

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051574.D
 Acq On : 27 Sep 2018 11:00
 Operator : MD\SY
 Sample : J4773-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-092518-E

Quant Time: Sep 27 11:23:08 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	624096	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1029424	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	866437	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	312078	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	452029	57.82	ug/l	0.00
Spiked Amount			Recovery	=	115.64%	
35) Dibromofluoromethane	7.59	113	390972	47.50	ug/l	0.00
Spiked Amount			Recovery	=	95.00%	
50) Toluene-d8	10.09	98	1427516	46.05	ug/l	0.00
Spiked Amount			Recovery	=	92.10%	
62) 4-Bromofluorobenzene	12.40	95	390165	38.91	ug/l	0.00
Spiked Amount			Recovery	=	77.82%	

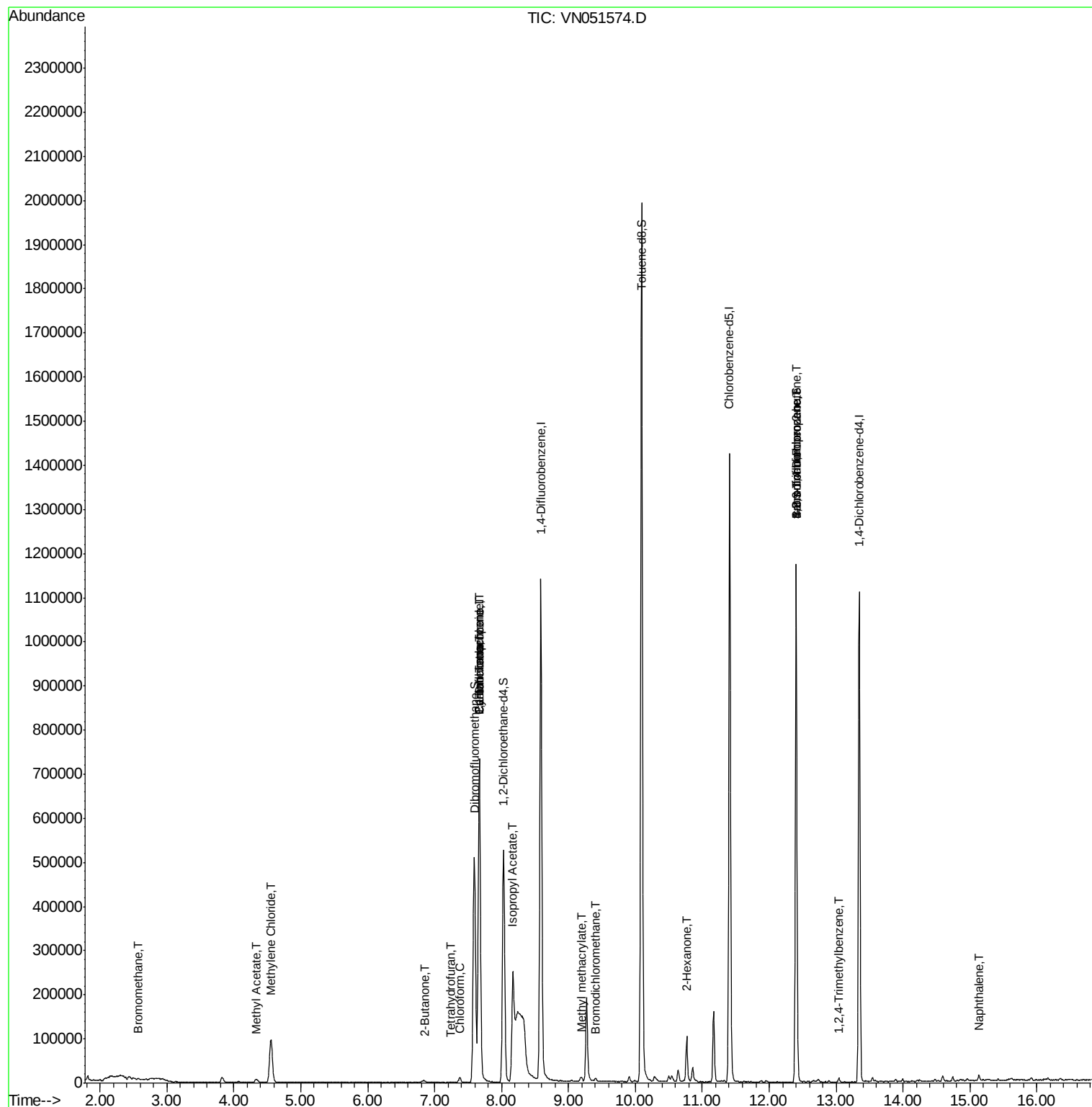
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1213	0.257	ug/l #	72
16) Acetone	3.82	43	20092	Below Cal		92
18) Methyl Acetate	4.34	43	15227	2.557	ug/l #	80
20) Methylene Chloride	4.55	84	73438	9.493	ug/l	98
25) 2-Butanone	6.86	43	3625	1.355	ug/l #	86
29) Tetrahydrofuran	7.23	42	562	0.331	ug/l #	42
30) Chloroform	7.37	83	11468	0.861	ug/l	98
31) Cyclohexane	7.66	56	11797	0.958	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45872	3.848	ug/l #	48
38) Carbon Tetrachloride	7.67	117	56635	4.542	ug/l #	16
43) Isopropyl Acetate	8.17	43	321155	25.912	ug/l #	89
47) Bromodichloromethane	9.40	83	3248	0.273	ug/l	85
48) Methyl methacrylate	9.18	41	6286	1.017	ug/l #	18
59) 2-Hexanone	10.76	43	14957	3.385	ug/l #	58
71) Bromoform	12.40	173	3974	0.692	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	191327	36.931	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	191327	113.560	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.04	105	5983	0.277	ug/l	94
95) Naphthalene	15.13	128	10467	8.801	ug/l #	94

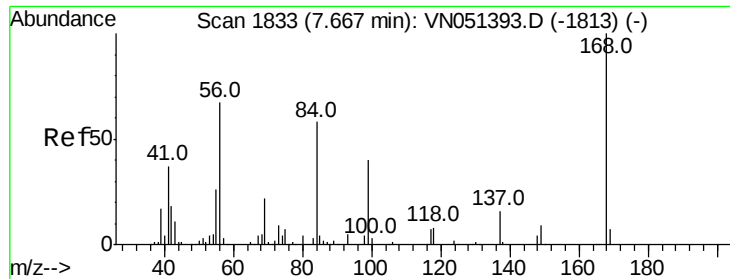
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051574.D

Acq: 27 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampleId :

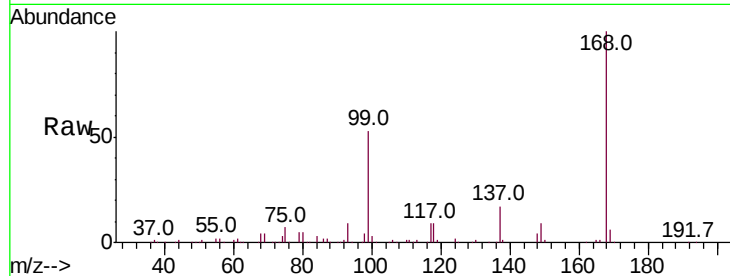
CL-02-092518-E

Tot Ion:168 Resp: 624096

Ion Ratio Lower Upper

168 100

99 52.7 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

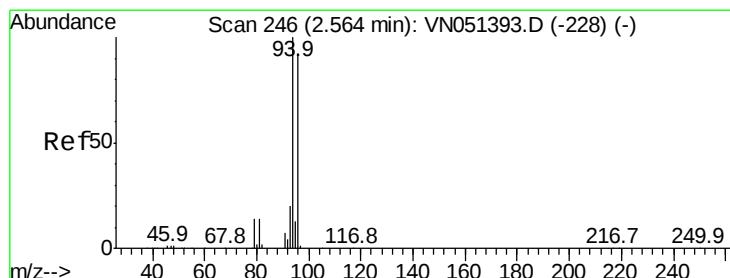
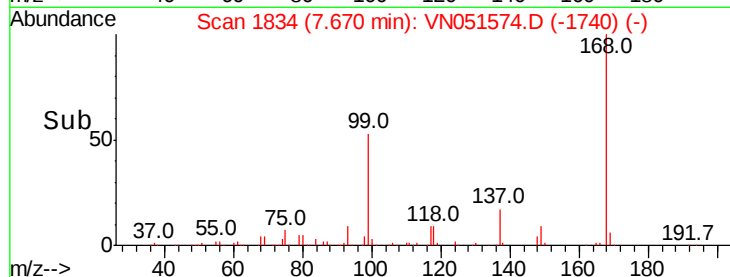
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.257 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051574.D

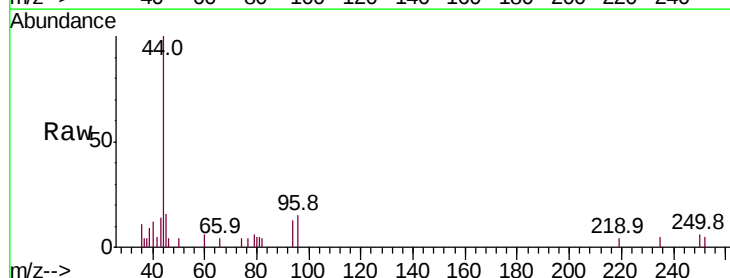
Acq: 27 Sep 2018 11:00

Tgt Ion: 94 Resp: 1213

Ion Ratio Lower Upper

94 100

96 118.4 73.6 110.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

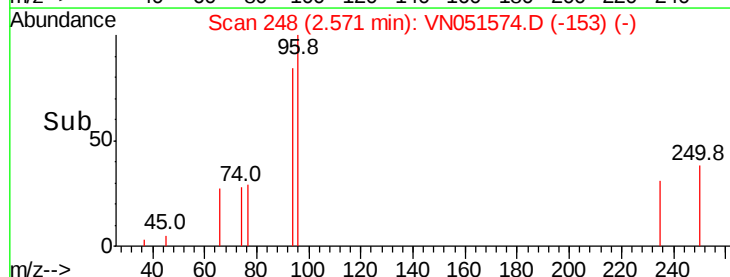
600

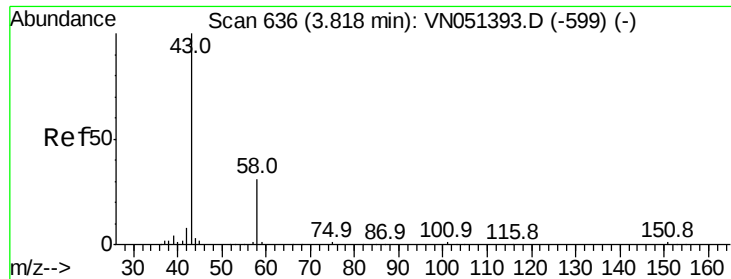
400

200

0

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN051574.D

Acq: 27 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampleId :

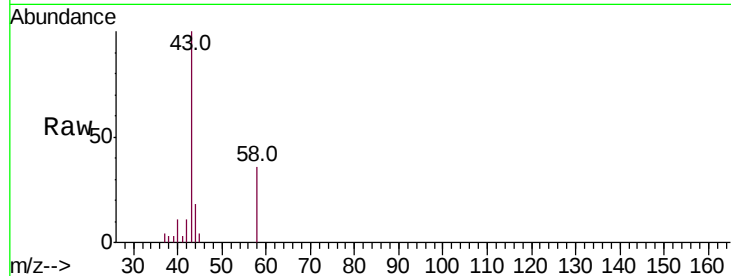
CL-02-092518-E

Tot Ion: 43 Resp: 20092

Ion Ratio Lower Upper

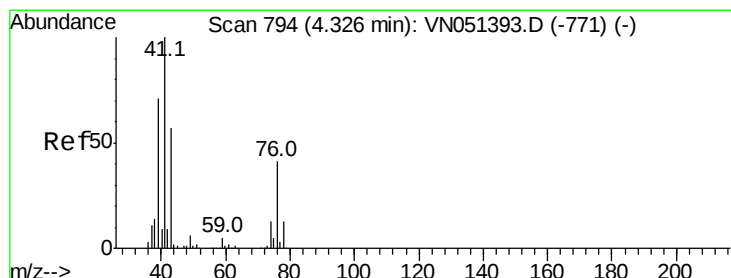
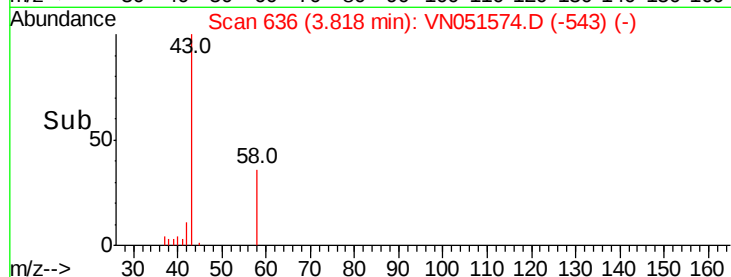
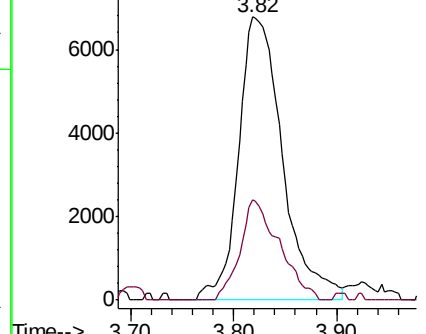
43 100

58 35.5 25.0 37.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 2.557 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051574.D

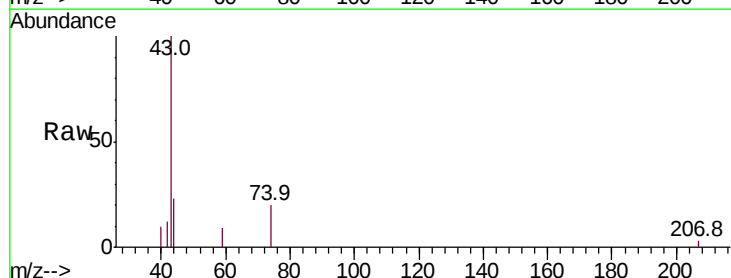
Acq: 27 Sep 2018 11:00

Tgt Ion: 43 Resp: 15227

Ion Ratio Lower Upper

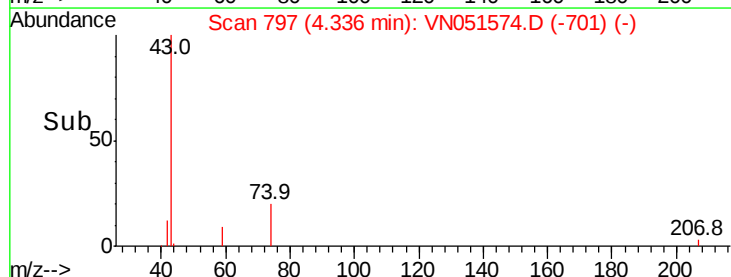
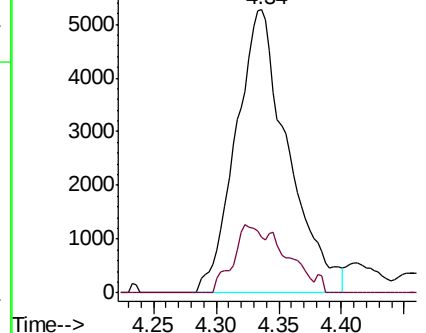
43 100

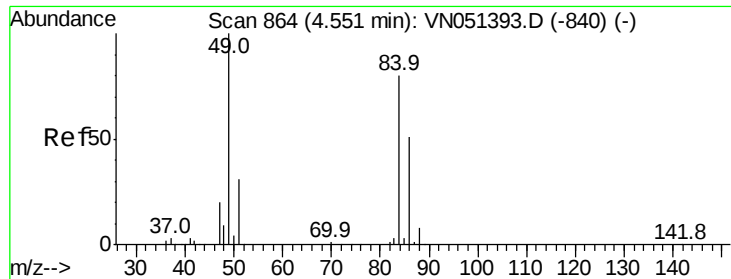
74 13.7 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

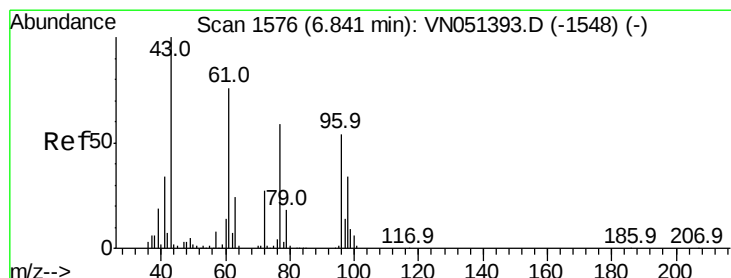
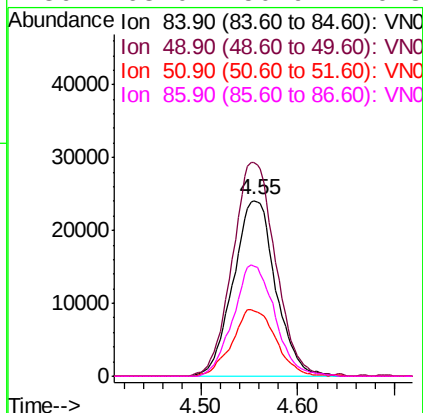
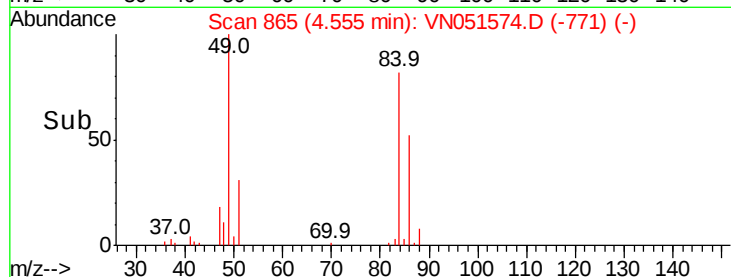
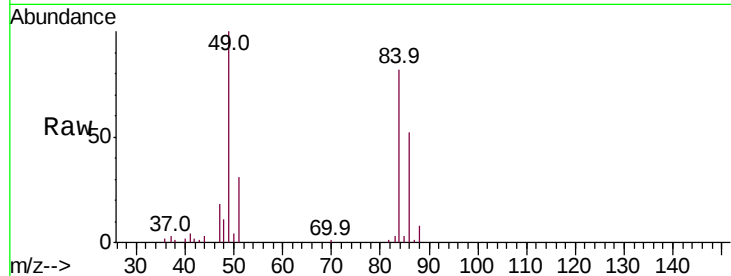




#20
Methylene Chloride
Concen: 9.493 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051574.D
Acq: 27 Sep 2018 11:00

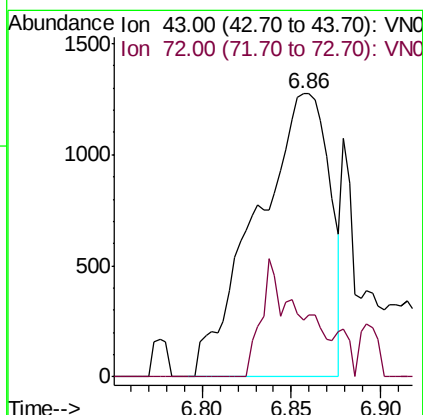
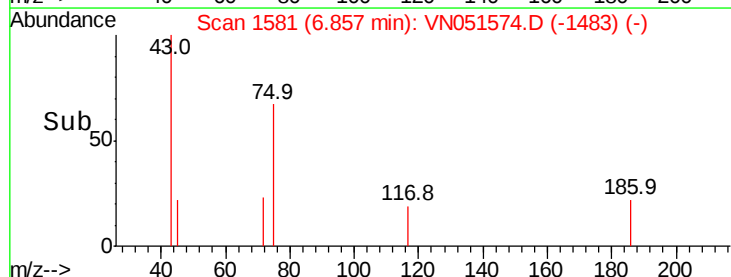
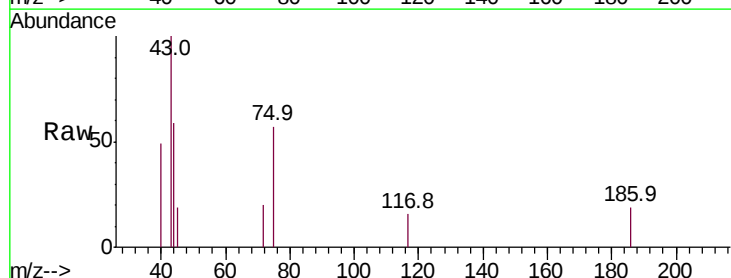
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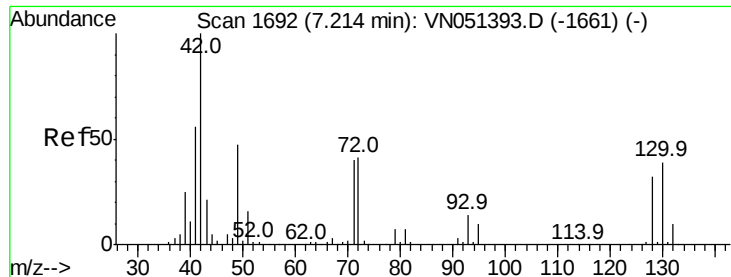
Tot Ion: 84 Resp: 73438
Ion Ratio Lower Upper
84 100
49 121.5 99.9 149.9
51 37.5 31.4 47.2
86 63.0 50.9 76.3



#25
2-Butanone
Concen: 1.355 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN051574.D
Acq: 27 Sep 2018 11:00

Tgt Ion: 43 Resp: 3625
Ion Ratio Lower Upper
43 100
72 19.9 21.8 32.6#

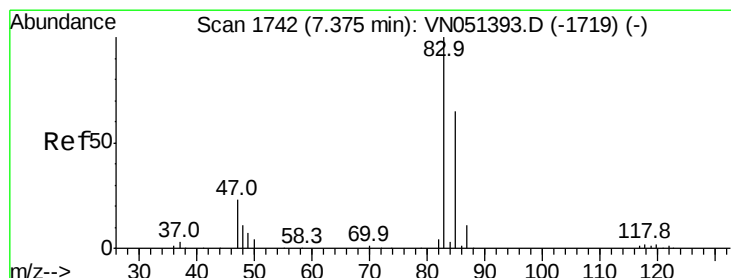
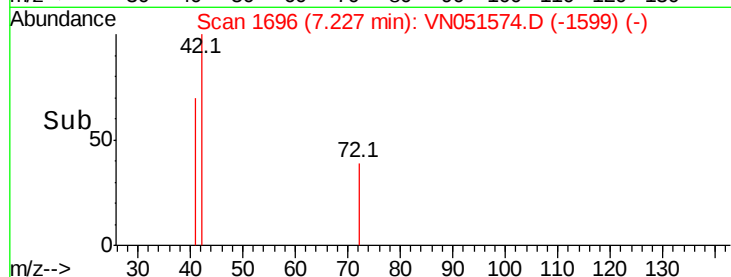
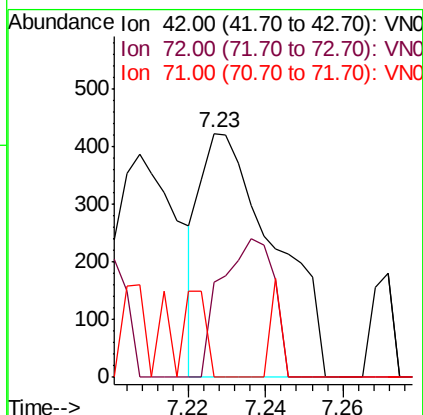
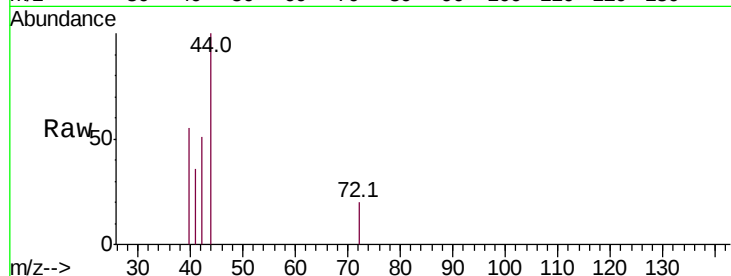




#29
Tetrahydrofuran
Concen: 0.331 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN051574.D
Acq: 27 Sep 2018 11:00

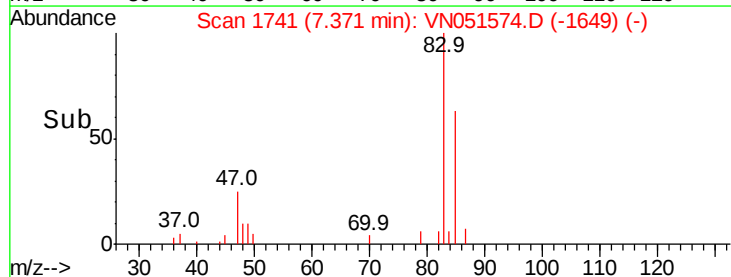
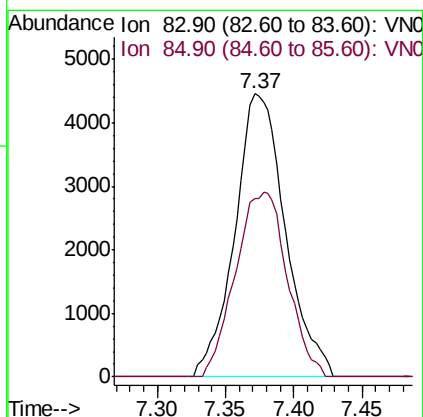
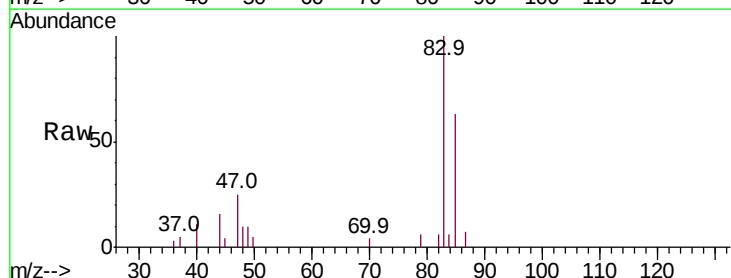
Instrument :
MSVOA_N
ClientSampleId :
CL-02-092518-E

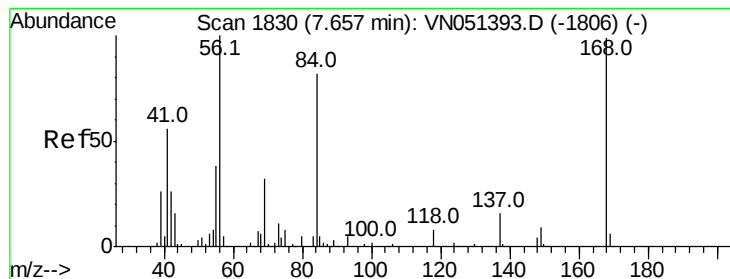
Tot Ion: 42 Resp: 562
Ion Ratio Lower Upper
42 100
72 0.0 34.3 51.5#
71 10.3 32.2 48.4#



#30
Chloroform
Concen: 0.861 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN051574.D
Acq: 27 Sep 2018 11:00

Tgt Ion: 83 Resp: 11468
Ion Ratio Lower Upper
83 100
85 62.8 51.8 77.6





#31

Cyclohexane

Concen: 0.958 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051574.D

Acq: 27 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampled :

CL-02-092518-E

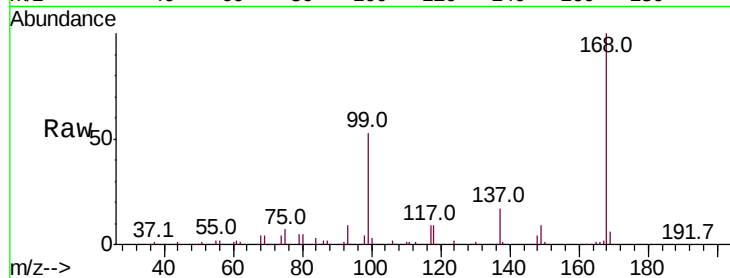
Tot Ion: 56 Resp: 11797

Ion Ratio Lower Upper

56 100

69 183.0 25.8 38.6#

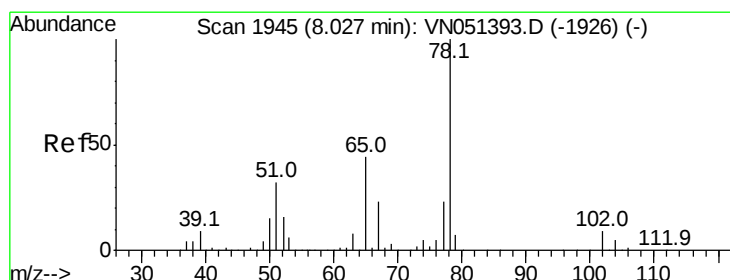
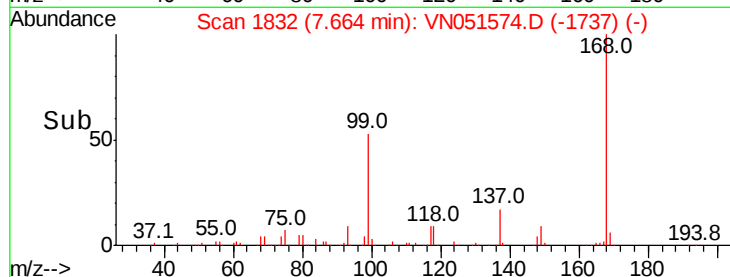
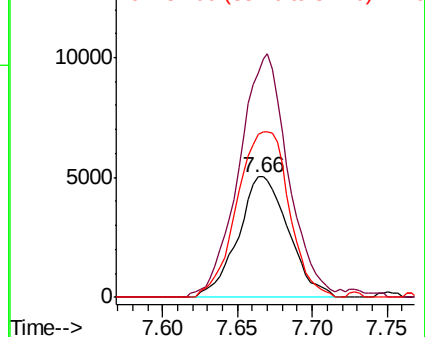
84 135.0 66.0 99.0#



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: 57.819 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051574.D

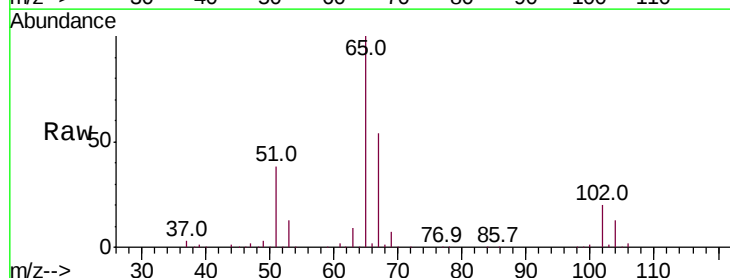
Acq: 27 Sep 2018 11:00

Tgt Ion: 65 Resp: 452029

Ion Ratio Lower Upper

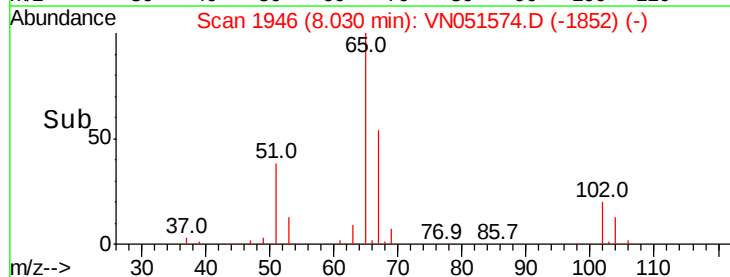
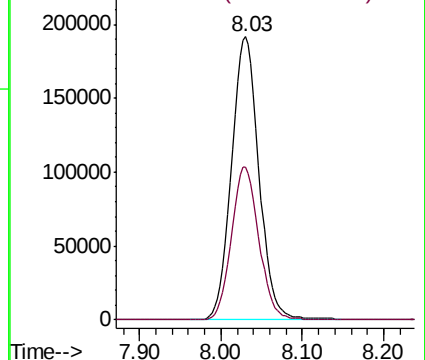
65 100

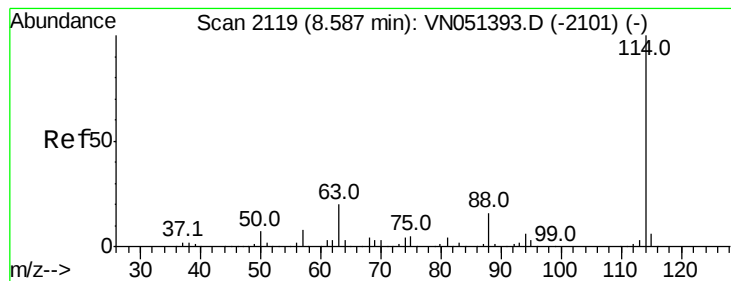
67 54.0 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051574.D

Acq: 27 Sep 2018 11:00

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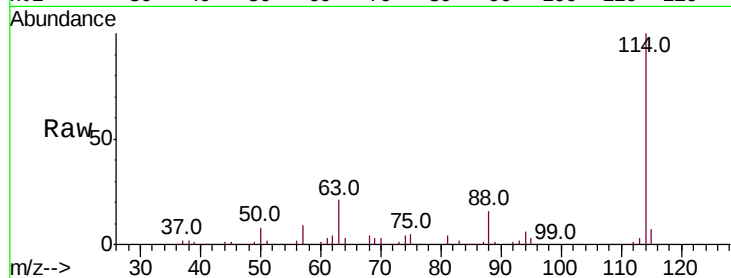
Tot Ion:114 Resp: 1029424

Ion Ratio Lower Upper

114 100

63 21.2 0.0 40.2

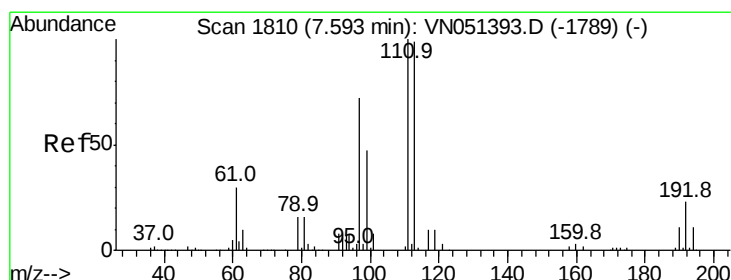
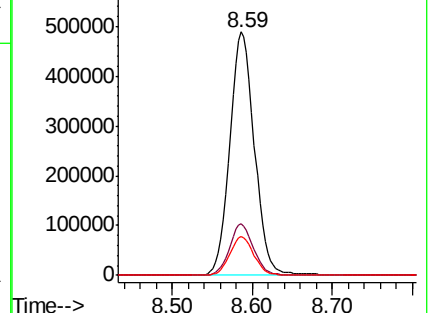
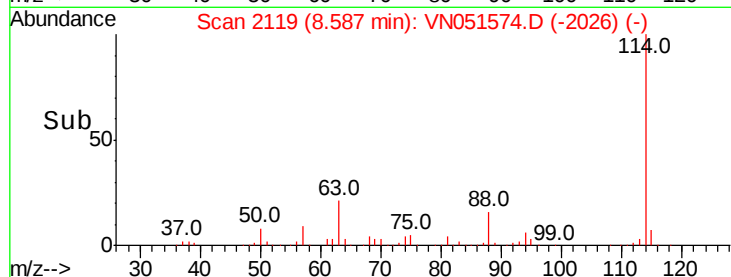
88 15.8 0.0 31.4



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: 47.495 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN051574.D

Acq: 27 Sep 2018 11:00

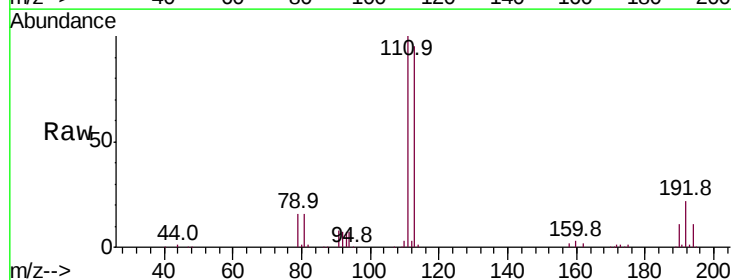
Tgt Ion:113 Resp: 390972

Ion Ratio Lower Upper

113 100

111 104.2 82.6 123.8

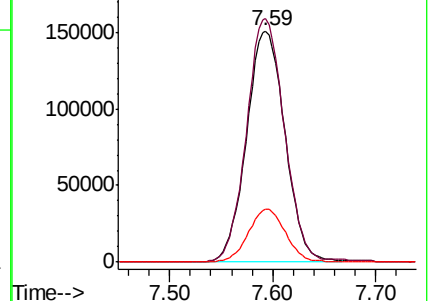
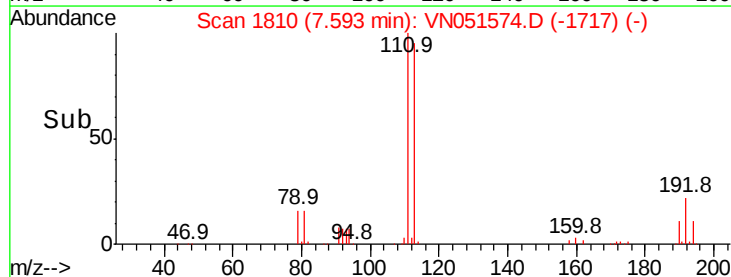
192 22.3 18.0 27.0

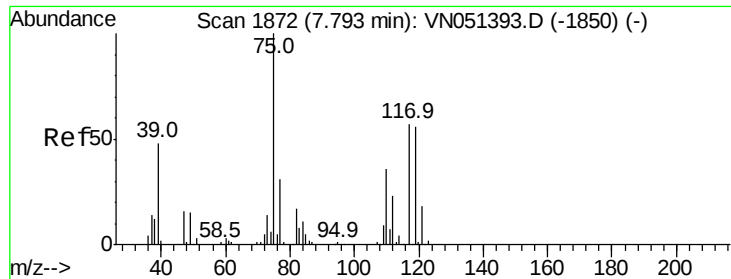


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

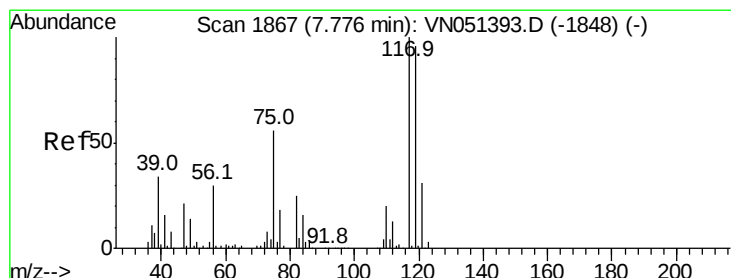
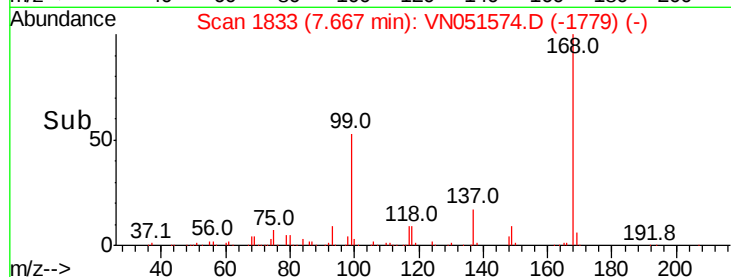
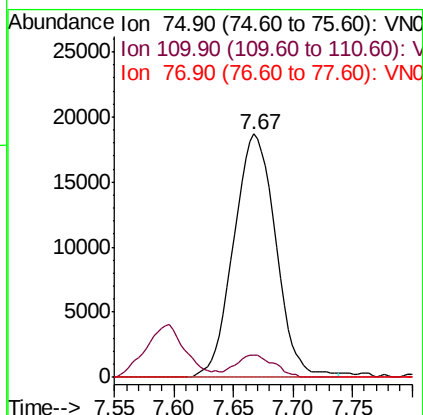
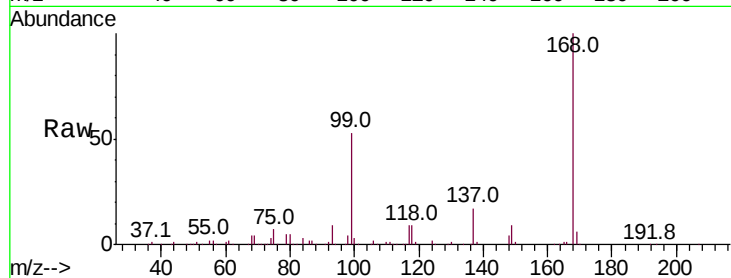




#36
 1,1-Dichloropropene
 Concen: 3.848 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051574.D
 Acq: 27 Sep 2018 11:00

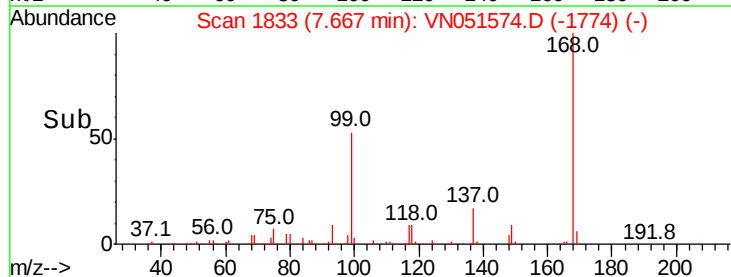
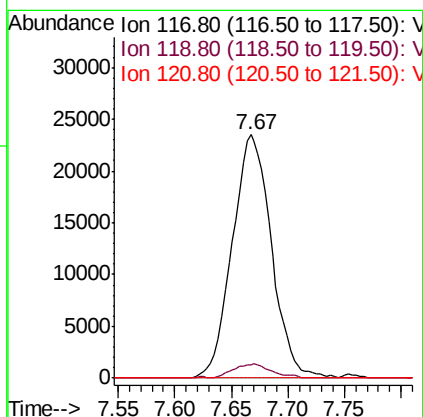
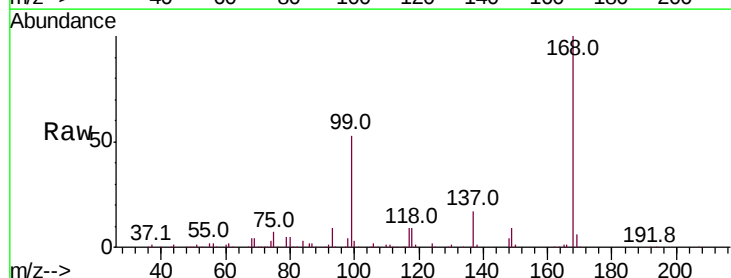
Instrument :
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 CL-02-092518-E

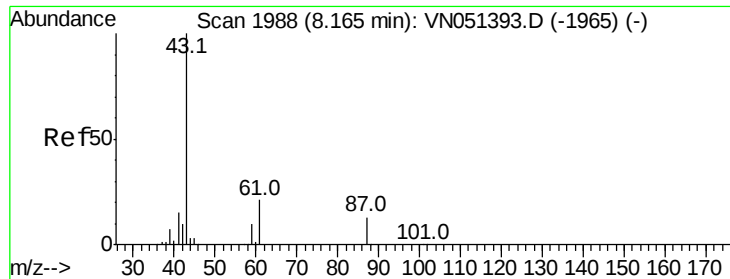
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.5	18.1	54.3#
77	0.0	25.6	38.4#



#38
 Carbon Tetrachloride
 Concen: 4.542 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051574.D
 Acq: 27 Sep 2018 11:00

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.5	76.9	115.3#
121	0.0	24.6	37.0#





#43

Isopropyl Acetate

Concen: 25.912 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051574.D

Acq: 27 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-E

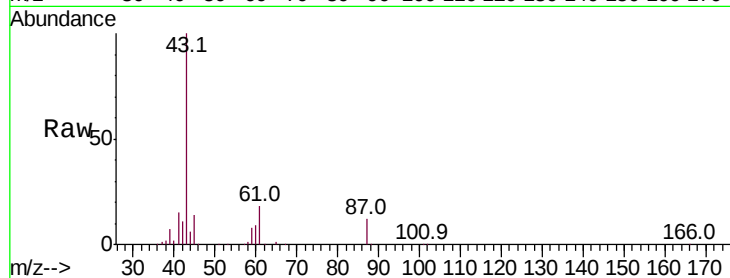
Tot Ion: 43 Resp: 321155

Ion Ratio Lower Upper

43 100

61 15.7 16.8 25.2#

87 9.7 10.7 16.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

150000

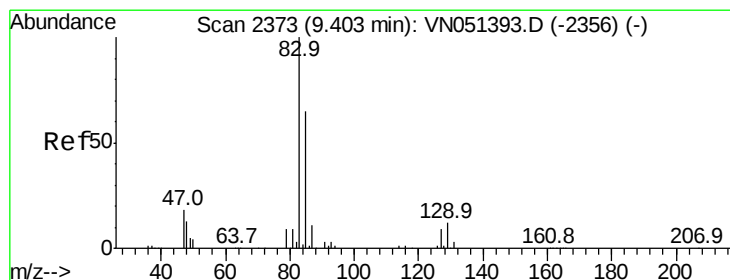
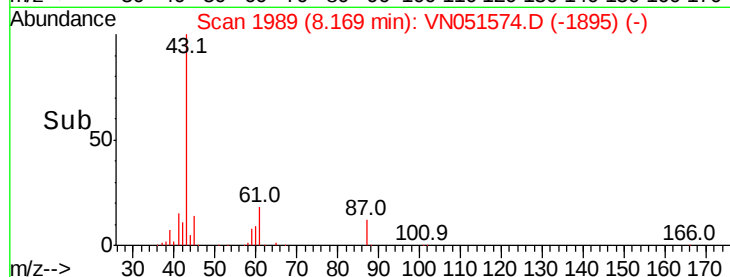
100000

50000

0

8.10 8.15 8.20

Time-->



#47

Bromodichloromethane

Concen: 0.273 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN051574.D

Acq: 27 Sep 2018 11:00

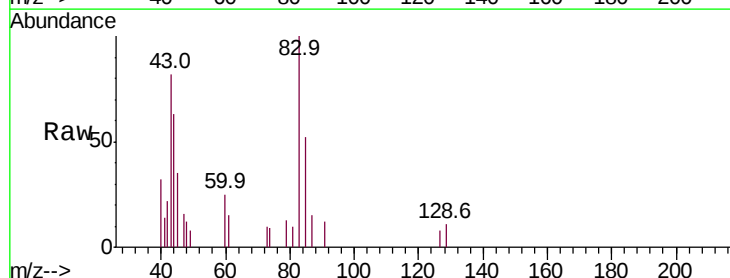
Tgt Ion: 83 Resp: 3248

Ion Ratio Lower Upper

83 100

85 51.9 51.8 77.6

127 8.3 7.4 11.2



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 126.80 (126.50 to 127.50): V

2500

2000

1500

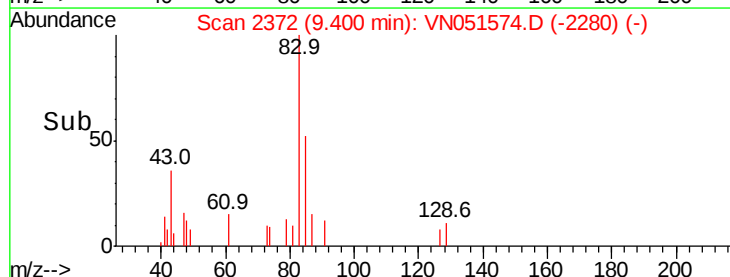
1000

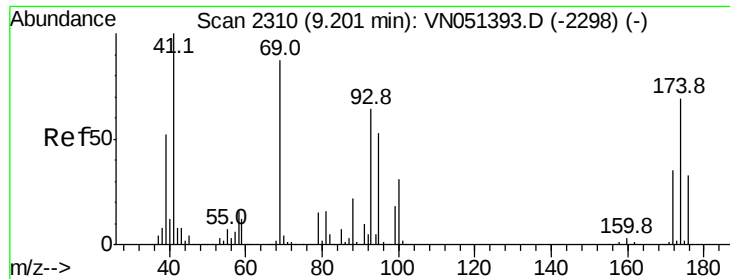
500

0

9.35 9.40 9.45

Time-->

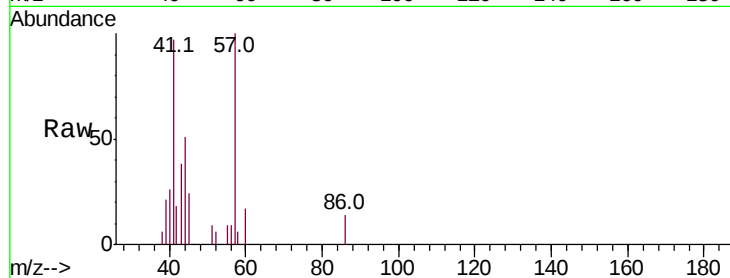




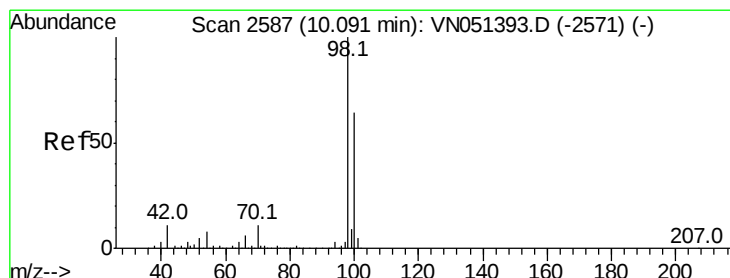
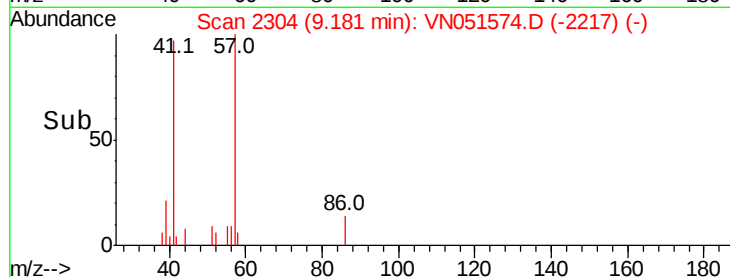
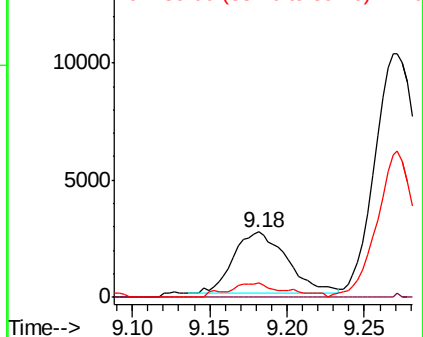
#48
Methvl methacrylate
Concen: 1.017 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051574.D
Acq: 27 Sep 2018 11:00

Instrument :
MSVOA_N
ClientSampleId :
CL-02-092518-E

Tot Ion: 41 Resp: 6286
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 10.5 43.8 65.8#

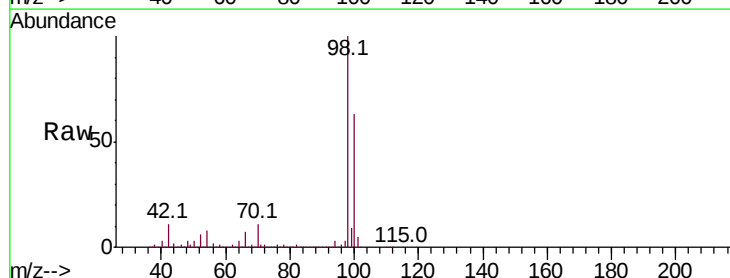


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

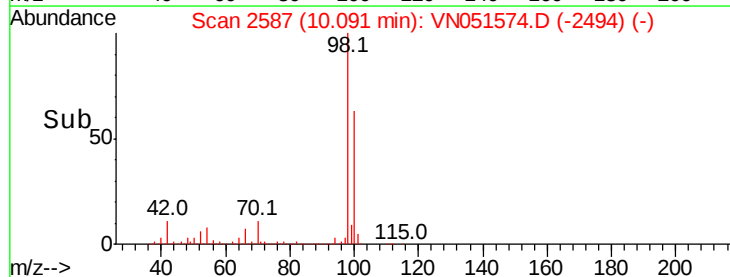
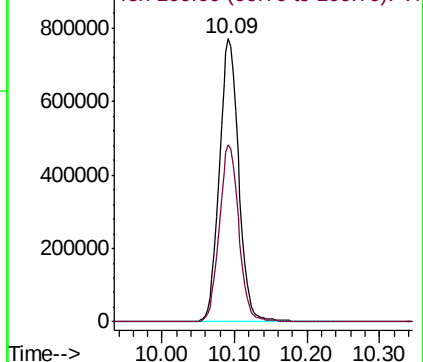


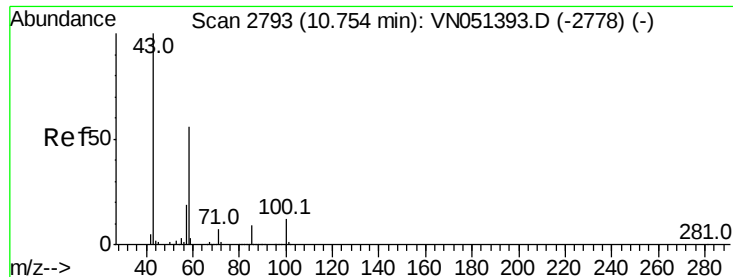
#50
Toluene-d8
Concen: 46.052 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051574.D
Acq: 27 Sep 2018 11:00

Tgt Ion: 98 Resp: 1427516
Ion Ratio Lower Upper
98 100
100 63.0 50.6 75.8



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

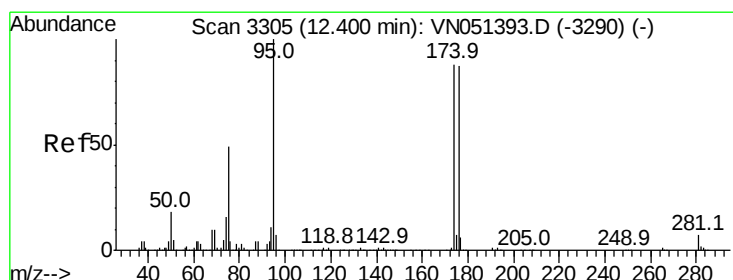
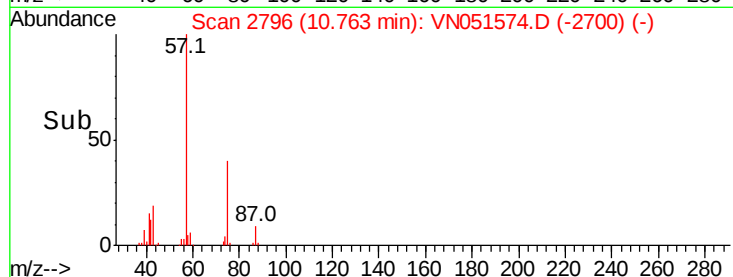
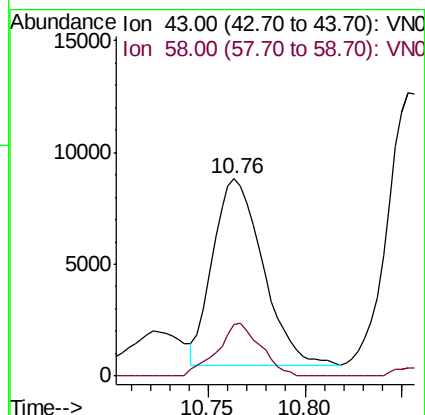
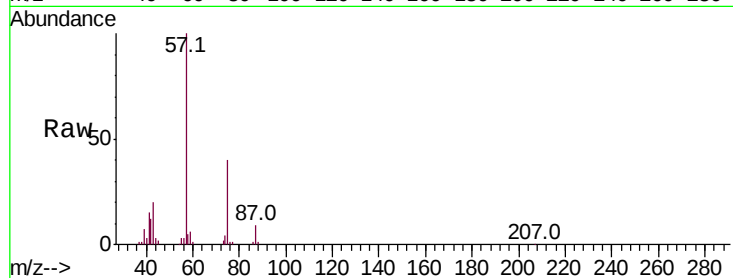




#59
2-Hexanone
Concen: 3.385 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051574.D
Acq: 27 Sep 2018 11:00

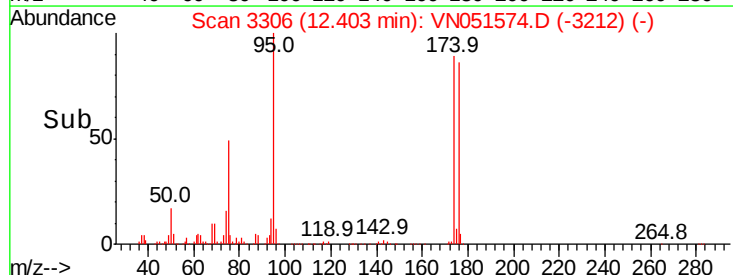
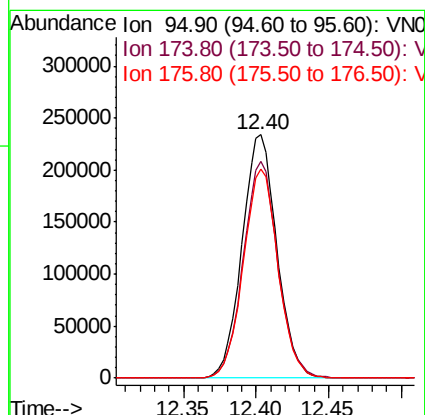
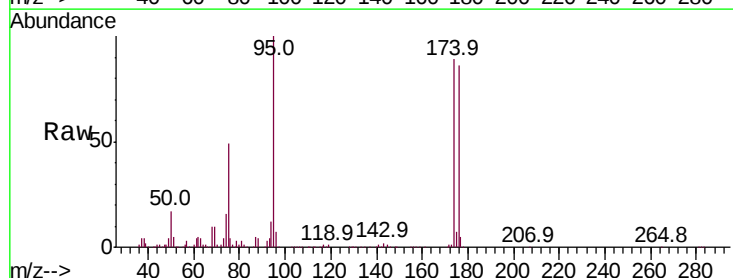
Instrument :
MSVOA_N
ClientSampleId :
CL-02-092518-E

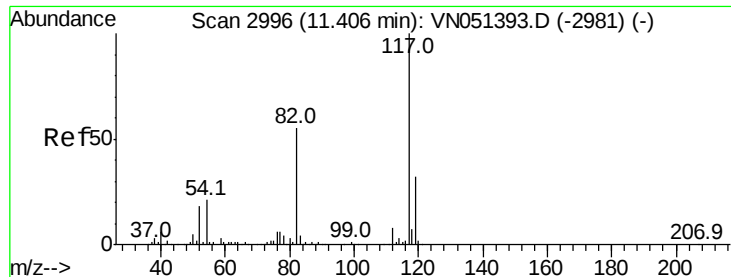
Tot Ion: 43 Resp: 14957
Ion Ratio Lower Upper
43 100
58 24.6 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 38.908 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051574.D
Acq: 27 Sep 2018 11:00

Tgt Ion: 95 Resp: 390165
Ion Ratio Lower Upper
95 100
174 88.7 0.0 181.6
176 85.8 0.0 176.4

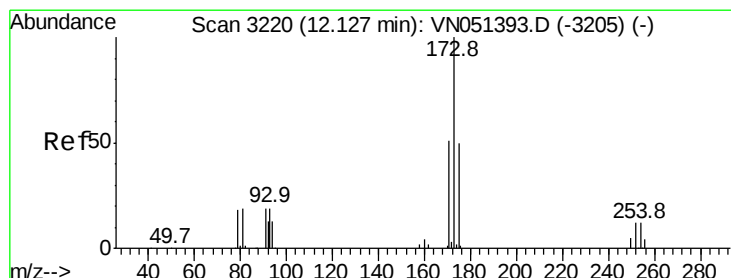
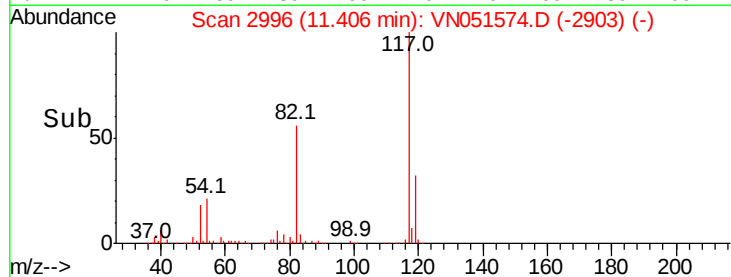
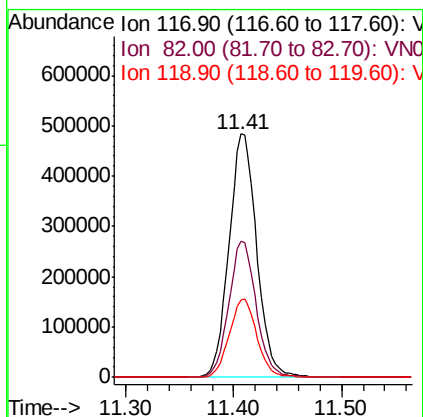
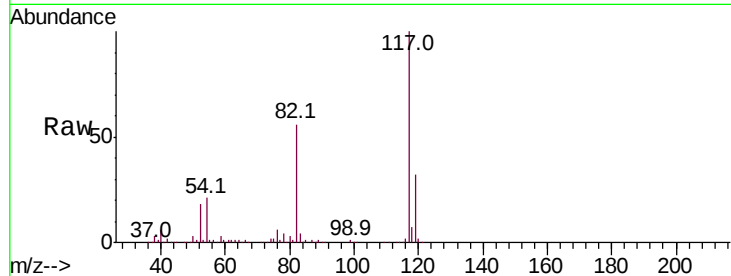




#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.41 min Scan# 2996
 Delta R.T. -0.00 min
 Lab File: VN051574.D
 Acq: 27 Sep 2018 11:00

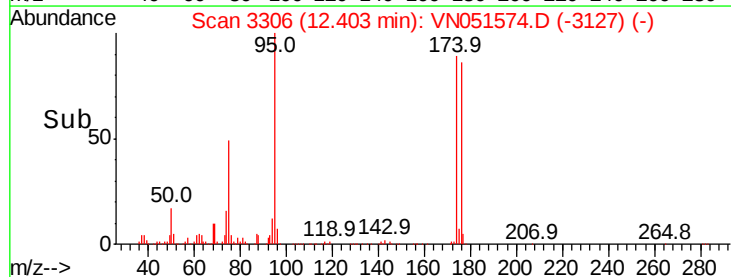
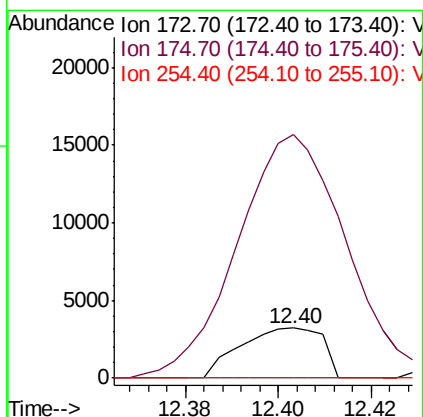
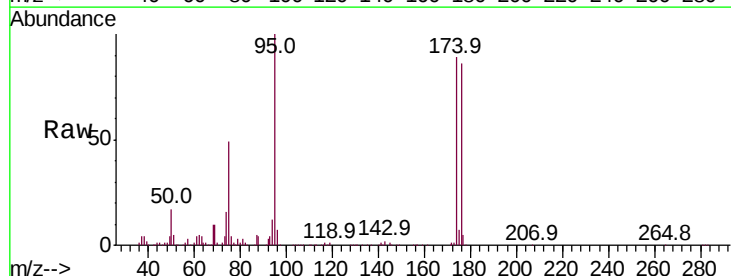
Instrument :
 MSVOA_N
 ClientSampleId :
 CL-02-092518-E

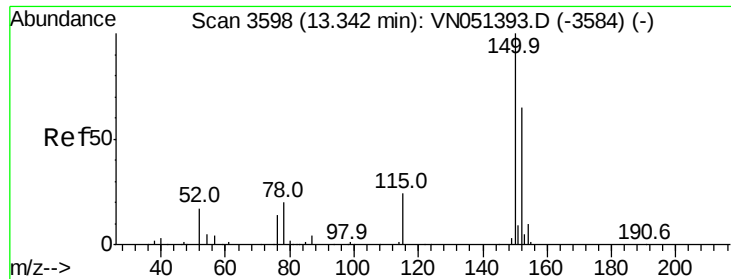
Tot Ion:117 Resp: 866437
 Ion Ratio Lower Upper
 117 100
 82 56.1 44.2 66.2
 119 31.7 25.9 38.9



#71
 Bromoform
 Concen: 0.692 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.28 min
 Lab File: VN051574.D
 Acq: 27 Sep 2018 11:00

Tgt Ion:173 Resp: 3974
 Ion Ratio Lower Upper
 173 100
 175 548.7 24.8 74.3#
 254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051574.D

Acq: 27 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-E

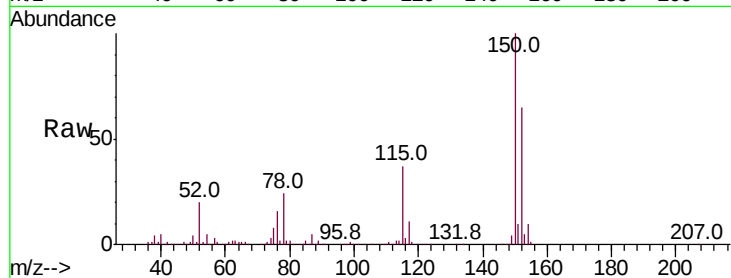
Tot Ion:152 Resp: 312078

Ion Ratio Lower Upper

152 100

115 57.6 28.3 84.9

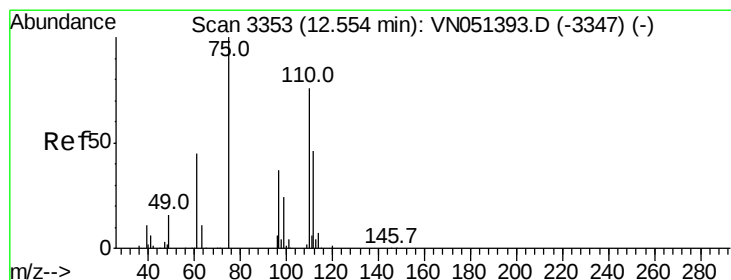
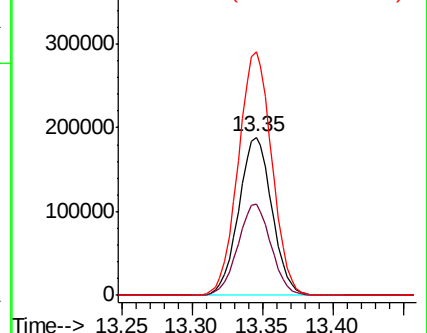
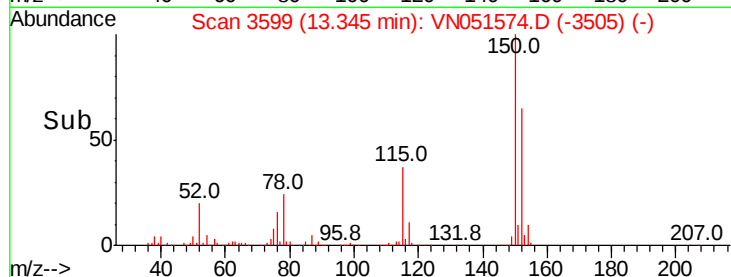
150 155.7 0.0 353.6



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: 36.931 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051574.D

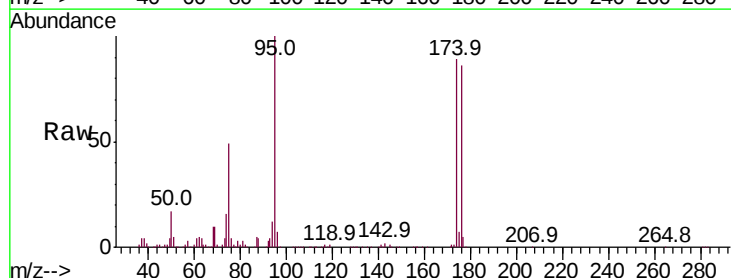
Acq: 27 Sep 2018 11:00

Tgt Ion: 75 Resp: 191327

Ion Ratio Lower Upper

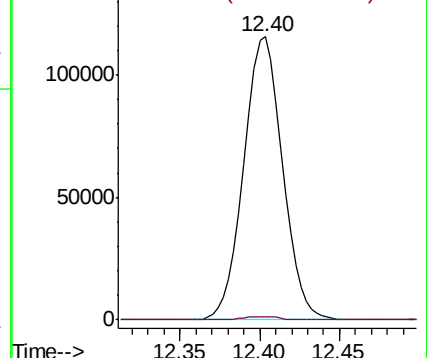
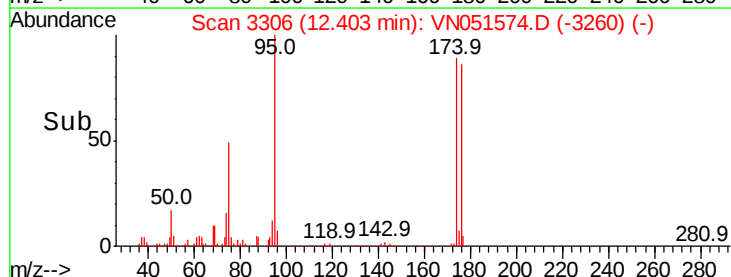
75 100

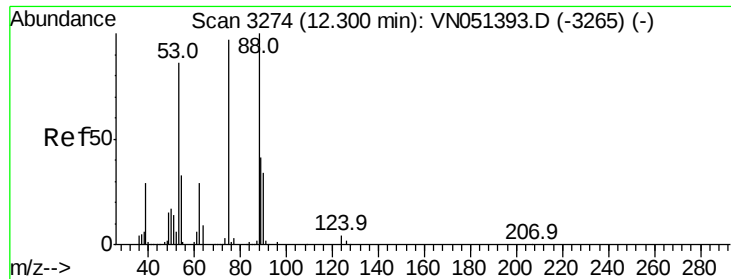
77 1.0 0.0 0.0#



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: 113.560 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051574.D

Acq: 27 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-E

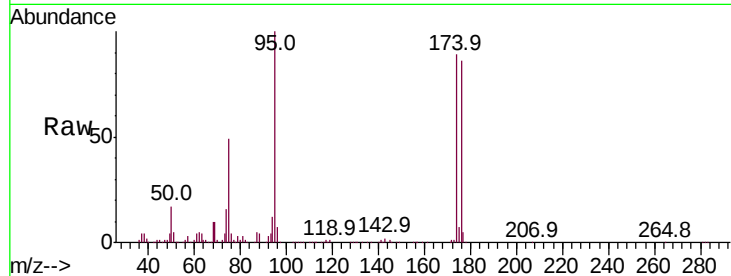
Tot Ion: 75 Resp: 191327

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

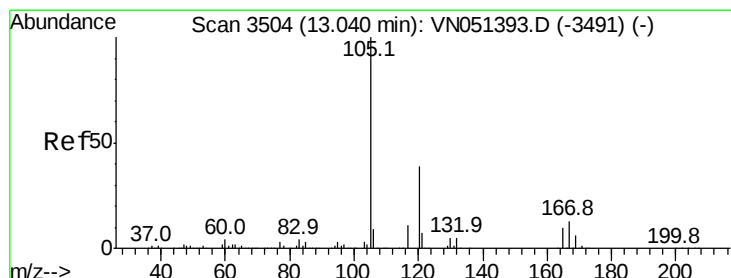
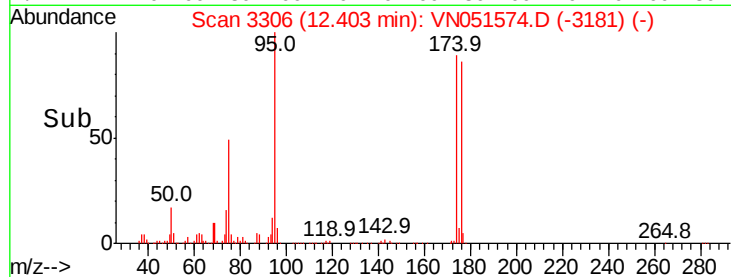
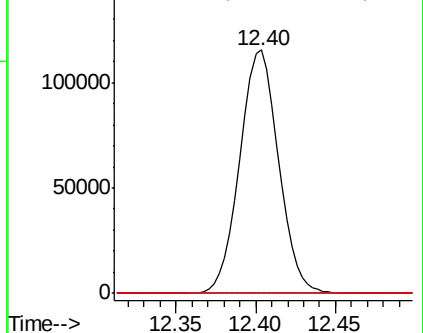
89 0.0 36.7 55.1#



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: 0.277 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN051574.D

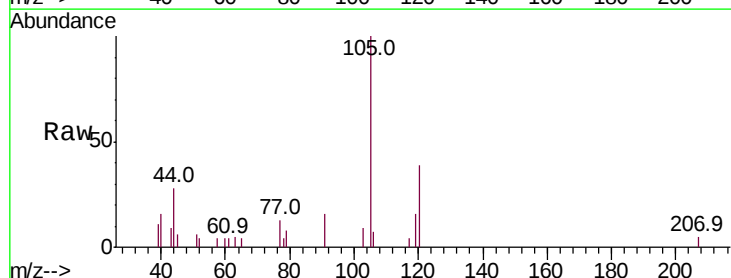
Acq: 27 Sep 2018 11:00

Tgt Ion: 105 Resp: 5983

Ion Ratio Lower Upper

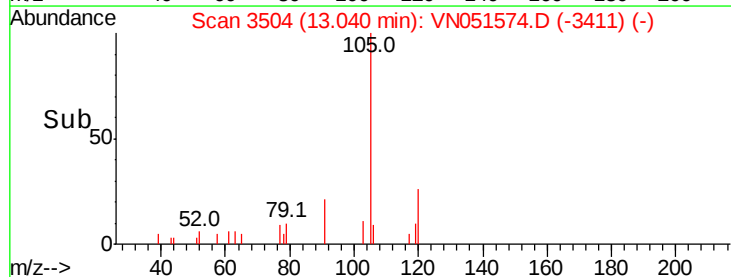
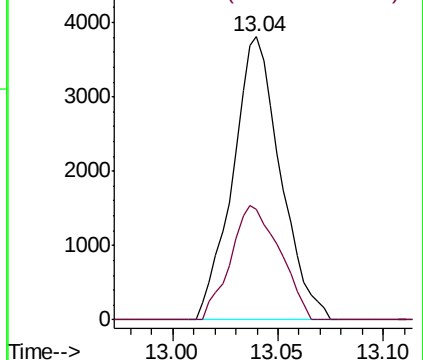
105 100

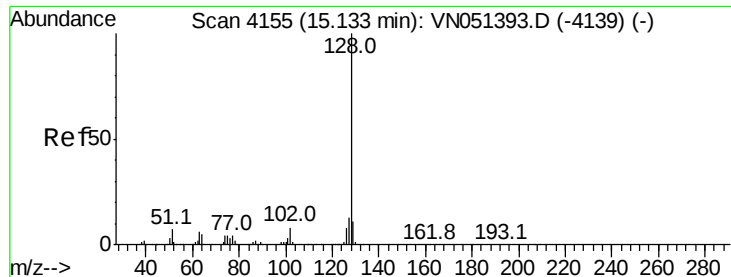
120 41.6 22.9 68.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 8.801 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051574.D

Acq: 27 Sep 2018 11:00

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-E

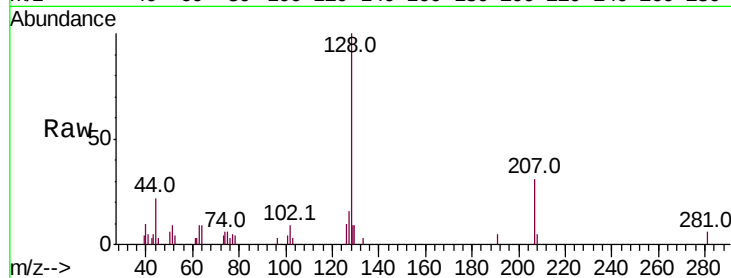
Tot Ion:128 Resp: 10467

Ion Ratio Lower Upper

128 100

127 15.8 10.5 15.7#

129 9.1 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

