

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050731.D
 Acq On : 17 Aug 2018 15:37
 Operator : MD\SY
 Sample : J4548-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 17 23:19:45 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA N\methods\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	112827	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	615119	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	503348	30.00	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.03	65	231940	30.24	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.80%
60) 4-Bromofluorobenzene	12.40	95	204106	26.39	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	87.97%
63) Toluene-d8	10.09	98	692552	28.81	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	96.03%

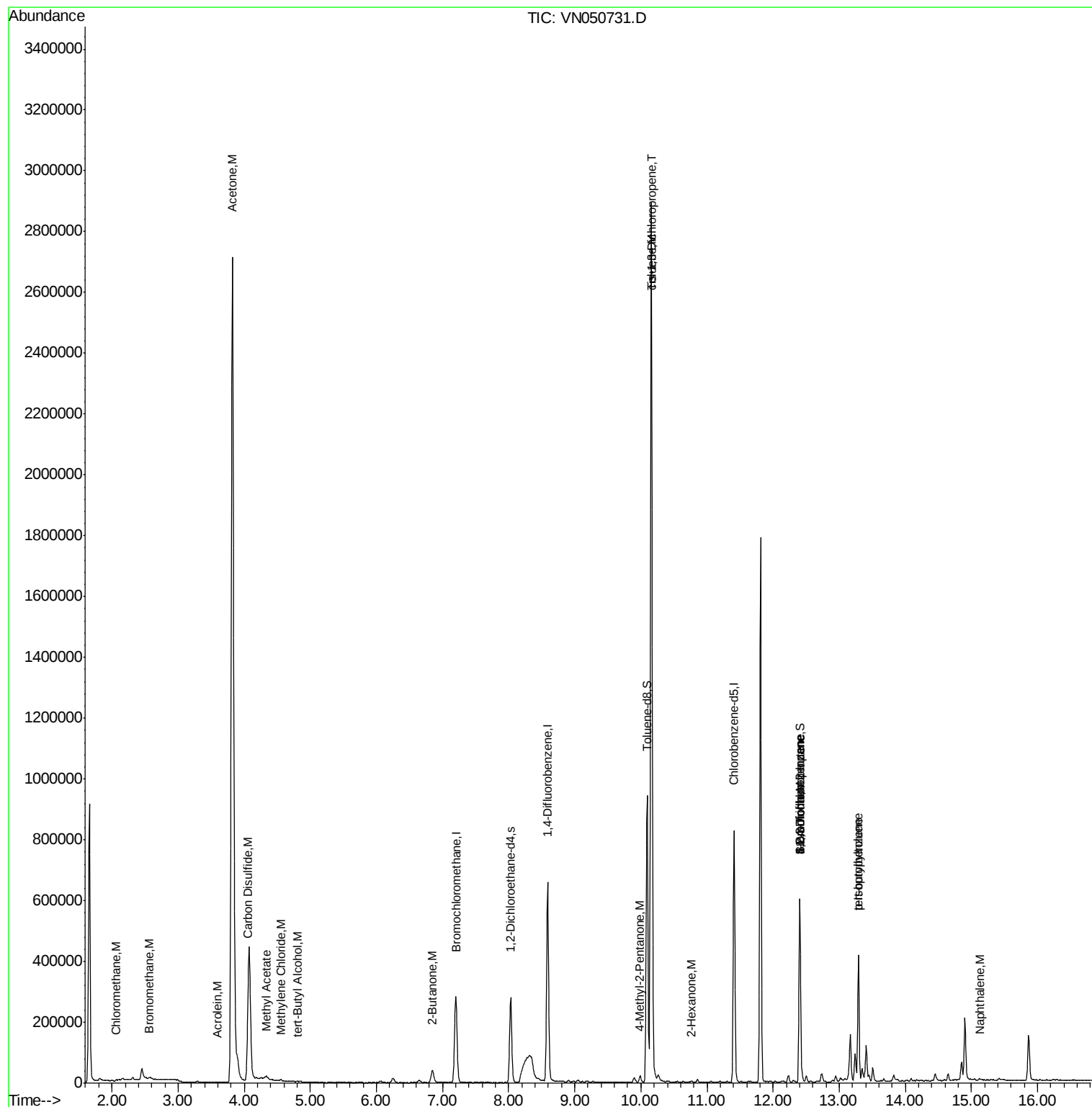
Target Compounds					Ovalue
3) Chloromethane	2.06	50	2065	0.26 ug/l	94
5) Bromomethane	2.56	94	2765	0.53 ug/l	86
12) Methyl Acetate	4.34	43	12953	1.88 ug/l	94
13) Acrolein	3.60	56	133	0.31 ug/l	# 61
15) Acetone	3.82	58	1518939	2485.63 ug/l	91
16) Carbon Disulfide	4.05	76	6973	0.38 ug/l	96
18) Methylene Chloride	4.55	84	1728	0.25 ug/l	86
23) tert-Butyl Alcohol	4.81	59	293	0.57 ug/l	# 100
30) 2-Butanone	6.84	43	72048	24.05 ug/l	99
49) cis-1,3-Dichloropropene	10.16	75	14867	1.33 ug/l	# 1
56) Bromoform	12.41	173	2272	0.42 ug/l	# 1
58) 4-Methyl-2-Pentanone	9.99	43	14929	2.55 ug/l	98
59) 2-Hexanone	10.76	43	1295	0.32 ug/l	96
62) Toluene	10.16	91	2289466	79.72 ug/l	100
72) 1,2,3-Trichloropropane	12.40	75	96697	14.41 ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	96697	44.07 ug/l	# 14
79) tert-butylbenzene	13.29	119	224501	11.17 ug/l	61
82) p-Isopropyltoluene	13.29	119	224501	9.64 ug/l	98
91) Naphthalene	15.13	128	2192	7.75 ug/l	# 69

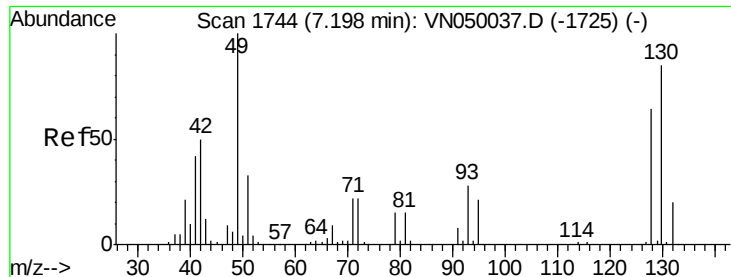
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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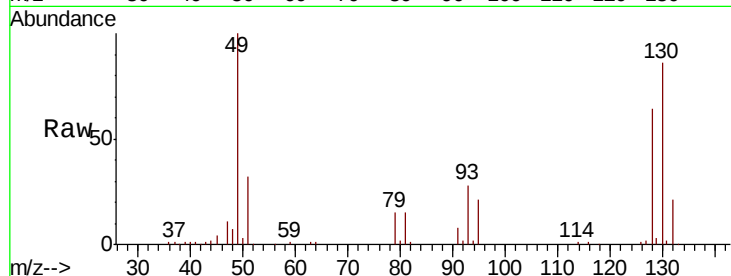




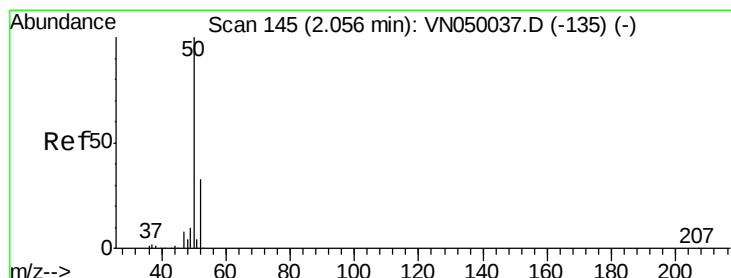
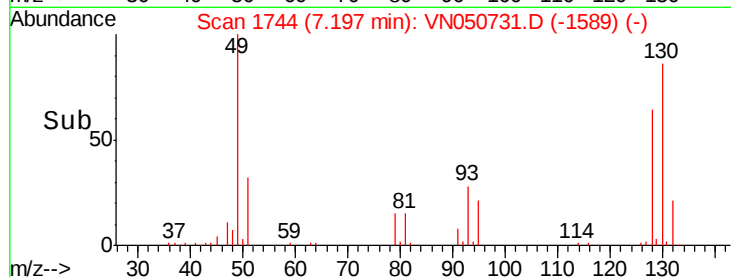
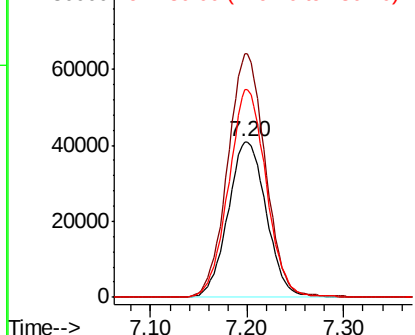
#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.20 min Scan# 1744
Delta R.T. -0.00 min
Lab File: VN050731.D
Acq: 17 Aug 2018 15:37

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:128 Resp: 112827
Ion Ratio Lower Upper
128 100
49 153.0 0.0 378.3
130 131.5 0.0 320.7

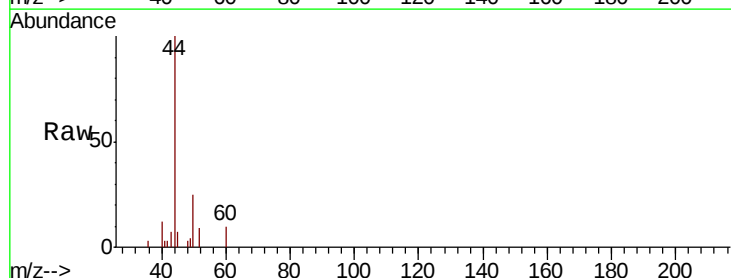


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V

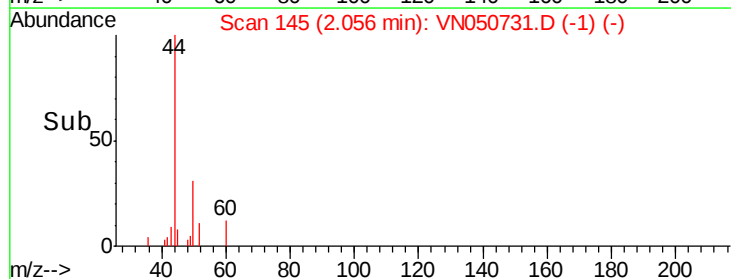
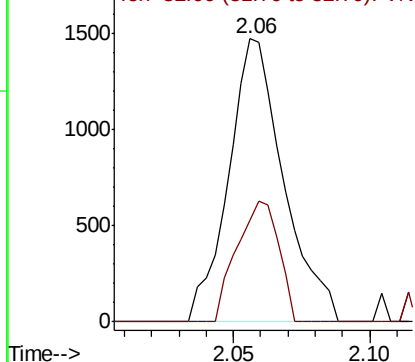


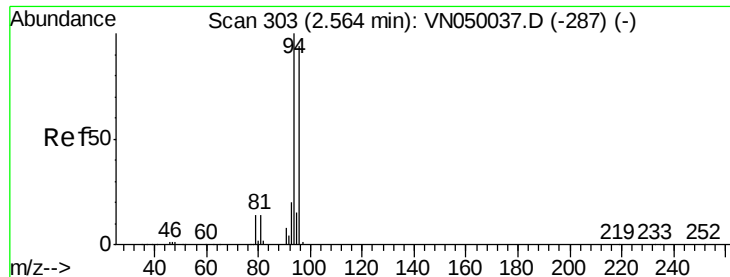
#3
Chloromethane
Concen: 0.26 ug/l
RT: 2.06 min Scan# 145
Delta R.T. -0.00 min
Lab File: VN050731.D
Acq: 17 Aug 2018 15:37

Tgt Ion: 50 Resp: 2065
Ion Ratio Lower Upper
50 100
52 35.7 26.1 39.1



Abundance Ion 50.00 (49.70 to 50.70): VN
Ion 52.00 (51.70 to 52.70): VN





#5

Bromomethane

Concen: 0.53 ug/l

RT: 2.56 min Scan# 303

Delta R.T. -0.00 min

Lab File: VN050731.D

Acq: 17 Aug 2018 15:37

Instrument :

MSVOA_N

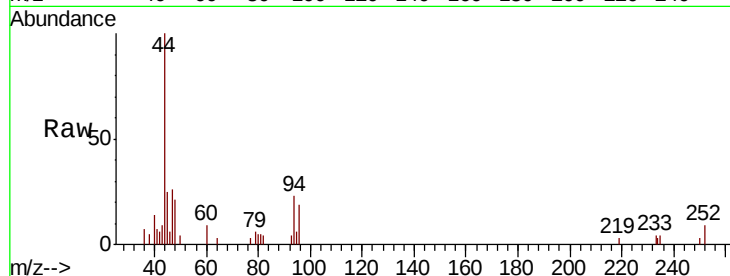
ClientSampled :

Tot Ion: 94 Resp: 2765

Ion Ratio Lower Upper

94 100

96 81.0 75.9 113.9



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0

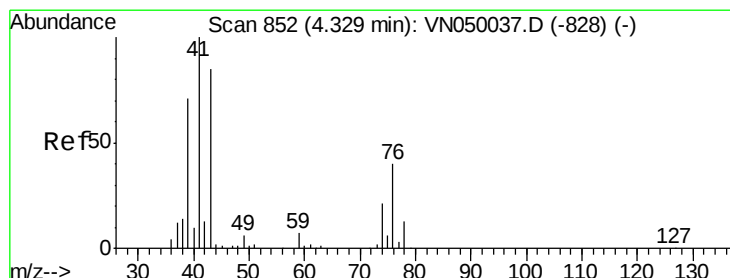
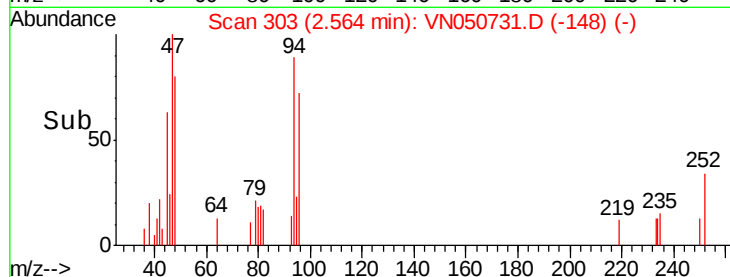
2.56

1000

500

0

Time--> 2.50 2.55 2.60



#12

Methyl Acetate

Concen: 1.88 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050731.D

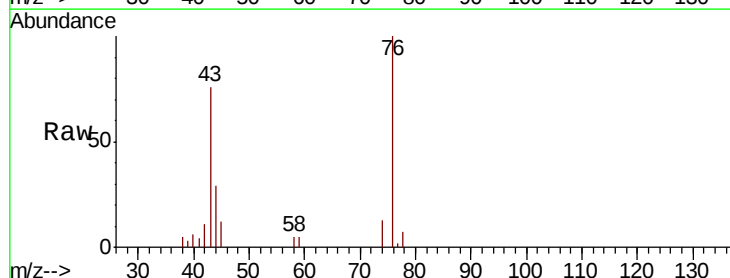
Acq: 17 Aug 2018 15:37

Tgt Ion: 43 Resp: 12953

Ion Ratio Lower Upper

43 100

74 21.1 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.34

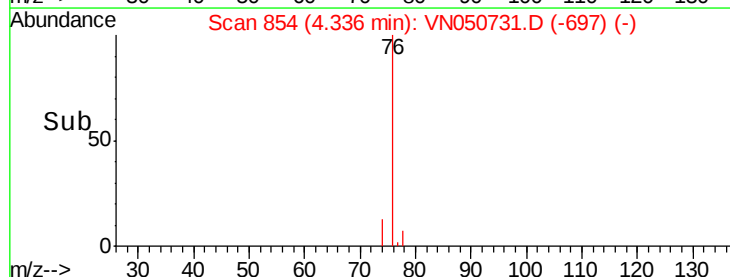
6000

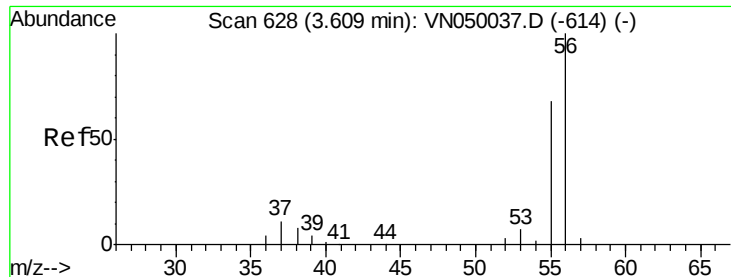
4000

2000

0

Time--> 4.25 4.30 4.35 4.40





#13

Acrolein

Concen: 0.31 ug/l

RT: 3.60 min Scan# 626

Delta R.T. -0.01 min

Lab File: VN050731.D

Acq: 17 Aug 2018 15:37

Instrument :

MSVOA_N

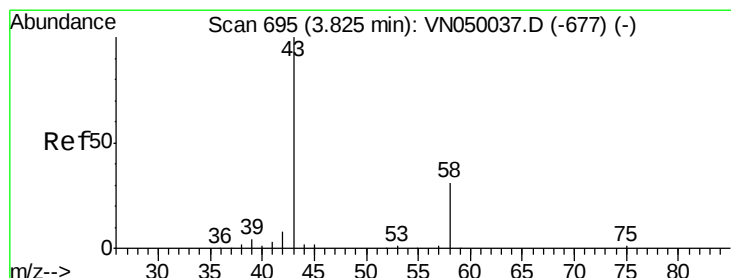
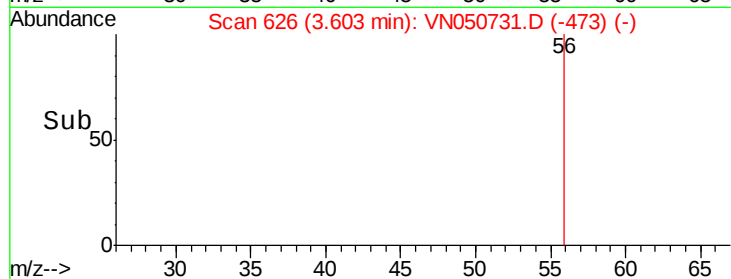
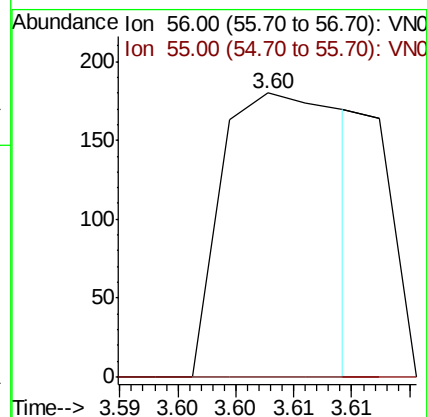
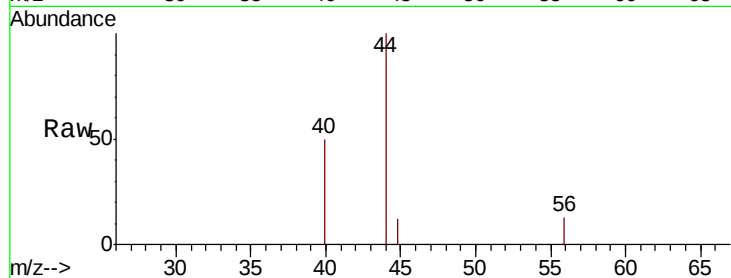
ClientSampleId :

Tot Ion: 56 Resp: 133

Ion Ratio Lower Upper

56 100

55 106.0 58.6 88.0#



#15

Acetone

Concen: 2485.63 ug/l

RT: 3.82 min Scan# 694

Delta R.T. -0.00 min

Lab File: VN050731.D

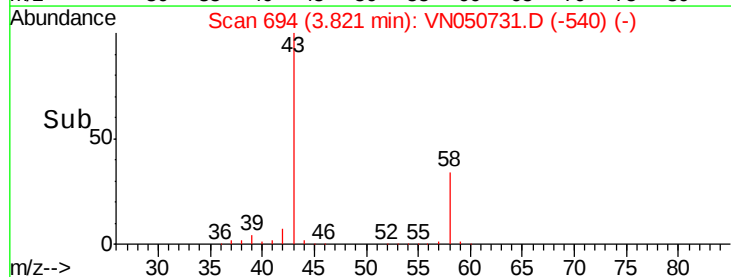
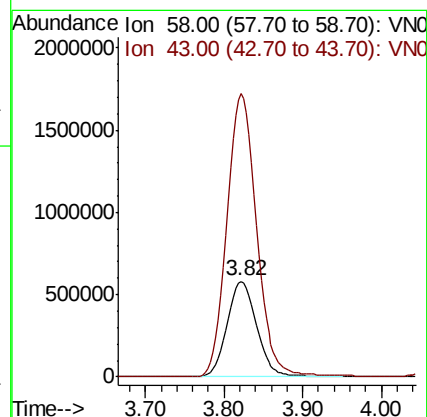
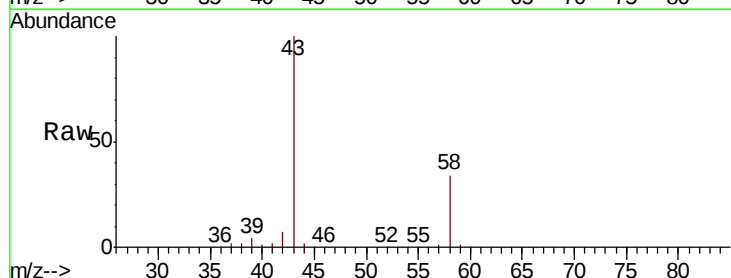
Acq: 17 Aug 2018 15:37

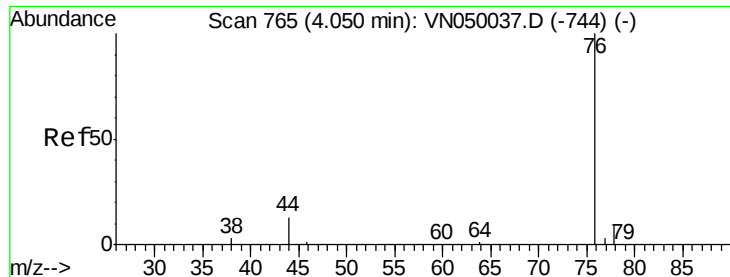
Tgt Ion: 58 Resp: 1518939

Ion Ratio Lower Upper

58 100

43 296.6 252.0 378.0

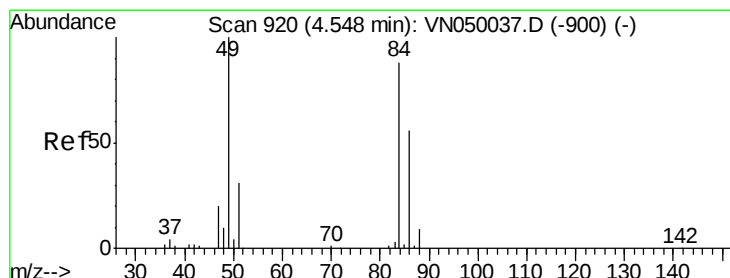
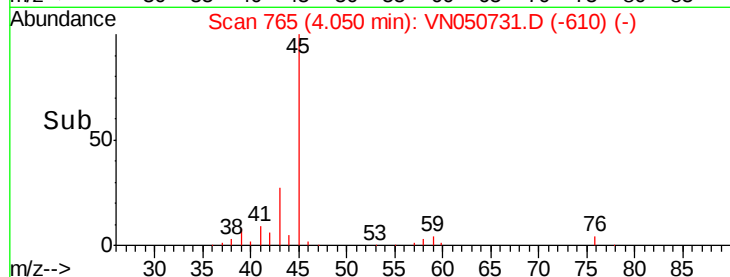
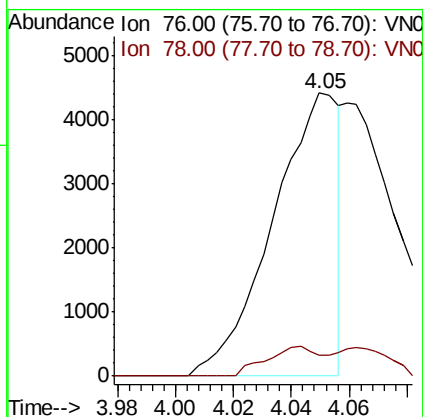
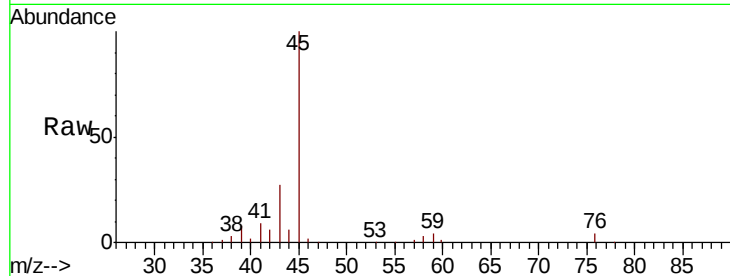




#16
Carbon Disulfide
Concen: 0.38 ug/l
RT: 4.05 min Scan# 765
Delta R.T. -0.00 min
Lab File: VN050731.D
Acq: 17 Aug 2018 15:37

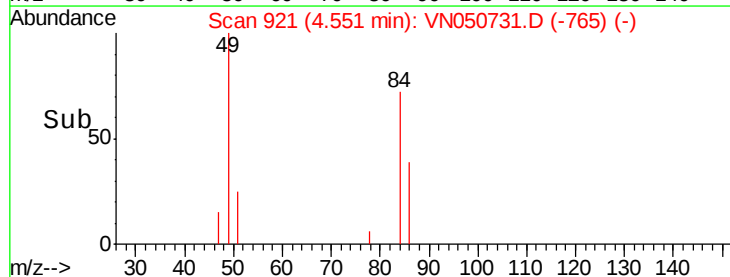
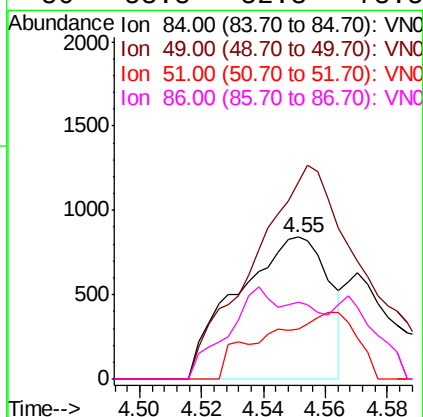
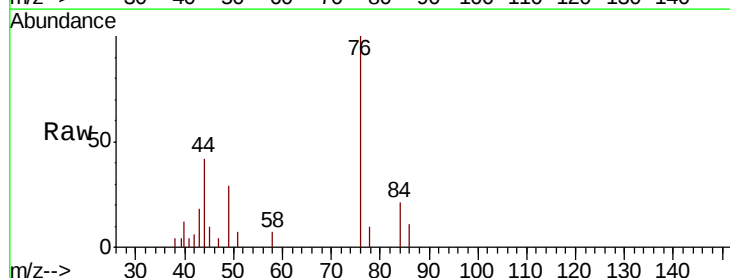
Instrument :
MSVOA_N
ClientSampleId :

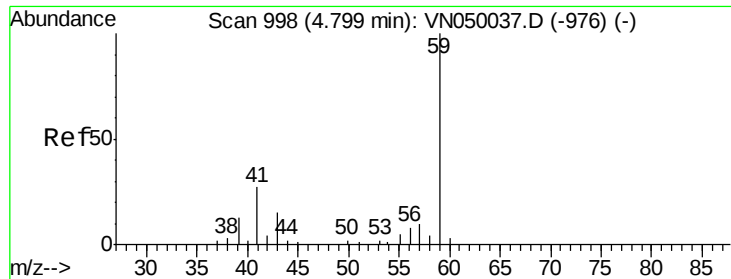
Tot Ion: 76 Resp: 6973
Ion Ratio Lower Upper
76 100
78 7.5 7.3 10.9



#18
Methylene Chloride
Concen: 0.25 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050731.D
Acq: 17 Aug 2018 15:37

Tgt Ion: 84 Resp: 1728
Ion Ratio Lower Upper
84 100
49 139.0 95.1 142.7
51 35.4 28.8 43.2
86 53.8 52.3 78.5



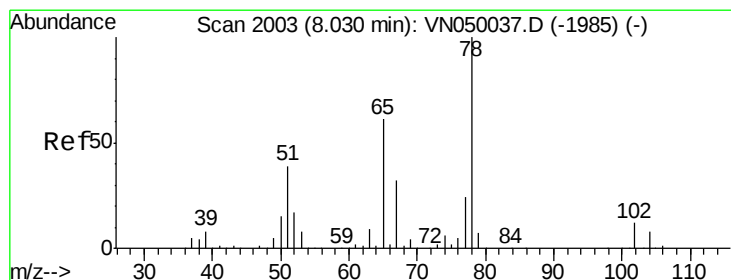
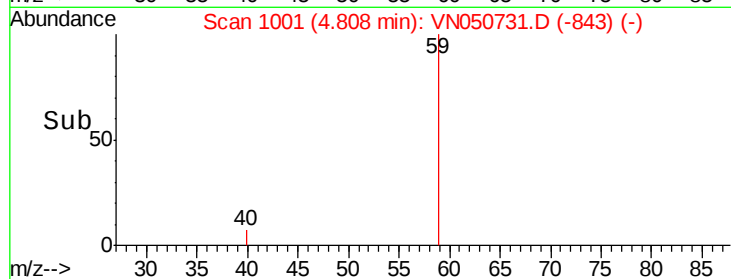
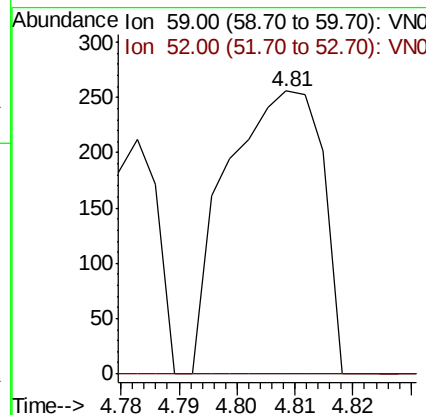
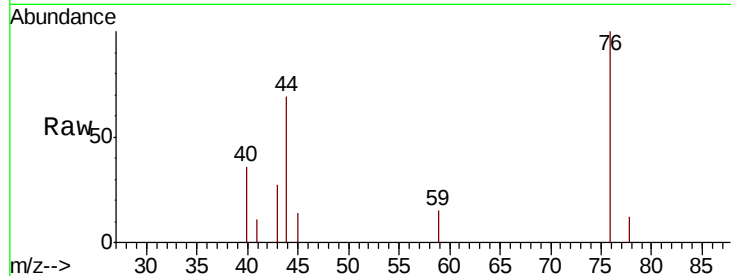


#23

tert-Butyl Alcohol
 Concen: 0.57 ug/l
 RT: 4.81 min Scan# 1001
 Delta R.T. 0.01 min
 Lab File: VN050731.D
 Acq: 17 Aug 2018 15:37

Instrument :
 MSVOA_N
 ClientSampleId :

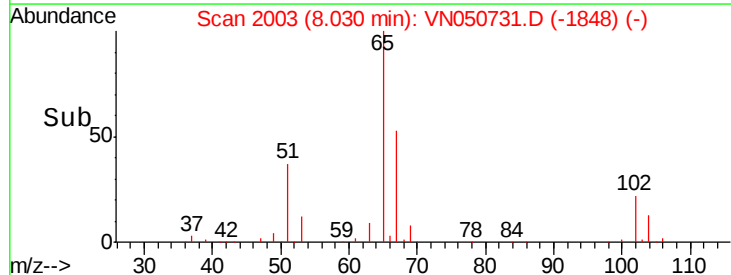
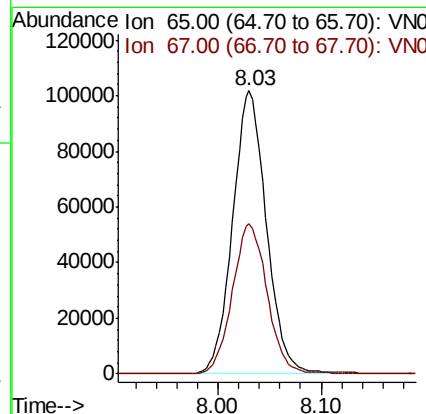
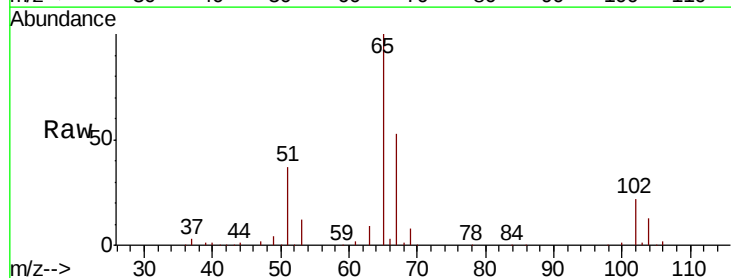
Tot Ion: 59 Resp: 293
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.1 0.1#

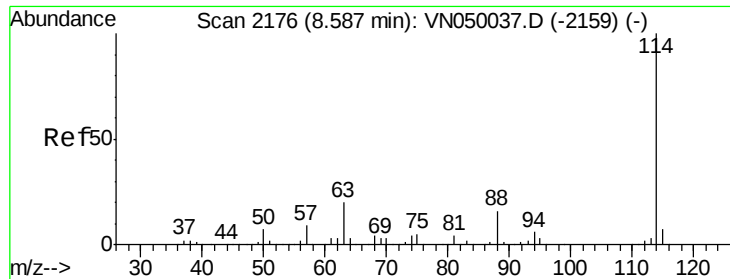


#27

1,2-Dichloroethane-d4
 Concen: 30.24 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN050731.D
 Acq: 17 Aug 2018 15:37

Tgt Ion: 65 Resp: 231940
 Ion Ratio Lower Upper
 65 100
 67 54.3 42.7 64.1

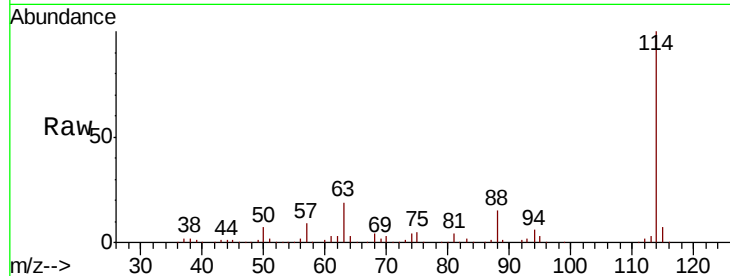




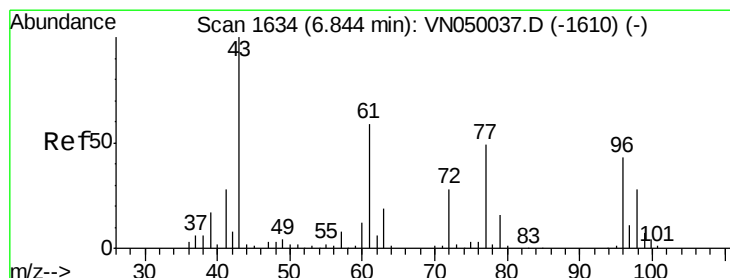
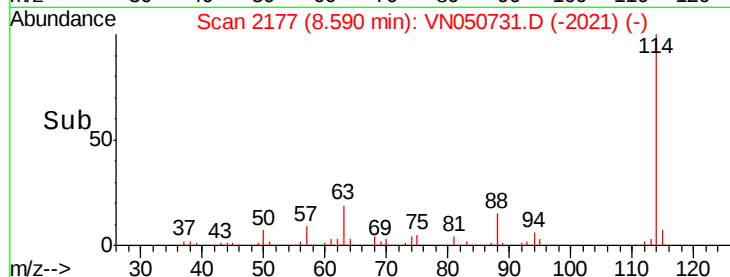
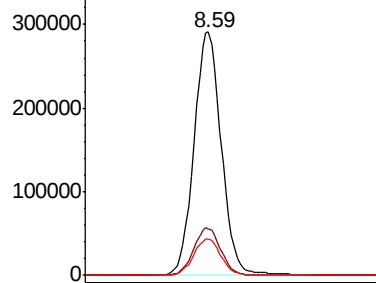
#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050731.D
 Acq: 17 Aug 2018 15:37

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 615119
 Ion Ratio Lower Upper
 114 100
 63 19.4 16.2 24.2
 88 15.1 12.3 18.5

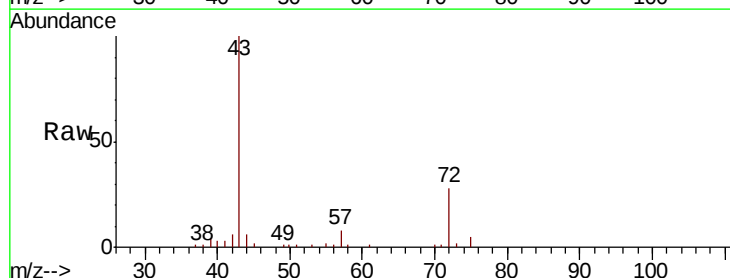


Abundance Ion 114.00 (113.70 to 114.70): VN050037.D (-2159) (-)
 Ion 63.00 (62.70 to 63.70): VN050037.D (-2159) (-)
 Ion 88.00 (87.70 to 88.70): VN050037.D (-2159) (-)

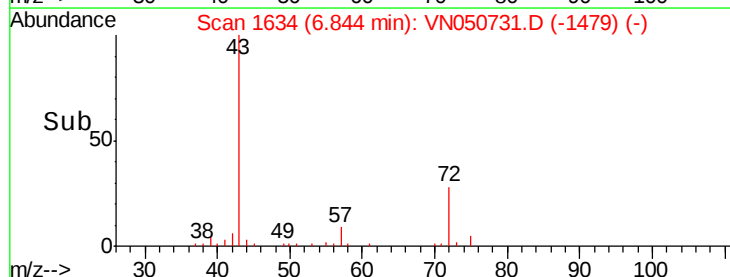
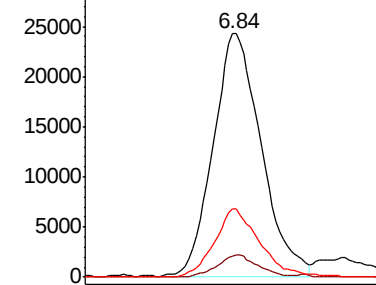


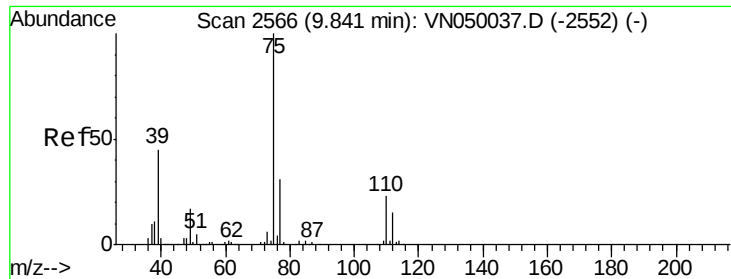
#30
 2-Butanone
 Concen: 24.05 ug/l
 RT: 6.84 min Scan# 1634
 Delta R.T. -0.00 min
 Lab File: VN050731.D
 Acq: 17 Aug 2018 15:37

Tgt Ion: 43 Resp: 72048
 Ion Ratio Lower Upper
 43 100
 57 7.6 6.8 10.2
 72 26.2 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VN050037.D (-1610) (-)
 Ion 57.00 (56.70 to 57.70): VN050037.D (-1610) (-)
 Ion 72.00 (71.70 to 72.70): VN050037.D (-1610) (-)





#49

cis-1,3-Dichloropropene

Concen: 1.33 ug/l

RT: 10.16 min Scan# 2665

Delta R.T. 0.32 min

Lab File: VN050731.D

Acq: 17 Aug 2018 15:37

Instrument :

MSVOA_N

ClientSampleId :

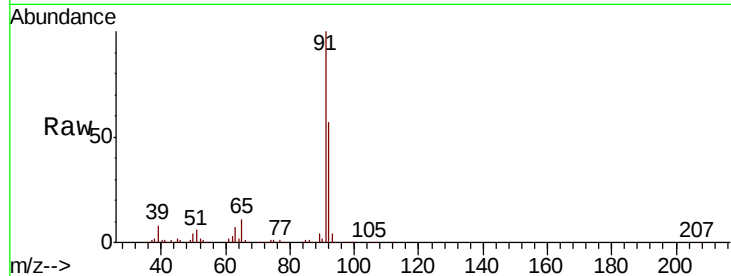
Tot Ion: 75 Resp: 14867

Ion Ratio Lower Upper

75 100

77 149.8 25.7 38.5#

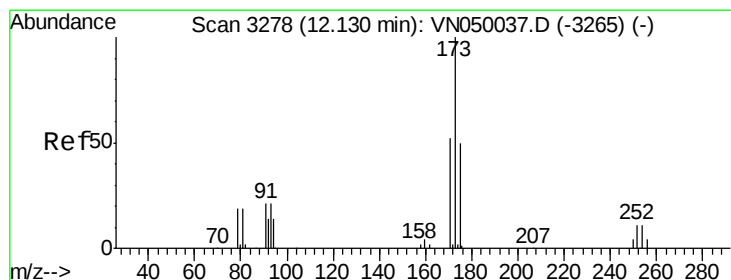
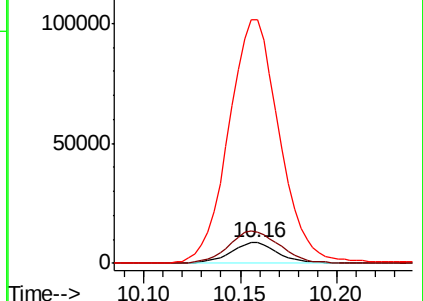
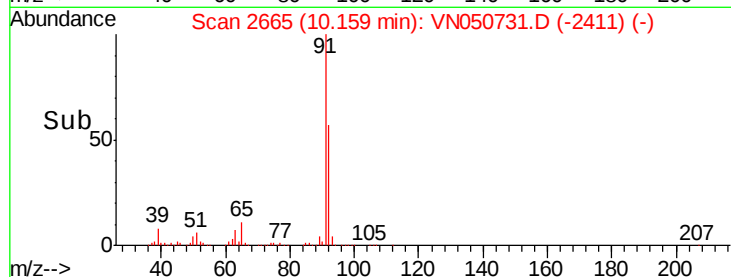
39 1146.0 36.3 54.5#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Bromoform

Concen: 0.42 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.28 min

Lab File: VN050731.D

Acq: 17 Aug 2018 15:37

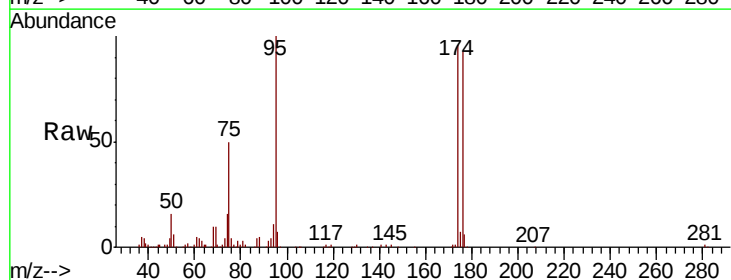
Tgt Ion: 173 Resp: 2272

Ion Ratio Lower Upper

173 100

175 583.2 38.6 57.8#

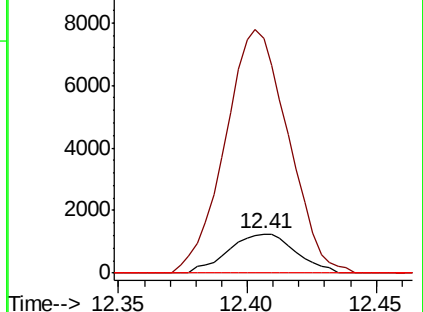
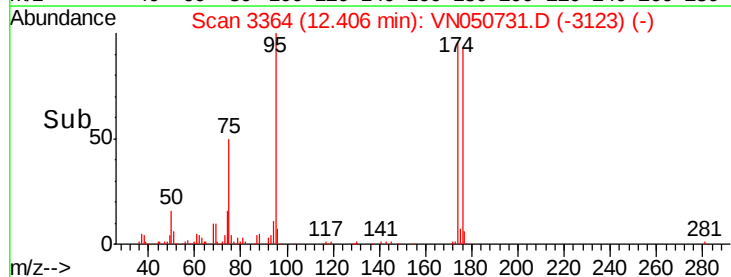
254 0.0 8.8 13.2#

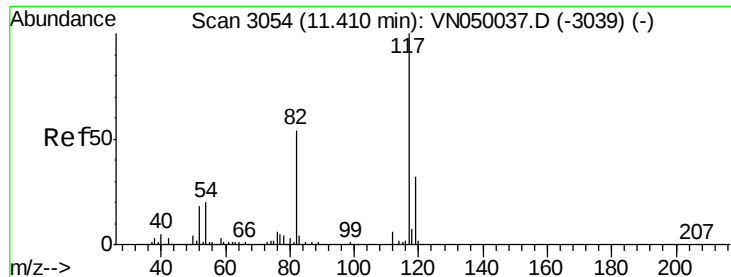


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V





#57

Chlorobenzene-d5

Concen: 30.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN050731.D

Acq: 17 Aug 2018 15:37

Instrument :

MSVOA_N

ClientSampled :

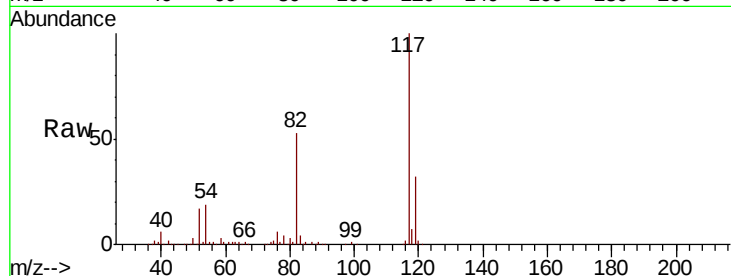
Tot Ion:117 Resp: 503348

Ion	Ratio	Lower	Upper
117	100		
82	53.4	42.4	63.6
119	32.6	25.4	38.0

117 100

82 53.4 42.4 63.6

119 32.6 25.4 38.0

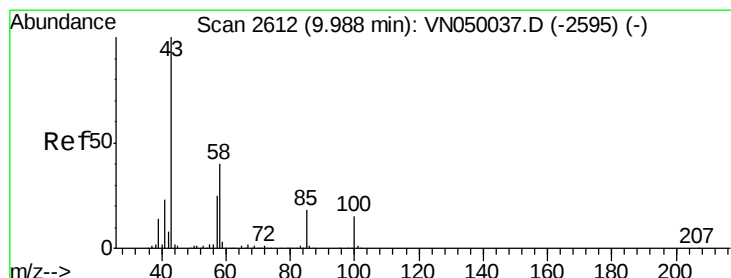
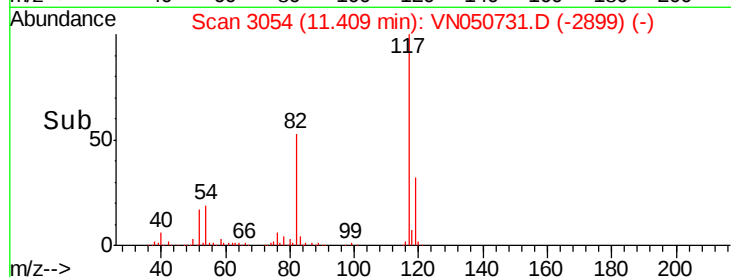
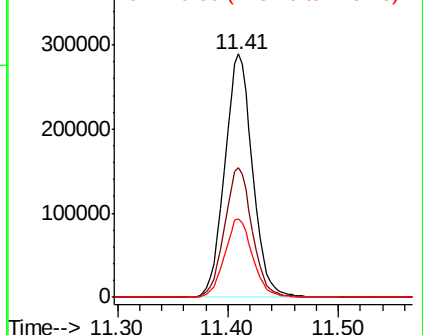


Abundance

Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#58

4-Methyl-2-Pentanone

Concen: 2.55 ug/l

RT: 9.99 min Scan# 2612

Delta R.T. -0.00 min

Lab File: VN050731.D

Acq: 17 Aug 2018 15:37

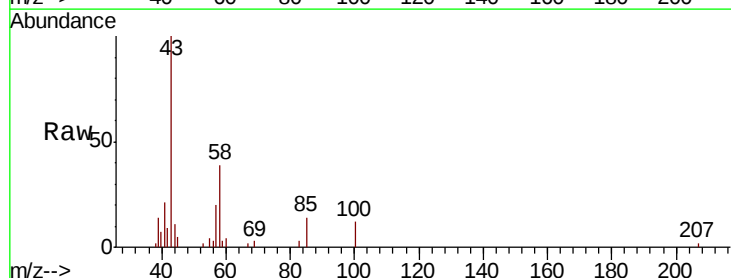
Tgt Ion: 43 Resp: 14929

Ion	Ratio	Lower	Upper
43	100		
58	38.3	31.2	46.8
85	16.6	14.4	21.6

43 100

58 38.3 31.2 46.8

85 16.6 14.4 21.6

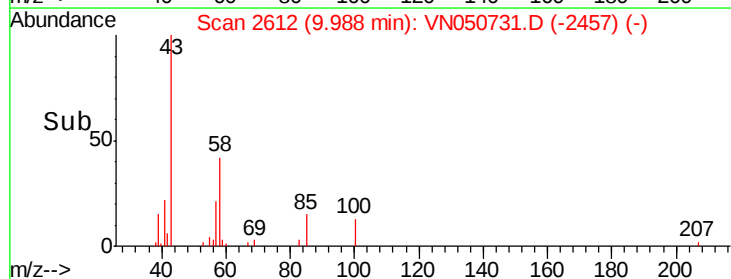
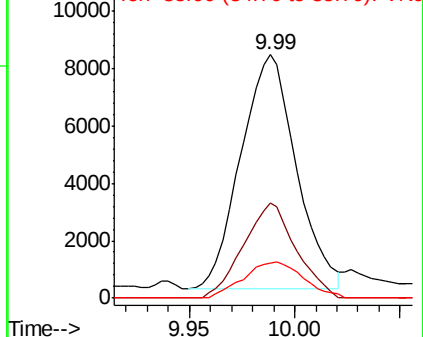


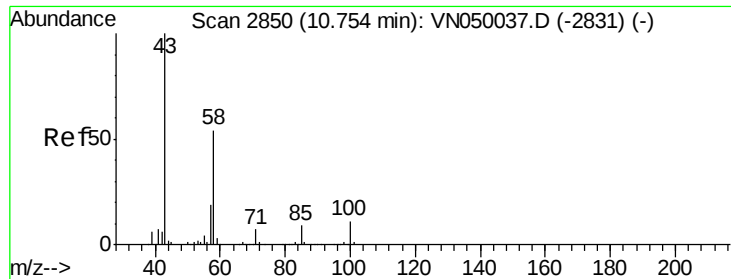
Abundance

Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V

Ion 85.00 (84.70 to 85.70): V

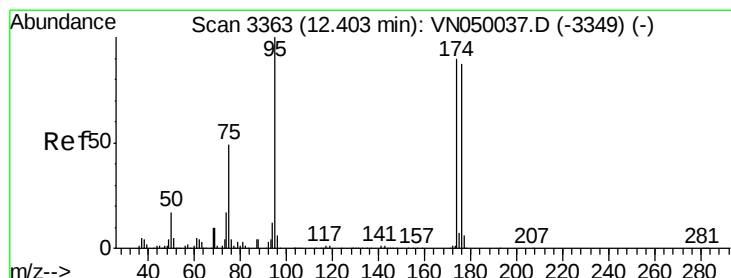
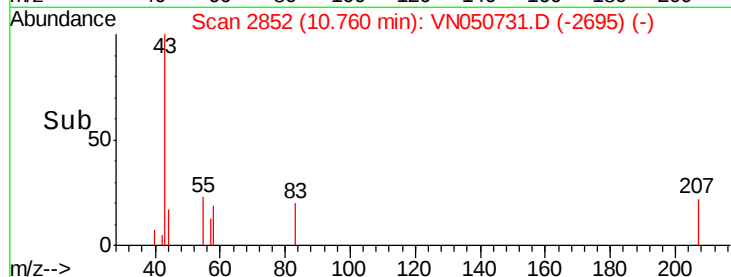
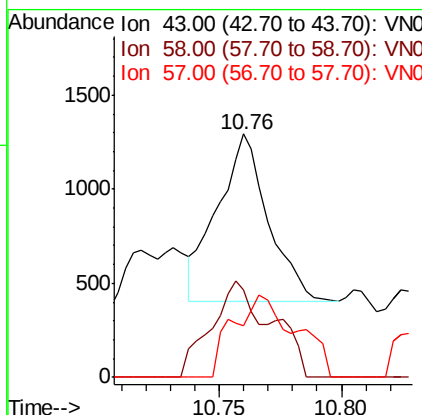
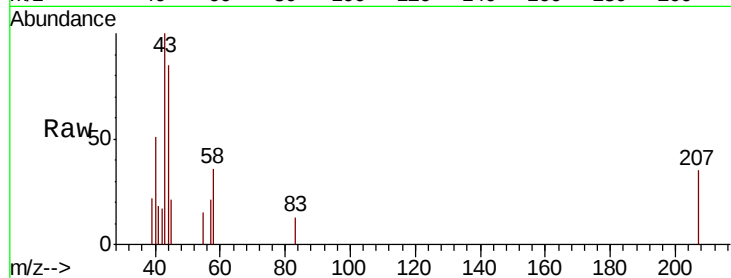




#59
2-Hexanone
Concen: 0.32 ug/l
RT: 10.76 min Scan# 2852
Delta R.T. 0.01 min
Lab File: VN050731.D
Acq: 17 Aug 2018 15:37

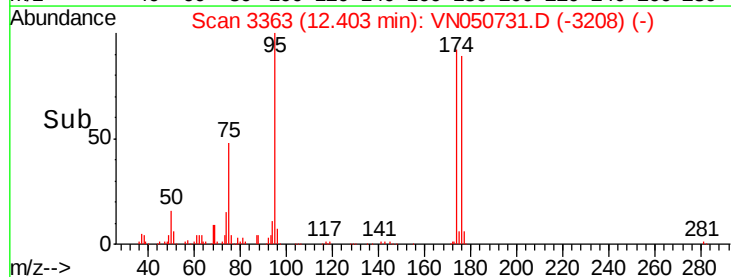
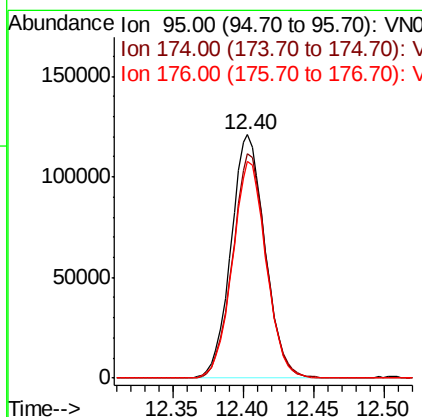
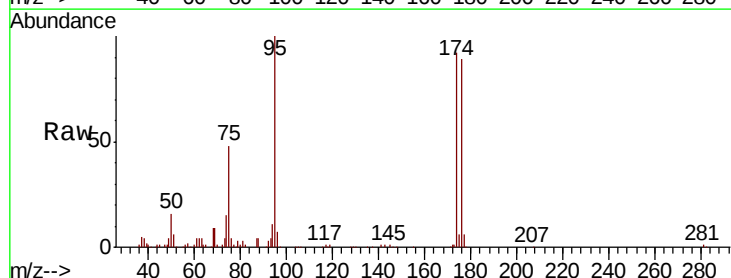
Instrument :
MSVOA_N
ClientSampleId :

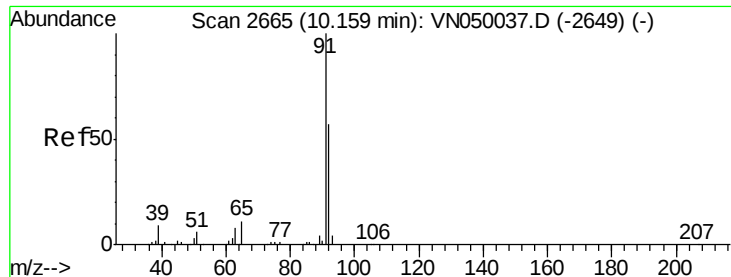
Tot Ion	43	Resp	1295
Ion Ratio	Lower	Upper	
43	100		
58	52.1	43.8	65.8
57	16.4	15.1	22.7



#60
4-Bromofluorobenzene
Concen: 26.39 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN050731.D
Acq: 17 Aug 2018 15:37

Tgt Ion	95	Resp	204106
Ion Ratio	Lower	Upper	
95	100		
174	91.4	72.3	108.5
176	88.0	70.0	105.0





#62

Toluene

Concen: 79.72 ug/l

RT: 10.16 min Scan# 2665

Delta R.T. -0.00 min

Lab File: VN050731.D

Acq: 17 Aug 2018 15:37

Instrument :

MSVOA_N

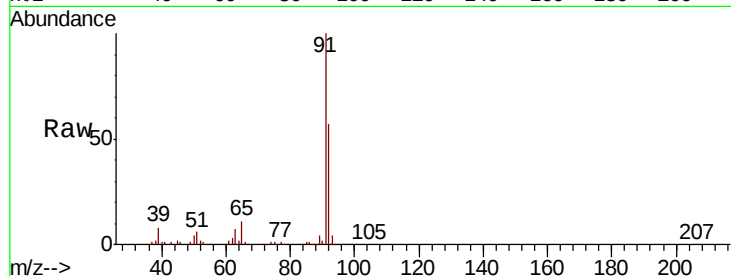
ClientSampled :

Tot Ion: 91 Resp: 2289466

Ion Ratio Lower Upper

91 100

92 56.9 45.7 68.5



Abundance Ion 91.00 (90.70 to 91.70): VN050037.D (-2649) (-)

Ion 92.00 (91.70 to 92.70): VN050037.D (-2649) (-)

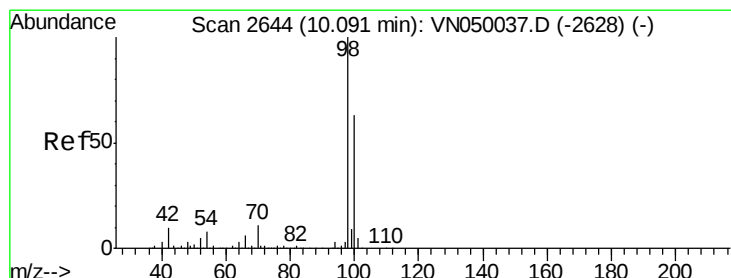
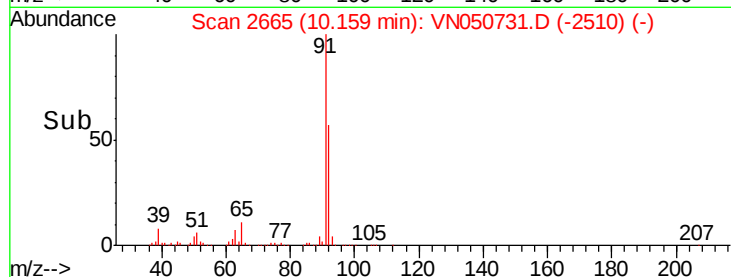
10.16

1000000

500000

0

Time-->



#63

Toluene-d8

Concen: 28.81 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050731.D

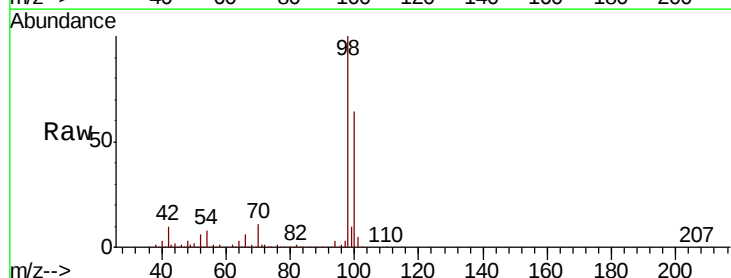
Acq: 17 Aug 2018 15:37

Tgt Ion: 98 Resp: 692552

Ion Ratio Lower Upper

98 100

100 63.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN050037.D (-2628) (-)

Ion 100.00 (99.70 to 100.70): VN050037.D (-2628) (-)

10.09

400000

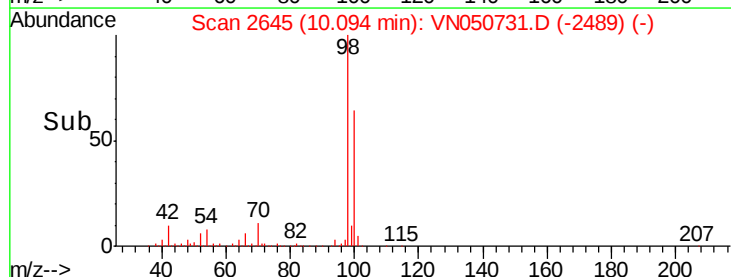
300000

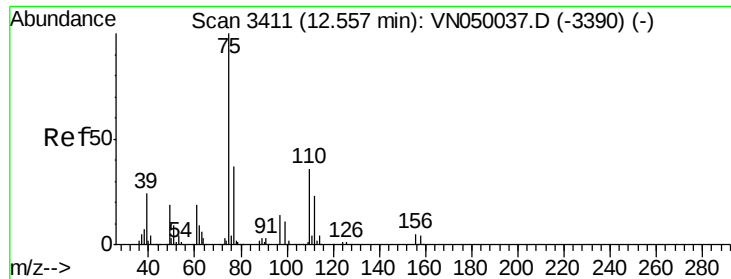
200000

100000

0

Time-->





#72

1,2,3-Trichloropropane

Concen: 14.41 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050731.D

Acq: 17 Aug 2018 15:37

Instrument :

MSVOA_N

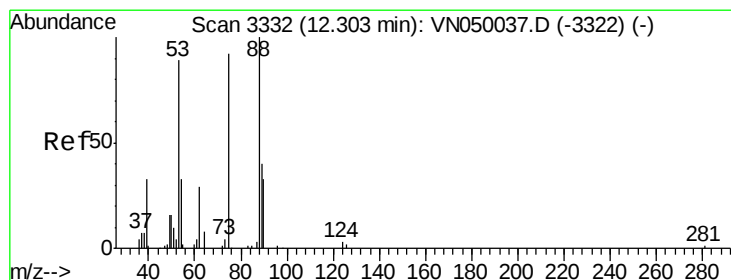
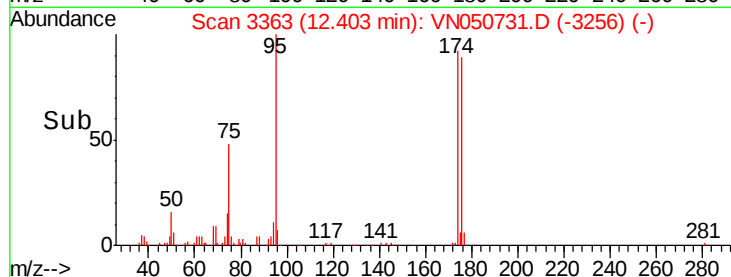
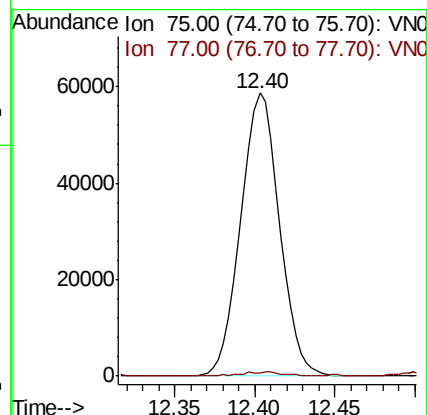
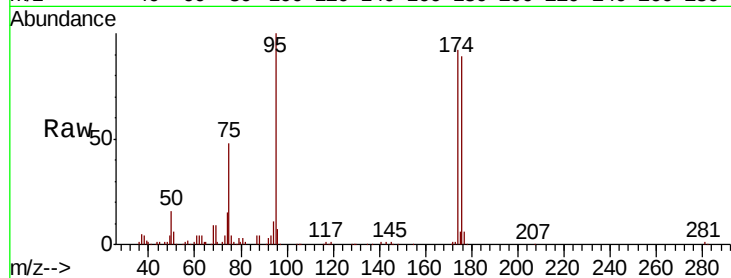
ClientSampleId :

Tot Ion: 75 Resp: 96697

Ion Ratio Lower Upper

75 100

77 0.9 0.0 454.4



#77

t-1,4-Dichloro-2-butene

Concen: 44.07 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050731.D

Acq: 17 Aug 2018 15:37

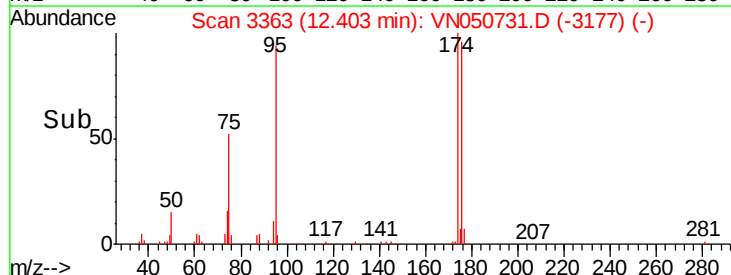
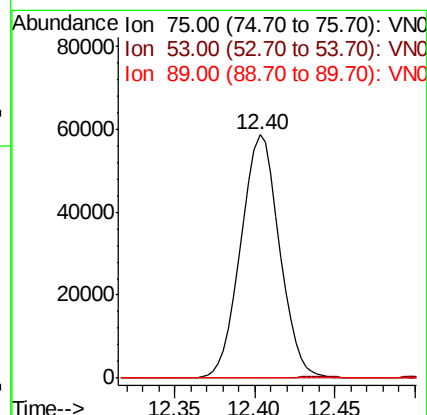
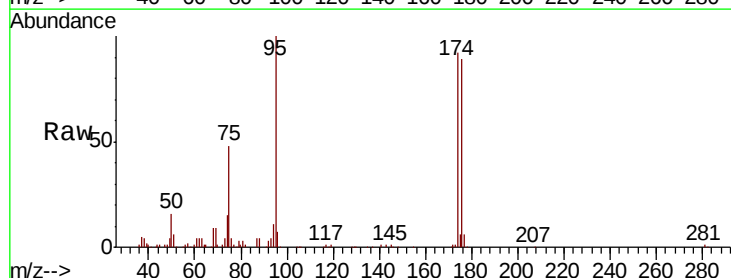
Tgt Ion: 75 Resp: 96697

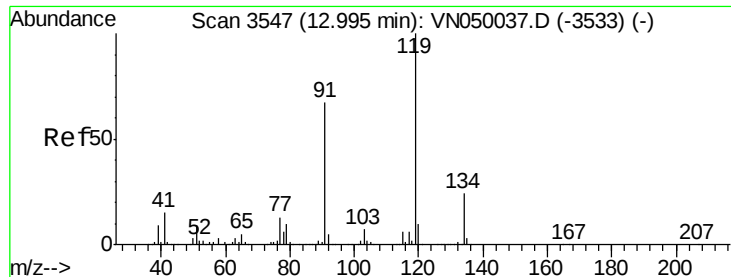
Ion Ratio Lower Upper

75 100

53 0.0 44.6 134.0#

89 0.0 20.7 62.1#

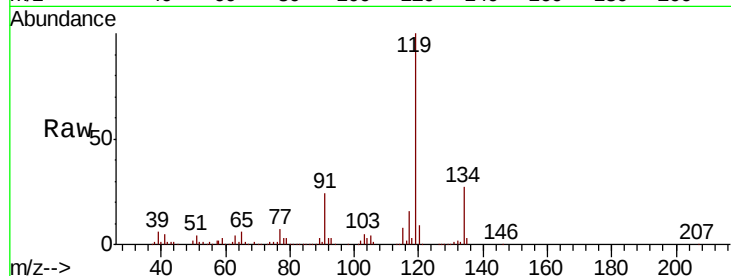




#79
tert-butylbenzene
Concen: 11.17 ug/l
RT: 13.29 min Scan# 3639
Delta R.T. 0.30 min
Lab File: VN050731.D
Acq: 17 Aug 2018 15:37

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
119	100		
91	23.9	0.0	126.8
134	26.9	0.0	47.4

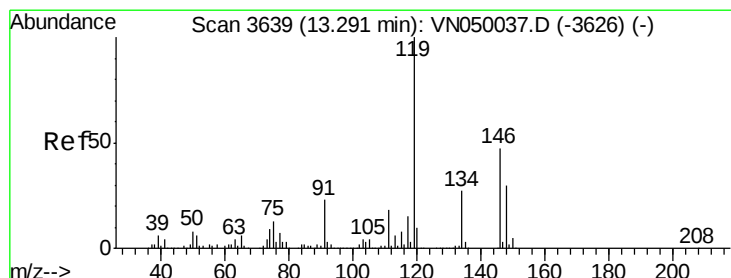
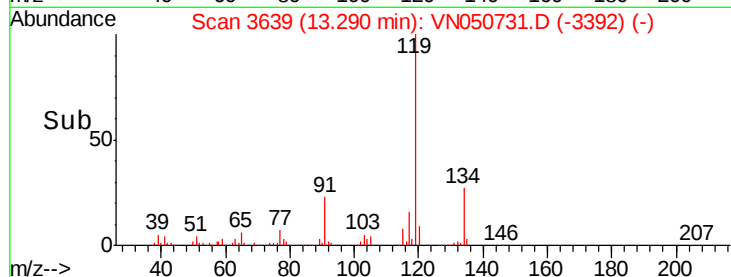
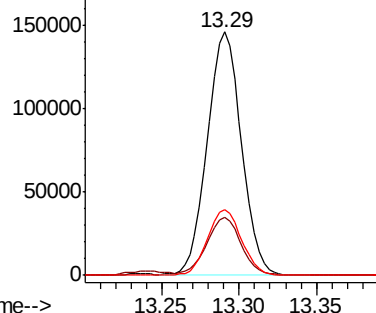


Abundance

Ion 119.00 (118.70 to 119.70): V

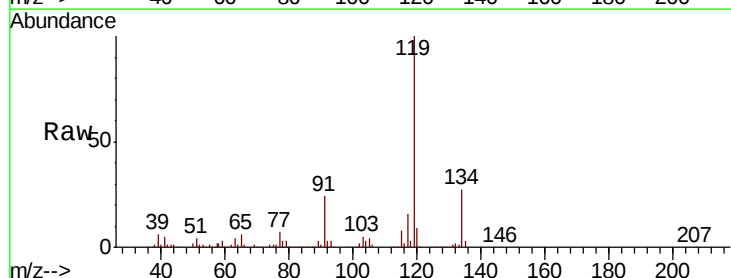
Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



#82
p-Isopropyltoluene
Concen: 9.64 ug/l
RT: 13.29 min Scan# 3639
Delta R.T. -0.00 min
Lab File: VN050731.D
Acq: 17 Aug 2018 15:37

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.9	0.0	52.2
91	24.1	0.0	45.6

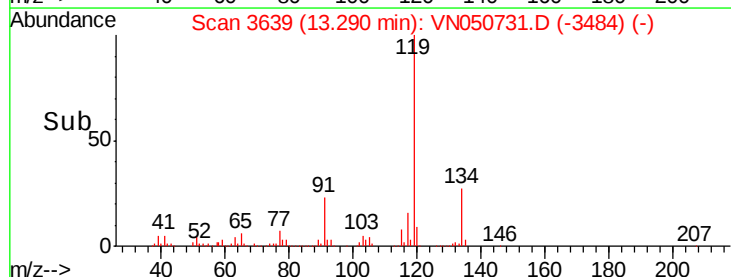
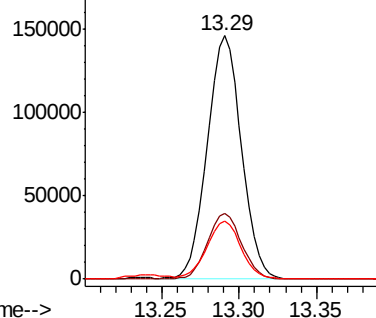


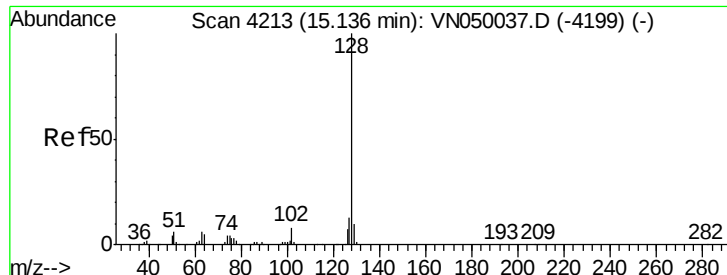
Abundance

Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V

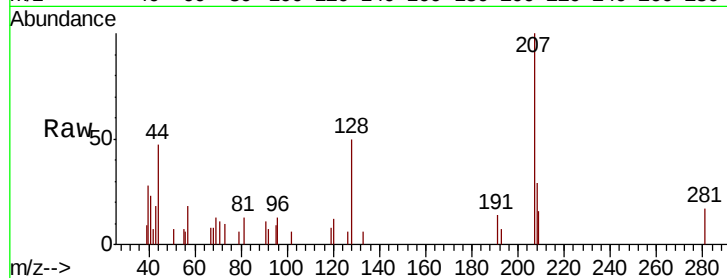




#91
Naphthalene
Concen: 7.75 ug/l
RT: 15.13 min Scan# 4211
Delta R.T. -0.01 min
Lab File: VN050731.D
Acq: 17 Aug 2018 15:37

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	9.0	13.4#



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

