

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051597.D
 Acq On : 27 Sep 2018 21:22
 Operator : MD\SY
 Sample : J5081-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 62 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2-D

Quant Time: Sep 28 01:54:17 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	621139	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1041511	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	857843	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	307323	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	459688	59.08	ug/l	0.00
Spiked Amount			Recovery	=	118.16%	
35) Dibromofluoromethane	7.59	113	399384	47.95	ug/l	0.00
Spiked Amount			Recovery	=	95.90%	
50) Toluene-d8	10.09	98	1427157	45.51	ug/l	0.00
Spiked Amount			Recovery	=	91.02%	
62) 4-Bromofluorobenzene	12.40	95	386183	38.06	ug/l	0.00
Spiked Amount			Recovery	=	76.12%	

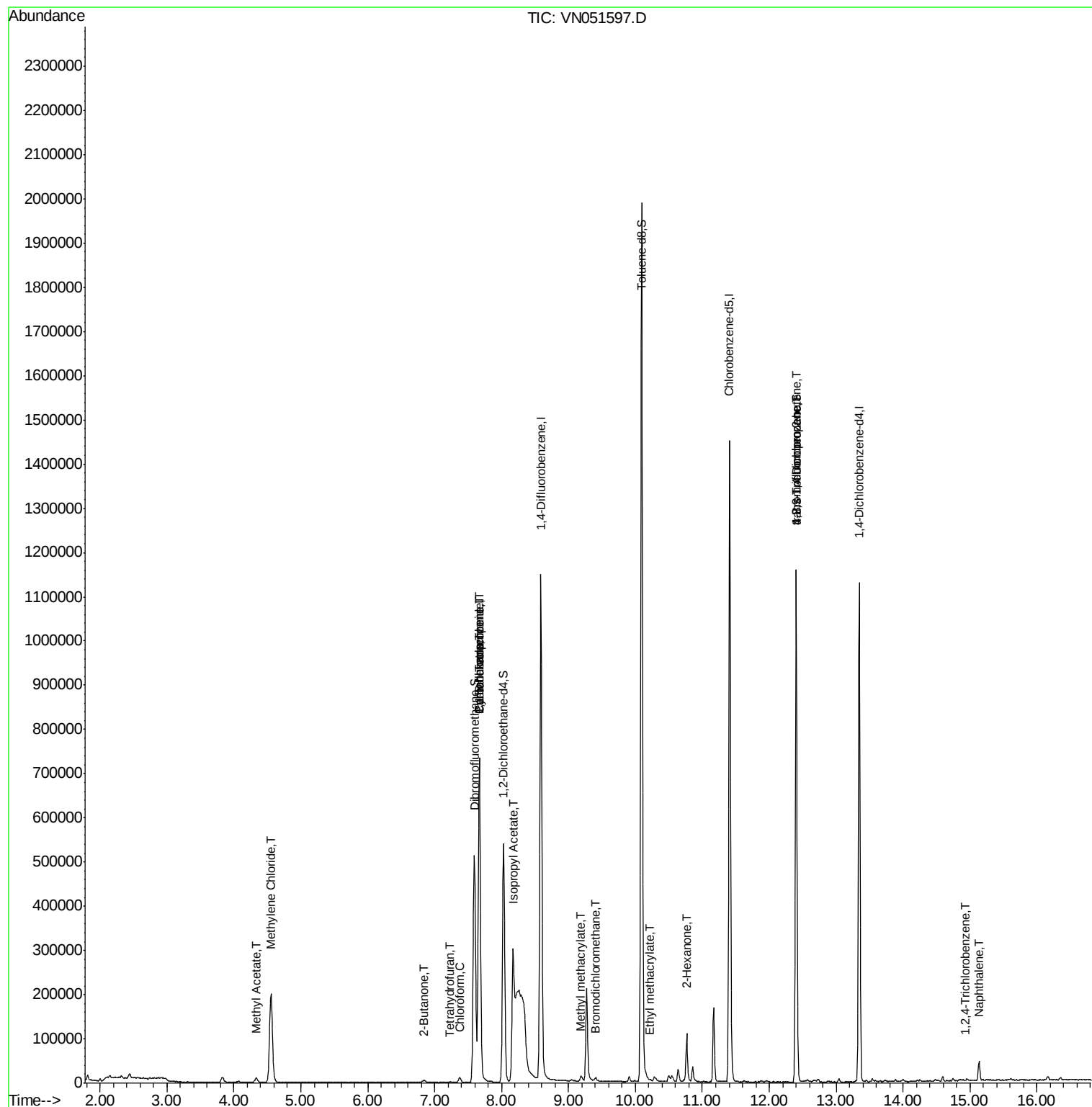
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.83	43	20686	Below Cal		95
18) Methyl Acetate	4.33	43	19389	3.272	ug/l	96
20) Methylene Chloride	4.55	84	150414	19.535	ug/l	98
25) 2-Butanone	6.85	43	4569	1.716	ug/l	91
29) Tetrahydrofuran	7.21	42	707	0.419	ug/l #	42
30) Chloroform	7.37	83	11458	0.865	ug/l	99
31) Cyclohexane	7.67	56	11097	0.906	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44970	3.729	ug/l #	49
38) Carbon Tetrachloride	7.67	117	56223	4.457	ug/l #	16
43) Isopropyl Acetate	8.17	43	387758	30.923	ug/l #	85
47) Bromodichloromethane	9.40	83	4154	0.345	ug/l #	94
48) Methyl methacrylate	9.18	41	7321	1.171	ug/l #	22
56) Ethyl methacrylate	10.22	69	2010	0.211	ug/l #	69
59) 2-Hexanone	10.77	43	15799	3.534	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	188275	36.904	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	188275	113.477	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.92	180	199	6.011	ug/l #	11
95) Naphthalene	15.14	128	37156	10.773	ug/l	98

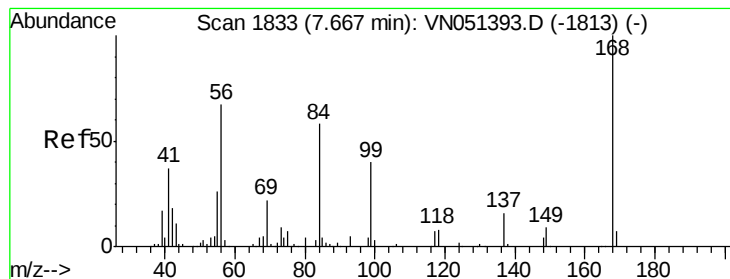
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051597.D

Acq: 27 Sep 2018 21:22

Instrument :

MSVOA_N

ClientSampleId :

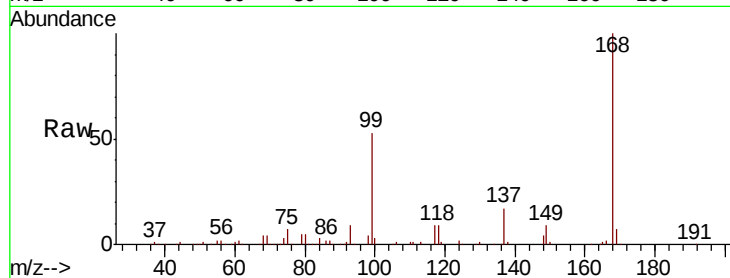
TP-2-D

Tot Ion:168 Resp: 621139

Ion Ratio Lower Upper

168 100

99 53.3 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

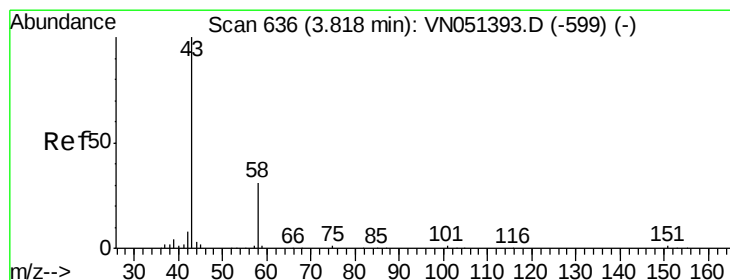
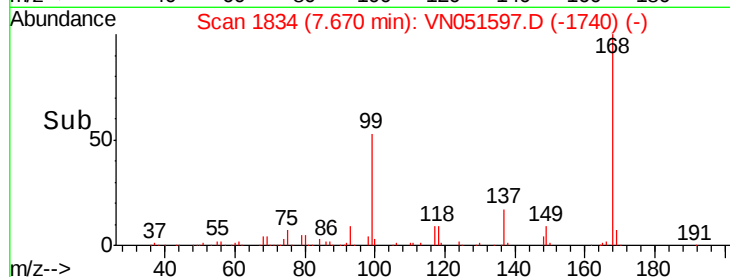
150000

100000

50000

0

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051597.D

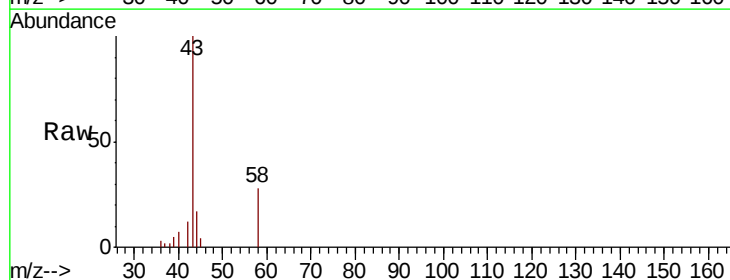
Acq: 27 Sep 2018 21:22

Tgt Ion: 43 Resp: 20686

Ion Ratio Lower Upper

43 100

58 28.2 25.0 37.4



Abundance Ion 43.00 (42.70 to 43.70): VN051393.D (-599) (-)

Ion 58.00 (57.70 to 58.70): VN051393.D (-599) (-)

3.83

8000

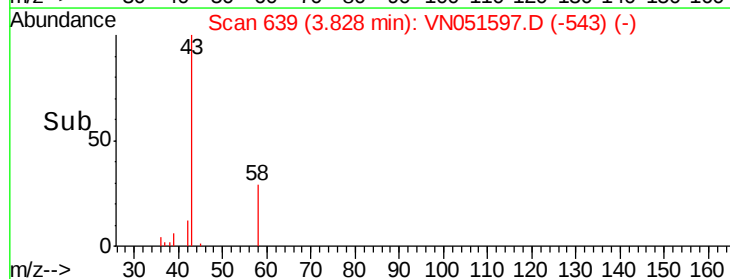
6000

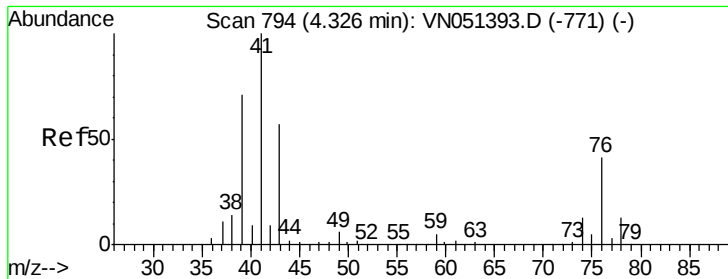
4000

2000

0

Time-->

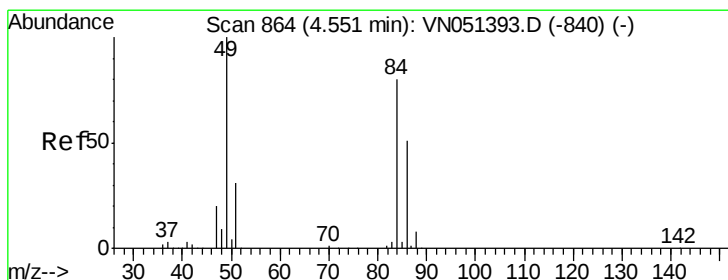
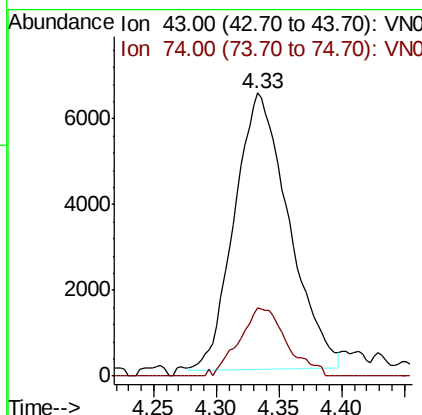
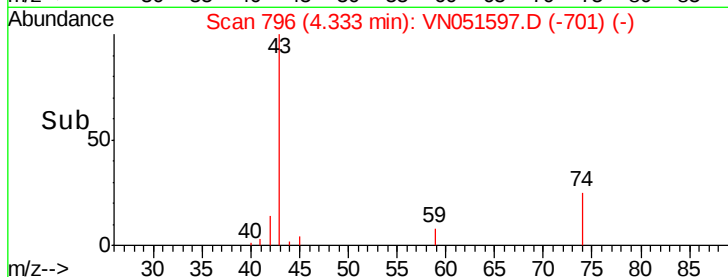
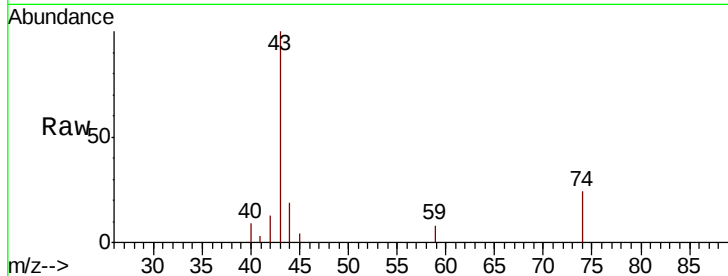




#18
Methyl Acetate
Concen: 3.272 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051597.D
Acq: 27 Sep 2018 21:22

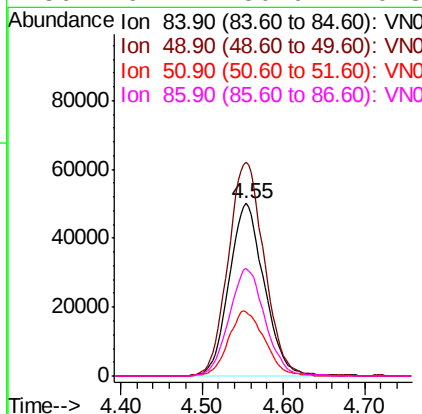
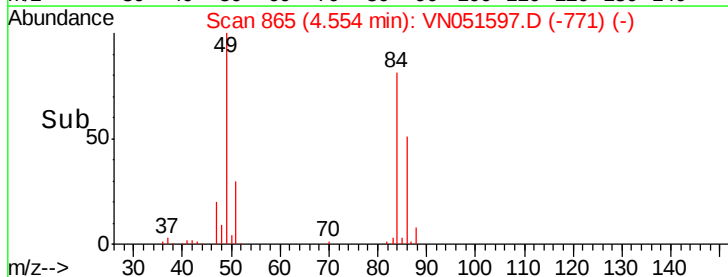
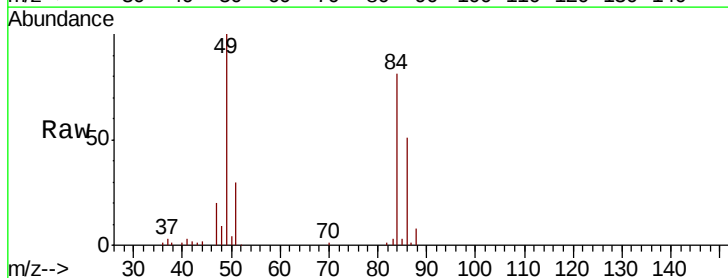
Instrument :
MSVOA_N
ClientSampled :
TP-2-D

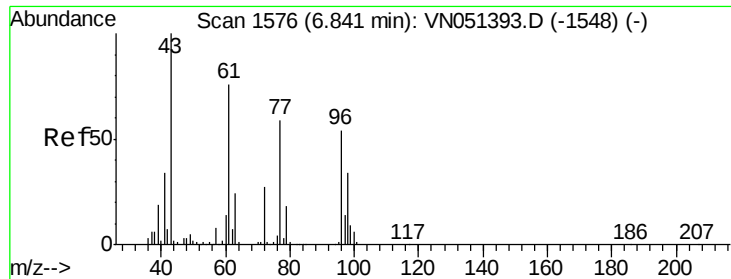
Tot Ion: 43 Resp: 19389
Ion Ratio Lower Upper
43 100
74 21.5 18.8 28.2



#20
Methylene Chloride
Concen: 19.535 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051597.D
Acq: 27 Sep 2018 21:22

Tgt Ion: 84 Resp: 150414
Ion Ratio Lower Upper
84 100
49 123.6 99.9 149.9
51 37.2 31.4 47.2
86 62.7 50.9 76.3

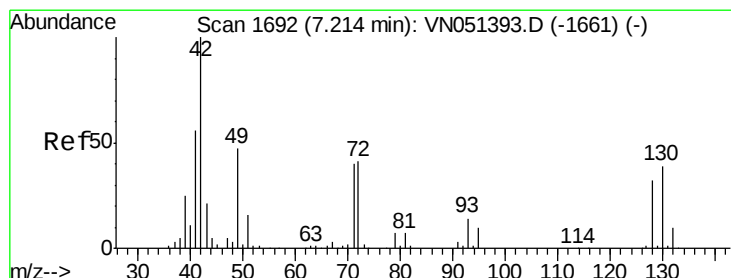
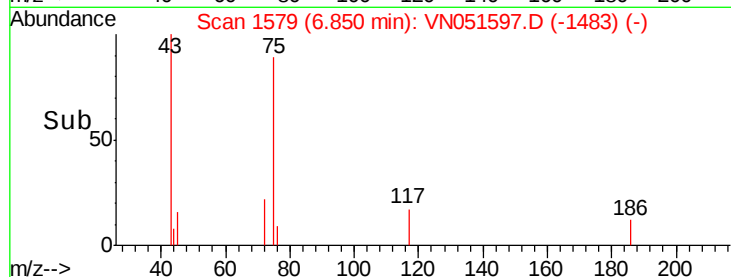
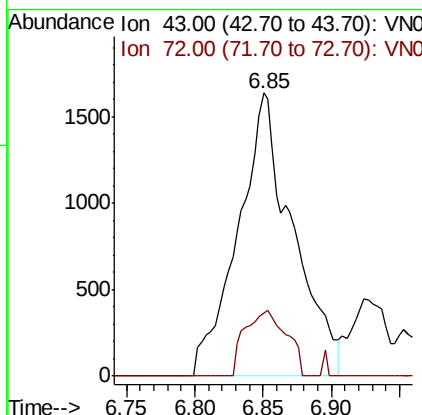
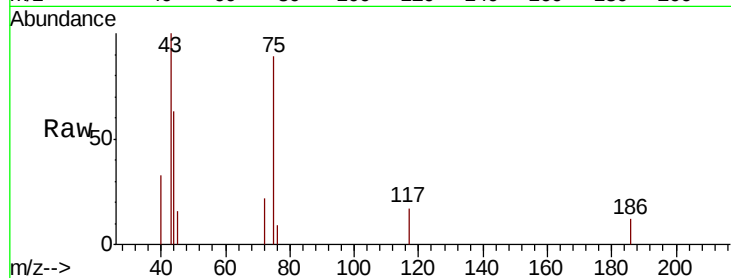




#25
2-Butanone
Concen: 1.716 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051597.D
Acq: 27 Sep 2018 21:22

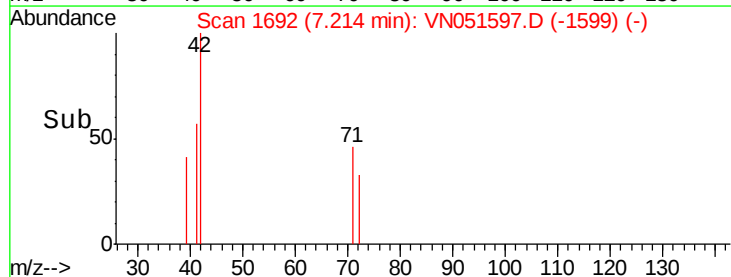
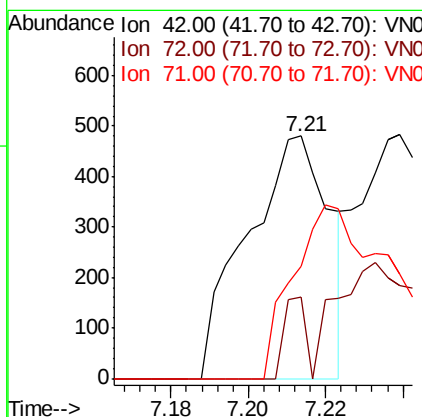
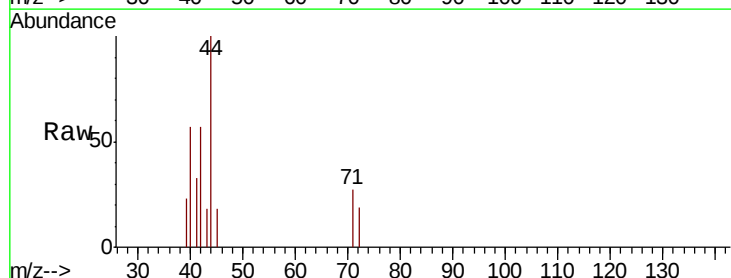
Instrument :
MSVOA_N
ClientSampled :
TP-2-D

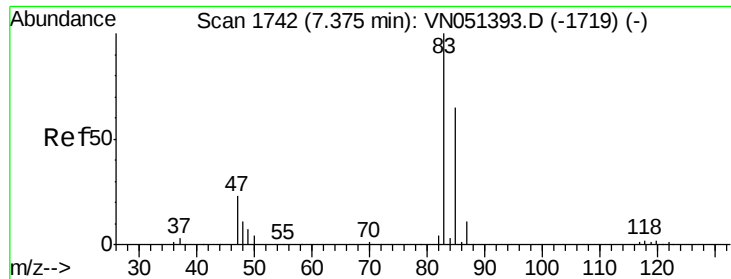
Tot Ion: 43 Resp: 4569
Ion Ratio Lower Upper
43 100
72 22.3 21.8 32.6



#29
Tetrahydrofuran
Concen: 0.419 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VN051597.D
Acq: 27 Sep 2018 21:22

Tgt Ion: 42 Resp: 707
Ion Ratio Lower Upper
42 100
72 8.6 34.3 51.5#
71 79.3 32.2 48.4#

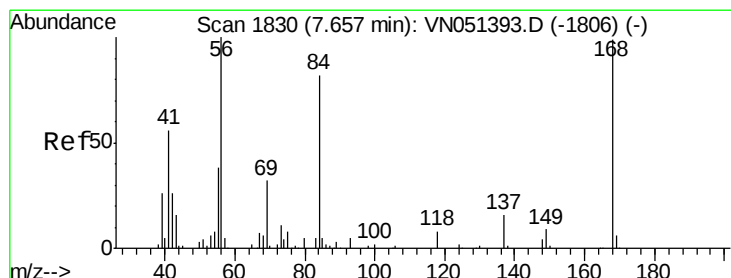
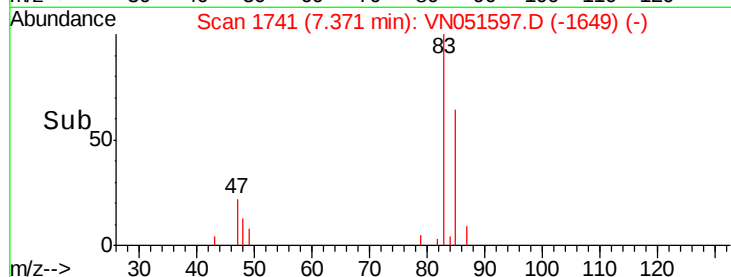
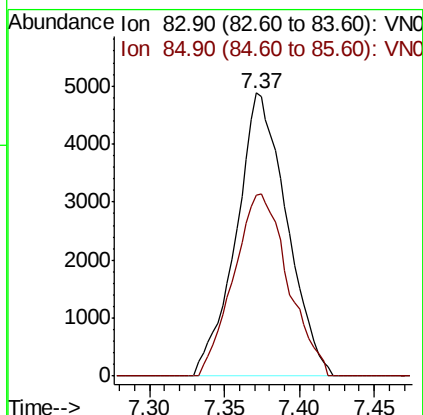
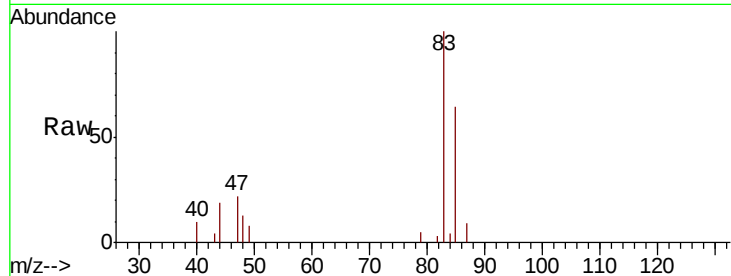




#30
Chloroform
Concen: 0.865 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VN051597.D
Acq: 27 Sep 2018 21:22

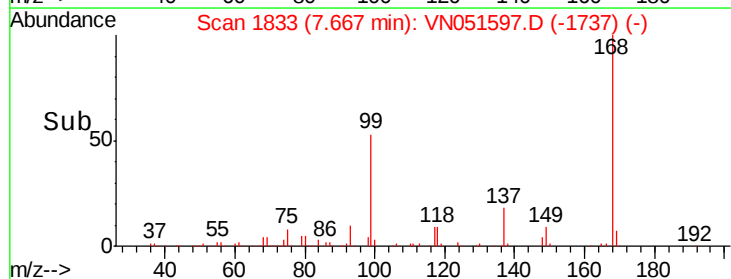
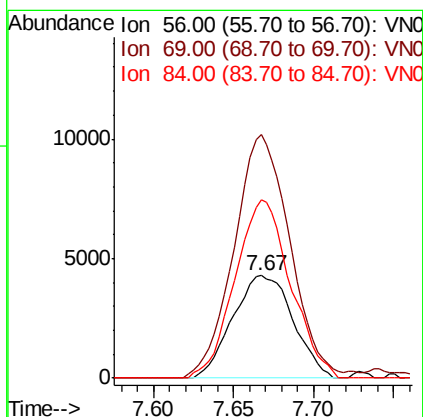
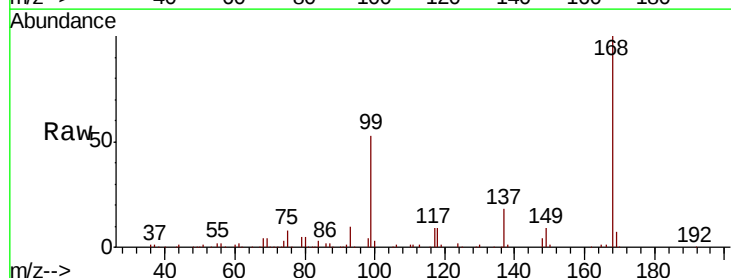
Instrument :
MSVOA_N
ClientSampled :
TP-2-D

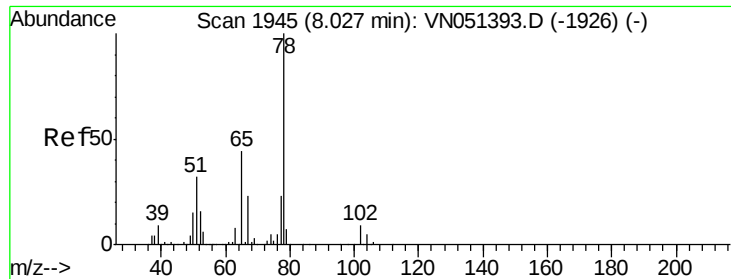
Tot Ion: 83 Resp: 11458
Ion Ratio Lower Upper
83 100
85 63.9 51.8 77.6



#31
Cyclohexane
Concen: 0.906 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051597.D
Acq: 27 Sep 2018 21:22

Tgt Ion: 56 Resp: 11097
Ion Ratio Lower Upper
56 100
69 233.1 25.8 38.6#
84 174.2 66.0 99.0#





#33

1,2-Dichloroethane-d4

Concen: 59.079 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051597.D

Acq: 27 Sep 2018 21:22

Instrument :

MSVOA_N

ClientSampled :

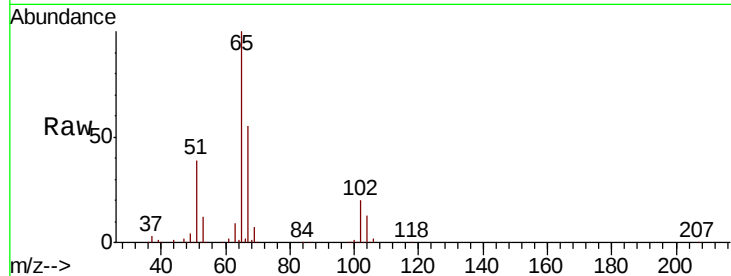
TP-2-D

Tot Ion: 65 Resp: 459688

Ion Ratio Lower Upper

65 100

67 53.6 0.0 107.8



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

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

8.03

200000

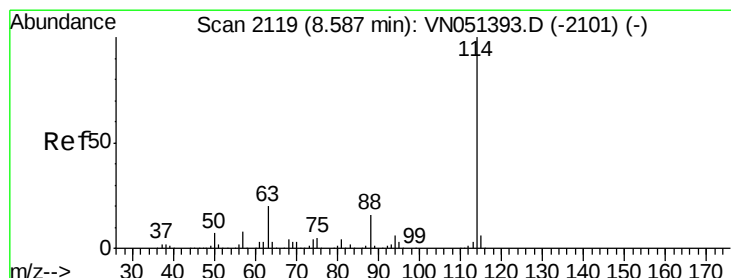
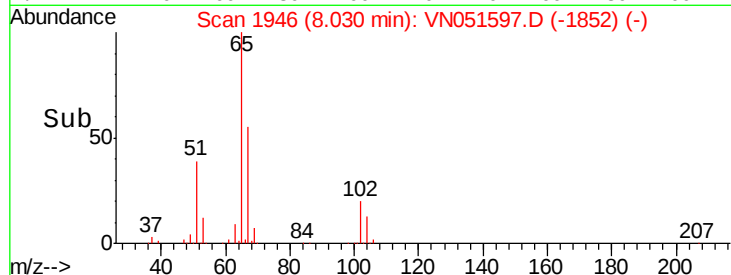
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051597.D

Acq: 27 Sep 2018 21:22

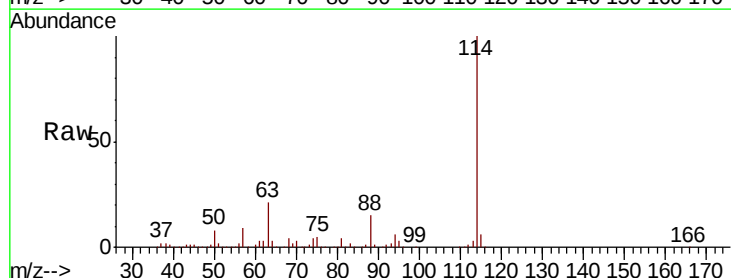
Tgt Ion: 114 Resp: 1041511

Ion Ratio Lower Upper

114 100

63 20.6 0.0 40.2

88 15.3 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN051393.D (-2101) (-)

Ion 63.00 (62.70 to 63.70): VN051393.D (-2101) (-)

Ion 87.90 (87.60 to 88.60): VN051393.D (-2101) (-)

8.59

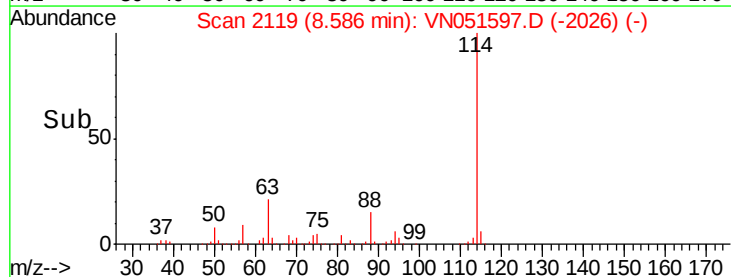
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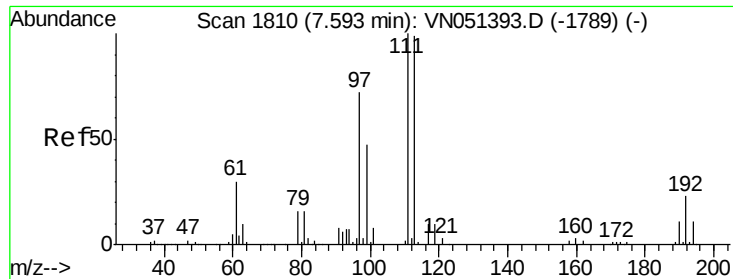
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200000

0

Time-->

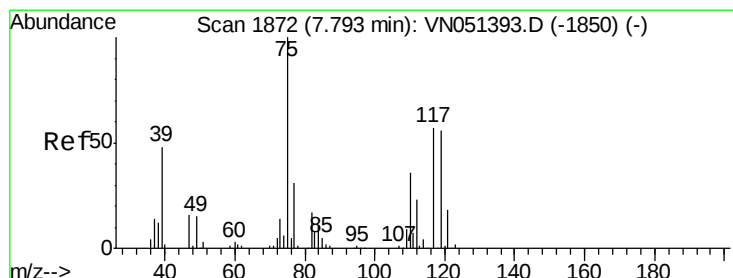
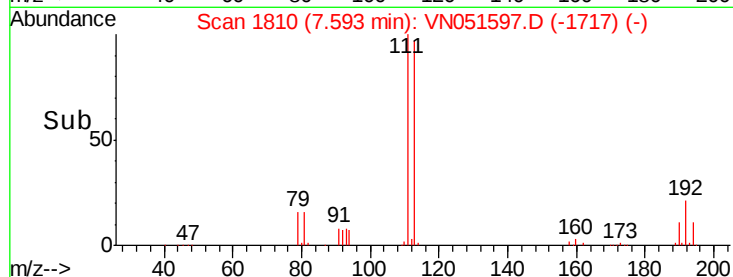
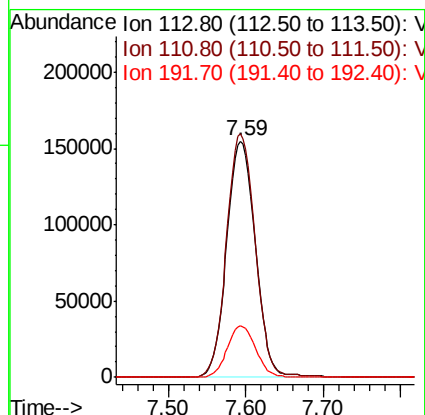
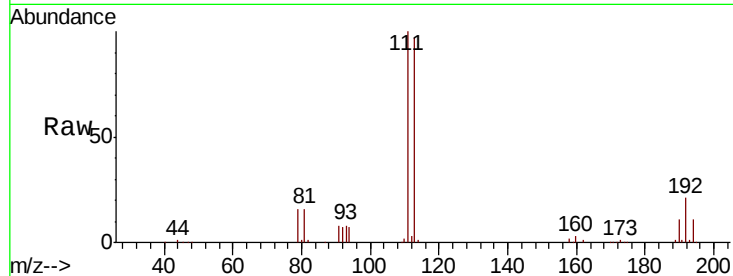




#35
 Dibromofluoromethane
 Concen: 47.954 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN051597.D
 Acq: 27 Sep 2018 21:22

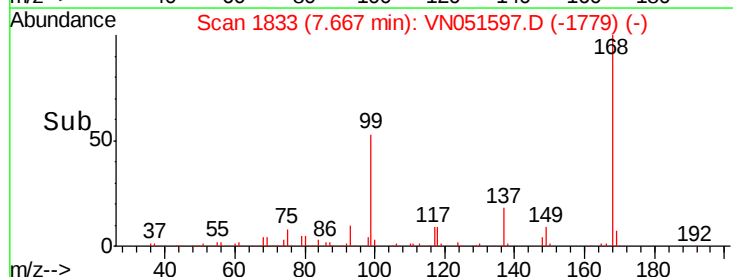
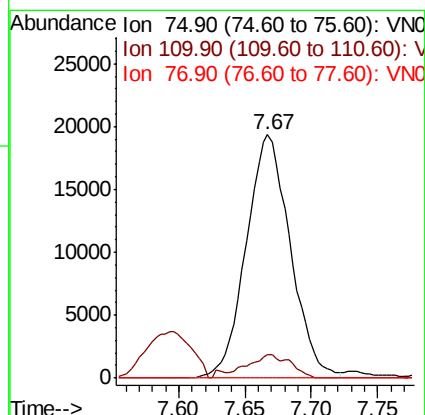
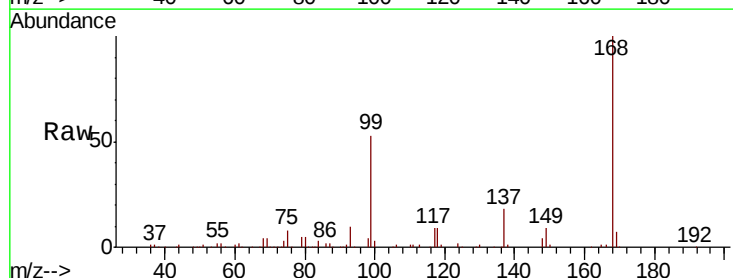
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-2-D

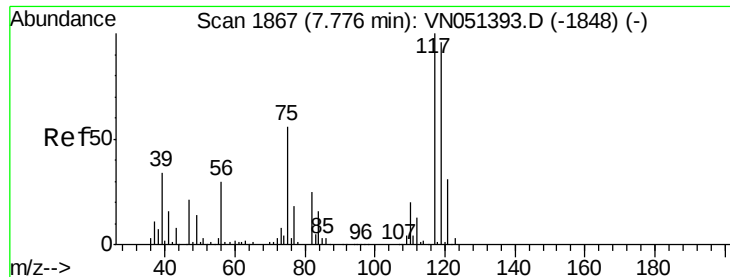
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.6	123.8
192	21.7	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.729 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051597.D
 Acq: 27 Sep 2018 21:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.3	18.1	54.3#
77	0.0	25.6	38.4#





#38

Carbon Tetrachloride

Concen: 4.457 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051597.D

Acq: 27 Sep 2018 21:22

Instrument :

MSVOA_N

ClientSampled :

TP-2-D

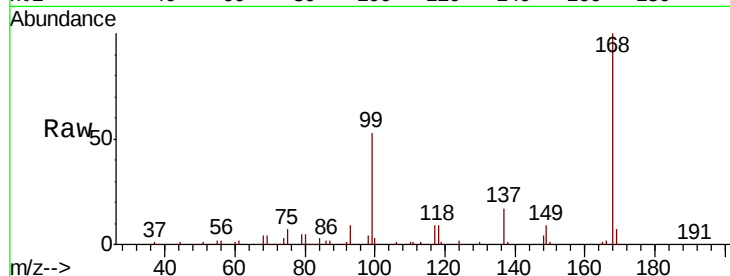
Tot Ion:117 Resp: 56223

Ion Ratio Lower Upper

117 100

119 5.9 76.9 115.3#

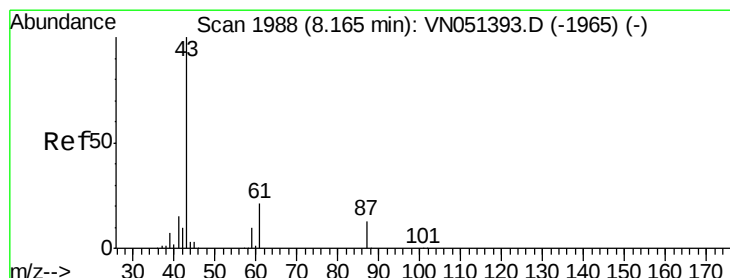
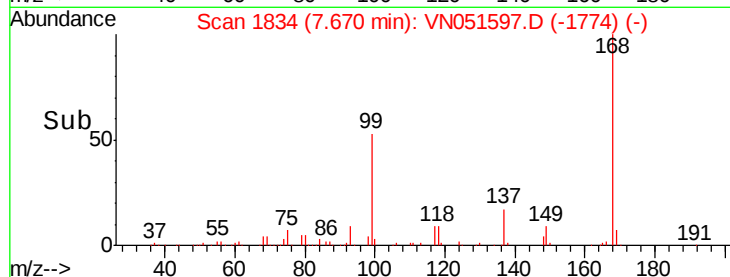
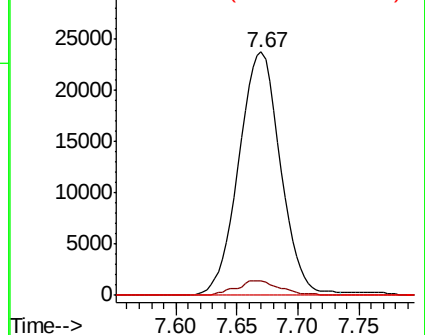
121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 30.923 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN051597.D

Acq: 27 Sep 2018 21:22

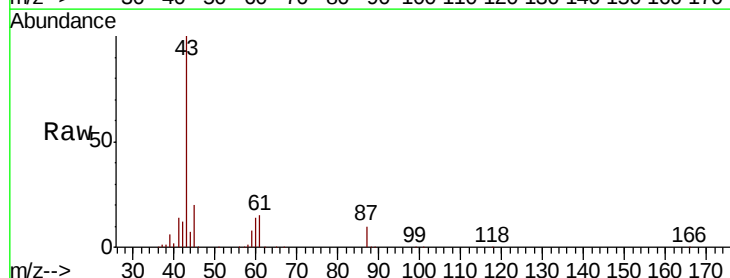
Tgt Ion: 43 Resp: 387758

Ion Ratio Lower Upper

43 100

61 13.5 16.8 25.2#

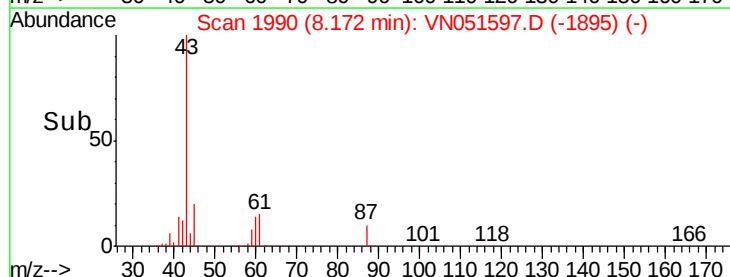
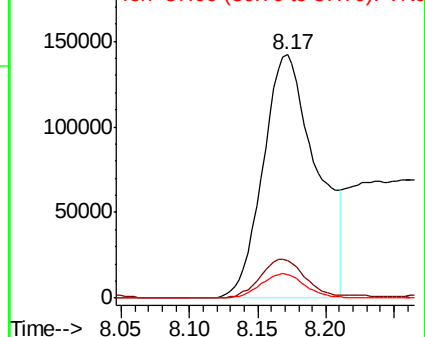
87 8.3 10.7 16.1#

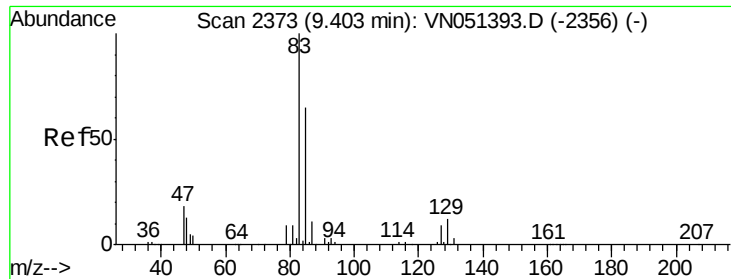


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#47

Bromodichloromethane

Concen: 0.345 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN051597.D

Acq: 27 Sep 2018 21:22

Instrument :

MSVOA_N

ClientSampled :

TP-2-D

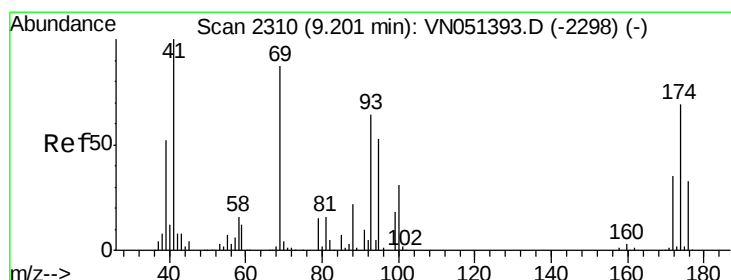
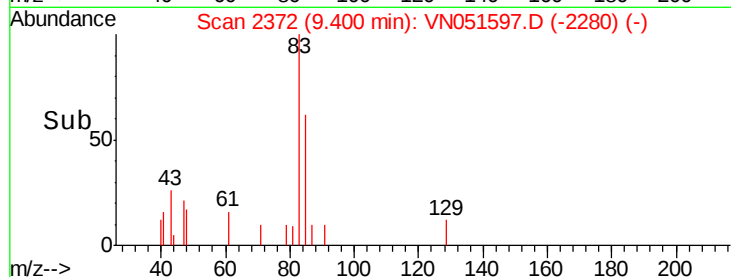
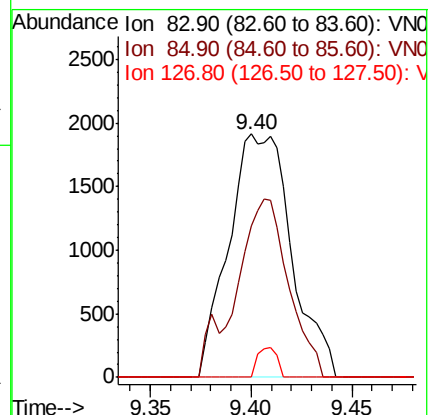
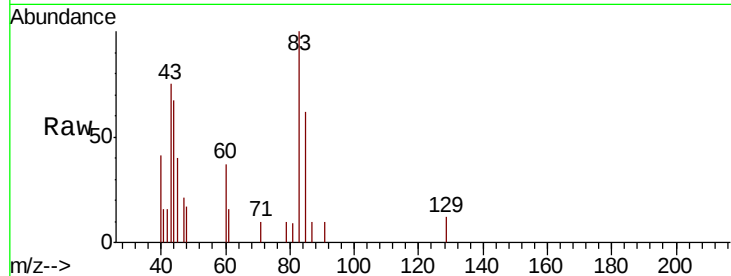
Tot Ion: 83 Resp: 4154

Ion Ratio Lower Upper

83 100

85 62.3 51.8 77.6

127 0.0 7.4 11.2#



#48

Methyl methacrylate

Concen: 1.171 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN051597.D

Acq: 27 Sep 2018 21:22

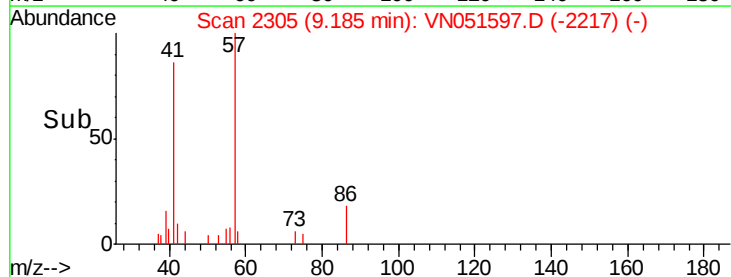
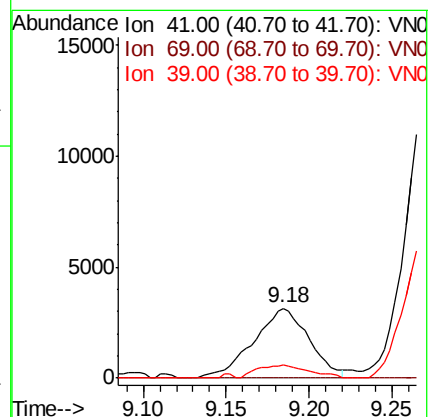
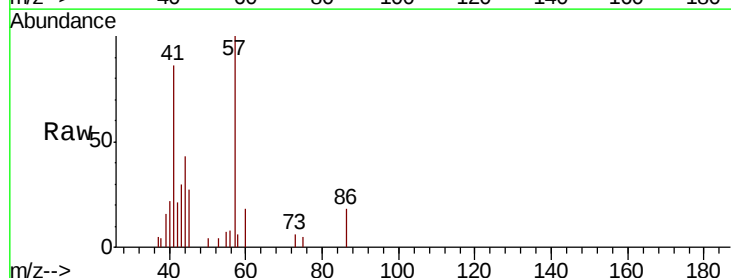
Tgt Ion: 41 Resp: 7321

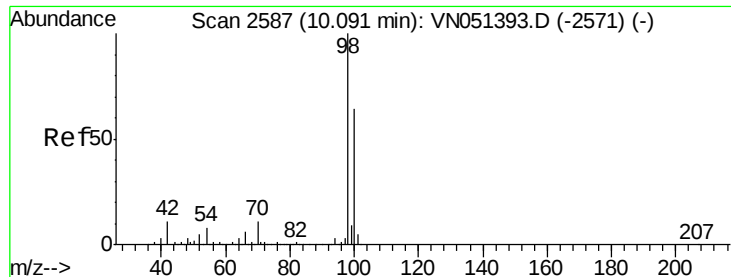
Ion Ratio Lower Upper

41 100

69 0.0 70.4 105.6#

39 17.1 43.8 65.8#

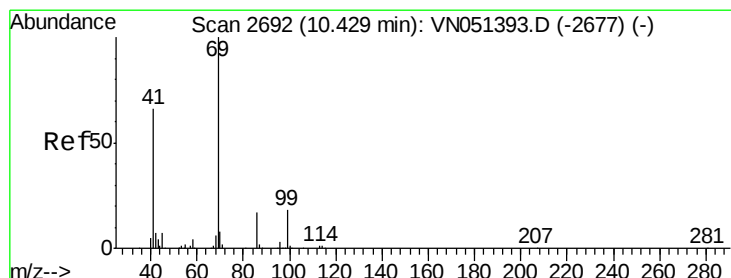
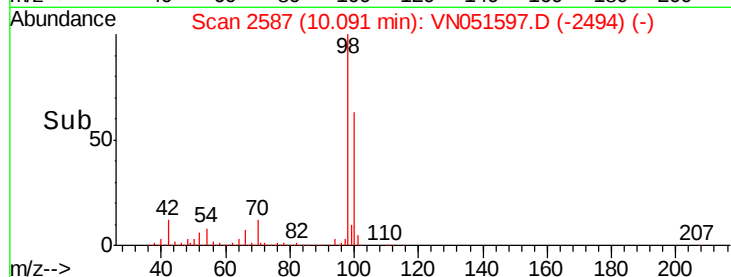
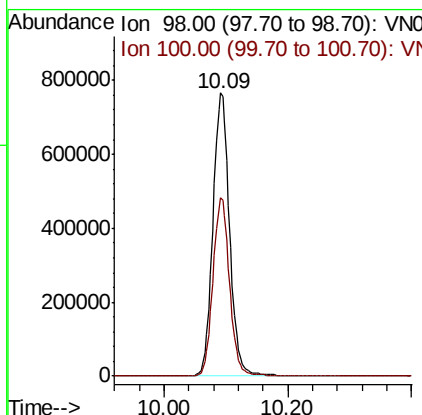
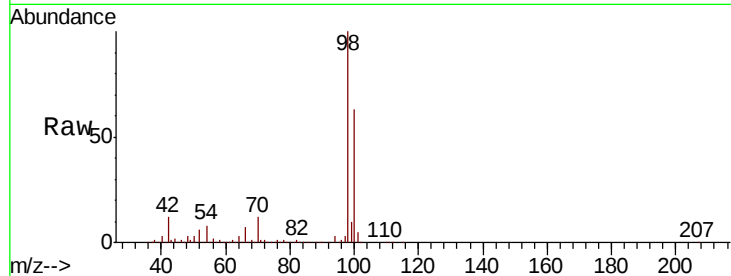




#50
Toluene-d8
Concen: 45.506 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051597.D
Acq: 27 Sep 2018 21:22

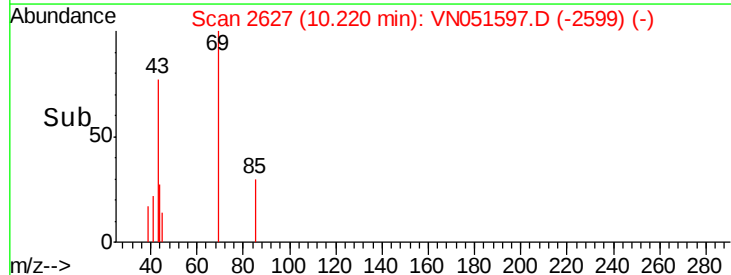
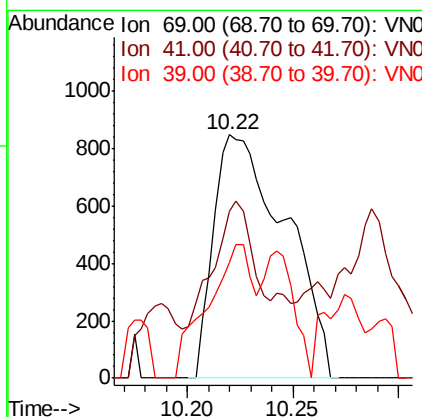
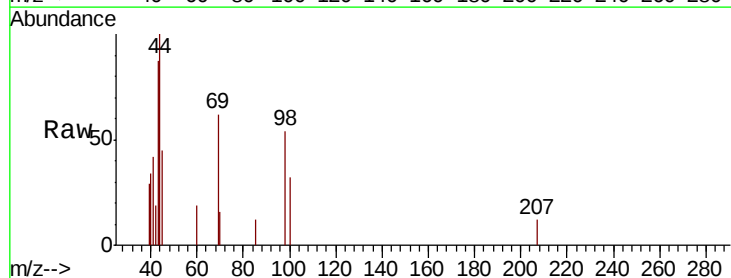
Instrument :
MSVOA_N
ClientSampled :
TP-2-D

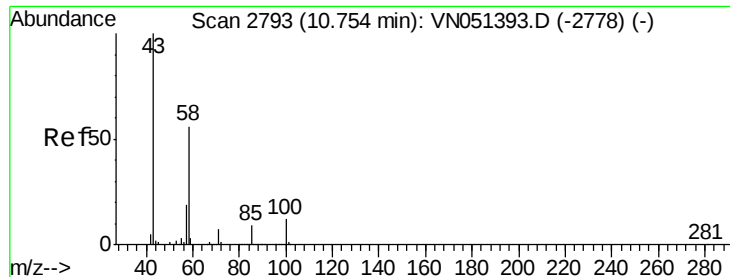
Tot Ion: 98 Resp: 1427157
Ion Ratio Lower Upper
98 100
100 63.0 50.6 75.8



#56
Ethyl methacrylate
Concen: 0.211 ug/l
RT: 10.22 min Scan# 2627
Delta R.T. -0.21 min
Lab File: VN051597.D
Acq: 27 Sep 2018 21:22

Tgt Ion: 69 Resp: 2010
Ion Ratio Lower Upper
69 100
41 29.7 52.4 78.6#
39 34.9 26.3 39.5





#59

2-Hexanone

Concen: 3.534 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN051597.D

Acq: 27 Sep 2018 21:22

Instrument :

MSVOA_N

ClientSampled :

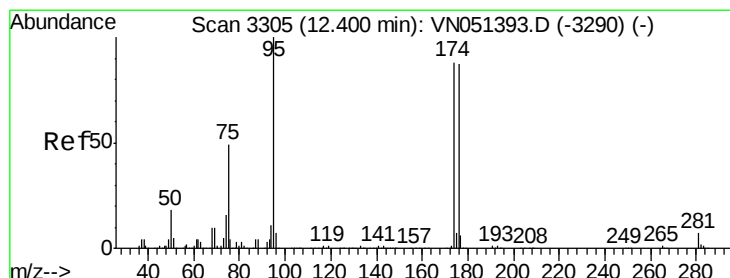
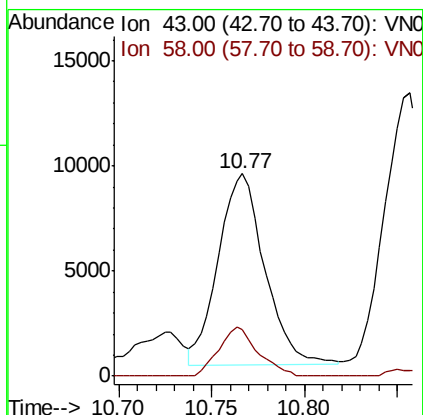
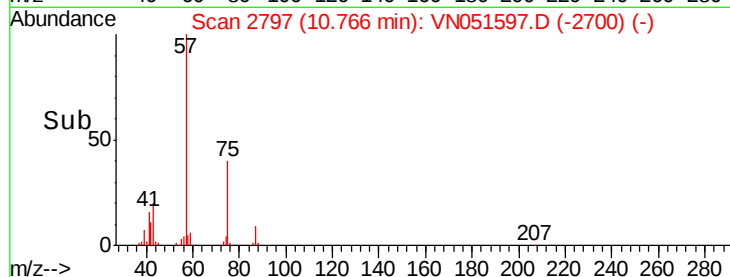
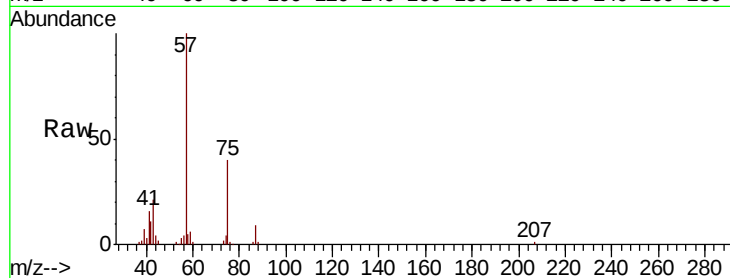
TP-2-D

Tot Ion: 43 Resp: 15799

Ion Ratio Lower Upper

43 100

58 21.5 27.7 83.0#



#62

4-Bromofluorobenzene

Concen: 38.064 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051597.D

Acq: 27 Sep 2018 21:22

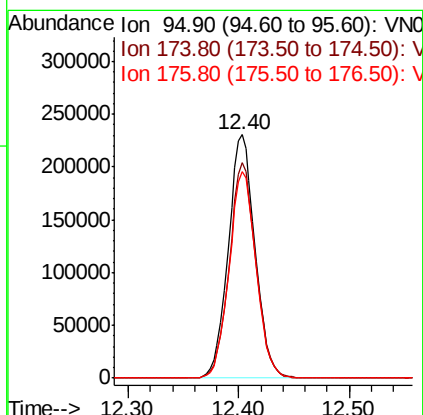
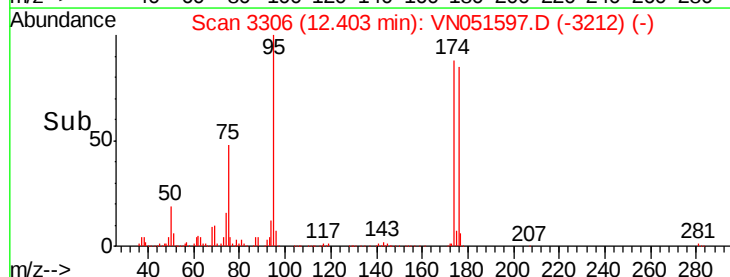
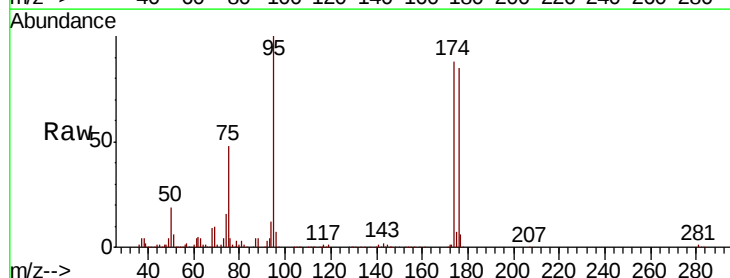
Tgt Ion: 95 Resp: 386183

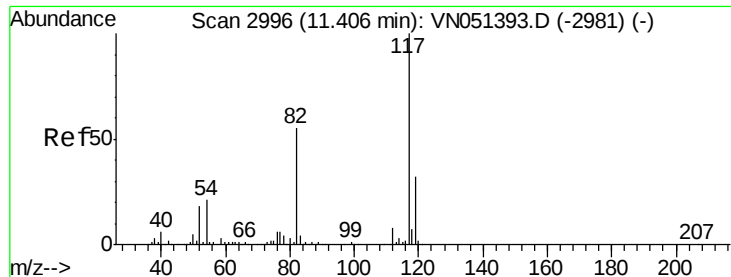
Ion Ratio Lower Upper

95 100

174 88.6 0.0 181.6

176 85.6 0.0 176.4

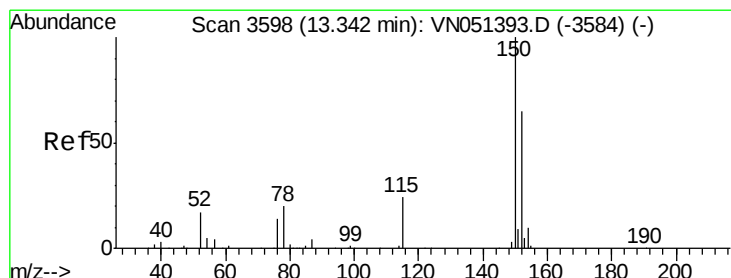
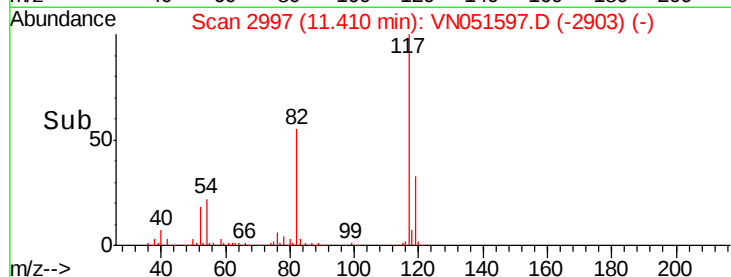
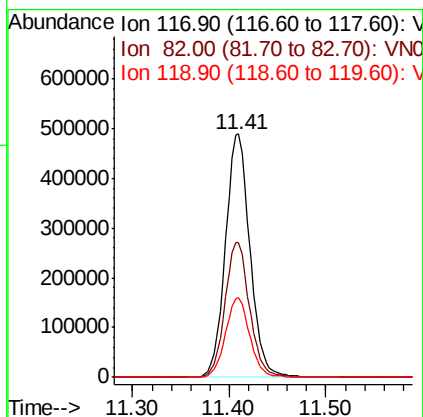
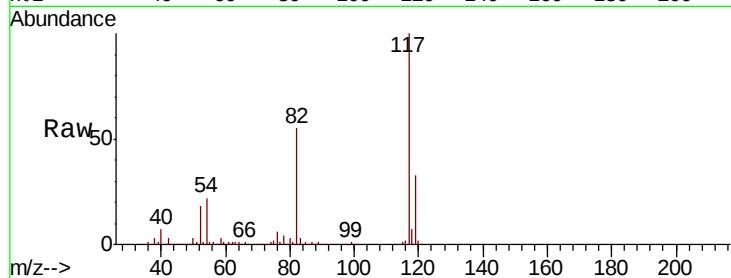




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051597.D
Acq: 27 Sep 2018 21:22

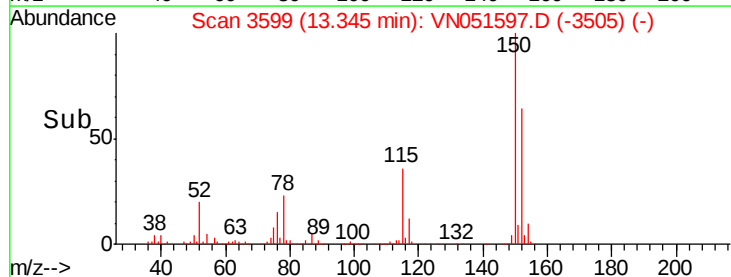
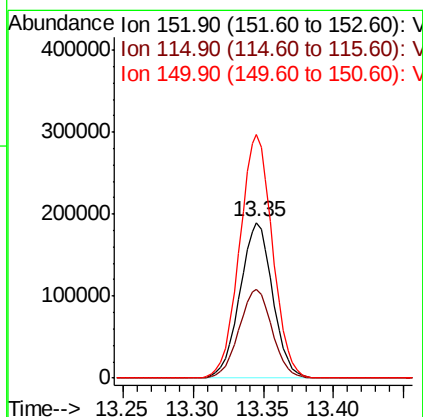
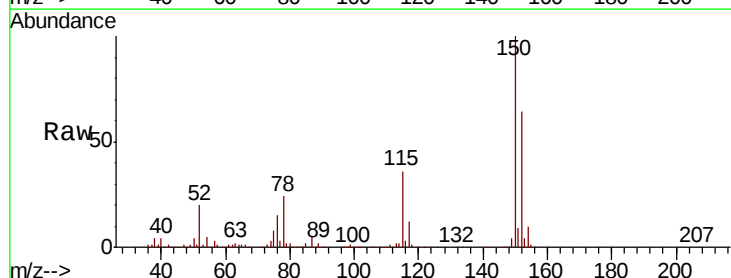
Instrument :
MSVOA_N
ClientSampleId :
TP-2-D

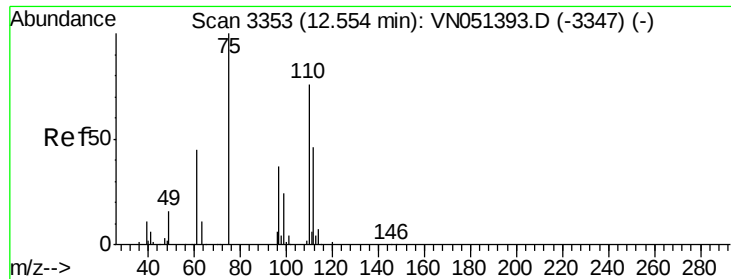
Tot Ion:117 Resp: 857843
Ion Ratio Lower Upper
117 100
82 55.3 44.2 66.2
119 32.5 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051597.D
Acq: 27 Sep 2018 21:22

Tgt Ion:152 Resp: 307323
Ion Ratio Lower Upper
152 100
115 57.9 28.3 84.9
150 157.9 0.0 353.6

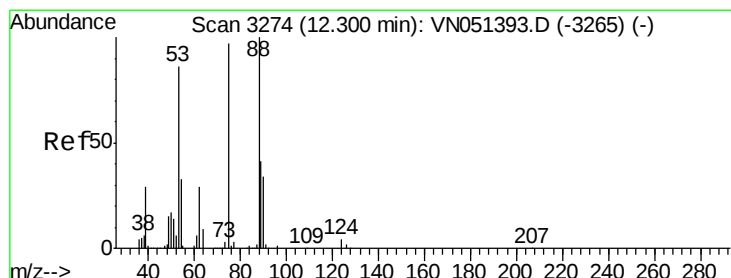
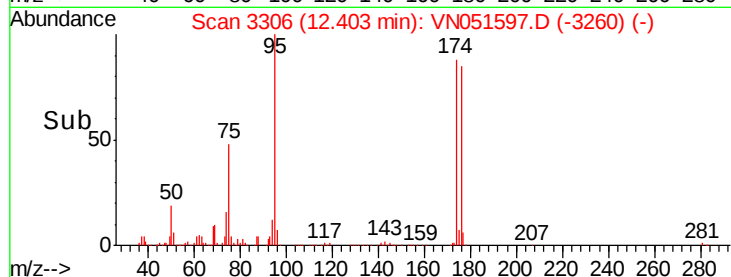
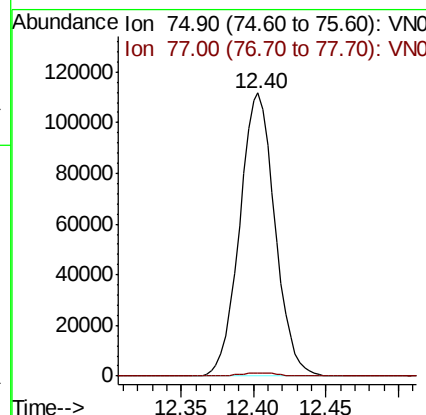
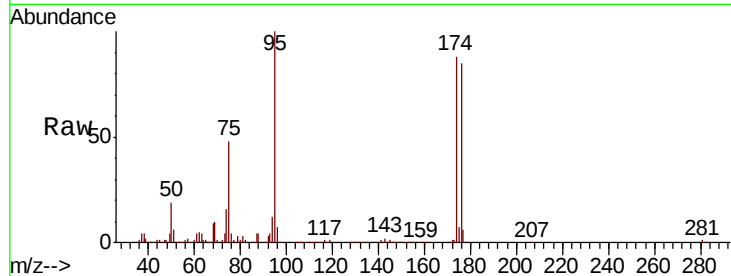




#76
 1,2,3-Trichloropropane
 Concen: 36.904 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN051597.D
 Acq: 27 Sep 2018 21:22

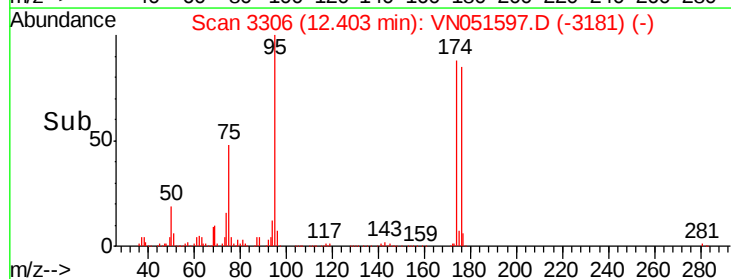
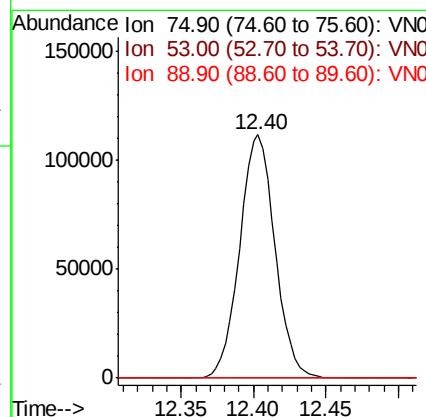
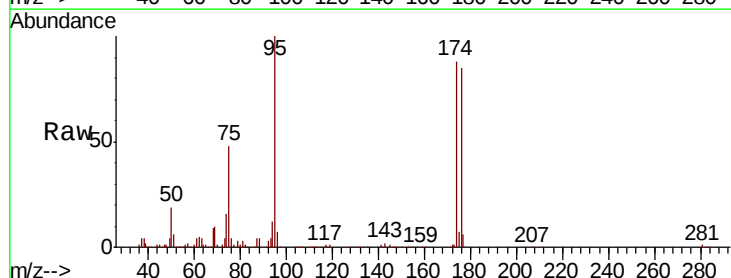
Instrument :
 MSVOA_N
 ClientSampled :
 TP-2-D

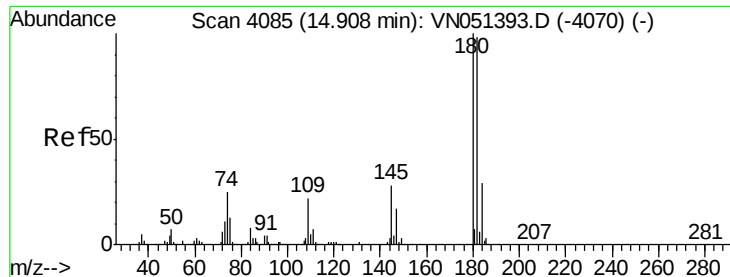
Tot Ion: 75 Resp: 188275
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 113.477 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN051597.D
 Acq: 27 Sep 2018 21:22

Tgt Ion: 75 Resp: 188275
 Ion Ratio Lower Upper
 75 100
 53 0.1 73.9 110.9#
 89 0.0 36.7 55.1#

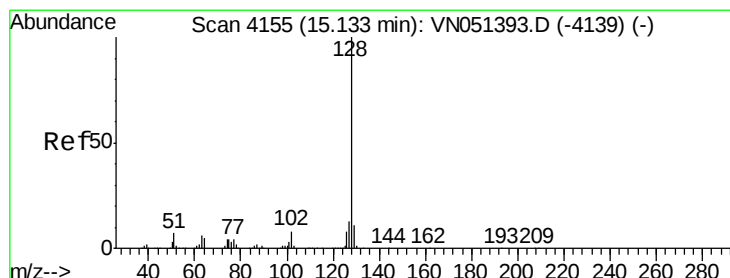
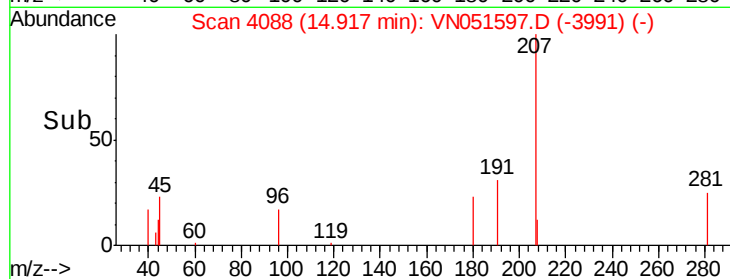
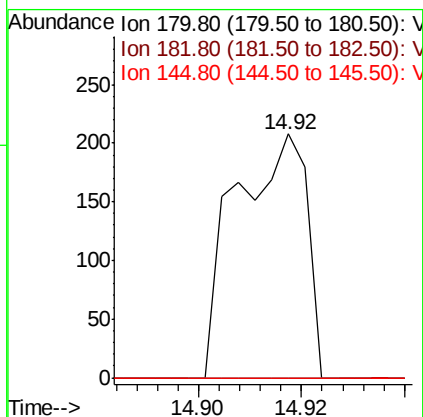
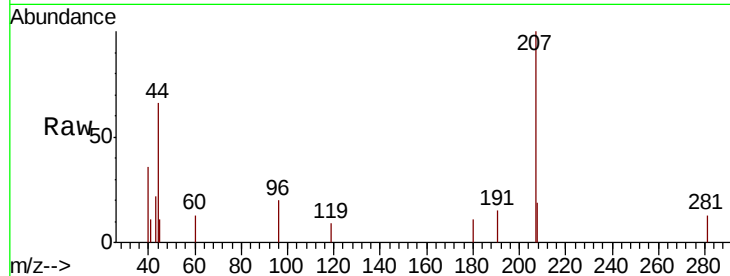




#93
 1,2,4-Trichlorobenzene
 Concen: 6.011 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.01 min
 Lab File: VN051597.D
 Acq: 27 Sep 2018 21:22

Instrument :
 MSVOA_N
 ClientSampled :
 TP-2-D

Tot Ion:180 Resp: 199
 Ion Ratio Lower Upper
 180 100
 182 0.0 48.5 145.6#
 145 0.0 14.1 42.4#



#95
 Naphthalene
 Concen: 10.773 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN051597.D
 Acq: 27 Sep 2018 21:22

Tgt Ion:128 Resp: 37156
 Ion Ratio Lower Upper
 128 100
 127 14.6 10.5 15.7
 129 11.0 8.6 12.8

