

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080818\
 Data File : VN050473.D
 Acq On : 8 Aug 2018 21:01
 Operator : MD\SY
 Sample : J4276-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OK-02-080718

Quant Time: Aug 09 01:00:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	751207	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1197722	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1032430	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	437998	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	487739	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
35) Dibromofluoromethane	7.59	113	448950	46.71	ug/l	0.00
Spiked Amount			Recovery	=	93.42%	
50) Toluene-d8	10.09	98	1623159	44.92	ug/l	0.00
Spiked Amount			Recovery	=	89.84%	
62) 4-Bromofluorobenzene	12.40	95	488820	39.69	ug/l	0.00
Spiked Amount			Recovery	=	79.38%	

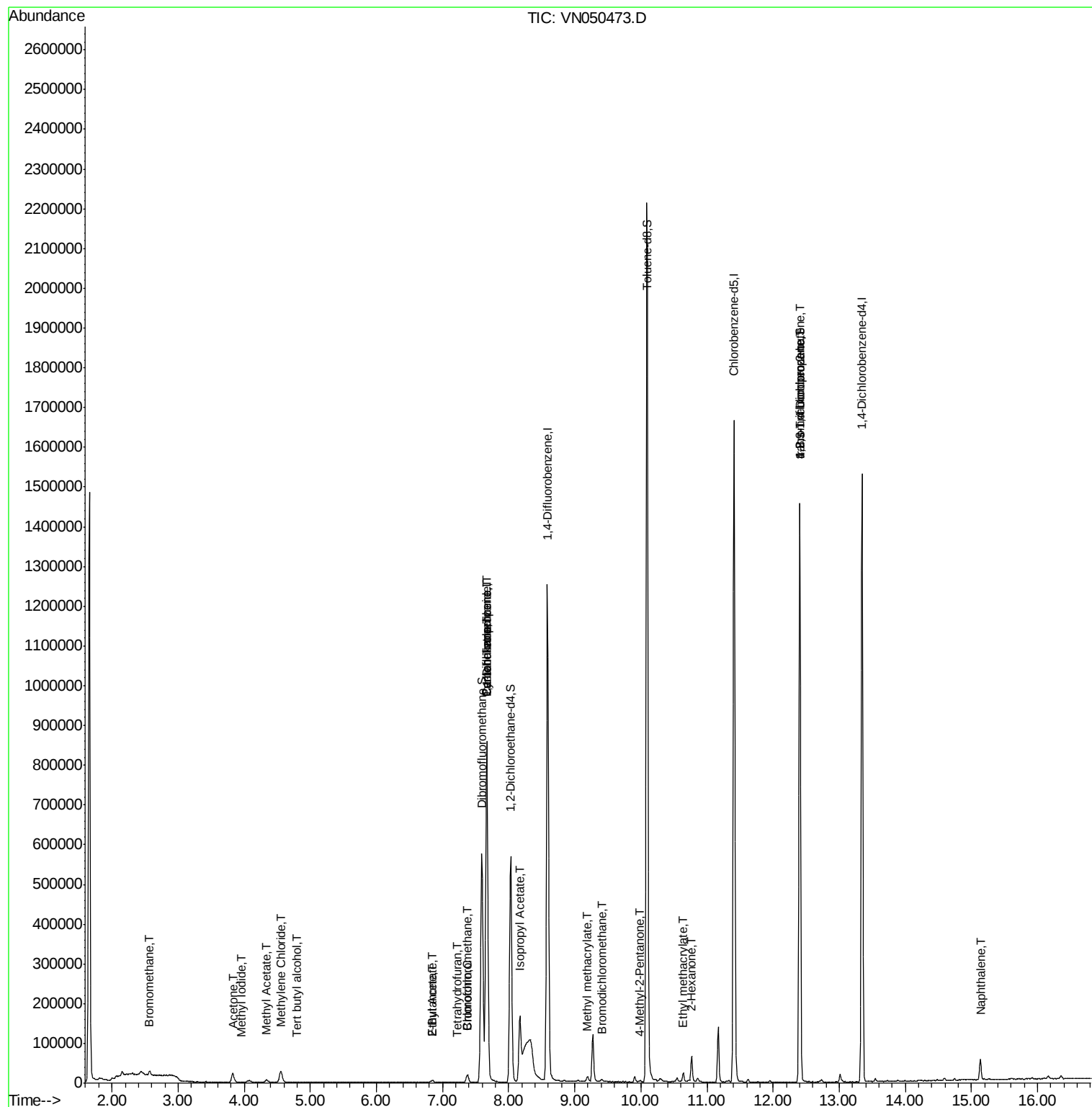
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3650	Below Cal	#	88
5) Bromomethane	2.57	94	6715	1.45	ug/l	97
10) Methyl Iodide	3.96	142	1868	0.49	ug/l	# 65
11) Tert butyl alcohol	4.79	59	937	1.16	ug/l	# 72
16) Acetone	3.82	43	38486	12.52	ug/l	95
18) Methyl Acetate	4.34	43	12150	1.37	ug/l	92
20) Methylene Chloride	4.55	84	23038	1.00	ug/l	94
25) 2-Butanone	6.85	43	5349	1.08	ug/l	100
28) Bromochloromethane	7.37	49	1668	0.22	ug/l	# 10
29) Tetrahydrofuran	7.23	42	799	0.30	ug/l	# 74
30) Chloroform	7.38	83	21083	1.29	ug/l	95
31) Cyclohexane	7.67	56	13507	0.31	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	50753	3.86	ug/l	# 48
37) Ethyl Acetate	6.85	43	5349	0.56	ug/l	# 67
38) Carbon Tetrachloride	7.67	117	67022	4.88	ug/l	# 16
43) Isopropyl Acetate	8.17	43	221528	13.54	ug/l	97
47) Bromodichloromethane	9.41	83	3711	0.27	ug/l	88
48) Methyl methacrylate	9.18	41	6995	0.85	ug/l	# 23
51) 4-Methyl-2-Pentanone	9.98	43	2807	0.24	ug/l	95
56) Ethyl methacrylate	10.64	69	349	1.74	ug/l	# 1
59) 2-Hexanone	10.77	43	8769	1.07	ug/l	# 60
76) 1,2,3-Trichloropropane	12.40	75	234781	29.61	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	234781	104.05	ug/l	# 13
95) Naphthalene	15.14	128	44266	5.56	ug/l	100

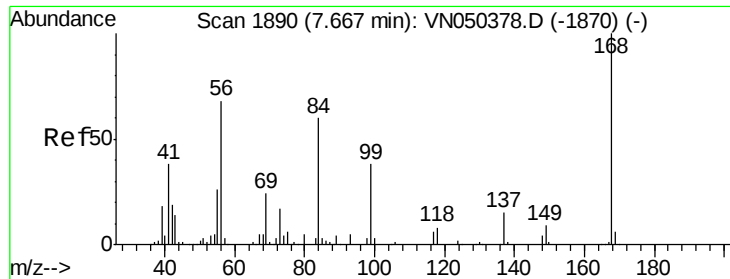
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 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: VN050473.D

Acq: 8 Aug 2018 21:01

Instrument :

MSVOA_N

ClientSampleId :

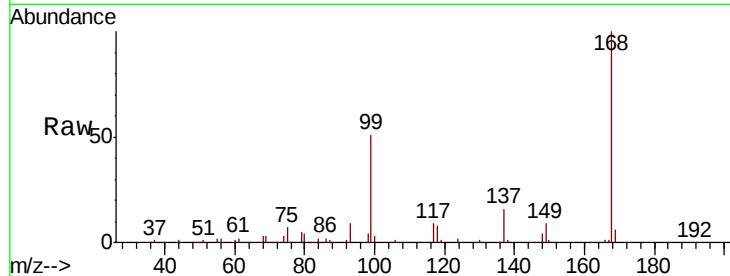
OK-02-080718

Tot Ion:168 Resp: 751207

Ion Ratio Lower Upper

168 100

99 50.9 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

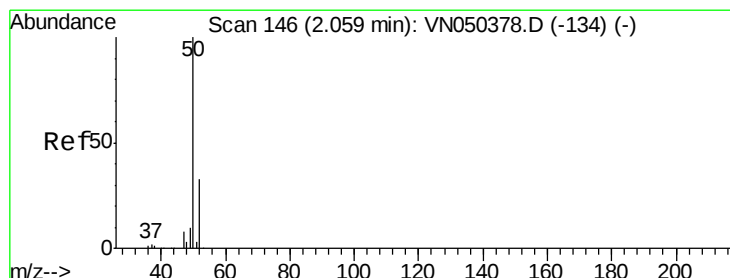
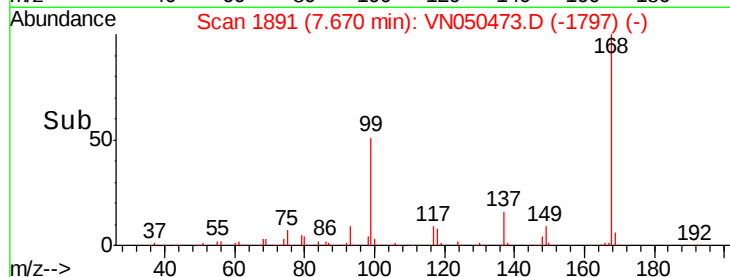
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050473.D

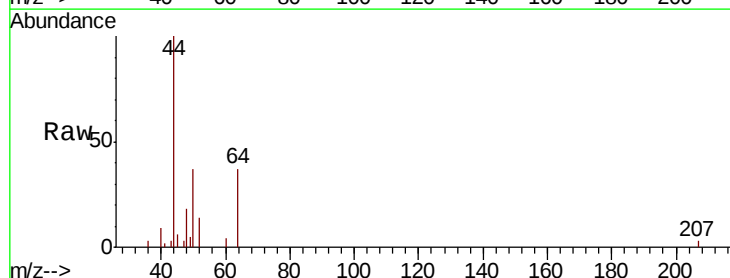
Acq: 8 Aug 2018 21:01

Tgt Ion: 50 Resp: 3650

Ion Ratio Lower Upper

50 100

52 39.1 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

3000

2500

2000

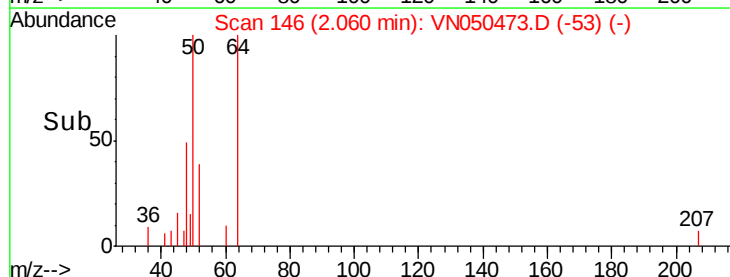
1500

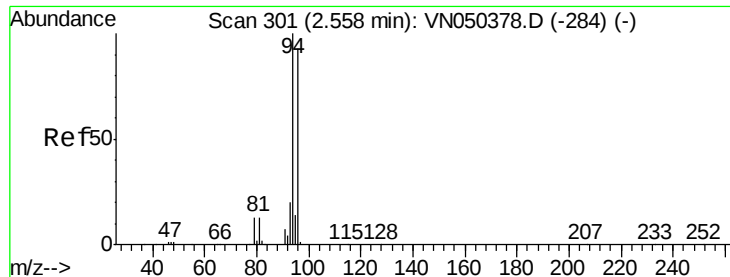
1000

500

0

Time-->





#5

Bromomethane

Concen: 1.45 ug/l

RT: 2.57 min Scan# 305

Delta R.T. 0.01 min

Lab File: VN050473.D

Acq: 8 Aug 2018 21:01

Instrument :

MSVOA_N

ClientSampleId :

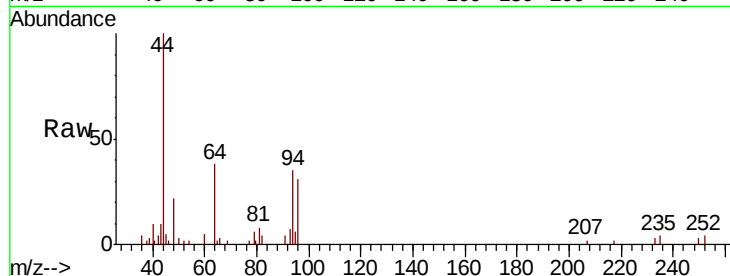
OK-02-080718

Tot Ion: 94 Resp: 6715

Ion Ratio Lower Upper

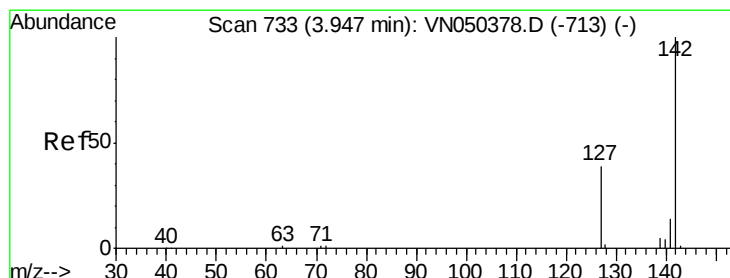
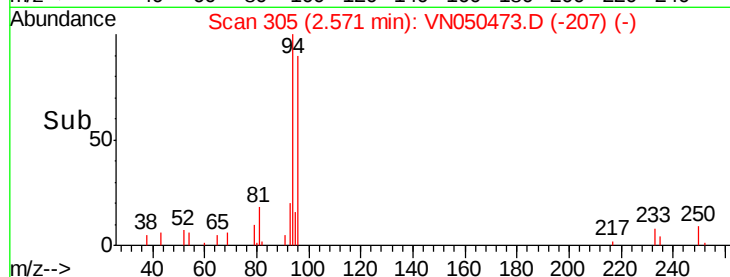
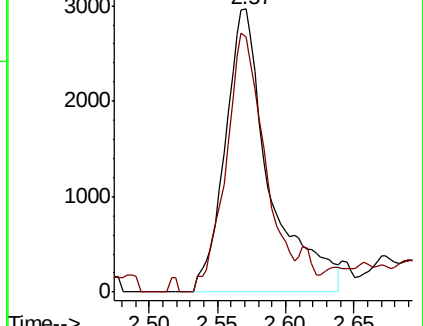
94 100

96 90.3 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050378.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050378.D (-284) (-)



#10

Methyl Iodide

Concen: 0.49 ug/l

RT: 3.96 min Scan# 737

Delta R.T. 0.01 min

Lab File: VN050473.D

Acq: 8 Aug 2018 21:01

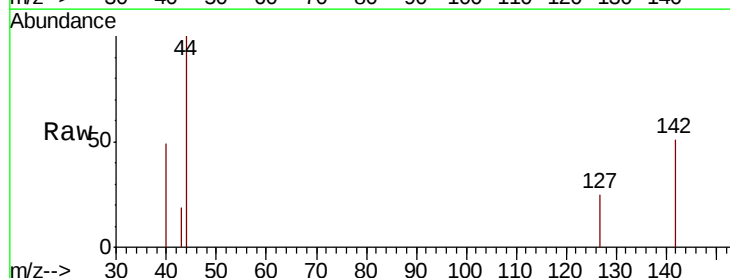
Tgt Ion: 142 Resp: 1868

Ion Ratio Lower Upper

142 100

127 19.4 33.4 50.2#

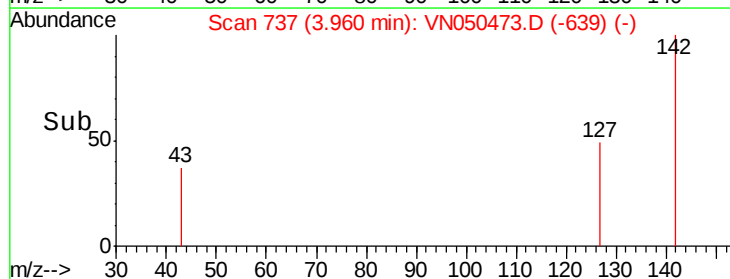
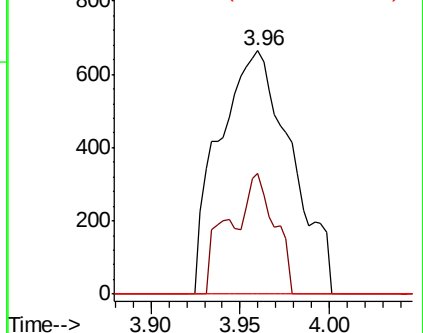
141 0.0 11.6 17.4#

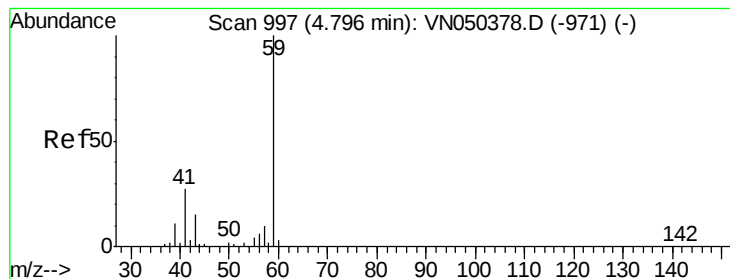


Abundance Ion 141.80 (141.50 to 142.50): VN050378.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050378.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050378.D (-713) (-)



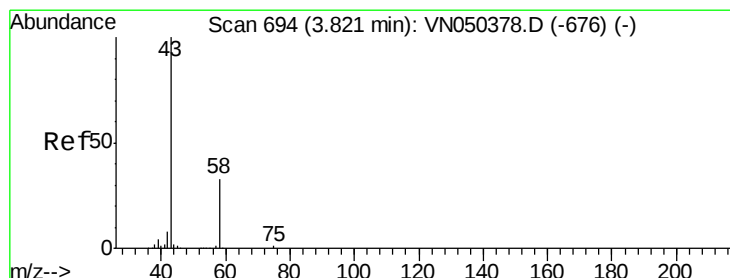
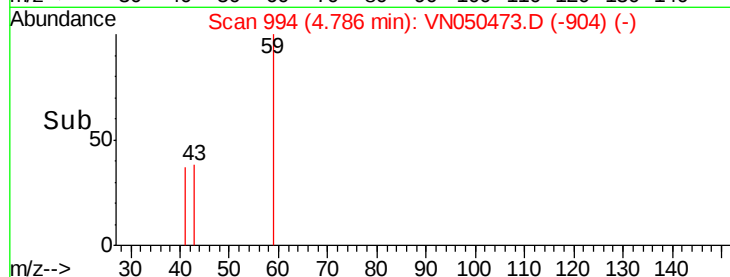
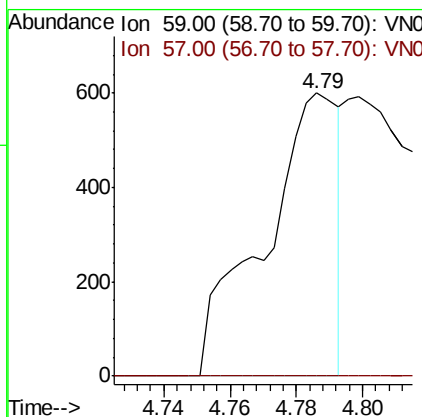
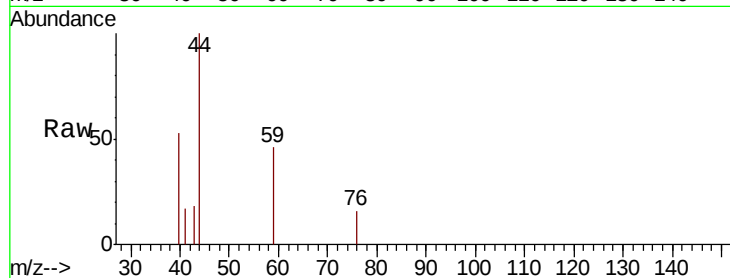


#11

Tert butyl alcohol
 Concen: 1.16 ug/l
 RT: 4.79 min Scan# 994
 Delta R.T. -0.01 min
 Lab File: VN050473.D
 Acq: 8 Aug 2018 21:01

Instrument :
 MSVOA_N
 ClientSampleId :
 OK-02-080718

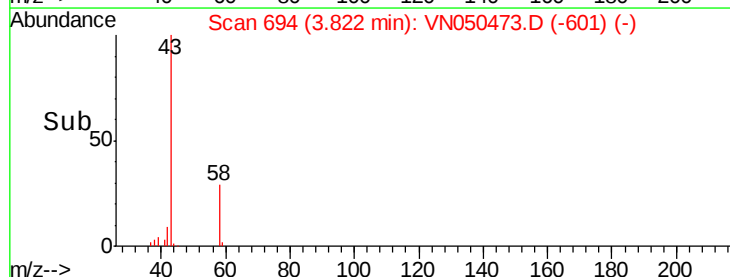
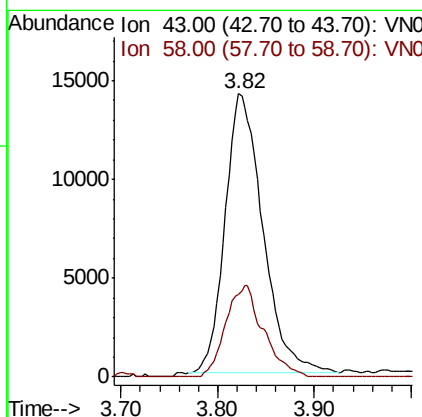
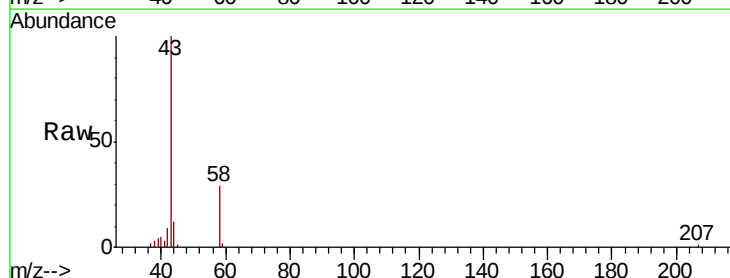
Tot Ion: 59 Resp: 937
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

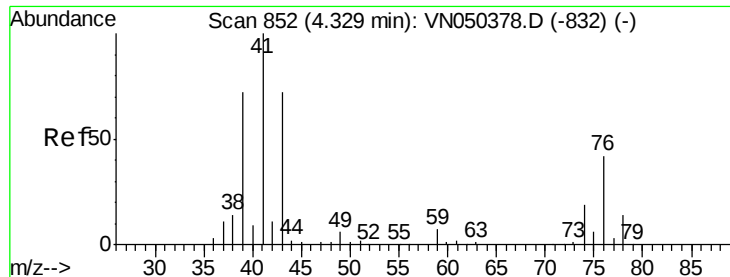


#16

Acetone
 Concen: 12.52 ug/l
 RT: 3.82 min Scan# 694
 Delta R.T. 0.00 min
 Lab File: VN050473.D
 Acq: 8 Aug 2018 21:01

Tgt Ion: 43 Resp: 38486
 Ion Ratio Lower Upper
 43 100
 58 29.4 25.8 38.8

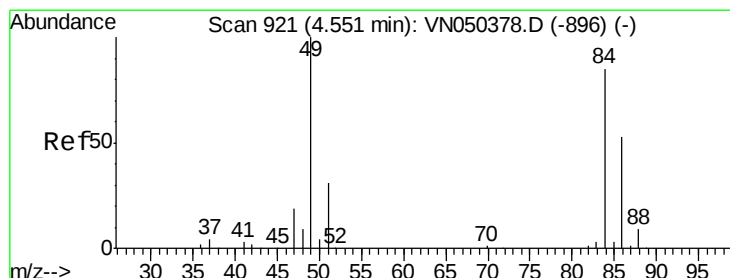
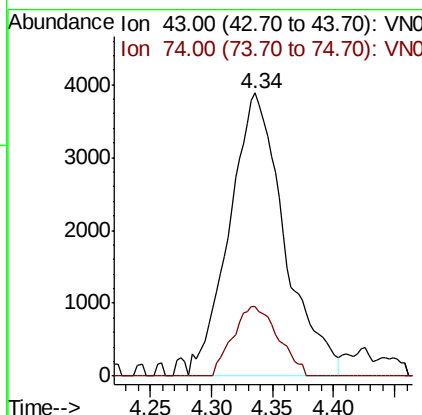
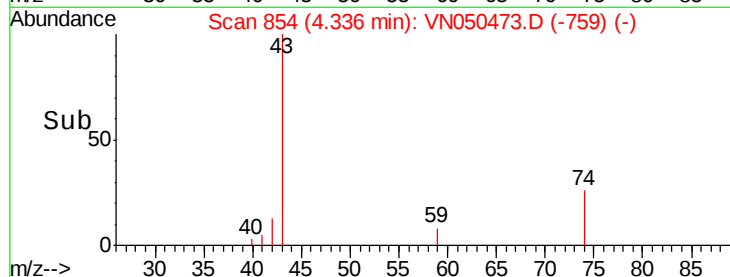
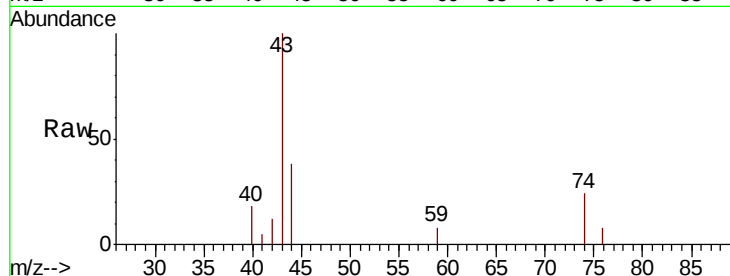




#18
Methyl Acetate
Concen: 1.37 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.01 min
Lab File: VN050473.D
Acq: 8 Aug 2018 21:01

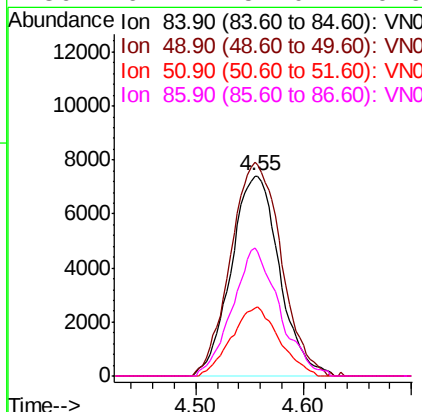
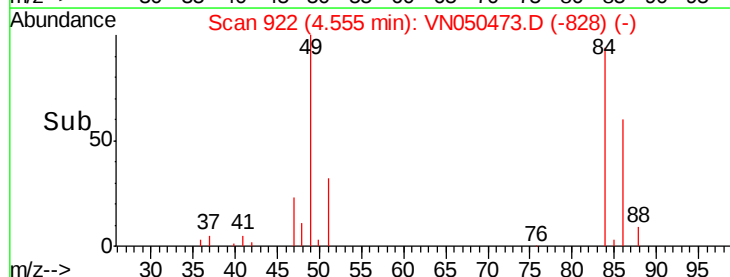
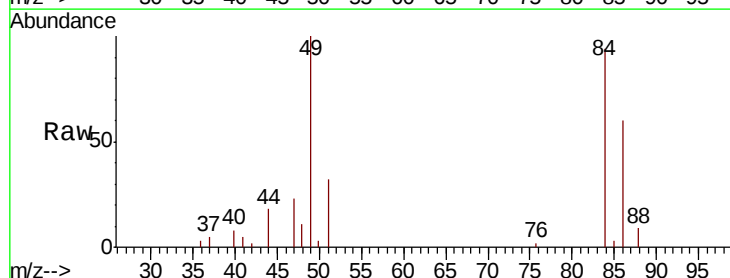
Instrument :
MSVOA_N
ClientSampleId :
OK-02-080718

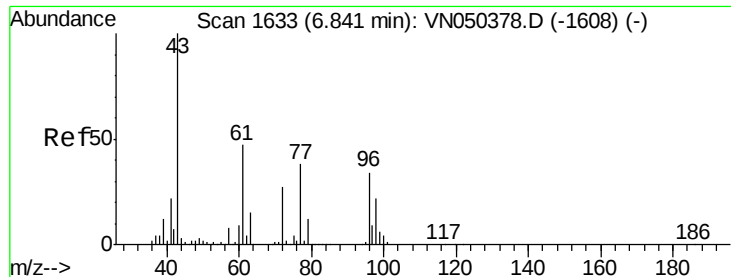
Tot Ion: 43 Resp: 12150
Ion Ratio Lower Upper
43 100
74 20.3 19.2 28.8



#20
Methylene Chloride
Concen: 1.00 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050473.D
Acq: 8 Aug 2018 21:01

Tgt Ion: 84 Resp: 23038
Ion Ratio Lower Upper
84 100
49 106.8 94.8 142.2
51 34.0 28.3 42.5
86 64.2 51.0 76.6





#25

2-Butanone

Concen: 1.08 ug/l

RT: 6.85 min Scan# 1637

Delta R.T. 0.01 min

Lab File: VN050473.D

Acq: 8 Aug 2018 21:01

Instrument :

MSVOA_N

ClientSampleId :

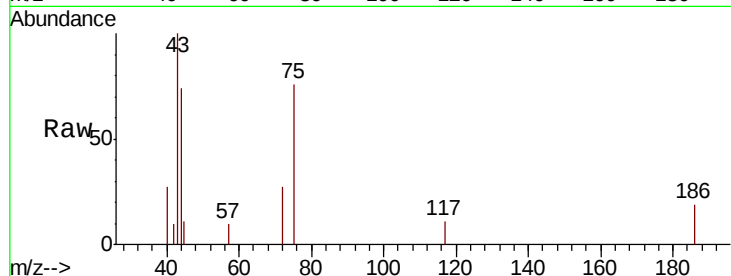
OK-02-080718

Tot Ion: 43 Resp: 5349

Ion Ratio Lower Upper

43 100

72 27.1 21.5 32.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

2000

1500

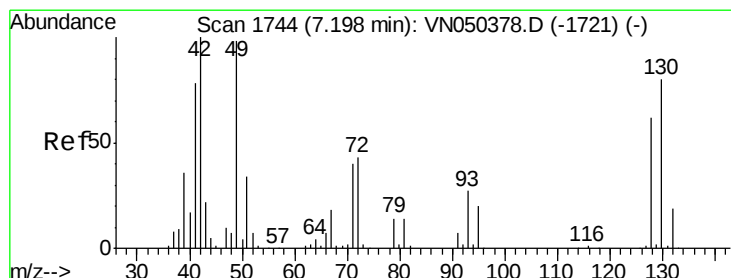
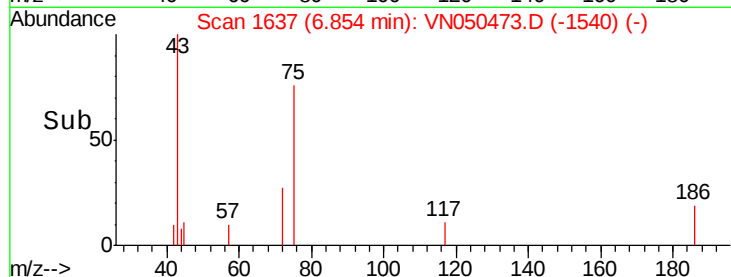
1000

500

0

6.75 6.80 6.85 6.90 6.95

Time-->



#28

Bromochloromethane

Concen: 0.22 ug/l

RT: 7.37 min Scan# 1798

Delta R.T. 0.17 min

Lab File: VN050473.D

Acq: 8 Aug 2018 21:01

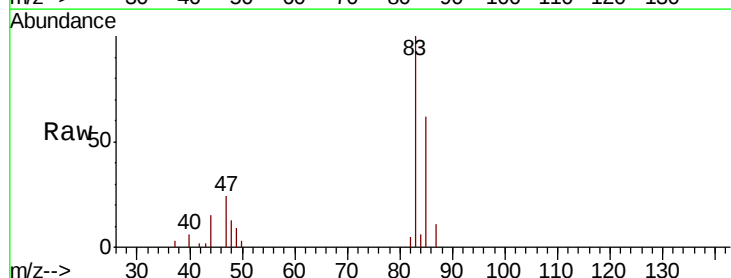
Tgt Ion: 49 Resp: 1668

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

130 0.0 66.3 99.5#



Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

800

600

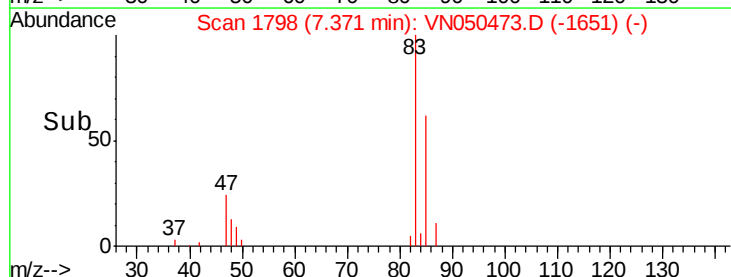
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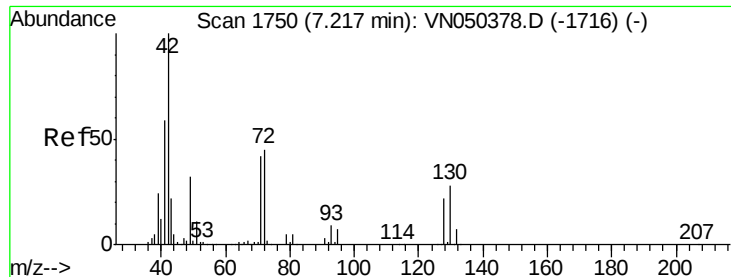
200

0

7.35 7.40

Time-->





#29

Tetrahydrofuran

Concen: 0.30 ug/l

RT: 7.23 min Scan# 1753

Delta R.T. 0.01 min

Lab File: VN050473.D

Acq: 8 Aug 2018 21:01

Instrument :

MSVOA_N

ClientSampled :

OK-02-080718

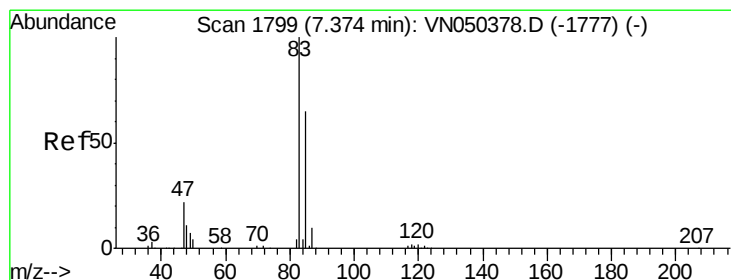
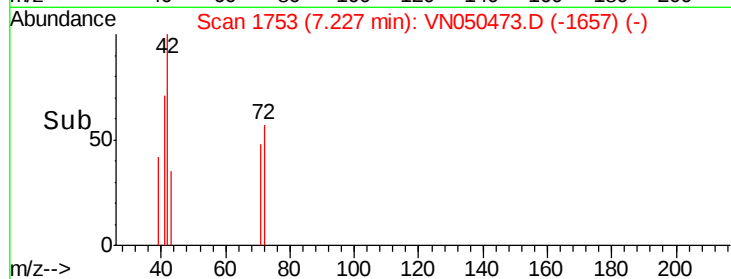
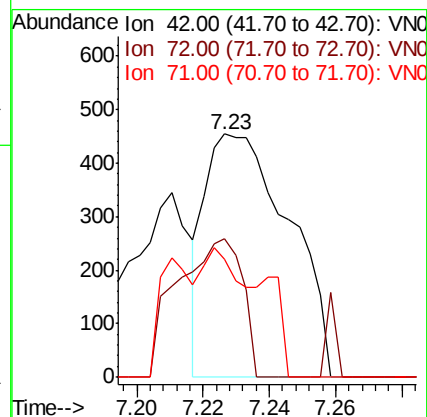
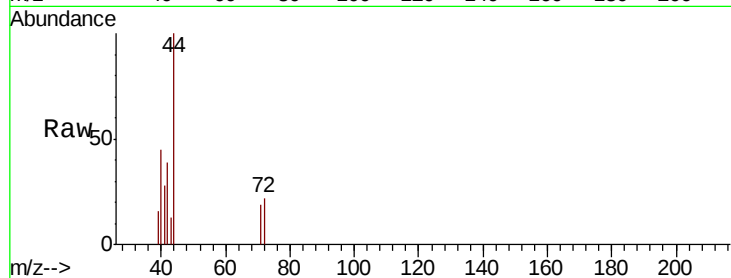
Tot Ion: 42 Resp: 799

Ion Ratio Lower Upper

42 100

72 43.9 35.9 53.9

71 9.3 33.7 50.5#



#30

Chloroform

Concen: 1.29 ug/l

RT: 7.38 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VN050473.D

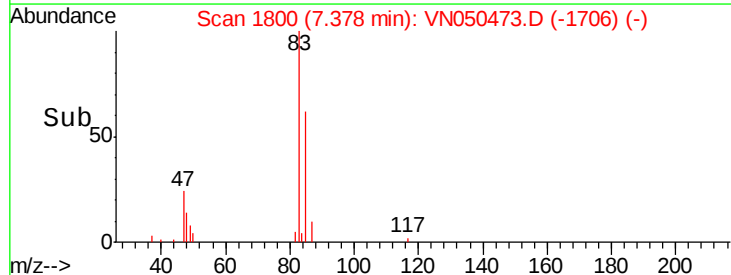
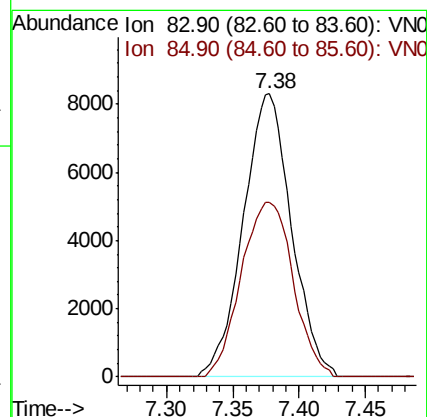
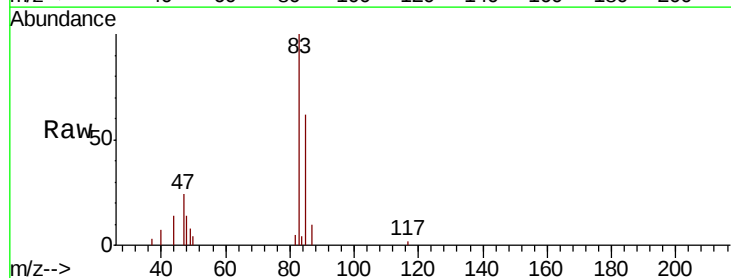
Acq: 8 Aug 2018 21:01

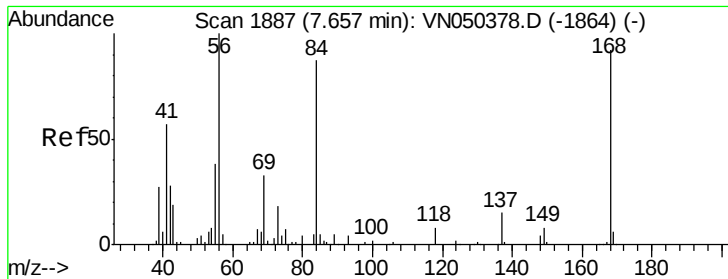
Tgt Ion: 83 Resp: 21083

Ion Ratio Lower Upper

83 100

85 61.8 52.5 78.7

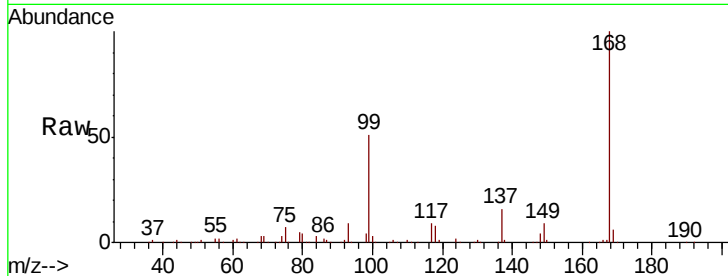




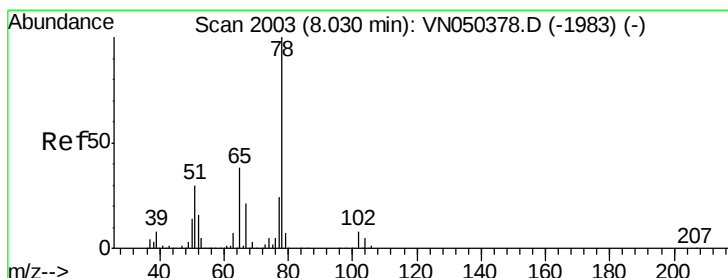
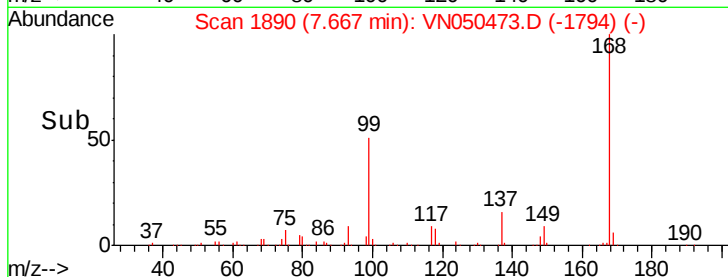
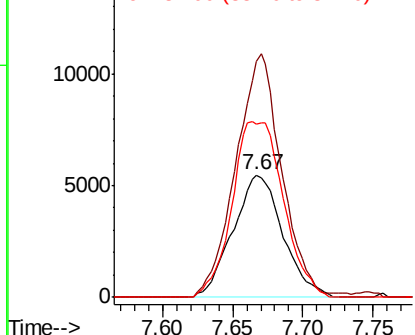
#31
Cvclohexane
Concen: 0.31 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN050473.D
Acq: 8 Aug 2018 21:01

Instrument :
MSVOA_N
ClientSampled :
OK-02-080718

Tot Ion: 56 Resp: 13507
Ion Ratio Lower Upper
56 100
69 193.0 26.2 39.4#
84 141.7 67.4 101.0#

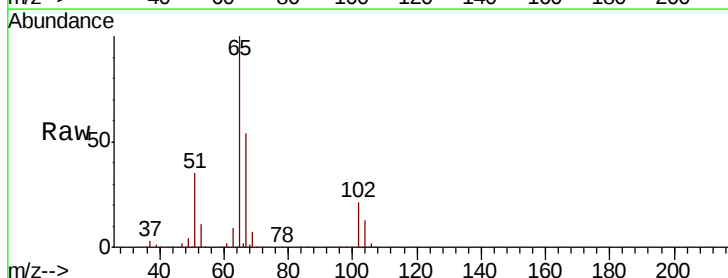


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

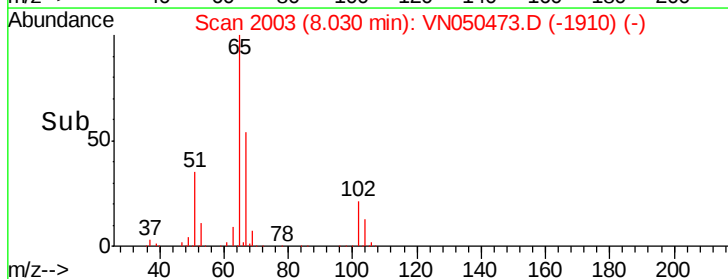
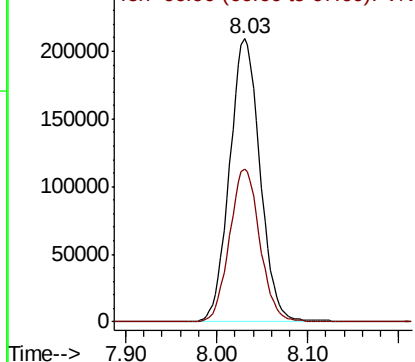


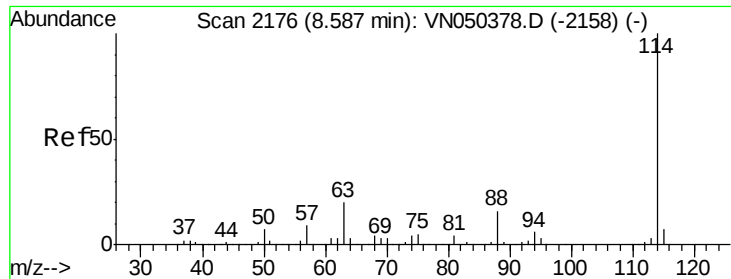
#33
1,2-Dichloroethane-d4
Concen: 48.60 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050473.D
Acq: 8 Aug 2018 21:01

Tgt Ion: 65 Resp: 487739
Ion Ratio Lower Upper
65 100
67 53.6 0.0 108.4



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



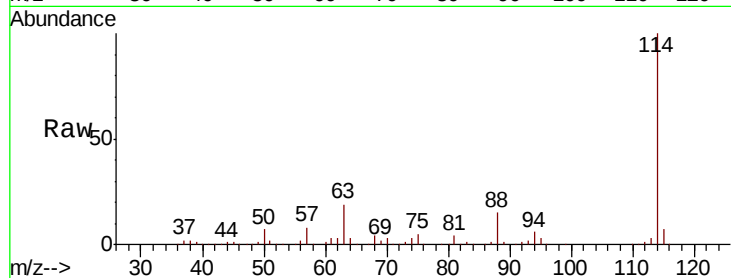


#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050473.D
 Acq: 8 Aug 2018 21:01

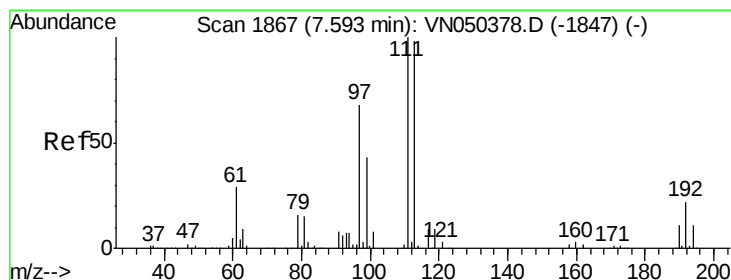
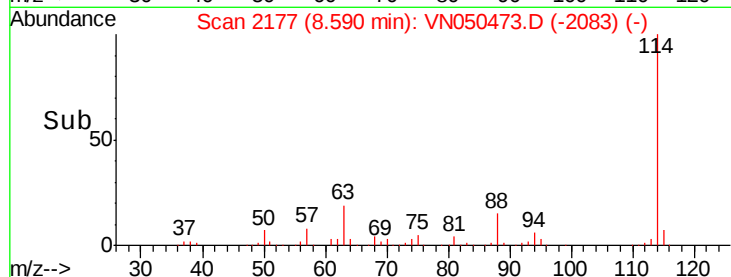
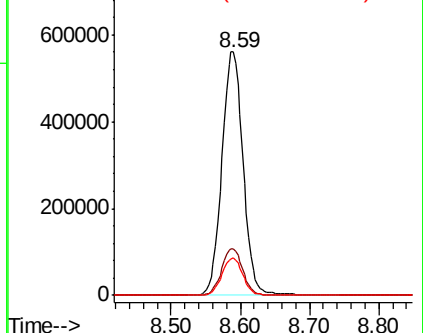
Instrument :
 MSVOA_N
 ClientSampleId :
 OK-02-080718

Tot Ion:114 Resp: 1197722

Ion	Ratio	Lower	Upper
114	100		
63	19.3	0.0	40.0
88	15.2	0.0	31.2



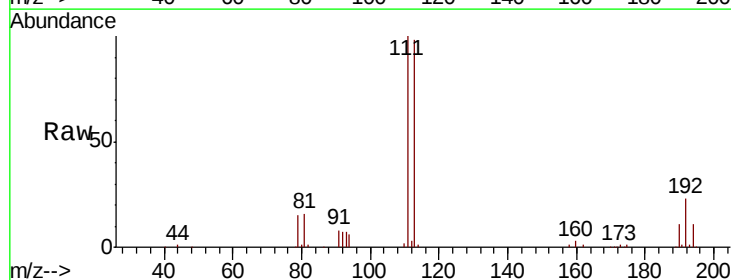
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN



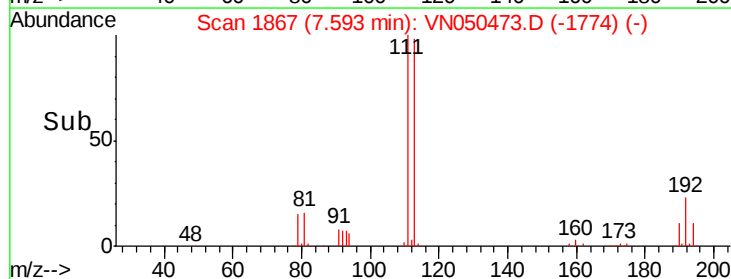
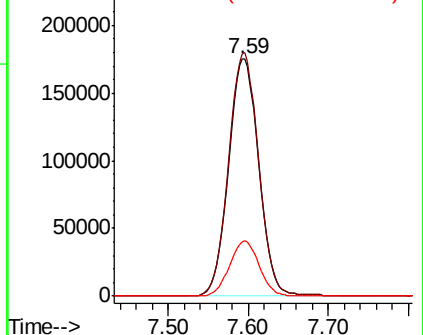
#35
 Dibromofluoromethane
 Concen: 46.71 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050473.D
 Acq: 8 Aug 2018 21:01

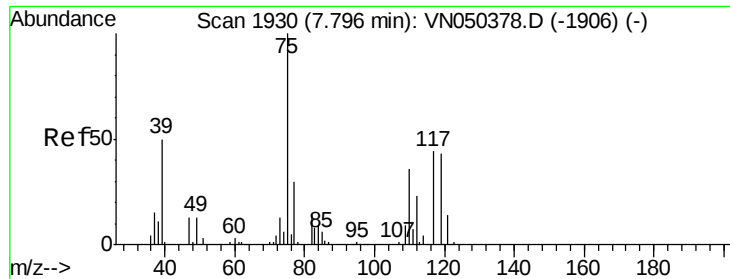
Tgt Ion:113 Resp: 448950

Ion	Ratio	Lower	Upper
113	100		
111	102.0	80.7	121.1
192	22.7	17.8	26.6



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

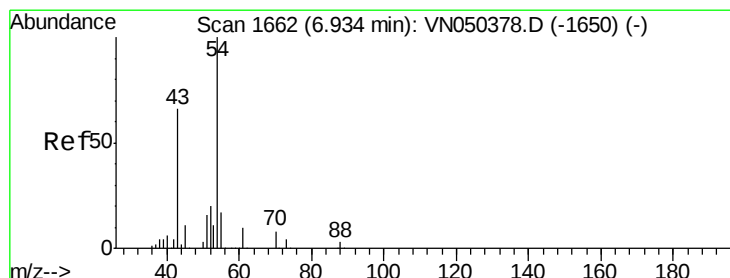
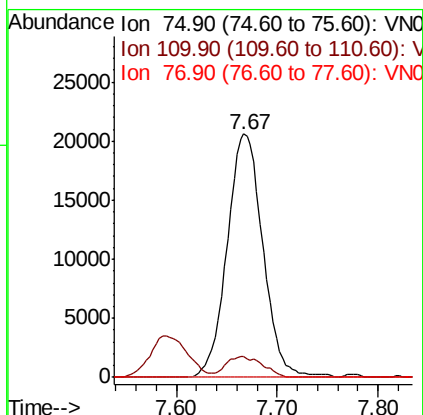
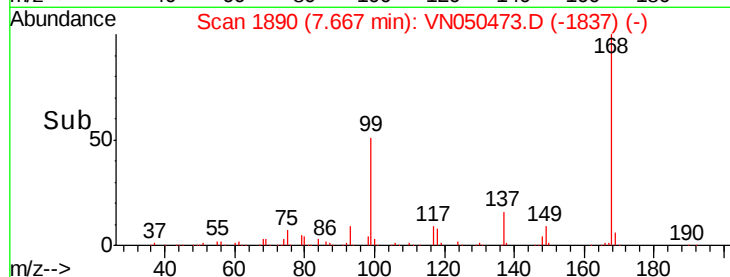
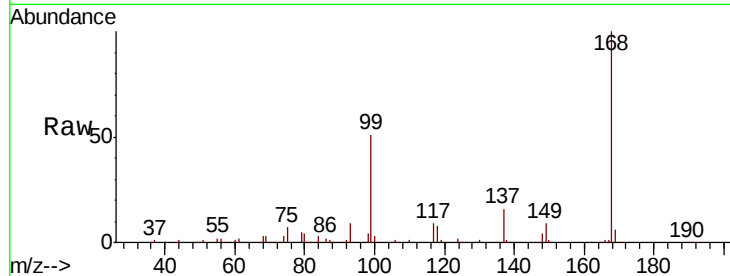




#36
 1,1-Dichloropropene
 Concen: 3.86 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050473.D
 Acq: 8 Aug 2018 21:01

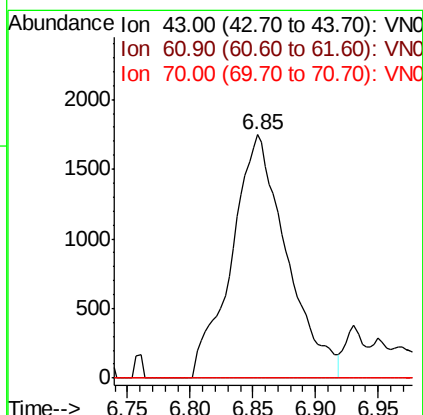
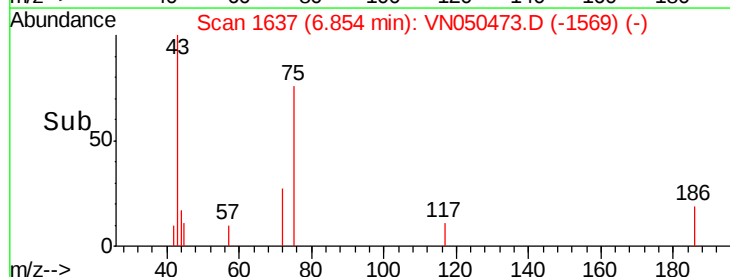
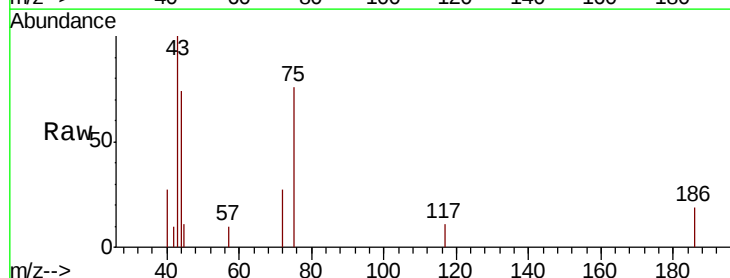
Instrument :
 MSVOA_N
 ClientSampled :
 OK-02-080718

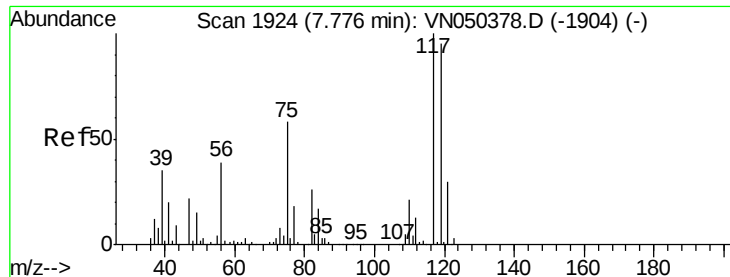
Tot Ion: 75 Resp: 50753
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.4 55.2#
 77 0.0 25.3 37.9#



#37
 Ethyl Acetate
 Concen: 0.56 ug/l
 RT: 6.85 min Scan# 1637
 Delta R.T. -0.08 min
 Lab File: VN050473.D
 Acq: 8 Aug 2018 21:01

Tgt Ion: 43 Resp: 5349
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.8 17.8#
 70 0.0 8.4 12.6#

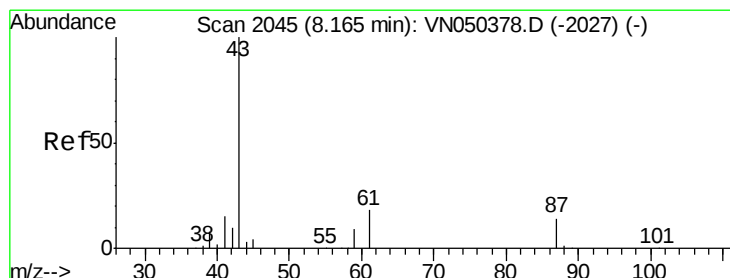
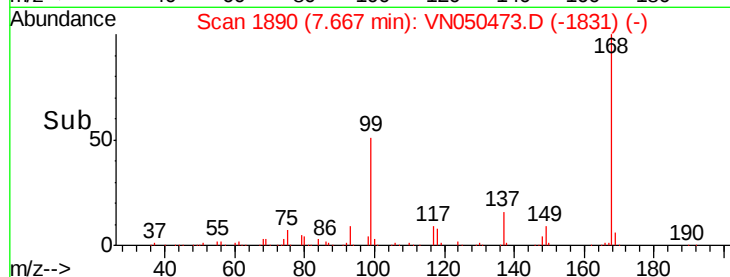
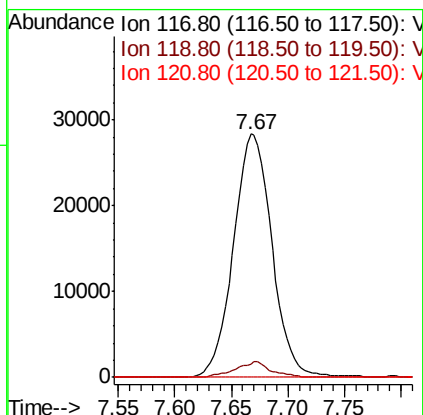
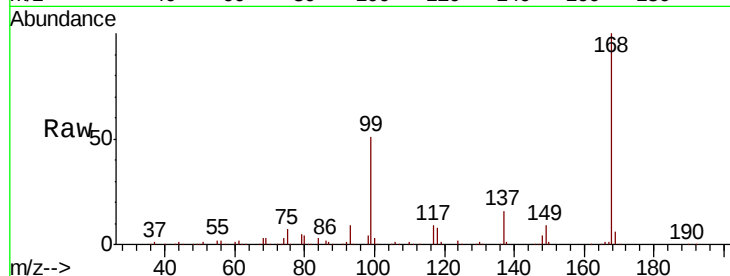




#38
Carbon Tetrachloride
Concen: 4.88 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN050473.D
Acq: 8 Aug 2018 21:01

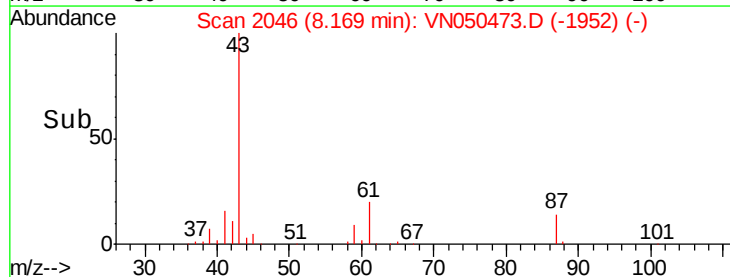
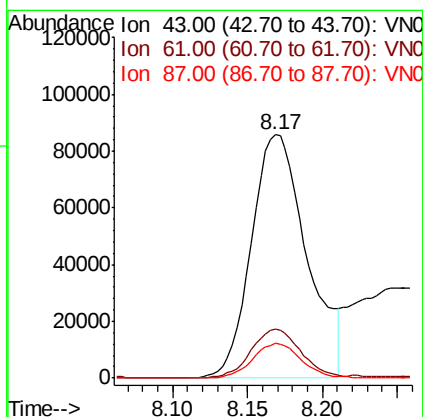
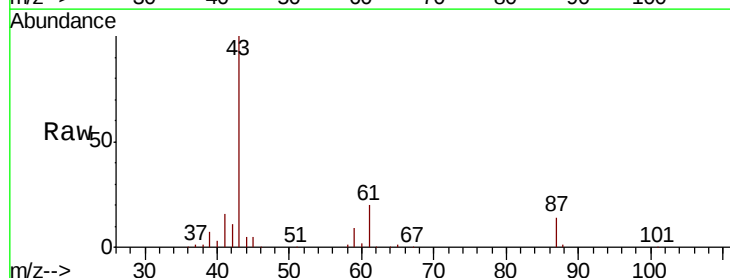
Instrument :
MSVOA_N
ClientSampleId :
OK-02-080718

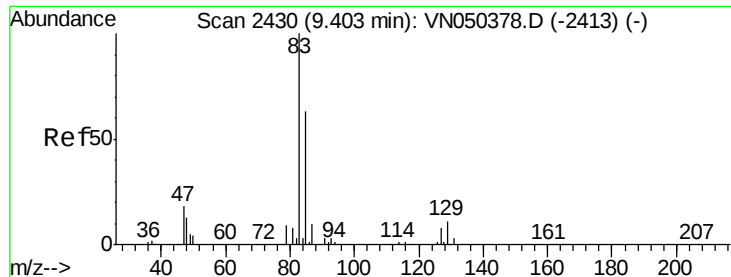
Tot Ion:117 Resp: 67022
Ion Ratio Lower Upper
117 100
119 5.6 77.4 116.0#
121 0.0 23.9 35.9#



#43
Isopropyl Acetate
Concen: 13.54 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN050473.D
Acq: 8 Aug 2018 21:01

Tgt Ion: 43 Resp: 221528
Ion Ratio Lower Upper
43 100
61 18.1 15.8 23.6
87 12.5 10.3 15.5

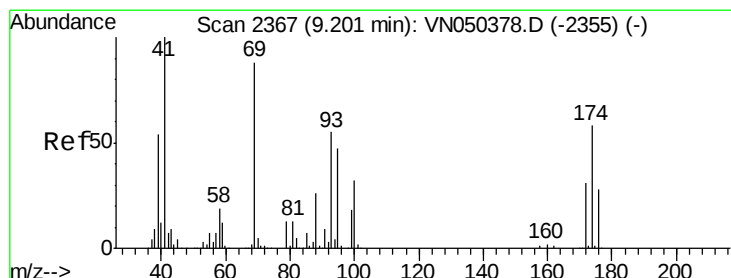
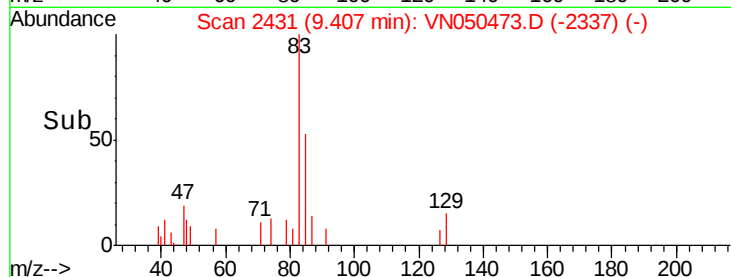
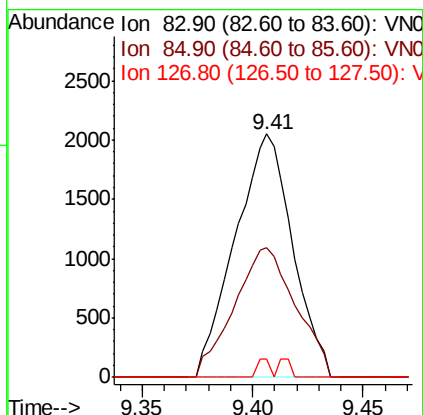
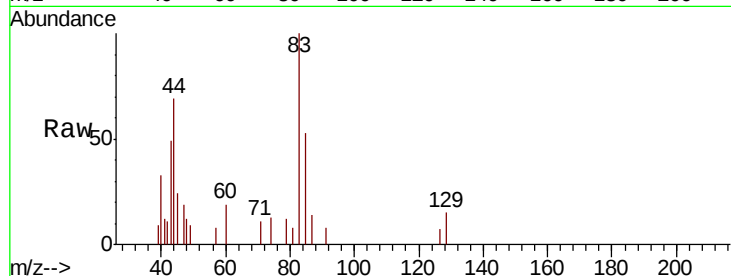




#47
Bromodichloromethane
Concen: 0.27 ug/l
RT: 9.41 min Scan# 2431
Delta R.T. 0.00 min
Lab File: VN050473.D
Acq: 8 Aug 2018 21:01

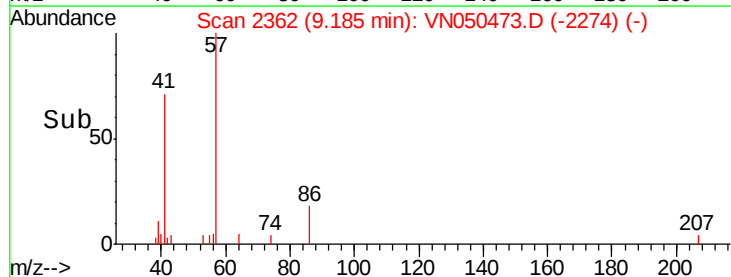
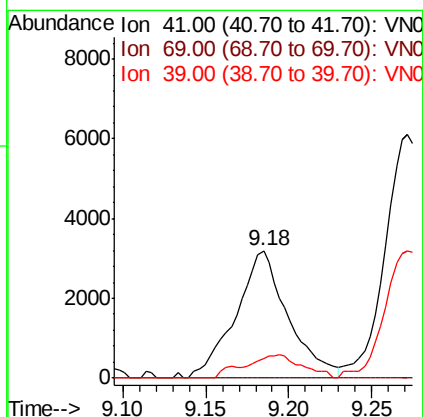
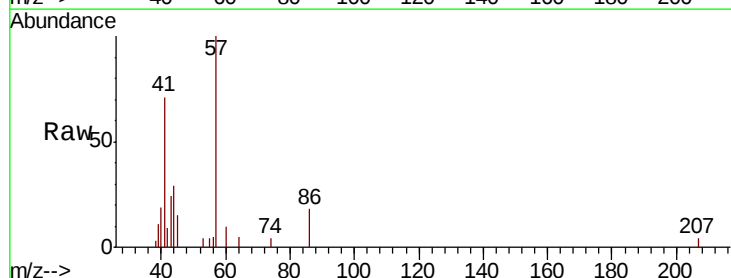
Instrument :
MSVOA_N
ClientSampled :
OK-02-080718

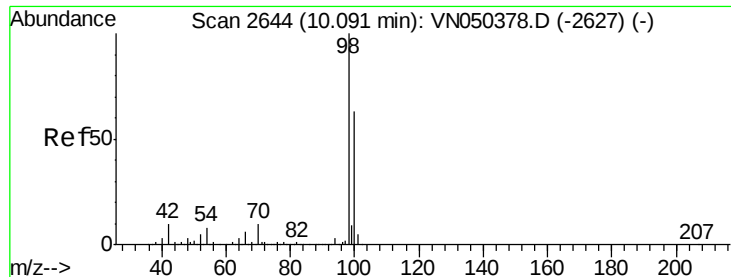
Tot Ion: 83 Resp: 3711
Ion Ratio Lower Upper
83 100
85 53.3 51.1 76.7
127 7.5 7.0 10.4



#48
Methyl methacrylate
Concen: 0.85 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050473.D
Acq: 8 Aug 2018 21:01

Tgt Ion: 41 Resp: 6995
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 20.0 43.9 65.9#





#50

Toluene-d8

Concen: 44.92 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VN050473.D

Acq: 8 Aug 2018 21:01

Instrument :

MSVOA_N

ClientSampleId :

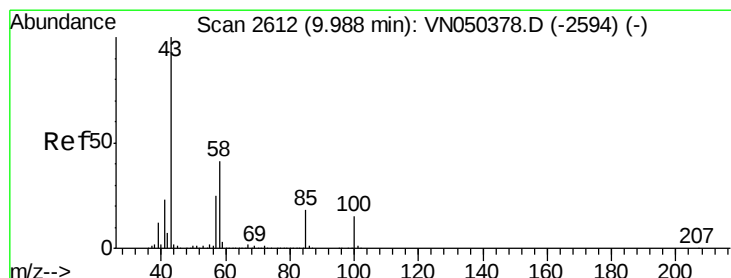
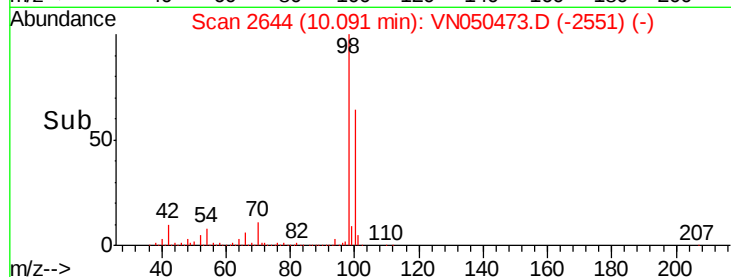
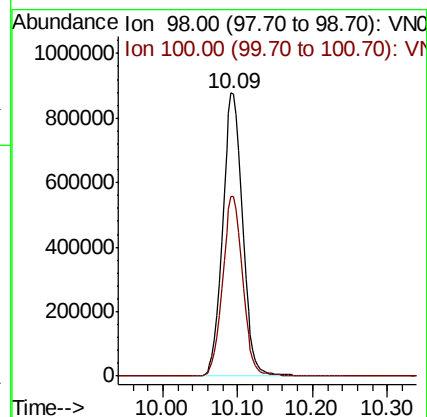
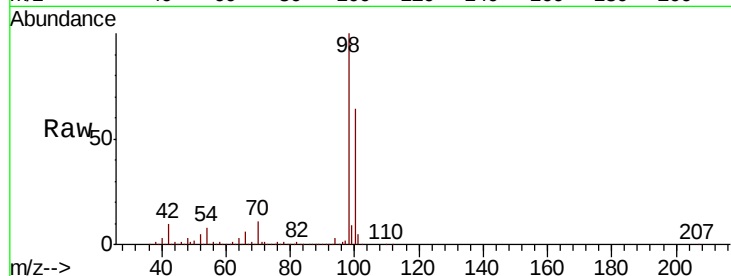
OK-02-080718

Tot Ion: 98 Resp: 1623159

Ion Ratio Lower Upper

98 100

100 63.9 50.7 76.1



#51

4-Methyl-2-Pentanone

Concen: 0.24 ug/l

RT: 9.98 min Scan# 2610

Delta R.T. -0.01 min

Lab File: VN050473.D

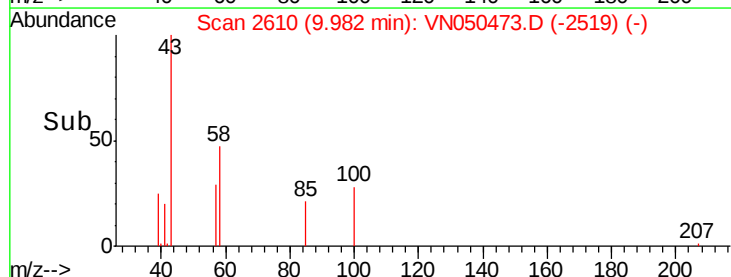
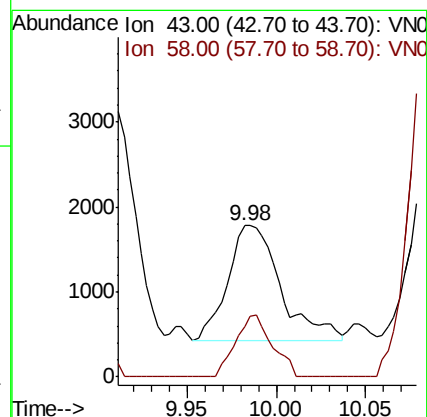
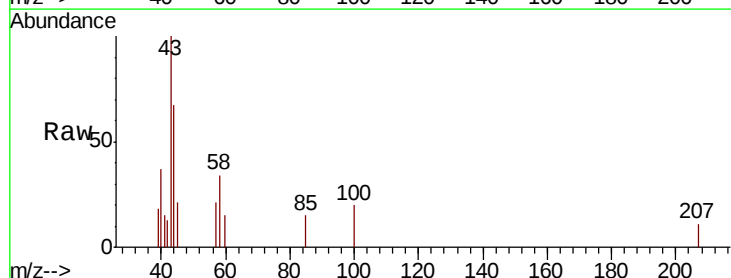
Acq: 8 Aug 2018 21:01

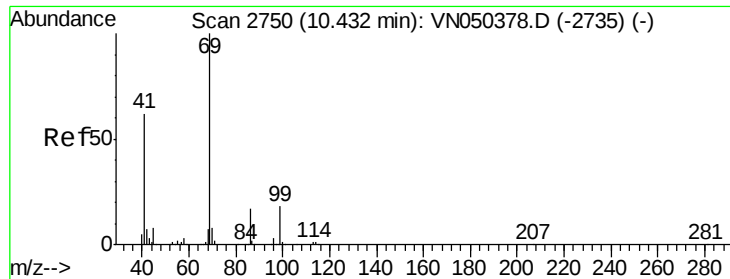
Tgt Ion: 43 Resp: 2807

Ion Ratio Lower Upper

43 100

58 36.8 31.9 47.9





#56

Ethyl methacrylate

Concen: 1.74 ug/l

RT: 10.64 min Scan# 2816

Delta R.T. 0.21 min

Lab File: VN050473.D

Acq: 8 Aug 2018 21:01

Instrument :

MSVOA_N

ClientSampleId :

OK-02-080718

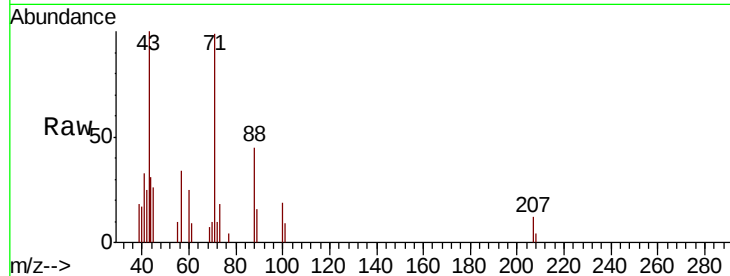
Tot Ion: 69 Resp: 349

Ion Ratio Lower Upper

69 100

41 869.6 51.0 76.4#

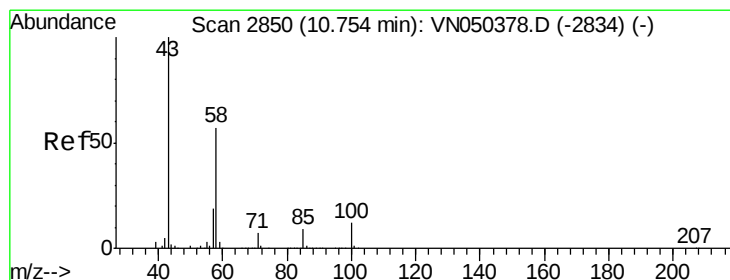
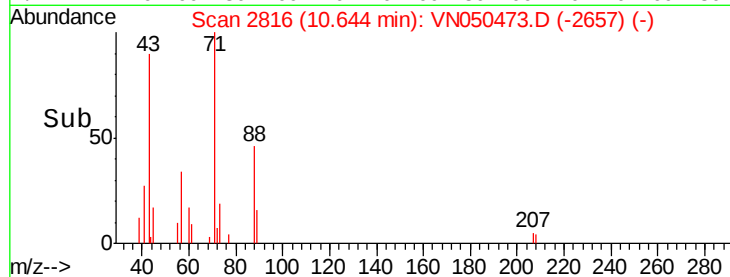
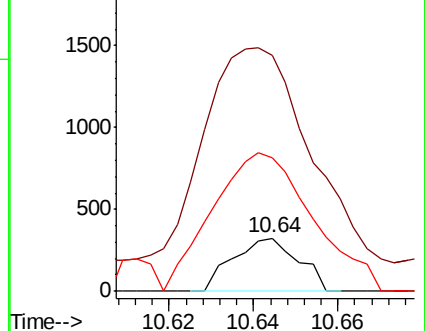
39 400.6 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 1.07 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050473.D

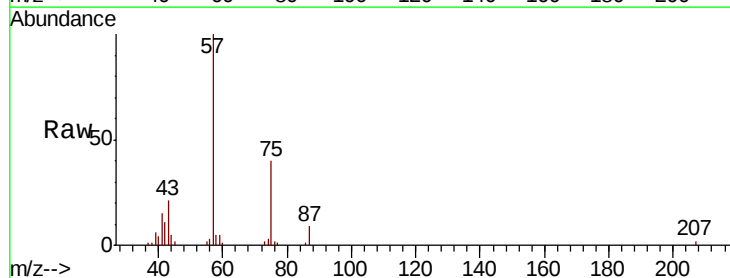
Acq: 8 Aug 2018 21:01

Tgt Ion: 43 Resp: 8769

Ion Ratio Lower Upper

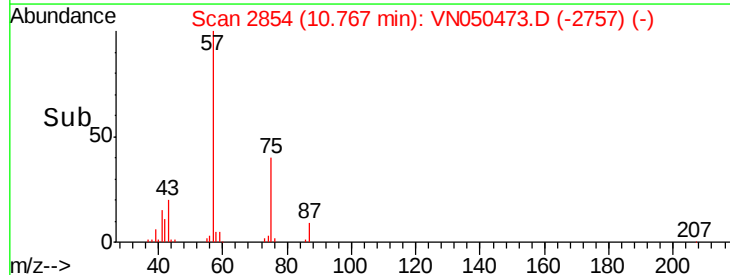
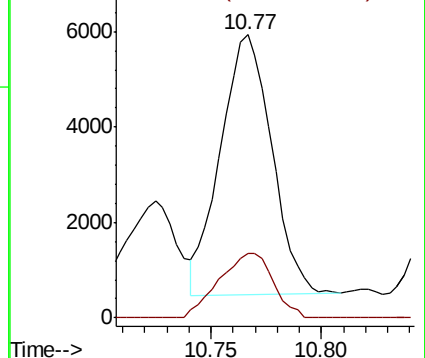
43 100

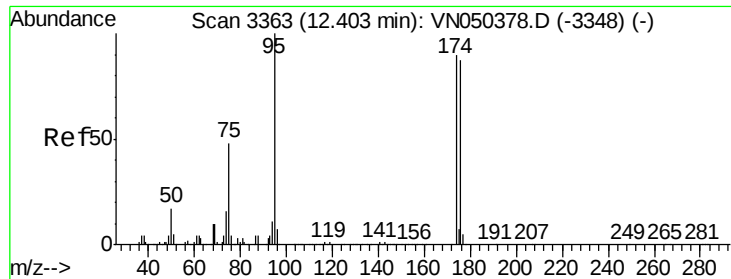
58 26.1 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 39.69 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050473.D

Acq: 8 Aug 2018 21:01

Instrument :

MSVOA_N

ClientSampleId :

OK-02-080718

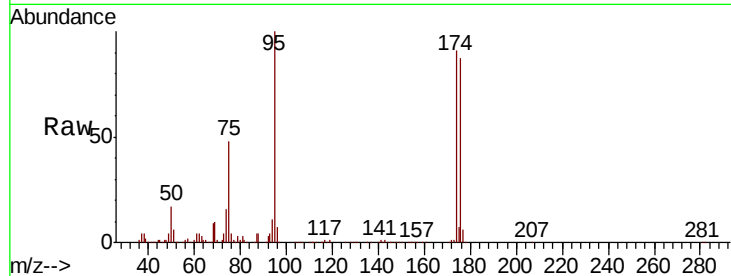
Tot Ion: 95 Resp: 488820

Ion Ratio Lower Upper

95 100

174 92.2 0.0 178.2

176 87.9 0.0 173.4

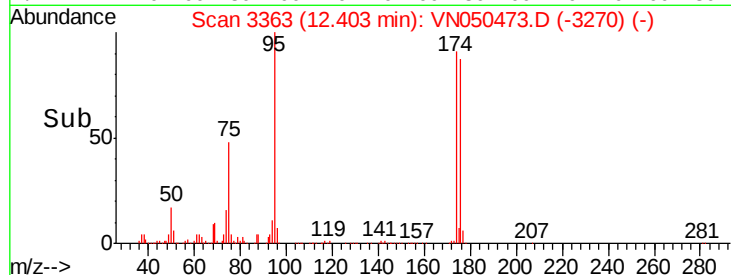


Abundance Ion 94.90 (94.60 to 95.60): VN0

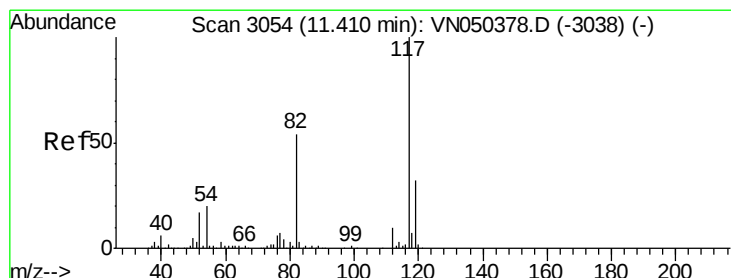
Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0

Time--> 12.30 12.40 12.50



Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050473.D

Acq: 8 Aug 2018 21:01

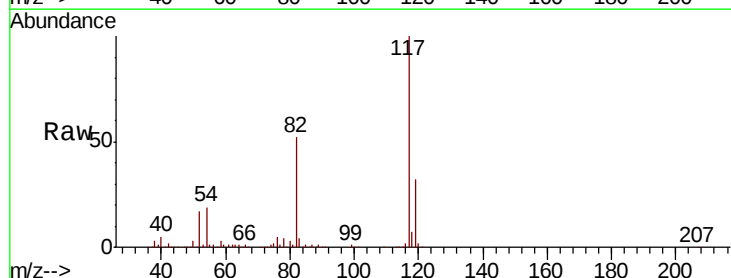
Tgt Ion: 117 Resp: 1032430

Ion Ratio Lower Upper

117 100

82 52.5 43.7 65.5

119 32.1 26.1 39.1

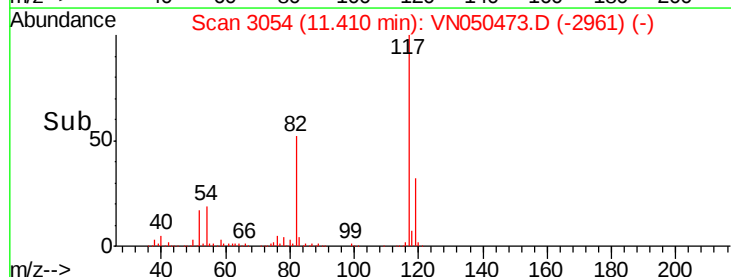


Abundance Ion 116.90 (116.60 to 117.60): VN0

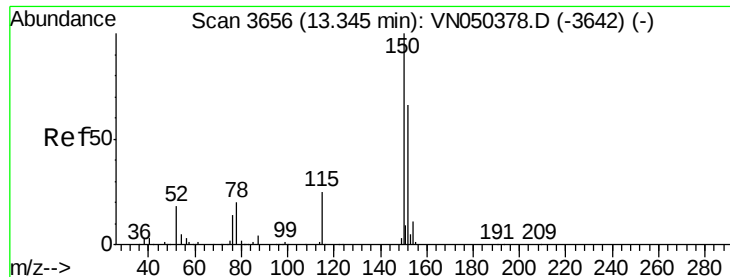
Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0

Time--> 11.30 11.40 11.50



Time--> 11.30 11.40 11.50



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050473.D

Acq: 8 Aug 2018 21:01

Instrument :

MSVOA_N

ClientSampled :

OK-02-080718

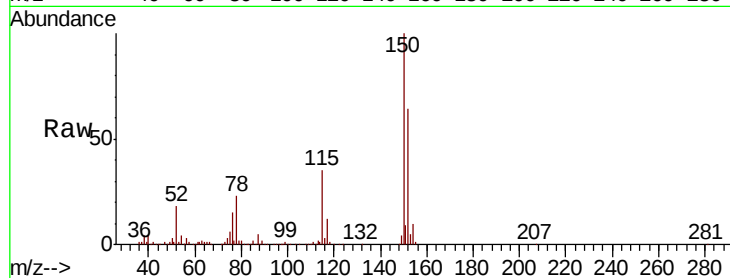
Tot Ion:152 Resp: 437998

Ion Ratio Lower Upper

152 100

115 55.3 27.8 83.3

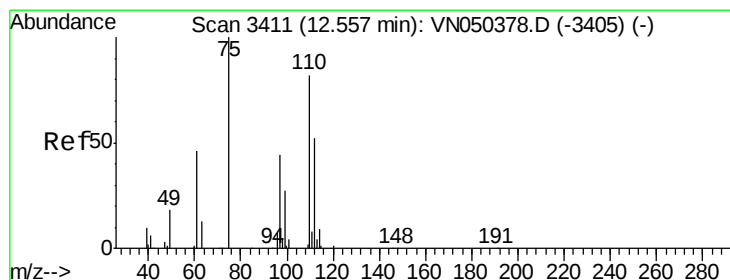
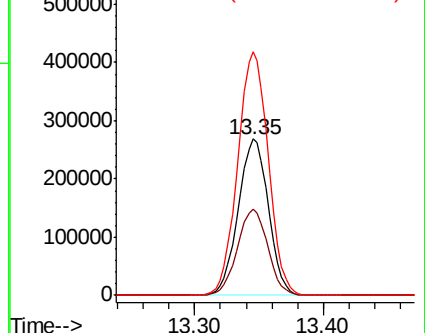
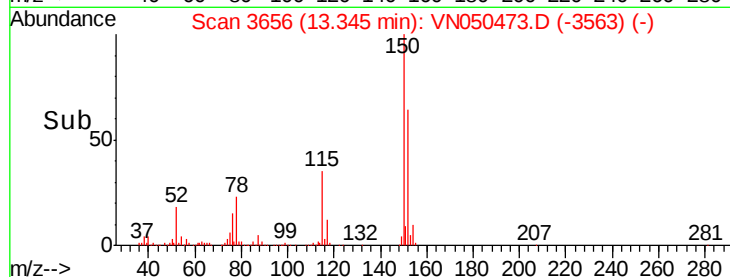
150 157.3 0.0 348.6



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



#76

1,2,3-Trichloropropane

Concen: 29.61 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050473.D

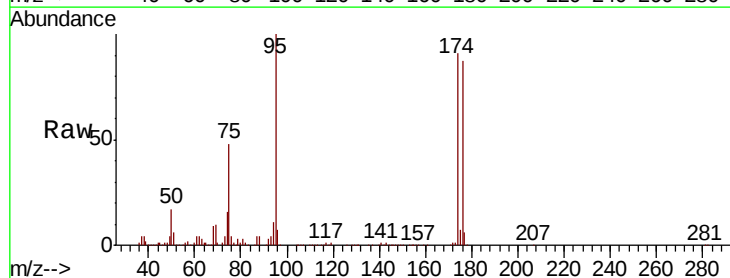
Acq: 8 Aug 2018 21:01

Tgt Ion: 75 Resp: 234781

Ion Ratio Lower Upper

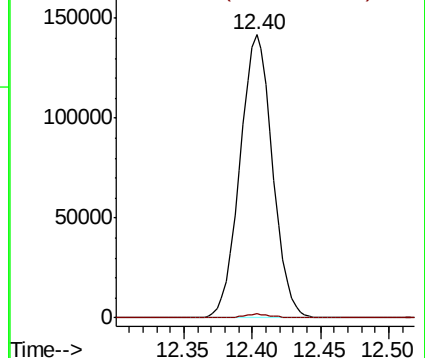
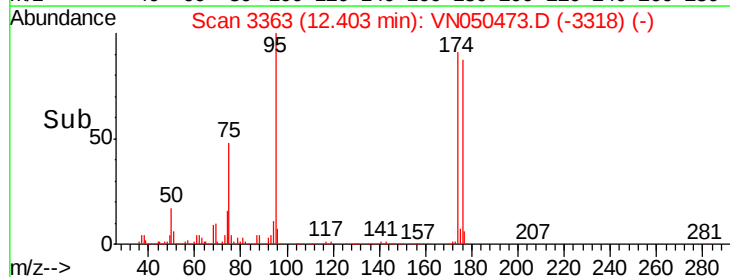
75 100

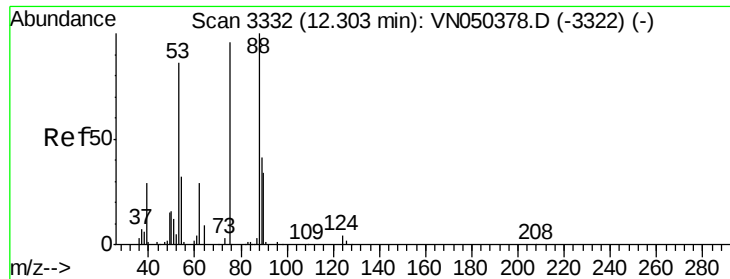
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 104.05 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050473.D

Acq: 8 Aug 2018 21:01

Instrument :

MSVOA_N

ClientSampleId :

OK-02-080718

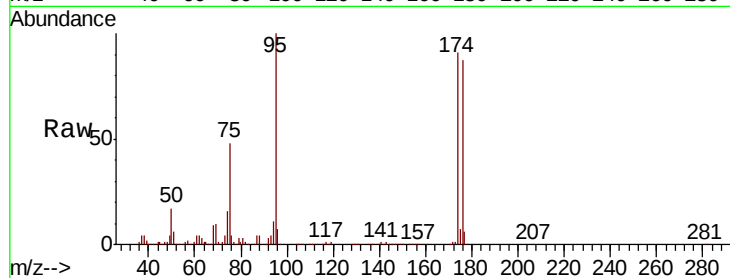
Tot Ion: 75 Resp: 234781

Ion Ratio Lower Upper

75 100

53 0.1 73.5 110.3#

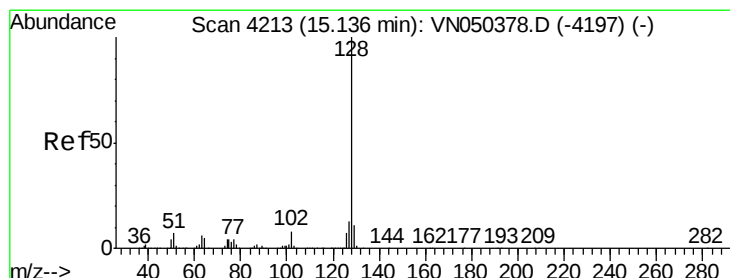
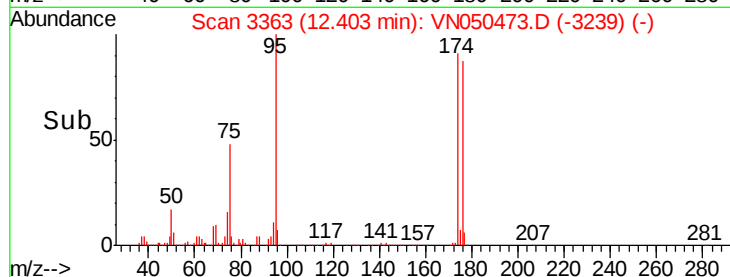
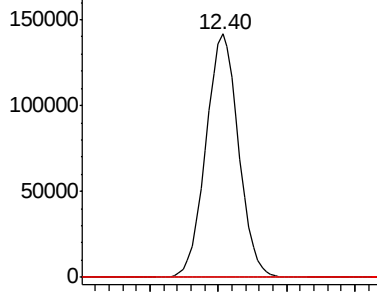
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#95

Naphthalene

Concen: 5.56 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050473.D

Acq: 8 Aug 2018 21:01

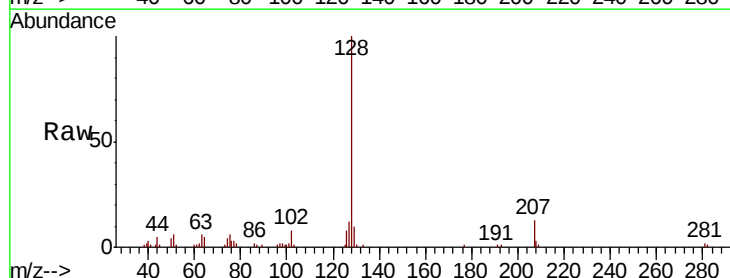
Tgt Ion:128 Resp: 44266

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

129 10.9 8.8 13.2



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

