

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051589.D
 Acq On : 27 Sep 2018 18:04
 Operator : MD\SY
 Sample : PB113263ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113263ZHE#01

Quant Time: Sep 28 01:52:21 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	627809	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1029171	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	850034	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	269965	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	461712	58.71	ug/l	0.00
Spiked Amount			Recovery	=	117.42%	
35) Dibromofluoromethane	7.59	113	396488	48.18	ug/l	0.00
Spiked Amount			Recovery	=	96.36%	
50) Toluene-d8	10.09	98	1423119	45.92	ug/l	0.00
Spiked Amount			Recovery	=	91.84%	
62) 4-Bromofluorobenzene	12.40	95	364501	36.36	ug/l	0.00
Spiked Amount			Recovery	=	72.72%	

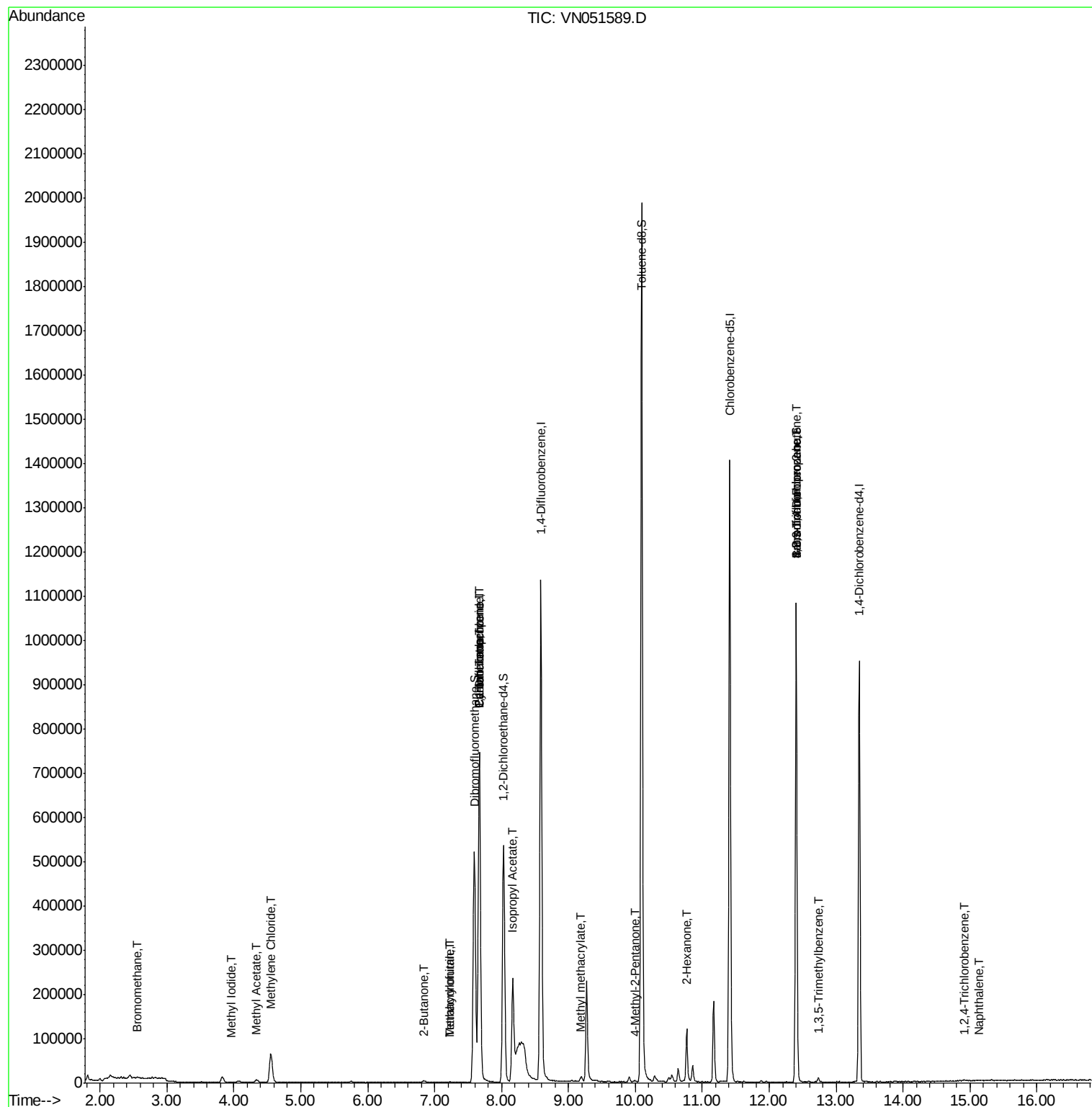
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1504	0.303	ug/l #	69
10) Methyl Iodide	3.95	142	29	0.279	ug/l #	42
16) Acetone	3.82	43	19506	Below Cal	#	88
18) Methyl Acetate	4.33	43	13688	2.285	ug/l #	87
20) Methylene Chloride	4.55	84	47177	6.062	ug/l	96
25) 2-Butanone	6.85	43	4147	1.541	ug/l #	83
29) Tetrahydrofuran	7.23	42	889	0.521	ug/l #	65
31) Cyclohexane	7.67	56	12852	1.038	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	46600	3.910	ug/l #	47
38) Carbon Tetrachloride	7.67	117	59208	4.750	ug/l #	16
41) Methacrylonitrile	7.23	41	1078	0.284	ug/l #	36
43) Isopropyl Acetate	8.17	43	294471	23.765	ug/l	96
48) Methyl methacrylate	9.18	41	7436	1.204	ug/l #	17
51) 4-Methyl-2-Pentanone	9.99	43	2396	0.352	ug/l #	64
59) 2-Hexanone	10.77	43	18950	4.290	ug/l #	57
71) Bromoform	12.40	173	1877	0.333	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	178268	39.778	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4464	0.240	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	178268	122.314	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	716	6.102	ug/l #	80
95) Naphthalene	15.13	128	1655	8.183	ug/l #	84

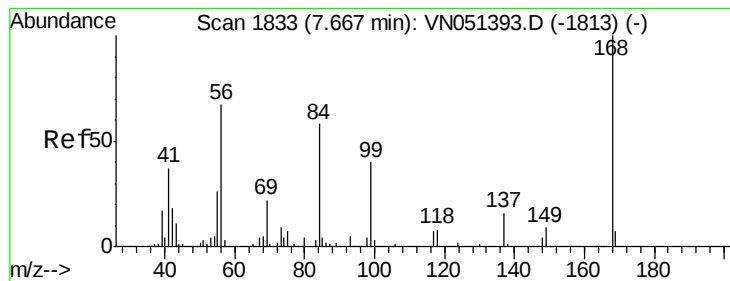
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN092718\
Data File : VN051589.D
Acq On : 27 Sep 2018 18:04
Operator : MD\SY
Sample : PB113263ZHE#01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 54 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB113263ZHE#01

Quant Time: Sep 28 01:52:21 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
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: VN051589.D

Acq: 27 Sep 2018 18:04

Instrument :

MSVOA_N

ClientSampleId :

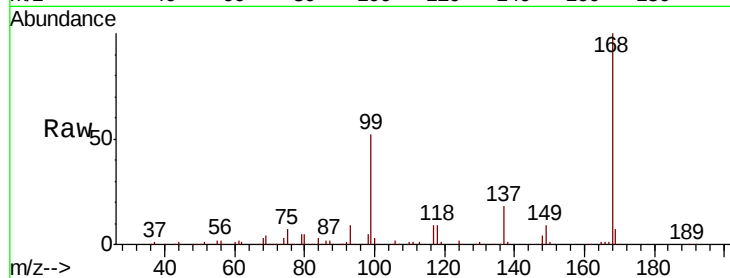
PB113263ZHE#01

Tot Ion:168 Resp: 627809

Ion Ratio Lower Upper

168 100

99 52.2 40.2 60.2



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

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

7.67

250000

200000

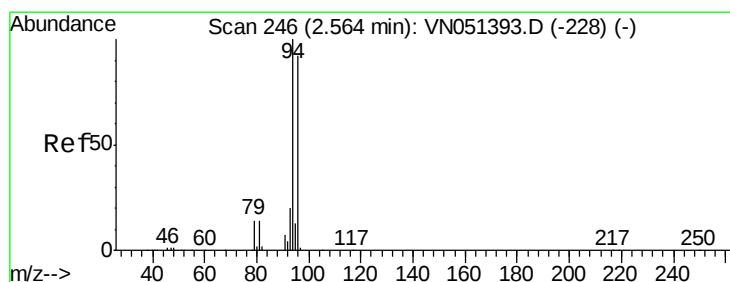
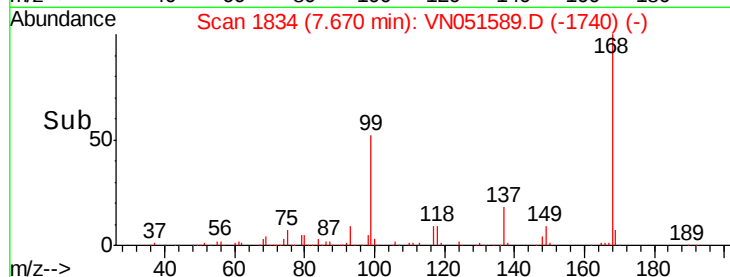
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.303 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051589.D

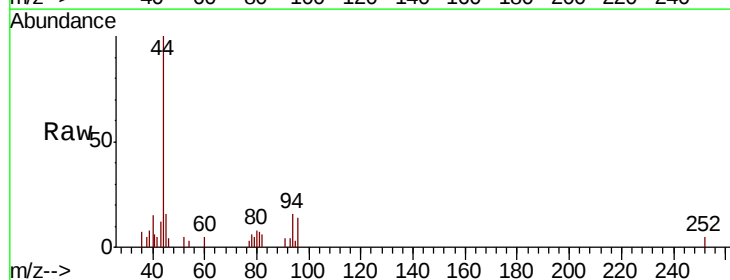
Acq: 27 Sep 2018 18:04

Tgt Ion: 94 Resp: 1504

Ion Ratio Lower Upper

94 100

96 62.1 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

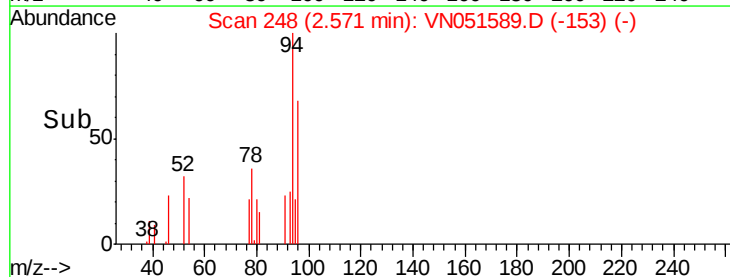
600

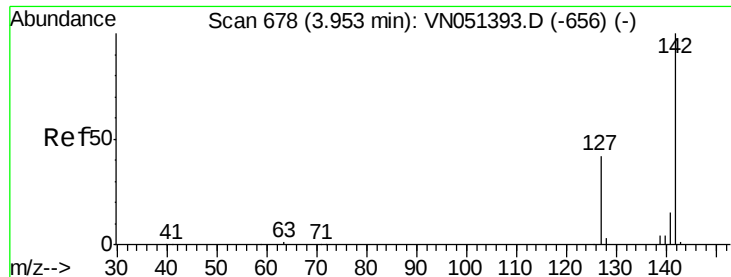
400

200

0

Time-->

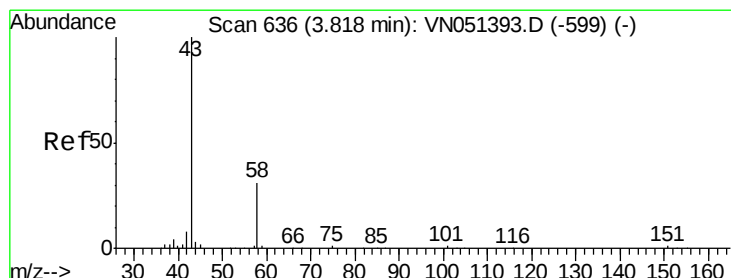
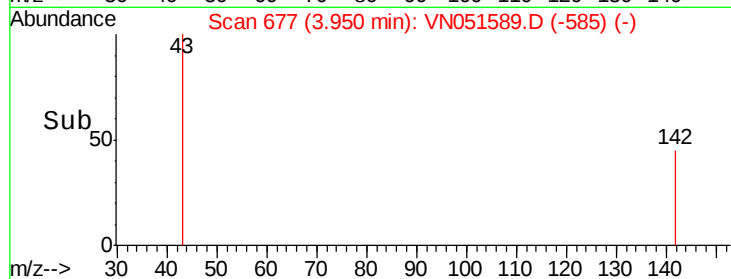
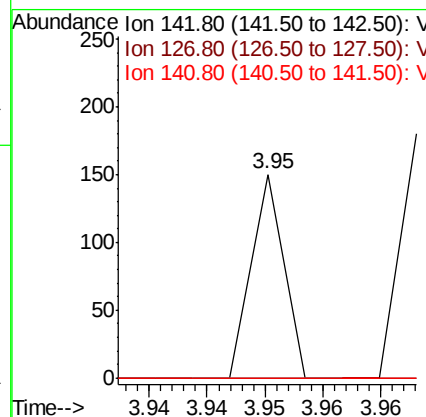
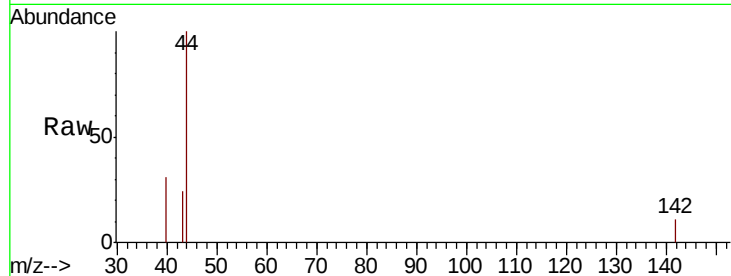




#10
Methvl Iodide
Concen: 0.279 ug/l
RT: 3.95 min Scan# 677
Delta R.T. -0.00 min
Lab File: VN051589.D
Acq: 27 Sep 2018 18:04

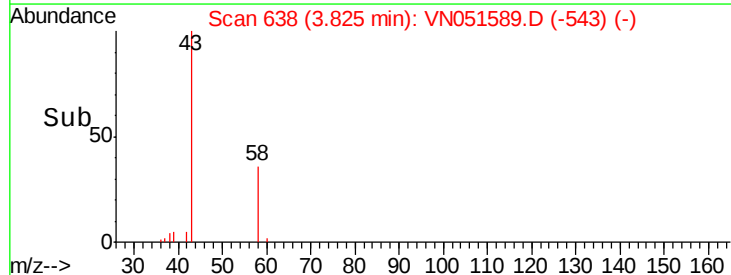
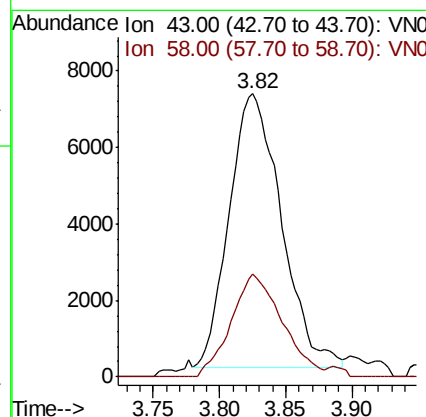
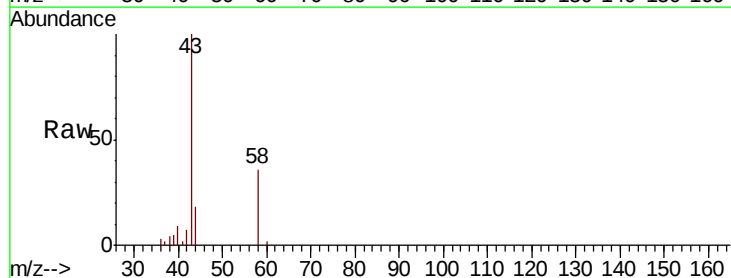
Instrument :
MSVOA_N
ClientSampleId :
PB113263ZHE#01

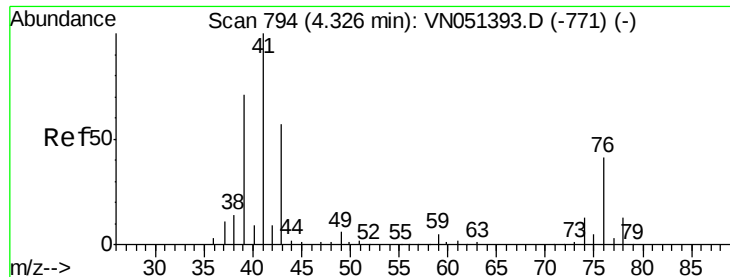
Tot Ion	Ratio	Lower	Upper
142	100		
127	0.0	33.2	49.8#
141	0.0	11.5	17.3#



#16
Acetone
Concen: Below Cal
RT: 3.82 min Scan# 638
Delta R.T. 0.01 min
Lab File: VN051589.D
Acq: 27 Sep 2018 18:04

Tgt Ion	Ratio	Lower	Upper
43	100		
58	37.8	25.0	37.4#

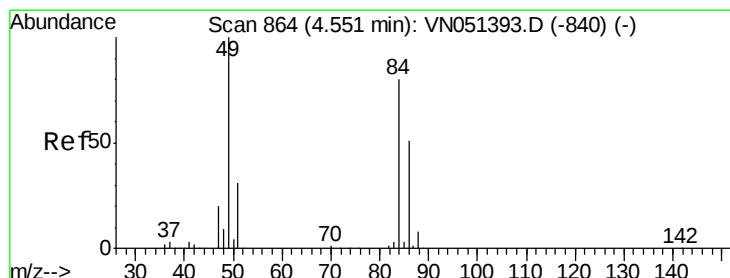
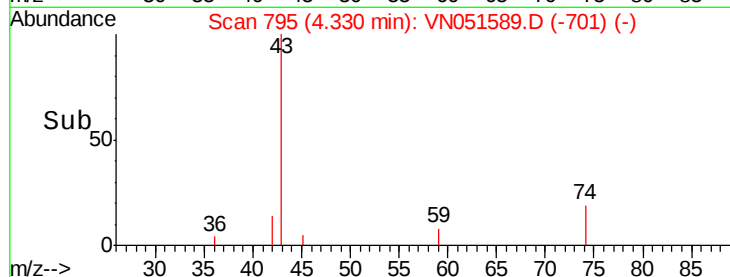
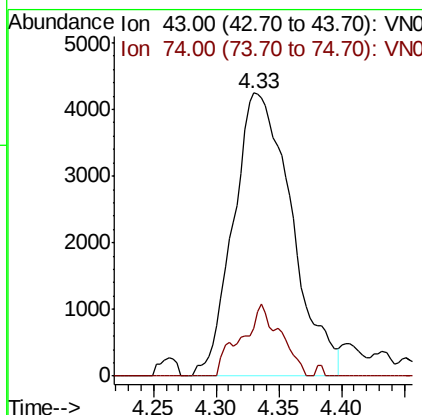
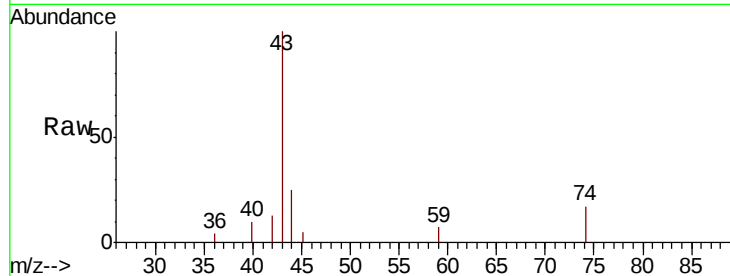




#18
Methyl Acetate
Concen: 2.285 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051589.D
Acq: 27 Sep 2018 18:04

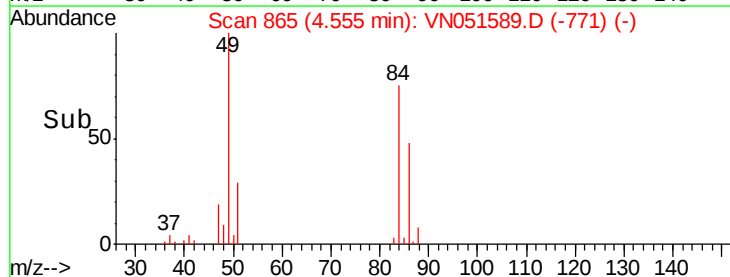
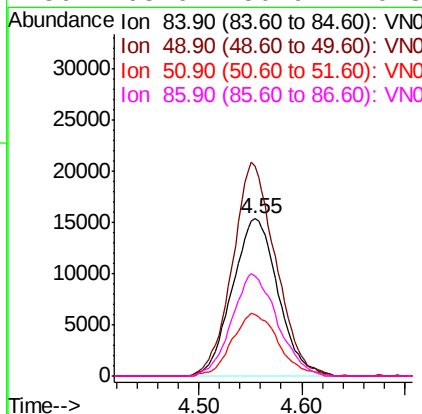
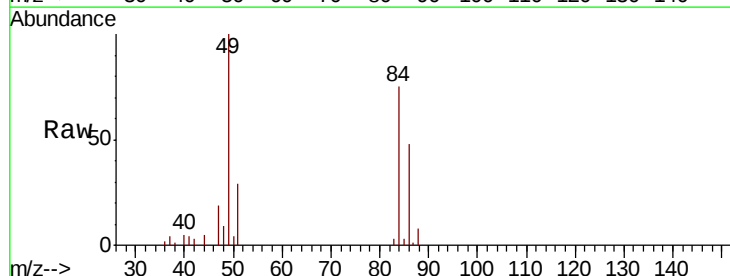
Instrument :
MSVOA_N
ClientSampleId :
PB113263ZHE#01

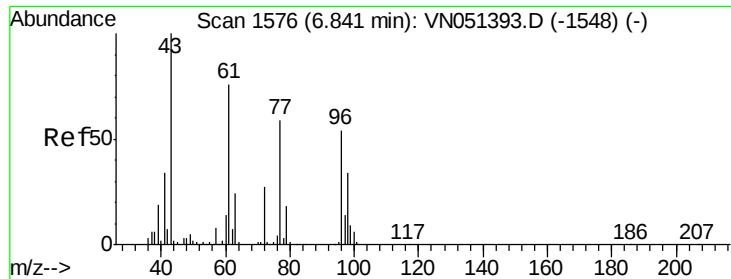
Tot Ion: 43 Resp: 13688
Ion Ratio Lower Upper
43 100
74 17.3 18.8 28.2#



#20
Methylene Chloride
Concen: 6.062 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051589.D
Acq: 27 Sep 2018 18:04

Tgt Ion: 84 Resp: 47177
Ion Ratio Lower Upper
84 100
49 133.8 99.9 149.9
51 39.2 31.4 47.2
86 63.6 50.9 76.3

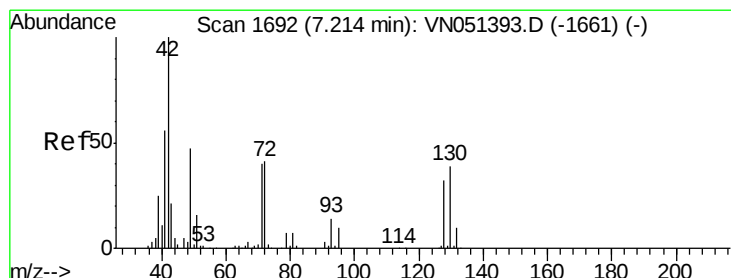
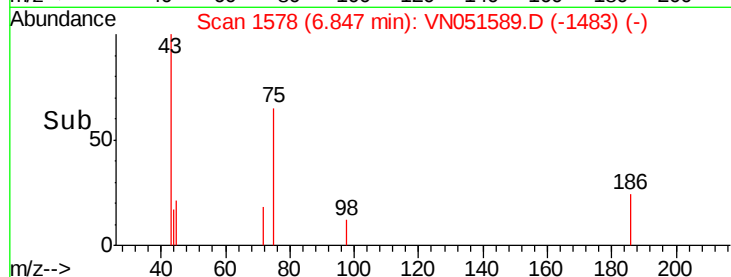
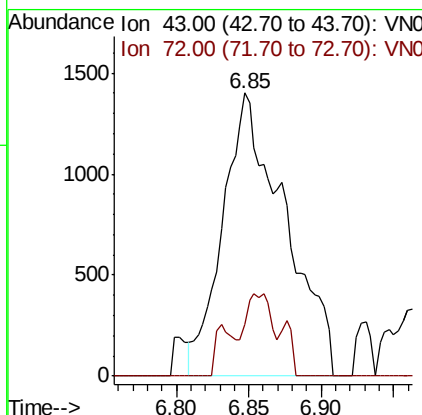
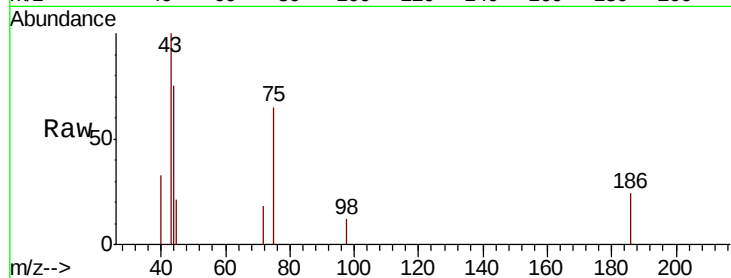




#25
2-Butanone
Concen: 1.541 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN051589.D
Acq: 27 Sep 2018 18:04

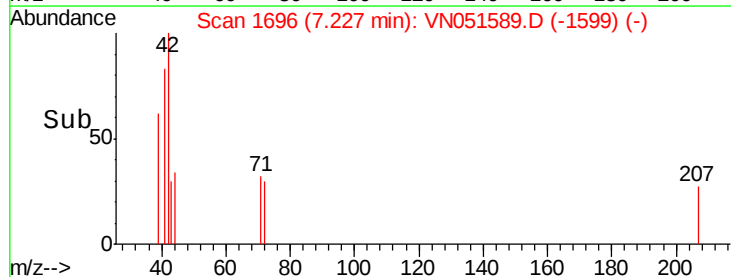
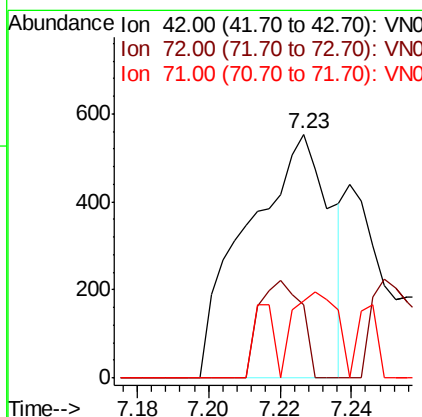
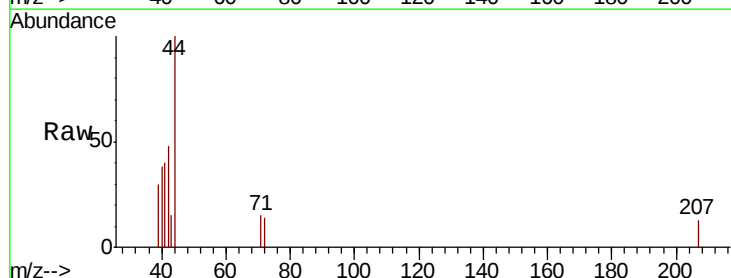
Instrument :
MSVOA_N
ClientSampleId :
PB113263ZHE#01

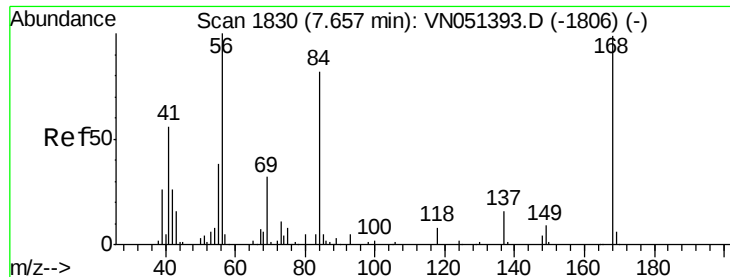
Tot Ion: 43 Resp: 4147
Ion Ratio Lower Upper
43 100
72 18.5 21.8 32.6#



#29
Tetrahydrofuran
Concen: 0.521 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN051589.D
Acq: 27 Sep 2018 18:04

Tgt Ion: 42 Resp: 889
Ion Ratio Lower Upper
42 100
72 20.4 34.3 51.5#
71 18.7 32.2 48.4#





#31

Cyclohexane

Concen: 1.038 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN051589.D

Acq: 27 Sep 2018 18:04

Instrument :

MSVOA_N

ClientSampleId :

PB113263ZHE#01

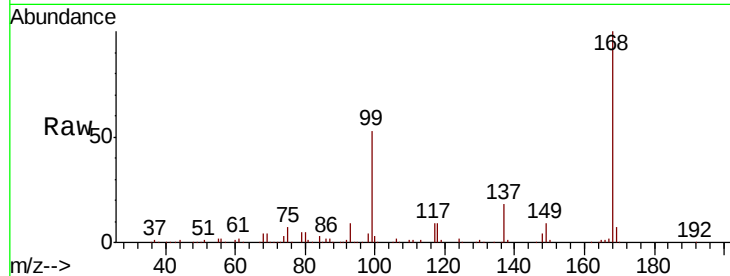
Tot Ion: 56 Resp: 12852

Ion Ratio Lower Upper

56 100

69 186.7 25.8 38.6#

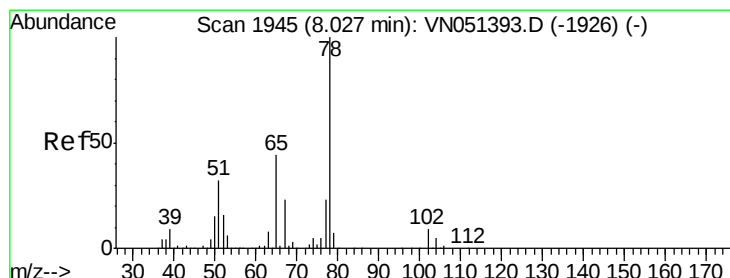
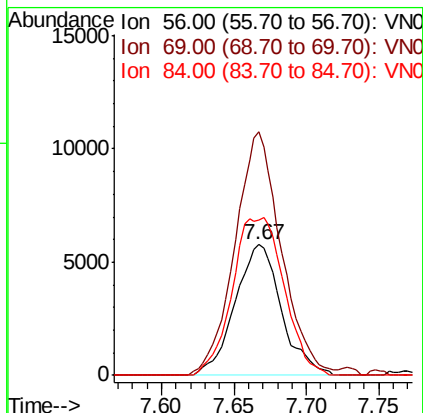
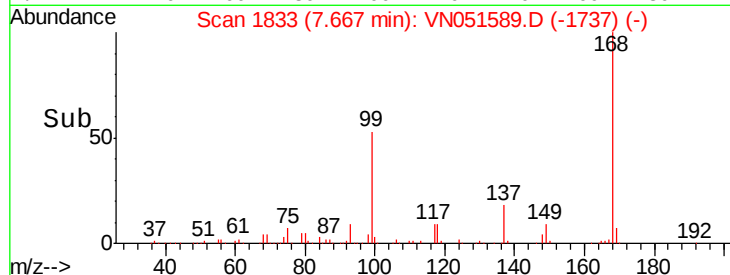
84 119.4 66.0 99.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 58.709 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051589.D

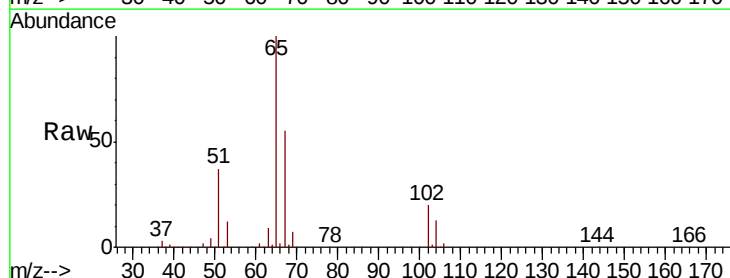
Acq: 27 Sep 2018 18:04

Tgt Ion: 65 Resp: 461712

Ion Ratio Lower Upper

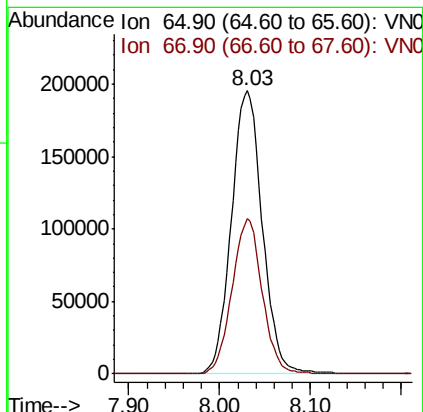
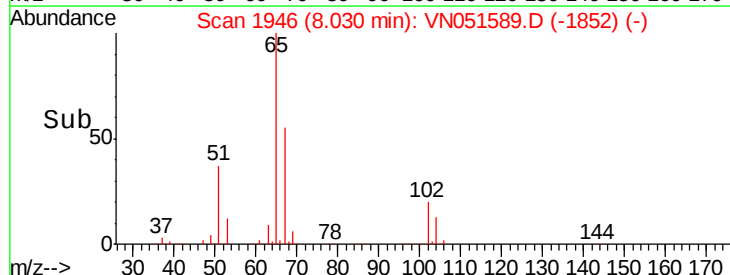
65 100

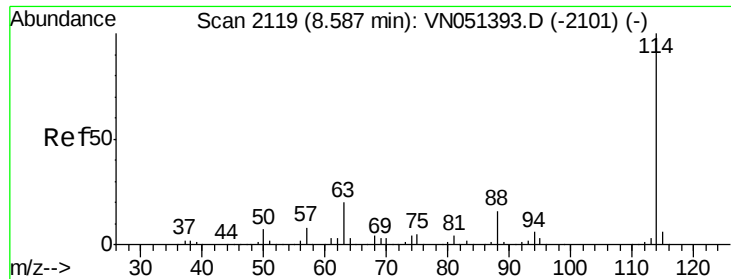
67 53.3 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

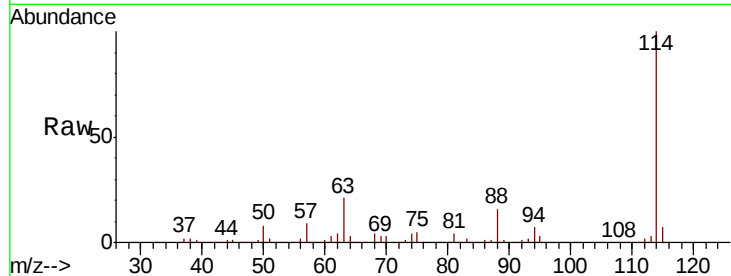




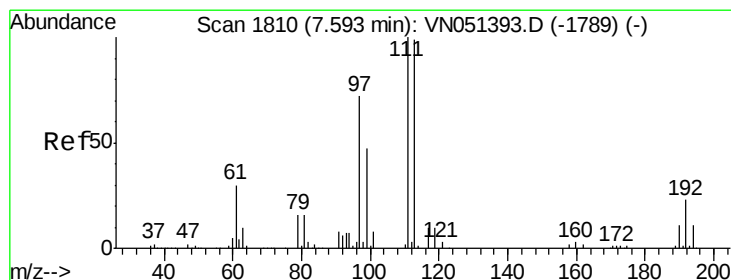
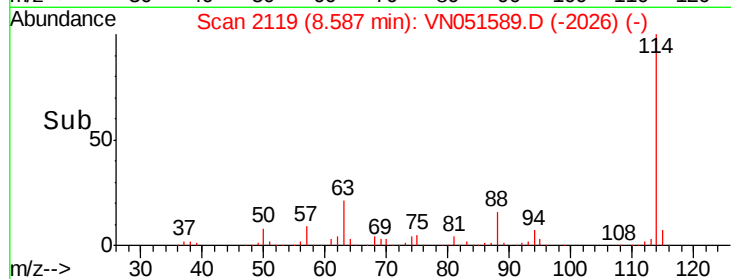
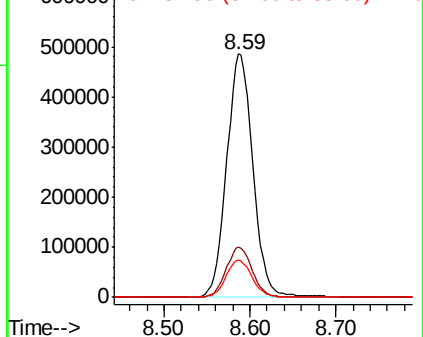
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051589.D
 Acq: 27 Sep 2018 18:04

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113263ZHE#01

Tot Ion:114 Resp: 1029171
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 40.2
 88 15.5 0.0 31.4

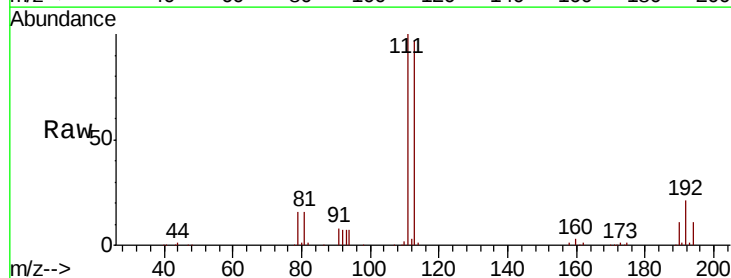


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

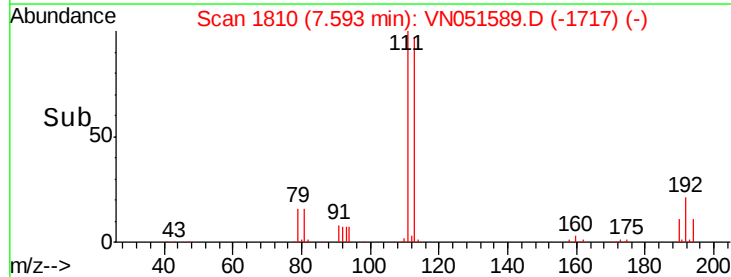
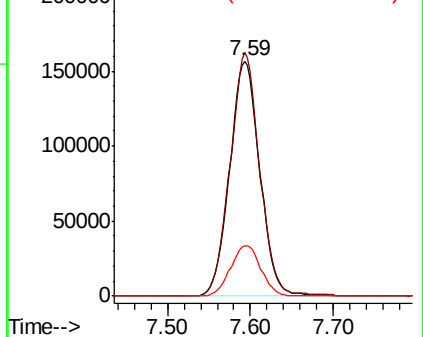


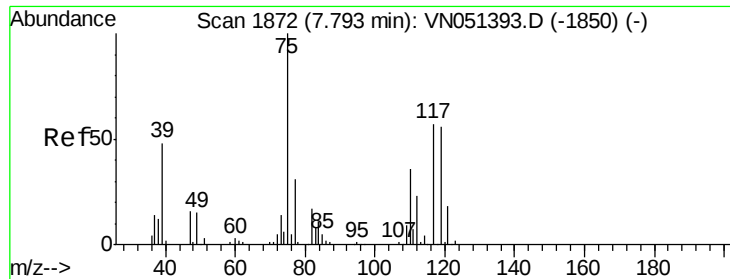
#35
 Dibromofluoromethane
 Concen: 48.177 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051589.D
 Acq: 27 Sep 2018 18:04

Tgt Ion:113 Resp: 396488
 Ion Ratio Lower Upper
 113 100
 111 100.8 82.6 123.8
 192 21.7 18.0 27.0



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

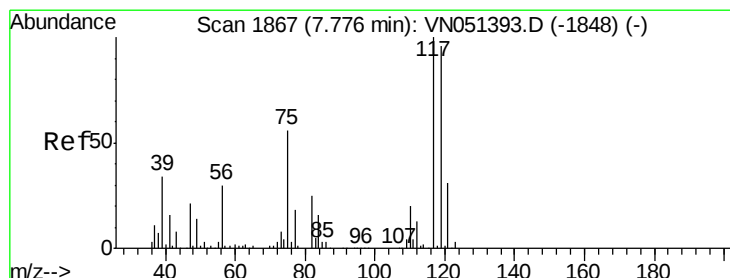
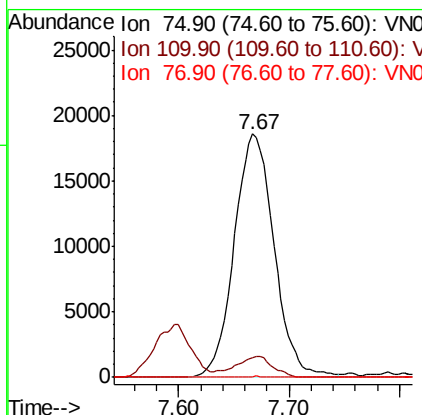
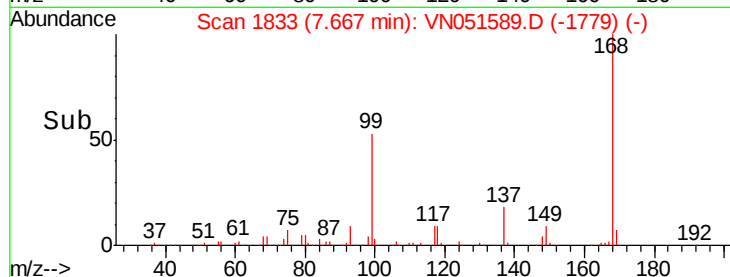
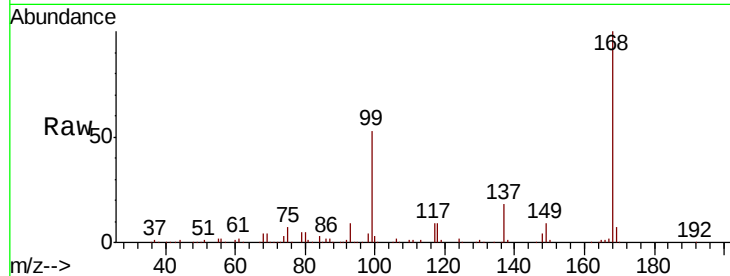




#36
 1,1-Dichloropropene
 Concen: 3.910 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051589.D
 Acq: 27 Sep 2018 18:04

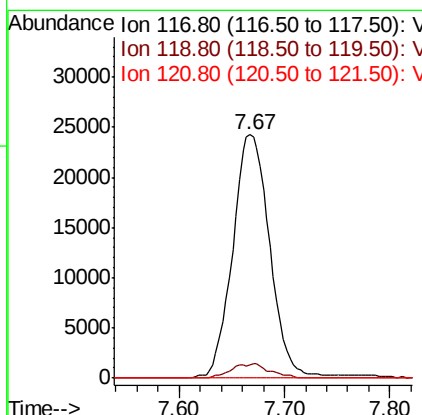
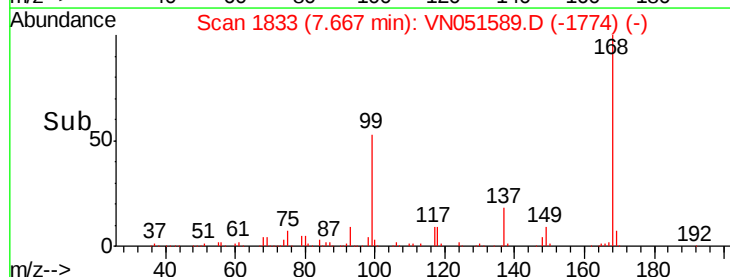
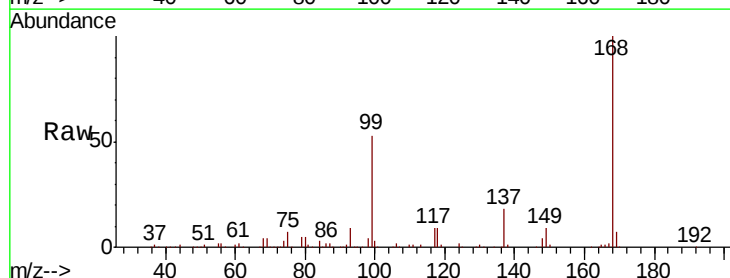
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113263ZHE#01

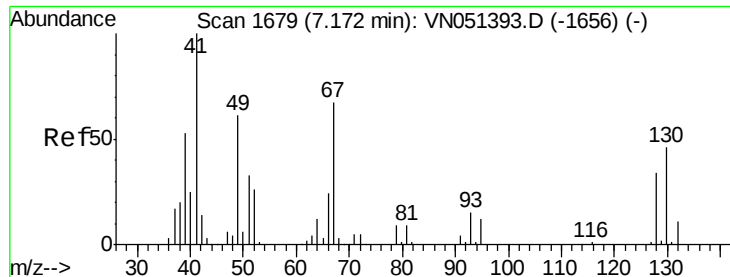
Tot Ion	Ratio	Lower	Upper
75	100		
110	7.6	18.1	54.3#
77	0.1	25.6	38.4#



#38
 Carbon Tetrachloride
 Concen: 4.750 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051589.D
 Acq: 27 Sep 2018 18:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.9	115.3#
121	0.0	24.6	37.0#





#41

Methacrylonitrile

Concen: 0.284 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.06 min

Lab File: VN051589.D

Acq: 27 Sep 2018 18:04

Instrument :

MSVOA_N

ClientSampleId :

PB113263ZHE#01

Tot Ion: 41 Resp: 1078

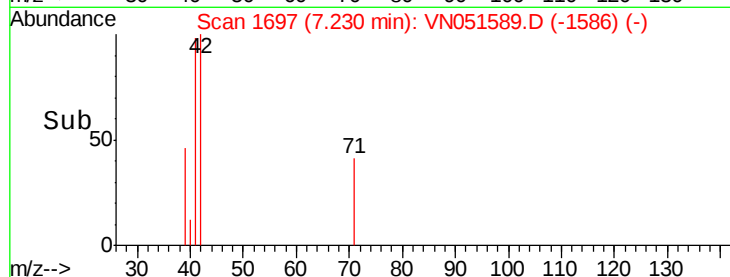
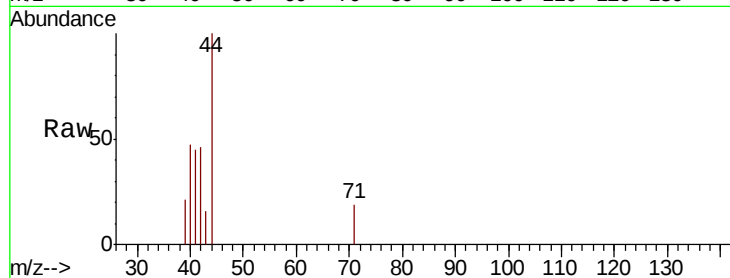
Ion Ratio Lower Upper

41 100

39 41.9 51.4 77.2#

67 0.0 66.8 100.2#

52 0.0 27.7 41.5#

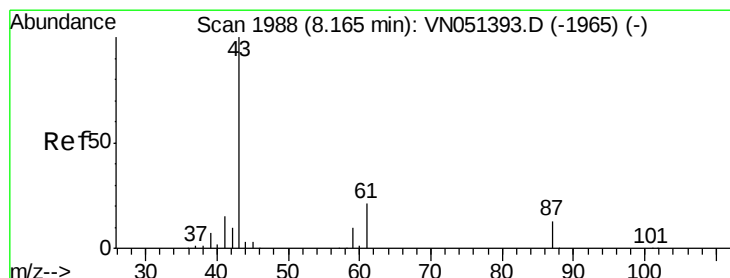
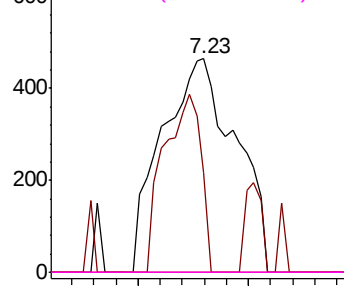


Abundance Ion 41.00 (40.70 to 41.70): VNO

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: 23.765 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN051589.D

Acq: 27 Sep 2018 18:04

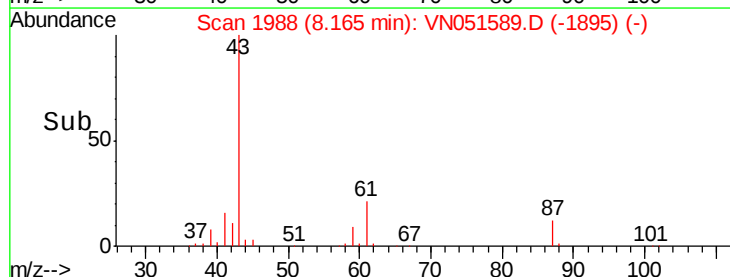
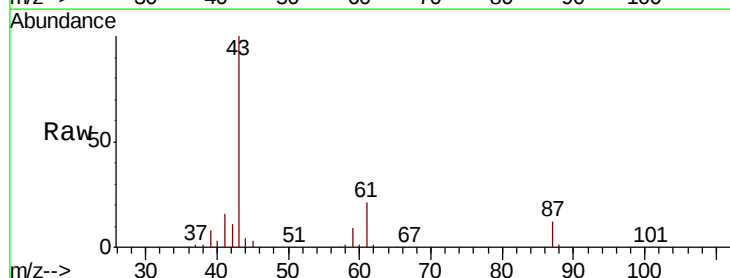
Tgt Ion: 43 Resp: 294471

Ion Ratio Lower Upper

43 100

61 19.0 16.8 25.2

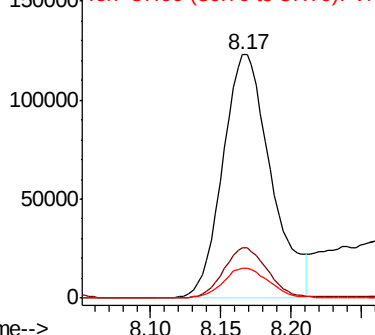
87 11.7 10.7 16.1

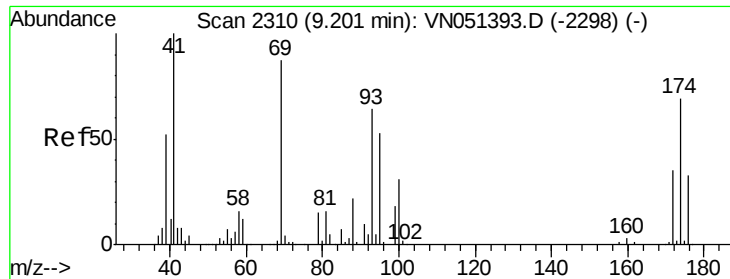


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

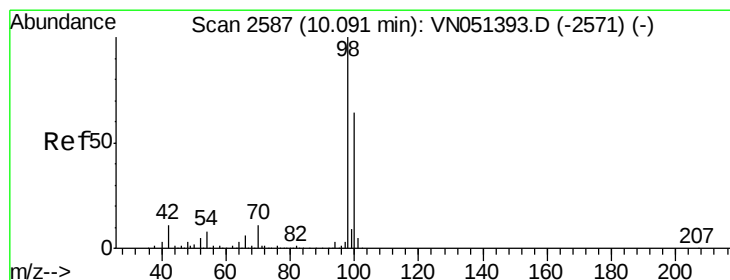
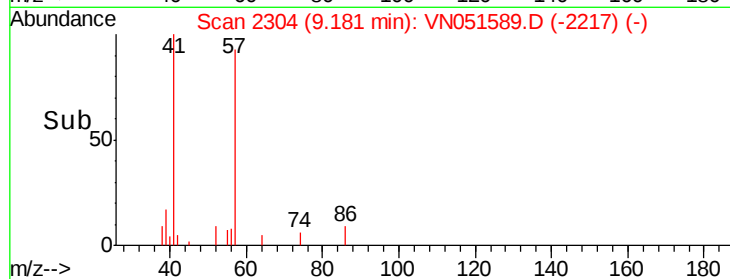
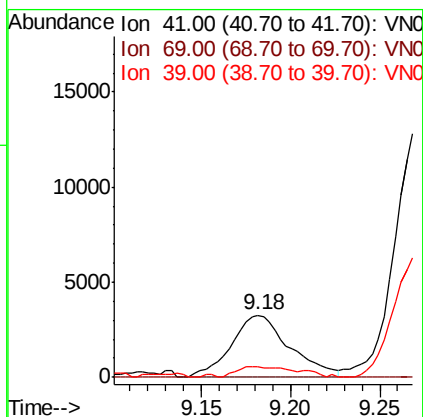
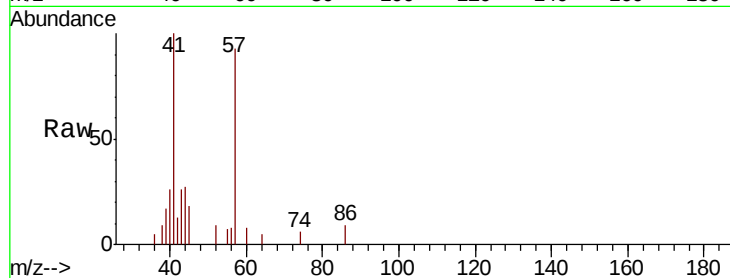




#48
Methvl methacrylate
Concen: 1.204 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051589.D
Acq: 27 Sep 2018 18:04

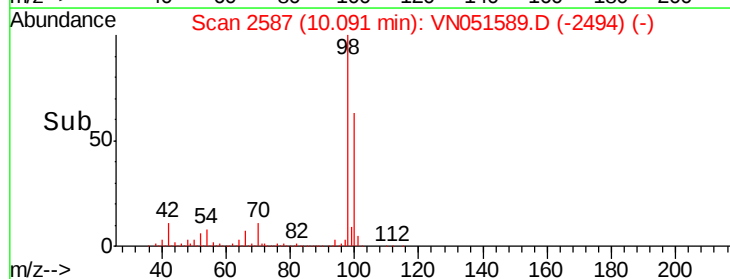
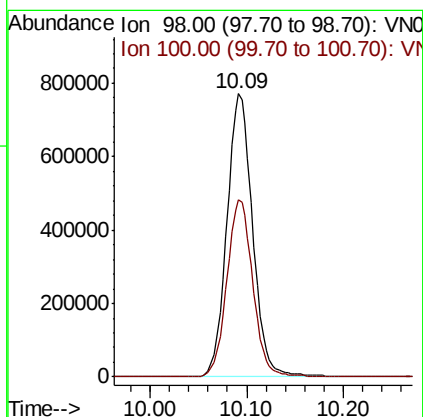
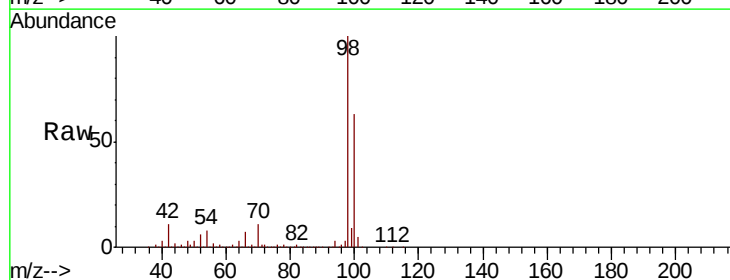
Instrument :
MSVOA_N
ClientSampleId :
PB113263ZHE#01

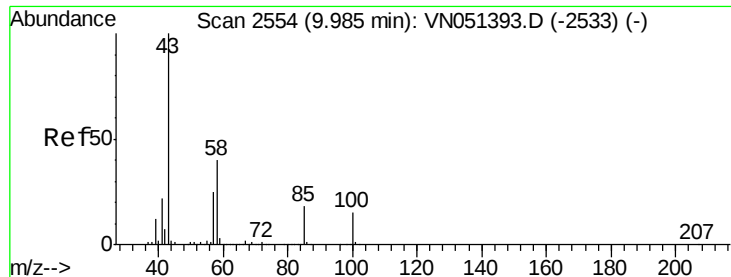
Tot Ion: 41 Resp: 7436
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 9.3 43.8 65.8#



#50
Toluene-d8
Concen: 45.921 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051589.D
Acq: 27 Sep 2018 18:04

Tgt Ion: 98 Resp: 1423119
Ion Ratio Lower Upper
98 100
100 63.2 50.6 75.8

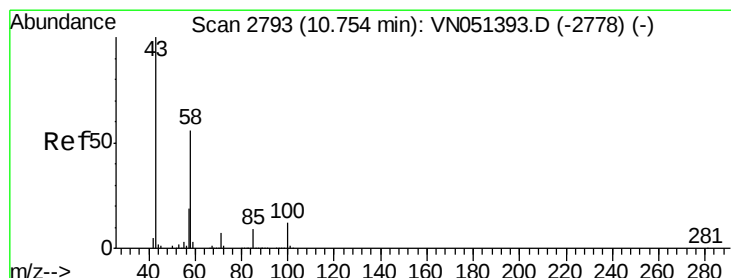
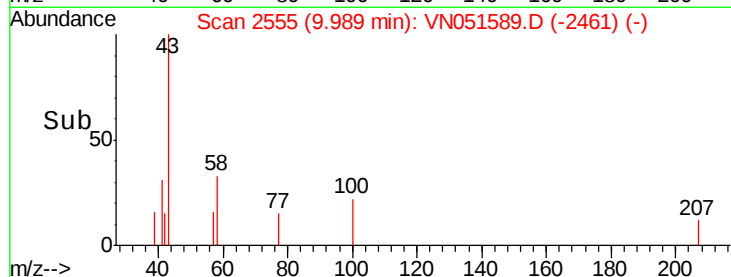
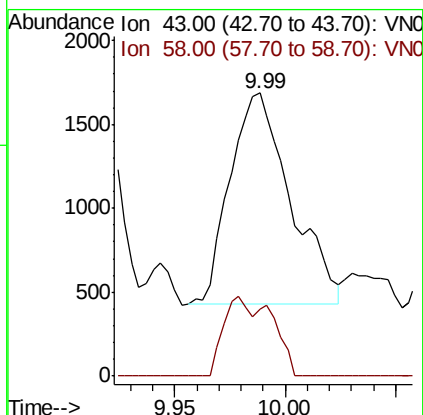
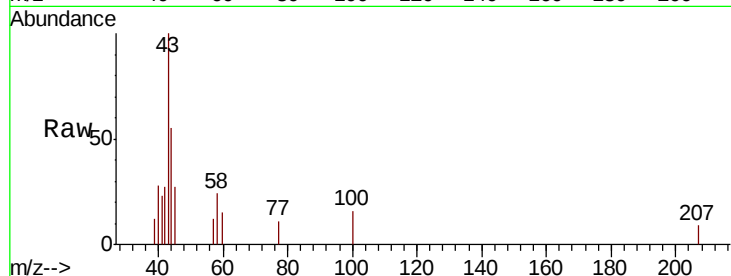




#51
 4-Methyl-2-Pentanone
 Concen: 0.352 ug/l
 RT: 9.99 min Scan# 2555
 Delta R.T. 0.00 min
 Lab File: VN051589.D
 Acq: 27 Sep 2018 18:04

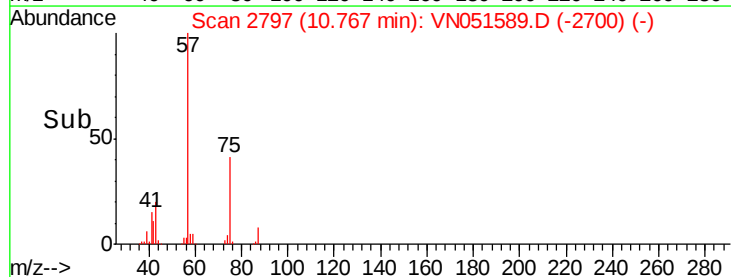
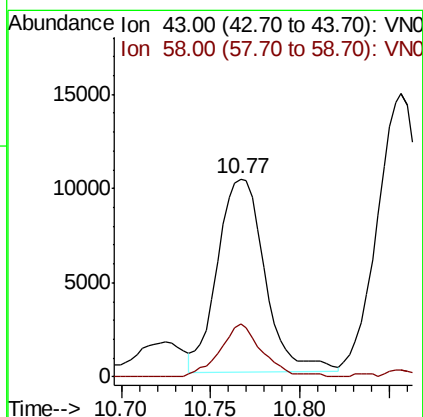
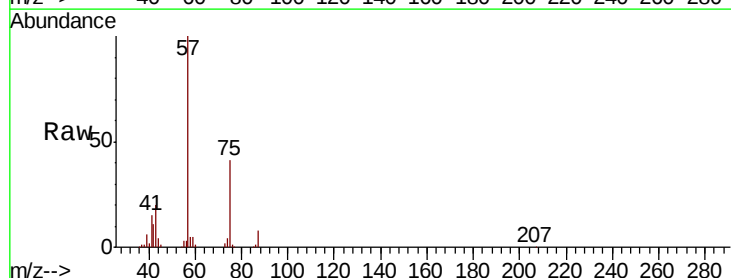
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113263ZHE#01

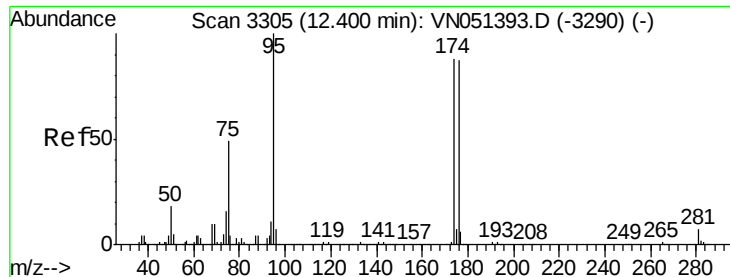
Tot Ion: 43 Resp: 2396
 Ion Ratio Lower Upper
 43 100
 58 17.4 31.5 47.3#



#59
 2-Hexanone
 Concen: 4.290 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN051589.D
 Acq: 27 Sep 2018 18:04

Tgt Ion: 43 Resp: 18950
 Ion Ratio Lower Upper
 43 100
 58 24.1 27.7 83.0#





#62

4-Bromofluorobenzene

Concen: 36.358 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051589.D

Acq: 27 Sep 2018 18:04

Instrument :

MSVOA_N

ClientSampleId :

PB113263ZHE#01

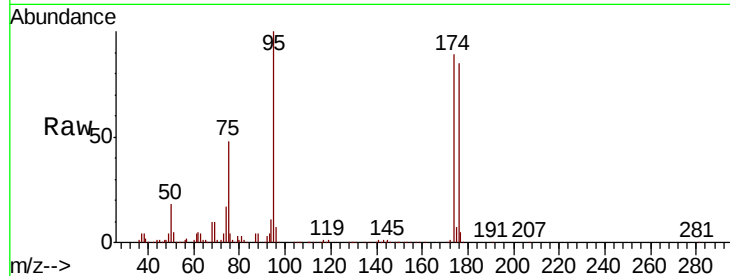
Tot Ion: 95 Resp: 364501

Ion Ratio Lower Upper

95 100

174 89.8 0.0 181.6

176 85.6 0.0 176.4



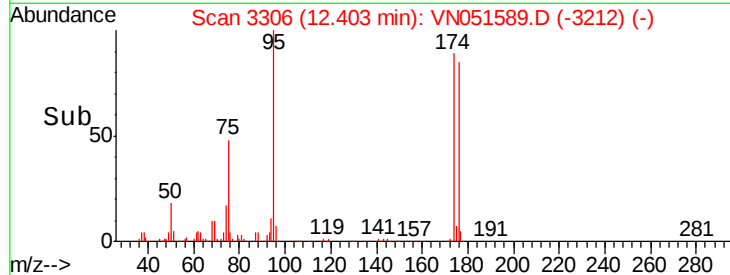
Abundance Ion 94.90 (94.60 to 95.60): VN051393.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051393.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051393.D (-3290) (-)

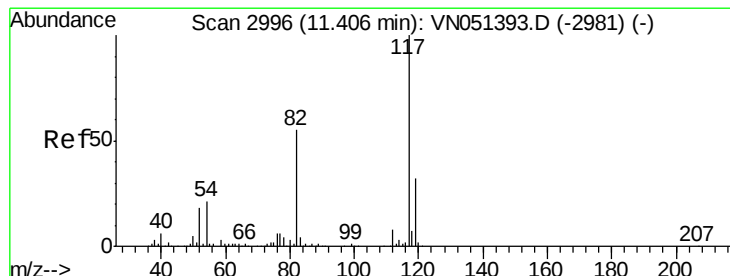
12.40

Time-->



12.40

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051589.D

Acq: 27 Sep 2018 18:04

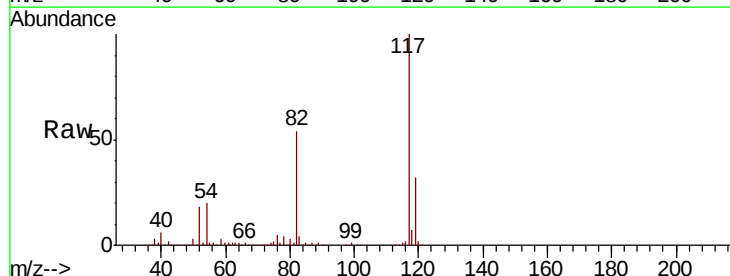
Tgt Ion: 117 Resp: 850034

Ion Ratio Lower Upper

117 100

82 54.5 44.2 66.2

119 31.6 25.9 38.9



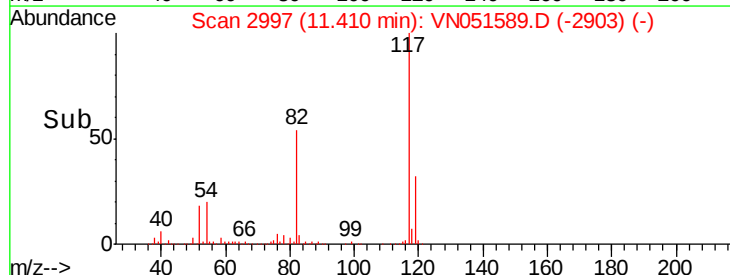
Abundance Ion 116.90 (116.60 to 117.60): VN051393.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051393.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051393.D (-2981) (-)

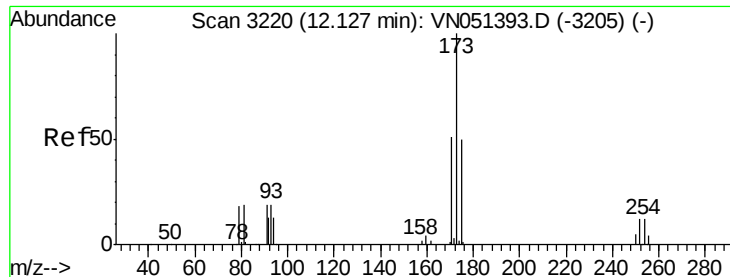
11.41

Time-->



11.41

Time-->



#71

Bromoform

Concen: 0.333 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051589.D

Acq: 27 Sep 2018 18:04

Instrument :

MSVOA_N

ClientSampleId :

PB113263ZHE#01

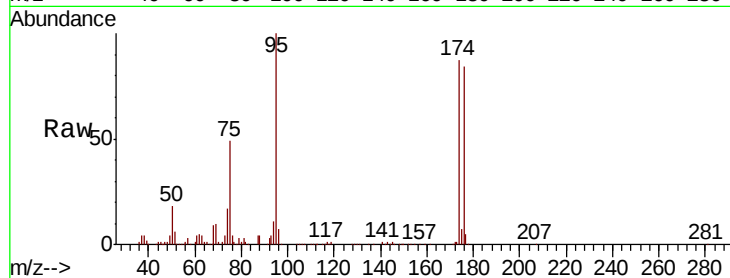
Tot Ion:173 Resp: 1877

Ion Ratio Lower Upper

173 100

175 1078.4 24.8 74.3#

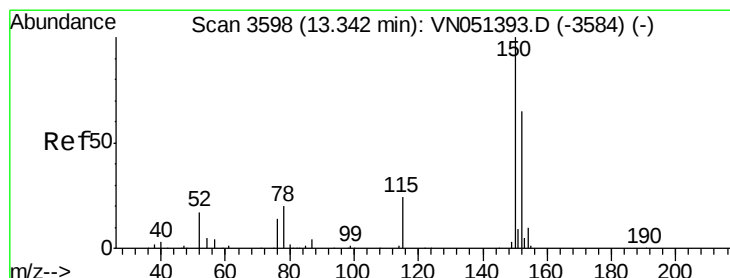
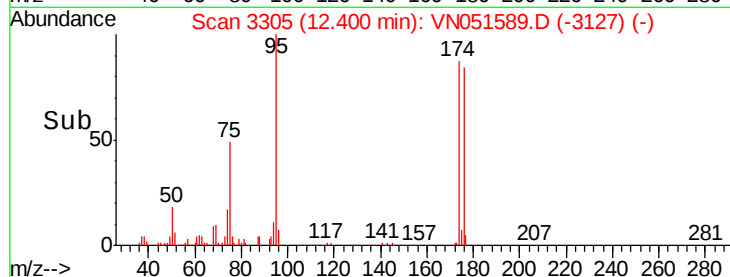
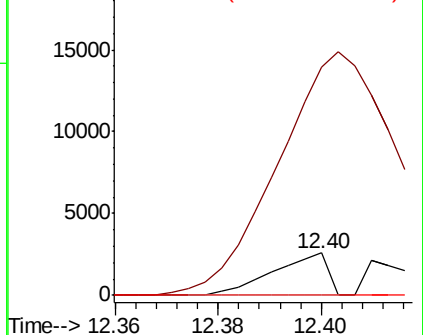
254 0.0 0.2 0.2#



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: VN051589.D

Acq: 27 Sep 2018 18:04

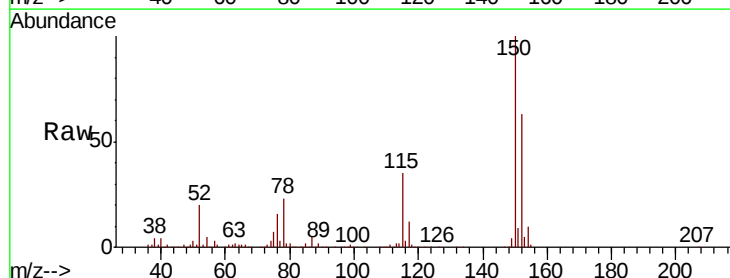
Tgt Ion:152 Resp: 269965

Ion Ratio Lower Upper

152 100

115 56.3 28.3 84.9

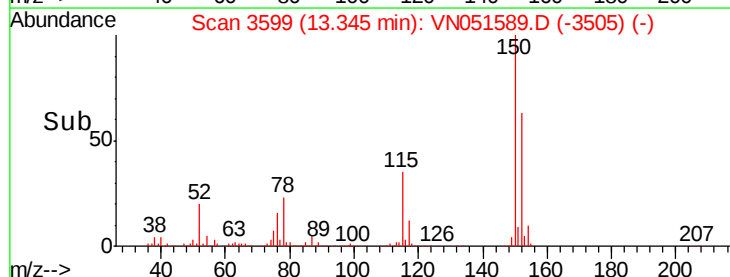
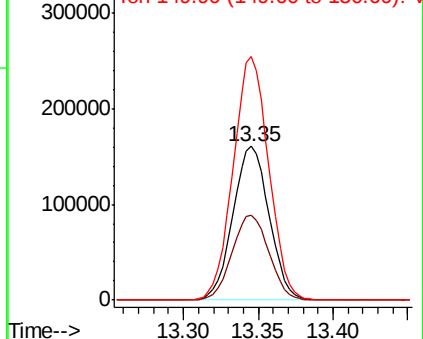
150 155.9 0.0 353.6

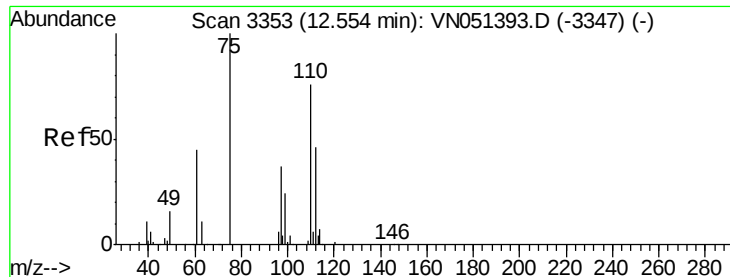


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 39.778 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051589.D

Acq: 27 Sep 2018 18:04

Instrument :

MSVOA_N

ClientSampleId :

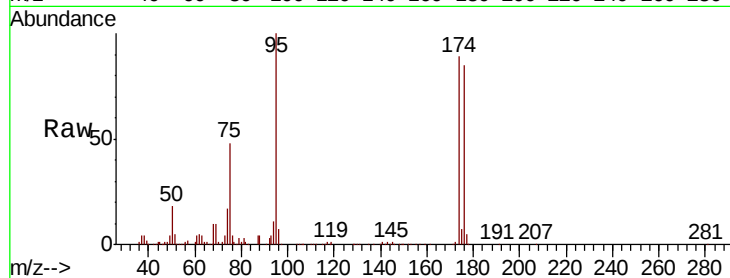
PB113263ZHE#01

Tot Ion: 75 Resp: 178268

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051393.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN051393.D (-3347) (-)

120000

100000

80000

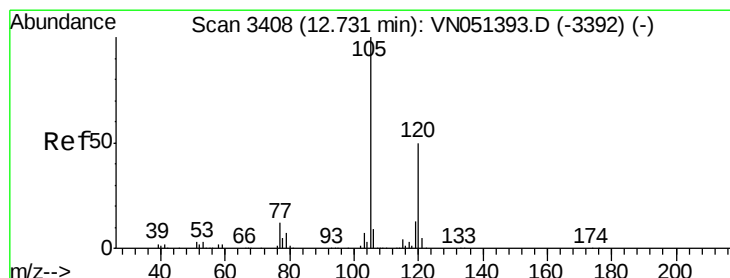
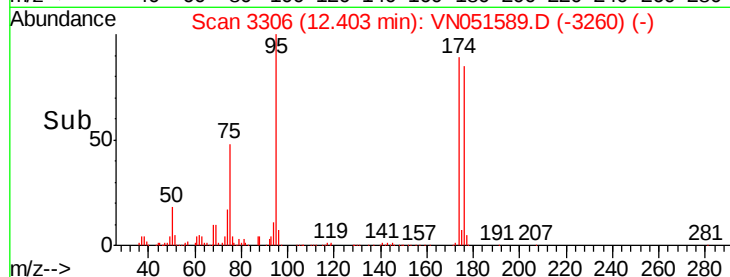
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#80

1,3,5-Trimethylbenzene

Concen: 0.240 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051589.D

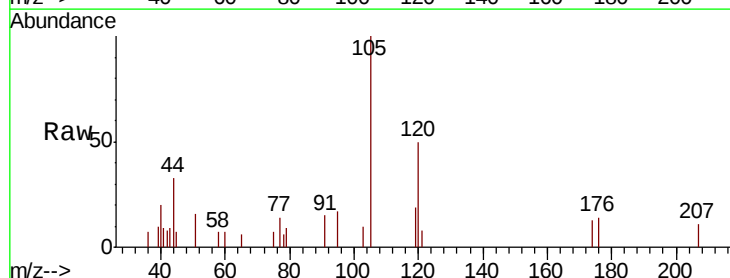
Acq: 27 Sep 2018 18:04

Tgt Ion:105 Resp: 4464

Ion Ratio Lower Upper

105 100

120 55.9 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): VN051393.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN051393.D (-3392) (-)

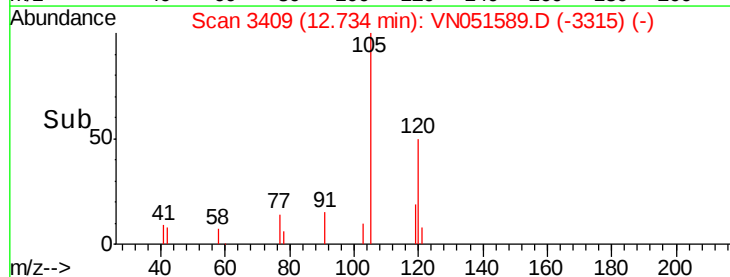
3000

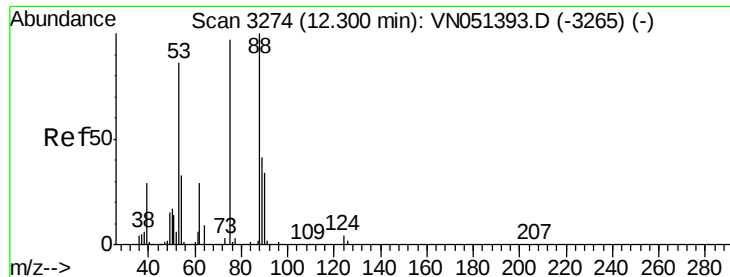
2000

1000

0

Time--> 12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 122.314 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051589.D

Acq: 27 Sep 2018 18:04

Instrument :

MSVOA_N

ClientSampleId :

PB113263ZHE#01

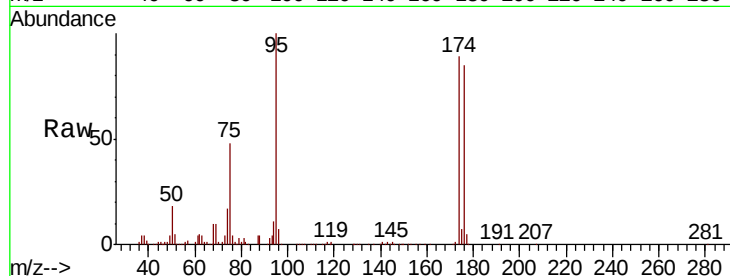
Tot Ion: 75 Resp: 178268

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

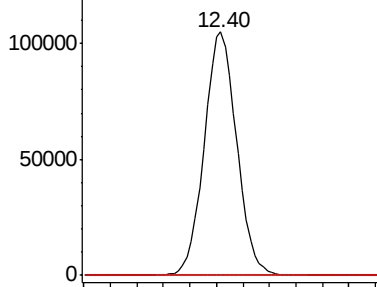
89 0.0 36.7 55.1#



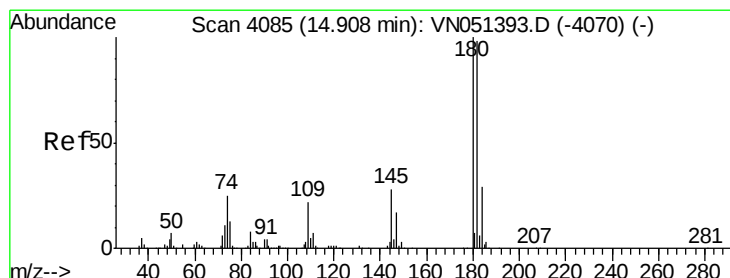
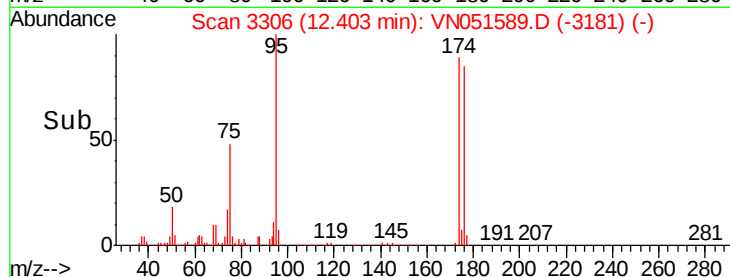
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time--> 12.30 12.40 12.50



#93

1,2,4-Trichlorobenzene

Concen: 6.102 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN051589.D

Acq: 27 Sep 2018 18:04

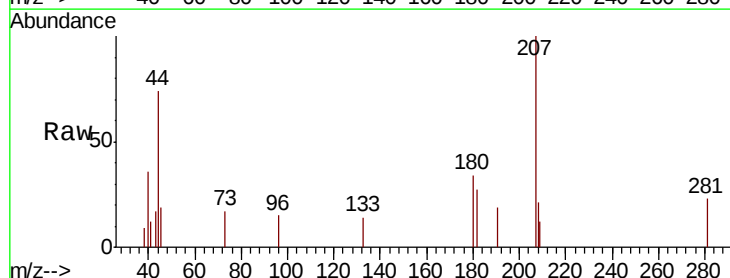
Tgt Ion: 180 Resp: 716

Ion Ratio Lower Upper

180 100

182 86.9 48.5 145.6

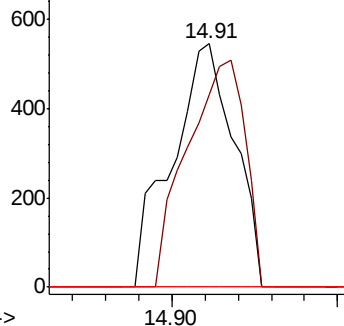
145 0.0 14.1 42.4#



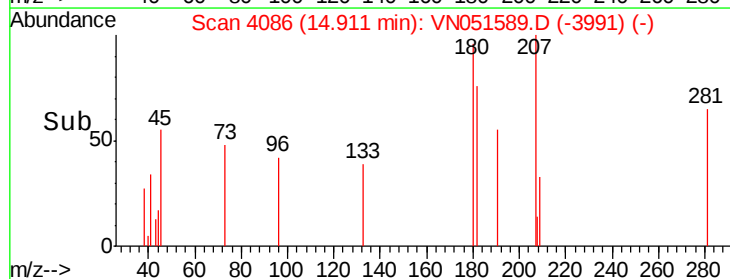
Abundance Ion 179.80 (179.50 to 180.50): V

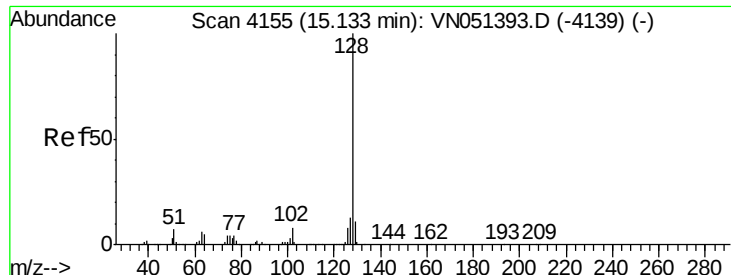
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



Time-->





#95

Naphthalene

Concen: 8.183 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN051589.D

Acq: 27 Sep 2018 18:04

Instrument :

MSVOA_N

ClientSampleId :

PB113263ZHE#01

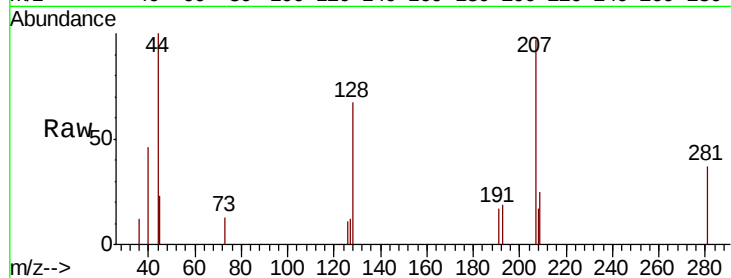
Tot Ion:128 Resp: 1655

Ion Ratio Lower Upper

128 100

127 10.9 10.5 15.7

129 0.0 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

