

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051553.D
 Acq On : 26 Sep 2018 22:51
 Operator : MD\SY
 Sample : PB113219ZHE#10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113219ZHE#10

Quant Time: Sep 27 08:01:27 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	610741	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	999321	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	805999	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	257785	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	438307	57.29	ug/l	0.00
Spiked Amount			Recovery	=	114.58%	
35) Dibromofluoromethane	7.59	113	378514	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	
50) Toluene-d8	10.09	98	1363922	45.33	ug/l	0.00
Spiked Amount			Recovery	=	90.66%	
62) 4-Bromofluorobenzene	12.40	95	342141	35.15	ug/l	0.00
Spiked Amount			Recovery	=	70.30%	

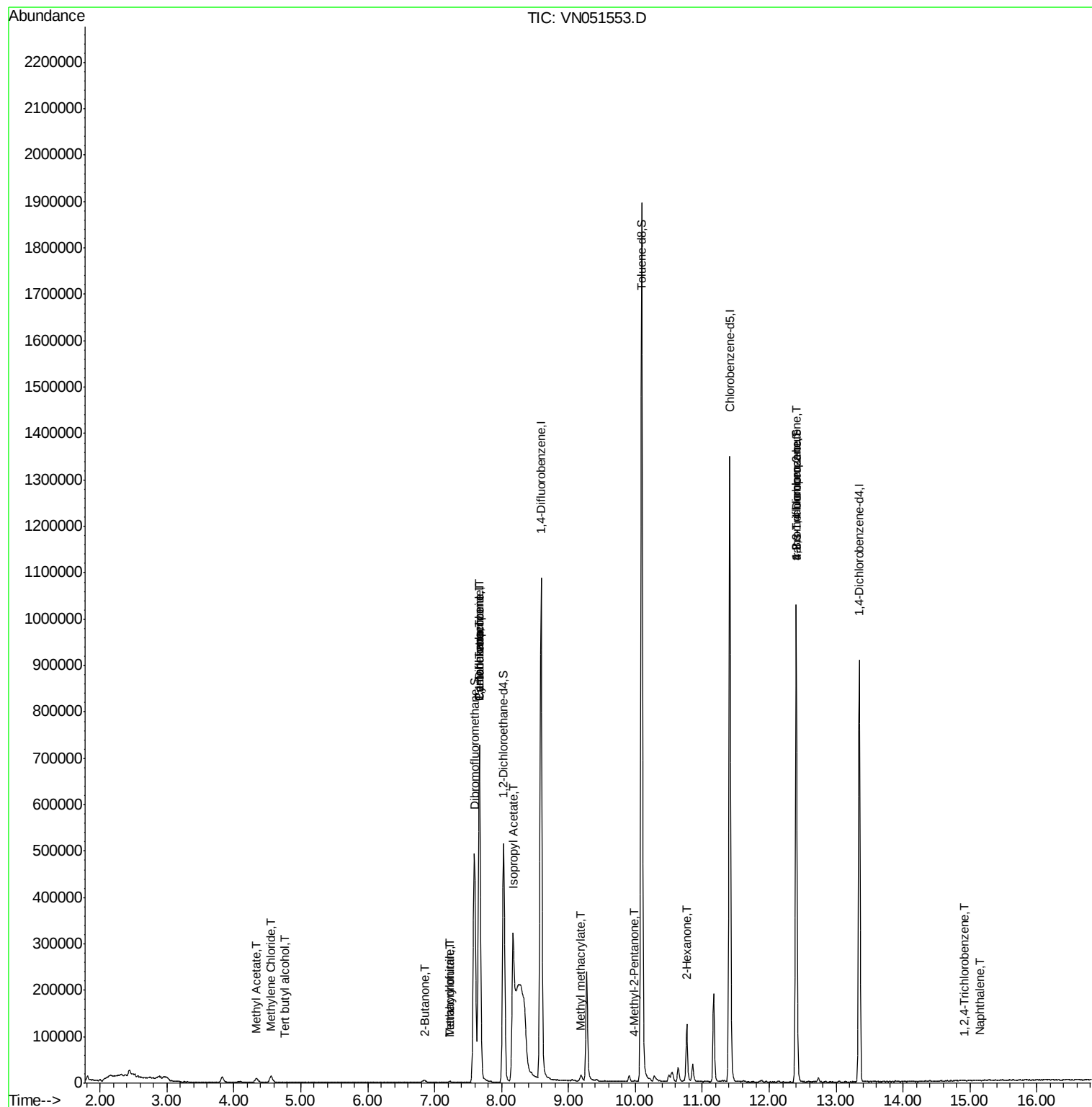
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	259	0.600	ug/l #	78
16) Acetone	3.83	43	19305	Below Cal		99
18) Methyl Acetate	4.34	43	17351	2.978	ug/l #	77
20) Methylene Chloride	4.55	84	9955	1.315	ug/l	96
25) 2-Butanone	6.86	43	4467	1.706	ug/l	90
29) Tetrahydrofuran	7.23	42	1752	1.056	ug/l #	51
31) Cyclohexane	7.67	56	11663	0.968	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	43478	3.757	ug/l #	48
38) Carbon Tetrachloride	7.67	117	56312	4.652	ug/l #	17
41) Methacrylonitrile	7.22	41	1049	0.285	ug/l #	30
43) Isopropyl Acetate	8.17	43	438639	36.457	ug/l #	86
48) Methyl methacrylate	9.18	41	8370	1.395	ug/l #	22
51) 4-Methyl-2-Pentanone	9.99	43	1604	0.242	ug/l	98
59) 2-Hexanone	10.77	43	17176	4.004	ug/l #	58
76) 1,2,3-Trichloropropane	12.40	75	166397	38.883	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	166397	119.563	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	101	6.000	ug/l #	11
95) Naphthalene	15.14	128	243	8.066	ug/l #	69

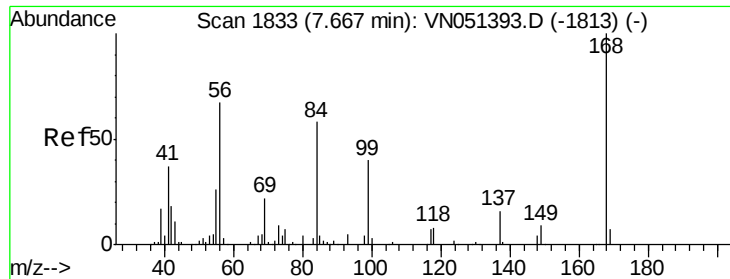
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051553.D

Acq: 26 Sep 2018 22:51

Instrument :

MSVOA_N

ClientSampleId :

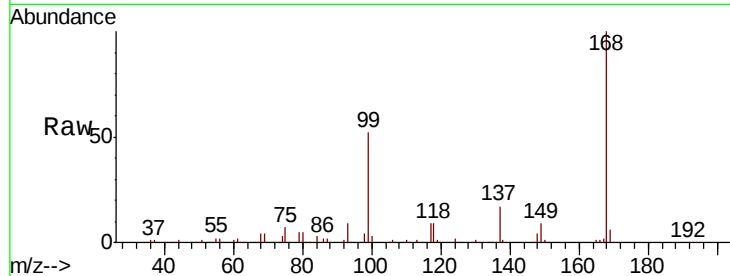
PB113219ZHE#10

Tot Ion:168 Resp: 610741

Ion Ratio Lower Upper

168 100

99 51.9 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

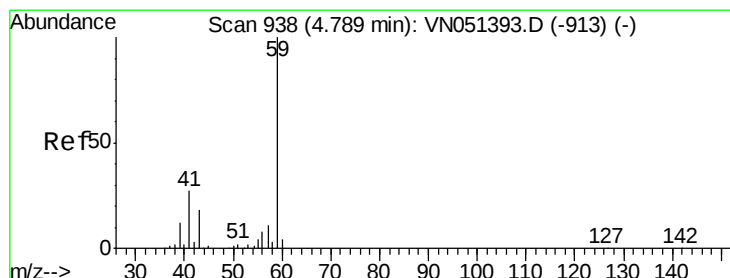
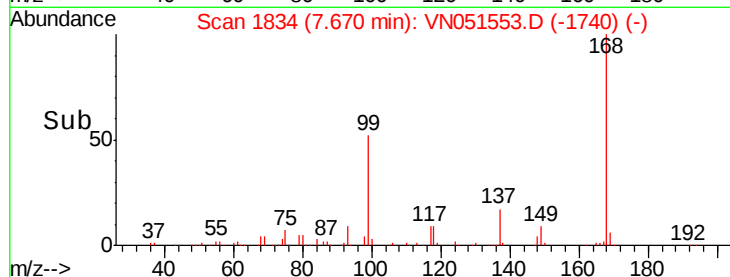
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.600 ug/l

RT: 4.76 min Scan# 929

Delta R.T. -0.03 min

Lab File: VN051553.D

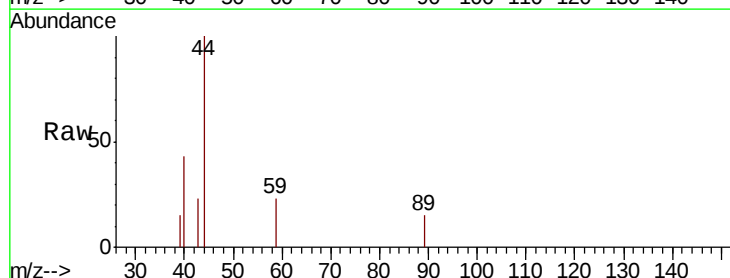
Acq: 26 Sep 2018 22:51

Tgt Ion: 59 Resp: 259

Ion Ratio Lower Upper

59 100

57 0.0 6.2 9.2#



Abundance Ion 59.00 (58.70 to 59.70): VN051393.D (-913) (-)

Ion 57.00 (56.70 to 57.70): VN051393.D (-913) (-)

4.76

250

200

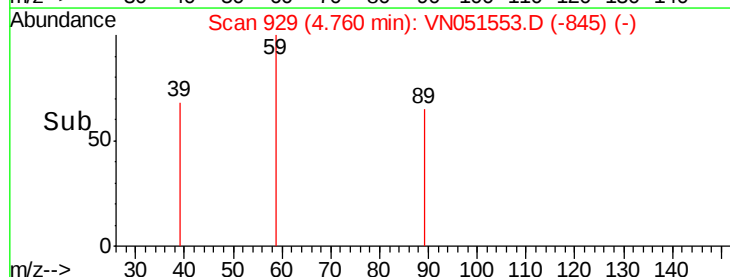
150

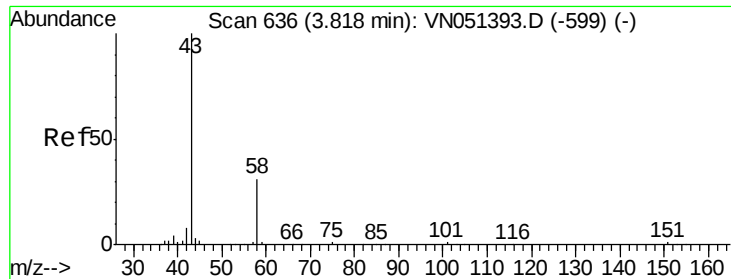
100

50

0

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051553.D

Acq: 26 Sep 2018 22:51

Instrument :

MSVOA_N

ClientSampleId :

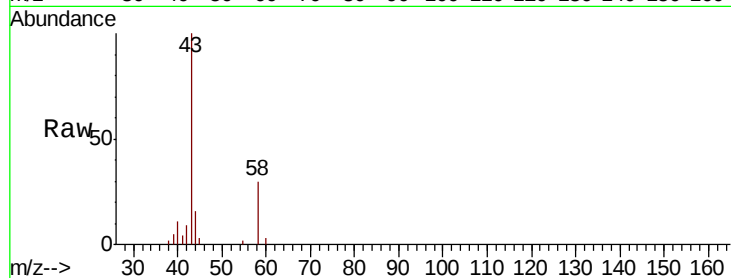
PB113219ZHE#10

Tot Ion: 43 Resp: 19305

Ion Ratio Lower Upper

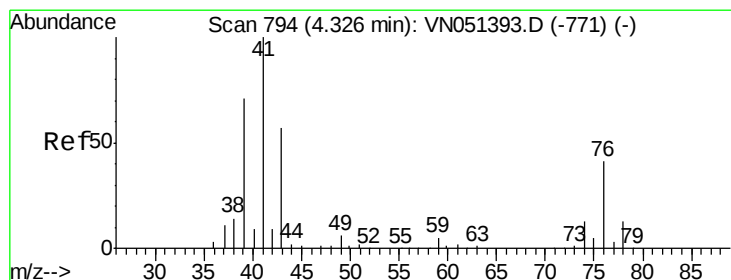
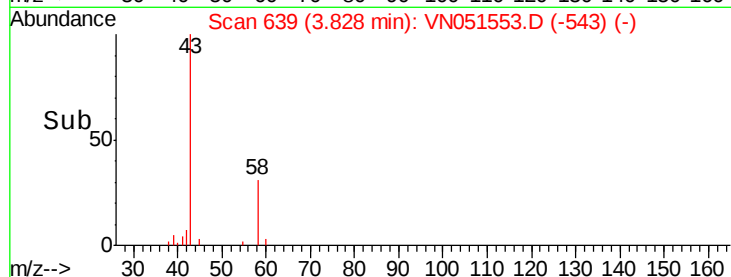
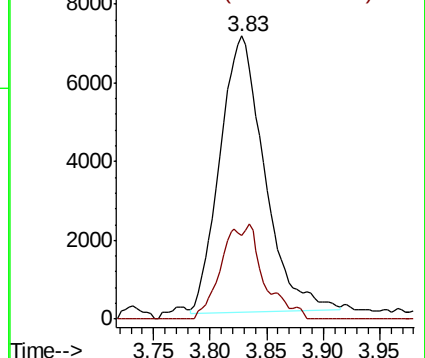
43 100

58 30.7 25.0 37.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 2.978 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN051553.D

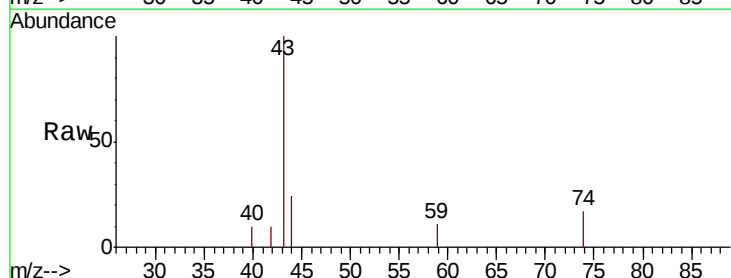
Acq: 26 Sep 2018 22:51

Tgt Ion: 43 Resp: 17351

Ion Ratio Lower Upper

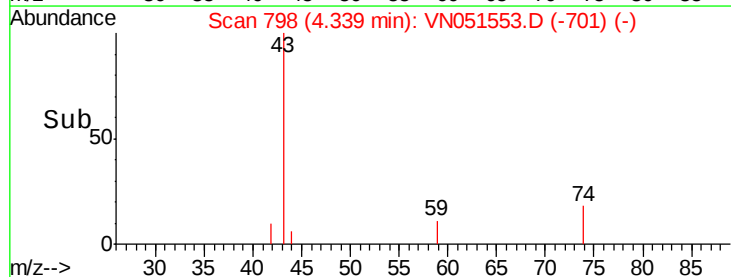
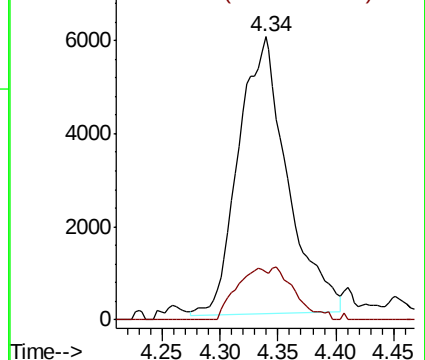
43 100

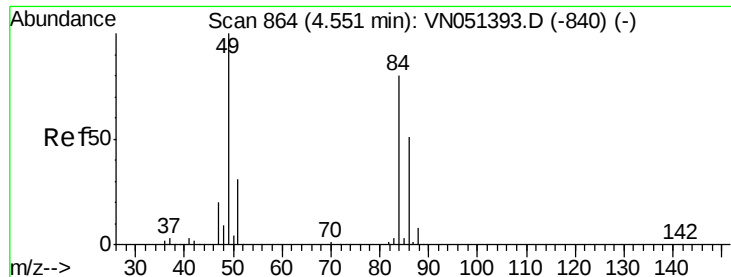
74 12.4 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

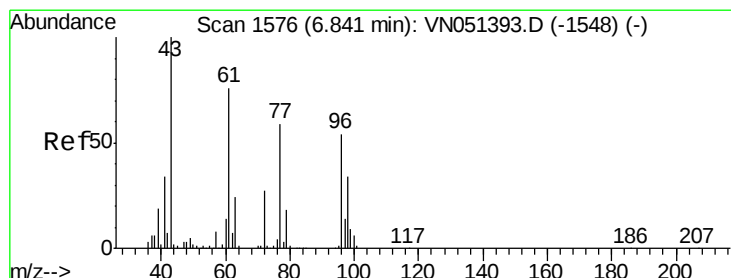
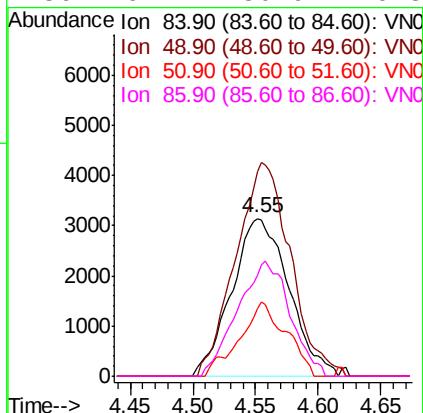
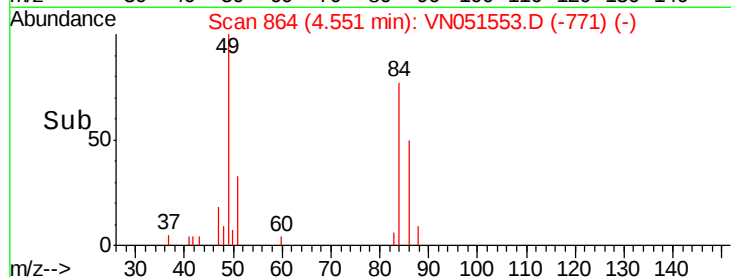
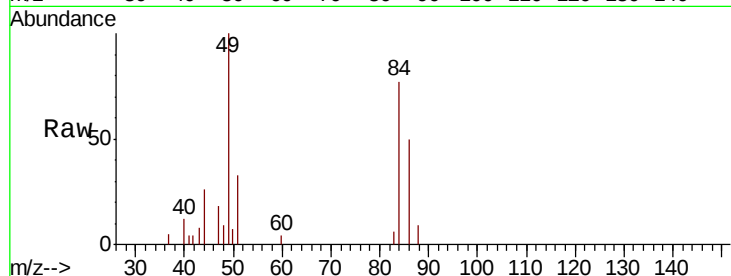




#20
Methvlene Chloride
Concen: 1.315 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051553.D
Acq: 26 Sep 2018 22:51

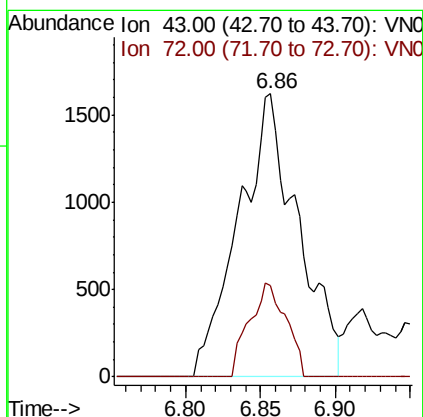
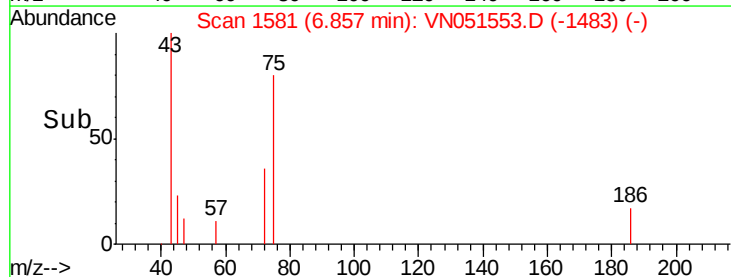
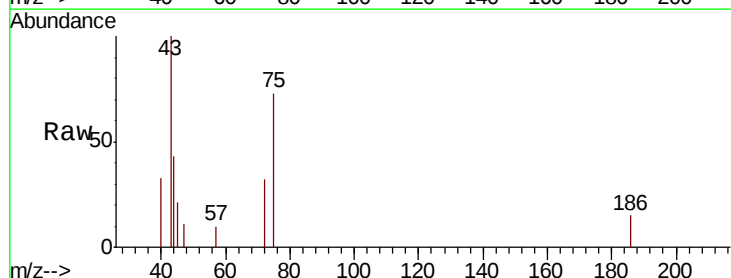
Instrument :
MSVOA_N
ClientSampleId :
PB113219ZHE#10

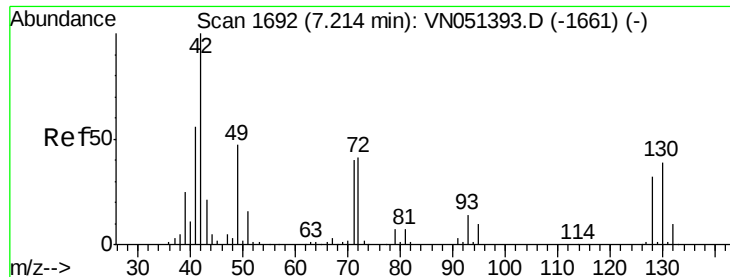
Tot Ion: 84 Resp: 9955
Ion Ratio Lower Upper
84 100
49 129.9 99.9 149.9
51 42.7 31.4 47.2
86 64.4 50.9 76.3



#25
2-Butanone
Concen: 1.706 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN051553.D
Acq: 26 Sep 2018 22:51

Tgt Ion: 43 Resp: 4467
Ion Ratio Lower Upper
43 100
72 32.2 21.8 32.6





#29

Tetrahydrofuran

Concen: 1.056 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.01 min

Lab File: VN051553.D

Acq: 26 Sep 2018 22:51

Instrument :

MSVOA_N

ClientSampleId :

PB113219ZHE#10

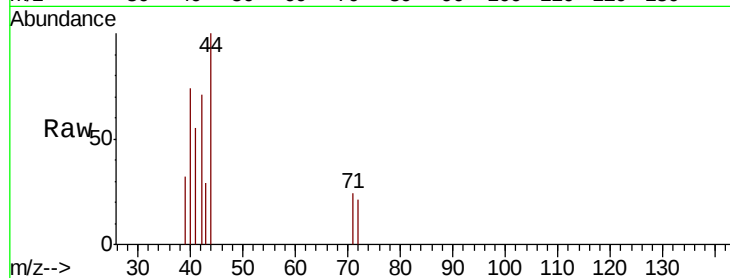
Tot Ion: 42 Resp: 1752

Ion Ratio Lower Upper

42 100

72 10.6 34.3 51.5#

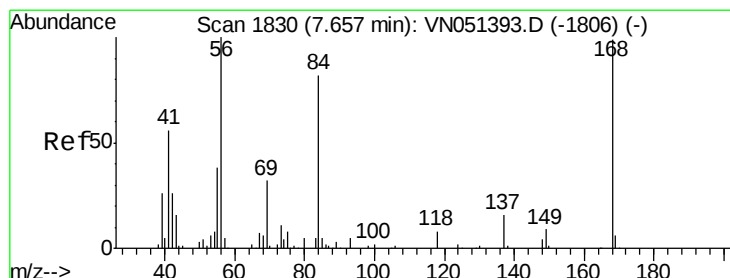
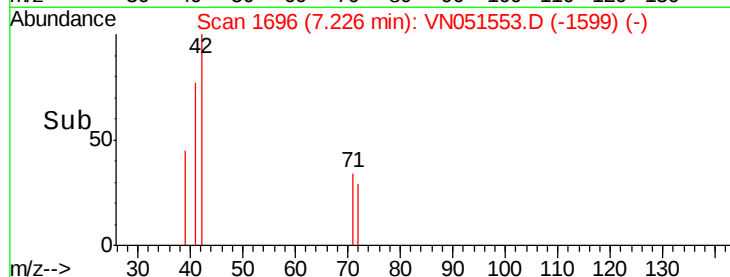
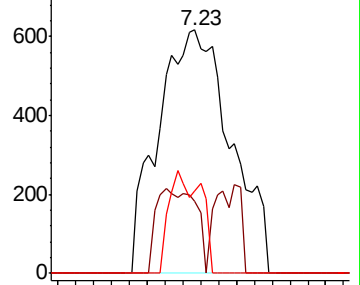
71 11.4 32.2 48.4#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.968 ug/l

RT: 7.67 min Scan# 1835

Delta R.T. 0.02 min

Lab File: VN051553.D

Acq: 26 Sep 2018 22:51

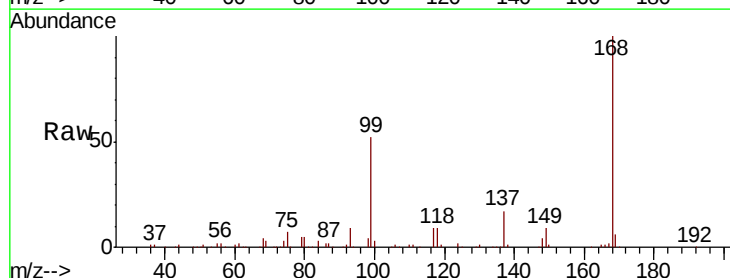
Tgt Ion: 56 Resp: 11663

Ion Ratio Lower Upper

56 100

69 173.8 25.8 38.6#

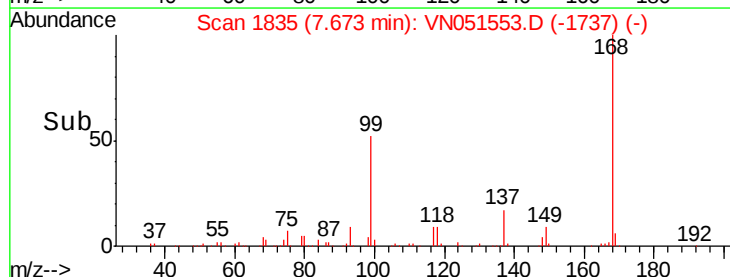
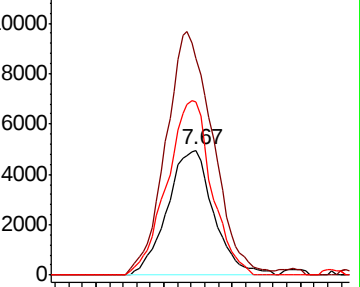
84 138.6 66.0 99.0#

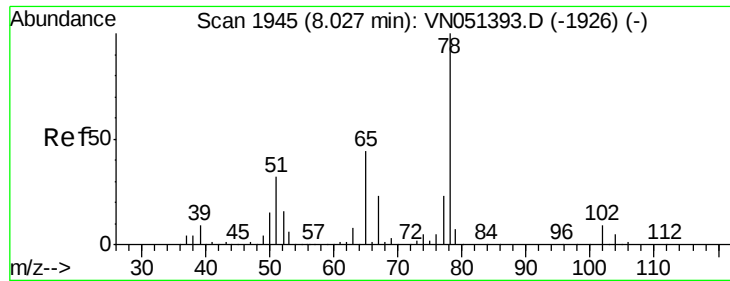


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 57.290 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051553.D

Acq: 26 Sep 2018 22:51

Instrument :

MSVOA_N

ClientSampleId :

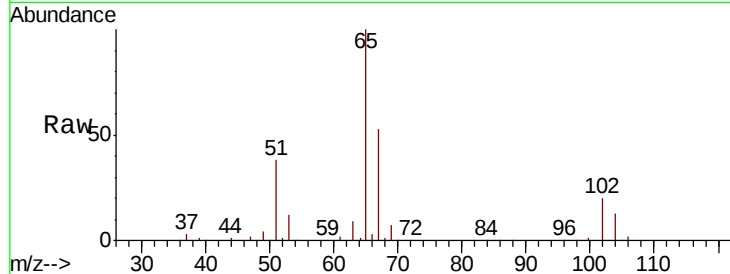
PB113219ZHE#10

Tot Ion: 65 Resp: 438307

Ion Ratio Lower Upper

65 100

67 53.1 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

200000

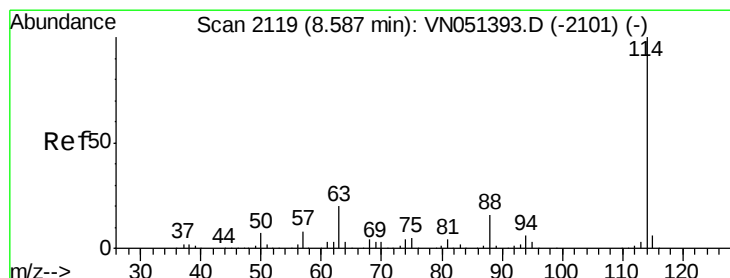
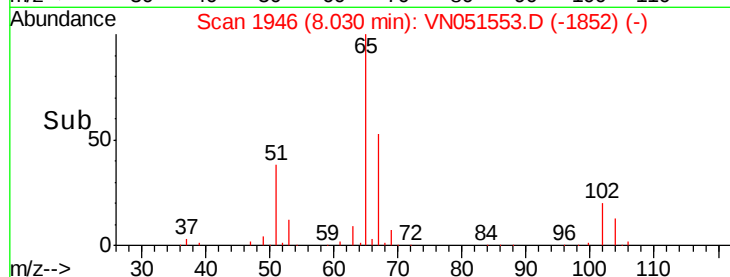
150000

100000

50000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2120

Delta R.T. 0.00 min

Lab File: VN051553.D

Acq: 26 Sep 2018 22:51

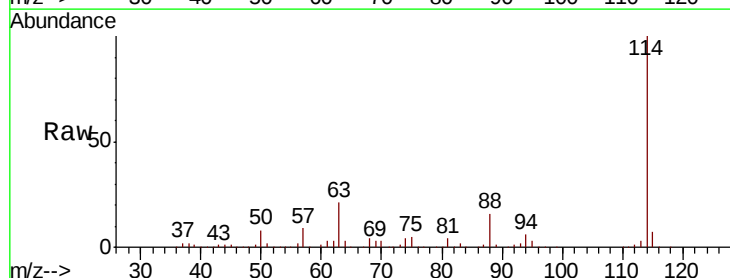
Tgt Ion: 114 Resp: 999321

Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.2

88 16.0 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.59

600000

500000

400000

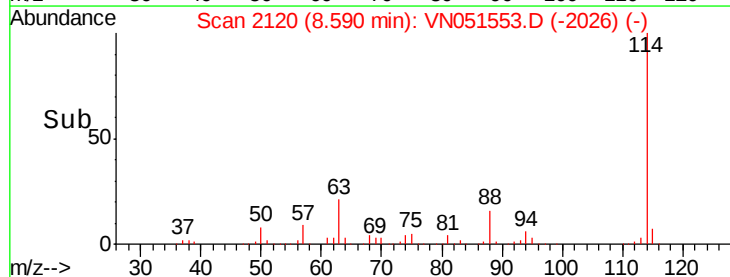
300000

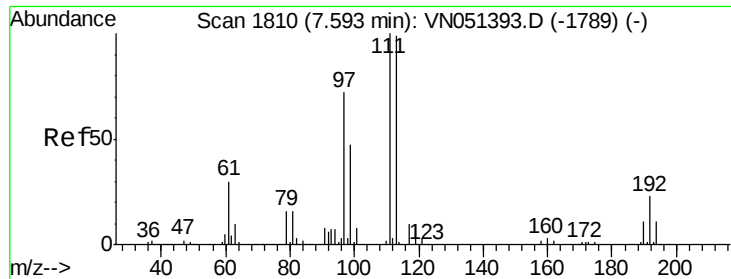
200000

100000

0

Time--> 8.50 8.60 8.70

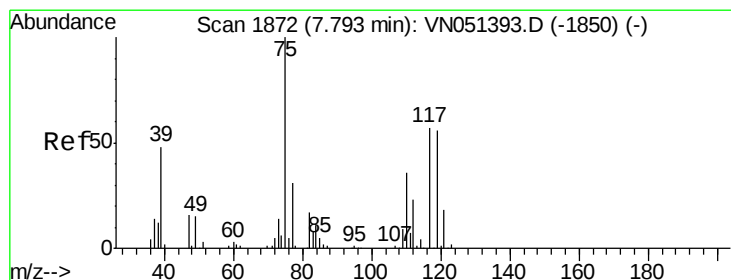
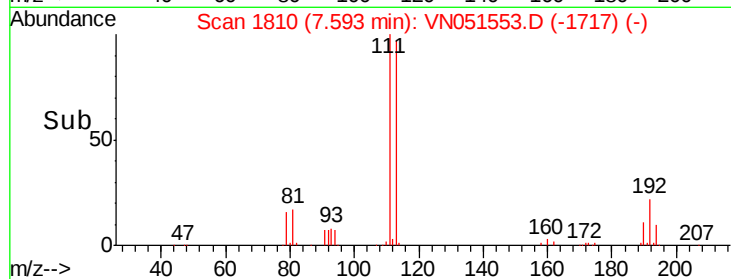
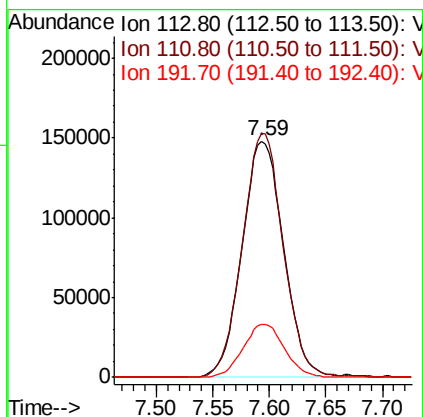
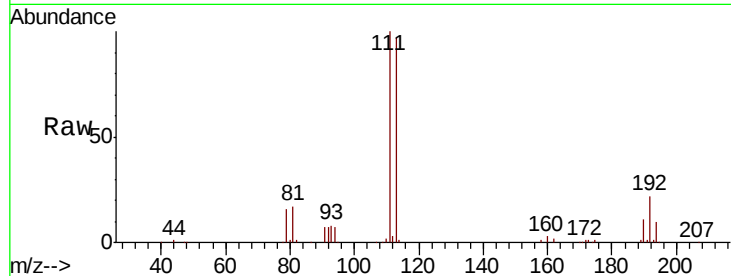




#35
Dibromofluoromethane
Concen: 47.367 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VN051553.D
Acq: 26 Sep 2018 22:51

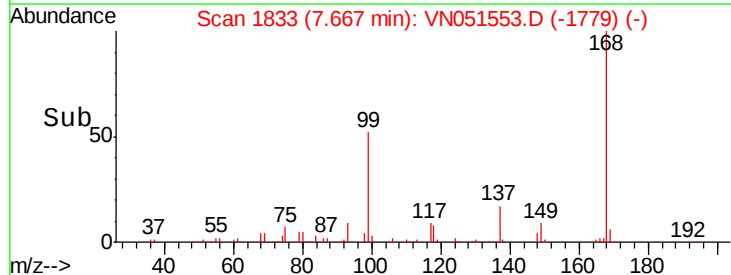
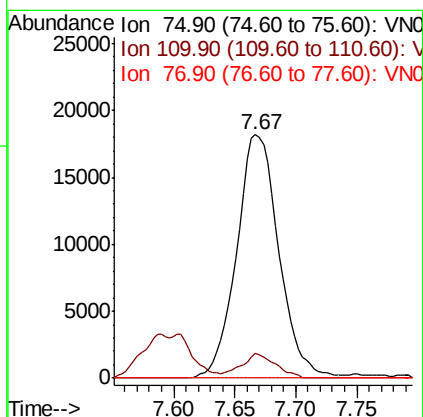
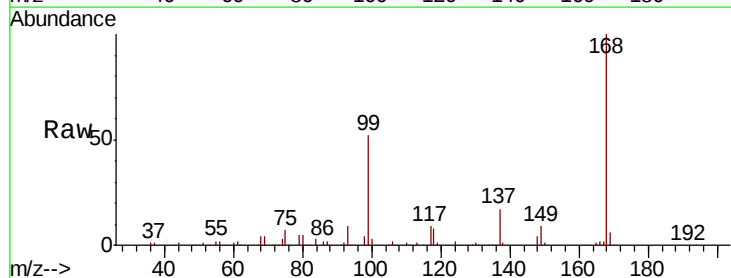
Instrument :
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PB113219ZHE#10

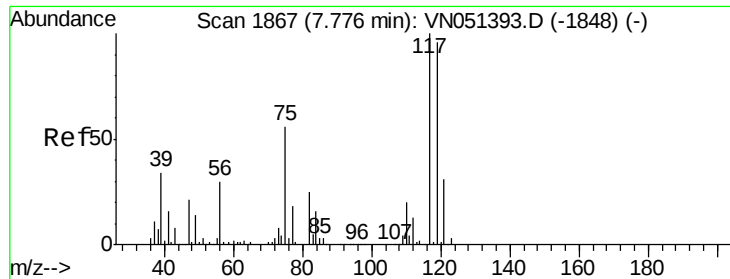
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.6	123.8
192	22.4	18.0	27.0



#36
1,1-Dichloropropene
Concen: 3.757 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.13 min
Lab File: VN051553.D
Acq: 26 Sep 2018 22:51

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.1	54.3#
77	0.0	25.6	38.4#





#38

Carbon Tetrachloride

Concen: 4.652 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051553.D

Acq: 26 Sep 2018 22:51

Instrument :

MSVOA_N

ClientSampleId :

PB113219ZHE#10

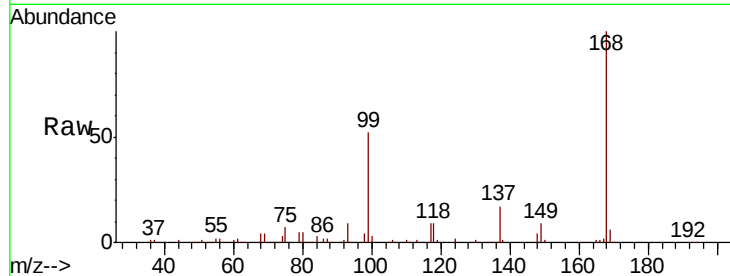
Tot Ion:117 Resp: 56312

Ion Ratio Lower Upper

117 100

119 6.4 76.9 115.3#

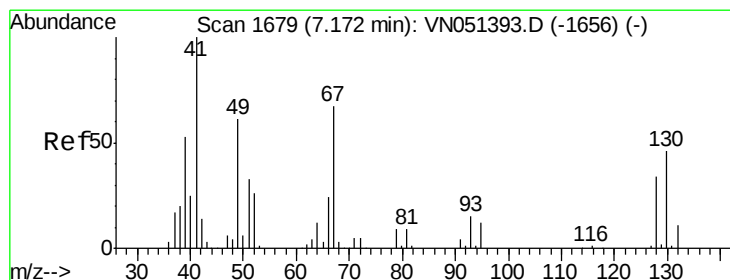
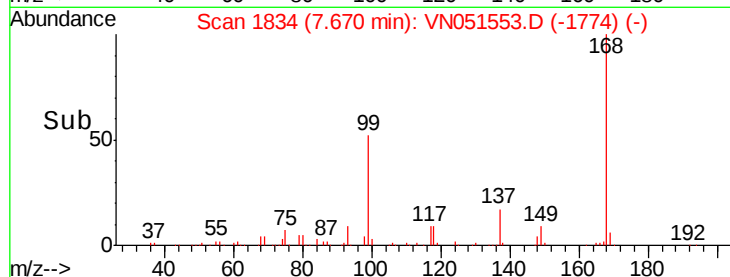
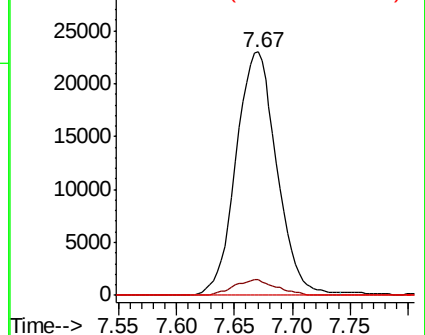
121 0.0 24.6 37.0#



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



#41

Methacrylonitrile

Concen: 0.285 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.04 min

Lab File: VN051553.D

Acq: 26 Sep 2018 22:51

Tgt Ion: 41 Resp: 1049

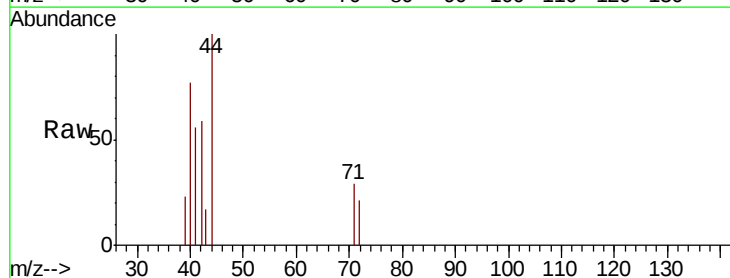
Ion Ratio Lower Upper

41 100

39 27.5 51.4 77.2#

67 0.0 66.8 100.2#

52 0.0 27.7 41.5#

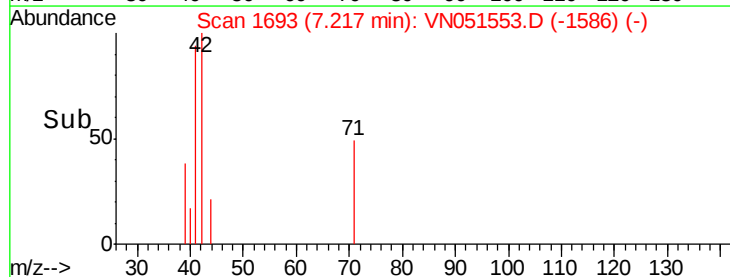
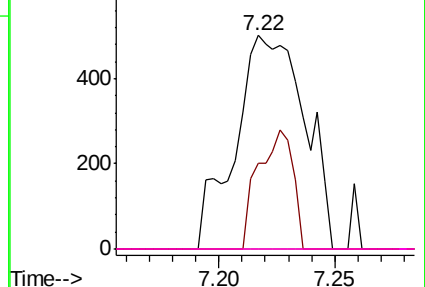


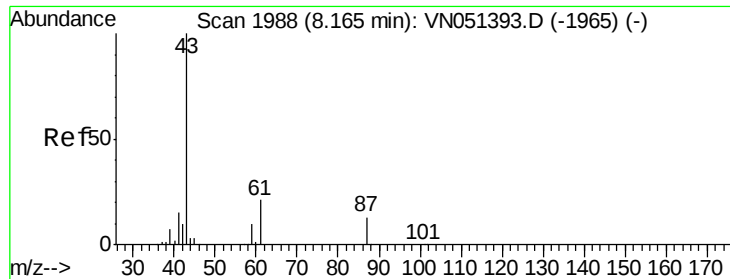
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC





#43

Isopropyl Acetate

Concen: 36.457 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051553.D

Acq: 26 Sep 2018 22:51

Instrument :

MSVOA_N

ClientSampleId :

PB113219ZHE#10

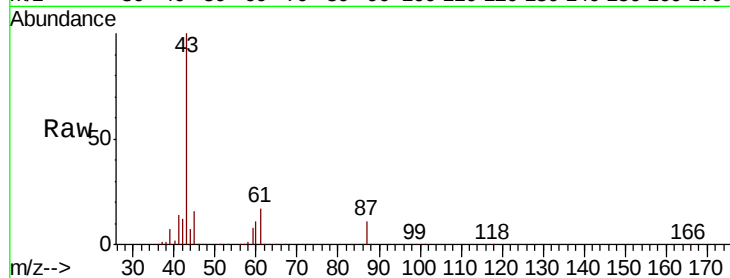
Tot Ion: 43 Resp: 438639

Ion Ratio Lower Upper

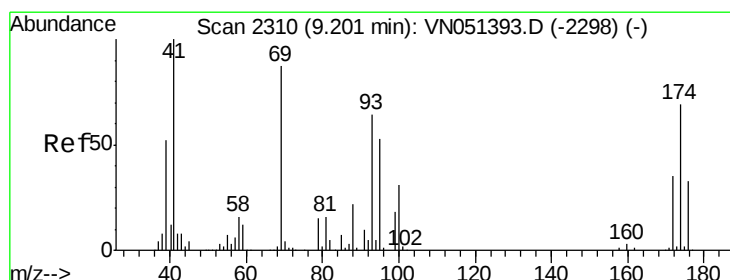
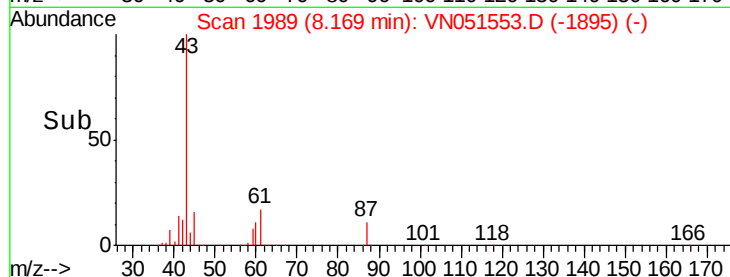
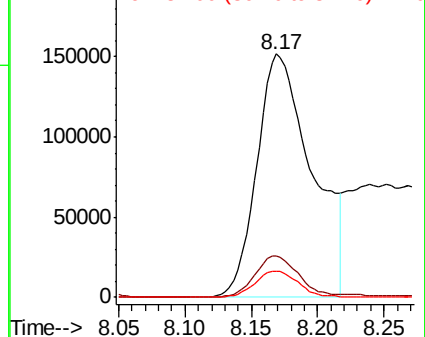
43 100

61 13.6 16.8 25.2#

87 8.5 10.7 16.1#



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



#48

Methyl methacrylate

Concen: 1.395 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051553.D

Acq: 26 Sep 2018 22:51

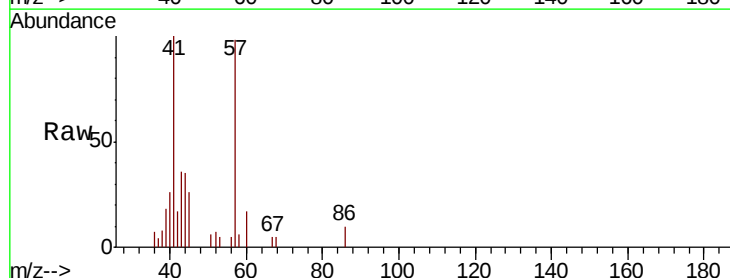
Tgt Ion: 41 Resp: 8370

Ion Ratio Lower Upper

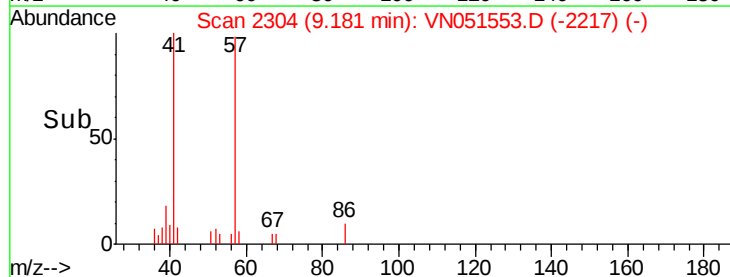
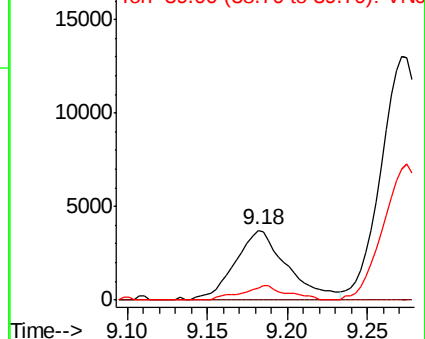
41 100

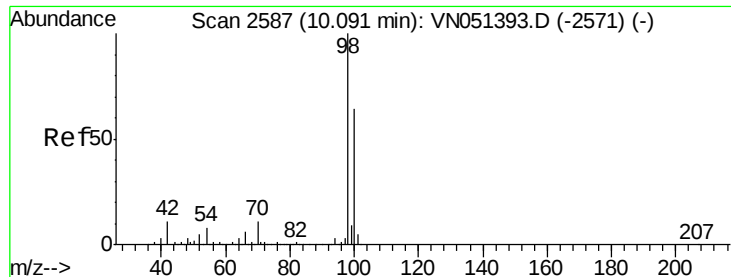
69 0.0 70.4 105.6#

39 17.9 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: 45.326 ug/l

RT: 10.09 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN051553.D

Acq: 26 Sep 2018 22:51

Instrument :

MSVOA_N

ClientSampleId :

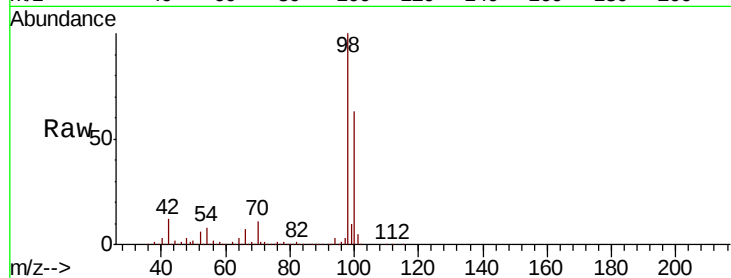
PB113219ZHE#10

Tot Ion: 98 Resp: 1363922

Ion Ratio Lower Upper

98 100

100 62.9 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN051393.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN051393.D (-2571) (-)

10.09

800000

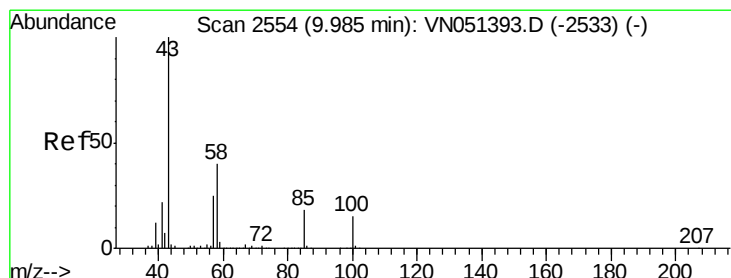
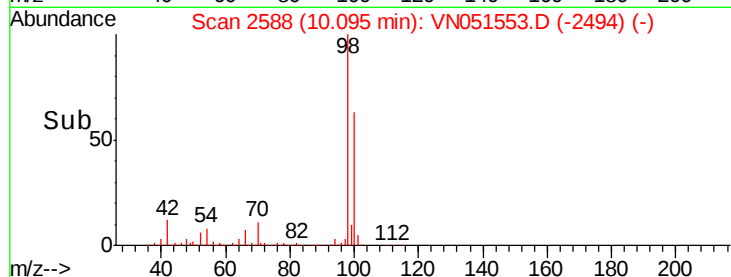
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.242 ug/l

RT: 9.99 min Scan# 2557

Delta R.T. 0.01 min

Lab File: VN051553.D

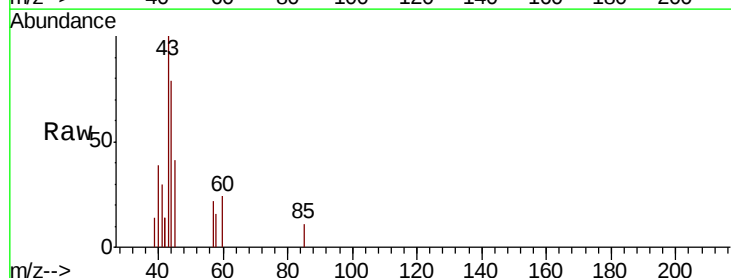
Acq: 26 Sep 2018 22:51

Tgt Ion: 43 Resp: 1604

Ion Ratio Lower Upper

43 100

58 40.9 31.5 47.3



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN051393.D (-2533) (-)

9.99

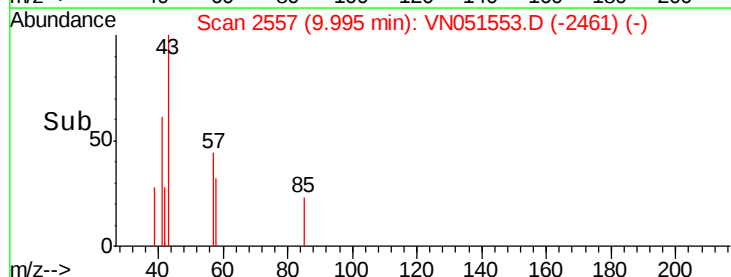
1500

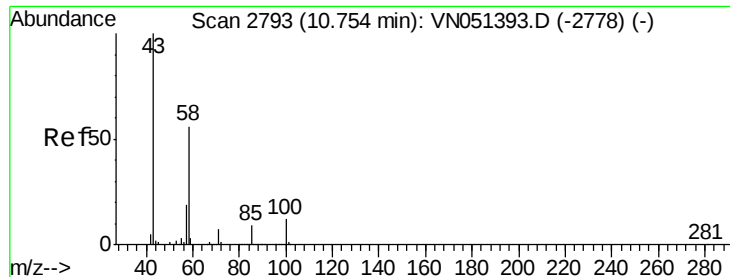
1000

500

0

Time-->

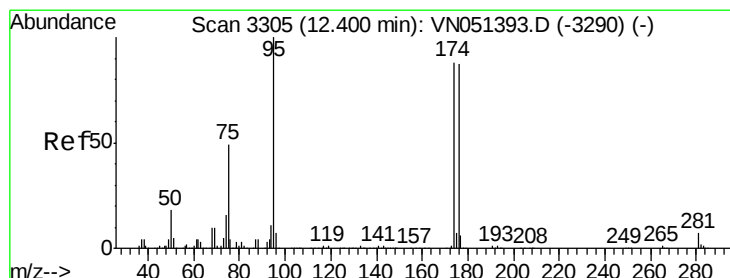
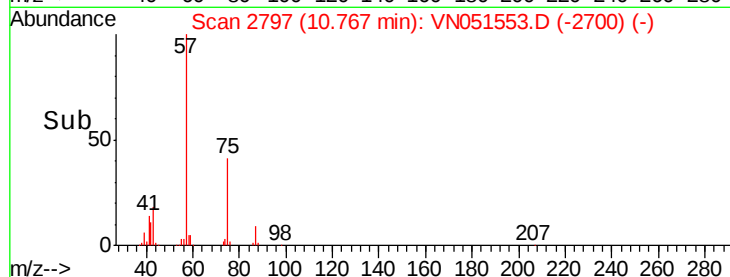
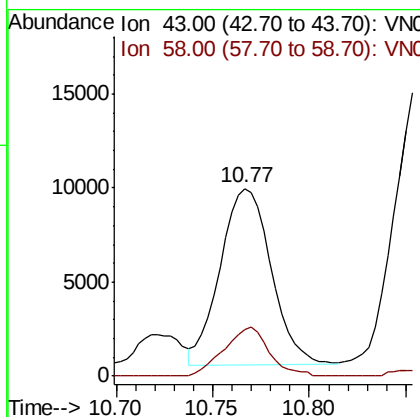
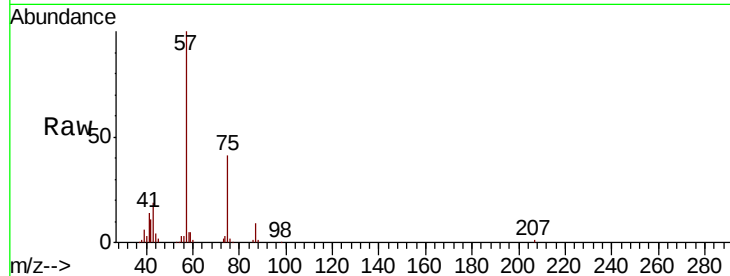




#59
2-Hexanone
Concen: 4.004 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051553.D
Acq: 26 Sep 2018 22:51

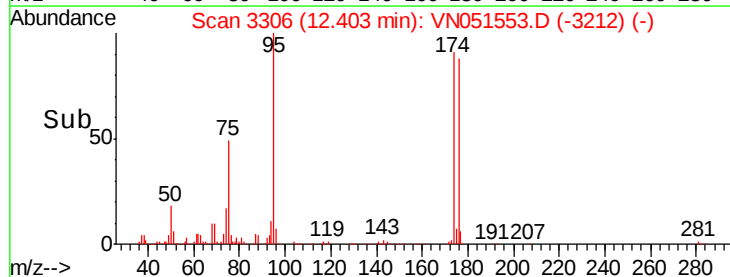
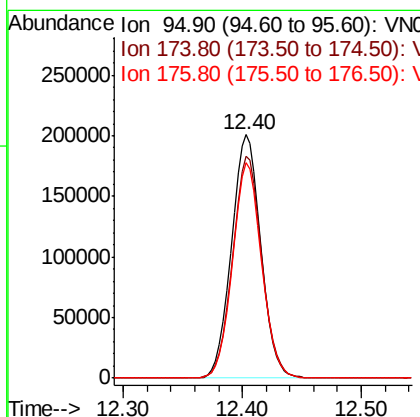
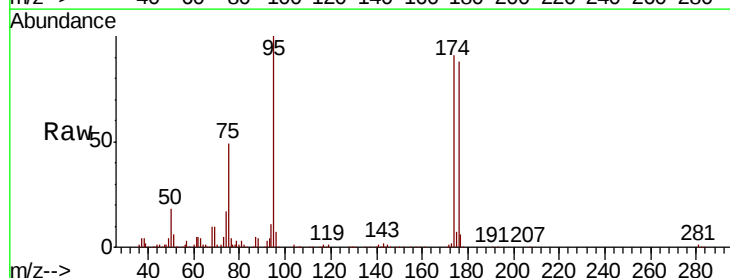
Instrument :
MSVOA_N
ClientSampleId :
PB113219ZHE#10

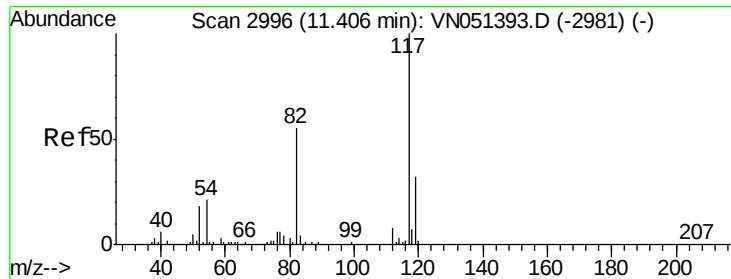
Tot Ion: 43 Resp: 17176
Ion Ratio Lower Upper
43 100
58 24.7 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 35.147 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051553.D
Acq: 26 Sep 2018 22:51

Tgt Ion: 95 Resp: 342141
Ion Ratio Lower Upper
95 100
174 90.8 0.0 181.6
176 87.5 0.0 176.4

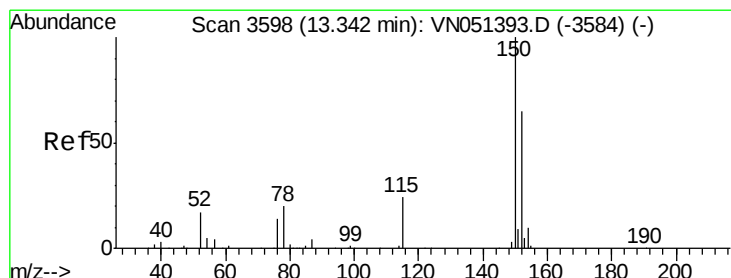
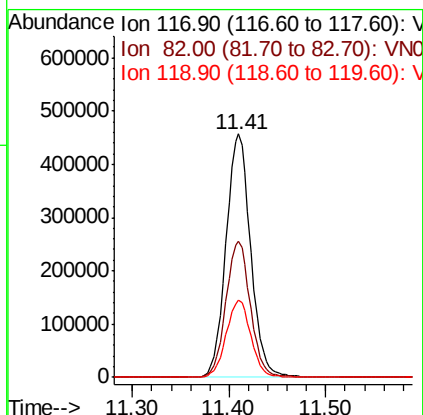
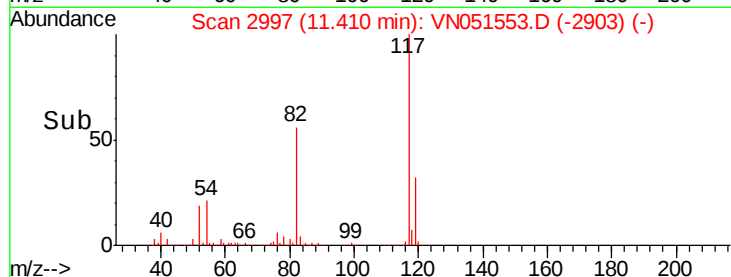
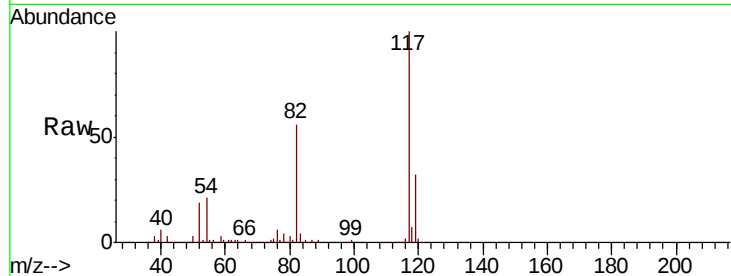




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051553.D
Acq: 26 Sep 2018 22:51

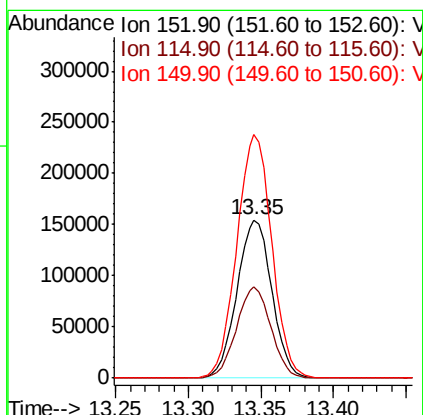
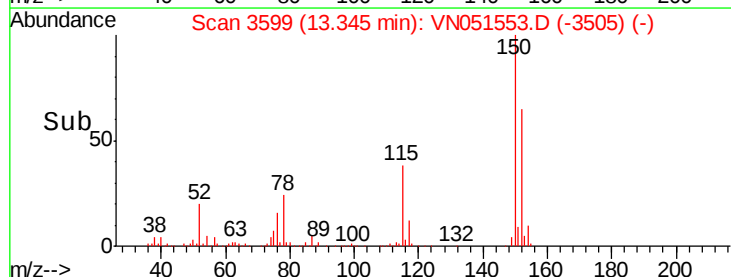
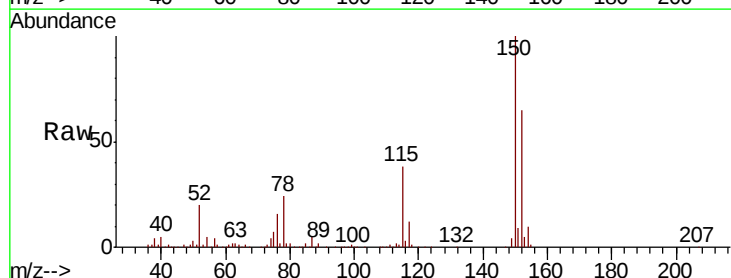
Instrument :
MSVOA_N
ClientSampleId :
PB113219ZHE#10

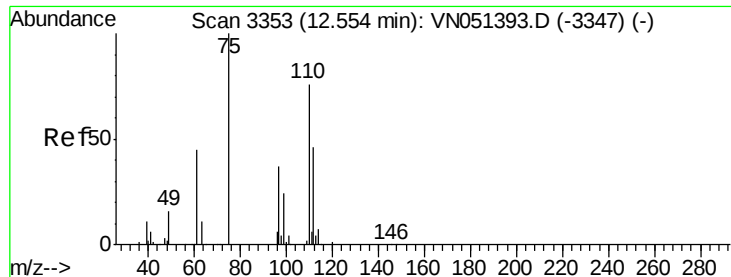
Tot Ion:117 Resp: 805999
Ion Ratio Lower Upper
117 100
82 55.9 44.2 66.2
119 31.7 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051553.D
Acq: 26 Sep 2018 22:51

Tgt Ion:152 Resp: 257785
Ion Ratio Lower Upper
152 100
115 57.2 28.3 84.9
150 154.5 0.0 353.6





#76

1,2,3-Trichloropropane

Concen: 38.883 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051553.D

Acq: 26 Sep 2018 22:51

Instrument :

MSVOA_N

ClientSampleId :

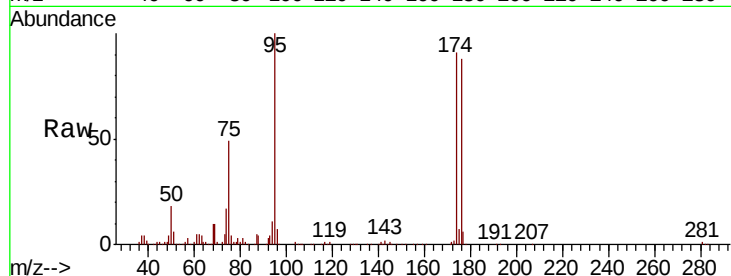
PB113219ZHE#10

Tot Ion: 75 Resp: 166397

Ion Ratio Lower Upper

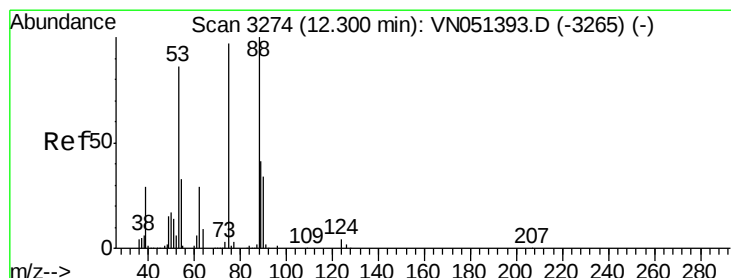
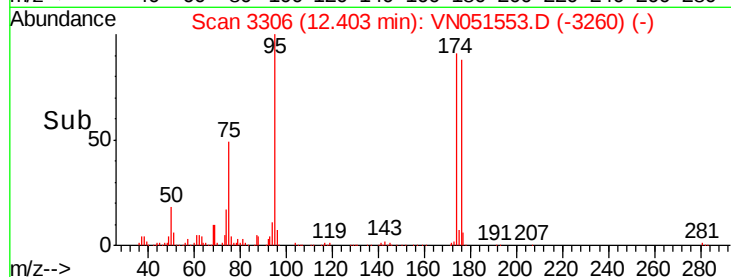
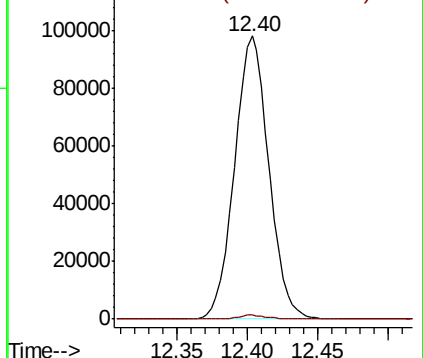
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 119.563 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051553.D

Acq: 26 Sep 2018 22:51

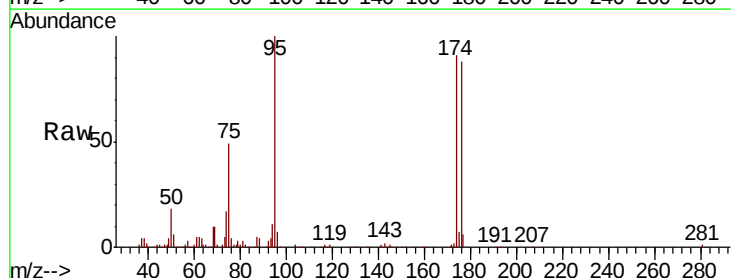
Tgt Ion: 75 Resp: 166397

Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

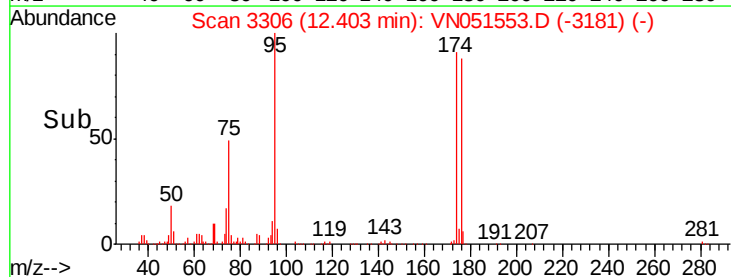
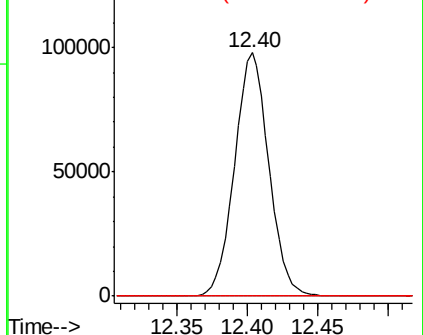
89 0.0 36.7 55.1#

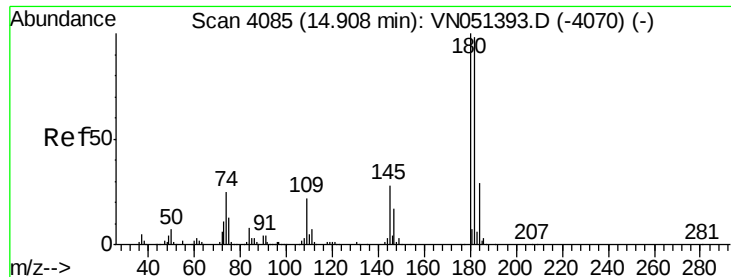


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

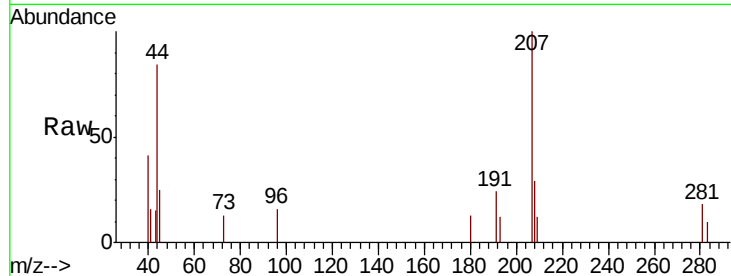




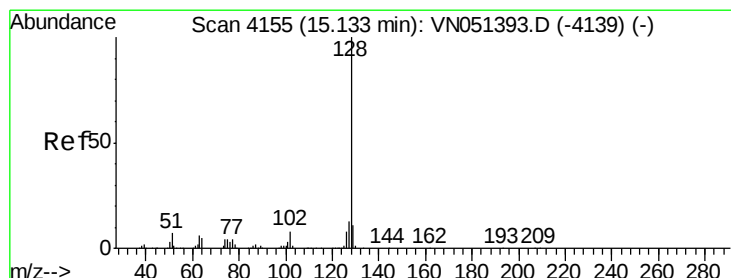
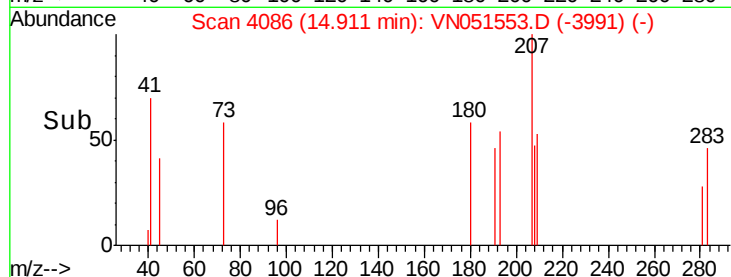
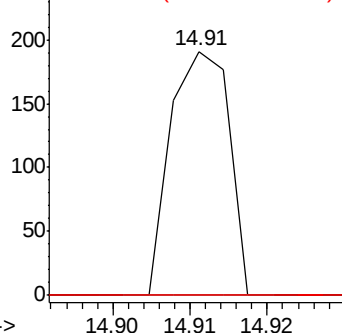
#93
 1,2,4-Trichlorobenzene
 Concen: 6.000 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051553.D
 Acq: 26 Sep 2018 22:51

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113219ZHE#10

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.5	145.6#
145	0.0	14.1	42.4#

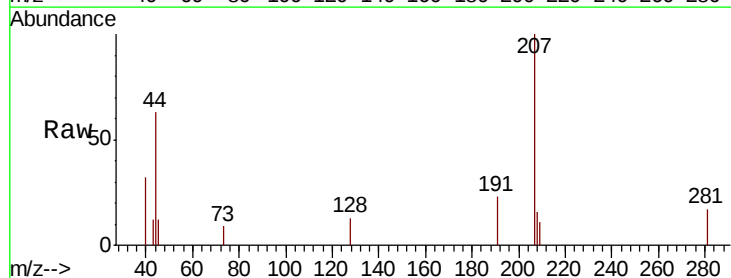


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 8.066 ug/l
 RT: 15.14 min Scan# 4157
 Delta R.T. 0.01 min
 Lab File: VN051553.D
 Acq: 26 Sep 2018 22:51

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	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

