

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092418\
 Data File : VN051465.D
 Acq On : 24 Sep 2018 16:46
 Operator : MD\SY
 Sample : J5059-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PHASE-2

Quant Time: Sep 25 02:00:15 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	646332	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	980999	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	833095	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	306661	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	433532	53.55	ug/l	0.00
Spiked Amount			Recovery	=	107.10%	
35) Dibromofluoromethane	7.59	113	380859	48.55	ug/l	0.00
Spiked Amount			Recovery	=	97.10%	
50) Toluene-d8	10.09	98	1389250	47.03	ug/l	0.00
Spiked Amount			Recovery	=	94.06%	
62) 4-Bromofluorobenzene	12.40	95	367473	38.45	ug/l	0.00
Spiked Amount			Recovery	=	76.90%	

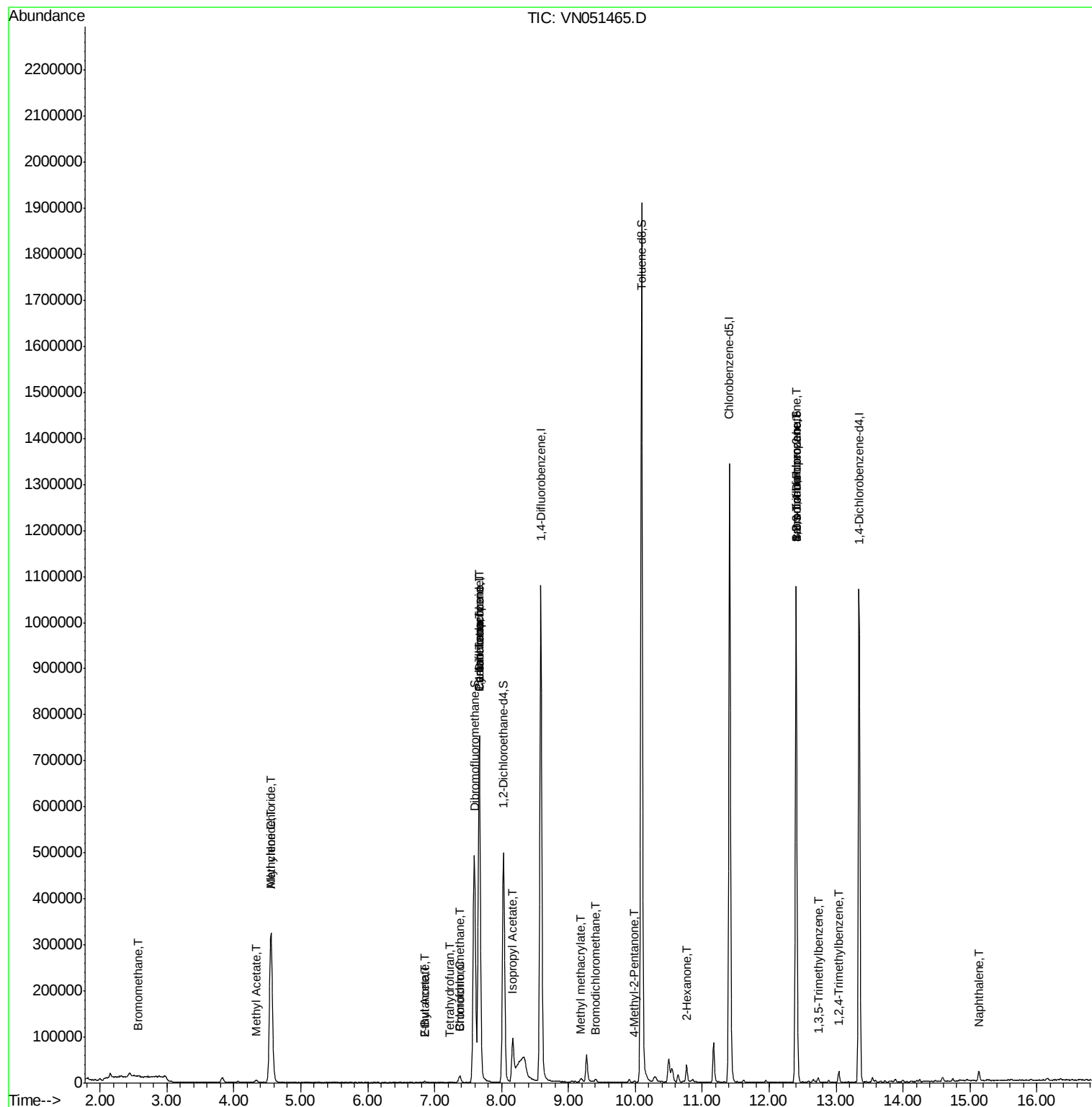
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	988	0.215	ug/l	96
14) Allyl chloride	4.55	41	9334	0.774	ug/l #	26
16) Acetone	3.82	43	19427	Below Cal		97
18) Methyl Acetate	4.34	43	9217	1.495	ug/l #	88
20) Methylene Chloride	4.55	84	243005	30.331	ug/l	99
25) 2-Butanone	6.85	43	4228	1.526	ug/l	91
28) Bromochloromethane	7.37	49	1297	0.202	ug/l #	12
29) Tetrahydrofuran	7.23	42	1026	0.584	ug/l #	80
30) Chloroform	7.37	83	15740	1.142	ug/l	93
31) Cyclohexane	7.66	56	10995	0.862	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	45657	4.019	ug/l #	48
37) Ethyl Acetate	6.85	43	4228	0.647	ug/l #	68
38) Carbon Tetrachloride	7.67	117	56464	4.752	ug/l #	17
43) Isopropyl Acetate	8.17	43	125918	10.661	ug/l	95
47) Bromodichloromethane	9.41	83	4257	0.375	ug/l #	80
48) Methyl methacrylate	9.18	41	4490	0.762	ug/l #	18
51) 4-Methyl-2-Pentanone	9.99	43	1999	0.308	ug/l	100
59) 2-Hexanone	10.76	43	6033	1.433	ug/l #	54
71) Bromoform	12.40	173	1560	0.282	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	182057	35.762	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4323	0.205	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.40	75	182057	109.966	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.04	105	13118	0.617	ug/l	88
95) Naphthalene	15.13	128	19730	9.496	ug/l	99

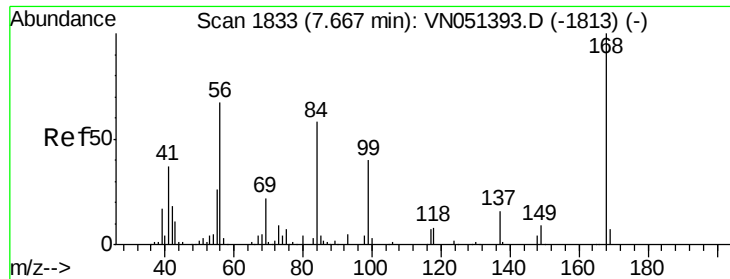
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1833

Delta R.T. -0.00 min

Lab File: VN051465.D

Acq: 24 Sep 2018 16:46

Instrument :

MSVOA_N

ClientSampleId :

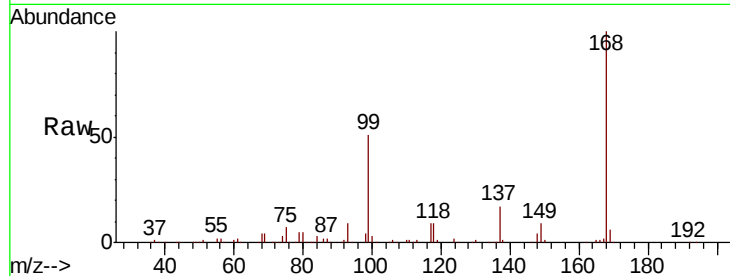
PHASE-2

Tot Ion:168 Resp: 646332

Ion Ratio Lower Upper

168 100

99 50.5 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

250000

200000

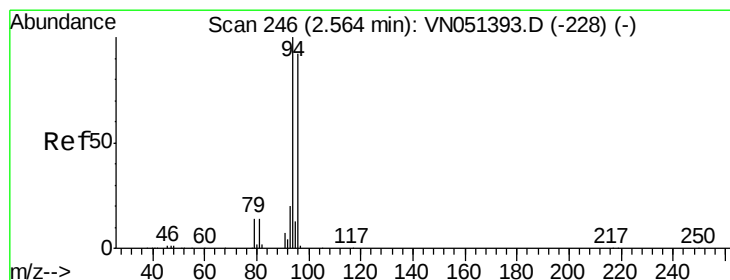
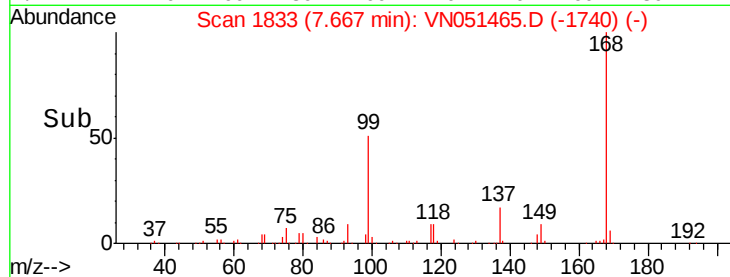
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.215 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051465.D

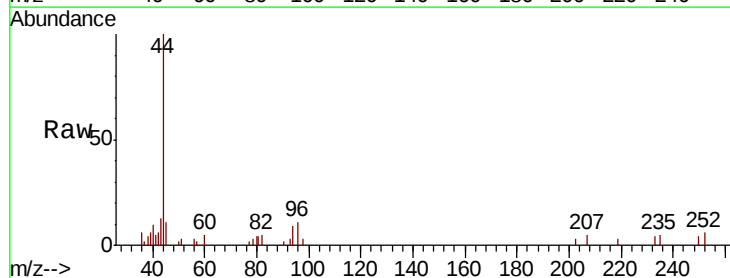
Acq: 24 Sep 2018 16:46

Tgt Ion: 94 Resp: 988

Ion Ratio Lower Upper

94 100

96 88.4 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

800

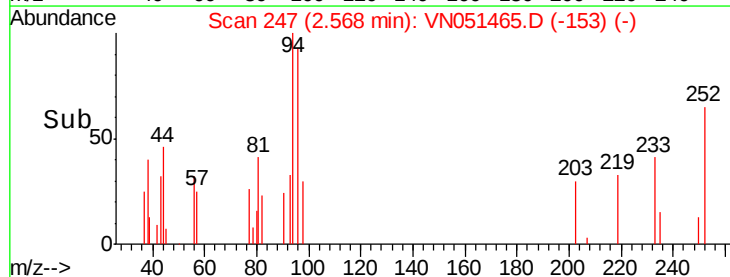
600

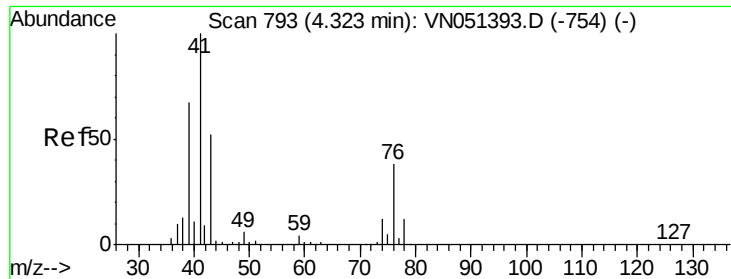
400

200

0

Time-->

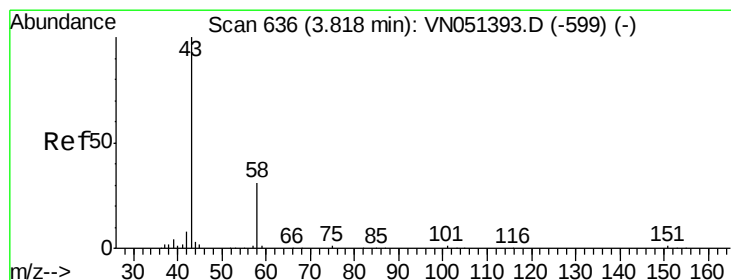
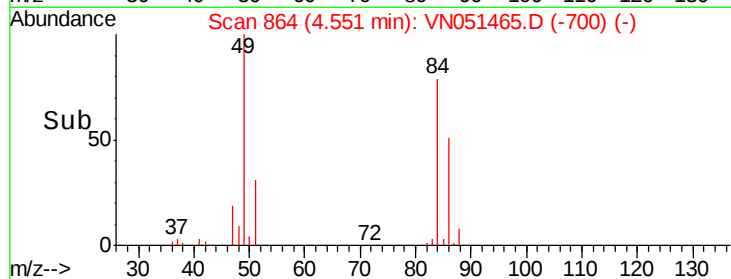
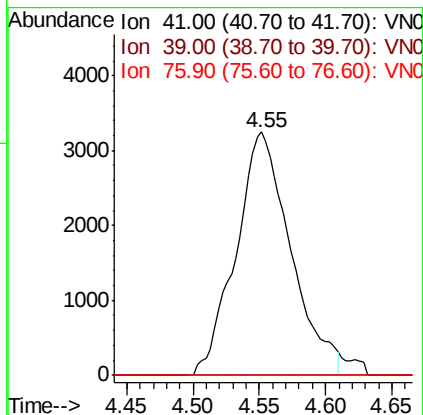
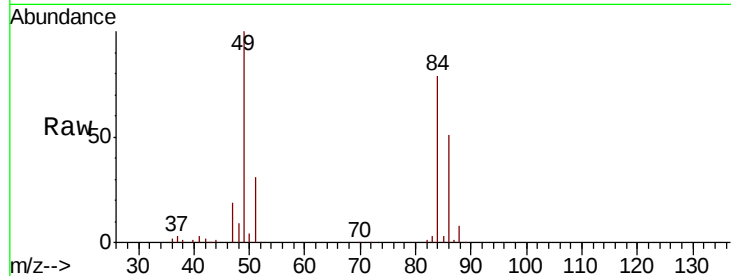




#14
Allvl chloride
Concen: 0.774 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.23 min
Lab File: VN051465.D
Acq: 24 Sep 2018 16:46

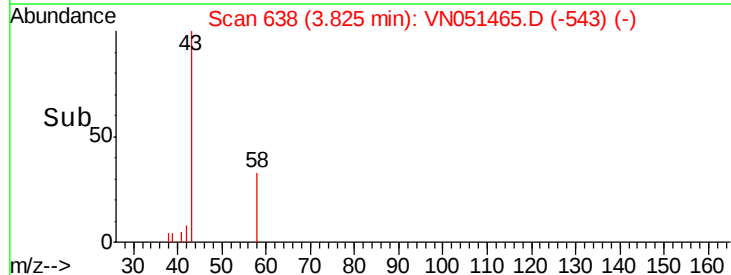
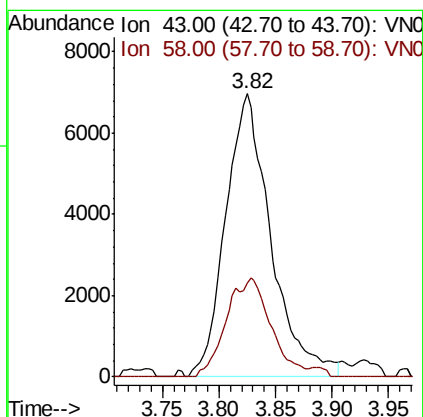
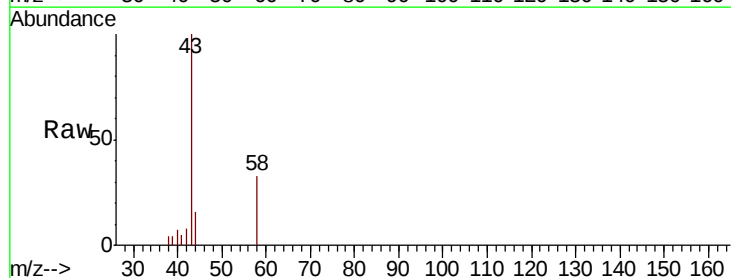
Instrument :
MSVOA_N
ClientSampled :
PHASE-2

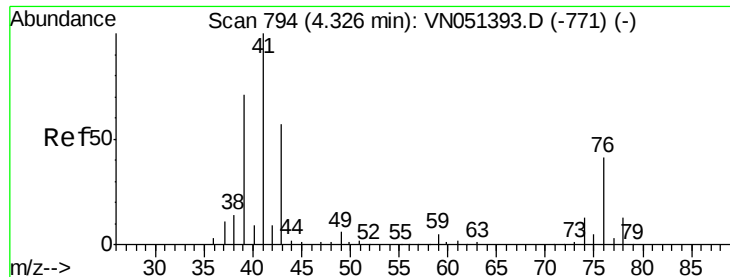
Tot Ion: 41 Resp: 9334
Ion Ratio Lower Upper
41 100
39 0.0 51.4 77.2#
76 0.0 28.1 42.1#



#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN051465.D
Acq: 24 Sep 2018 16:46

Tgt Ion: 43 Resp: 19427
Ion Ratio Lower Upper
43 100
58 33.0 25.0 37.4

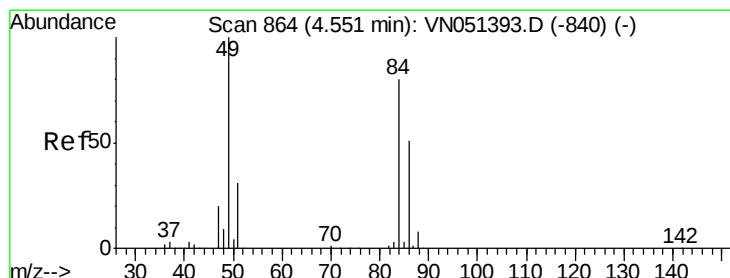
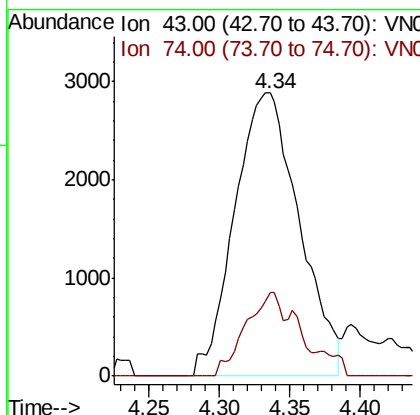
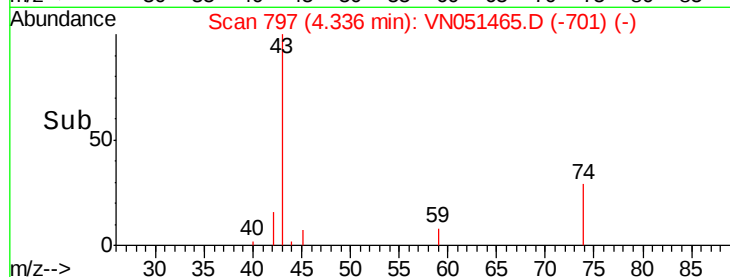
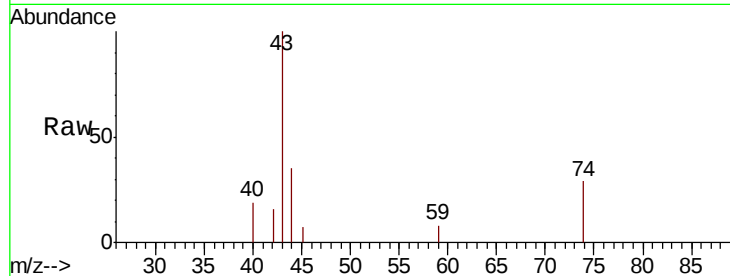




#18
Methyl Acetate
Concen: 1.495 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051465.D
Acq: 24 Sep 2018 16:46

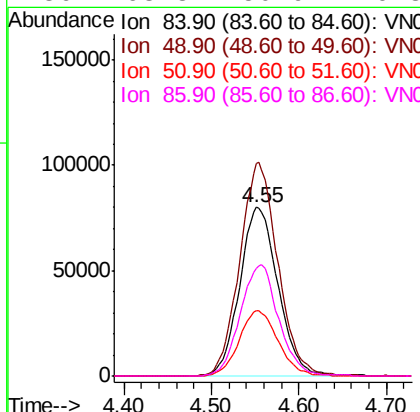
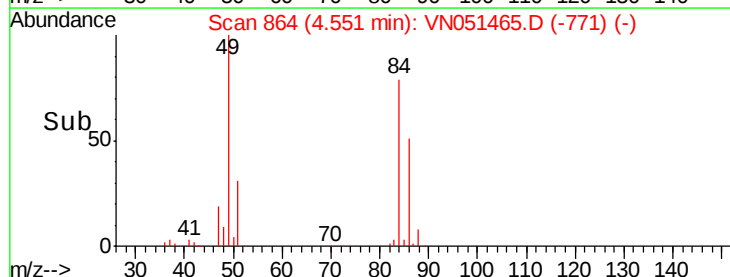
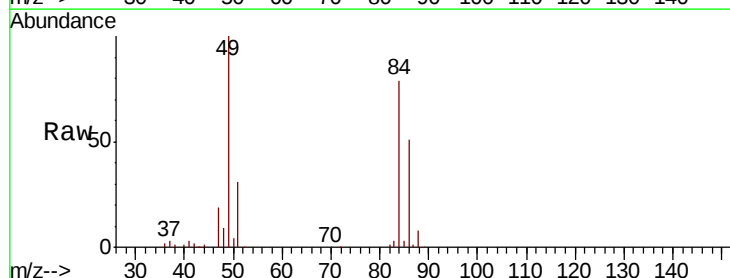
Instrument :
MSVOA_N
ClientSampled :
PHASE-2

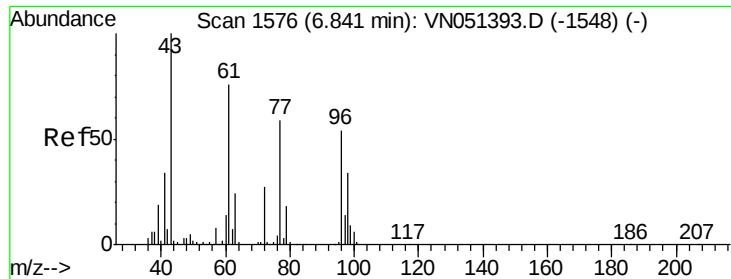
Tot Ion: 43 Resp: 9217
Ion Ratio Lower Upper
43 100
74 17.7 18.8 28.2#



#20
Methylene Chloride
Concen: 30.331 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051465.D
Acq: 24 Sep 2018 16:46

Tgt Ion: 84 Resp: 243005
Ion Ratio Lower Upper
84 100
49 126.4 99.9 149.9
51 39.1 31.4 47.2
86 63.8 50.9 76.3





#25

2-Butanone

Concen: 1.526 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN051465.D

Acq: 24 Sep 2018 16:46

Instrument :

MSVOA_N

ClientSampled :

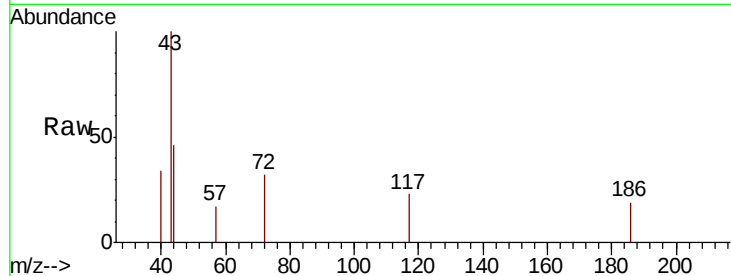
PHASE-2

Tot Ion: 43 Resp: 4228

Ion Ratio Lower Upper

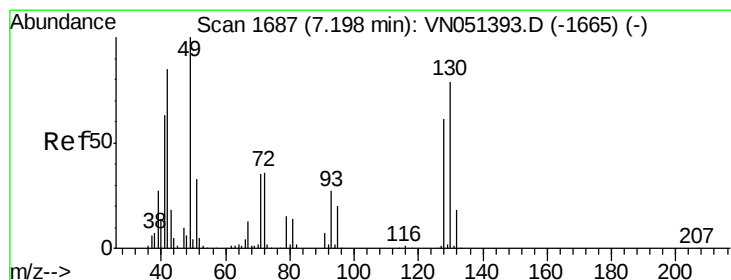
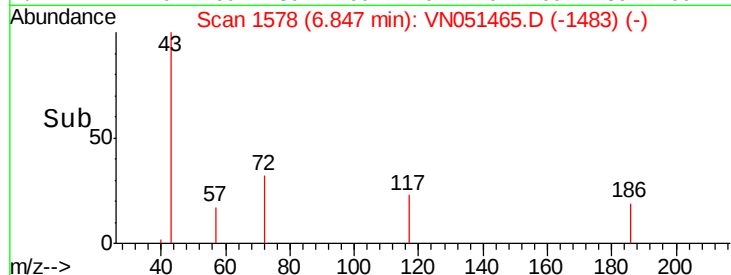
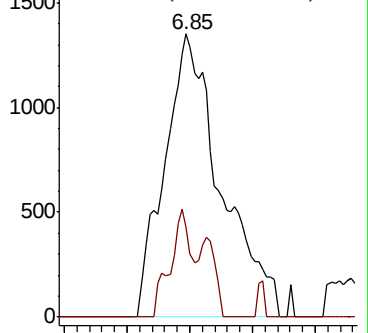
43 100

72 31.9 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#28

Bromochloromethane

Concen: 0.202 ug/l

RT: 7.37 min Scan# 1740

Delta R.T. 0.17 min

Lab File: VN051465.D

Acq: 24 Sep 2018 16:46

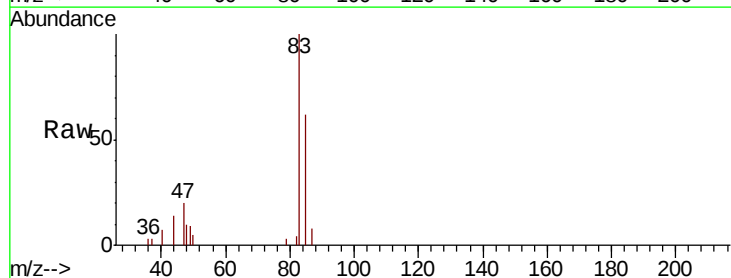
Tgt Ion: 49 Resp: 1297

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

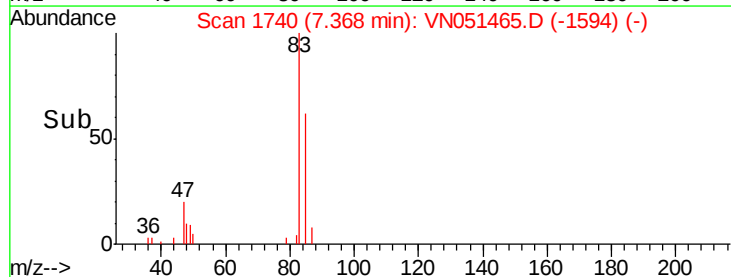
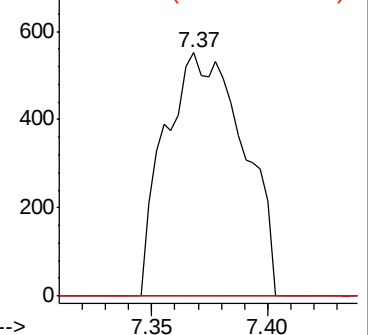
130 0.0 63.0 94.4#

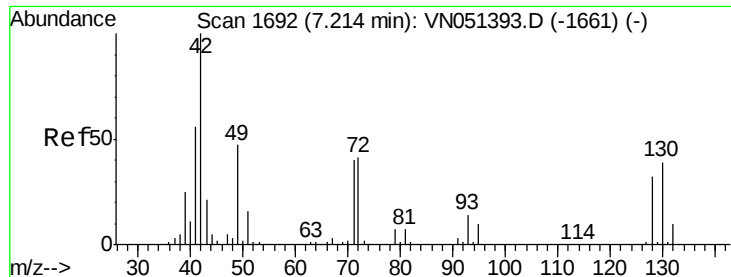


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.584 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN051465.D

Acq: 24 Sep 2018 16:46

Instrument :

MSVOA_N

ClientSampleId :

PHASE-2

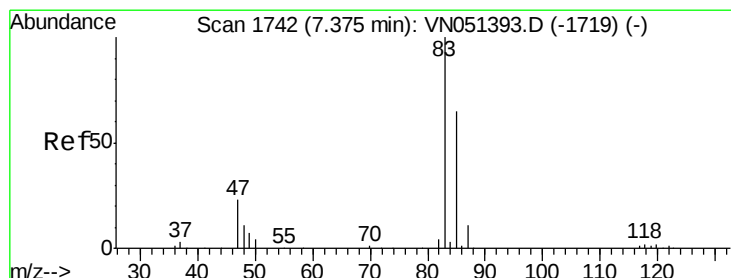
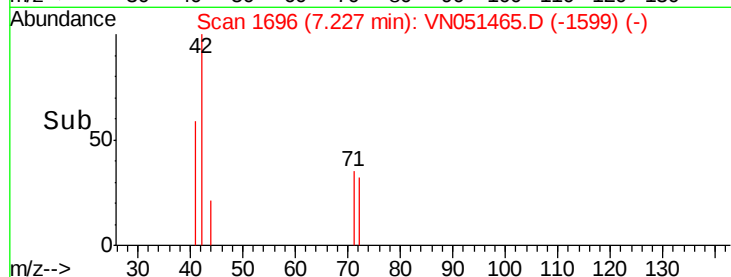
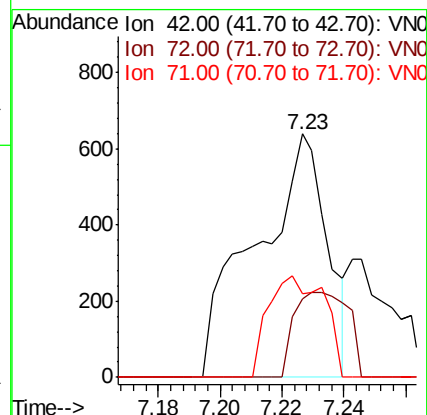
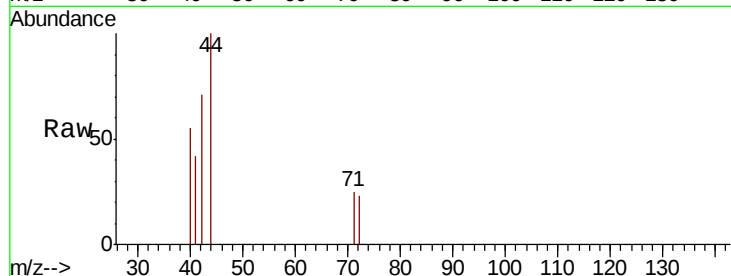
Tot Ion: 42 Resp: 1026

Ion Ratio Lower Upper

42 100

72 26.2 34.3 51.5#

71 32.5 32.2 48.4



#30

Chloroform

Concen: 1.142 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VN051465.D

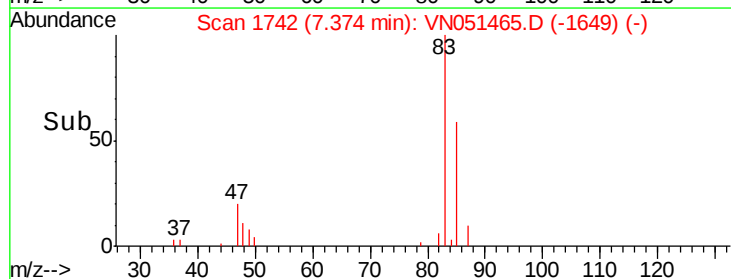
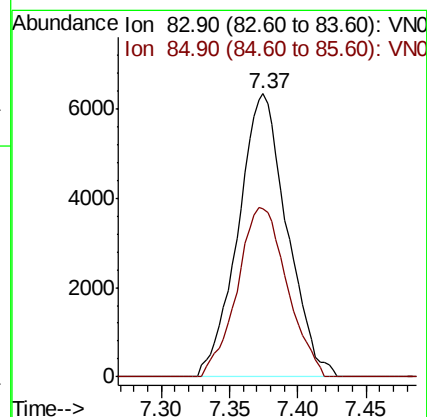
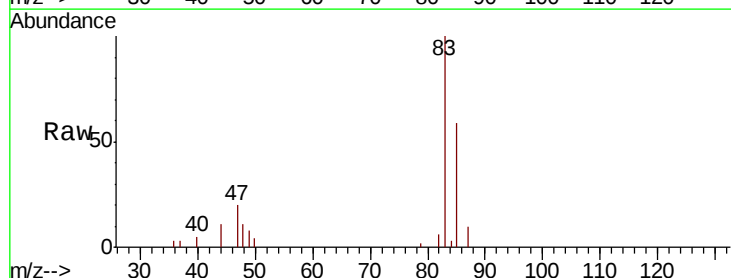
Acq: 24 Sep 2018 16:46

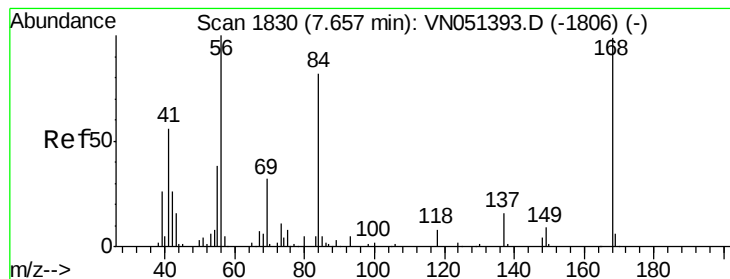
Tgt Ion: 83 Resp: 15740

Ion Ratio Lower Upper

83 100

85 59.4 51.8 77.6





#31

Cyclohexane

Concen: 0.862 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.00 min

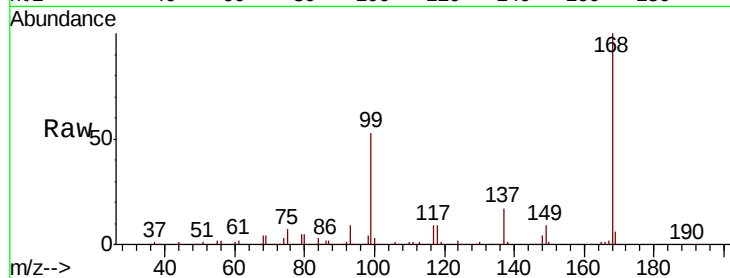
Lab File: VN051465.D

Acq: 24 Sep 2018 16:46

Instrument :
MSVOA_N
ClientSampled :
PHASE-2

Tot Ion: 56 Resp: 10995

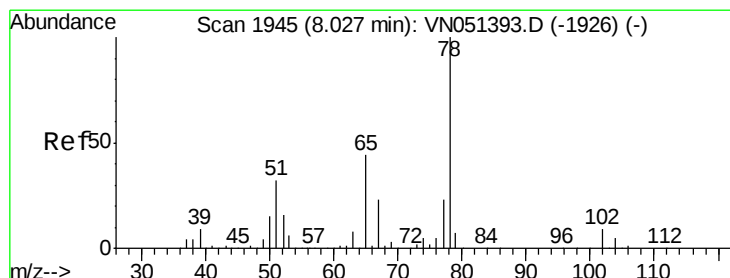
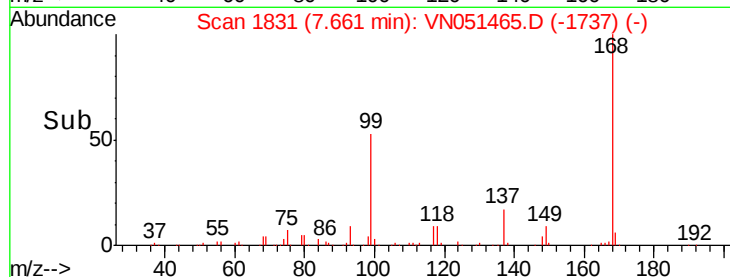
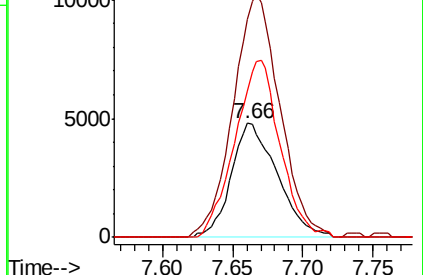
Ion	Ratio	Lower	Upper
56	100		
69	191.0	25.8	38.6#
84	128.6	66.0	99.0#



Abundance Ion 56.00 (55.70 to 56.70): VN051393.D (-1806) (-)

Ion 69.00 (68.70 to 69.70): VN051393.D (-1806) (-)

Ion 84.00 (83.70 to 84.70): VN051393.D (-1806) (-)



#33

1,2-Dichloroethane-d4

Concen: 53.546 ug/l

RT: 8.03 min Scan# 1946

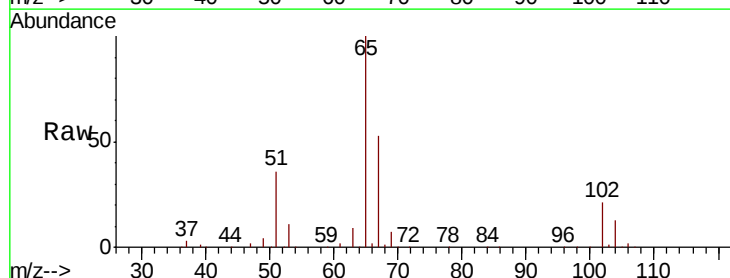
Delta R.T. 0.00 min

Lab File: VN051465.D

Acq: 24 Sep 2018 16:46

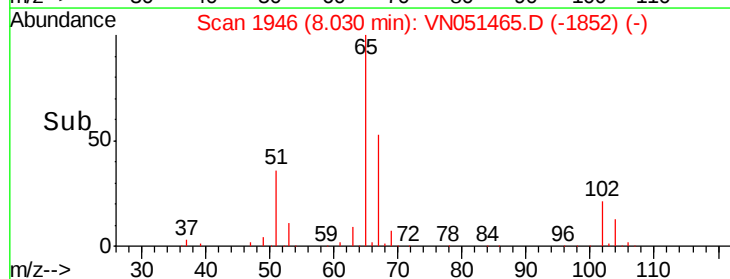
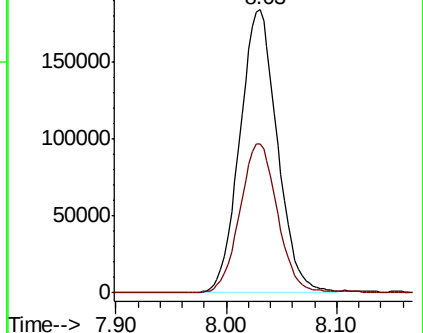
Tgt Ion: 65 Resp: 433532

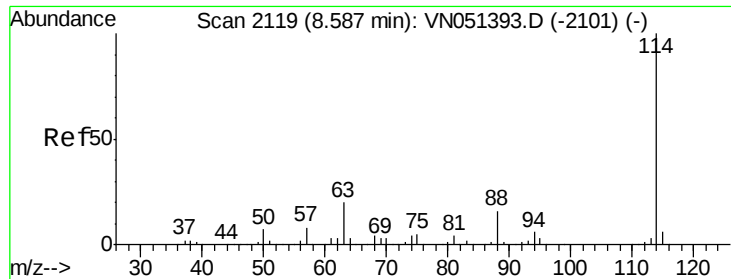
Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	107.8



Abundance Ion 64.90 (64.60 to 65.60): VN051393.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN051393.D (-1926) (-)

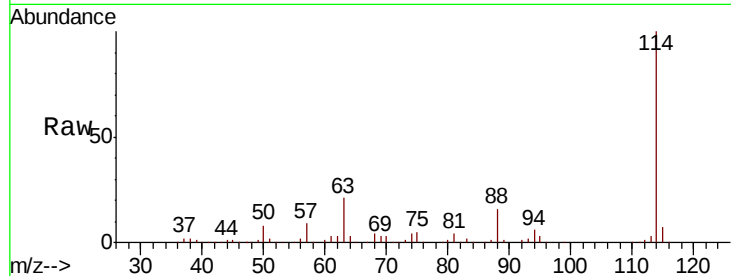




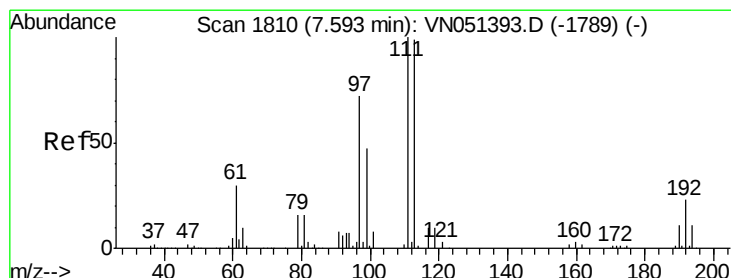
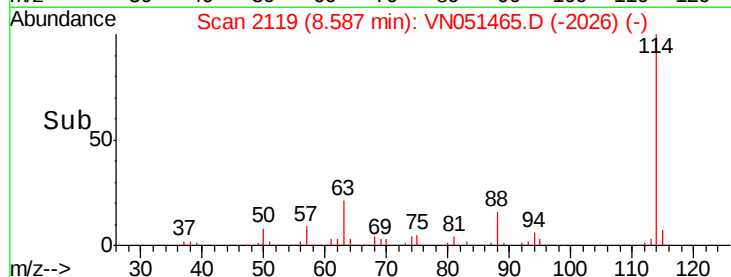
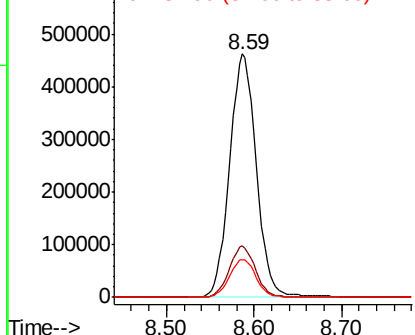
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. -0.00 min
Lab File: VN051465.D
Acq: 24 Sep 2018 16:46

Instrument :
MSVOA_N
ClientSampleId :
PHASE-2

Tot Ion:114 Resp: 980999
Ion Ratio Lower Upper
114 100
63 21.2 0.0 40.2
88 15.6 0.0 31.4

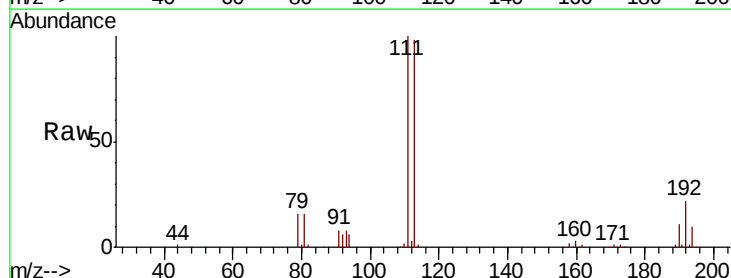


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

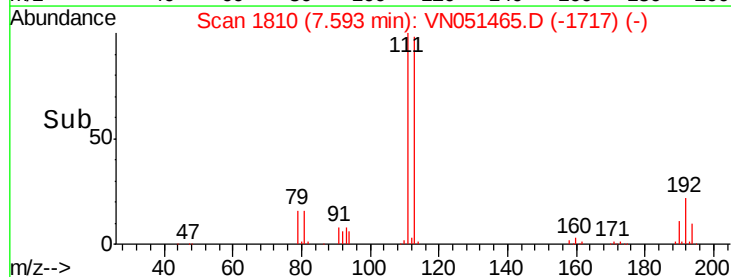
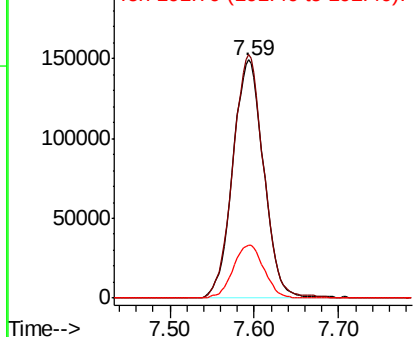


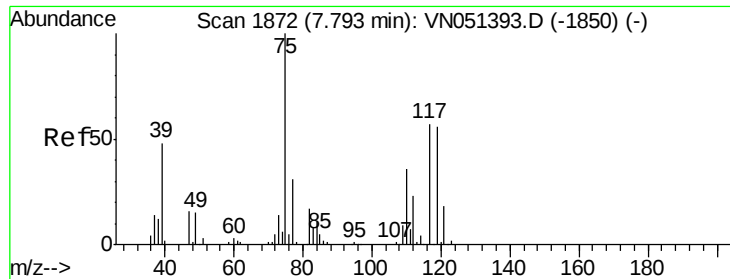
#35
Dibromofluoromethane
Concen: 48.550 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VN051465.D
Acq: 24 Sep 2018 16:46

Tgt Ion:113 Resp: 380859
Ion Ratio Lower Upper
113 100
111 101.4 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

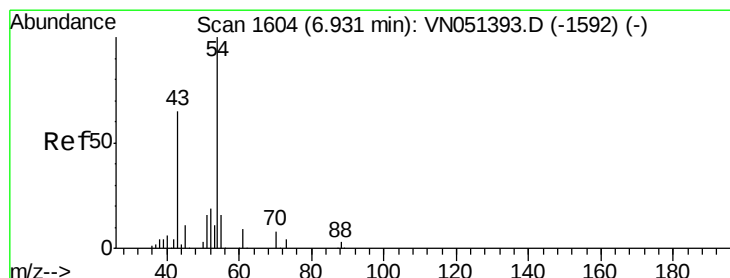
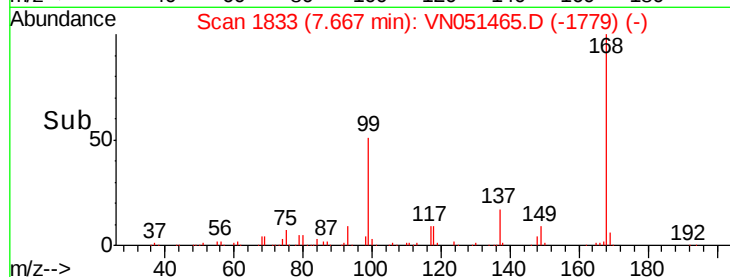
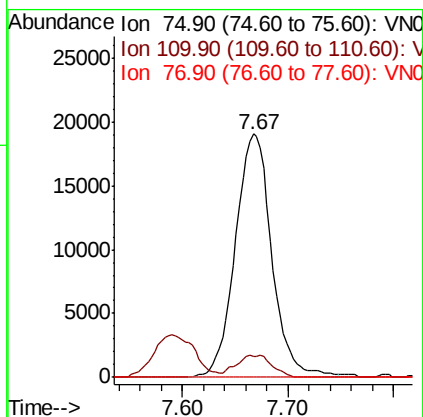
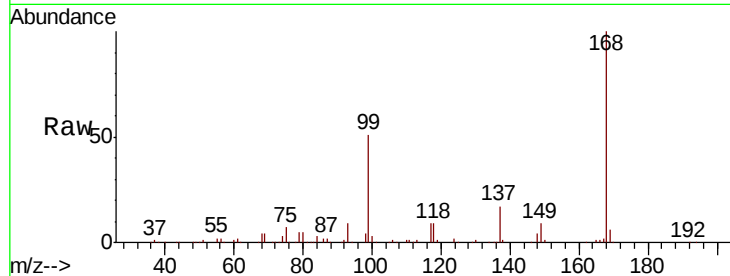




#36
 1,1-Dichloropropene
 Concen: 4.019 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051465.D
 Acq: 24 Sep 2018 16:46

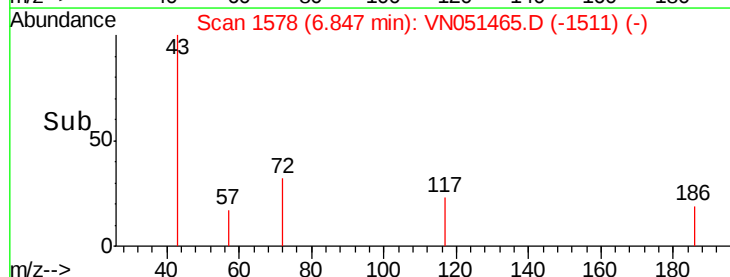
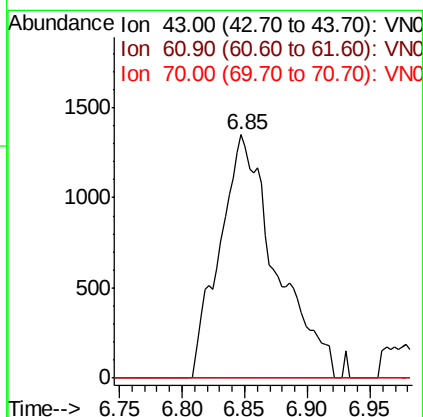
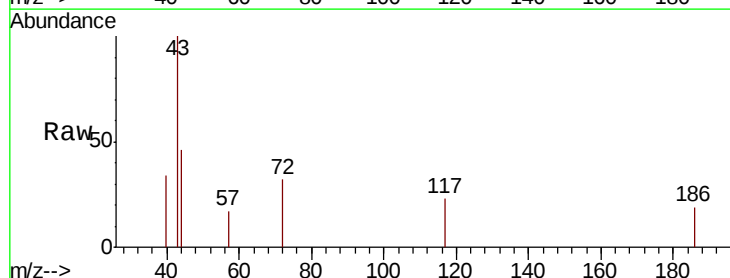
Instrument :
 MSVOA_N
 ClientSampled :
 PHASE-2

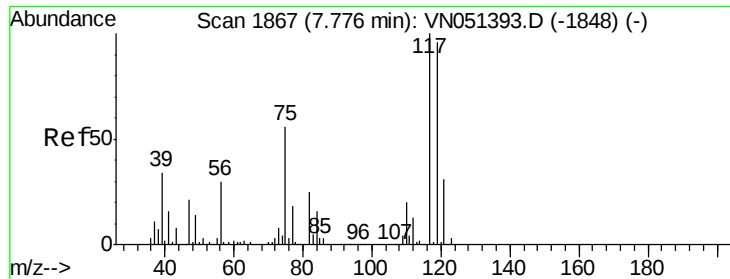
Tot Ion: 75 Resp: 45657
 Ion Ratio Lower Upper
 75 100
 110 8.8 18.1 54.3#
 77 0.0 25.6 38.4#



#37
 Ethyl Acetate
 Concen: 0.647 ug/l
 RT: 6.85 min Scan# 1578
 Delta R.T. -0.08 min
 Lab File: VN051465.D
 Acq: 24 Sep 2018 16:46

Tgt Ion: 43 Resp: 4228
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.5 17.3#
 70 0.0 7.9 11.9#

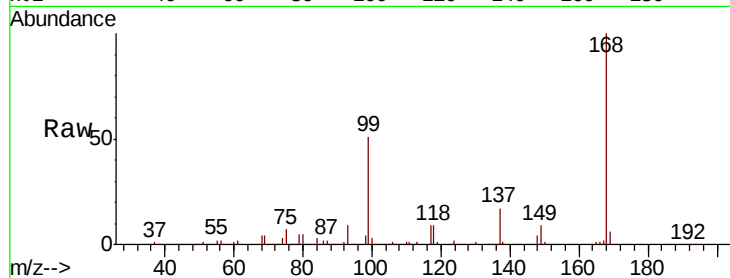




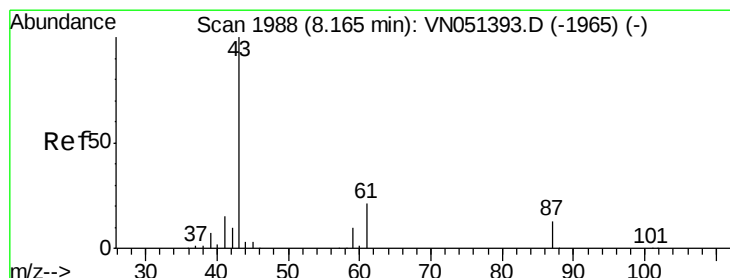
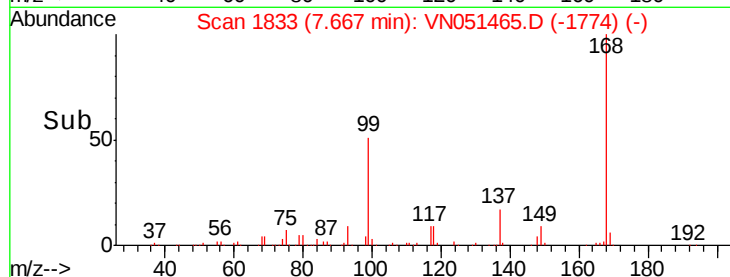
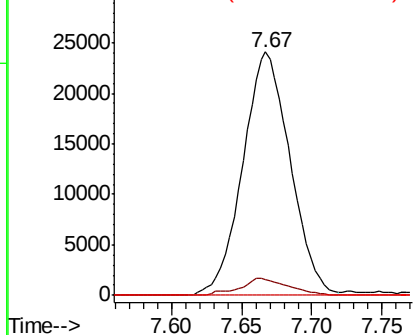
#38
Carbon Tetrachloride
Concen: 4.752 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051465.D
Acq: 24 Sep 2018 16:46

Instrument :
MSVOA_N
ClientSampleId :
PHASE-2

Tot Ion:117 Resp: 56464
Ion Ratio Lower Upper
117 100
119 6.2 76.9 115.3#
121 0.0 24.6 37.0#

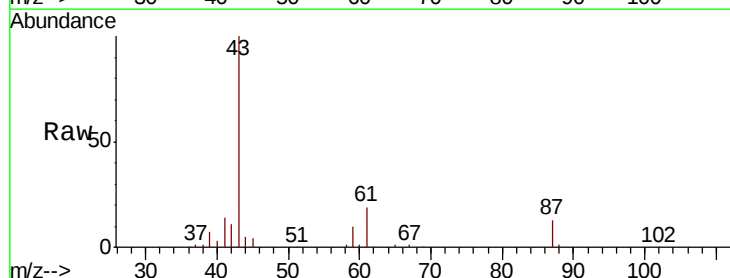


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

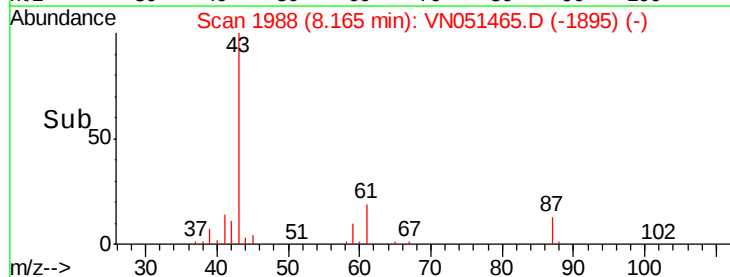
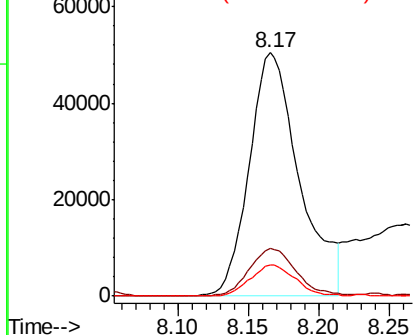


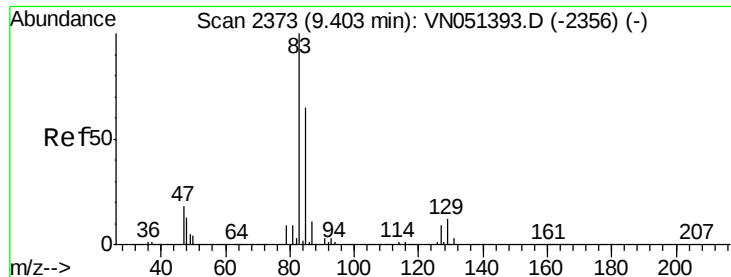
#43
Isopropyl Acetate
Concen: 10.661 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VN051465.D
Acq: 24 Sep 2018 16:46

Tgt Ion: 43 Resp: 125918
Ion Ratio Lower Upper
43 100
61 18.3 16.8 25.2
87 11.5 10.7 16.1



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO





#47

Bromodichloromethane

Concen: 0.375 ug/l

RT: 9.41 min Scan# 2376

Delta R.T. 0.01 min

Lab File: VN051465.D

Acq: 24 Sep 2018 16:46

Instrument :

MSVOA_N

ClientSampled :

PHASE-2

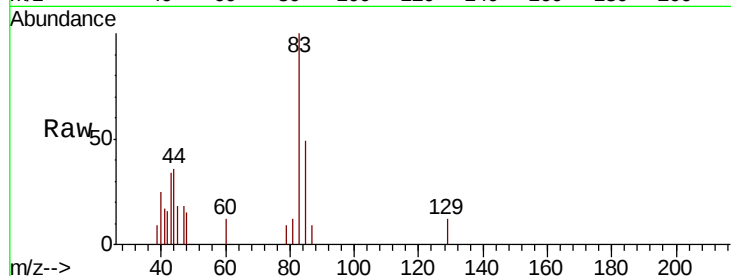
Tot Ion: 83 Resp: 4257

Ion Ratio Lower Upper

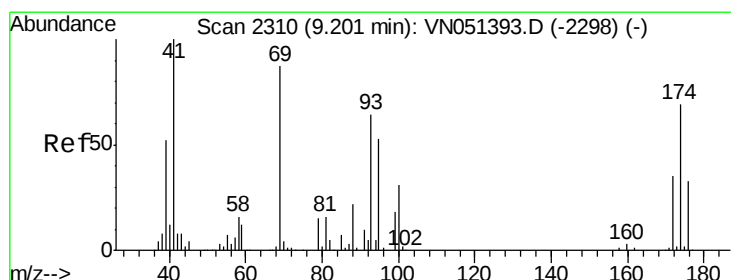
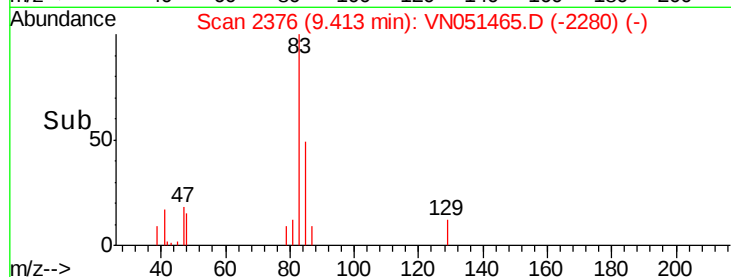
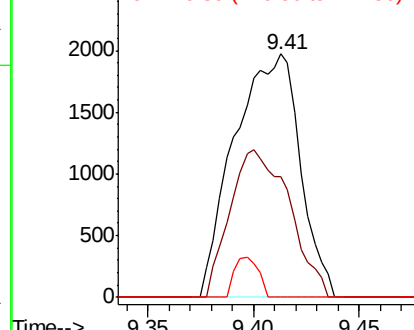
83 100

85 49.4 51.8 77.6#

127 0.0 7.4 11.2#



Abundance Ion 82.90 (82.60 to 83.60): VNC
Ion 84.90 (84.60 to 85.60): VNC
Ion 126.80 (126.50 to 127.50): VNC



#48

Methyl methacrylate

Concen: 0.762 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN051465.D

Acq: 24 Sep 2018 16:46

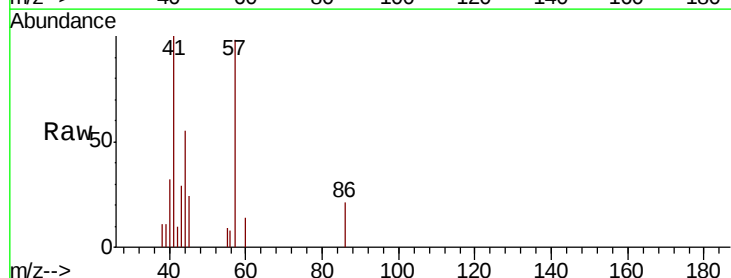
Tgt Ion: 41 Resp: 4490

Ion Ratio Lower Upper

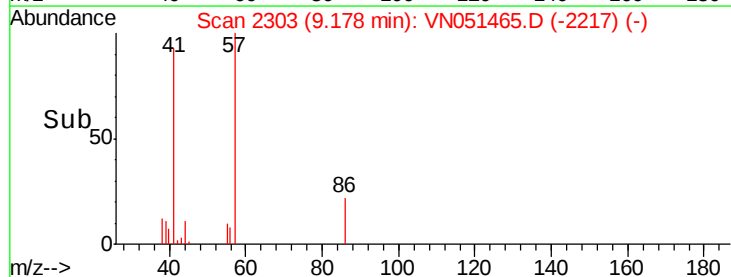
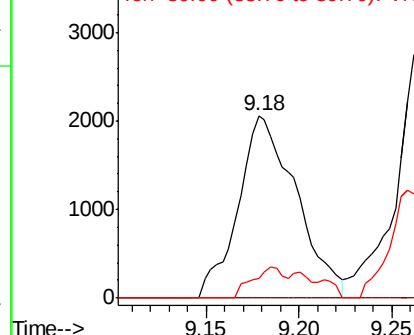
41 100

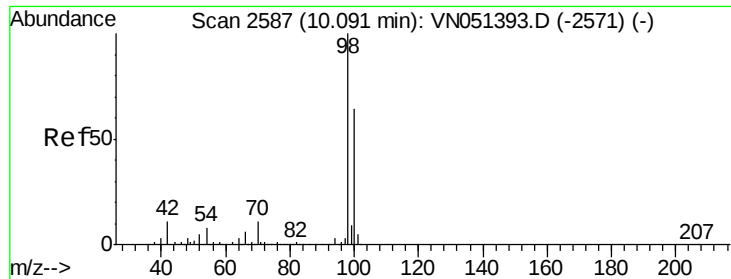
69 0.0 70.4 105.6#

39 9.6 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: 47.029 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051465.D

Acq: 24 Sep 2018 16:46

Instrument :

MSVOA_N

ClientSampled :

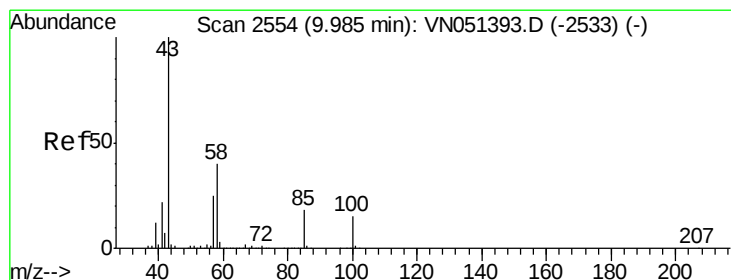
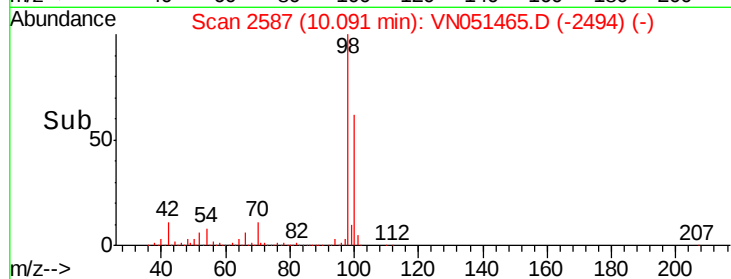
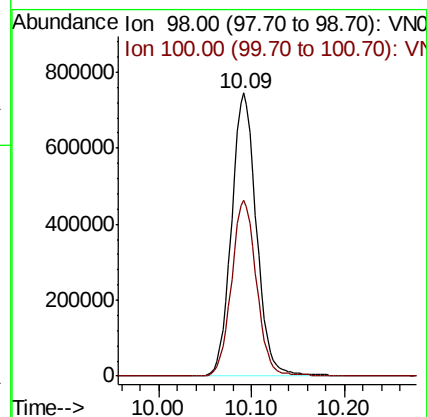
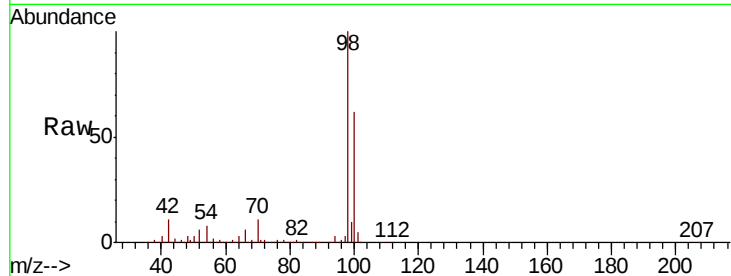
PHASE-2

Tot Ion: 98 Resp: 1389250

Ion Ratio Lower Upper

98 100

100 62.4 50.6 75.8



#51

4-Methyl-2-Pentanone

Concen: 0.308 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051465.D

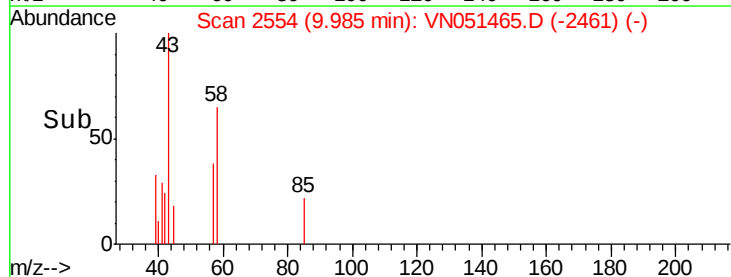
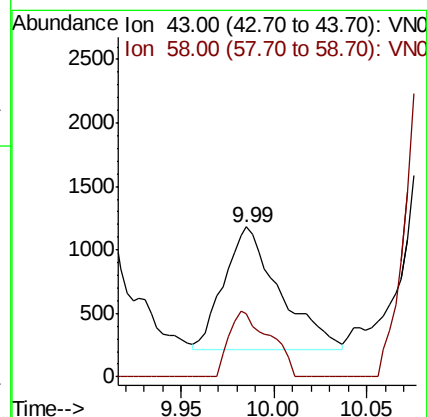
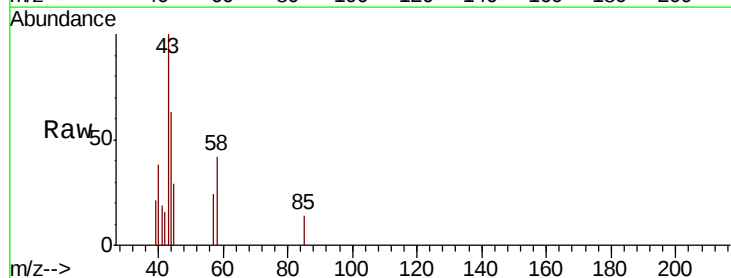
Acq: 24 Sep 2018 16:46

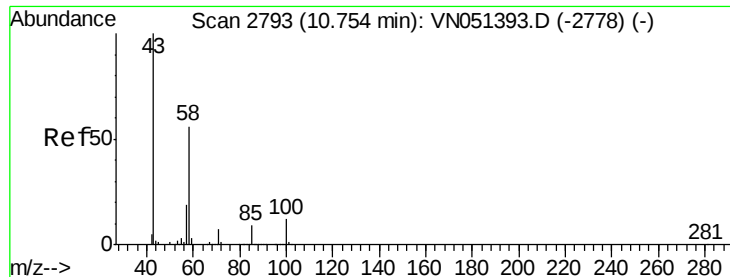
Tgt Ion: 43 Resp: 1999

Ion Ratio Lower Upper

43 100

58 39.4 31.5 47.3

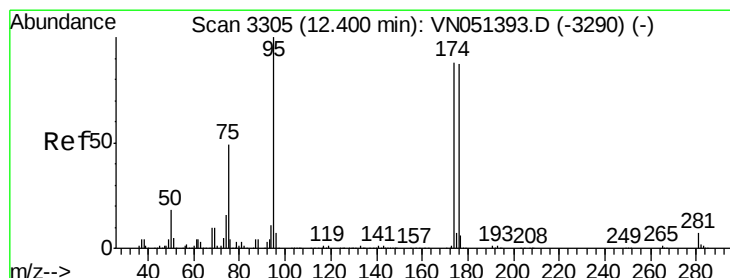
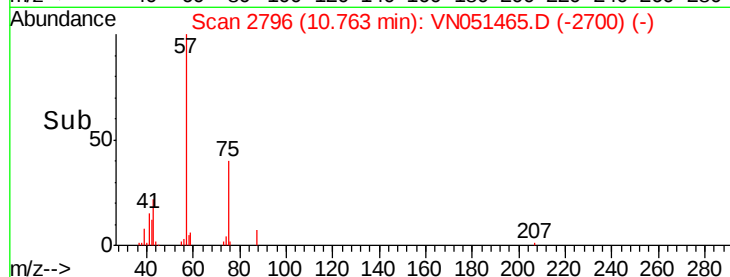
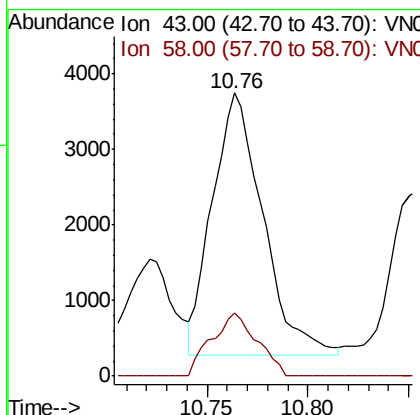
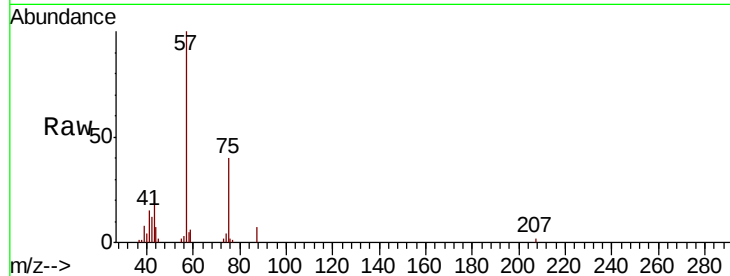




#59
2-Hexanone
Concen: 1.433 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN051465.D
Acq: 24 Sep 2018 16:46

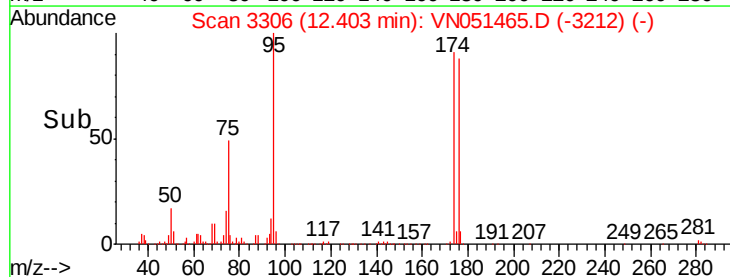
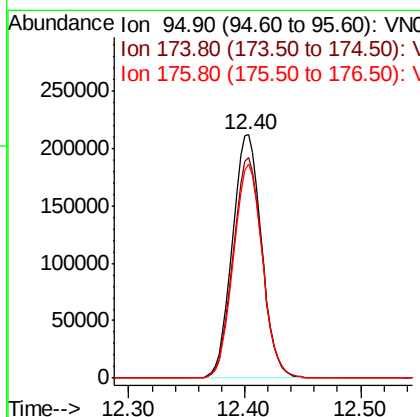
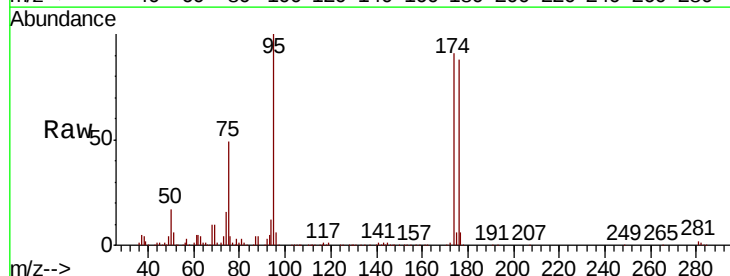
Instrument :
MSVOA_N
ClientSampled :
PHASE-2

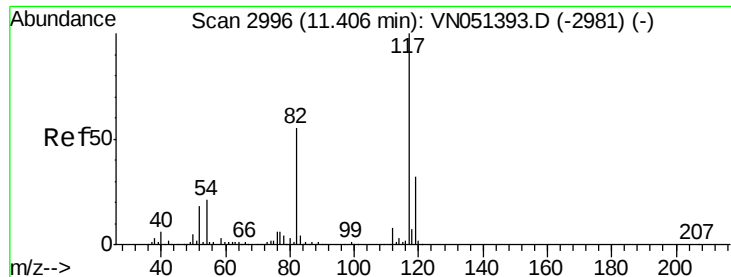
Tot Ion: 43 Resp: 6033
Ion Ratio Lower Upper
43 100
58 21.7 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 38.454 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051465.D
Acq: 24 Sep 2018 16:46

Tgt Ion: 95 Resp: 367473
Ion Ratio Lower Upper
95 100
174 90.8 0.0 181.6
176 87.7 0.0 176.4

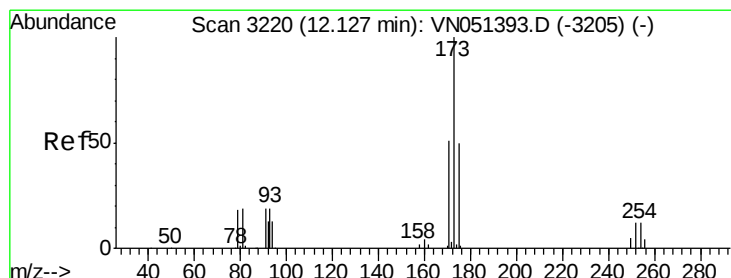
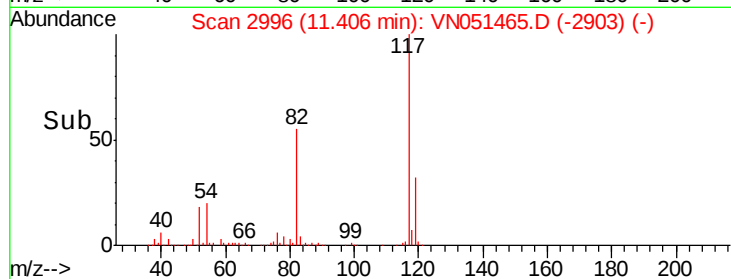
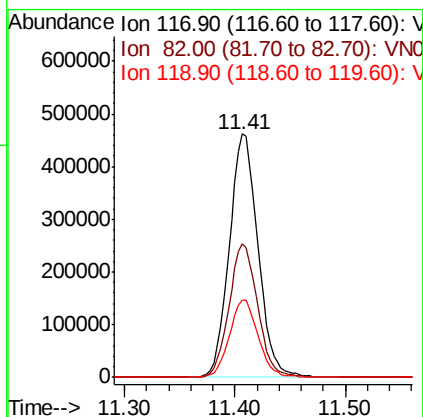
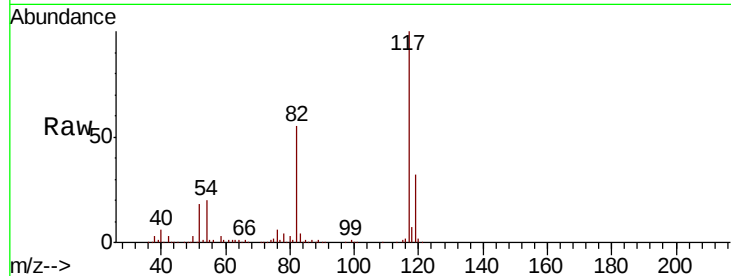




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051465.D
Acq: 24 Sep 2018 16:46

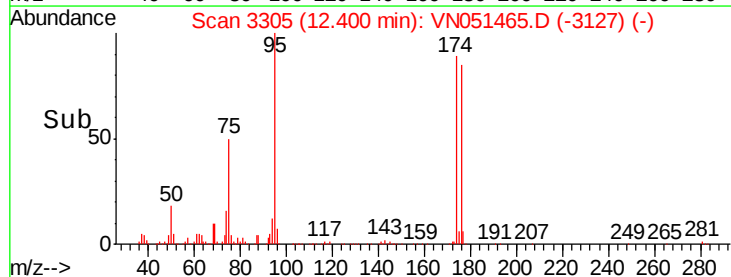
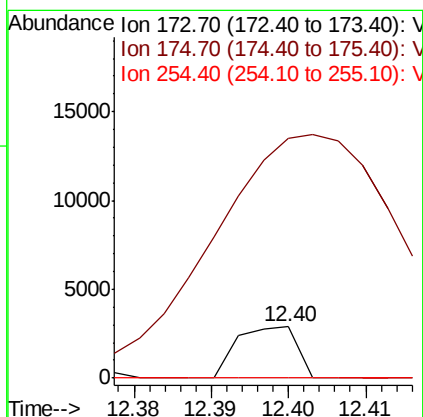
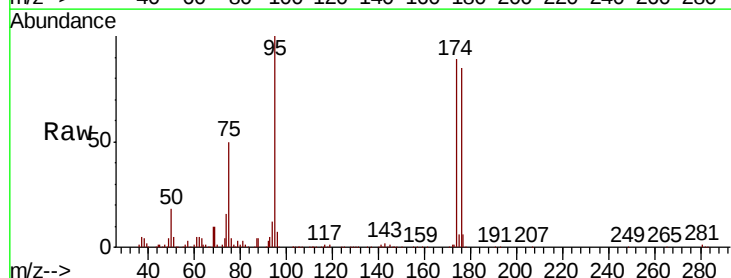
Instrument :
MSVOA_N
ClientSampled :
PHASE-2

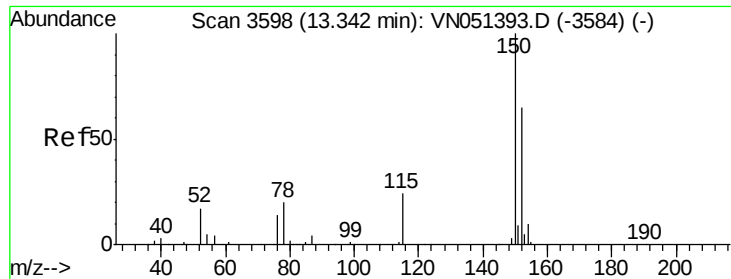
Tot Ion:117 Resp: 833095
Ion Ratio Lower Upper
117 100
82 54.6 44.2 66.2
119 31.7 25.9 38.9



#71
Bromoform
Concen: 0.282 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN051465.D
Acq: 24 Sep 2018 16:46

Tgt Ion:173 Resp: 1560
Ion Ratio Lower Upper
173 100
175 1319.5 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: VN051465.D

Acq: 24 Sep 2018 16:46

Instrument :

MSVOA_N

ClientSampleId :

PHASE-2

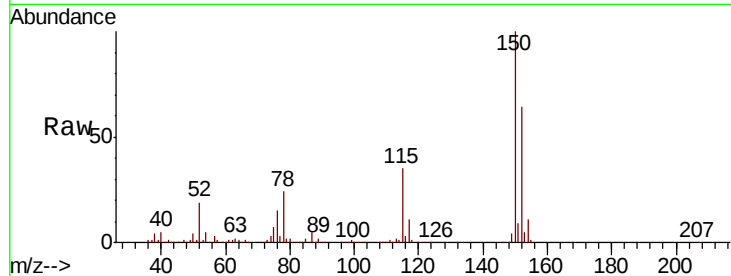
Tot Ion:152 Resp: 306661

Ion Ratio Lower Upper

152 100

115 54.8 28.3 84.9

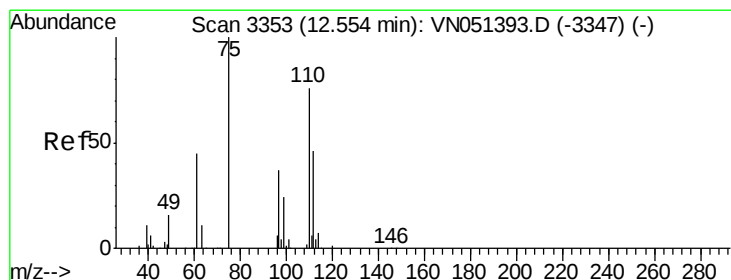
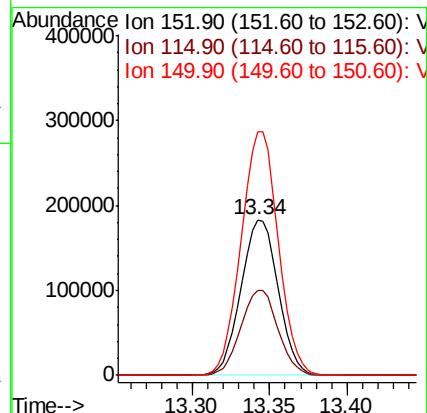
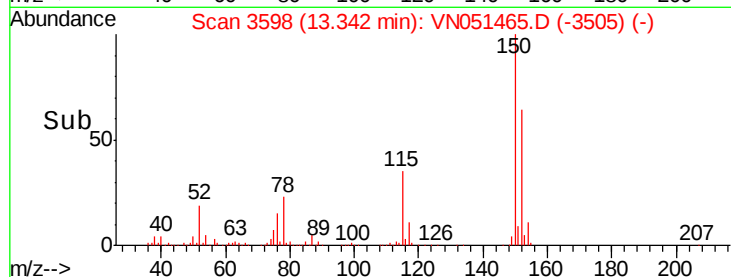
150 156.3 0.0 353.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 35.762 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051465.D

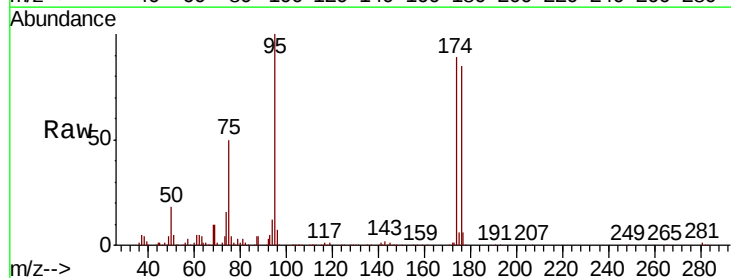
Acq: 24 Sep 2018 16:46

Tgt Ion: 75 Resp: 182057

Ion Ratio Lower Upper

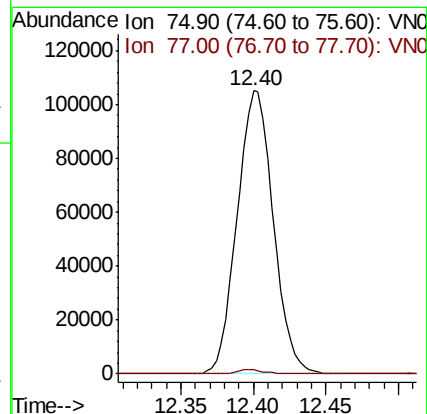
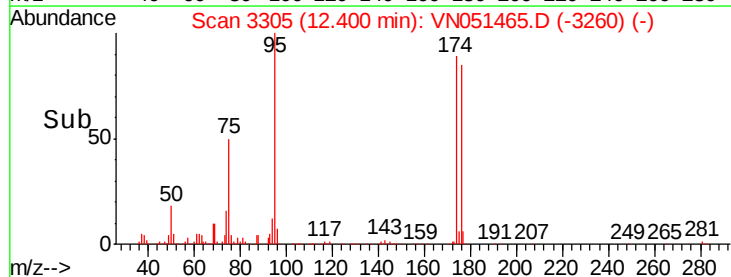
75 100

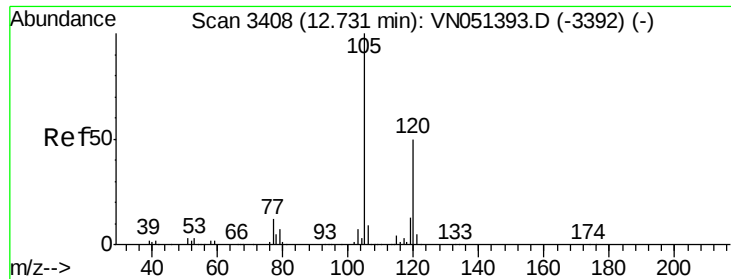
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.205 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051465.D

Acq: 24 Sep 2018 16:46

Instrument :

MSVOA_N

ClientSampled :

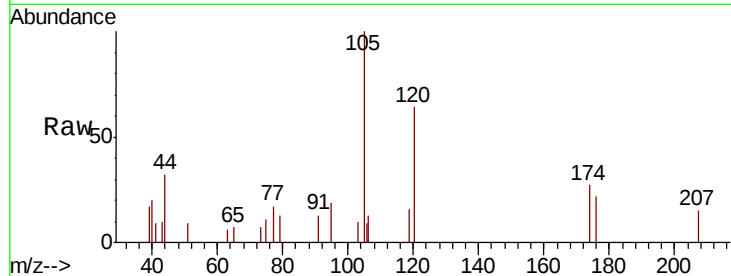
PHASE-2

Tot Ion:105 Resp: 4323

Ion Ratio Lower Upper

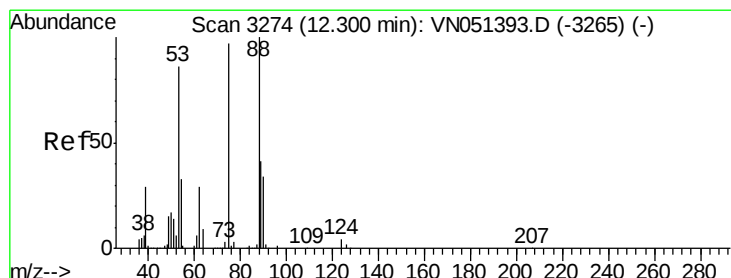
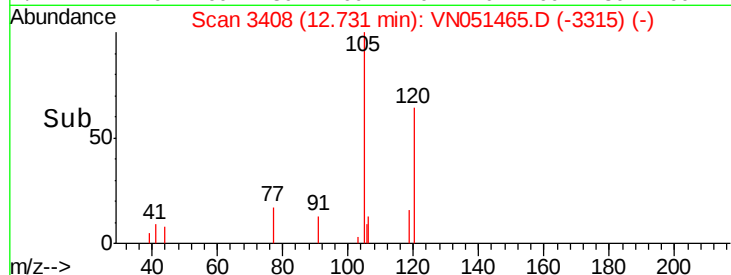
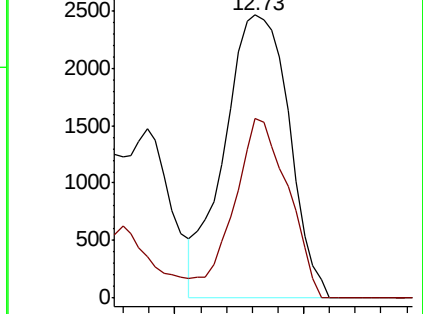
105 100

120 53.3 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 109.966 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051465.D

Acq: 24 Sep 2018 16:46

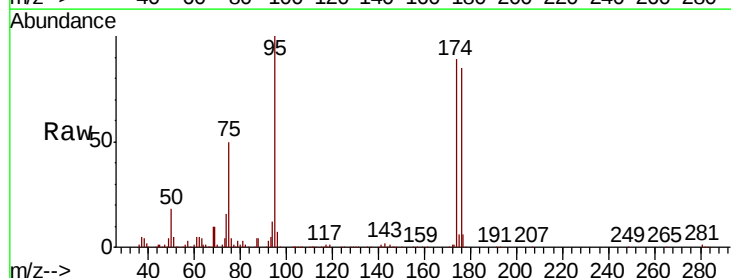
Tgt Ion: 75 Resp: 182057

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

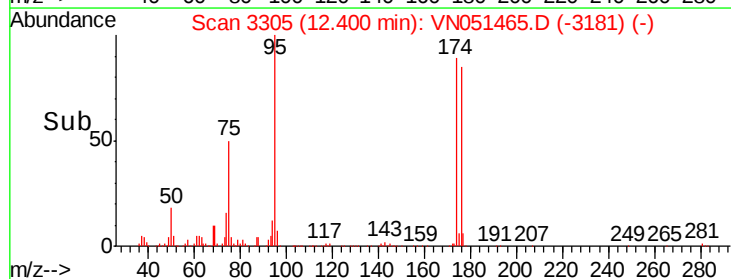
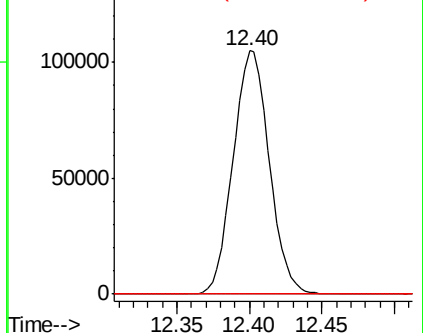
89 0.0 36.7 55.1#

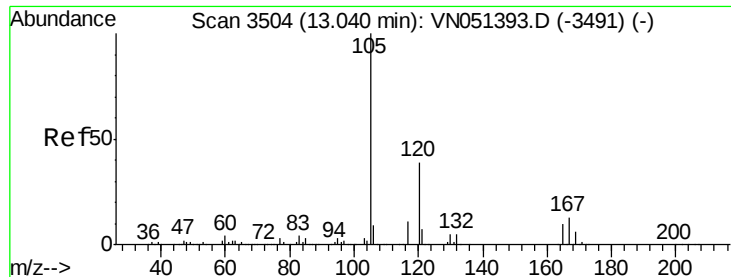


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#84

1,2,4-Trimethylbenzene

Concen: 0.617 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN051465.D

Acq: 24 Sep 2018 16:46

Instrument :

MSVOA_N

ClientSampled :

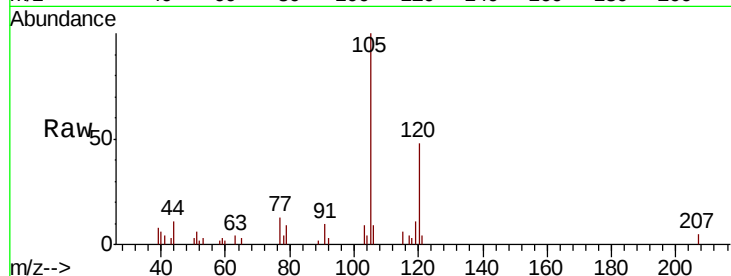
PHASE-2

Tot Ion:105 Resp: 13118

Ion Ratio Lower Upper

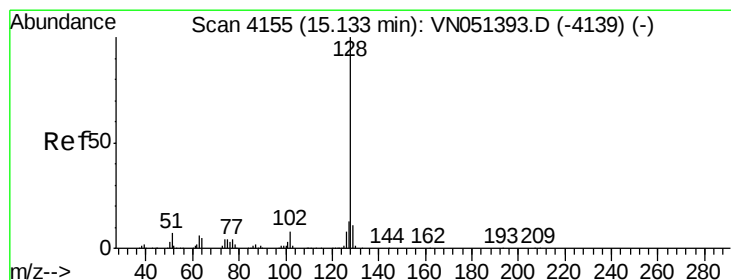
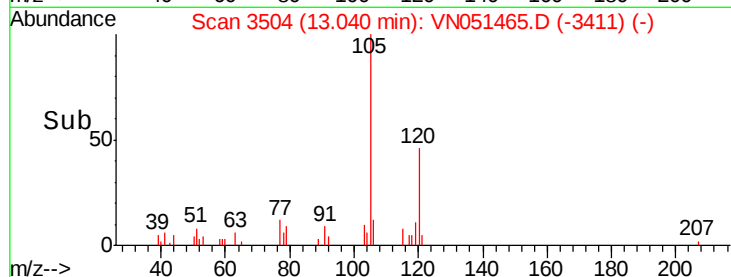
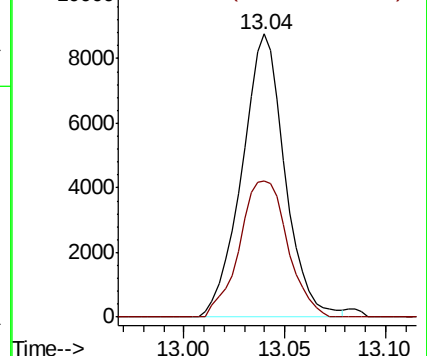
105 100

120 53.6 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: 9.496 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051465.D

Acq: 24 Sep 2018 16:46

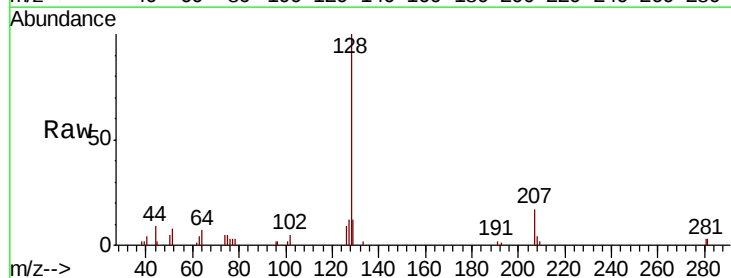
Tgt Ion:128 Resp: 19730

Ion Ratio Lower Upper

128 100

127 13.4 10.5 15.7

129 10.4 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

