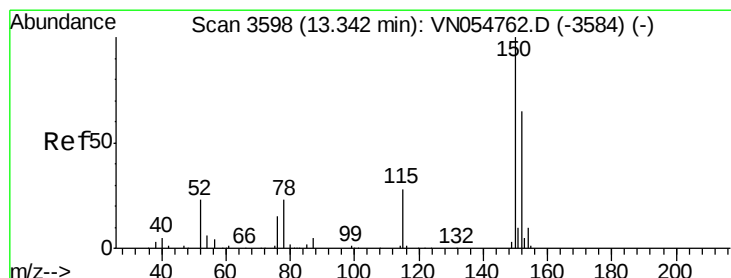
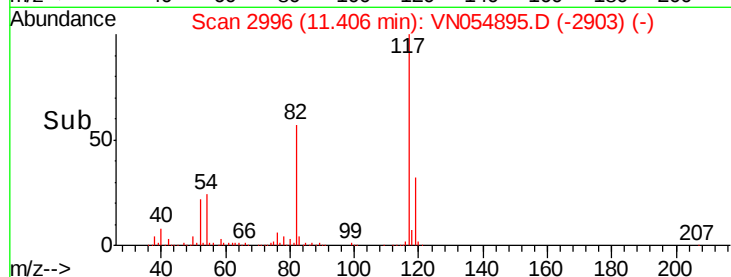
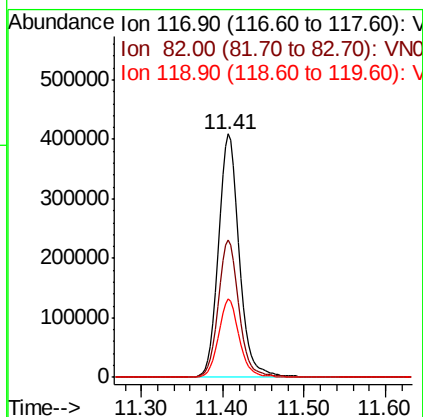
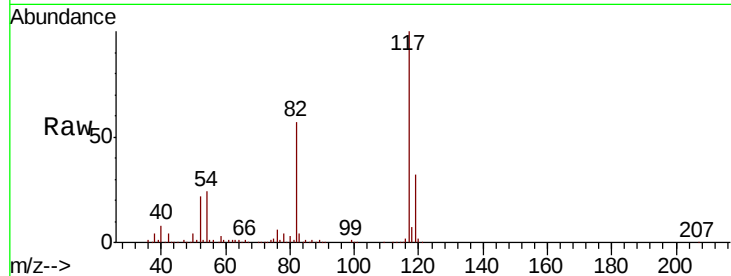




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054895.D
Acq: 2 Apr 2019 12:19

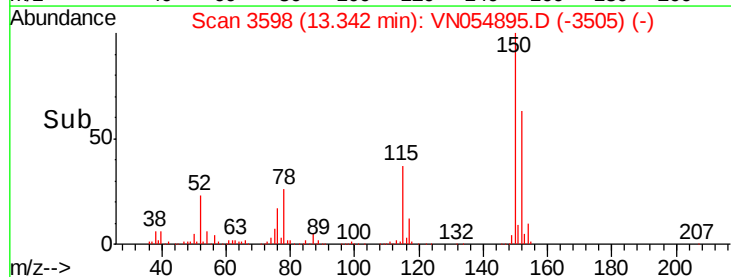
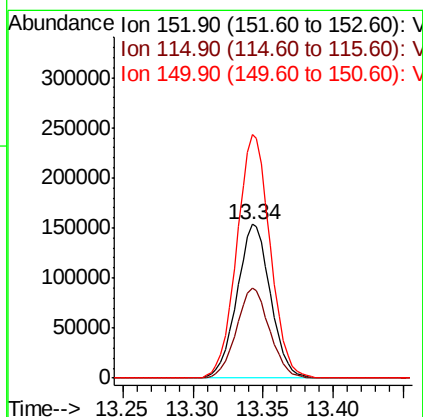
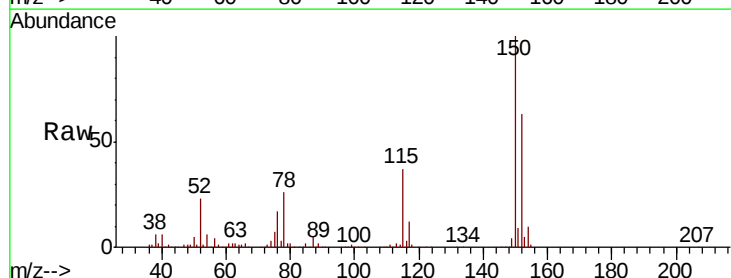
Instrument :
MSVOA_N
ClientSampled :

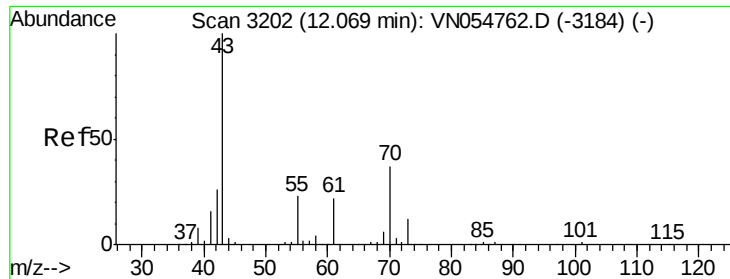
Tot Ion:117 Resp: 741154
Ion Ratio Lower Upper
117 100
82 56.6 40.0 60.0
119 32.4 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN054895.D
Acq: 2 Apr 2019 12:19

Tgt Ion:152 Resp: 255317
Ion Ratio Lower Upper
152 100
115 58.1 27.2 81.6
150 157.5 0.0 349.2





#74

N-amvl acetate

Concen: 1.581 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN054895.D

Acq: 2 Apr 2019 12:19

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 10281

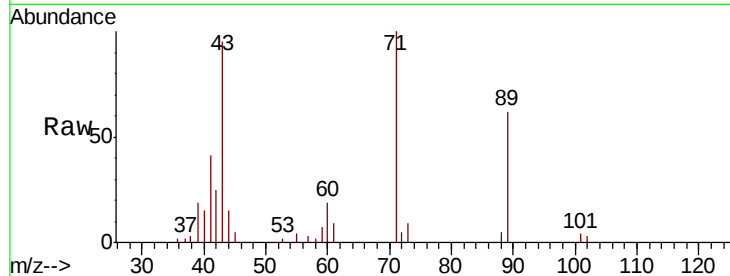
Ion Ratio Lower Upper

43 100

70 0.0 35.4 53.0#

55 4.8 19.8 29.6#

61 10.5 19.8 29.6#

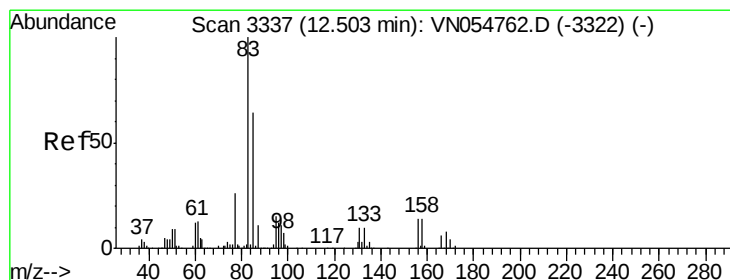
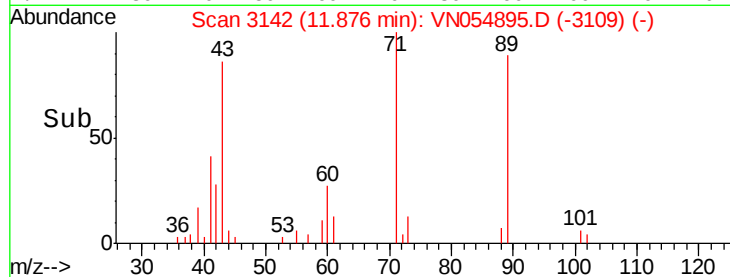
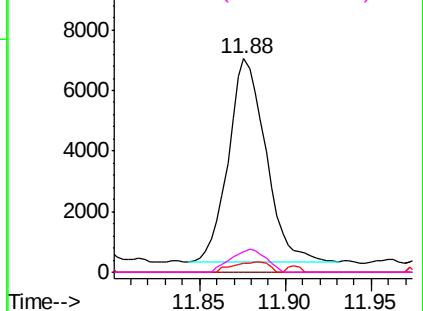


Abundance Ion 43.00 (42.70 to 43.70): VN0

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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.10 min

Lab File: VN054895.D

Acq: 2 Apr 2019 12:19

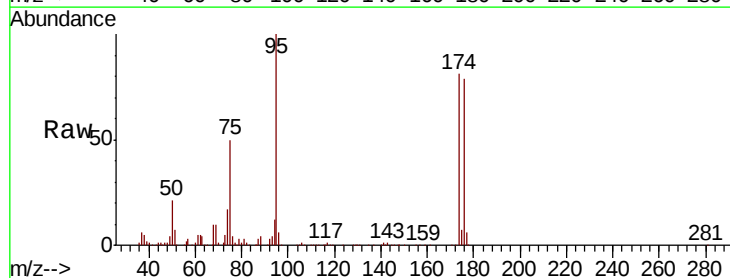
Tgt Ion: 83 Resp: 104

Ion Ratio Lower Upper

83 100

131 264.4 5.8 17.4#

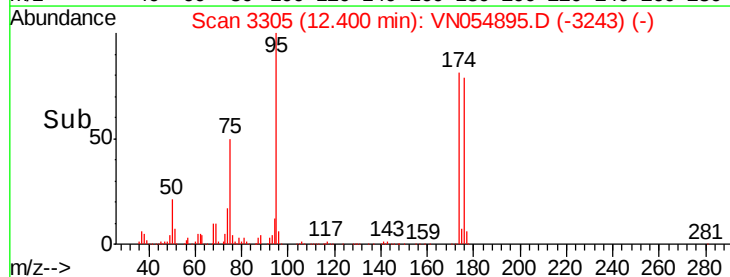
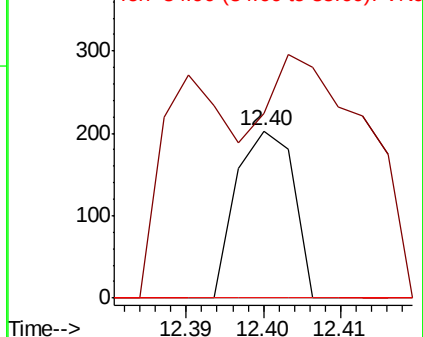
85 0.0 32.2 96.6#

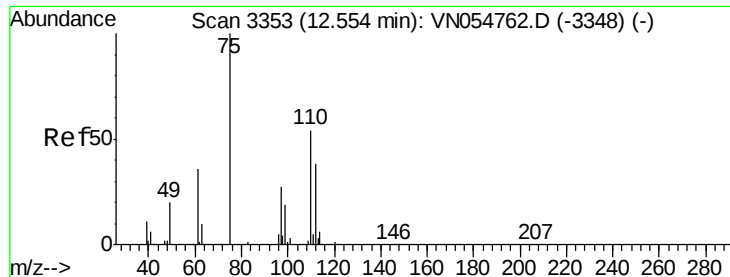


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 36.870 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054895.D

Acq: 2 Apr 2019 12:19

Instrument :

MSVOA_N

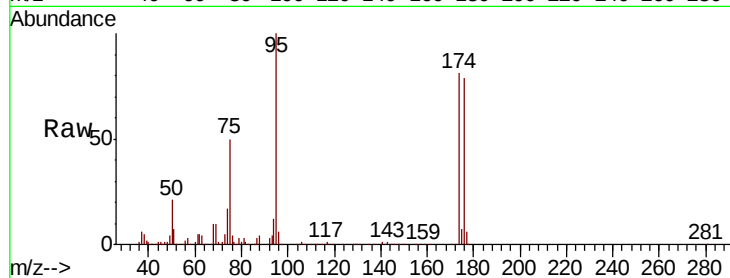
ClientSampled :

Tot Ion: 75 Resp: 163535

Ion Ratio Lower Upper

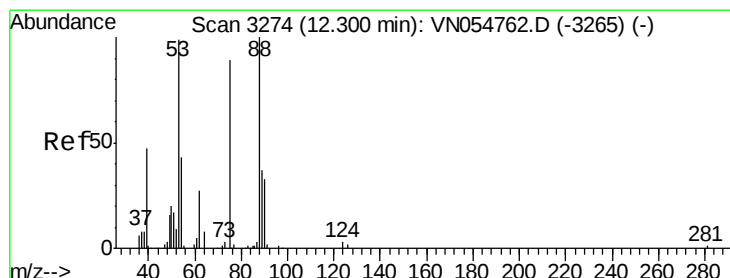
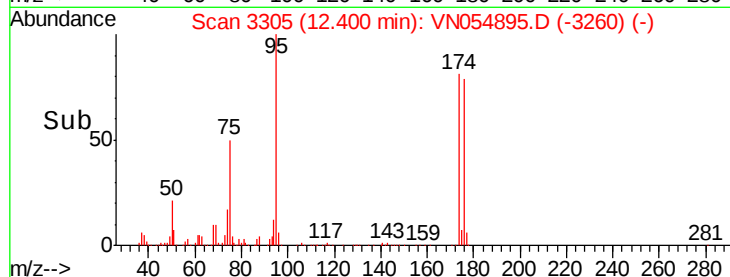
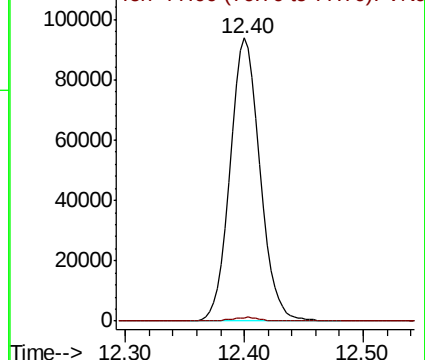
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 143.415 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054895.D

Acq: 2 Apr 2019 12:19

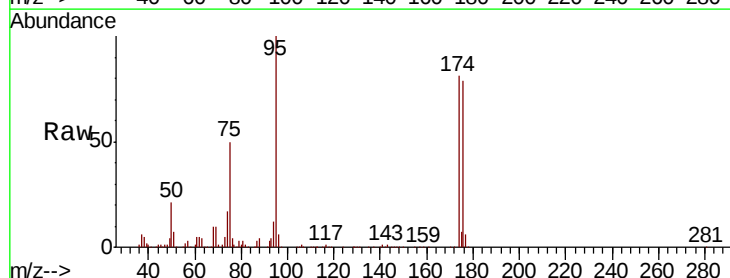
Tgt Ion: 75 Resp: 163535

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

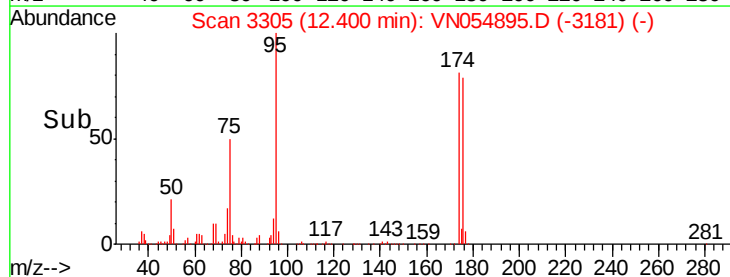
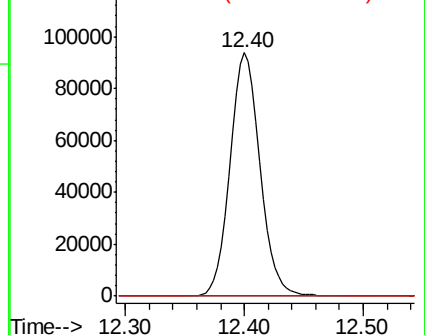
89 0.0 39.2 58.8#

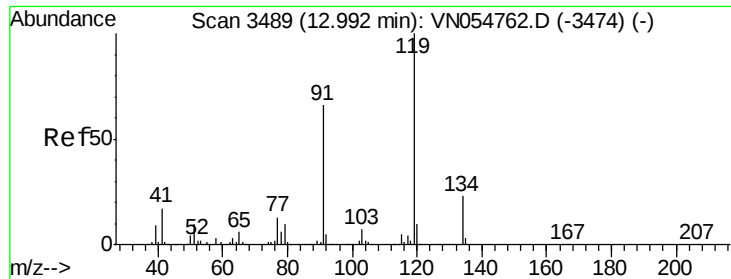


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN054895.D
 Acq: 2 Apr 2019 12:19

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
119	100		
91	21.9	30.9	92.8#
134	0.0	13.2	39.6#

