

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032919\
 Data File : VN054780.D
 Acq On : 29 Mar 2019 19:45
 Operator : JC/SP
 Sample : K2163-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 30 21:46:39 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

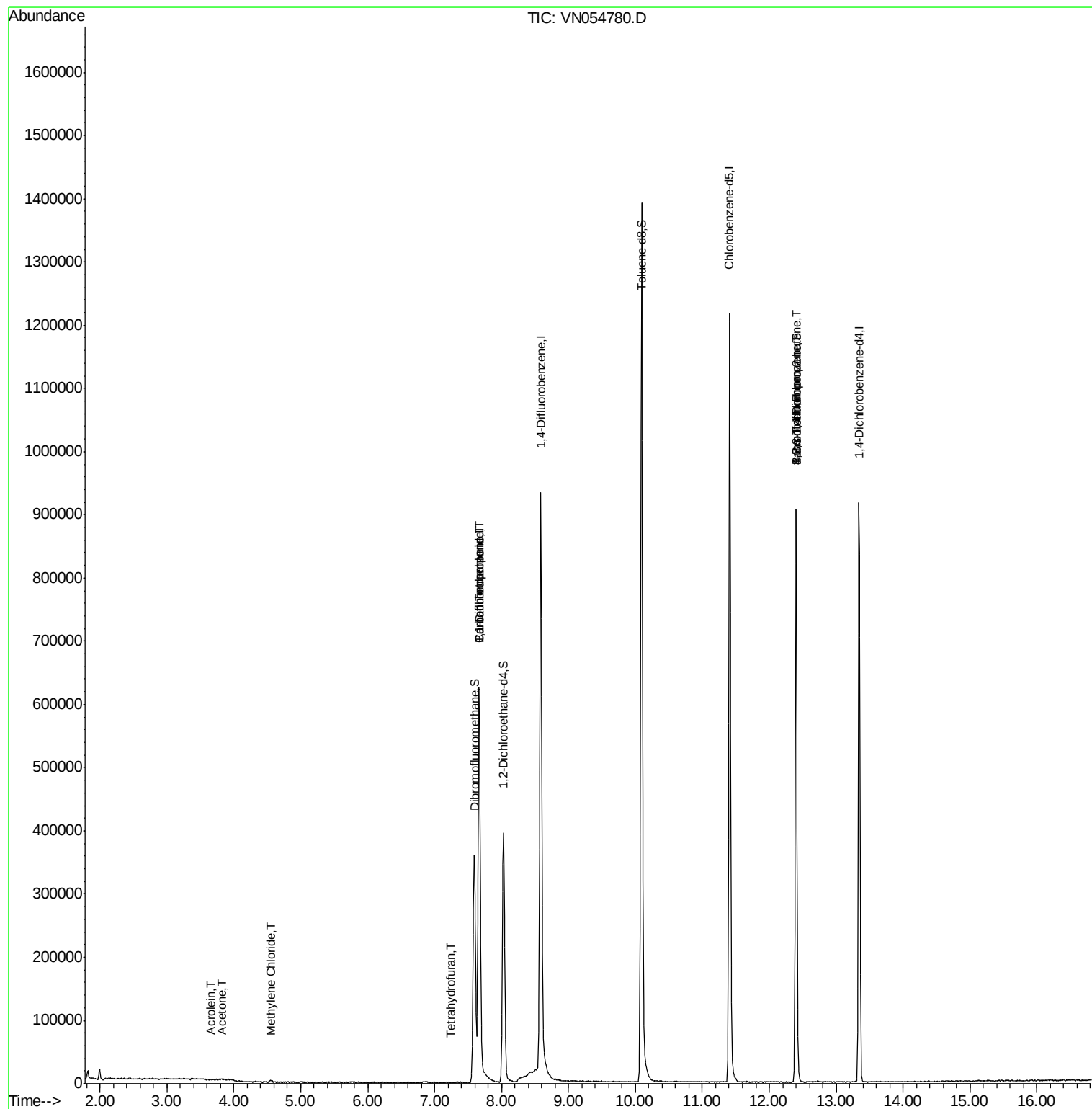
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	530596	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	851649	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	715037	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	245695	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	348564	48.73	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.46%	
35) Dibromofluoromethane	7.59	113	275028	48.44	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.88%	
50) Toluene-d8	10.09	98	1019811	48.31	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.62%	
62) 4-Bromofluorobenzene	12.40	95	309352	44.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.12%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.59	94	169	Below Cal		81
13) Acrolein	3.65	56	102	0.306 ug/l #		50
16) Acetone	3.83	43	1609	0.943 ug/l		91
18) Methyl Acetate	4.34	43	1623	Below Cal #		64
20) Methylene Chloride	4.55	84	1557	0.259 ug/l #		67
29) Tetrahydrofuran	7.23	42	474	0.271 ug/l #		30
31) Cyclohexane	7.67	56	11034	Below Cal #		8
36) 1,1-Dichloropropene	7.66	75	41567	5.238 ug/l #		47
38) Carbon Tetrachloride	7.67	117	49763	6.456 ug/l #		16
71) Bromoform	12.40	173	2090	0.681 ug/l #		1
75) 1,1,2,2-Tetrachloroethane	12.41	83	184	Below Cal #		1
76) 1,2,3-Trichloropropane	12.40	75	160596	37.625 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	160596	146.353 ug/l #		11
83) tert-Butylbenzene	12.73	119	35	Below Cal #		28

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054780.D

Acq: 29 Mar 2019 19:45

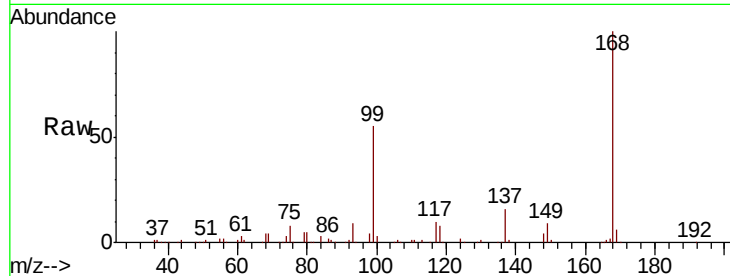
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 530596

Ion Ratio Lower Upper

168 100

99 55.2 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

100000

50000

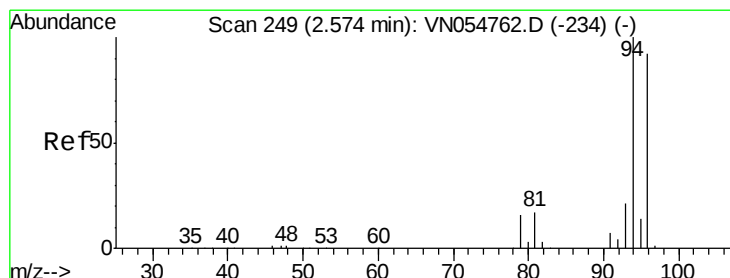
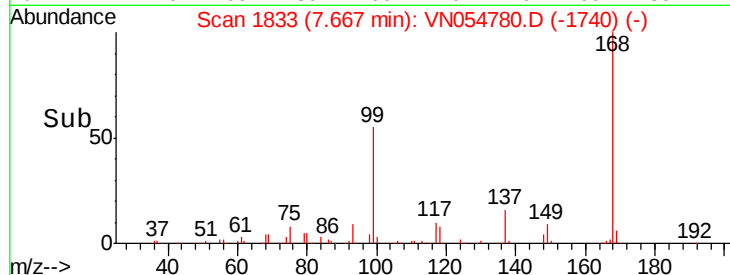
0

7.60

7.70

7.80

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.59 min Scan# 253

Delta R.T. 0.01 min

Lab File: VN054780.D

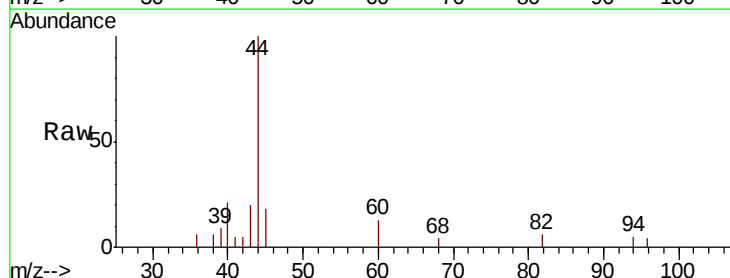
Acq: 29 Mar 2019 19:45

Tgt Ion: 94 Resp: 169

Ion Ratio Lower Upper

94 100

96 77.7 77.0 115.4



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.59

200

150

100

50

0

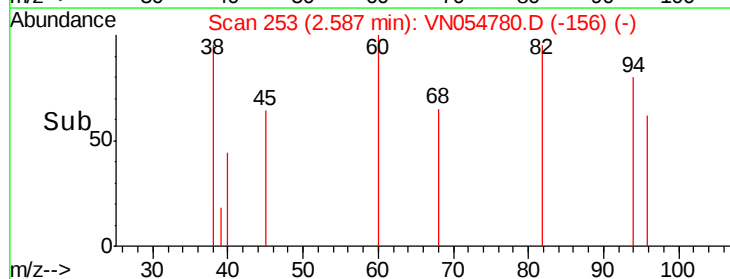
2.57

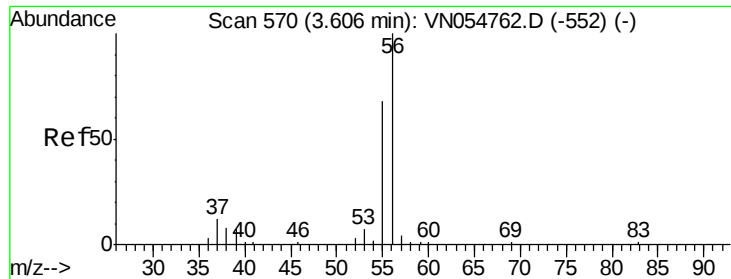
2.58

2.59

2.60

Time-->





#13

Acrolein

Concen: 0.306 ug/l

RT: 3.65 min Scan# 583

Delta R.T. 0.04 min

Lab File: VN054780.D

Acq: 29 Mar 2019 19:45

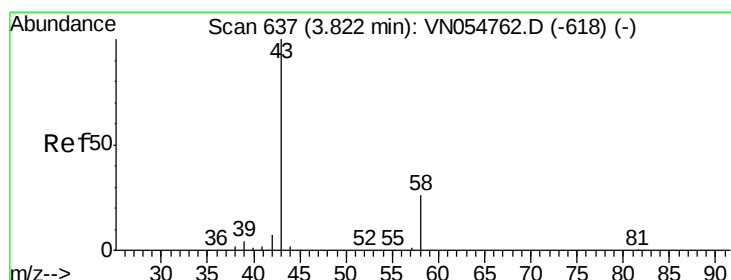
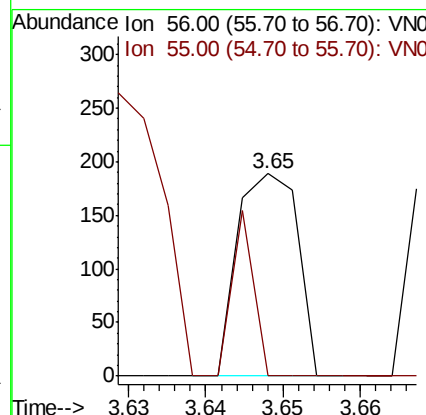
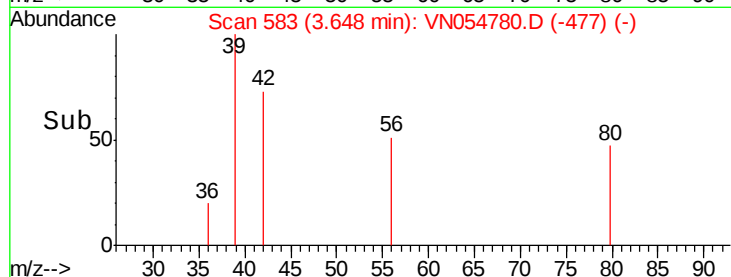
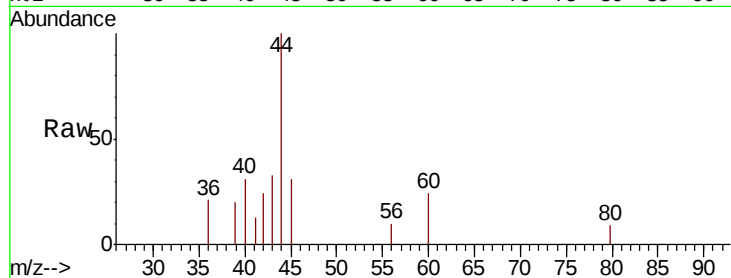
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 102

Ion Ratio Lower Upper

56 100

55 29.4 56.7 85.1#



#16

Acetone

Concen: 0.943 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054780.D

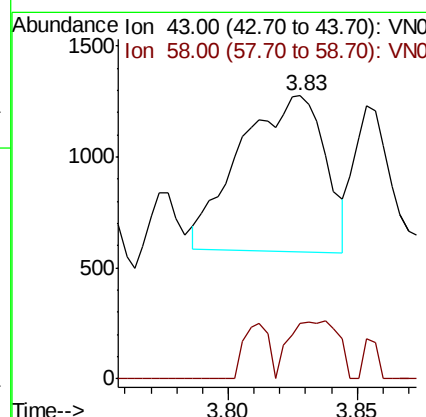
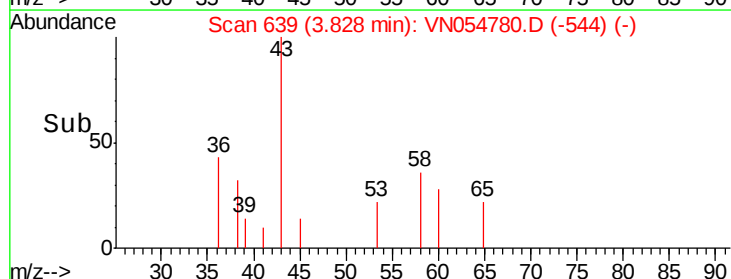
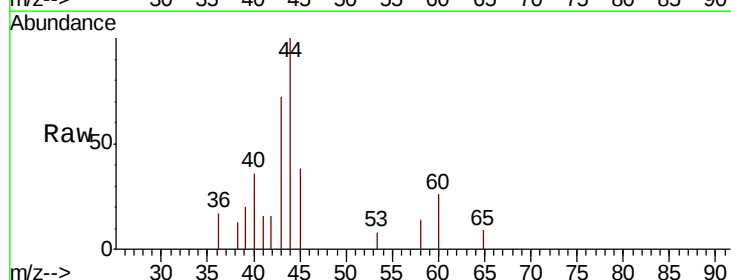
Acq: 29 Mar 2019 19:45

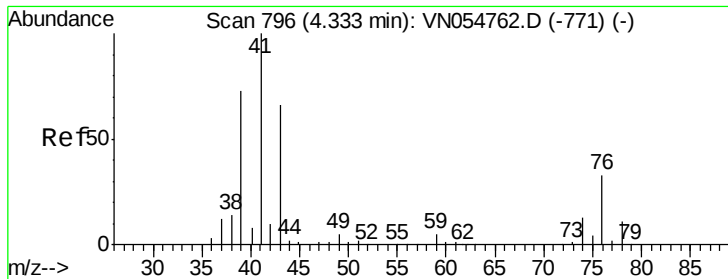
Tgt Ion: 43 Resp: 1609

Ion Ratio Lower Upper

43 100

58 43.0 29.9 44.9

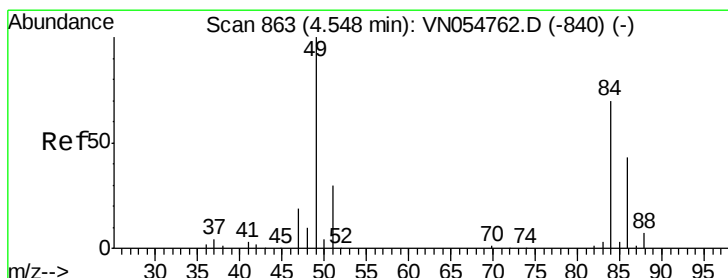
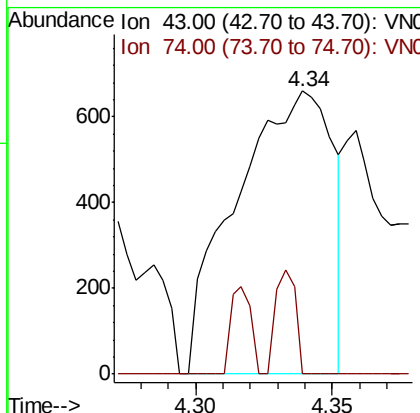
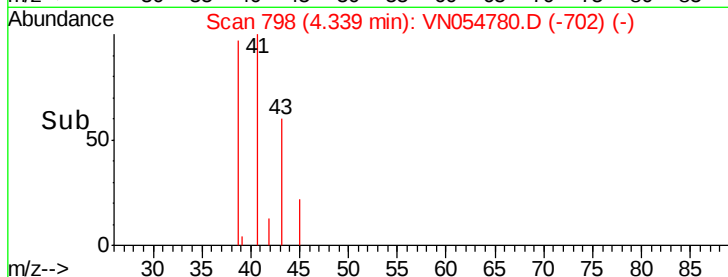
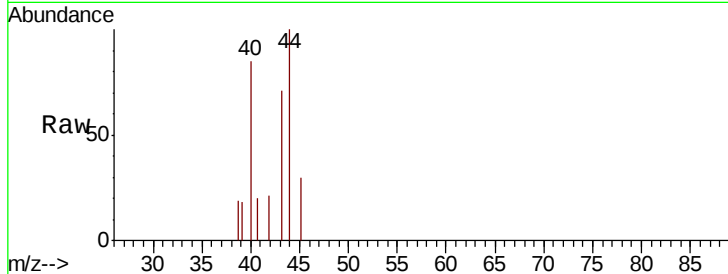




#18
Methyl Acetate
Concen: Below Cal
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN054780.D
Acq: 29 Mar 2019 19:45

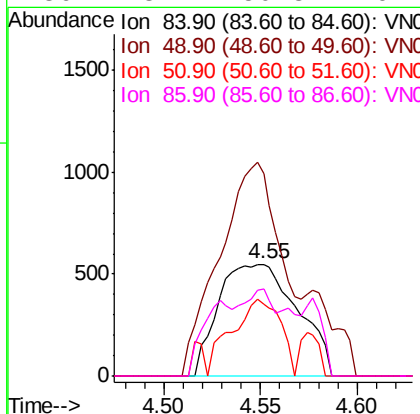
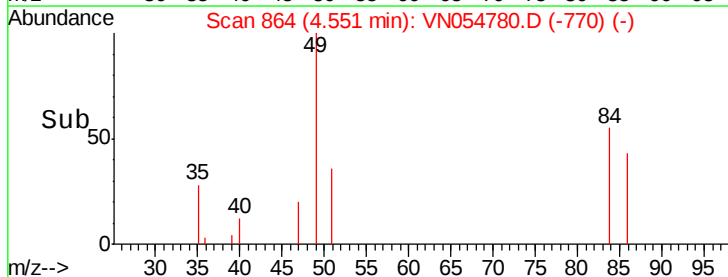
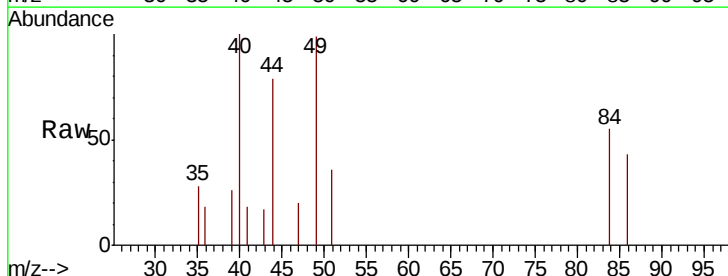
Instrument :
MSVOA_N
ClientSampled :

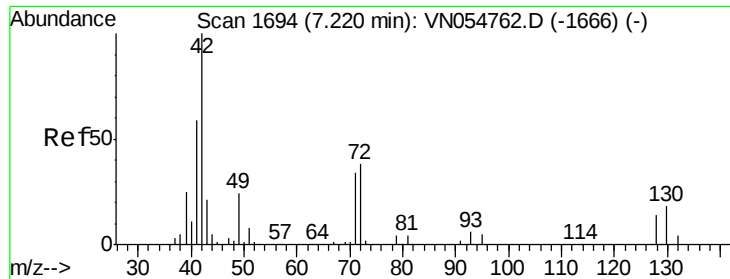
Tot Ion: 43 Resp: 1623
Ion Ratio Lower Upper
43 100
74 7.6 20.8 31.2#



#20
Methylene Chloride
Concen: 0.259 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN054780.D
Acq: 29 Mar 2019 19:45

Tgt Ion: 84 Resp: 1557
Ion Ratio Lower Upper
84 100
49 151.0 89.7 134.5#
51 64.7 28.2 42.4#
86 78.1 50.8 76.2#





#29

Tetrahydrofuran

Concen: 0.271 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN054780.D

Acq: 29 Mar 2019 19:45

Instrument :

MSVOA_N

ClientSampleId :

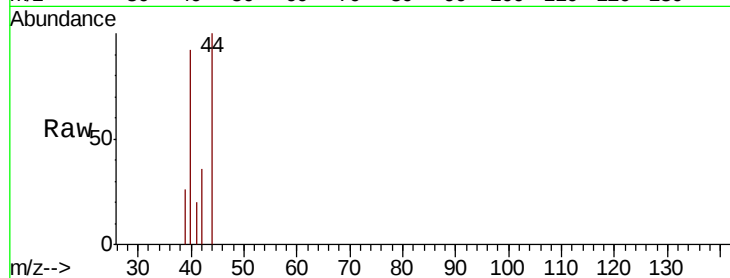
Tot Ion: 42 Resp: 474

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

71 0.0 36.2 54.2#

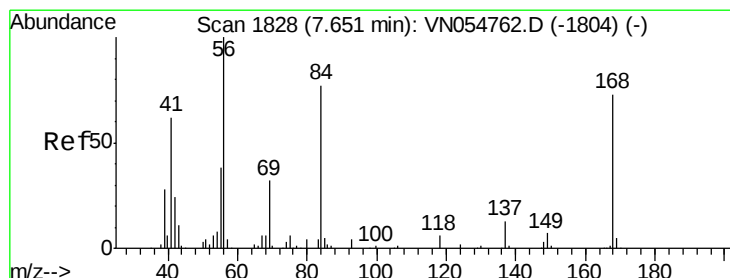
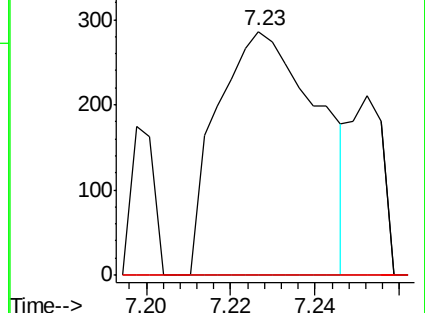
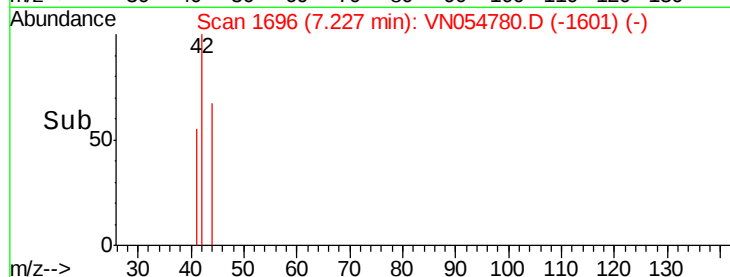


Abundance Ion 42.00 (41.70 to 42.70): VN054762.D (-1666) (-)

Ion 72.00 (71.70 to 72.70): VN054762.D (-1666) (-)

Ion 71.00 (70.70 to 71.70): VN054762.D (-1666) (-)

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054780.D

Acq: 29 Mar 2019 19:45

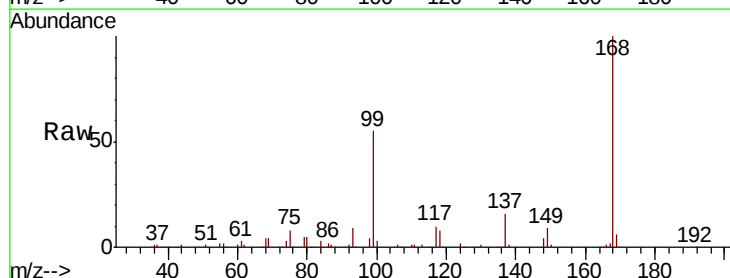
Tgt Ion: 56 Resp: 11034

Ion Ratio Lower Upper

56 100

69 172.8 27.8 41.6#

84 129.0 74.6 111.8#

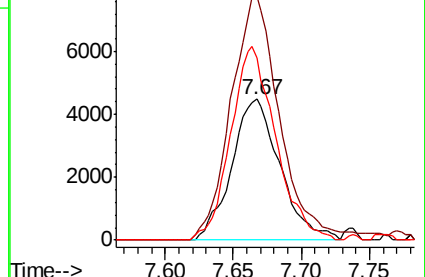
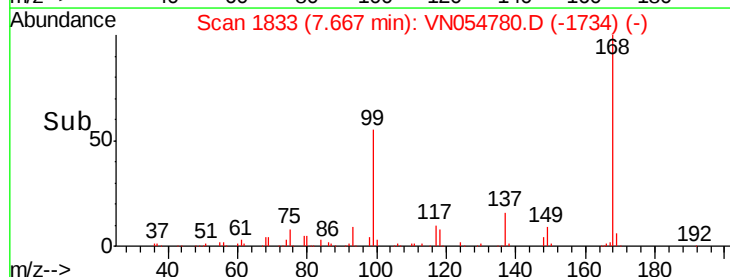


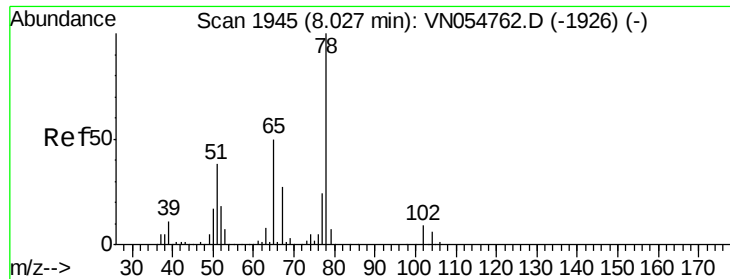
Abundance Ion 56.00 (55.70 to 56.70): VN054762.D (-1804) (-)

Ion 69.00 (68.70 to 69.70): VN054762.D (-1804) (-)

Ion 84.00 (83.70 to 84.70): VN054762.D (-1804) (-)

Time-->

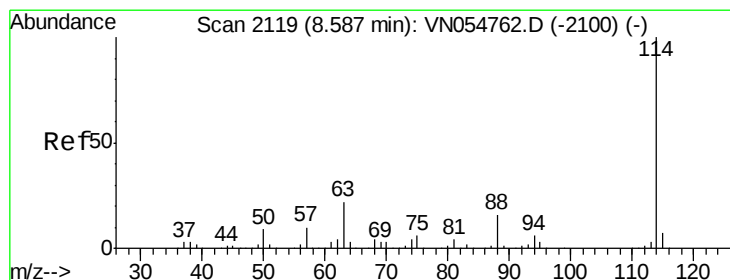
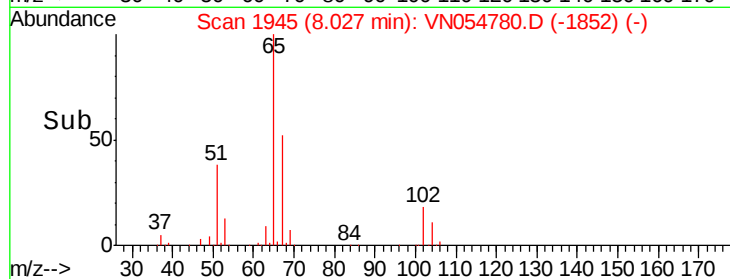
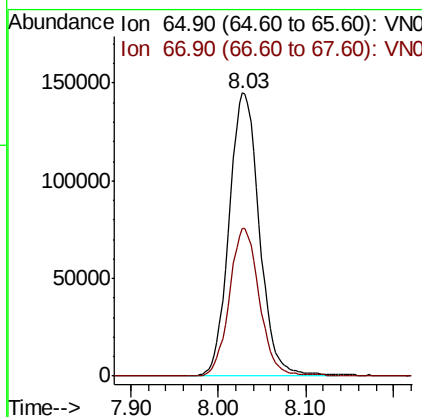
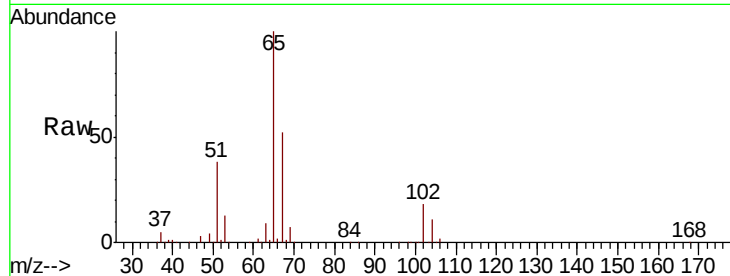




#33
 1,2-Dichloroethane-d4
 Concen: 48.733 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054780.D
 Acq: 29 Mar 2019 19:45

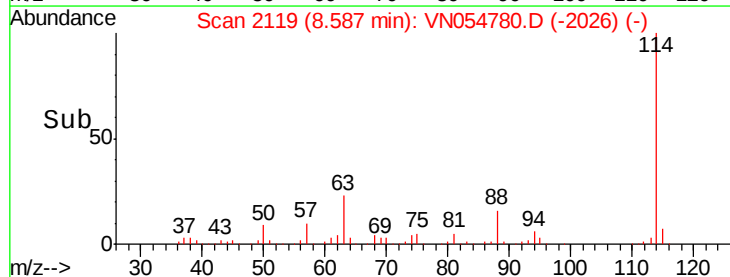
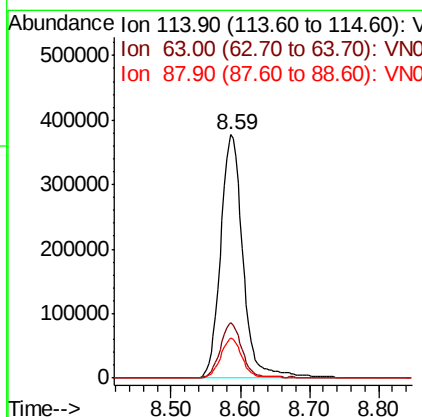
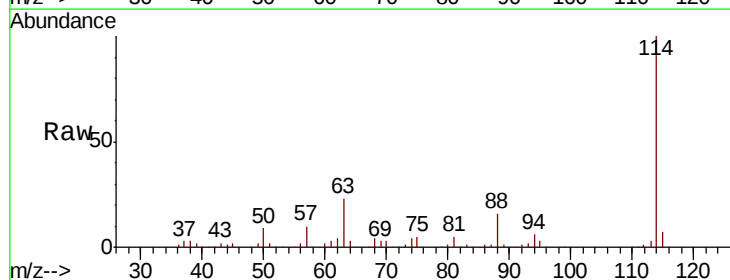
Instrument :
 MSVOA_N
 ClientSampleId :

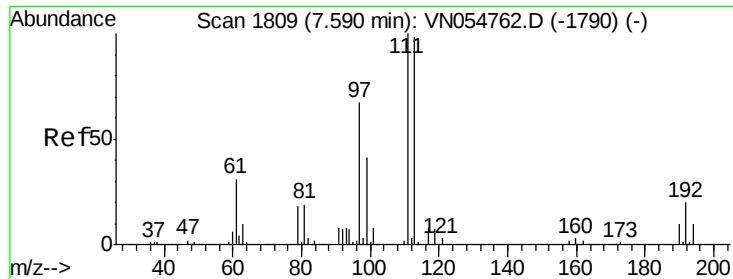
Tot Ion: 65 Resp: 348564
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054780.D
 Acq: 29 Mar 2019 19:45

Tgt Ion: 114 Resp: 851649
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 35.2
 88 16.4 0.0 30.2





#35

Dibromofluoromethane

Concen: 48.439 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054780.D

Acq: 29 Mar 2019 19:45

Instrument :
MSVOA_N
ClientSampleId :

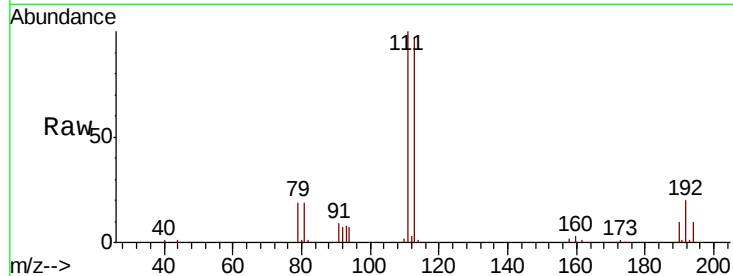
Tot Ion:113 Resp: 275028

Ion Ratio Lower Upper

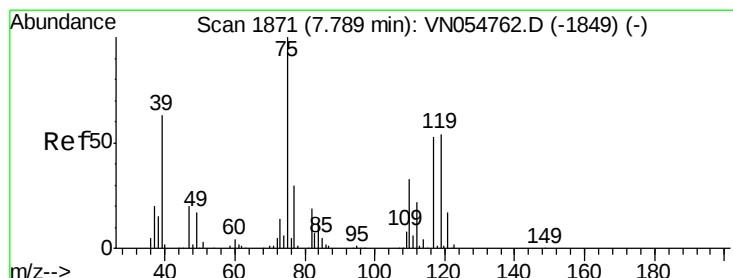
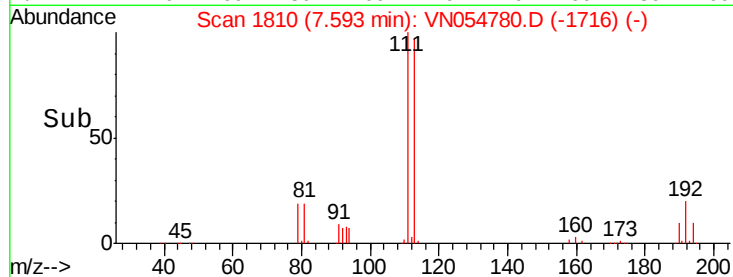
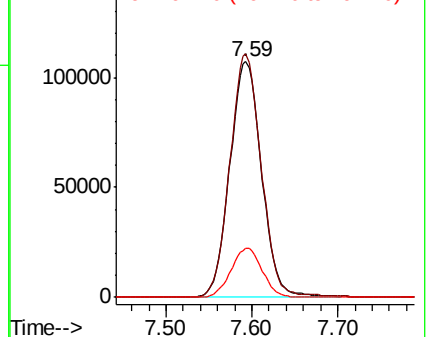
113 100

111 102.1 82.2 123.4

192 20.3 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: 5.238 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054780.D

Acq: 29 Mar 2019 19:45

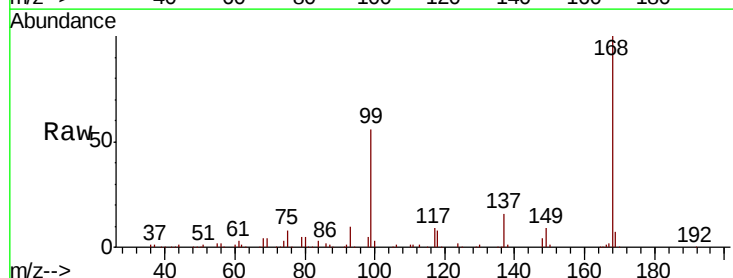
Tgt Ion: 75 Resp: 41567

Ion Ratio Lower Upper

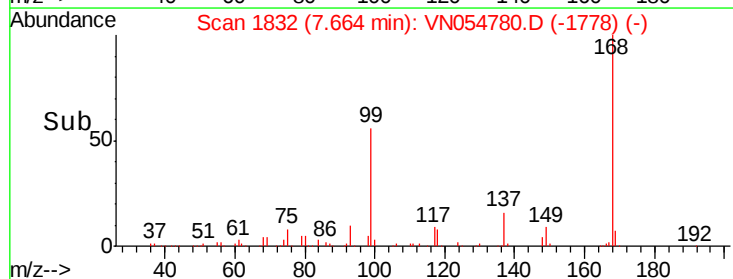
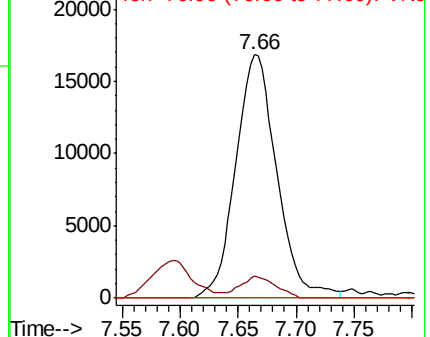
75 100

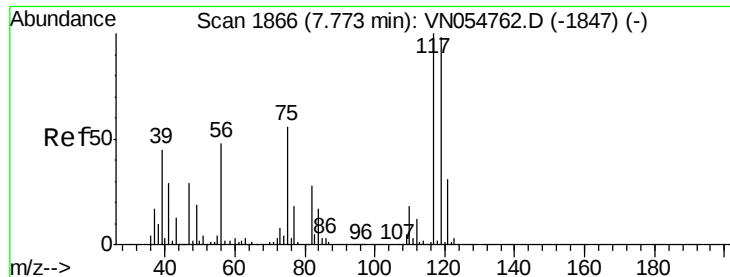
110 7.5 19.1 57.5#

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: 6.456 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054780.D

Acq: 29 Mar 2019 19:45

Instrument :

MSVOA_N

ClientSampleId :

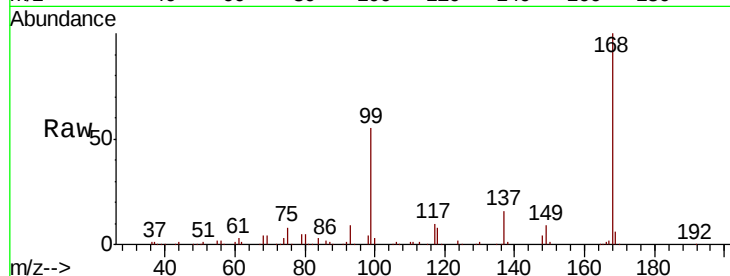
Tot Ion:117 Resp: 49763

Ion Ratio Lower Upper

117 100

119 4.4 76.3 114.5#

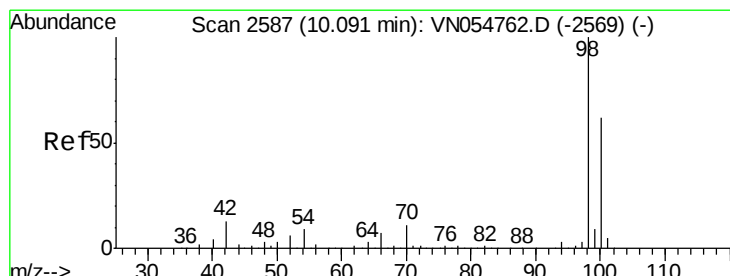
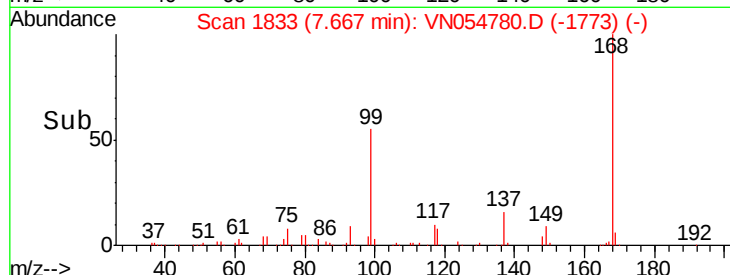
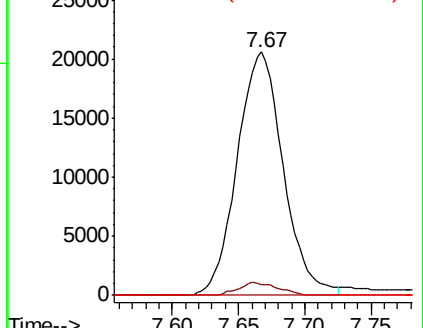
121 0.0 24.6 36.8#



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



#50

Toluene-d8

Concen: 48.311 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054780.D

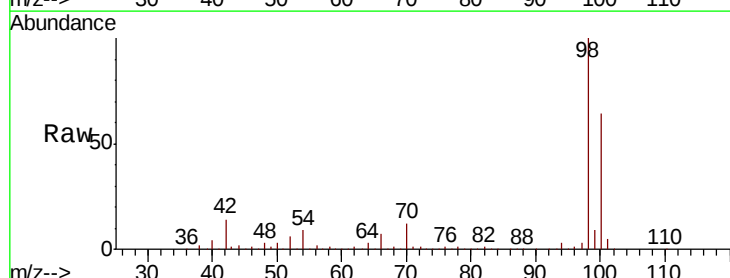
Acq: 29 Mar 2019 19:45

Tgt Ion: 98 Resp: 1019811

Ion Ratio Lower Upper

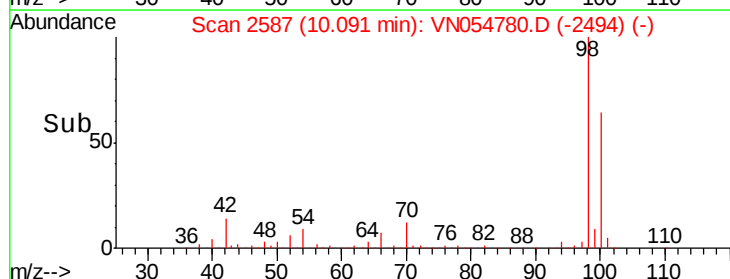
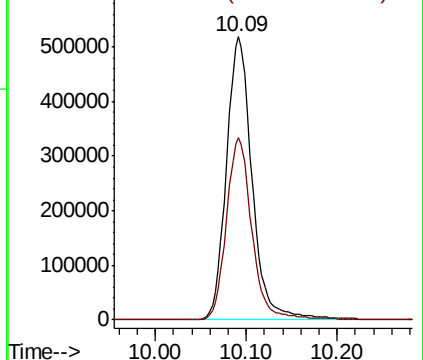
98 100

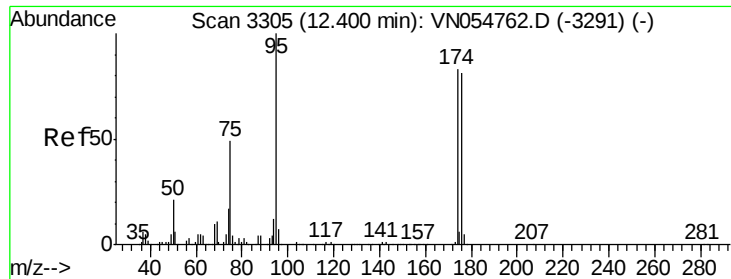
100 63.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

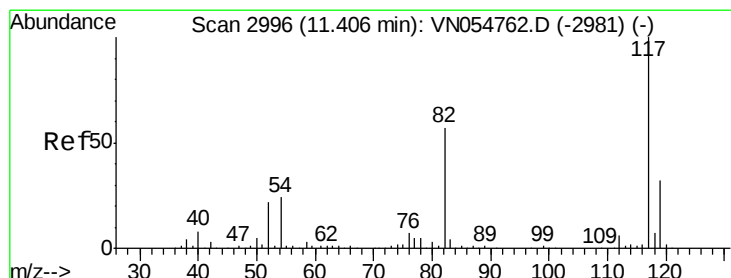
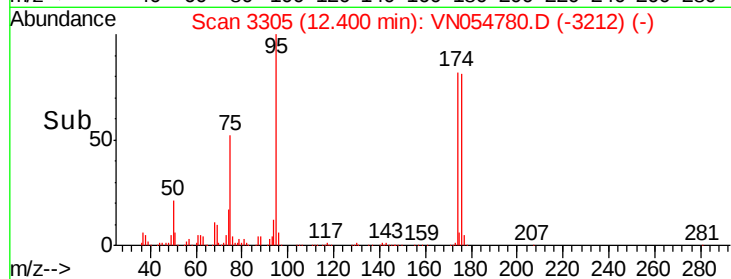
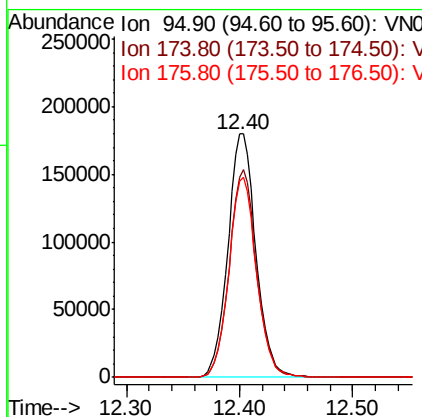
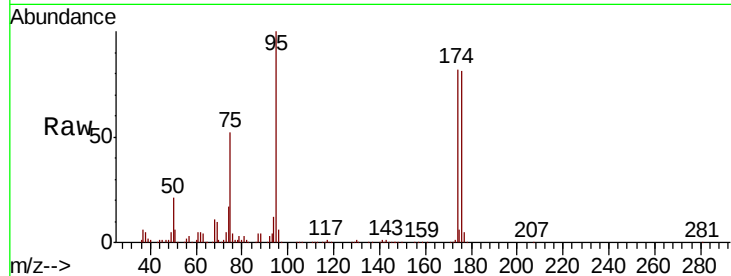




#62
4-Bromofluorobenzene
Concen: 44.065 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054780.D
Acq: 29 Mar 2019 19:45

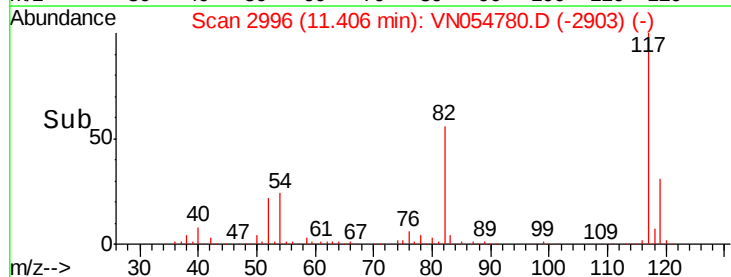
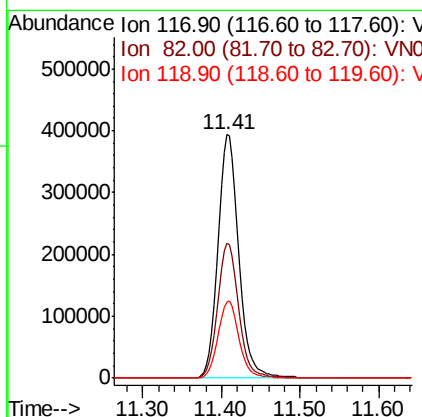
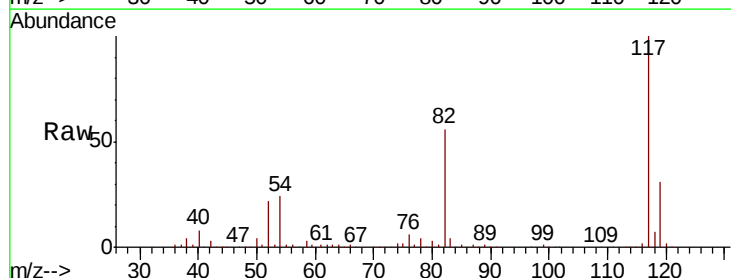
Instrument :
MSVOA_N
ClientSampled :

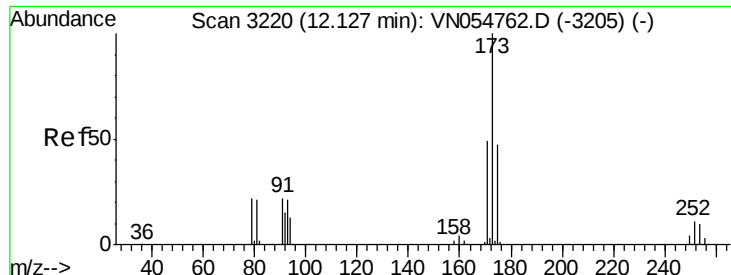
Tot Ion	Ratio	Lower	Upper
95	100		
174	83.2	0.0	191.0
176	81.2	0.0	187.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054780.D
Acq: 29 Mar 2019 19:45

Tgt Ion	Ratio	Lower	Upper
117	100		
82	55.6	40.0	60.0
119	31.4	25.8	38.6





#71

Bromoform

Concen: 0.681 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN054780.D

Acq: 29 Mar 2019 19:45

Instrument :

MSVOA_N

ClientSampleId :

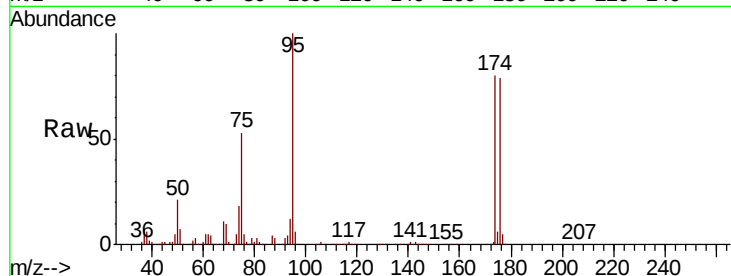
Tot Ion:173 Resp: 2090

Ion Ratio Lower Upper

173 100

175 793.0 24.4 73.2#

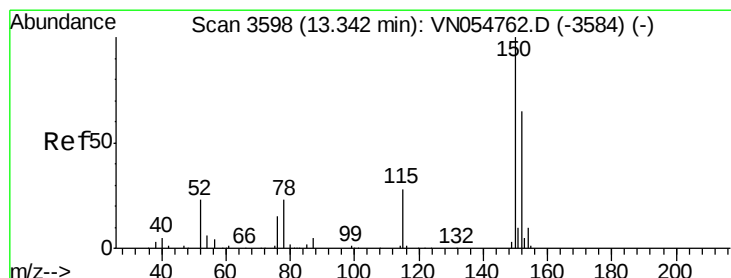
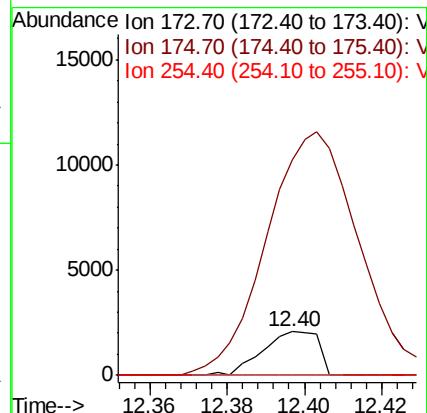
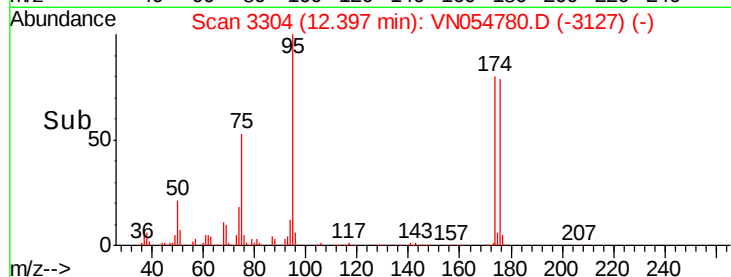
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054780.D

Acq: 29 Mar 2019 19:45

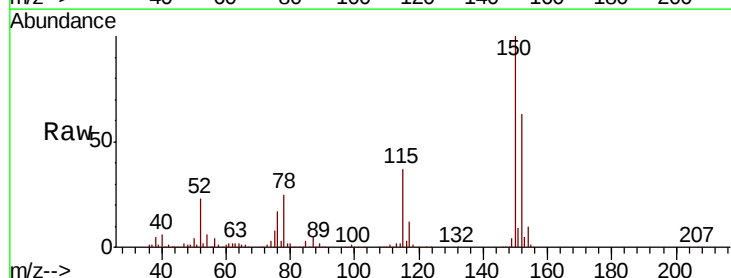
Tgt Ion:152 Resp: 245695

Ion Ratio Lower Upper

152 100

115 58.1 27.2 81.6

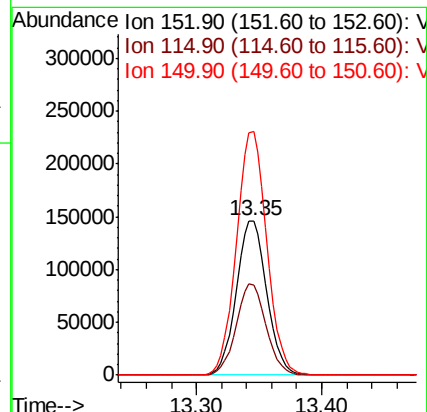
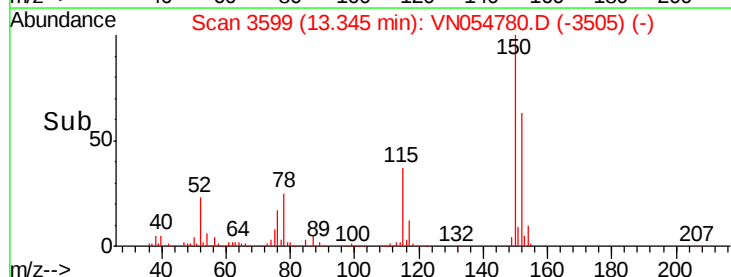
150 157.7 0.0 349.2

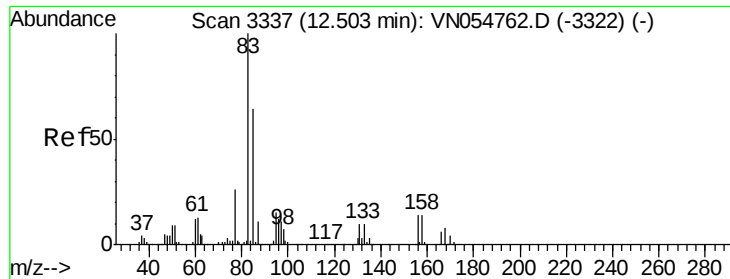


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.41 min Scan# 3307

Delta R.T. -0.10 min

Lab File: VN054780.D

Acq: 29 Mar 2019 19:45

Instrument :

MSVOA_N

ClientSampled :

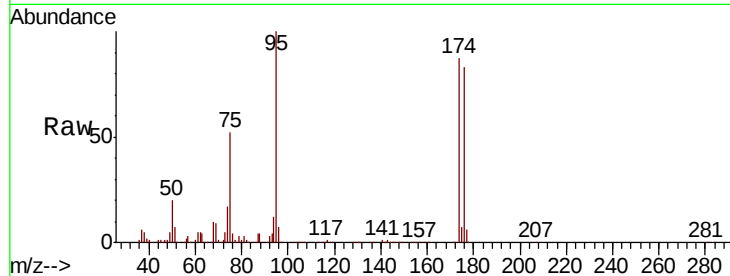
Tot Ion: 83 Resp: 184

Ion Ratio Lower Upper

83 100

131 261.4 5.8 17.4#

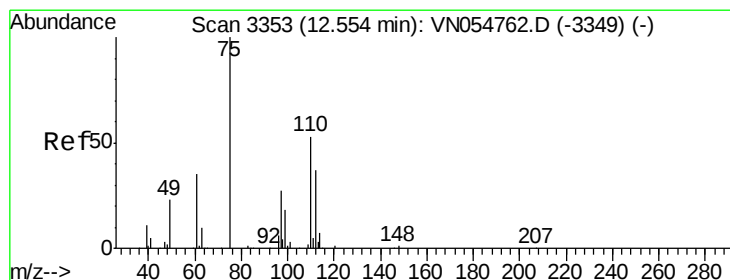
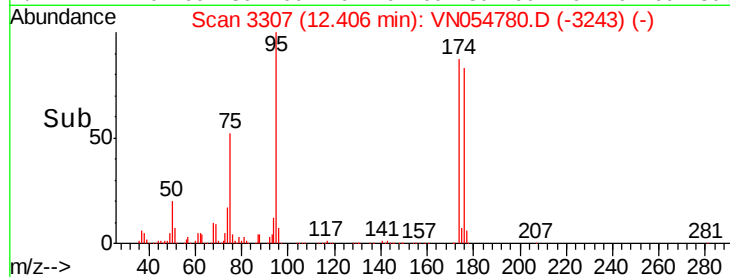
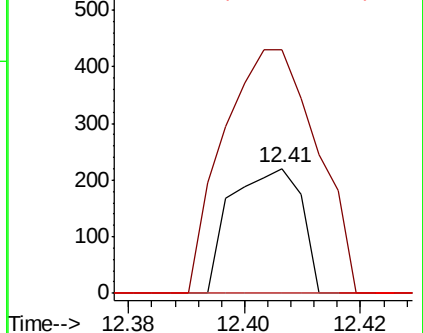
85 0.0 32.2 96.6#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 37.625 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054780.D

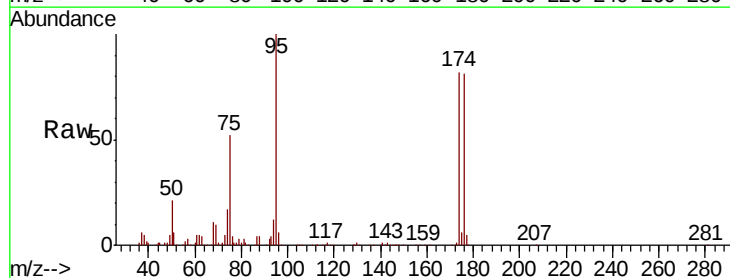
Acq: 29 Mar 2019 19:45

Tgt Ion: 75 Resp: 160596

Ion Ratio Lower Upper

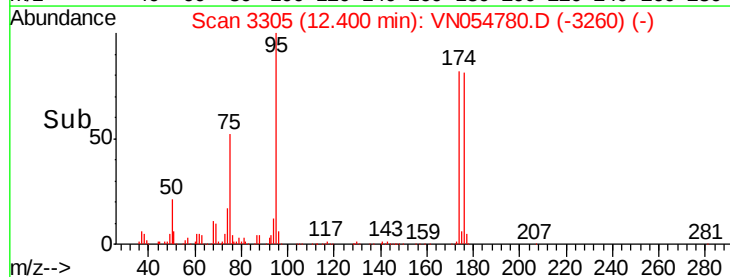
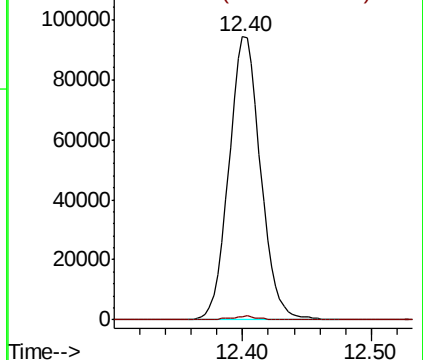
75 100

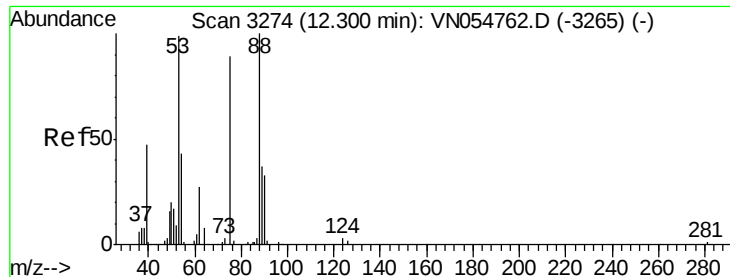
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

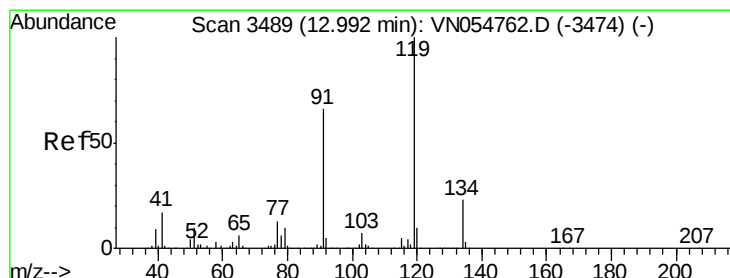
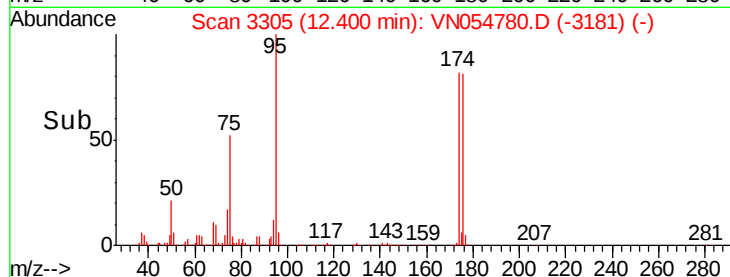
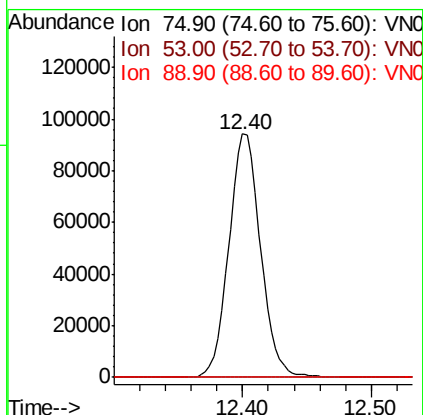
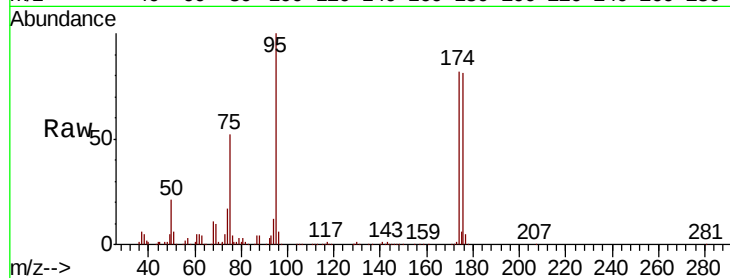




#81
 trans-1,4-Dichloro-2-butene
 Concen: 146.353 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN054780.D
 Acq: 29 Mar 2019 19:45

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 160596
 Ion Ratio Lower Upper
 75 100
 53 0.0 76.2 114.2#
 89 0.0 39.2 58.8#



#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3409
 Delta R.T. -0.26 min
 Lab File: VN054780.D
 Acq: 29 Mar 2019 19:45

Tgt Ion: 119 Resp: 35
 Ion Ratio Lower Upper
 119 100
 91 0.0 30.9 92.8#
 134 0.0 13.2 39.6#

