

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111918\
 Data File : VN052389.D
 Acq On : 19 Nov 2018 17:07
 Operator : MD\SY
 Sample : PB114846ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#05

Quant Time: Nov 20 07:13:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	285676	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	473730	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	407754	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	138058	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	206866	51.27	ug/l	0.00
Spiked Amount			Recovery	=	102.54%	
35) Dibromofluoromethane	7.59	113	156004	51.06	ug/l	0.00
Spiked Amount			Recovery	=	102.12%	
50) Toluene-d8	10.09	98	601290	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
62) 4-Bromofluorobenzene	12.40	95	175464	44.37	ug/l	0.00
Spiked Amount			Recovery	=	88.74%	

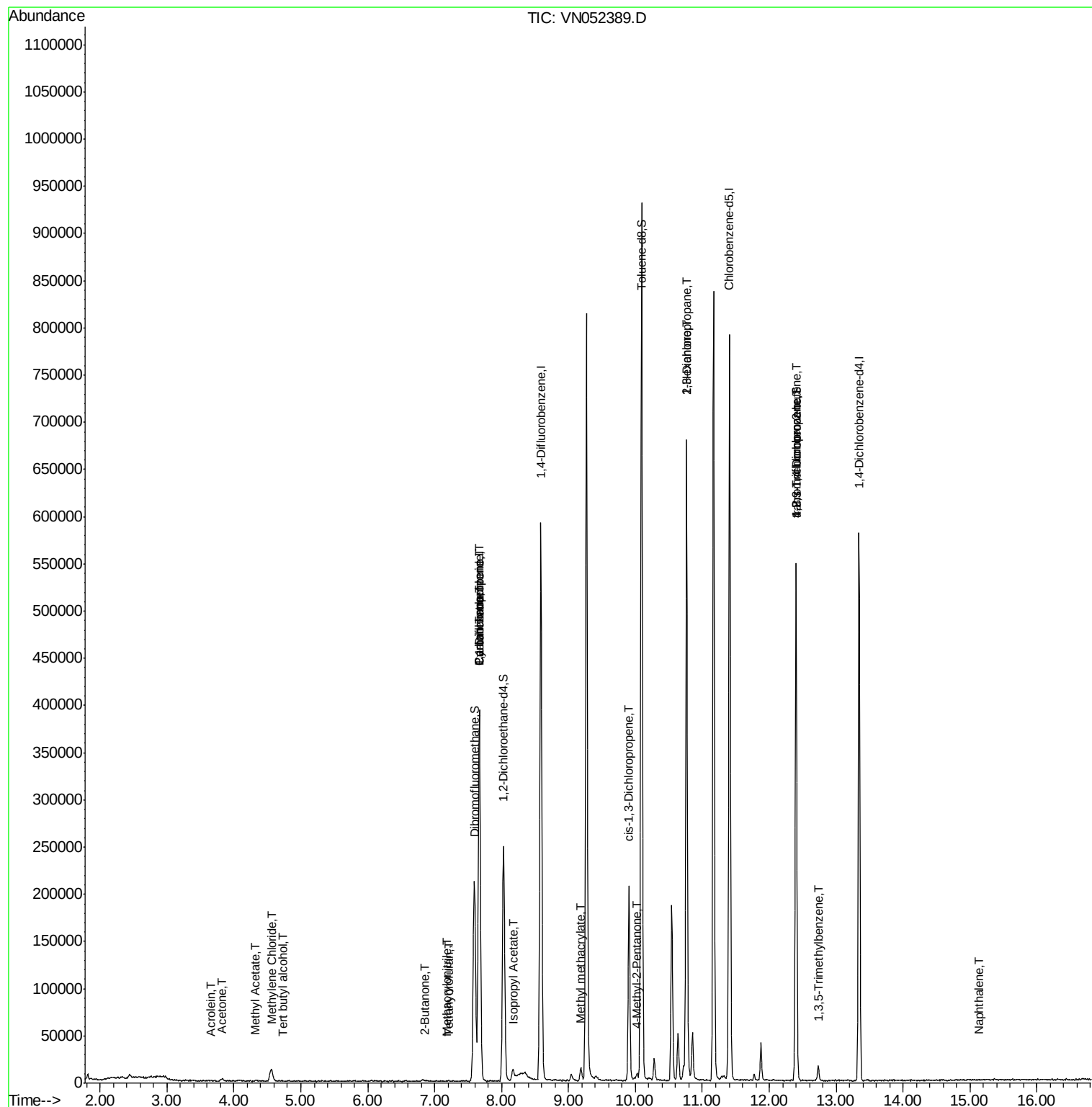
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	67	0.314	ug/l #	72
13) Acrolein	3.65	56	29	21.853	ug/l #	14
16) Acetone	3.83	43	4805	4.325	ug/l	95
18) Methyl Acetate	4.32	43	517	0.596	ug/l #	57
20) Methylene Chloride	4.56	84	7859	1.648	ug/l	96
25) 2-Butanone	6.86	43	868	0.555	ug/l #	52
29) Tetrahydrofuran	7.22	42	241	0.235	ug/l #	40
31) Cyclohexane	7.66	56	8940	0.405	ug/l #	37
36) 1,1-Dichloropropene	7.66	75	26954	5.677	ug/l #	47
38) Carbon Tetrachloride	7.67	117	31923	7.318	ug/l #	16
41) Methacrylonitrile	7.18	41	67	3.728	ug/l #	100
43) Isopropyl Acetate	8.17	43	16533	2.486	ug/l	98
48) Methyl methacrylate	9.18	41	5626	1.667	ug/l #	33
51) 4-Methyl-2-Pentanone	10.03	43	4873	1.456	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	31038	5.903	ug/l #	76
57) 1,3-Dichloropropane	10.76	76	6697	1.285	ug/l #	43
59) 2-Hexanone	10.76	43	113648	49.363	ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	102839	43.900	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7376	0.836	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	102839	142.384	ug/l #	5
95) Naphthalene	15.14	128	30	2.610	ug/l #	69

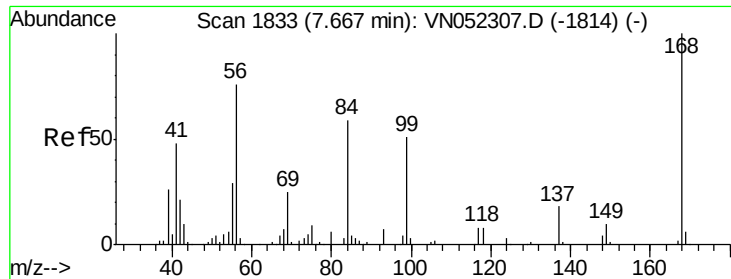
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Nov 15 03:02:37 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: VN052389.D

Acq: 19 Nov 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

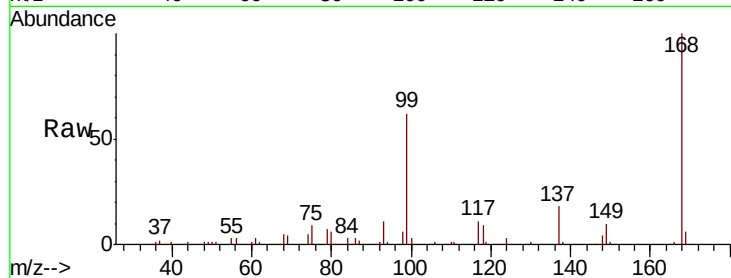
PB114846ZHE#05

Tot Ion:168 Resp: 285676

Ion Ratio Lower Upper

168 100

99 62.3 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VN052307.D (-1814) (-)

Ion 98.90 (98.60 to 99.60): VN052307.D (-1814) (-)

7.67

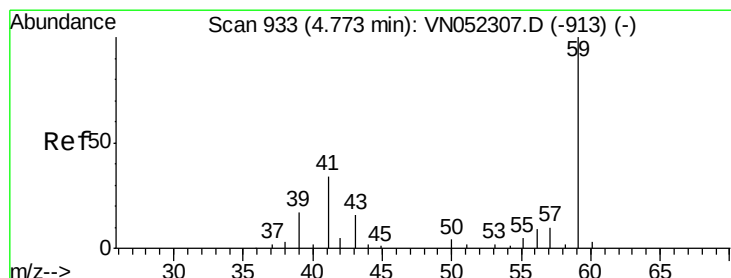
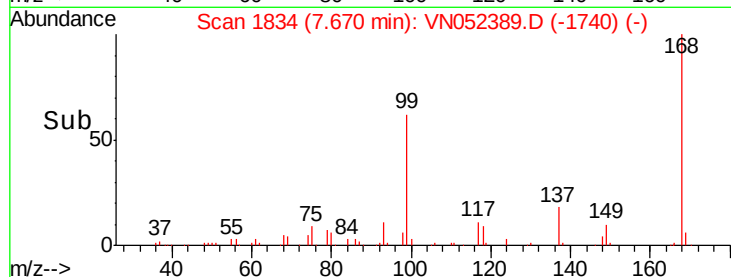
100000

50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 0.314 ug/l

RT: 4.73 min Scan# 920

Delta R.T. -0.04 min

Lab File: VN052389.D

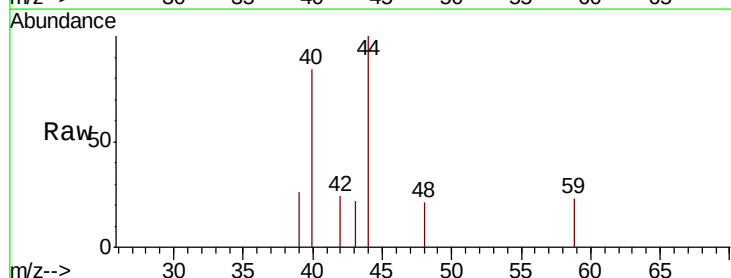
Acq: 19 Nov 2018 17:07

Tgt Ion: 59 Resp: 67

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN052307.D (-913) (-)

Ion 57.00 (56.70 to 57.70): VN052307.D (-913) (-)

4.73

200

150

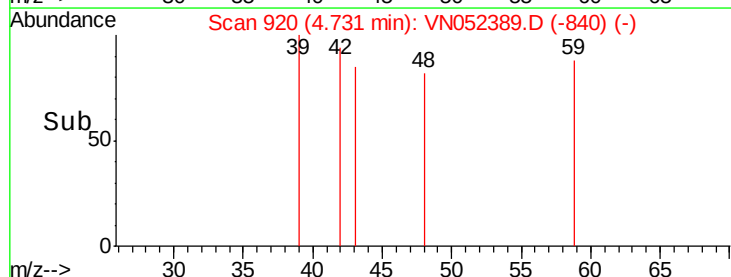
100

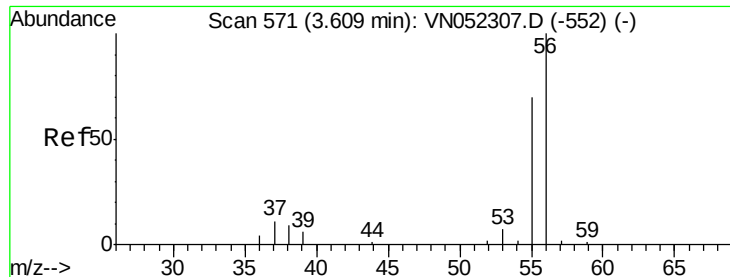
50

0

Time-->

4.72 4.73 4.74





#13

Acrolein

Concen: 21.853 ug/l

RT: 3.65 min Scan# 583

Delta R.T. 0.04 min

Lab File: VN052389.D

Acq: 19 Nov 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

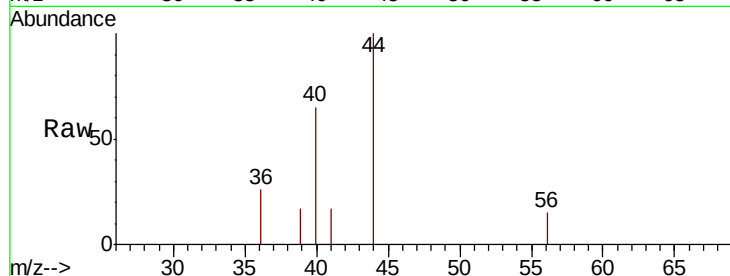
PB114846ZHE#05

Tot Ion: 56 Resp: 29

Ion Ratio Lower Upper

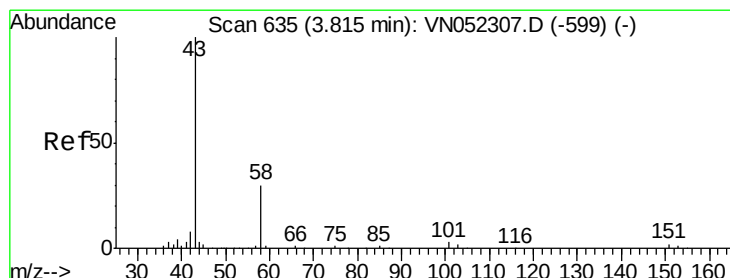
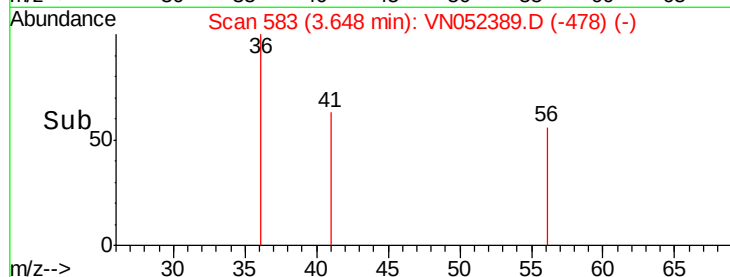
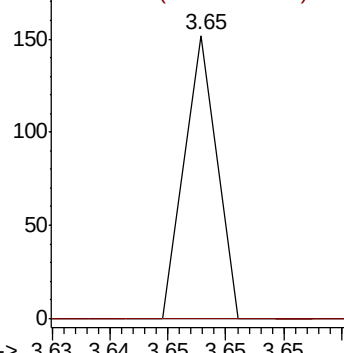
56 100

55 0.0 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 4.325 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN052389.D

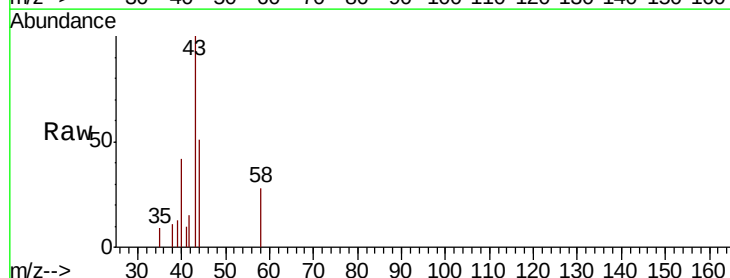
Acq: 19 Nov 2018 17:07

Tgt Ion: 43 Resp: 4805

Ion Ratio Lower Upper

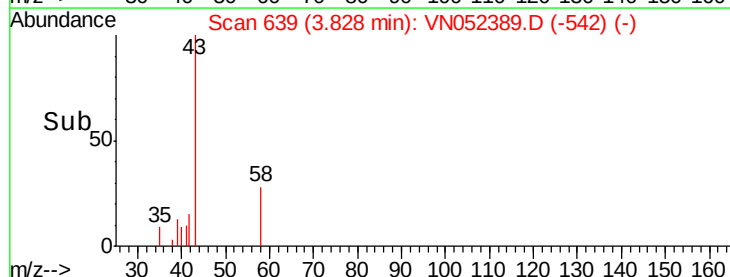
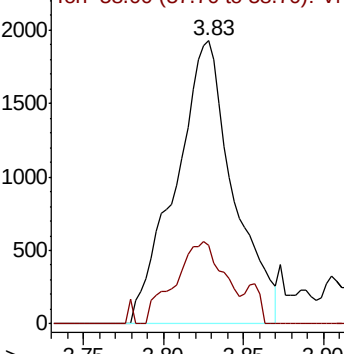
43 100

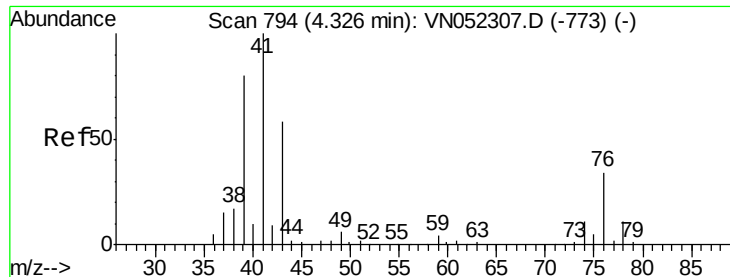
58 27.8 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

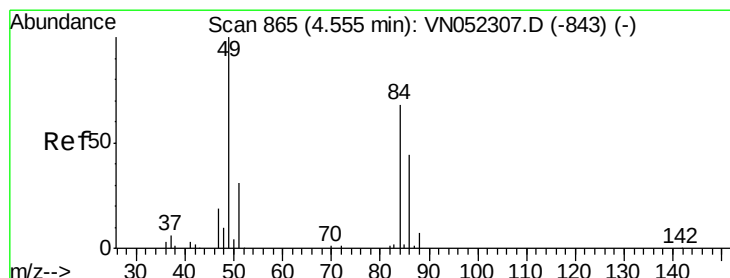
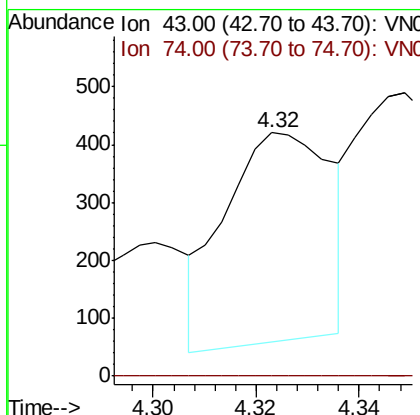
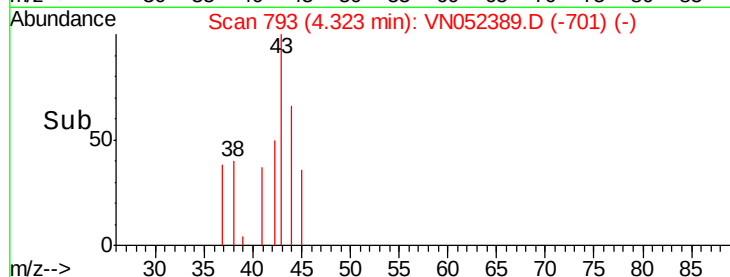
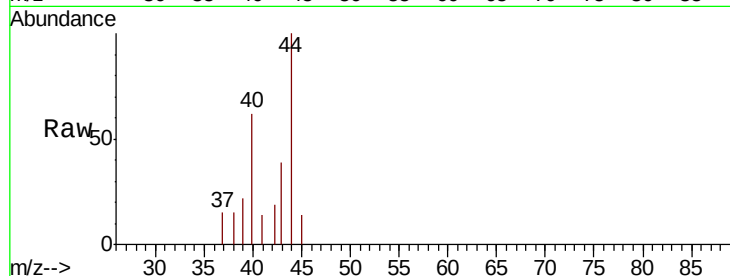




#18
Methyl Acetate
Concen: 0.596 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.00 min
Lab File: VN052389.D
Acq: 19 Nov 2018 17:07

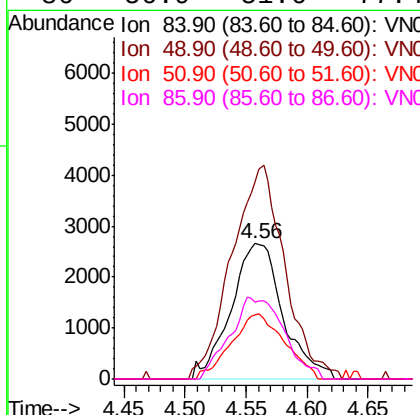
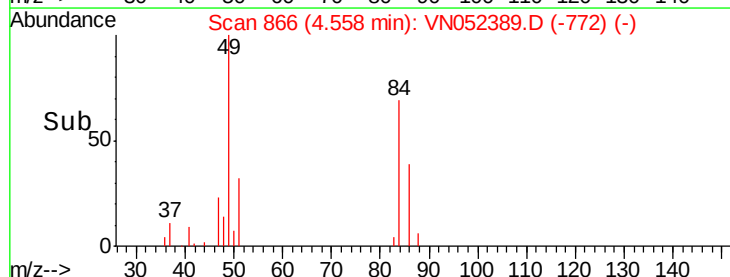
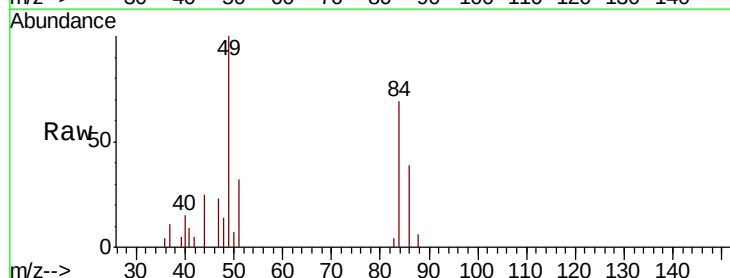
Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#05

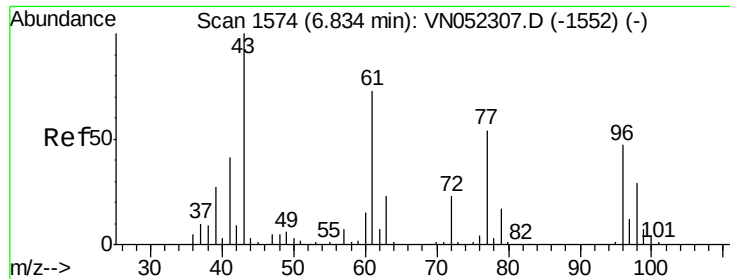
Tot Ion: 43 Resp: 517
Ion Ratio Lower Upper
43 100
74 0.0 15.9 23.9#



#20
Methylene Chloride
Concen: 1.648 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052389.D
Acq: 19 Nov 2018 17:07

Tgt Ion: 84 Resp: 7859
Ion Ratio Lower Upper
84 100
49 145.9 118.2 177.2
51 47.2 36.1 54.1
86 56.9 51.6 77.4

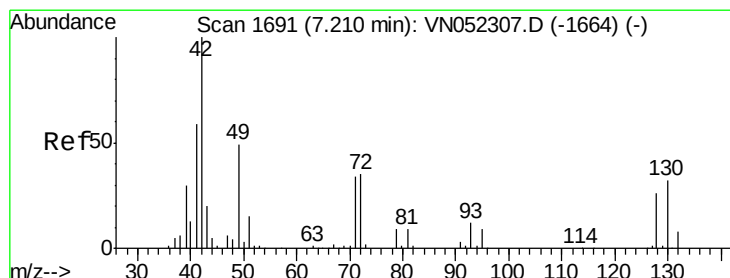
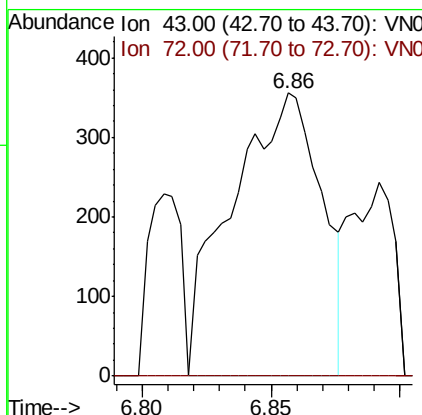
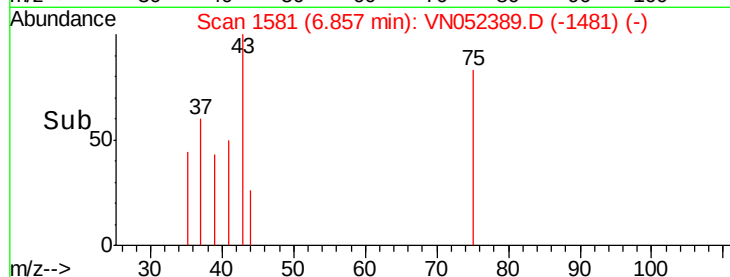
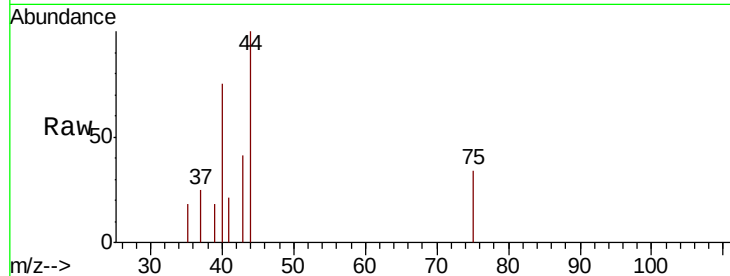




#25
2-Butanone
Concen: 0.555 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.02 min
Lab File: VN052389.D
Acq: 19 Nov 2018 17:07

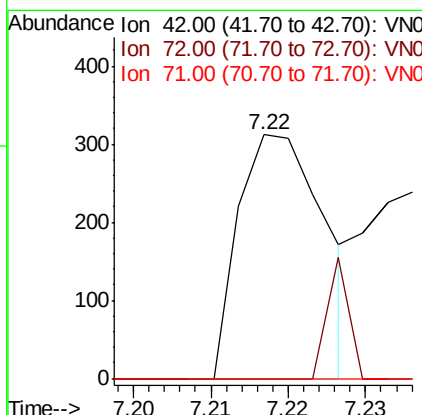
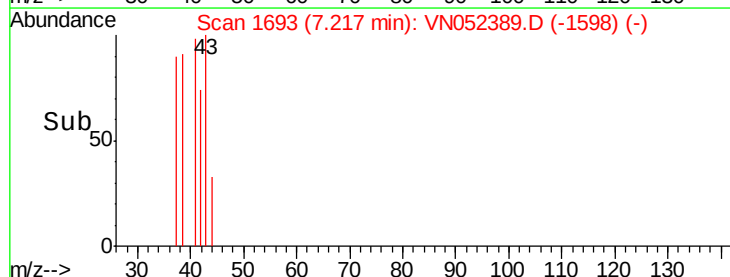
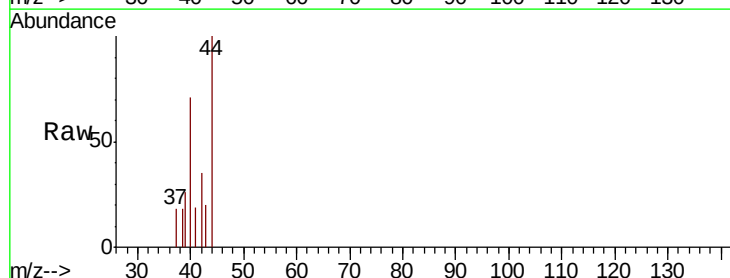
Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#05

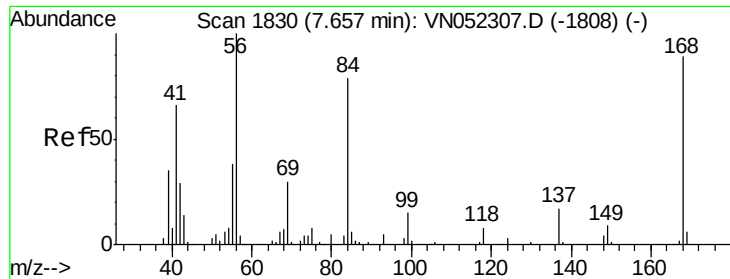
Tot Ion: 43 Resp: 868
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#



#29
Tetrahydrofuran
Concen: 0.235 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.01 min
Lab File: VN052389.D
Acq: 19 Nov 2018 17:07

Tgt Ion: 42 Resp: 241
Ion Ratio Lower Upper
42 100
72 0.0 28.6 42.8#
71 0.0 26.7 40.1#

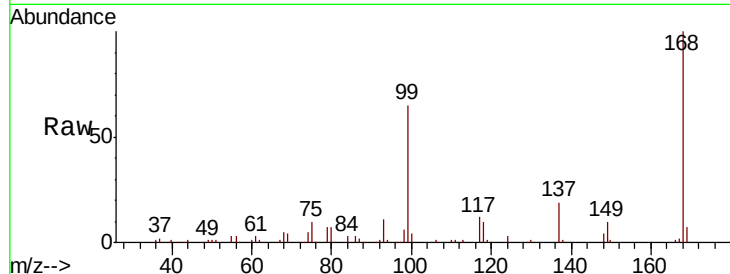




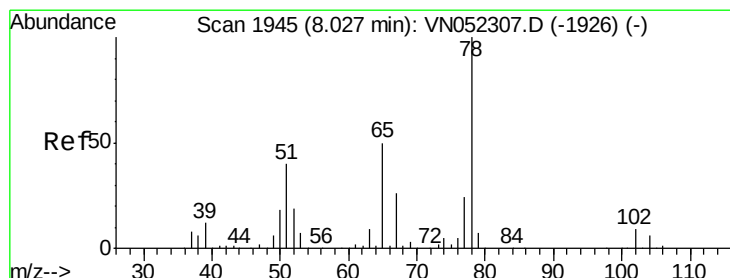
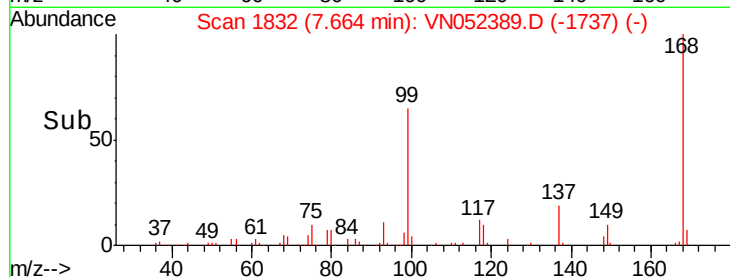
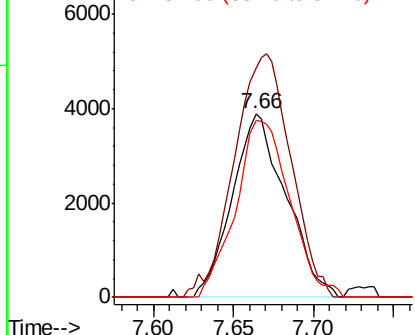
#31
Cyclohexane
Concen: 0.405 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052389.D
Acq: 19 Nov 2018 17:07

Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#05

Tot Ion: 56 Resp: 8940
Ion Ratio Lower Upper
56 100
69 124.9 23.8 35.8#
84 96.3 63.0 94.6#

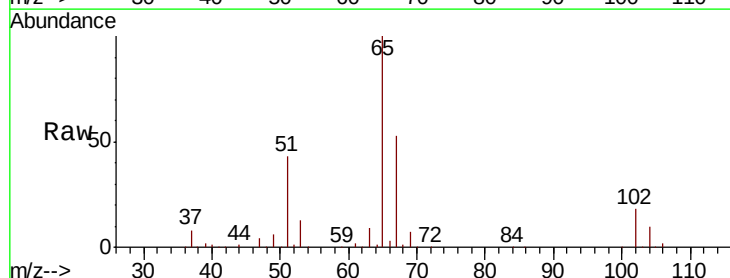


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

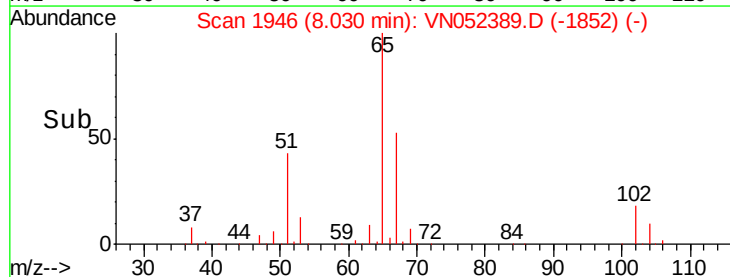
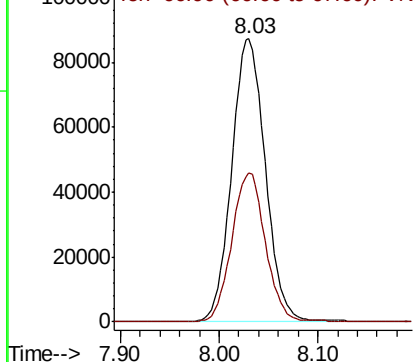


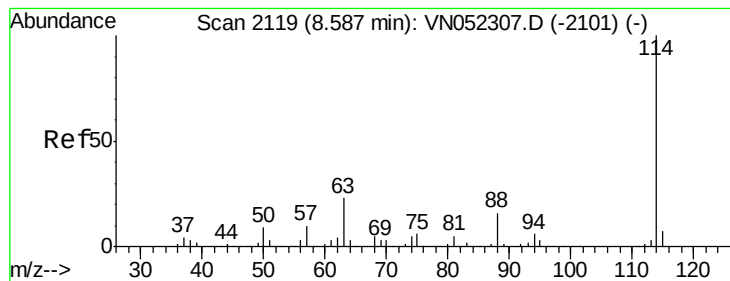
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN052389.D
Acq: 19 Nov 2018 17:07

Tgt Ion: 65 Resp: 206866
Ion Ratio Lower Upper
65 100
67 52.6 0.0 105.2



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: VN052389.D

Acq: 19 Nov 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#05

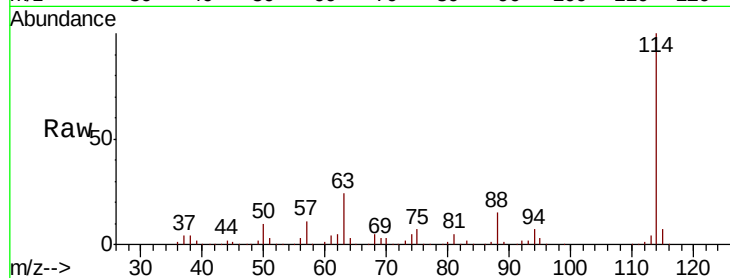
Tot Ion:114 Resp: 473730

Ion Ratio Lower Upper

114 100

63 23.6 0.0 45.4

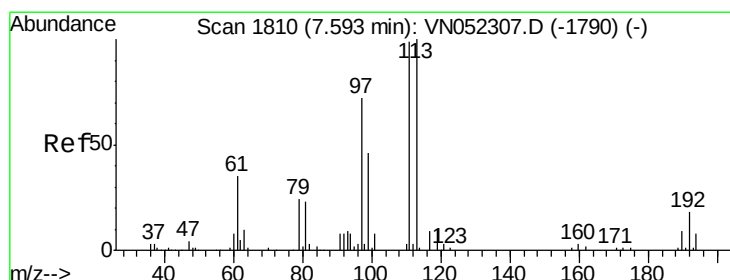
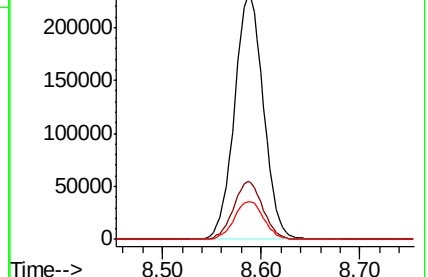
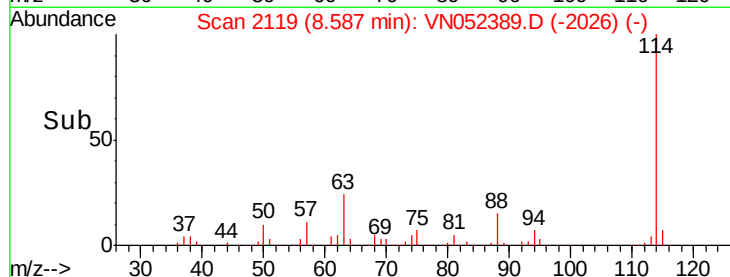
88 15.2 0.0 31.2



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: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN052389.D

Acq: 19 Nov 2018 17:07

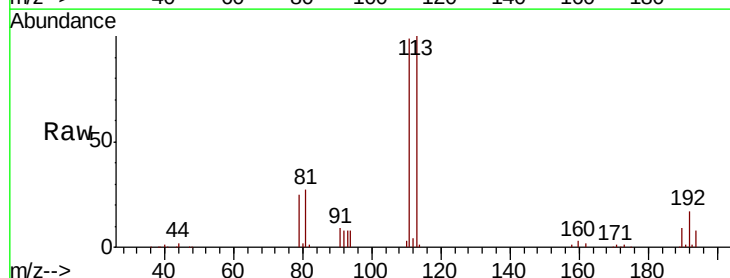
Tgt Ion:113 Resp: 156004

Ion Ratio Lower Upper

113 100

111 103.3 81.0 121.6

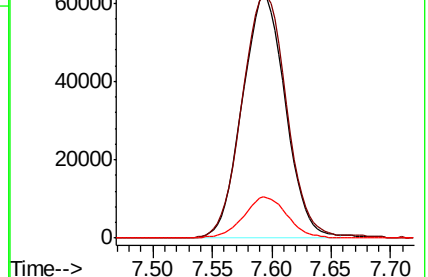
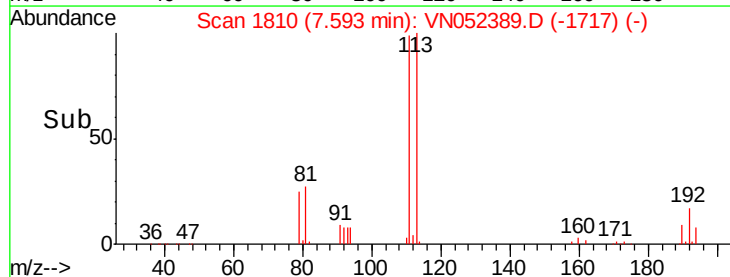
192 17.0 13.8 20.6

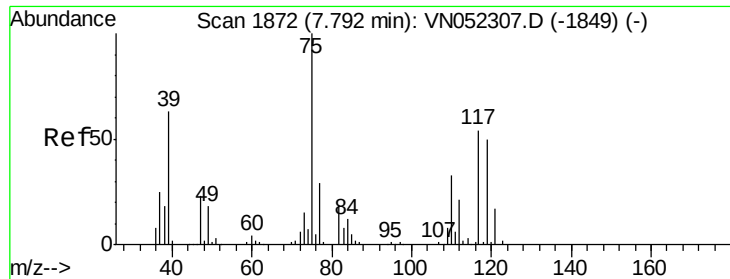


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

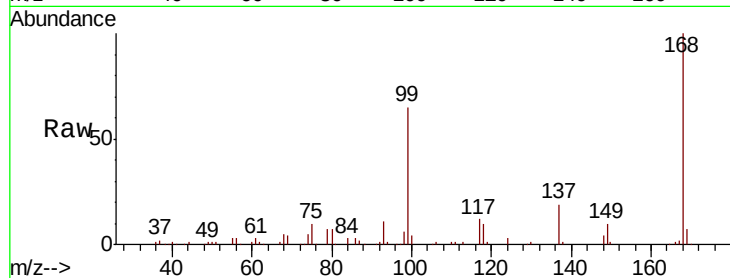




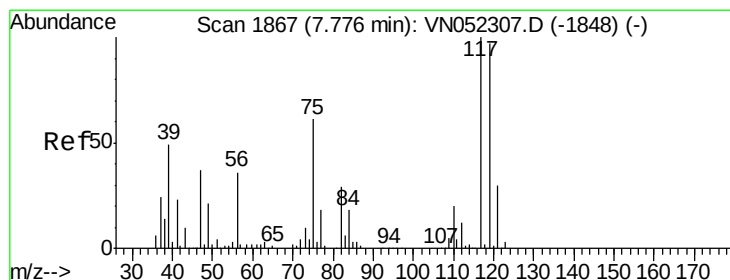
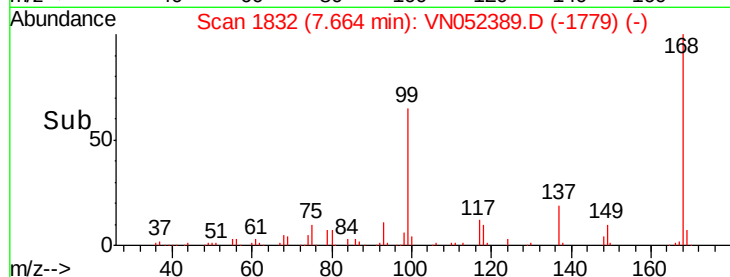
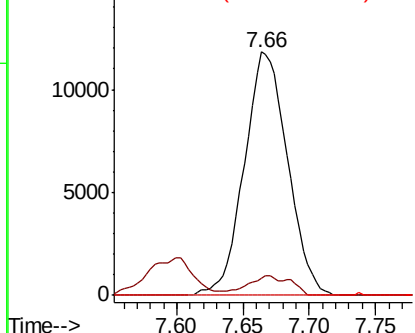
#36
 1,1-Dichloropropene
 Concen: 5.677 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN052389.D
 Acq: 19 Nov 2018 17:07

Instrument :
 MSVOA_N
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 PB114846ZHE#05

Tot Ion	Ratio	Lower	Upper
75	100		
110	4.3	16.5	49.5#
77	0.0	24.2	36.2#

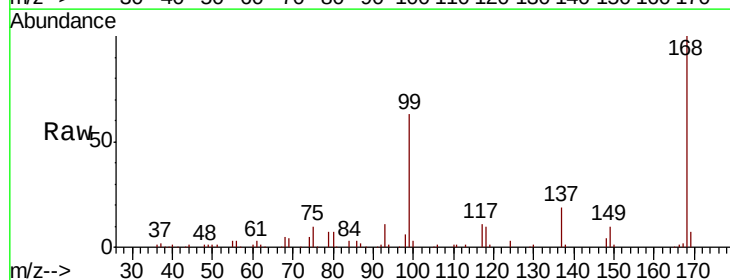


Abundance Ion 74.90 (74.60 to 75.60): VN052307.D (-1849) (-)
 Ion 109.90 (109.60 to 110.60): VN052307.D (-1849) (-)
 Ion 76.90 (76.60 to 77.60): VN052307.D (-1849) (-)

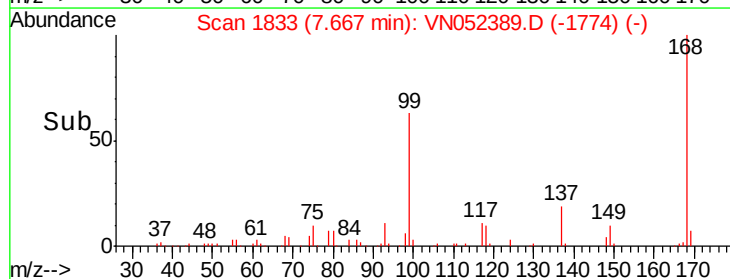
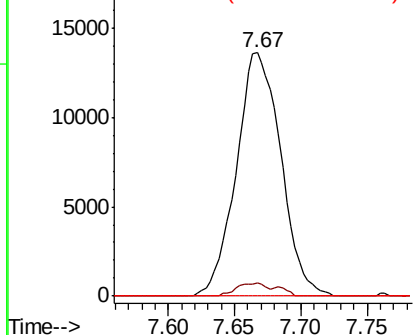


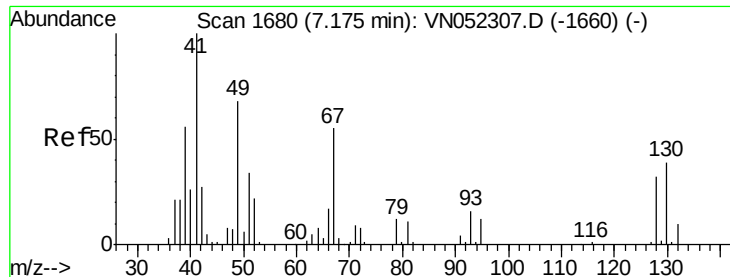
#38
 Carbon Tetrachloride
 Concen: 7.318 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN052389.D
 Acq: 19 Nov 2018 17:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	77.4	116.0#
121	0.0	24.0	36.0#



Abundance Ion 116.80 (116.50 to 117.50): VN052307.D (-1848) (-)
 Ion 118.80 (118.50 to 119.50): VN052307.D (-1848) (-)
 Ion 120.80 (120.50 to 121.50): VN052307.D (-1848) (-)

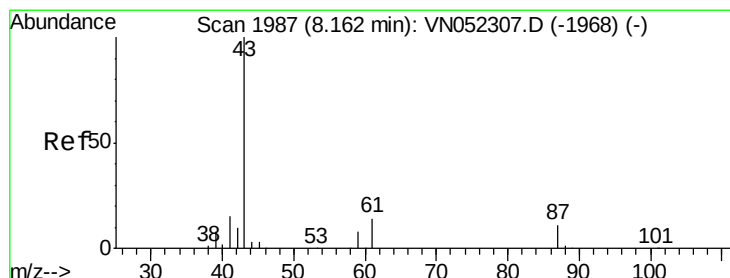
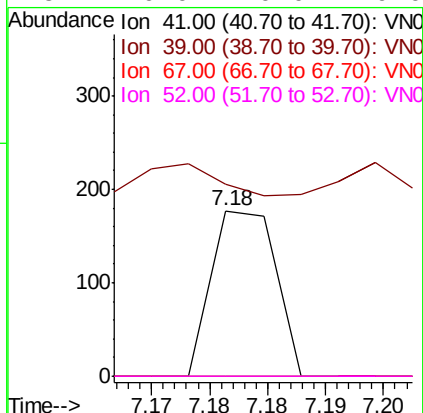
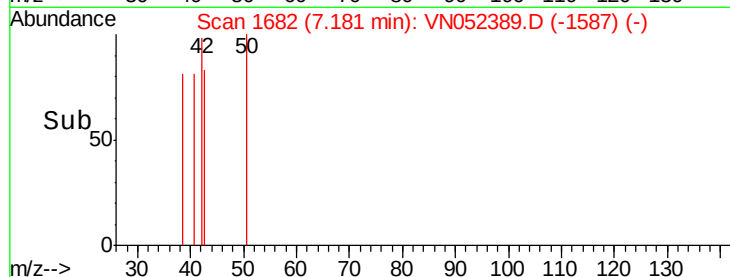
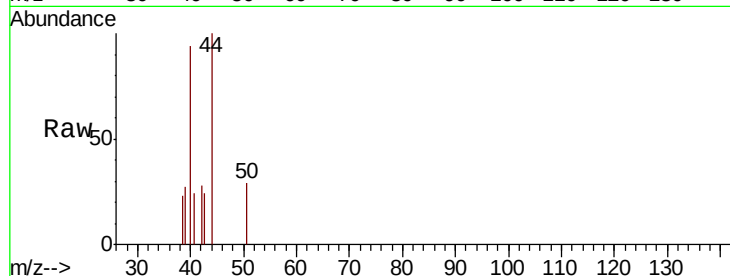




#41
Methacrylonitrile
Concen: 3.728 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.01 min
Lab File: VN052389.D
Acq: 19 Nov 2018 17:07

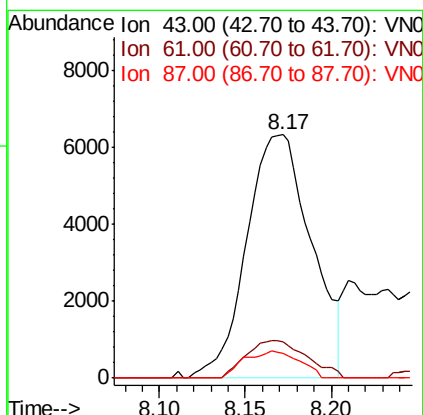
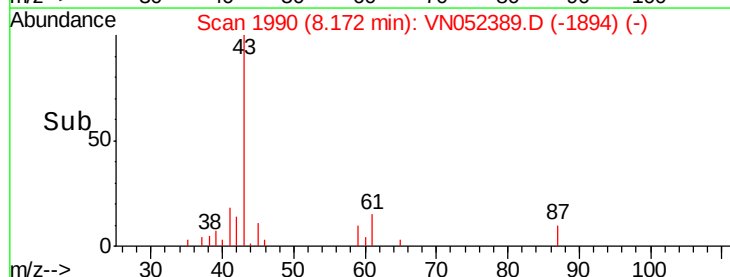
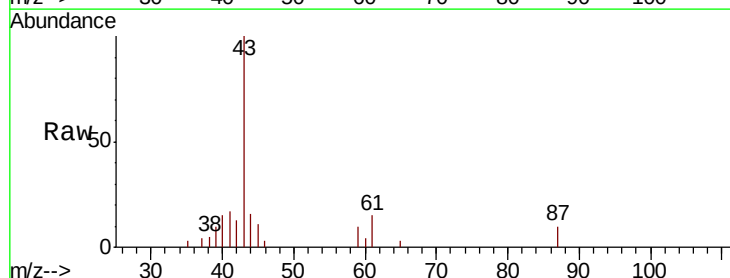
Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#05

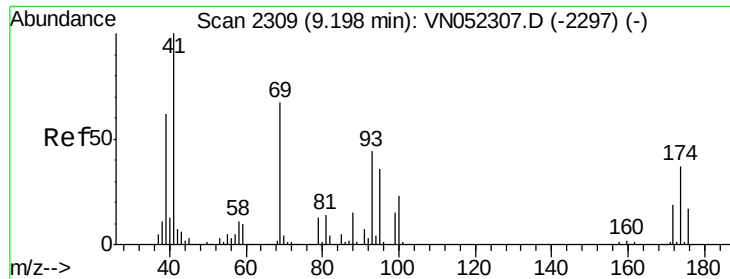
Tot Ion:	41	Resp:	67
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0



#43
Isopropyl Acetate
Concen: 2.486 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.01 min
Lab File: VN052389.D
Acq: 19 Nov 2018 17:07

Tgt Ion:	43	Resp:	16533
Ion	Ratio	Lower	Upper
43	100		
61	14.4	12.0	18.0
87	9.4	8.3	12.5

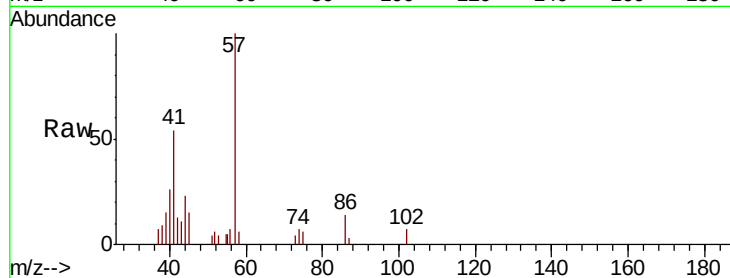




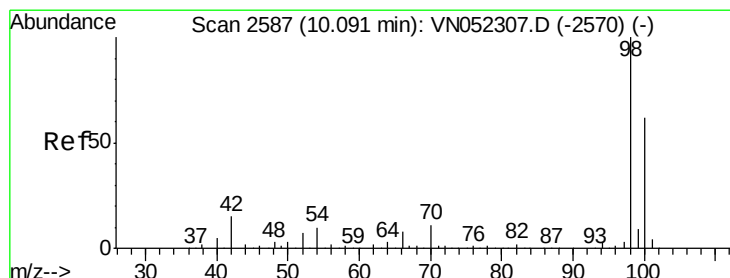
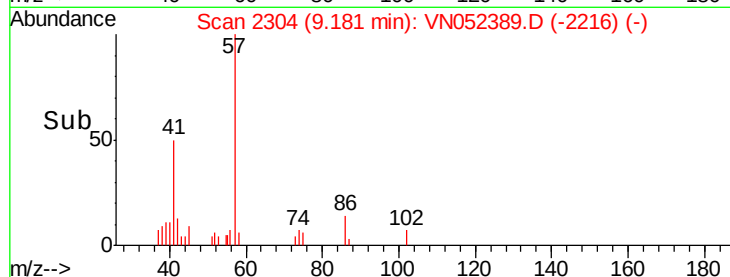
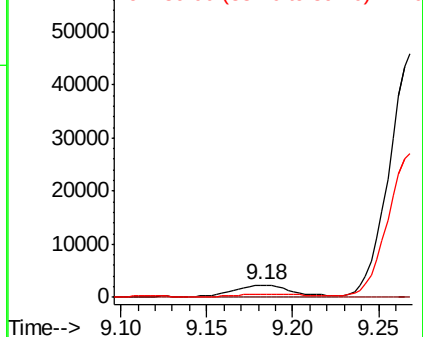
#48
Methyl methacrylate
Concen: 1.667 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052389.D
Acq: 19 Nov 2018 17:07

Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#05

Tot Ion: 41 Resp: 5626
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 29.5 52.5 78.7#

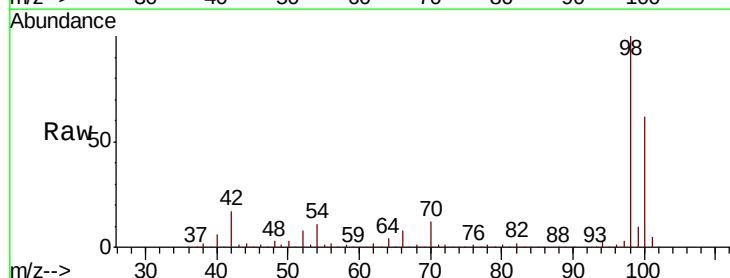


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

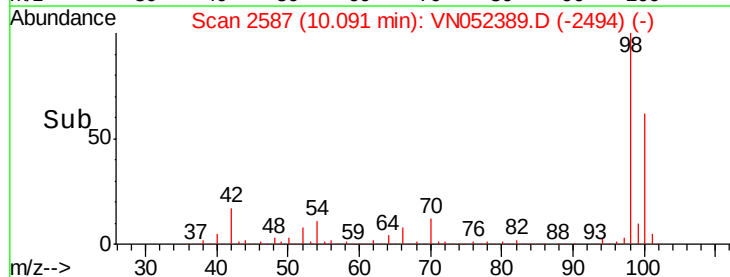
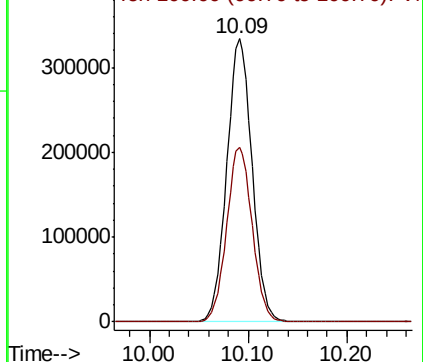


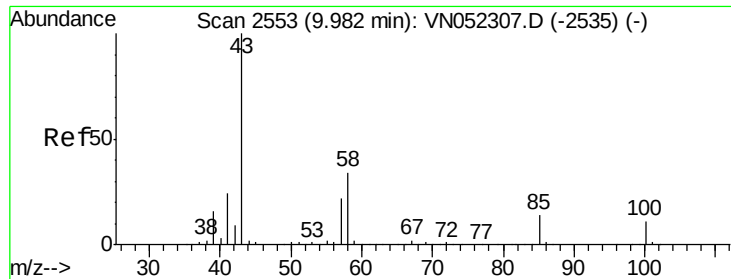
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052389.D
Acq: 19 Nov 2018 17:07

Tgt Ion: 98 Resp: 601290
Ion Ratio Lower Upper
98 100
100 62.2 49.5 74.3



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: 1.456 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN052389.D

Acq: 19 Nov 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

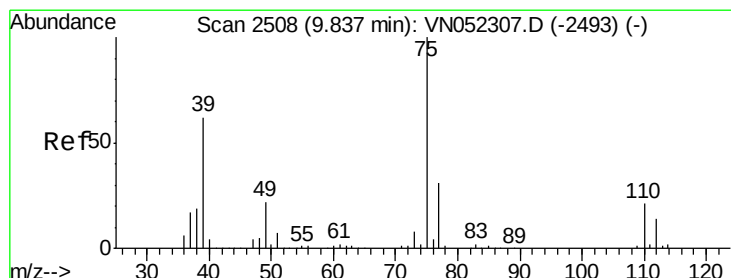
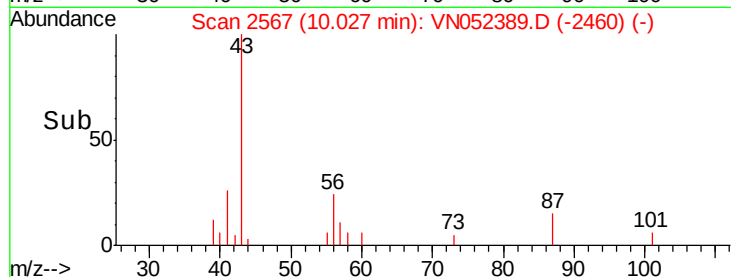
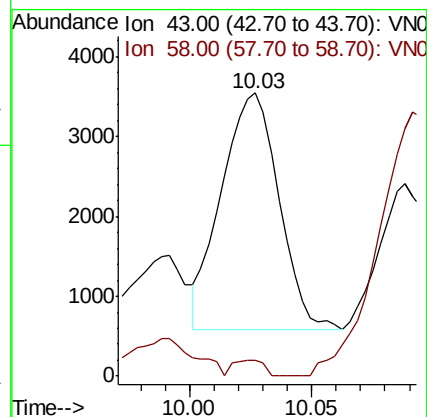
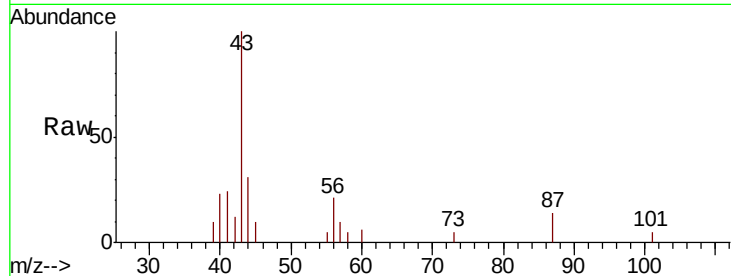
PB114846ZHE#05

Tot Ion: 43 Resp: 4873

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.6#



#54

cis-1,3-Dichloropropene

Concen: 5.903 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052389.D

Acq: 19 Nov 2018 17:07

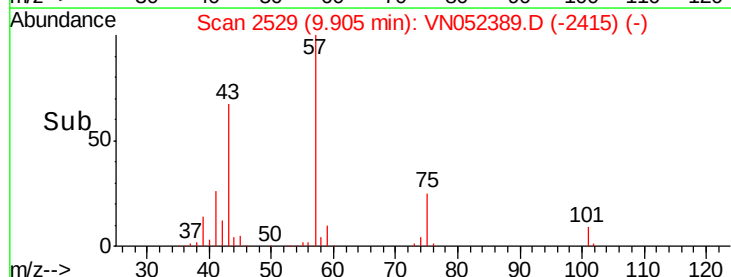
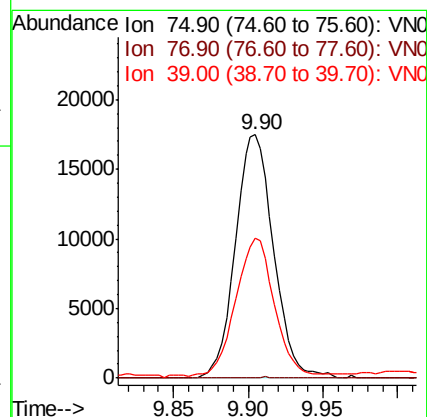
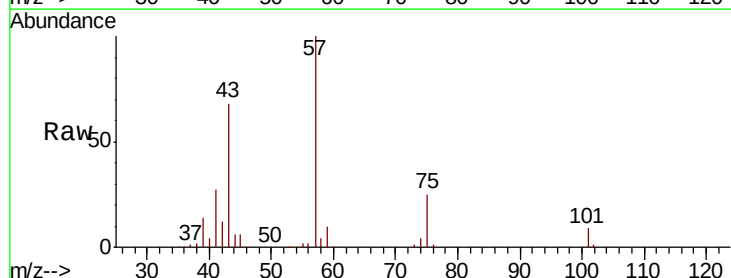
Tgt Ion: 75 Resp: 31038

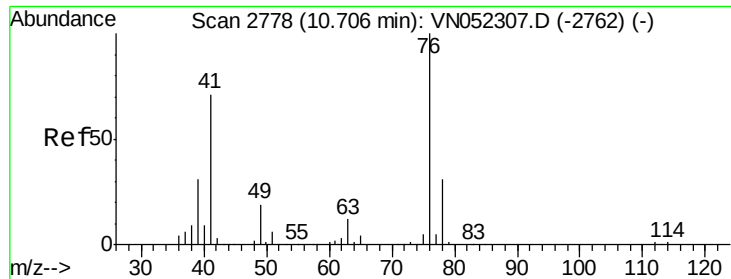
Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

39 56.4 49.9 74.9





#57

1,3-Dichloropropane

Concen: 1.285 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN052389.D

Acq: 19 Nov 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

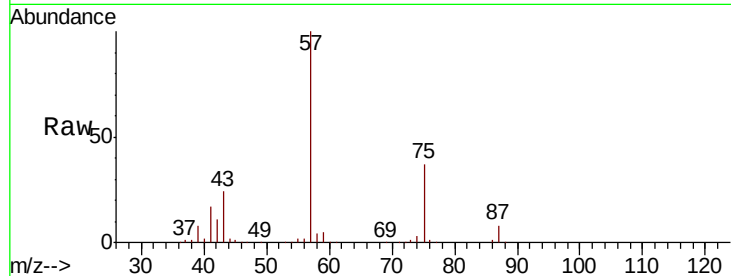
PB114846ZHE#05

Tot Ion: 76 Resp: 6697

Ion Ratio Lower Upper

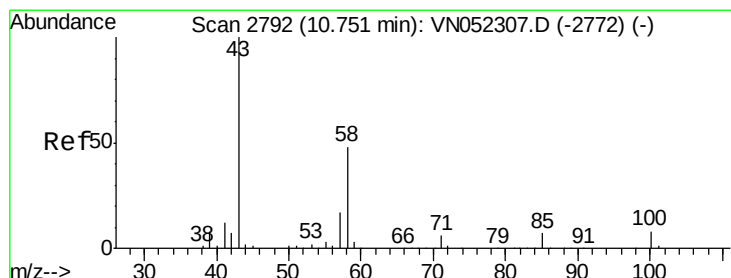
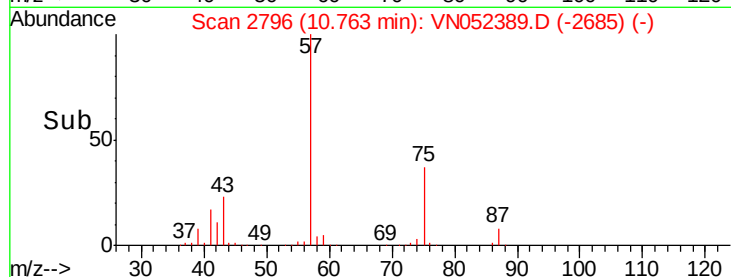
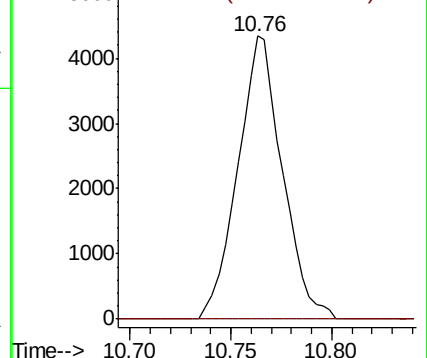
76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 49.363 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052389.D

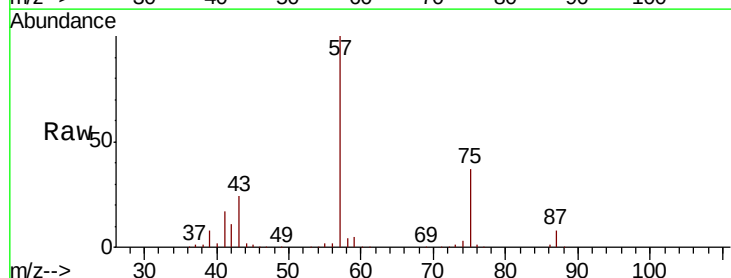
Acq: 19 Nov 2018 17:07

Tgt Ion: 43 Resp: 113648

Ion Ratio Lower Upper

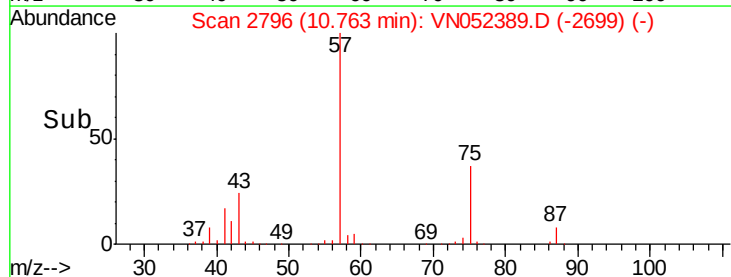
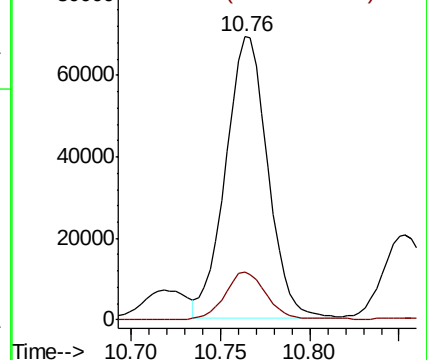
43 100

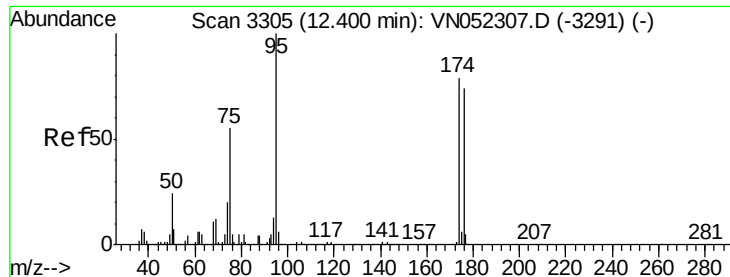
58 17.3 23.5 70.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052389.D

Acq: 19 Nov 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#05

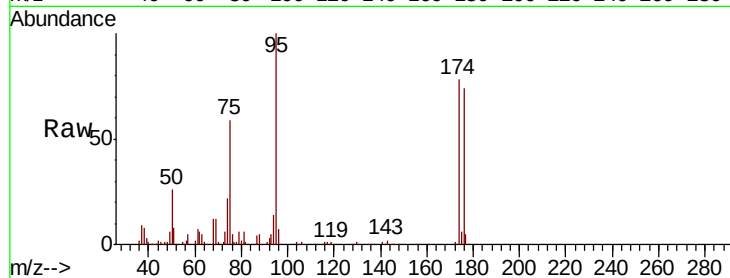
Tot Ion: 95 Resp: 175464

Ion Ratio Lower Upper

95 100

174 76.3 0.0 156.0

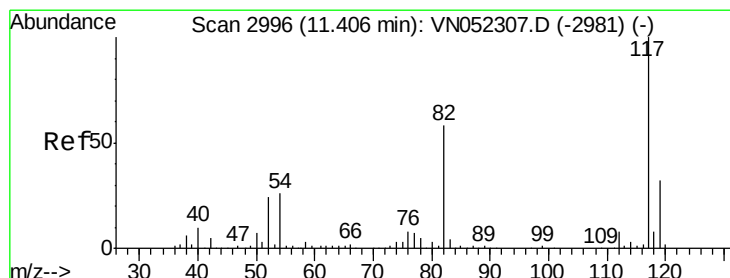
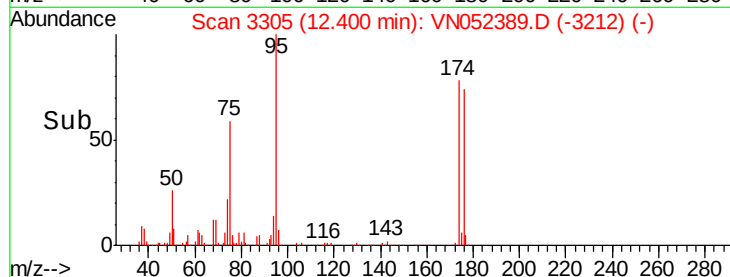
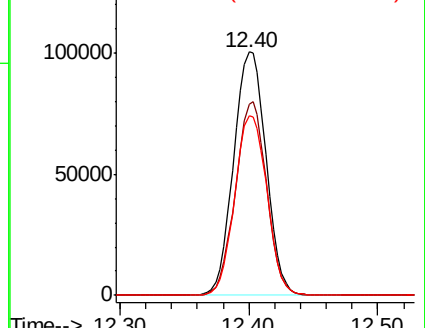
176 73.4 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052389.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052389.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN052389.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052389.D

Acq: 19 Nov 2018 17:07

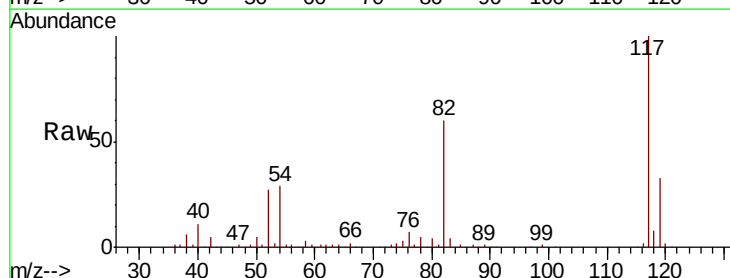
Tgt Ion: 117 Resp: 407754

Ion Ratio Lower Upper

117 100

82 59.6 46.5 69.7

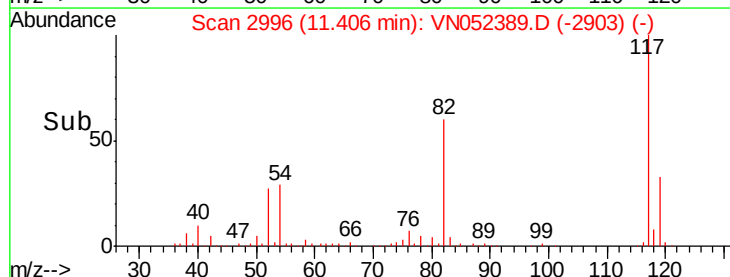
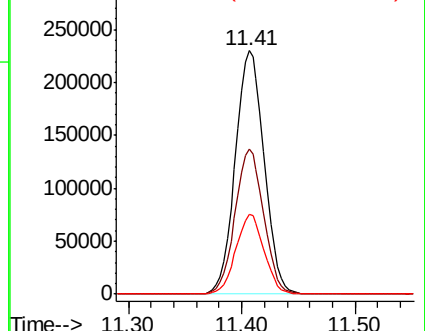
119 32.7 25.7 38.5

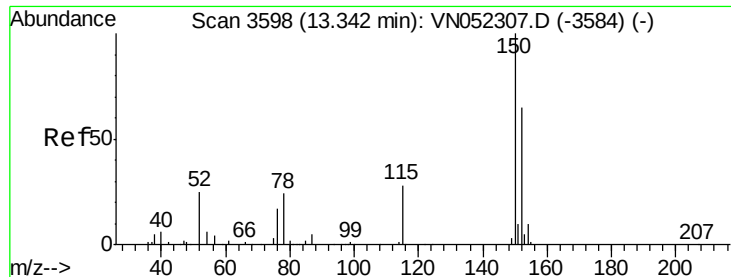


Abundance Ion 116.90 (116.60 to 117.60): VN052389.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052389.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052389.D (-2903) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052389.D

Acq: 19 Nov 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#05

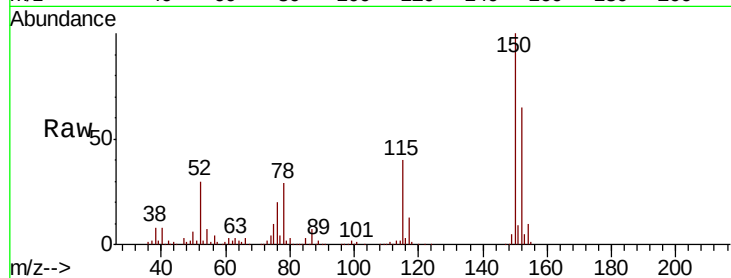
Tot Ion:152 Resp: 138058

Ion Ratio Lower Upper

152 100

115 61.1 30.3 91.0

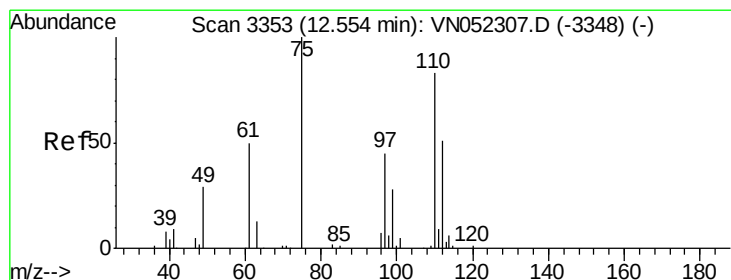
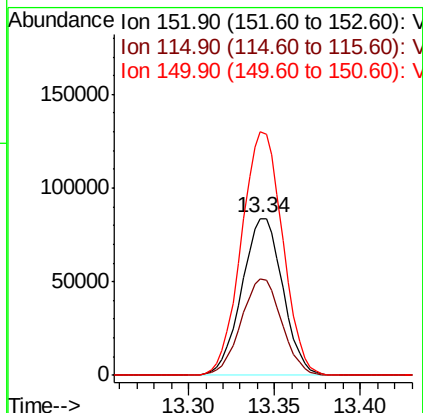
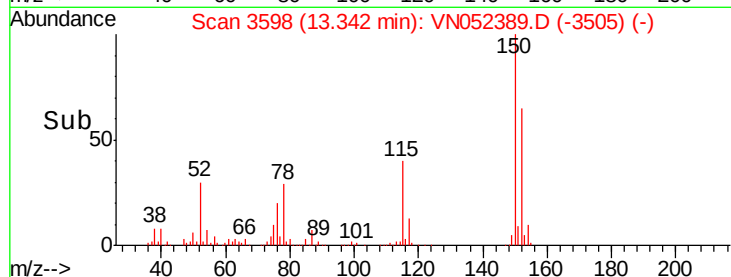
150 156.6 0.0 348.2



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: 43.900 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052389.D

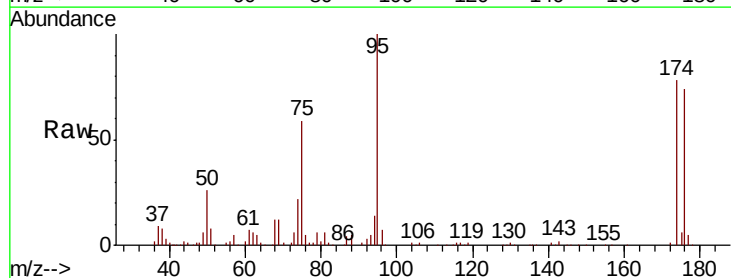
Acq: 19 Nov 2018 17:07

Tgt Ion: 75 Resp: 102839

Ion Ratio Lower Upper

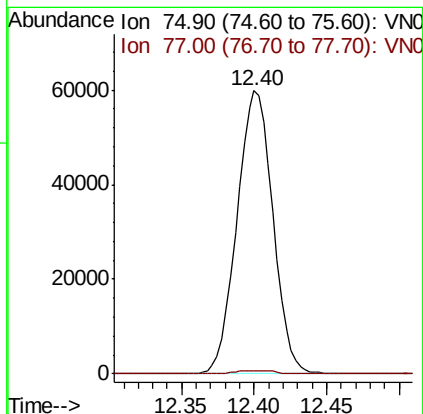
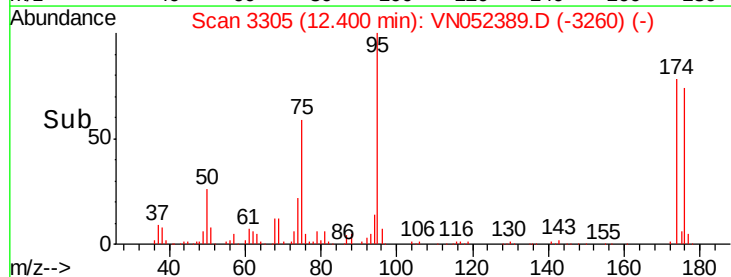
75 100

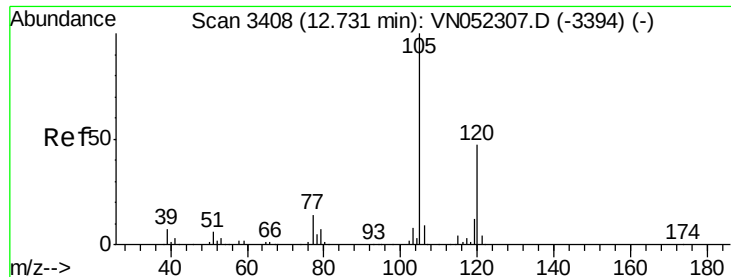
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.836 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN052389.D

Acq: 19 Nov 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

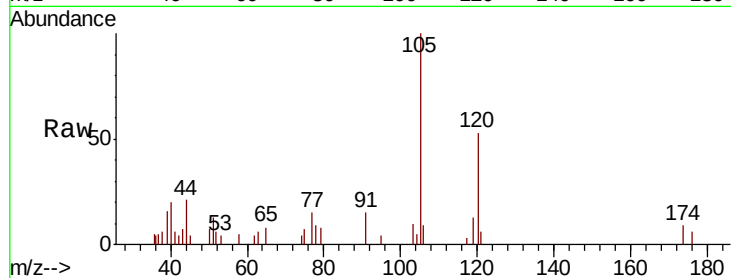
PB114846ZHE#05

Tot Ion:105 Resp: 7376

Ion Ratio Lower Upper

105 100

120 49.4 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

4000

3000

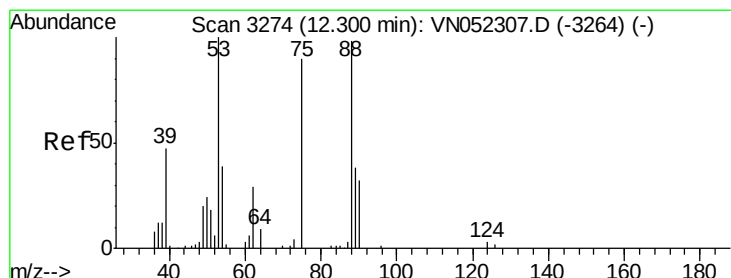
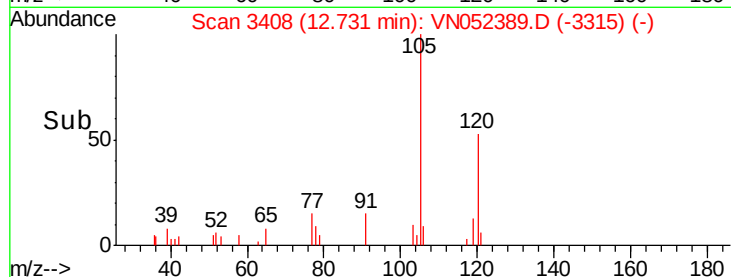
2000

1000

0

Time-->

12.70 12.75



#81

trans-1,4-Dichloro-2-butene

Concen: 142.384 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052389.D

Acq: 19 Nov 2018 17:07

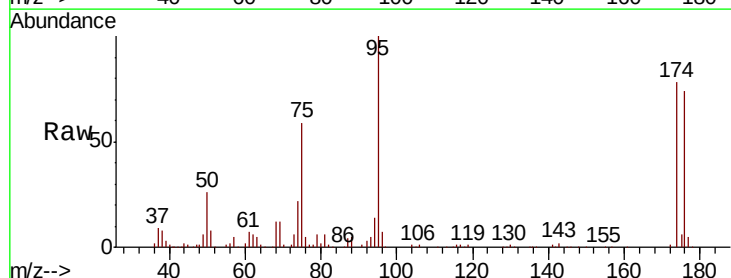
Tgt Ion: 75 Resp: 102839

Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

89 0.0 35.4 53.0#



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

80000

60000

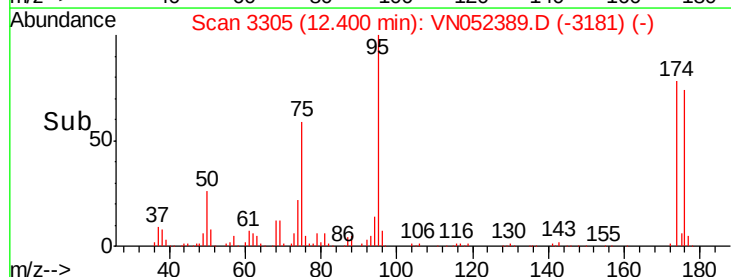
40000

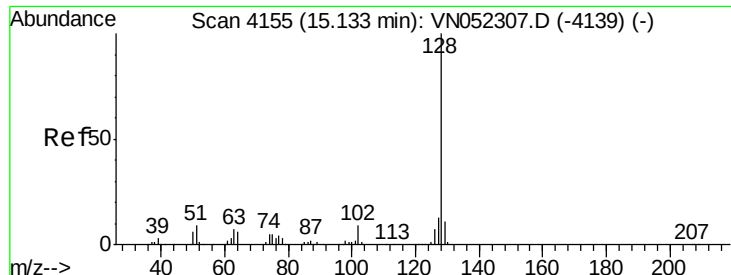
20000

0

Time-->

12.35 12.40 12.45





#95

Naphthalene

Concen: 2.610 ug/l

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN052389.D

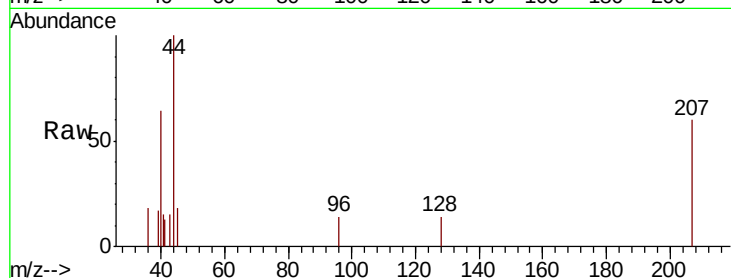
Acq: 19 Nov 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#05



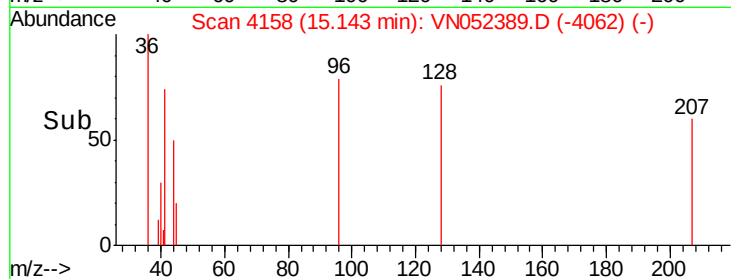
Tot Ion:128 Resp: 30

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.6 13.0#



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

