

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050664.D
 Acq On : 15 Aug 2018 18:56
 Operator : MD\SY
 Sample : PB1112055ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055ZHE#04

Quant Time: Aug 16 01:32:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 14 08:07:08 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	572175	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	978164	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	830538	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	309701	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	409139	56.73	ug/l	0.00
Spiked Amount			Recovery	=	113.46%	
35) Dibromofluoromethane	7.59	113	378394	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	
50) Toluene-d8	10.09	98	1322070	44.98	ug/l	0.00
Spiked Amount			Recovery	=	89.96%	
62) 4-Bromofluorobenzene	12.40	95	368756	37.98	ug/l	0.00
Spiked Amount			Recovery	=	75.96%	

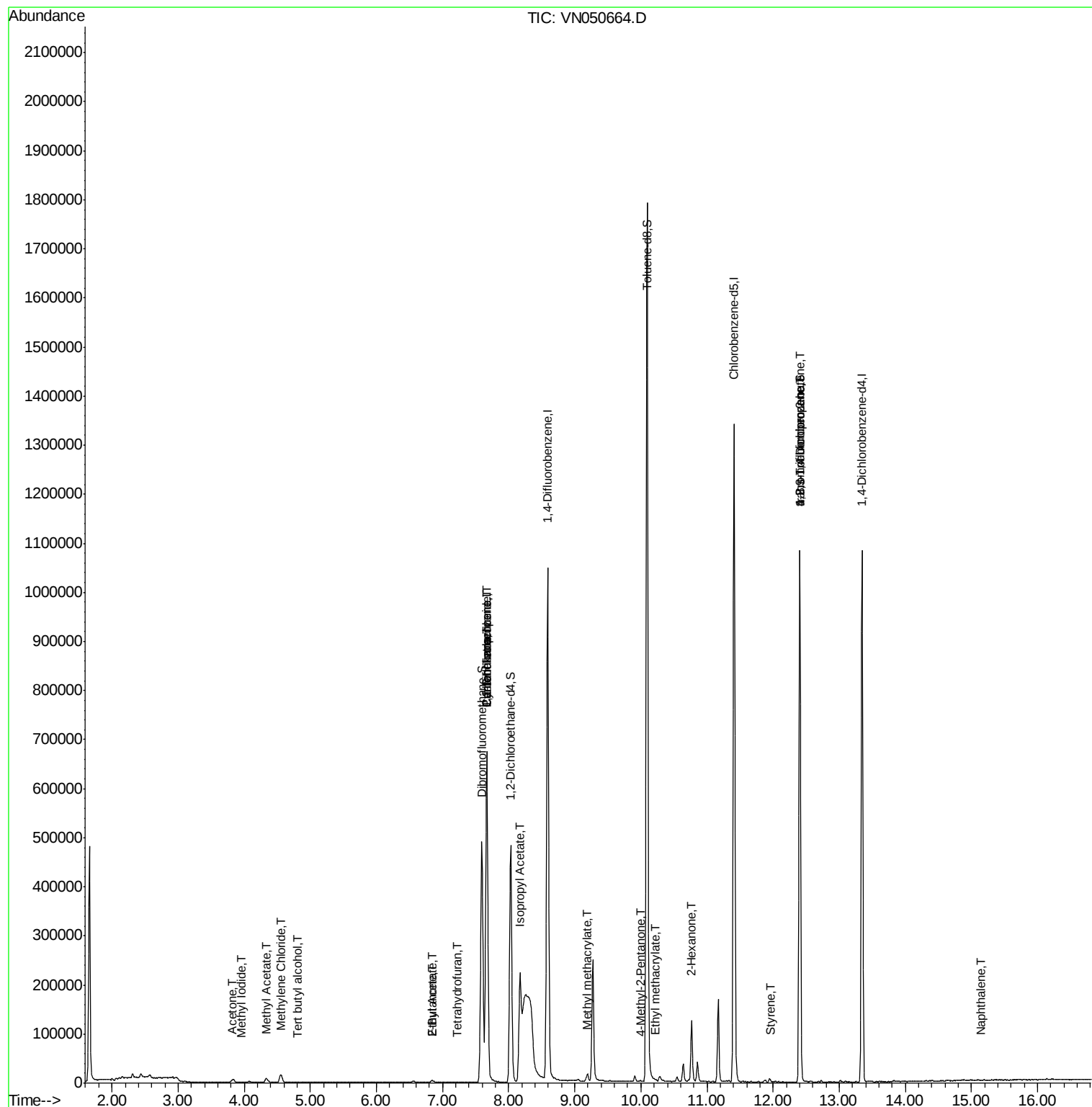
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2703	Below Cal		98
5) Bromomethane	2.57	94	3194	Below Cal		87
6) Chloroethane	2.69	64	331	Below Cal	#	43
10) Methyl Iodide	3.96	142	441	7.03	ug/l #	42
11) Tert butyl alcohol	4.80	59	189	0.48	ug/l #	72
16) Acetone	3.82	43	13136	5.88	ug/l	96
18) Methyl Acetate	4.33	43	14758	1.96	ug/l #	67
20) Methylene Chloride	4.55	84	12535	0.57	ug/l	97
25) 2-Butanone	6.85	43	6528	2.21	ug/l	92
29) Tetrahydrofuran	7.22	42	457	0.30	ug/l #	92
31) Cyclohexane	7.67	56	9930	0.57	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	39647	3.64	ug/l #	47
37) Ethyl Acetate	6.85	43	6528	1.06	ug/l #	67
38) Carbon Tetrachloride	7.67	117	52100	4.61	ug/l #	17
43) Isopropyl Acetate	8.17	43	293885	26.20	ug/l #	92
48) Methyl methacrylate	9.18	41	8491	1.50	ug/l #	20
51) 4-Methyl-2-Pentanone	9.99	43	1630	0.21	ug/l #	86
56) Ethyl methacrylate	10.22	69	2246	2.13	ug/l #	84
59) 2-Hexanone	10.77	43	18448	3.77	ug/l #	61
70) Styrene	11.97	104	187	0.95	ug/l #	26
75) 1,1,2,2-Tetrachloroethane	12.55	83	61	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	176637	34.99	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	176637	126.80	ug/l #	13
95) Naphthalene	15.15	128	30	3.86	ug/l #	69

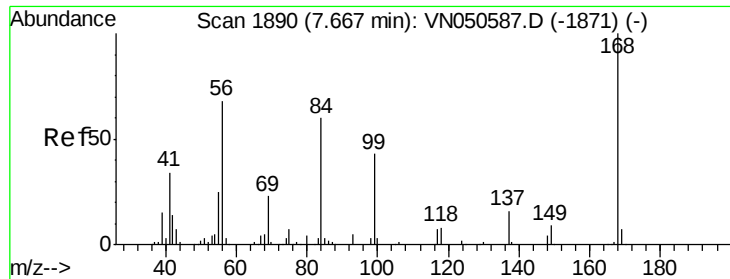
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 16 01:32:16 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N081418W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 14 08:07:08 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: VN050664.D

Acq: 15 Aug 2018 18:56

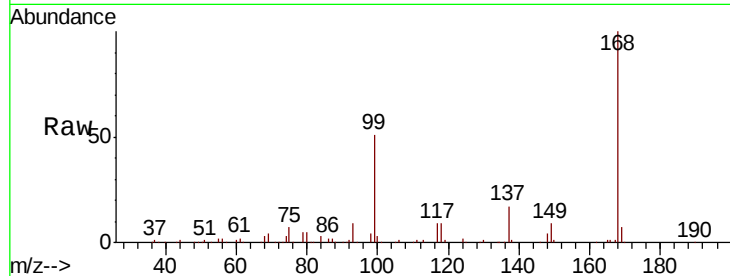
Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#04

Tot Ion:168 Resp: 572175

Ion Ratio Lower Upper

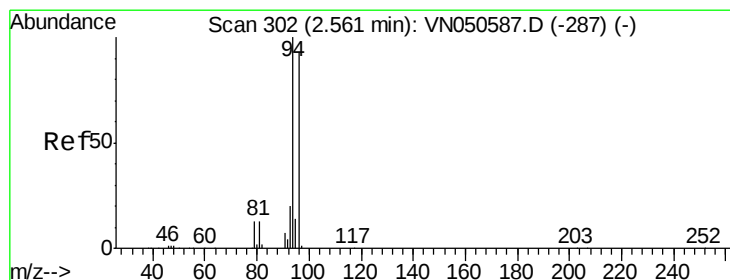
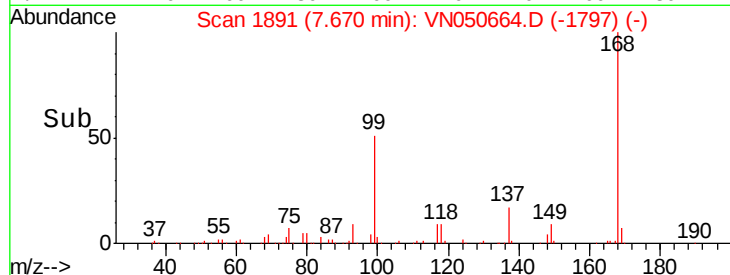
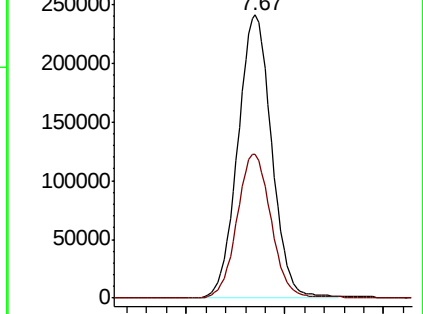
168 100

99 50.6 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050664.D

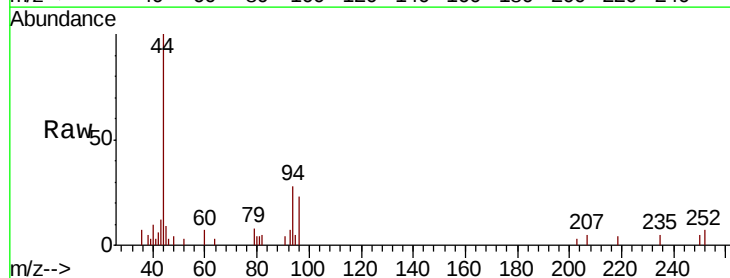
Acq: 15 Aug 2018 18:56

Tgt Ion: 94 Resp: 3194

Ion Ratio Lower Upper

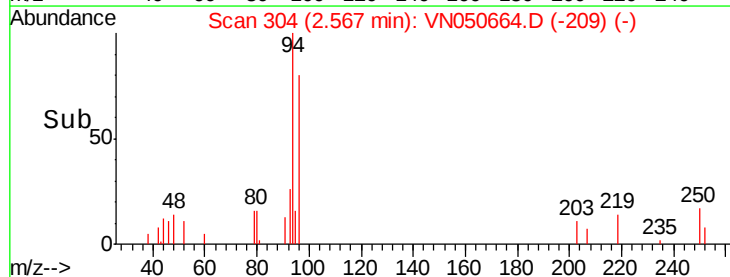
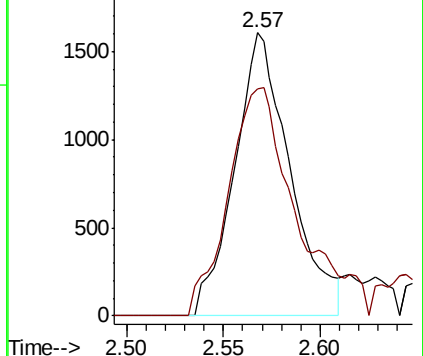
94 100

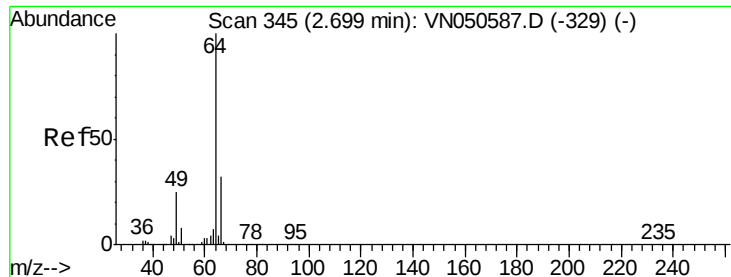
96 80.0 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#6

Chloroethane

Concen: Below Cal

RT: 2.69 min Scan# 343

Delta R.T. -0.01 min

Lab File: VN050664.D

Acq: 15 Aug 2018 18:56

Instrument :

MSVOA_N

ClientSampleId :

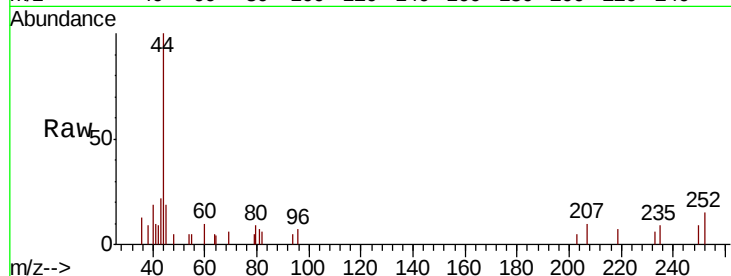
PB1112055ZHE#04

Tot Ion: 64 Resp: 331

Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#



Abundance Ion 63.90 (63.60 to 64.60): VN050587.D (-329) (-)

Ion 65.90 (65.60 to 66.60): VN050587.D (-329) (-)

2.69

300

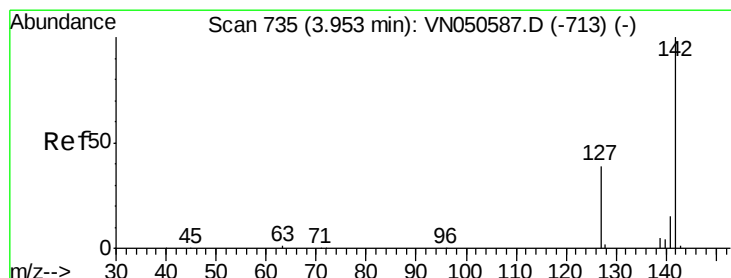
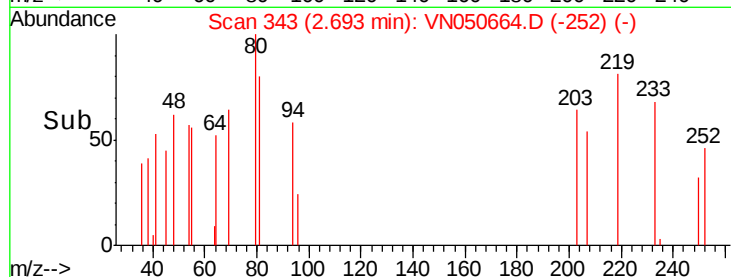
200

100

0

2.68 2.69 2.70 2.71 2.72

Time-->



#10

Methyl Iodide

Concen: 7.03 ug/l

RT: 3.96 min Scan# 736

Delta R.T. 0.00 min

Lab File: VN050664.D

Acq: 15 Aug 2018 18:56

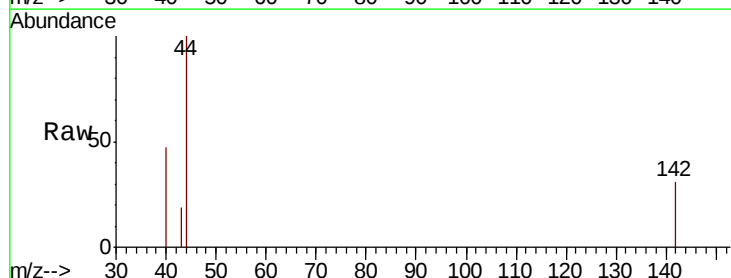
Tgt Ion: 142 Resp: 441

Ion Ratio Lower Upper

142 100

127 0.0 32.6 49.0#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VN050587.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050587.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050587.D (-713) (-)

3.96

400

300

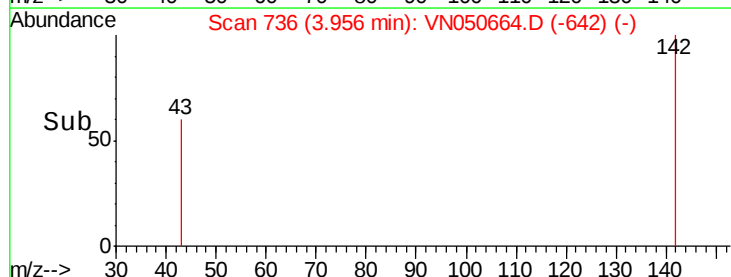
200

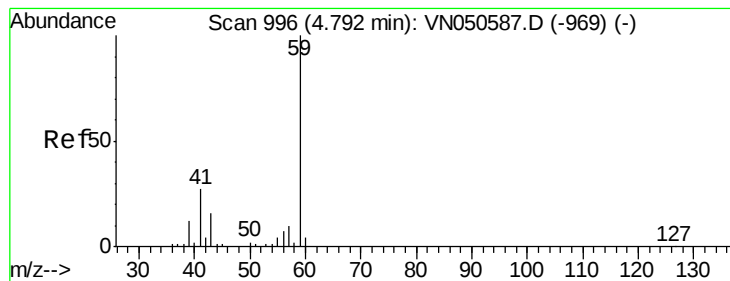
100

0

3.94 3.96 3.98

Time-->



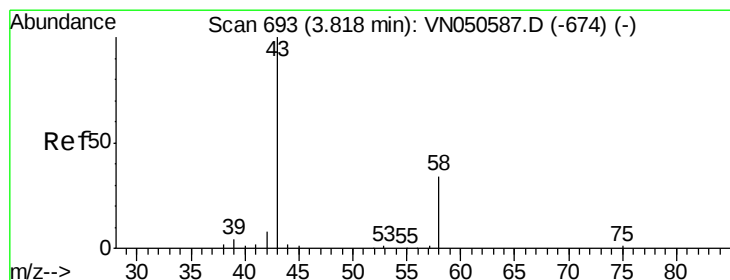
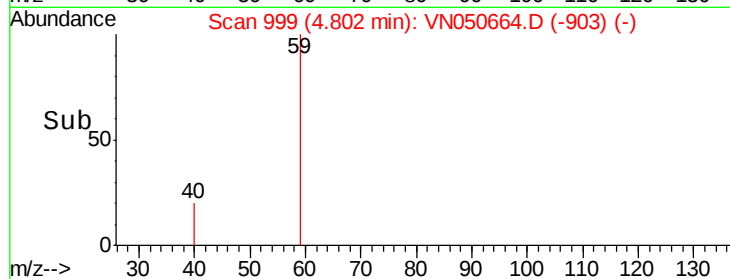
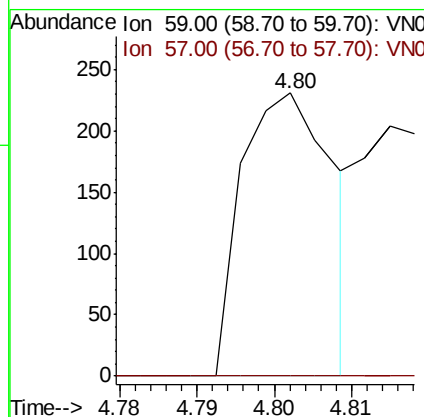
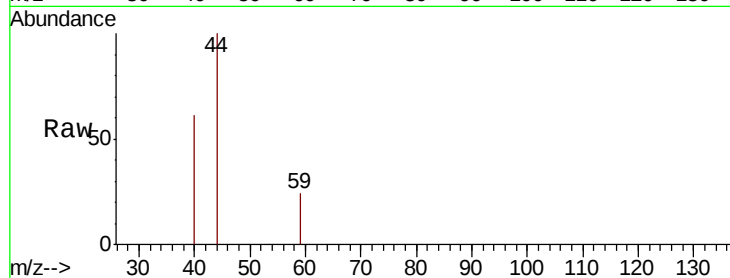


#11

Tert butyl alcohol
 Concen: 0.48 ug/l
 RT: 4.80 min Scan# 999
 Delta R.T. 0.01 min
 Lab File: VN050664.D
 Acq: 15 Aug 2018 18:56

Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055ZHE#04

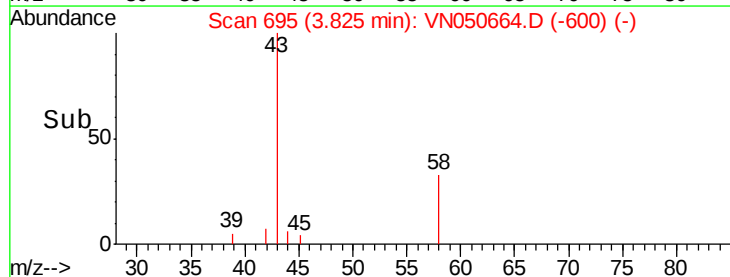
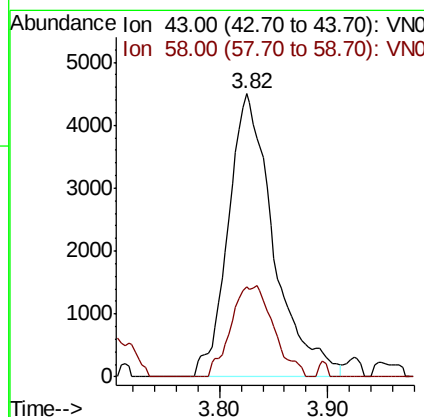
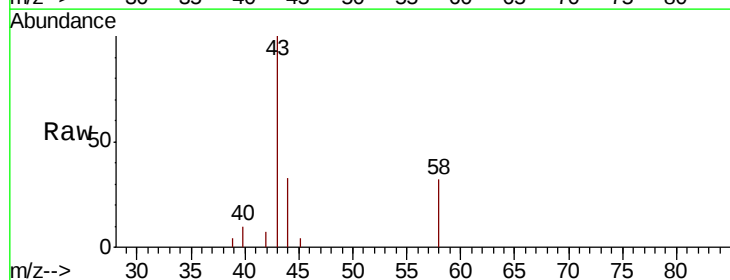
Tot Ion: 59 Resp: 189
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

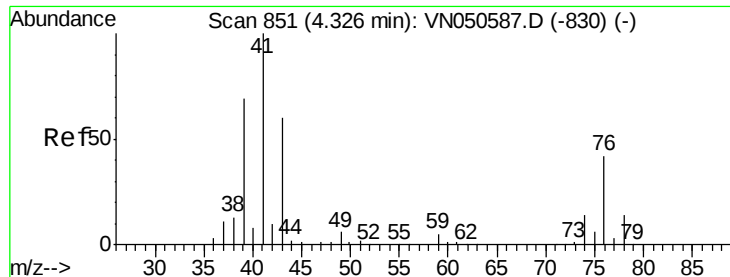


#16

Acetone
 Concen: 5.88 ug/l
 RT: 3.82 min Scan# 695
 Delta R.T. 0.01 min
 Lab File: VN050664.D
 Acq: 15 Aug 2018 18:56

Tgt Ion: 43 Resp: 13136
 Ion Ratio Lower Upper
 43 100
 58 31.7 27.1 40.7

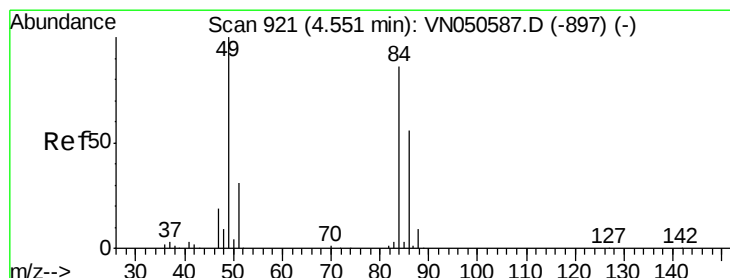
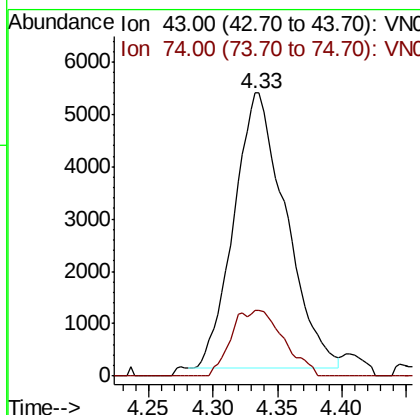
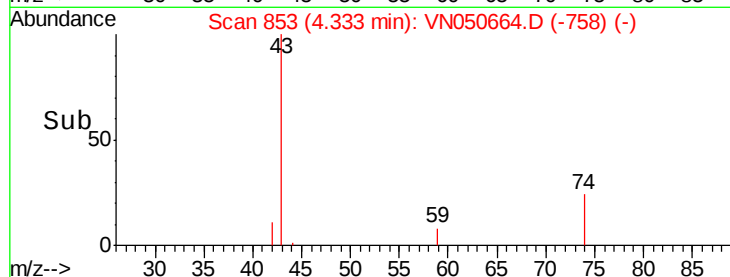
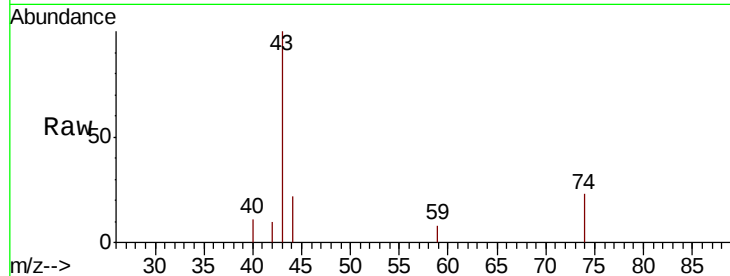




#18
Methyl Acetate
Concen: 1.96 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN050664.D
Acq: 15 Aug 2018 18:56

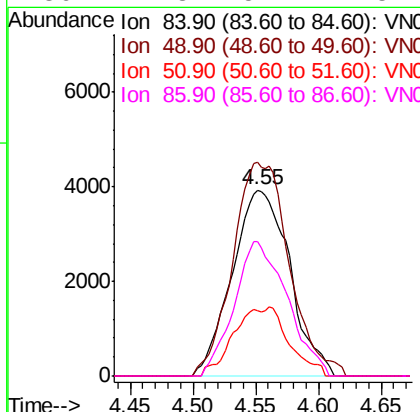
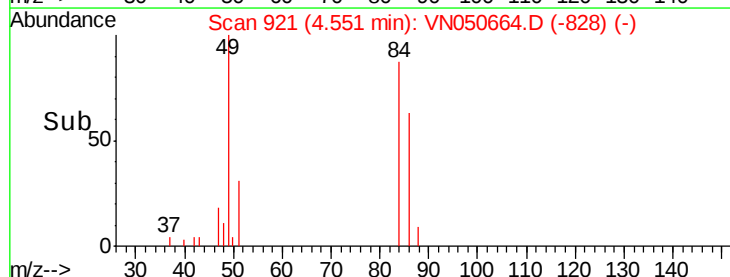
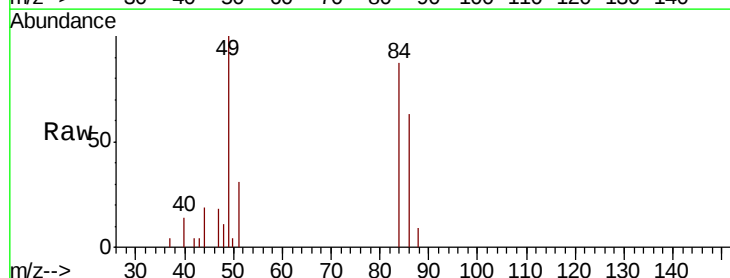
Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#04

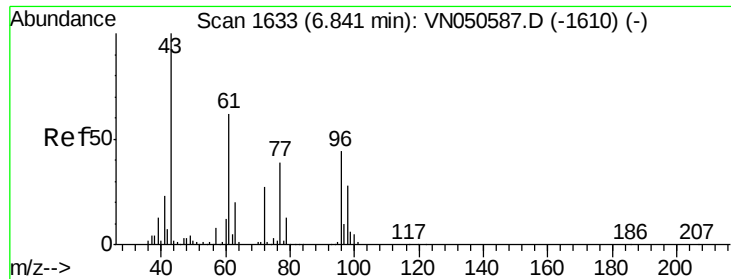
Tot Ion: 43 Resp: 14758
Ion Ratio Lower Upper
43 100
74 8.4 19.7 29.5#



#20
Methylene Chloride
Concen: 0.57 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050664.D
Acq: 15 Aug 2018 18:56

Tgt Ion: 84 Resp: 12535
Ion Ratio Lower Upper
84 100
49 114.8 92.6 138.8
51 35.2 28.6 43.0
86 72.3 52.2 78.2

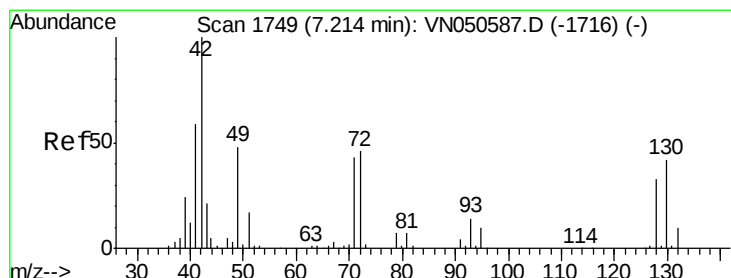
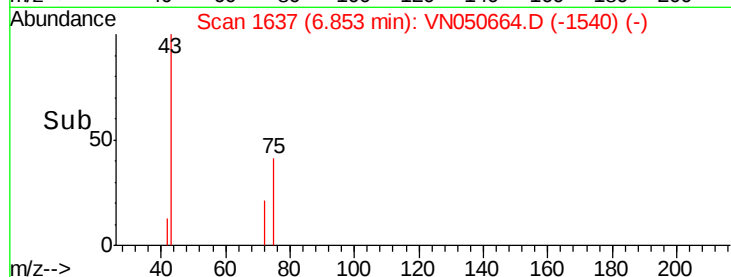
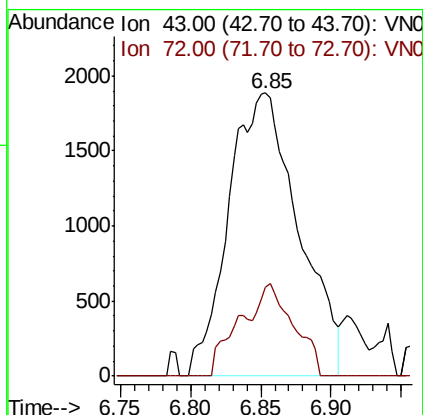
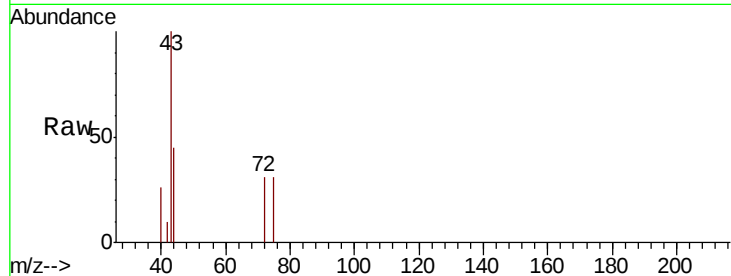




#25
2-Butanone
Concen: 2.21 ug/l
RT: 6.85 min Scan# 1637
Delta R.T. 0.01 min
Lab File: VN050664.D
Acq: 15 Aug 2018 18:56

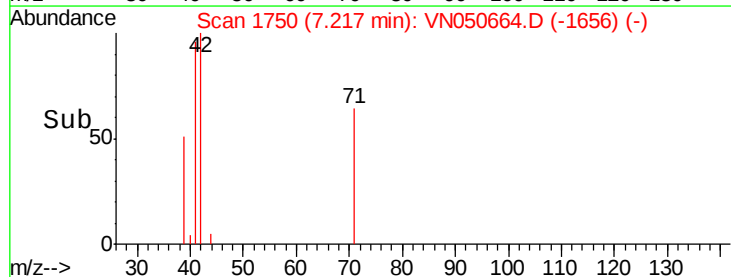
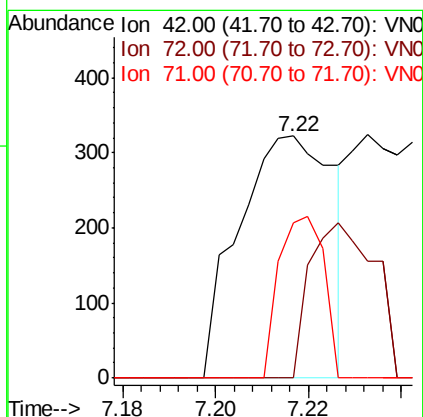
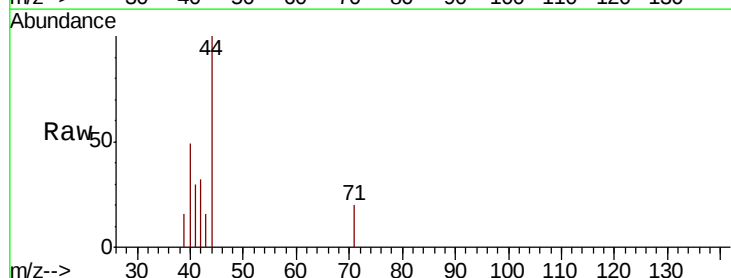
Instrument :
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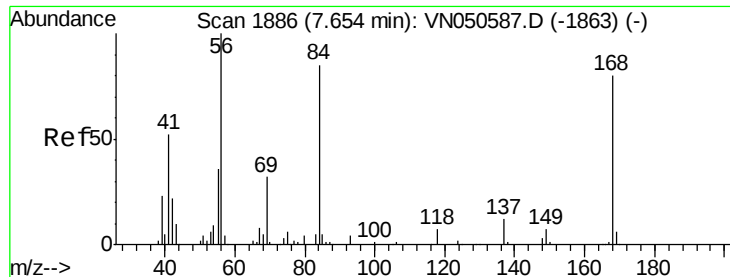
Tot Ion: 43 Resp: 6528
Ion Ratio Lower Upper
43 100
72 31.3 21.8 32.6



#29
Tetrahydrofuran
Concen: 0.30 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN050664.D
Acq: 15 Aug 2018 18:56

Tgt Ion: 42 Resp: 457
Ion Ratio Lower Upper
42 100
72 43.8 35.8 53.6
71 31.7 33.4 50.0#

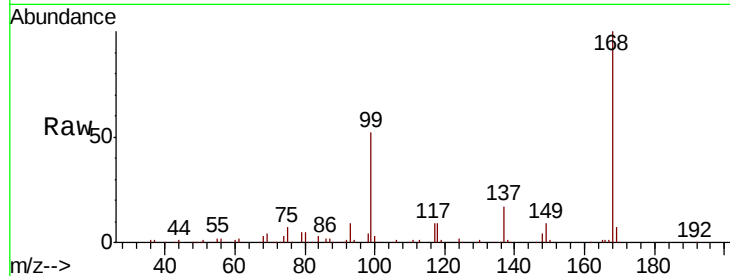




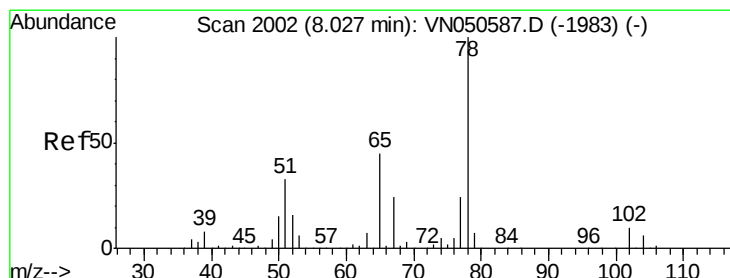
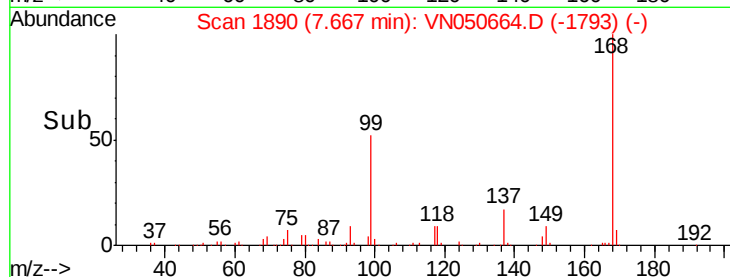
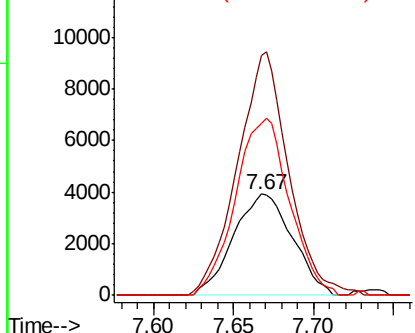
#31
Cyclohexane
Concen: 0.57 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050664.D
Acq: 15 Aug 2018 18:56

Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#04

Tot Ion: 56 Resp: 9930
Ion Ratio Lower Upper
56 100
69 237.2 25.8 38.6#
84 169.7 67.8 101.6#

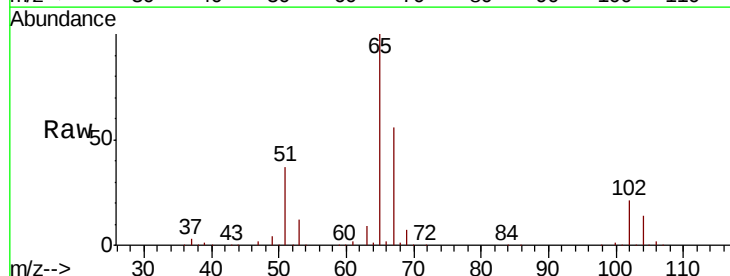


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

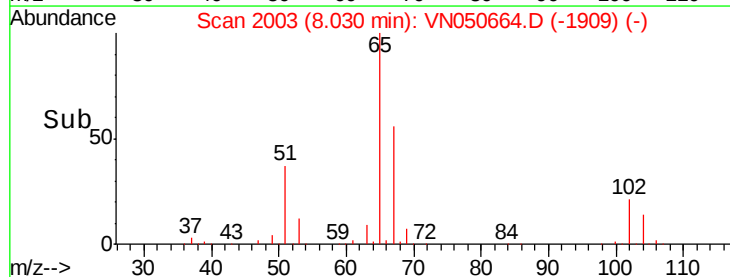
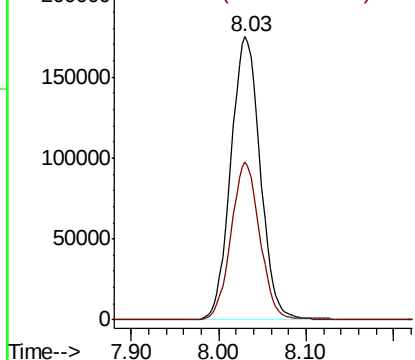


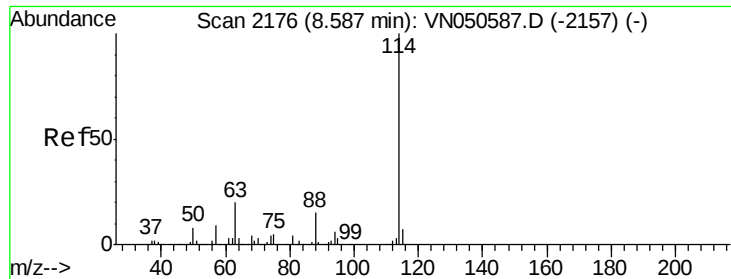
#33
1,2-Dichloroethane-d4
Concen: 56.73 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050664.D
Acq: 15 Aug 2018 18:56

Tgt Ion: 65 Resp: 409139
Ion Ratio Lower Upper
65 100
67 54.5 0.0 109.8



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

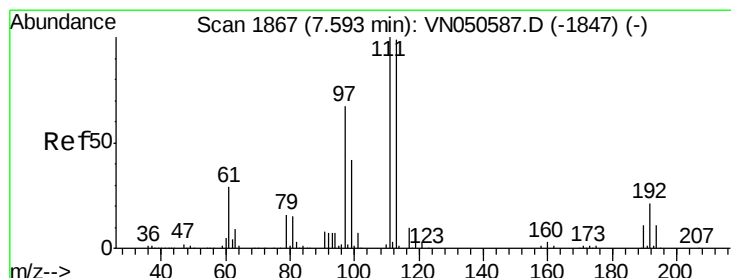
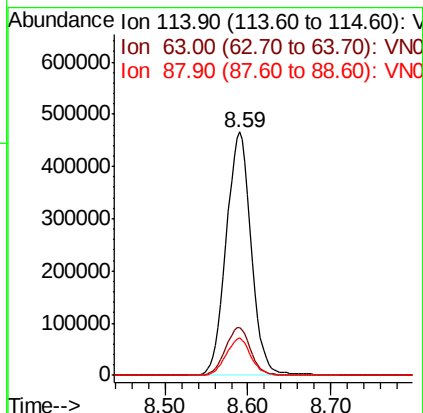
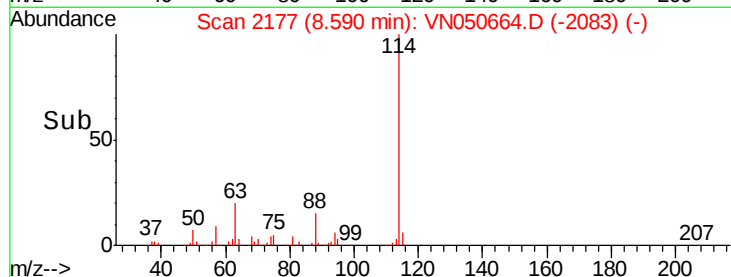
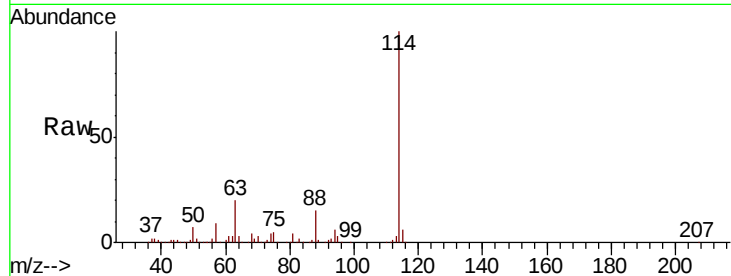




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050664.D
 Acq: 15 Aug 2018 18:56

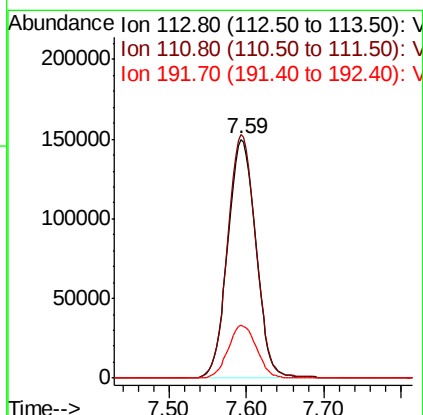
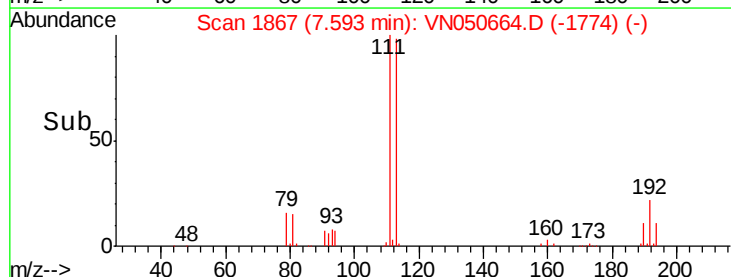
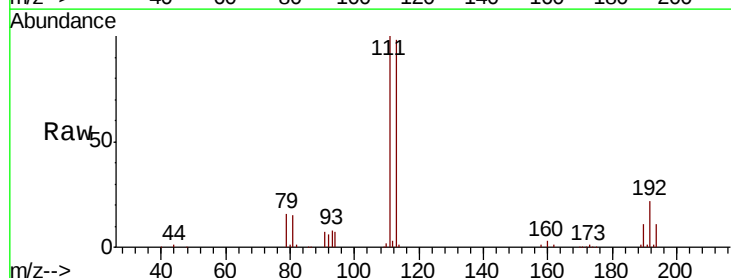
Instrument :
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 ClientSampleId :
 PB1112055ZHE#04

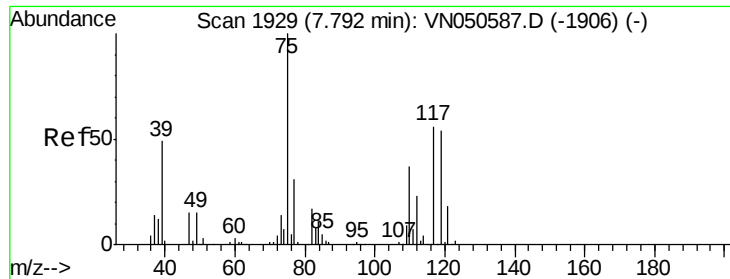
Tot Ion	Ratio	Lower	Upper
114	100		
63	19.7	0.0	40.0
88	15.2	0.0	30.8



#35
 Dibromofluoromethane
 Concen: 48.45 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050664.D
 Acq: 15 Aug 2018 18:56

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.6	81.0	121.6
192	22.1	17.6	26.4





#36

1,1-Dichloropropene

Concen: 3.64 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN050664.D

Acq: 15 Aug 2018 18:56

Instrument :

MSVOA_N

ClientSampleId :

PB1112055ZHE#04

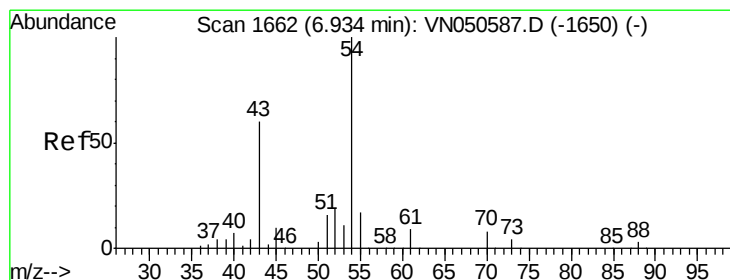
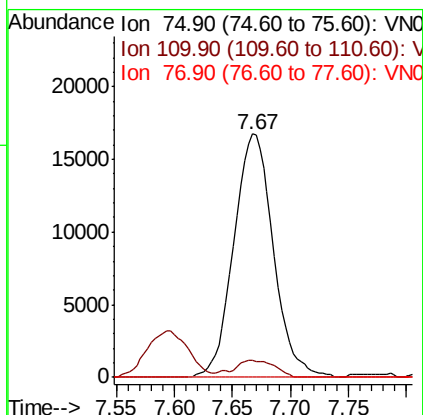
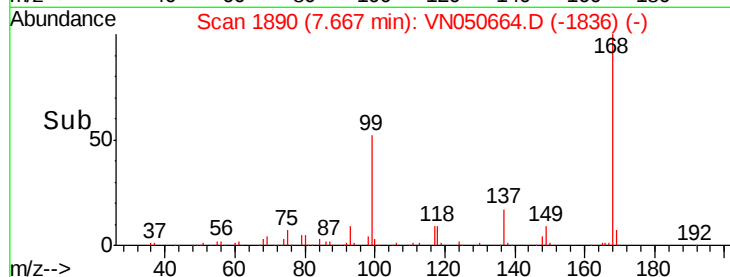
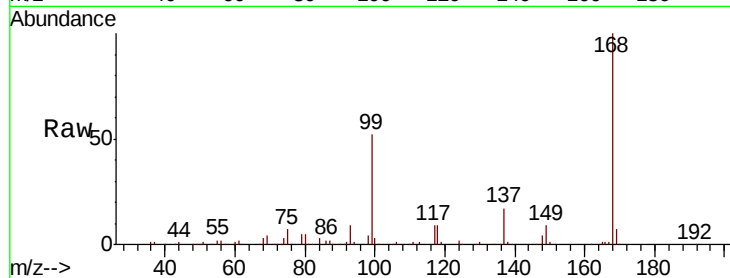
Tot Ion: 75 Resp: 39647

Ion Ratio Lower Upper

75 100

110 7.2 18.3 54.9#

77 0.0 25.0 37.4#



#37

Ethyl Acetate

Concen: 1.06 ug/l

RT: 6.85 min Scan# 1637

Delta R.T. -0.08 min

Lab File: VN050664.D

Acq: 15 Aug 2018 18:56

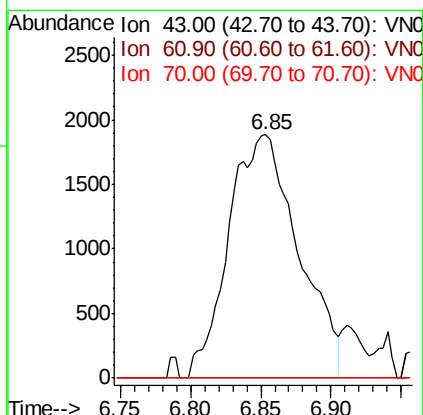
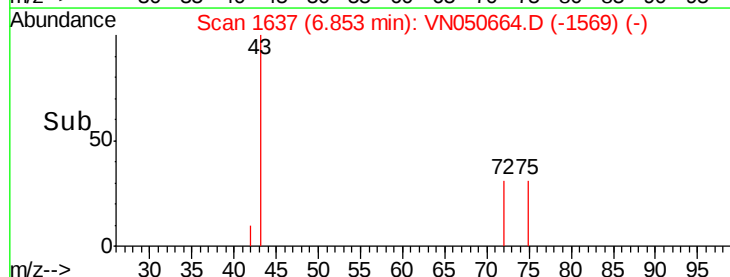
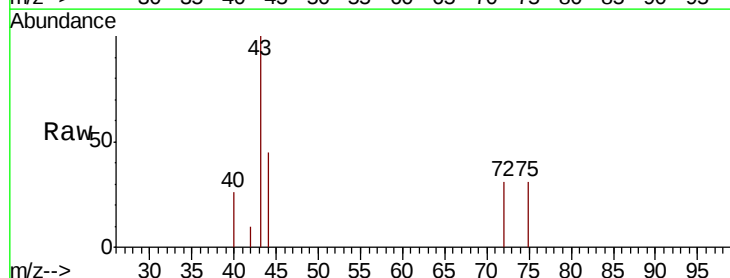
Tgt Ion: 43 Resp: 6528

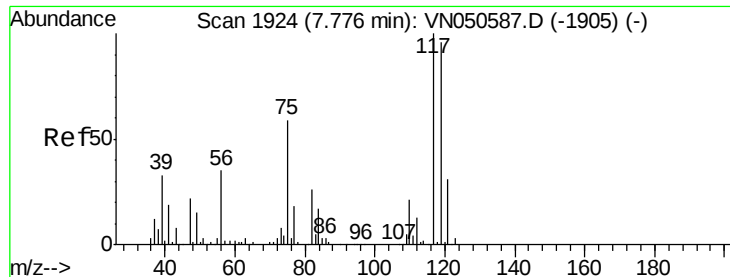
Ion Ratio Lower Upper

43 100

61 0.0 12.0 18.0#

70 0.0 8.5 12.7#

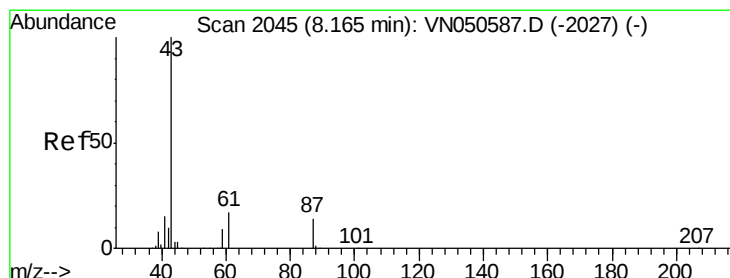
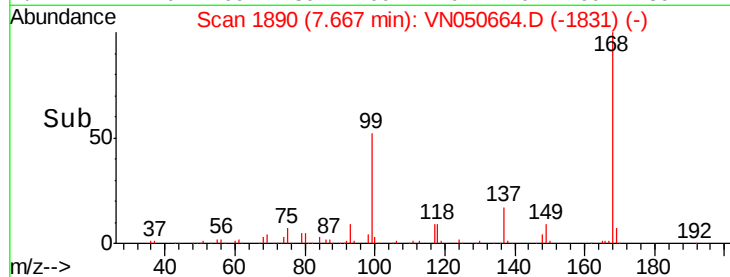
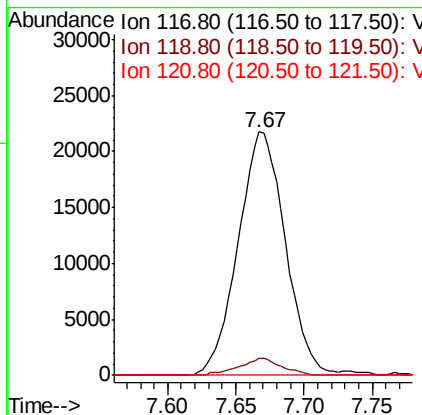
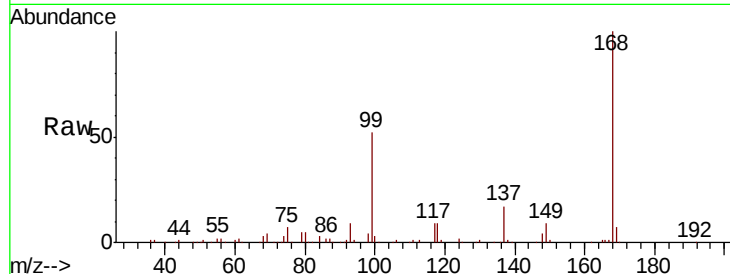




#38
Carbon Tetrachloride
Concen: 4.61 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050664.D
Acq: 15 Aug 2018 18:56

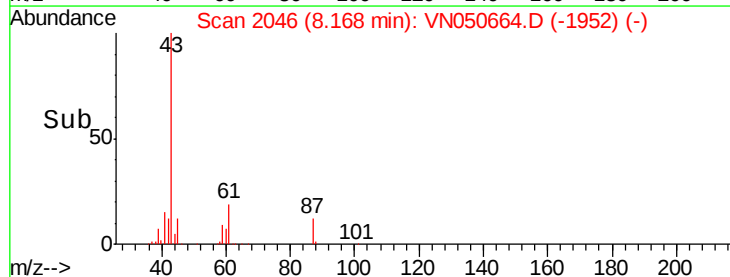
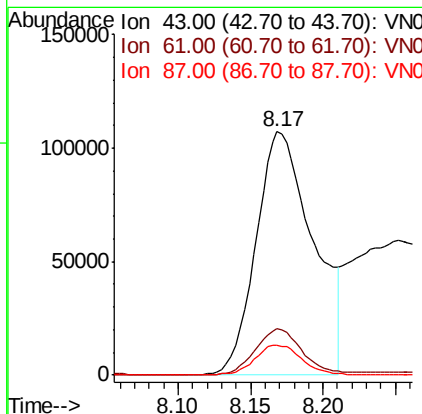
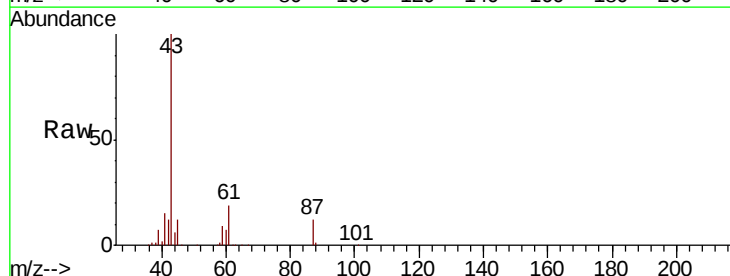
Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#04

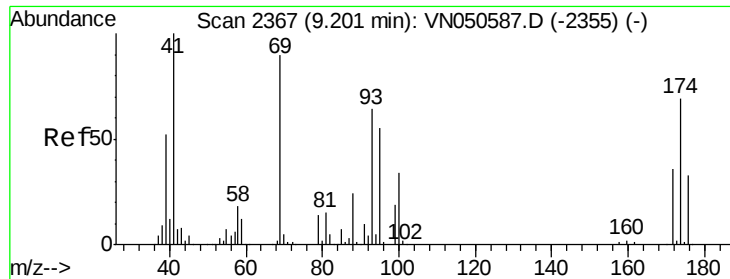
Tot Ion:117 Resp: 52100
Ion Ratio Lower Upper
117 100
119 6.9 76.6 115.0#
121 0.0 25.0 37.6#



#43
Isopropyl Acetate
Concen: 26.20 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050664.D
Acq: 15 Aug 2018 18:56

Tgt Ion: 43 Resp: 293885
Ion Ratio Lower Upper
43 100
61 16.3 16.2 24.2
87 10.3 10.9 16.3#

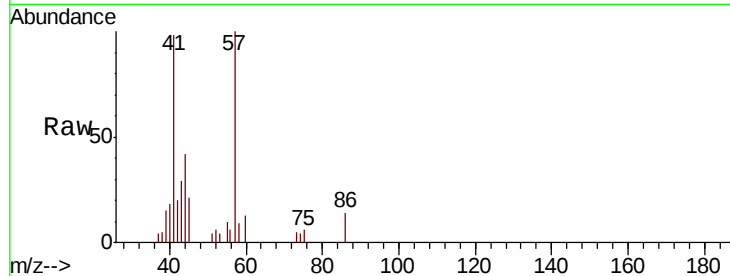




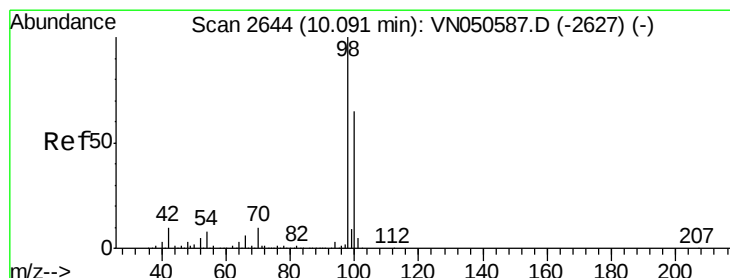
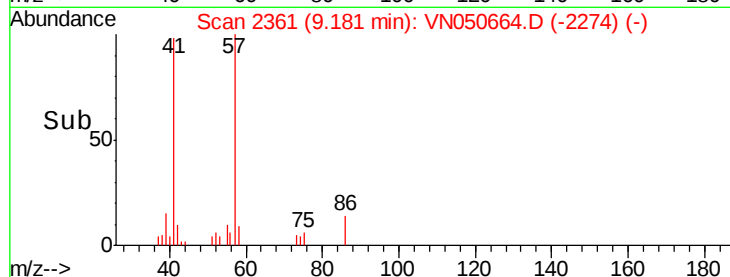
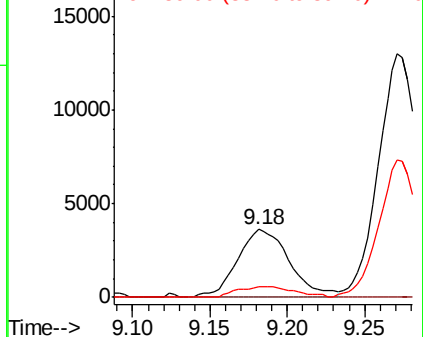
#48
Methyl methacrylate
Concen: 1.50 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN050664.D
Acq: 15 Aug 2018 18:56

Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#04

Tot Ion: 41 Resp: 8491
Ion Ratio Lower Upper
41 100
69 0.0 73.4 110.0#
39 17.3 43.0 64.6#

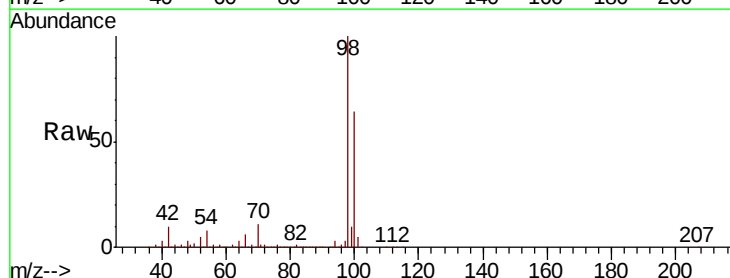


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

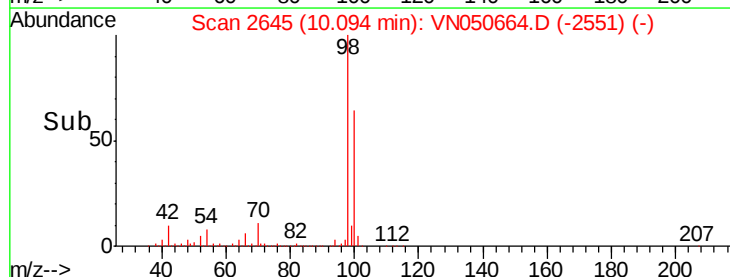
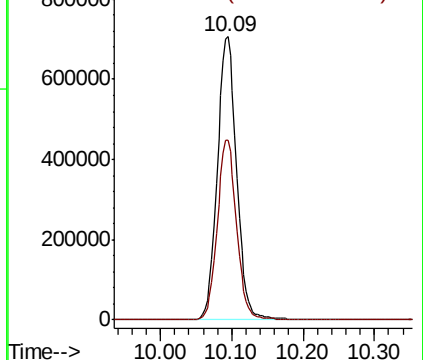


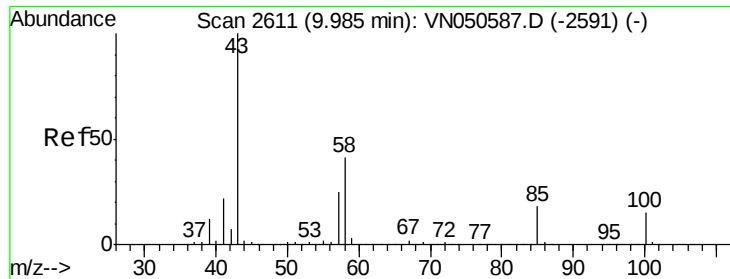
#50
Toluene-d8
Concen: 44.98 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050664.D
Acq: 15 Aug 2018 18:56

Tgt Ion: 98 Resp: 1322070
Ion Ratio Lower Upper
98 100
100 63.3 51.8 77.8



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





#51

4-Methyl-2-Pentanone

Concen: 0.21 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN050664.D

Acq: 15 Aug 2018 18:56

Instrument :

MSVOA_N

ClientSampleId :

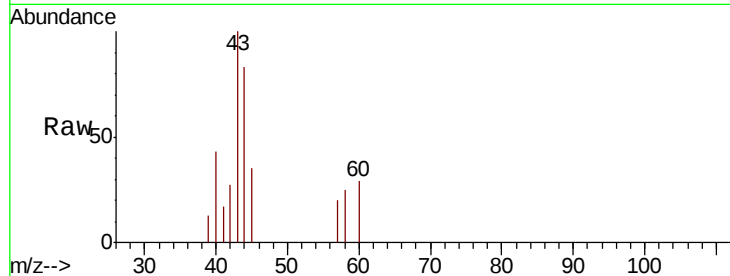
PB1112055ZHE#04

Tot Ion: 43 Resp: 1630

Ion Ratio Lower Upper

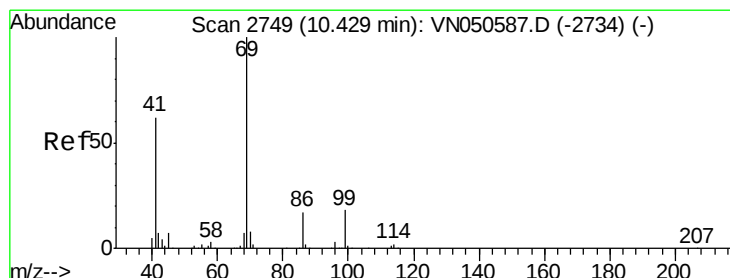
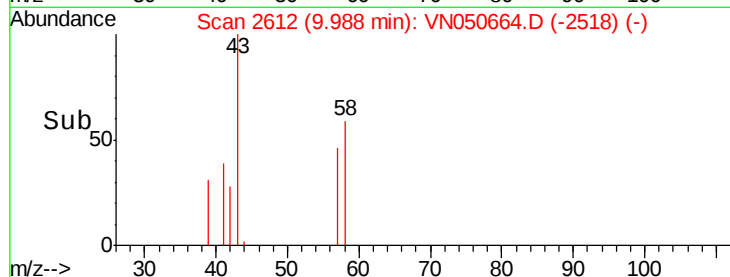
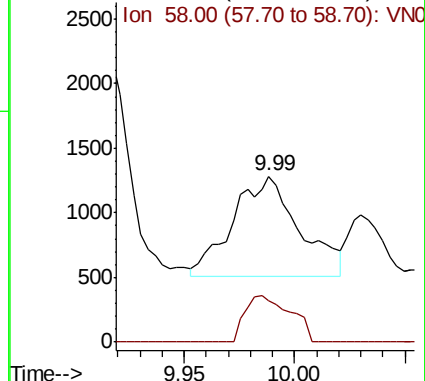
43 100

58 31.7 32.5 48.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#56

Ethyl methacrylate

Concen: 2.13 ug/l

RT: 10.22 min Scan# 2685

Delta R.T. -0.20 min

Lab File: VN050664.D

Acq: 15 Aug 2018 18:56

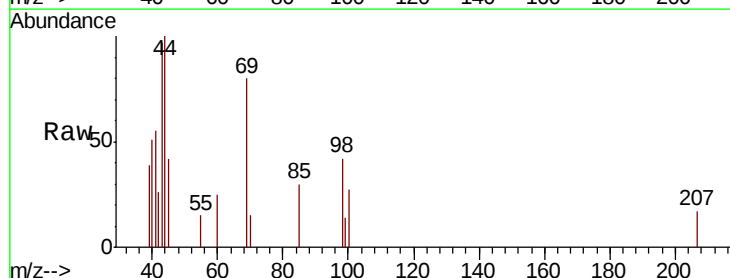
Tgt Ion: 69 Resp: 2246

Ion Ratio Lower Upper

69 100

41 59.4 49.7 74.5

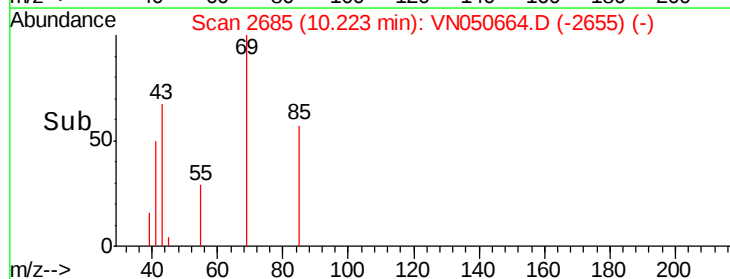
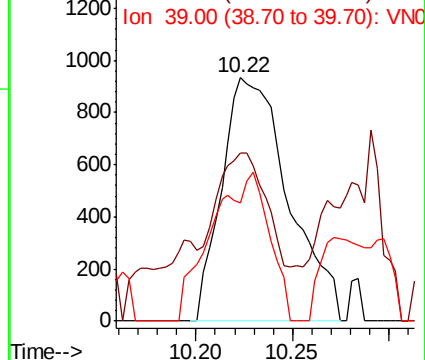
39 52.7 24.2 36.2#

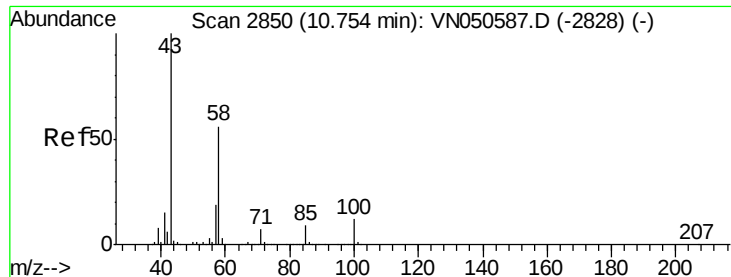


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

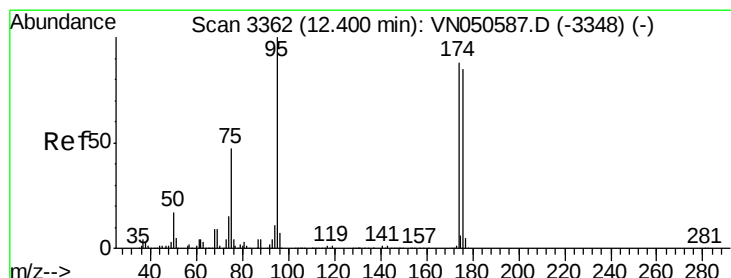
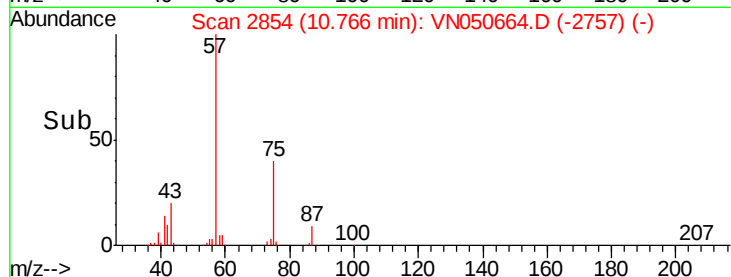
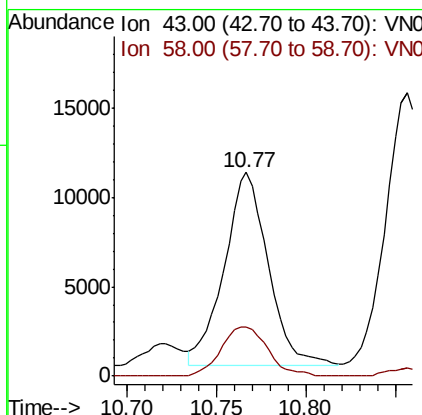
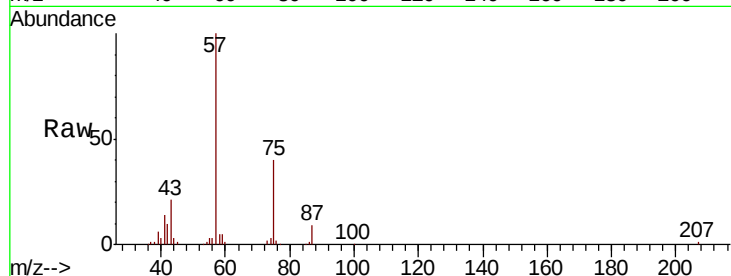




#59
2-Hexanone
Concen: 3.77 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN050664.D
Acq: 15 Aug 2018 18:56

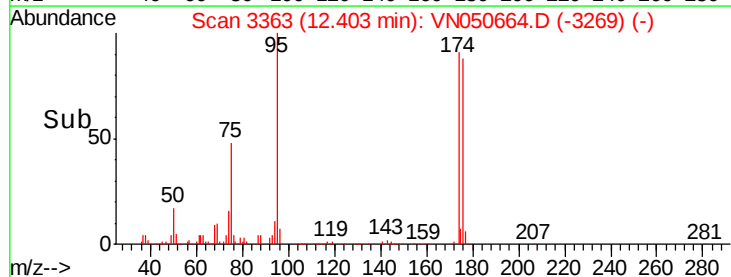
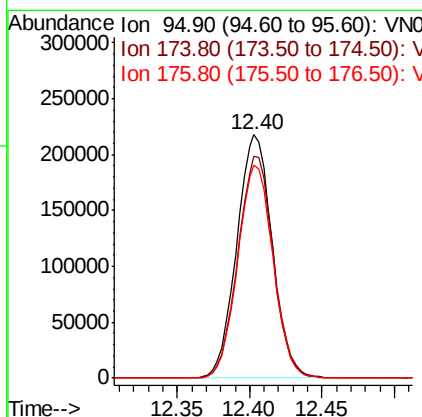
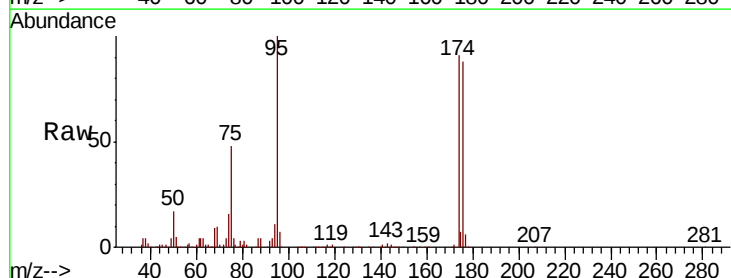
Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#04

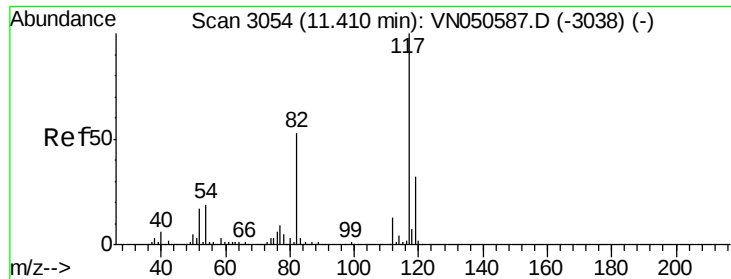
Tot Ion: 43 Resp: 18448
Ion Ratio Lower Upper
43 100
58 27.4 28.0 84.0#



#62
4-Bromofluorobenzene
Concen: 37.98 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050664.D
Acq: 15 Aug 2018 18:56

Tgt Ion: 95 Resp: 368756
Ion Ratio Lower Upper
95 100
174 91.9 0.0 177.8
176 87.8 0.0 175.0

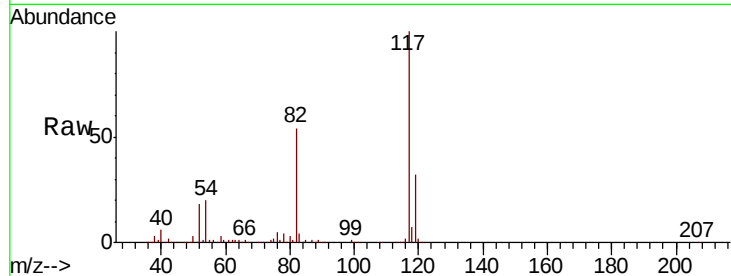




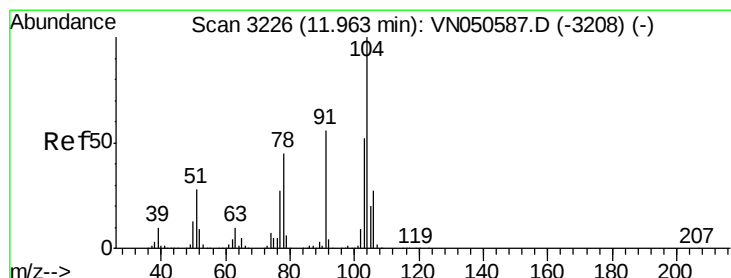
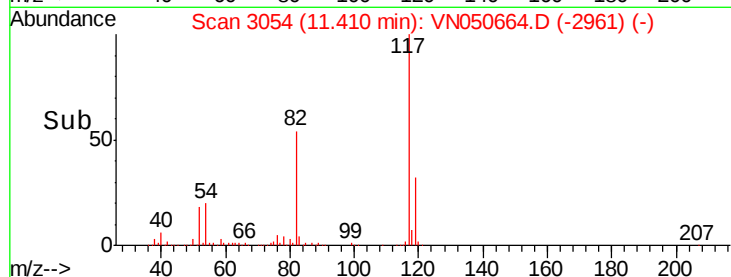
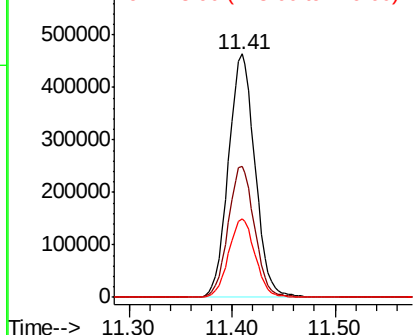
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050664.D
Acq: 15 Aug 2018 18:56

Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#04

Tot Ion:117 Resp: 830538
Ion Ratio Lower Upper
117 100
82 54.0 42.4 63.6
119 32.1 25.8 38.8

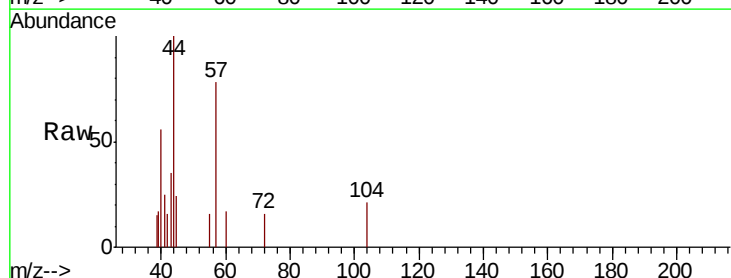


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN0
Ion 118.90 (118.60 to 119.60): V

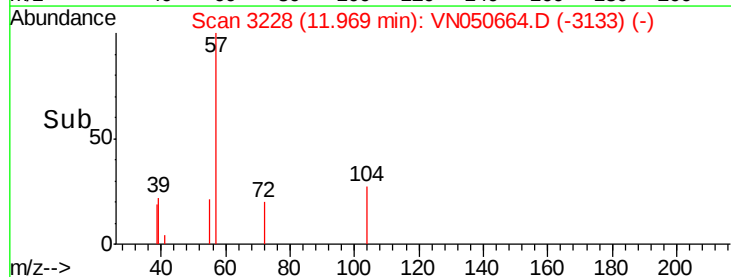
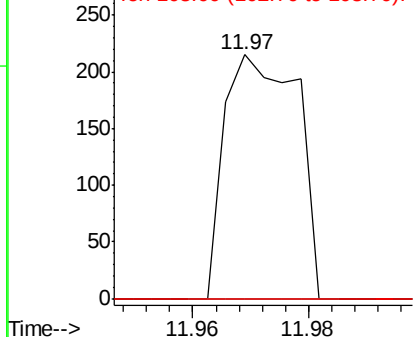


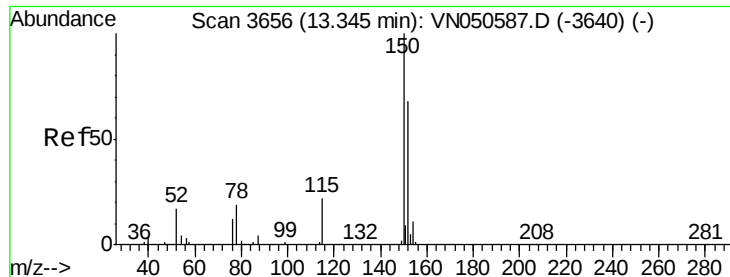
#70
Styrene
Concen: 0.95 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.01 min
Lab File: VN050664.D
Acq: 15 Aug 2018 18:56

Tgt Ion:104 Resp: 187
Ion Ratio Lower Upper
104 100
78 0.0 39.1 58.7#
103 0.0 44.9 67.3#



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN0
Ion 103.00 (102.70 to 103.70): 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: VN050664.D

Acq: 15 Aug 2018 18:56

Instrument :

MSVOA_N

ClientSampleId :

PB1112055ZHE#04

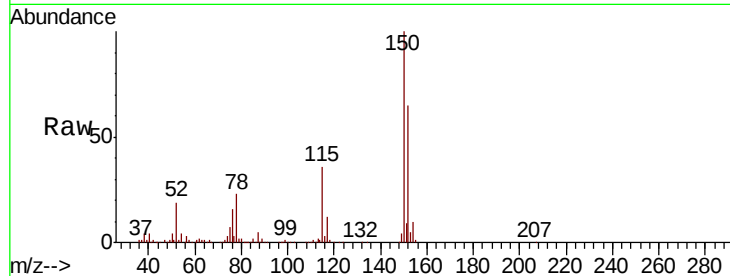
Tot Ion:152 Resp: 309701

Ion Ratio Lower Upper

152 100

115 55.1 28.1 84.2

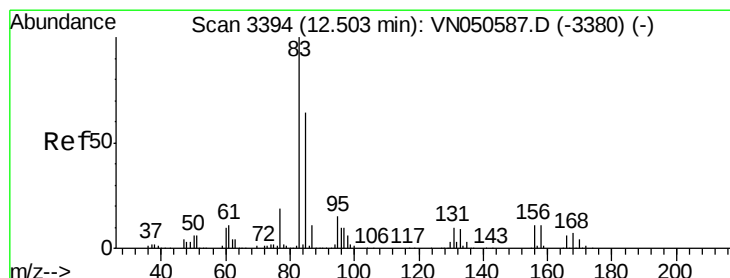
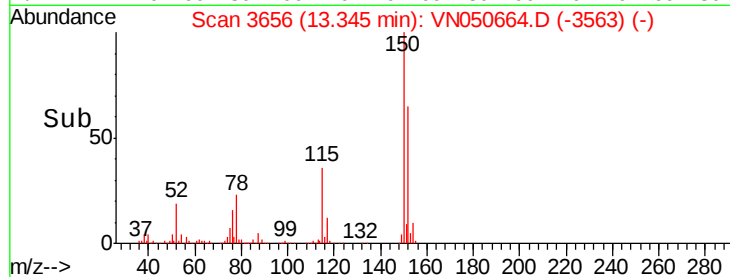
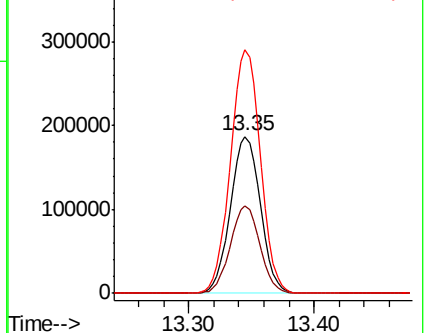
150 155.3 0.0 347.8



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: 12.55 min Scan# 3408

Delta R.T. 0.05 min

Lab File: VN050664.D

Acq: 15 Aug 2018 18:56

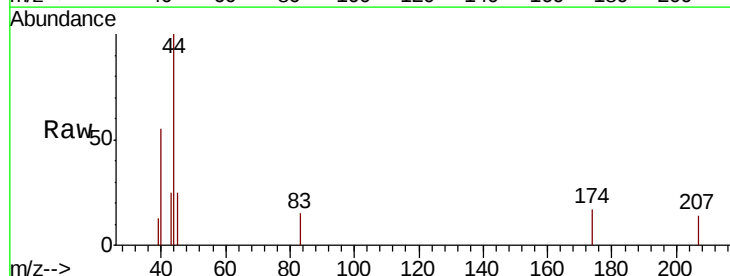
Tgt Ion: 83 Resp: 61

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.9#

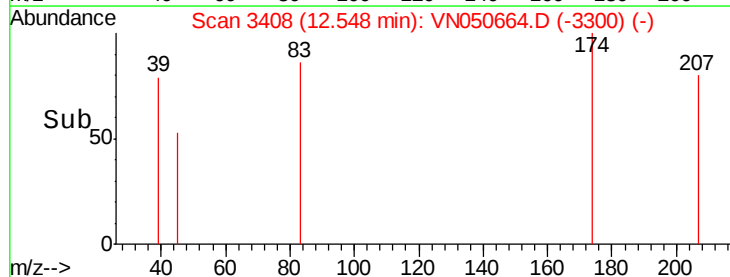
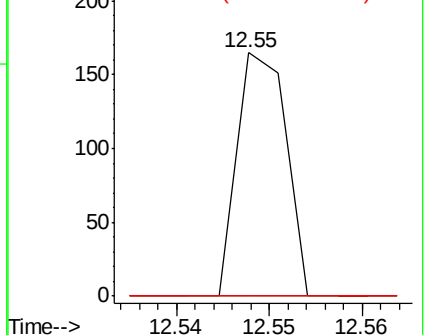
85 0.0 32.1 96.5#

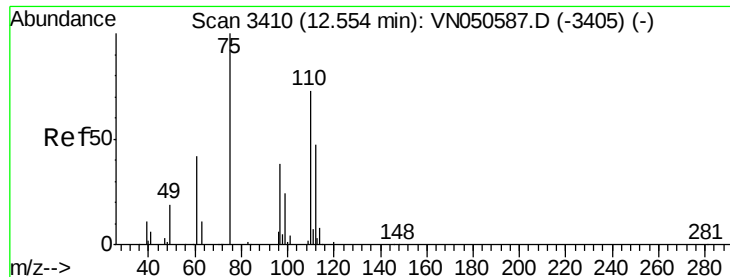


Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VN0





#76

1,2,3-Trichloropropane

Concen: 34.99 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050664.D

Acq: 15 Aug 2018 18:56

Instrument :

MSVOA_N

ClientSampleId :

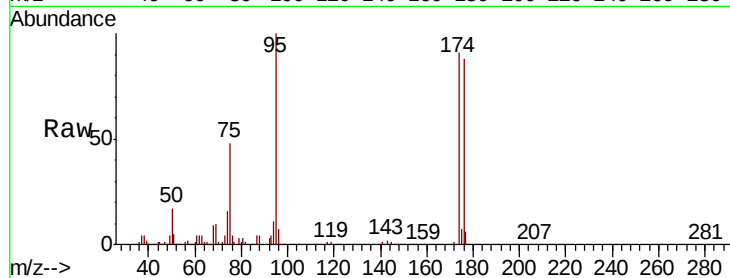
PB1112055ZHE#04

Tot Ion: 75 Resp: 176637

Ion Ratio Lower Upper

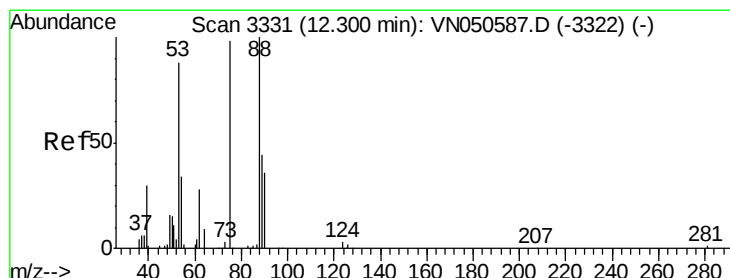
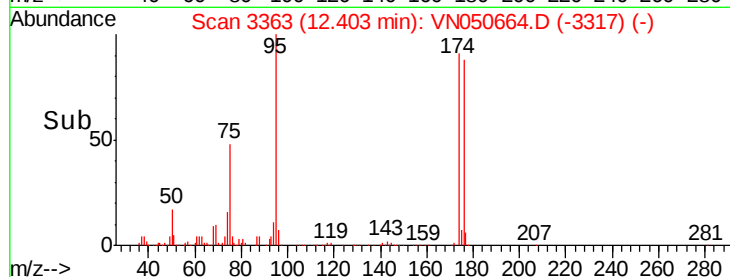
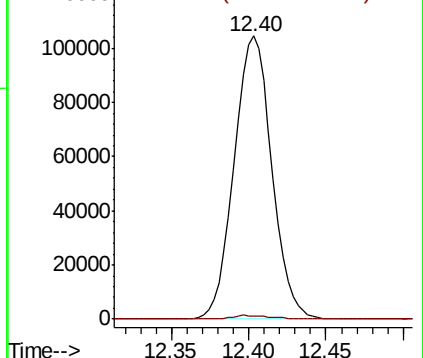
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 126.80 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050664.D

Acq: 15 Aug 2018 18:56

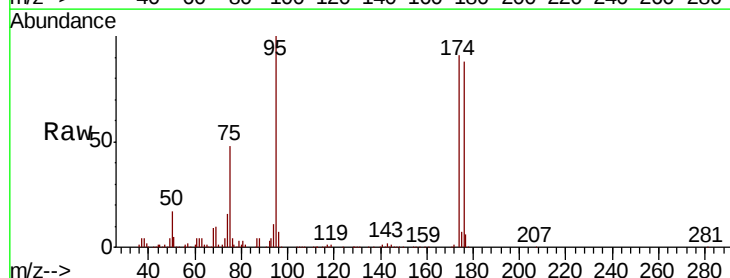
Tgt Ion: 75 Resp: 176637

Ion Ratio Lower Upper

75 100

53 0.3 72.2 108.2#

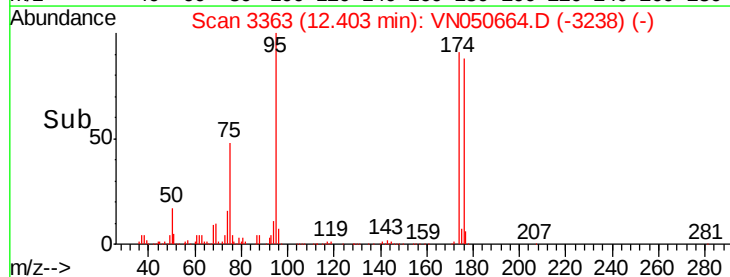
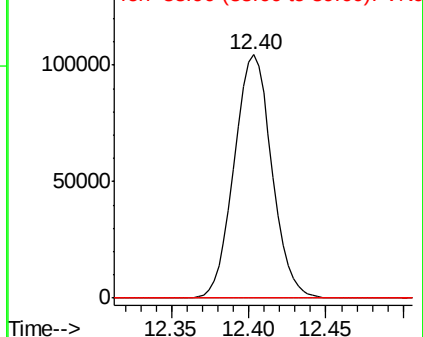
89 0.0 36.3 54.5#

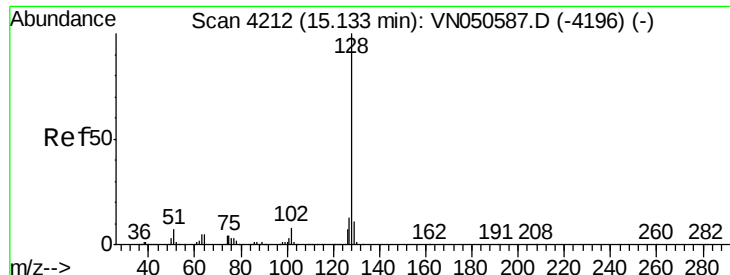


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: 3.86 ug/l

RT: 15.15 min Scan# 4216

Delta R.T. 0.01 min

Lab File: VN050664.D

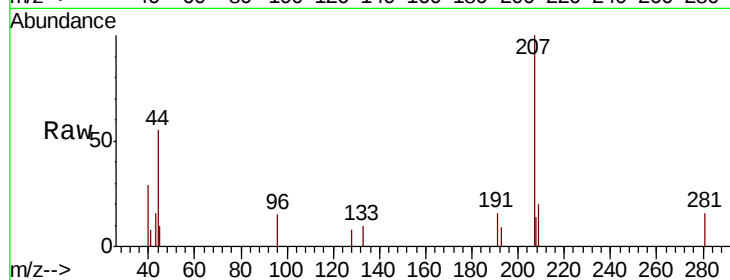
Acq: 15 Aug 2018 18:56

Instrument :

MSVOA_N

ClientSampleId :

PB1112055ZHE#04



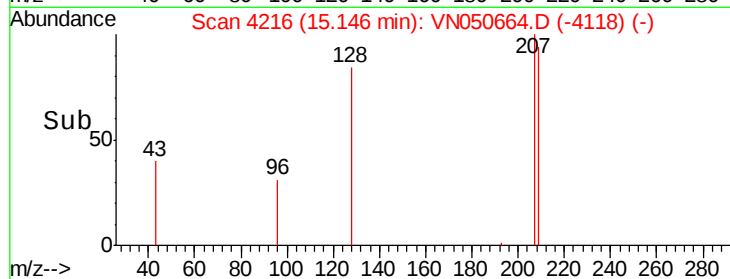
Tot Ion:128 Resp: 30

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.5 12.7#



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

