

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092318\
 Data File : VN051406.D
 Acq On : 23 Sep 2018 12:20
 Operator : MD\SY
 Sample : J4777-14
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-0920-18-B

Quant Time: Sep 24 06:45:12 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	689623	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1029962	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	882731	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	352741	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	451199	52.23	ug/l	0.00
Spiked Amount			Recovery	=	104.46%	
35) Dibromofluoromethane	7.59	113	401107	48.70	ug/l	0.00
Spiked Amount			Recovery	=	97.40%	
50) Toluene-d8	10.09	98	1459516	47.06	ug/l	0.00
Spiked Amount			Recovery	=	94.12%	
62) 4-Bromofluorobenzene	12.40	95	412321	41.10	ug/l	0.00
Spiked Amount			Recovery	=	82.20%	

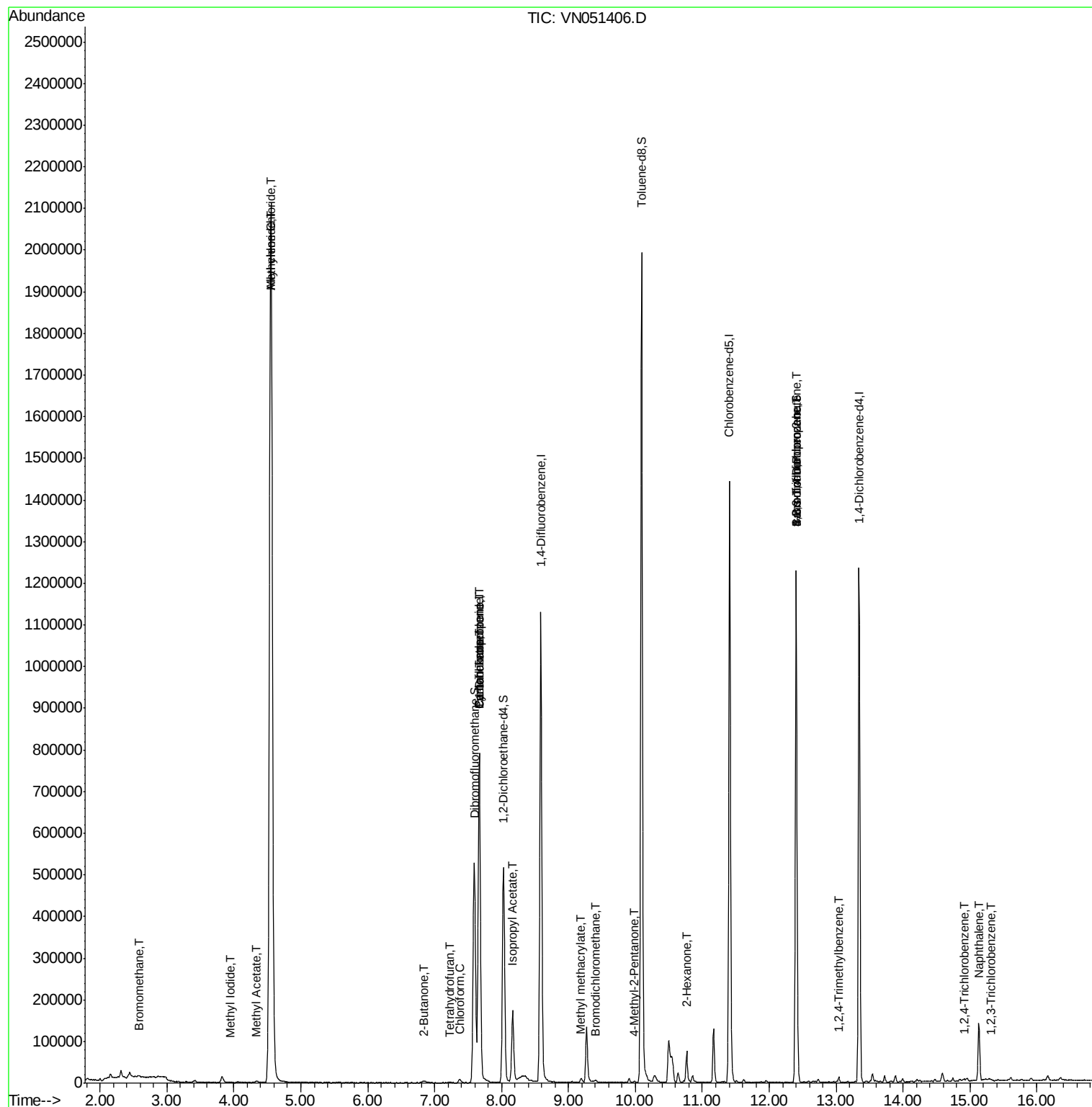
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1775	0.321	ug/l	82
8) Diethyl Ether	3.42	74	1989	Below Cal		86
10) Methyl Iodide	3.95	142	515	0.323	ug/l #	42
14) Allyl chloride	4.55	41	63693	4.948	ug/l #	26
16) Acetone	3.82	43	24527	Below Cal		90
18) Methyl Acetate	4.33	43	3544	0.539	ug/l #	69
20) Methylene Chloride	4.55	84	1610769	188.428	ug/l	99
25) 2-Butanone	6.85	43	4851	1.641	ug/l #	89
29) Tetrahydrofuran	7.22	42	1032	0.551	ug/l #	89
30) Chloroform	7.37	83	8349	0.568	ug/l	88
31) Cyclohexane	7.67	56	13273	0.976	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	48425	4.060	ug/l #	48
38) Carbon Tetrachloride	7.67	117	61429	4.924	ug/l #	16
43) Isopropyl Acetate	8.17	43	201426	16.243	ug/l	98
47) Bromodichloromethane	9.40	83	2640	0.222	ug/l #	96
48) Methyl methacrylate	9.18	41	5859	0.948	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	2342	0.343	ug/l #	62
59) 2-Hexanone	10.77	43	11231	2.540	ug/l #	60
71) Bromoform	12.39	173	1249	0.213	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	200821	34.295	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	200821	105.454	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.04	105	7717	0.316	ug/l	97
93) 1,2,4-Trichlorobenzene	14.91	180	1402	6.163	ug/l #	70
95) Naphthalene	15.13	128	122295	15.869	ug/l	99
96) 1,2,3-Trichlorobenzene	15.32	180	1394	0.230	ug/l #	71

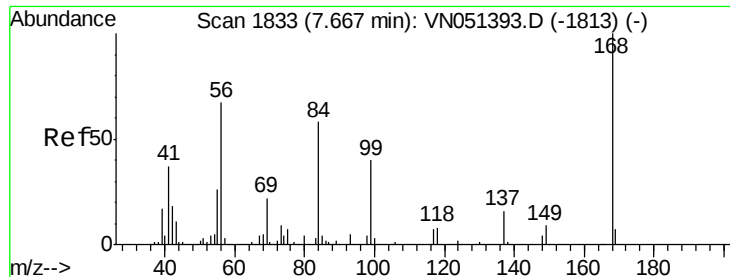
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN092318\
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051406.D

Acq: 23 Sep 2018 12:20

Instrument :

MSVOA_N

ClientSampleId :

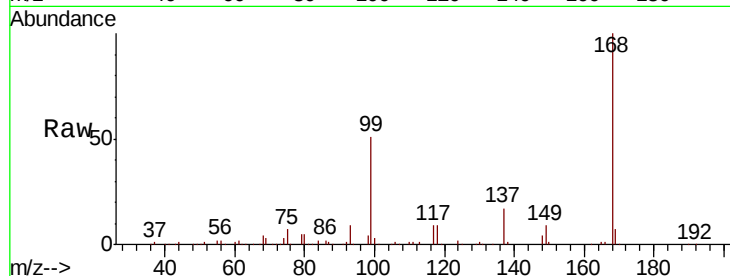
PL-02-0920-18-B

Tgt Ion:168 Resp: 689623

Ion Ratio Lower Upper

168 100

99 51.2 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051393.D (-1813) (-)

7.67

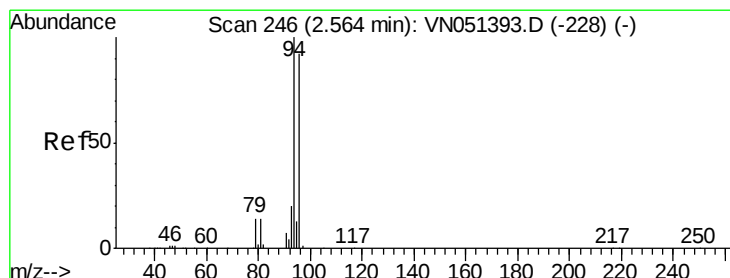
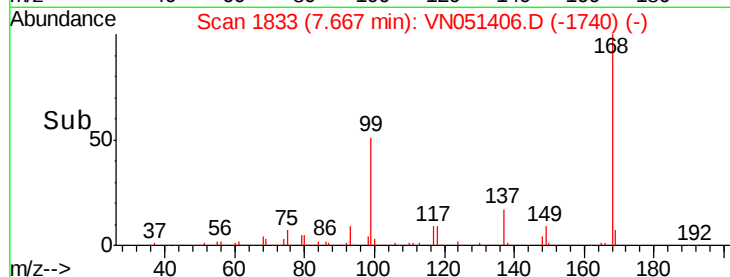
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.321 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051406.D

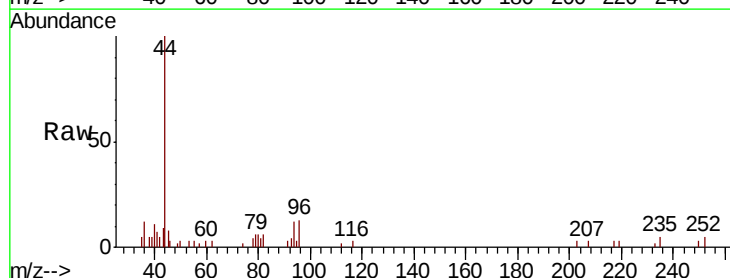
Acq: 23 Sep 2018 12:20

Tgt Ion: 94 Resp: 1775

Ion Ratio Lower Upper

94 100

96 108.8 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN051393.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN051393.D (-228) (-)

2.57

1000

800

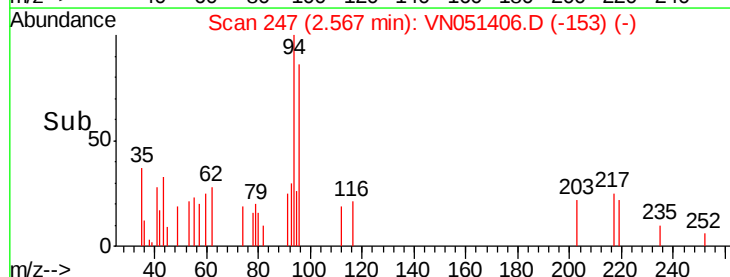
600

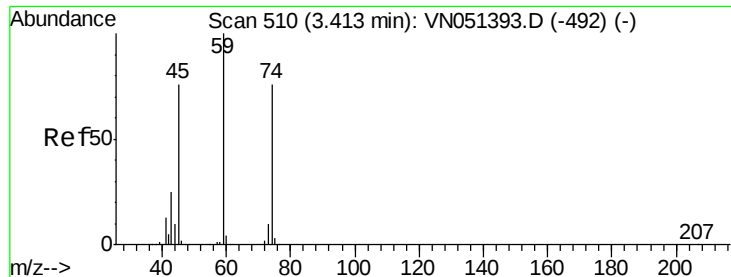
400

200

0

Time-->





#8

Diethyl Ether

Concen: Below Cal

RT: 3.42 min Scan# 511

Delta R.T. 0.00 min

Lab File: VN051406.D

Acq: 23 Sep 2018 12:20

Instrument :

MSVOA_N

ClientSampleId :

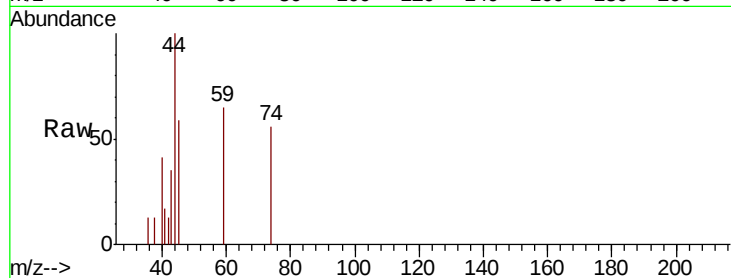
PL-02-0920-18-B

Tgt Ion: 74 Resp: 1989

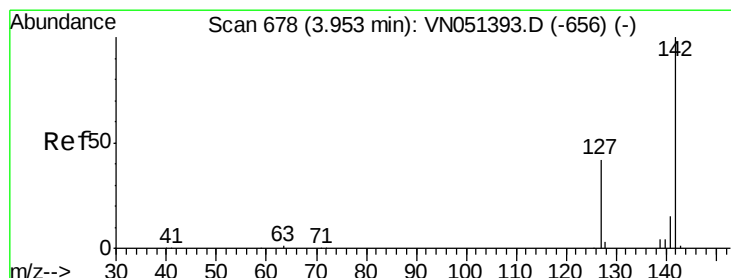
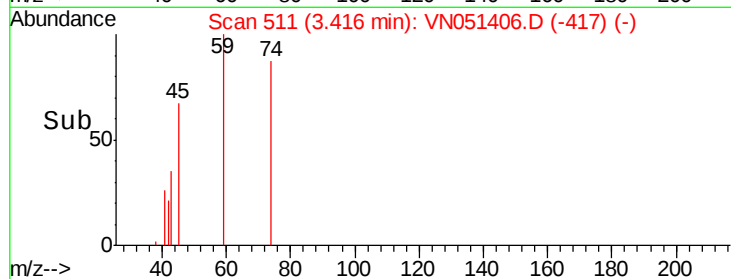
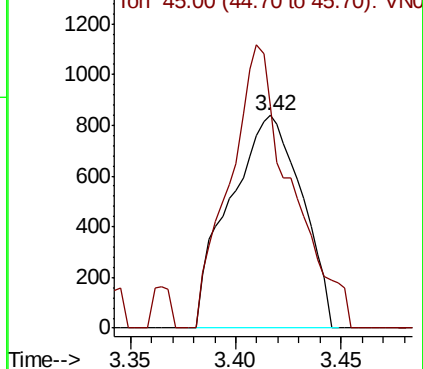
Ion Ratio Lower Upper

74 100

45 114.3 50.2 150.7



Abundance Ion 74.00 (73.70 to 74.70): VN051393.D (-492) (-)



#10

Methyl Iodide

Concen: 0.323 ug/l

RT: 3.95 min Scan# 678

Delta R.T. 0.00 min

Lab File: VN051406.D

Acq: 23 Sep 2018 12:20

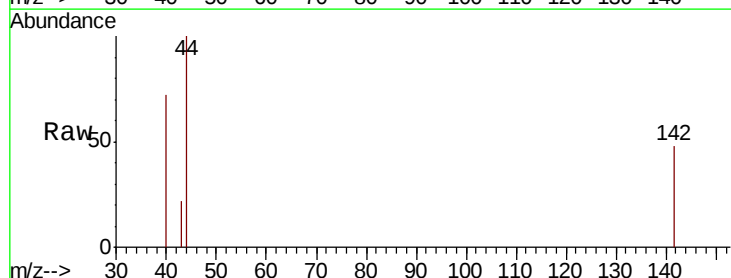
Tgt Ion: 142 Resp: 515

Ion Ratio Lower Upper

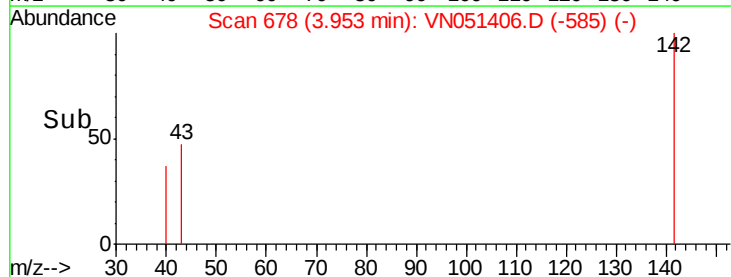
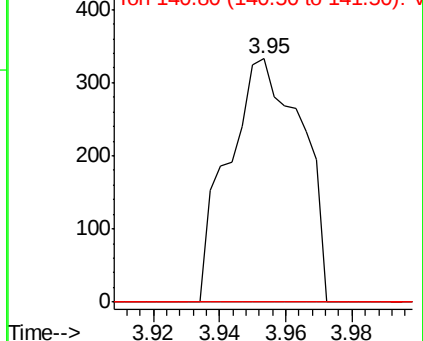
142 100

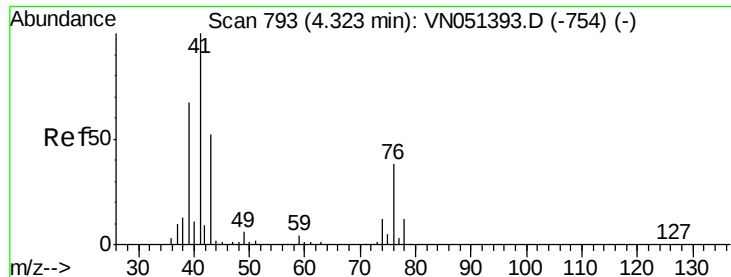
127 0.0 33.2 49.8#

141 0.0 11.5 17.3#



Abundance Ion 141.80 (141.50 to 142.50): VN051393.D (-656) (-)





#14

Allyl chloride

Concen: 4.948 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.23 min

Lab File: VN051406.D

Acq: 23 Sep 2018 12:20

Instrument :

MSVOA_N

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PL-02-0920-18-B

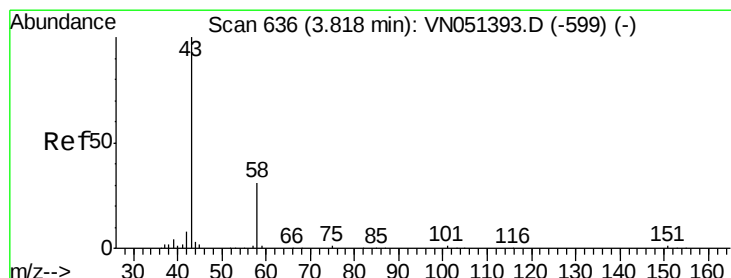
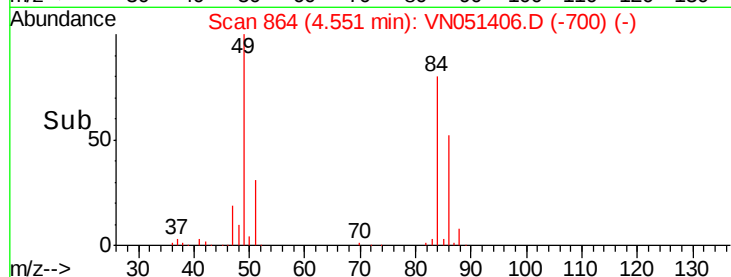
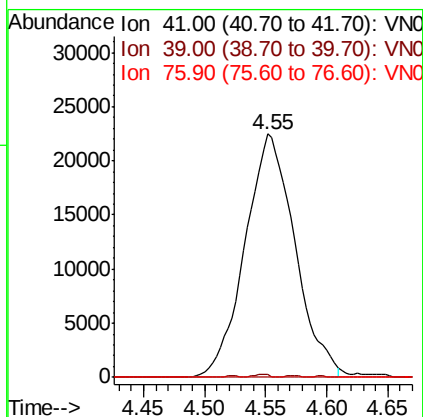
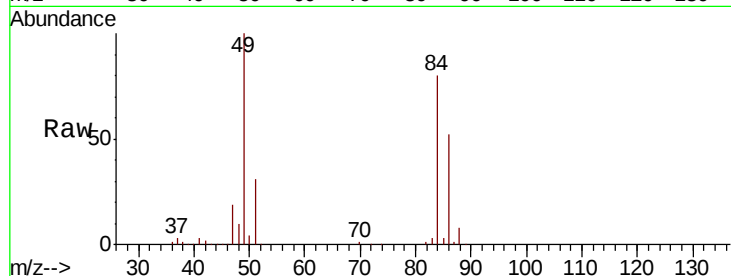
Tgt Ion: 41 Resp: 63693

Ion Ratio Lower Upper

41 100

39 0.3 51.4 77.2#

76 0.0 28.1 42.1#



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN051406.D

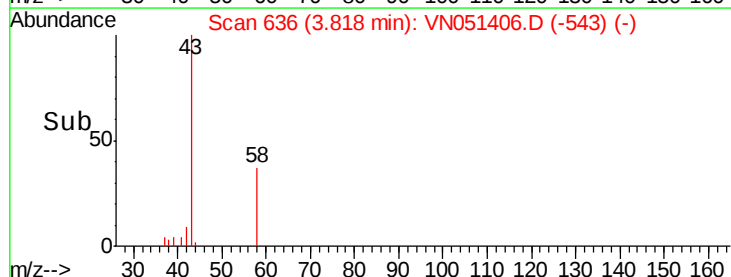
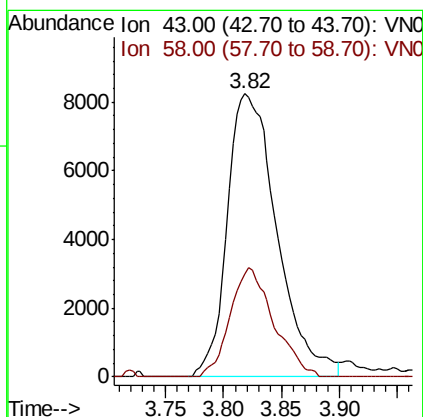
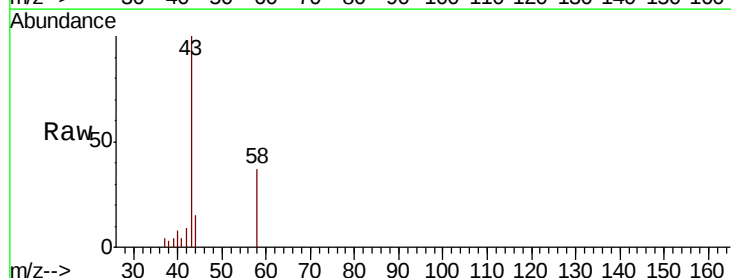
Acq: 23 Sep 2018 12:20

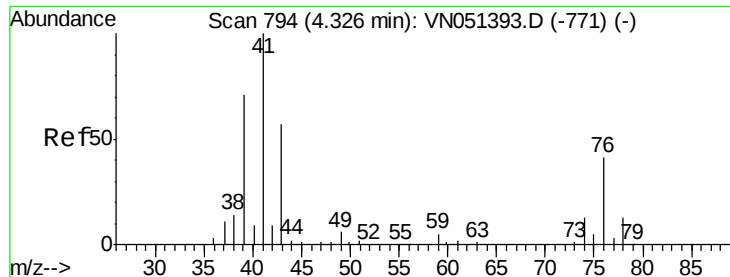
Tgt Ion: 43 Resp: 24527

Ion Ratio Lower Upper

43 100

58 36.6 25.0 37.4

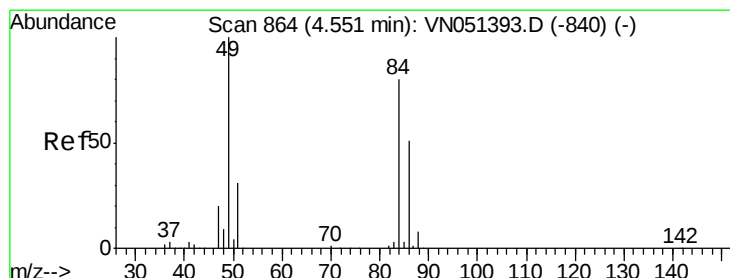
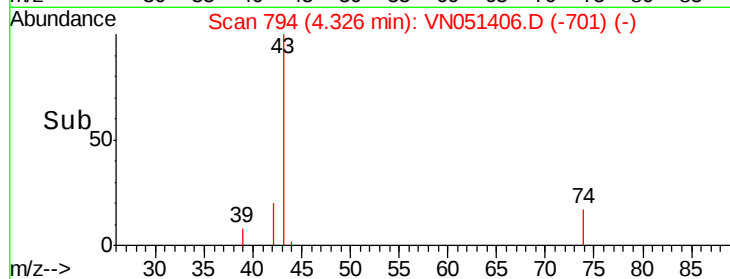
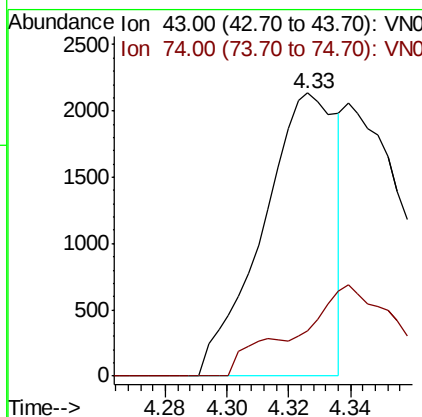
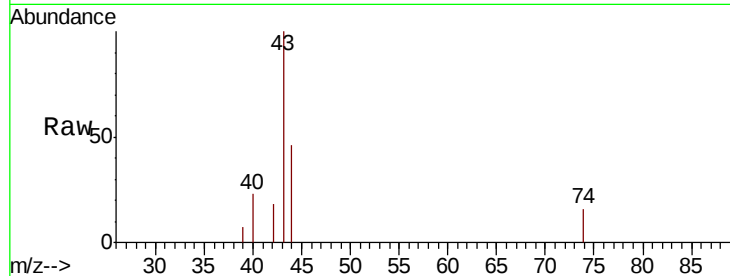




#18
Methyl Acetate
Concen: 0.539 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN051406.D
Acq: 23 Sep 2018 12:20

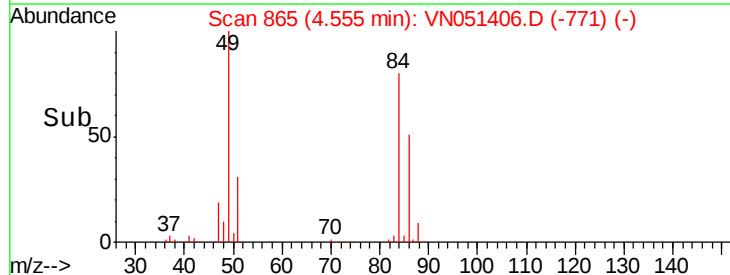
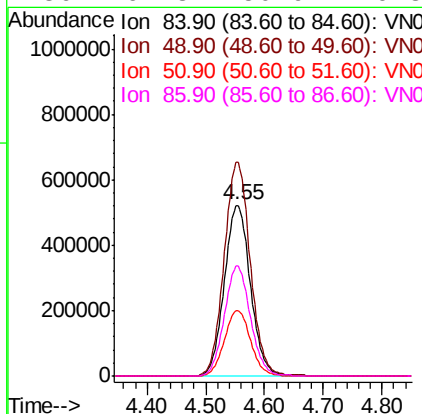
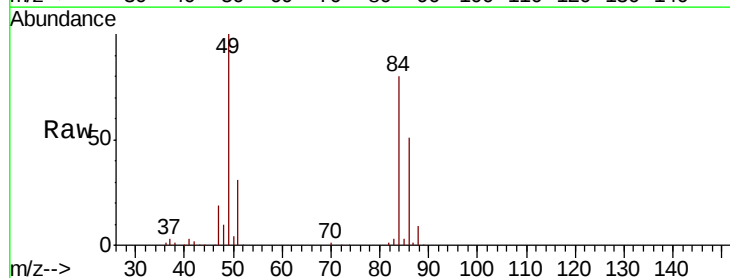
Instrument :
MSVOA_N
ClientSampleId :
PL-02-0920-18-B

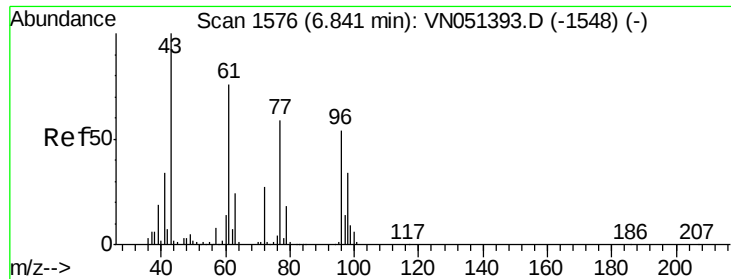
Tgt Ion: 43 Resp: 3544
Ion Ratio Lower Upper
43 100
74 8.2 18.8 28.2#



#20
Methylene Chloride
Concen: 188.428 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051406.D
Acq: 23 Sep 2018 12:20

Tgt Ion: 84 Resp: 1610769
Ion Ratio Lower Upper
84 100
49 125.0 99.9 149.9
51 38.6 31.4 47.2
86 64.3 50.9 76.3

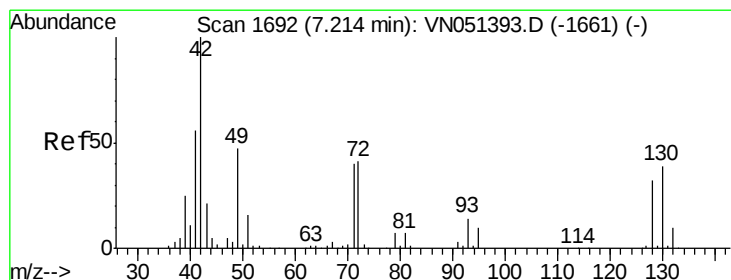
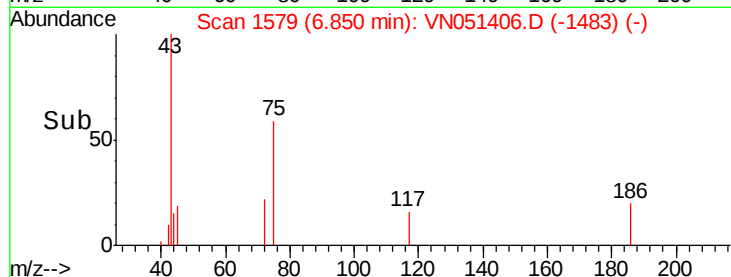
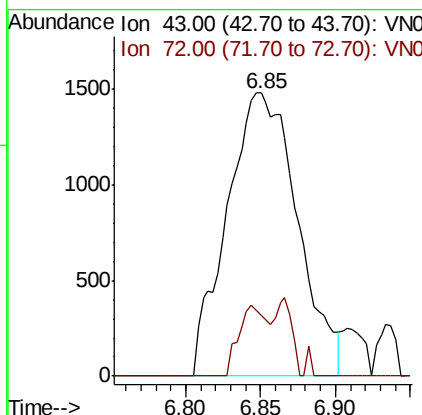
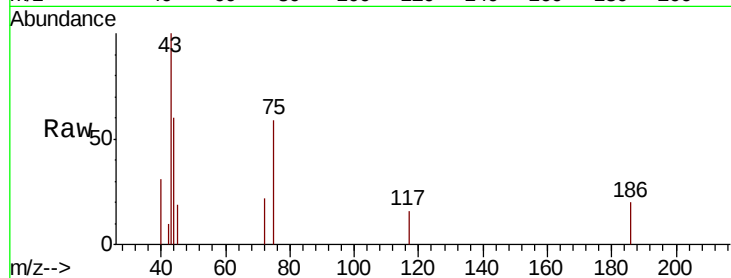




#25
 2-Butanone
 Concen: 1.641 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. 0.01 min
 Lab File: VN051406.D
 Acq: 23 Sep 2018 12:20

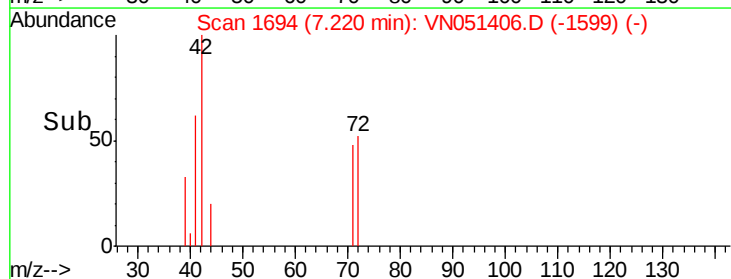
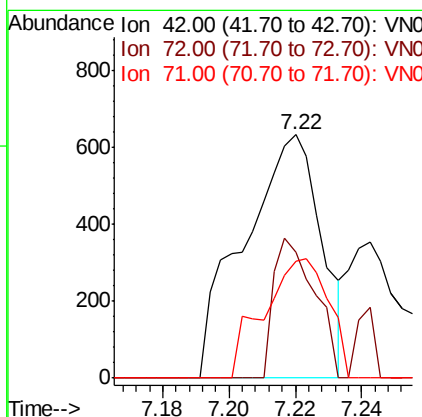
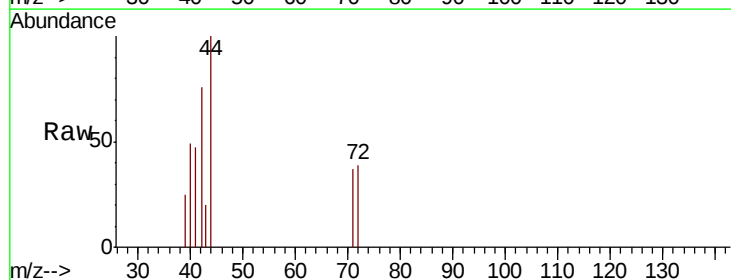
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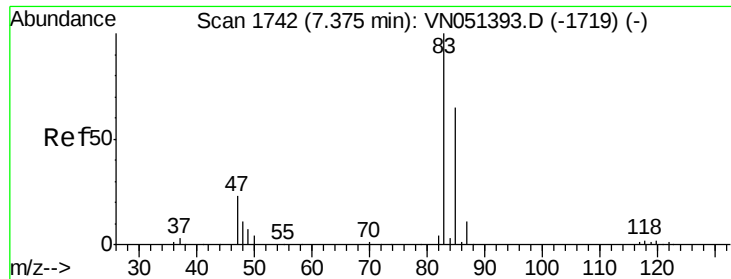
Tgt Ion: 43 Resp: 4851
 Ion Ratio Lower Upper
 43 100
 72 21.6 21.8 32.6#



#29
 Tetrahydrofuran
 Concen: 0.551 ug/l
 RT: 7.22 min Scan# 1694
 Delta R.T. 0.01 min
 Lab File: VN051406.D
 Acq: 23 Sep 2018 12:20

Tgt Ion: 42 Resp: 1032
 Ion Ratio Lower Upper
 42 100
 72 30.4 34.3 51.5#
 71 41.2 32.2 48.4

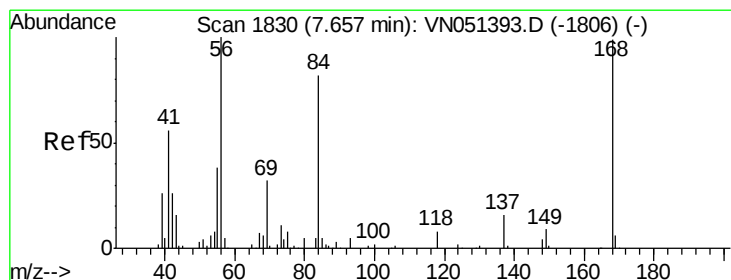
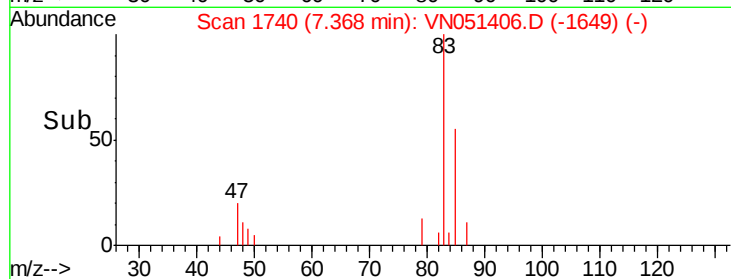
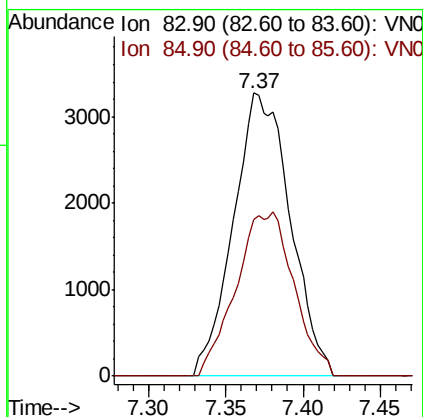
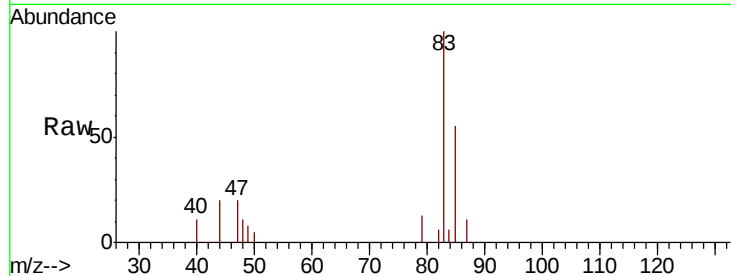




#30
Chloroform
Concen: 0.568 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.01 min
Lab File: VN051406.D
Acq: 23 Sep 2018 12:20

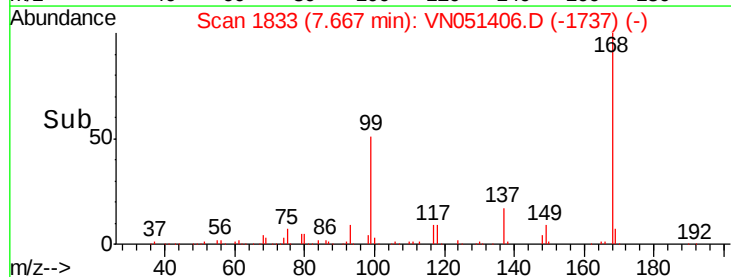
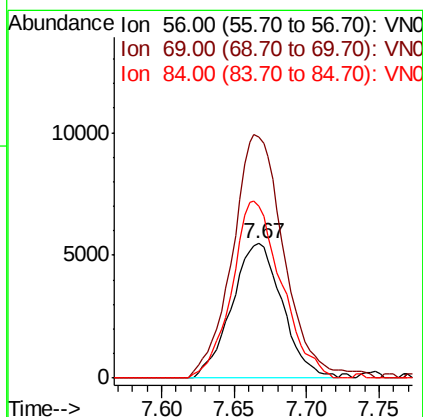
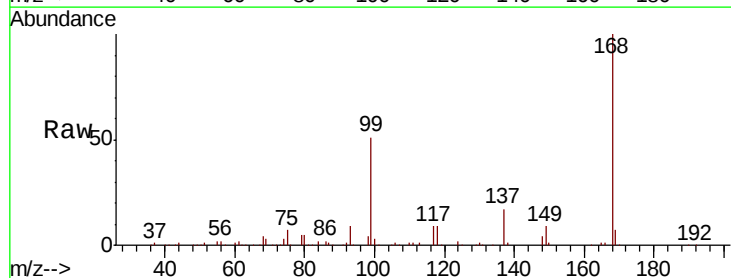
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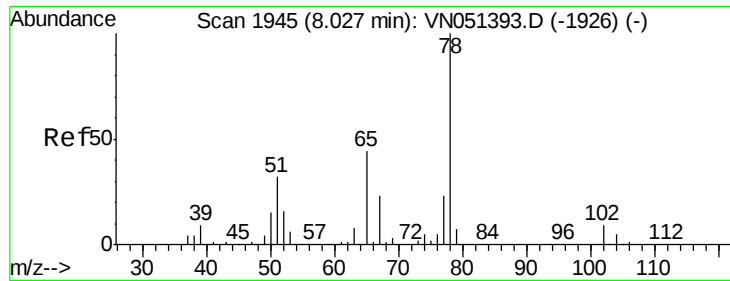
Tgt Ion: 83 Resp: 8349
Ion Ratio Lower Upper
83 100
85 55.2 51.8 77.6



#31
Cyclohexane
Concen: 0.976 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051406.D
Acq: 23 Sep 2018 12:20

Tgt Ion: 56 Resp: 13273
Ion Ratio Lower Upper
56 100
69 179.3 25.8 38.6#
84 128.1 66.0 99.0#

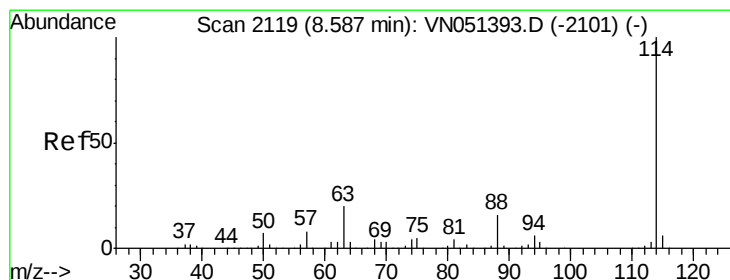
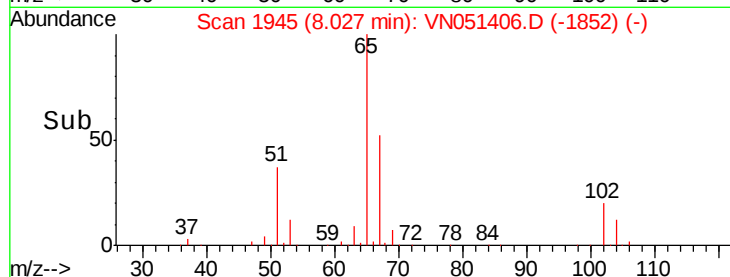
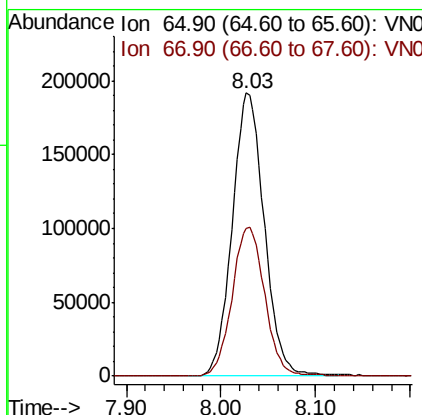
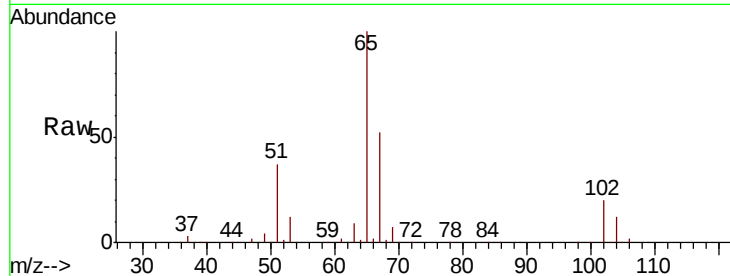




#33
 1,2-Dichloroethane-d4
 Concen: 52.229 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051406.D
 Acq: 23 Sep 2018 12:20

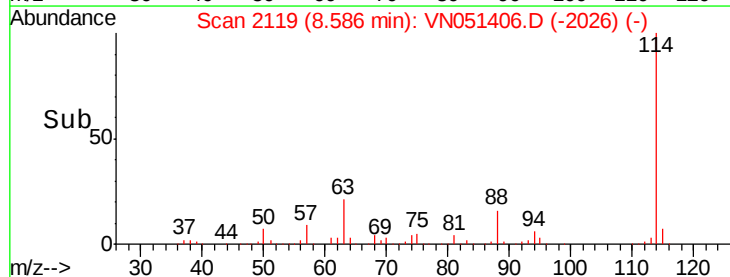
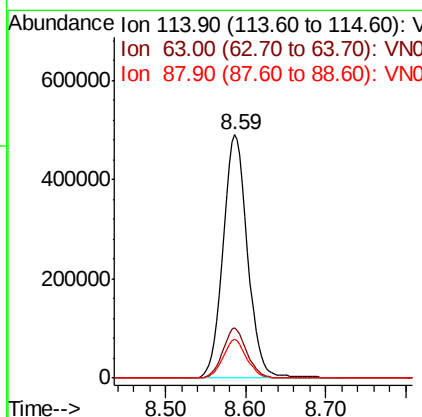
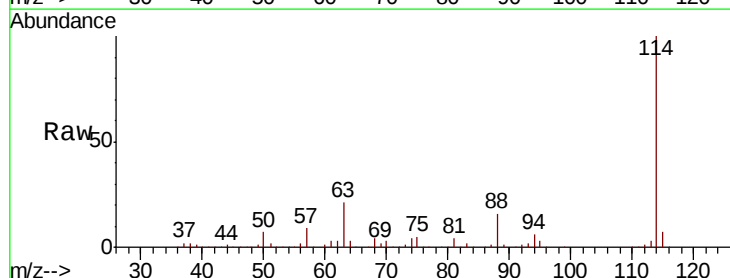
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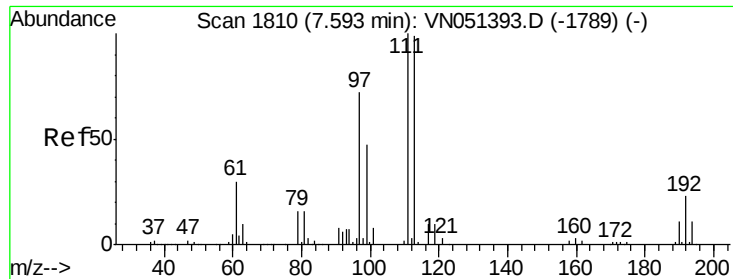
Tgt Ion: 65 Resp: 451199
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051406.D
 Acq: 23 Sep 2018 12:20

Tgt Ion: 114 Resp: 1029962
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.2
 88 16.0 0.0 31.4

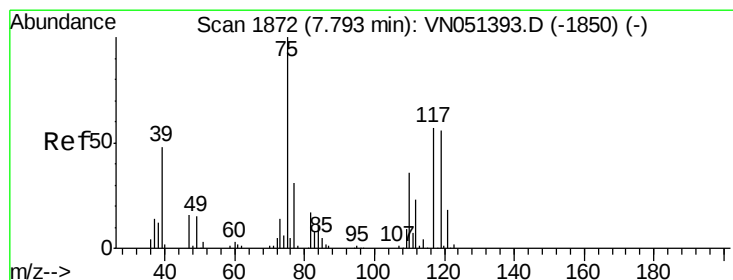
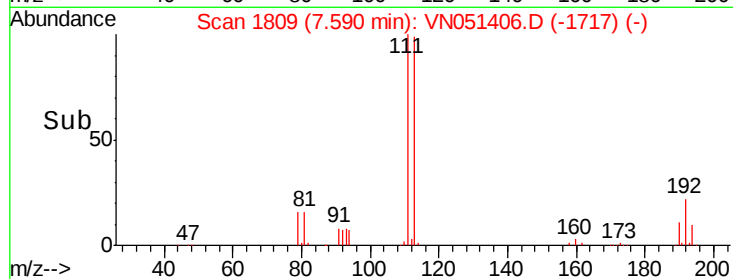
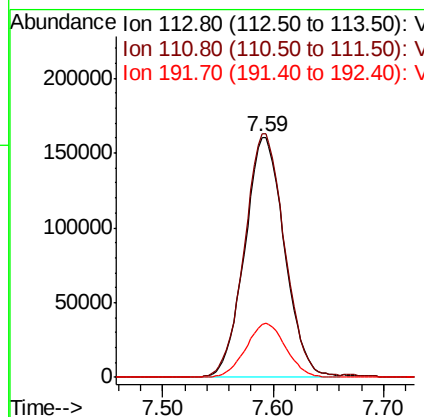
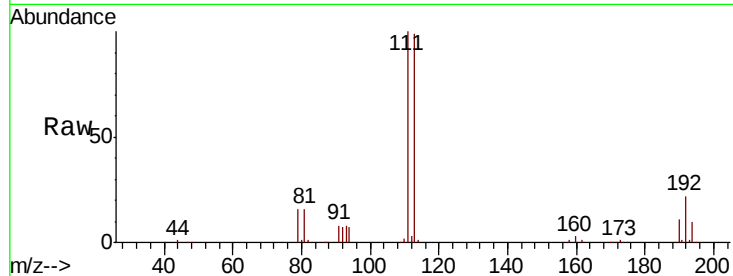




#35
 Dibromofluoromethane
 Concen: 48.701 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN051406.D
 Acq: 23 Sep 2018 12:20

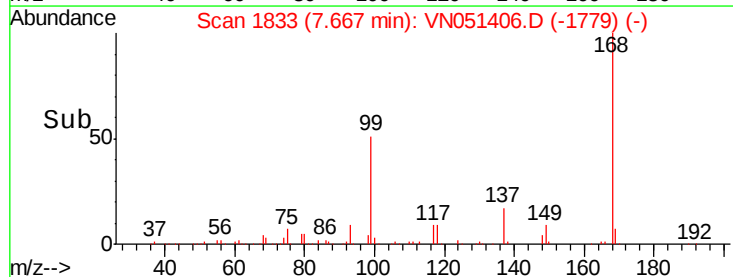
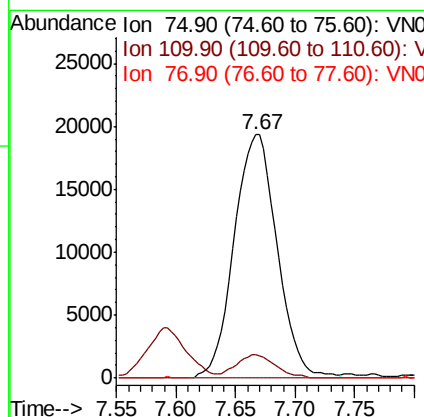
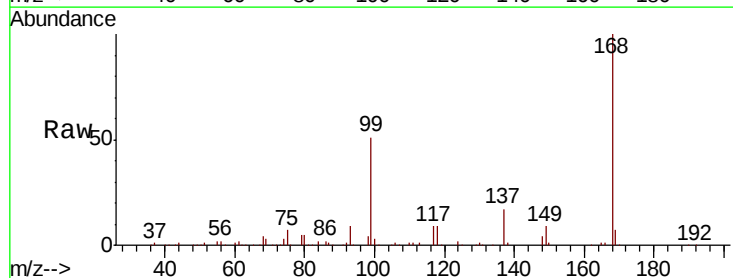
Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-0920-18-B

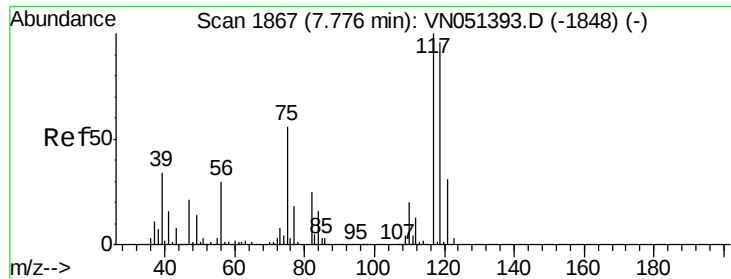
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.6	123.8
192	22.6	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 4.060 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051406.D
 Acq: 23 Sep 2018 12:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.1	54.3#
77	0.0	25.6	38.4#





#38

Carbon Tetrachloride

Concen: 4.924 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051406.D

Acq: 23 Sep 2018 12:20

Instrument :

MSVOA_N

ClientSampleId :

PL-02-0920-18-B

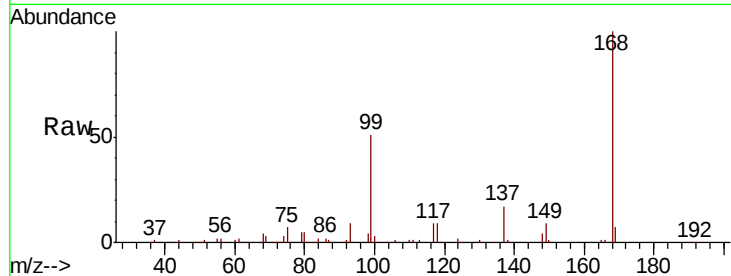
Tgt Ion:117 Resp: 61429

Ion Ratio Lower Upper

117 100

119 5.3 76.9 115.3#

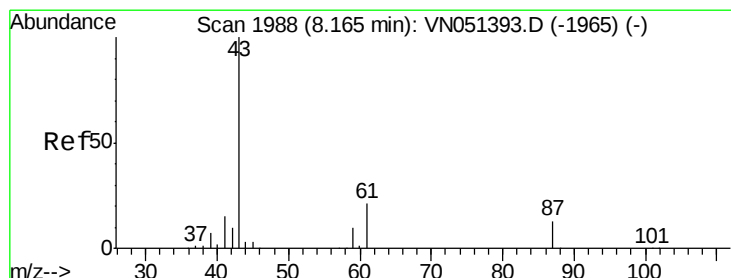
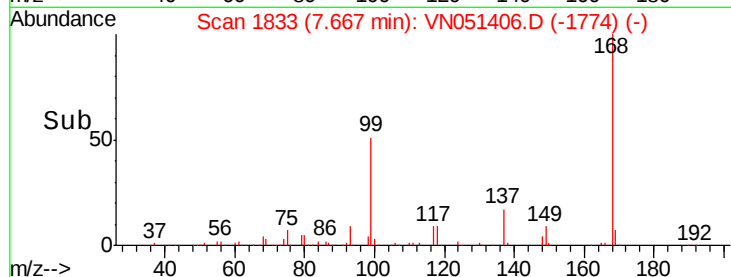
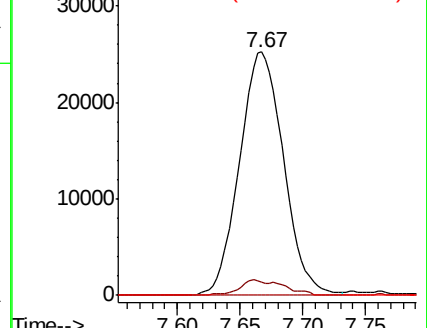
121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 16.243 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN051406.D

Acq: 23 Sep 2018 12:20

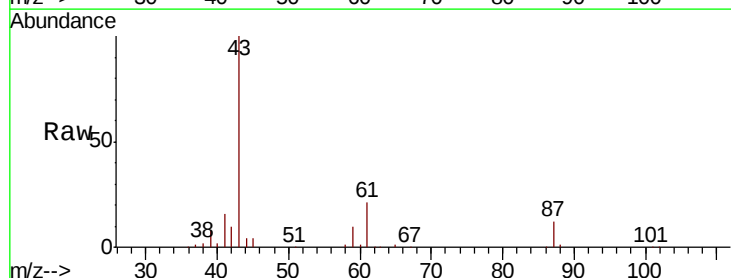
Tgt Ion: 43 Resp: 201426

Ion Ratio Lower Upper

43 100

61 20.1 16.8 25.2

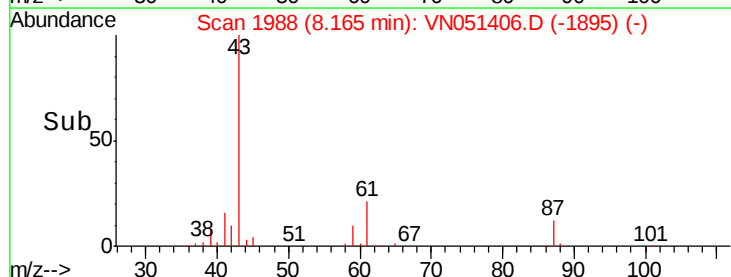
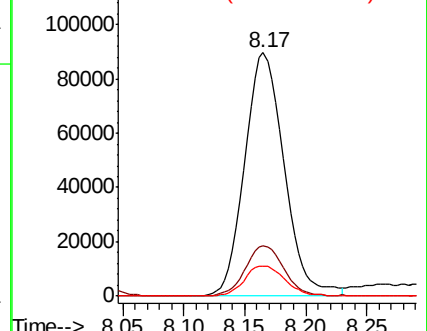
87 12.7 10.7 16.1

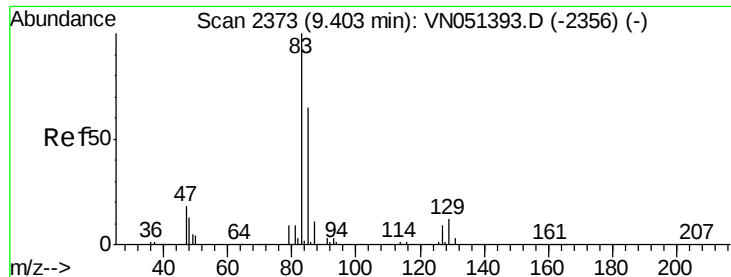


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#47

Bromodichloromethane

Concen: 0.222 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN051406.D

Acq: 23 Sep 2018 12:20

Instrument :

MSVOA_N

ClientSampleId :

PL-02-0920-18-B

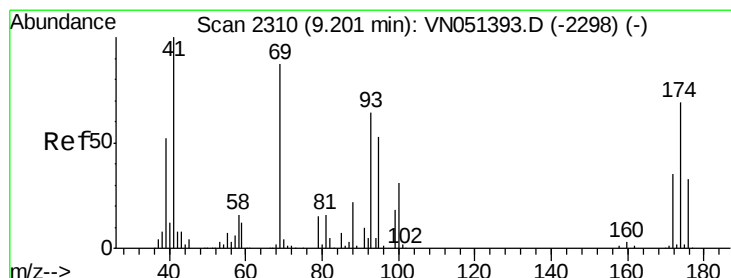
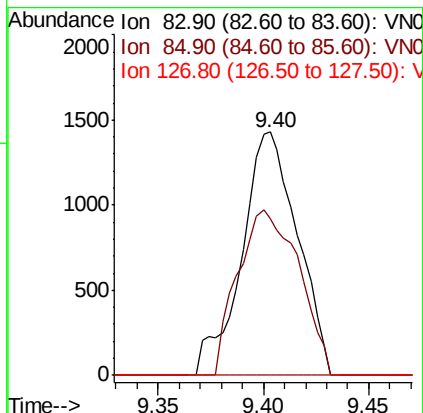
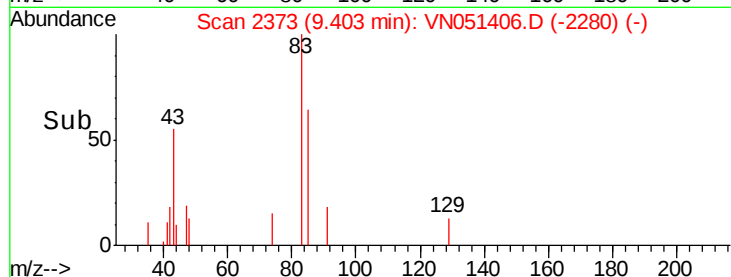
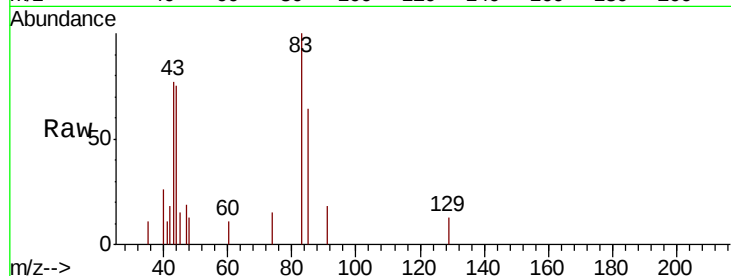
Tgt Ion: 83 Resp: 2640

Ion Ratio Lower Upper

83 100

85 64.2 51.8 77.6

127 0.0 7.4 11.2#



#48

Methyl methacrylate

Concen: 0.948 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN051406.D

Acq: 23 Sep 2018 12:20

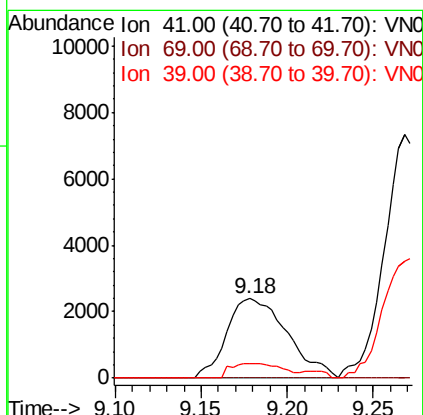
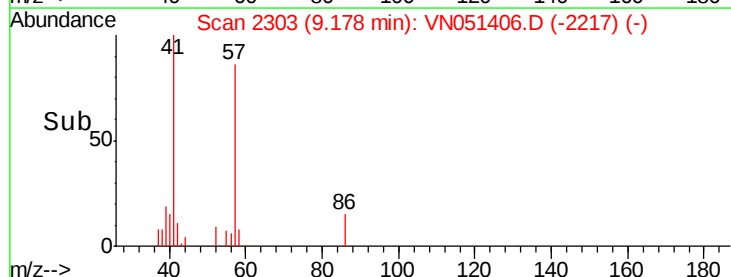
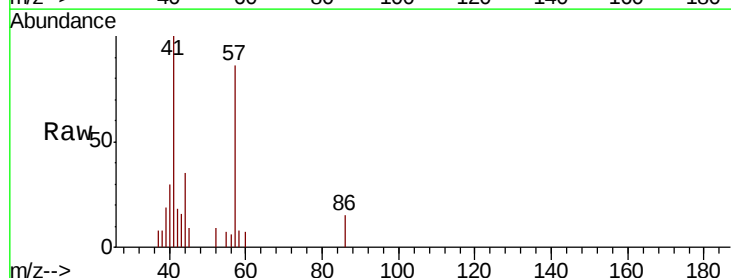
Tgt Ion: 41 Resp: 5859

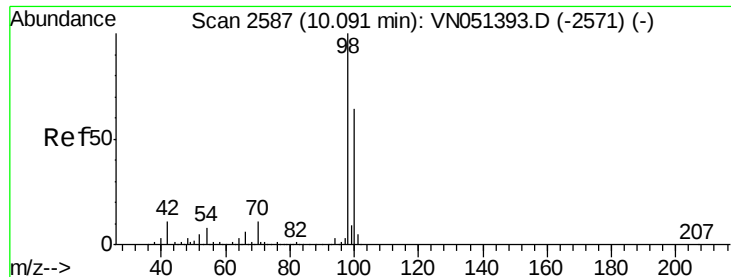
Ion Ratio Lower Upper

41 100

69 0.0 70.4 105.6#

39 15.9 43.8 65.8#





#50

Toluene-d8

Concen: 47.059 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051406.D

Acq: 23 Sep 2018 12:20

Instrument :

MSVOA_N

ClientSampleId :

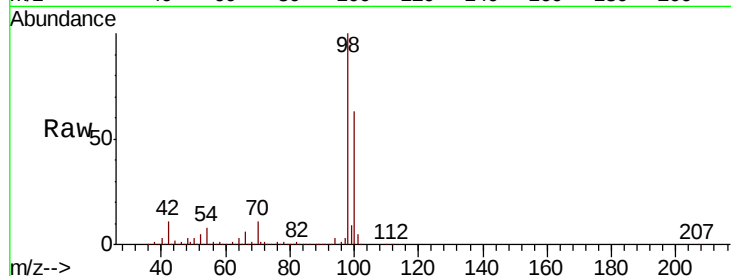
PL-02-0920-18-B

Tgt Ion: 98 Resp: 1459516

Ion Ratio Lower Upper

98 100

100 63.0 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN051393.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN051393.D (-2571) (-)

10.09

800000

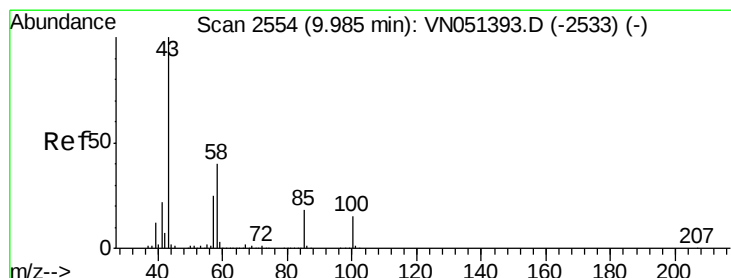
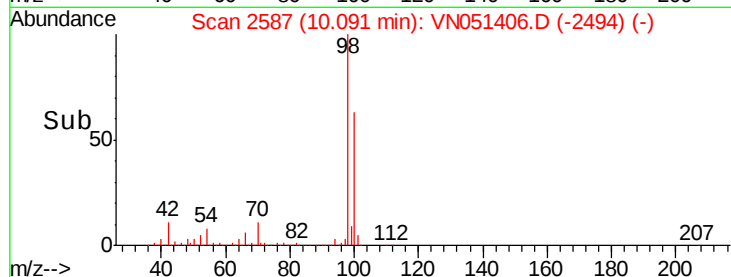
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.343 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051406.D

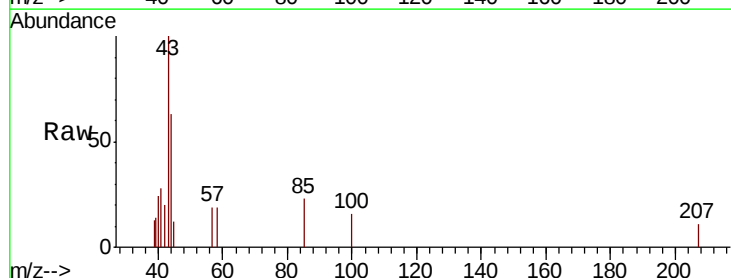
Acq: 23 Sep 2018 12:20

Tgt Ion: 43 Resp: 2342

Ion Ratio Lower Upper

43 100

58 15.8 31.5 47.3#



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN051393.D (-2533) (-)

9.99

2000

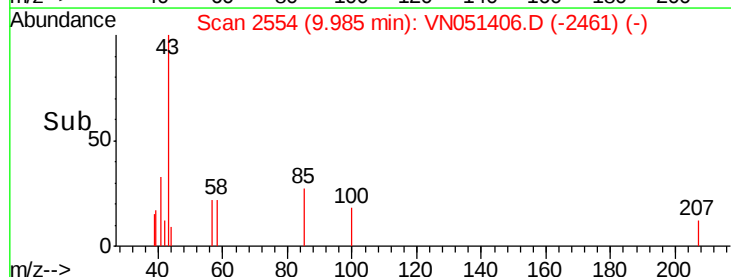
1500

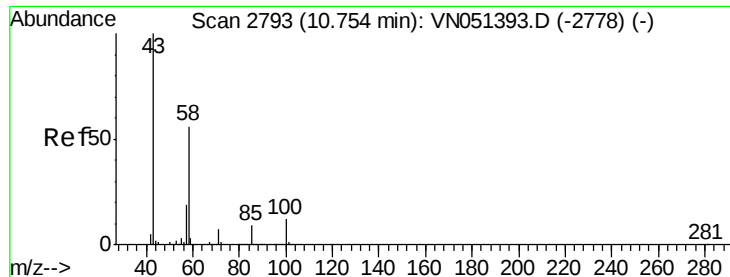
1000

500

0

Time-->

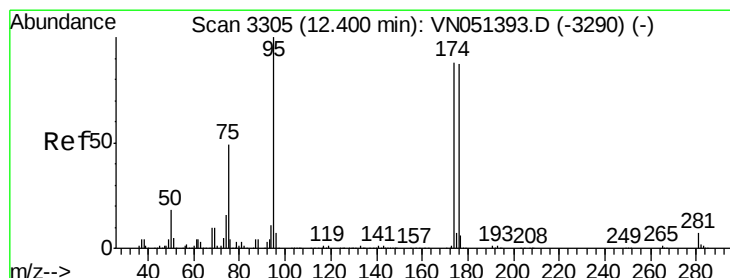
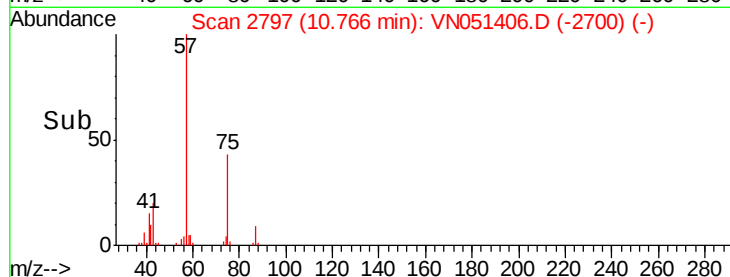
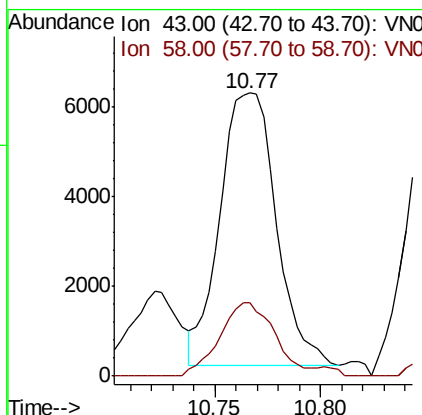
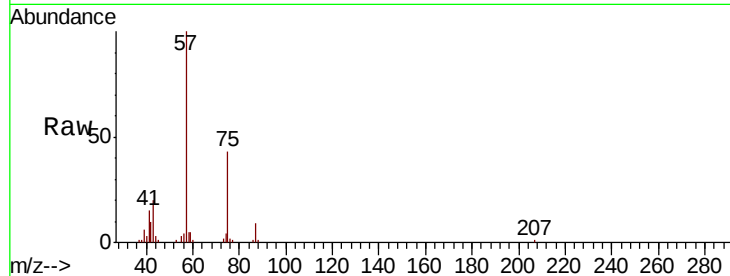




#59
2-Hexanone
Concen: 2.540 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051406.D
Acq: 23 Sep 2018 12:20

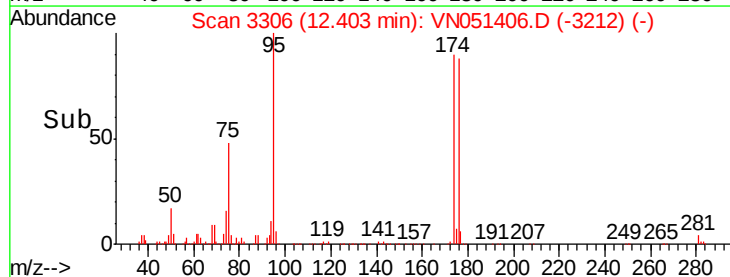
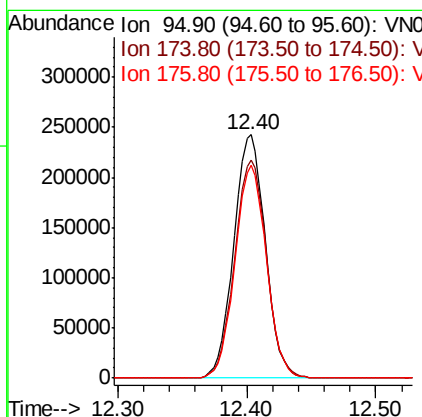
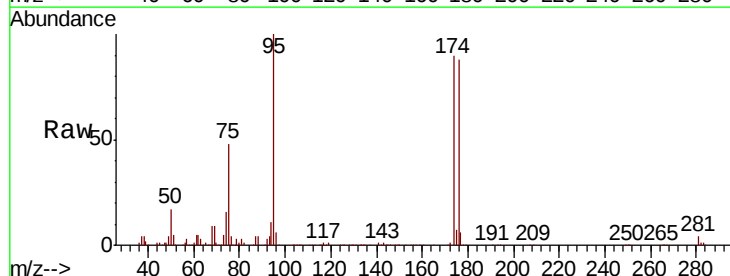
Instrument :
MSVOA_N
ClientSampleId :
PL-02-0920-18-B

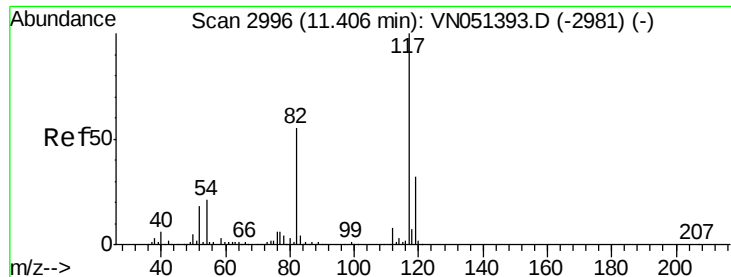
Tgt Ion: 43 Resp: 11231
Ion Ratio Lower Upper
43 100
58 26.4 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 41.096 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051406.D
Acq: 23 Sep 2018 12:20

Tgt Ion: 95 Resp: 412321
Ion Ratio Lower Upper
95 100
174 90.3 0.0 181.6
176 87.1 0.0 176.4

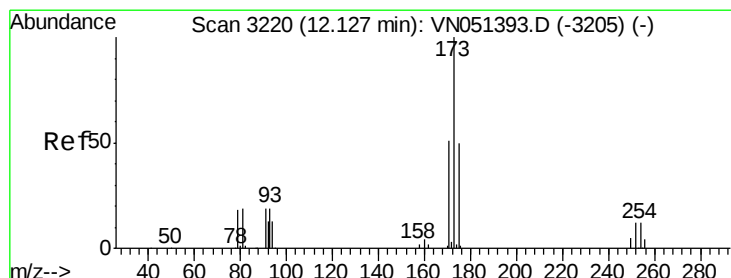
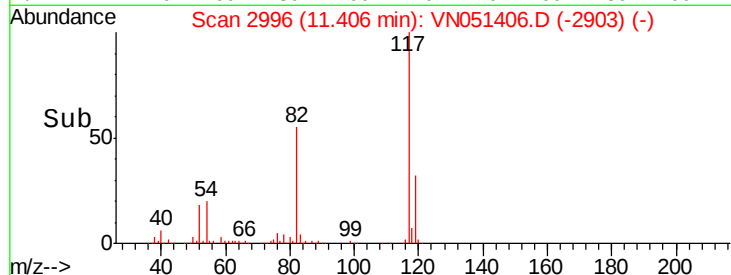
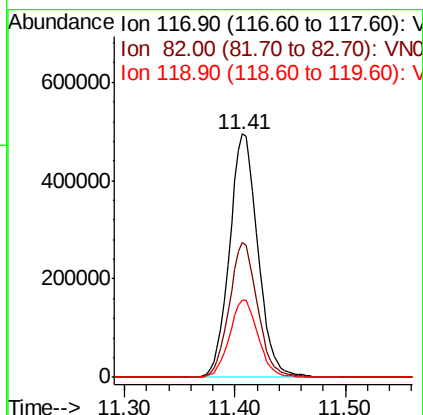
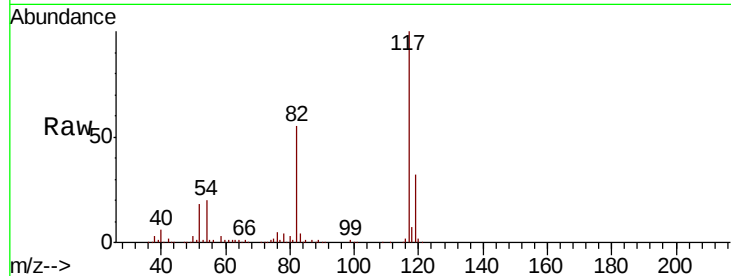




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051406.D
Acq: 23 Sep 2018 12:20

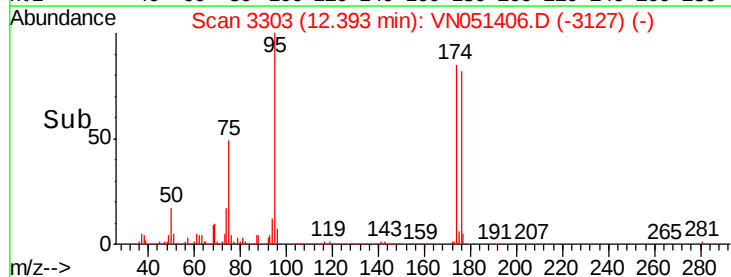
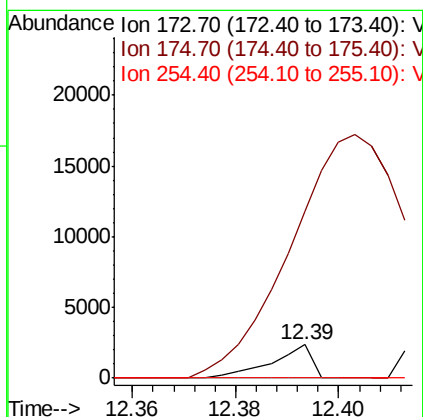
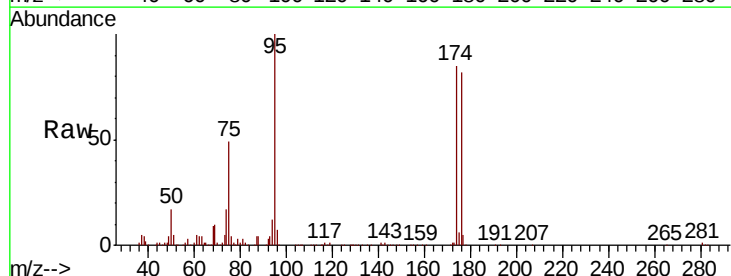
Instrument :
MSVOA_N
ClientSampleId :
PL-02-0920-18-B

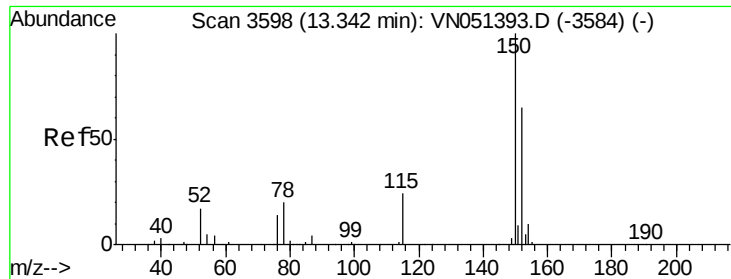
Tgt Ion:117 Resp: 882731
Ion Ratio Lower Upper
117 100
82 55.3 44.2 66.2
119 31.7 25.9 38.9



#71
Bromoform
Concen: 0.213 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN051406.D
Acq: 23 Sep 2018 12:20

Tgt Ion:173 Resp: 1249
Ion Ratio Lower Upper
173 100
175 1942.6 24.8 74.3#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN051406.D

Acq: 23 Sep 2018 12:20

Instrument :

MSVOA_N

ClientSampled :

PL-02-0920-18-B

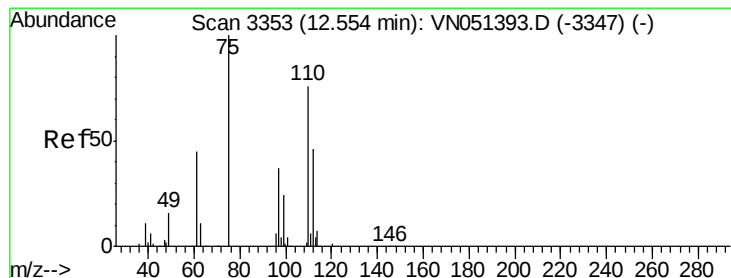
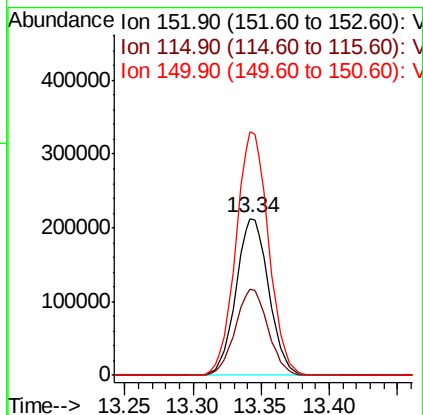
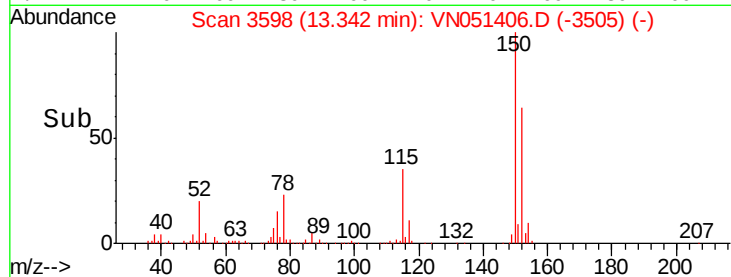
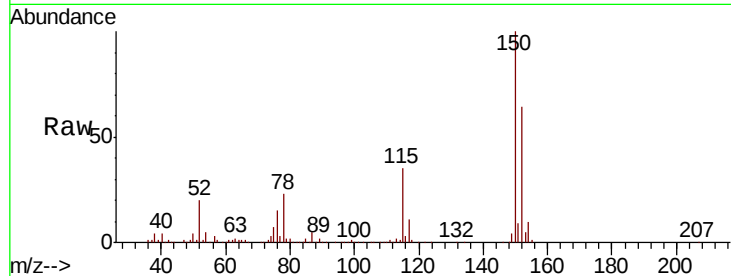
Tgt Ion:152 Resp: 352741

Ion Ratio Lower Upper

152 100

115 55.1 28.3 84.9

150 155.5 0.0 353.6



#76

1,2,3-Trichloropropane

Concen: 34.295 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051406.D

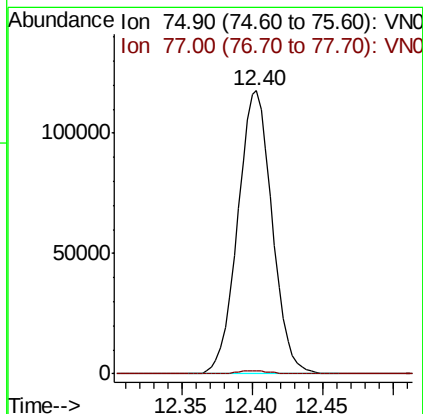
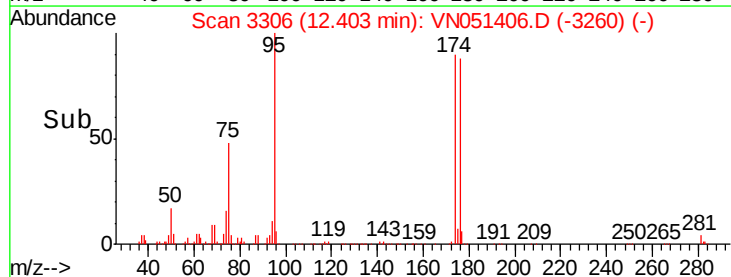
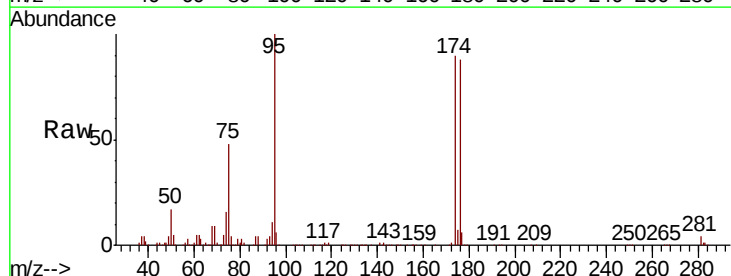
Acq: 23 Sep 2018 12:20

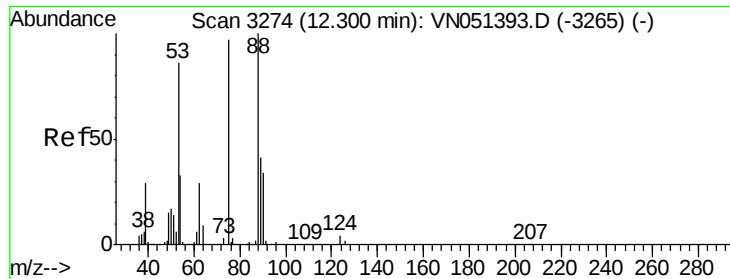
Tgt Ion: 75 Resp: 200821

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 105.454 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051406.D

Acq: 23 Sep 2018 12:20

Instrument :

MSVOA_N

ClientSampleId :

PL-02-0920-18-B

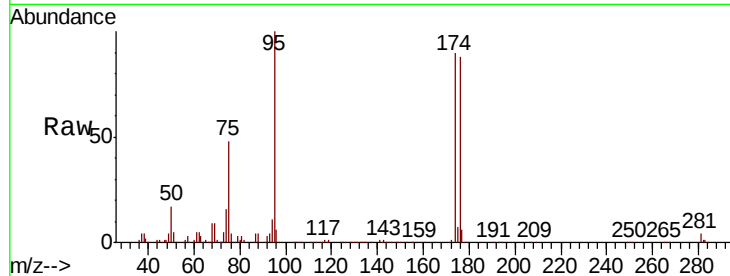
Tgt Ion: 75 Resp: 200821

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

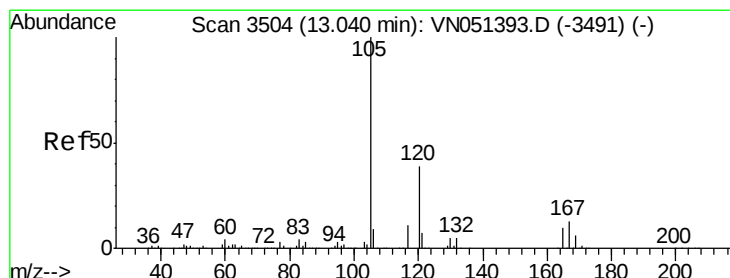
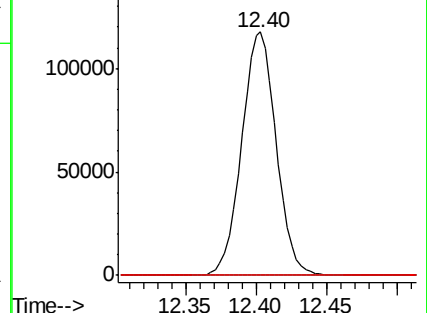
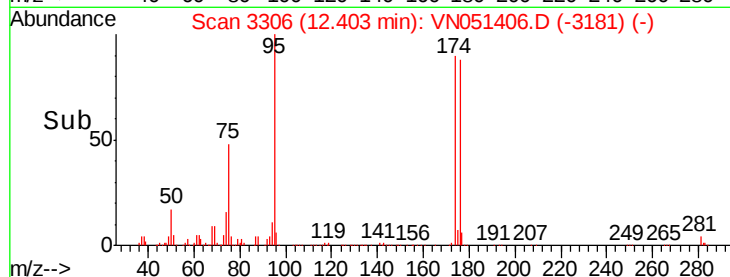
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN051406.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN051406.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN051406.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.316 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN051406.D

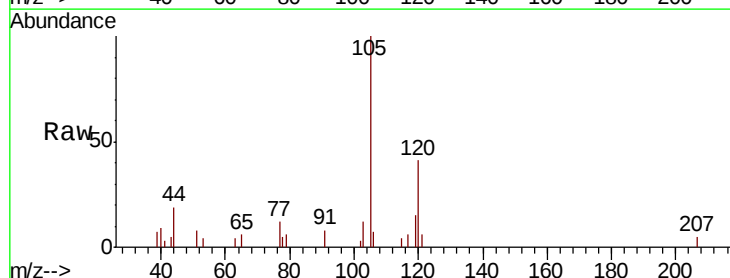
Acq: 23 Sep 2018 12:20

Tgt Ion: 105 Resp: 7717

Ion Ratio Lower Upper

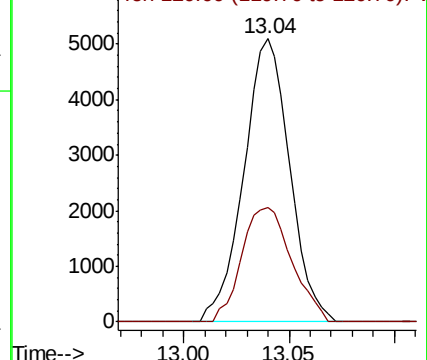
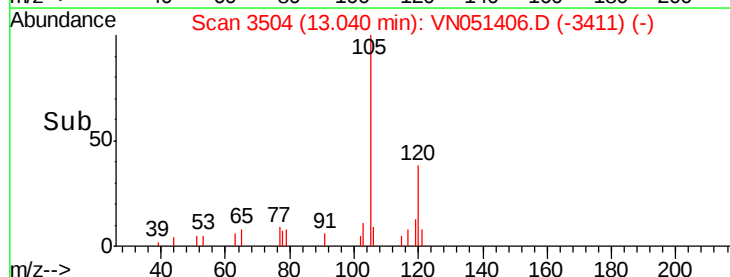
105 100

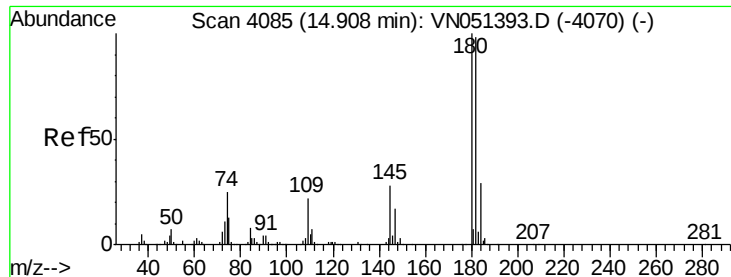
120 43.9 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): VN051406.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN051406.D (-3411) (-)





#93

1,2,4-Trichlorobenzene

Concen: 6.163 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN051406.D

Acq: 23 Sep 2018 12:20

Instrument :

MSVOA_N

ClientSampleId :

PL-02-0920-18-B

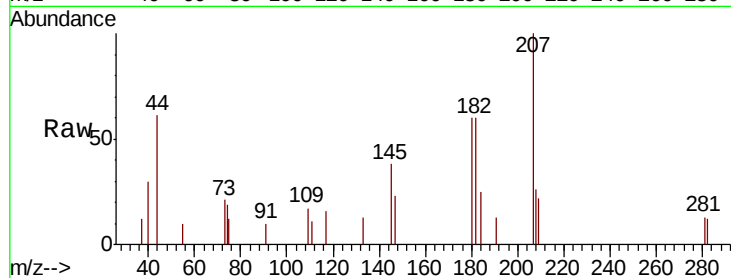
Tgt Ion:180 Resp: 1402

Ion Ratio Lower Upper

180 100

182 109.5 48.5 145.6

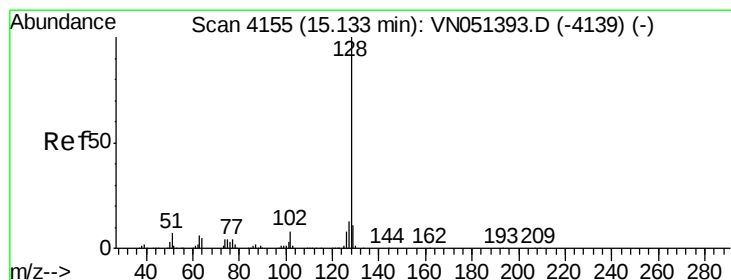
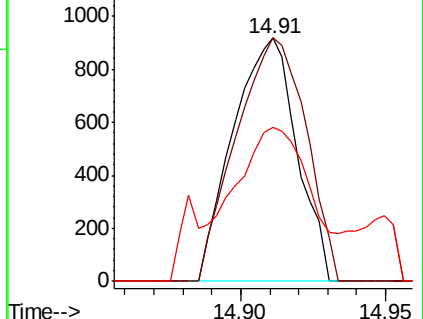
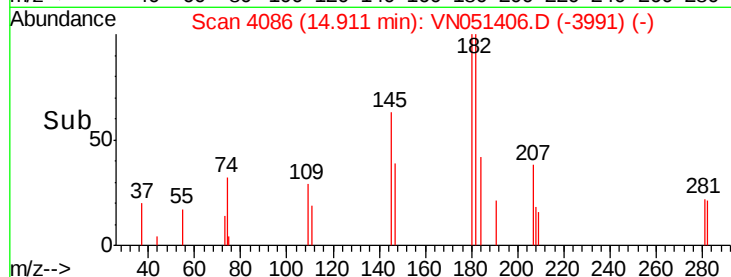
145 75.2 14.1 42.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 15.869 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051406.D

Acq: 23 Sep 2018 12:20

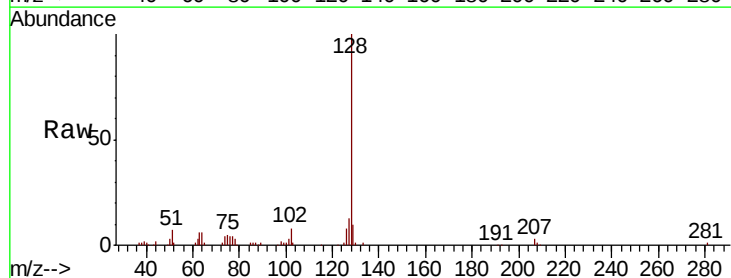
Tgt Ion:128 Resp: 122295

Ion Ratio Lower Upper

128 100

127 13.4 10.5 15.7

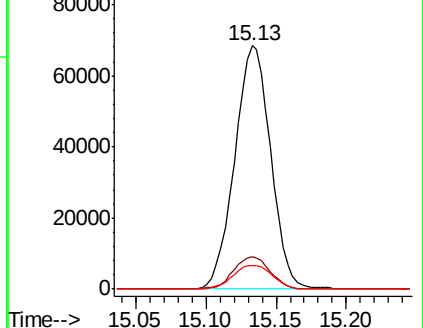
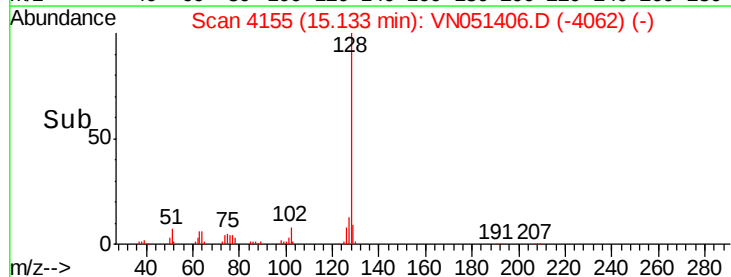
129 10.5 8.6 12.8

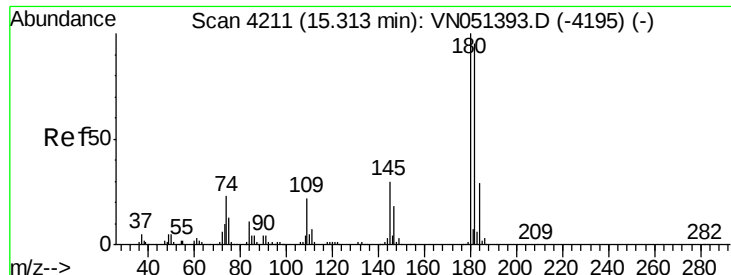


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

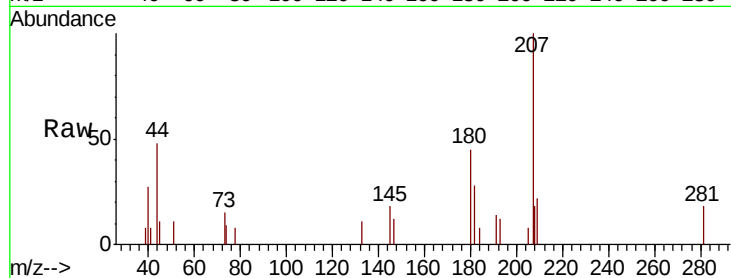




#96
 1,2,3-Trichlorobenzene
 Concen: 0.230 ug/l
 RT: 15.32 min Scan# 4213
 Delta R.T. 0.01 min
 Lab File: VN051406.D
 Acq: 23 Sep 2018 12:20

Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-0920-18-B

Tgt Ion	Ratio	Lower	Upper
180	100		
182	74.2	47.2	141.6
145	59.3	14.6	43.8



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

