

Data Path : W:\HPCHEM1\MSVOA_N\DATA\VN010518\
 Data File : VN046331.D
 Acq On : 5 Jan 2018 13:03
 Operator : MD\SY
 Sample : J1036-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

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

Quant Time: Jan 05 13:21:23 2018
 Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\624N121917W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Dec 19 04:09:09 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.28	128	149392	30.00	ug/l	0.08
28) 1,4-Difluorobenzene	8.69	114	804709	30.00	ug/l	0.10
57) Chlorobenzene-d5	11.44	117	686996	30.00	ug/l	0.02

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.16	65	371174	33.10	ug/l	0.13
Spiked Amount	30.000	Range	50 - 169	Recovery	=	110.33%
60) 4-Bromofluorobenzene	12.42	95	297687	28.02	ug/l	0.01
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.40%
63) Toluene-d8	10.14	98	972589	29.90	ug/l	0.05
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.67%

Target Compounds

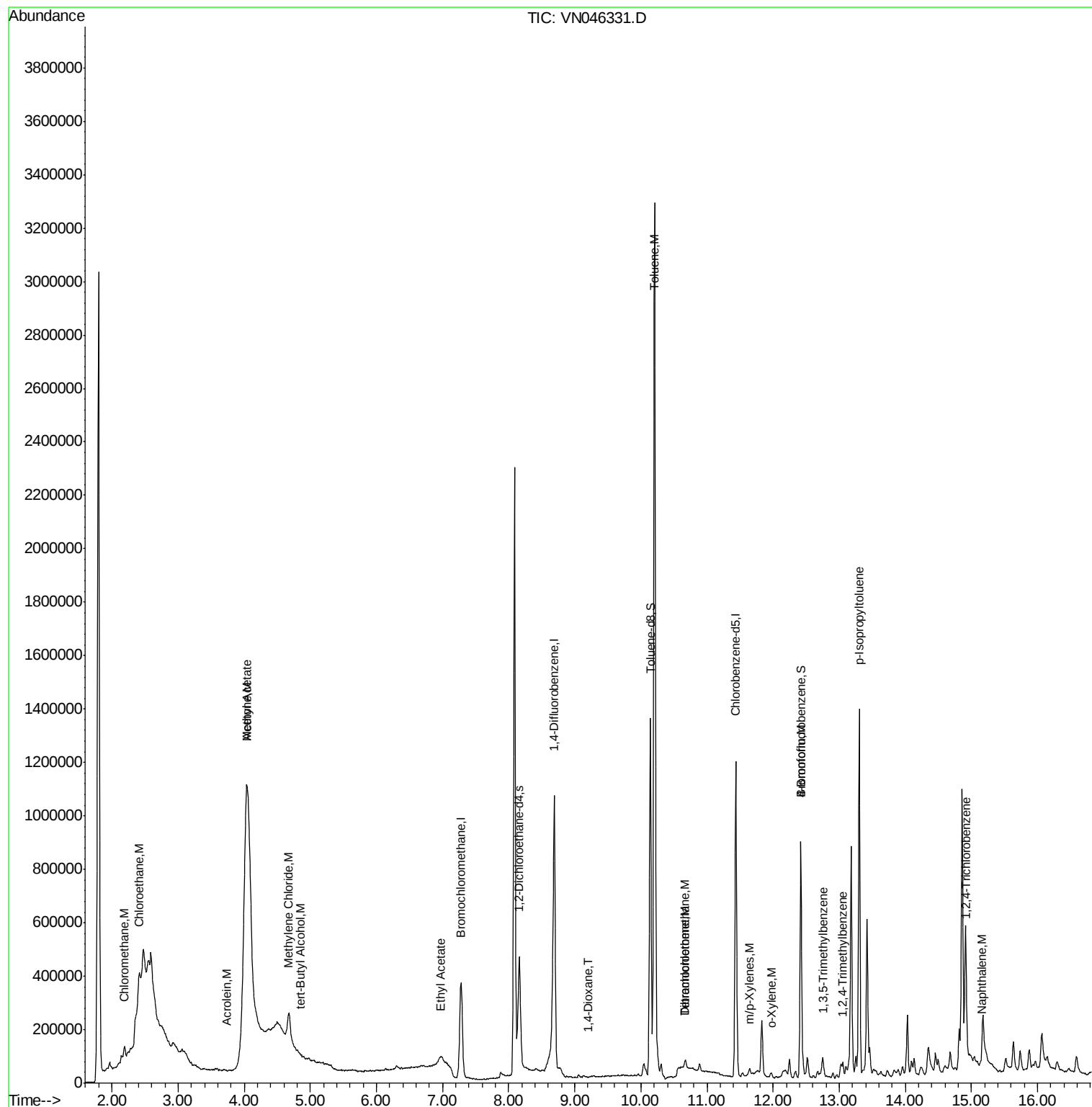
						Qvalue
3) Chloromethane	2.19	50	18137	1.24	ug/l	95
6) Chloroethane	2.41	64	771763	105.59	ug/l #	52
12) Methyl Acetate	4.05	43	5385385	622.05	ug/l #	53
13) Acrolein	3.73	56	316	0.33	ug/l	100
15) Acetone	4.05	58	904177	840.68	ug/l	91
18) Methylene Chloride	4.67	84	71201	6.32	ug/l	87
23) tert-Butyl Alcohol	4.86	59	409	0.52	ug/l #	94
43) Ethyl Acetate	6.98	43	80450	8.33	ug/l #	71
45) 1,4-Dioxane	9.20	88	331	2.87	ug/l #	72
53) Dibromochloromethane	10.67	129	5505	0.56	ug/l #	10
56) Bromoform	12.42	173	1377	0.22	ug/l #	1
61) Tetrachloroethene	10.67	164	5348	0.62	ug/l	92
62) Toluene	10.21	91	2514130	59.74	ug/l	99
67) m/p-Xylenes	11.64	106	6085	0.39	ug/l	94
68) o-Xylene	11.97	106	4186	0.26	ug/l	74
76) 1,3,5-Trimethylbenzene	12.75	105	7730	0.23	ug/l	89
80) 1,2,4-Trimethylbenzene	13.05	105	25586	0.76	ug/l #	66
82) p-Isopropyltoluene	13.30	119	720456	23.45	ug/l	97
89) 1,2,4-Trichlorobenzene	14.93	180	522	6.02	ug/l #	1
91) Naphthalene	15.14	128	7974	7.14	ug/l #	80

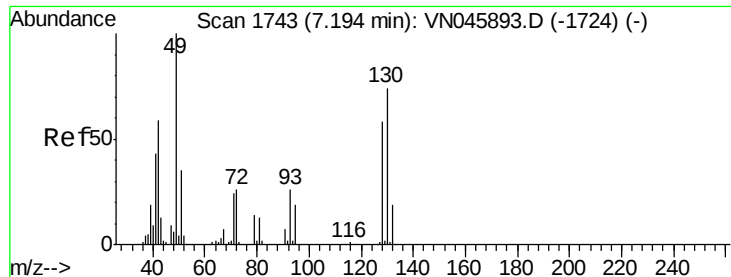
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.28 min Scan# 1769

Delta R.T. 0.08 min

Lab File: VN046331.D

Acq: 5 Jan 2018 13:03

Instrument :

MSVOA_N

ClientSampleId :

002M-35TH-AVE(JAN)

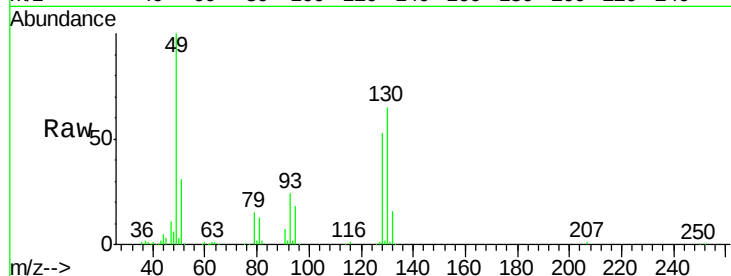
Tgt Ion:128 Resp: 149392

Ion Ratio Lower Upper

128 100

49 190.1 0.0 442.2

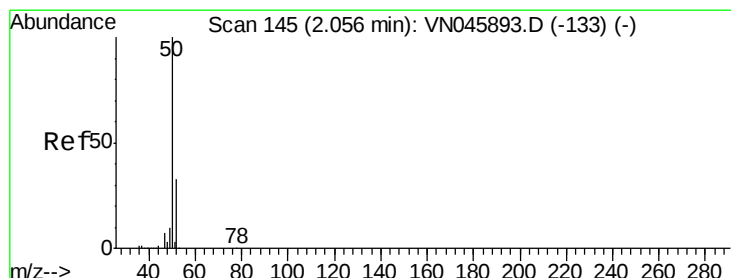
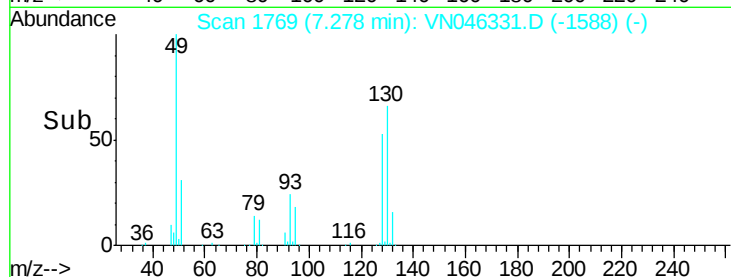
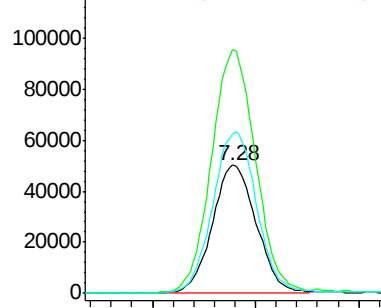
130 126.1 0.0 322.8



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: 1.24 ug/l

RT: 2.19 min Scan# 187

Delta R.T. 0.13 min

Lab File: VN046331.D

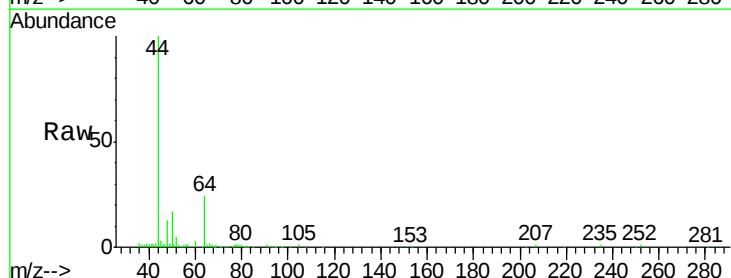
Acq: 5 Jan 2018 13:03

Tgt Ion: 50 Resp: 18137

Ion Ratio Lower Upper

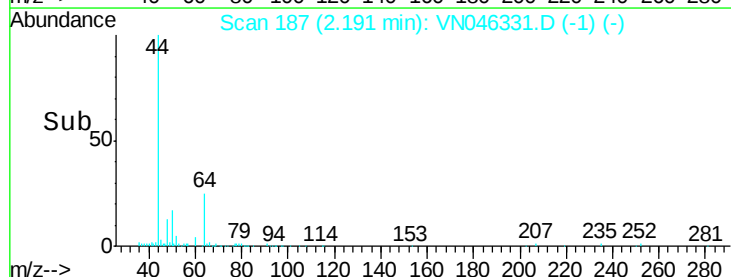
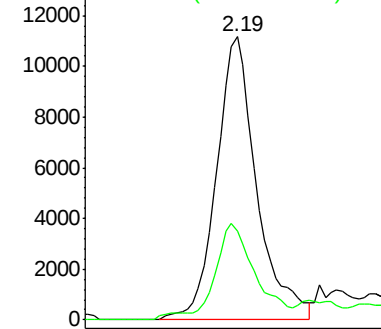
50 100

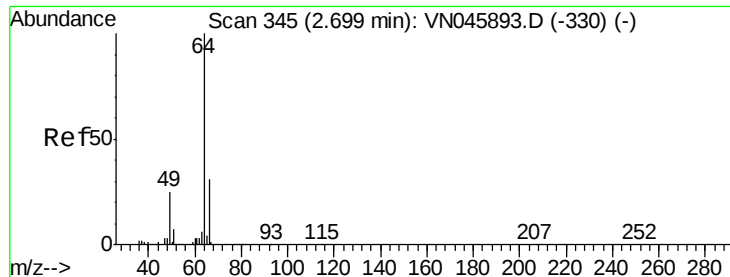
52 30.1 26.3 39.5



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#6

Chloroethane

Concen: 105.59 ug/l

RT: 2.41 min Scan# 255

Delta R.T. -0.29 min

Lab File: VN046331.D

Acq: 5 Jan 2018 13:03

Instrument :

MSVOA_N

ClientSampleId :

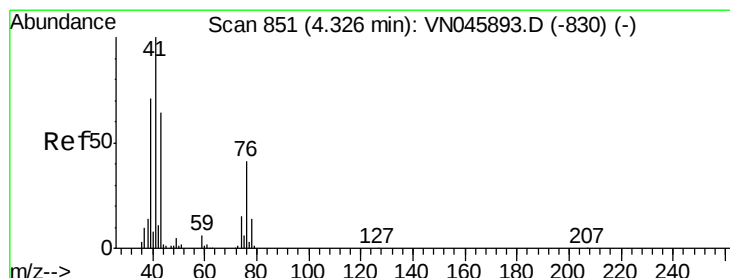
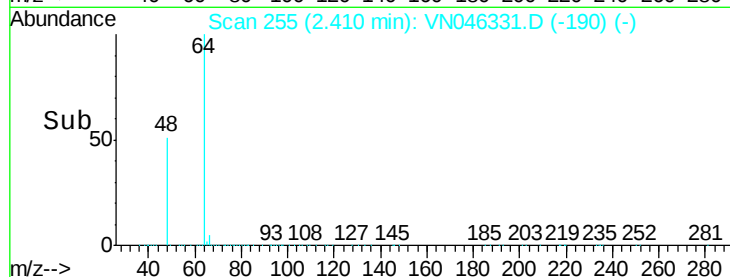
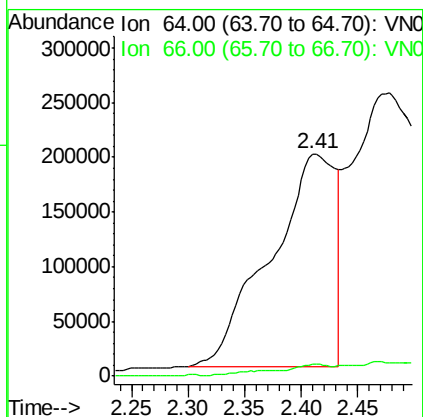
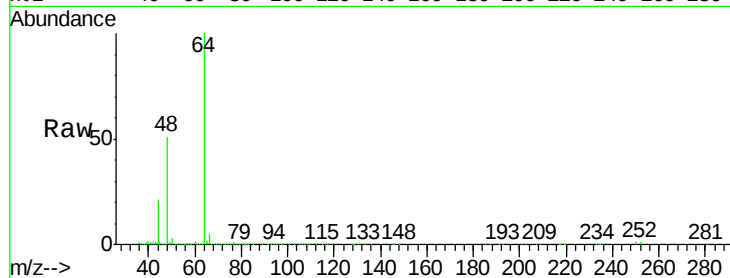
002M-35TH-AVE(JAN)

Tgt Ion: 64 Resp: 771763

Ion Ratio Lower Upper

64 100

66 4.9 24.8 37.2#



#12

Methyl Acetate

Concen: 622.05 ug/l

RT: 4.05 min Scan# 766

Delta R.T. -0.27 min

Lab File: VN046331.D

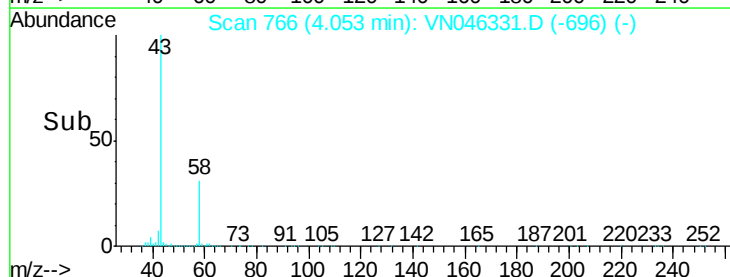
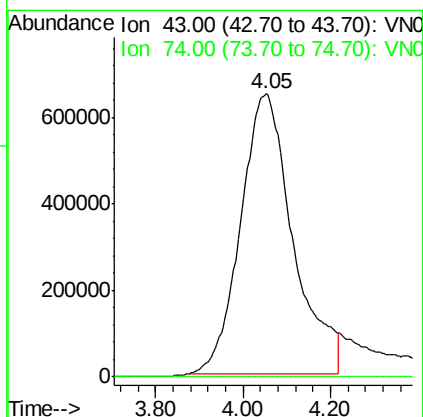
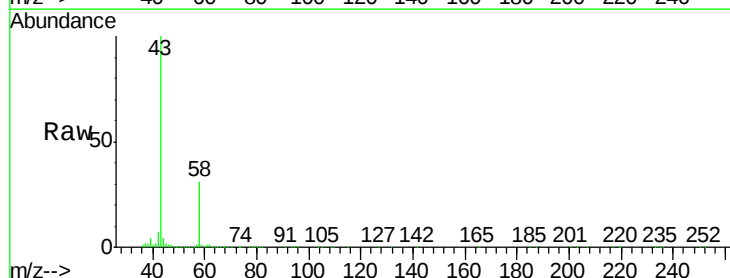
Acq: 5 Jan 2018 13:03

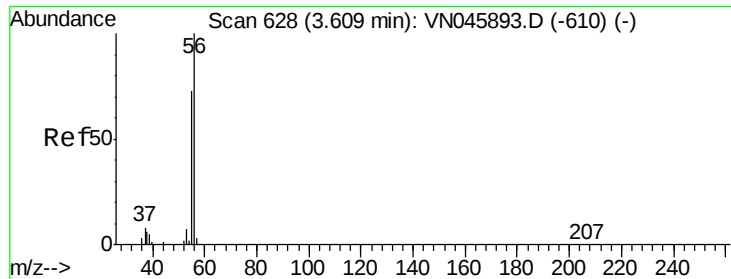
Tgt Ion: 43 Resp: 5385385

Ion Ratio Lower Upper

43 100

74 0.0 18.2 27.4#





#13

Acrolein

Concen: 0.33 ug/l

RT: 3.73 min Scan# 667

Delta R.T. 0.13 min

Lab File: VN046331.D

Acq: 5 Jan 2018 13:03

Instrument :

MSVOA_N

ClientSampleId :

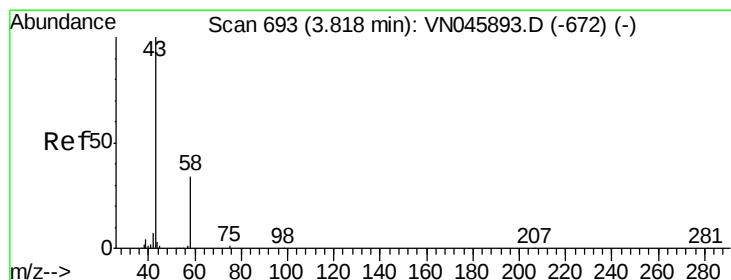
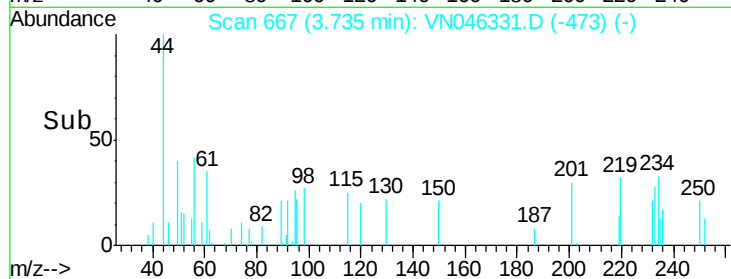
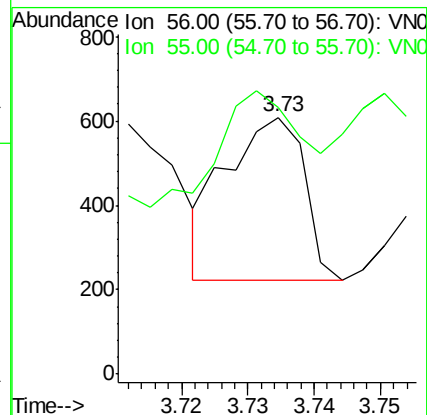
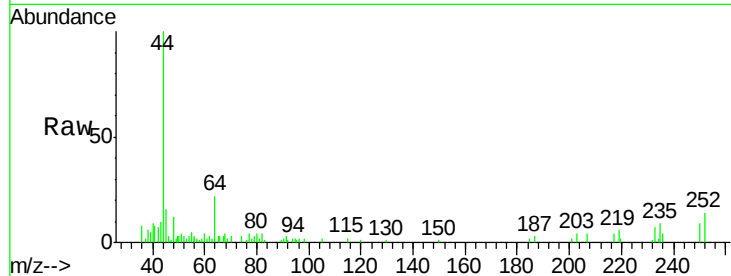
002M-35TH-AVE(JAN)

Tgt Ion: 56 Resp: 316

Ion Ratio Lower Upper

56 100

55 74.1 59.0 88.4



#15

Acetone

Concen: 840.68 ug/l

RT: 4.05 min Scan# 764

Delta R.T. 0.23 min

Lab File: VN046331.D

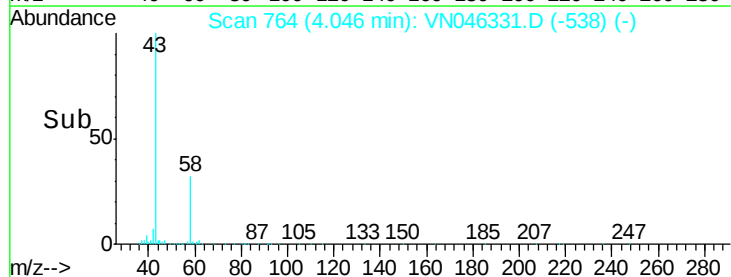
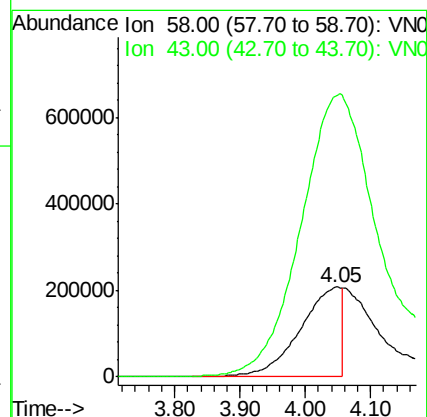
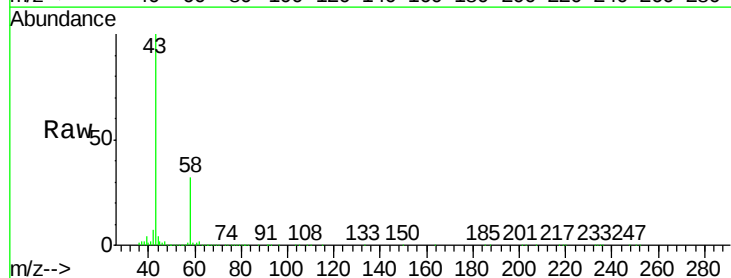
Acq: 5 Jan 2018 13:03

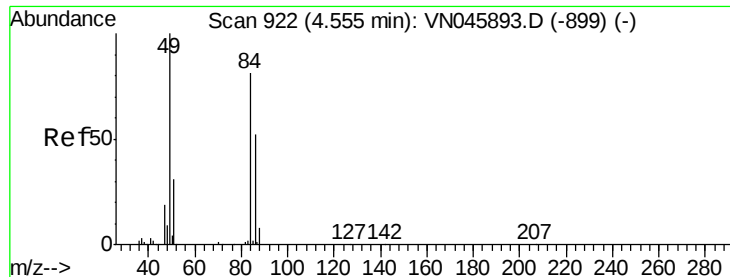
Tgt Ion: 58 Resp: 904177

Ion Ratio Lower Upper

58 100

43 312.2 235.0 352.6

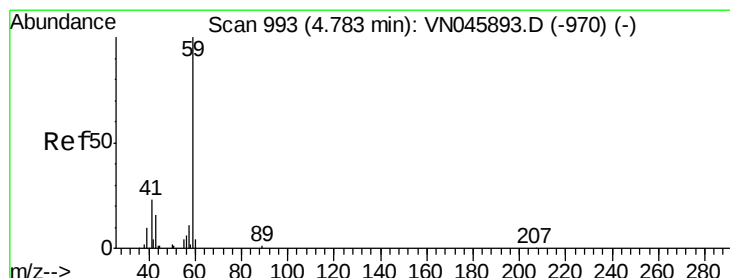
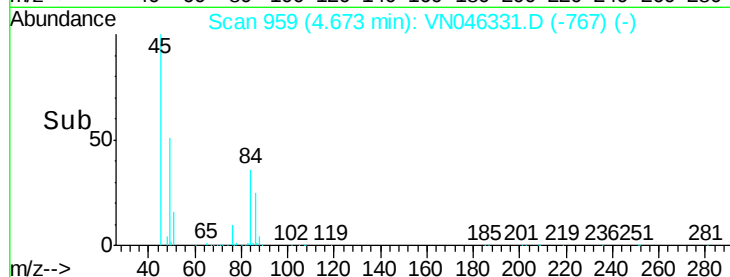
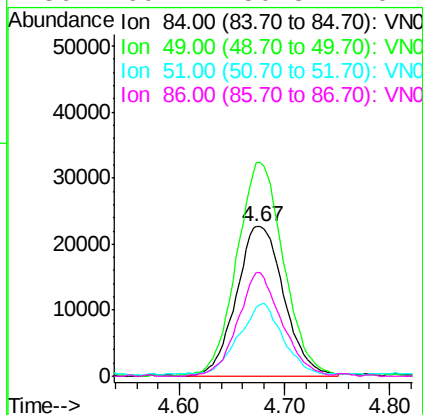
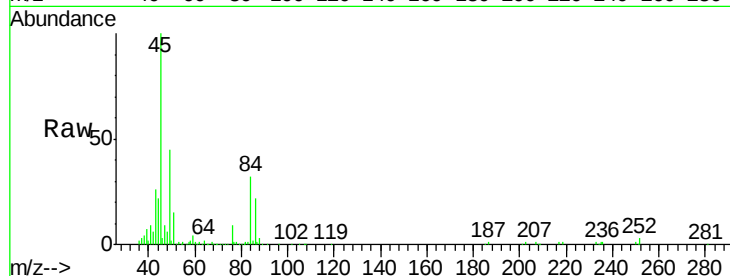




#18
Methylene Chloride
Concen: 6.32 ug/l
RT: 4.67 min Scan# 959
Delta R.T. 0.12 min
Lab File: VN046331.D
Acq: 5 Jan 2018 13:03

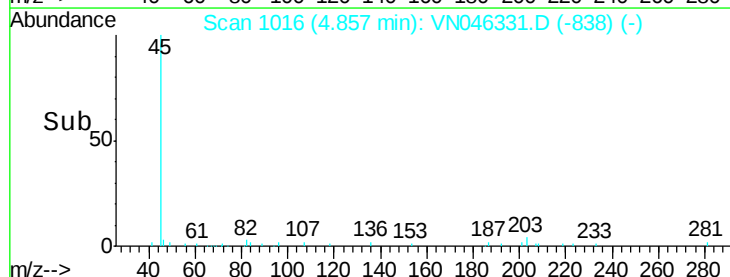
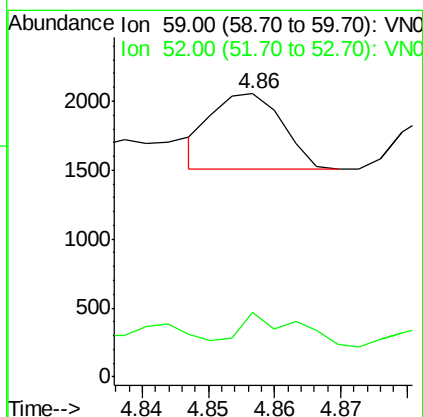
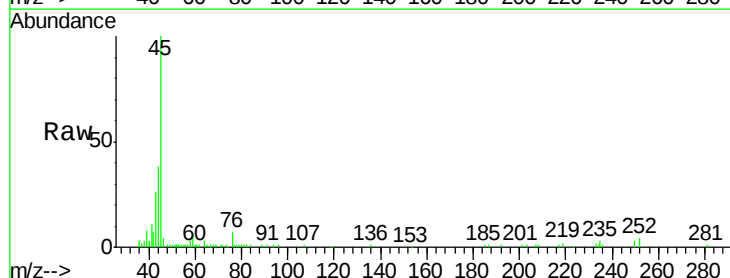
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(JAN)

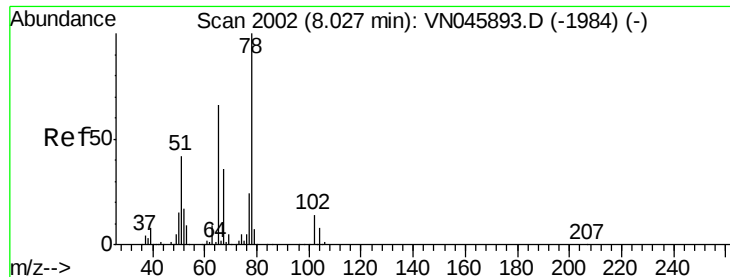
Tgt Ion:	84	Resp:	71201
Ion	Ratio	Lower	Upper
84	100		
49	141.6	98.5	147.7
51	44.3	30.9	46.3
86	69.1	50.8	76.2



#23
tert-Butyl Alcohol
Concen: 0.52 ug/l
RT: 4.86 min Scan# 1016
Delta R.T. 0.07 min
Lab File: VN046331.D
Acq: 5 Jan 2018 13:03

Tgt Ion:	59	Resp:	409
Ion	Ratio	Lower	Upper
59	100		
52	14.2	0.1	0.1#





#27

1,2-Dichloroethane-d4

Concen: 33.10 ug/l

RT: 8.16 min Scan# 2044

Delta R.T. 0.13 min

Lab File: VN046331.D

Acq: 5 Jan 2018 13:03

Instrument :

MSVOA_N

ClientSampleId :

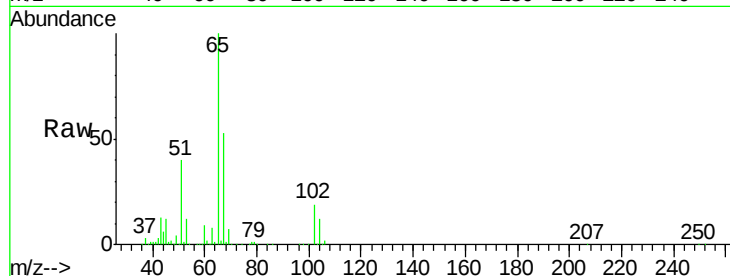
002M-35TH-AVE(JAN)

Tgt Ion: 65 Resp: 371174

Ion Ratio Lower Upper

65 100

67 53.6 42.9 64.3



Abundance Ion 65.00 (64.70 to 65.70): VN046331.D (-2044) (-)

Ion 67.00 (66.70 to 67.70): VN046331.D (-2044) (-)

8.16

150000

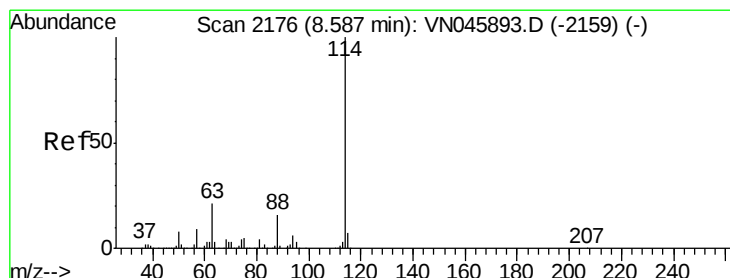
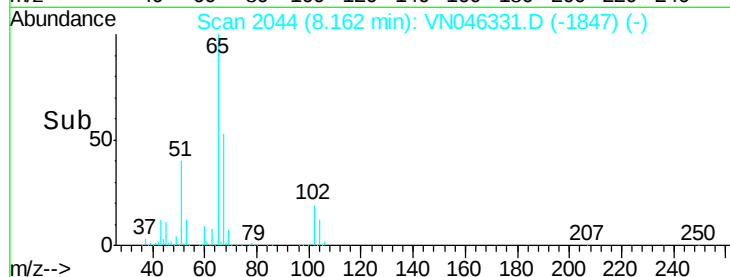
100000

50000

0

8.10 8.20

Time-->



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.69 min Scan# 2208

Delta R.T. 0.10 min

Lab File: VN046331.D

Acq: 5 Jan 2018 13:03

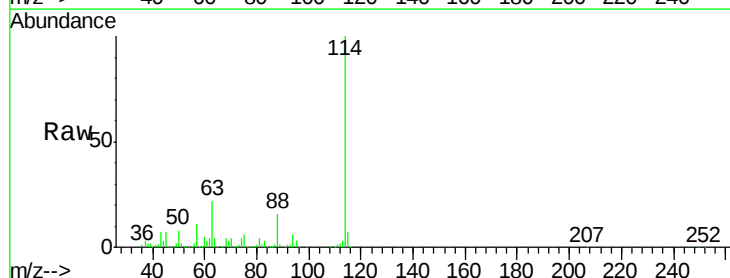
Tgt Ion: 114 Resp: 804709

Ion Ratio Lower Upper

114 100

63 23.1 16.7 25.1

88 16.2 12.7 19.1



Abundance Ion 114.00 (113.70 to 114.70): VN046331.D (-2208) (-)

Ion 63.00 (62.70 to 63.70): VN046331.D (-2208) (-)

Ion 88.00 (87.70 to 88.70): VN046331.D (-2208) (-)

8.69

500000

400000

300000

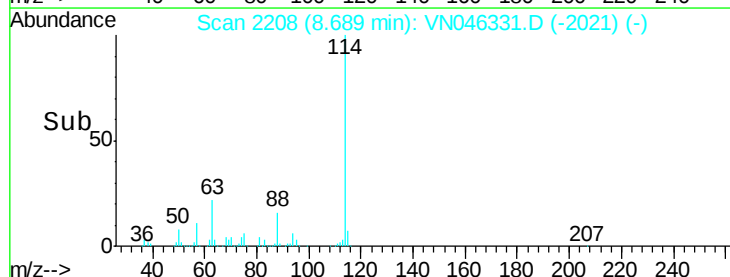
200000

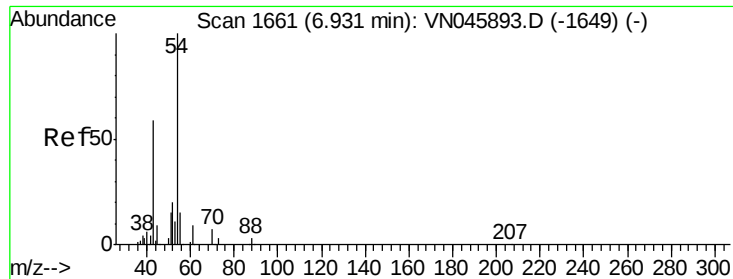
100000

0

8.60 8.65 8.70 8.75

Time-->





#43

Ethyl Acetate

Concen: 8.33 ug/l

RT: 6.98 min Scan# 1676

Delta R.T. 0.05 min

Lab File: VN046331.D

Acq: 5 Jan 2018 13:03

Instrument :

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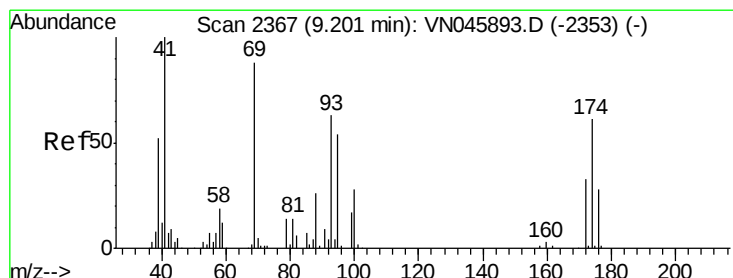
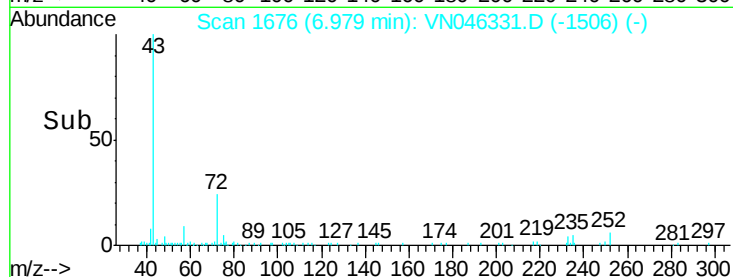
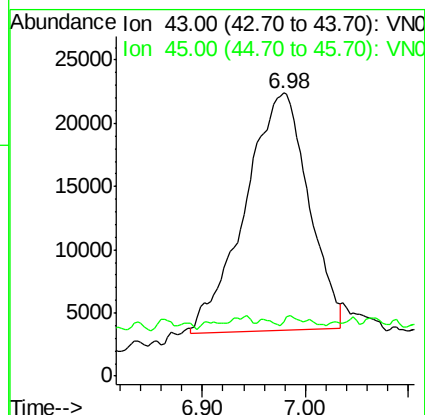
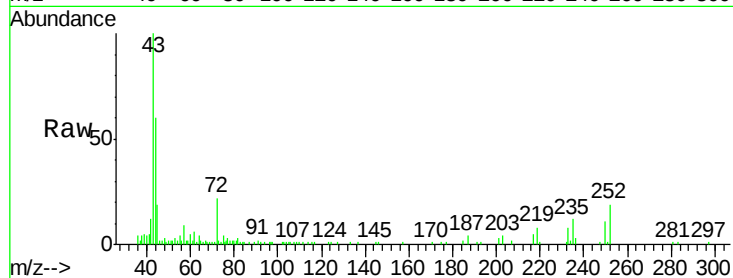
002M-35TH-AVE(JAN)

Tgt Ion: 43 Resp: 80450

Ion Ratio Lower Upper

43 100

45 0.8 9.8 14.8#



#45

1,4-Dioxane

Concen: 2.87 ug/l

RT: 9.20 min Scan# 2366

Delta R.T. -0.00 min

Lab File: VN046331.D

Acq: 5 Jan 2018 13:03

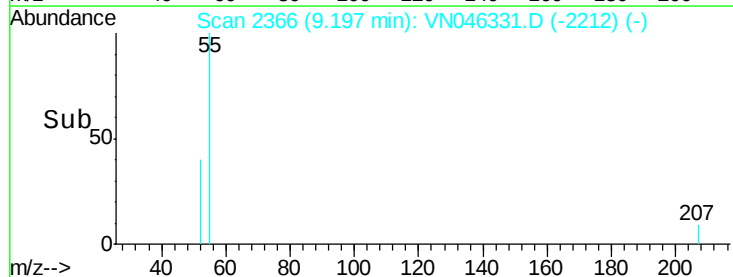
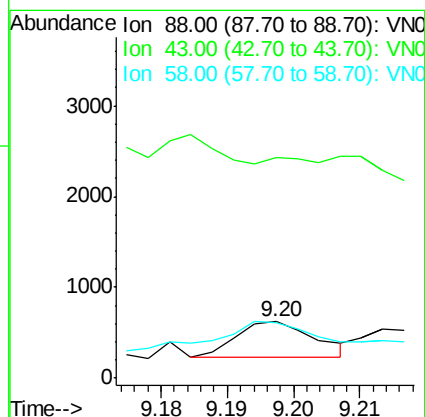
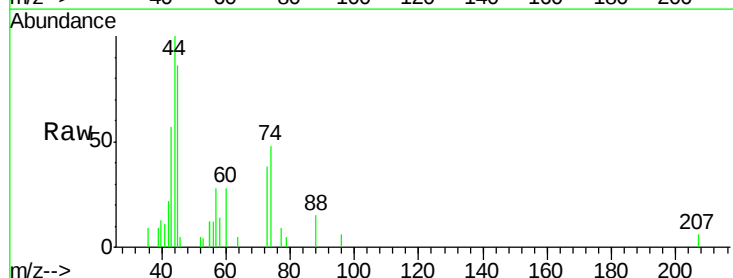
Tgt Ion: 88 Resp: 331

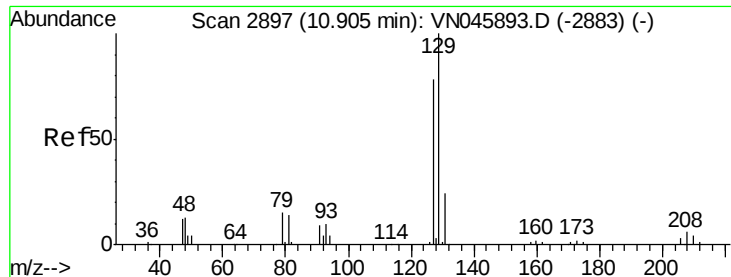
Ion Ratio Lower Upper

88 100

43 0.0 27.3 40.9#

58 63.1 60.2 90.4

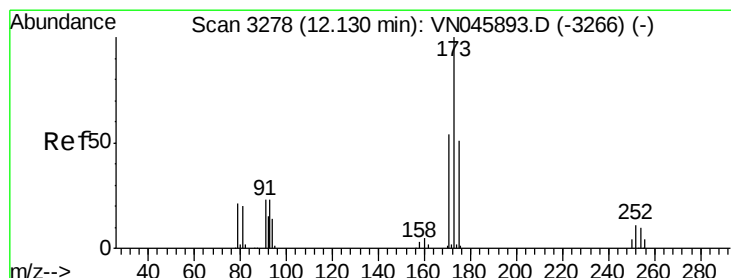
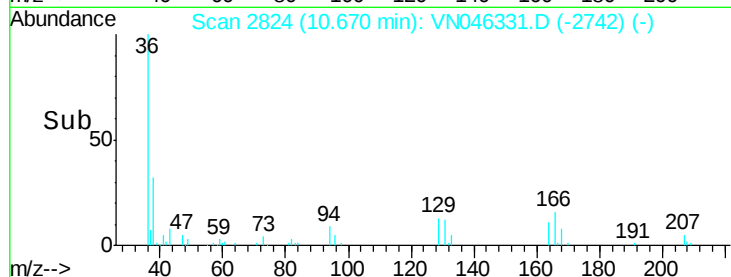
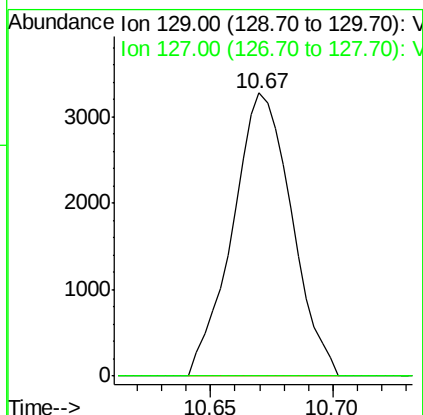
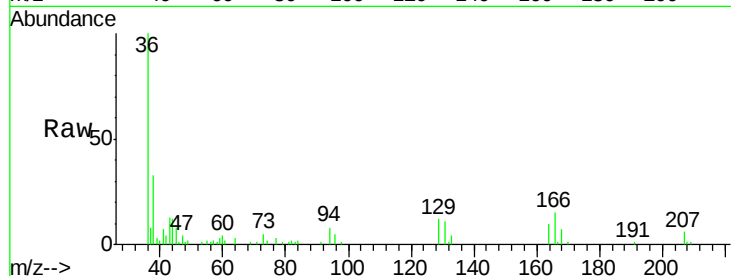




#53
Dibromochloromethane
Concen: 0.56 ug/l
RT: 10.67 min Scan# 2824
Delta R.T. -0.23 min
Lab File: VN046331.D
Acq: 5 Jan 2018 13:03

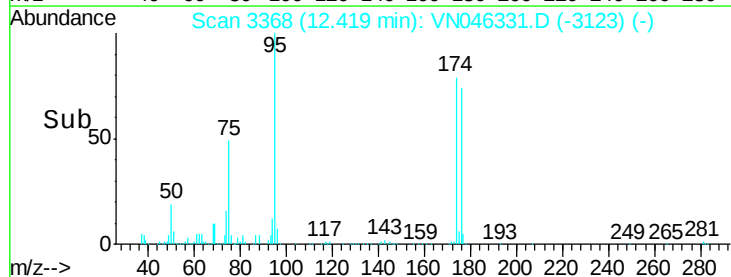
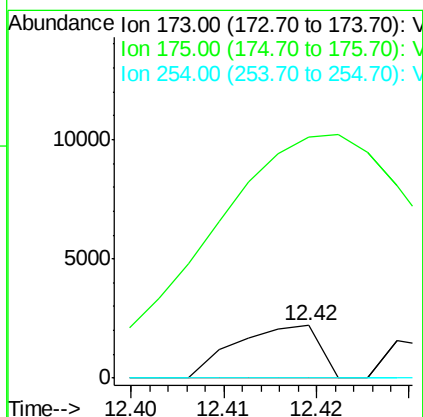
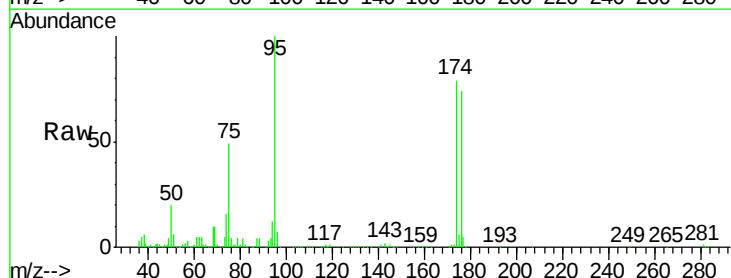
Instrument :
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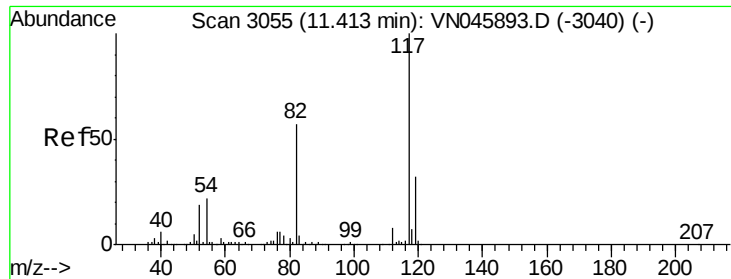
Tgt Ion:129 Resp: 5505
Ion Ratio Lower Upper
129 100
127 0.0 39.3 117.8#



#56
Bromoform
Concen: 0.22 ug/l
RT: 12.42 min Scan# 3368
Delta R.T. 0.29 min
Lab File: VN046331.D
Acq: 5 Jan 2018 13:03

Tgt Ion:173 Resp: 1377
Ion Ratio Lower Upper
173 100
175 1288.2 39.4 59.2#
254 0.0 8.2 12.4#

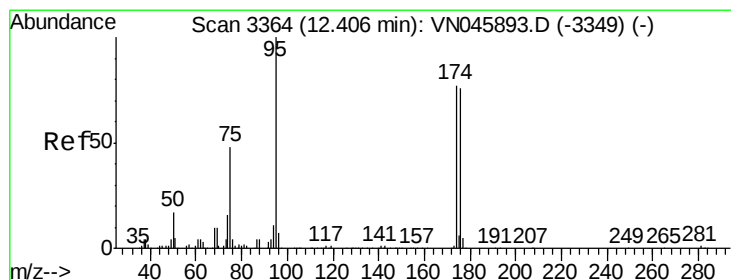
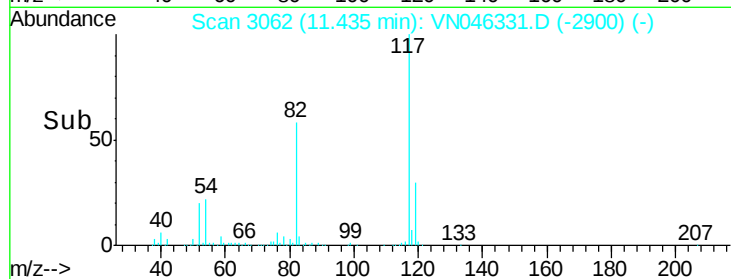
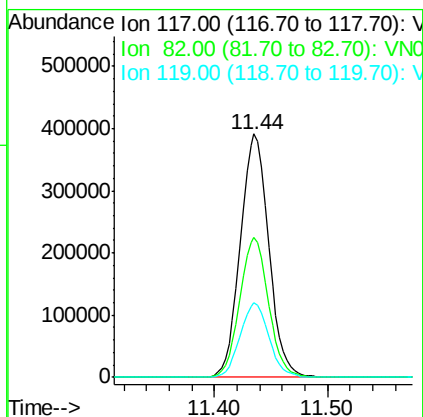
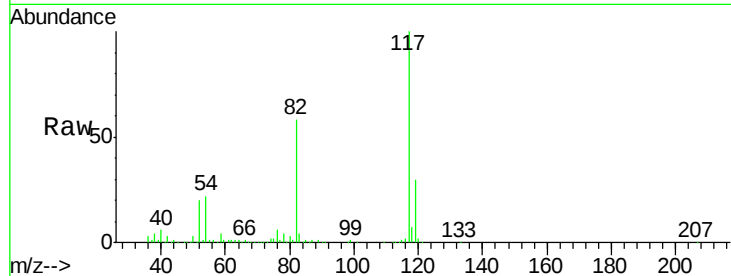




#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.02 min
Lab File: VN046331.D
Acq: 5 Jan 2018 13:03

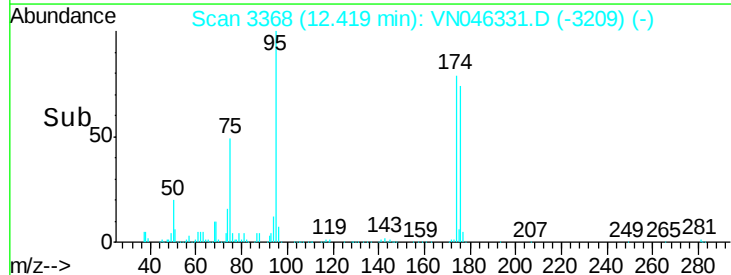
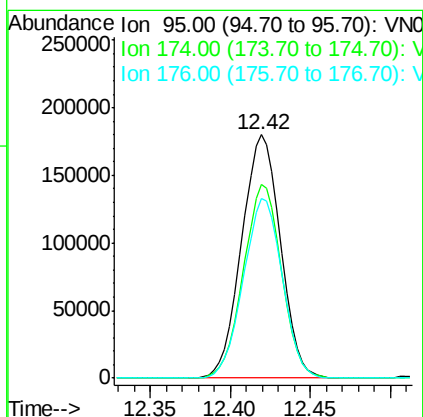
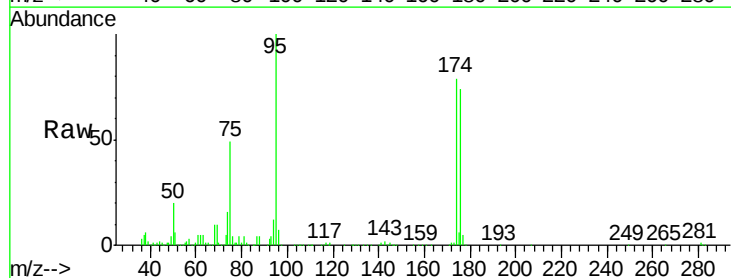
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(JAN)

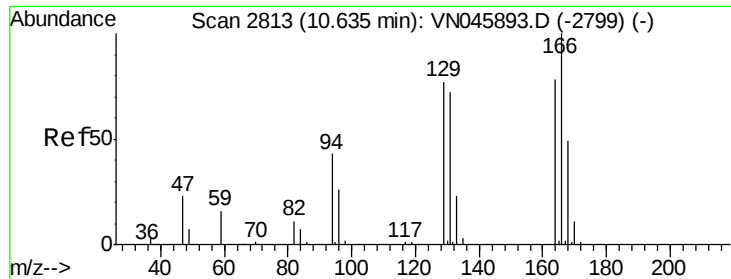
Tgt Ion: 117 Resp: 686996
Ion Ratio Lower Upper
117 100
82 58.2 46.0 69.0
119 30.9 25.8 38.8



#60
4-Bromofluorobenzene
Concen: 28.02 ug/l
RT: 12.42 min Scan# 3368
Delta R.T. 0.01 min
Lab File: VN046331.D
Acq: 5 Jan 2018 13:03

Tgt Ion: 95 Resp: 297687
Ion Ratio Lower Upper
95 100
174 78.7 63.5 95.3
176 74.4 61.3 91.9

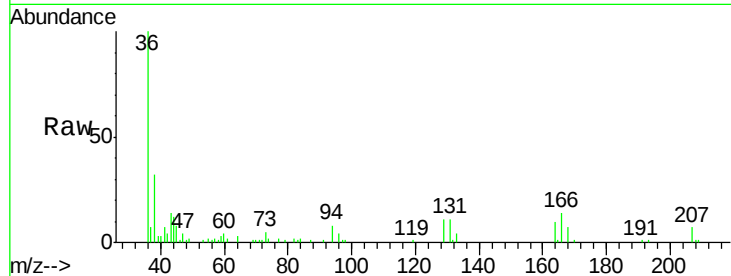




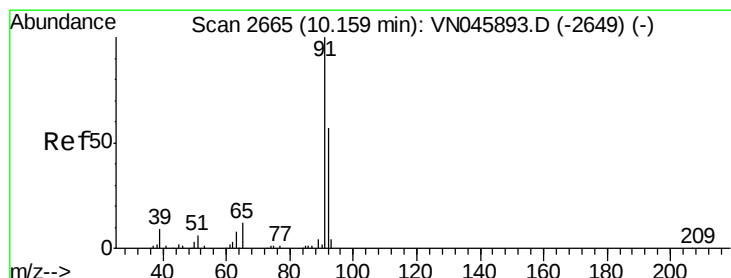
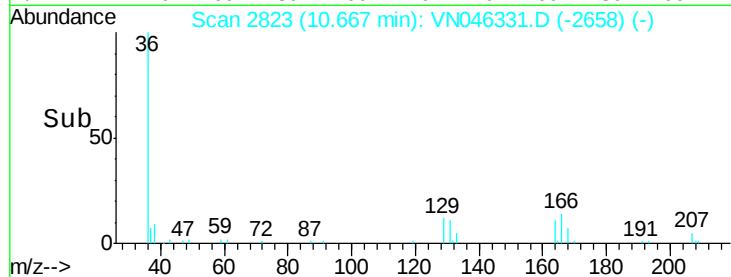
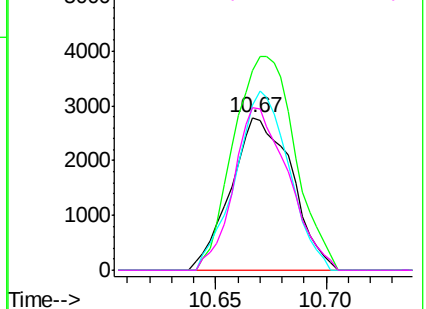
#61
Tetrachloroethene
Concen: 0.62 ug/l
RT: 10.67 min Scan# 2823
Delta R.T. 0.03 min
Lab File: VN046331.D
Acq: 5 Jan 2018 13:03

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

Tgt Ion:164 Resp: 5348
Ion Ratio Lower Upper
164 100
166 130.9 102.7 154.1
129 108.6 78.6 118.0
131 106.7 74.3 111.5

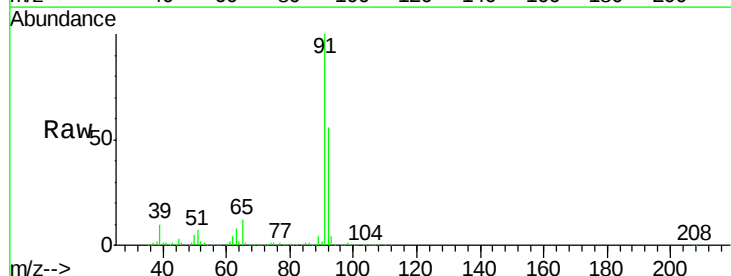


Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.90 (128.60 to 129.60): V
Ion 130.90 (130.60 to 131.60): V

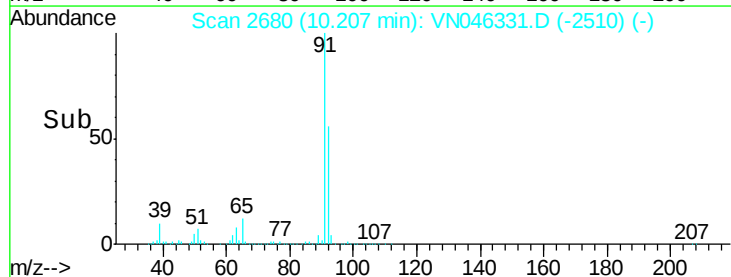
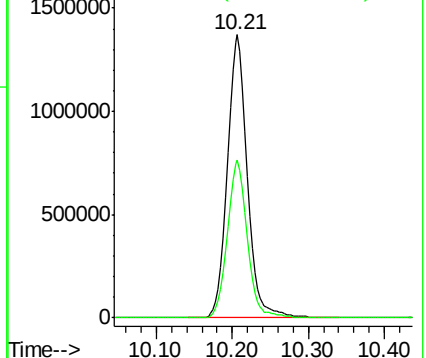


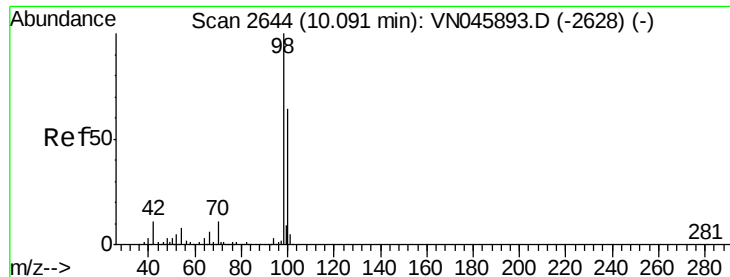
#62
Toluene
Concen: 59.74 ug/l
RT: 10.21 min Scan# 2680
Delta R.T. 0.05 min
Lab File: VN046331.D
Acq: 5 Jan 2018 13:03

Tgt Ion: 91 Resp: 2514130
Ion Ratio Lower Upper
91 100
92 55.8 45.3 67.9



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 92.00 (91.70 to 92.70): V

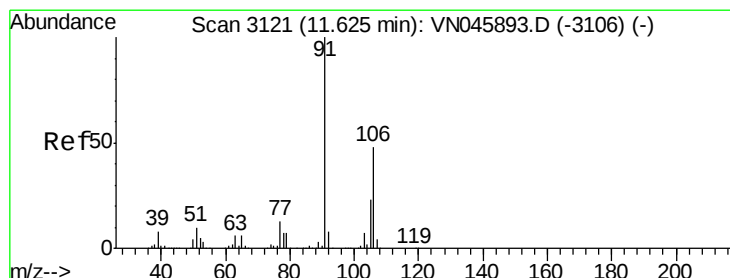
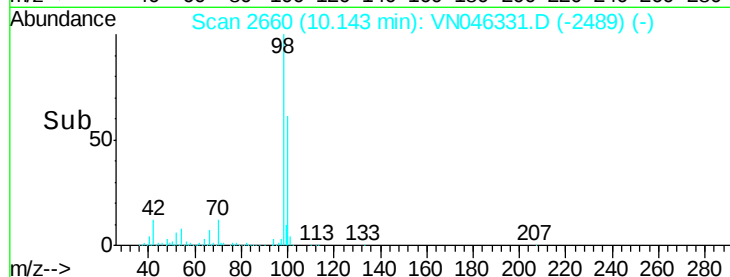
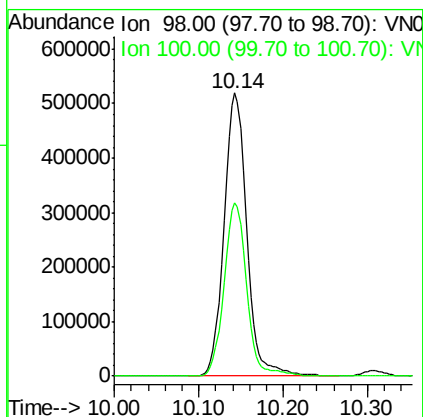
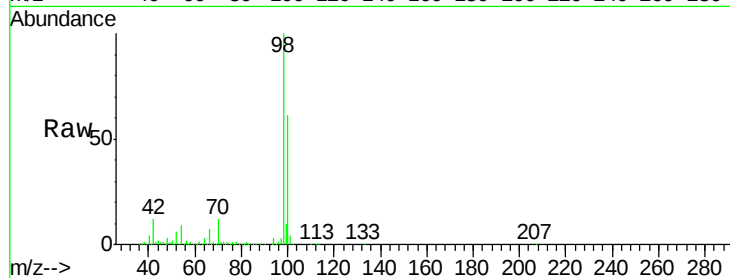




#63
Toluene-d8
Concen: 29.90 ug/l
RT: 10.14 min Scan# 2660
Delta R.T. 0.05 min
Lab File: VN046331.D
Acq: 5 Jan 2018 13:03

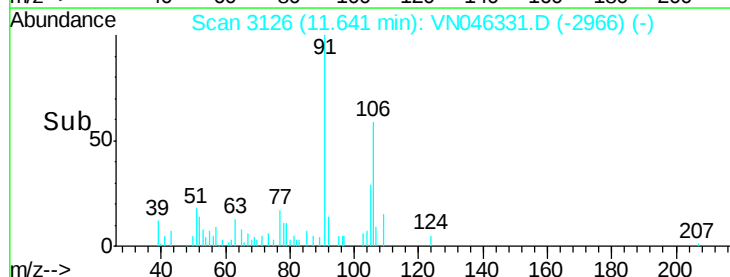
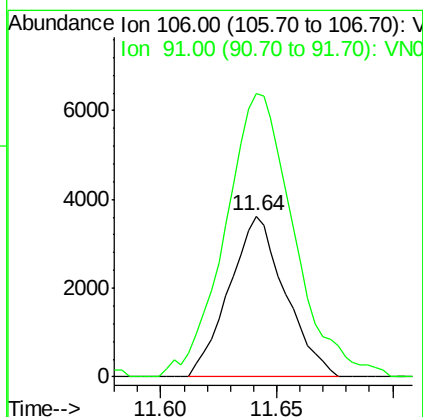
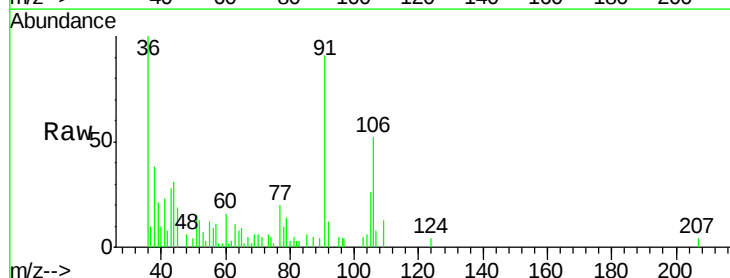
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(JAN)

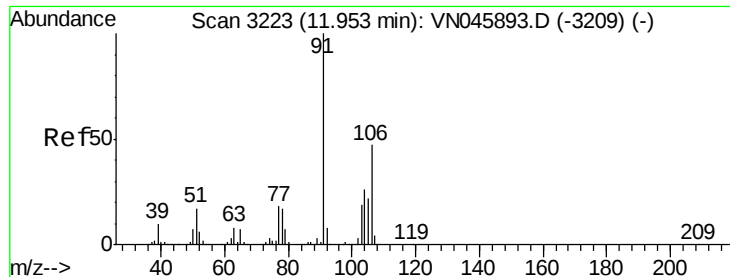
Tgt Ion: 98 Resp: 972589
Ion Ratio Lower Upper
98 100
100 60.9 50.8 76.2



#67
m/p-Xylenes
Concen: 0.39 ug/l
RT: 11.64 min Scan# 3126
Delta R.T. 0.02 min
Lab File: VN046331.D
Acq: 5 Jan 2018 13:03

Tgt Ion: 106 Resp: 6085
Ion Ratio Lower Upper
106 100
91 215.7 165.8 248.6

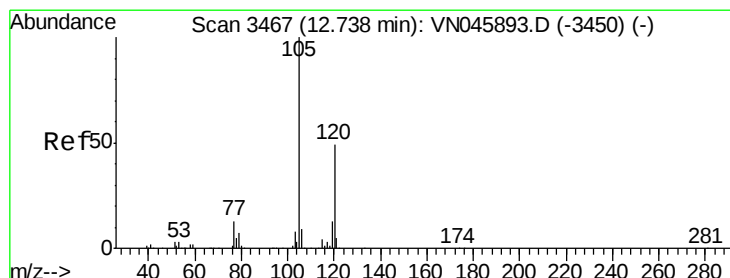
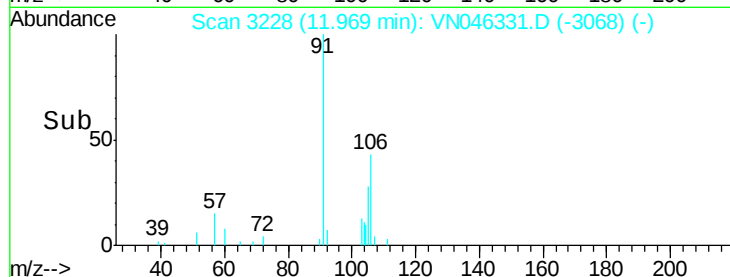
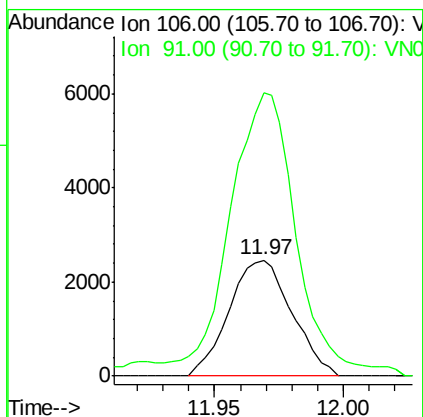
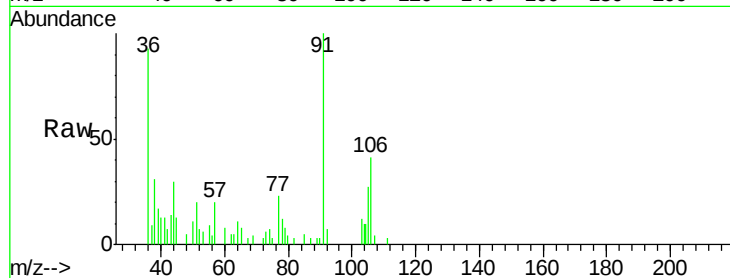




#68
o-Xylene
Concen: 0.26 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.02 min
Lab File: VN046331.D
Acq: 5 Jan 2018 13:03

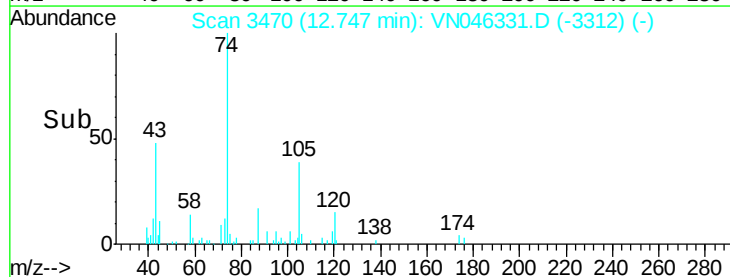
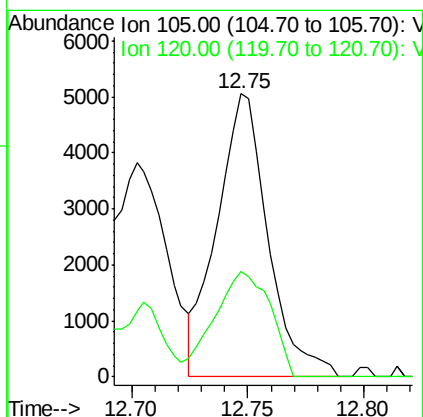
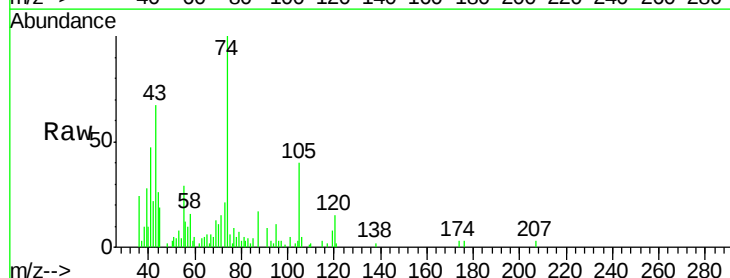
Instrument :
MSVOA_N
ClientSampleId :
002M-35TH-AVE(JAN)

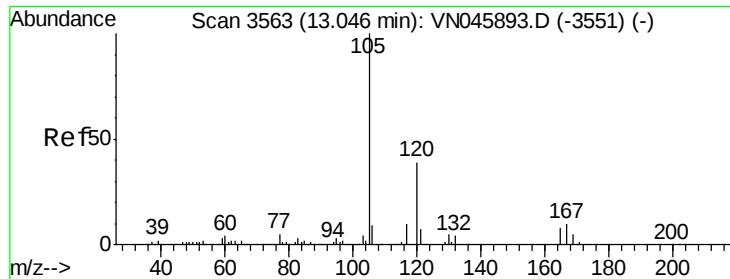
Tgt Ion:106 Resp: 4186
Ion Ratio Lower Upper
106 100
91 258.1 108.7 325.9



#76
1,3,5-Trimethylbenzene
Concen: 0.23 ug/l
RT: 12.75 min Scan# 3470
Delta R.T. 0.01 min
Lab File: VN046331.D
Acq: 5 Jan 2018 13:03

Tgt Ion:105 Resp: 7730
Ion Ratio Lower Upper
105 100
120 40.9 0.0 97.4

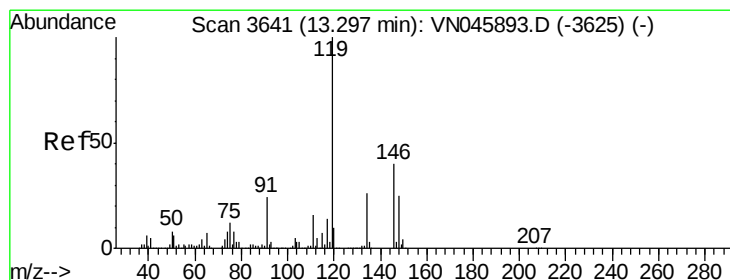
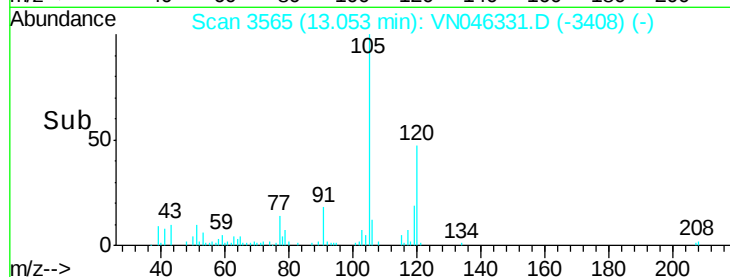
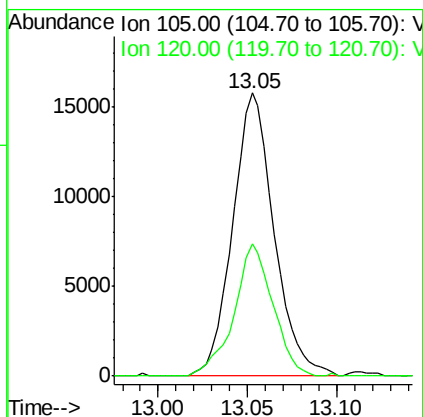
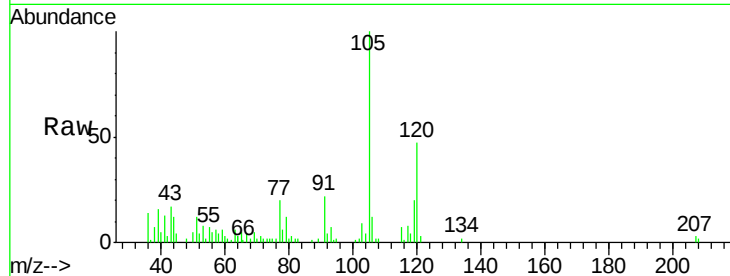




#80
 1,2,4-Trimethylbenzene
 Concen: 0.76 ug/l
 RT: 13.05 min Scan# 3565
 Delta R.T. 0.01 min
 Lab File: VN046331.D
 Acq: 5 Jan 2018 13:03

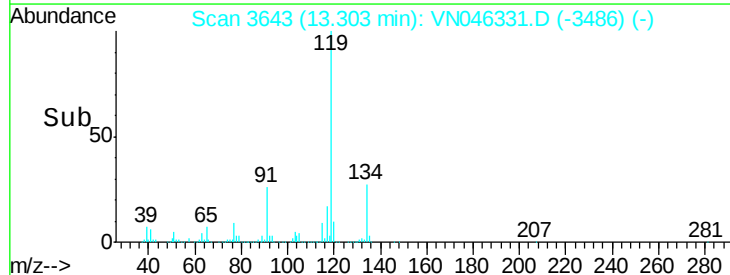
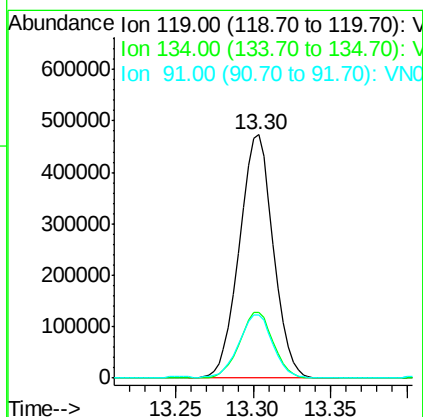
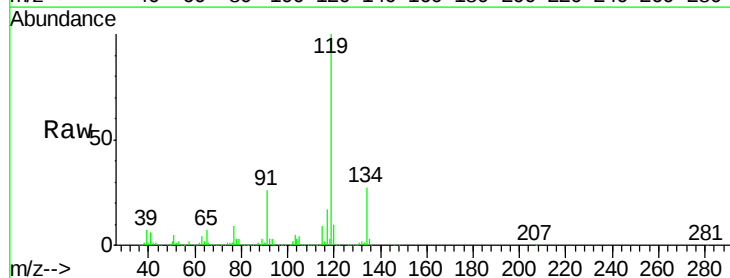
Instrument :
 MSVOA_N
 ClientSampleId :
 002M-35TH-AVE(JAN)

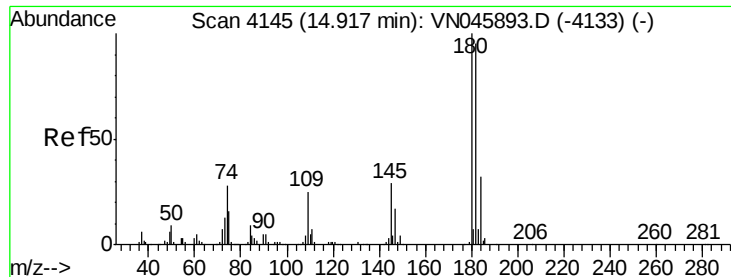
Tgt Ion:105 Resp: 25586
 Ion Ratio Lower Upper
 105 100
 120 43.7 0.0 0.4#



#82
 p-Isopropyltoluene
 Concen: 23.45 ug/l
 RT: 13.30 min Scan# 3643
 Delta R.T. 0.01 min
 Lab File: VN046331.D
 Acq: 5 Jan 2018 13:03

Tgt Ion:119 Resp: 720456
 Ion Ratio Lower Upper
 119 100
 134 27.0 0.0 52.2
 91 26.0 0.0 47.8

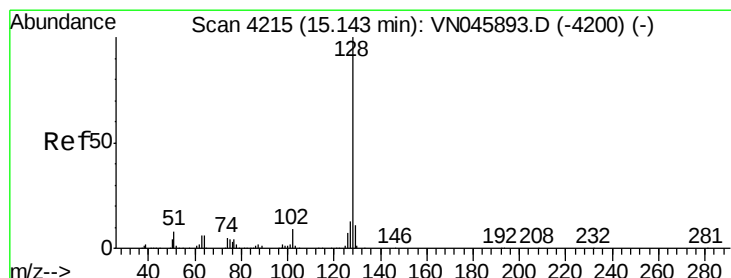
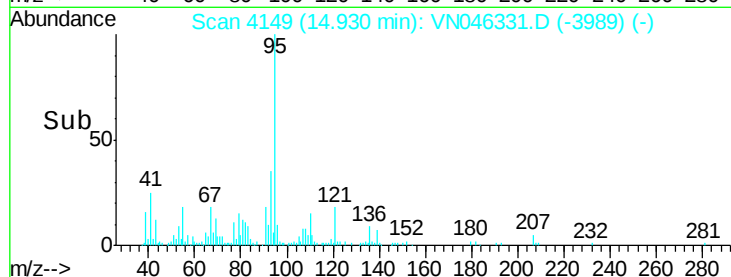
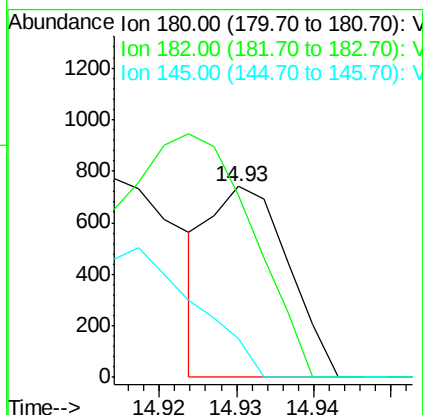
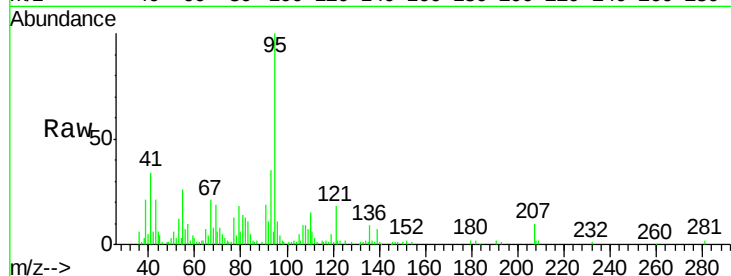




#89
1,2,4-Trichlorobenzene
Concen: 6.02 ug/l
RT: 14.93 min Scan# 4149
Delta R.T. 0.01 min
Lab File: VN046331.D
Acq: 5 Jan 2018 13:03

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

Tgt Ion:180 Resp: 522
Ion Ratio Lower Upper
180 100
182 181.4 75.8 113.6#
145 107.5 23.4 35.2#



#91
Naphthalene
Concen: 7.14 ug/l
RT: 15.14 min Scan# 4214
Delta R.T. -0.00 min
Lab File: VN046331.D
Acq: 5 Jan 2018 13:03

Tgt Ion:128 Resp: 7974
Ion Ratio Lower Upper
128 100
127 25.9 10.5 15.7#
129 13.4 8.9 13.3#

