

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081518\
 Data File : VN050665.D
 Acq On : 15 Aug 2018 19:21
 Operator : MD\SY
 Sample : PB1112055ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055ZHE#05

Quant Time: Aug 16 01:32:33 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	601613	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1036478	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	890383	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	324164	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	424633	56.00	ug/l	0.00
Spiked Amount			Recovery	=	112.00%	
35) Dibromofluoromethane	7.59	113	396852	47.96	ug/l	0.00
Spiked Amount			Recovery	=	95.92%	
50) Toluene-d8	10.09	98	1409010	45.24	ug/l	0.00
Spiked Amount			Recovery	=	90.48%	
62) 4-Bromofluorobenzene	12.40	95	393449	38.24	ug/l	0.00
Spiked Amount			Recovery	=	76.48%	

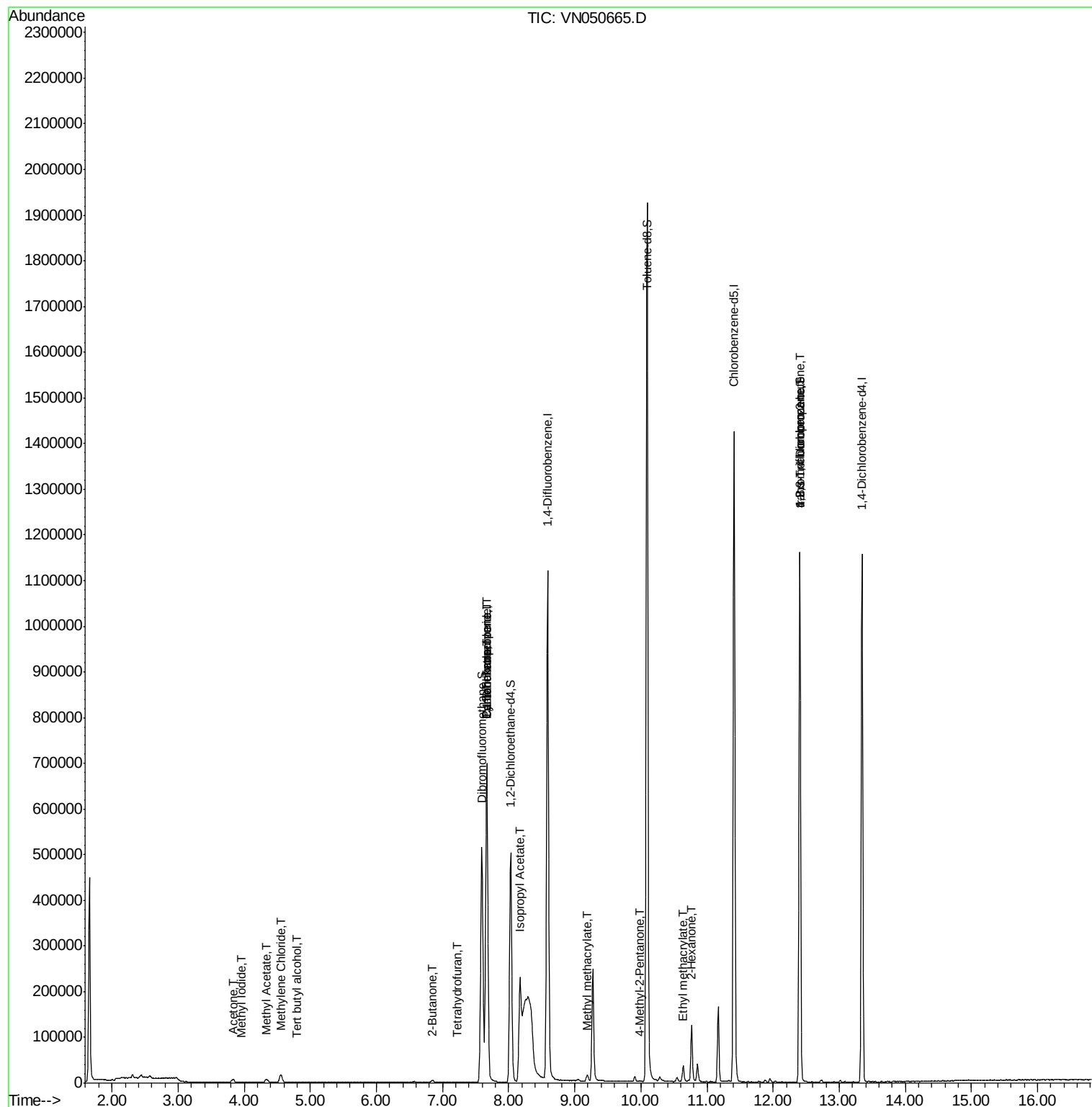
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2508	Below Cal	#	84
5) Bromomethane	2.57	94	3145	Below Cal		93
6) Chloroethane	2.69	64	132	Below Cal	#	43
10) Methyl Iodide	3.96	142	571	7.05	ug/l	# 66
11) Tert butyl alcohol	4.80	59	198	0.48	ug/l	# 72
16) Acetone	3.83	43	12602	5.24	ug/l	97
18) Methyl Acetate	4.34	43	14549	1.77	ug/l	# 76
20) Methylene Chloride	4.55	84	13191	0.57	ug/l	89
25) 2-Butanone	6.85	43	6825	2.20	ug/l	97
29) Tetrahydrofuran	7.22	42	605	0.37	ug/l	# 55
31) Cyclohexane	7.67	56	10905	0.61	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	42814	3.71	ug/l	# 48
38) Carbon Tetrachloride	7.67	117	53699	4.49	ug/l	# 17
43) Isopropyl Acetate	8.17	43	292320	24.59	ug/l	# 92
48) Methyl methacrylate	9.18	41	8064	1.35	ug/l	# 19
51) 4-Methyl-2-Pentanone	9.99	43	1912	0.24	ug/l	# 65
56) Ethyl methacrylate	10.64	69	388	1.94	ug/l	# 1
59) 2-Hexanone	10.77	43	17437	3.36	ug/l	65
75) 1,1,2,2-Tetrachloroethane	12.42	83	62	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	188210	35.64	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	188210	129.08	ug/l	# 13

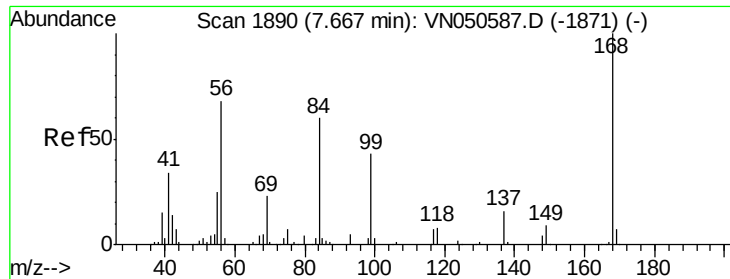
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN050665.D

Acq: 15 Aug 2018 19:21

Instrument :

MSVOA_N

ClientSampleId :

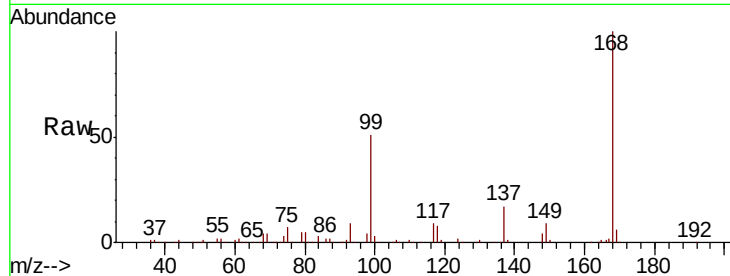
PB1112055ZHE#05

Tot Ion:168 Resp: 601613

Ion Ratio Lower Upper

168 100

99 50.8 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): VN050587.D (-1871) (-)

Ion 98.90 (98.60 to 99.60): VN050587.D (-1871) (-)

7.67

250000

200000

150000

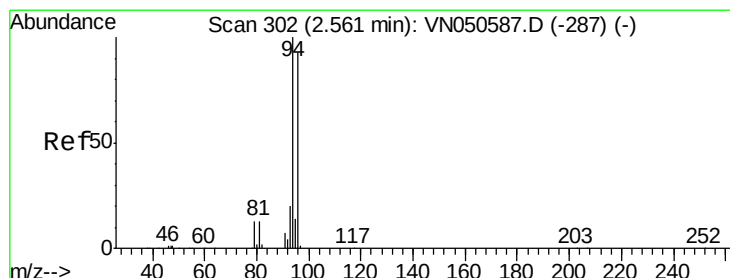
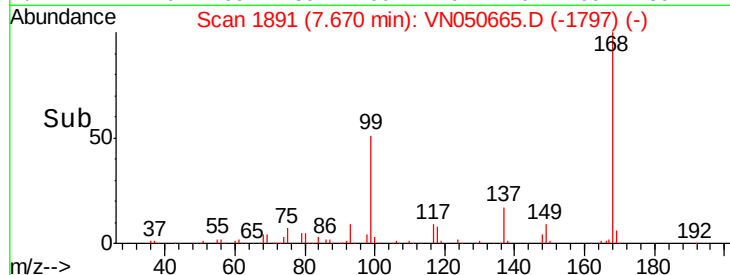
100000

50000

0

7.60 7.70

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050665.D

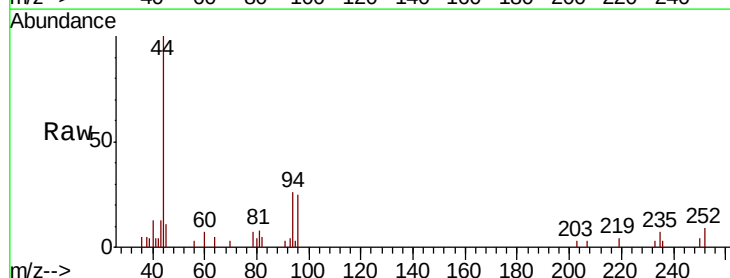
Acq: 15 Aug 2018 19:21

Tgt Ion: 94 Resp: 3145

Ion Ratio Lower Upper

94 100

96 99.0 74.0 111.0



Abundance Ion 93.90 (93.60 to 94.60): VN050587.D (-287) (-)

Ion 95.90 (95.60 to 96.60): VN050587.D (-287) (-)

2.57

1500

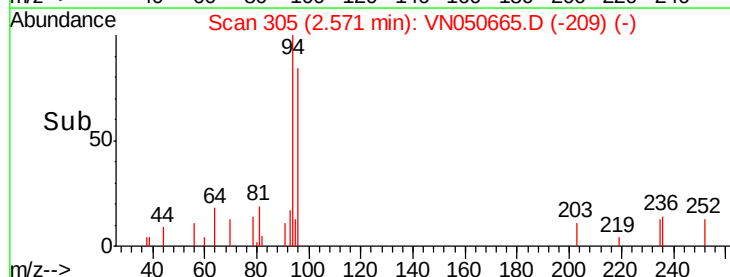
1000

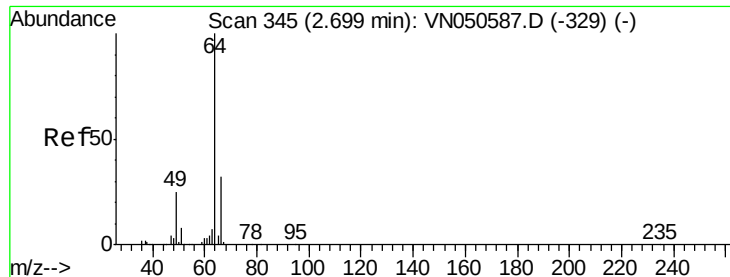
500

0

2.50 2.55 2.60

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.69 min Scan# 343

Delta R.T. -0.01 min

Lab File: VN050665.D

Acq: 15 Aug 2018 19:21

Instrument :

MSVOA_N

ClientSampleId :

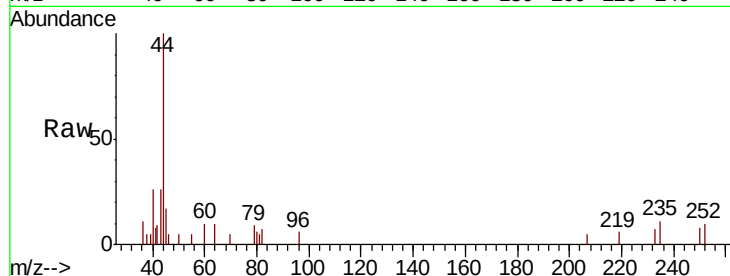
PB1112055ZHE#05

Tot Ion: 64 Resp: 132

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

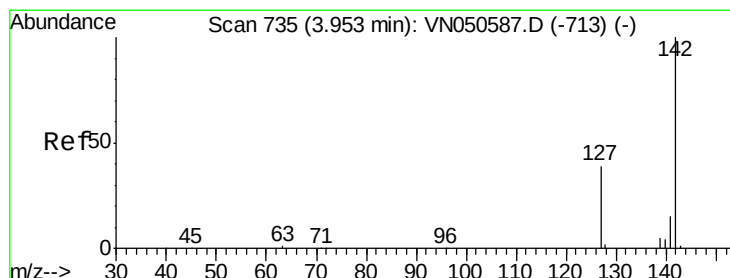
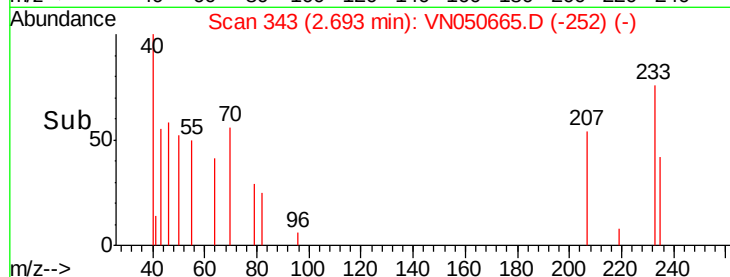
300

200

100

0

Time-->



#10

Methyl Iodide

Concen: 7.05 ug/l

RT: 3.96 min Scan# 736

Delta R.T. 0.00 min

Lab File: VN050665.D

Acq: 15 Aug 2018 19:21

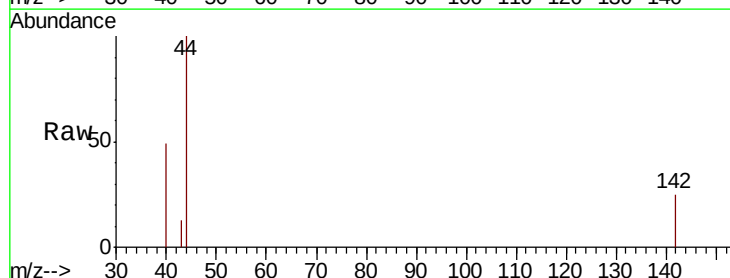
Tgt Ion: 142 Resp: 571

Ion Ratio Lower Upper

142 100

127 19.6 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

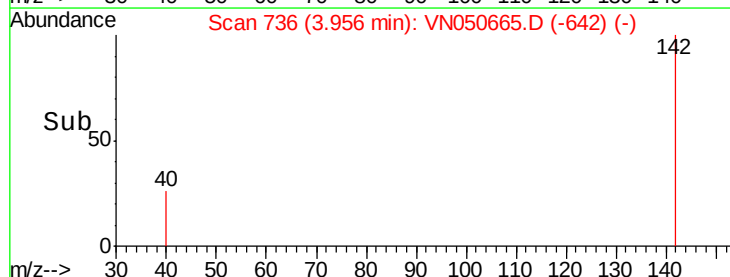
300

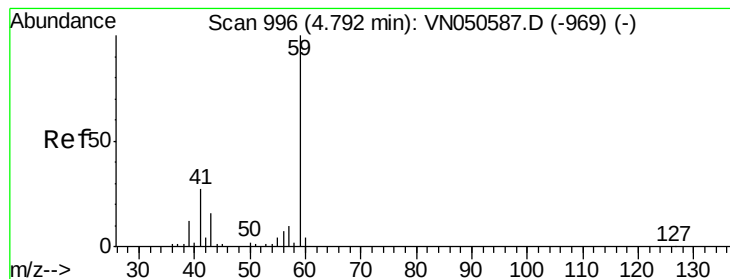
200

100

0

Time-->



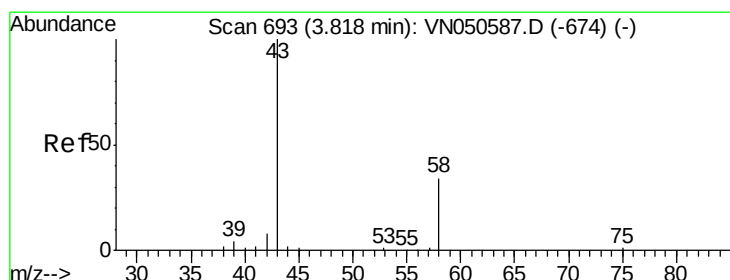
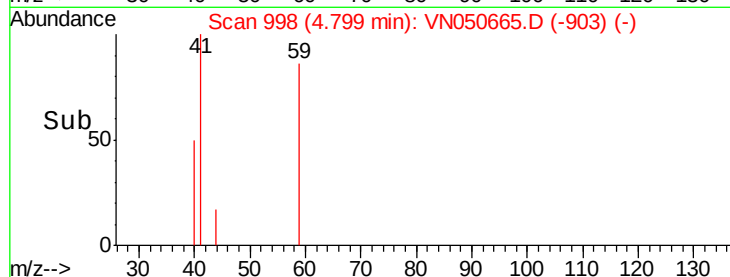
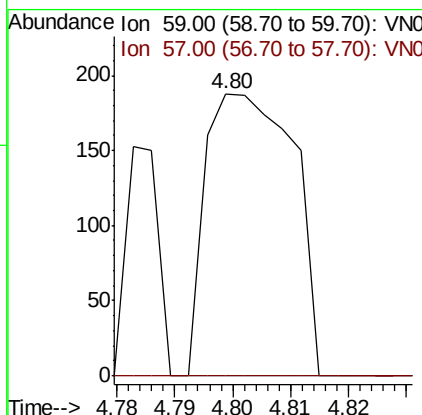
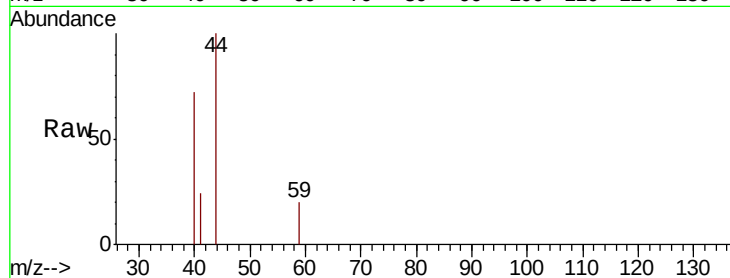


#11

Tert butyl alcohol
 Concen: 0.48 ug/l
 RT: 4.80 min Scan# 998
 Delta R.T. 0.01 min
 Lab File: VN050665.D
 Acq: 15 Aug 2018 19:21

Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055ZHE#05

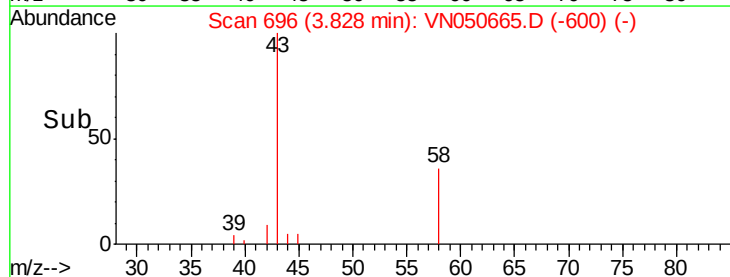
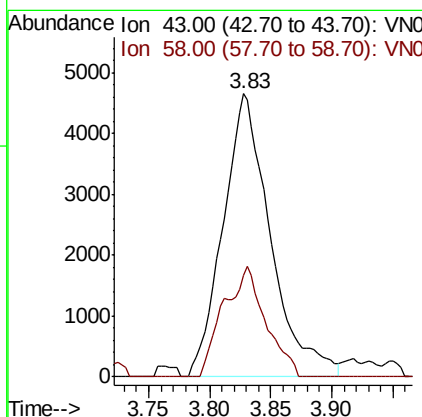
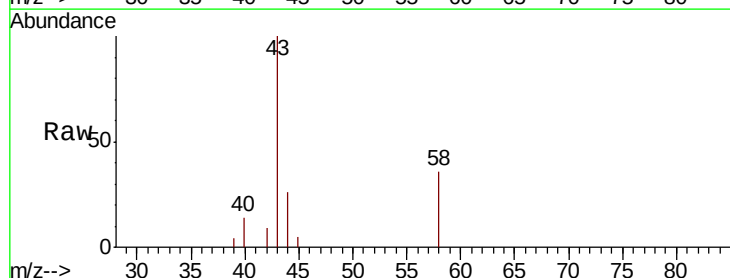
Tot Ion: 59 Resp: 198
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#

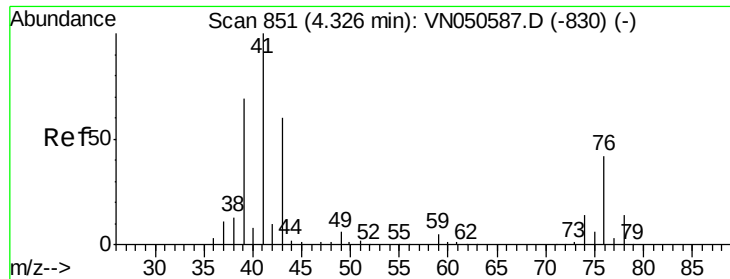


#16

Acetone
 Concen: 5.24 ug/l
 RT: 3.83 min Scan# 696
 Delta R.T. 0.01 min
 Lab File: VN050665.D
 Acq: 15 Aug 2018 19:21

Tgt Ion: 43 Resp: 12602
 Ion Ratio Lower Upper
 43 100
 58 35.8 27.1 40.7

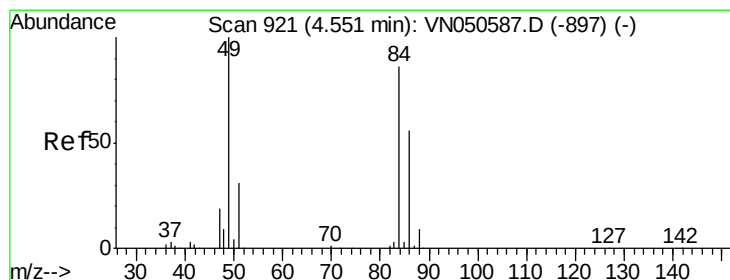
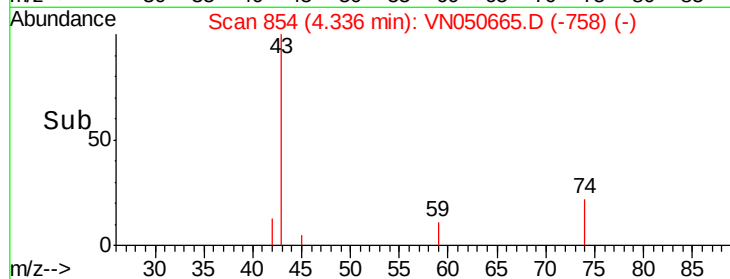
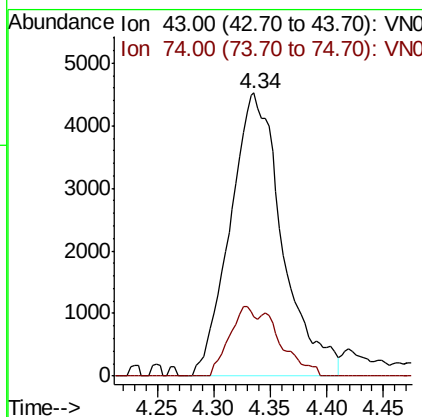
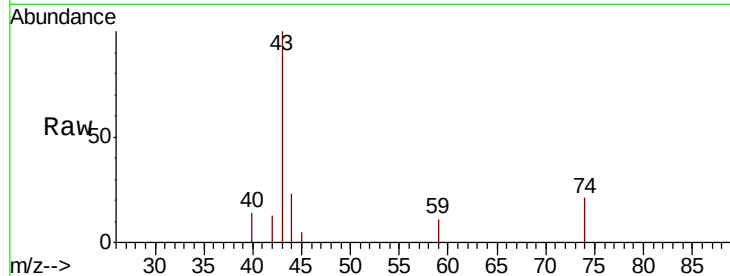




#18
Methyl Acetate
Concen: 1.77 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN050665.D
Acq: 15 Aug 2018 19:21

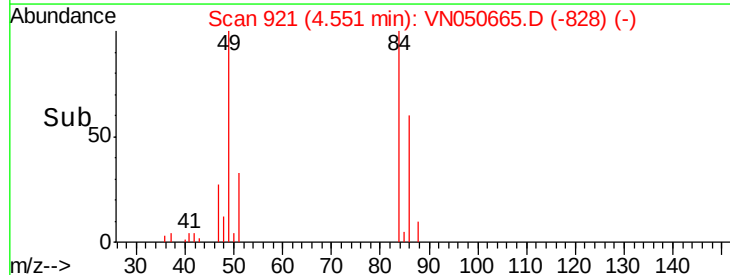
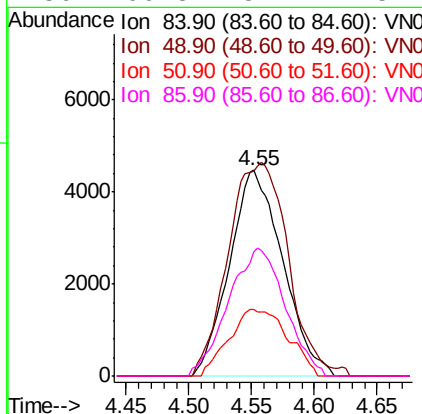
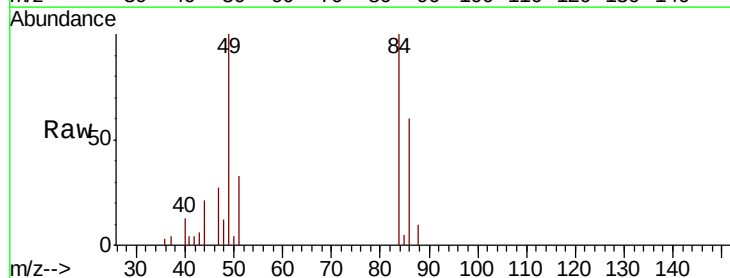
Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#05

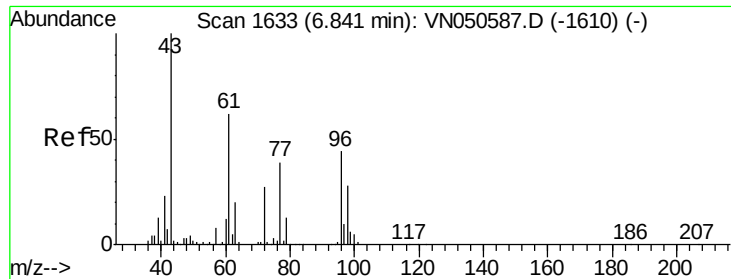
Tot Ion: 43 Resp: 14549
Ion Ratio Lower Upper
43 100
74 12.8 19.7 29.5#



#20
Methylene Chloride
Concen: 0.57 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050665.D
Acq: 15 Aug 2018 19:21

Tgt Ion: 84 Resp: 13191
Ion Ratio Lower Upper
84 100
49 99.8 92.6 138.8
51 32.6 28.6 43.0
86 60.3 52.2 78.2

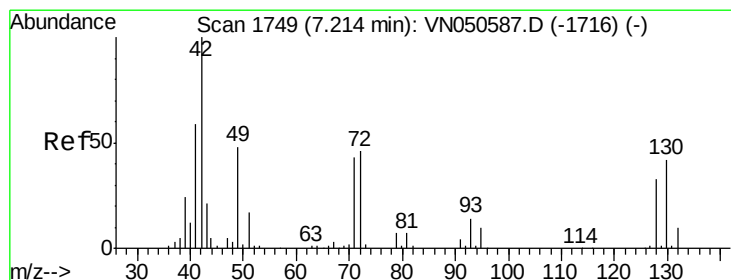
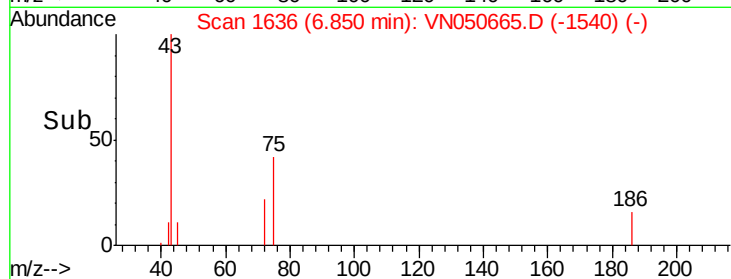
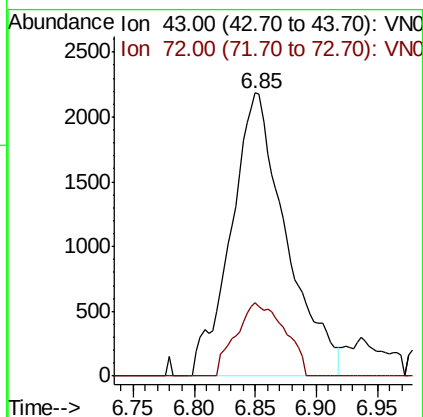
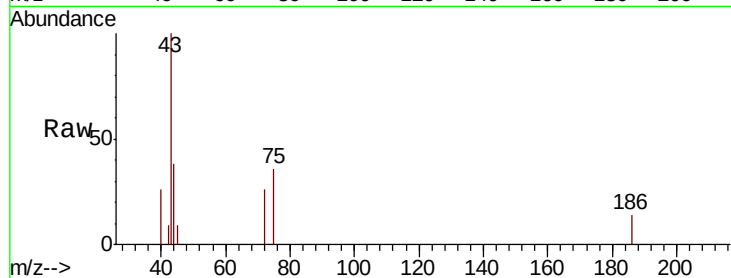




#25
2-Butanone
Concen: 2.20 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050665.D
Acq: 15 Aug 2018 19:21

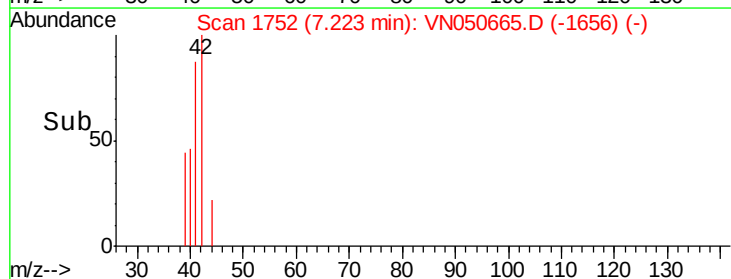
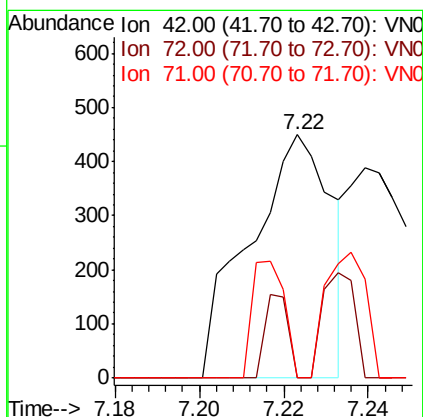
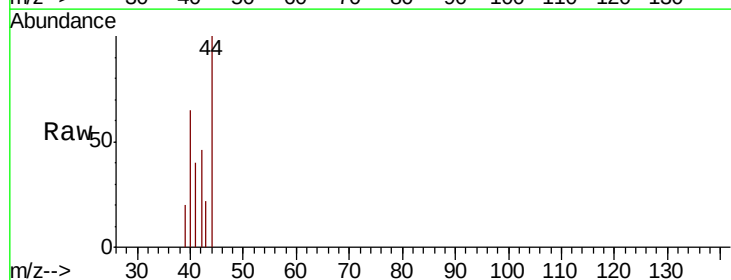
Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#05

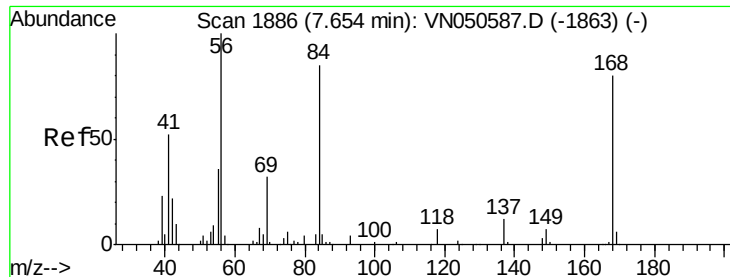
Tot Ion: 43 Resp: 6825
Ion Ratio Lower Upper
43 100
72 25.9 21.8 32.6



#29
Tetrahydrofuran
Concen: 0.37 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.01 min
Lab File: VN050665.D
Acq: 15 Aug 2018 19:21

Tgt Ion: 42 Resp: 605
Ion Ratio Lower Upper
42 100
72 9.8 35.8 53.6#
71 18.8 33.4 50.0#





#31

Cyclohexane

Concen: 0.61 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN050665.D

Acq: 15 Aug 2018 19:21

Instrument :

MSVOA_N

ClientSampleId :

PB1112055ZHE#05

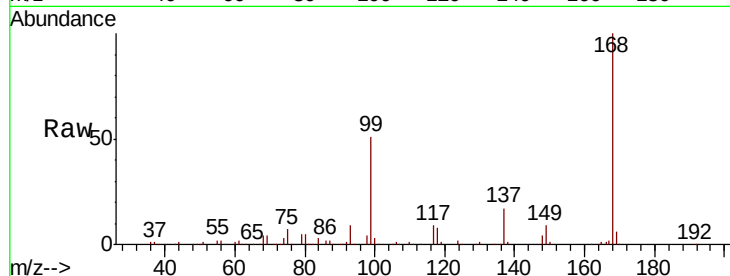
Tot Ion: 56 Resp: 10905

Ion Ratio Lower Upper

56 100

69 198.2 25.8 38.6#

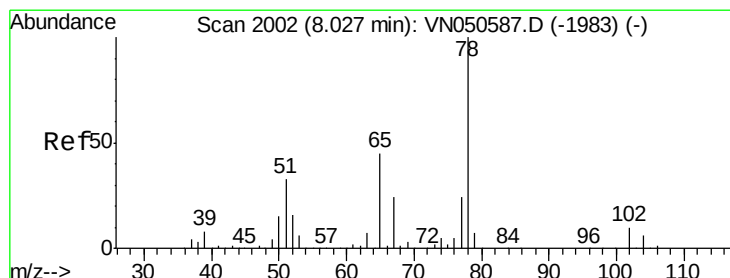
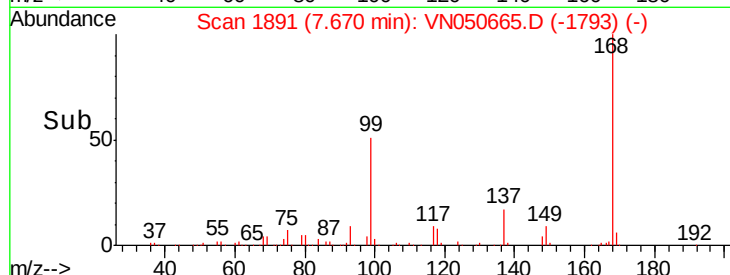
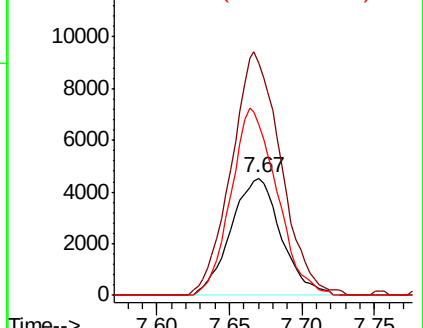
84 146.2 67.8 101.6#



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: 56.00 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050665.D

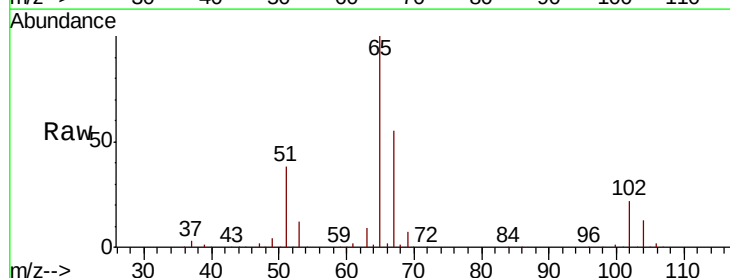
Acq: 15 Aug 2018 19:21

Tgt Ion: 65 Resp: 424633

Ion Ratio Lower Upper

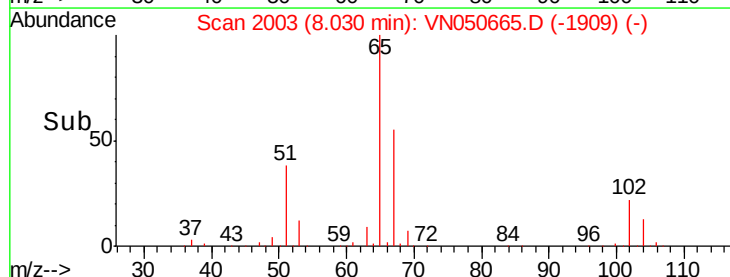
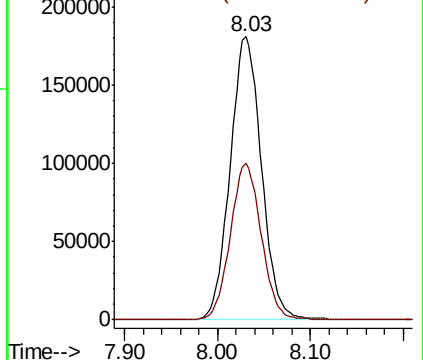
65 100

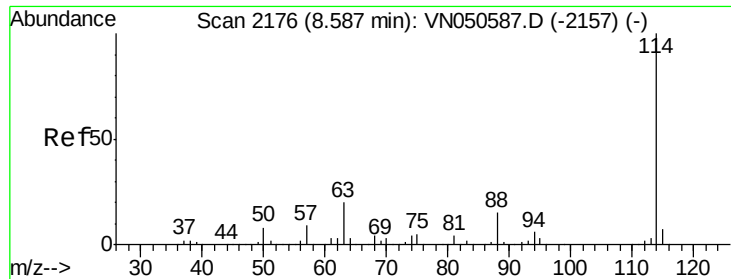
67 54.6 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

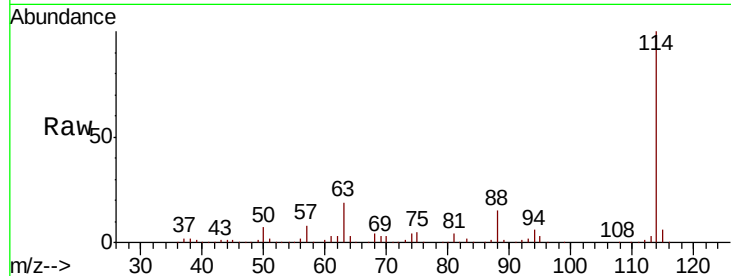




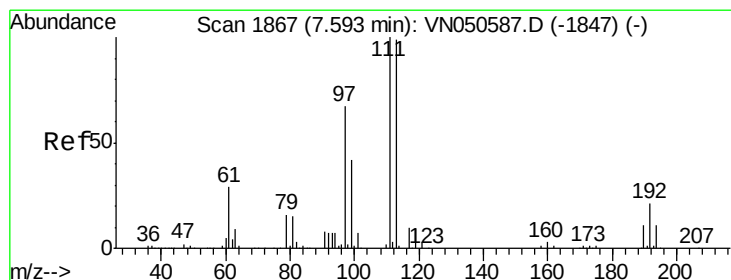
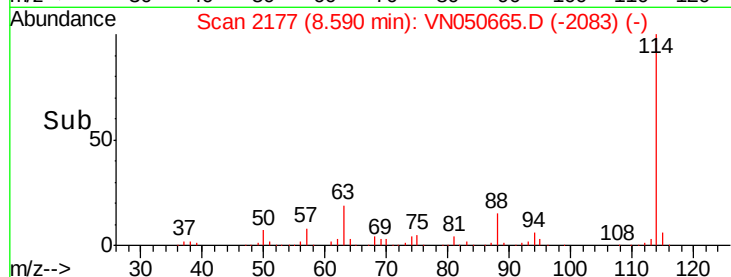
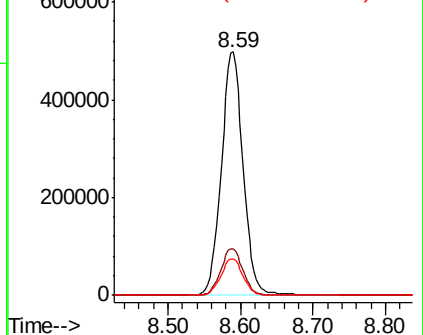
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050665.D
 Acq: 15 Aug 2018 19:21

Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055ZHE#05

Tot Ion:114 Resp: 1036478
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 40.0
 88 15.1 0.0 30.8

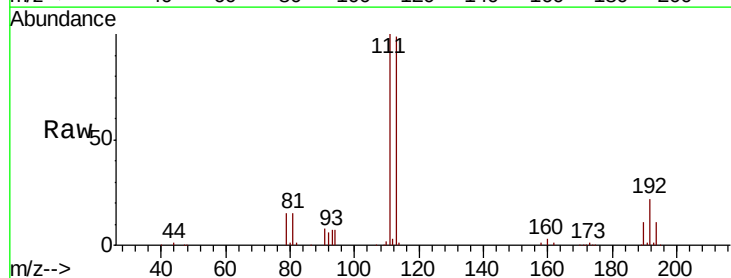


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

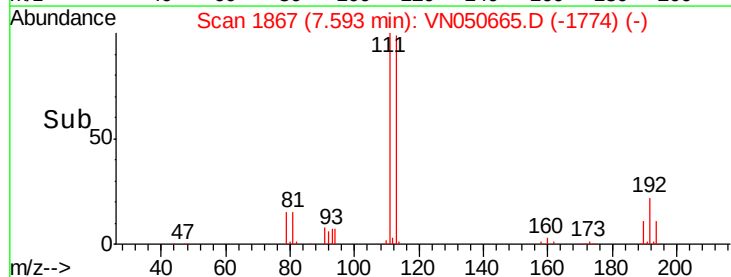
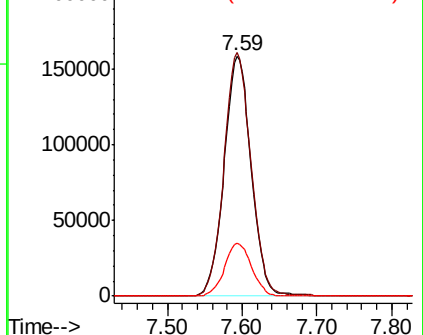


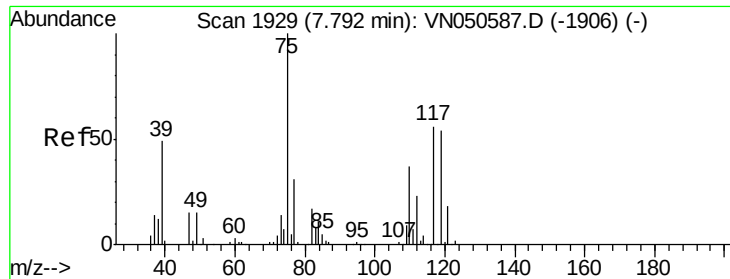
#35
 Dibromofluoromethane
 Concen: 47.96 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050665.D
 Acq: 15 Aug 2018 19:21

Tgt Ion:113 Resp: 396852
 Ion Ratio Lower Upper
 113 100
 111 101.0 81.0 121.6
 192 22.1 17.6 26.4



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

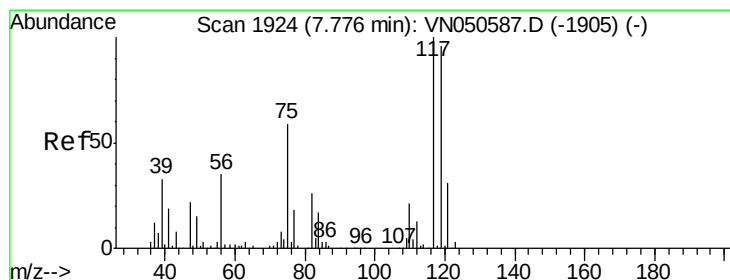
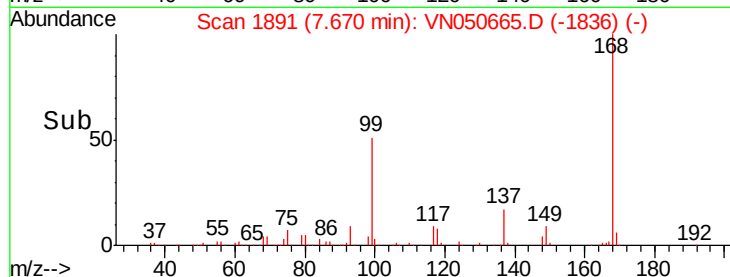
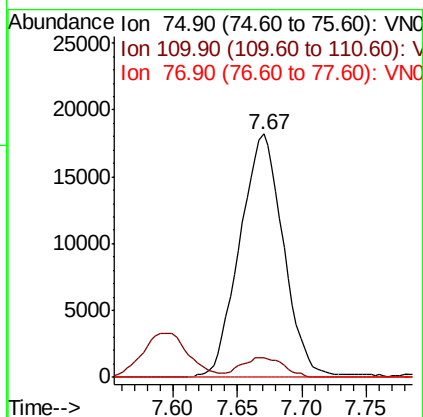
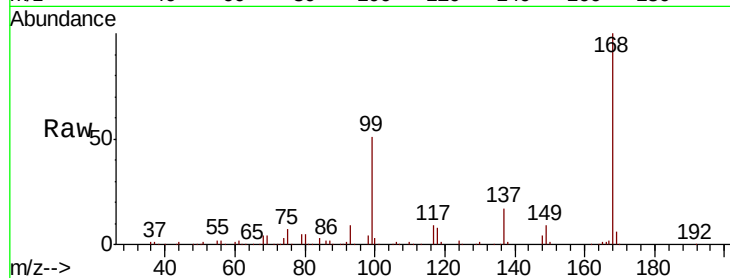




#36
 1,1-Dichloropropene
 Concen: 3.71 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN050665.D
 Acq: 15 Aug 2018 19:21

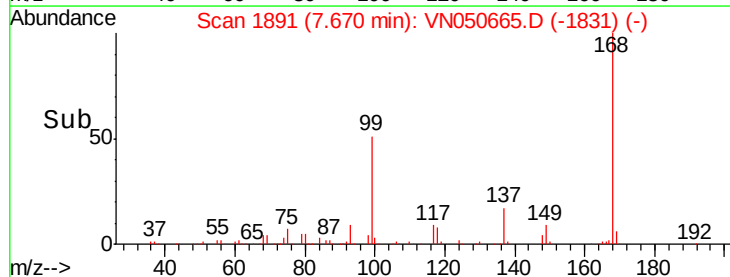
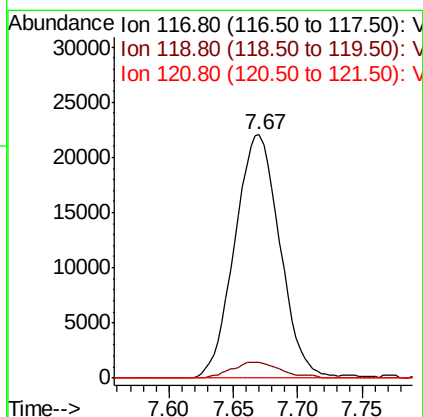
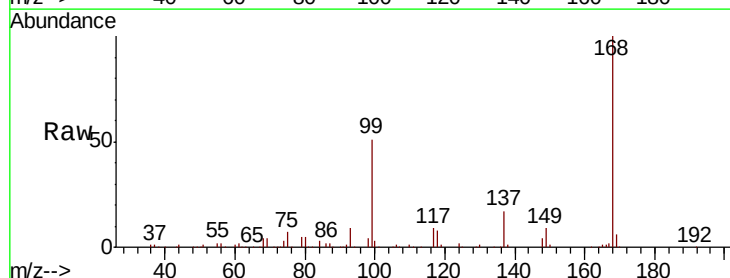
Instrument :
 MSVOA_N
 ClientSampleId :
 PB1112055ZHE#05

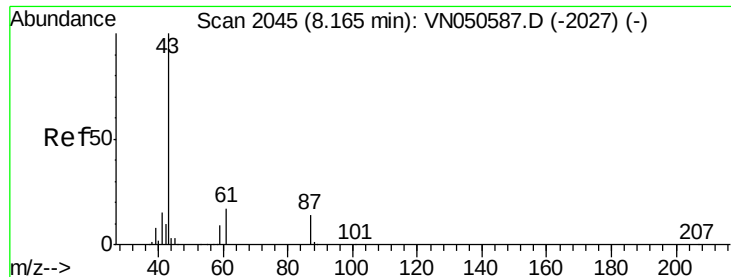
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.0	18.3	54.9#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 4.49 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050665.D
 Acq: 15 Aug 2018 19:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	76.6	115.0#
121	0.0	25.0	37.6#





#43

Isopropyl Acetate

Concen: 24.59 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050665.D

Acq: 15 Aug 2018 19:21

Instrument :

MSVOA_N

ClientSampleId :

PB1112055ZHE#05

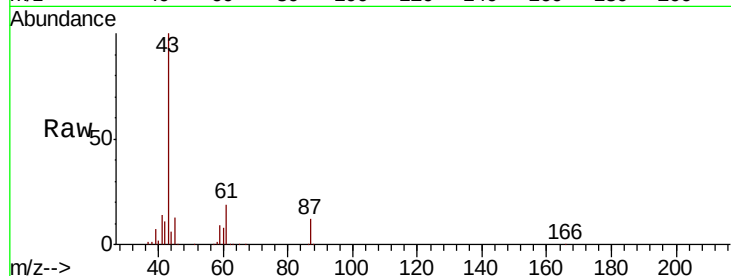
Tot Ion: 43 Resp: 292320

Ion Ratio Lower Upper

43 100

61 16.2 16.2 24.2

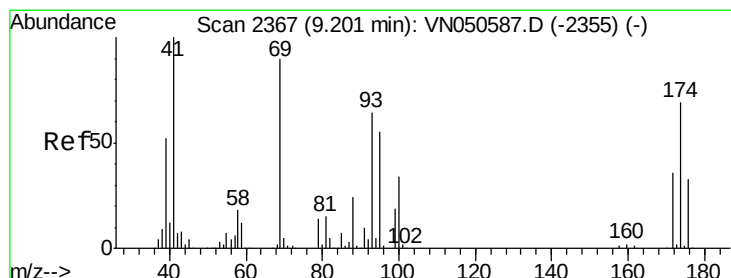
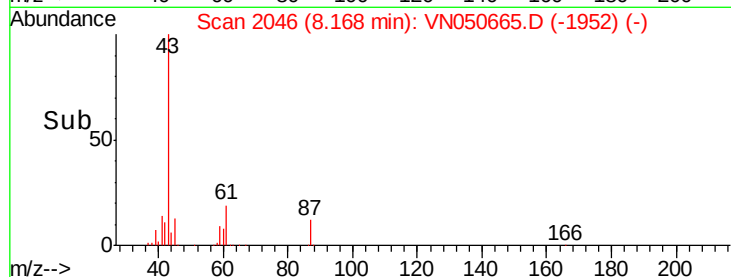
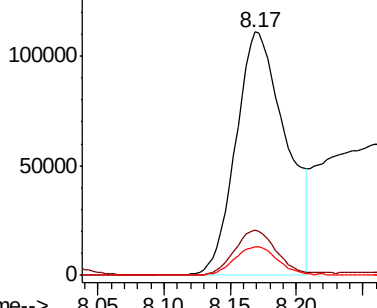
87 10.4 10.9 16.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#48

Methyl methacrylate

Concen: 1.35 ug/l

RT: 9.18 min Scan# 2362

Delta R.T. -0.02 min

Lab File: VN050665.D

Acq: 15 Aug 2018 19:21

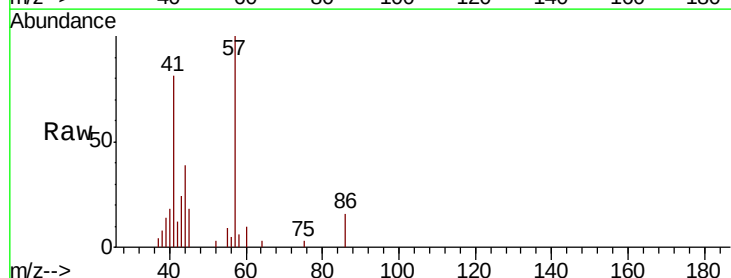
Tgt Ion: 41 Resp: 8064

Ion Ratio Lower Upper

41 100

69 0.0 73.4 110.0#

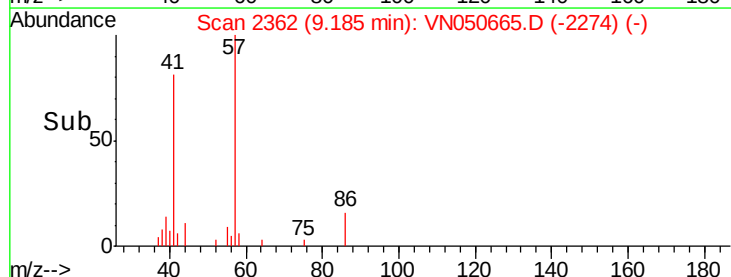
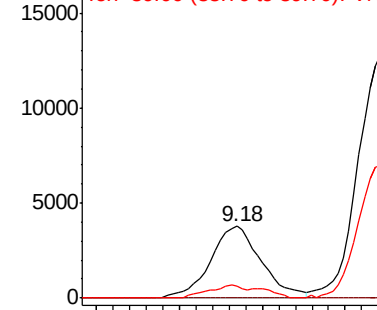
39 15.1 43.0 64.6#

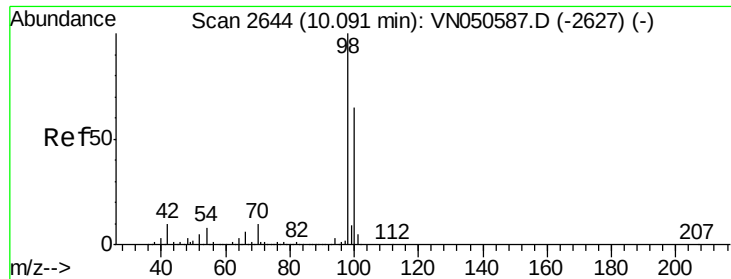


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 45.24 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050665.D

Acq: 15 Aug 2018 19:21

Instrument :

MSVOA_N

ClientSampleId :

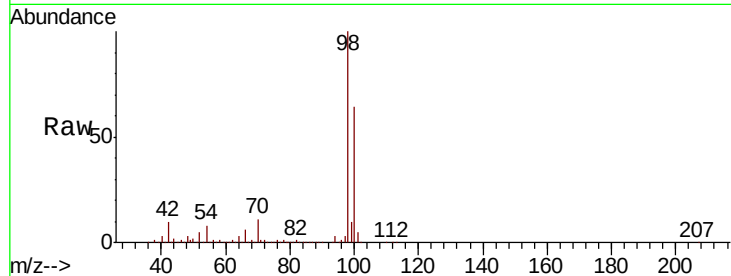
PB1112055ZHE#05

Tot Ion: 98 Resp: 1409010

Ion Ratio Lower Upper

98 100

100 63.4 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

800000

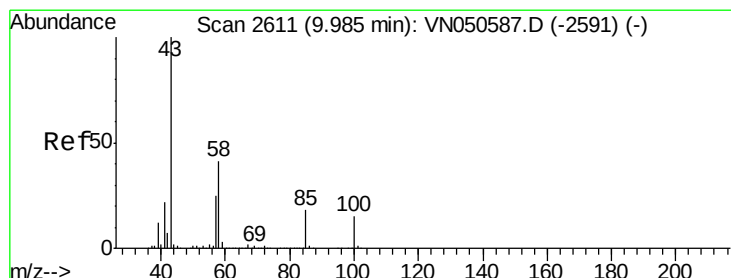
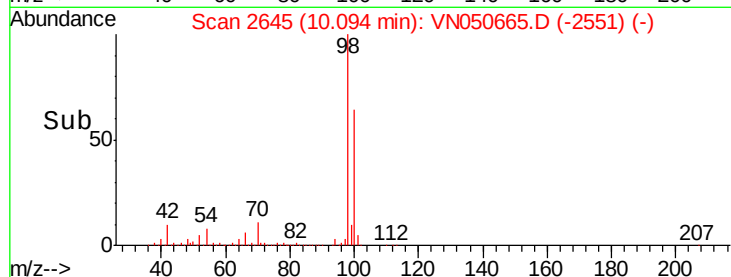
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.24 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. 0.00 min

Lab File: VN050665.D

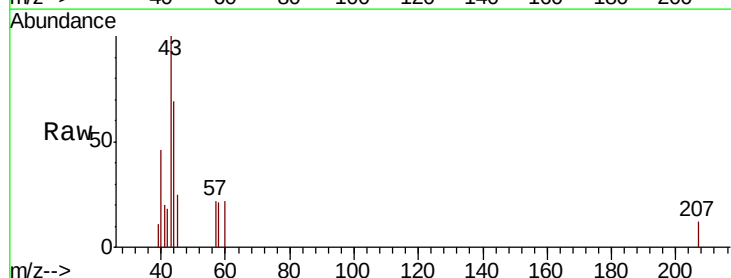
Acq: 15 Aug 2018 19:21

Tgt Ion: 43 Resp: 1912

Ion Ratio Lower Upper

43 100

58 19.1 32.5 48.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

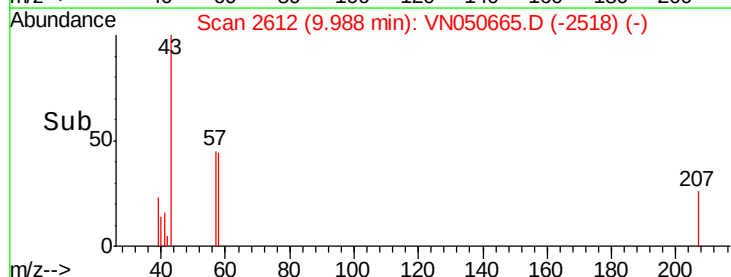
1500

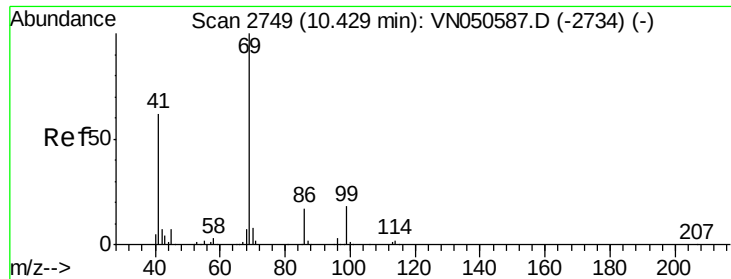
1000

500

0

Time-->





#56

Ethyl methacrylate

Concen: 1.94 ug/l

RT: 10.64 min Scan# 2814

Delta R.T. 0.21 min

Lab File: VN050665.D

Acq: 15 Aug 2018 19:21

Instrument :

MSVOA_N

ClientSampleId :

PB1112055ZHE#05

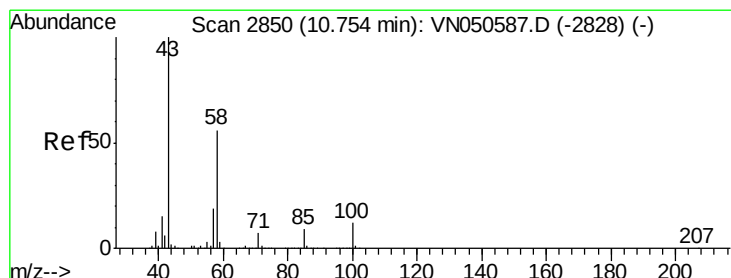
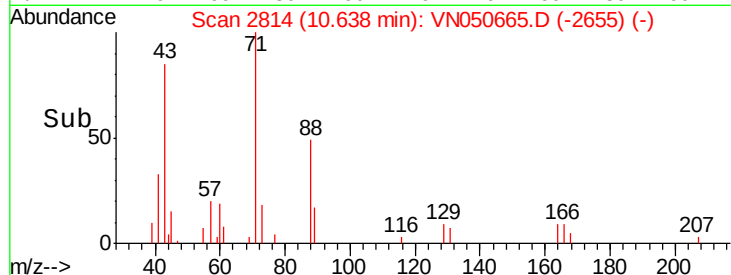
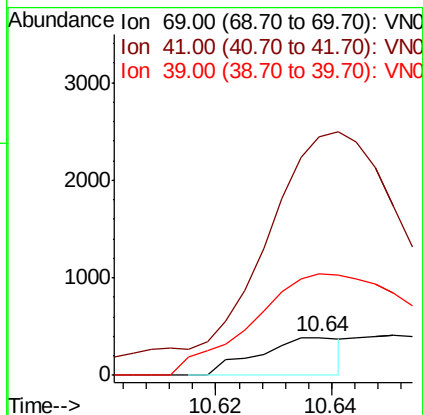
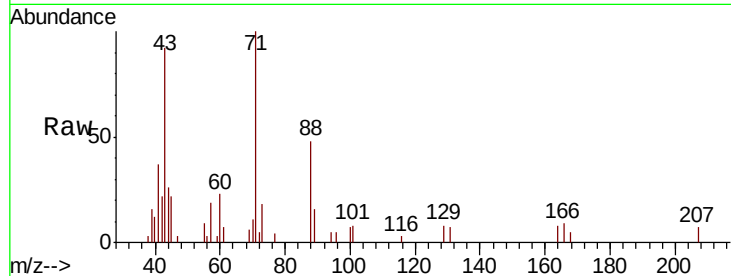
Tot Ion: 69 Resp: 388

Ion Ratio Lower Upper

69 100

41 1284.0 49.7 74.5#

39 558.2 24.2 36.2#



#59

2-Hexanone

Concen: 3.36 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050665.D

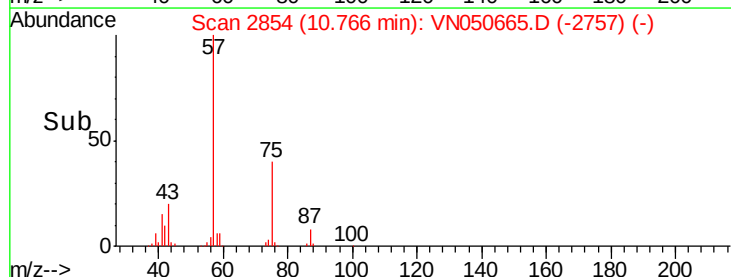
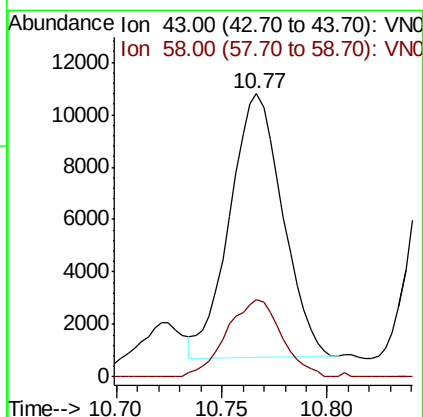
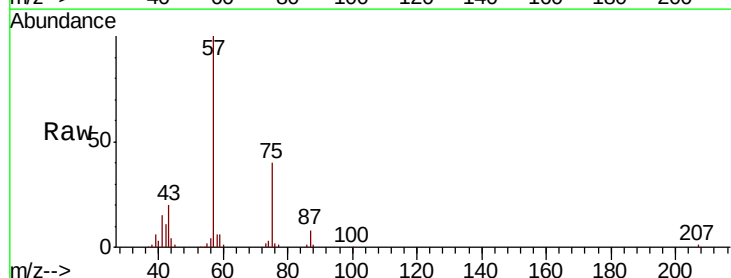
Acq: 15 Aug 2018 19:21

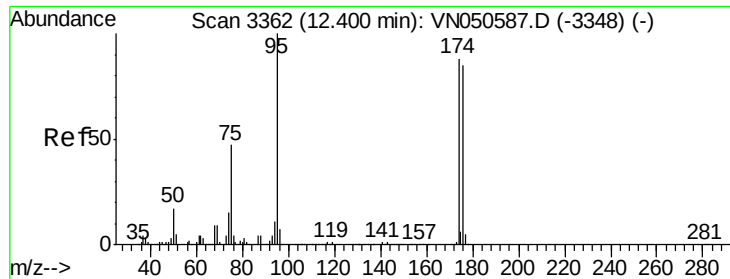
Tgt Ion: 43 Resp: 17437

Ion Ratio Lower Upper

43 100

58 30.6 28.0 84.0

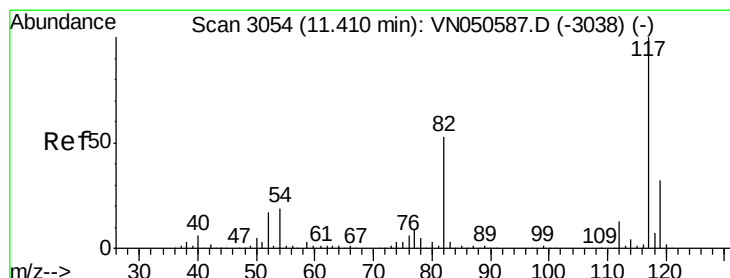
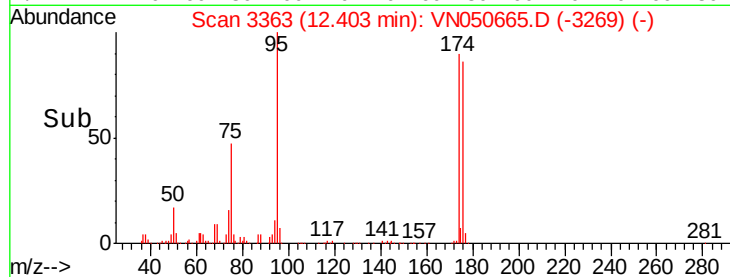
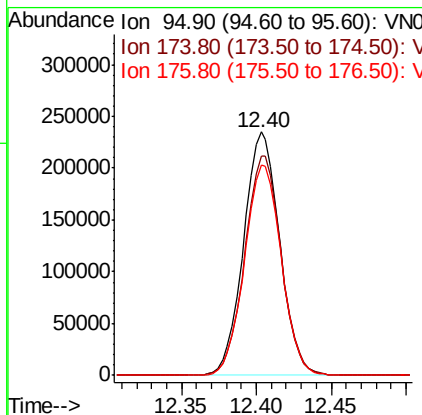
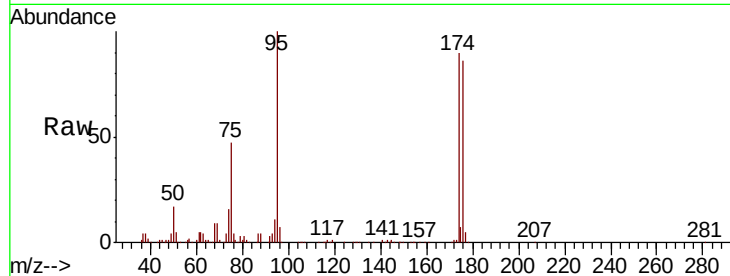




#62
4-Bromofluorobenzene
Concen: 38.24 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050665.D
Acq: 15 Aug 2018 19:21

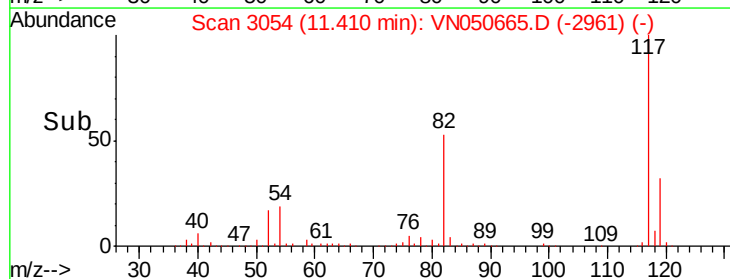
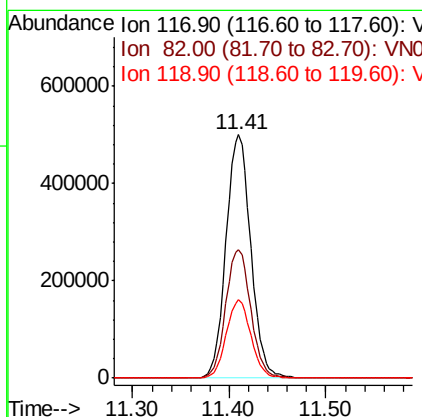
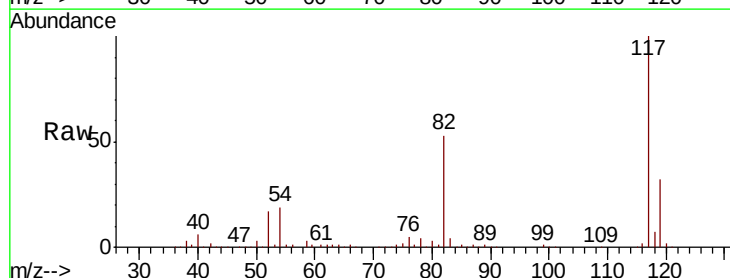
Instrument :
MSVOA_N
ClientSampleId :
PB1112055ZHE#05

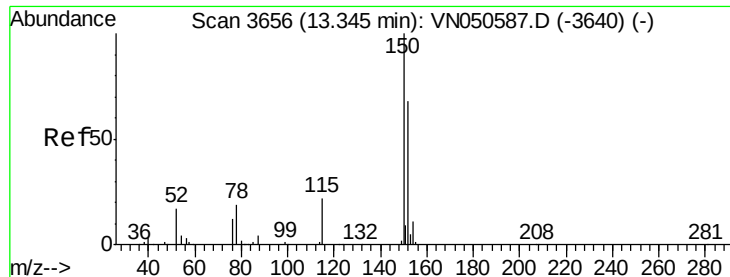
Tot Ion: 95 Resp: 393449
Ion Ratio Lower Upper
95 100
174 91.5 0.0 177.8
176 88.2 0.0 175.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050665.D
Acq: 15 Aug 2018 19:21

Tgt Ion: 117 Resp: 890383
Ion Ratio Lower Upper
117 100
82 52.9 42.4 63.6
119 32.0 25.8 38.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050665.D

Acq: 15 Aug 2018 19:21

Instrument :

MSVOA_N

ClientSampleId :

PB1112055ZHE#05

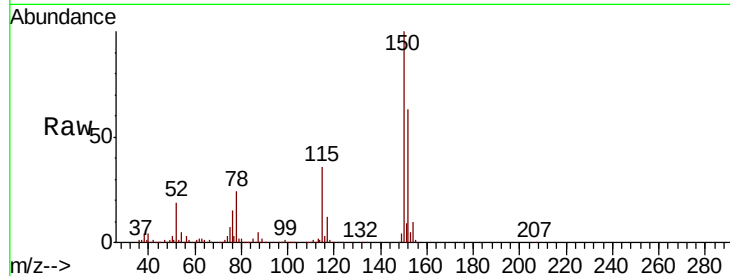
Tot Ion:152 Resp: 324164

Ion Ratio Lower Upper

152 100

115 57.3 28.1 84.2

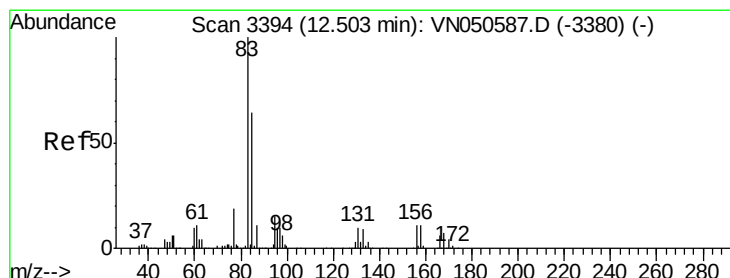
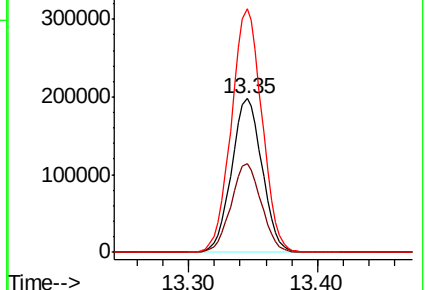
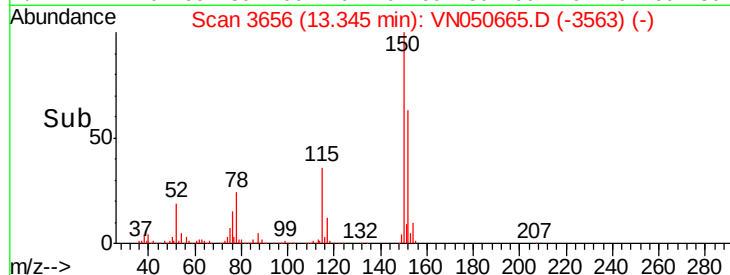
150 159.0 0.0 347.8



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: 12.42 min Scan# 3367

Delta R.T. -0.09 min

Lab File: VN050665.D

Acq: 15 Aug 2018 19:21

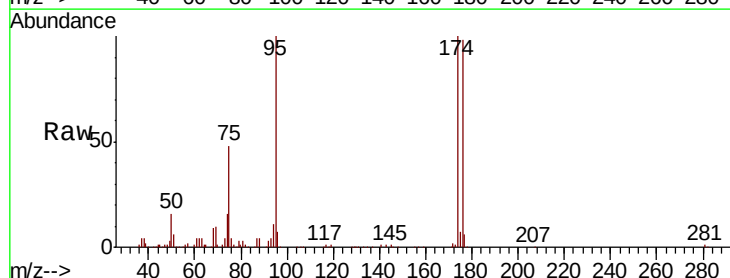
Tgt Ion: 83 Resp: 62

Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.9#

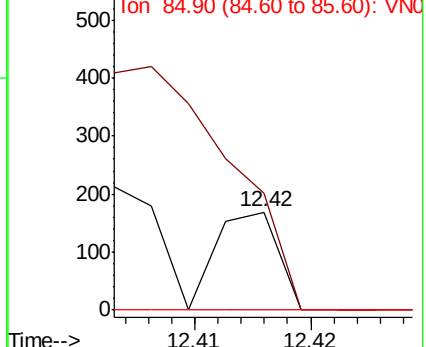
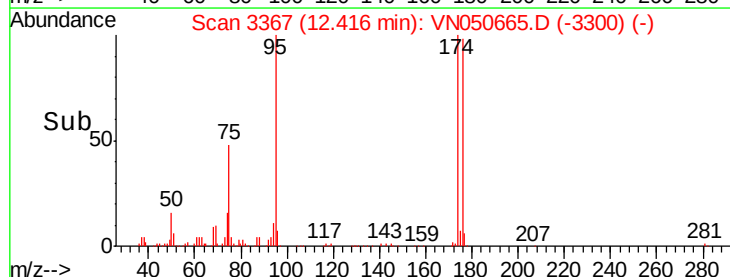
85 0.0 32.1 96.5#

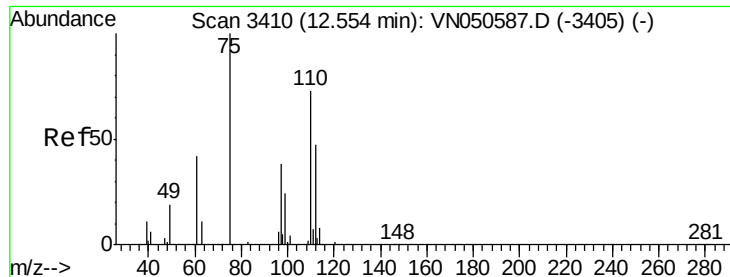


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 35.64 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050665.D

Acq: 15 Aug 2018 19:21

Instrument :

MSVOA_N

ClientSampleId :

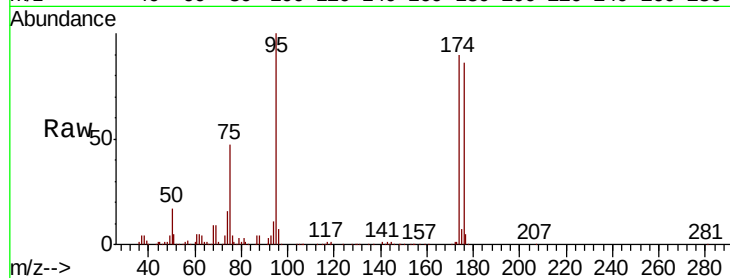
PB1112055ZHE#05

Tot Ion: 75 Resp: 188210

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

120000

100000

80000

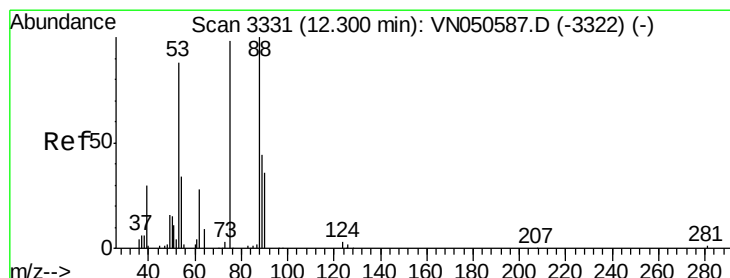
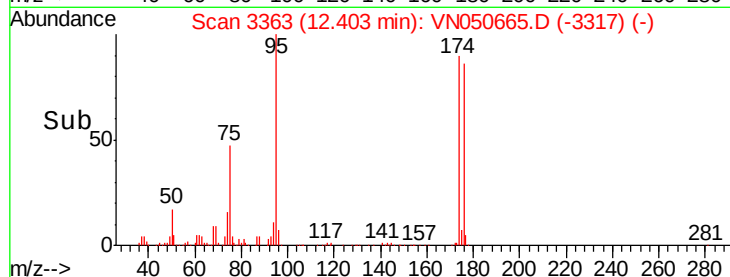
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 129.08 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050665.D

Acq: 15 Aug 2018 19:21

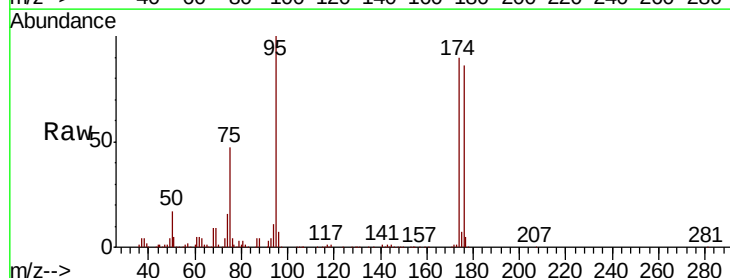
Tgt Ion: 75 Resp: 188210

Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

89 0.0 36.3 54.5#



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

150000

100000

50000

0

Time-->

