

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080918\
 Data File : VN050489.D
 Acq On : 9 Aug 2018 16:41
 Operator : MD\SY
 Sample : PB111888ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 10 04:04:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	778025	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1270917	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1095702	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	428472	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	516075	49.65	ug/l	0.00
Spiked Amount			Recovery	=	99.30%	
35) Dibromofluoromethane	7.59	113	474217	46.50	ug/l	0.00
Spiked Amount			Recovery	=	93.00%	
50) Toluene-d8	10.09	98	1722785	44.93	ug/l	0.00
Spiked Amount			Recovery	=	89.86%	
62) 4-Bromofluorobenzene	12.40	95	501442	38.37	ug/l	0.00
Spiked Amount			Recovery	=	76.74%	

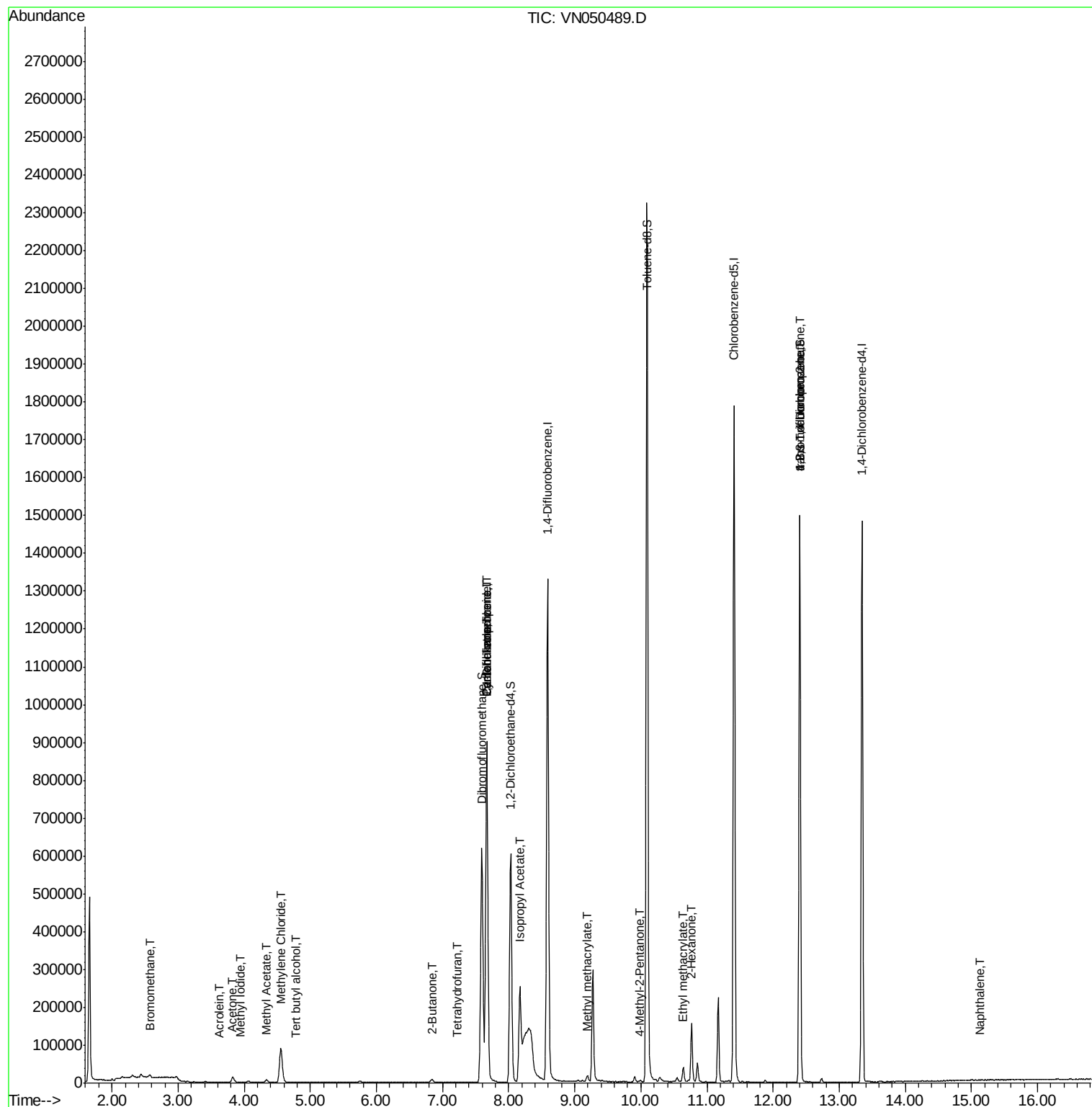
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3040	Below Cal		96
5) Bromomethane	2.57	94	4154	0.93 ug/l		92
10) Methyl Iodide	3.95	142	1397	0.36 ug/l #		50
11) Tert butyl alcohol	4.78	59	218	0.26 ug/l #		72
13) Acrolein	3.62	56	103	15.12 ug/l #		15
16) Acetone	3.83	43	24244	7.47 ug/l		97
18) Methyl Acetate	4.34	43	14190	1.57 ug/l		96
20) Methylene Chloride	4.55	84	72966	6.34 ug/l		96
25) 2-Butanone	6.85	43	3127	0.61 ug/l #		88
29) Tetrahydrofuran	7.22	42	828	0.30 ug/l #		42
31) Cyclohexane	7.67	56	14328	0.34 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	52630	3.77 ug/l #		49
38) Carbon Tetrachloride	7.67	117	68613	4.71 ug/l #		16
43) Isopropyl Acetate	8.17	43	323138	18.61 ug/l		97
48) Methyl methacrylate	9.18	41	8520	0.98 ug/l #		17
51) 4-Methyl-2-Pentanone	9.99	43	3131	0.25 ug/l #		67
56) Ethyl methacrylate	10.64	69	700	1.76 ug/l #		1
59) 2-Hexanone	10.77	43	21965	2.52 ug/l #		58
76) 1,2,3-Trichloropropane	12.40	75	241482	31.14 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	241482	109.40 ug/l #		13
95) Naphthalene	15.13	128	446	3.64 ug/l #		69

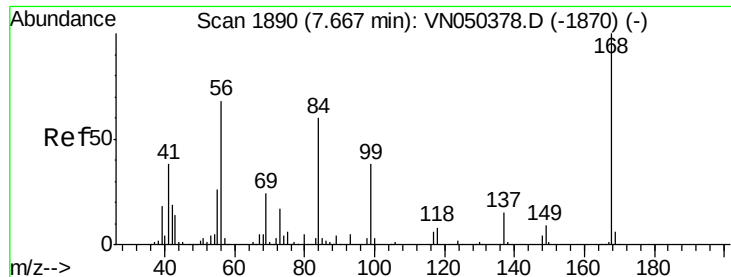
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Aug 07 05:22:15 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050489.D

Acq: 9 Aug 2018 16:41

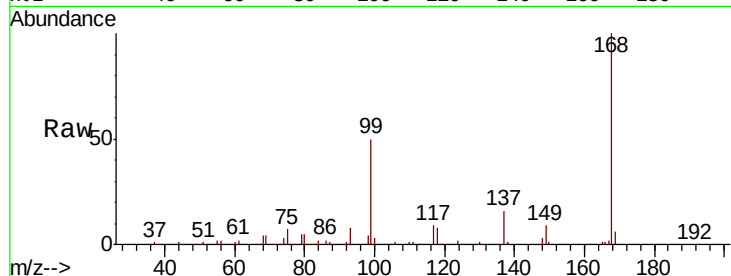
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 778025

Ion Ratio Lower Upper

168 100

99 50.1 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

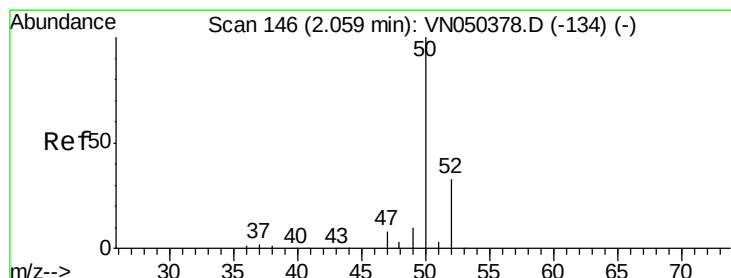
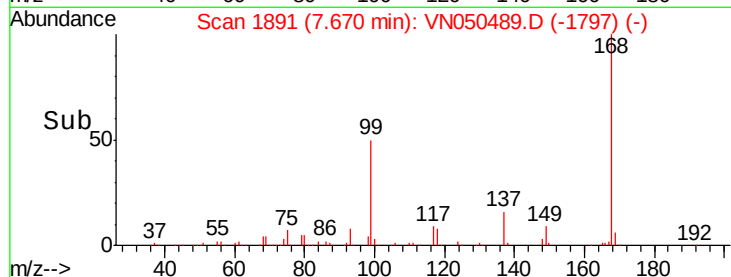
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050489.D

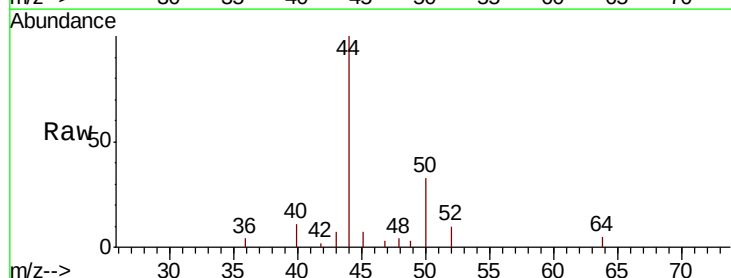
Acq: 9 Aug 2018 16:41

Tgt Ion: 50 Resp: 3040

Ion Ratio Lower Upper

50 100

52 30.1 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2500

2000

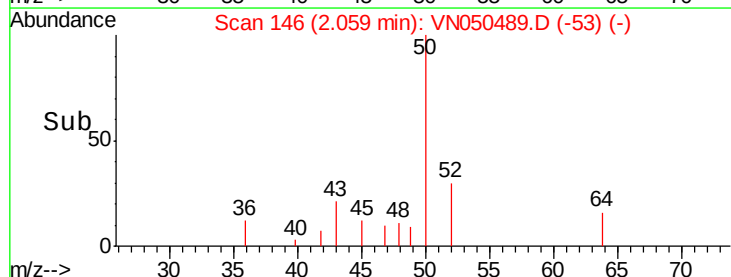
1500

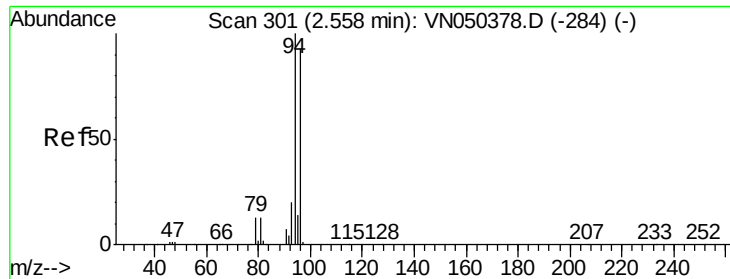
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.93 ug/l

RT: 2.57 min Scan# 306

Delta R.T. 0.02 min

Lab File: VN050489.D

Acq: 9 Aug 2018 16:41

Instrument :

MSVOA_N

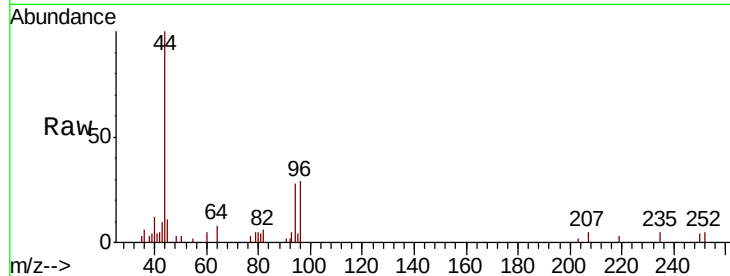
ClientSampled :

Tot Ion: 94 Resp: 4154

Ion Ratio Lower Upper

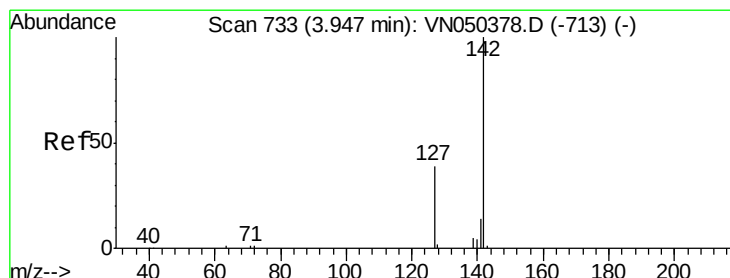
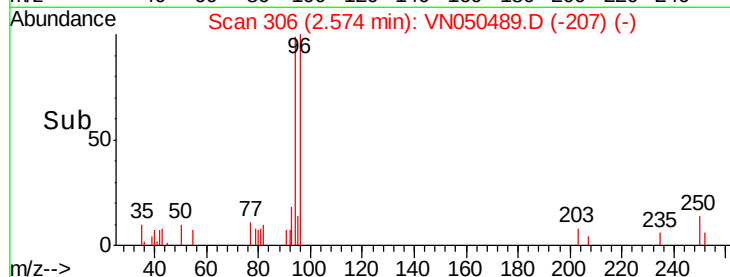
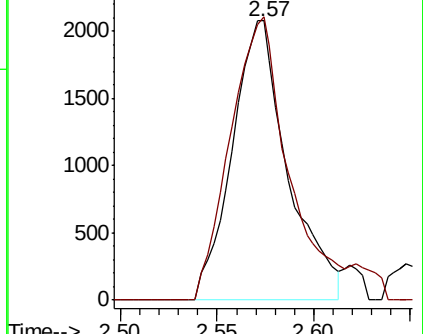
94 100

96 101.3 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#10

Methyl Iodide

Concen: 0.36 ug/l

RT: 3.95 min Scan# 733

Delta R.T. 0.00 min

Lab File: VN050489.D

Acq: 9 Aug 2018 16:41

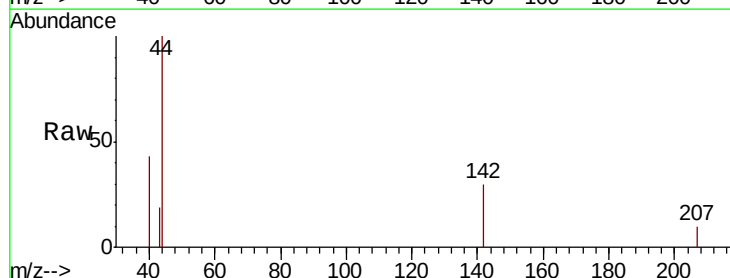
Tgt Ion: 142 Resp: 1397

Ion Ratio Lower Upper

142 100

127 7.2 33.4 50.2#

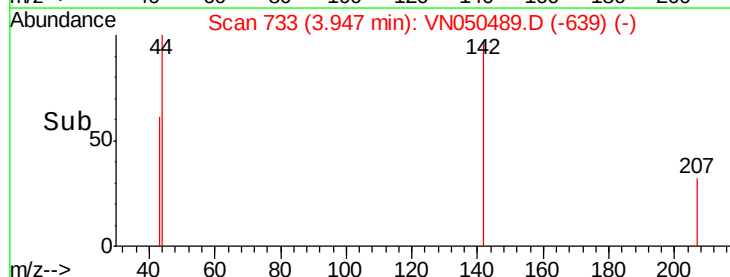
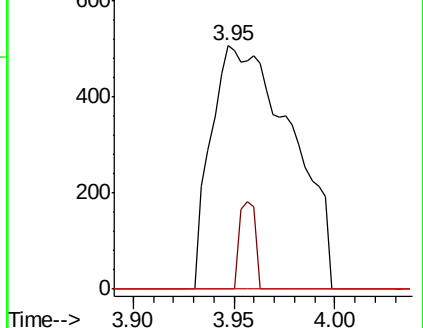
141 0.0 11.6 17.4#

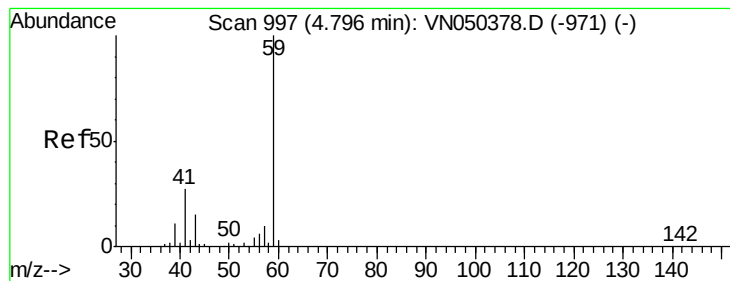


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#11

Tert butyl alcohol

Concen: 0.26 ug/l

RT: 4.78 min Scan# 991

Delta R.T. -0.02 min

Lab File: VN050489.D

Acq: 9 Aug 2018 16:41

Instrument :

MSVOA_N

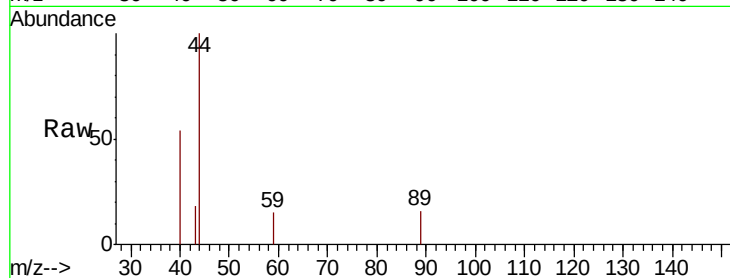
ClientSampled :

Tot Ion: 59 Resp: 218

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.78

200

150

100

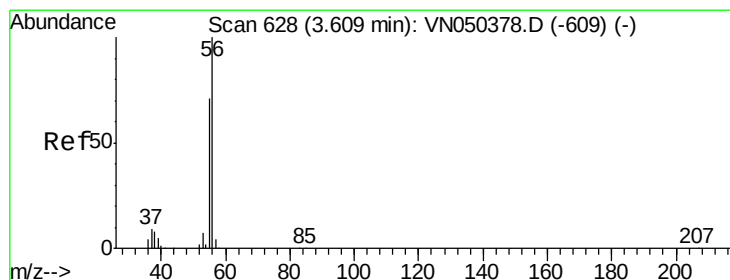
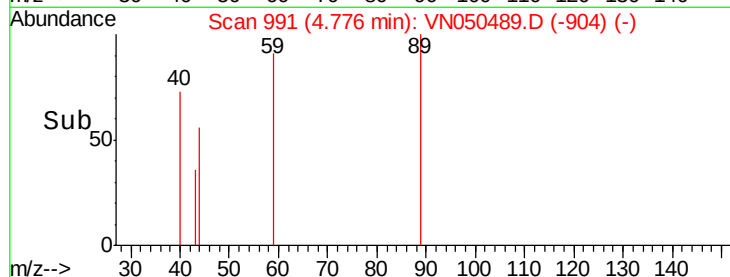
50

0

4.76

4.78

Time-->



#13

Acrolein

Concen: 15.12 ug/l

RT: 3.62 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN050489.D

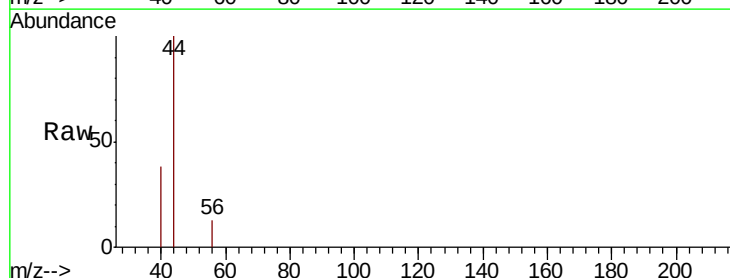
Acq: 9 Aug 2018 16:41

Tgt Ion: 56 Resp: 103

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

250

200

150

100

50

0

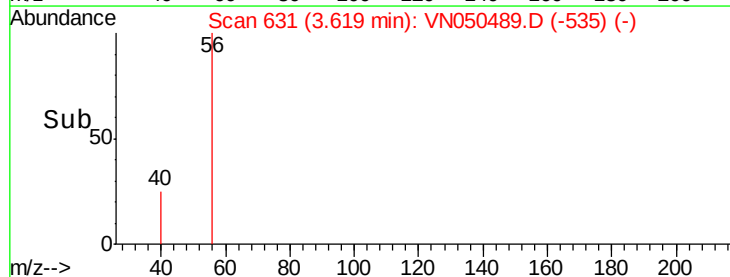
3.60

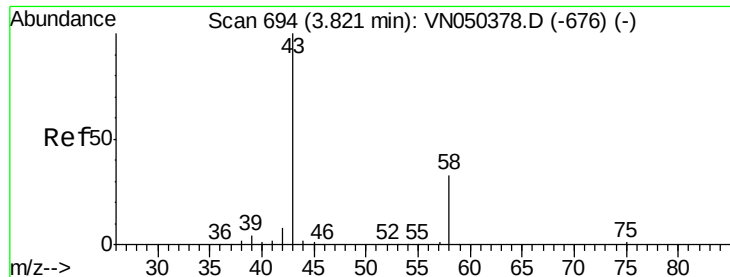
3.61

3.62

3.63

Time-->





#16

Acetone

Concen: 7.47 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN050489.D

Acq: 9 Aug 2018 16:41

Instrument :

MSVOA_N

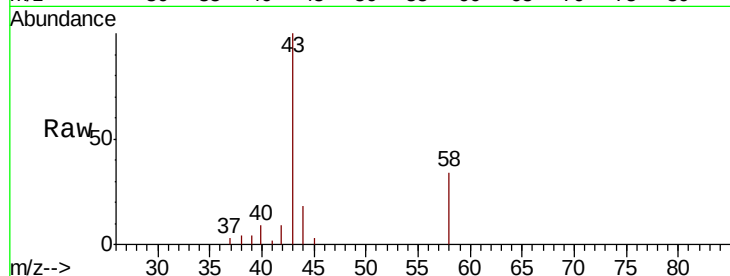
ClientSampled :

Tot Ion: 43 Resp: 24244

Ion Ratio Lower Upper

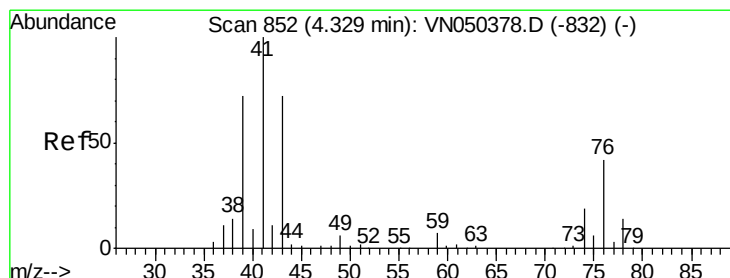
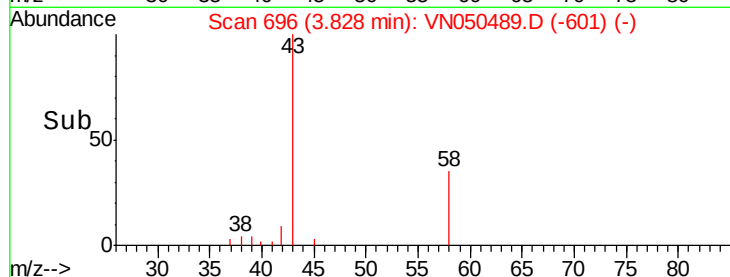
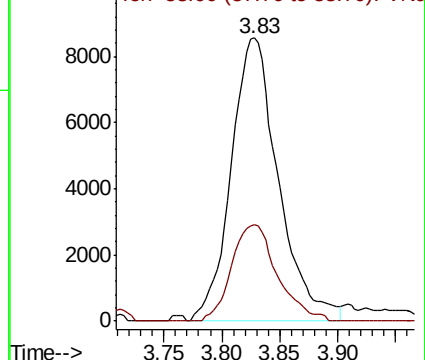
43 100

58 34.1 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 1.57 ug/l

RT: 4.34 min Scan# 856

Delta R.T. 0.01 min

Lab File: VN050489.D

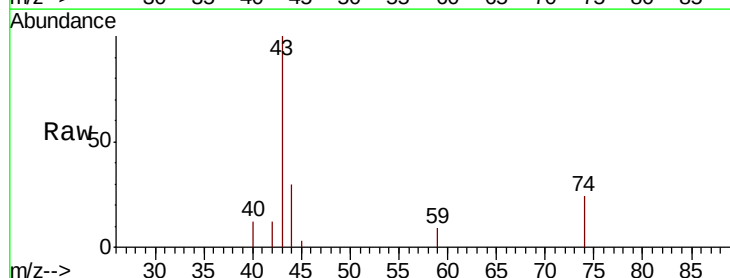
Acq: 9 Aug 2018 16:41

Tgt Ion: 43 Resp: 14190

Ion Ratio Lower Upper

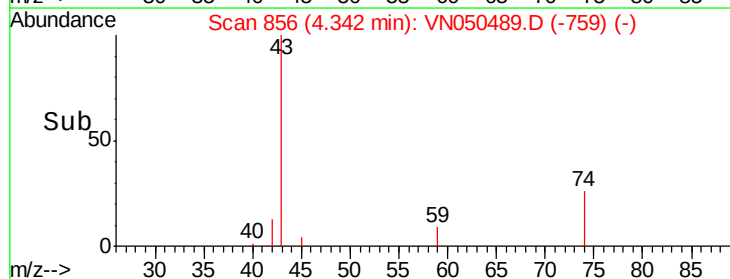
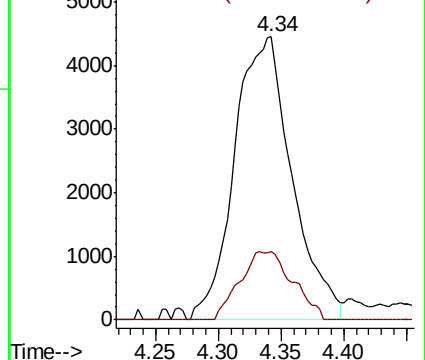
43 100

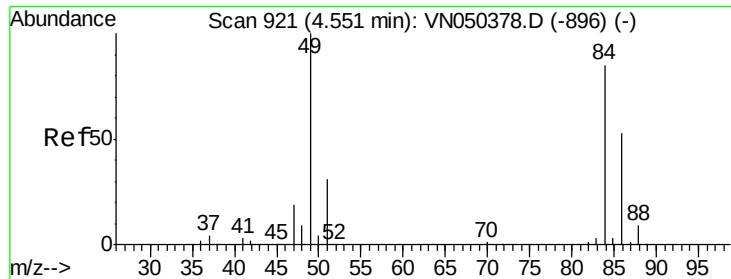
74 22.1 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

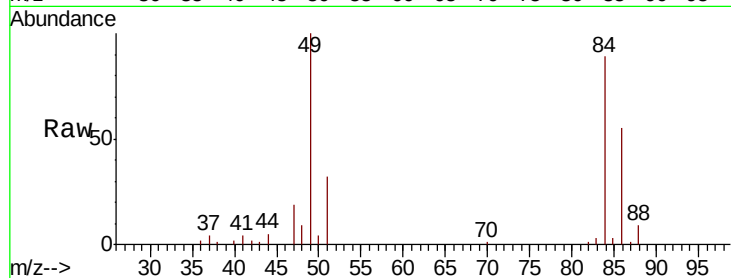




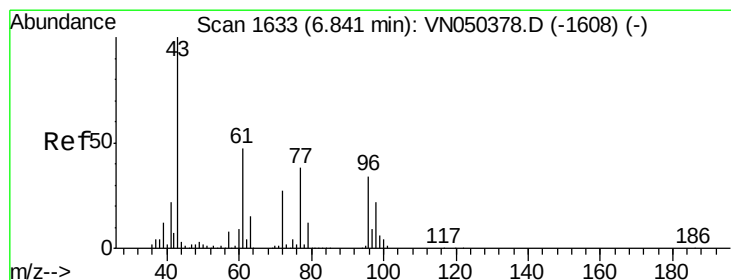
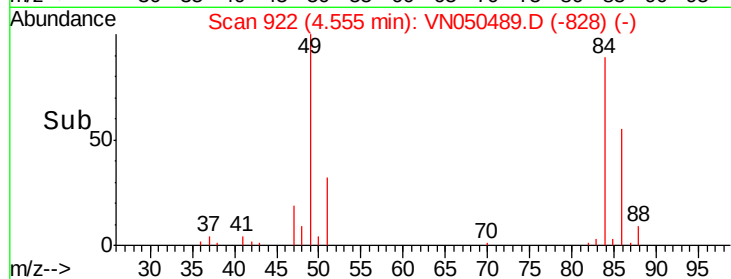
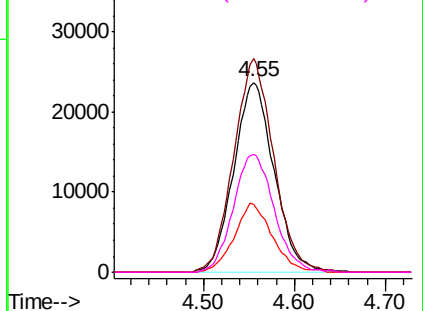
#20
Methylene Chloride
Concen: 6.34 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050489.D
Acq: 9 Aug 2018 16:41

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 84 Resp: 72966
Ion Ratio Lower Upper
84 100
49 112.5 94.8 142.2
51 36.1 28.3 42.5
86 61.8 51.0 76.6

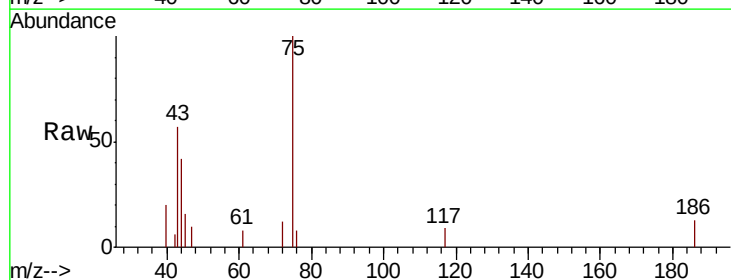


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

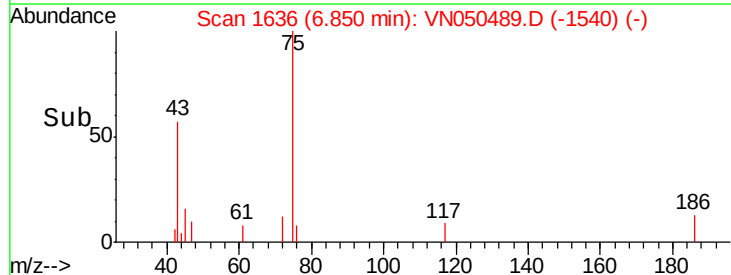
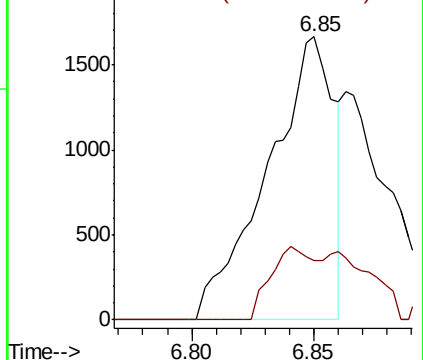


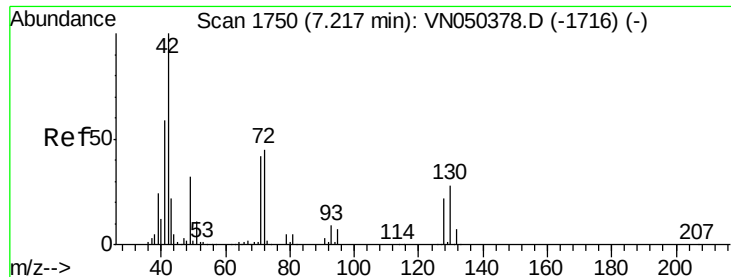
#25
2-Butanone
Concen: 0.61 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050489.D
Acq: 9 Aug 2018 16:41

Tgt Ion: 43 Resp: 3127
Ion Ratio Lower Upper
43 100
72 20.9 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

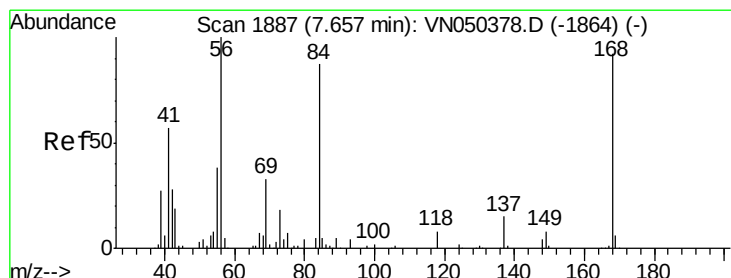
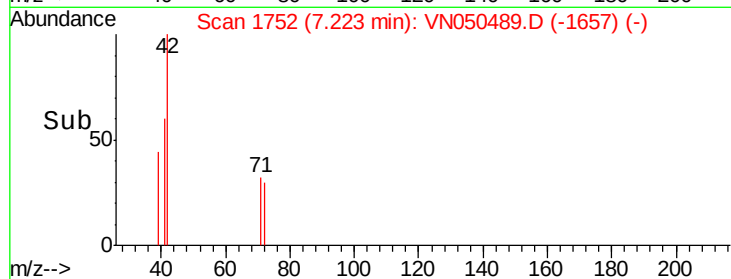
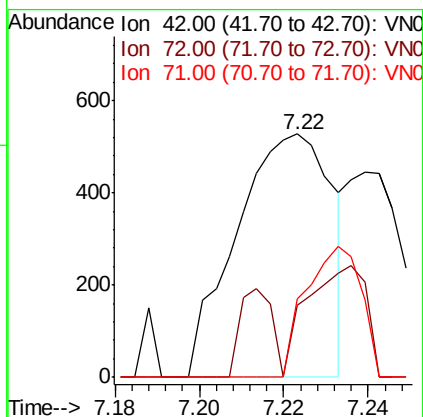
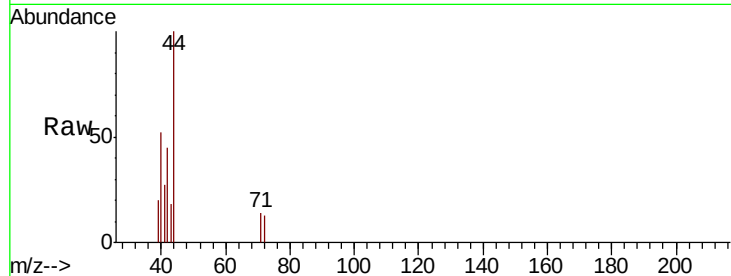




#29
Tetrahydrofuran
Concen: 0.30 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.01 min
Lab File: VN050489.D
Acq: 9 Aug 2018 16:41

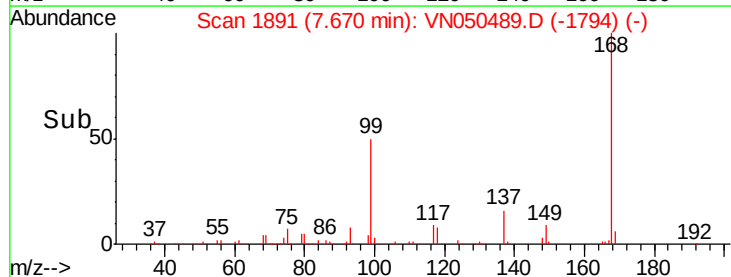
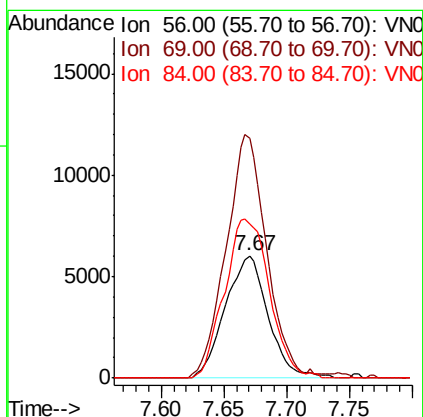
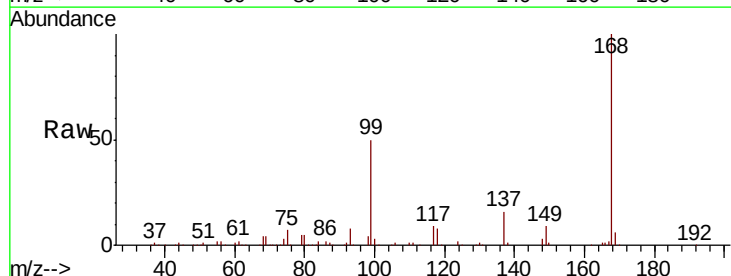
Instrument :
MSVOA_N
ClientSampleId :

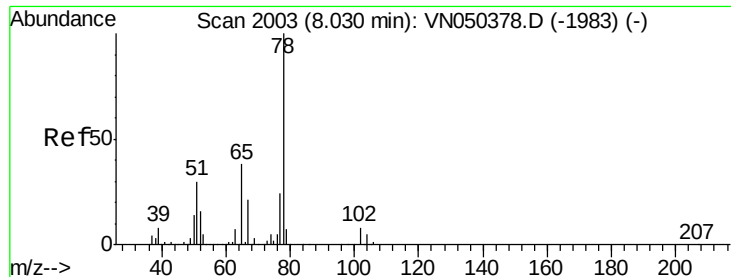
Tot Ion: 42 Resp: 828
Ion Ratio Lower Upper
42 100
72 12.1 35.9 53.9#
71 0.0 33.7 50.5#



#31
Cyclohexane
Concen: 0.34 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.01 min
Lab File: VN050489.D
Acq: 9 Aug 2018 16:41

Tgt Ion: 56 Resp: 14328
Ion Ratio Lower Upper
56 100
69 196.1 26.2 39.4#
84 125.5 67.4 101.0#

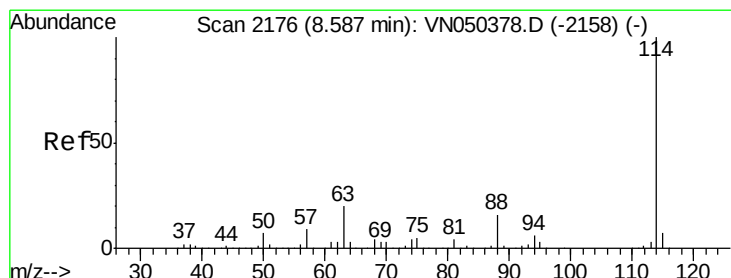
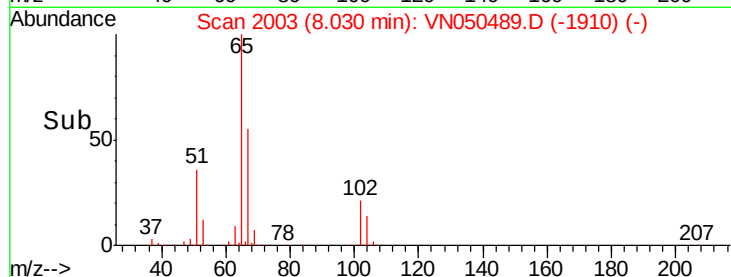
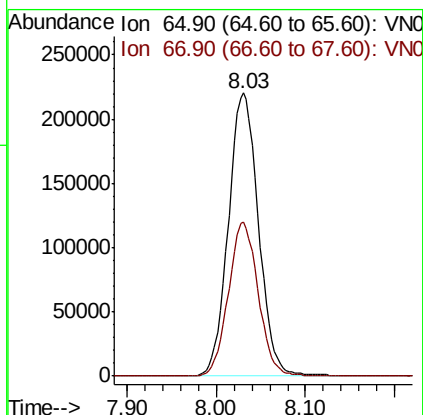
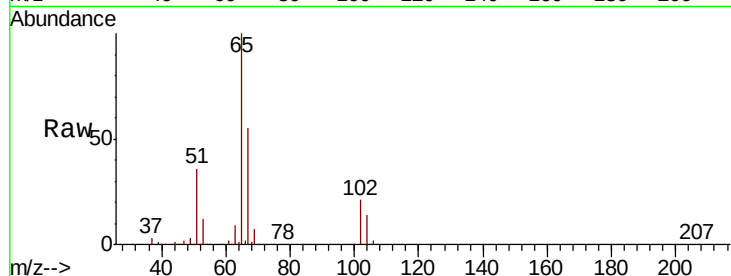




#33
 1,2-Dichloroethane-d4
 Concen: 49.65 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN050489.D
 Acq: 9 Aug 2018 16:41

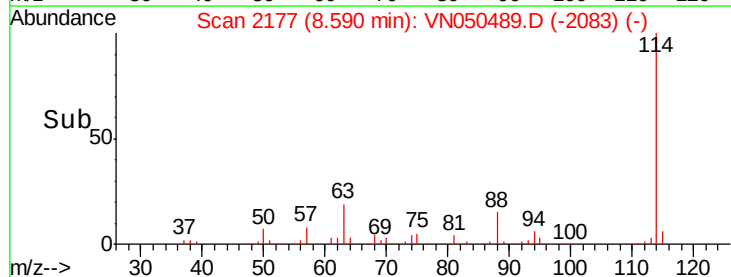
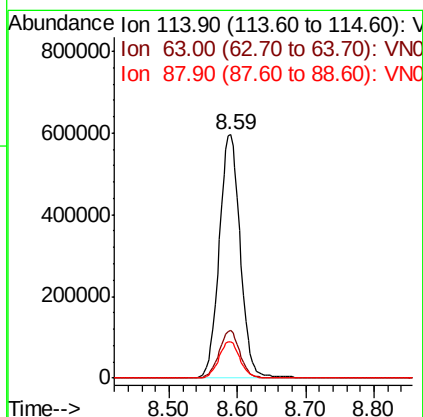
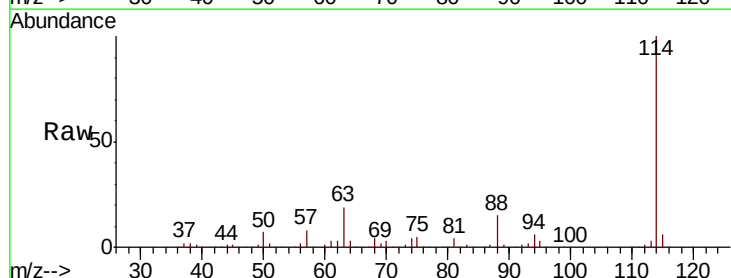
Instrument :
 MSVOA_N
 ClientSampleId :

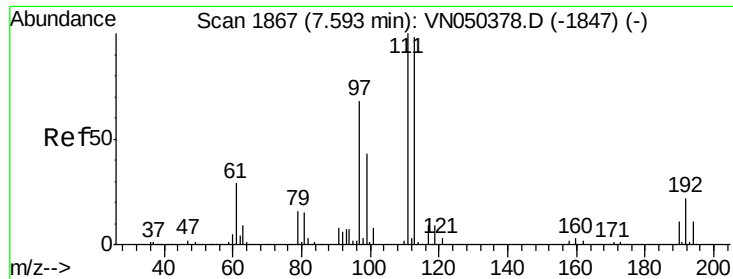
Tot Ion: 65 Resp: 516075
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050489.D
 Acq: 9 Aug 2018 16:41

Tgt Ion: 114 Resp: 1270917
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 40.0
 88 15.0 0.0 31.2

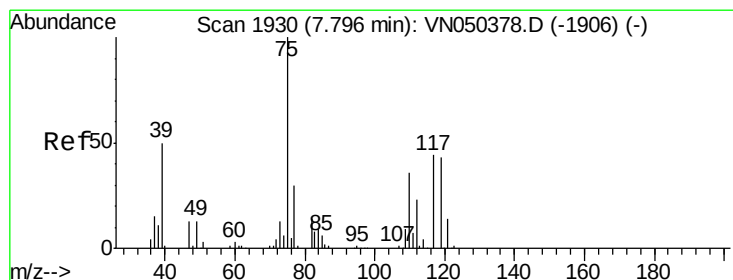
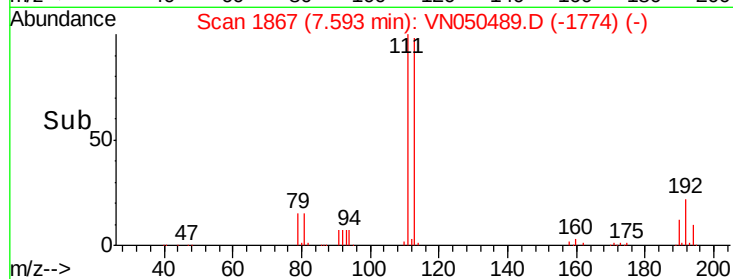
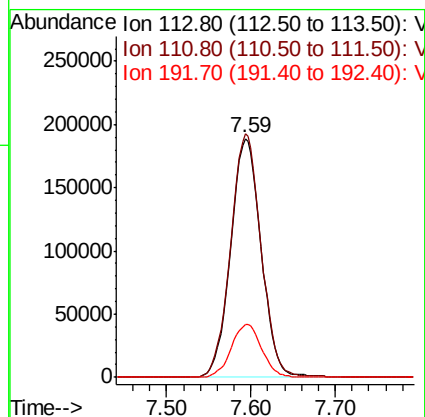
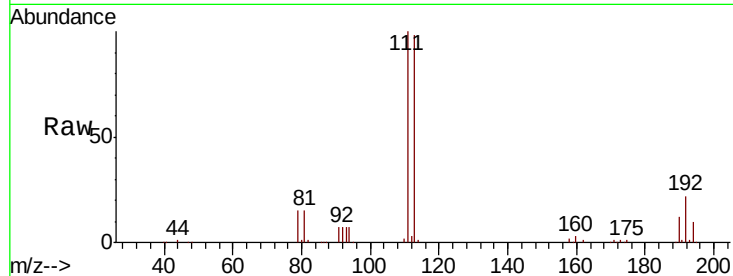




#35
 Dibromofluoromethane
 Concen: 46.50 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050489.D
 Acq: 9 Aug 2018 16:41

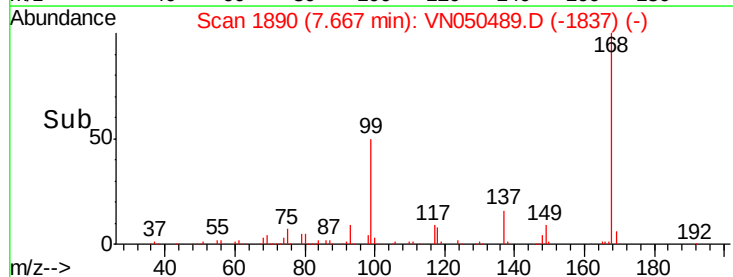
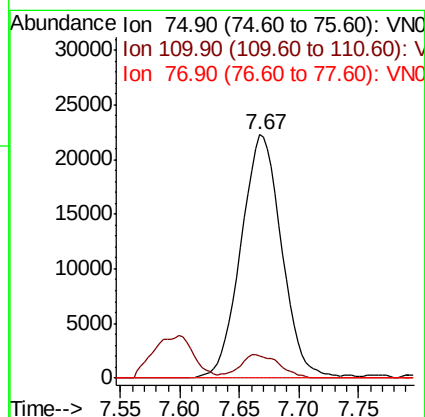
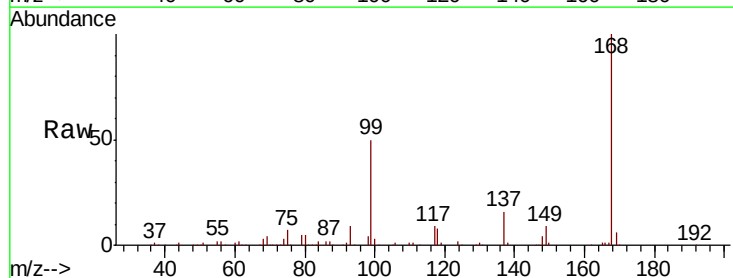
Instrument :
 MSVOA_N
 ClientSampled :

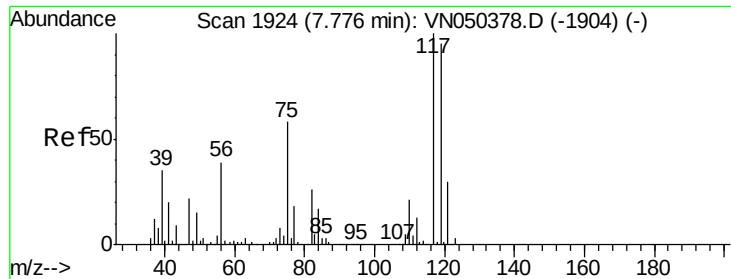
Tot Ion:113 Resp: 474217
 Ion Ratio Lower Upper
 113 100
 111 102.0 80.7 121.1
 192 22.3 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.77 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050489.D
 Acq: 9 Aug 2018 16:41

Tgt Ion: 75 Resp: 52630
 Ion Ratio Lower Upper
 75 100
 110 9.4 18.4 55.2#
 77 0.0 25.3 37.9#

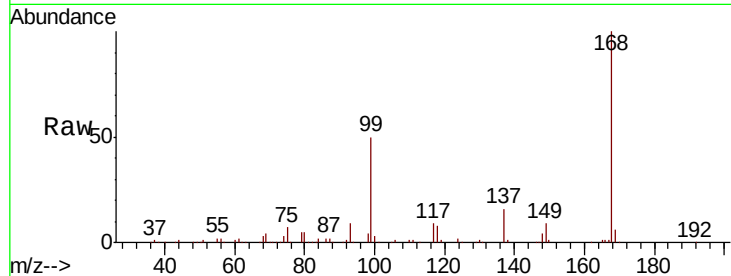




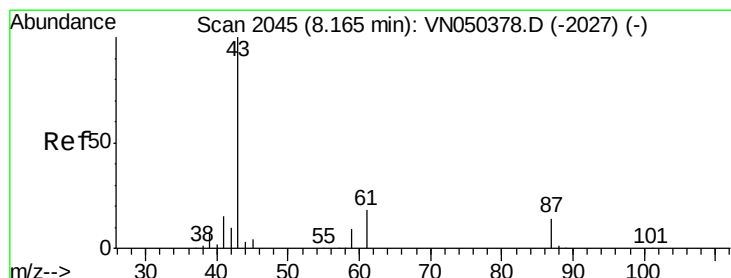
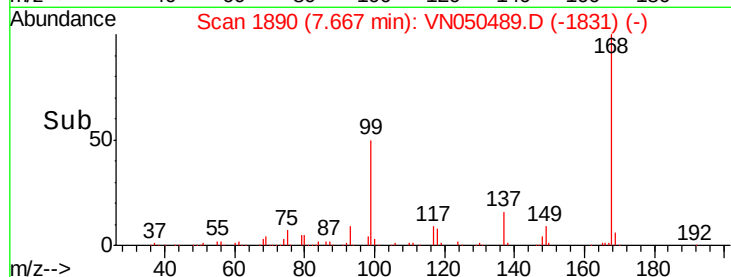
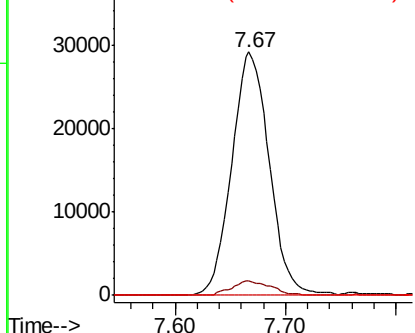
#38
Carbon Tetrachloride
Concen: 4.71 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050489.D
Acq: 9 Aug 2018 16:41

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 68613
Ion Ratio Lower Upper
117 100
119 6.0 77.4 116.0#
121 0.0 23.9 35.9#

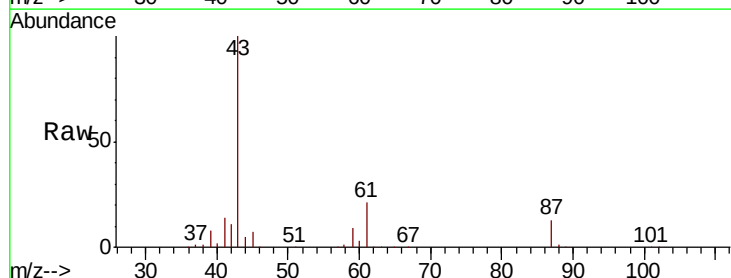


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

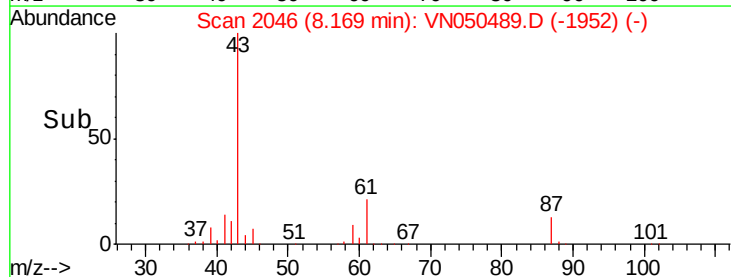
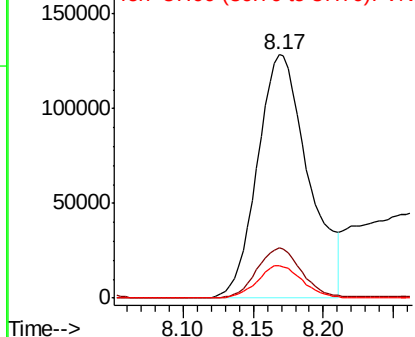


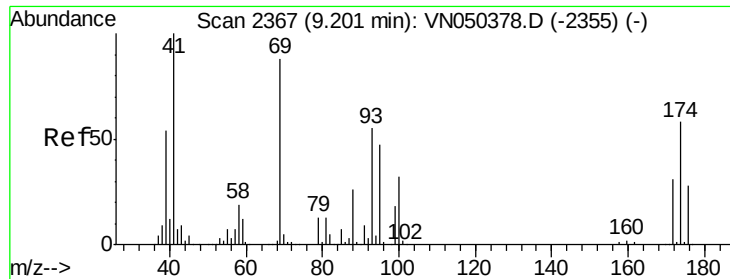
#43
Isopropyl Acetate
Concen: 18.61 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050489.D
Acq: 9 Aug 2018 16:41

Tgt Ion: 43 Resp: 323138
Ion Ratio Lower Upper
43 100
61 18.2 15.8 23.6
87 11.8 10.3 15.5



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

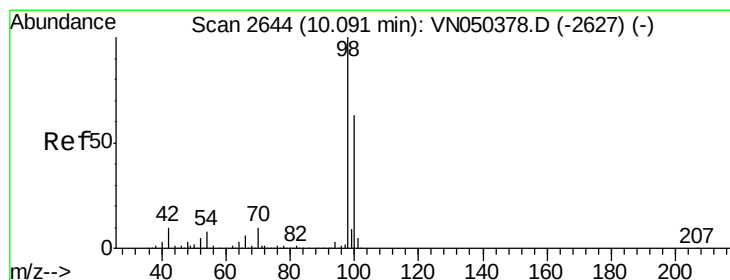
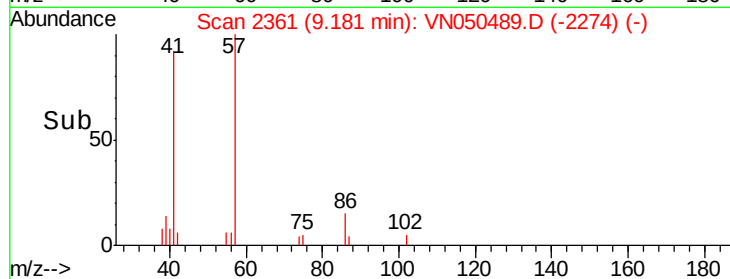
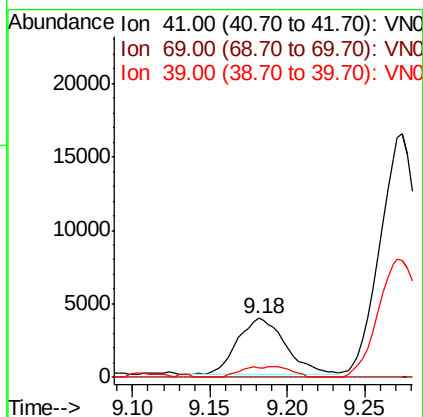
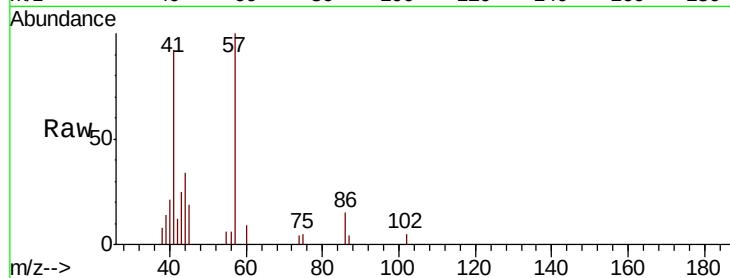




#48
Methvl methacrylate
Concen: 0.98 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN050489.D
Acq: 9 Aug 2018 16:41

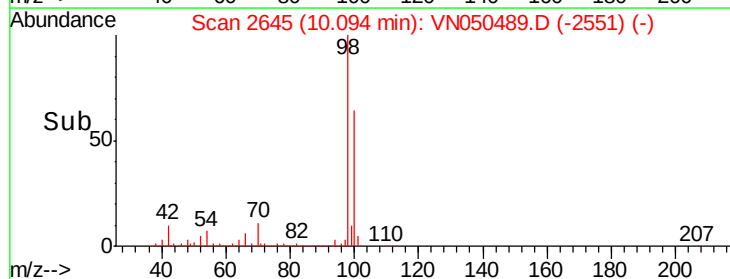
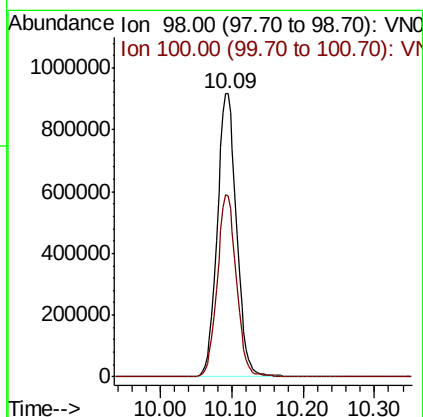
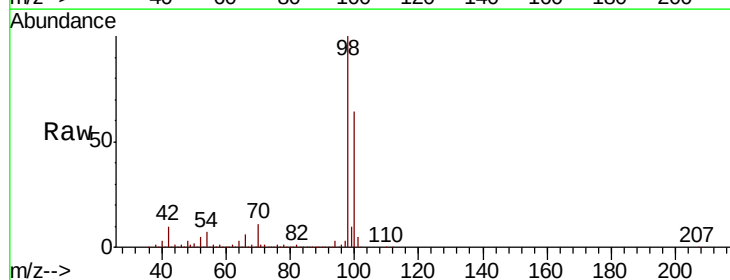
Instrument :
MSVOA_N
ClientSampled :

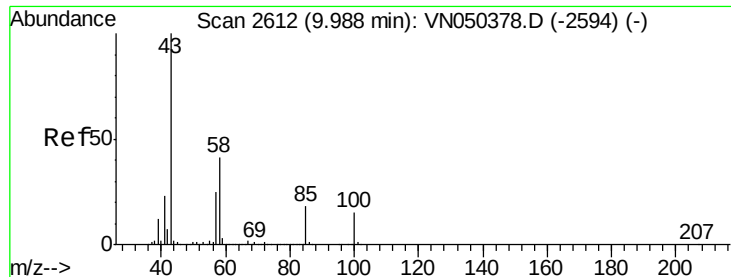
Tot Ion: 41 Resp: 8520
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 7.8 43.9 65.9#



#50
Toluene-d8
Concen: 44.93 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050489.D
Acq: 9 Aug 2018 16:41

Tgt Ion: 98 Resp: 1722785
Ion Ratio Lower Upper
98 100
100 63.7 50.7 76.1

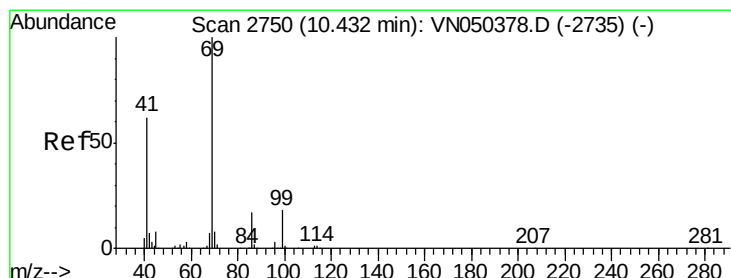
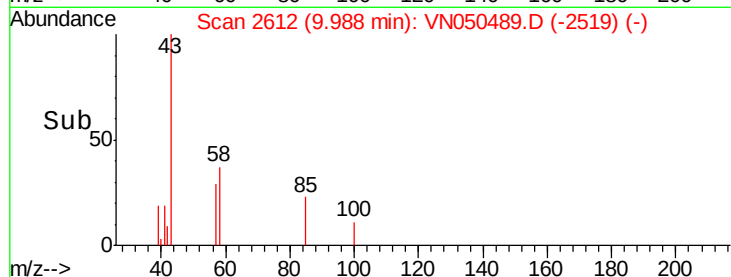
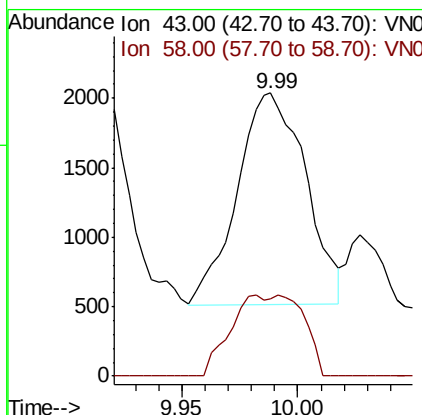
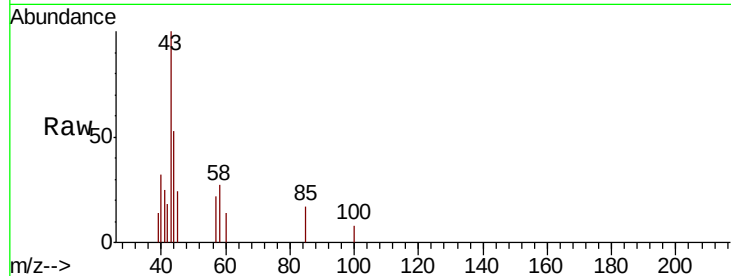




#51
 4-Methyl-2-Pentanone
 Concen: 0.25 ug/l
 RT: 9.99 min Scan# 2612
 Delta R.T. -0.00 min
 Lab File: VN050489.D
 Acq: 9 Aug 2018 16:41

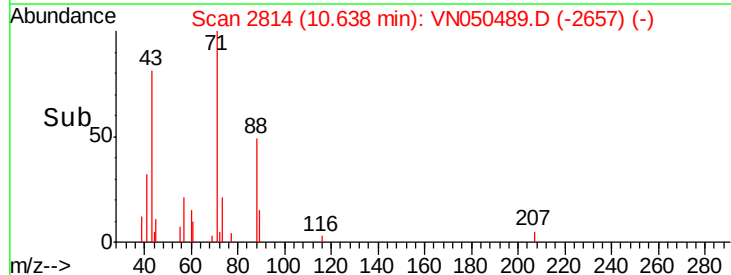
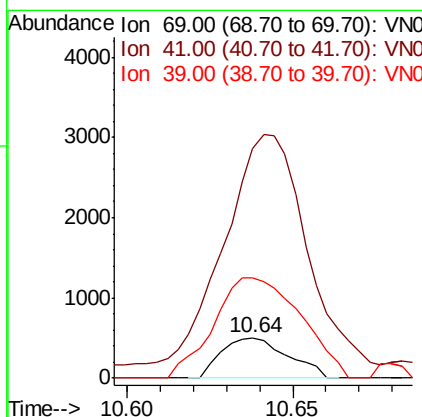
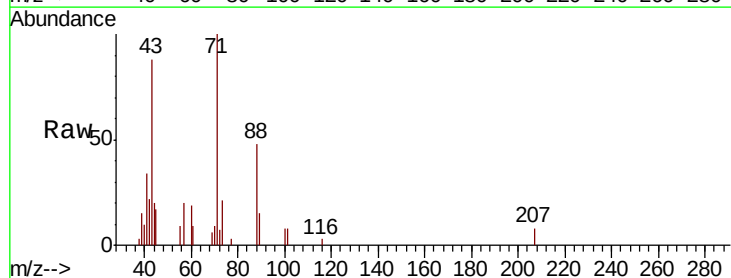
Instrument :
 MSVOA_N
 ClientSampleId :

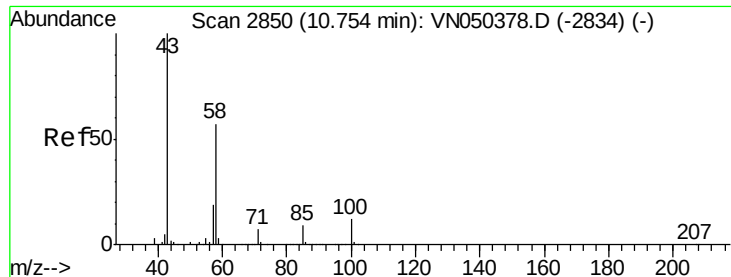
Tot Ion: 43 Resp: 3131
 Ion Ratio Lower Upper
 43 100
 58 19.8 31.9 47.9#



#56
 Ethyl methacrylate
 Concen: 1.76 ug/l
 RT: 10.64 min Scan# 2814
 Delta R.T. 0.21 min
 Lab File: VN050489.D
 Acq: 9 Aug 2018 16:41

Tgt Ion: 69 Resp: 700
 Ion Ratio Lower Upper
 69 100
 41 718.0 51.0 76.4#
 39 325.6 26.6 40.0#

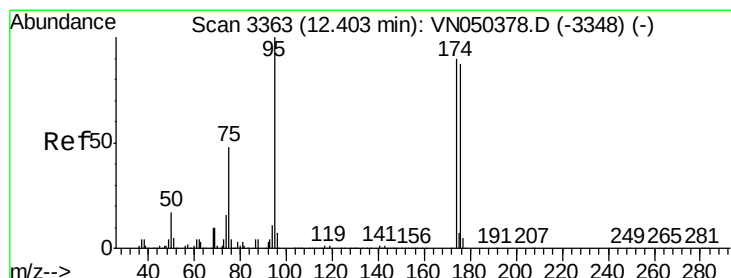
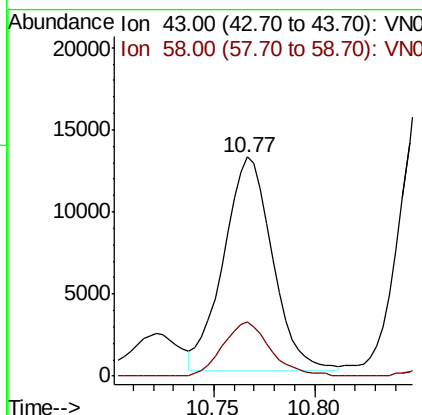
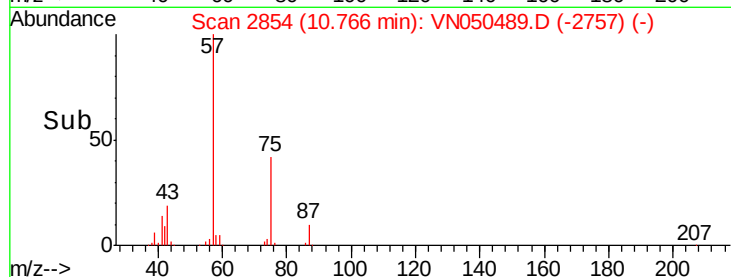
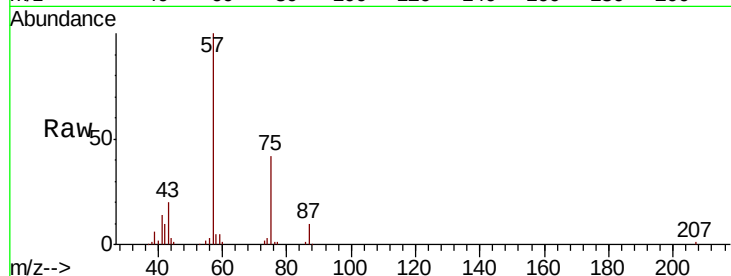




#59
2-Hexanone
Concen: 2.52 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN050489.D
Acq: 9 Aug 2018 16:41

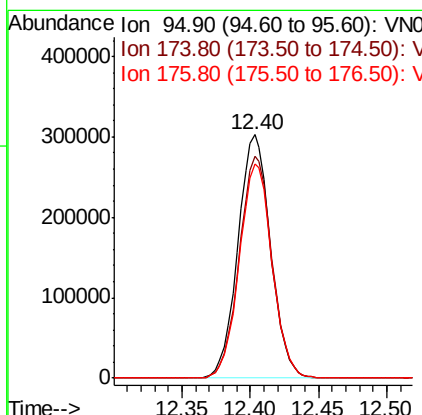
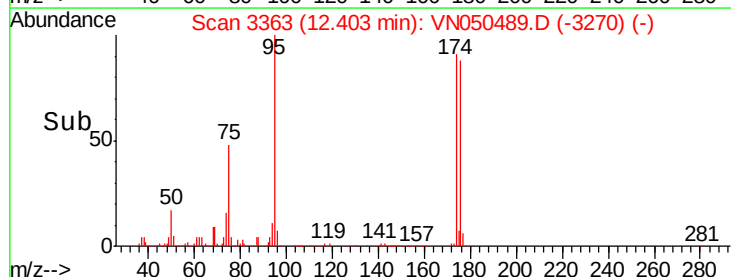
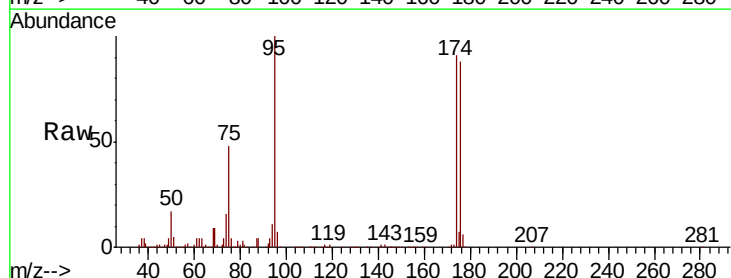
Instrument :
MSVOA_N
ClientSampled :

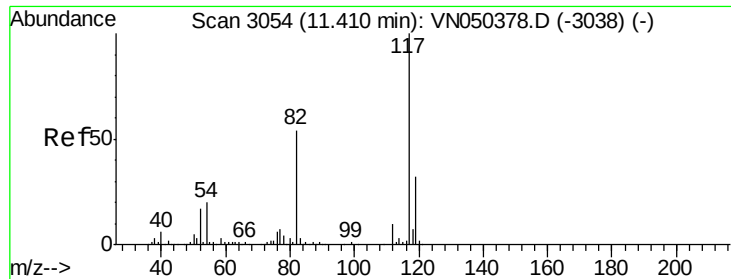
Tot Ion: 43 Resp: 21965
Ion Ratio Lower Upper
43 100
58 24.9 27.6 82.7#



#62
4-Bromofluorobenzene
Concen: 38.37 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN050489.D
Acq: 9 Aug 2018 16:41

Tgt Ion: 95 Resp: 501442
Ion Ratio Lower Upper
95 100
174 91.6 0.0 178.2
176 88.4 0.0 173.4

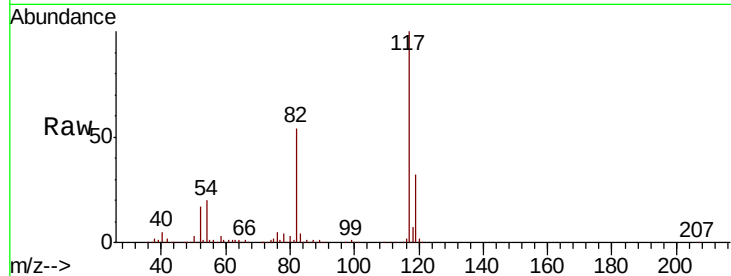




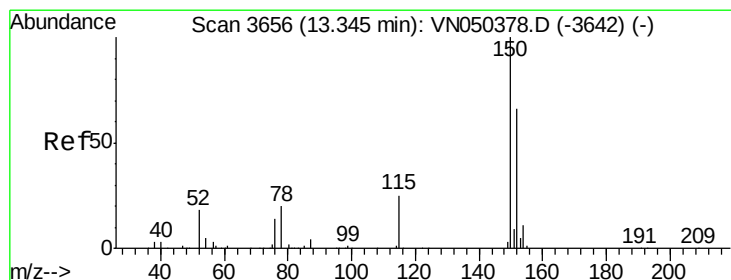
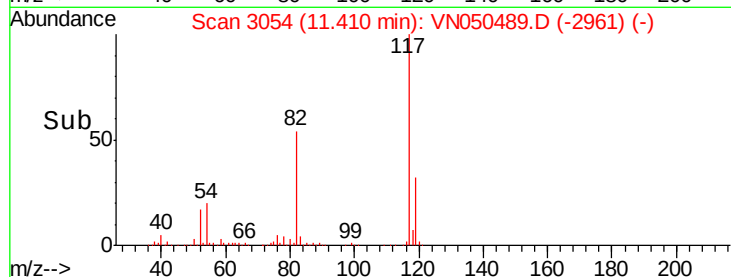
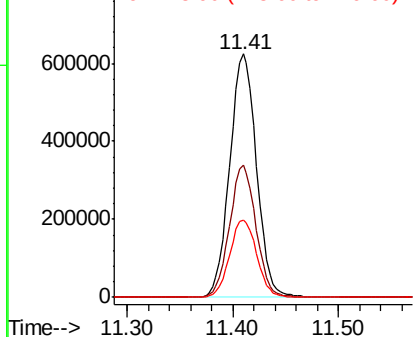
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050489.D
Acq: 9 Aug 2018 16:41

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1095702
Ion Ratio Lower Upper
117 100
82 54.2 43.7 65.5
119 31.8 26.1 39.1

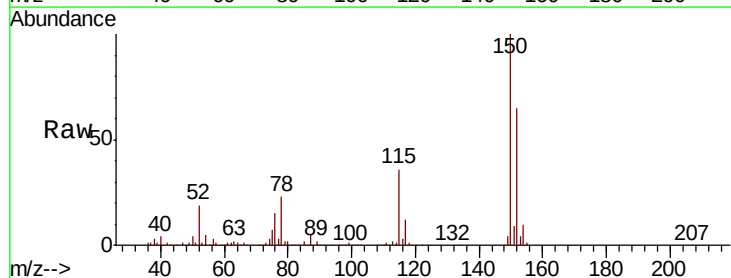


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

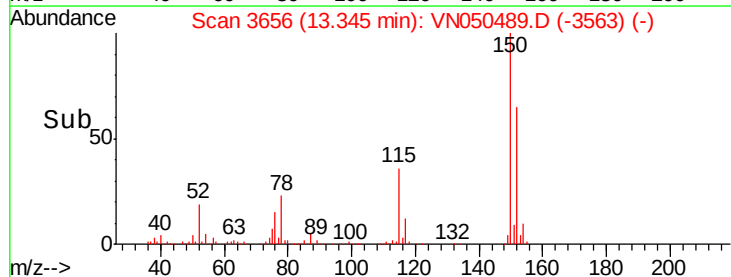
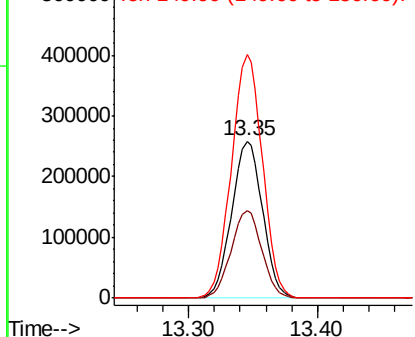


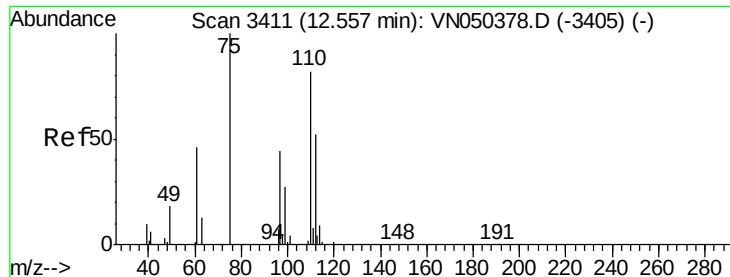
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. -0.00 min
Lab File: VN050489.D
Acq: 9 Aug 2018 16:41

Tgt Ion:152 Resp: 428472
Ion Ratio Lower Upper
152 100
115 55.5 27.8 83.3
150 156.0 0.0 348.6



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





#76

1,2,3-Trichloropropane

Concen: 31.14 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050489.D

Acq: 9 Aug 2018 16:41

Instrument :

MSVOA_N

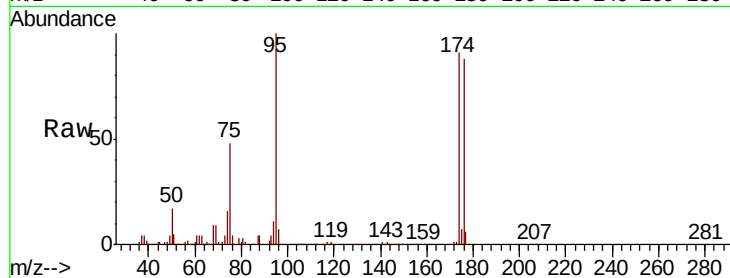
ClientSampled :

Tot Ion: 75 Resp: 241482

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

150000

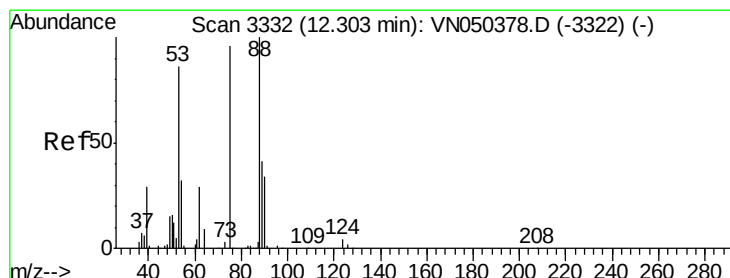
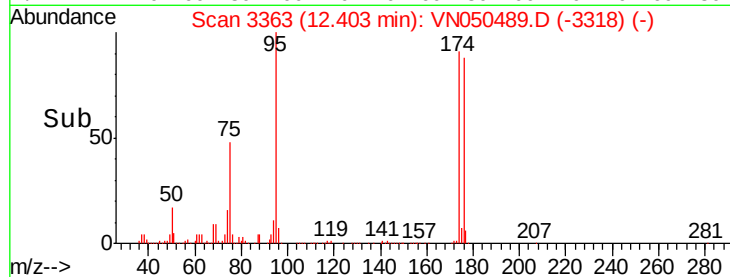
12.40

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 109.40 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050489.D

Acq: 9 Aug 2018 16:41

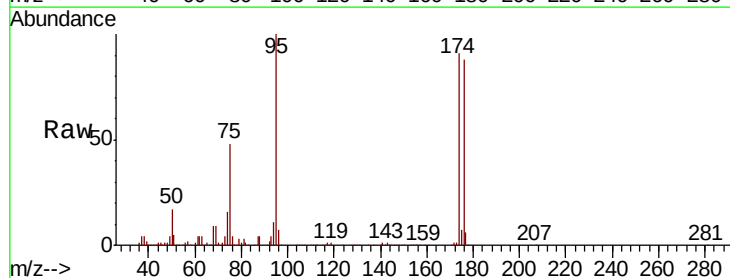
Tgt Ion: 75 Resp: 241482

Ion Ratio Lower Upper

75 100

53 0.1 73.5 110.3#

89 0.0 36.0 54.0#



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

200000

150000

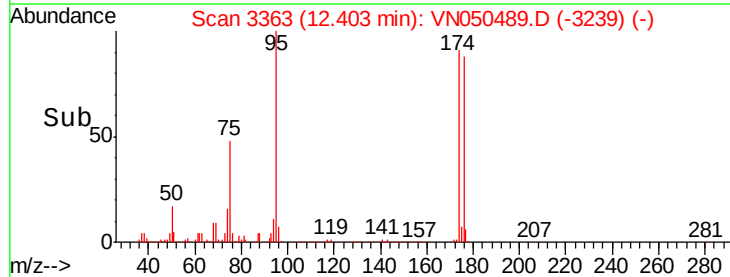
12.40

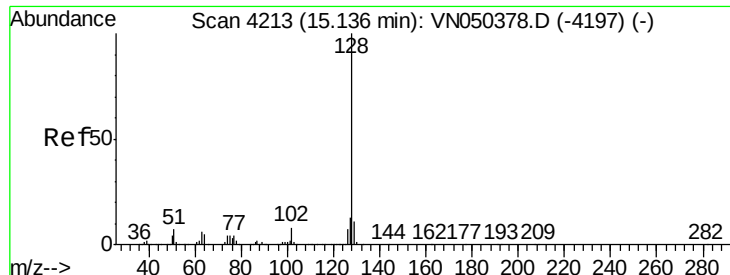
100000

50000

0

Time-->

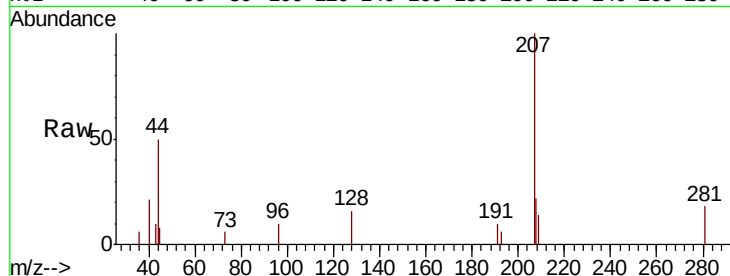




#95
 Naphthalene
 Concen: 3.64 ug/l
 RT: 15.13 min Scan# 4212
 Delta R.T. -0.00 min
 Lab File: VN050489.D
 Acq: 9 Aug 2018 16:41

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.8	13.2#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

