

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081318\
 Data File : VN050568.D
 Acq On : 13 Aug 2018 15:08
 Operator : MD\SY
 Sample : PB111961ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111961ZHE#01

Quant Time: Aug 14 01:00:15 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	632263	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1018431	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	886598	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	321243	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	437052	51.74	ug/l	0.00
Spiked Amount			Recovery	=	103.48%	
35) Dibromofluoromethane	7.59	113	401065	49.08	ug/l	0.00
Spiked Amount			Recovery	=	98.16%	
50) Toluene-d8	10.09	98	1420060	46.22	ug/l	0.00
Spiked Amount			Recovery	=	92.44%	
62) 4-Bromofluorobenzene	12.40	95	396753	37.89	ug/l	0.00
Spiked Amount			Recovery	=	75.78%	

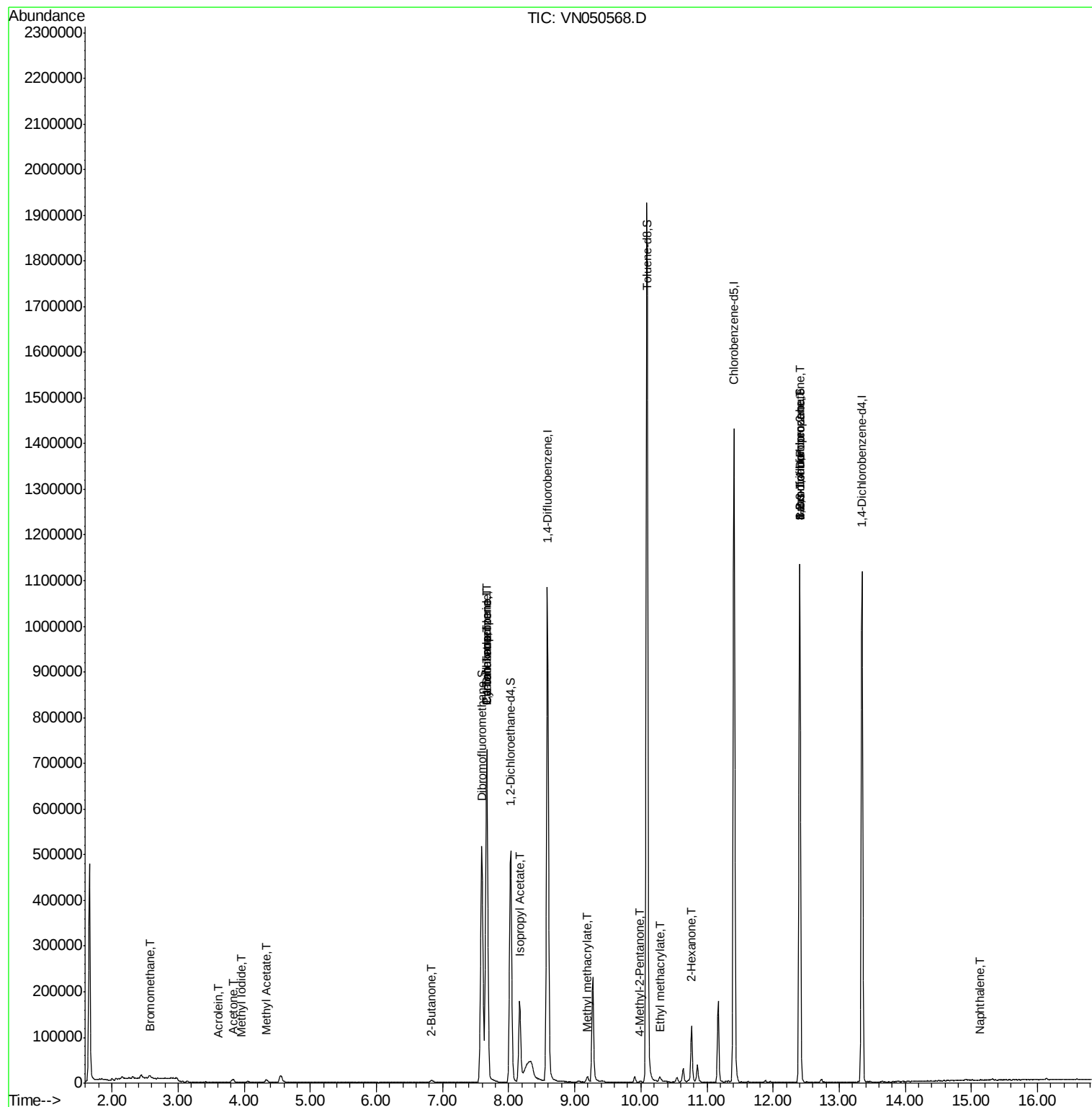
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2843	Below Cal		99
5) Bromomethane	2.57	94	4409	1.17 ug/l		94
10) Methyl Iodide	3.96	142	1042	0.33 ug/l #		68
13) Acrolein	3.61	56	67	15.10 ug/l #		15
16) Acetone	3.82	43	12447	4.59 ug/l		99
18) Methyl Acetate	4.33	43	11179	1.52 ug/l		95
20) Methylene Chloride	4.55	84	11629	Below Cal		93
25) 2-Butanone	6.84	43	1210	0.29 ug/l		96
31) Cyclohexane	7.67	56	11339	0.31 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	44736	4.00 ug/l #		47
38) Carbon Tetrachloride	7.67	117	56926	4.88 ug/l #		17
43) Isopropyl Acetate	8.17	43	210472	15.13 ug/l		99
48) Methyl methacrylate	9.18	41	6791	0.97 ug/l #		22
51) 4-Methyl-2-Pentanone	9.99	43	2476	0.25 ug/l #		58
56) Ethyl methacrylate	10.29	69	102	1.72 ug/l #		1
59) 2-Hexanone	10.77	43	17645	2.52 ug/l #		60
71) Bromoform	12.40	173	2562	0.43 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	188399	32.40 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	188399	113.84 ug/l #		13
94) Hexachlorobutadiene	15.01	225	97	Below Cal		79
95) Naphthalene	15.14	128	2074	3.74 ug/l #		80

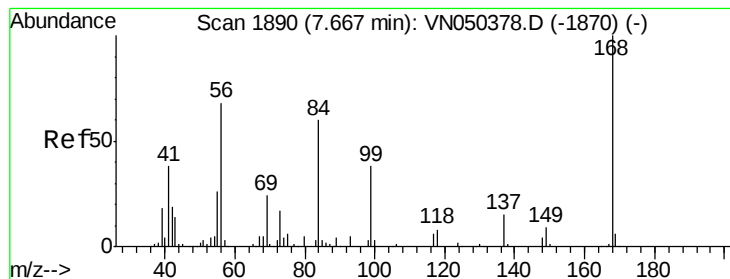
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VN050568.D

Acq: 13 Aug 2018 15:08

Instrument :

MSVOA_N

ClientSampleId :

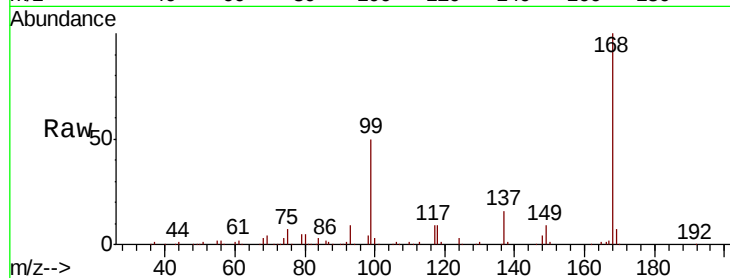
PB111961ZHE#01

Tot Ion:168 Resp: 632263

Ion Ratio Lower Upper

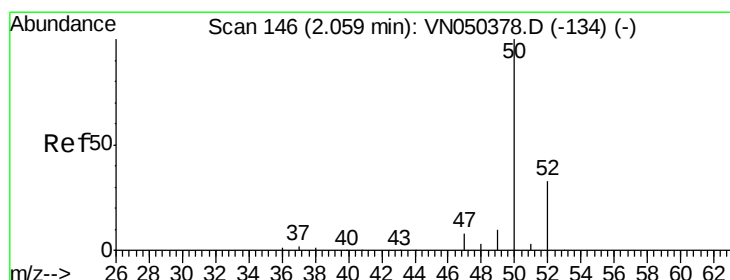
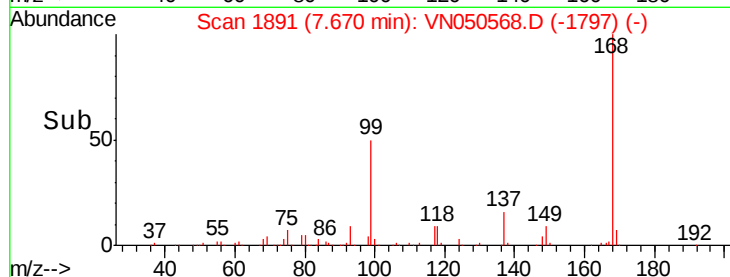
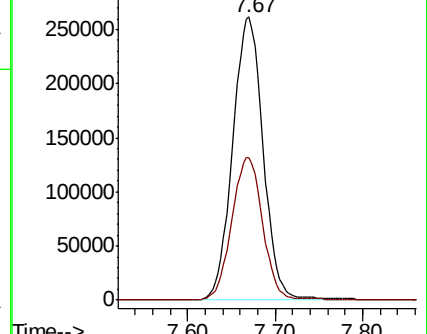
168 100

99 50.5 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050568.D

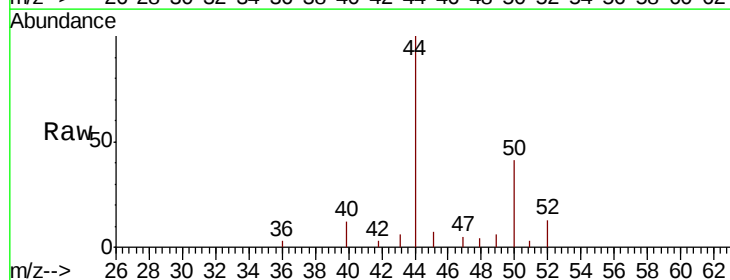
Acq: 13 Aug 2018 15:08

Tgt Ion: 50 Resp: 2843

Ion Ratio Lower Upper

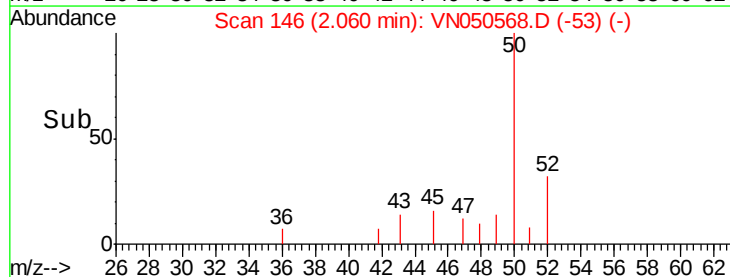
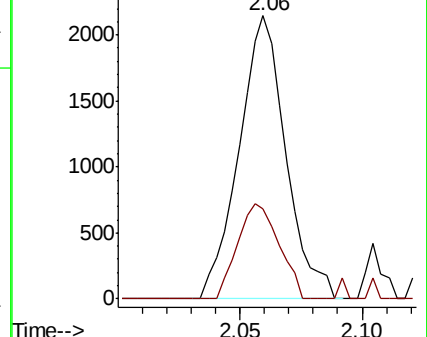
50 100

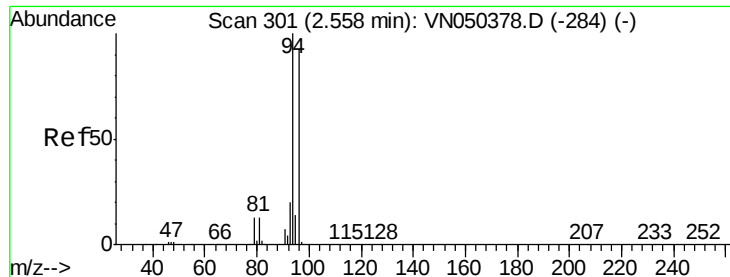
52 31.9 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: 1.17 ug/l

RT: 2.57 min Scan# 306

Delta R.T. 0.02 min

Lab File: VN050568.D

Acq: 13 Aug 2018 15:08

Instrument :

MSVOA_N

ClientSampleId :

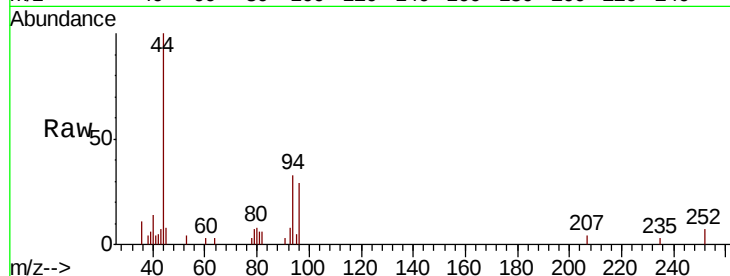
PB111961ZHE#01

Tot Ion: 94 Resp: 4409

Ion Ratio Lower Upper

94 100

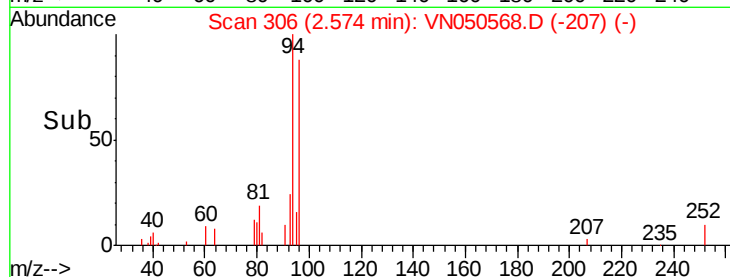
96 87.5 74.6 112.0



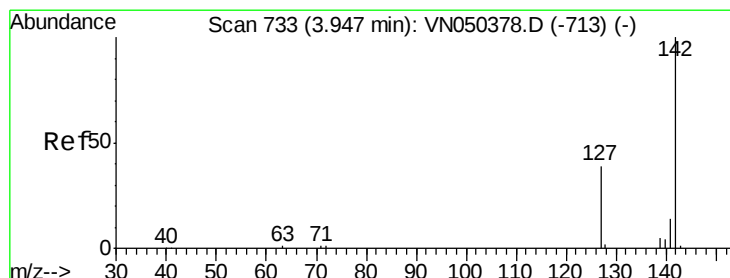
Abundance Ion 93.90 (93.60 to 94.60): VN050378.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050378.D (-284) (-)

Time-->



Time-->



#10

Methyl Iodide

Concen: 0.33 ug/l

RT: 3.96 min Scan# 736

Delta R.T. 0.01 min

Lab File: VN050568.D

Acq: 13 Aug 2018 15:08

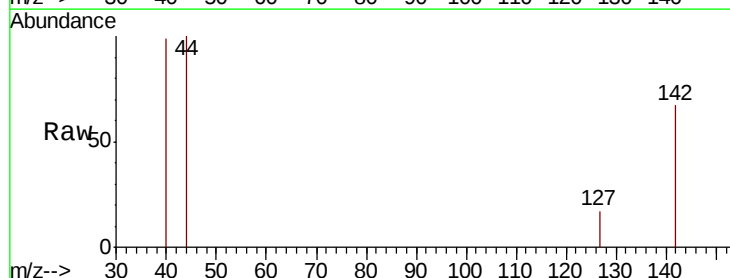
Tgt Ion: 142 Resp: 1042

Ion Ratio Lower Upper

142 100

127 22.3 33.4 50.2#

141 0.0 11.6 17.4#

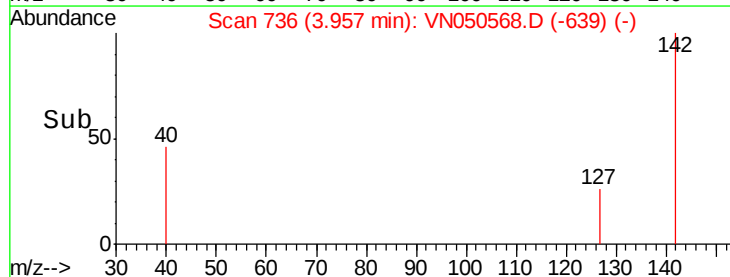


Abundance Ion 141.80 (141.50 to 142.50): VN050378.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050378.D (-713) (-)

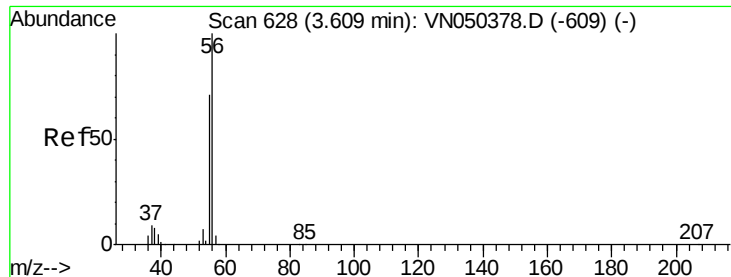
Ion 140.80 (140.50 to 141.50): VN050378.D (-713) (-)

Time-->



Time-->

Time-->



#13

Acrolein

Concen: 15.10 ug/l

RT: 3.61 min Scan# 627

Delta R.T. -0.00 min

Lab File: VN050568.D

Acq: 13 Aug 2018 15:08

Instrument :

MSVOA_N

ClientSampleId :

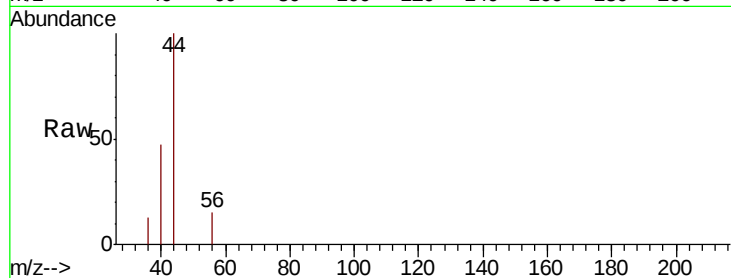
PB111961ZHE#01

Tot Ion: 56 Resp: 67

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

3.61

200

150

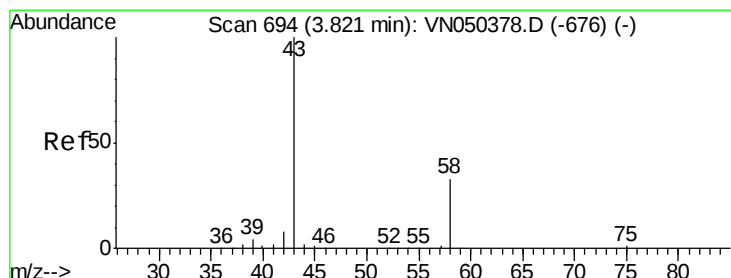
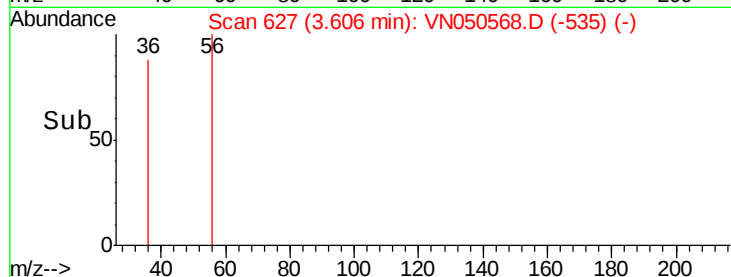
100

50

0

3.59 3.60 3.61

Time-->



#16

Acetone

Concen: 4.59 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050568.D

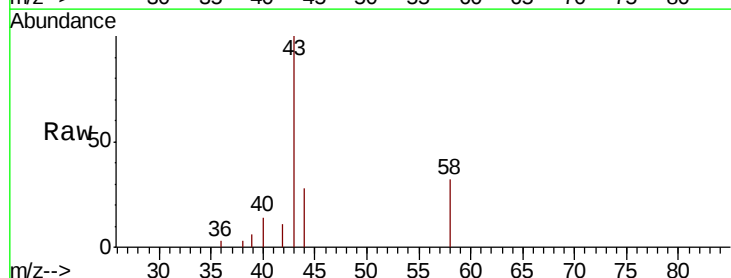
Acq: 13 Aug 2018 15:08

Tgt Ion: 43 Resp: 12447

Ion Ratio Lower Upper

43 100

58 31.5 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

5000

4000

3000

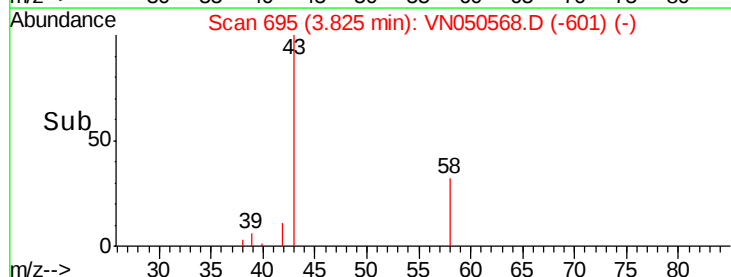
2000

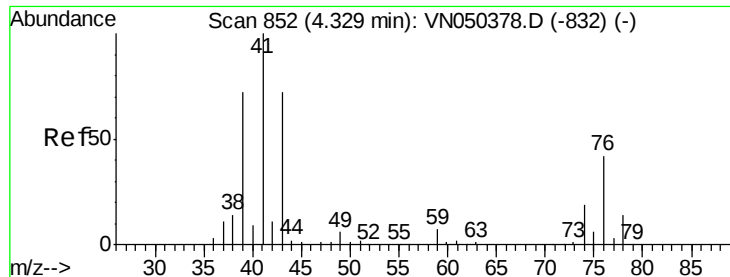
1000

0

3.75 3.80 3.85 3.90

Time-->

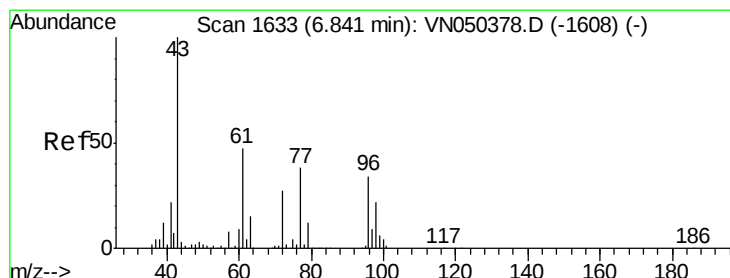
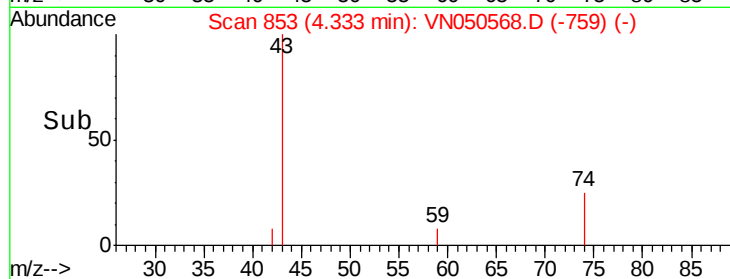
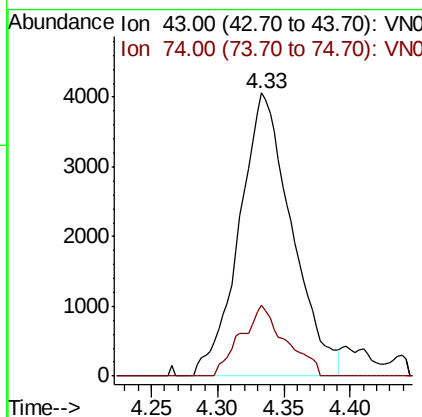
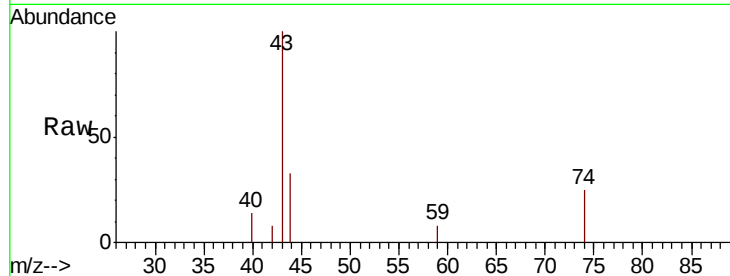




#18
Methyl Acetate
Concen: 1.52 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN050568.D
Acq: 13 Aug 2018 15:08

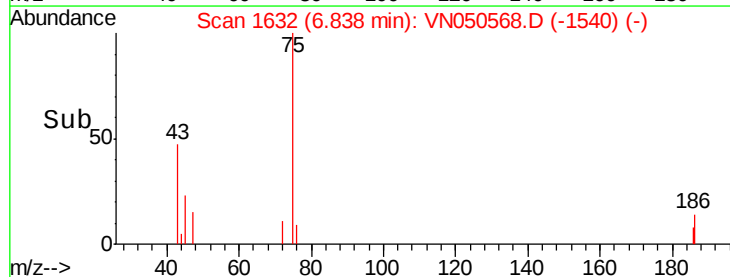
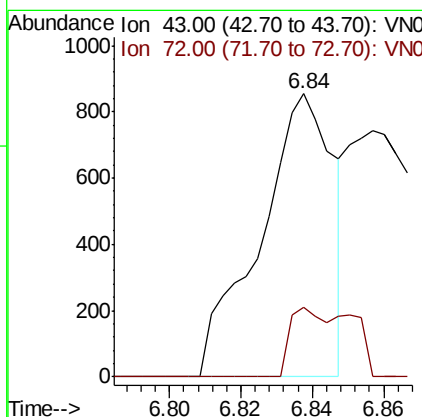
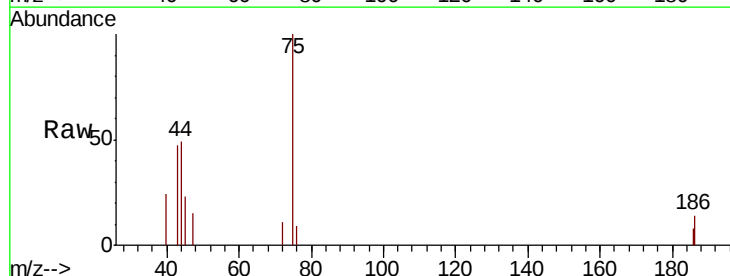
Instrument :
MSVOA_N
ClientSampleId :
PB111961ZHE#01

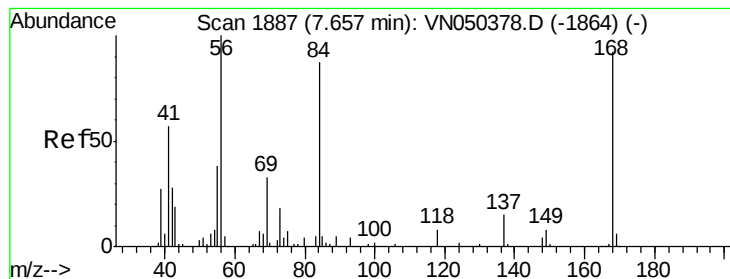
Tot Ion: 43 Resp: 11179
Ion Ratio Lower Upper
43 100
74 21.4 19.2 28.8



#25
2-Butanone
Concen: 0.29 ug/l
RT: 6.84 min Scan# 1632
Delta R.T. -0.00 min
Lab File: VN050568.D
Acq: 13 Aug 2018 15:08

Tgt Ion: 43 Resp: 1210
Ion Ratio Lower Upper
43 100
72 24.6 21.5 32.3





#31

Cyclohexane

Concen: 0.31 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.01 min

Lab File: VN050568.D

Acq: 13 Aug 2018 15:08

Instrument :

MSVOA_N

ClientSampleId :

PB111961ZHE#01

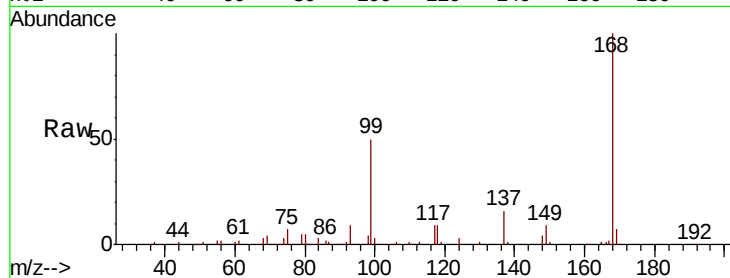
Tot Ion: 56 Resp: 11339

Ion Ratio Lower Upper

56 100

69 189.4 26.2 39.4#

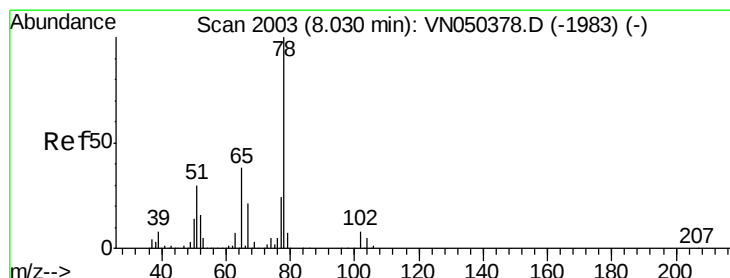
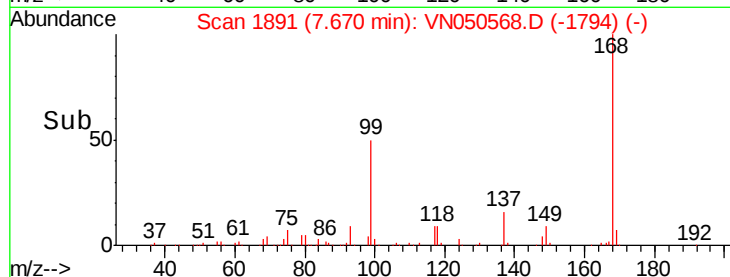
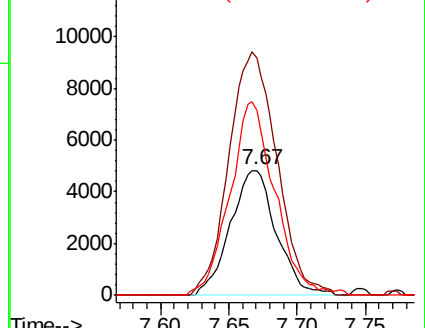
84 143.4 67.4 101.0#



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: 51.74 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050568.D

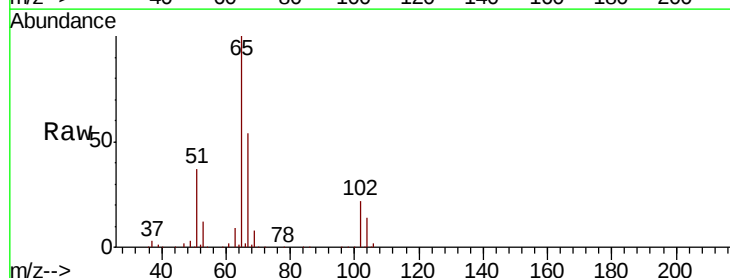
Acq: 13 Aug 2018 15:08

Tgt Ion: 65 Resp: 437052

Ion Ratio Lower Upper

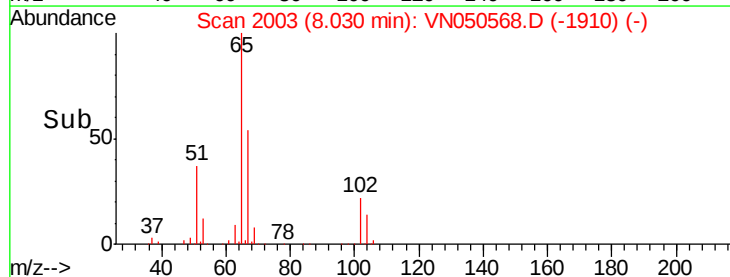
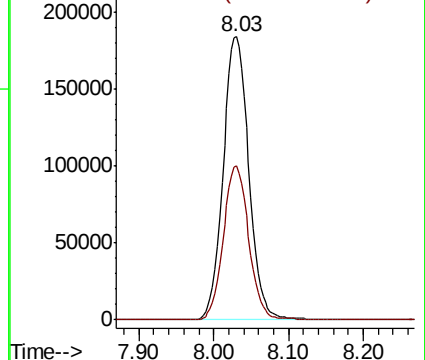
65 100

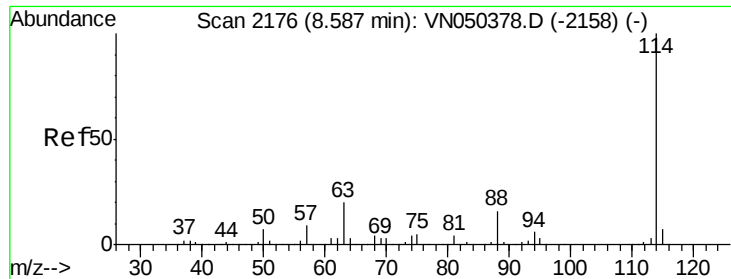
67 53.5 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

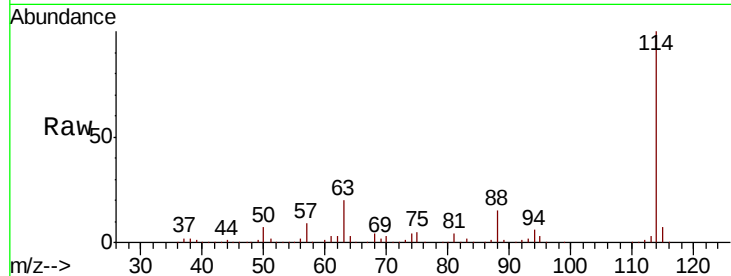




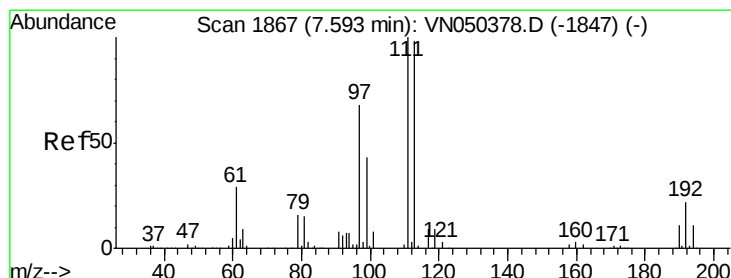
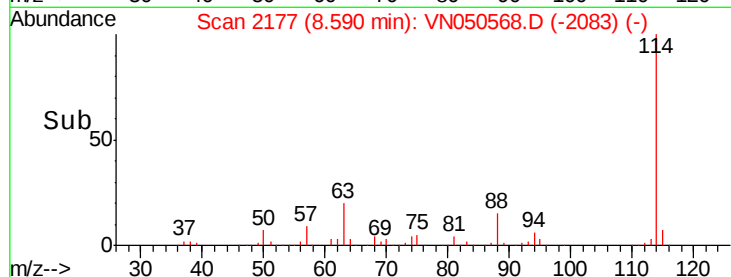
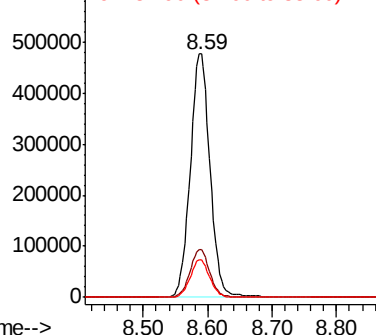
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050568.D
 Acq: 13 Aug 2018 15:08

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111961ZHE#01

Tot Ion:114 Resp: 1018431
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.0
 88 15.4 0.0 31.2

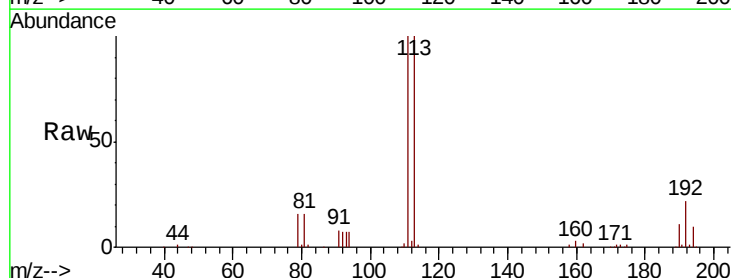


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

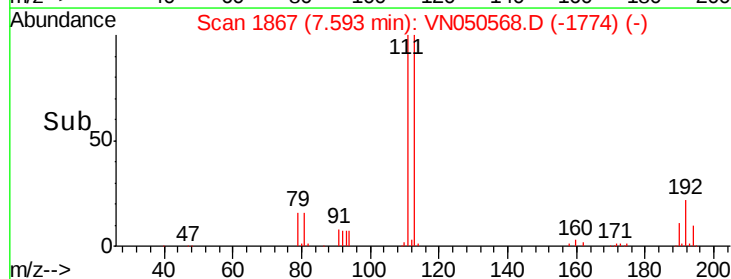
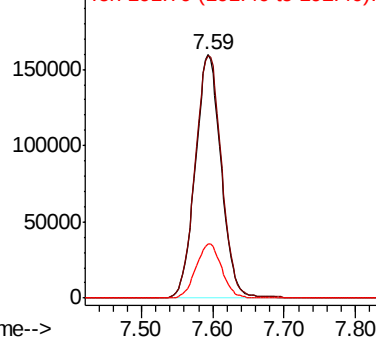


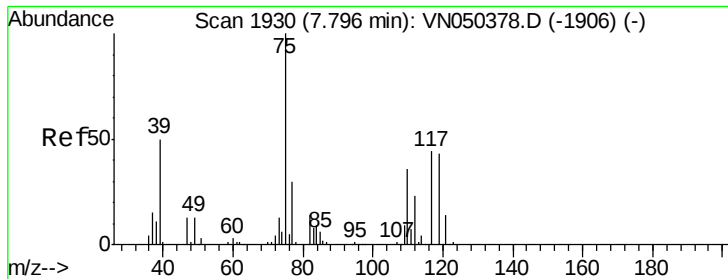
#35
 Dibromofluoromethane
 Concen: 49.08 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050568.D
 Acq: 13 Aug 2018 15:08

Tgt Ion:113 Resp: 401065
 Ion Ratio Lower Upper
 113 100
 111 102.2 80.7 121.1
 192 22.3 17.8 26.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.13 min

Lab File: VN050568.D

Acq: 13 Aug 2018 15:08

Instrument :

MSVOA_N

ClientSampleId :

PB111961ZHE#01

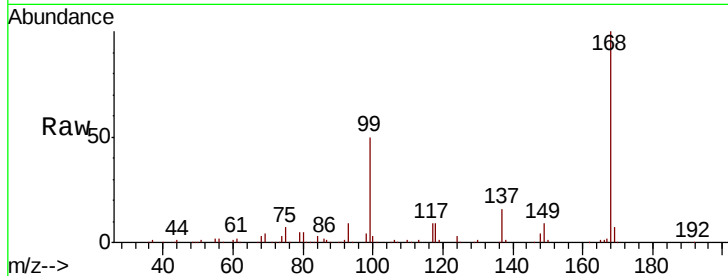
Tot Ion: 75 Resp: 44736

Ion Ratio Lower Upper

75 100

110 7.1 18.4 55.2#

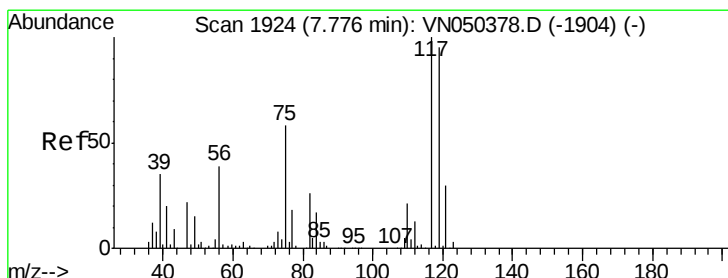
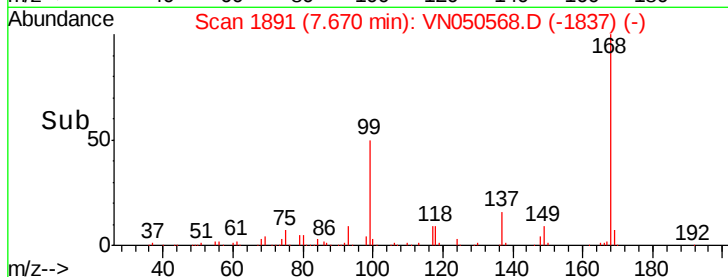
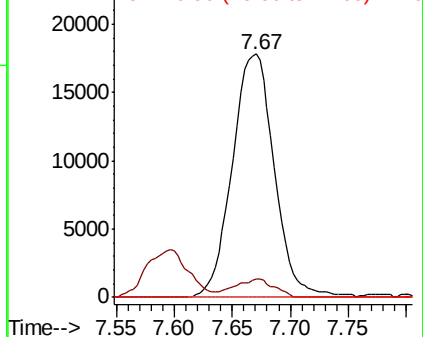
77 0.0 25.3 37.9#



Abundance Ion 74.90 (74.60 to 75.60): VN050378.D (-1906) (-)

Ion 109.90 (109.60 to 110.60): VN050378.D (-1906) (-)

Ion 76.90 (76.60 to 77.60): VN050378.D (-1906) (-)



#38

Carbon Tetrachloride

Concen: 4.88 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.11 min

Lab File: VN050568.D

Acq: 13 Aug 2018 15:08

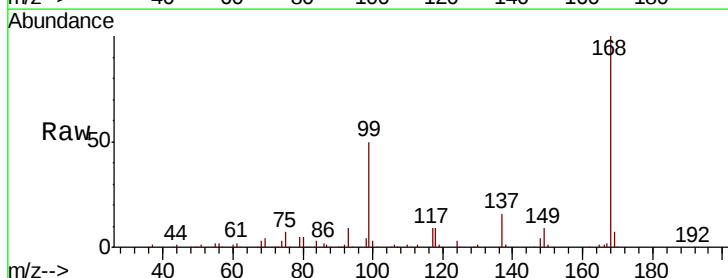
Tgt Ion: 117 Resp: 56926

Ion Ratio Lower Upper

117 100

119 6.5 77.4 116.0#

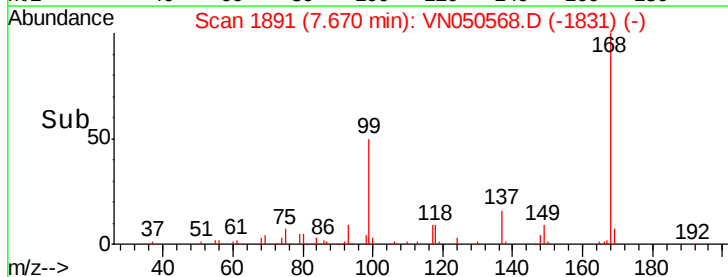
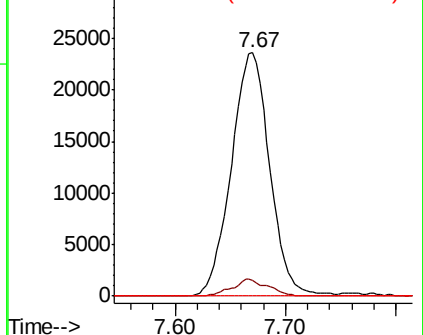
121 0.0 23.9 35.9#

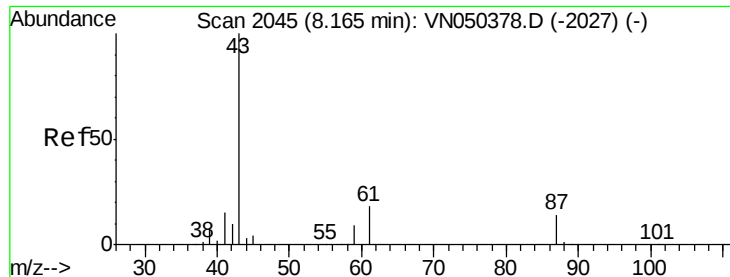


Abundance Ion 116.80 (116.50 to 117.50): VN050378.D (-1904) (-)

Ion 118.80 (118.50 to 119.50): VN050378.D (-1904) (-)

Ion 120.80 (120.50 to 121.50): VN050378.D (-1904) (-)



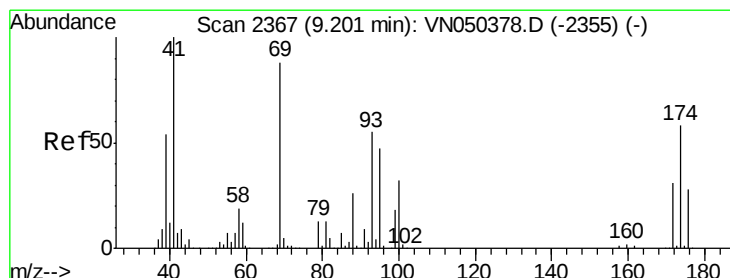
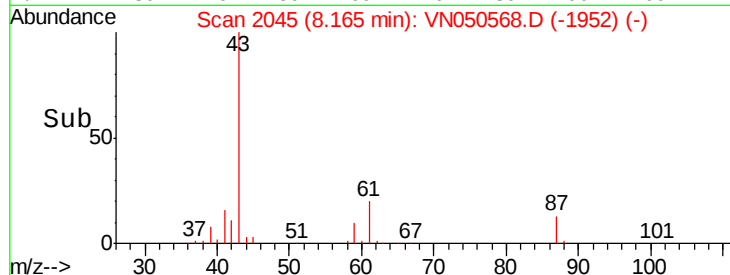
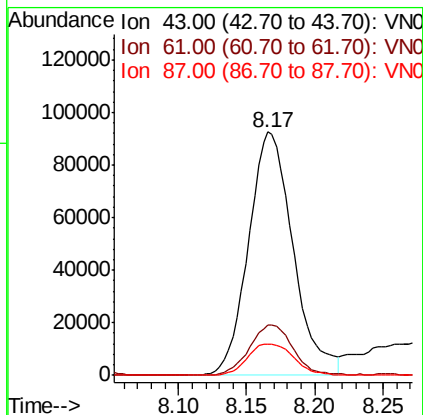
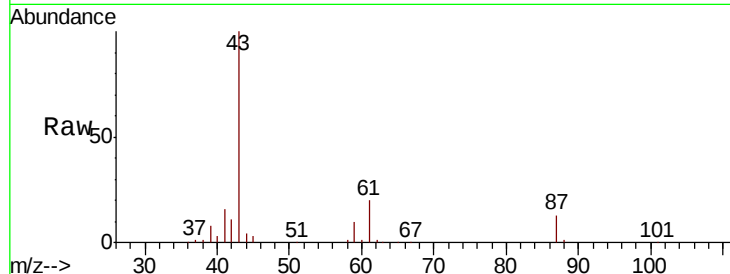


#43

Isopropyl Acetate
 Concen: 15.13 ug/l
 RT: 8.17 min Scan# 2045
 Delta R.T. 0.00 min
 Lab File: VN050568.D
 Acq: 13 Aug 2018 15:08

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111961ZHE#01

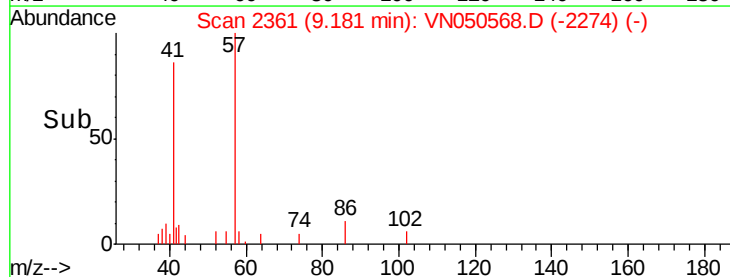
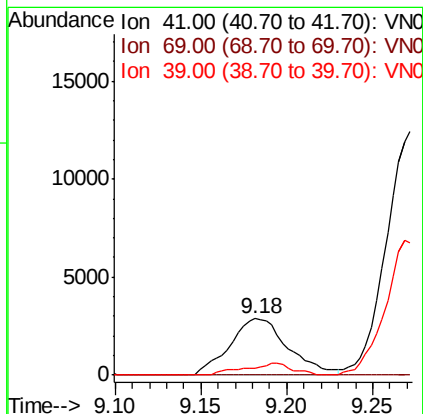
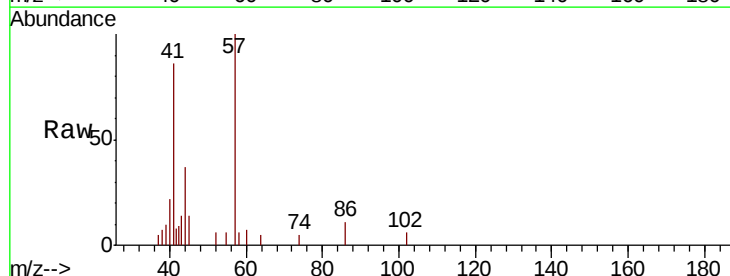
Tot Ion: 43 Resp: 210472
 Ion Ratio Lower Upper
 43 100
 61 20.2 15.8 23.6
 87 13.5 10.3 15.5

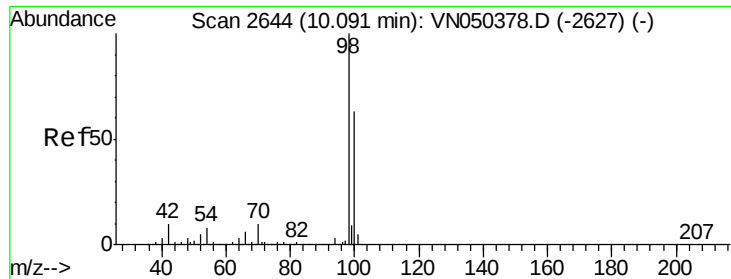


#48

Methyl methacrylate
 Concen: 0.97 ug/l
 RT: 9.18 min Scan# 2361
 Delta R.T. -0.02 min
 Lab File: VN050568.D
 Acq: 13 Aug 2018 15:08

Tgt Ion: 41 Resp: 6791
 Ion Ratio Lower Upper
 41 100
 69 0.0 70.6 105.8#
 39 17.1 43.9 65.9#

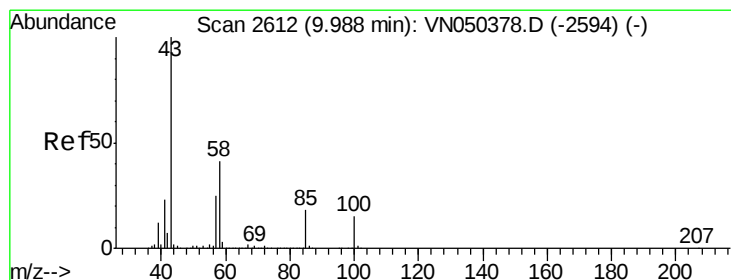
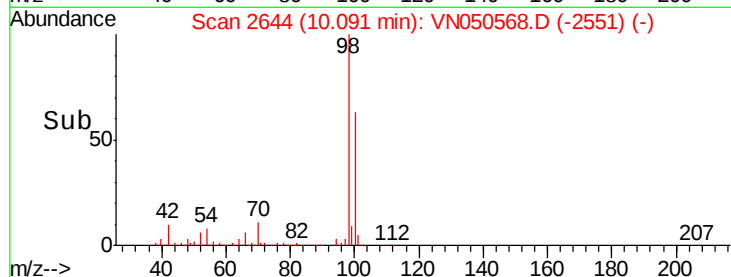
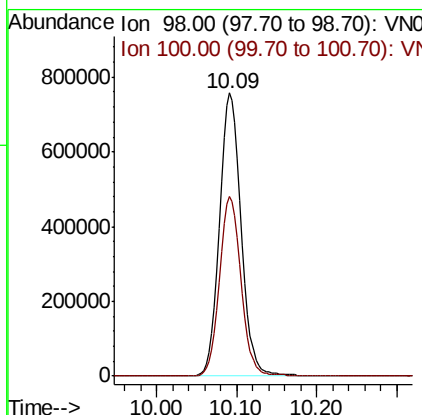
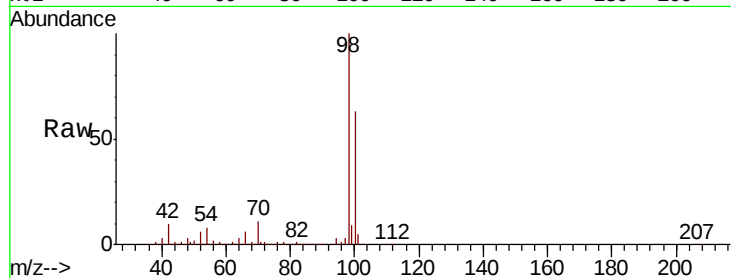




#50
Toluene-d8
Concen: 46.22 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050568.D
Acq: 13 Aug 2018 15:08

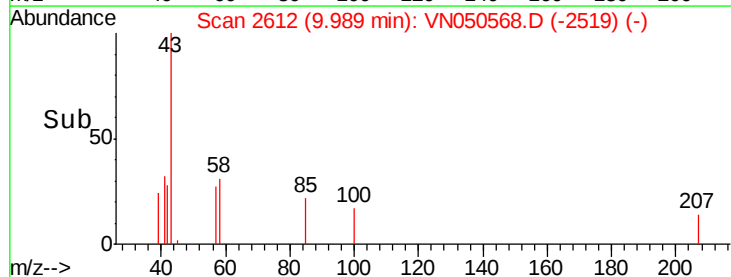
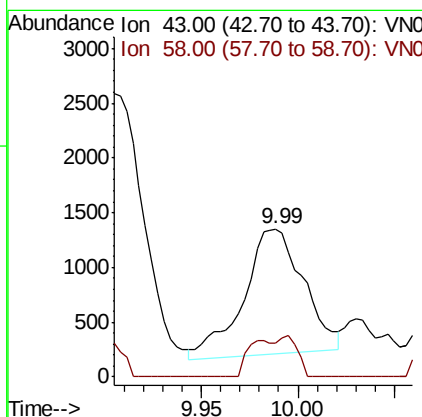
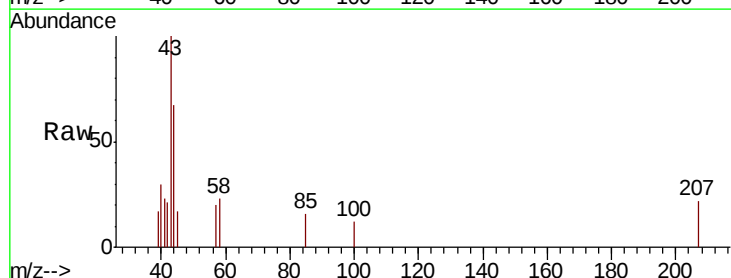
Instrument :
MSVOA_N
ClientSampleId :
PB111961ZHE#01

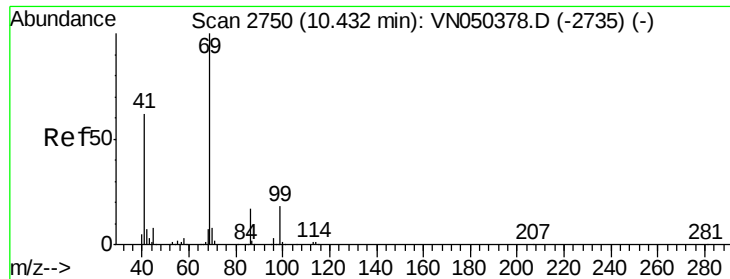
Tot Ion: 98 Resp: 1420060
Ion Ratio Lower Upper
98 100
100 63.3 50.7 76.1



#51
4-Methyl-2-Pentanone
Concen: 0.25 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050568.D
Acq: 13 Aug 2018 15:08

Tgt Ion: 43 Resp: 2476
Ion Ratio Lower Upper
43 100
58 13.9 31.9 47.9#





#56

Ethyl methacrylate

Concen: 1.72 ug/l

RT: 10.29 min Scan# 2705

Delta R.T. -0.14 min

Lab File: VN050568.D

Acq: 13 Aug 2018 15:08

Instrument :

MSVOA_N

ClientSampleId :

PB111961ZHE#01

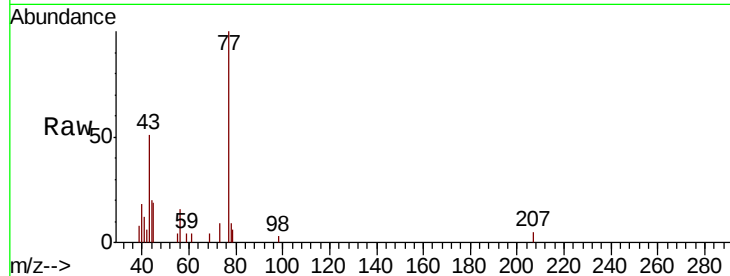
Tot Ion: 69 Resp: 102

Ion Ratio Lower Upper

69 100

41 1142.2 51.0 76.4#

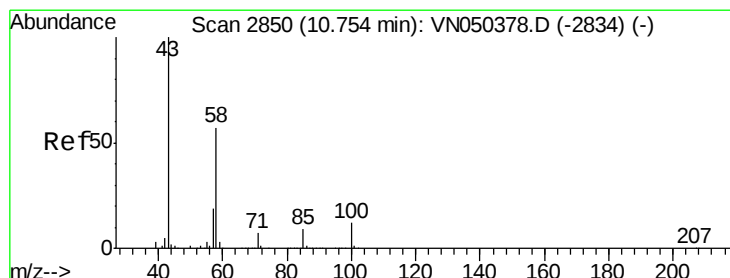
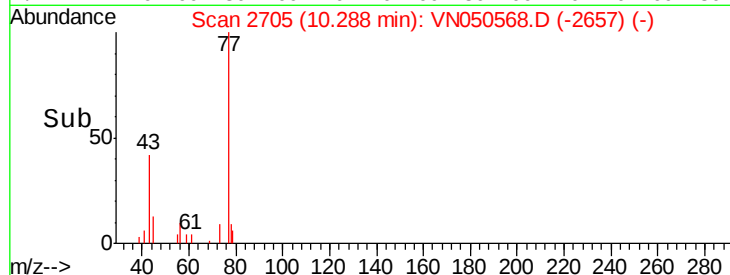
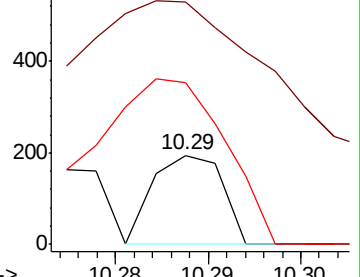
39 342.2 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VN050378.D (-2735) (-)

Ion 41.00 (40.70 to 41.70): VN050378.D (-2735) (-)

Ion 39.00 (38.70 to 39.70): VN050378.D (-2735) (-)



#59

2-Hexanone

Concen: 2.52 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050568.D

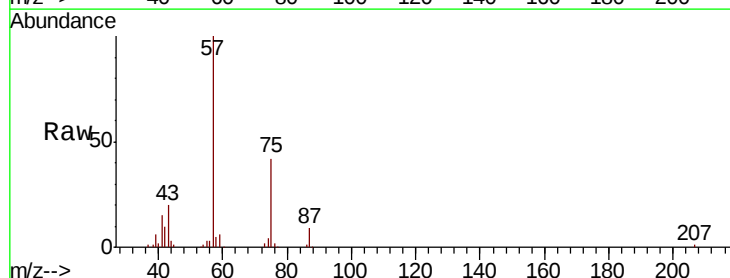
Acq: 13 Aug 2018 15:08

Tgt Ion: 43 Resp: 17645

Ion Ratio Lower Upper

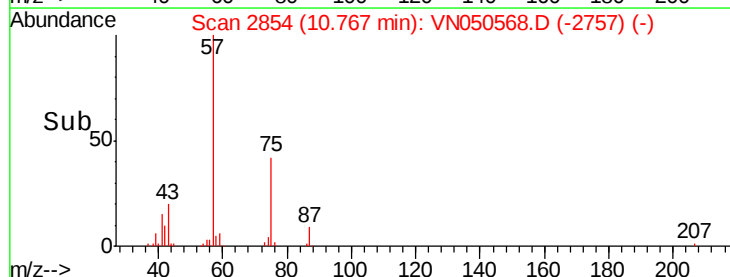
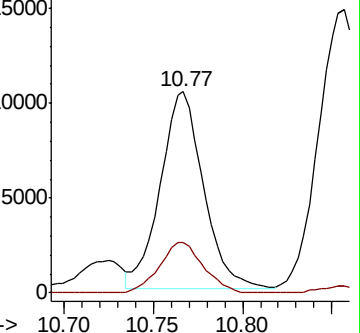
43 100

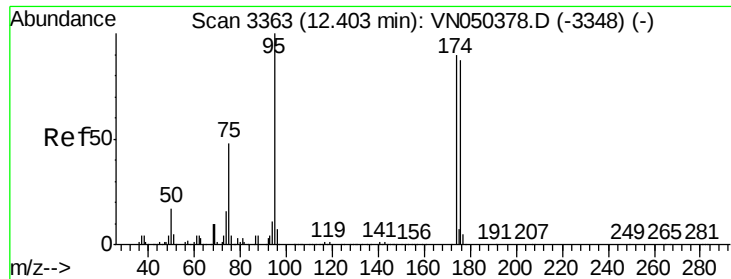
58 25.8 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN050378.D (-2834) (-)

Ion 58.00 (57.70 to 58.70): VN050378.D (-2834) (-)

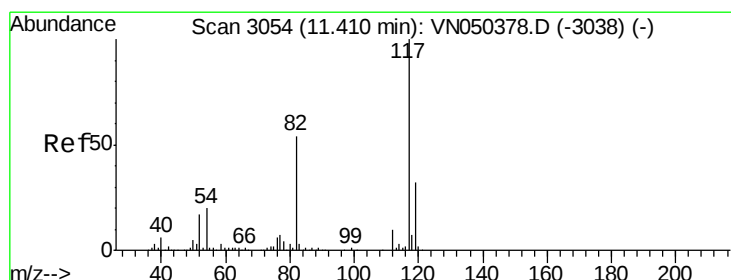
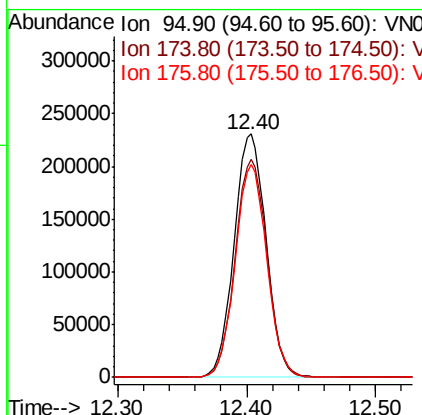
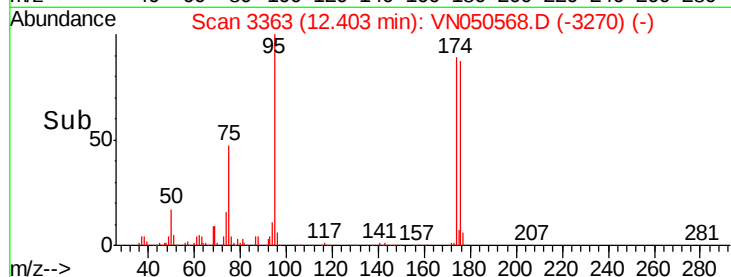
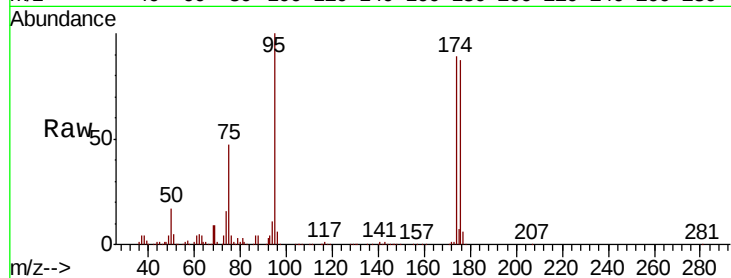




#62
4-Bromofluorobenzene
Concen: 37.89 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050568.D
Acq: 13 Aug 2018 15:08

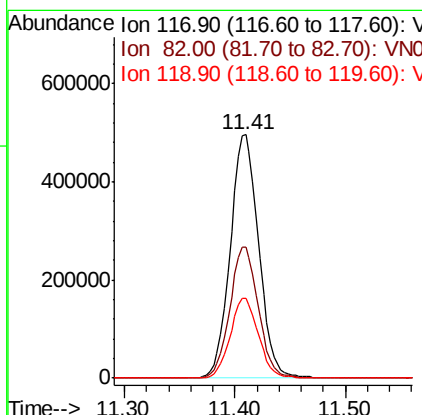
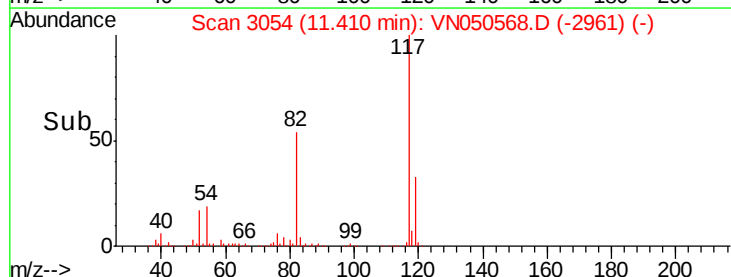
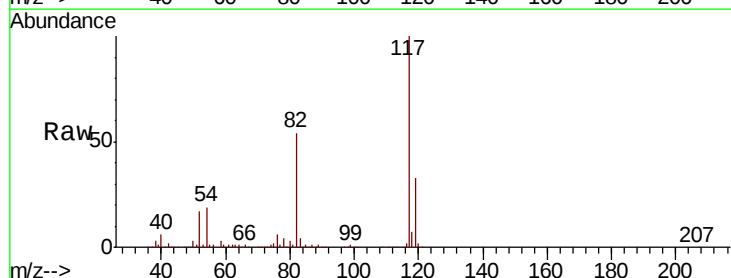
Instrument :
MSVOA_N
ClientSampleId :
PB111961ZHE#01

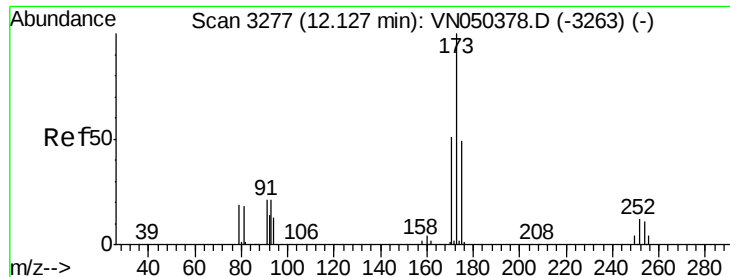
Tot Ion: 95 Resp: 396753
Ion Ratio Lower Upper
95 100
174 89.8 0.0 178.2
176 86.2 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050568.D
Acq: 13 Aug 2018 15:08

Tgt Ion: 117 Resp: 886598
Ion Ratio Lower Upper
117 100
82 53.7 43.7 65.5
119 32.7 26.1 39.1





#71

Bromoform

Concen: 0.43 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN050568.D

Acq: 13 Aug 2018 15:08

Instrument :

MSVOA_N

ClientSampleId :

PB111961ZHE#01

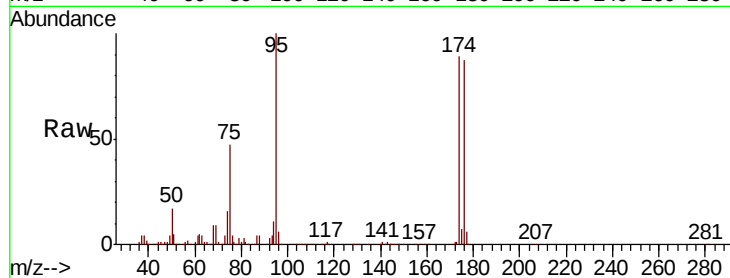
Tot Ion:173 Resp: 2562

Ion Ratio Lower Upper

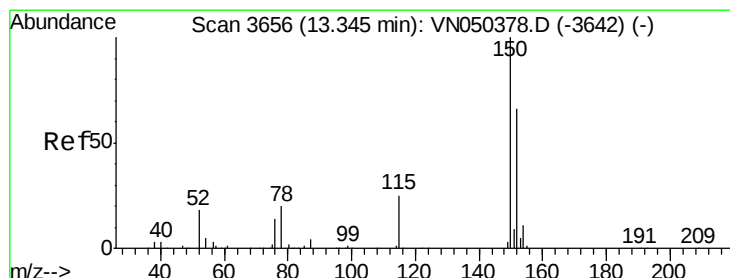
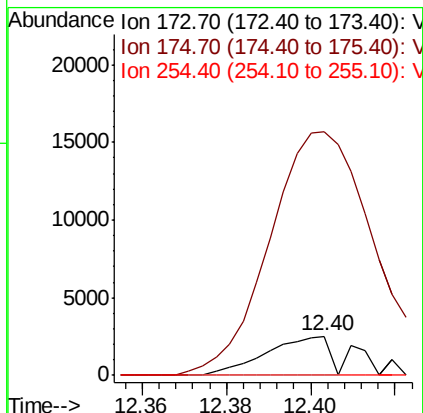
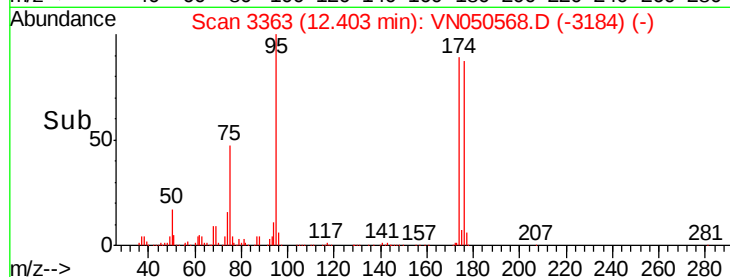
173 100

175 891.1 24.1 72.2#

254 0.0 0.2 0.2#



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: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050568.D

Acq: 13 Aug 2018 15:08

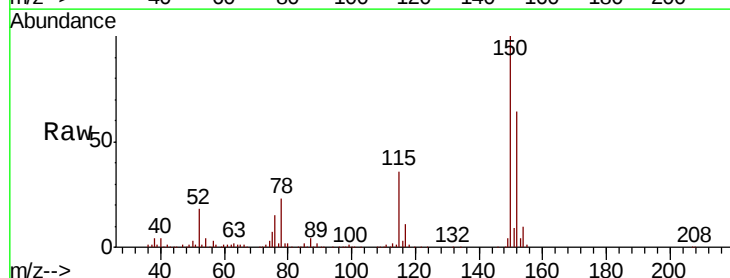
Tgt Ion:152 Resp: 321243

Ion Ratio Lower Upper

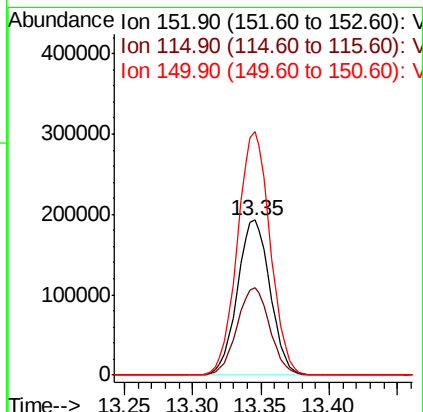
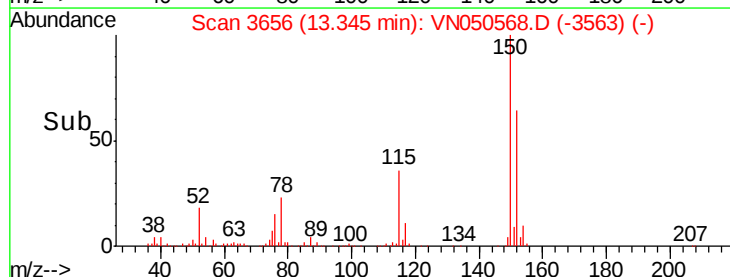
152 100

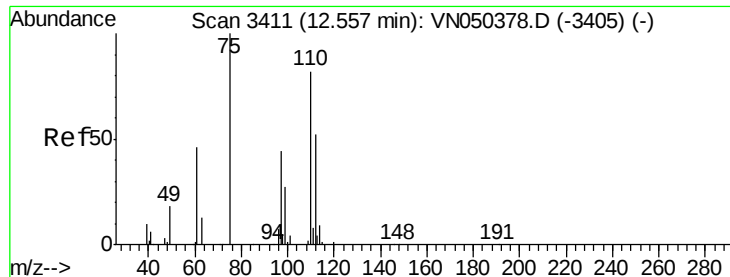
115 56.3 27.8 83.3

150 156.4 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: 32.40 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050568.D

Acq: 13 Aug 2018 15:08

Instrument :

MSVOA_N

ClientSampleId :

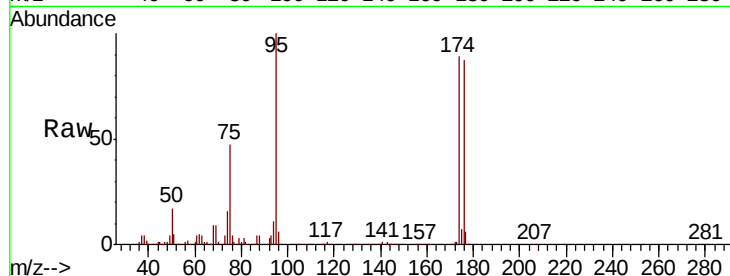
PB111961ZHE#01

Tot Ion: 75 Resp: 188399

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

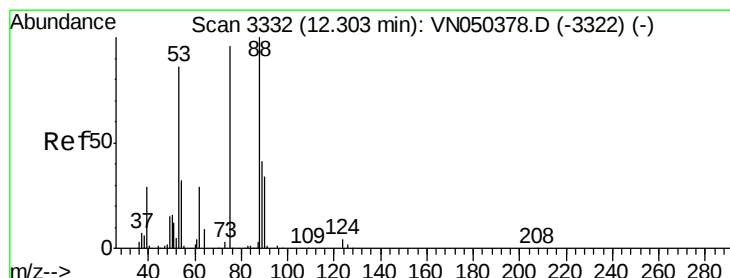
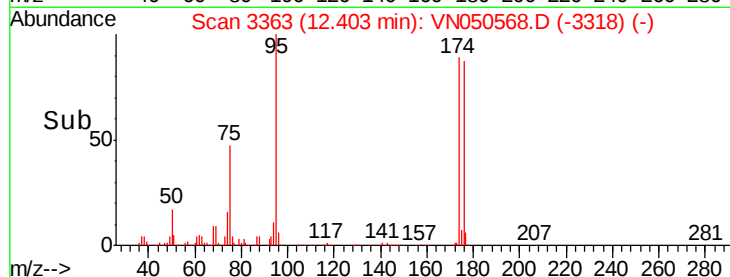
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 113.84 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050568.D

Acq: 13 Aug 2018 15:08

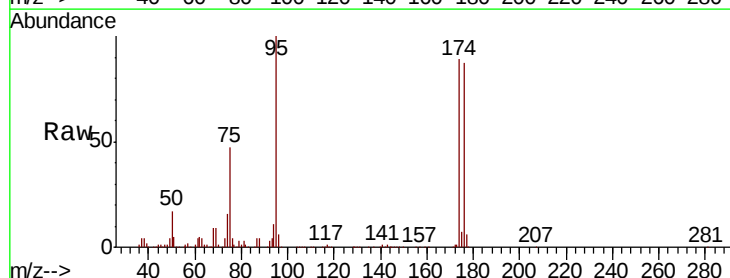
Tgt Ion: 75 Resp: 188399

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

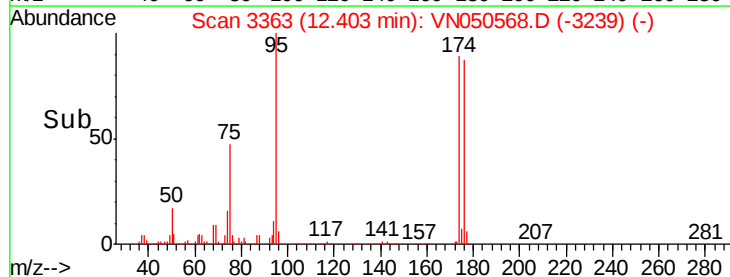
150000

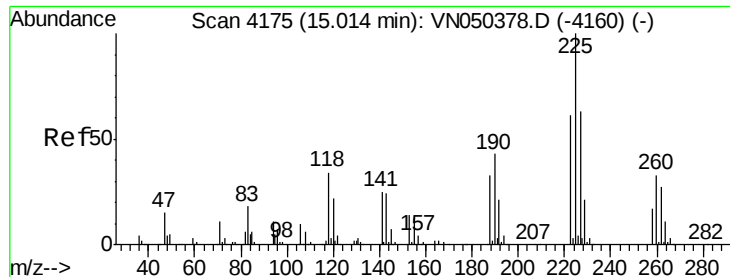
100000

50000

0

Time--> 12.30 12.40 12.50

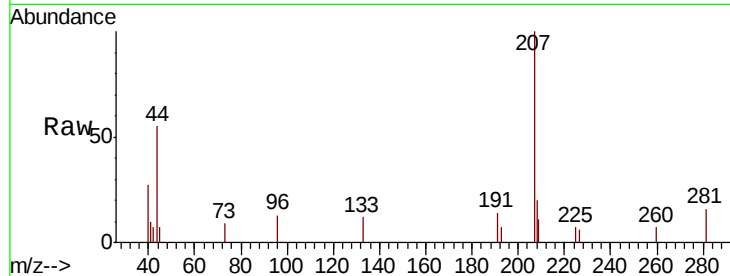




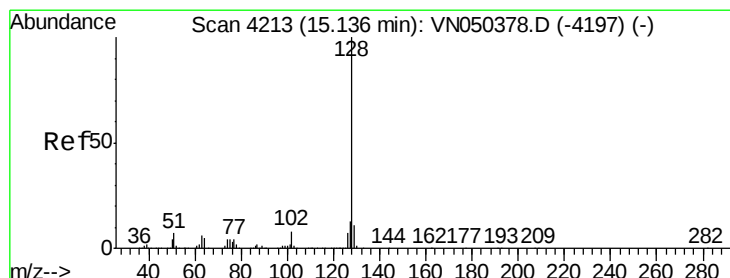
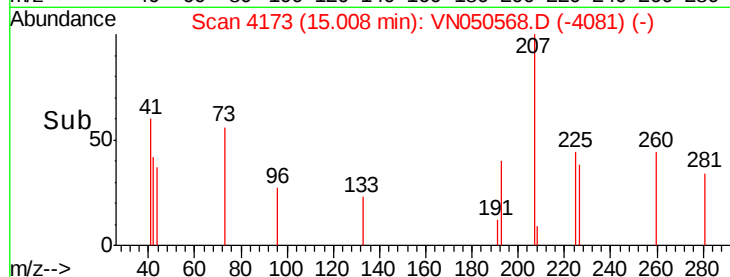
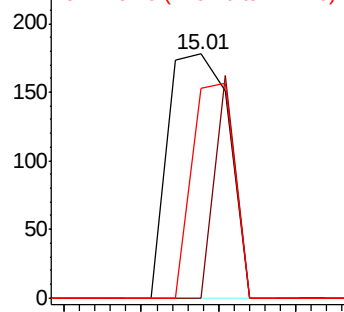
#94
Hexachlorobutadiene
Concen: Below Cal
RT: 15.01 min Scan# 4173
Delta R.T. -0.01 min
Lab File: VN050568.D
Acq: 13 Aug 2018 15:08

Instrument :
MSVOA_N
ClientSampleId :
PB111961ZHE#01

Tot Ion	Ratio	Lower	Upper
225	100		
223	32.0	31.4	94.2
227	61.9	32.1	96.5

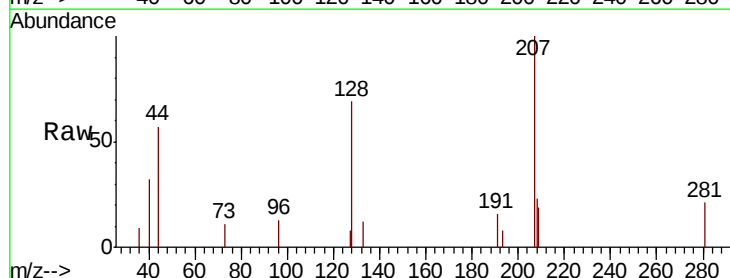


Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95
Naphthalene
Concen: 3.74 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN050568.D
Acq: 13 Aug 2018 15:08

Tgt Ion	Ratio	Lower	Upper
128	100		
127	8.1	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

