

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082718\
 Data File : VN050904.D
 Acq On : 27 Aug 2018 19:04
 Operator : MD\SY
 Sample : J4674-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002M-35TH-AVE(JULY)

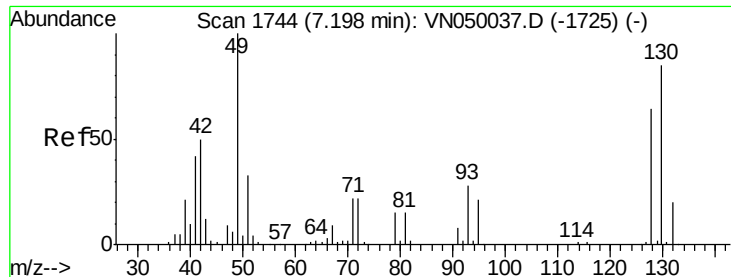
Quant Time: Aug 28 01:58:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	107344	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	542523	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	461232	30.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
27) 1,2-Dichloroethane-d4		8.03	65	213312	29.24	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.47%	
60) 4-Bromofluorobenzene		12.40	95	159516	22.51	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	75.03%	
63) Toluene-d8		10.09	98	643195	29.20	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.33%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	2.05	50	2058	0.27	ug/l	93
5) Bromomethane	2.57	94	2601	0.53	ug/l	98
12) Methyl Acetate	4.34	43	8108	1.24	ug/l #	85
13) Acrolein	3.82	56	308	0.76	ug/l #	1
15) Acetone	3.82	58	878001	1510.17	ug/l	88
16) Carbon Disulfide	4.05	76	5626	0.32	ug/l #	93
18) Methylene Chloride	4.55	84	4518	0.68	ug/l	97
23) tert-Butyl Alcohol	4.80	59	180	0.37	ug/l #	100
25) Chloroform	7.37	83	107634	9.12	ug/l	98
30) 2-Butanone	6.85	43	39554	14.97	ug/l #	96
38) Methylcyclohexane	9.41	83	9826	1.11	ug/l #	18
41) Bromodichloromethane	9.41	83	9826	1.12	ug/l #	97
49) cis-1,3-Dichloropropene	10.16	75	7725	0.79	ug/l #	1
51) Ethyl methacrylate	10.09	69	2106	0.29	ug/l	80
58) 4-Methyl-2-Pentanone	9.99	43	8747	1.63	ug/l #	91
62) Toluene	10.16	91	1340447	50.94	ug/l	99
77) t-1,4-Dichloro-2-butene	12.40	75	74150	36.88	ug/l #	14
79) tert-butylbenzene	13.29	119	12006	0.65	ug/l	65
82) p-Isopropyltoluene	13.29	119	12006	0.56	ug/l	92
91) Naphthalene	15.13	128	1788	7.74	ug/l #	81

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



#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VN050904.D

Acq: 27 Aug 2018 19:04

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(JULY)

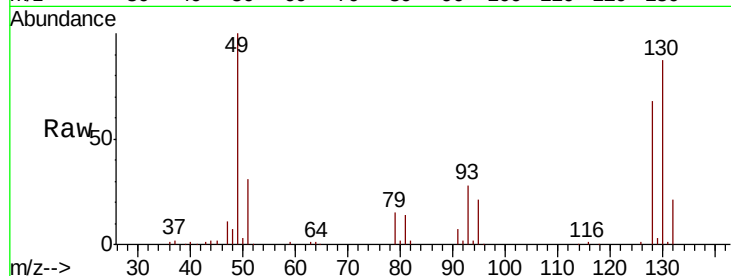
Tot Ion:128 Resp: 107344

Ion Ratio Lower Upper

128 100

49 147.4 0.0 378.3

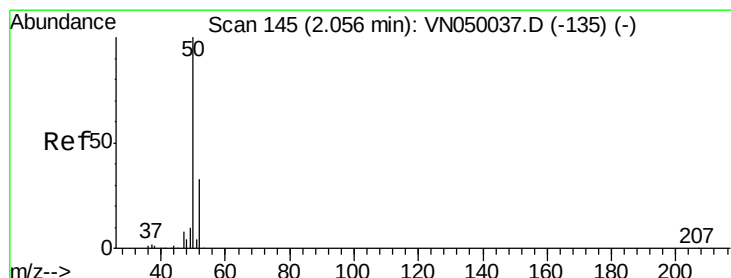
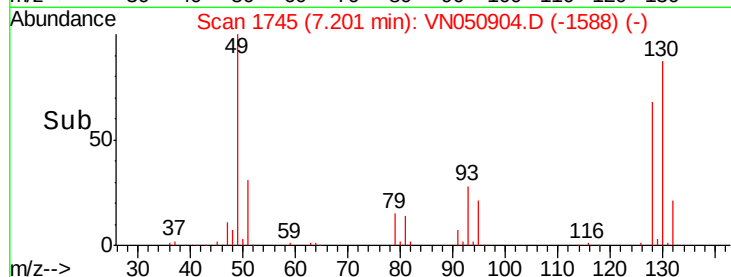
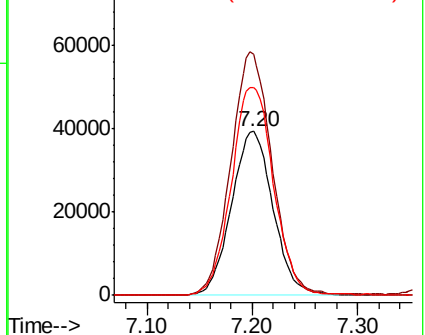
130 129.3 0.0 320.7



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.27 ug/l

RT: 2.05 min Scan# 144

Delta R.T. -0.00 min

Lab File: VN050904.D

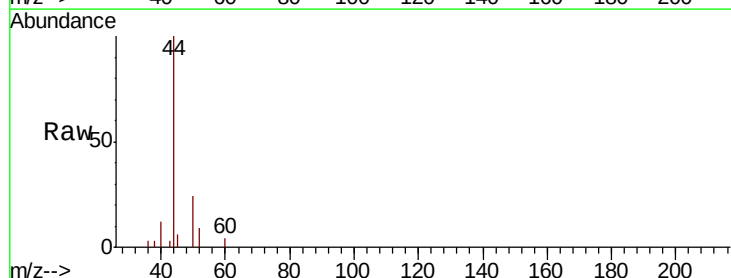
Acq: 27 Aug 2018 19:04

Tgt Ion: 50 Resp: 2058

Ion Ratio Lower Upper

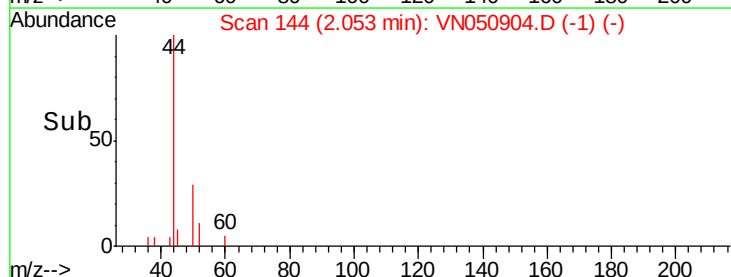
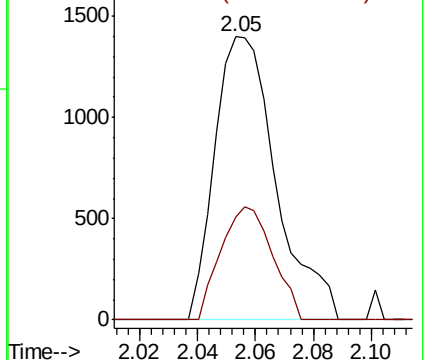
50 100

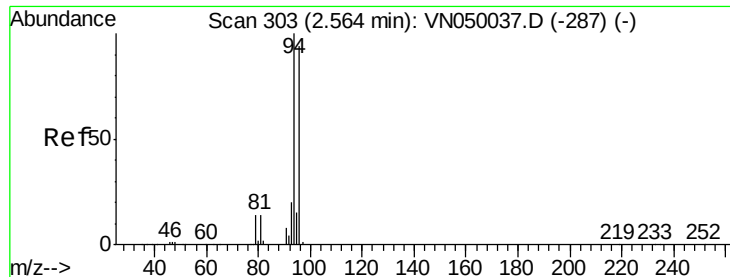
52 36.3 26.1 39.1



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#5

Bromomethane

Concen: 0.53 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN050904.D

Acq: 27 Aug 2018 19:04

Instrument :

MSVOA_N

ClientSampleId :

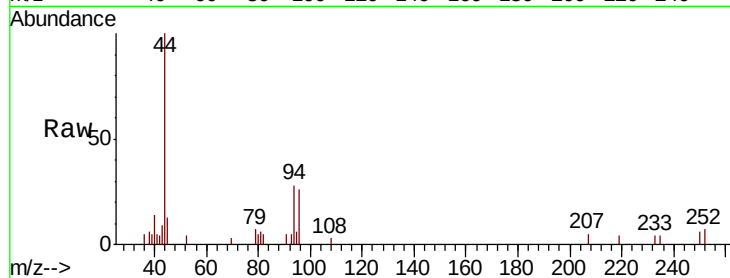
002M-35TH-AVE(JULY)

Tot Ion: 94 Resp: 2601

Ion Ratio Lower Upper

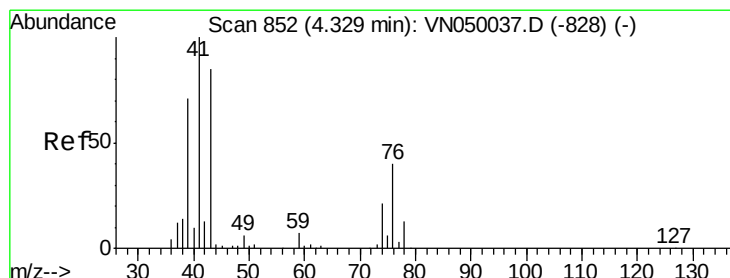
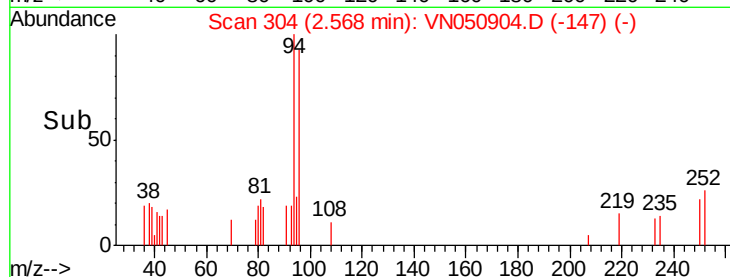
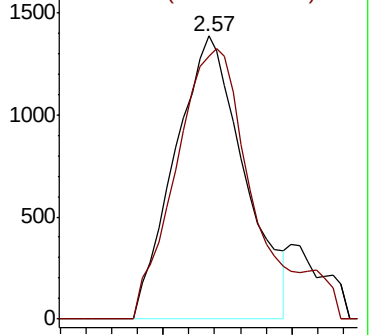
94 100

96 92.9 75.9 113.9



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#12

Methyl Acetate

Concen: 1.24 ug/l

RT: 4.34 min Scan# 854

Delta R.T. 0.01 min

Lab File: VN050904.D

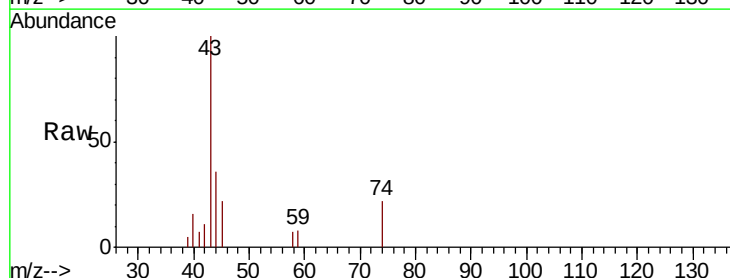
Acq: 27 Aug 2018 19:04

Tgt Ion: 43 Resp: 8108

Ion Ratio Lower Upper

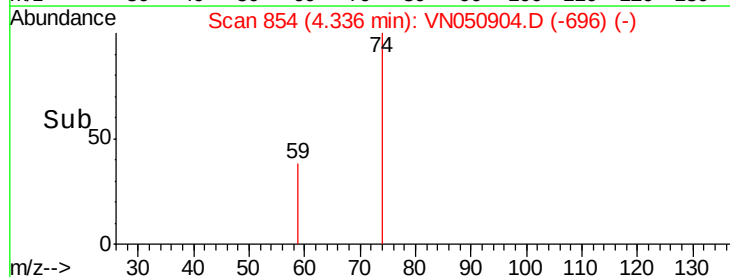
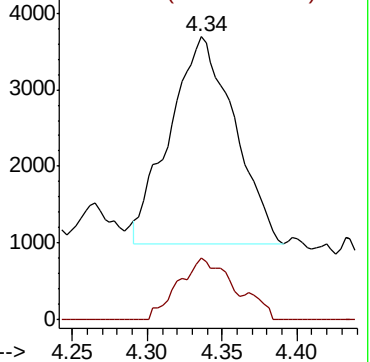
43 100

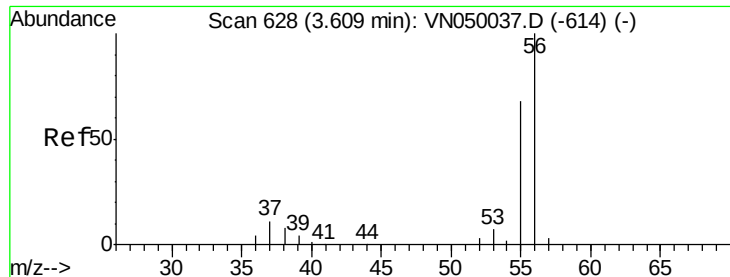
74 31.5 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#13

Acrolein

Concen: 0.76 ug/l

RT: 3.82 min Scan# 693

Delta R.T. 0.21 min

Lab File: VN050904.D

Acq: 27 Aug 2018 19:04

Instrument :

MSVOA_N

ClientSampleId :

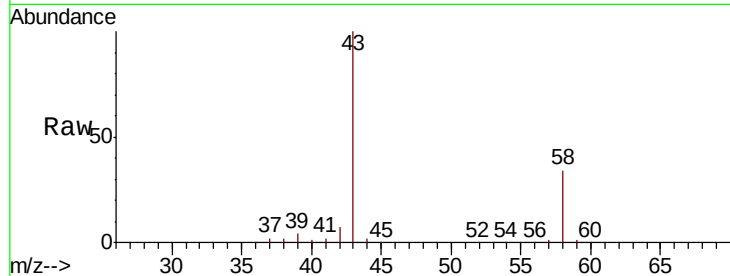
002M-35TH-AVE(JULY)

Tot Ion: 56 Resp: 308

Ion Ratio Lower Upper

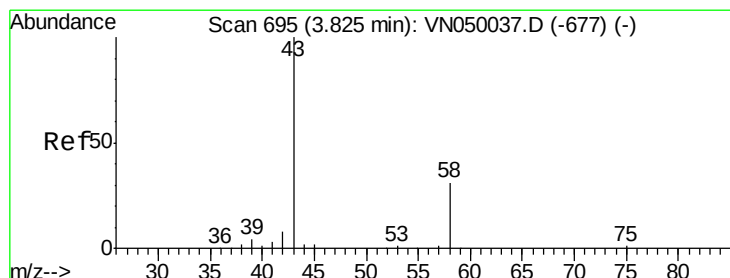
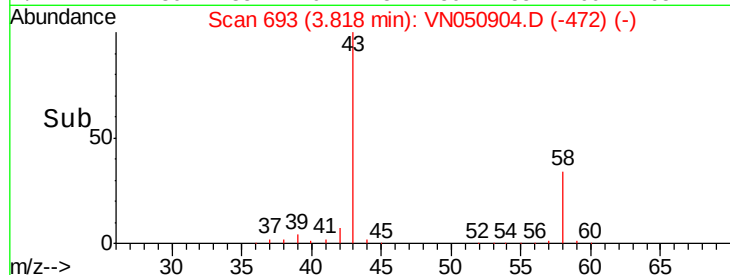
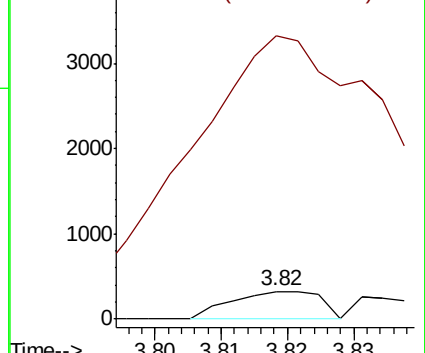
56 100

55 2745.5 58.6 88.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acetone

Concen: 1510.17 ug/l

RT: 3.82 min Scan# 694

Delta R.T. -0.00 min

Lab File: VN050904.D

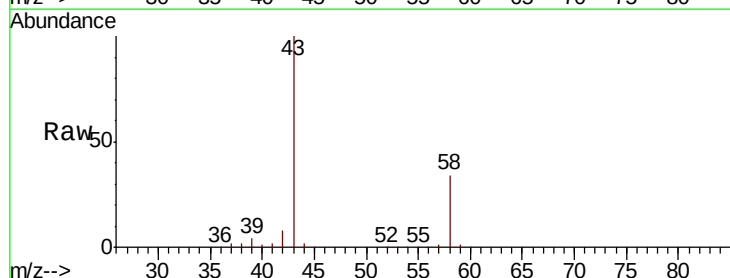
Acq: 27 Aug 2018 19:04

Tgt Ion: 58 Resp: 878001

Ion Ratio Lower Upper

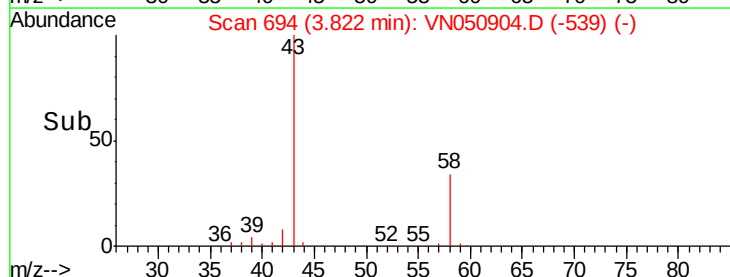
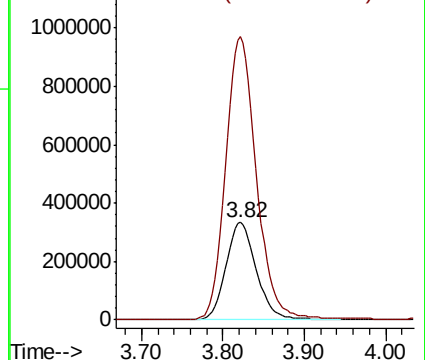
58 100

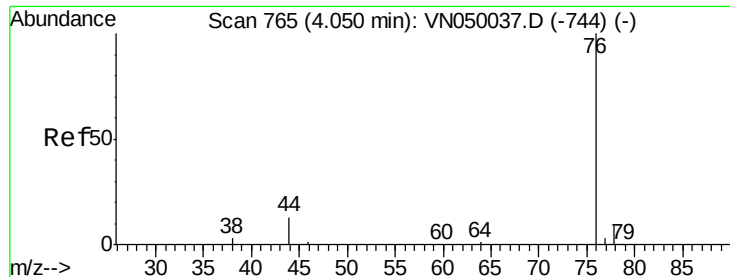
43 290.5 252.0 378.0



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#16

Carbon Disulfide

Concen: 0.32 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050904.D

Acq: 27 Aug 2018 19:04

Instrument :

MSVOA_N

ClientSampleId :

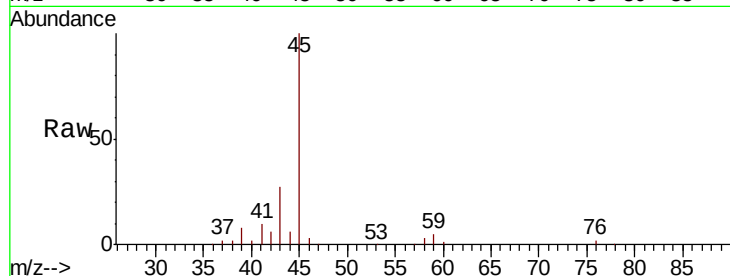
002M-35TH-AVE(JULY)

Tot Ion: 76 Resp: 5626

Ion Ratio Lower Upper

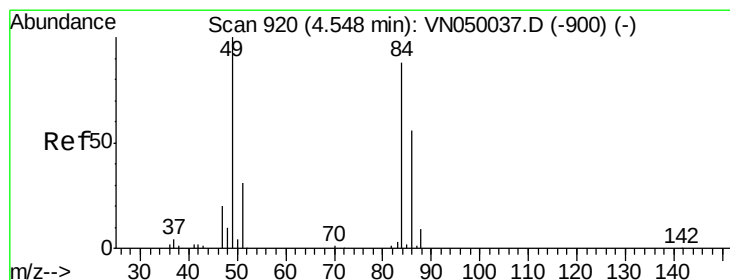
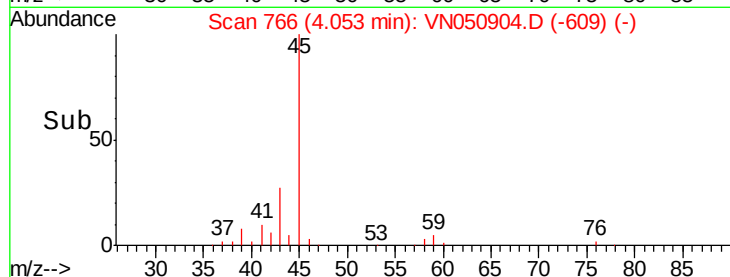
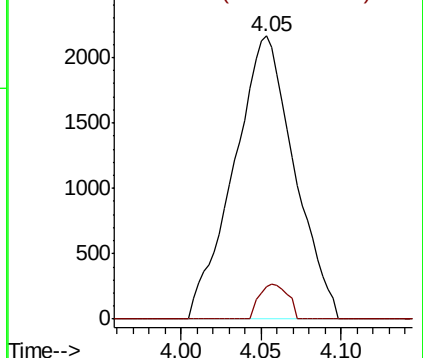
76 100

78 11.5 7.3 10.9#



Abundance Ion 76.00 (75.70 to 76.70): VNO

Ion 78.00 (77.70 to 78.70): VNO



#18

Methylene Chloride

Concen: 0.68 ug/l

RT: 4.55 min Scan# 922

Delta R.T. 0.01 min

Lab File: VN050904.D

Acq: 27 Aug 2018 19:04

Tgt Ion: 84 Resp: 4518

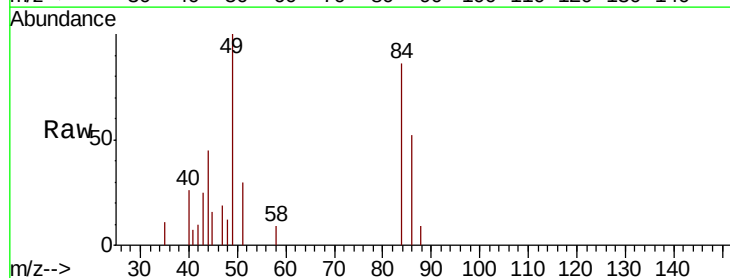
Ion Ratio Lower Upper

84 100

49 116.4 95.1 142.7

51 34.5 28.8 43.2

86 60.8 52.3 78.5

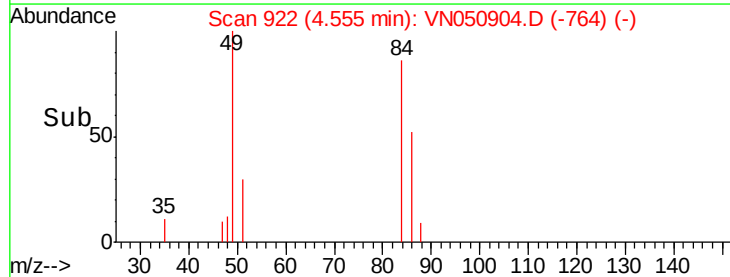
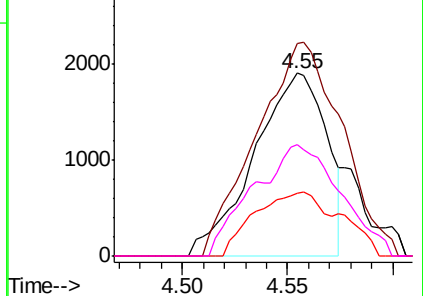


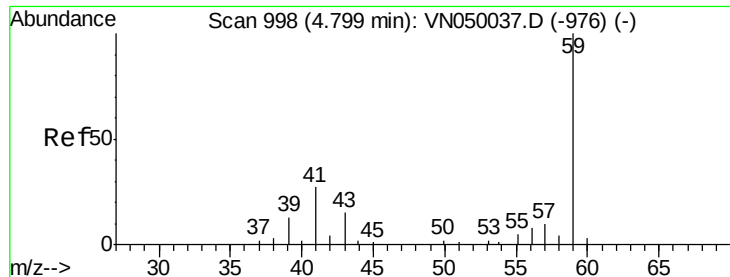
Abundance Ion 84.00 (83.70 to 84.70): VNO

Ion 49.00 (48.70 to 49.70): VNO

Ion 51.00 (50.70 to 51.70): VNO

Ion 86.00 (85.70 to 86.70): VNO





#23

tert-Butyl Alcohol

Concen: 0.37 ug/l

RT: 4.80 min Scan# 999

Delta R.T. 0.00 min

Lab File: VN050904.D

Acq: 27 Aug 2018 19:04

Instrument :

MSVOA_N

ClientSampleId :

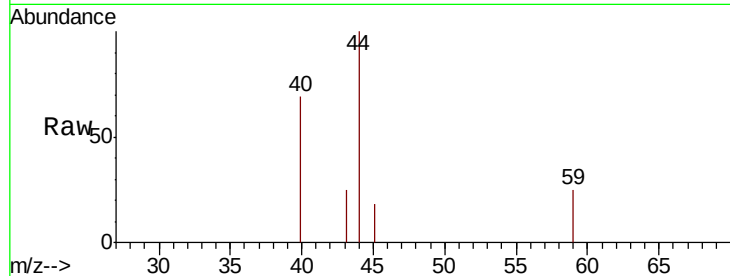
002M-35TH-AVE(JULY)

Tot Ion: 59 Resp: 180

Ion Ratio Lower Upper

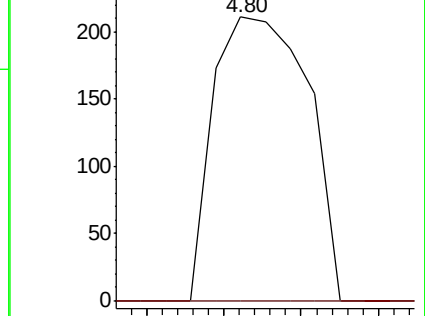
59 100

52 0.0 0.1 0.1#

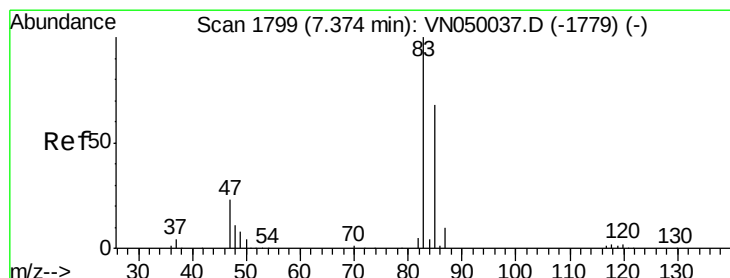
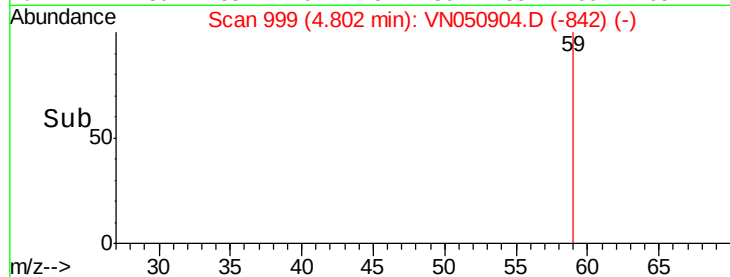


Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



Time-->



#25

Chloroform

Concen: 9.12 ug/l

RT: 7.37 min Scan# 1799

Delta R.T. 0.00 min

Lab File: VN050904.D

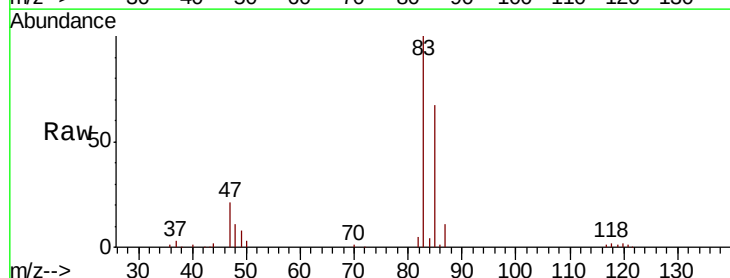
Acq: 27 Aug 2018 19:04

Tgt Ion: 83 Resp: 107634

Ion Ratio Lower Upper

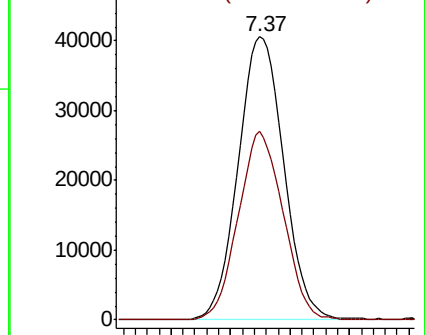
83 100

85 66.7 52.1 78.1

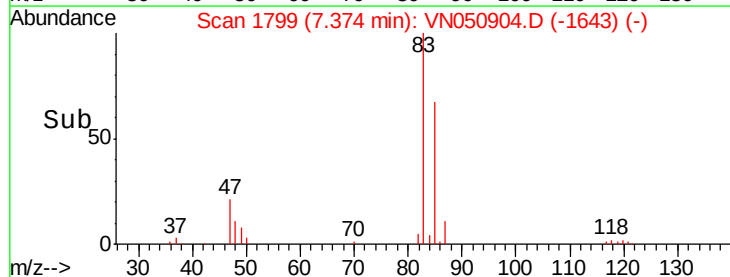


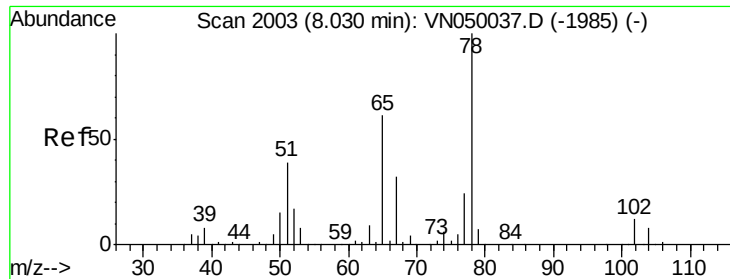
Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



Time-->

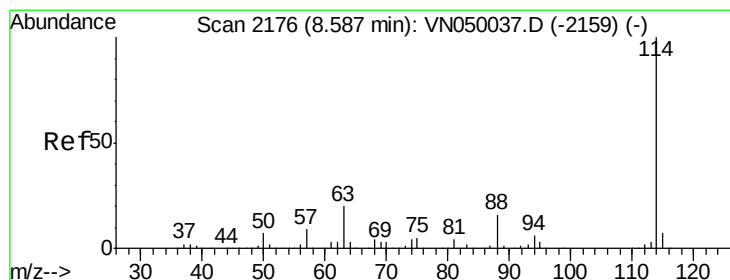
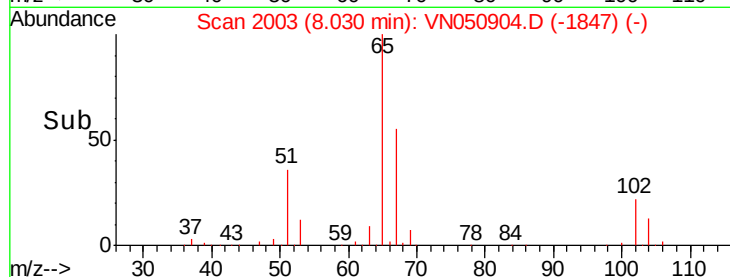
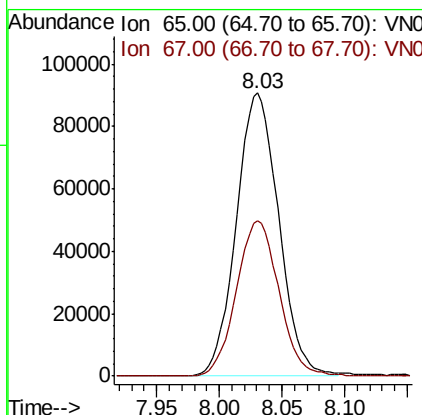
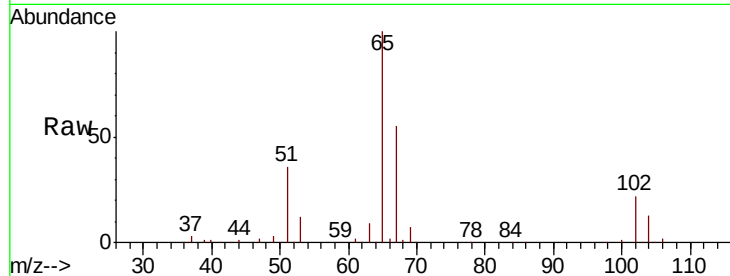




#27
 1,2-Dichloroethane-d4
 Concen: 29.24 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050904.D
 Acq: 27 Aug 2018 19:04

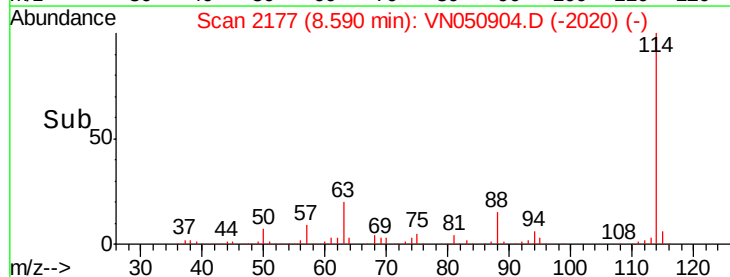
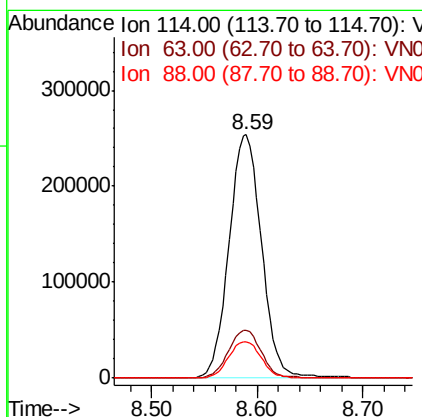
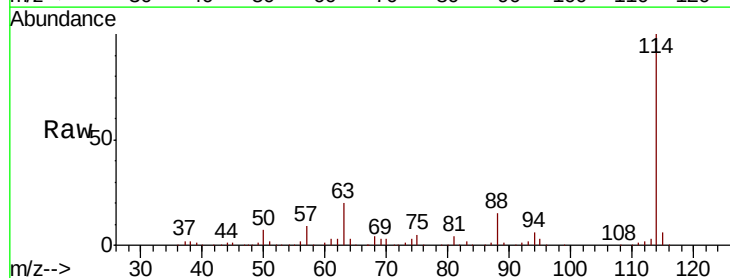
Instrument :
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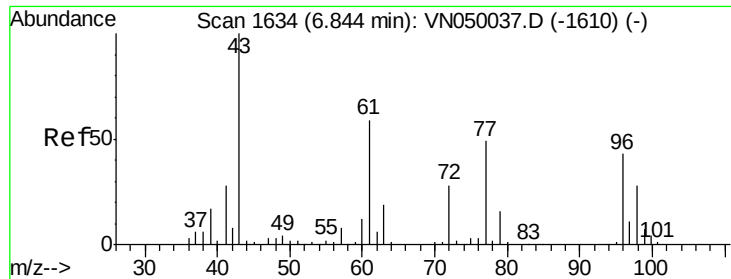
Tot Ion: 65 Resp: 213312
 Ion Ratio Lower Upper
 65 100
 67 55.1 42.7 64.1



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050904.D
 Acq: 27 Aug 2018 19:04

Tgt Ion: 114 Resp: 542523
 Ion Ratio Lower Upper
 114 100
 63 19.8 16.2 24.2
 88 15.1 12.3 18.5

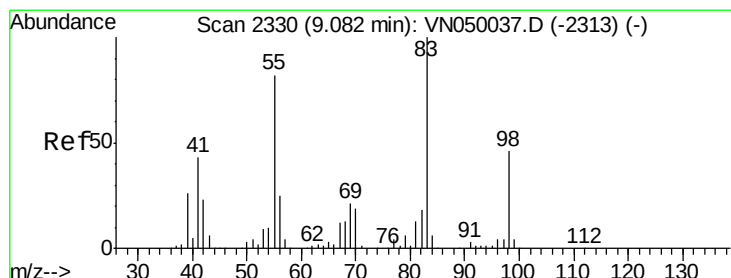
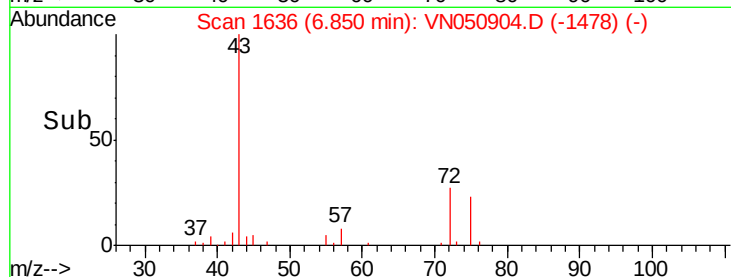
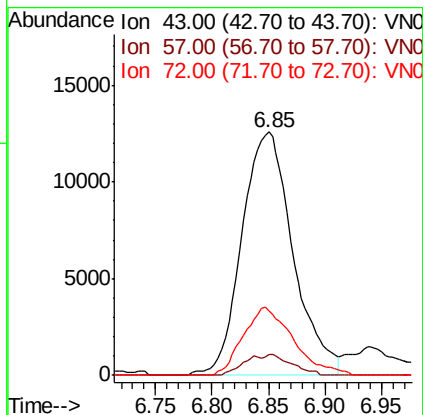
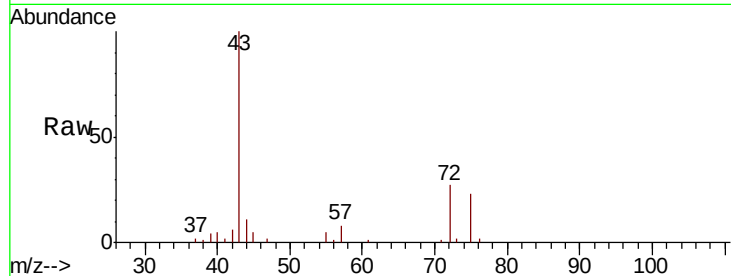




#30
2-Butanone
Concen: 14.97 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050904.D
Acq: 27 Aug 2018 19:04

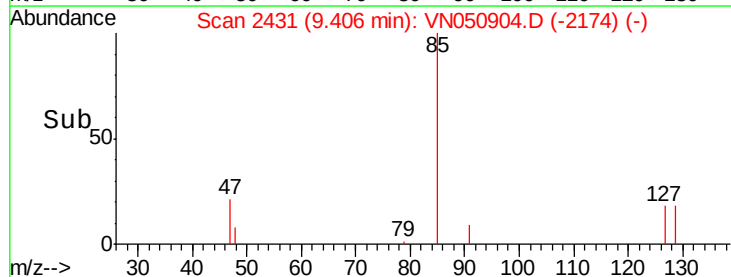
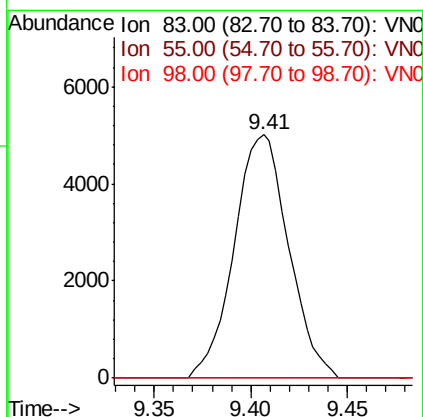
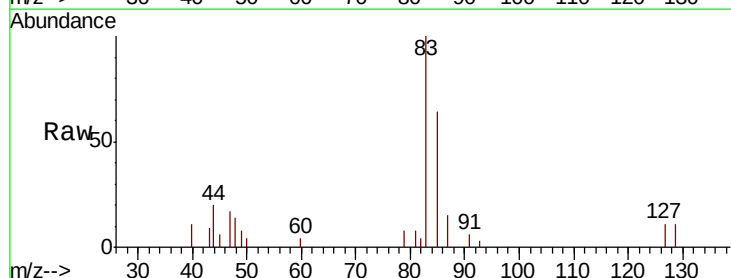
Instrument :
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002M-35TH-AVE(JULY)

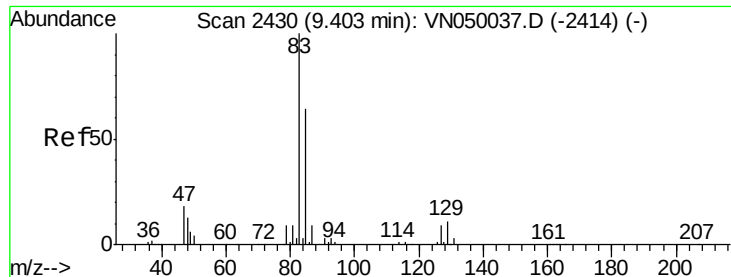
Tot Ion: 43 Resp: 39554
Ion Ratio Lower Upper
43 100
57 4.6 6.8 10.2#
72 27.3 21.4 32.0



#38
Methylcyclohexane
Concen: 1.11 ug/l
RT: 9.41 min Scan# 2431
Delta R.T. 0.32 min
Lab File: VN050904.D
Acq: 27 Aug 2018 19:04

Tgt Ion: 83 Resp: 9826
Ion Ratio Lower Upper
83 100
55 0.0 39.3 117.8#
98 0.0 23.0 69.0#

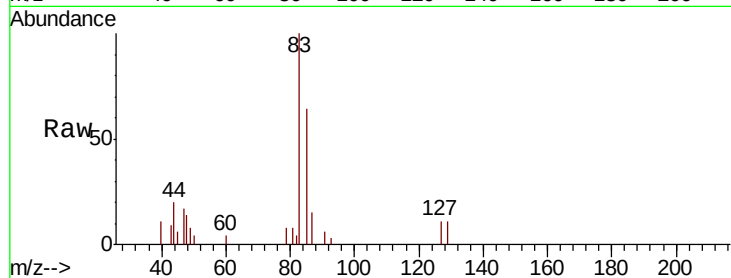




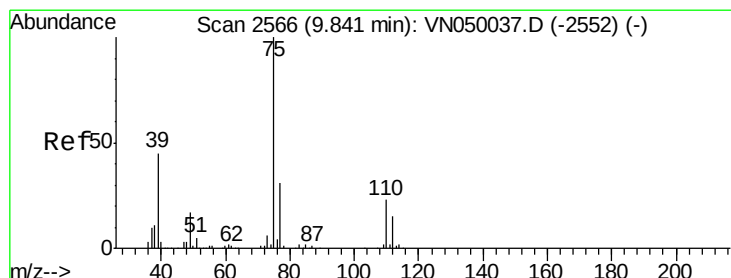
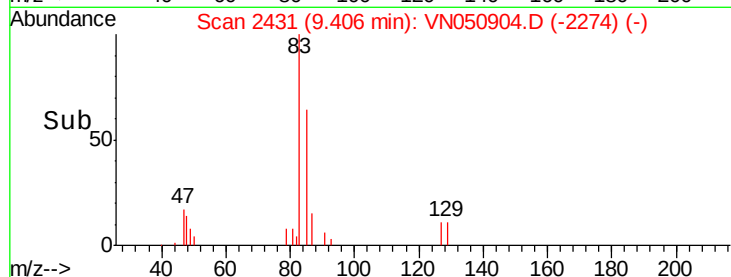
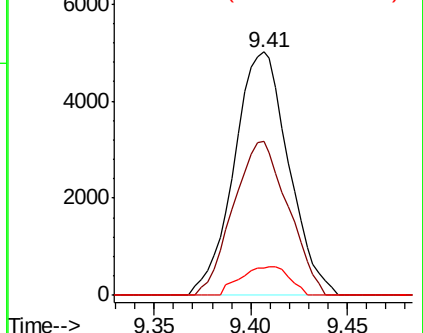
#41
 Bromodichloromethane
 Concen: 1.12 ug/l
 RT: 9.41 min Scan# 2431
 Delta R.T. 0.00 min
 Lab File: VN050904.D
 Acq: 27 Aug 2018 19:04

Instrument :
 MSVOA_N
 ClientSampleId :
 002M-35TH-AVE(JULY)

Tot Ion: 83 Resp: 9826
 Ion Ratio Lower Upper
 83 100
 85 63.5 52.6 78.8
 127 11.4 7.0 10.4#

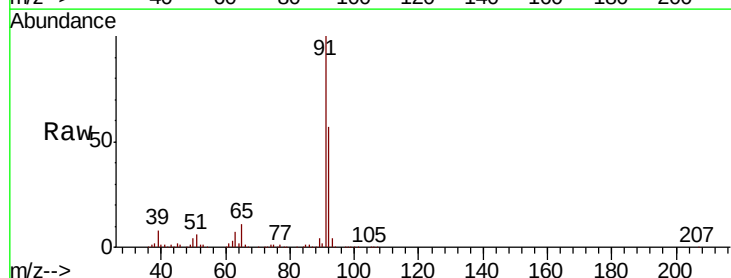


Abundance Ion 83.00 (82.70 to 83.70): VN0
 Ion 85.00 (84.70 to 85.70): VN0
 Ion 127.00 (126.70 to 127.70): V

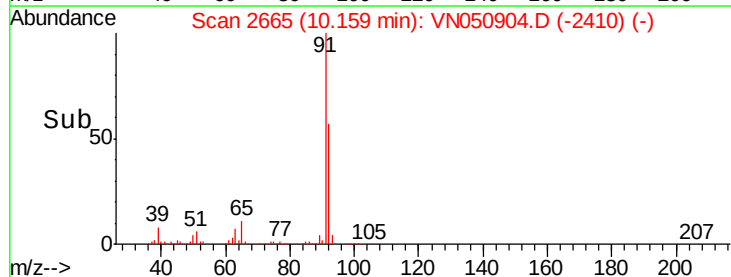
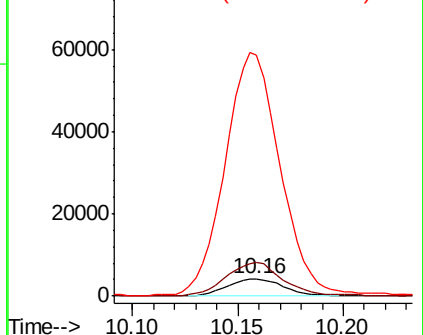


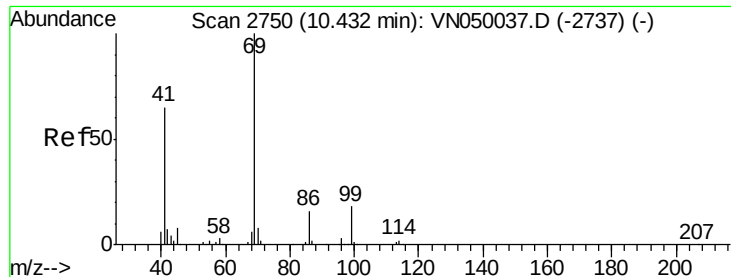
#49
 cis-1,3-Dichloropropene
 Concen: 0.79 ug/l
 RT: 10.16 min Scan# 2665
 Delta R.T. 0.32 min
 Lab File: VN050904.D
 Acq: 27 Aug 2018 19:04

Tgt Ion: 75 Resp: 7725
 Ion Ratio Lower Upper
 75 100
 77 186.8 25.7 38.5#
 39 1373.6 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

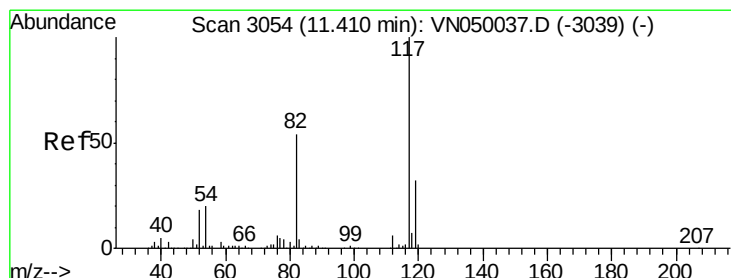
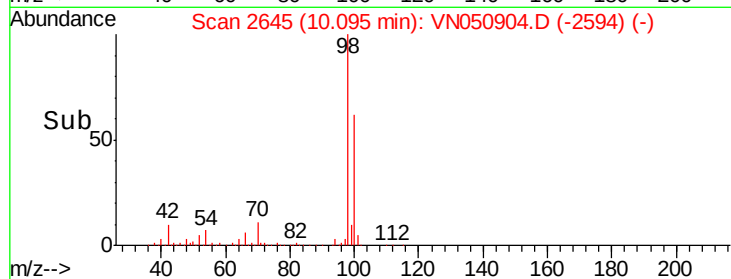
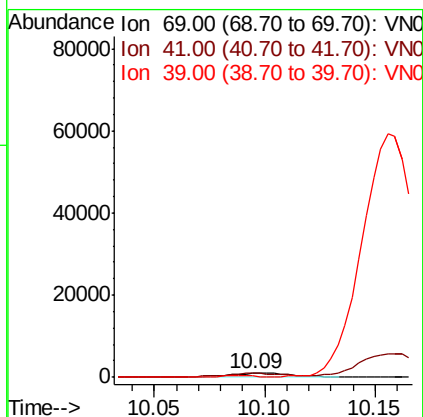
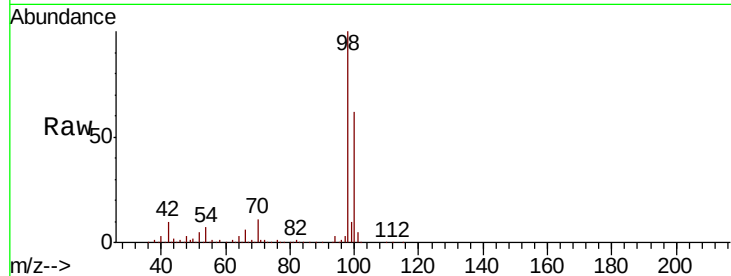




#51
Ethyl methacrylate
Concen: 0.29 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. -0.34 min
Lab File: VN050904.D
Acq: 27 Aug 2018 19:04

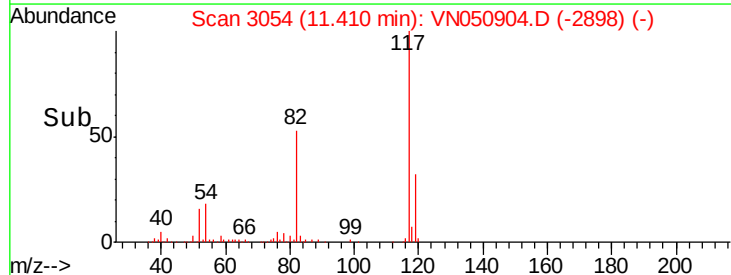
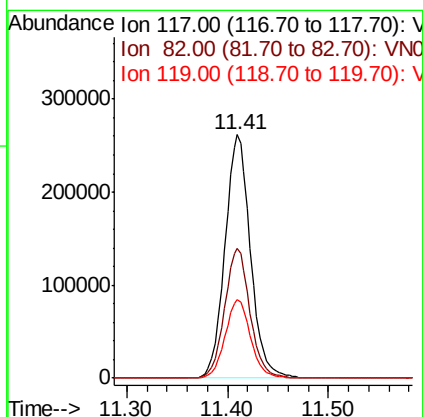
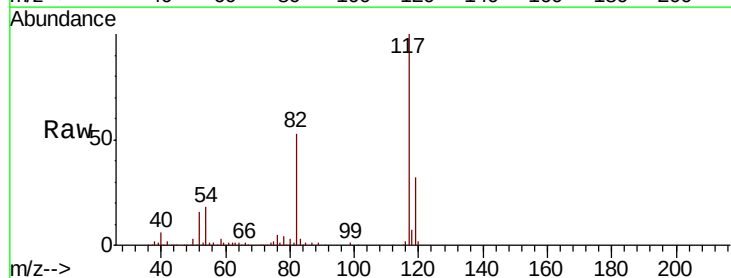
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(JULY)

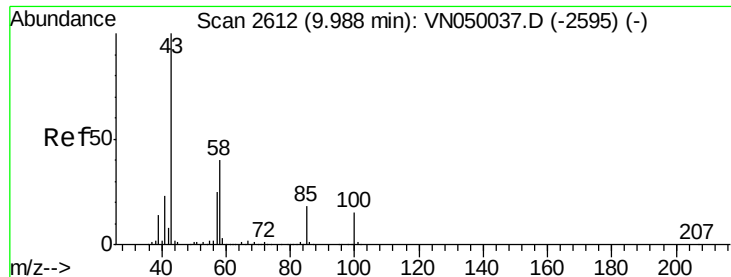
Tot Ion	Ratio	Lower	Upper
69	100		
41	85.6	31.9	95.9
39	30.8	16.7	50.1



#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050904.D
Acq: 27 Aug 2018 19:04

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.2	42.4	63.6
119	32.4	25.4	38.0

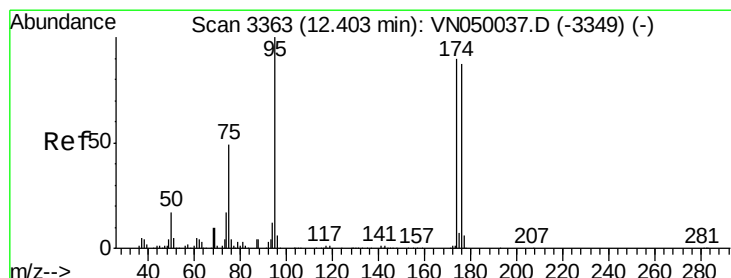
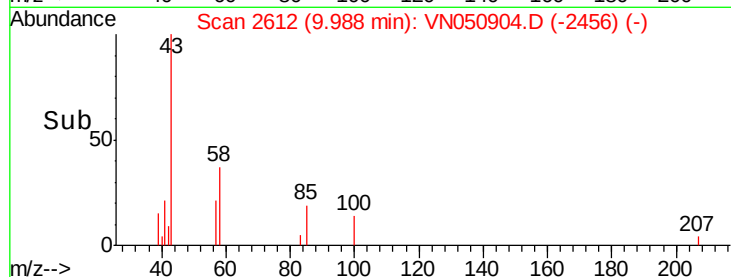
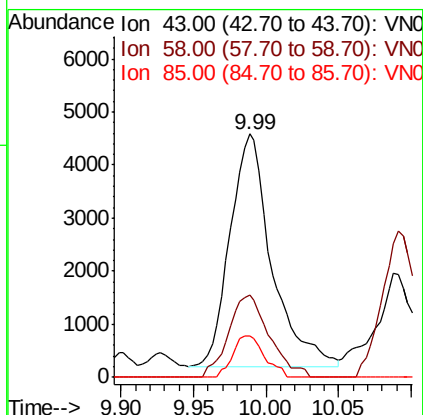
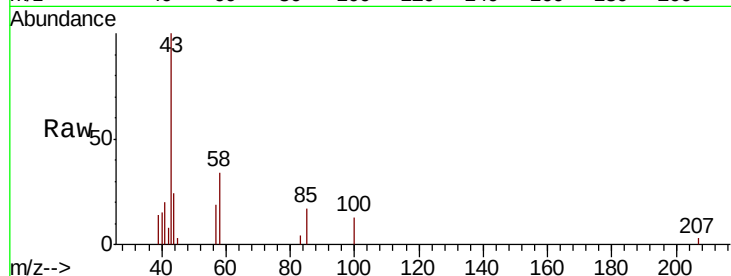




#58
4-Methyl-2-Pentanone
Concen: 1.63 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN050904.D
Acq: 27 Aug 2018 19:04

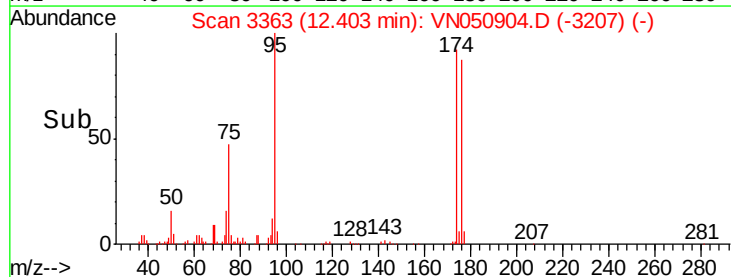
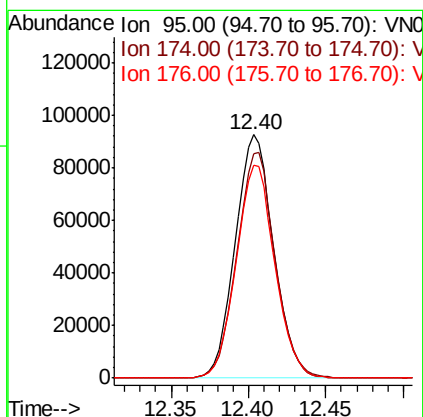
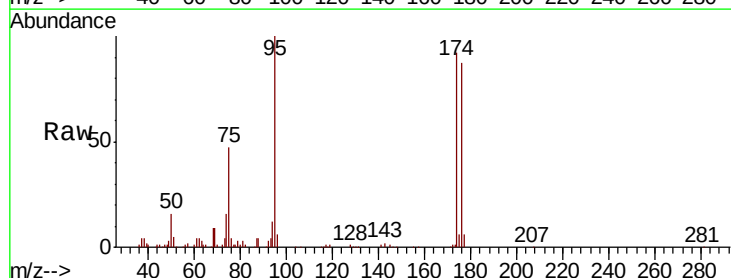
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(JULY)

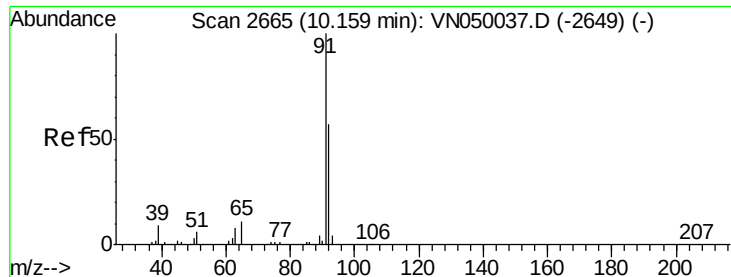
Tot Ion	Ratio	Lower	Upper
43	100		
58	34.0	31.2	46.8
85	13.6	14.4	21.6#



#60
4-Bromofluorobenzene
Concen: 22.51 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050904.D
Acq: 27 Aug 2018 19:04

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.6	72.3	108.5
176	88.1	70.0	105.0





#62

Toluene

Concen: 50.94 ug/l

RT: 10.16 min Scan# 2665

Delta R.T. 0.00 min

Lab File: VN050904.D

Acq: 27 Aug 2018 19:04

Instrument :

MSVOA_N

ClientSampleId :

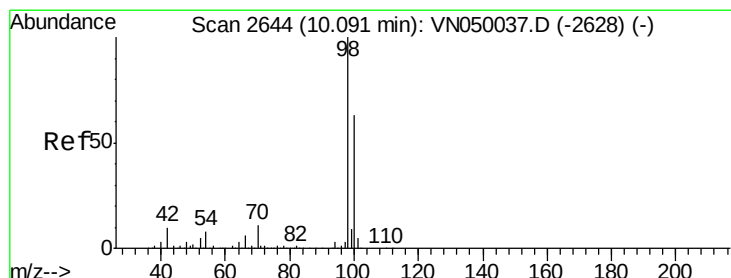
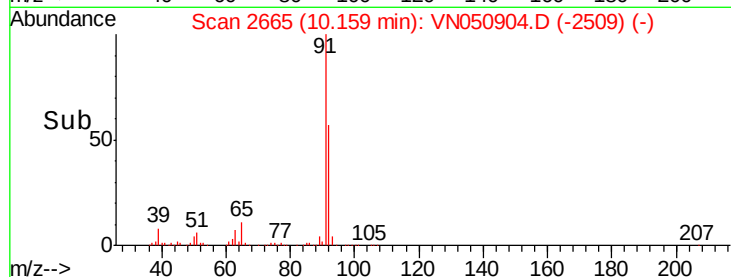
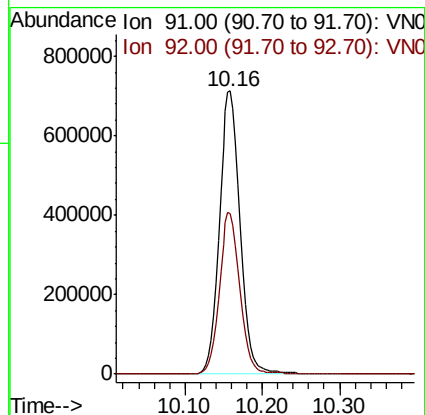
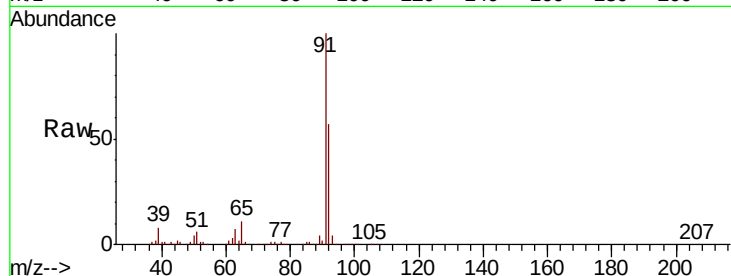
002M-35TH-AVE(JULY)

Tot Ion: 91 Resp: 1340447

Ion Ratio Lower Upper

91 100

92 56.4 45.7 68.5



#63

Toluene-d8

Concen: 29.20 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050904.D

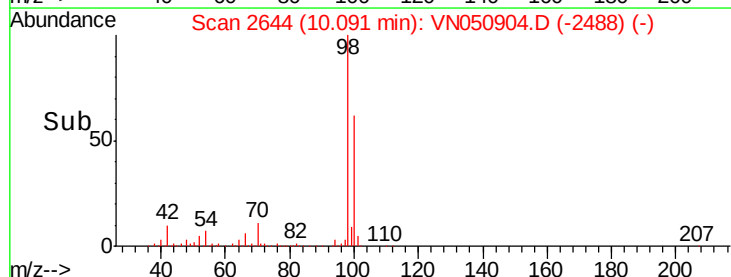
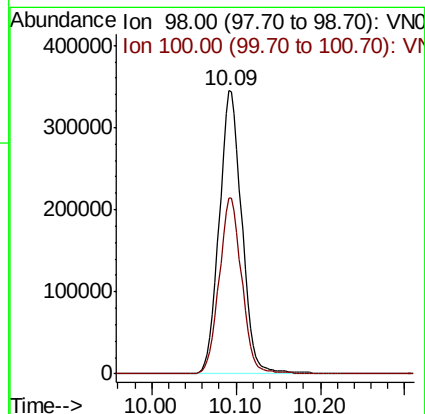
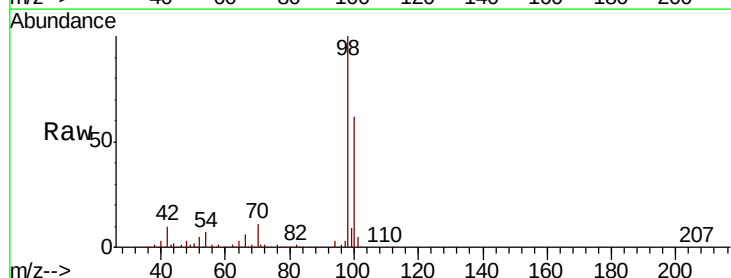
Acq: 27 Aug 2018 19:04

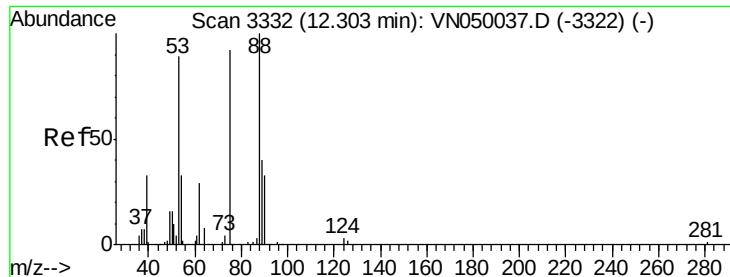
Tgt Ion: 98 Resp: 643195

Ion Ratio Lower Upper

98 100

100 61.7 51.2 76.8

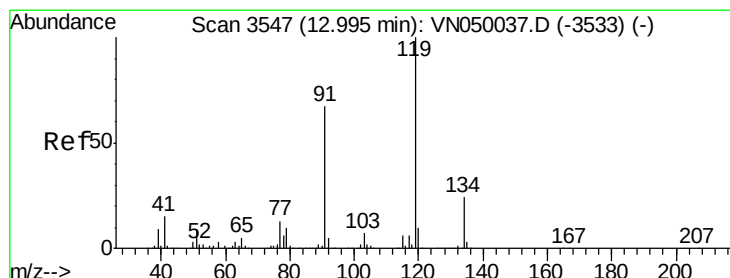
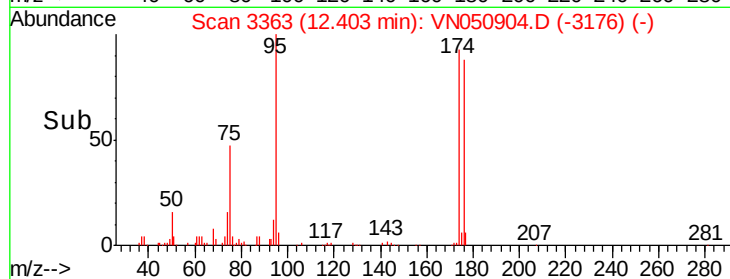
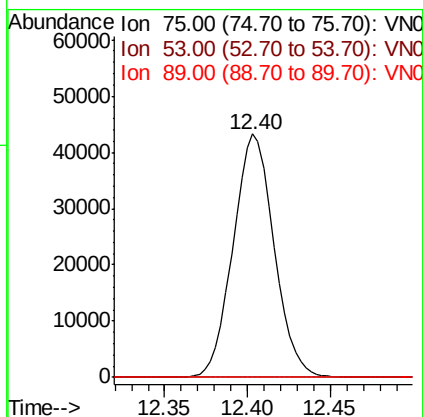
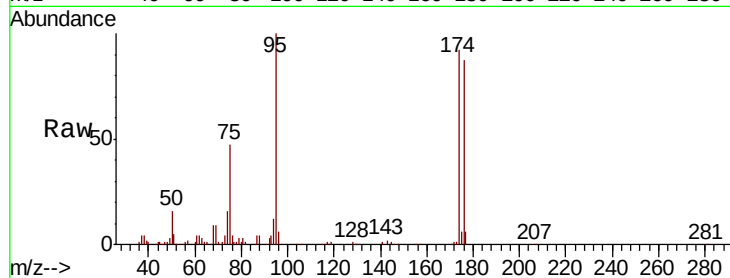




#77
t-1,4-Dichloro-2-butene
Concen: 36.88 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.10 min
Lab File: VN050904.D
Acq: 27 Aug 2018 19:04

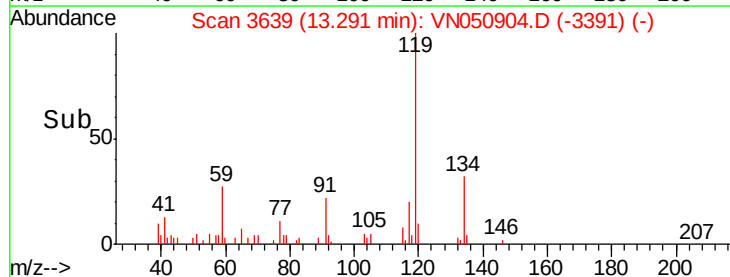
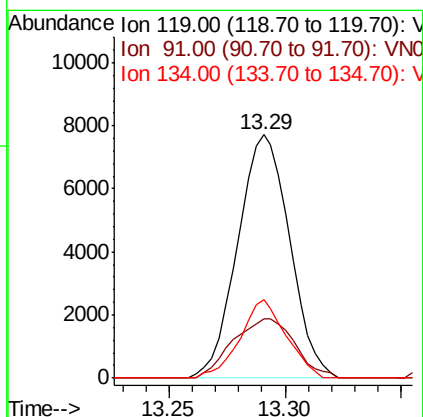
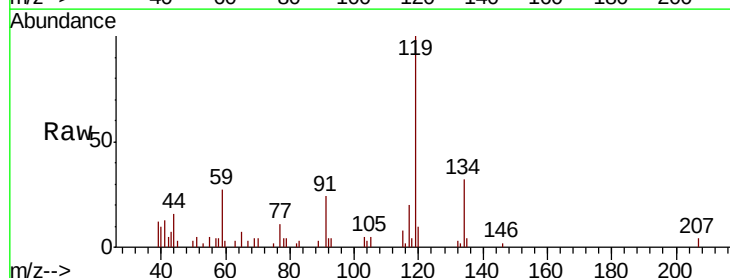
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(JULY)

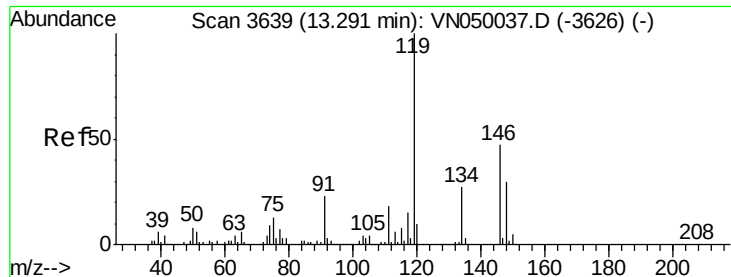
Tot Ion: 75 Resp: 74150
Ion Ratio Lower Upper
75 100
53 0.0 44.6 134.0#
89 0.0 20.7 62.1#



#79
tert-butylbenzene
Concen: 0.65 ug/l
RT: 13.29 min Scan# 3639
Delta R.T. 0.30 min
Lab File: VN050904.D
Acq: 27 Aug 2018 19:04

Tgt Ion: 119 Resp: 12006
Ion Ratio Lower Upper
119 100
91 28.9 0.0 126.8
134 28.6 0.0 47.4





#82

p-Isopropyltoluene

Concen: 0.56 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050904.D

Acq: 27 Aug 2018 19:04

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(JULY)

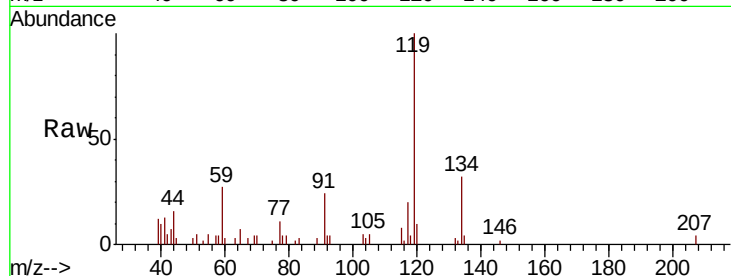
Tot Ion:119 Resp: 12006

Ion Ratio Lower Upper

119 100

134 28.6 0.0 52.2

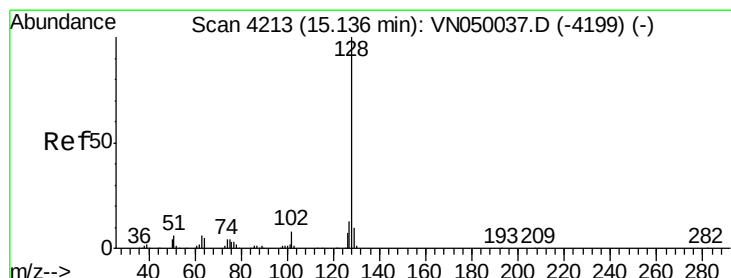
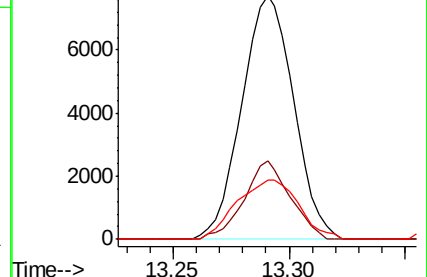
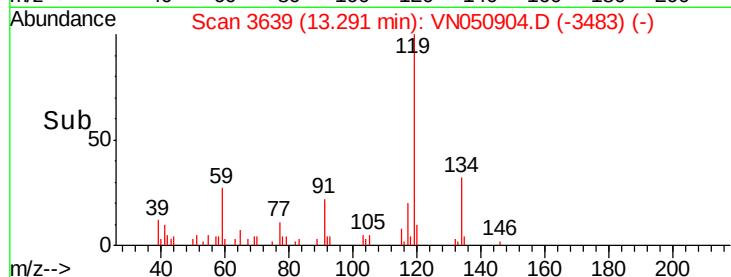
91 28.9 0.0 45.6



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: 7.74 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050904.D

Acq: 27 Aug 2018 19:04

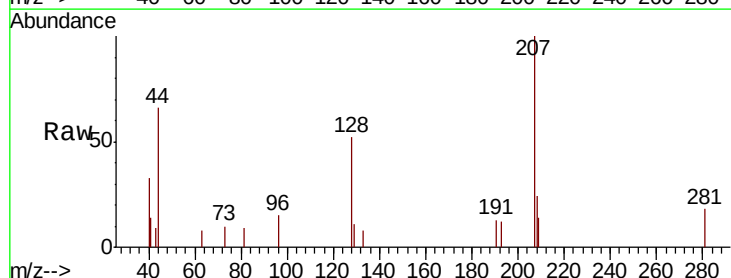
Tgt Ion:128 Resp: 1788

Ion Ratio Lower Upper

128 100

127 3.4 10.2 15.4#

129 6.0 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

