

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051575.D
 Acq On : 27 Sep 2018 11:24
 Operator : MD\SY
 Sample : J4773-18
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 1

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

Quant Time: Sep 27 12:03:16 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	635265	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1032272	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	876923	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	332592	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	457900	57.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.08%	
35) Dibromofluoromethane	7.59	113	398603	48.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.58%	
50) Toluene-d8	10.09	98	1436252	46.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.42%	
62) 4-Bromofluorobenzene	12.40	95	392700	39.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	78.10%	

Target Compounds

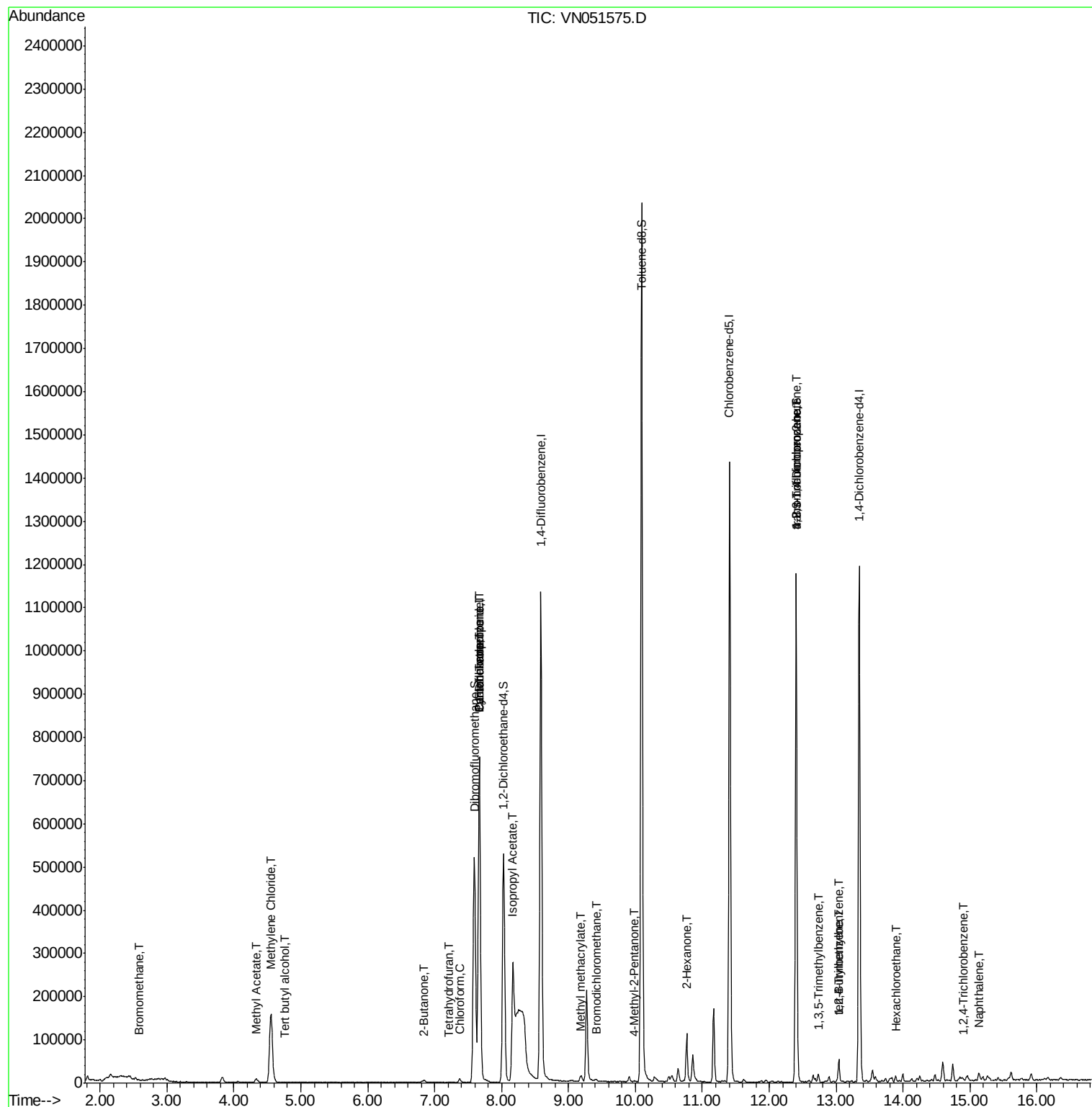
					Qvalue	
5) Bromomethane	2.57	94	912	0.205	ug/l	90
11) Tert butyl alcohol	4.75	59	111	0.247	ug/l #	78
16) Acetone	3.82	43	19853	Below	Cal	99
18) Methyl Acetate	4.34	43	18064	2.981	ug/l #	89
20) Methylene Chloride	4.55	84	120002	15.239	ug/l	96
25) 2-Butanone	6.85	43	4537	1.666	ug/l #	81
29) Tetrahydrofuran	7.21	42	484	0.280	ug/l #	58
30) Chloroform	7.38	83	8445	0.623	ug/l	91
31) Cyclohexane	7.67	56	12158	0.970	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	46055	3.853	ug/l #	48
38) Carbon Tetrachloride	7.67	117	58907	4.711	ug/l #	16
43) Isopropyl Acetate	8.17	43	359591	28.933	ug/l #	88
47) Bromodichloromethane	9.40	83	2548	0.214	ug/l #	86
48) Methyl methacrylate	9.18	41	8071	1.303	ug/l #	20
51) 4-Methyl-2-Pentanone	9.98	43	2052	0.300	ug/l #	77
59) 2-Hexanone	10.77	43	15985	3.608	ug/l #	58
76) 1,2,3-Trichloropropane	12.40	75	193897	35.118	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7712	0.337	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	193897	107.987	ug/l #	12
83) tert-Butylbenzene	13.04	119	4253	0.209	ug/l #	73
84) 1,2,4-Trimethylbenzene	13.04	105	26926	1.168	ug/l	97
90) Hexachloroethane	13.89	117	1014	0.213	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.91	180	71	5.991	ug/l #	1
95) Naphthalene	15.14	128	15163	9.073	ug/l #	95

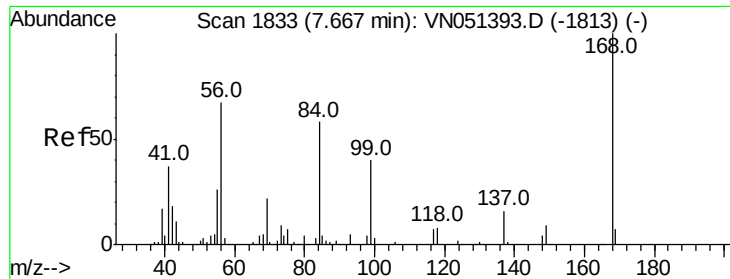
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Sep 24 06:41:32 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051575.D

Acq: 27 Sep 2018 11:24

Instrument :

MSVOA_N

ClientSampleId :

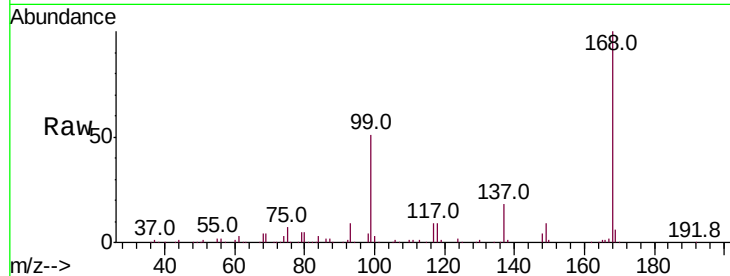
CL-02-092518-D

Tot Ion:168 Resp: 635265

Ion Ratio Lower Upper

168 100

99 50.8 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

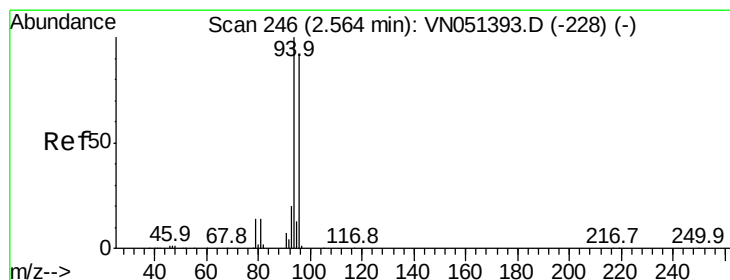
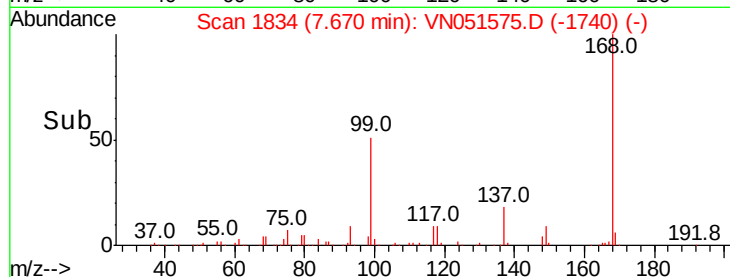
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.205 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051575.D

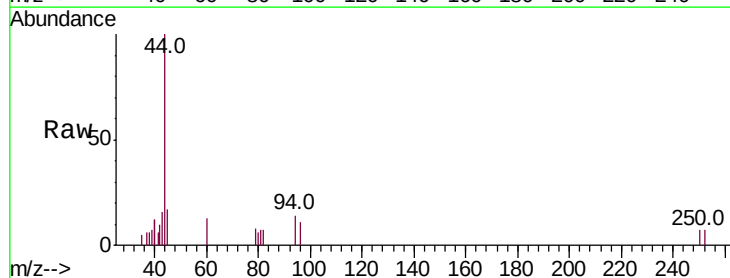
Acq: 27 Sep 2018 11:24

Tgt Ion: 94 Resp: 912

Ion Ratio Lower Upper

94 100

96 82.3 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

400

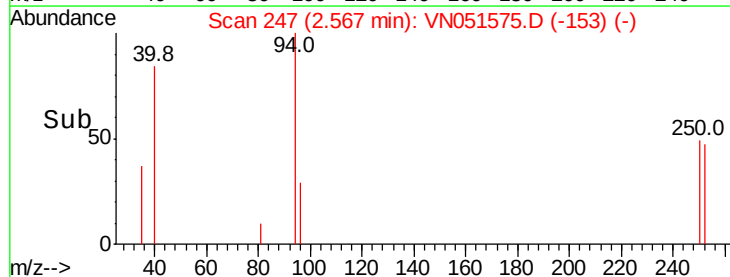
300

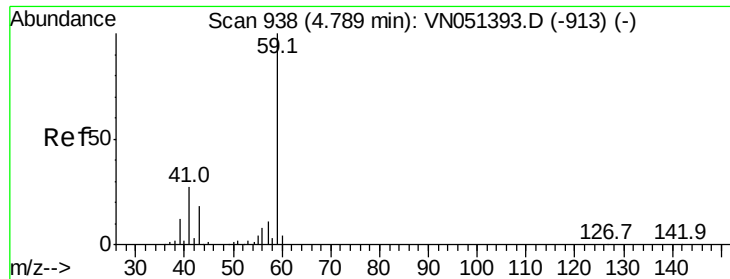
200

100

0

Time-->

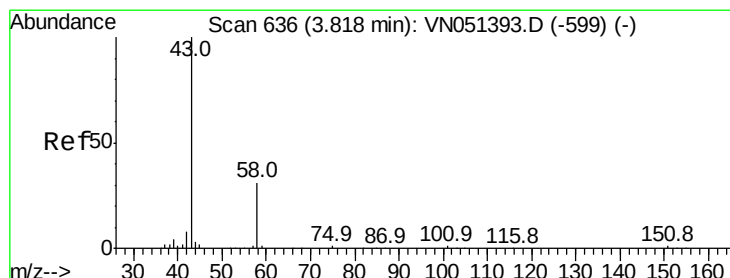
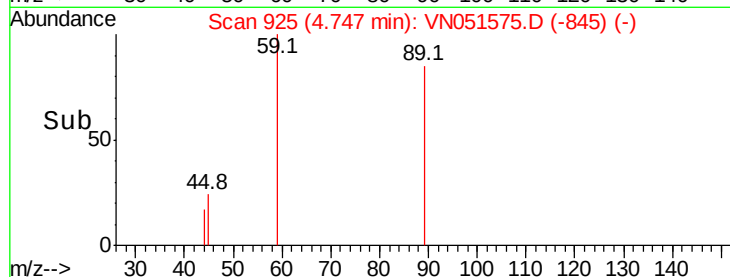
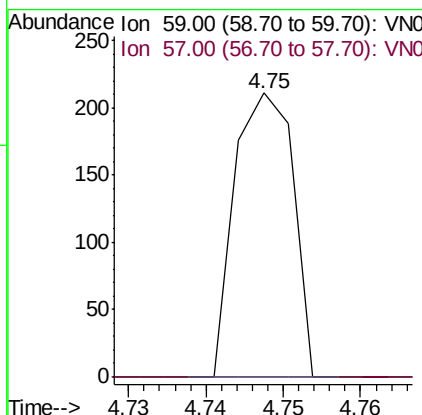
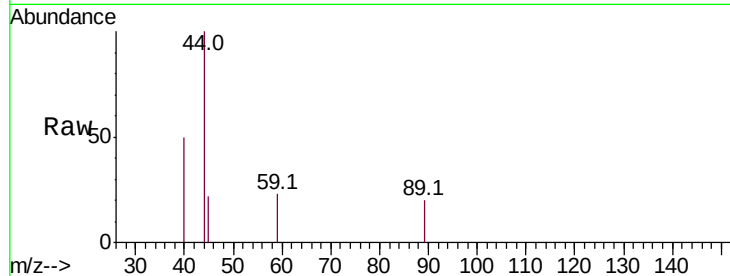




#11
Tert butyl alcohol
Concen: 0.247 ug/l
RT: 4.75 min Scan# 925
Delta R.T. -0.04 min
Lab File: VN051575.D
Acq: 27 Sep 2018 11:24

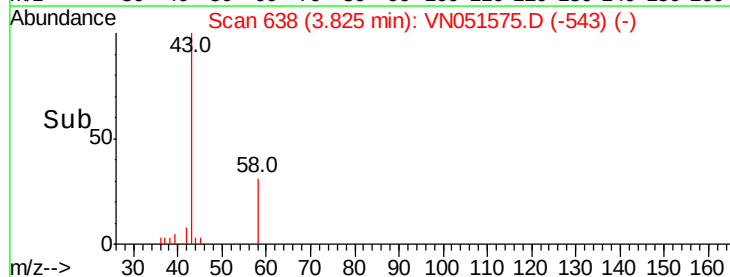
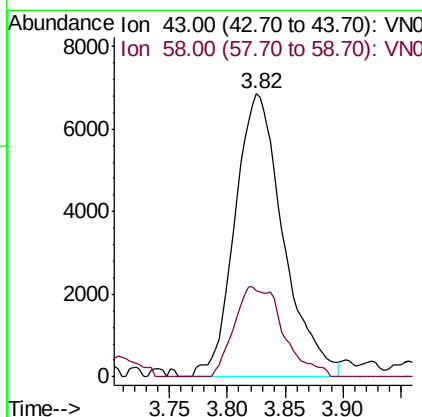
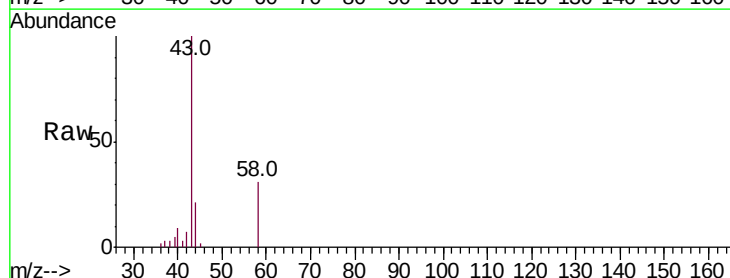
Instrument :
MSVOA_N
ClientSampleId :
CL-02-092518-D

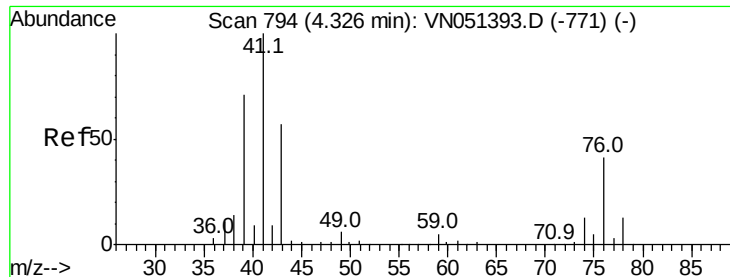
Tot Ion: 59 Resp: 111
Ion Ratio Lower Upper
59 100
57 0.0 6.2 9.2#



#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN051575.D
Acq: 27 Sep 2018 11:24

Tgt Ion: 43 Resp: 19853
Ion Ratio Lower Upper
43 100
58 30.5 25.0 37.4

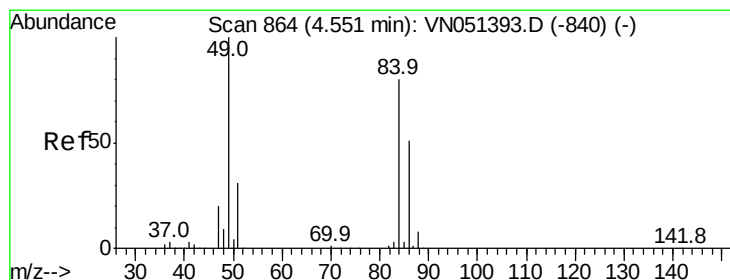
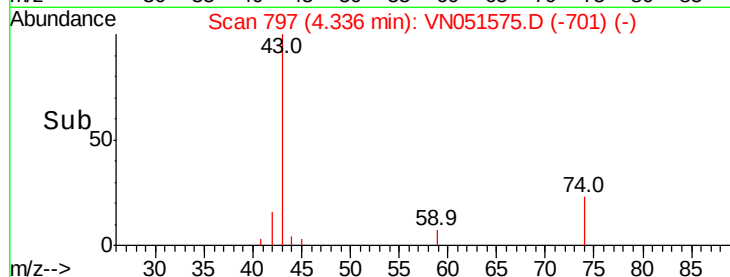
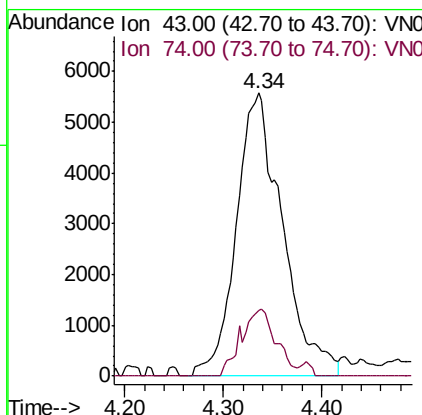
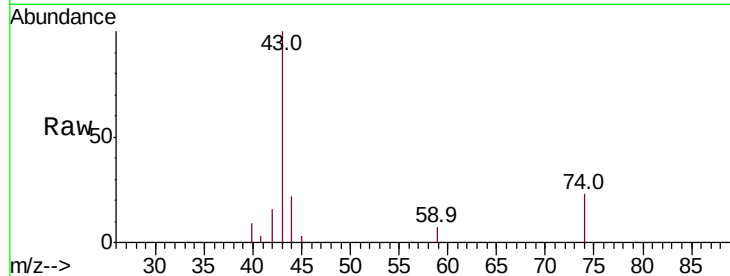




#18
Methvl Acetate
Concen: 2.981 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051575.D
Acq: 27 Sep 2018 11:24

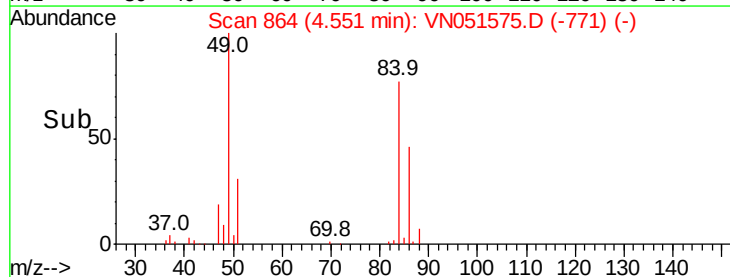
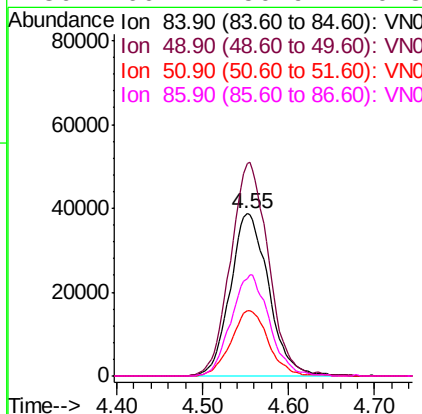
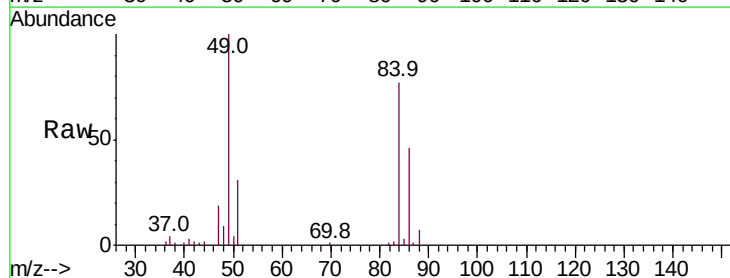
Instrument :
MSVOA_N
ClientSampleId :
CL-02-092518-D

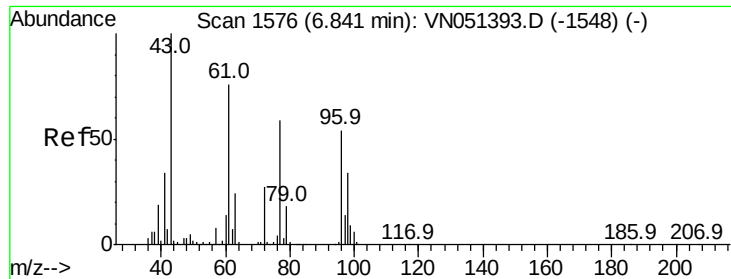
Tot Ion: 43 Resp: 18064
Ion Ratio Lower Upper
43 100
74 17.9 18.8 28.2#



#20
Methylene Chloride
Concen: 15.239 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051575.D
Acq: 27 Sep 2018 11:24

Tgt Ion: 84 Resp: 120002
Ion Ratio Lower Upper
84 100
49 130.7 99.9 149.9
51 40.1 31.4 47.2
86 60.2 50.9 76.3





#25

2-Butanone

Concen: 1.666 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN051575.D

Acq: 27 Sep 2018 11:24

Instrument :

MSVOA_N

ClientSampleId :

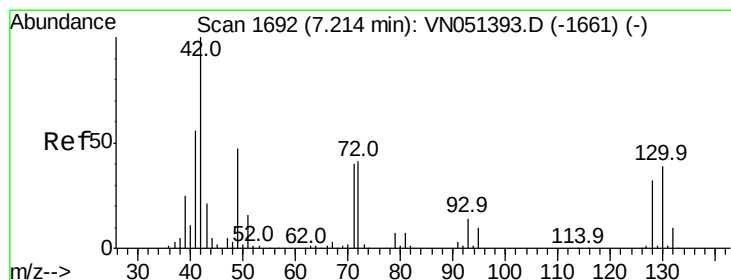
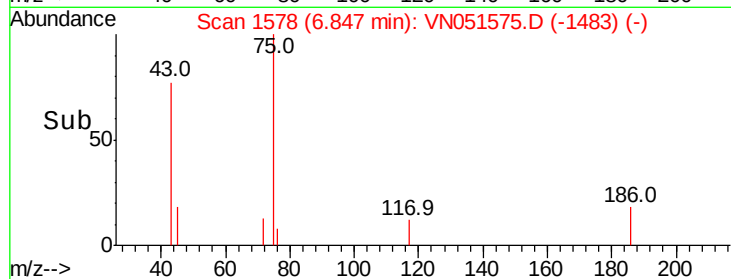
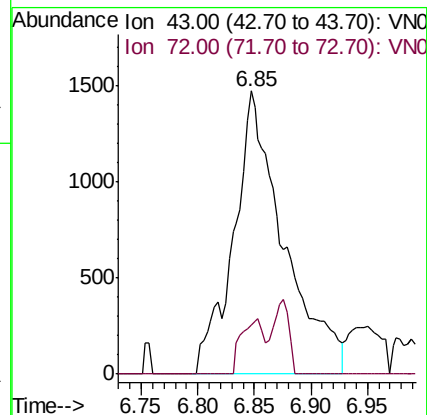
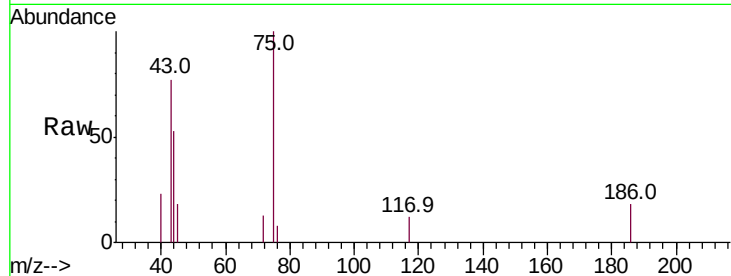
CL-02-092518-D

Tot Ion: 43 Resp: 4537

Ion Ratio Lower Upper

43 100

72 17.3 21.8 32.6#



#29

Tetrahydrofuran

Concen: 0.280 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. -0.00 min

Lab File: VN051575.D

Acq: 27 Sep 2018 11:24

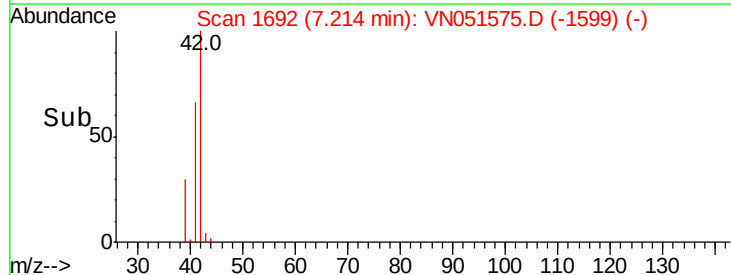
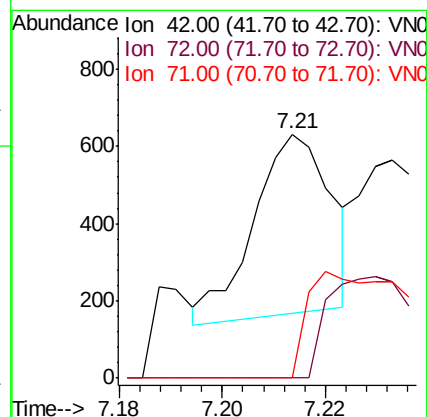
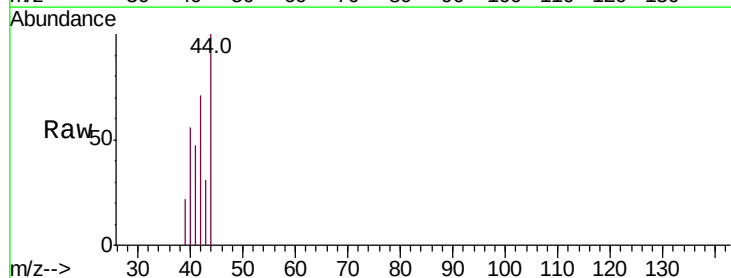
Tgt Ion: 42 Resp: 484

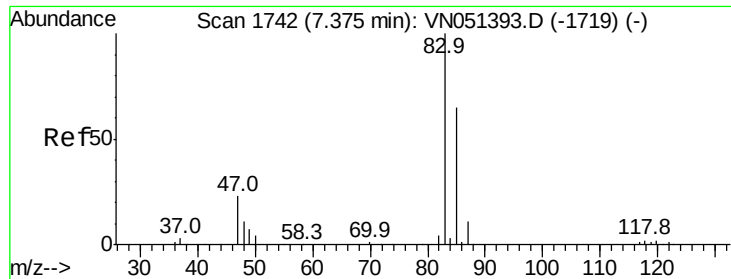
Ion Ratio Lower Upper

42 100

72 62.2 34.3 51.5#

71 74.6 32.2 48.4#

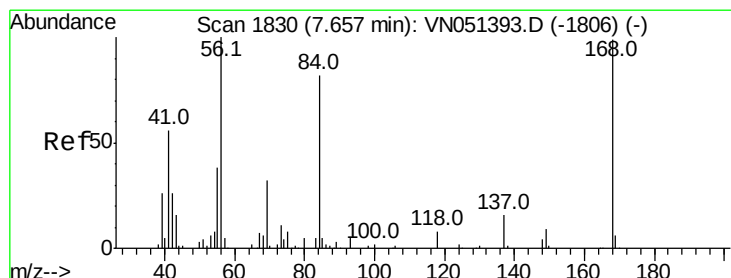
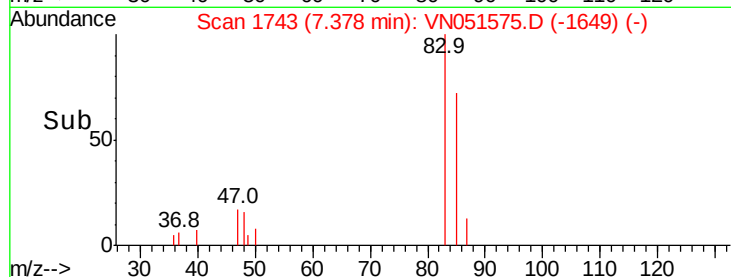
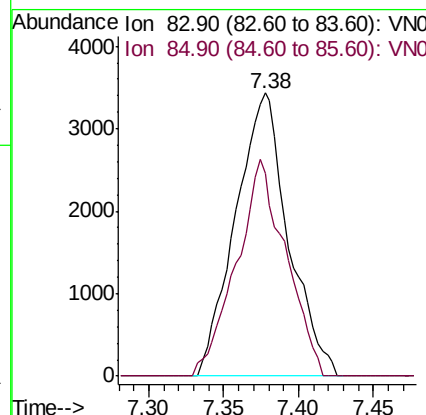
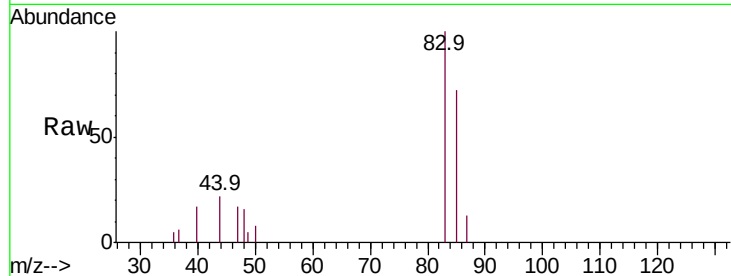




#30
Chloroform
Concen: 0.623 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.00 min
Lab File: VN051575.D
Acq: 27 Sep 2018 11:24

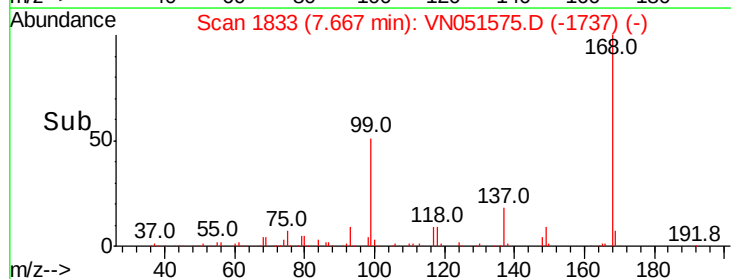
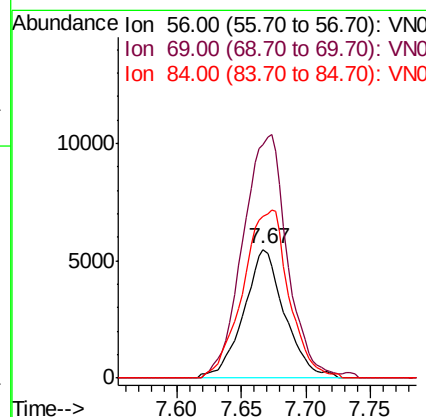
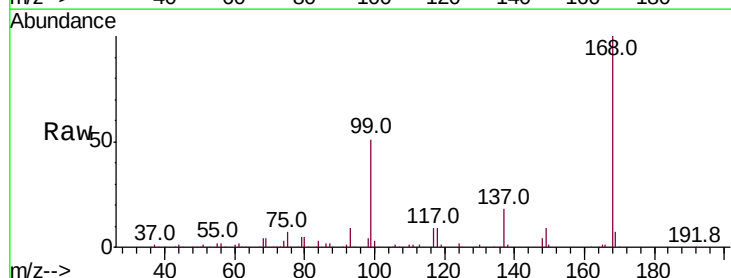
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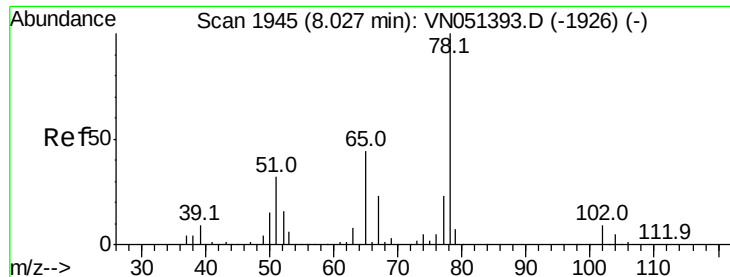
Tot Ion: 83 Resp: 8445
Ion Ratio Lower Upper
83 100
85 71.8 51.8 77.6



#31
Cyclohexane
Concen: 0.970 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051575.D
Acq: 27 Sep 2018 11:24

Tgt Ion: 56 Resp: 12158
Ion Ratio Lower Upper
56 100
69 181.8 25.8 38.6#
84 126.1 66.0 99.0#

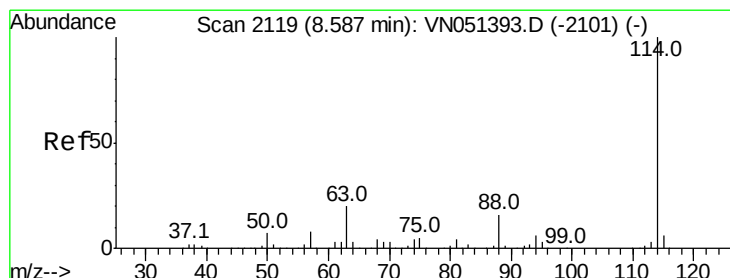
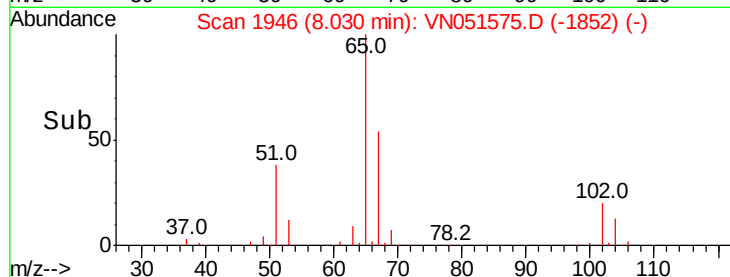
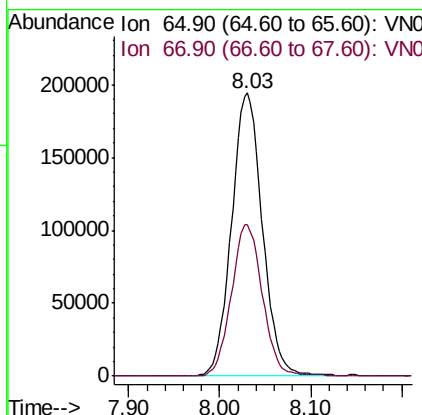
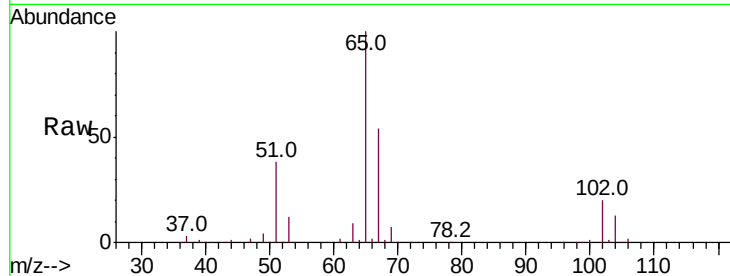




#33
 1,2-Dichloroethane-d4
 Concen: 57.541 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051575.D
 Acq: 27 Sep 2018 11:24

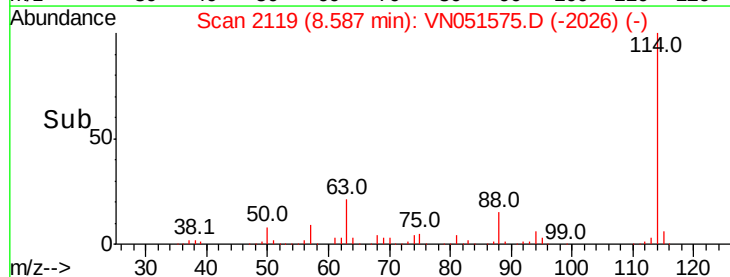
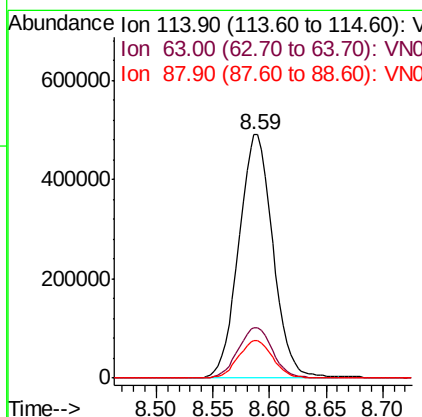
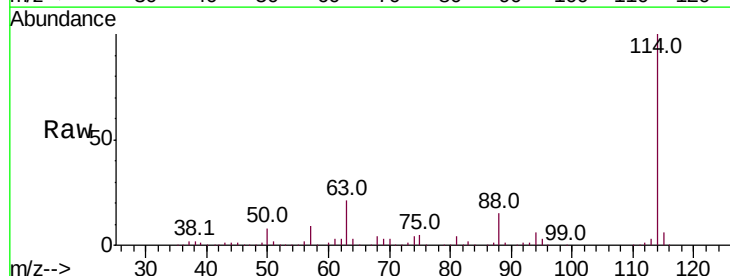
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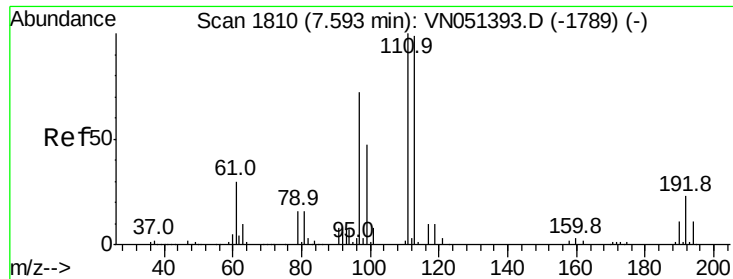
Tot Ion: 65 Resp: 457900
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051575.D
 Acq: 27 Sep 2018 11:24

Tgt Ion: 114 Resp: 1032272
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 40.2
 88 15.4 0.0 31.4

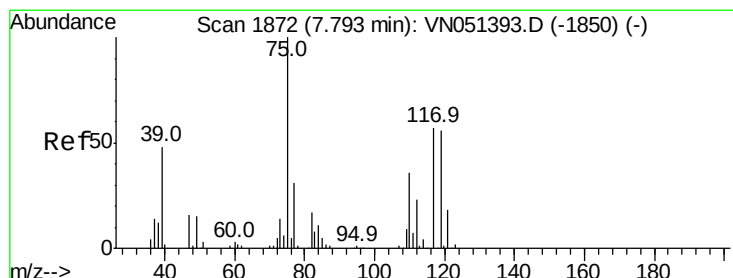
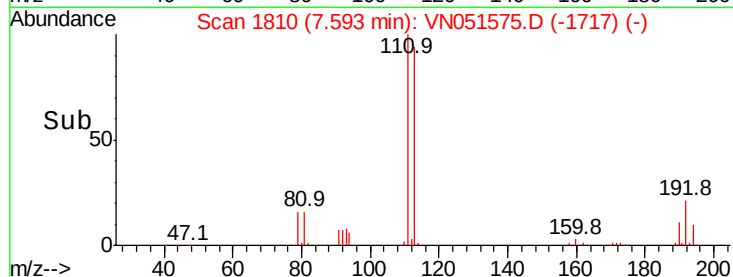
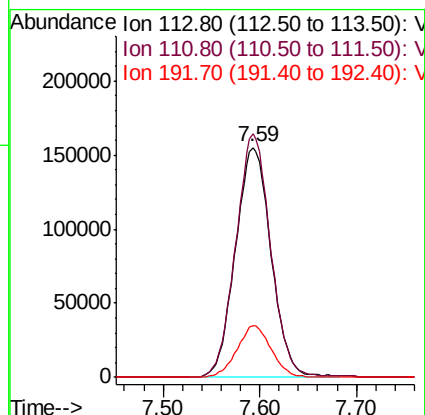
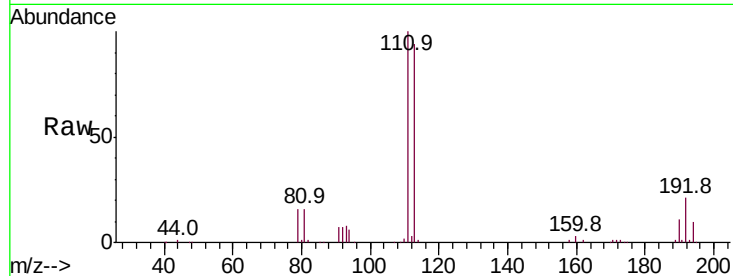




#35
 Dibromofluoromethane
 Concen: 48.289 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051575.D
 Acq: 27 Sep 2018 11:24

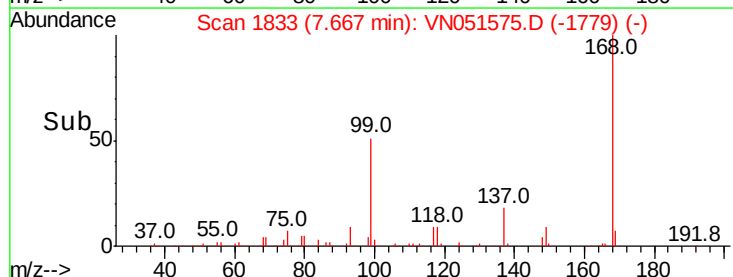
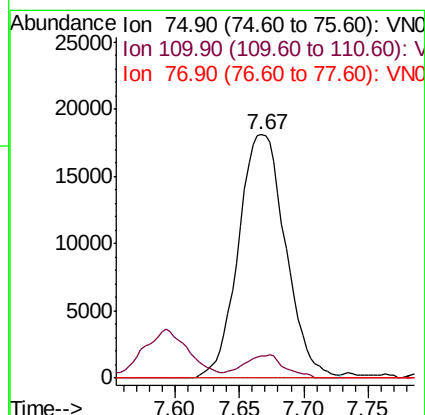
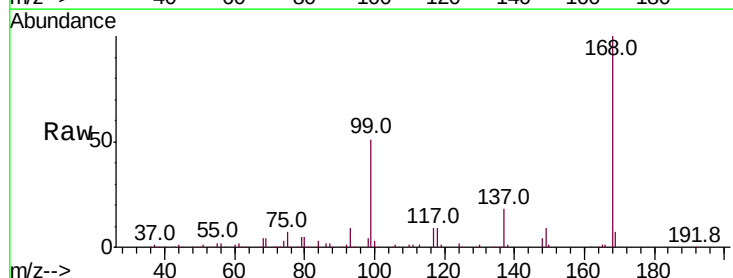
Instrument :
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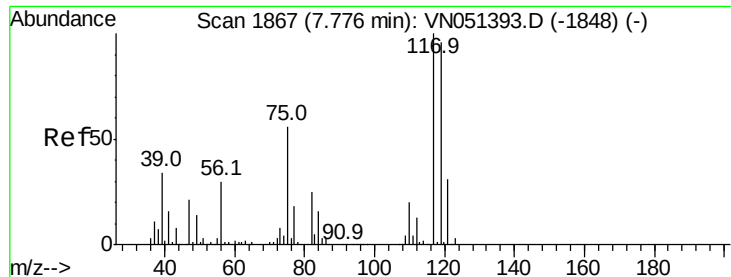
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.6	123.8
192	21.6	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.853 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051575.D
 Acq: 27 Sep 2018 11:24

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





#38

Carbon Tetrachloride

Concen: 4.711 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051575.D

Acq: 27 Sep 2018 11:24

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-D

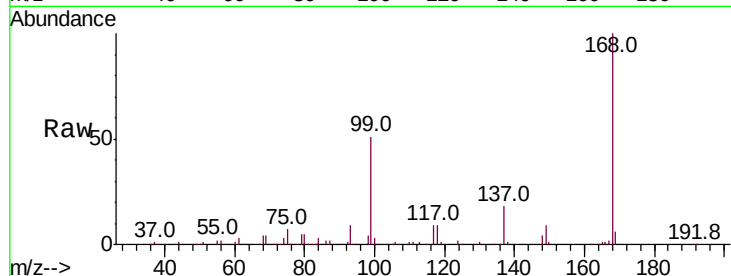
Tot Ion:117 Resp: 58907

Ion Ratio Lower Upper

117 100

119 5.8 76.9 115.3#

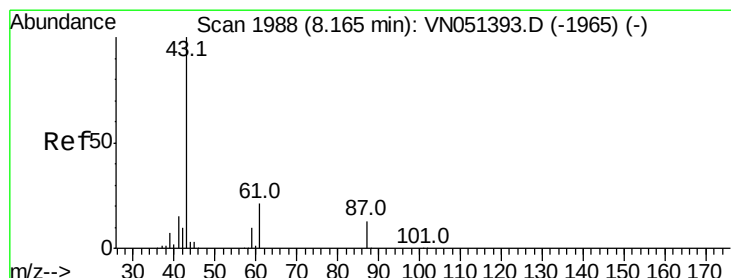
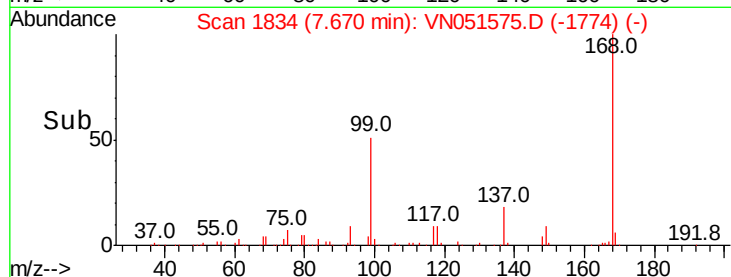
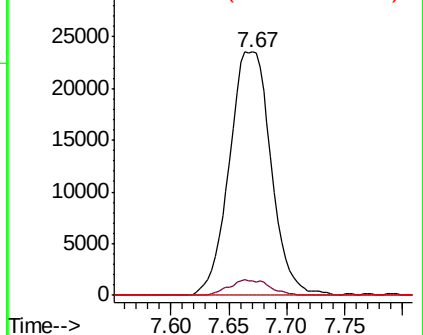
121 0.0 24.6 37.0#



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: 28.933 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051575.D

Acq: 27 Sep 2018 11:24

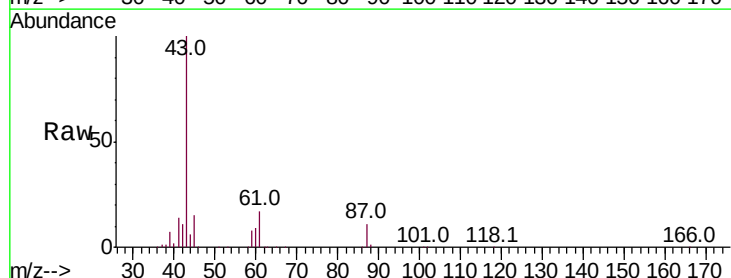
Tgt Ion: 43 Resp: 359591

Ion Ratio Lower Upper

43 100

61 14.6 16.8 25.2#

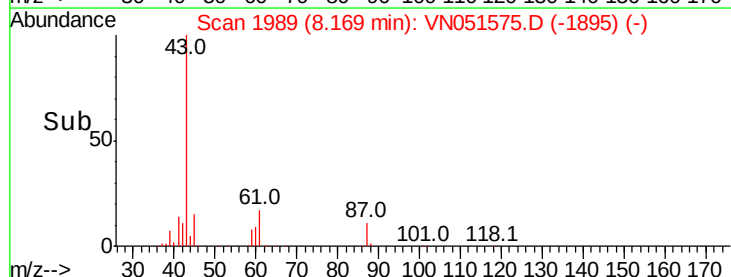
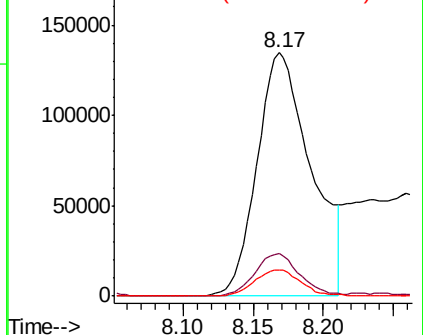
87 9.3 10.7 16.1#

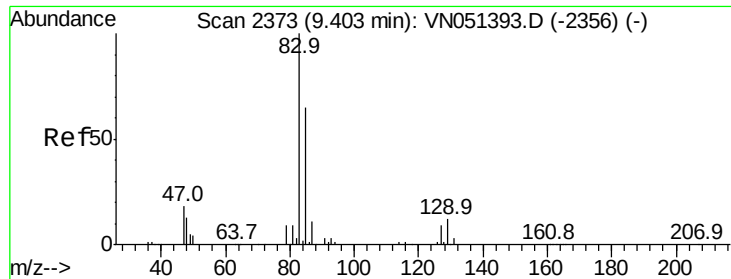


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#47

Bromodichloromethane

Concen: 0.214 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN051575.D

Acq: 27 Sep 2018 11:24

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-D

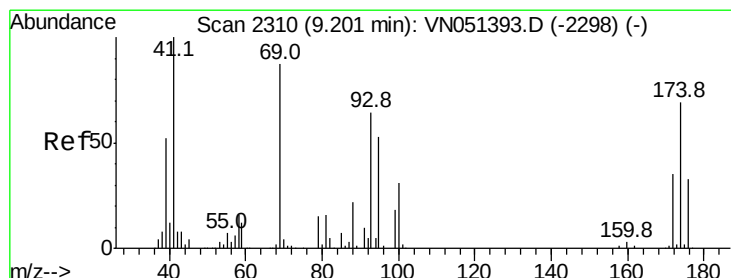
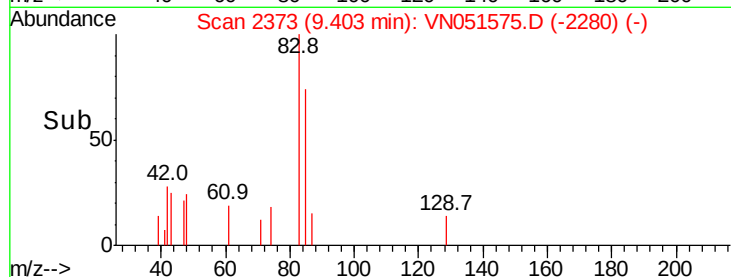
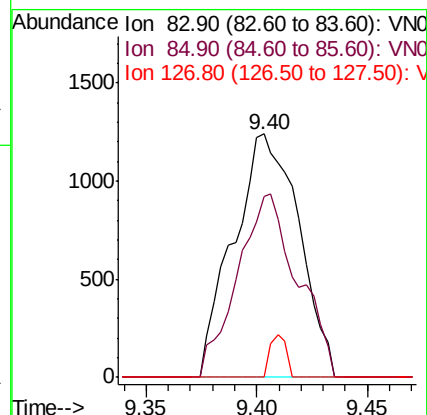
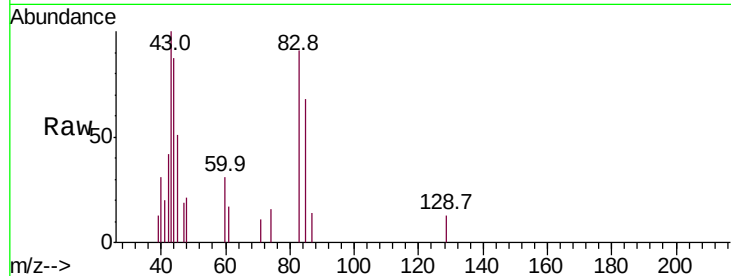
Tot Ion: 83 Resp: 2548

Ion Ratio Lower Upper

83 100

85 74.4 51.8 77.6

127 0.0 7.4 11.2#



#48

Methyl methacrylate

Concen: 1.303 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN051575.D

Acq: 27 Sep 2018 11:24

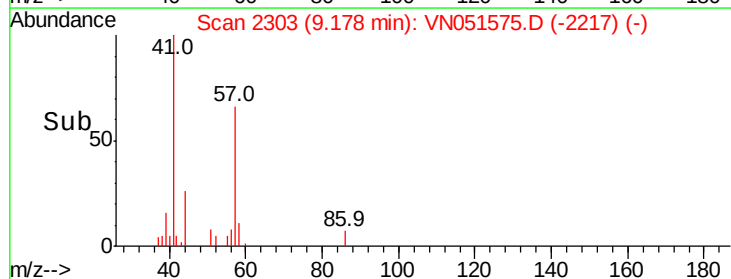
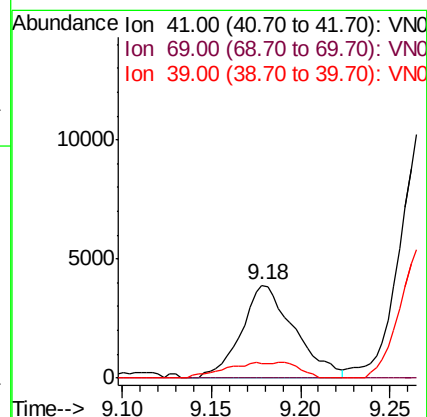
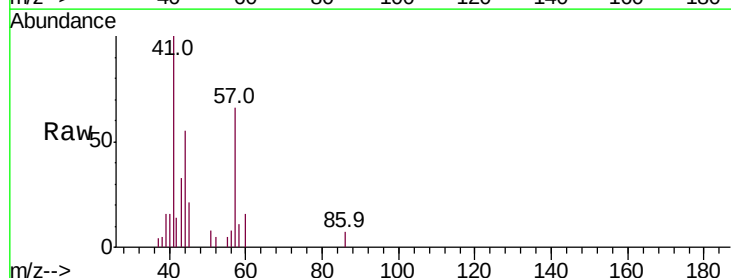
Tgt Ion: 41 Resp: 8071

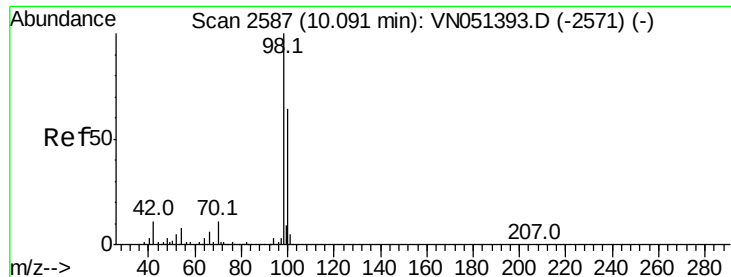
Ion Ratio Lower Upper

41 100

69 0.0 70.4 105.6#

39 13.9 43.8 65.8#





#50

Toluene-d8

Concen: 46.206 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051575.D

Acq: 27 Sep 2018 11:24

Instrument :

MSVOA_N

ClientSampleId :

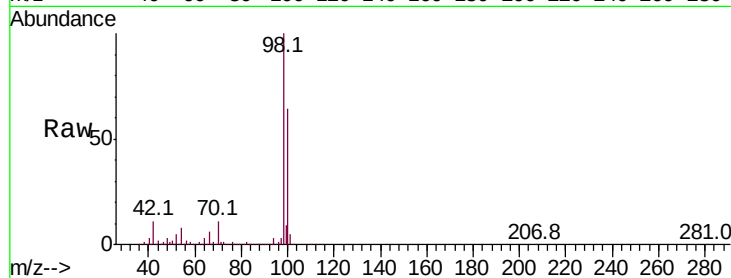
CL-02-092518-D

Tot Ion: 98 Resp: 1436252

Ion Ratio Lower Upper

98 100

100 63.3 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

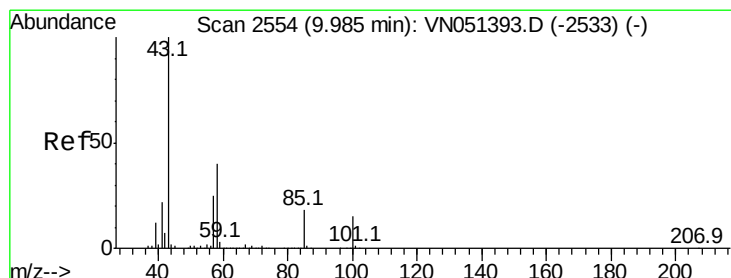
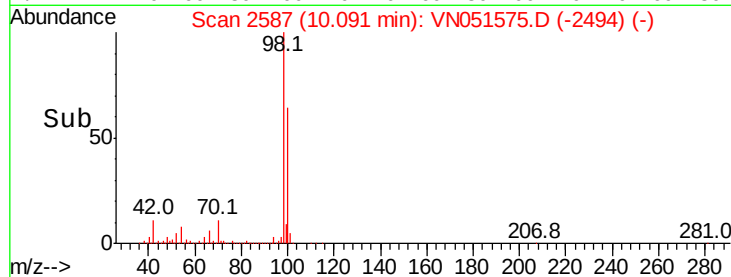
400000

200000

0

10.00 10.10 10.20 10.30

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.300 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN051575.D

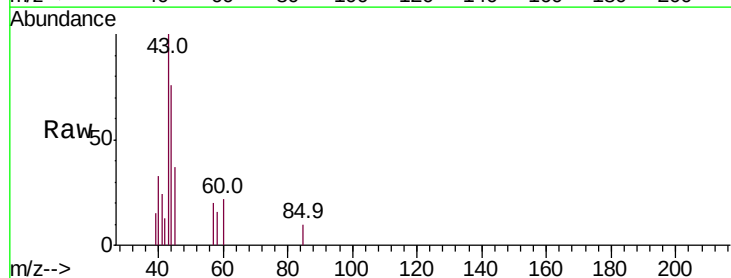
Acq: 27 Sep 2018 11:24

Tgt Ion: 43 Resp: 2052

Ion Ratio Lower Upper

43 100

58 25.5 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) (-)

9.98

1500

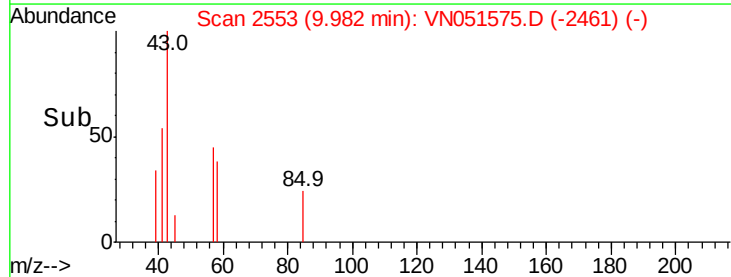
1000

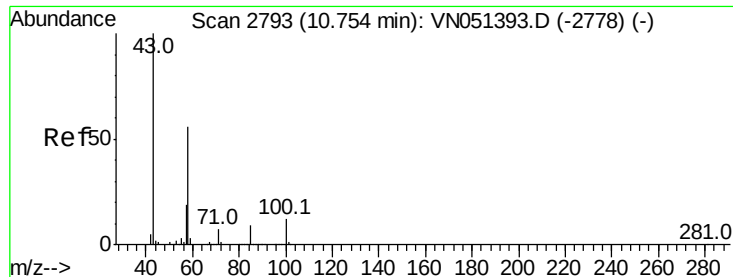
500

0

9.95 10.00

Time-->

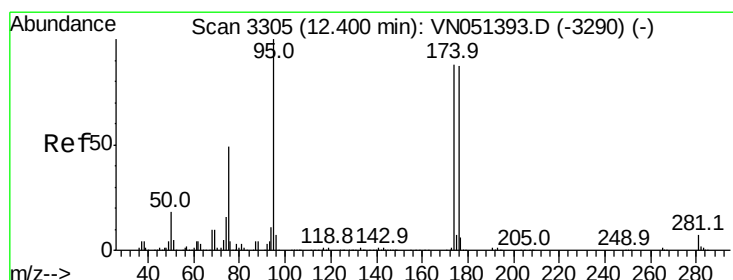
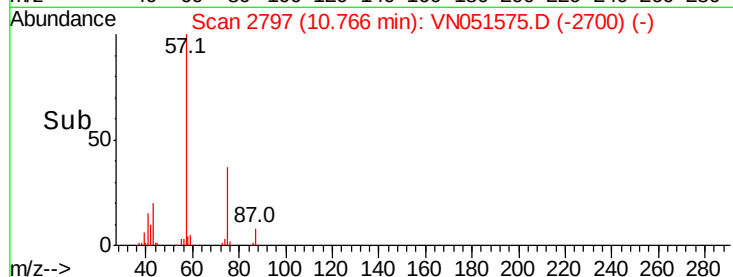
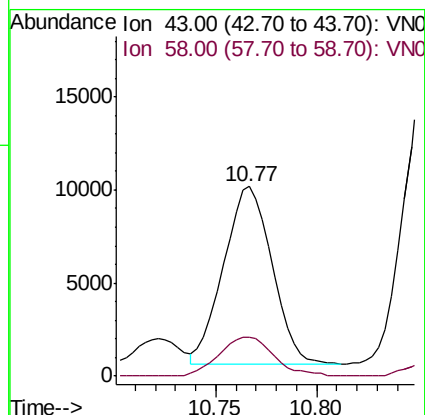
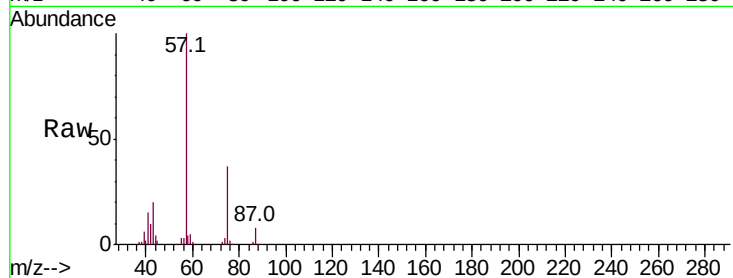




#59
2-Hexanone
Concen: 3.608 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051575.D
Acq: 27 Sep 2018 11:24

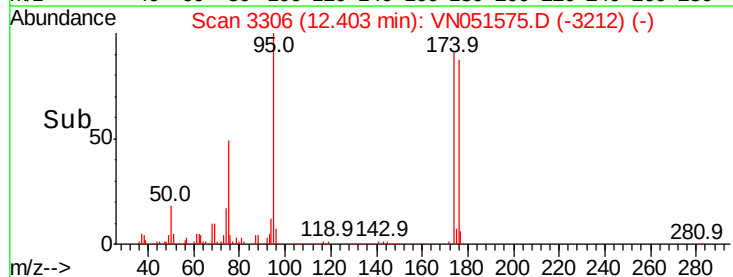
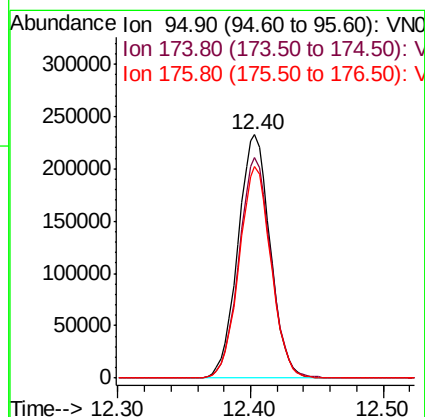
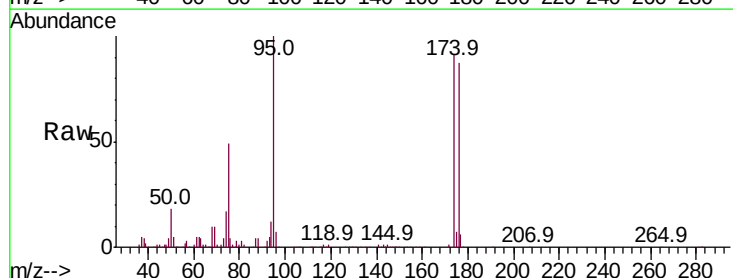
Instrument :
MSVOA_N
ClientSampleId :
CL-02-092518-D

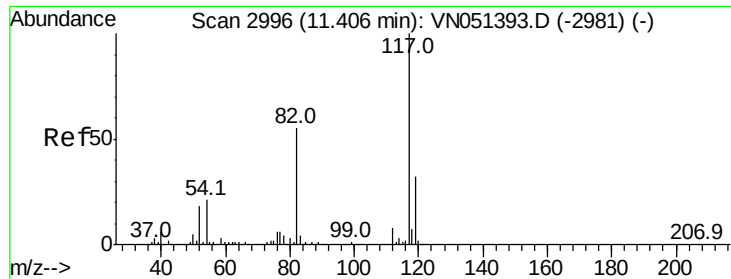
Tot Ion: 43 Resp: 15985
Ion Ratio Lower Upper
43 100
58 24.7 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 39.053 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051575.D
Acq: 27 Sep 2018 11:24

Tgt Ion: 95 Resp: 392700
Ion Ratio Lower Upper
95 100
174 89.8 0.0 181.6
176 86.0 0.0 176.4

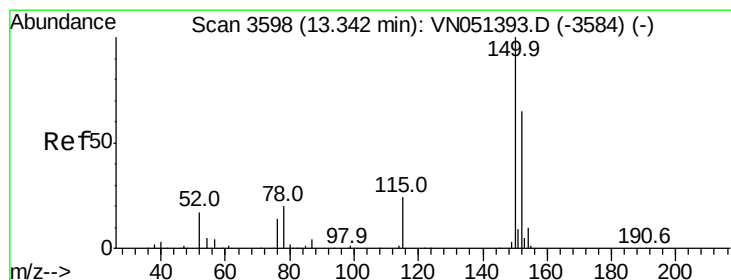
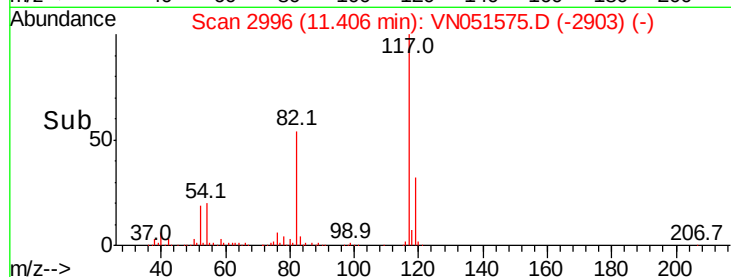
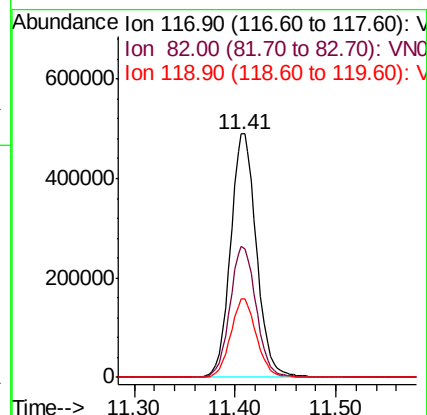
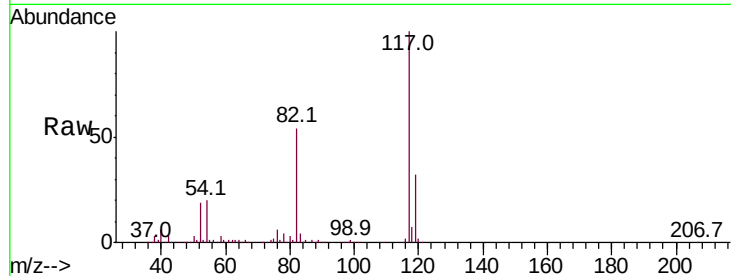




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051575.D
Acq: 27 Sep 2018 11:24

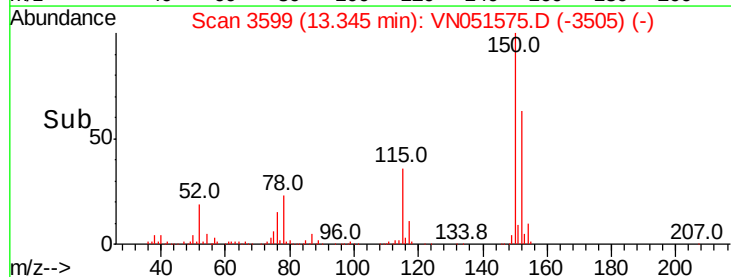
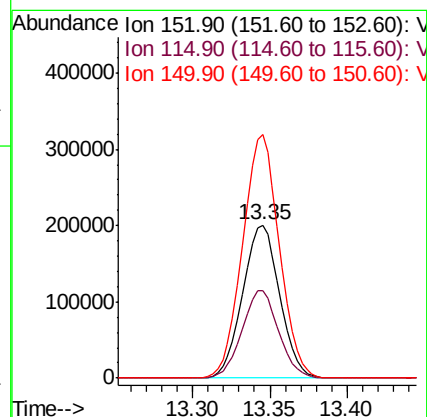
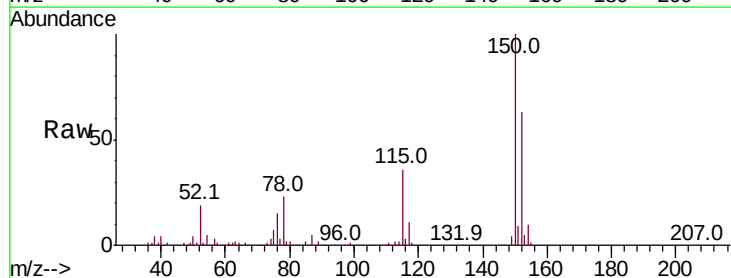
Instrument :
MSVOA_N
ClientSampleId :
CL-02-092518-D

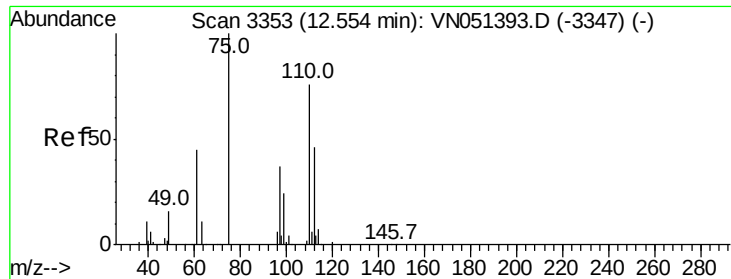
Tot Ion:117 Resp: 876923
Ion Ratio Lower Upper
117 100
82 53.9 44.2 66.2
119 32.0 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051575.D
Acq: 27 Sep 2018 11:24

Tgt Ion:152 Resp: 332592
Ion Ratio Lower Upper
152 100
115 56.8 28.3 84.9
150 158.1 0.0 353.6

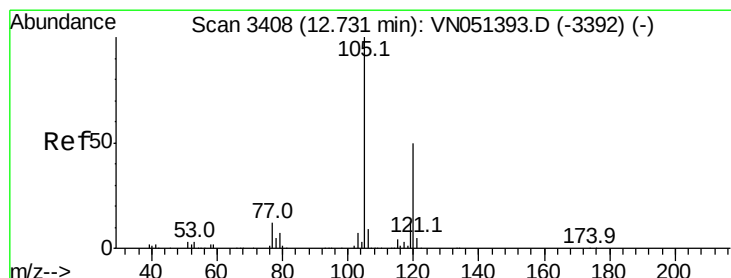
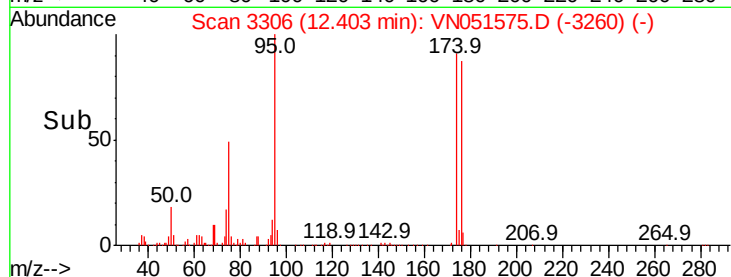
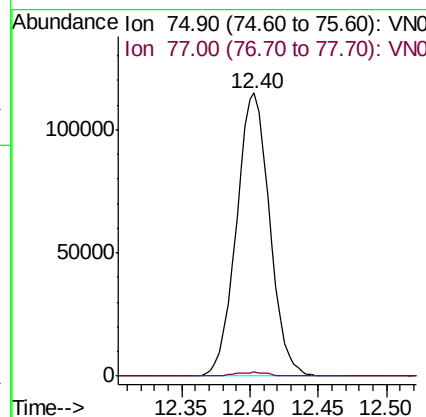
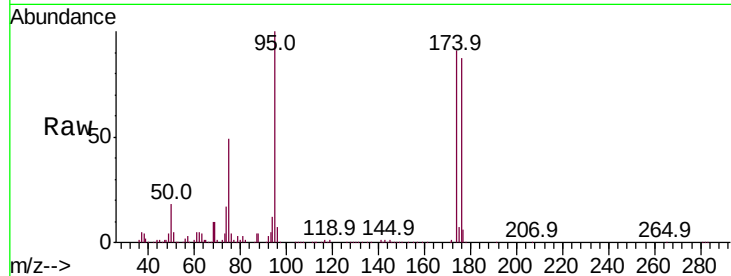




#76
 1,2,3-Trichloropropane
 Concen: 35.118 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN051575.D
 Acq: 27 Sep 2018 11:24

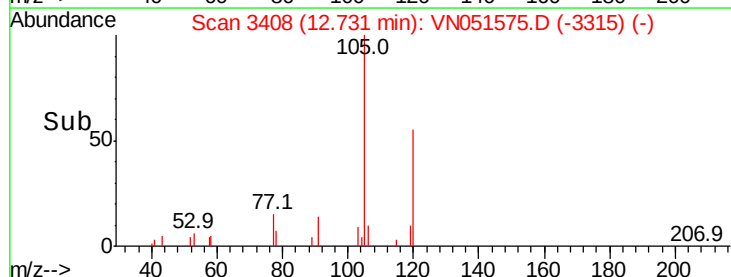
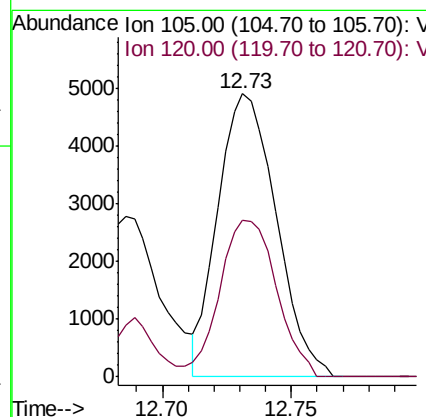
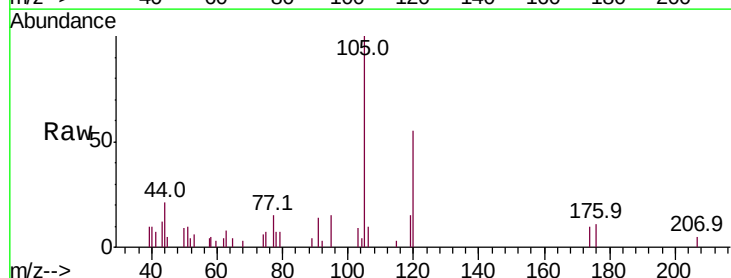
Instrument :
 MSVOA_N
 ClientSampleID :
 CL-02-092518-D

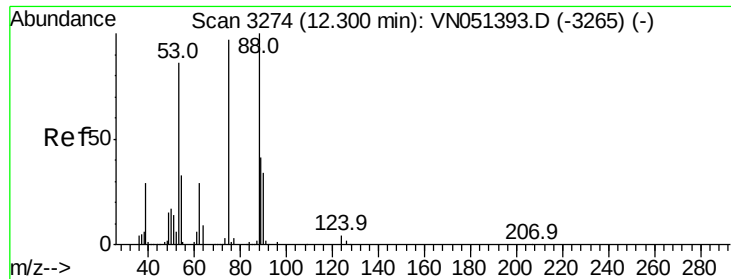
Tot Ion: 75 Resp: 193897
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.337 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN051575.D
 Acq: 27 Sep 2018 11:24

Tgt Ion:105 Resp: 7712
 Ion Ratio Lower Upper
 105 100
 120 53.9 24.8 74.4





#81

trans-1,4-Dichloro-2-butene

Concen: 107.987 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051575.D

Acq: 27 Sep 2018 11:24

Instrument :

MSVOA_N

ClientSampleId :

CL-02-092518-D

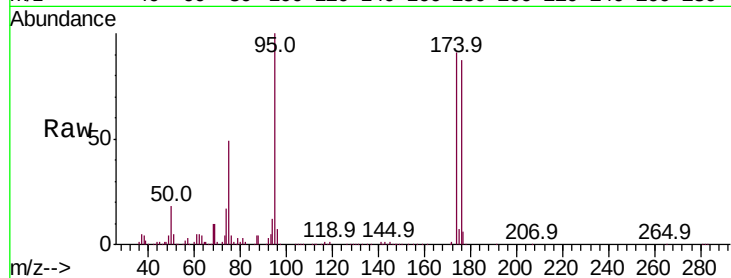
Tot Ion: 75 Resp: 193897

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

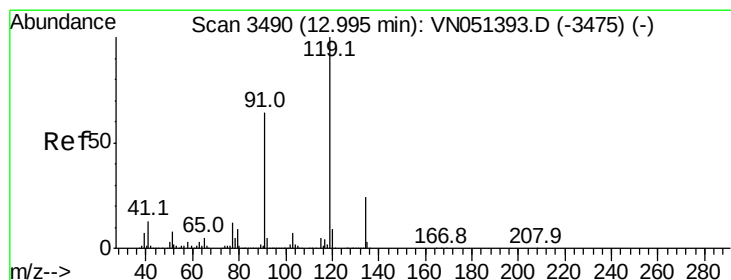
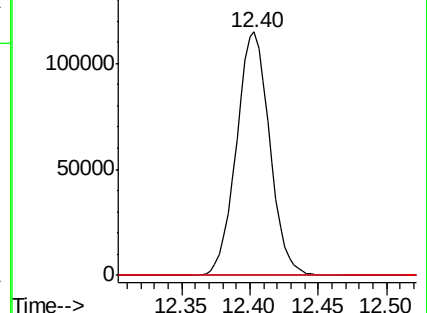
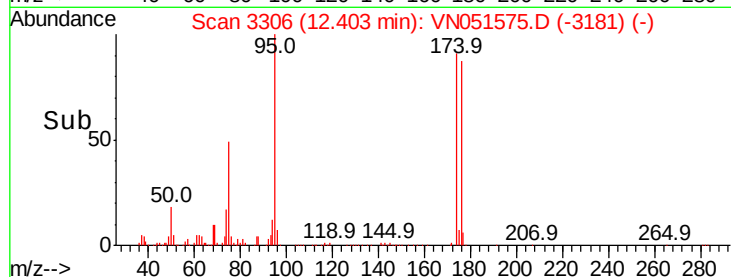
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#83

tert-Butylbenzene

Concen: 0.209 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.04 min

Lab File: VN051575.D

Acq: 27 Sep 2018 11:24

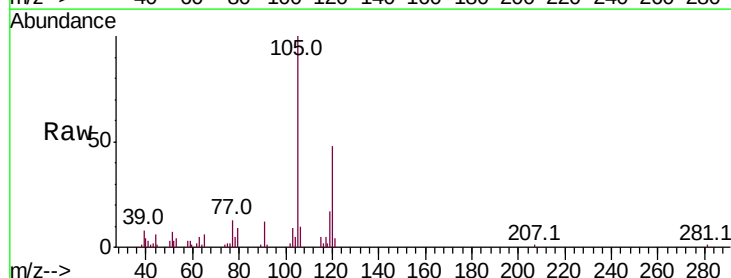
Tgt Ion: 119 Resp: 4253

Ion Ratio Lower Upper

119 100

91 77.6 31.7 95.1

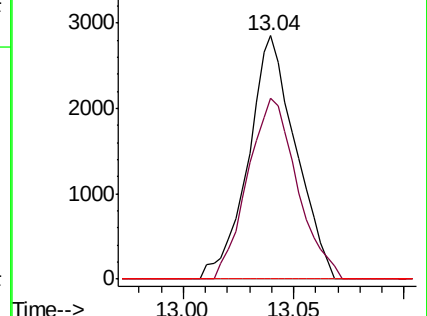
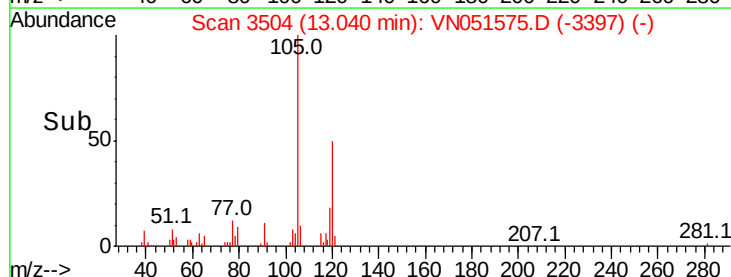
134 0.0 12.3 36.9#

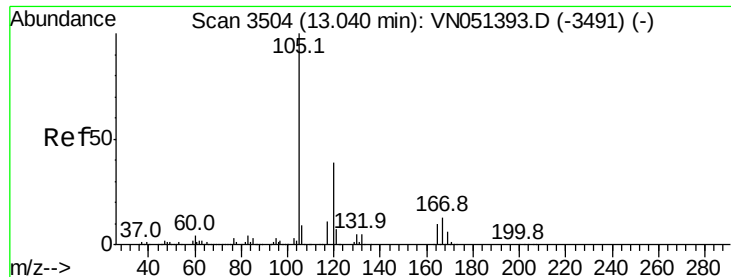


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V





#84

1,2,4-Trimethylbenzene

Concen: 1.168 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN051575.D

Acq: 27 Sep 2018 11:24

Instrument :

MSVOA_N

ClientSampleId :

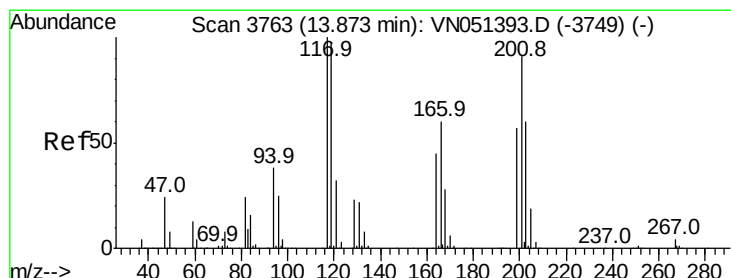
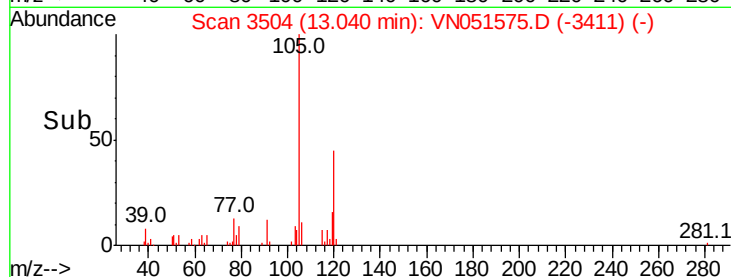
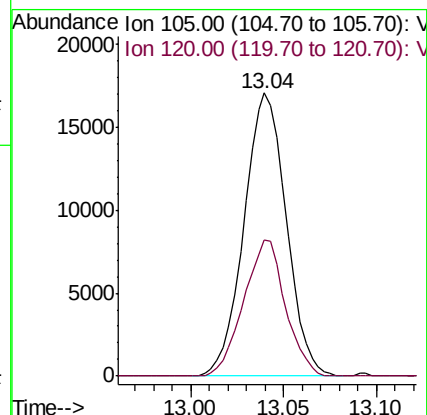
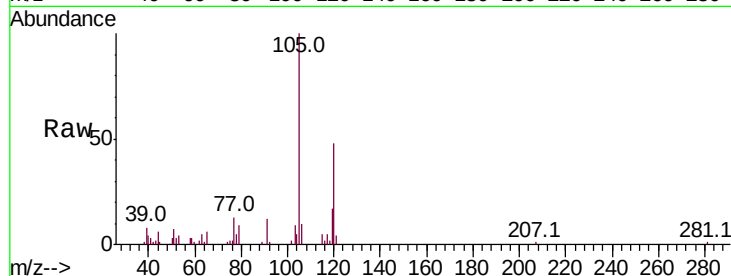
CL-02-092518-D

Tot Ion:105 Resp: 26926

Ion Ratio Lower Upper

105 100

120 47.5 22.9 68.7



#90

Hexachloroethane

Concen: 0.213 ug/l

RT: 13.89 min Scan# 3769

Delta R.T. 0.02 min

Lab File: VN051575.D

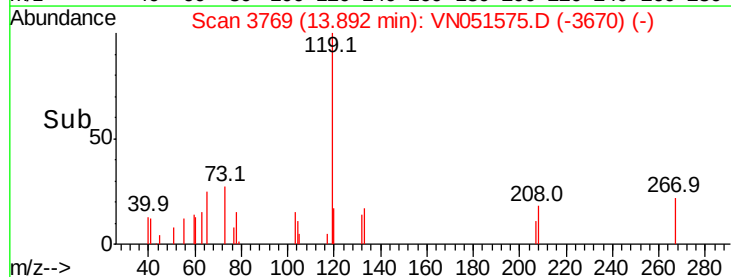
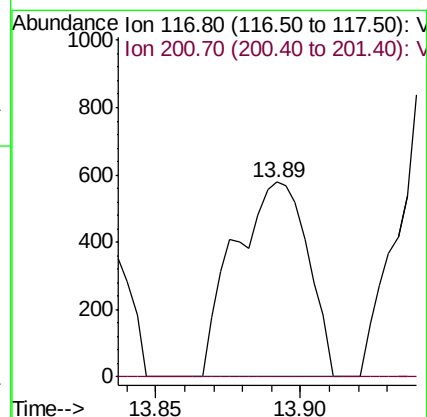
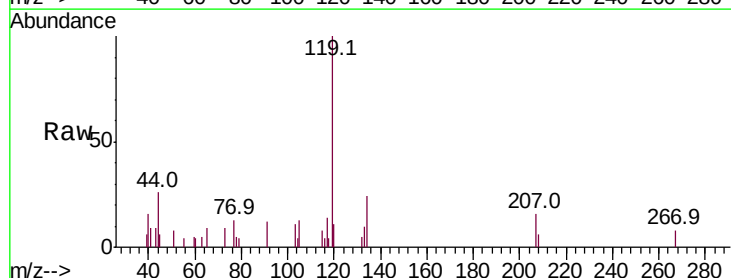
Acq: 27 Sep 2018 11:24

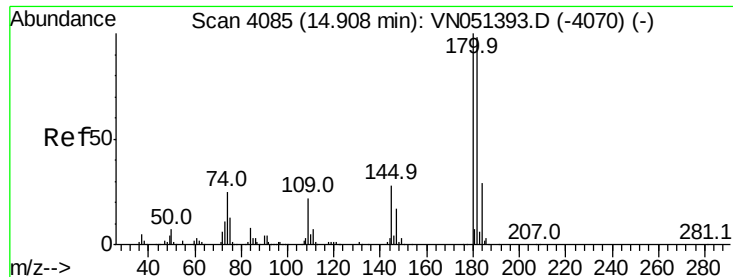
Tgt Ion:117 Resp: 1014

Ion Ratio Lower Upper

117 100

201 0.0 45.5 136.4#

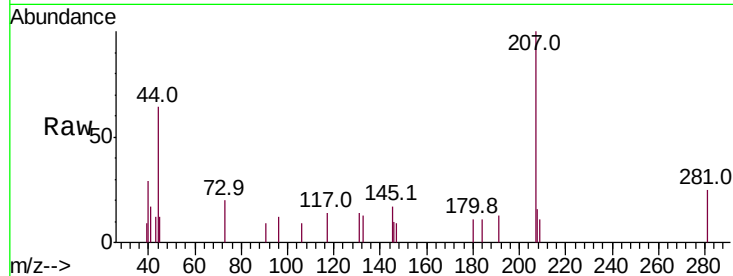




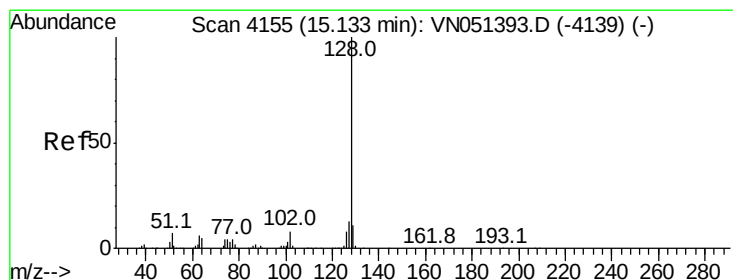
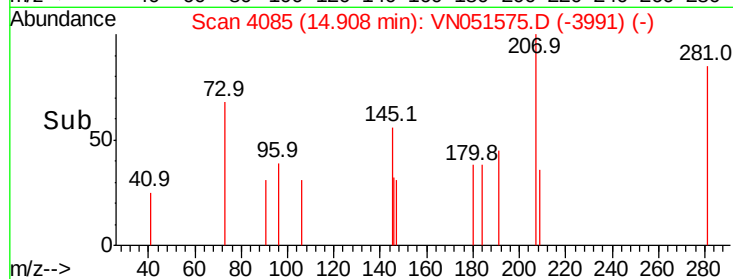
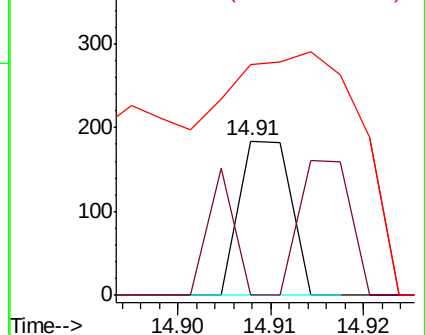
#93
 1,2,4-Trichlorobenzene
 Concen: 5.991 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN051575.D
 Acq: 27 Sep 2018 11:24

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

Tot Ion:180 Resp: 71
 Ion Ratio Lower Upper
 180 100
 182 40.8 48.5 145.6#
 145 270.4 14.1 42.4#

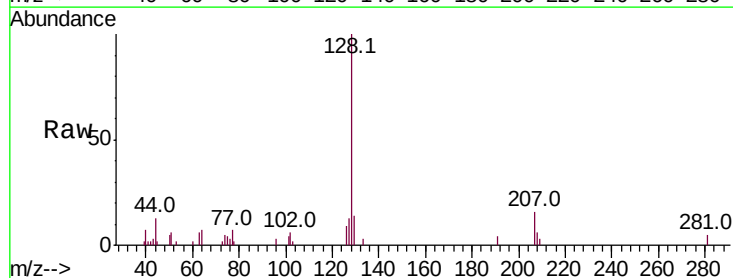


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 9.073 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN051575.D
 Acq: 27 Sep 2018 11:24

Tgt Ion:128 Resp: 15163
 Ion Ratio Lower Upper
 128 100
 127 13.7 10.5 15.7
 129 14.0 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

