

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100918\
 Data File : VN051765.D
 Acq On : 9 Oct 2018 22:15
 Operator : MD\SY
 Sample : PB113645ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113645ZHE#05

Quant Time: Oct 10 03:36:20 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 09 06:03:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	713636	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1050031	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	925544	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	362323	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	427405	45.34	ug/l	0.00
Spiked Amount			Recovery	=	90.68%	
35) Dibromofluoromethane	7.60	113	386003	47.55	ug/l	0.00
Spiked Amount			Recovery	=	95.10%	
50) Toluene-d8	10.09	98	1499778	49.52	ug/l	0.00
Spiked Amount			Recovery	=	99.04%	
62) 4-Bromofluorobenzene	12.40	95	426725	39.80	ug/l	0.00
Spiked Amount			Recovery	=	79.60%	

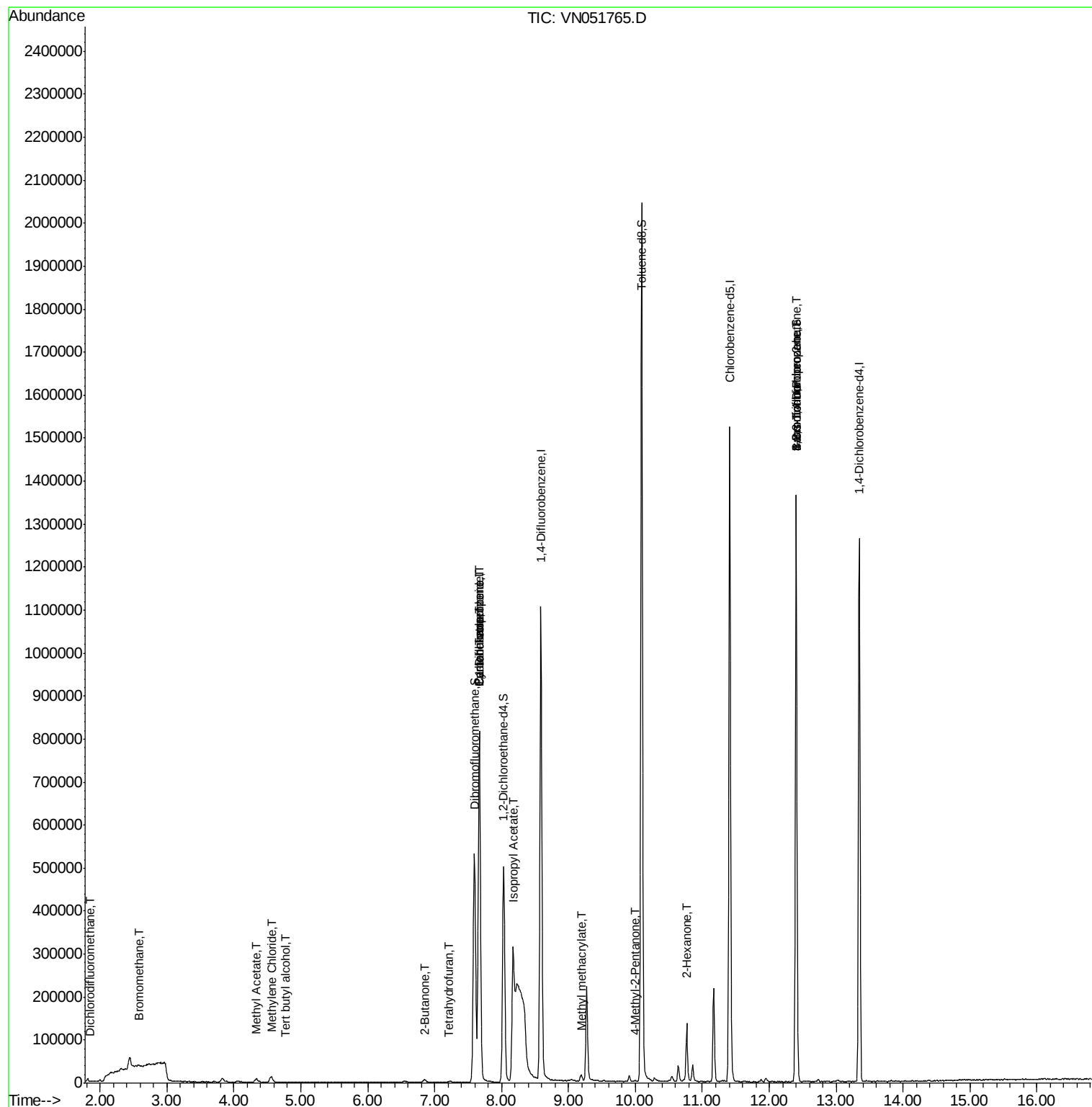
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	30	1.152	ug/l #	42
5) Bromomethane	2.57	94	2010	0.204	ug/l	93
7) Trichlorofluoromethane	2.90	101	30	Below Cal		92
11) Tert butyl alcohol	4.78	59	561	0.876	ug/l #	73
13) Acrolein	3.60	56	30	Below Cal	#	1
16) Acetone	3.82	43	15736	Below Cal		98
18) Methyl Acetate	4.34	43	15847	3.045	ug/l #	83
20) Methylene Chloride	4.56	84	8882	1.145	ug/l	87
25) 2-Butanone	6.85	43	7472	2.745	ug/l	96
29) Tetrahydrofuran	7.21	42	529	0.317	ug/l #	64
31) Cyclohexane	7.67	56	13690	1.070	ug/l #	25
36) 1,1-Dichloropropene	7.67	75	45595	4.154	ug/l #	49
38) Carbon Tetrachloride	7.67	117	65438	4.969	ug/l #	15
41) Methacrylonitrile	7.18	41	130	Below Cal	#	18
43) Isopropyl Acetate	8.17	43	436728	36.594	ug/l #	87
48) Methyl methacrylate	9.18	41	7850	1.439	ug/l #	17
51) 4-Methyl-2-Pentanone	9.99	43	2401	0.397	ug/l	99
59) 2-Hexanone	10.77	43	21638	5.268	ug/l #	52
71) Bromoform	12.40	173	3800	0.557	ug/l #	1
74) N-amyl acetate	12.07	43	177	Below Cal	#	46
75) 1,1,2,2-Tetrachloroethane	12.39	83	331	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	226766	50.403	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	226766	115.047	ug/l #	14

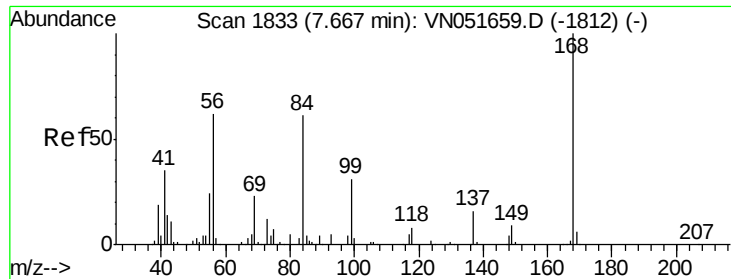
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
Quant Title : SW846 8260
QLast Update : Tue Oct 09 06:03:49 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: VN051765.D

Acq: 9 Oct 2018 22:15

Instrument :

MSVOA_N

ClientSampleId :

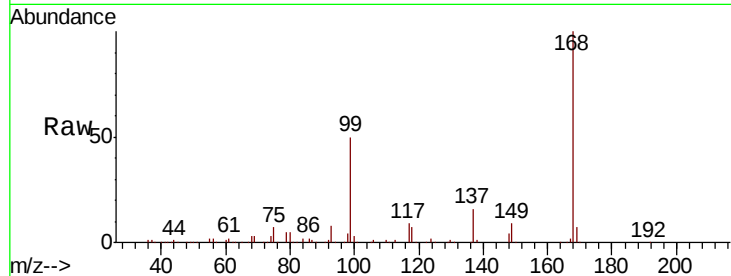
PB113645ZHE#05

Tot Ion:168 Resp: 713636

Ion Ratio Lower Upper

168 100

99 50.1 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): VN051765.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051765.D (-1740) (-)

7.67

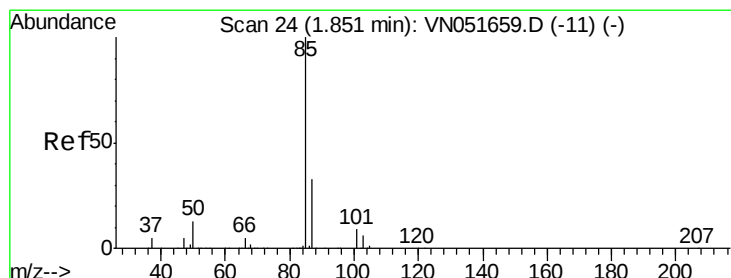
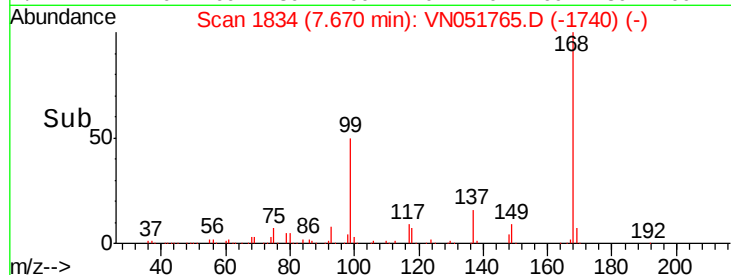
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.152 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN051765.D

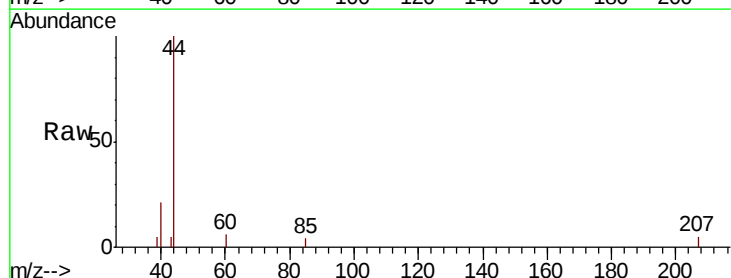
Acq: 9 Oct 2018 22:15

Tgt Ion: 85 Resp: 30

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.4#



Abundance Ion 84.90 (84.60 to 85.60): VN051765.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VN051765.D (-1) (-)

1.85

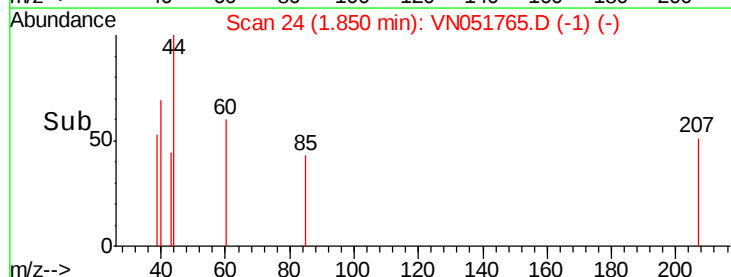
150

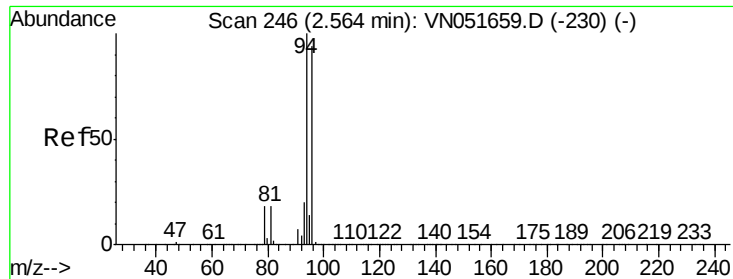
100

50

0

Time-->





#5

Bromomethane

Concen: 0.204 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051765.D

Acq: 9 Oct 2018 22:15

Instrument :

MSVOA_N

ClientSampleId :

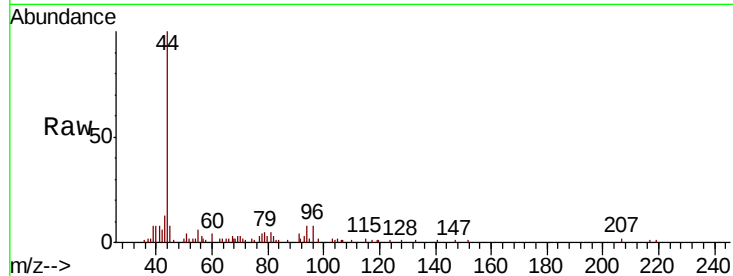
PB113645ZHE#05

Tot Ion: 94 Resp: 2010

Ion Ratio Lower Upper

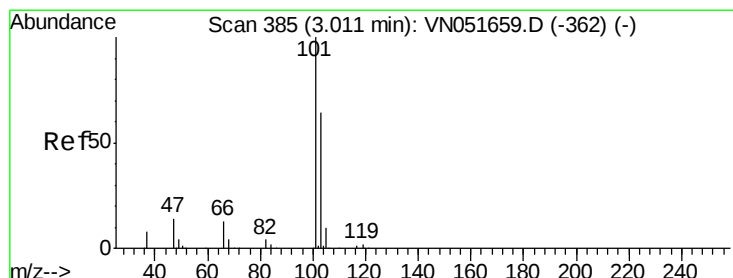
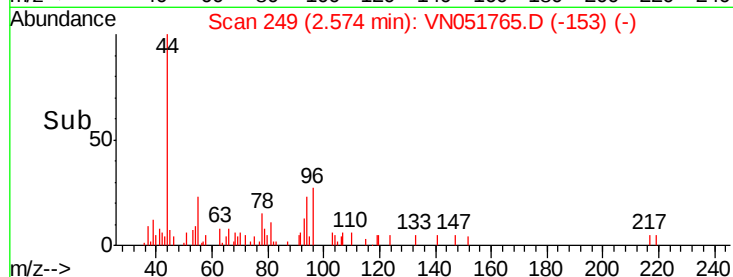
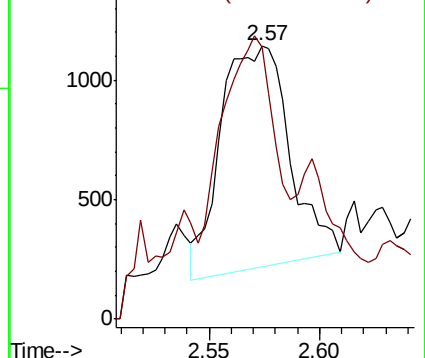
94 100

96 87.6 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.90 min Scan# 350

Delta R.T. -0.11 min

Lab File: VN051765.D

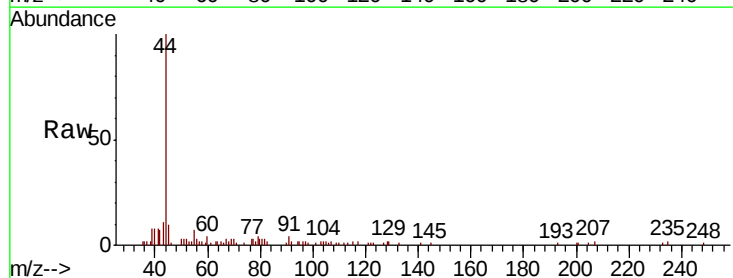
Acq: 9 Oct 2018 22:15

Tgt Ion: 101 Resp: 30

Ion Ratio Lower Upper

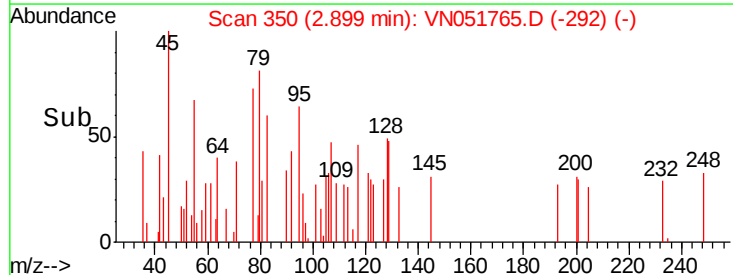
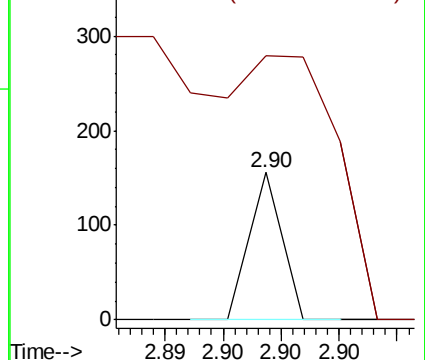
101 100

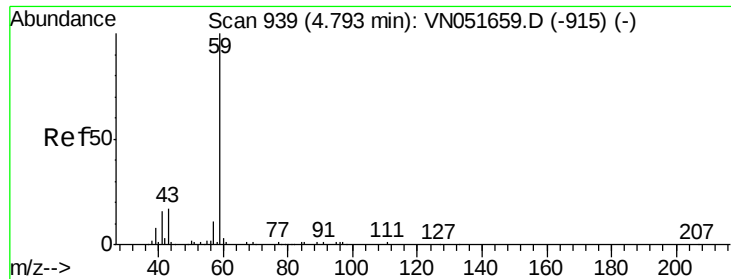
103 57.7 51.1 76.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

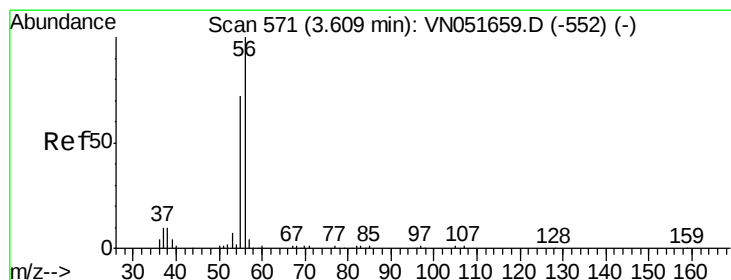
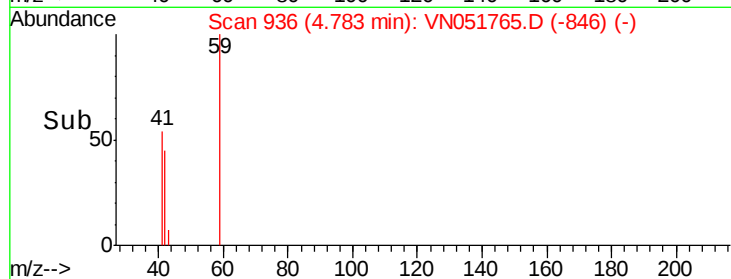
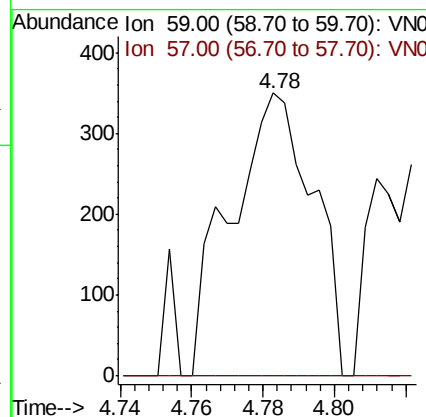
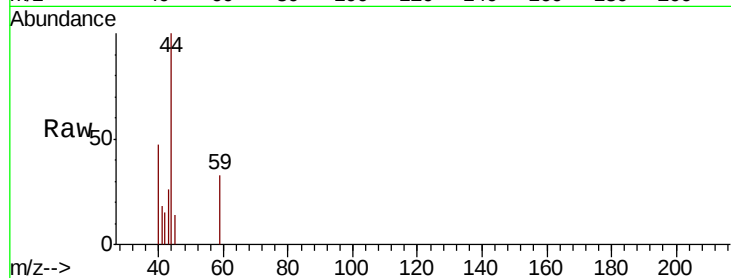




#11
Tert butyl alcohol
Concen: 0.876 ug/l
RT: 4.78 min Scan# 936
Delta R.T. -0.01 min
Lab File: VN051765.D
Acq: 9 Oct 2018 22:15

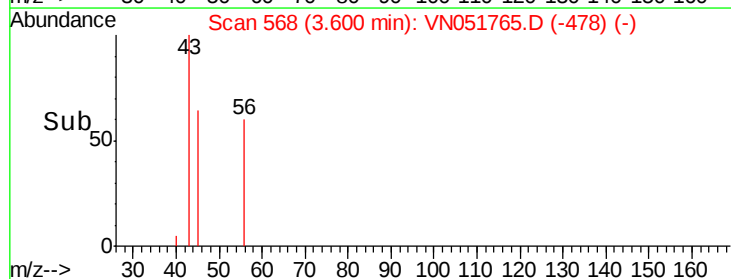
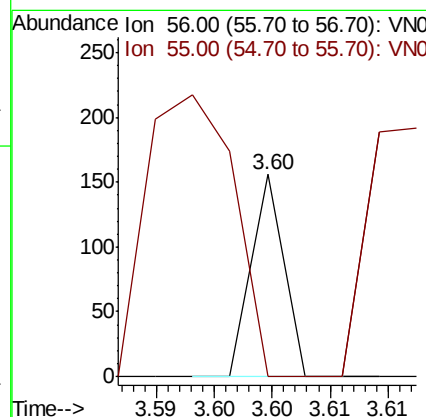
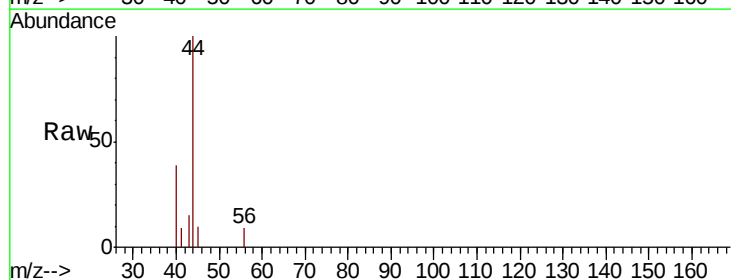
Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#05

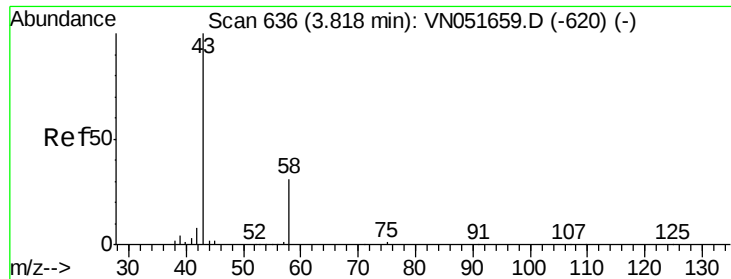
Tot Ion: 59 Resp: 561
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#13
Acrolein
Concen: Below Cal
RT: 3.60 min Scan# 568
Delta R.T. -0.01 min
Lab File: VN051765.D
Acq: 9 Oct 2018 22:15

Tgt Ion: 56 Resp: 30
Ion Ratio Lower Upper
56 100
55 380.0 57.5 86.3#





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051765.D

Acq: 9 Oct 2018 22:15

Instrument :

MSVOA_N

ClientSampleId :

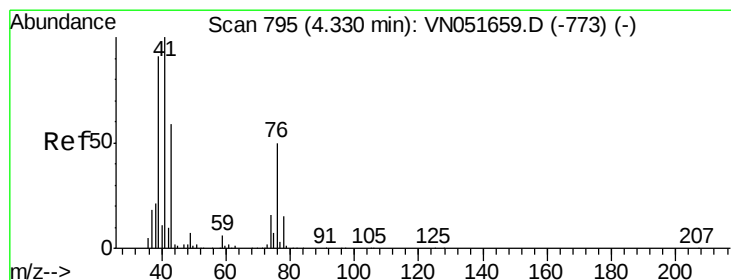
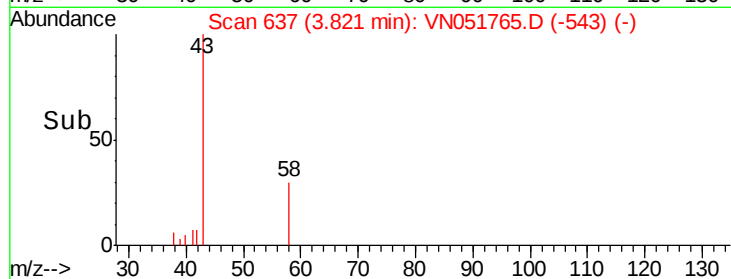
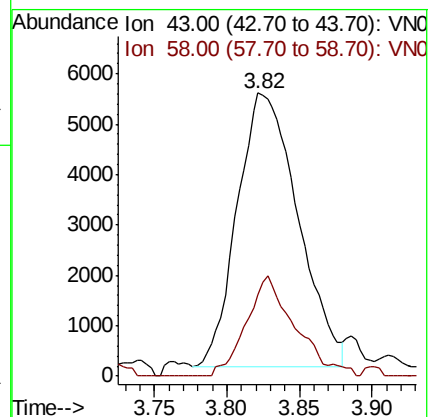
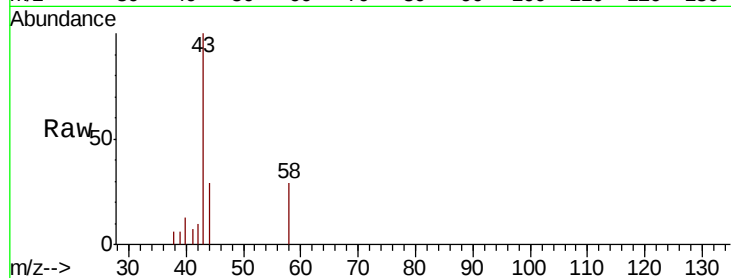
PB113645ZHE#05

Tot Ion: 43 Resp: 15736

Ion Ratio Lower Upper

43 100

58 29.6 24.3 36.5



#18

Methyl Acetate

Concen: 3.045 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN051765.D

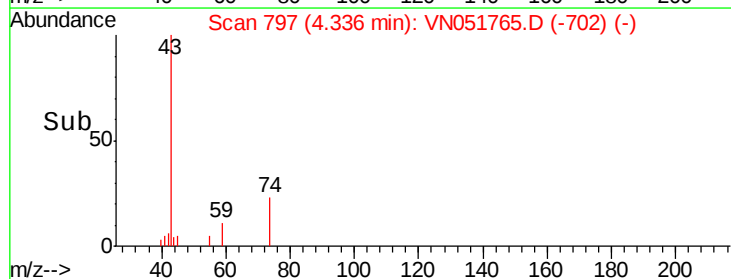
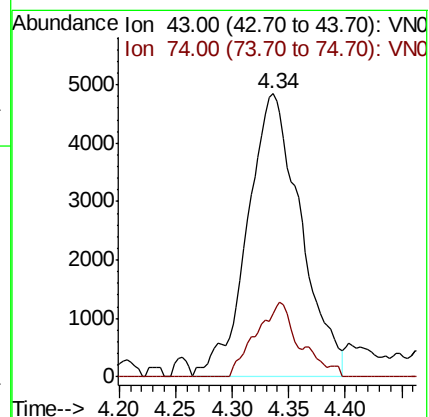
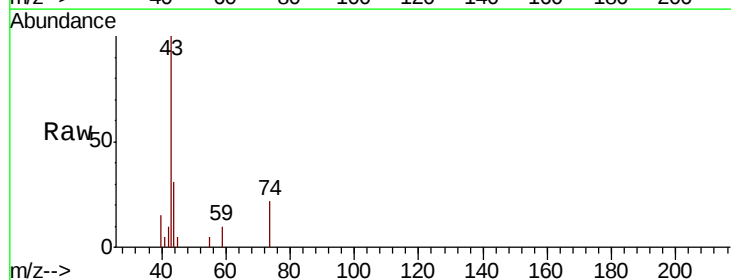
Acq: 9 Oct 2018 22:15

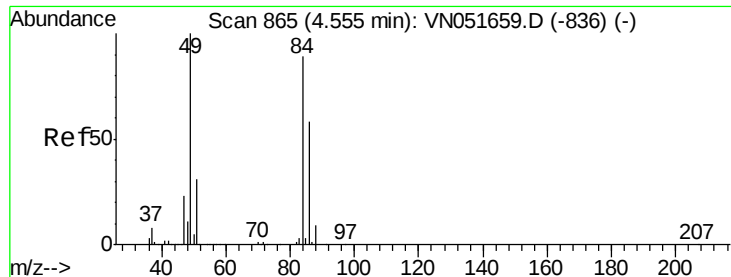
Tgt Ion: 43 Resp: 15847

Ion Ratio Lower Upper

43 100

74 18.2 21.5 32.3#

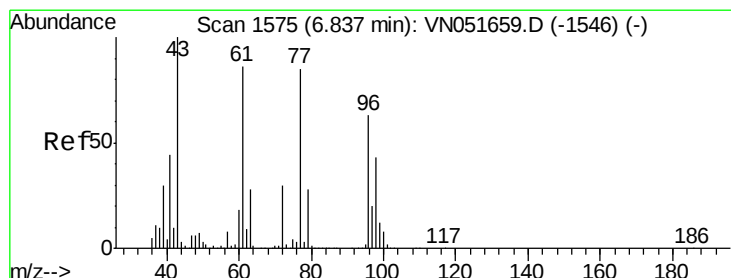
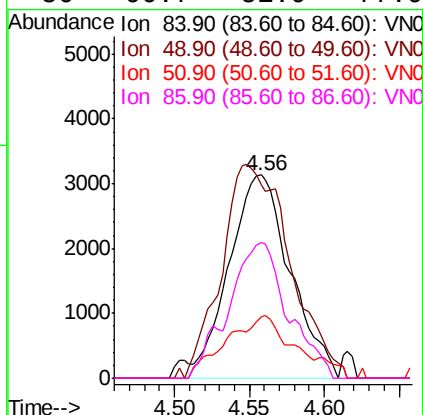
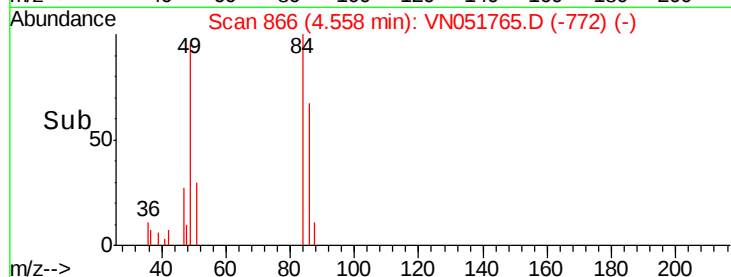
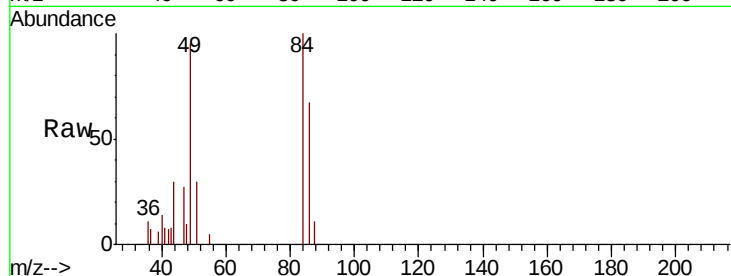




#20
Methvlene Chloride
Concen: 1.145 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN051765.D
Acq: 9 Oct 2018 22:15

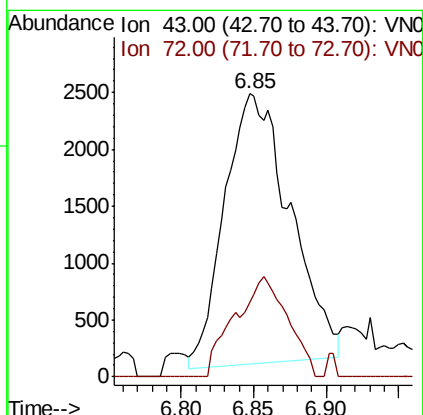
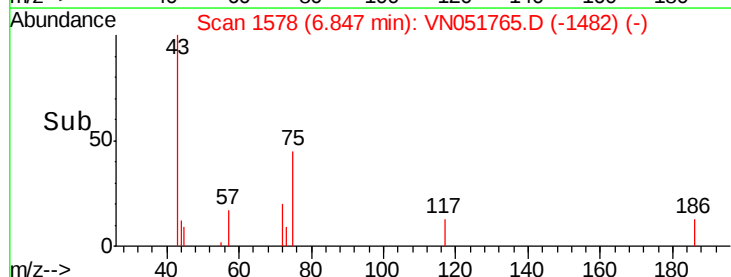
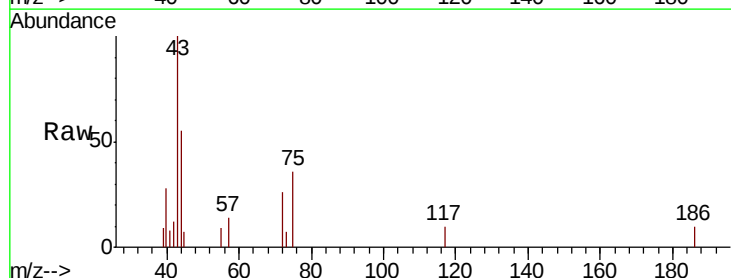
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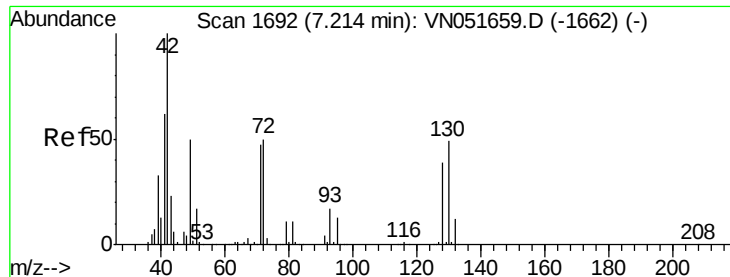
Tot Ion:	84	Resp:	8882
Ion	Ratio	Lower	Upper
84	100		
49	89.7	89.5	134.3
51	30.0	27.4	41.0
86	66.7	51.9	77.9



#25
2-Butanone
Concen: 2.745 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN051765.D
Acq: 9 Oct 2018 22:15

Tgt Ion:	43	Resp:	7472
Ion	Ratio	Lower	Upper
43	100		
72	28.2	24.2	36.2

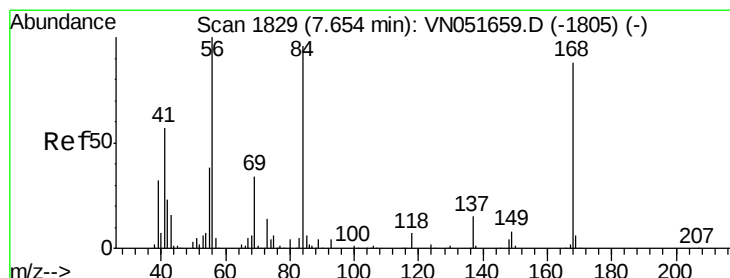
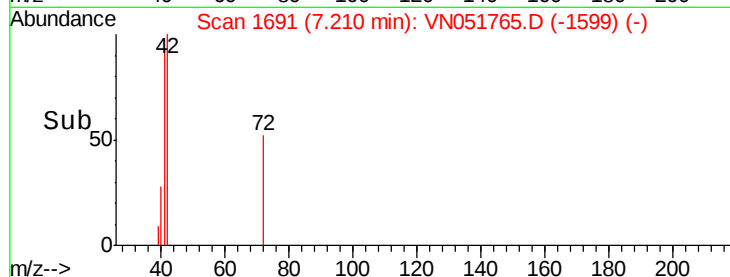
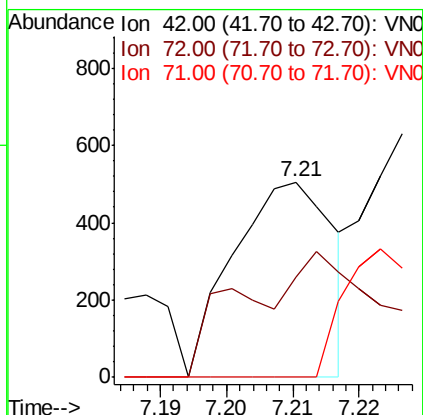
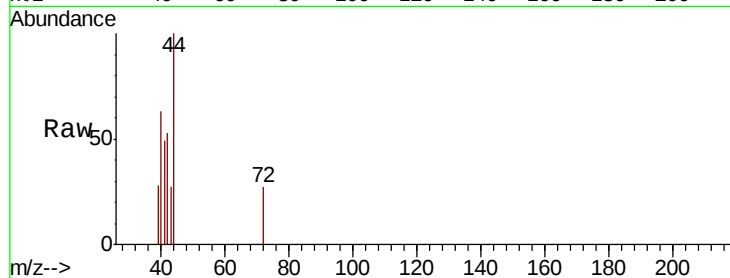




#29
Tetrahydrofuran
Concen: 0.317 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. -0.00 min
Lab File: VN051765.D
Acq: 9 Oct 2018 22:15

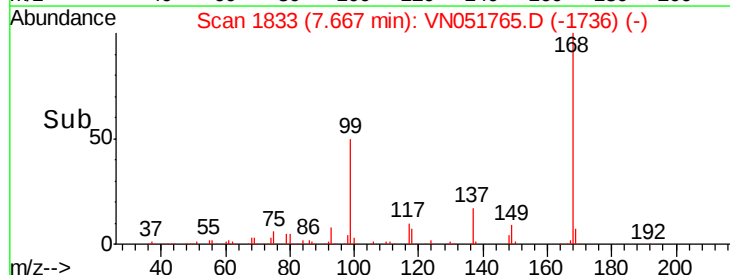
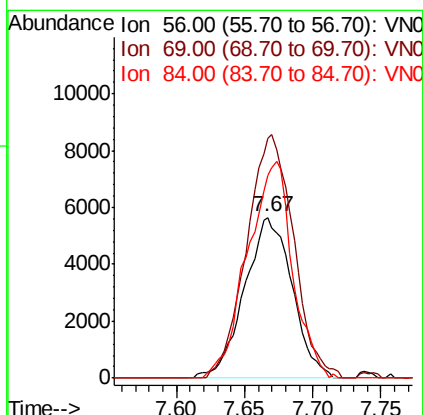
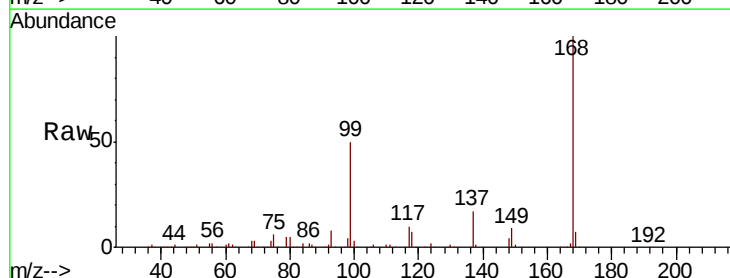
Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#05

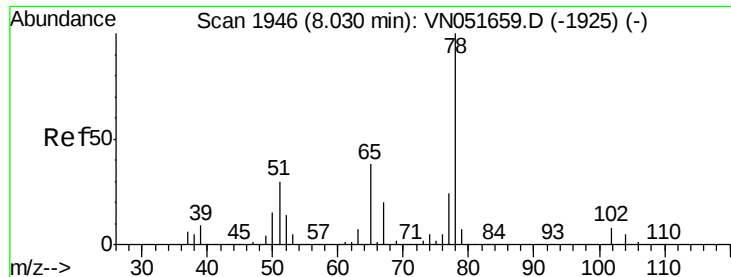
Tot Ion: 42 Resp: 529
Ion Ratio Lower Upper
42 100
72 52.7 40.1 60.1
71 0.0 38.0 57.0#



#31
Cyclohexane
Concen: 1.070 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051765.D
Acq: 9 Oct 2018 22:15

Tgt Ion: 56 Resp: 13690
Ion Ratio Lower Upper
56 100
69 149.4 27.5 41.3#
84 126.1 76.7 115.1#





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. -0.00 min

Lab File: VN051765.D

Acq: 9 Oct 2018 22:15

Instrument :

MSVOA_N

ClientSampleId :

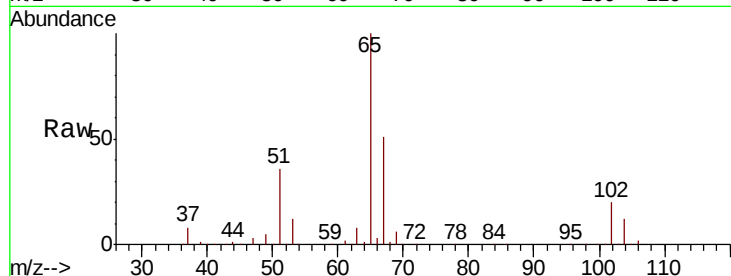
PB113645ZHE#05

Tot Ion: 65 Resp: 427405

Ion Ratio Lower Upper

65 100

67 50.4 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VN051765.D (-1853) (-)

Ion 66.90 (66.60 to 67.60): VN051765.D (-1853) (-)

8.03

200000

150000

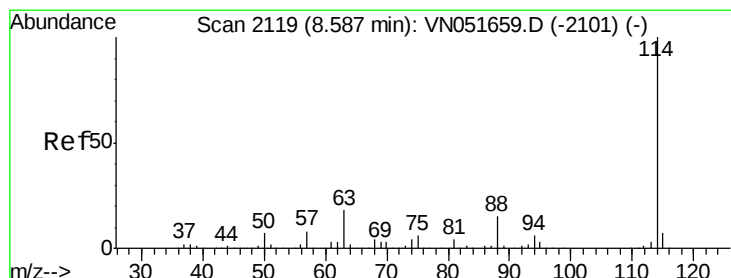
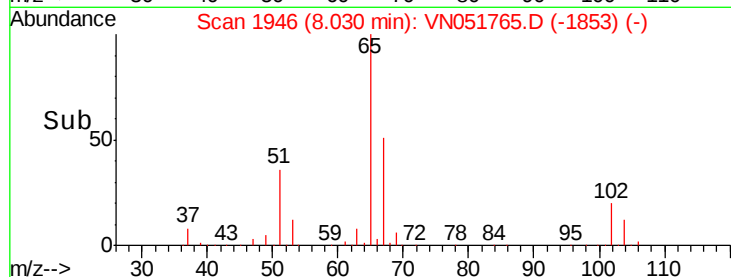
100000

50000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051765.D

Acq: 9 Oct 2018 22:15

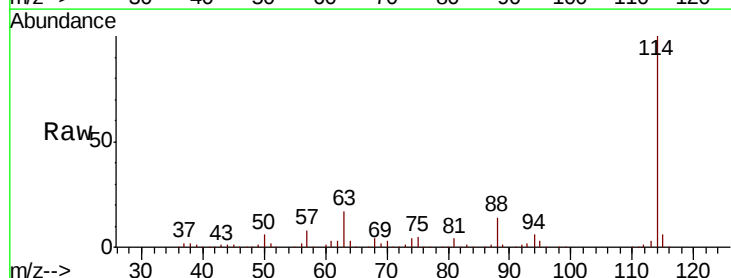
Tgt Ion:114 Resp: 1050031

Ion Ratio Lower Upper

114 100

63 17.2 0.0 36.2

88 14.0 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): VN051765.D (-2026) (-)

Ion 63.00 (62.70 to 63.70): VN051765.D (-2026) (-)

Ion 87.90 (87.60 to 88.60): VN051765.D (-2026) (-)

8.59

600000

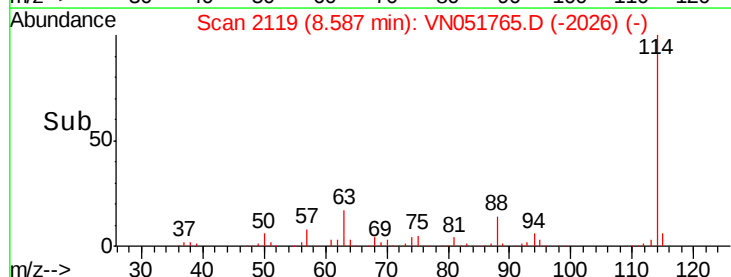
400000

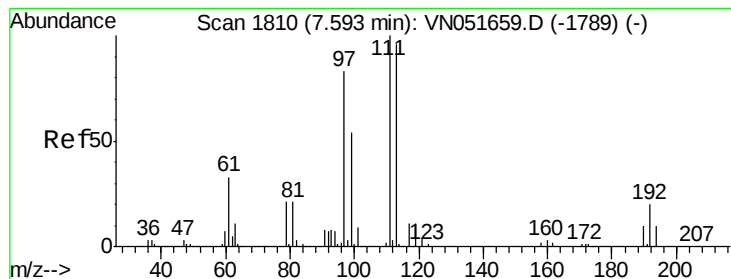
200000

0

8.50 8.60 8.70 8.80

Time-->





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.60 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VN051765.D

Acq: 9 Oct 2018 22:15

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#05

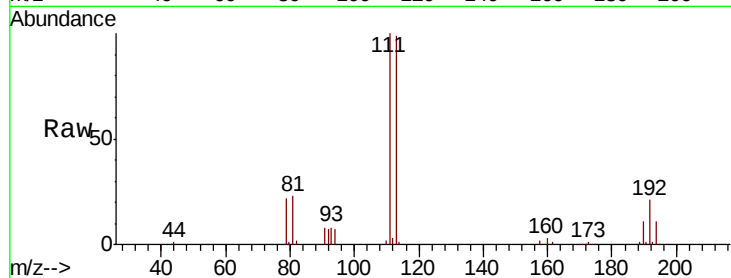
Tot Ion:113 Resp: 386003

Ion Ratio Lower Upper

113 100

111 103.2 81.8 122.8

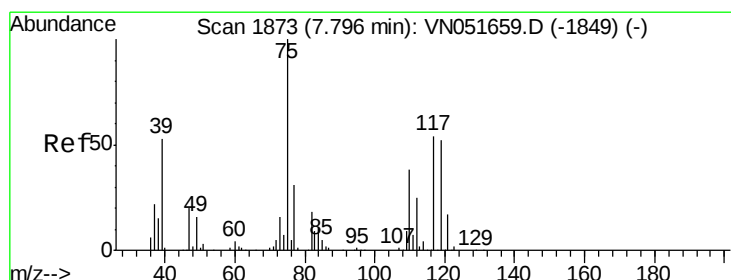
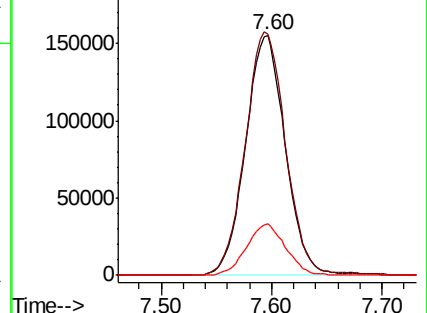
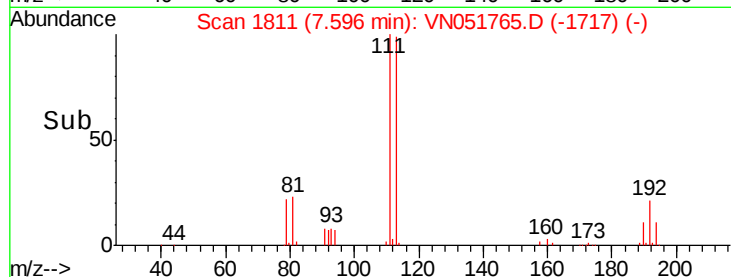
192 21.2 16.5 24.7



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: 4.154 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.13 min

Lab File: VN051765.D

Acq: 9 Oct 2018 22:15

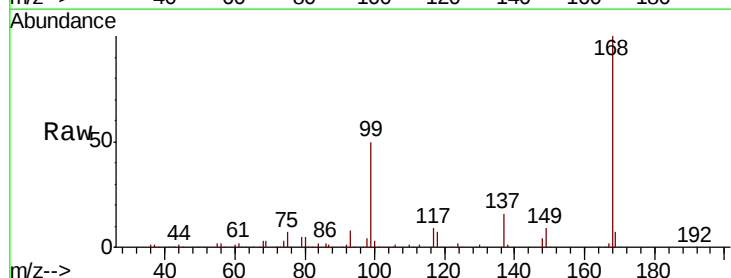
Tgt Ion: 75 Resp: 45595

Ion Ratio Lower Upper

75 100

110 10.5 19.3 57.8#

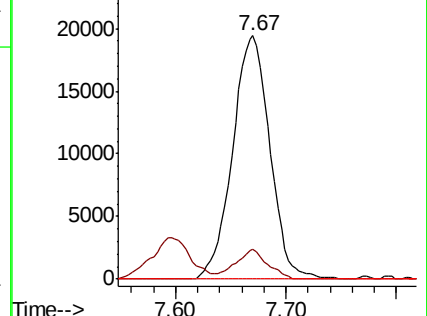
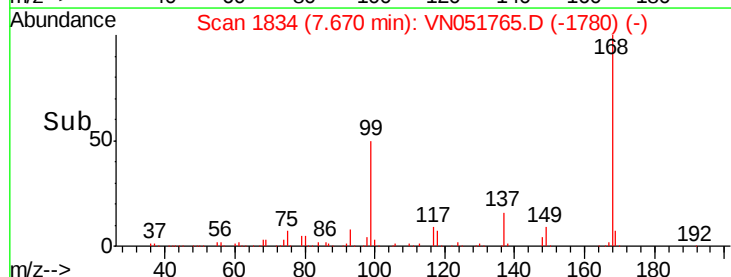
77 0.0 24.7 37.1#

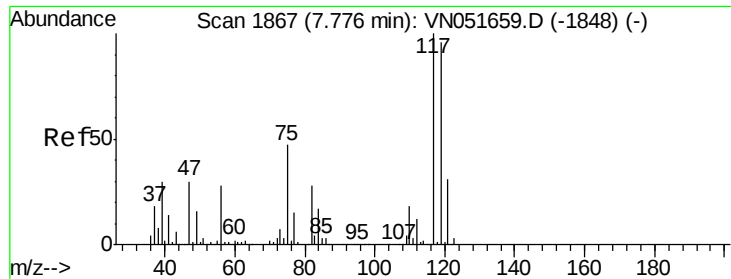


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.969 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051765.D

Acq: 9 Oct 2018 22:15

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#05

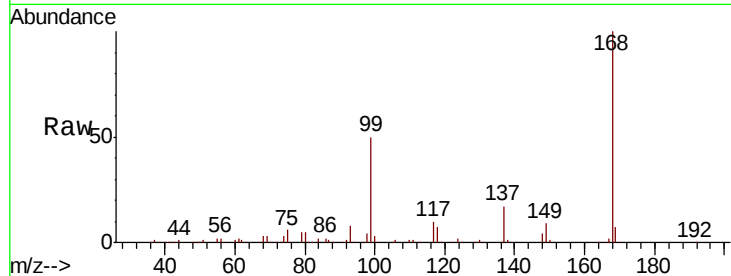
Tot Ion:117 Resp: 65438

Ion Ratio Lower Upper

117 100

119 4.0 77.0 115.6#

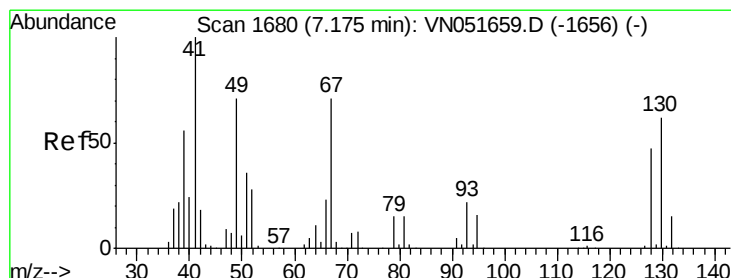
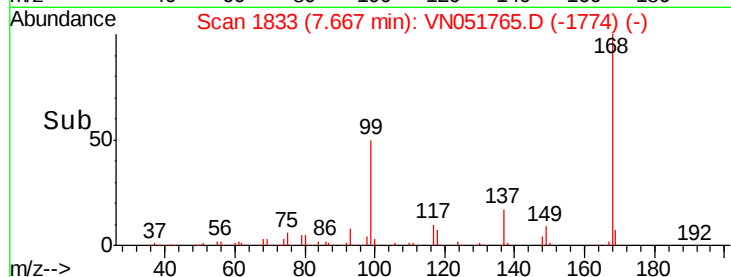
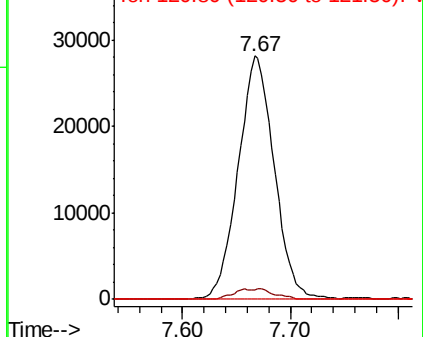
121 0.0 25.0 37.6#



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN051765.D

Acq: 9 Oct 2018 22:15

Tgt Ion: 41 Resp: 130

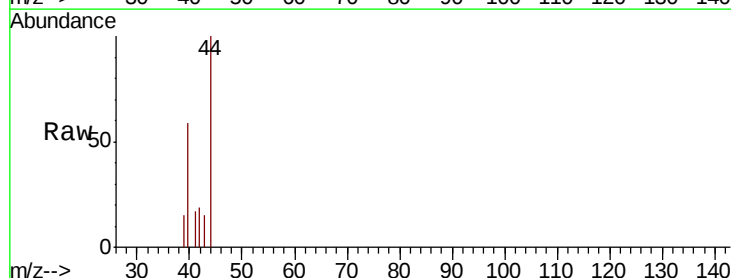
Ion Ratio Lower Upper

41 100

39 120.8 53.9 80.9#

67 0.0 78.1 117.1#

52 0.0 32.3 48.5#

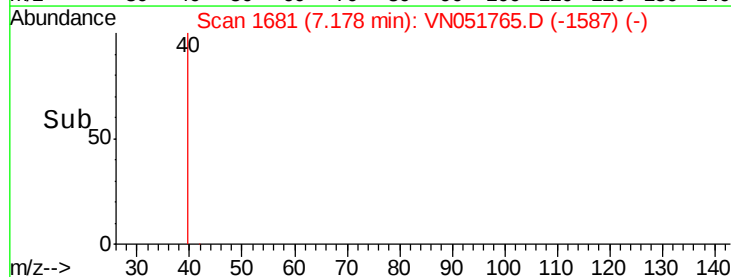
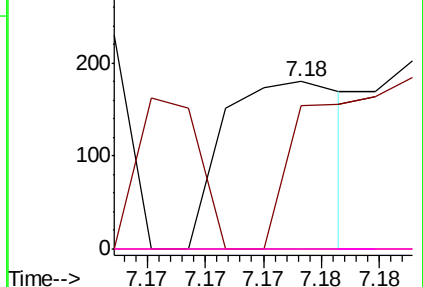


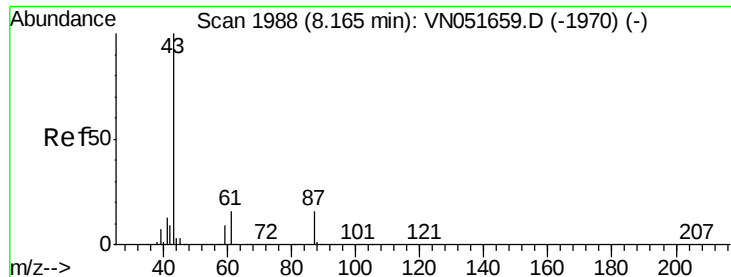
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 36.594 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN051765.D

Acq: 9 Oct 2018 22:15

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#05

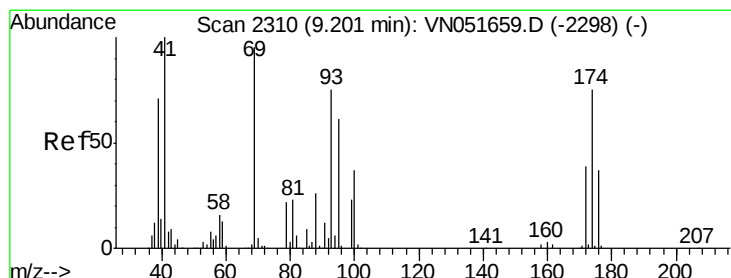
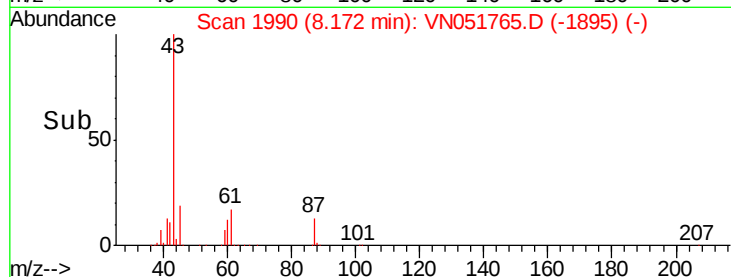
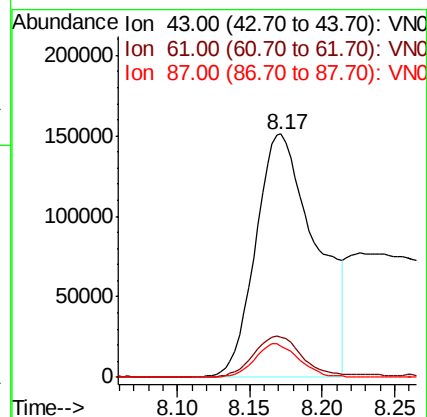
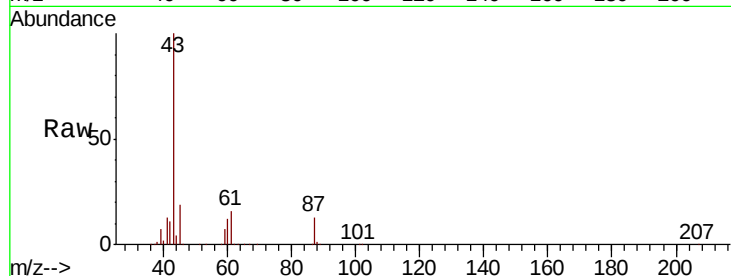
Tot Ion: 43 Resp: 436728

Ion Ratio Lower Upper

43 100

61 14.0 15.8 23.6#

87 10.3 12.6 19.0#



#48

Methyl methacrylate

Concen: 1.439 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051765.D

Acq: 9 Oct 2018 22:15

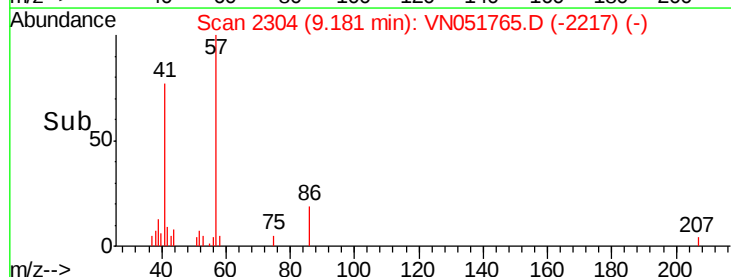
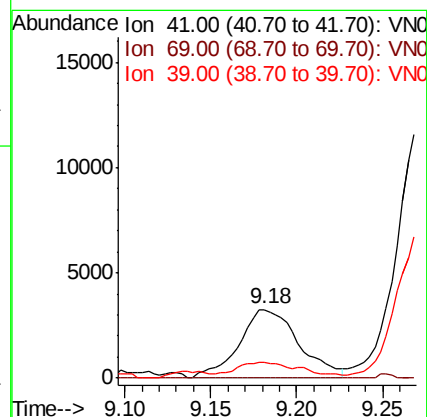
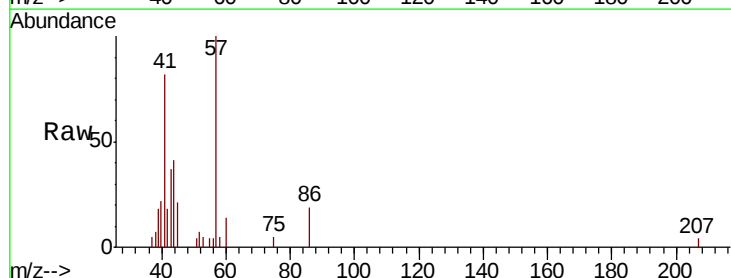
Tgt Ion: 41 Resp: 7850

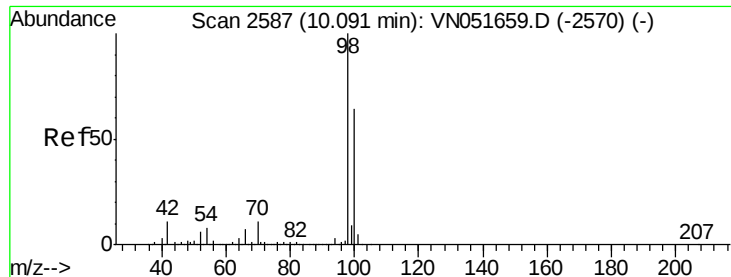
Ion Ratio Lower Upper

41 100

69 0.0 78.6 118.0#

39 21.9 59.2 88.8#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051765.D

Acq: 9 Oct 2018 22:15

Instrument :

MSVOA_N

ClientSampleId :

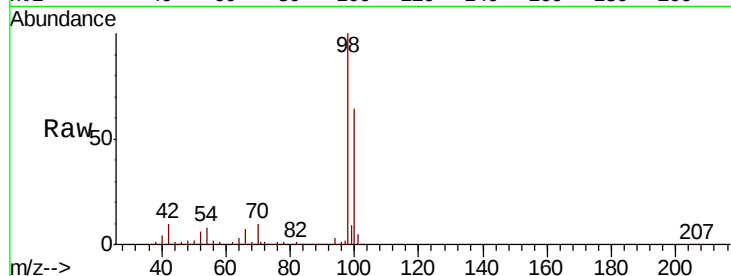
PB113645ZHE#05

Tot Ion: 98 Resp: 1499778

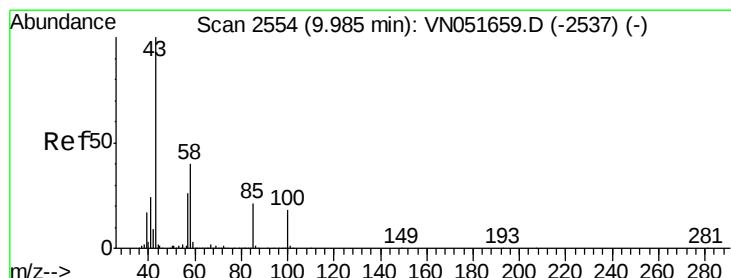
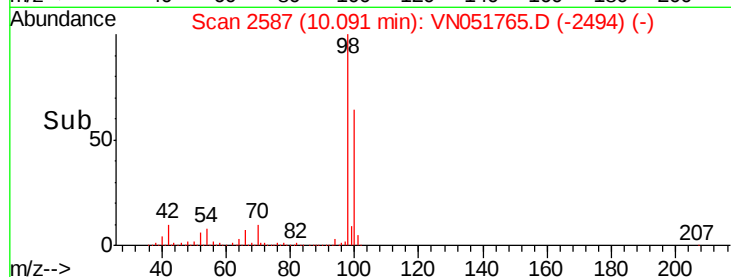
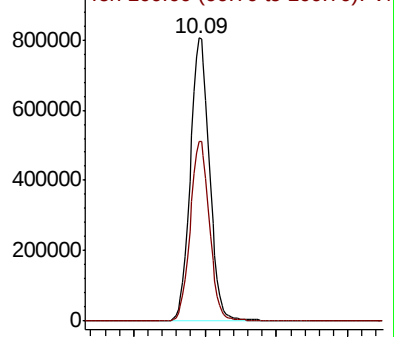
Ion Ratio Lower Upper

98 100

100 63.7 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN051765.D (-2494) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.397 ug/l

RT: 9.99 min Scan# 2557

Delta R.T. 0.01 min

Lab File: VN051765.D

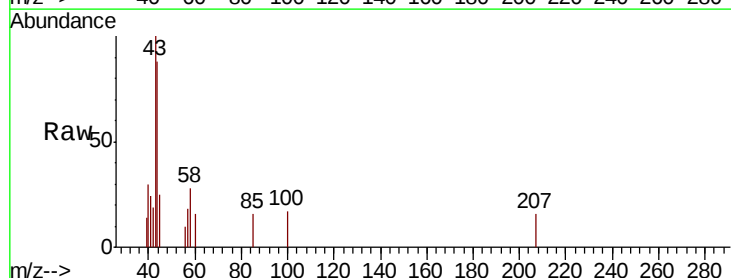
Acq: 9 Oct 2018 22:15

Tgt Ion: 43 Resp: 2401

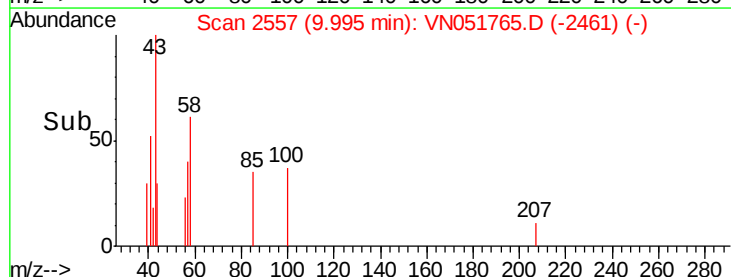
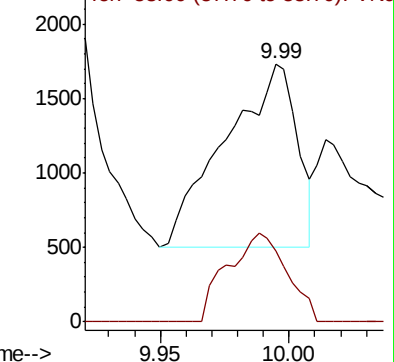
Ion Ratio Lower Upper

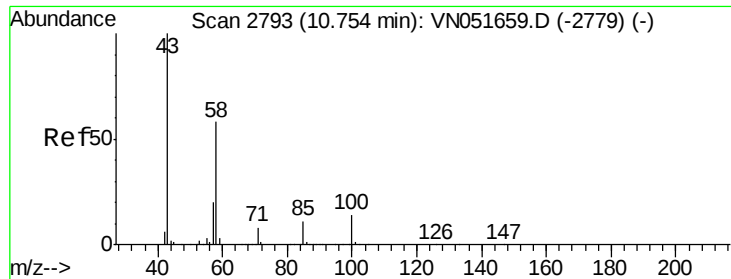
43 100

58 39.8 32.2 48.2



Abundance Ion 43.00 (42.70 to 43.70): VN051765.D (-2461) (-)

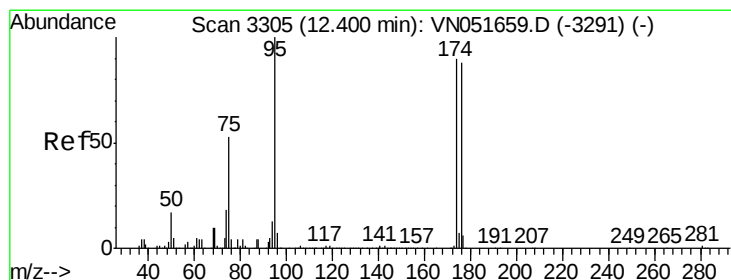
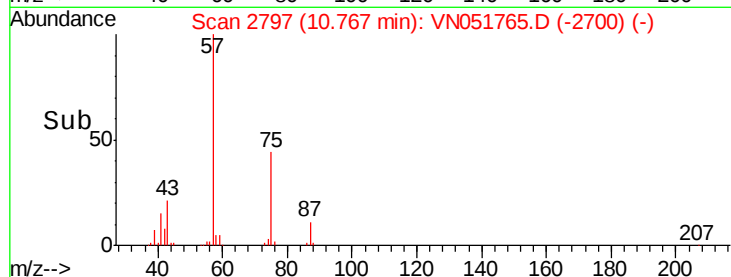
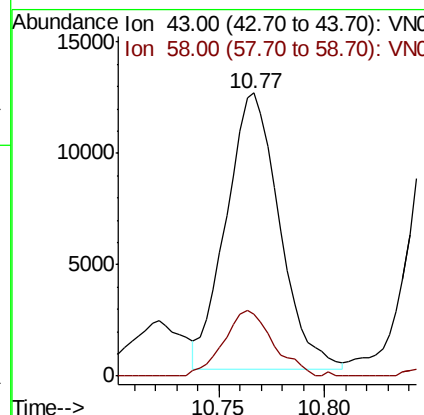
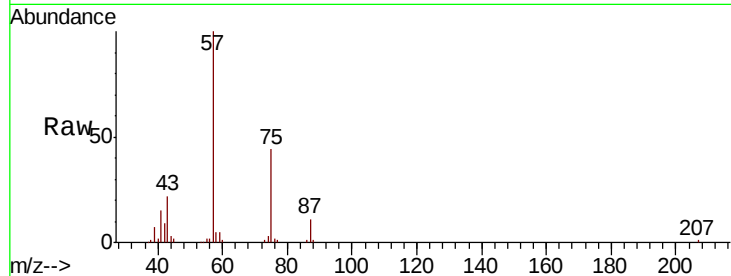




#59
2-Hexanone
Concen: 5.268 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051765.D
Acq: 9 Oct 2018 22:15

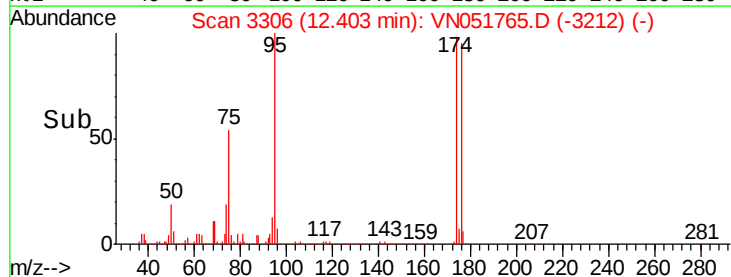
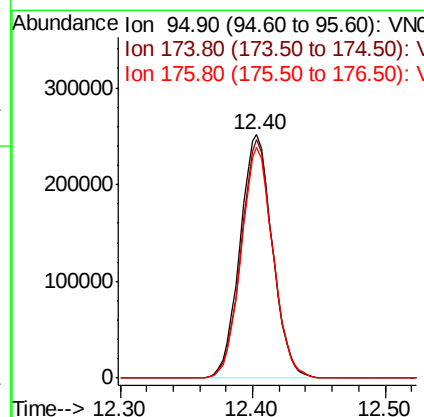
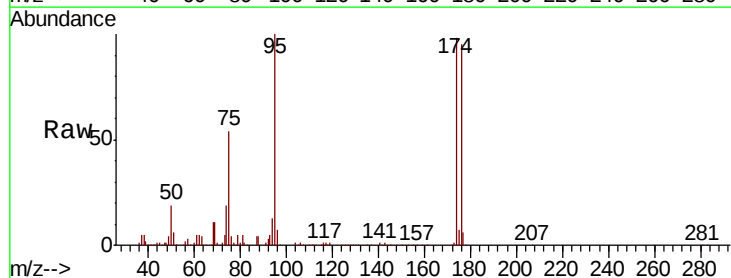
Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#05

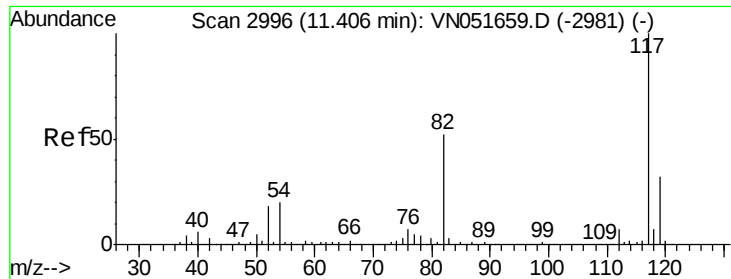
Tot Ion: 43 Resp: 21638
Ion Ratio Lower Upper
43 100
58 22.1 28.8 86.4#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051765.D
Acq: 9 Oct 2018 22:15

Tgt Ion: 95 Resp: 426725
Ion Ratio Lower Upper
95 100
174 95.8 0.0 182.8
176 93.1 0.0 176.4

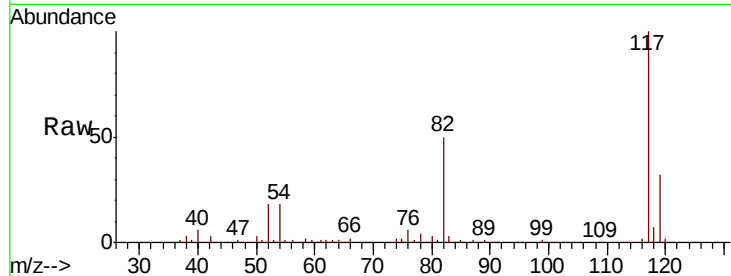




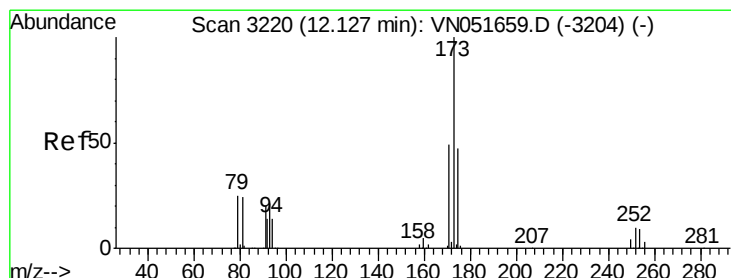
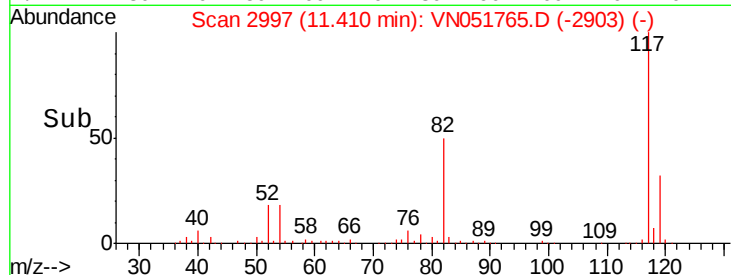
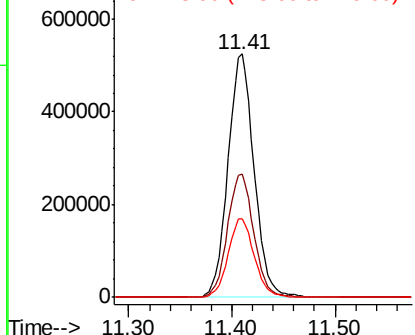
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051765.D
Acq: 9 Oct 2018 22:15

Instrument :
MSVOA_N
ClientSampleId :
PB113645ZHE#05

Tot Ion:117 Resp: 925544
Ion Ratio Lower Upper
117 100
82 50.5 41.3 61.9
119 32.4 25.9 38.9

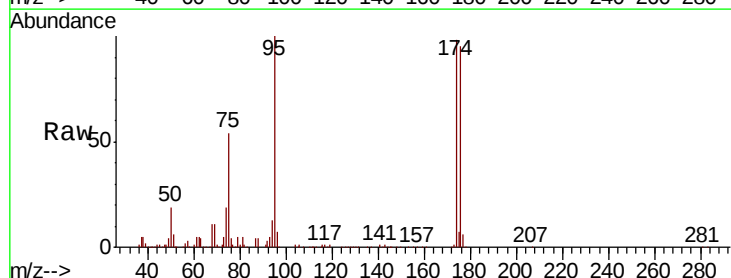


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

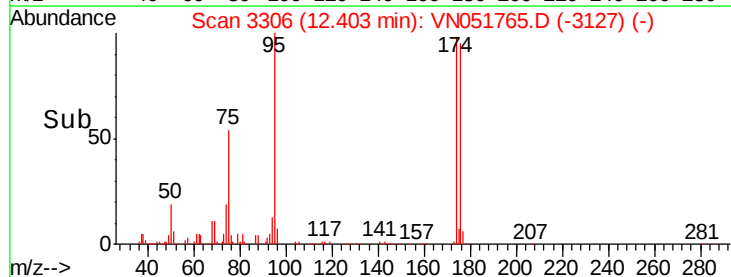
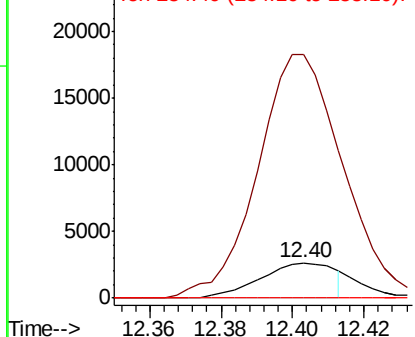


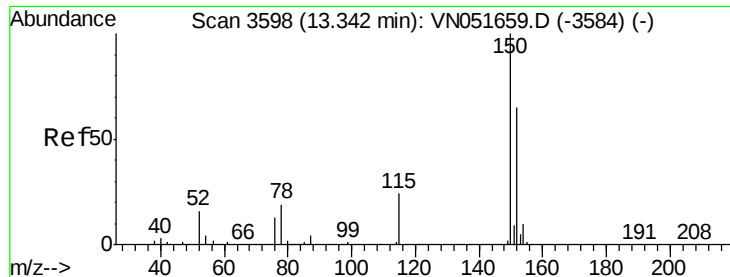
#71
Bromoform
Concen: 0.557 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051765.D
Acq: 9 Oct 2018 22:15

Tgt Ion:173 Resp: 3800
Ion Ratio Lower Upper
173 100
175 678.3 24.0 72.0#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051765.D

Acq: 9 Oct 2018 22:15

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#05

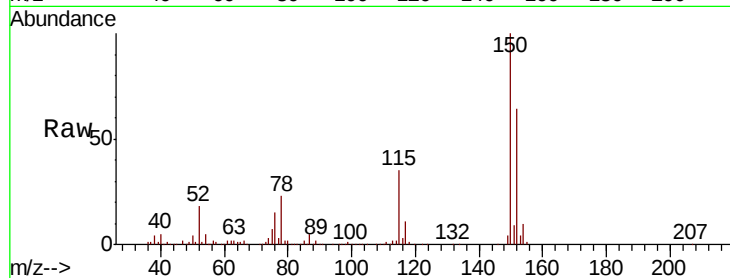
Tot Ion:152 Resp: 362323

Ion Ratio Lower Upper

152 100

115 54.4 28.6 85.8

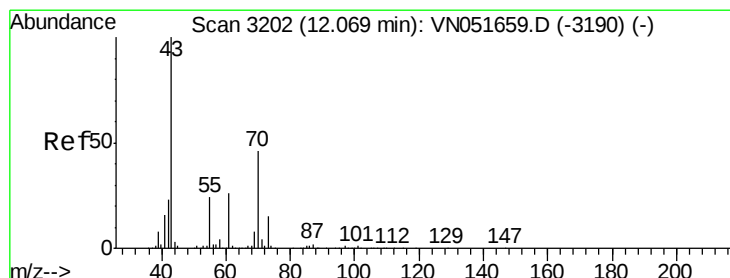
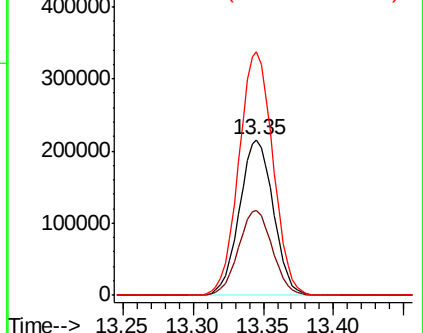
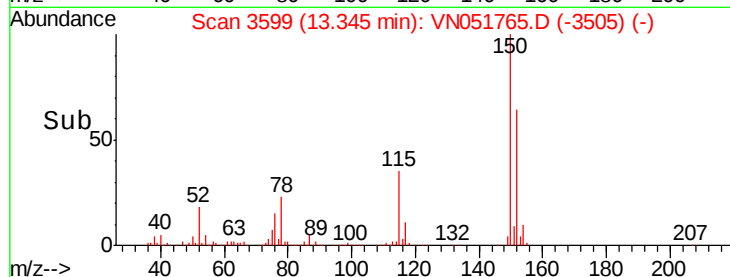
150 157.5 0.0 352.4



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



#74

N-ethyl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN051765.D

Acq: 9 Oct 2018 22:15

Tgt Ion: 43 Resp: 177

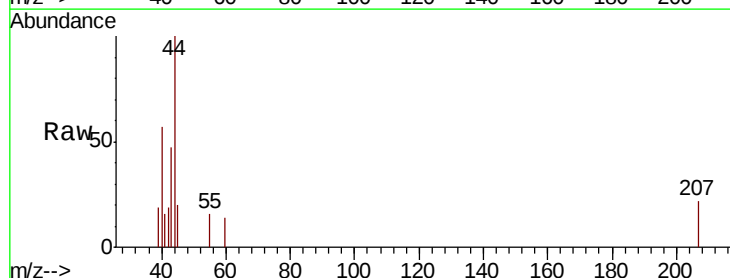
Ion Ratio Lower Upper

43 100

70 0.0 37.1 55.7#

55 36.7 19.1 28.7#

61 0.0 20.8 31.2#

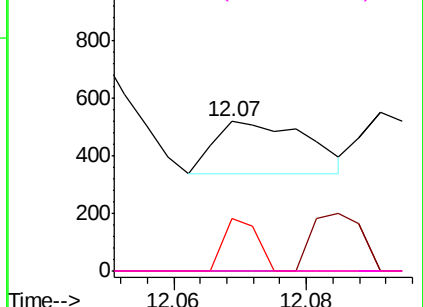
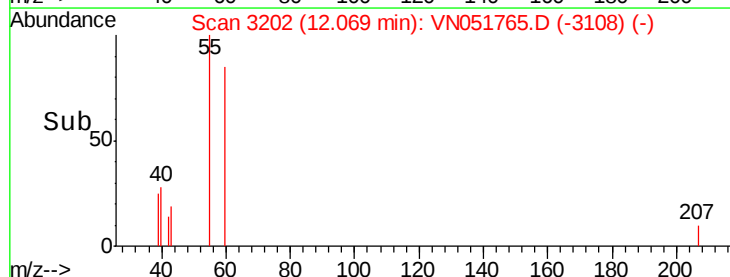


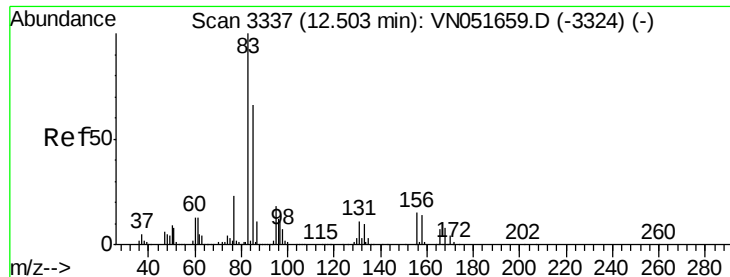
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.39 min Scan# 3303

Delta R.T. -0.11 min

Lab File: VN051765.D

Acq: 9 Oct 2018 22:15

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#05

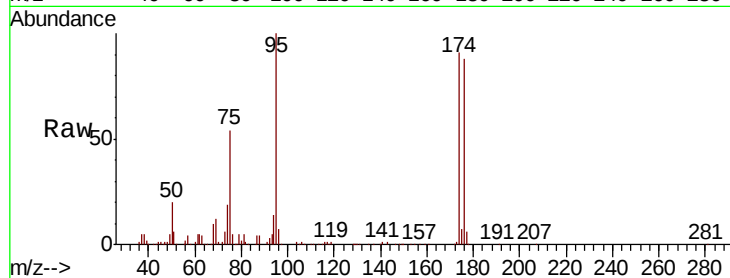
Tot Ion: 83 Resp: 331

Ion Ratio Lower Upper

83 100

131 133.8 5.7 17.1#

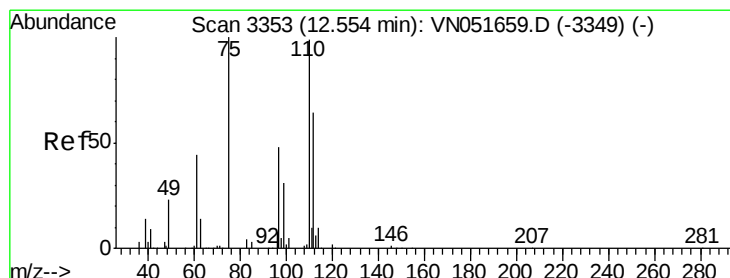
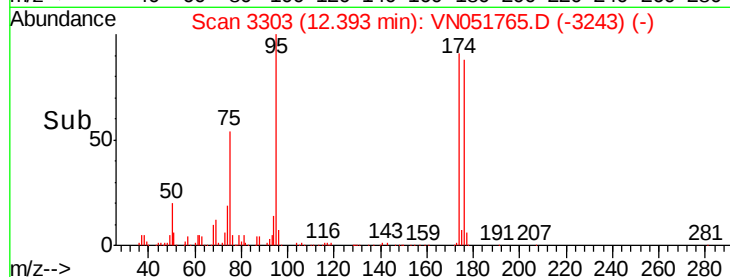
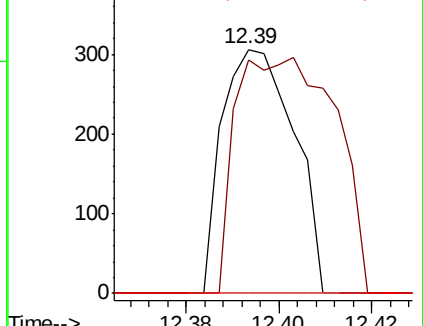
85 0.0 33.0 98.9#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 50.403 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051765.D

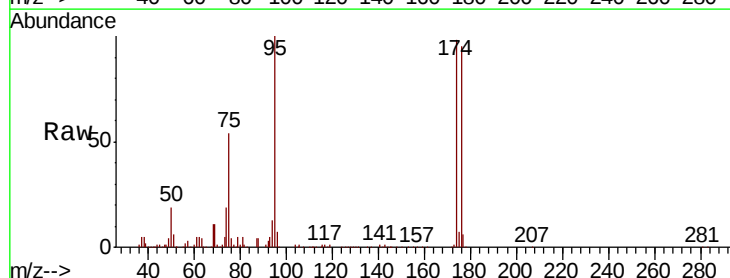
Acq: 9 Oct 2018 22:15

Tgt Ion: 75 Resp: 226766

Ion Ratio Lower Upper

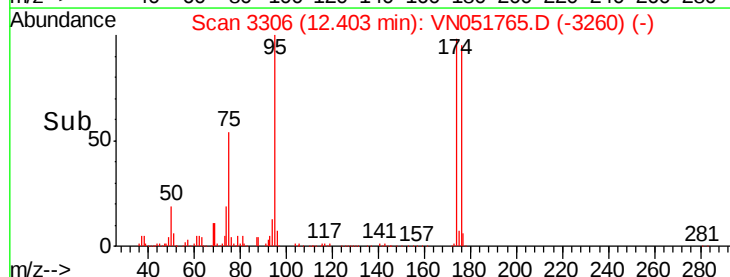
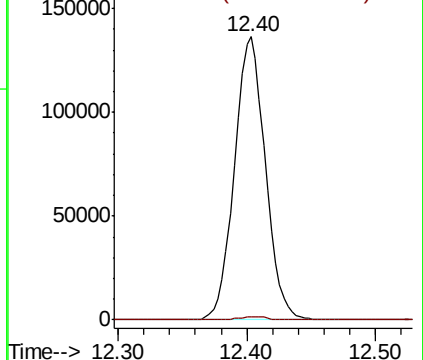
75 100

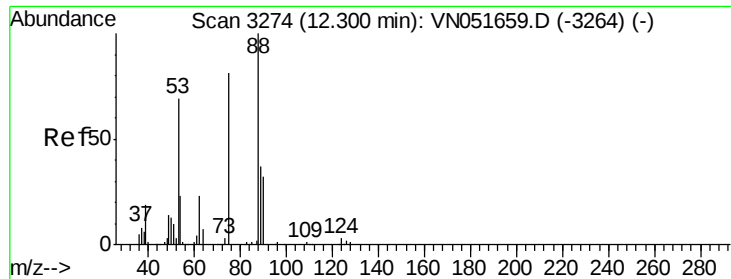
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 115.047 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051765.D

Acq: 9 Oct 2018 22:15

Instrument :

MSVOA_N

ClientSampleId :

PB113645ZHE#05

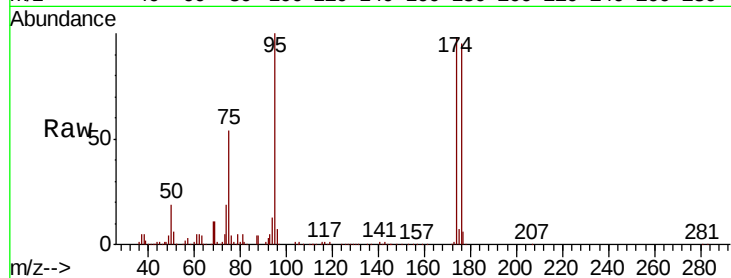
Tot Ion: 75 Resp: 226766

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

89 0.0 39.4 59.2#



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

