

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092018\
 Data File : VN051351.D
 Acq On : 20 Sep 2018 20:09
 Operator : MD\SY
 Sample : PB113045ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113045ZHE#02

Quant Time: Sep 21 06:44:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092018W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 21 03:27:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	799587	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1191135	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1010189	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	406075	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	449511	51.87	ug/l	0.00
Spiked Amount			Recovery	=	103.74%	
35) Dibromofluoromethane	7.59	113	442495	45.97	ug/l	0.00
Spiked Amount			Recovery	=	91.94%	
50) Toluene-d8	10.09	98	1613882	43.61	ug/l	0.00
Spiked Amount			Recovery	=	87.22%	
62) 4-Bromofluorobenzene	12.40	95	453322	37.66	ug/l	0.00
Spiked Amount			Recovery	=	75.32%	

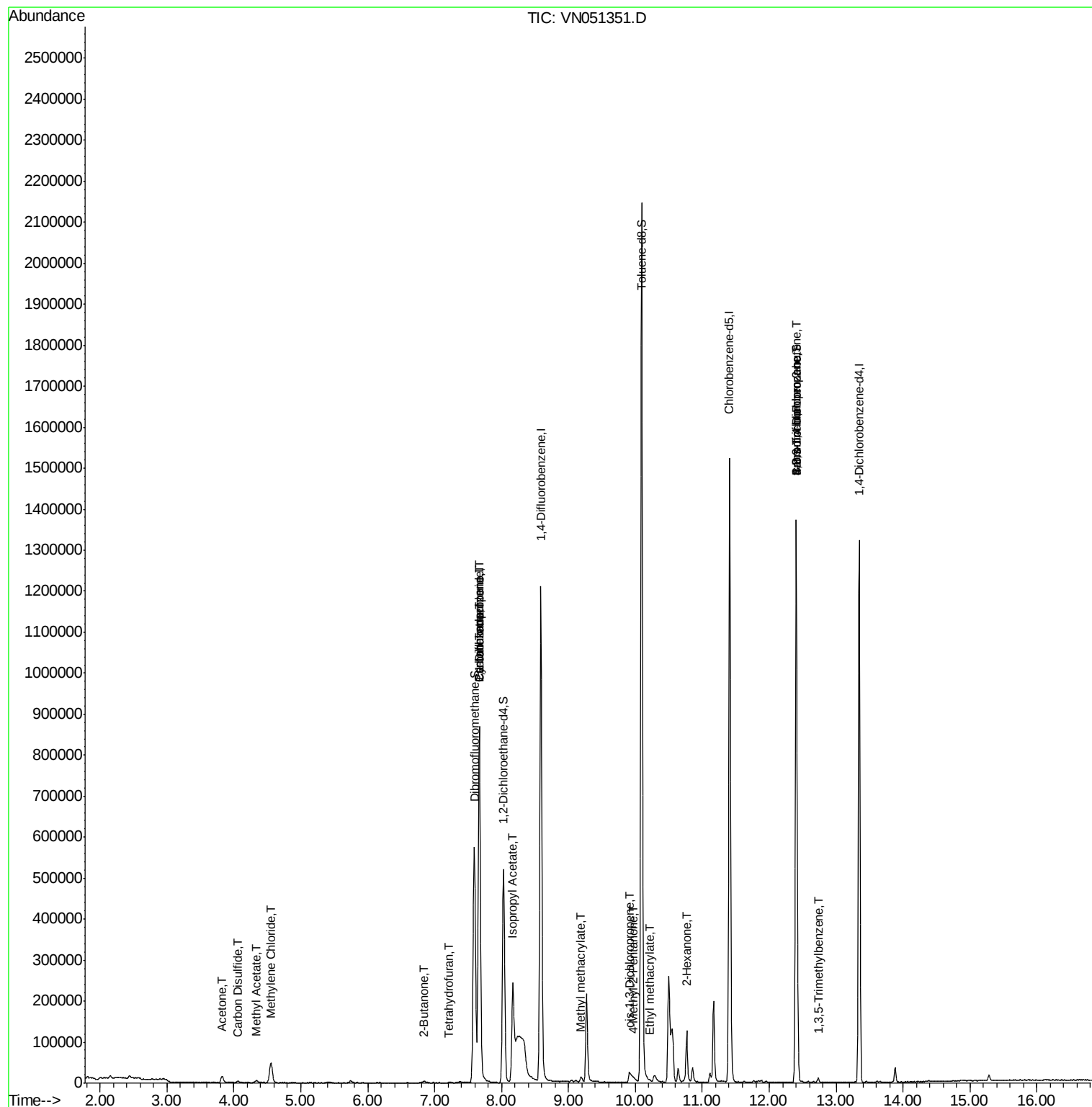
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	28263	15.88	ug/l	94
17) Carbon Disulfide	4.05	76	5233	0.23	ug/l	99
18) Methyl Acetate	4.33	43	10147	1.66	ug/l	93
20) Methylene Chloride	4.55	84	39780	4.47	ug/l	97
25) 2-Butanone	6.84	43	5333	2.15	ug/l #	79
29) Tetrahydrofuran	7.22	42	1205	0.77	ug/l #	61
31) Cyclohexane	7.66	56	11914	0.85	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	46151	3.79	ug/l #	47
38) Carbon Tetrachloride	7.67	117	66354	5.03	ug/l #	16
43) Isopropyl Acetate	8.17	43	298818	28.29	ug/l	93
48) Methyl methacrylate	9.18	41	7108	1.32	ug/l #	15
51) 4-Methyl-2-Pentanone	9.98	43	1144	0.20	ug/l #	5
54) cis-1,3-Dichloropropene	9.91	75	2918	0.21	ug/l #	67
56) Ethyl methacrylate	10.22	69	2428	0.27	ug/l #	68
59) 2-Hexanone	10.76	43	21206	5.54	ug/l #	46
71) Bromoform	12.40	173	1556	0.25	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	204560	34.88	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5236	0.22	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	204560	120.77	ug/l #	14

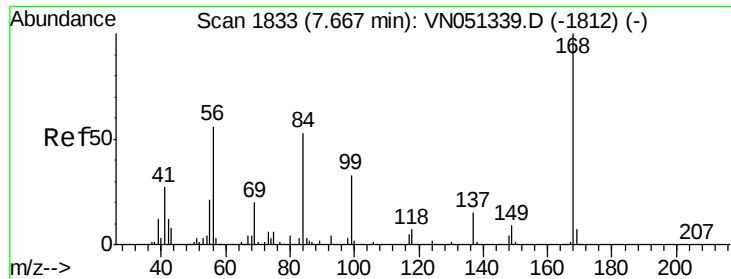
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051351.D

Acq: 20 Sep 2018 20:09

Instrument :

MSVOA_N

ClientSampleId :

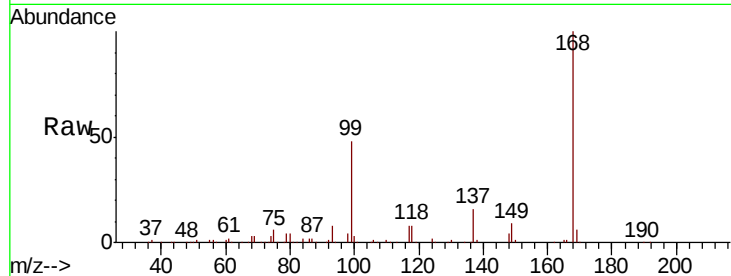
PB113045ZHE#02

Tot Ion:168 Resp: 799587

Ion Ratio Lower Upper

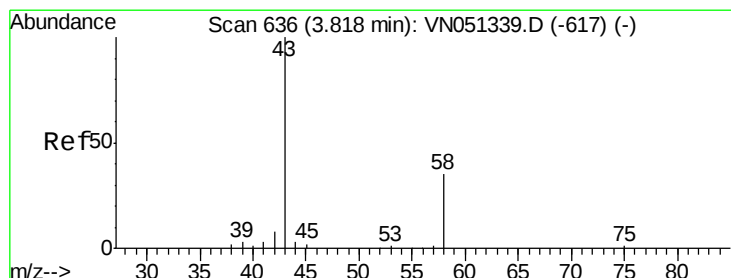
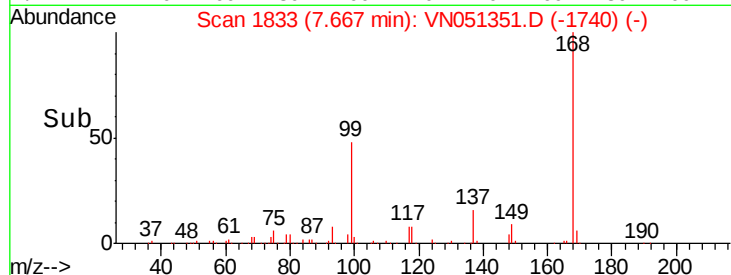
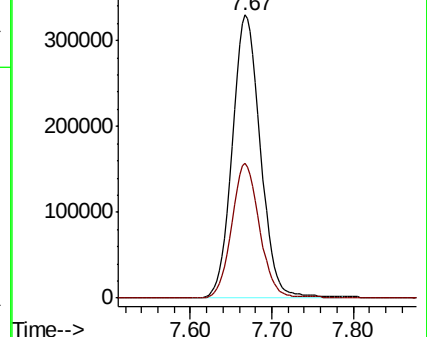
168 100

99 47.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 15.88 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN051351.D

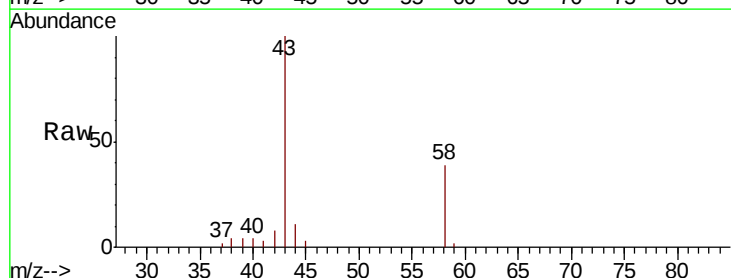
Acq: 20 Sep 2018 20:09

Tgt Ion: 43 Resp: 28263

Ion Ratio Lower Upper

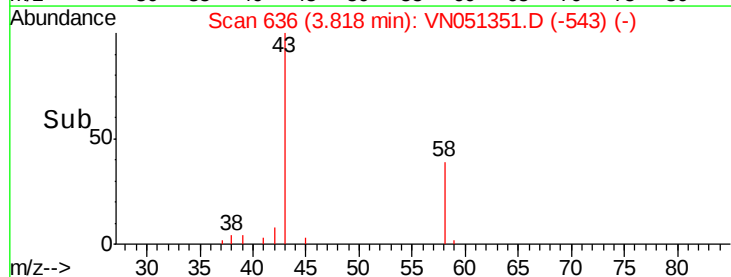
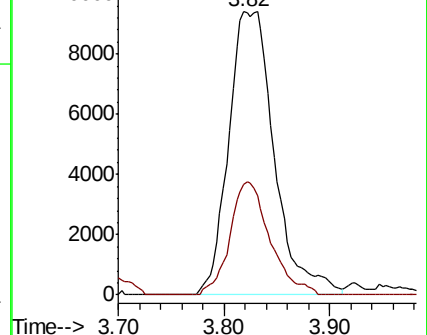
43 100

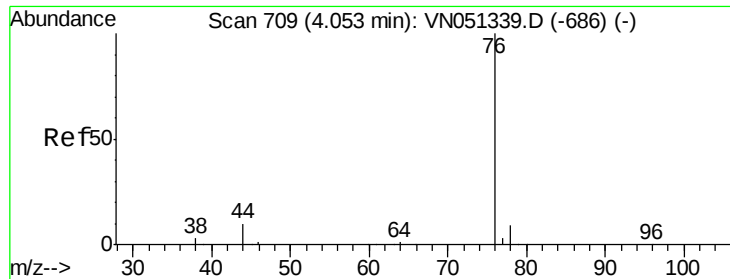
58 39.1 28.3 42.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

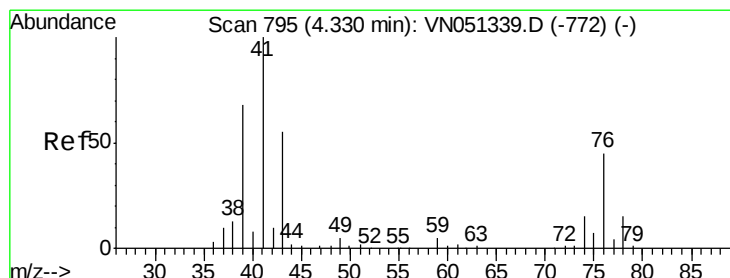
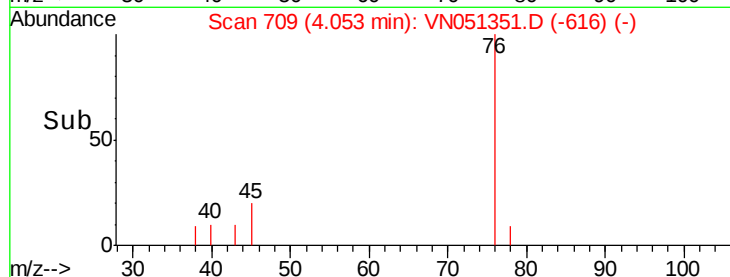
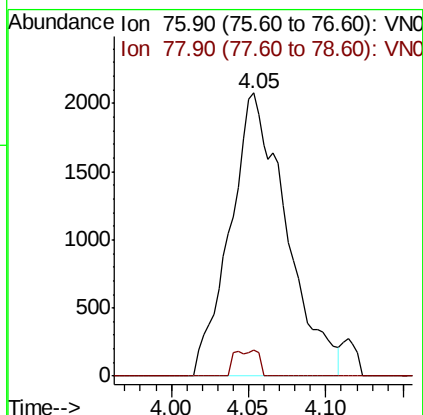
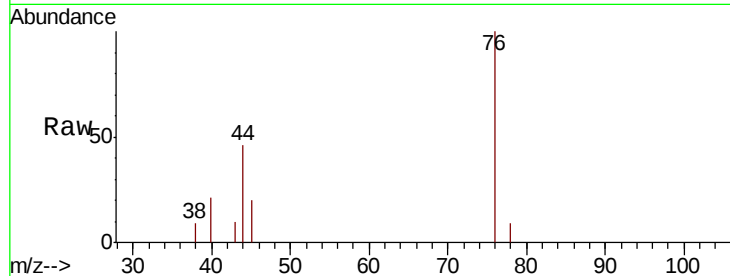




#17
Carbon Disulfide
Concen: 0.23 ug/l
RT: 4.05 min Scan# 709
Delta R.T. 0.00 min
Lab File: VN051351.D
Acq: 20 Sep 2018 20:09

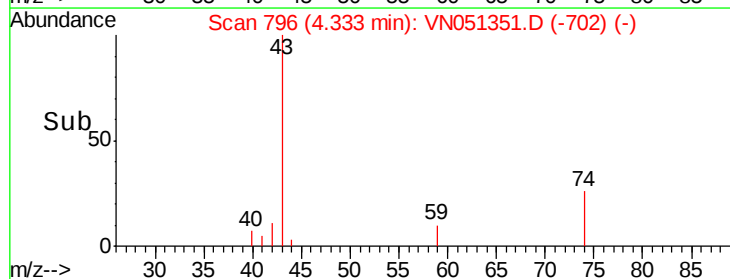
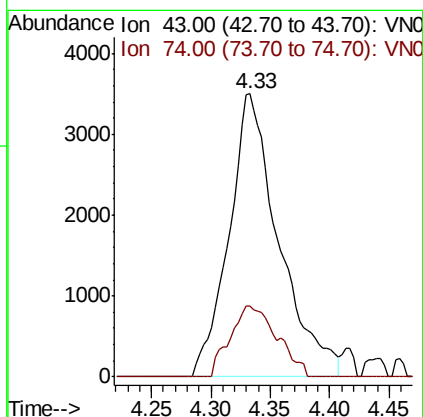
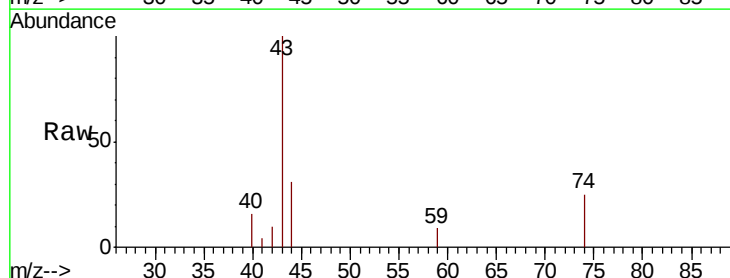
Instrument :
MSVOA_N
ClientSampleId :
PB113045ZHE#02

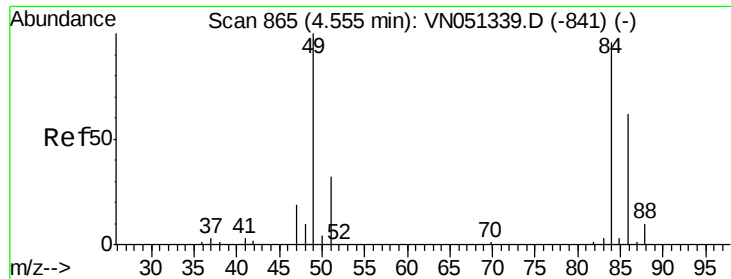
Tot Ion: 76 Resp: 5233
Ion Ratio Lower Upper
76 100
78 9.3 7.0 10.6



#18
Methyl Acetate
Concen: 1.66 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051351.D
Acq: 20 Sep 2018 20:09

Tgt Ion: 43 Resp: 10147
Ion Ratio Lower Upper
43 100
74 23.6 21.7 32.5

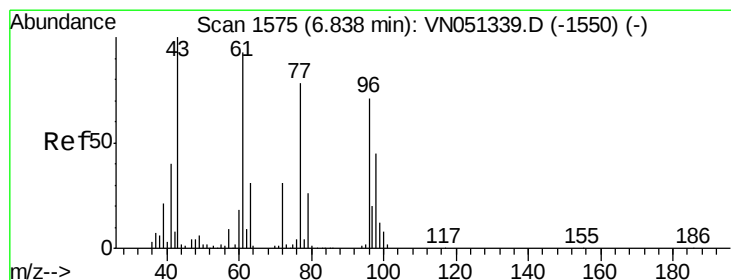
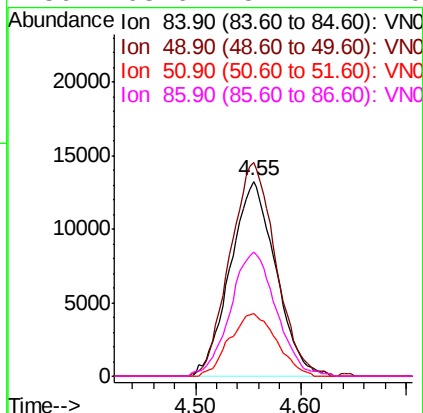
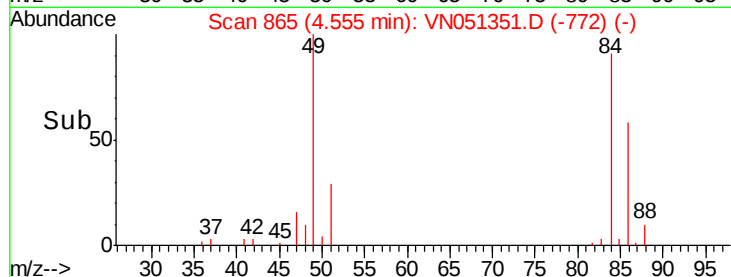
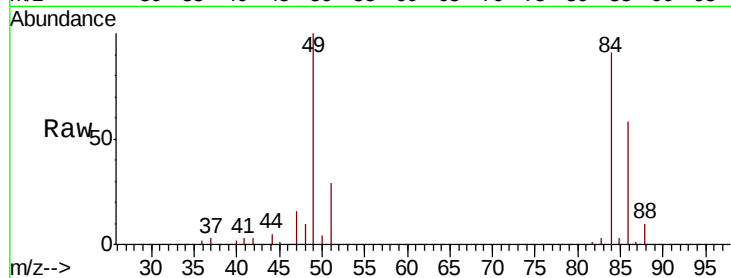




#20
Methvlene Chloride
Concen: 4.47 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051351.D
Acq: 20 Sep 2018 20:09

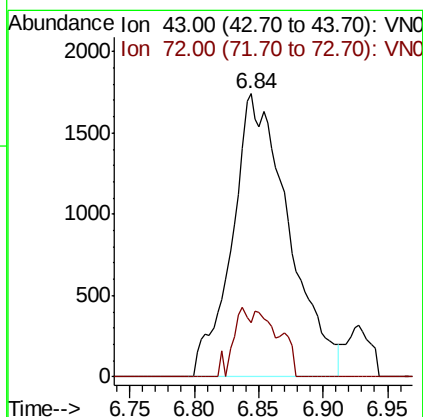
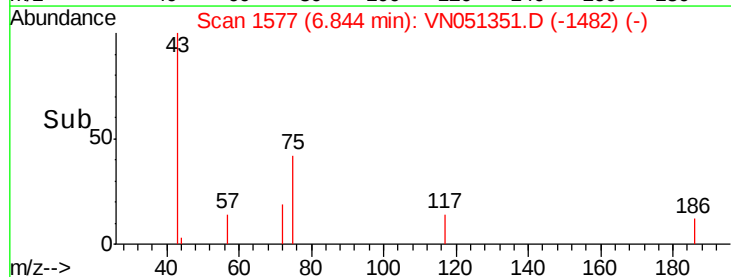
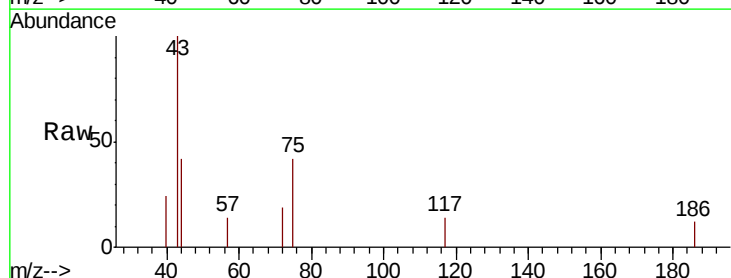
Instrument :
MSVOA_N
ClientSampleId :
PB113045ZHE#02

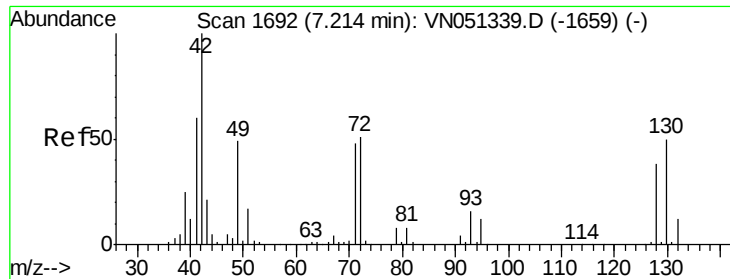
Tot Ion:	84	Resp:	39780
Ion	Ratio	Lower	Upper
84	100		
49	109.7	83.2	124.8
51	32.1	26.4	39.6
86	63.6	51.4	77.0



#25
2-Butanone
Concen: 2.15 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN051351.D
Acq: 20 Sep 2018 20:09

Tgt Ion:	43	Resp:	5333
Ion	Ratio	Lower	Upper
43	100		
72	19.2	24.7	37.1#





#29

Tetrahydrofuran

Concen: 0.77 ug/l

RT: 7.22 min Scan# 1693

Delta R.T. 0.00 min

Lab File: VN051351.D

Acq: 20 Sep 2018 20:09

Instrument :

MSVOA_N

ClientSampleId :

PB113045ZHE#02

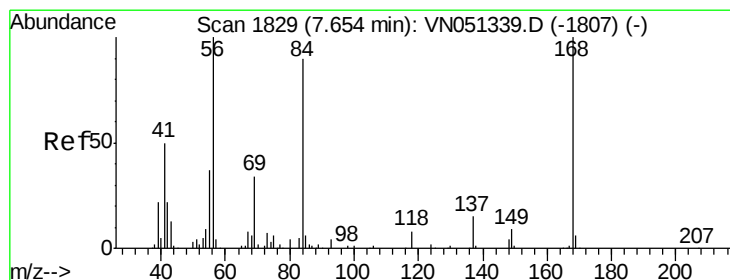
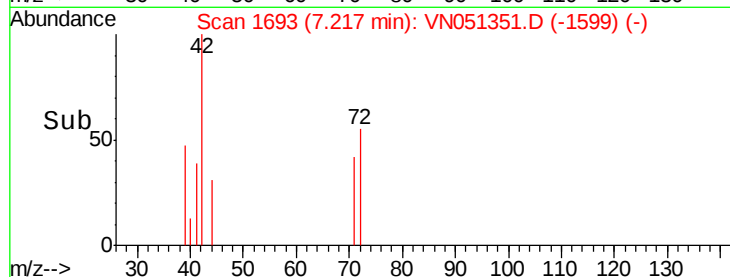
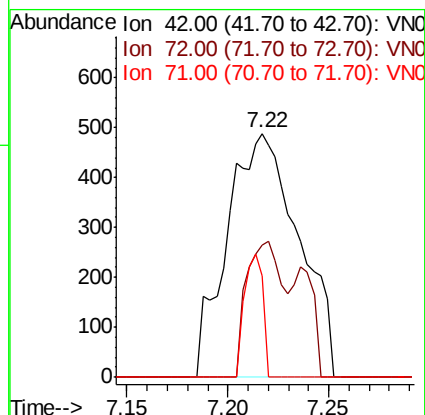
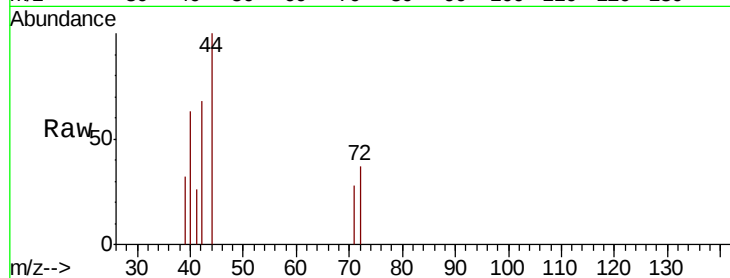
Tot Ion: 42 Resp: 1205

Ion Ratio Lower Upper

42 100

72 28.3 39.0 58.4#

71 13.2 36.5 54.7#



#31

Cyclohexane

Concen: 0.85 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051351.D

Acq: 20 Sep 2018 20:09

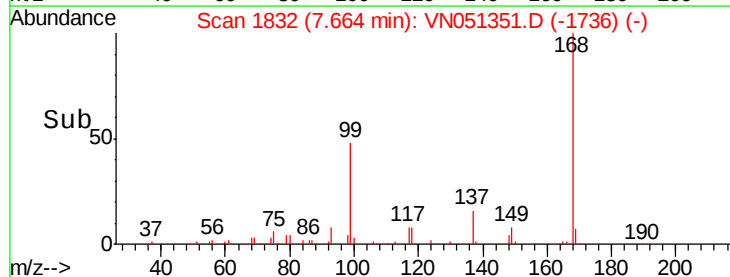
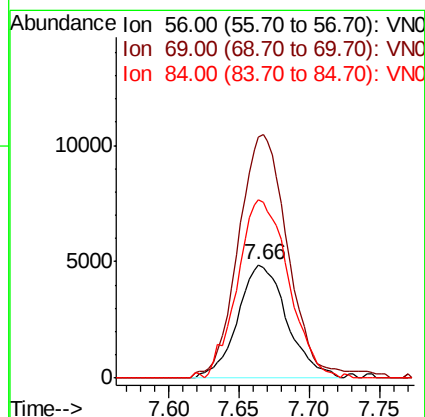
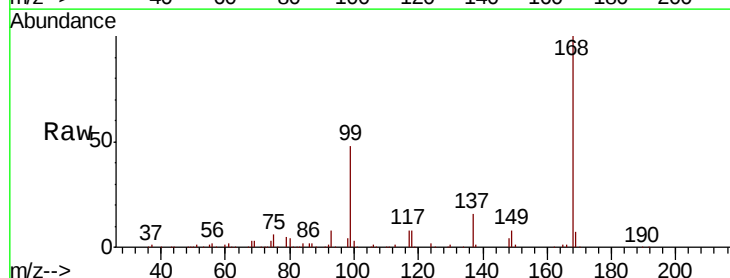
Tgt Ion: 56 Resp: 11914

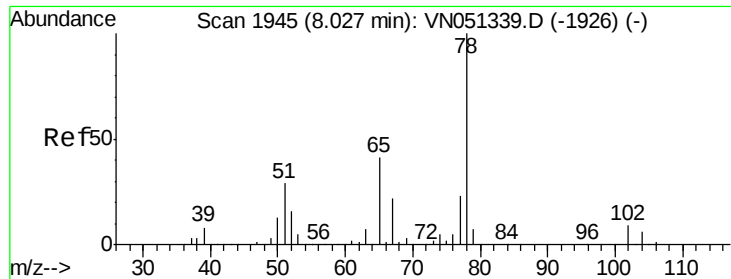
Ion Ratio Lower Upper

56 100

69 213.1 27.3 40.9#

84 157.7 72.2 108.2#

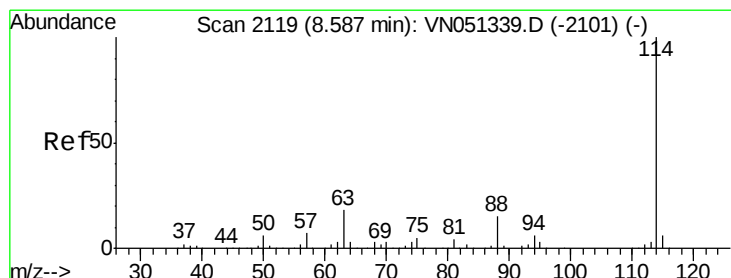
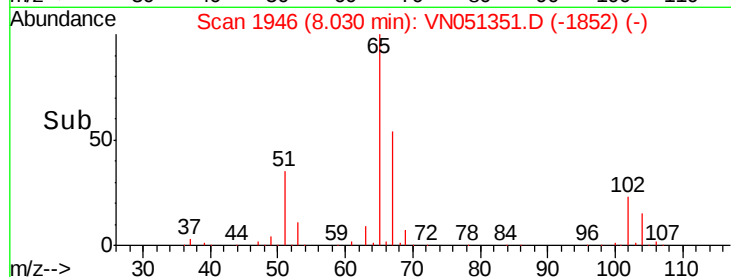
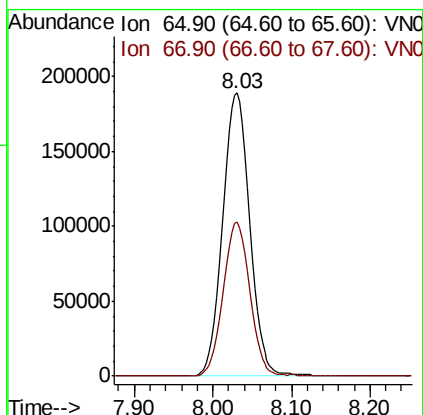
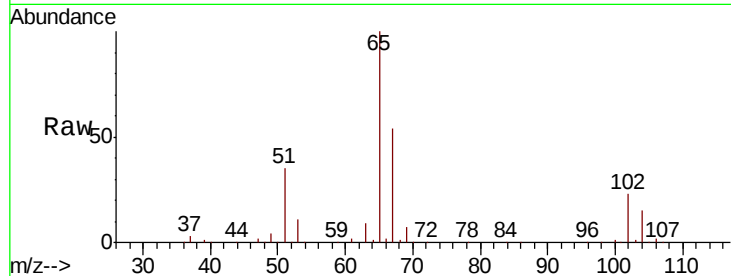




#33
 1,2-Dichloroethane-d4
 Concen: 51.87 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051351.D
 Acq: 20 Sep 2018 20:09

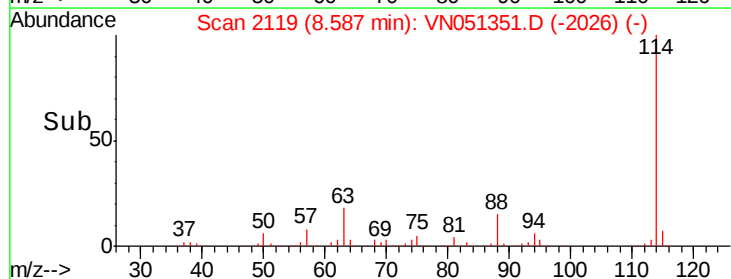
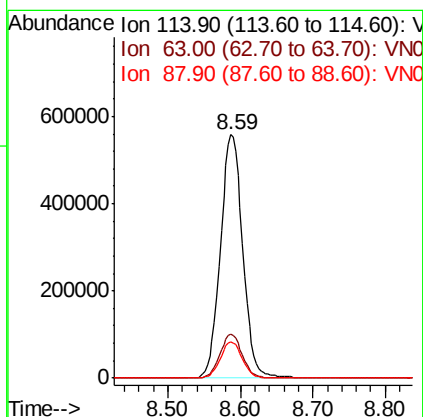
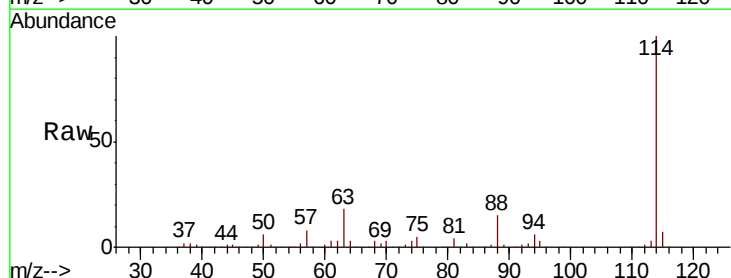
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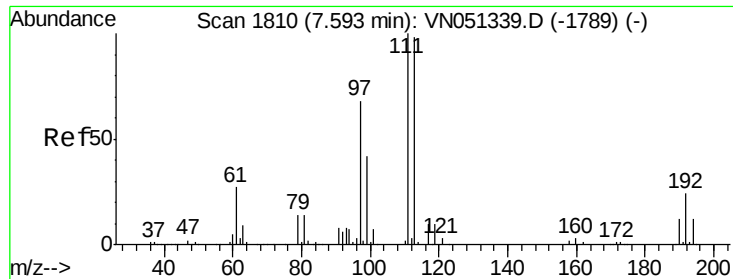
Tot Ion: 65 Resp: 449511
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 108.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051351.D
 Acq: 20 Sep 2018 20:09

Tgt Ion: 114 Resp: 1191135
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 36.6
 88 14.9 0.0 29.8

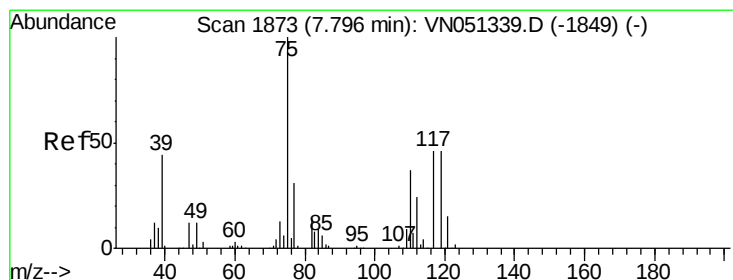
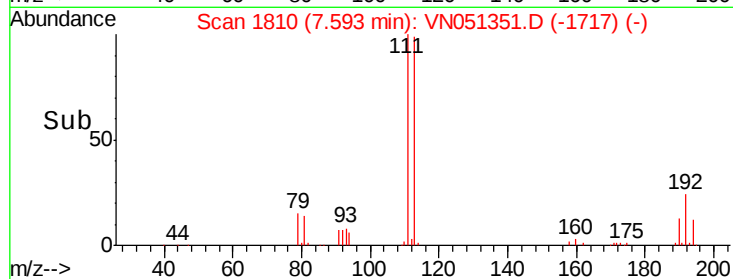
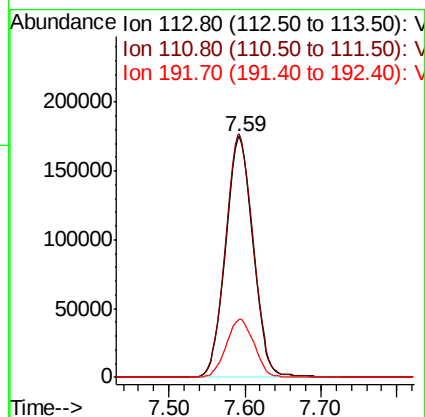
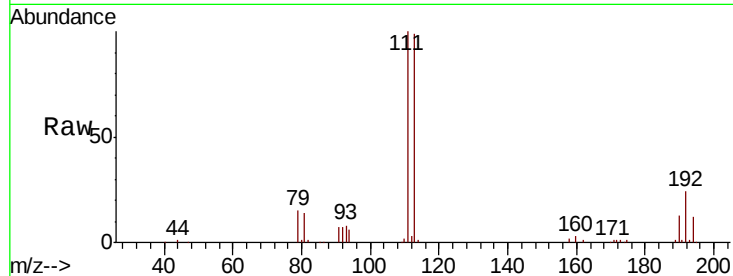




#35
 Dibromofluoromethane
 Concen: 45.97 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051351.D
 Acq: 20 Sep 2018 20:09

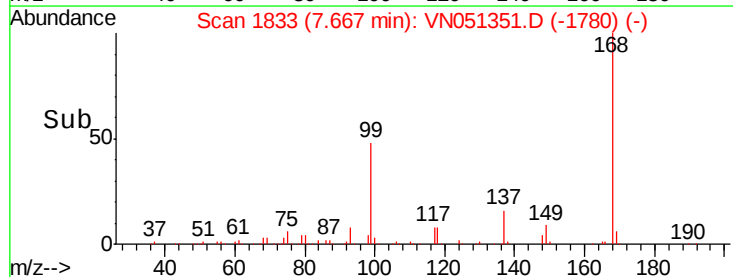
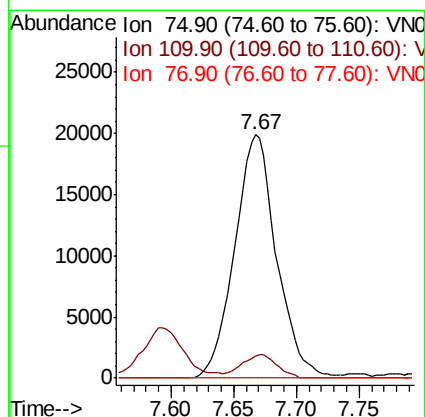
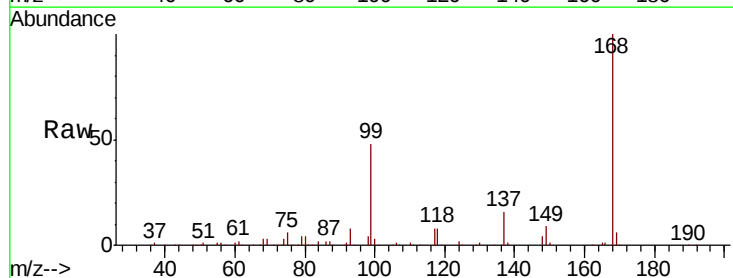
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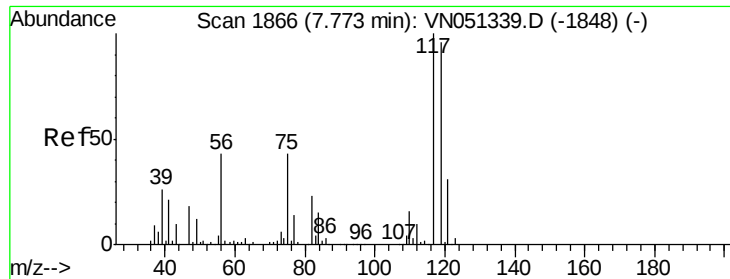
Tot Ion:113 Resp: 442495
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.9 122.9
 192 24.3 19.8 29.6



#36
 1,1-Dichloropropene
 Concen: 3.79 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051351.D
 Acq: 20 Sep 2018 20:09

Tgt Ion: 75 Resp: 46151
 Ion Ratio Lower Upper
 75 100
 110 8.1 18.9 56.5#
 77 0.0 25.4 38.2#





#38

Carbon Tetrachloride

Concen: 5.03 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051351.D

Acq: 20 Sep 2018 20:09

Instrument :

MSVOA_N

ClientSampleId :

PB113045ZHE#02

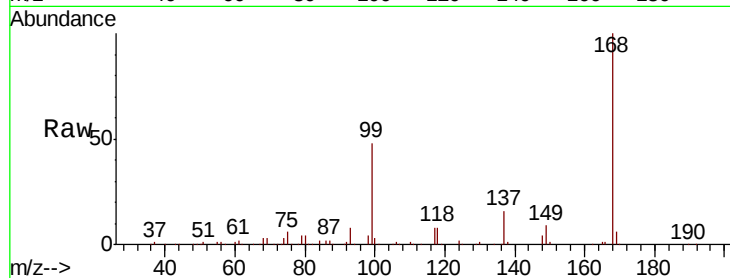
Tot Ion:117 Resp: 66354

Ion Ratio Lower Upper

117 100

119 5.2 77.0 115.4#

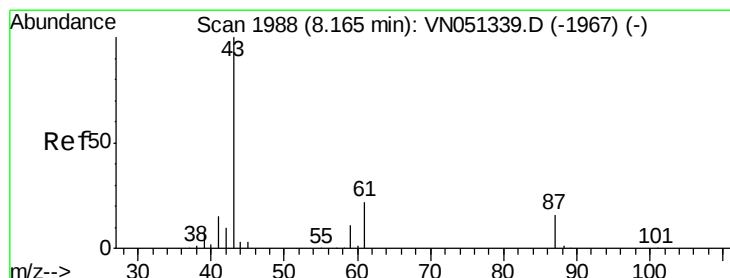
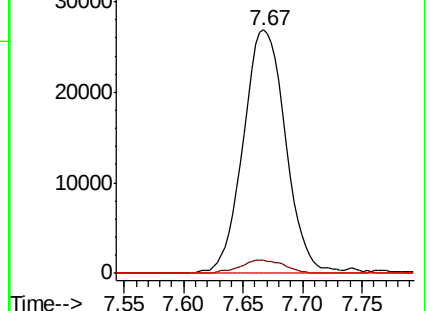
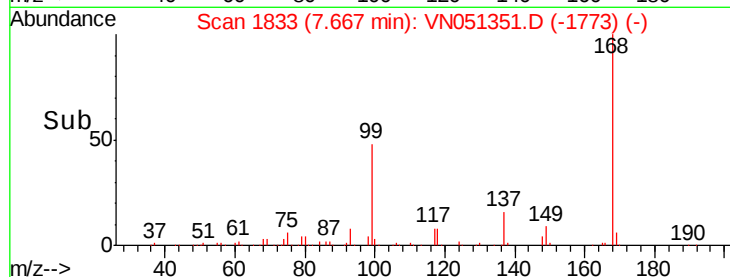
121 0.0 25.0 37.4#



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: 28.29 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051351.D

Acq: 20 Sep 2018 20:09

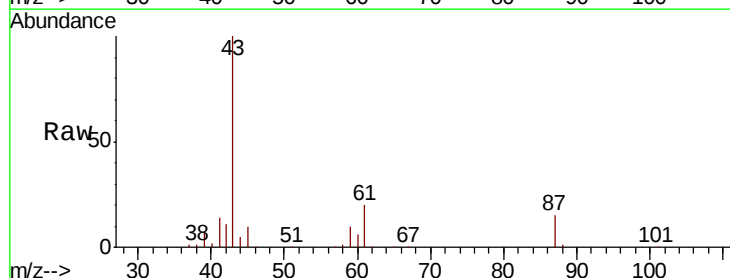
Tgt Ion: 43 Resp: 298818

Ion Ratio Lower Upper

43 100

61 19.6 18.1 27.1

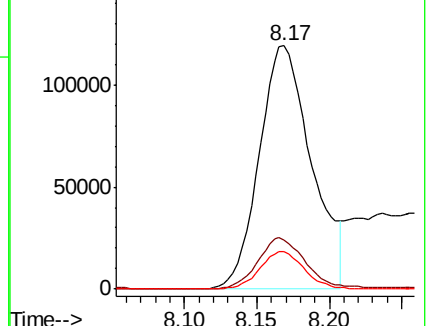
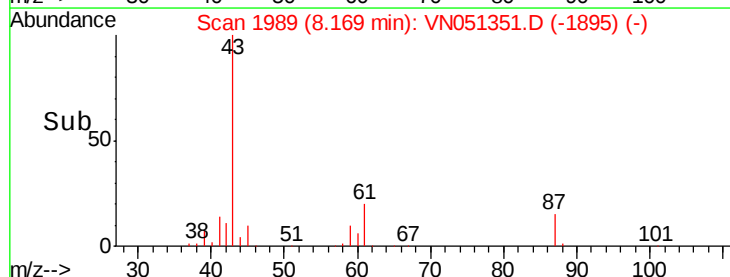
87 13.1 12.8 19.2

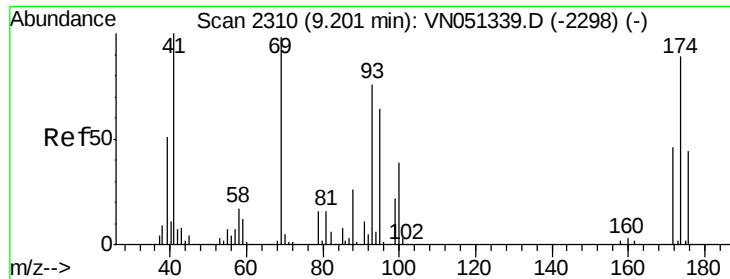


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#48

Methvl methacrylate

Concen: 1.32 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN051351.D

Acq: 20 Sep 2018 20:09

Instrument :

MSVOA_N

ClientSampleId :

PB113045ZHE#02

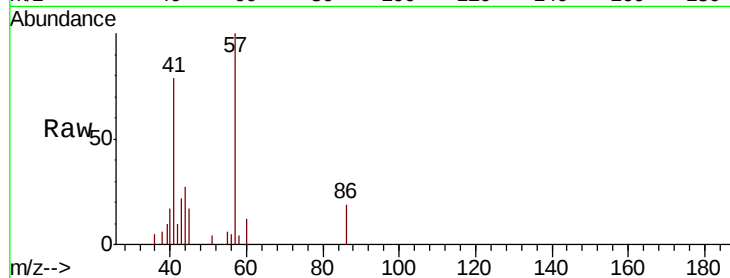
Tot Ion: 41 Resp: 7108

Ion Ratio Lower Upper

41 100

69 0.0 79.4 119.0#

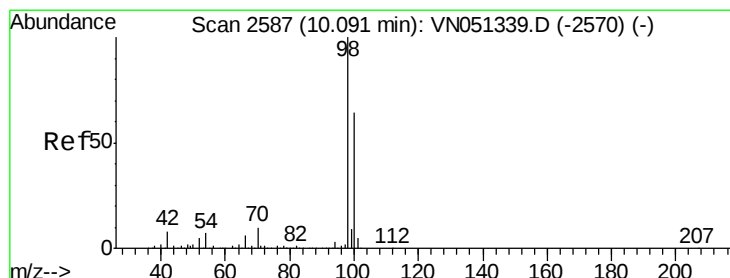
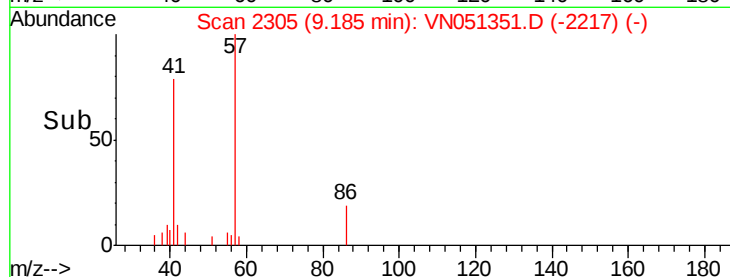
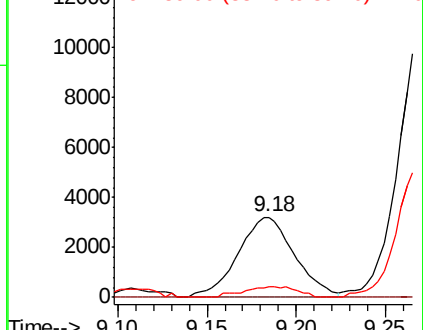
39 12.4 43.0 64.6#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#50

Toluene-d8

Concen: 43.61 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051351.D

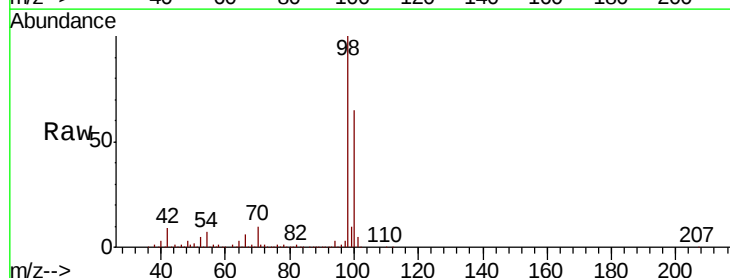
Acq: 20 Sep 2018 20:09

Tgt Ion: 98 Resp: 1613882

Ion Ratio Lower Upper

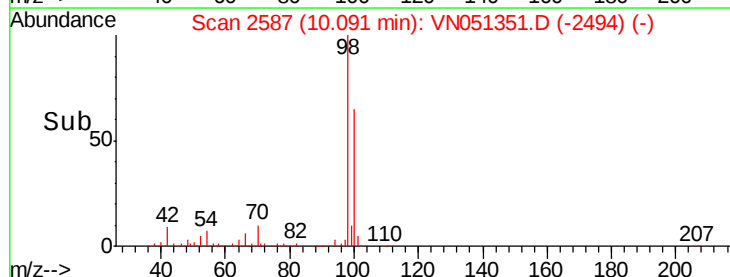
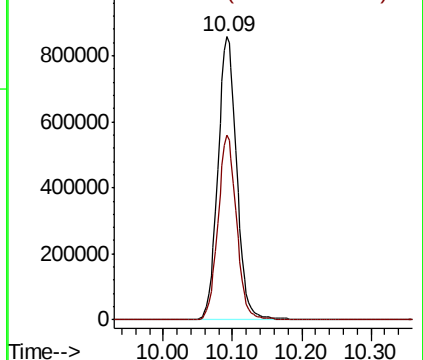
98 100

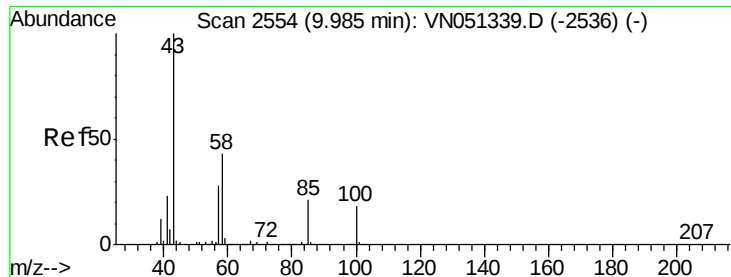
100 64.2 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.20 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.01 min

Lab File: VN051351.D

Acq: 20 Sep 2018 20:09

Instrument :

MSVOA_N

ClientSampleId :

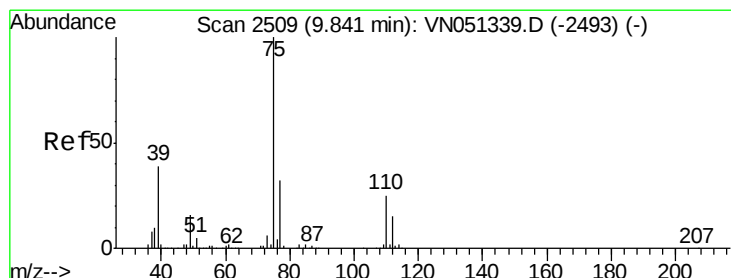
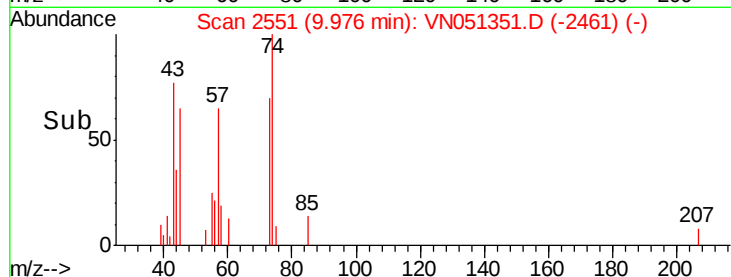
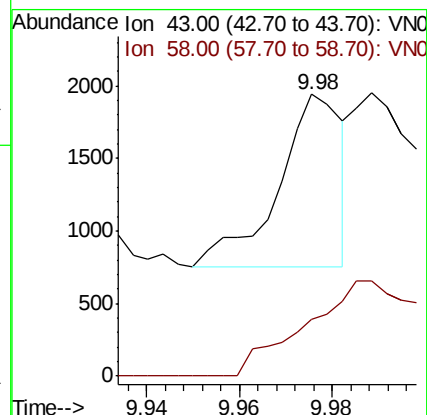
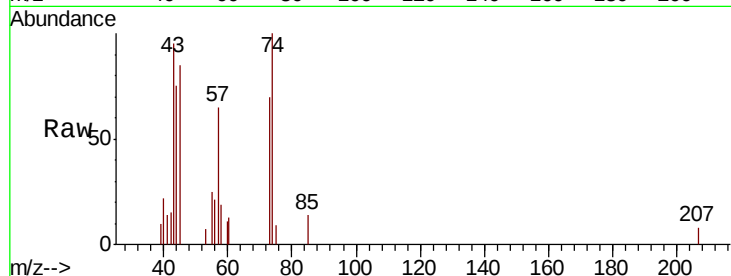
PB113045ZHE#02

Tot Ion: 43 Resp: 1144

Ion Ratio Lower Upper

43 100

58 103.2 34.2 51.4#



#54

cis-1,3-Dichloropropene

Concen: 0.21 ug/l

RT: 9.91 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN051351.D

Acq: 20 Sep 2018 20:09

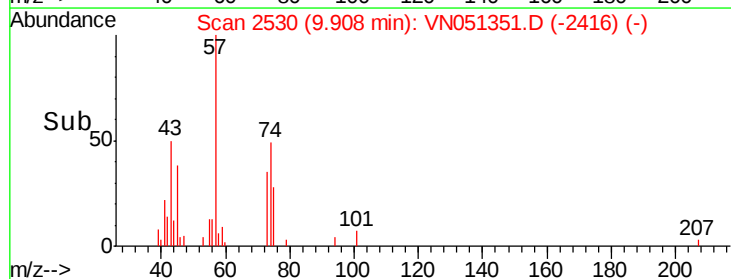
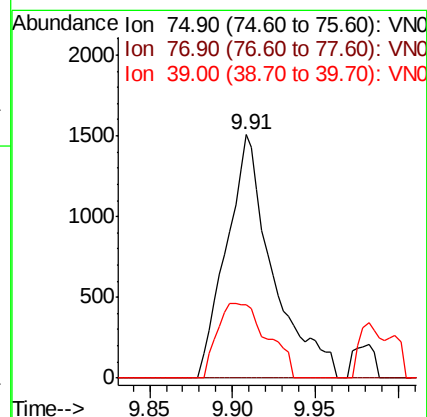
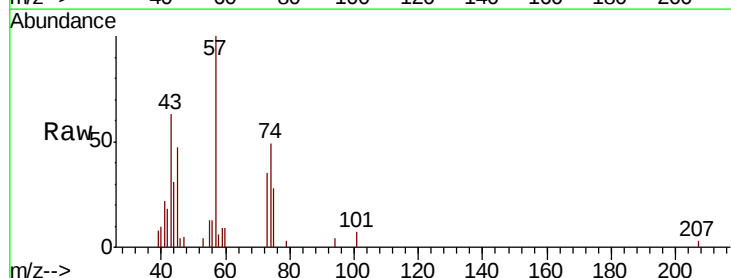
Tgt Ion: 75 Resp: 2918

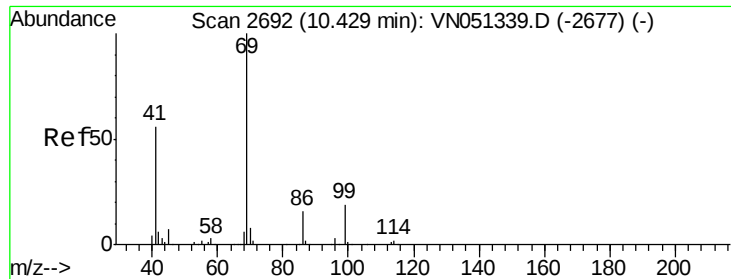
Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

39 29.9 31.0 46.4#





#56

Ethyl methacrylate

Concen: 0.27 ug/l

RT: 10.22 min Scan# 2627

Delta R.T. -0.21 min

Lab File: VN051351.D

Acq: 20 Sep 2018 20:09

Instrument :

MSVOA_N

ClientSampleId :

PB113045ZHE#02

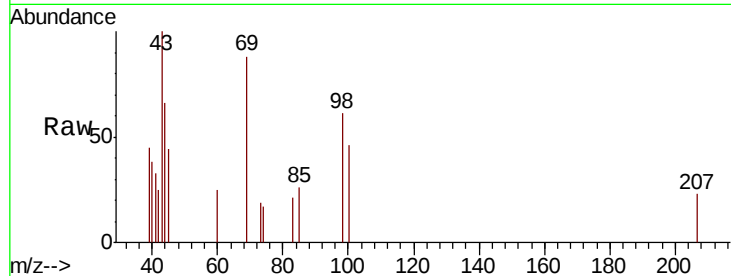
Tot Ion: 69 Resp: 2428

Ion Ratio Lower Upper

69 100

41 22.9 45.1 67.7#

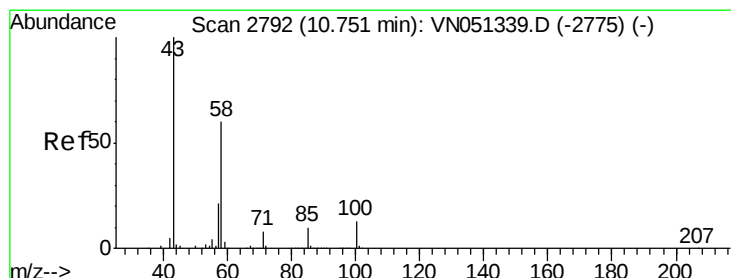
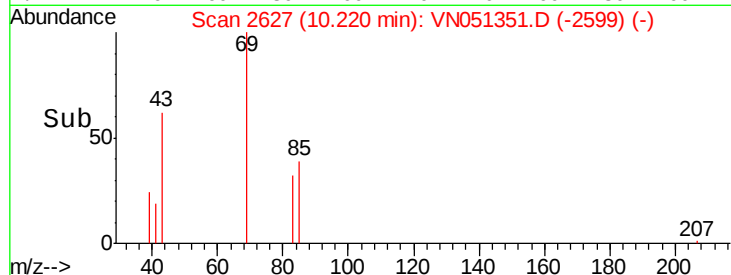
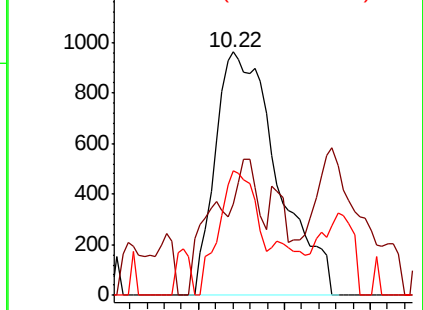
39 33.0 23.4 35.2



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 5.54 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051351.D

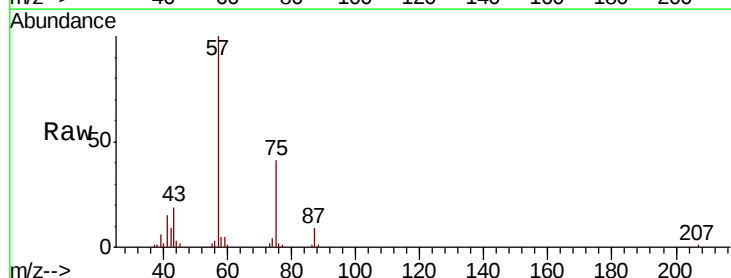
Acq: 20 Sep 2018 20:09

Tgt Ion: 43 Resp: 21206

Ion Ratio Lower Upper

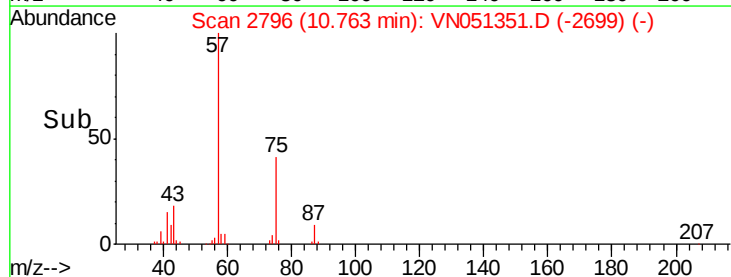
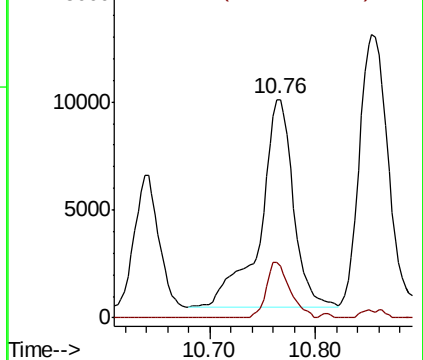
43 100

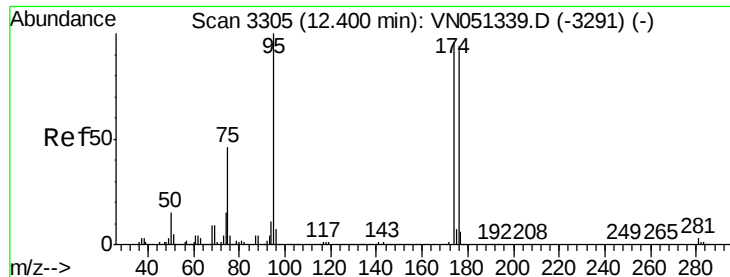
58 19.0 29.9 89.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

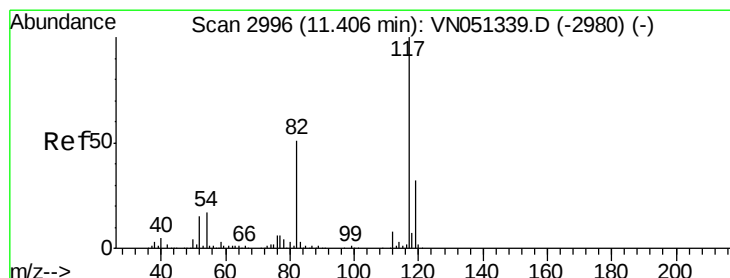
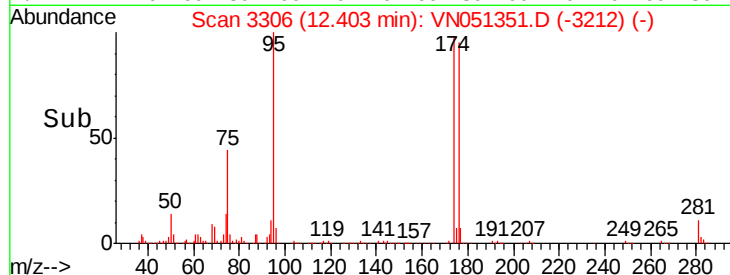
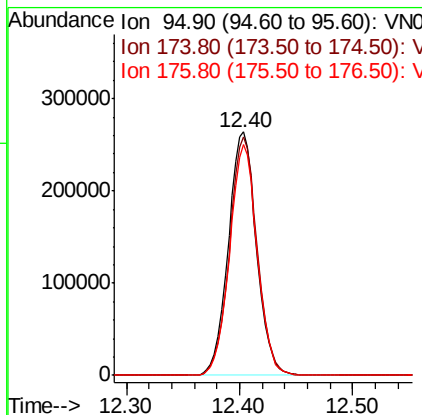
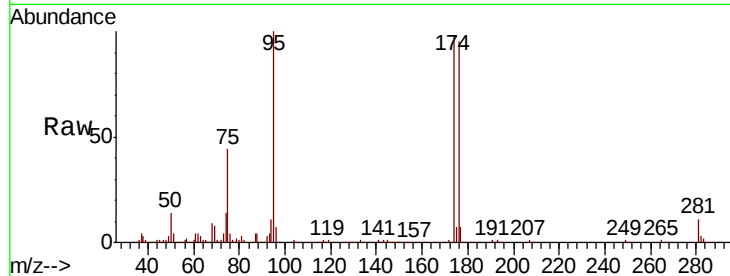




#62
4-Bromofluorobenzene
Concen: 37.66 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051351.D
Acq: 20 Sep 2018 20:09

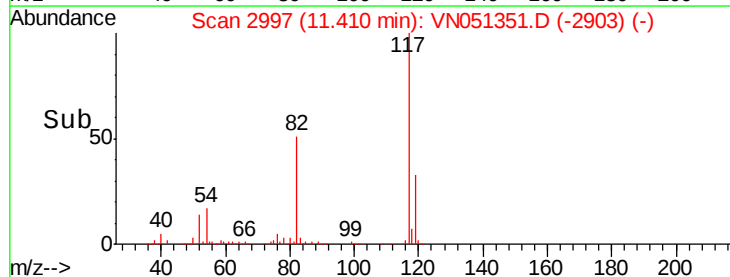
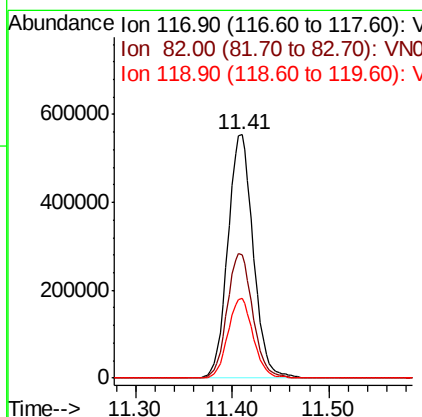
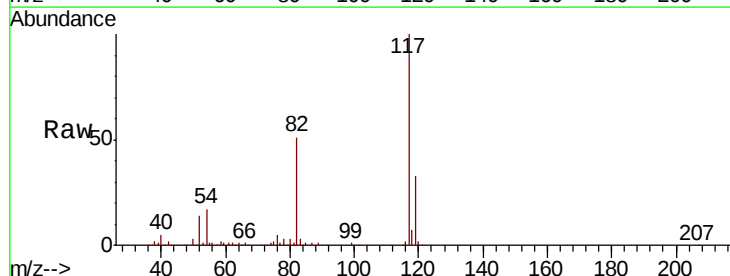
Instrument :
MSVOA_N
ClientSampleId :
PB113045ZHE#02

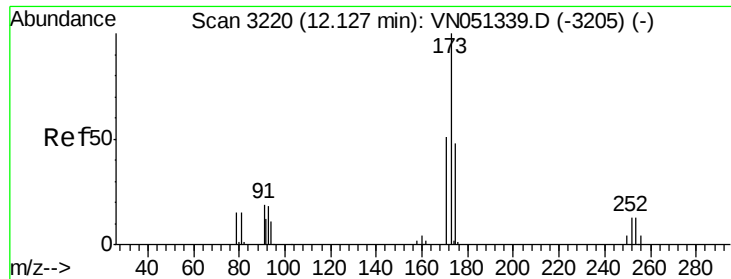
Tot Ion: 95 Resp: 453322
Ion Ratio Lower Upper
95 100
174 97.0 0.0 194.6
176 93.3 0.0 189.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051351.D
Acq: 20 Sep 2018 20:09

Tgt Ion: 117 Resp: 1010189
Ion Ratio Lower Upper
117 100
82 50.5 40.7 61.1
119 32.8 25.3 37.9





#71

Bromoform

Concen: 0.25 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN051351.D

Acq: 20 Sep 2018 20:09

Instrument :

MSVOA_N

ClientSampleId :

PB113045ZHE#02

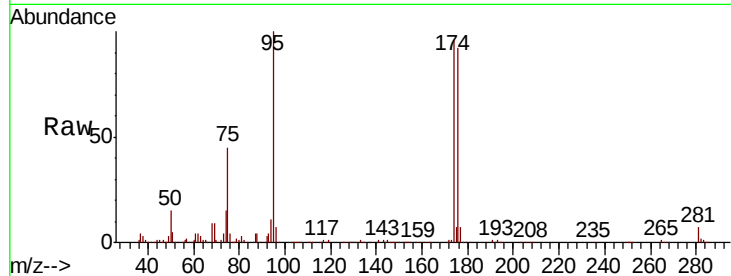
Tot Ion:173 Resp: 1556

Ion Ratio Lower Upper

173 100

175 1725.6 24.3 73.0#

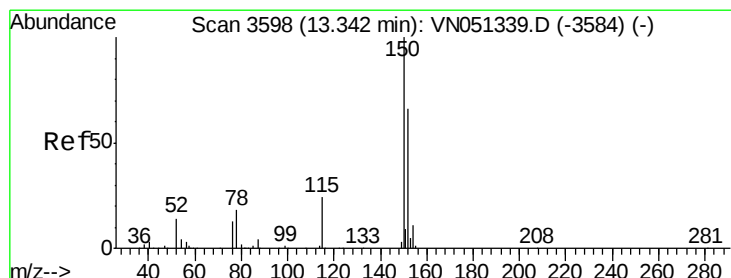
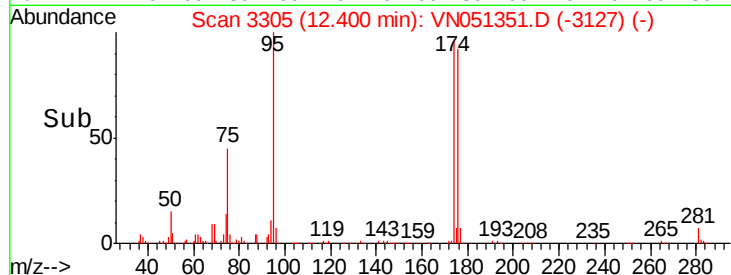
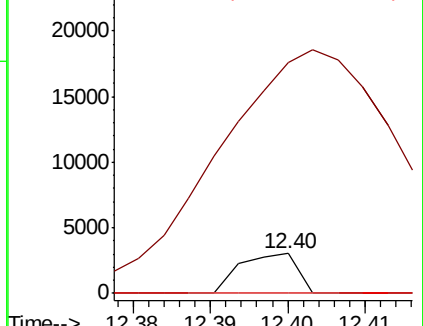
254 0.0 0.1 0.1#



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: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051351.D

Acq: 20 Sep 2018 20:09

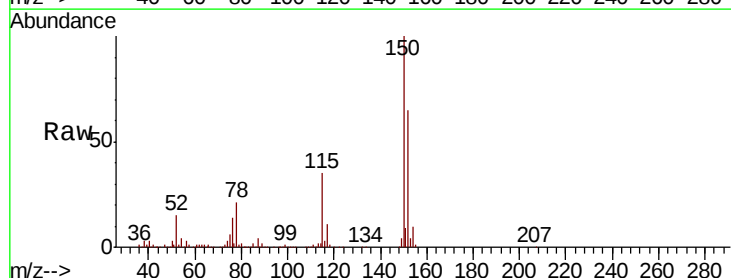
Tgt Ion:152 Resp: 406075

Ion Ratio Lower Upper

152 100

115 54.1 26.9 80.7

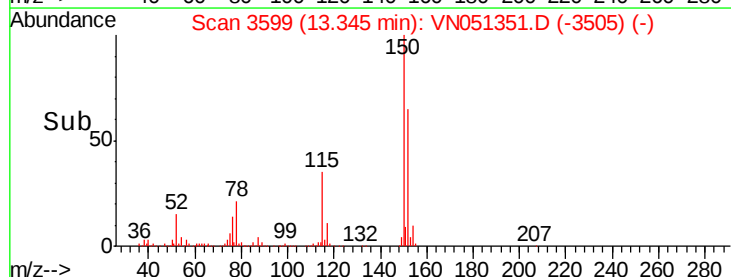
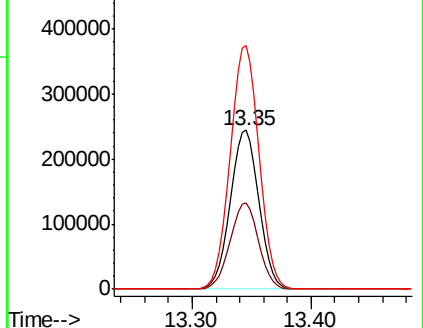
150 154.6 0.0 345.0

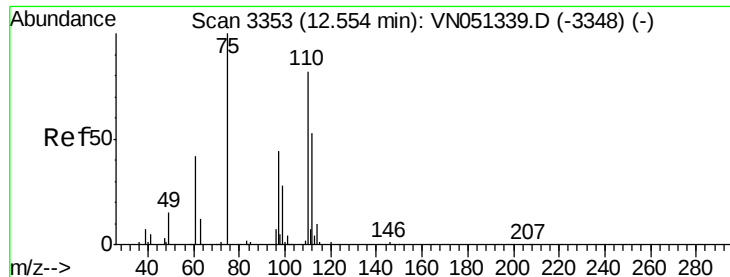


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 34.88 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051351.D

Acq: 20 Sep 2018 20:09

Instrument :

MSVOA_N

ClientSampleId :

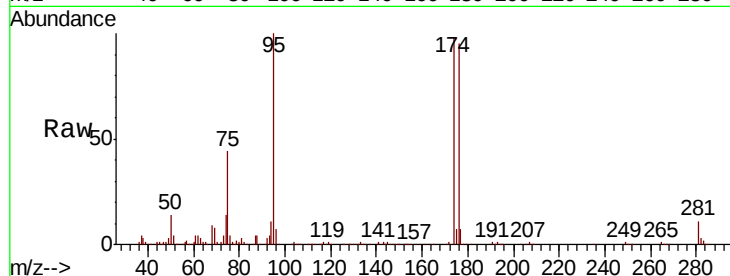
PB113045ZHE#02

Tot Ion: 75 Resp: 204560

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051339.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN051339.D (-3348) (-)

12.40

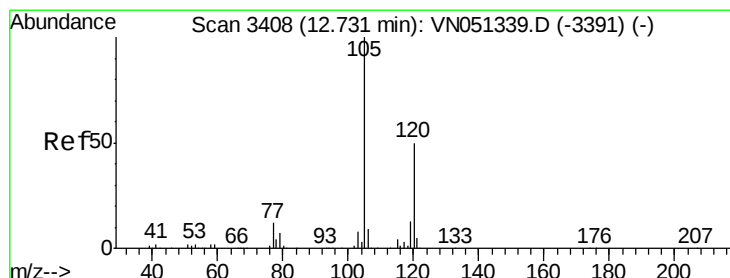
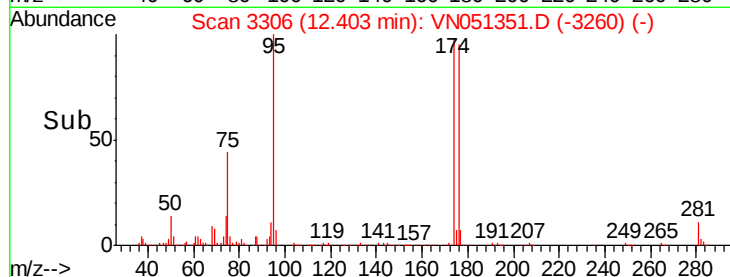
100000

50000

0

12.35 12.40 12.45 12.50

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.22 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN051351.D

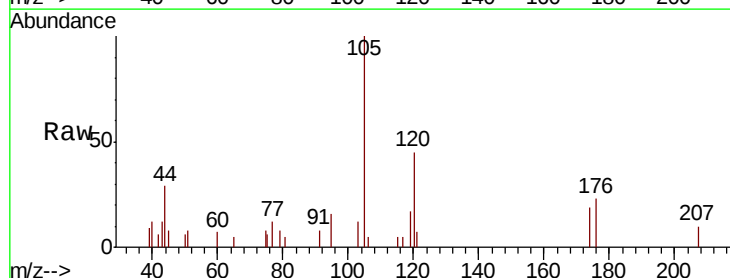
Acq: 20 Sep 2018 20:09

Tgt Ion:105 Resp: 5236

Ion Ratio Lower Upper

105 100

120 49.7 25.2 75.6



Abundance Ion 105.00 (104.70 to 105.70): VN051339.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN051339.D (-3391) (-)

12.73

3000

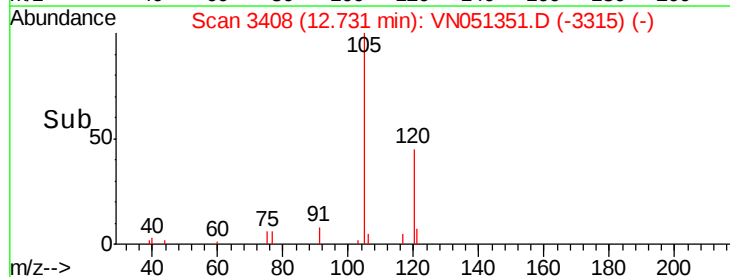
2000

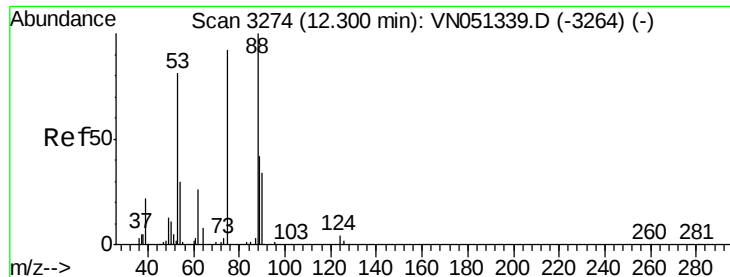
1000

0

12.70 12.75

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 120.77 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051351.D

Acq: 20 Sep 2018 20:09

Instrument :

MSVOA_N

ClientSampleId :

PB113045ZHE#02

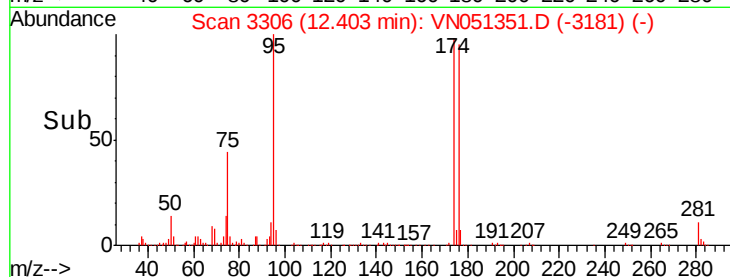
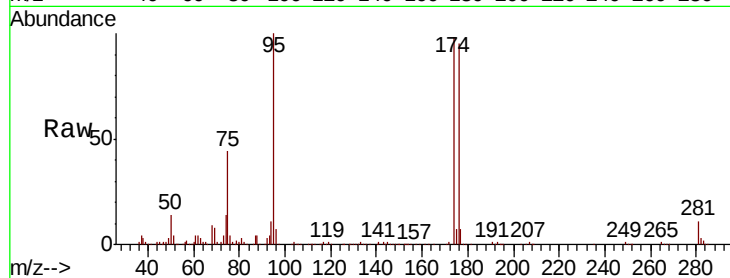
Tot Ion: 75 Resp: 204560

Ion Ratio Lower Upper

75 100

53 0.1 69.9 104.9#

89 0.1 37.9 56.9#



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

