

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092418\
 Data File : VN051455.D
 Acq On : 24 Sep 2018 12:41
 Operator : MD\SY
 Sample : J4770-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 JC-02-092118-B

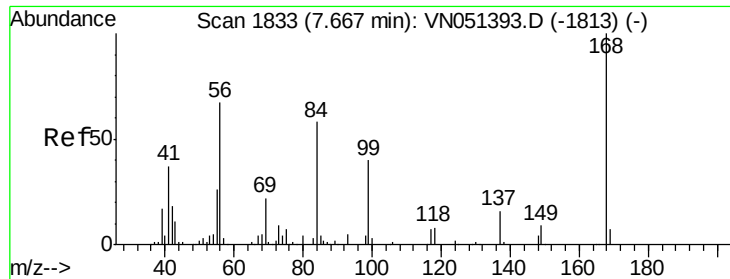
Quant Time: Sep 25 01:57:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	655099	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	987261	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	838058	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	320181	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	446730	54.44	ug/l	0.00
Spiked Amount			Recovery	=	108.88%	
35) Dibromofluoromethane	7.59	113	393230	49.81	ug/l	0.00
Spiked Amount			Recovery	=	99.62%	
50) Toluene-d8	10.09	98	1401521	47.14	ug/l	0.00
Spiked Amount			Recovery	=	94.28%	
62) 4-Bromofluorobenzene	12.40	95	382136	39.73	ug/l	0.00
Spiked Amount			Recovery	=	79.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1982	0.367	ug/l #	78
8) Diethyl Ether	3.42	74	264	Below Cal	#	19
10) Methyl Iodide	3.96	142	254	0.301	ug/l #	42
14) Allyl chloride	4.55	41	79028	6.462	ug/l #	26
16) Acetone	3.82	43	24877	Below Cal		97
18) Methyl Acetate	4.33	43	7850	1.256	ug/l	95
20) Methylene Chloride	4.55	84	2054171	252.961	ug/l	99
25) 2-Butanone	6.85	43	5561	1.980	ug/l	100
29) Tetrahydrofuran	7.23	42	1344	0.755	ug/l #	47
30) Chloroform	7.37	83	4523	0.324	ug/l #	83
31) Cyclohexane	7.66	56	11939	0.924	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44133	3.860	ug/l #	50
38) Carbon Tetrachloride	7.67	117	59205	4.951	ug/l #	16
43) Isopropyl Acetate	8.17	43	214800	18.071	ug/l	99
48) Methyl methacrylate	9.18	41	6542	1.104	ug/l #	22
51) 4-Methyl-2-Pentanone	9.99	43	1535	0.235	ug/l #	70
59) 2-Hexanone	10.76	43	13099	3.091	ug/l #	61
76) 1,2,3-Trichloropropane	12.40	75	186984	35.179	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	186984	108.173	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	6851	0.309	ug/l	93
93) 1,2,4-Trichlorobenzene	14.91	180	1247	6.159	ug/l #	78
95) Naphthalene	15.13	128	123499	16.749	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	1387	0.252	ug/l #	85

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051455.D

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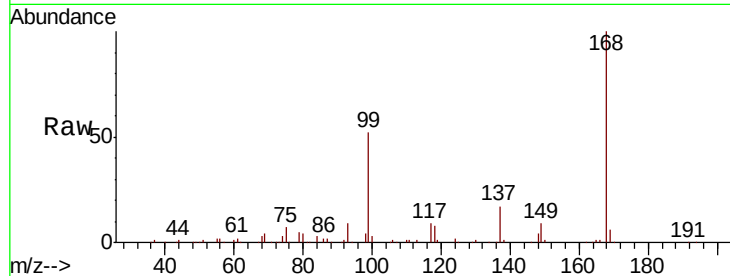
JC-02-092118-B

Tot Ion:168 Resp: 655099

Ion Ratio Lower Upper

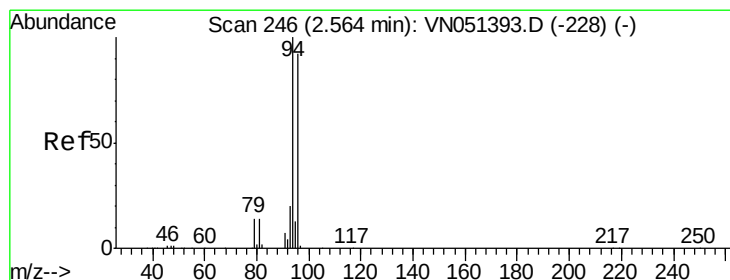
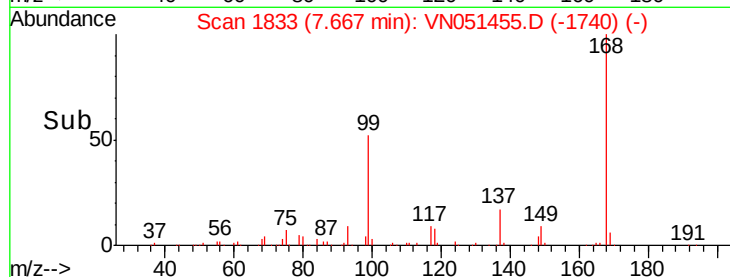
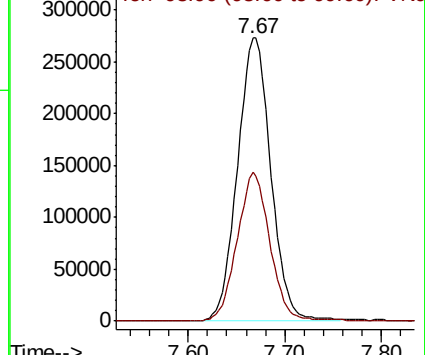
168 100

99 52.4 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D

Ion 98.90 (98.60 to 99.60): VN051393.D



#5

Bromomethane

Concen: 0.367 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051455.D

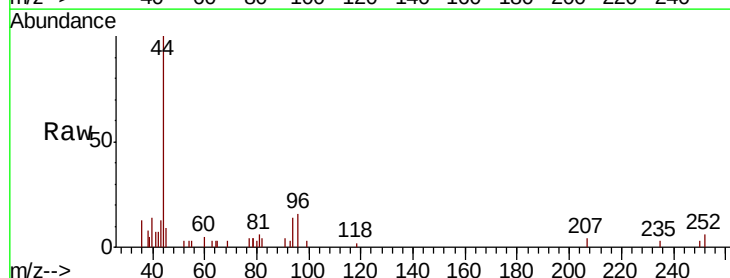
Acq: 24 Sep 2018 12:41

Tgt Ion: 94 Resp: 1982

Ion Ratio Lower Upper

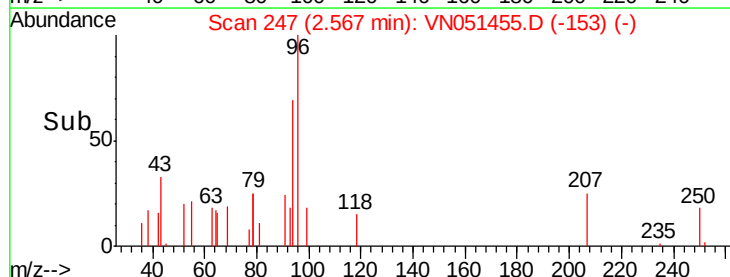
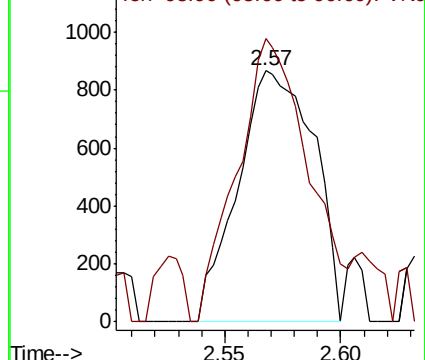
94 100

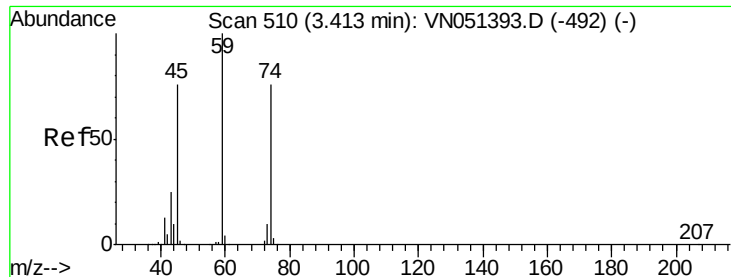
96 112.7 73.6 110.4#



Abundance Ion 93.90 (93.60 to 94.60): VN051393.D

Ion 95.90 (95.60 to 96.60): VN051393.D





#8

Diethyl Ether

Concen: Below Cal

RT: 3.42 min Scan# 511

Delta R.T. 0.00 min

Lab File: VN051455.D

Acq: 24 Sep 2018 12:41

Instrument :

MSVOA_N

ClientSampleId :

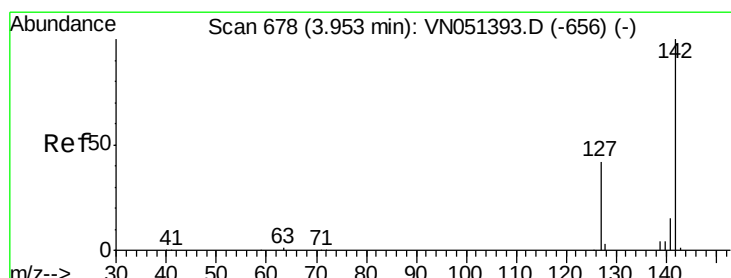
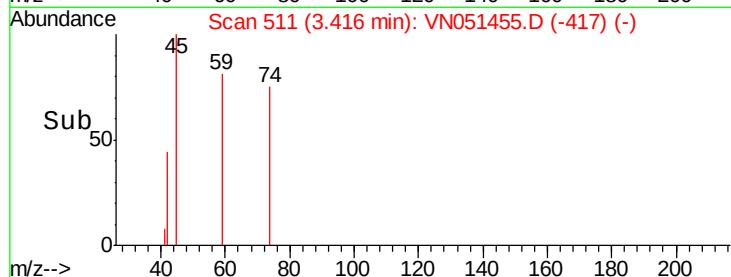
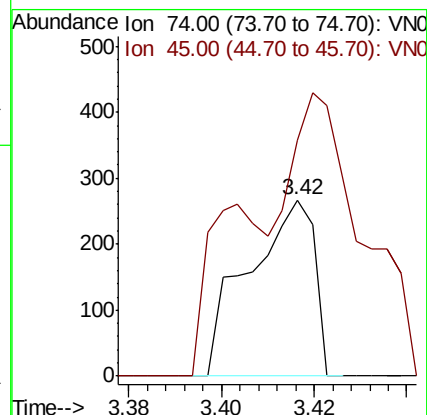
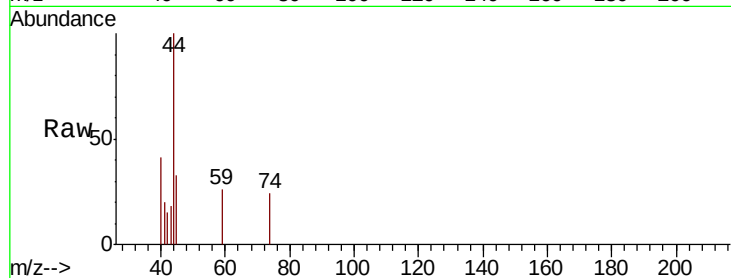
JC-02-092118-B

Tot Ion: 74 Resp: 264

Ion Ratio Lower Upper

74 100

45 182.2 50.2 150.7#



#10

Methyl Iodide

Concen: 0.301 ug/l

RT: 3.96 min Scan# 679

Delta R.T. 0.00 min

Lab File: VN051455.D

Acq: 24 Sep 2018 12:41

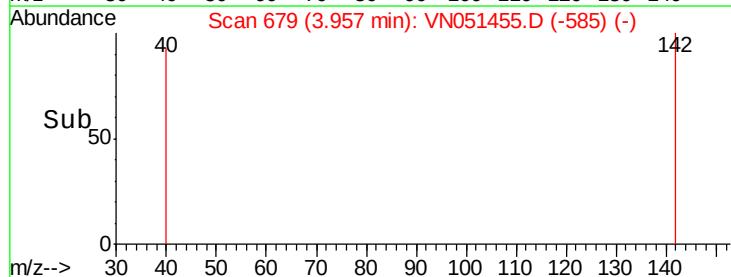
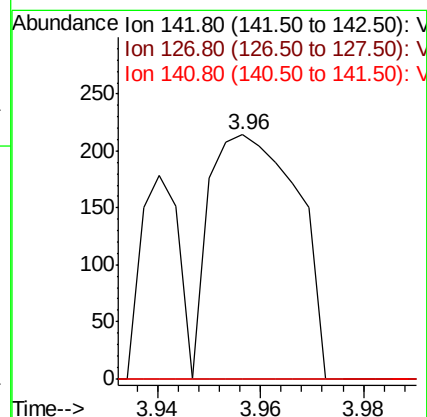
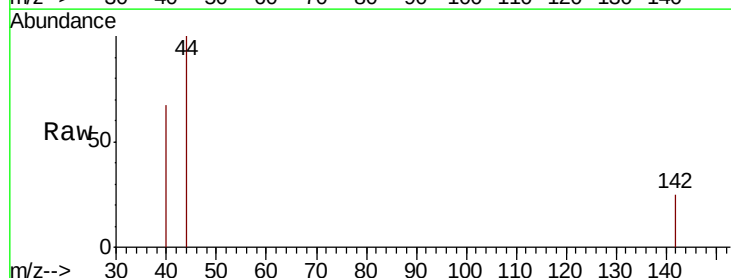
Tgt Ion: 142 Resp: 254

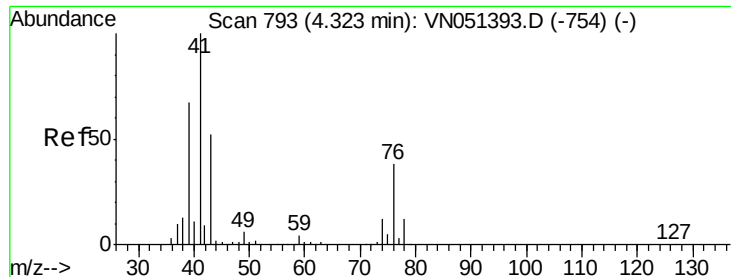
Ion Ratio Lower Upper

142 100

127 0.0 33.2 49.8#

141 0.0 11.5 17.3#

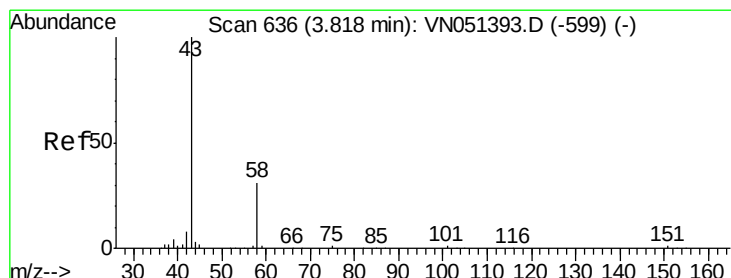
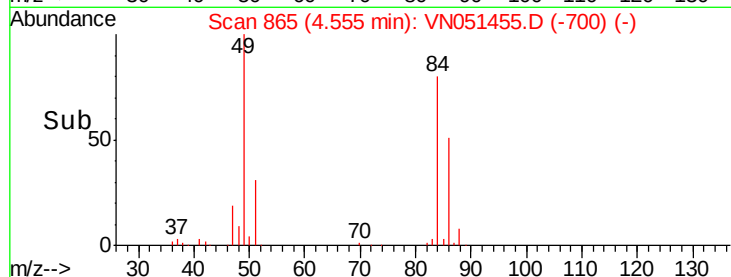
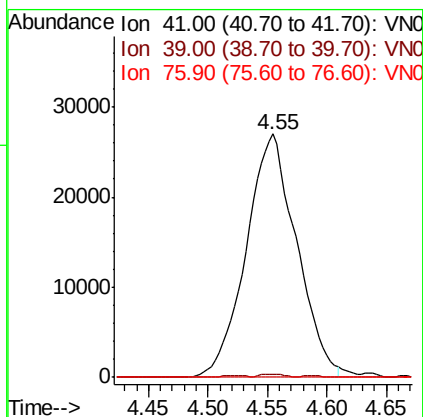
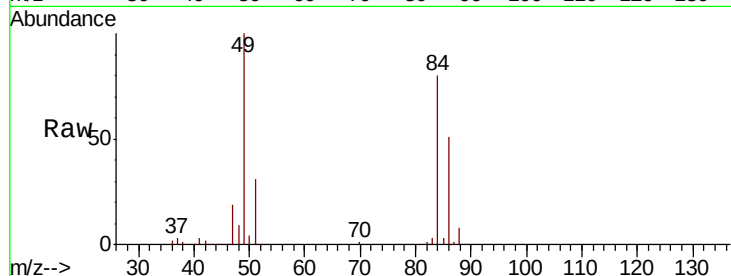




#14
Allvl chloride
Concen: 6.462 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.23 min
Lab File: VN051455.D
Acq: 24 Sep 2018 12:41

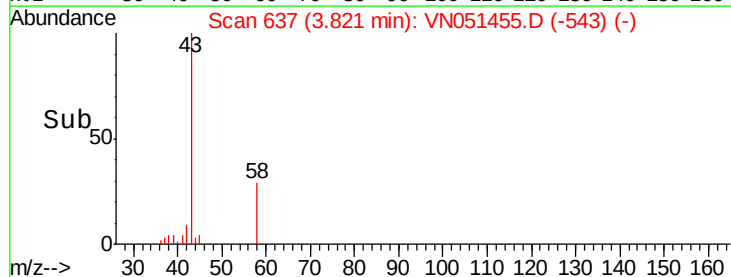
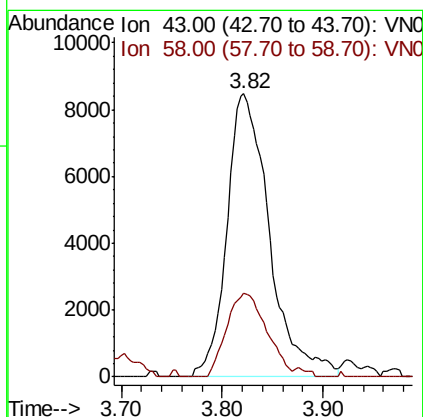
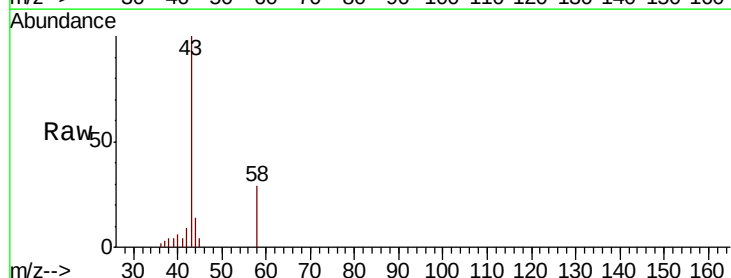
Instrument :
MSVOA_N
ClientSampled :
JC-02-092118-B

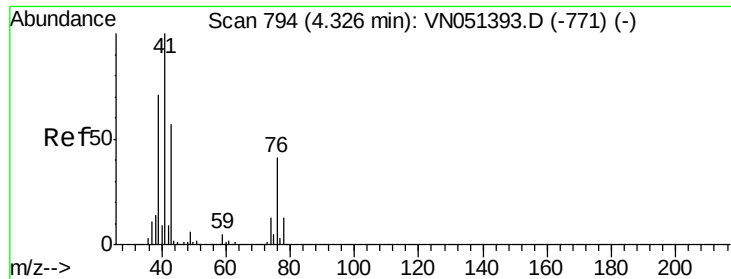
Tot Ion: 41 Resp: 79028
Ion Ratio Lower Upper
41 100
39 0.6 51.4 77.2#
76 0.0 28.1 42.1#



#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN051455.D
Acq: 24 Sep 2018 12:41

Tgt Ion: 43 Resp: 24877
Ion Ratio Lower Upper
43 100
58 29.4 25.0 37.4

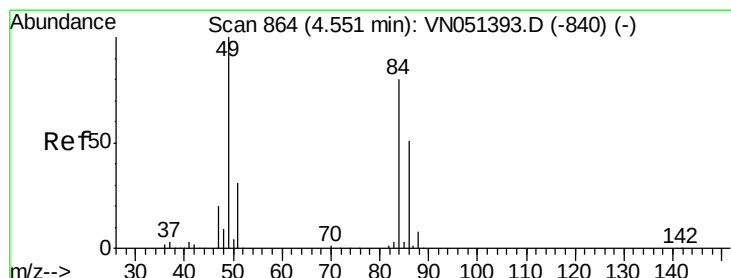
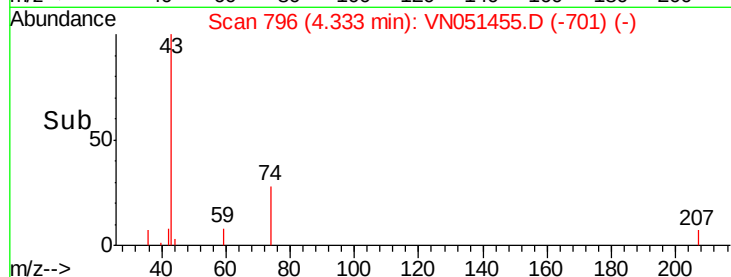
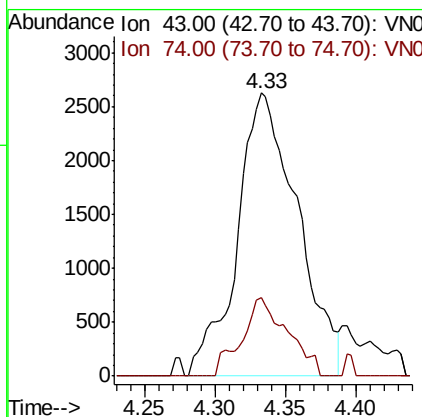
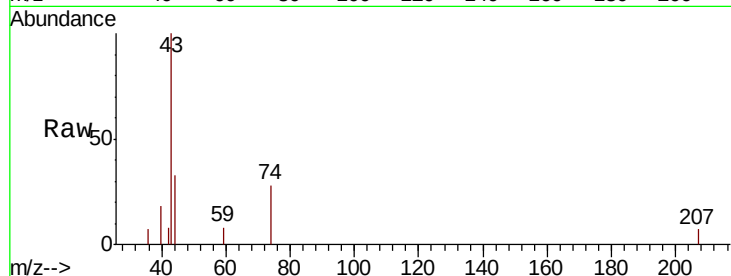




#18
Methyl Acetate
Concen: 1.256 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051455.D
Acq: 24 Sep 2018 12:41

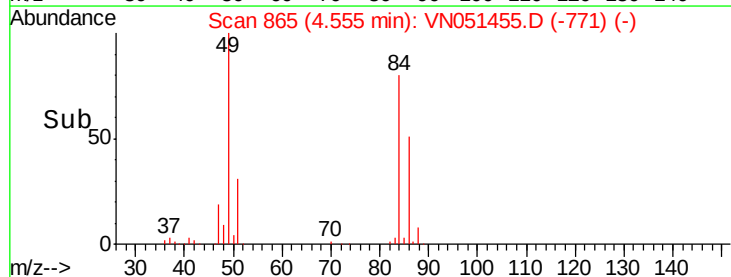
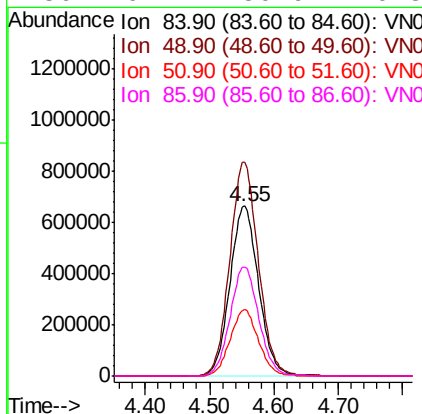
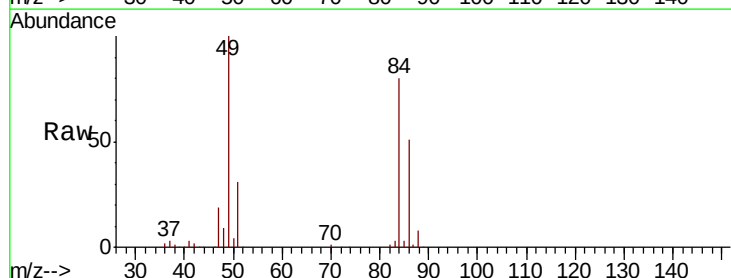
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MSVOA_N
ClientSampleId :
JC-02-092118-B

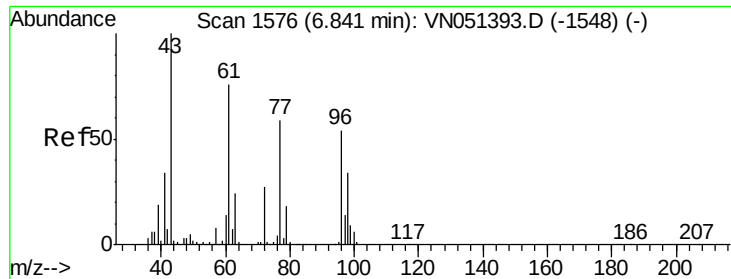
Tot Ion: 43 Resp: 7850
Ion Ratio Lower Upper
43 100
74 20.9 18.8 28.2



#20
Methylene Chloride
Concen: 252.961 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051455.D
Acq: 24 Sep 2018 12:41

Tgt Ion: 84 Resp: 2054171
Ion Ratio Lower Upper
84 100
49 125.7 99.9 149.9
51 38.9 31.4 47.2
86 64.2 50.9 76.3

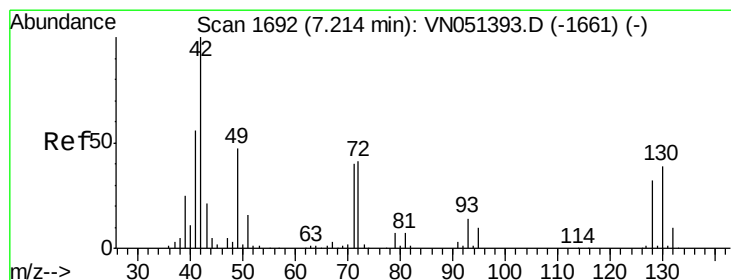
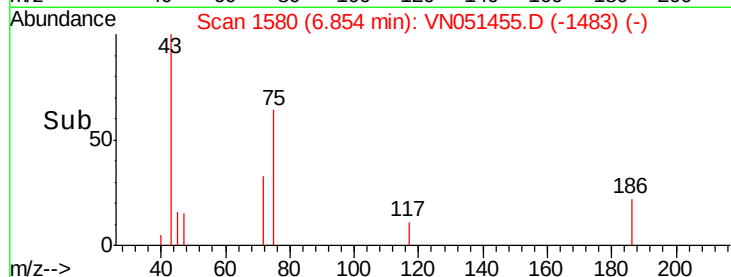
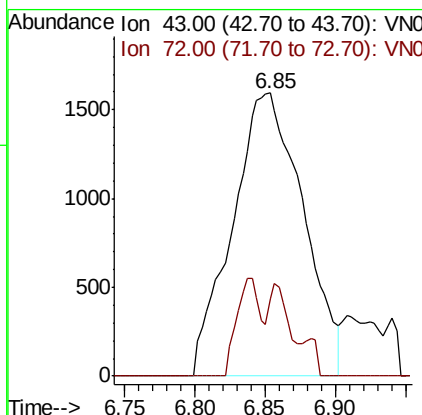
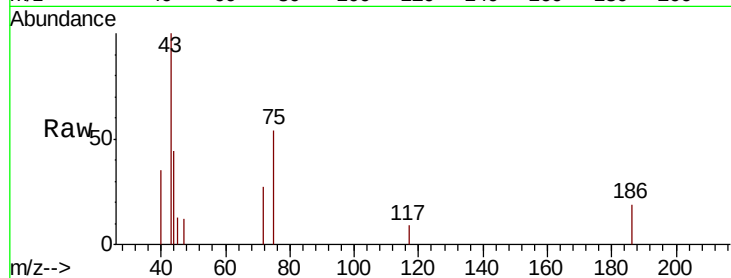




#25
2-Butanone
Concen: 1.980 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN051455.D
Acq: 24 Sep 2018 12:41

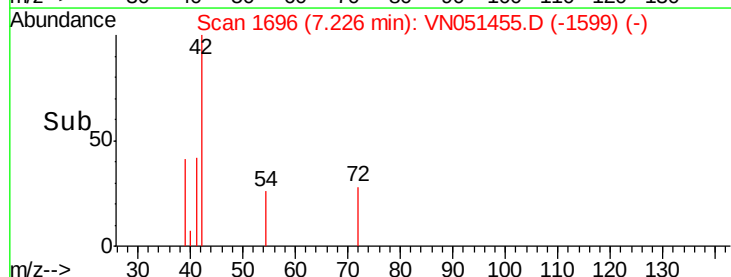
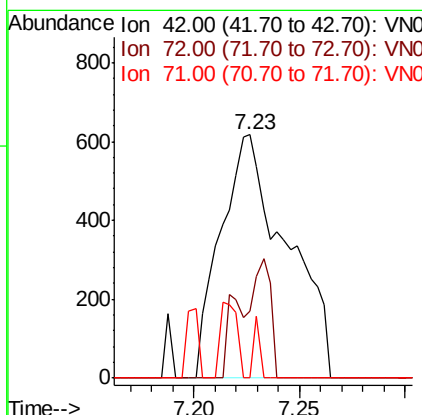
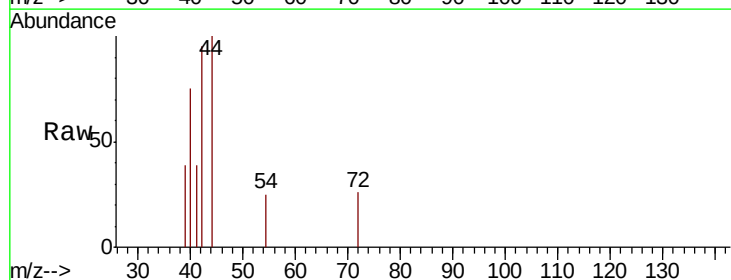
Instrument :
MSVOA_N
ClientSampleId :
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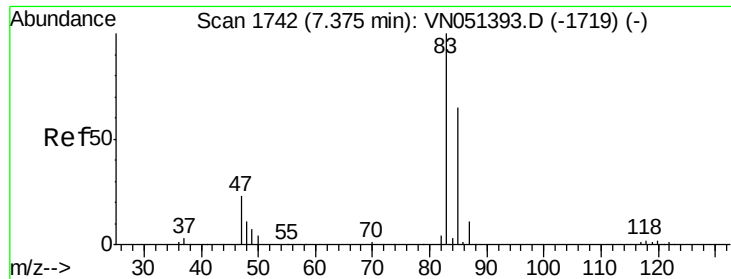
Tot Ion: 43 Resp: 5561
Ion Ratio Lower Upper
43 100
72 27.3 21.8 32.6



#29
Tetrahydrofuran
Concen: 0.755 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN051455.D
Acq: 24 Sep 2018 12:41

Tgt Ion: 42 Resp: 1344
Ion Ratio Lower Upper
42 100
72 13.9 34.3 51.5#
71 2.2 32.2 48.4#

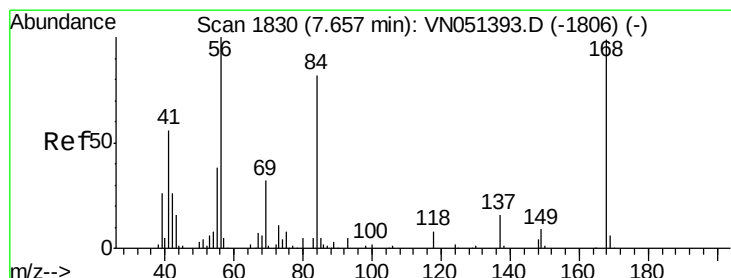
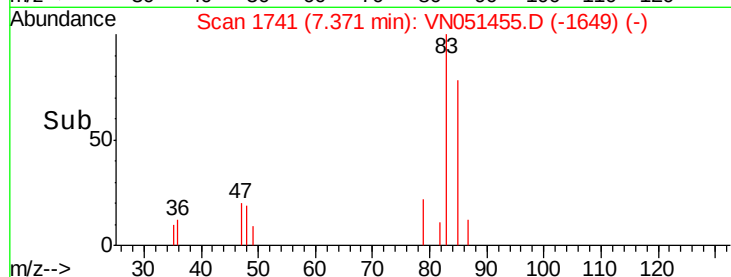
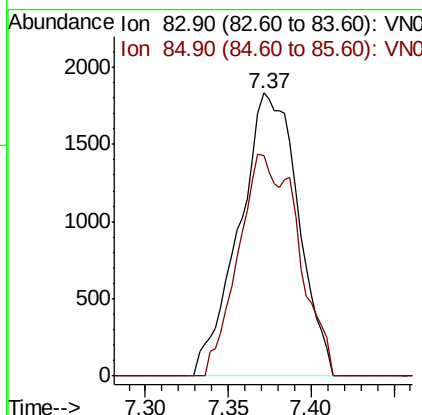
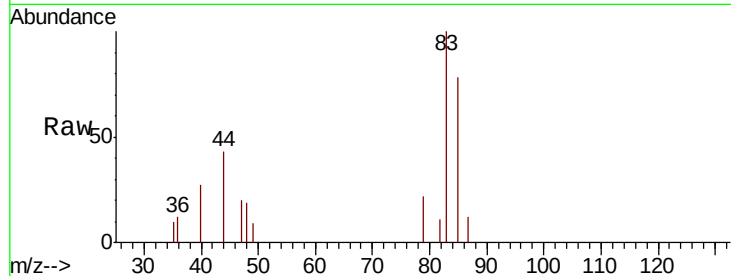




#30
Chloroform
Concen: 0.324 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN051455.D
Acq: 24 Sep 2018 12:41

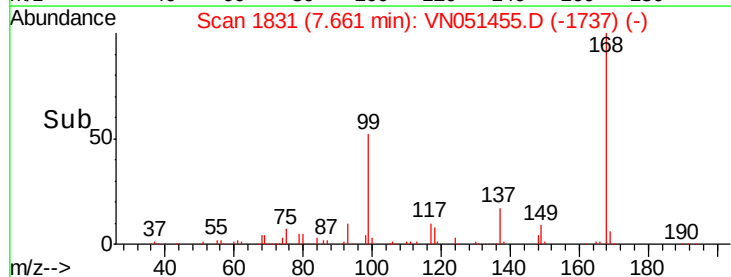
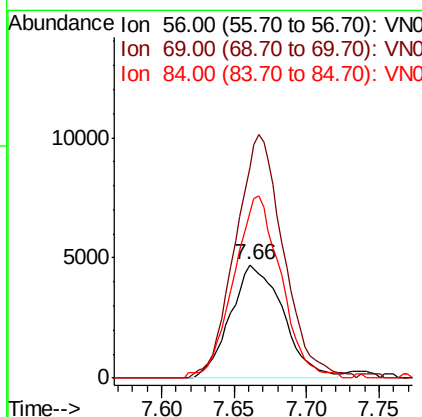
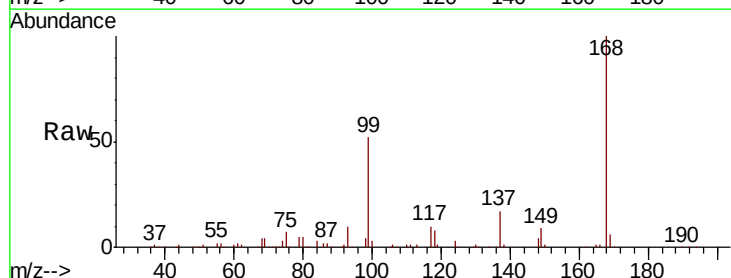
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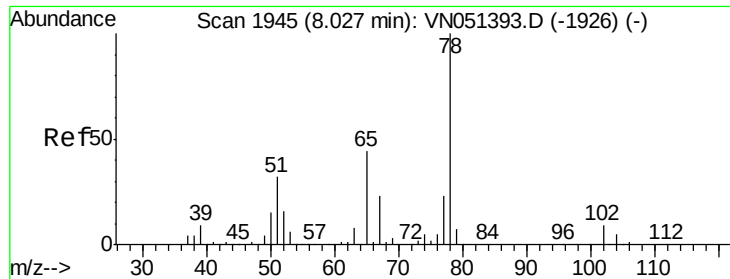
Tot Ion: 83 Resp: 4523
Ion Ratio Lower Upper
83 100
85 78.1 51.8 77.6#



#31
Cyclohexane
Concen: 0.924 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.00 min
Lab File: VN051455.D
Acq: 24 Sep 2018 12:41

Tgt Ion: 56 Resp: 11939
Ion Ratio Lower Upper
56 100
69 185.4 25.8 38.6#
84 142.7 66.0 99.0#

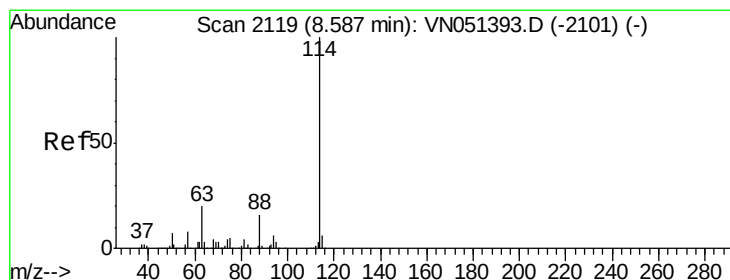
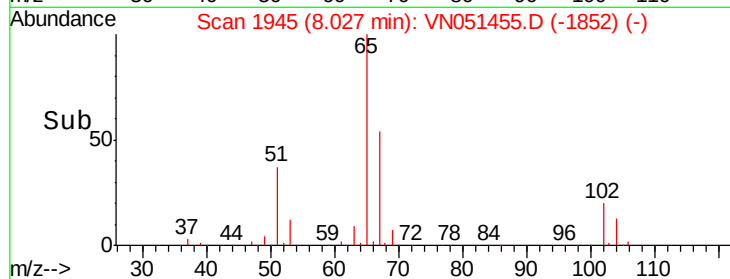
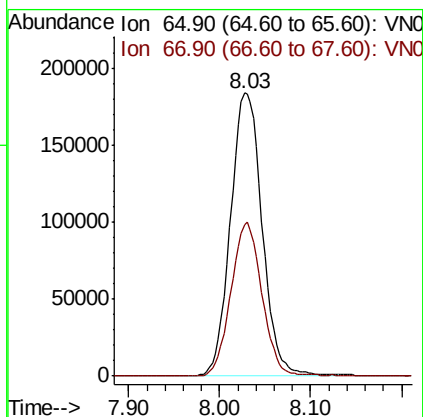
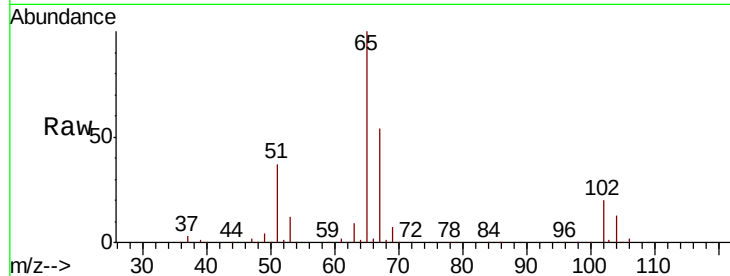




#33
 1,2-Dichloroethane-d4
 Concen: 54.437 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051455.D
 Acq: 24 Sep 2018 12:41

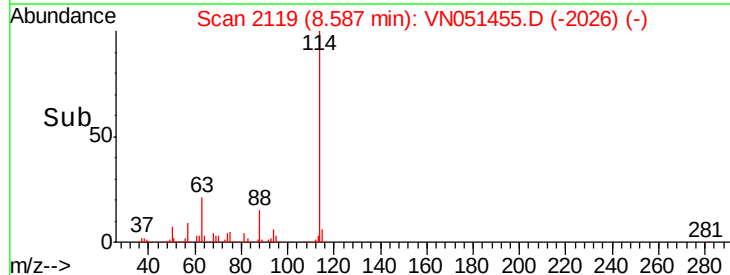
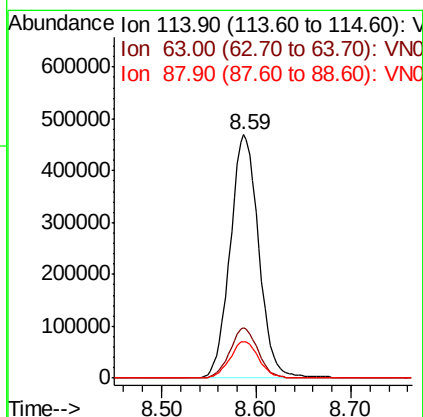
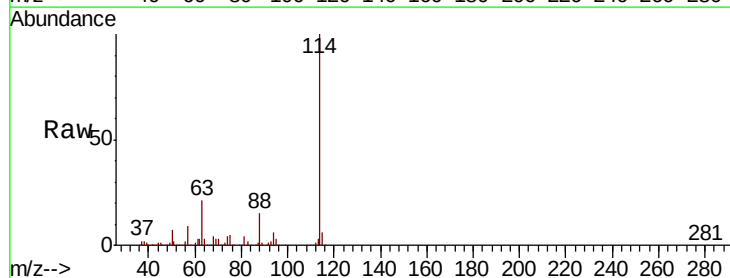
Instrument :
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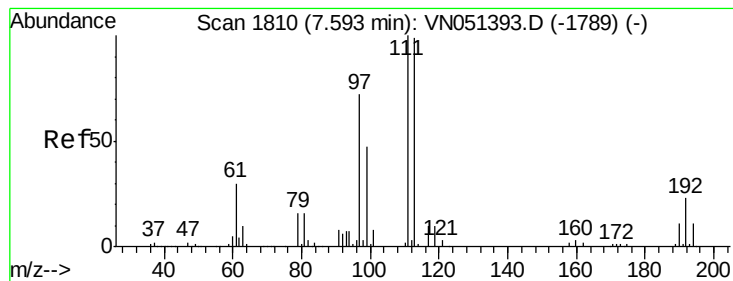
Tot Ion: 65 Resp: 446730
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051455.D
 Acq: 24 Sep 2018 12:41

Tgt Ion: 114 Resp: 987261
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 40.2
 88 15.0 0.0 31.4





#35

Dibromofluoromethane

Concen: 49.809 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN051455.D

Acq: 24 Sep 2018 12:41

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-B

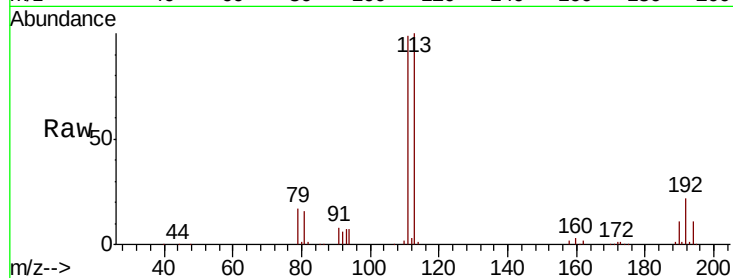
Tot Ion:113 Resp: 393230

Ion Ratio Lower Upper

113 100

111 100.4 82.6 123.8

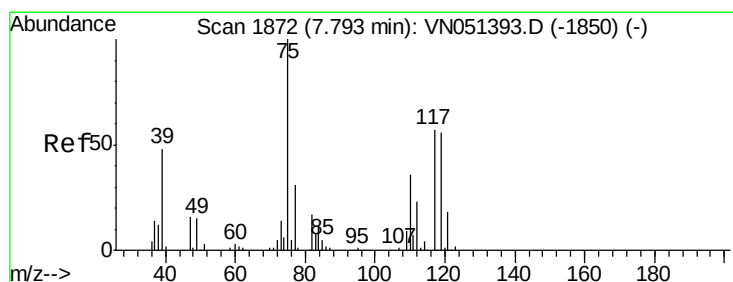
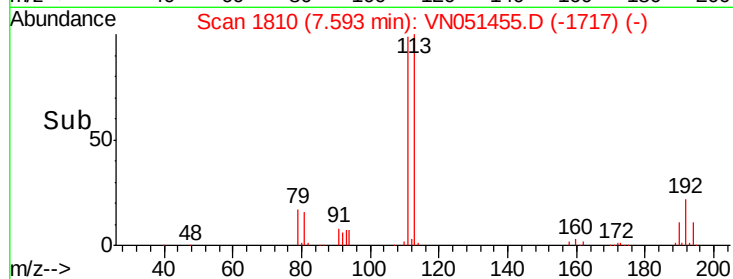
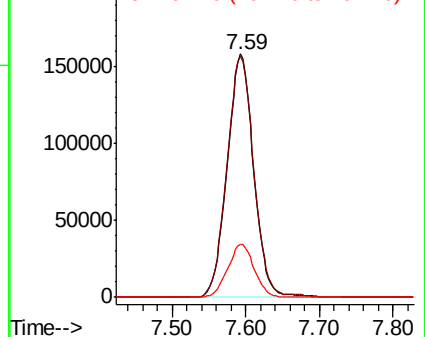
192 22.0 18.0 27.0



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: 3.860 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.12 min

Lab File: VN051455.D

Acq: 24 Sep 2018 12:41

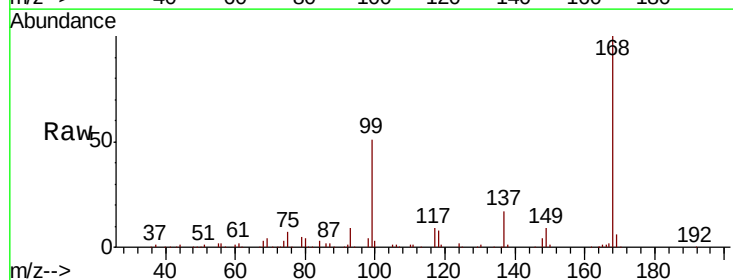
Tgt Ion: 75 Resp: 44133

Ion Ratio Lower Upper

75 100

110 10.6 18.1 54.3#

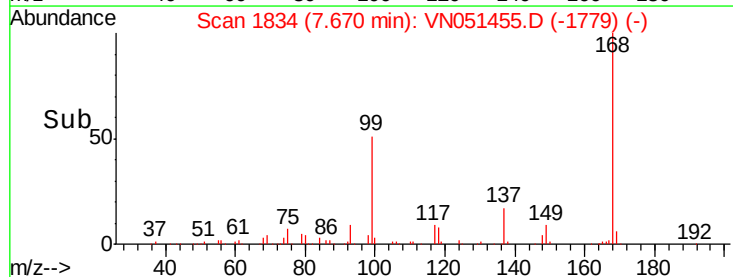
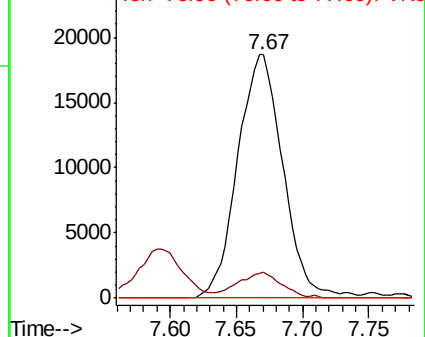
77 0.0 25.6 38.4#

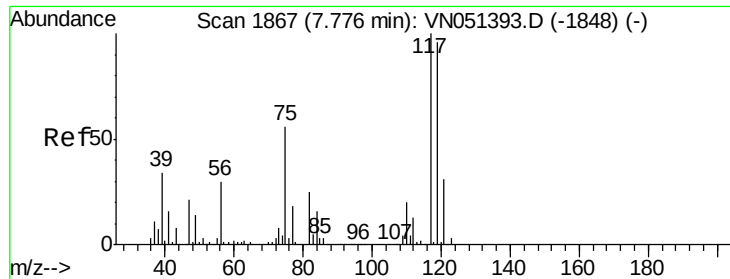


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

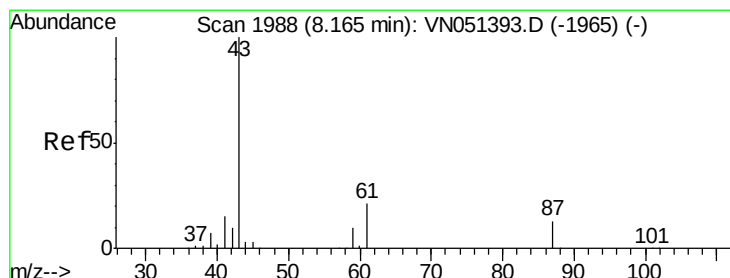
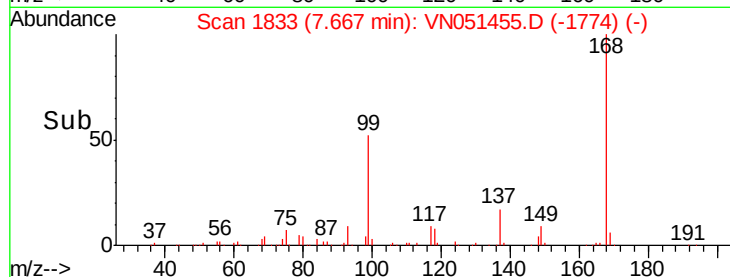
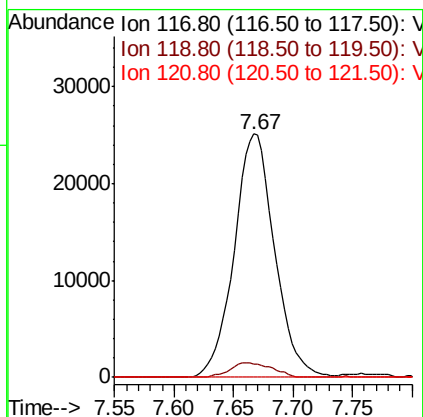
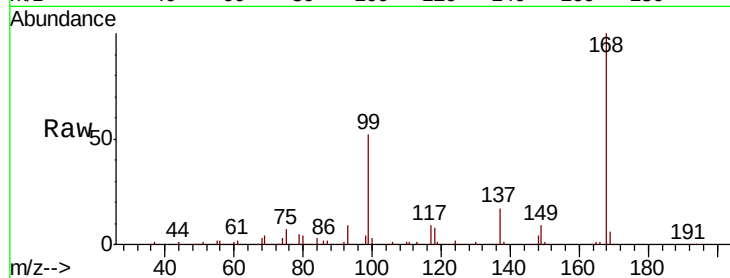




#38
 Carbon Tetrachloride
 Concen: 4.951 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051455.D
 Acq: 24 Sep 2018 12:41

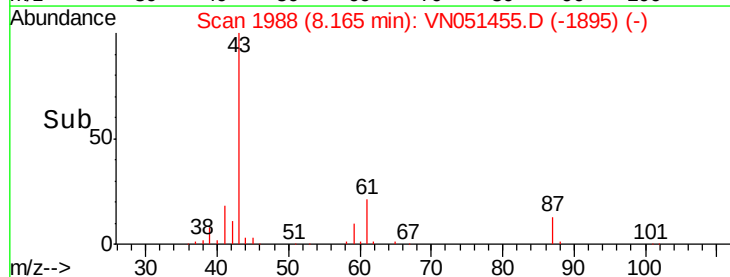
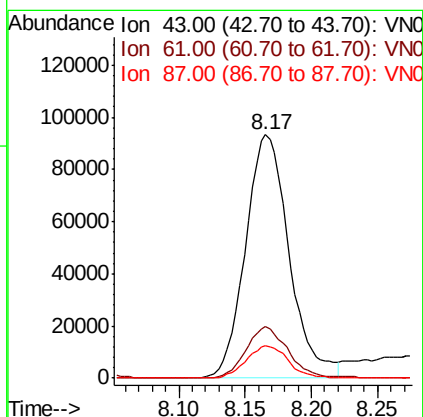
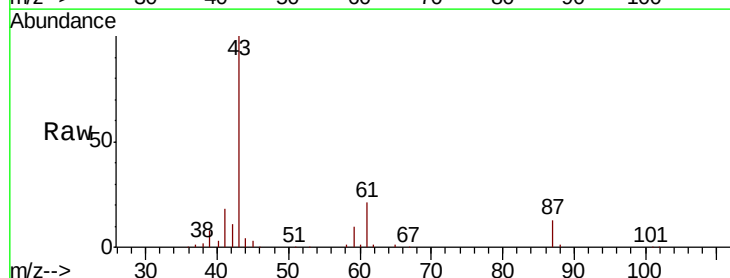
Instrument :
 MSVOA_N
 ClientSampleId :
 JC-02-092118-B

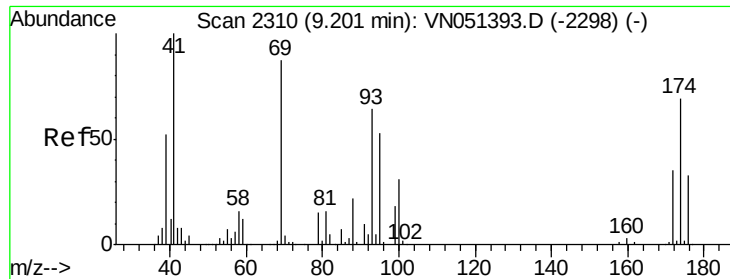
Tot Ion:117 Resp: 59205
 Ion Ratio Lower Upper
 117 100
 119 5.6 76.9 115.3#
 121 0.0 24.6 37.0#



#43
 Isopropyl Acetate
 Concen: 18.071 ug/l
 RT: 8.17 min Scan# 1988
 Delta R.T. -0.00 min
 Lab File: VN051455.D
 Acq: 24 Sep 2018 12:41

Tgt Ion: 43 Resp: 214800
 Ion Ratio Lower Upper
 43 100
 61 20.6 16.8 25.2
 87 12.8 10.7 16.1

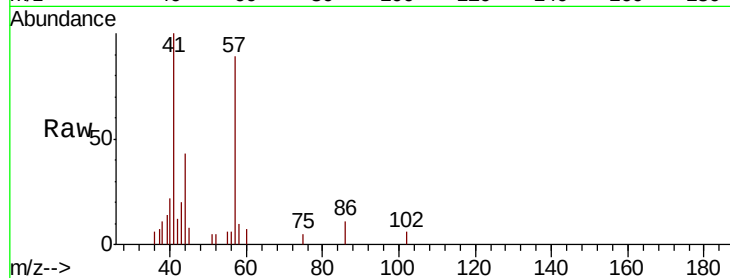




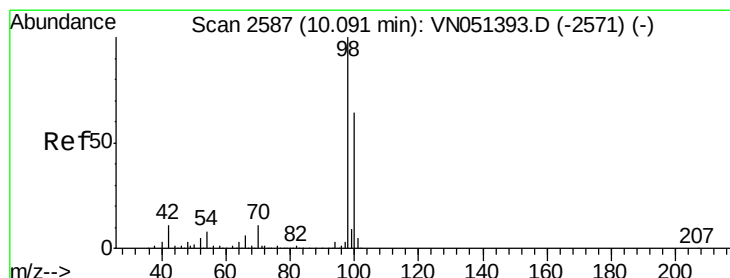
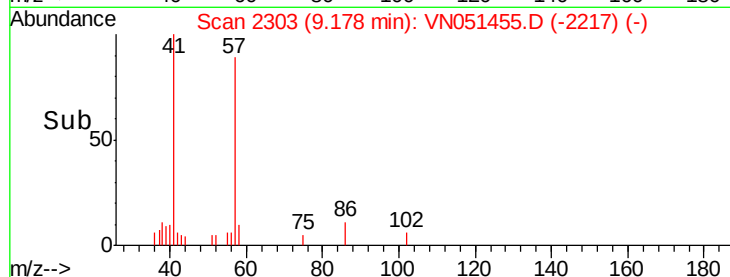
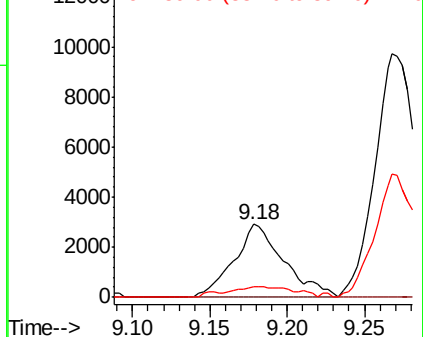
#48
Methvl methacrylate
Concen: 1.104 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN051455.D
Acq: 24 Sep 2018 12:41

Instrument :
MSVOA_N
ClientSampleId :
JC-02-092118-B

Tot Ion: 41 Resp: 6542
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 16.8 43.8 65.8#

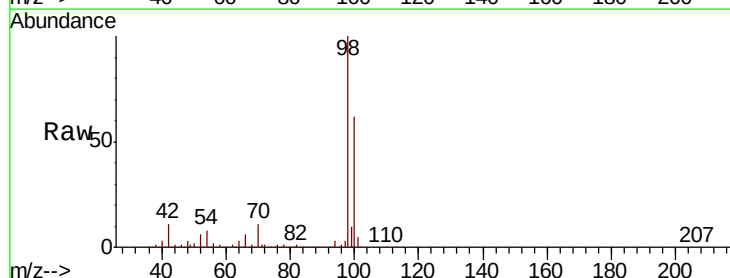


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

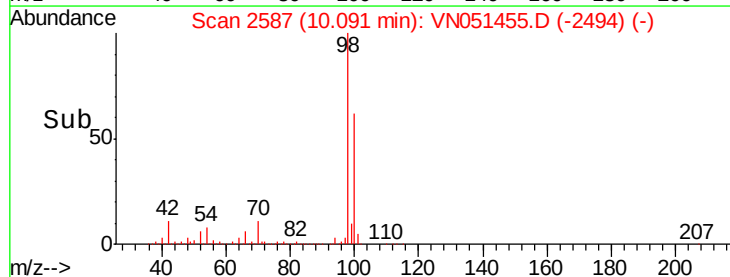
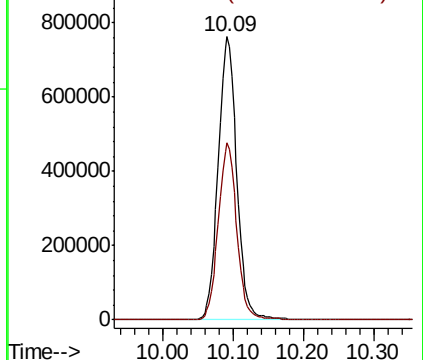


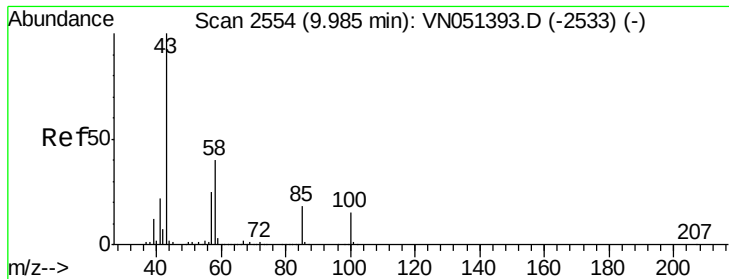
#50
Toluene-d8
Concen: 47.144 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051455.D
Acq: 24 Sep 2018 12:41

Tgt Ion: 98 Resp: 1401521
Ion Ratio Lower Upper
98 100
100 62.3 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.235 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051455.D

Acq: 24 Sep 2018 12:41

Instrument :

MSVOA_N

ClientSampleId :

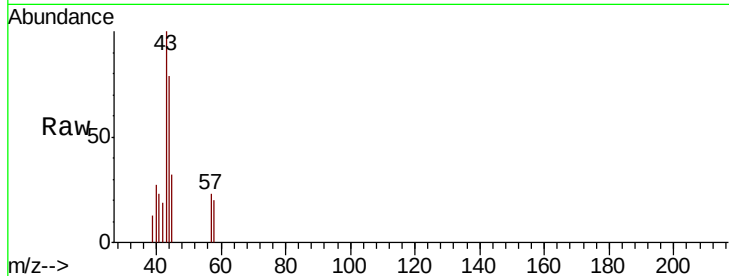
JC-02-092118-B

Tot Ion: 43 Resp: 1535

Ion Ratio Lower Upper

43 100

58 21.1 31.5 47.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

9.99

1500

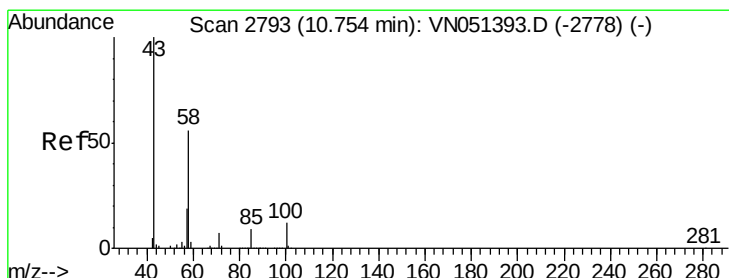
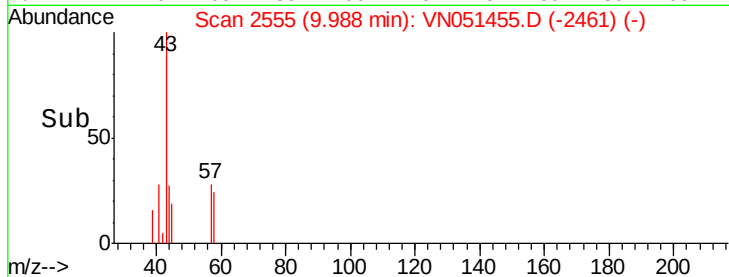
1000

500

0

9.95 10.00

Time-->



#59

2-Hexanone

Concen: 3.091 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051455.D

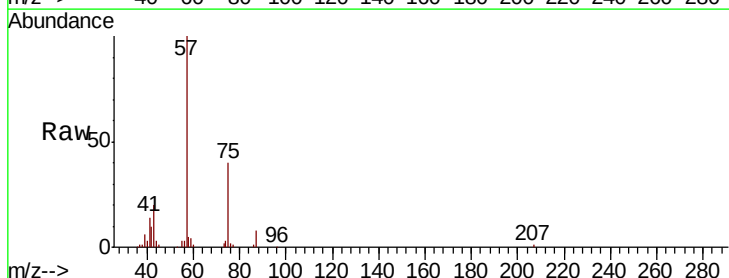
Acq: 24 Sep 2018 12:41

Tgt Ion: 43 Resp: 13099

Ion Ratio Lower Upper

43 100

58 26.9 27.7 83.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.76

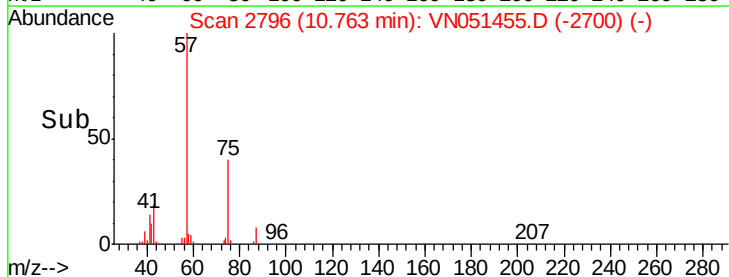
10000

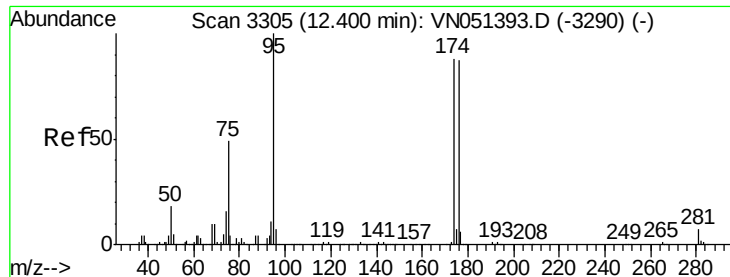
5000

0

10.70 10.75 10.80

Time-->





#62

4-Bromofluorobenzene

Concen: 39.735 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051455.D

Acq: 24 Sep 2018 12:41

Instrument :

MSVOA_N

ClientSampleId :

JC-02-092118-B

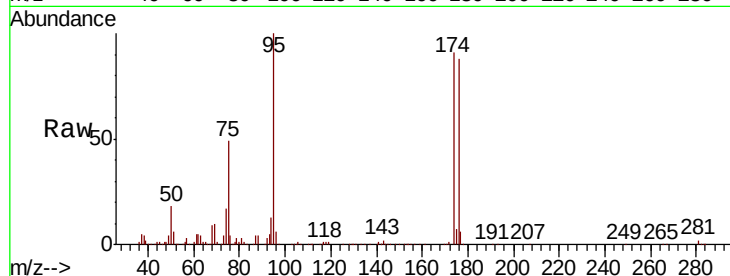
Tot Ion: 95 Resp: 382136

Ion Ratio Lower Upper

95 100

174 91.7 0.0 181.6

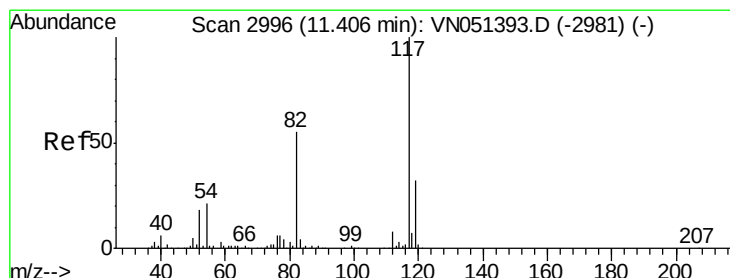
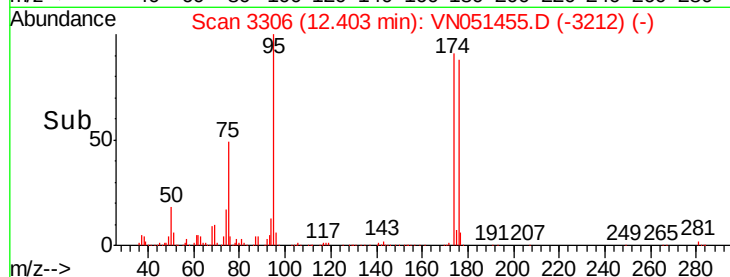
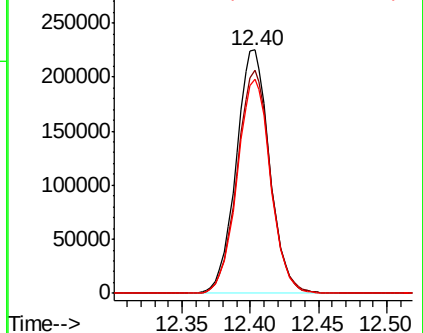
176 87.9 0.0 176.4



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN051455.D

Acq: 24 Sep 2018 12:41

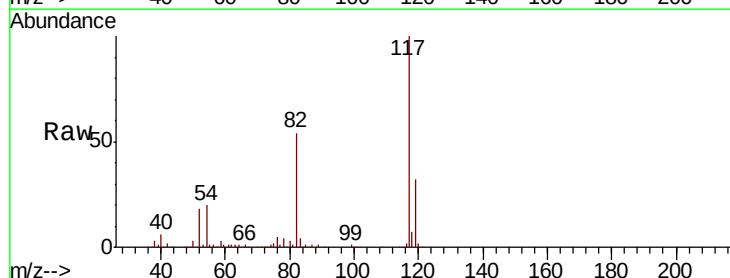
Tgt Ion: 117 Resp: 838058

Ion Ratio Lower Upper

117 100

82 54.3 44.2 66.2

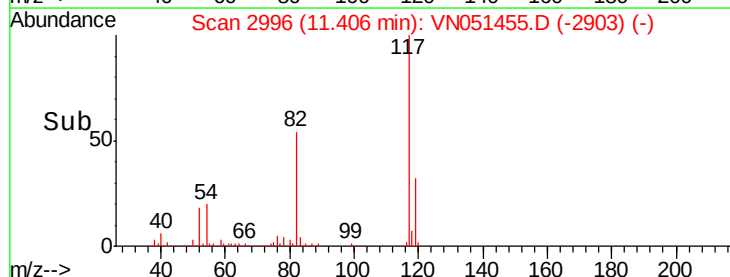
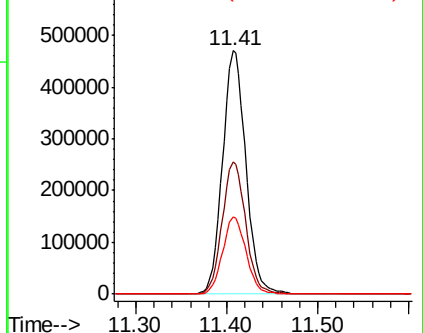
119 31.6 25.9 38.9

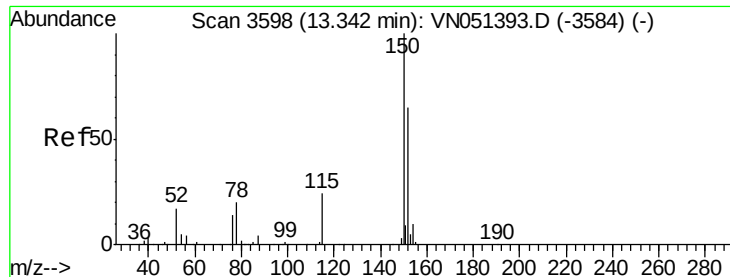


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0



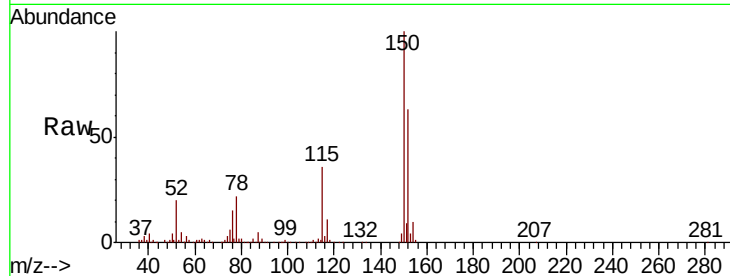


#72

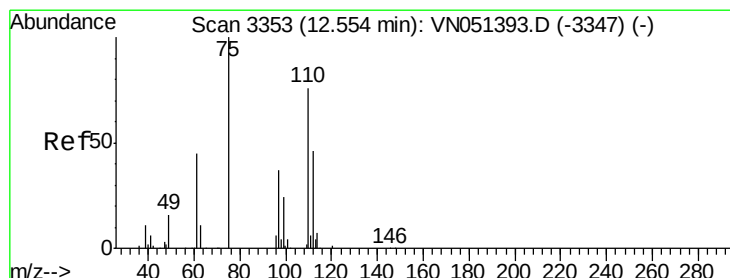
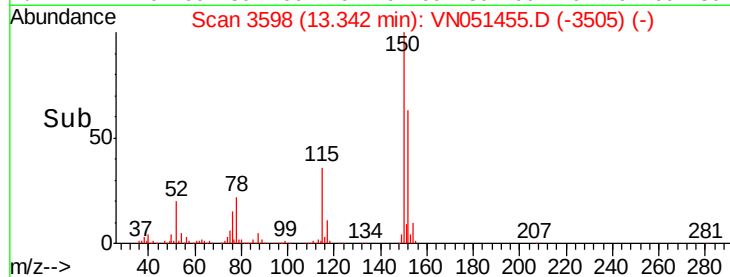
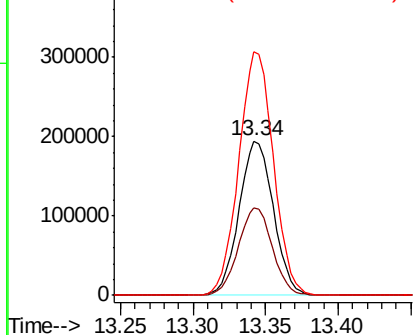
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN051455.D
Acq: 24 Sep 2018 12:41

Instrument :
MSVOA_N
ClientSampleId :
JC-02-092118-B

Tot Ion:152 Resp: 320181
Ion Ratio Lower Upper
152 100
115 56.1 28.3 84.9
150 159.0 0.0 353.6



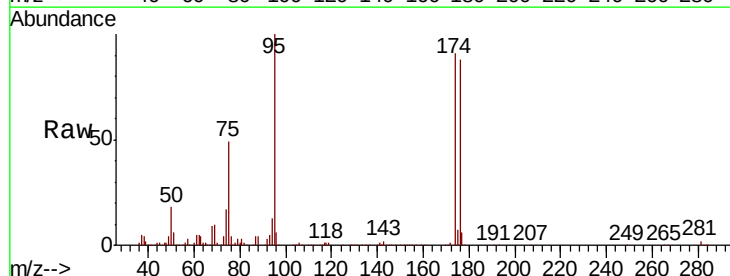
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



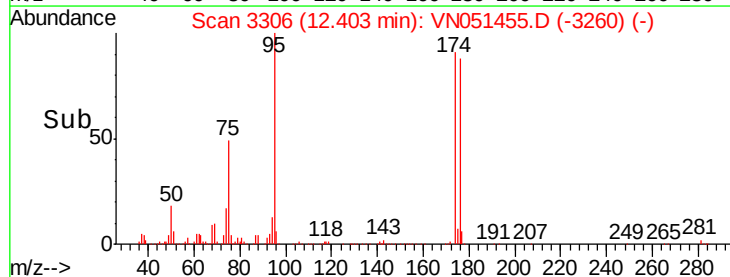
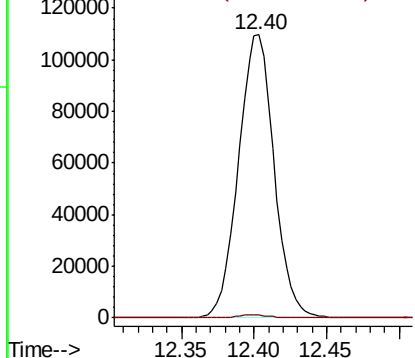
#76

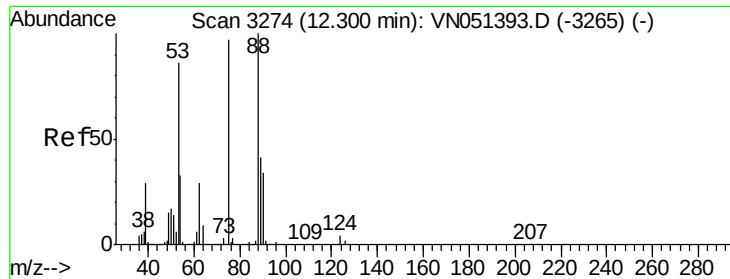
1,2,3-Trichloropropane
Concen: 35.179 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN051455.D
Acq: 24 Sep 2018 12:41

Tgt Ion: 75 Resp: 186984
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V

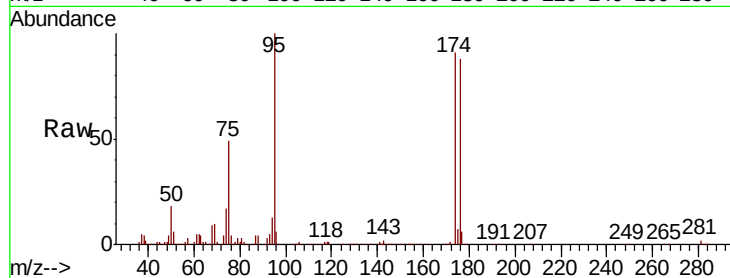




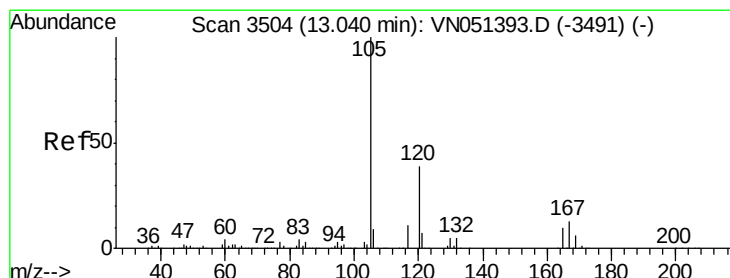
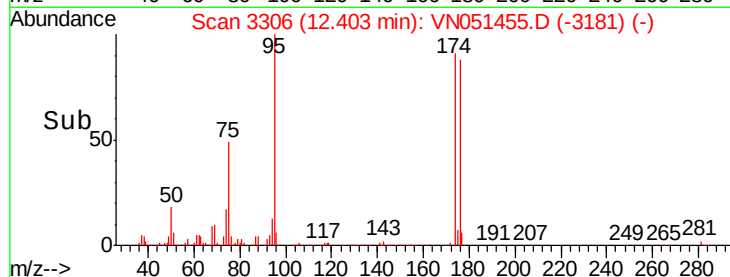
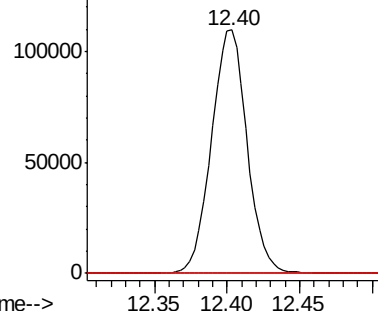
#81
trans-1,4-Dichloro-2-butene
Concen: 108.173 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051455.D
Acq: 24 Sep 2018 12:41

Instrument :
MSVOA_N
ClientSampleId :
JC-02-092118-B

Tot Ion: 75 Resp: 186984
Ion Ratio Lower Upper
75 100
53 0.2 73.9 110.9#
89 0.0 36.7 55.1#

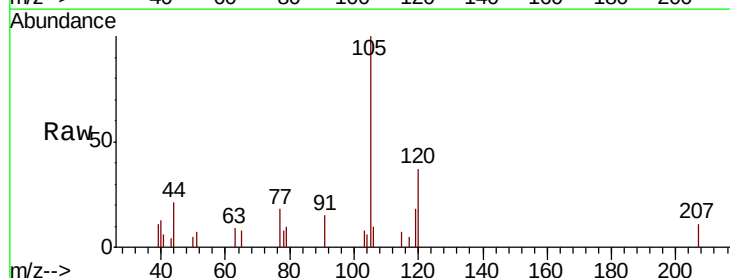


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

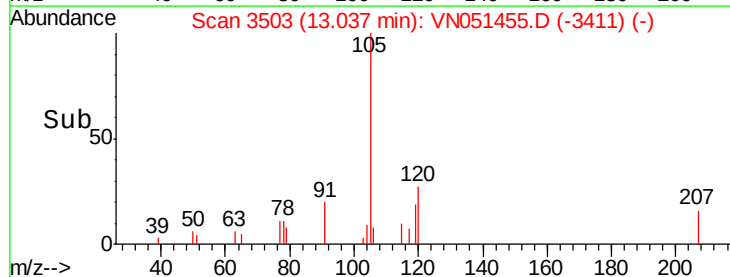
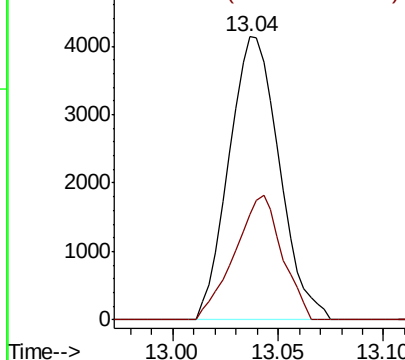


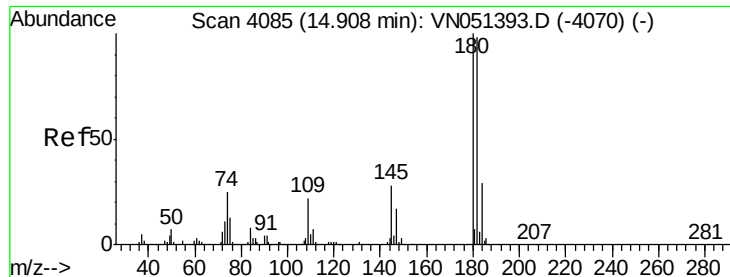
#84
1,2,4-Trimethylbenzene
Concen: 0.309 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN051455.D
Acq: 24 Sep 2018 12:41

Tgt Ion:105 Resp: 6851
Ion Ratio Lower Upper
105 100
120 41.5 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

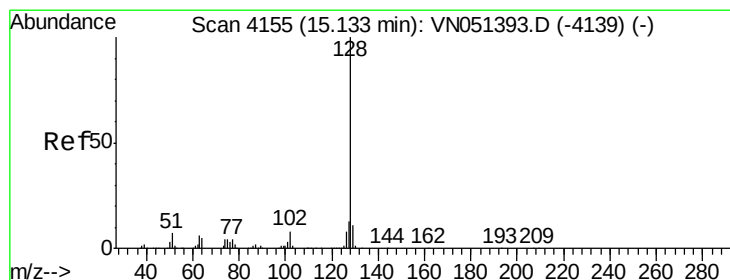
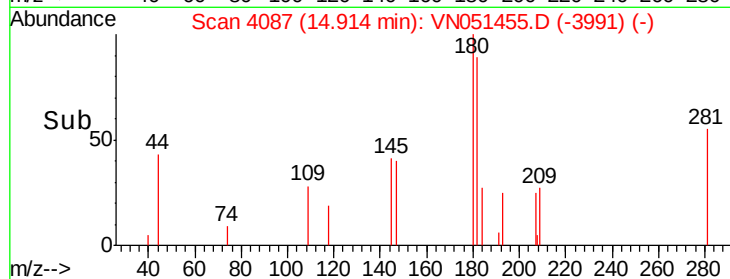
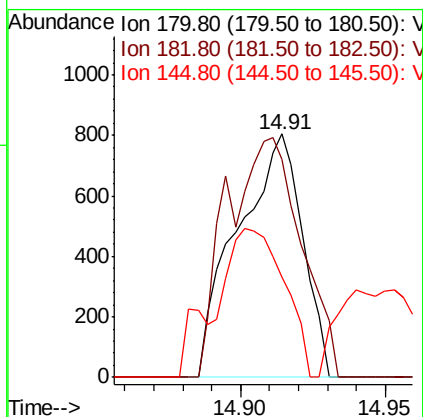
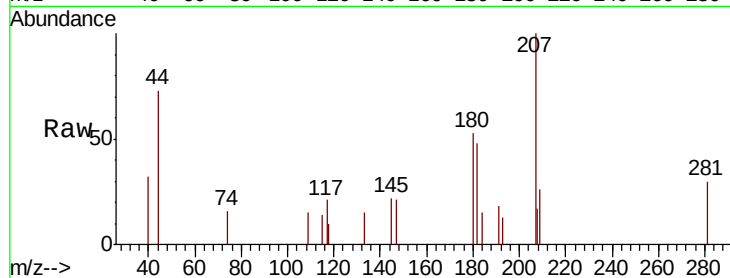




#93
 1,2,4-Trichlorobenzene
 Concen: 6.159 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN051455.D
 Acq: 24 Sep 2018 12:41

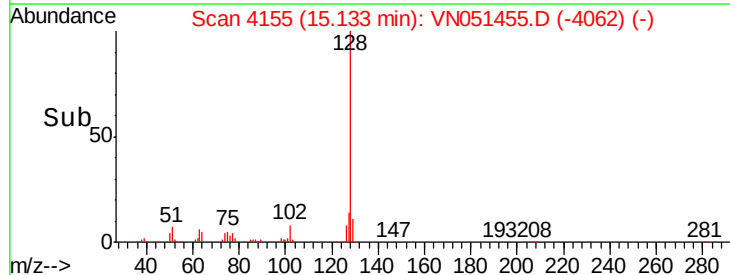
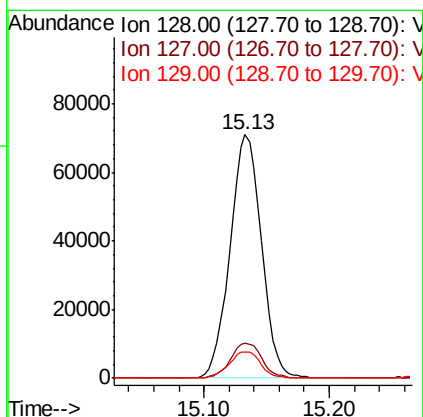
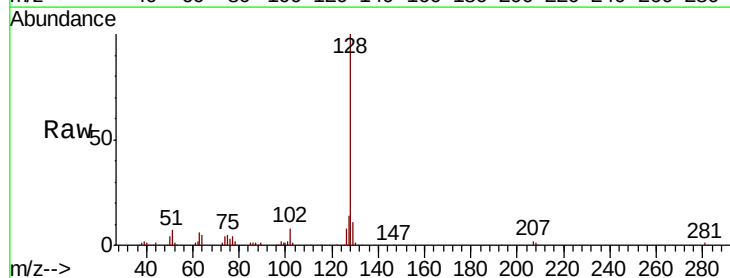
Instrument :
 MSVOA_N
 ClientSampleId :
 JC-02-092118-B

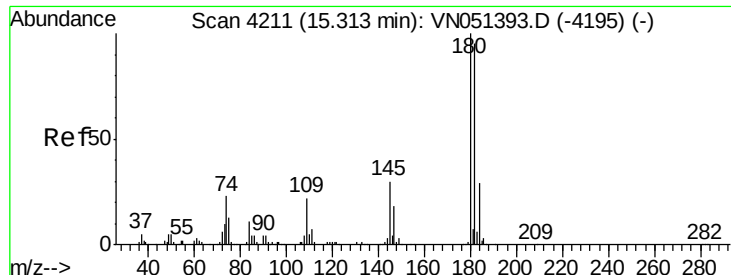
Tot Ion:180 Resp: 1247
 Ion Ratio Lower Upper
 180 100
 182 84.1 48.5 145.6
 145 0.0 14.1 42.4#



#95
 Naphthalene
 Concen: 16.749 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN051455.D
 Acq: 24 Sep 2018 12:41

Tgt Ion:128 Resp: 123499
 Ion Ratio Lower Upper
 128 100
 127 14.3 10.5 15.7
 129 10.9 8.6 12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 0.252 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. -0.00 min
 Lab File: VN051455.D
 Acq: 24 Sep 2018 12:41

Instrument :
 MSVOA_N
 ClientSampleId :
 JC-02-092118-B

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.6	47.2	141.6
145	0.0	14.6	43.8

