

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112118\
 Data File : VN052432.D
 Acq On : 21 Nov 2018 12:31
 Operator : MD\SY
 Sample : PB114992ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 21 23:56:36 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	312569	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	529162	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	457728	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	156789	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	237821	53.87	ug/l	0.00
Spiked Amount						
35) Dibromofluoromethane	7.59	113	174091	51.01	ug/l	0.00
Spiked Amount						
50) Toluene-d8	10.09	98	670868	49.97	ug/l	0.00
Spiked Amount						
62) 4-Bromofluorobenzene	12.40	95	200305	45.35	ug/l	0.00
Spiked Amount						

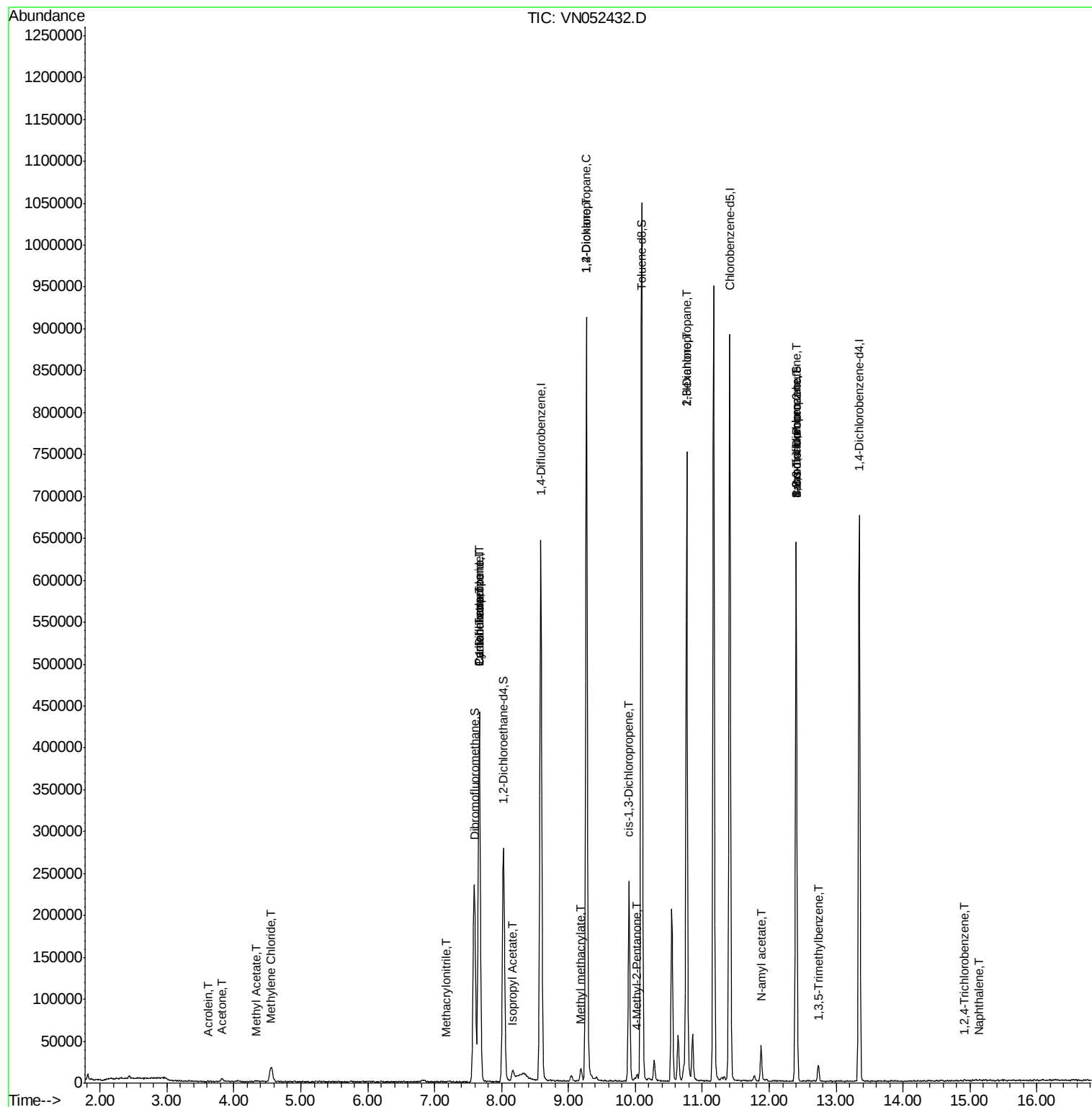
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	94	22.014	ug/l	95
16) Acetone	3.82	43	6135	5.047	ug/l	91
18) Methyl Acetate	4.34	43	1467	0.859	ug/l #	57
20) Methylene Chloride	4.55	84	11784	2.522	ug/l	89
31) Cyclohexane	7.66	56	10537	0.520	ug/l #	42
36) 1,1-Dichloropropene	7.67	75	29546	5.571	ug/l #	52
38) Carbon Tetrachloride	7.66	117	33872	6.951	ug/l #	16
41) Methacrylonitrile	7.18	41	95	3.737	ug/l #	100
43) Isopropyl Acetate	8.17	43	18276	2.461	ug/l #	97
45) 1,2-Dichloropropane	9.27	63	1338	0.311	ug/l #	44
48) Methyl methacrylate	9.18	41	6181	1.640	ug/l #	16
49) 1,4-Dioxane	9.26	88	63	2.178	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	6282	1.680	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	35049	5.968	ug/l #	74
57) 1,3-Dichloropropane	10.77	76	7101	1.220	ug/l #	43
59) 2-Hexanone	10.77	43	127875	49.724	ug/l #	54
71) Bromoform	12.40	173	1464	0.752	ug/l #	1
74) N-amyl acetate	11.88	43	15070	3.356	ug/l #	58
76) 1,2,3-Trichloropropane	12.40	75	117269	44.079	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	9700	0.968	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	117269	142.966	ug/l #	5
93) 1,2,4-Trichlorobenzene	14.91	180	318	2.386	ug/l #	30
95) Naphthalene	15.14	128	625	2.711	ug/l #	69

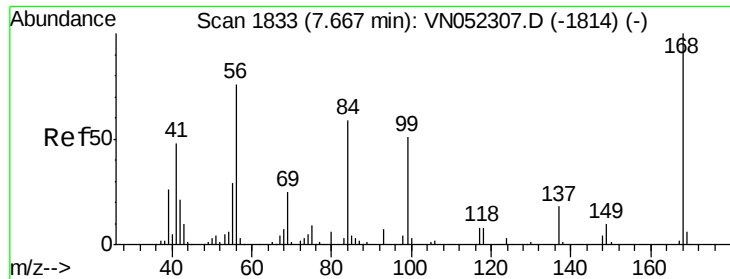
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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# 1833

Delta R.T. -0.00 min

Lab File: VN052432.D

Acq: 21 Nov 2018 12:31

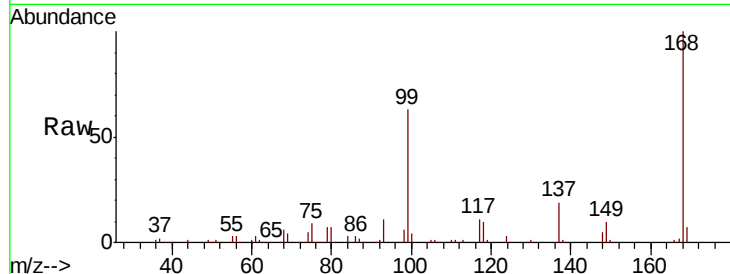
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 312569

Ion Ratio Lower Upper

168 100

99 63.4 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

150000

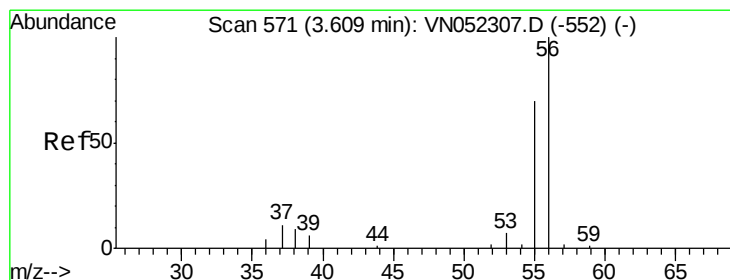
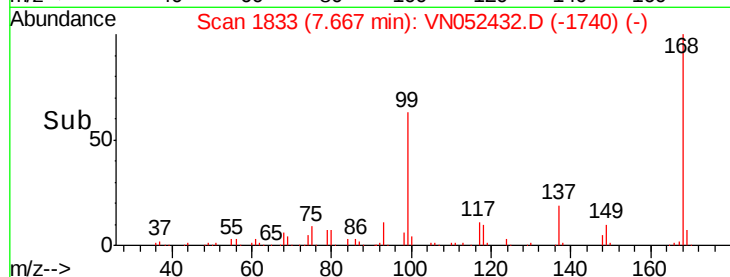
100000

50000

0

Time-->

7.60 7.70 7.80



#13

Acrolein

Concen: 22.014 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN052432.D

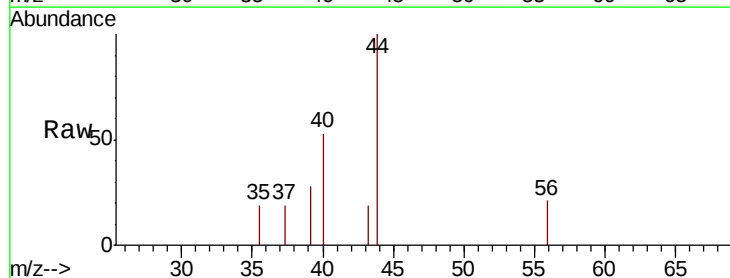
Acq: 21 Nov 2018 12:31

Tgt Ion: 56 Resp: 94

Ion Ratio Lower Upper

56 100

55 68.1 57.6 86.4



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.62

200

150

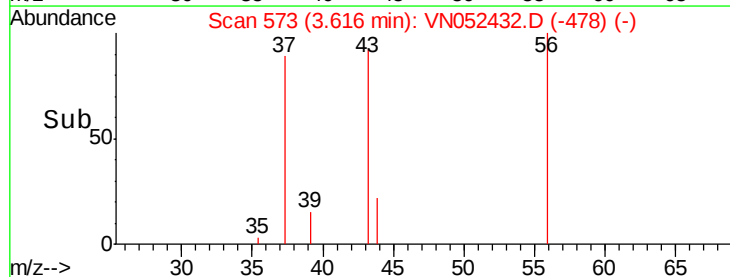
100

50

0

Time-->

3.60 3.61 3.62 3.63

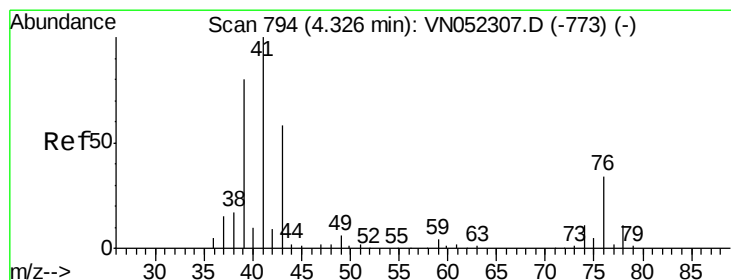
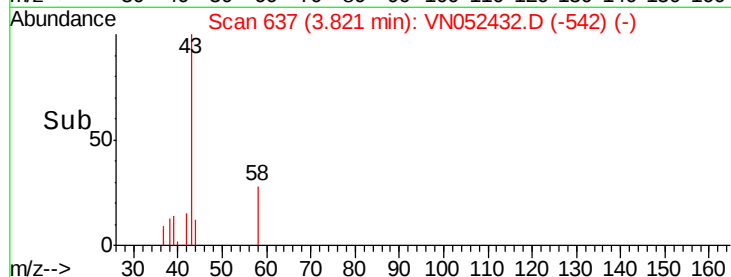
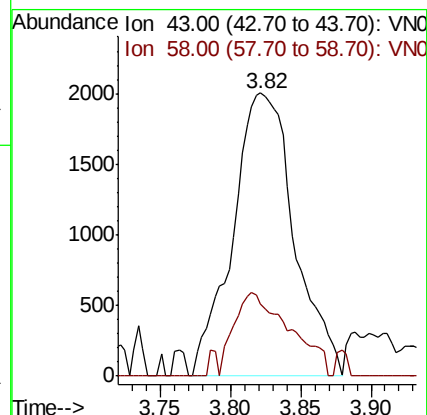
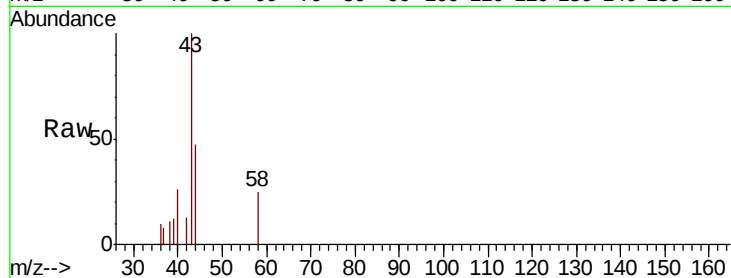




#16
Acetone
Concen: 5.047 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.01 min
Lab File: VN052432.D
Acq: 21 Nov 2018 12:31

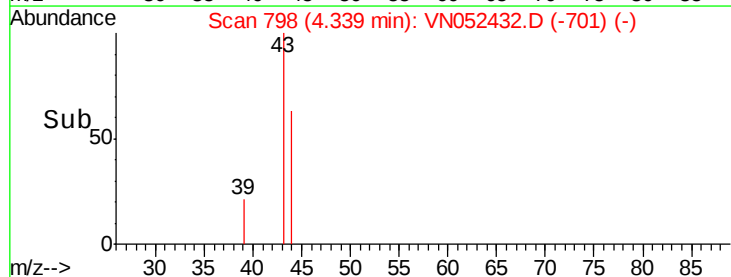
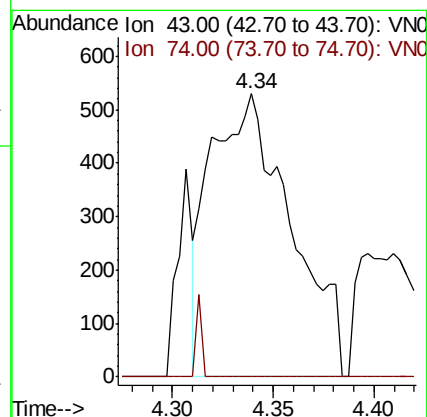
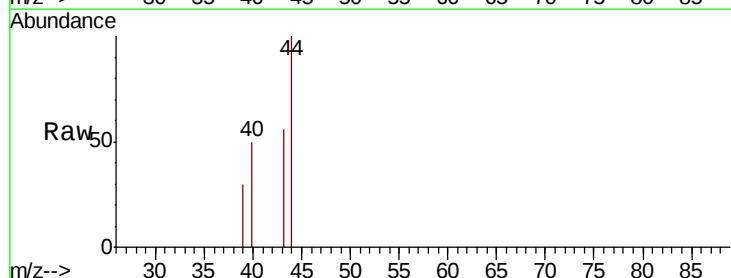
Instrument :
MSVOA_N
ClientSampled :

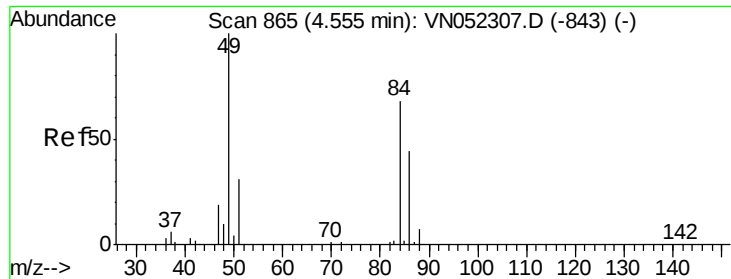
Tot Ion: 43 Resp: 6135
Ion Ratio Lower Upper
43 100
58 25.4 24.2 36.4



#18
Methyl Acetate
Concen: 0.859 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN052432.D
Acq: 21 Nov 2018 12:31

Tgt Ion: 43 Resp: 1467
Ion Ratio Lower Upper
43 100
74 0.0 15.9 23.9#

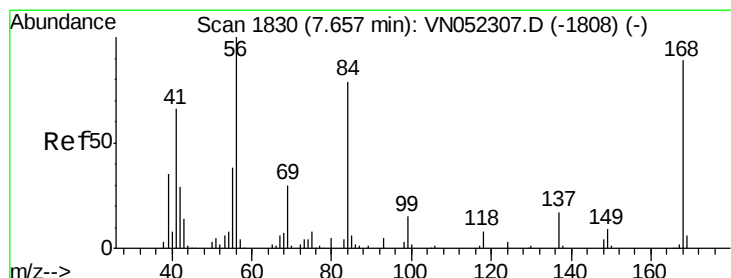
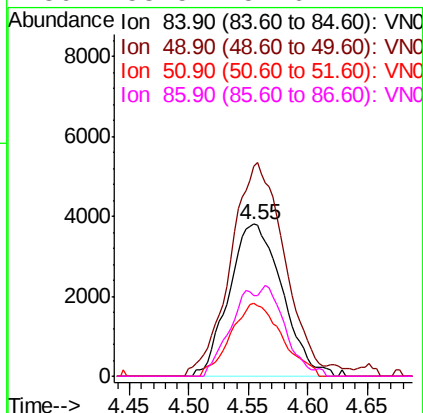
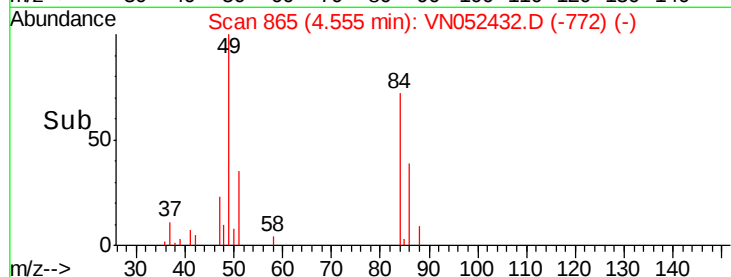
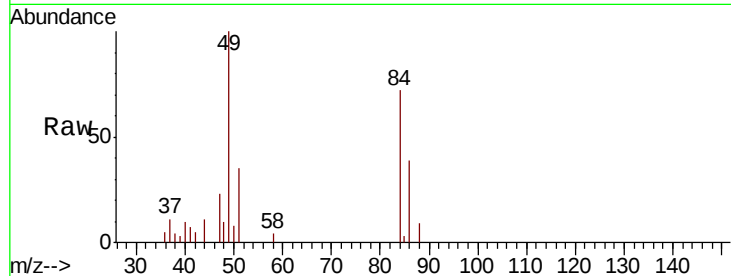




#20
Methvlene Chloride
Concen: 2.522 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN052432.D
Acq: 21 Nov 2018 12:31

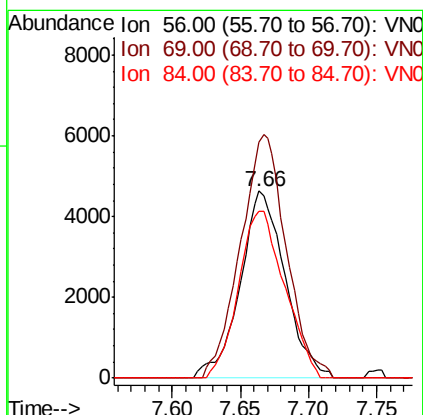
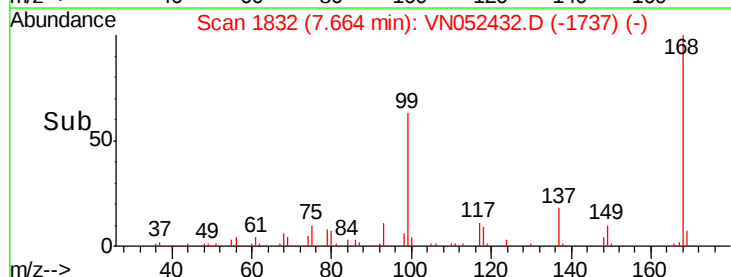
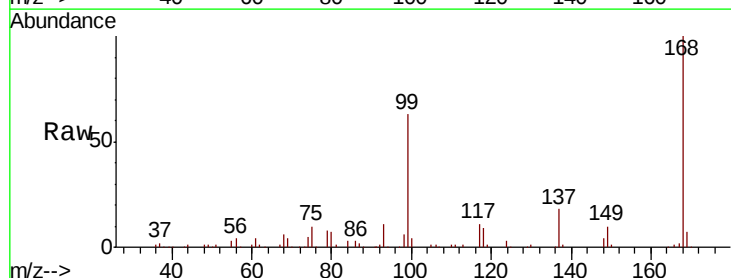
Instrument :
MSVOA_N
ClientSampleId :

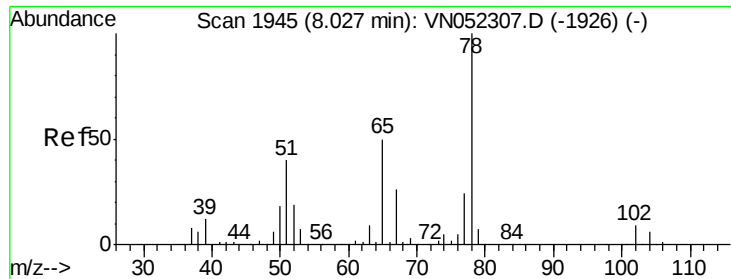
Tot Ion: 84 Resp: 11784
Ion Ratio Lower Upper
84 100
49 133.7 118.2 177.2
51 48.4 36.1 54.1
86 53.5 51.6 77.4



#31
Cyclohexane
Concen: 0.520 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052432.D
Acq: 21 Nov 2018 12:31

Tgt Ion: 56 Resp: 10537
Ion Ratio Lower Upper
56 100
69 126.2 23.8 35.8#
84 89.7 63.0 94.6

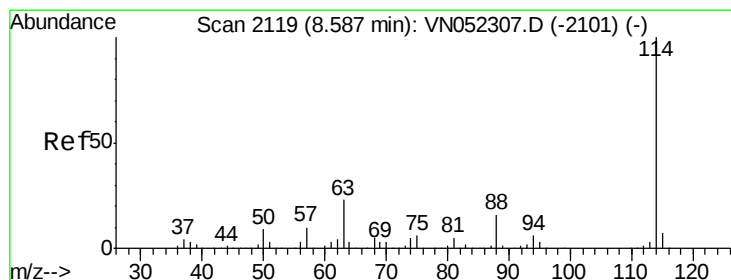
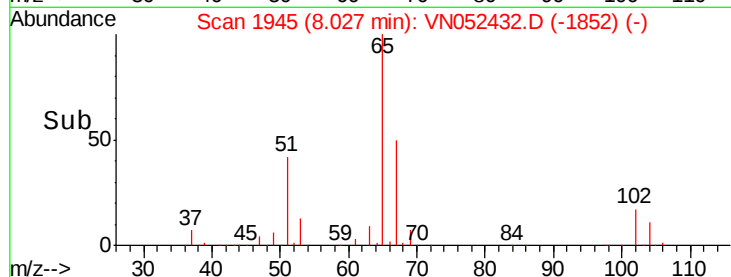
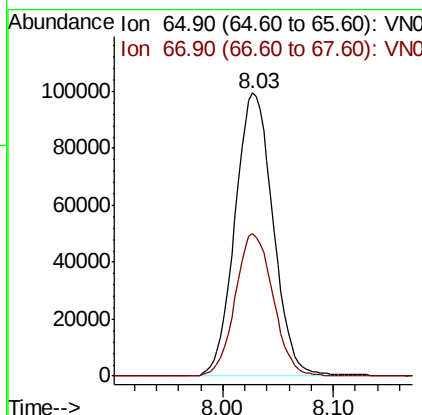
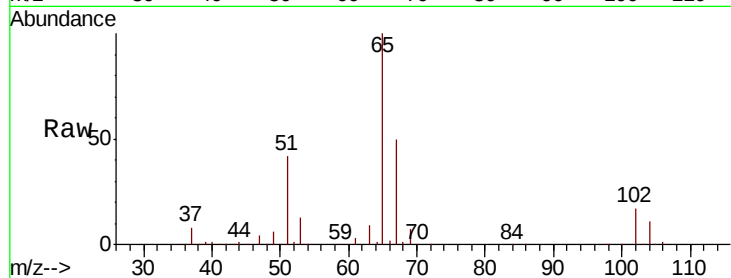




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052432.D
 Acq: 21 Nov 2018 12:31

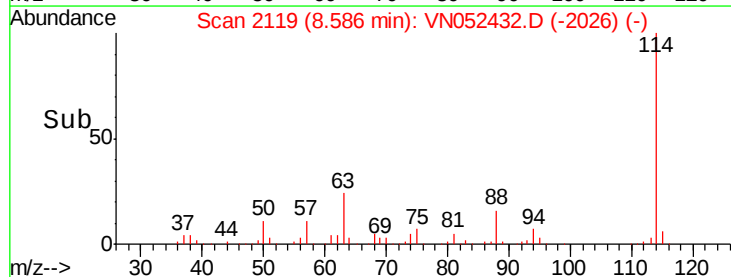
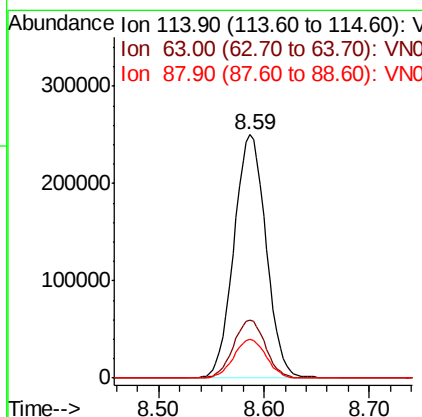
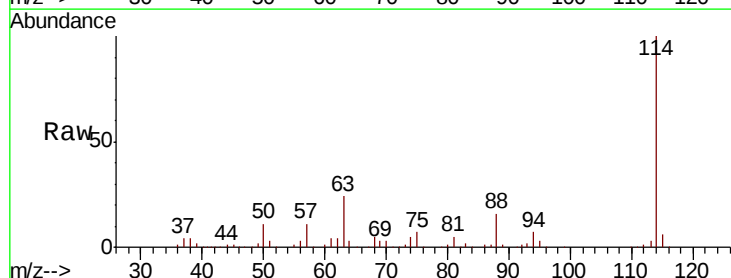
Instrument :
 MSVOA_N
 ClientSampleId :

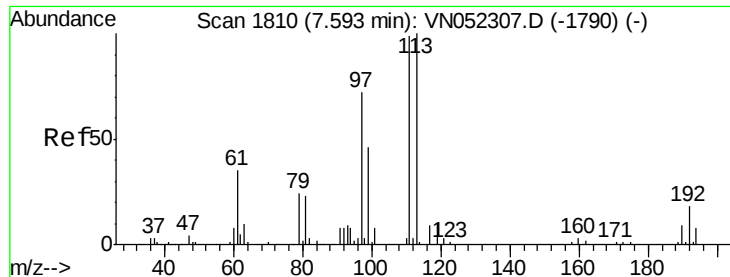
Tot Ion: 65 Resp: 237821
 Ion Ratio Lower Upper
 65 100
 67 50.1 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052432.D
 Acq: 21 Nov 2018 12:31

Tgt Ion: 114 Resp: 529162
 Ion Ratio Lower Upper
 114 100
 63 24.0 0.0 45.4
 88 15.8 0.0 31.2





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN052432.D

Acq: 21 Nov 2018 12:31

Instrument :
MSVOA_N
ClientSampled :

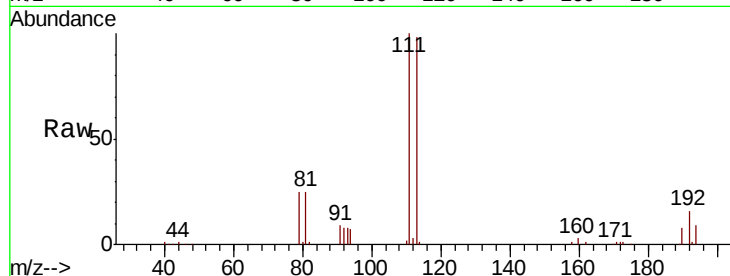
Tot Ion:113 Resp: 174091

Ion Ratio Lower Upper

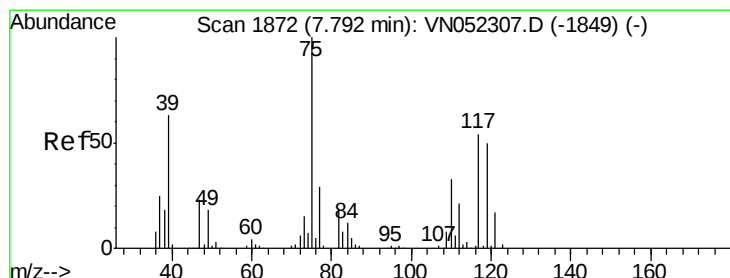
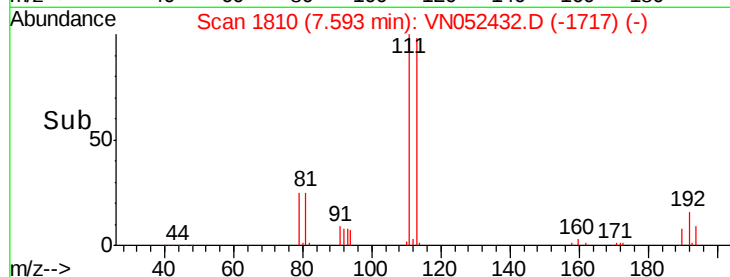
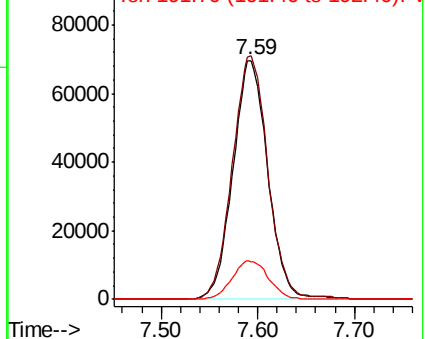
113 100

111 104.2 81.0 121.6

192 16.9 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: 5.571 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052432.D

Acq: 21 Nov 2018 12:31

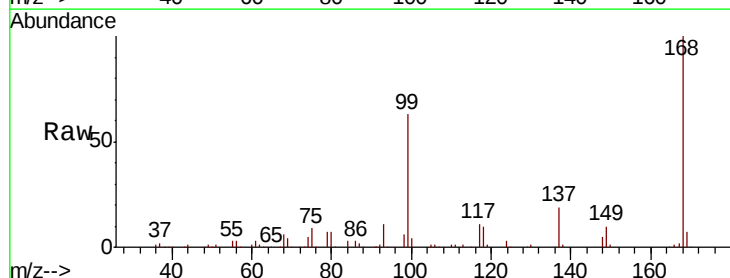
Tgt Ion: 75 Resp: 29546

Ion Ratio Lower Upper

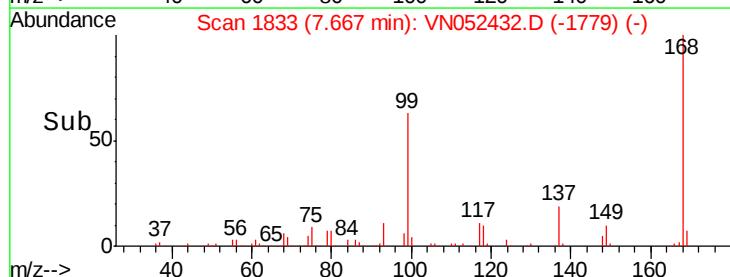
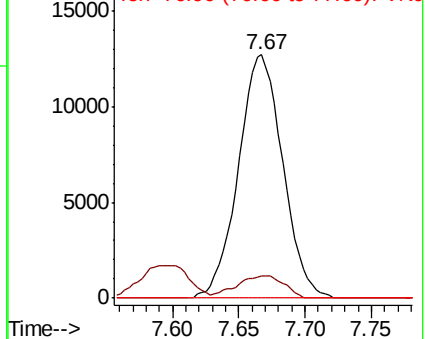
75 100

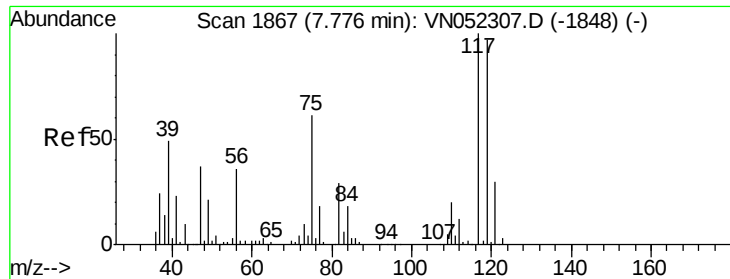
110 9.9 16.5 49.5#

77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.951 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN052432.D

Acq: 21 Nov 2018 12:31

Instrument :

MSVOA_N

ClientSampleId :

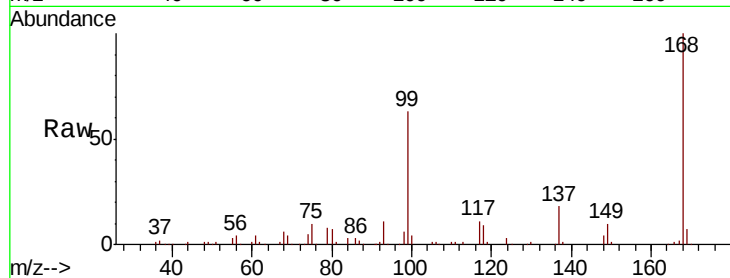
Tot Ion:117 Resp: 33872

Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

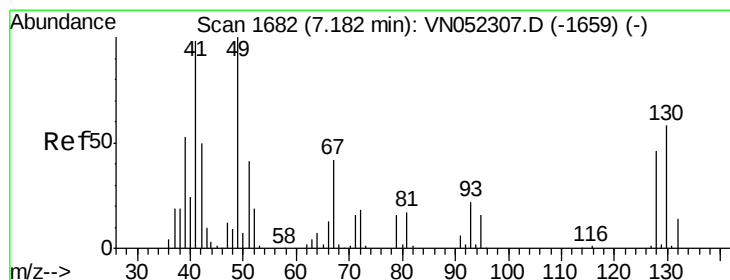
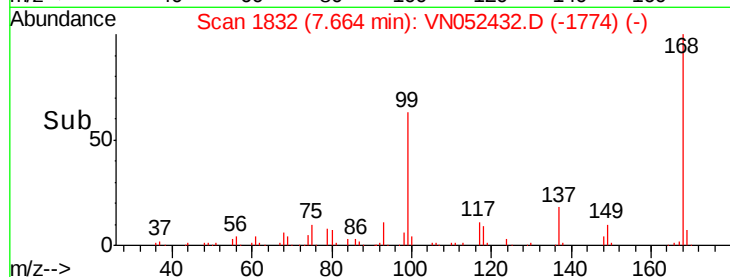
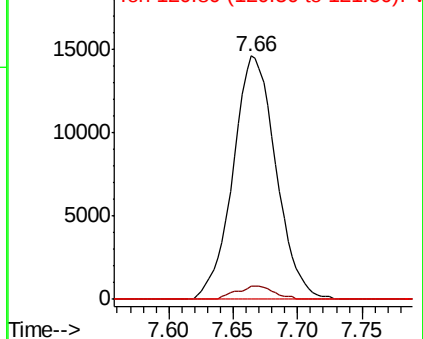
121 0.0 24.0 36.0#



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: 3.737 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN052432.D

Acq: 21 Nov 2018 12:31

Tgt Ion: 41 Resp: 95

Ion Ratio Lower Upper

41 100

39 336.8 0.0 0.0#

67 0.0 0.0 0.0

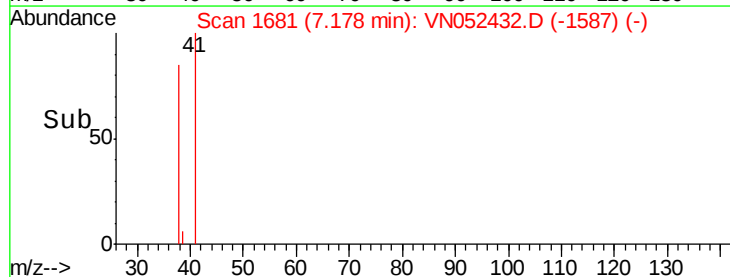
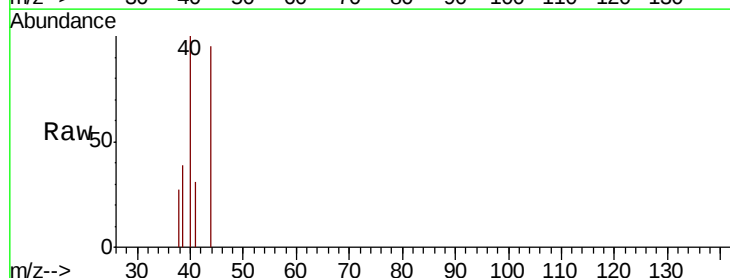
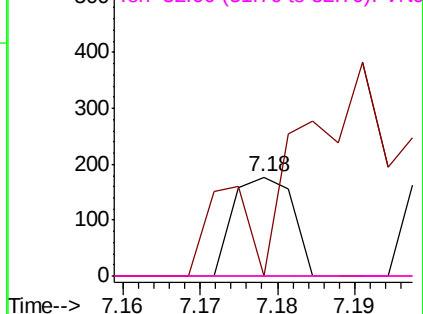
52 0.0 0.0 0.0

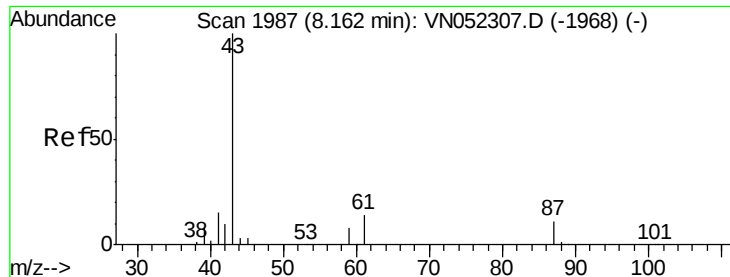
Abundance Ion 41.00 (40.70 to 41.70): VNC

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: 2.461 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052432.D

Acq: 21 Nov 2018 12:31

Instrument :

MSVOA_N

ClientSampleId :

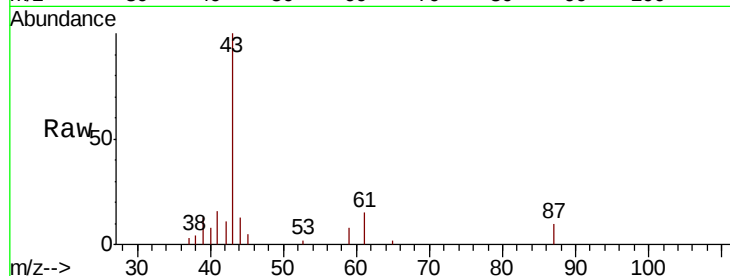
Tot Ion: 43 Resp: 18276

Ion Ratio Lower Upper

43 100

61 15.1 12.0 18.0

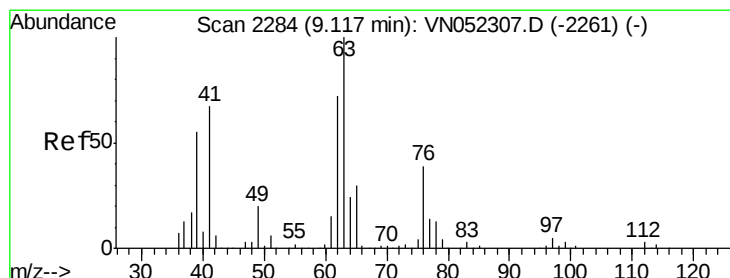
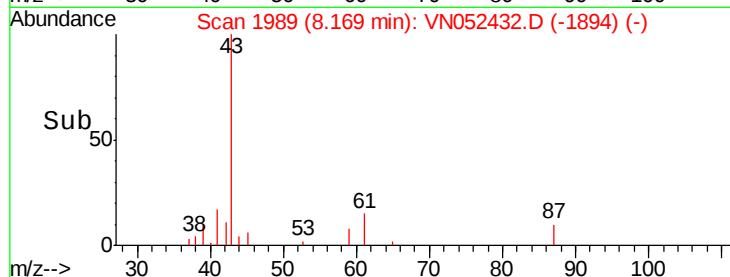
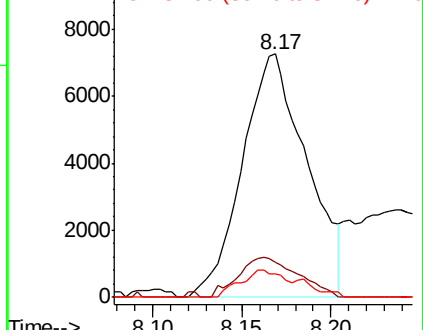
87 7.6 8.3 12.5#



Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN052307.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN052307.D (-1968) (-)



#45

1,2-Dichloropropane

Concen: 0.311 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN052432.D

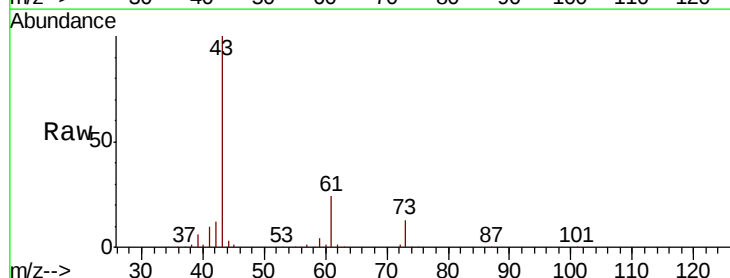
Acq: 21 Nov 2018 12:31

Tgt Ion: 63 Resp: 1338

Ion Ratio Lower Upper

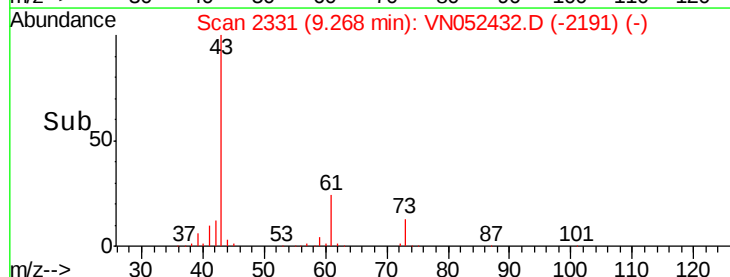
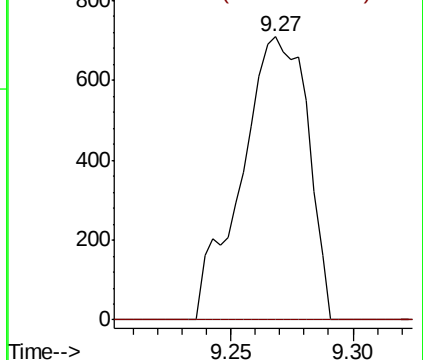
63 100

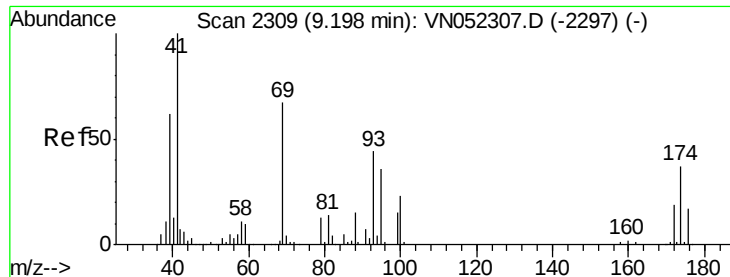
65 0.0 24.2 36.4#



Abundance Ion 62.90 (62.60 to 63.60): VN052307.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN052307.D (-2261) (-)

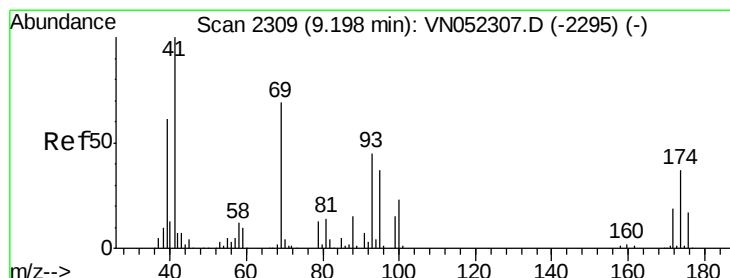
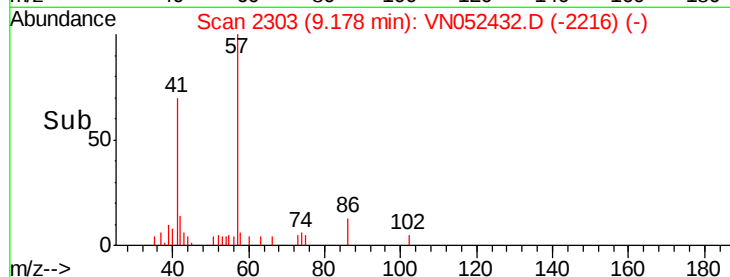
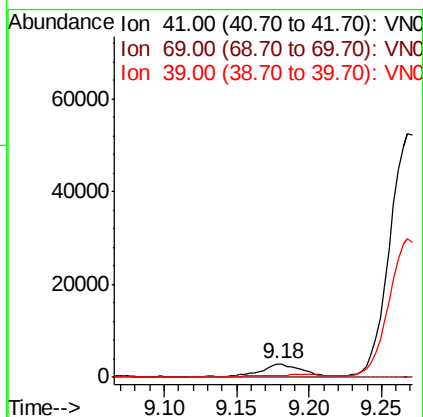
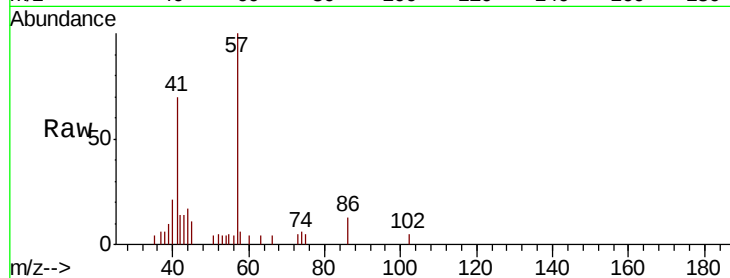




#48
Methvl methacrylate
Concen: 1.640 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052432.D
Acq: 21 Nov 2018 12:31

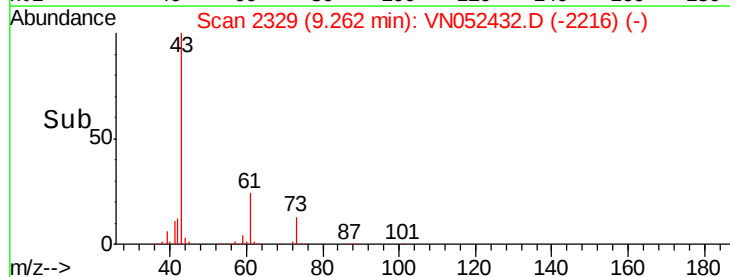
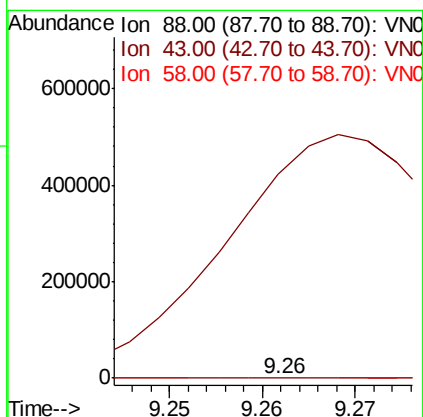
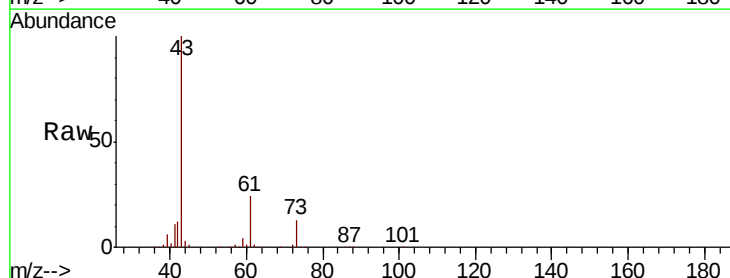
Instrument :
MSVOA_N
ClientSampleId :

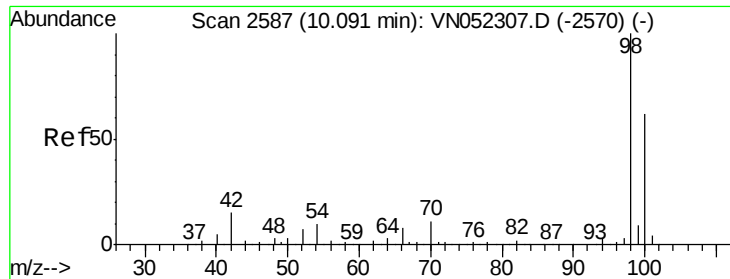
Tot Ion: 41 Resp: 6181
Ion Ratio Lower Upper
41 100
69 0.5 57.1 85.7#
39 0.0 52.5 78.7#



#49
1,4-Dioxane
Concen: 2.178 ug/l
RT: 9.26 min Scan# 2329
Delta R.T. 0.06 min
Lab File: VN052432.D
Acq: 21 Nov 2018 12:31

Tgt Ion: 88 Resp: 63
Ion Ratio Lower Upper
88 100
43 1474233.3 33.3 49.9#
58 6588.9 59.2 88.8#





#50

Toluene-d8

Concen: 2.178 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052432.D

Acq: 21 Nov 2018 12:31

Instrument :

MSVOA_N

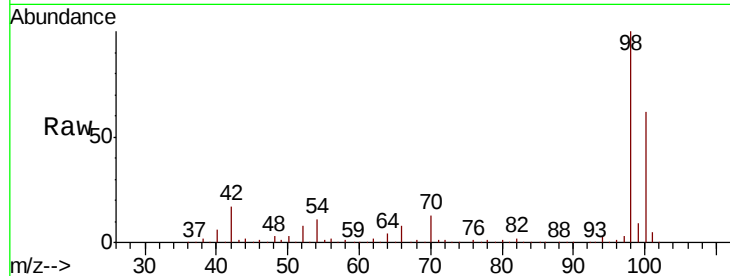
ClientSampleId :

Tot Ion: 98 Resp: 670868

Ion Ratio Lower Upper

98 100

100 62.1 49.5 74.3



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.09

400000

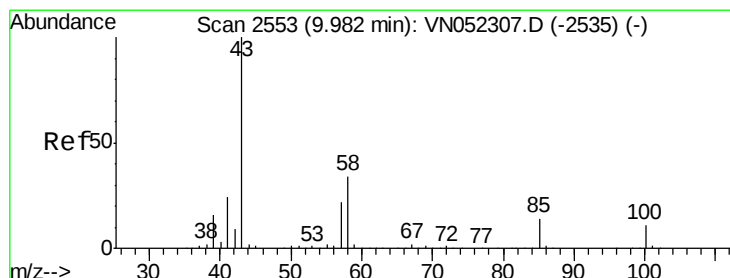
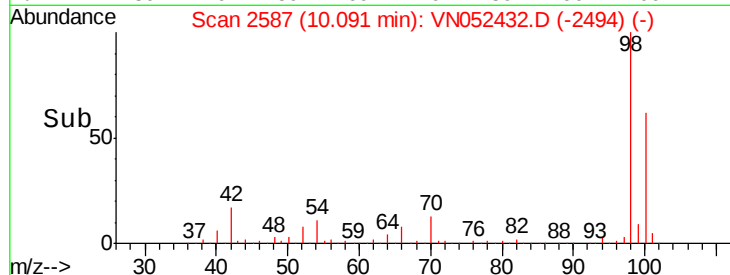
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.680 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052432.D

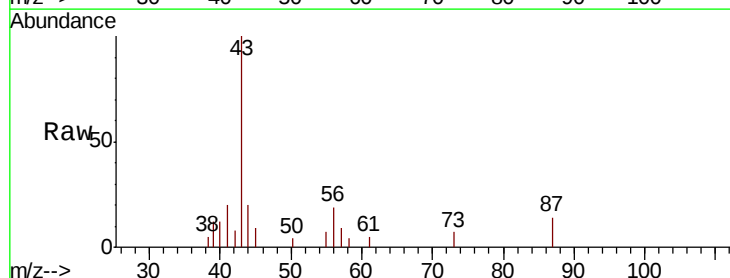
Acq: 21 Nov 2018 12:31

Tgt Ion: 43 Resp: 6282

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.02

5000

4000

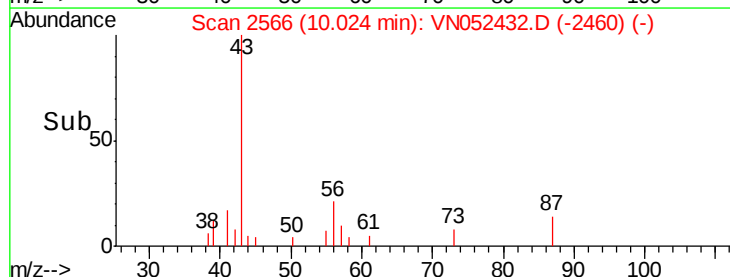
3000

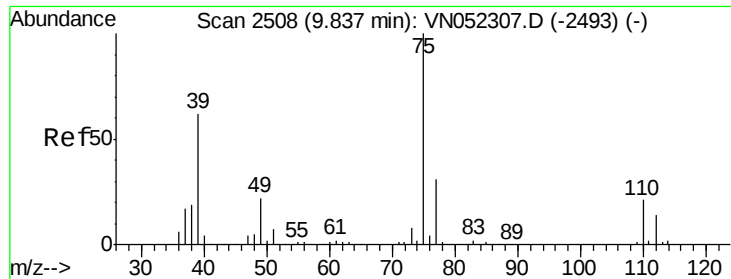
2000

1000

0

Time-->



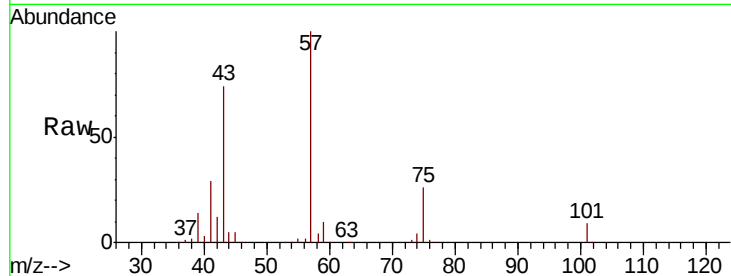


#54

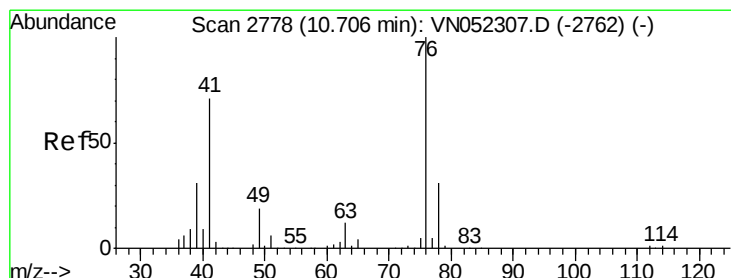
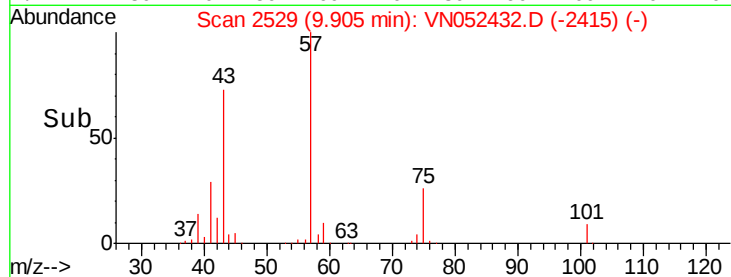
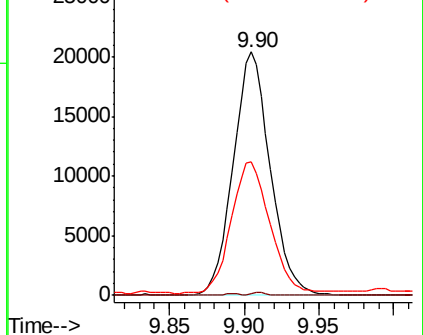
cis-1,3-Dichloropropene
 Concen: 5.968 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN052432.D
 Acq: 21 Nov 2018 12:31

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 35049
 Ion Ratio Lower Upper
 75 100
 77 0.8 24.6 36.8#
 39 53.5 49.9 74.9



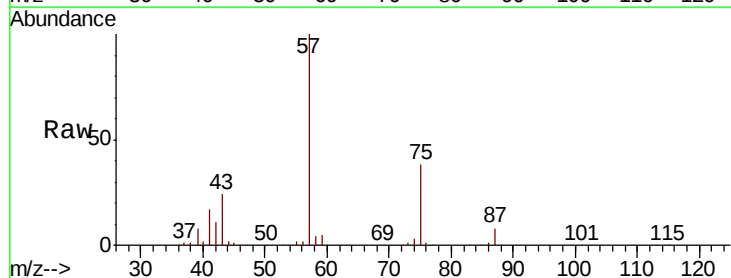
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



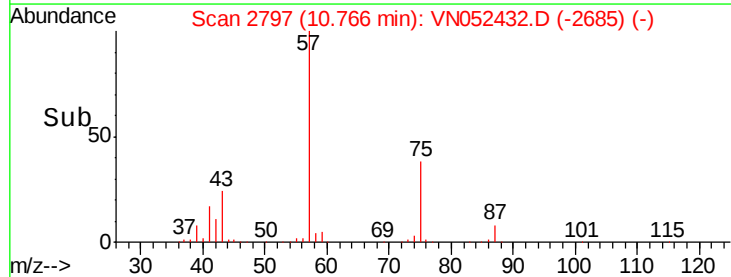
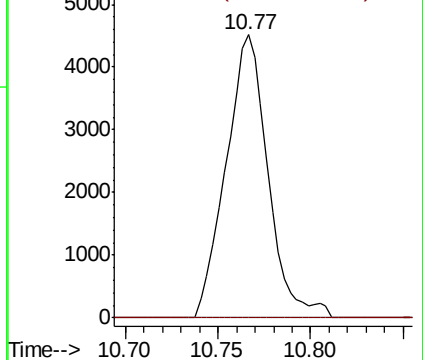
#57

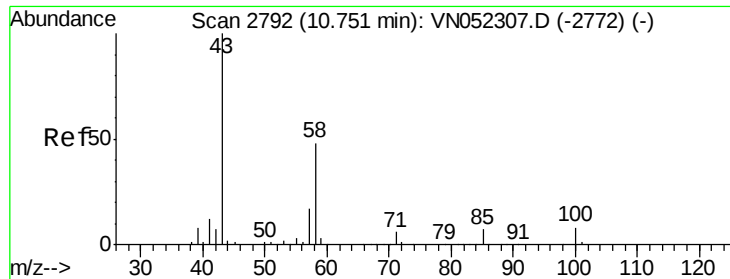
1,3-Dichloropropane
 Concen: 1.220 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN052432.D
 Acq: 21 Nov 2018 12:31

Tgt Ion: 76 Resp: 7101
 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

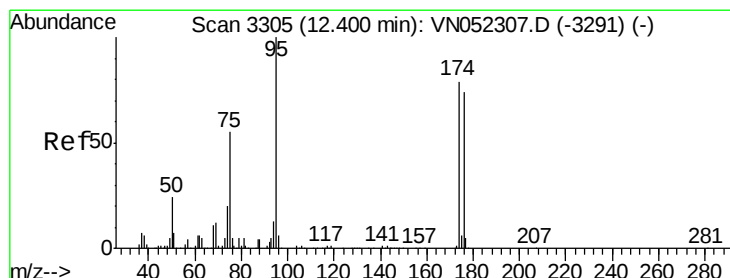
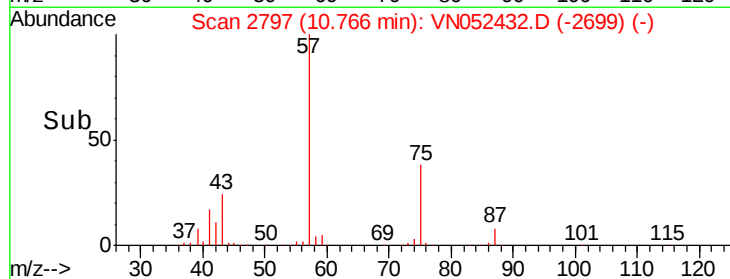
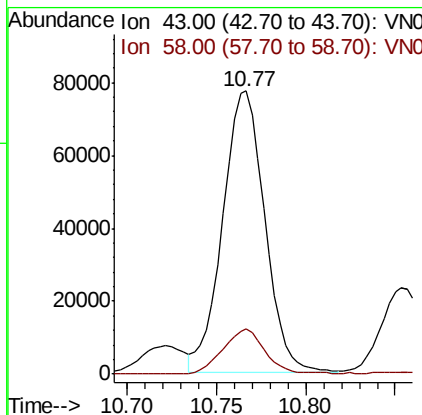
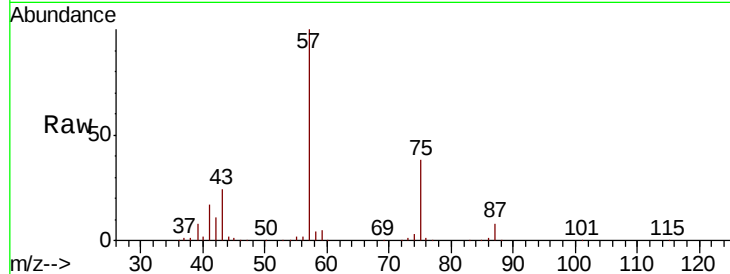




#59
2-Hexanone
Concen: 49.724 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN052432.D
Acq: 21 Nov 2018 12:31

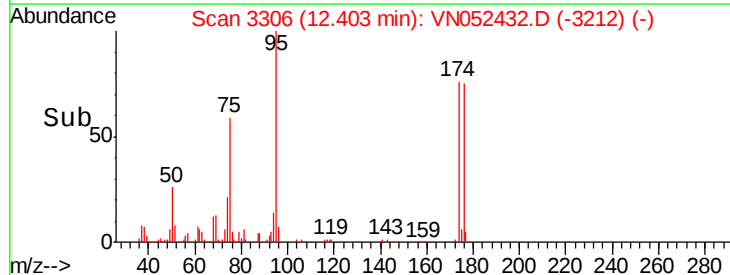
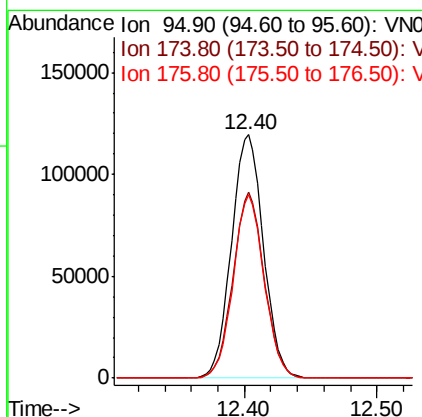
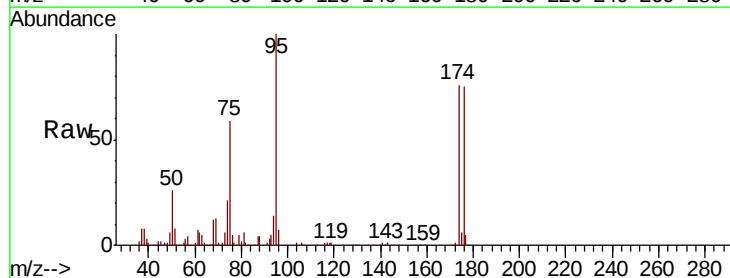
Instrument :
MSVOA_N
ClientSampled :

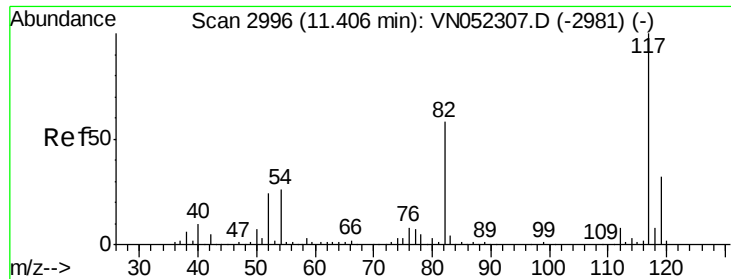
Tot Ion: 43 Resp: 127875
Ion Ratio Lower Upper
43 100
58 16.0 23.5 70.6#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052432.D
Acq: 21 Nov 2018 12:31

Tgt Ion: 95 Resp: 200305
Ion Ratio Lower Upper
95 100
174 74.5 0.0 156.0
176 72.5 0.0 148.4

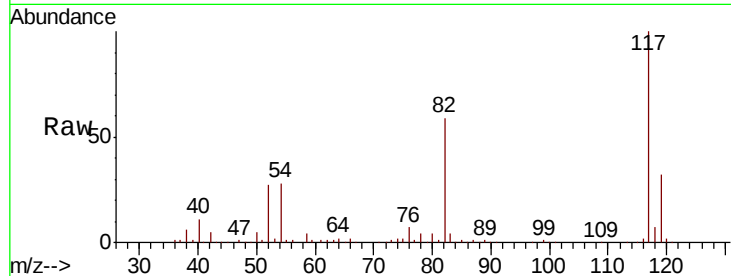




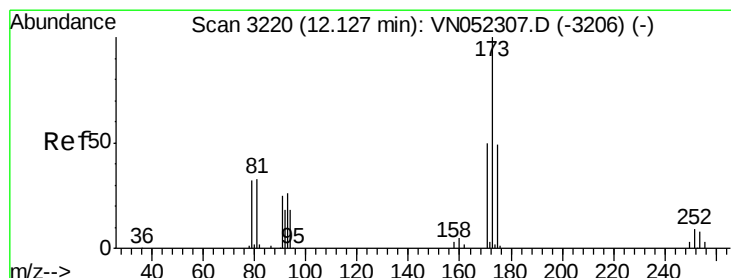
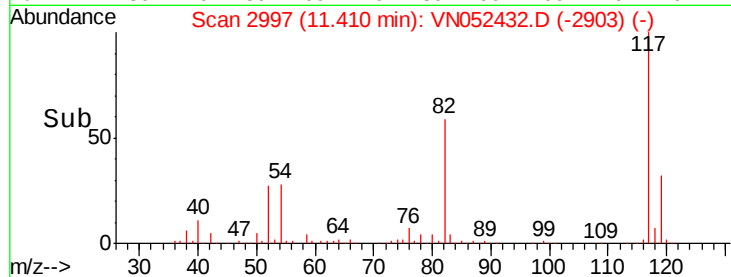
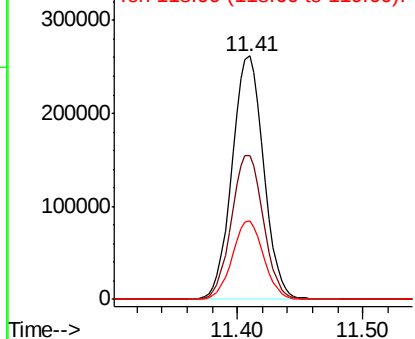
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052432.D
Acq: 21 Nov 2018 12:31

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 457728
Ion Ratio Lower Upper
117 100
82 59.0 46.5 69.7
119 32.0 25.7 38.5

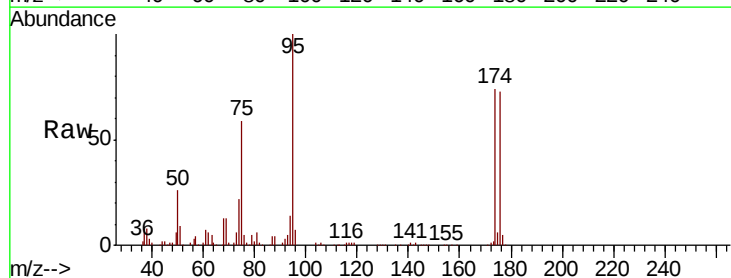


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

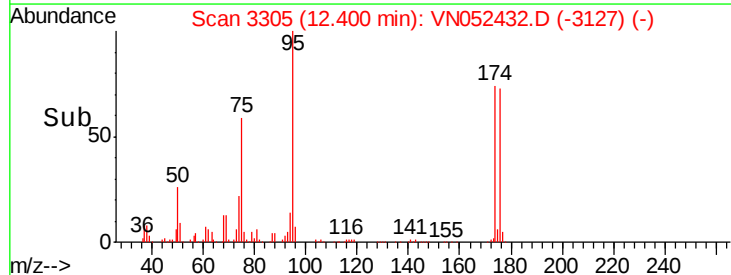
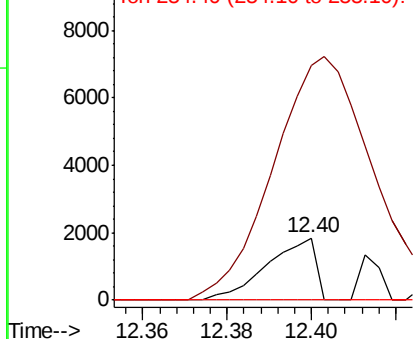


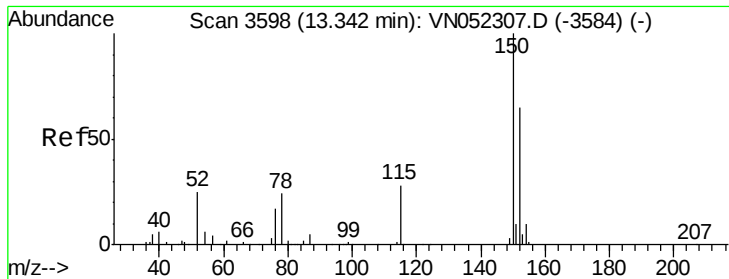
#71
Bromoform
Concen: 0.752 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN052432.D
Acq: 21 Nov 2018 12:31

Tgt Ion:173 Resp: 1464
Ion Ratio Lower Upper
173 100
175 680.4 25.0 75.0#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



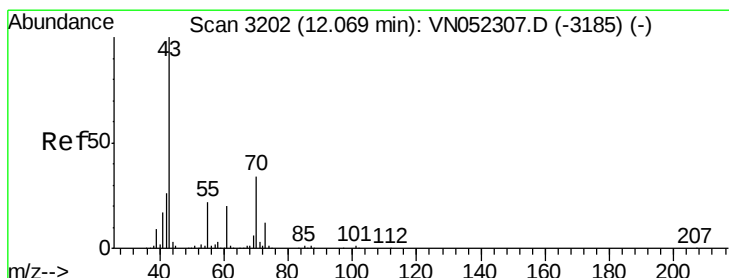
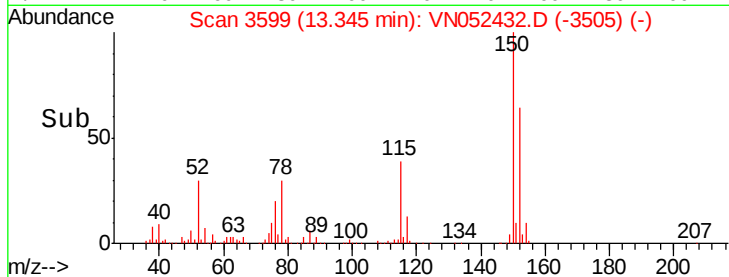
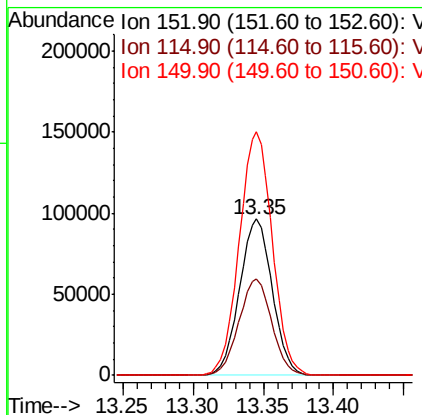
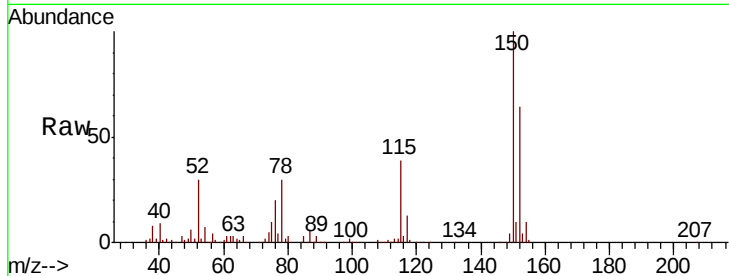


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN052432.D
Acq: 21 Nov 2018 12:31

Instrument :
MSVOA_N
ClientSampleId :

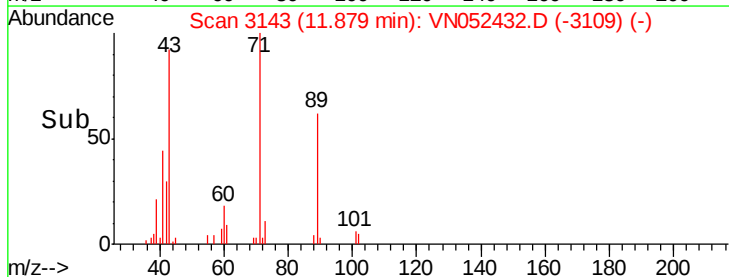
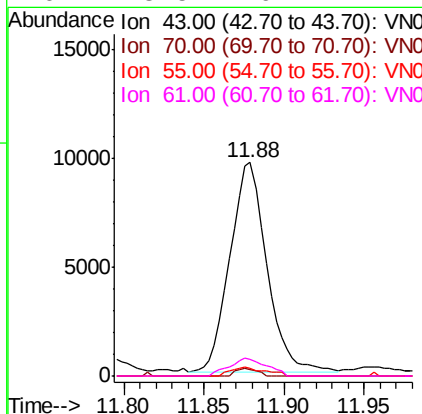
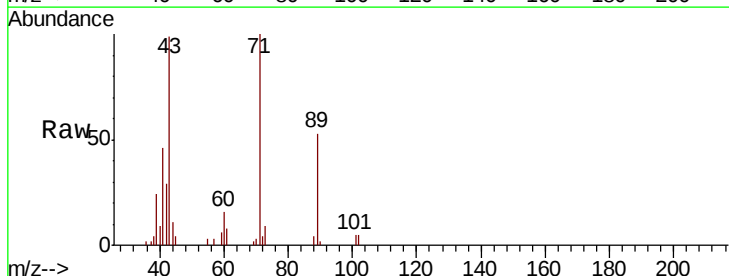
Tot Ion	Ratio	Lower	Upper
152	100		
115	61.9	30.3	91.0
150	156.7	0.0	348.2

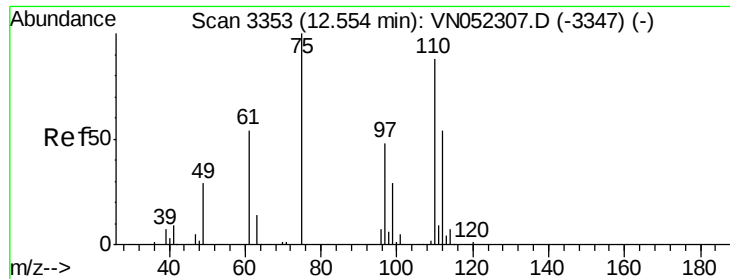


#74

N-ethyl acetate
Concen: 3.356 ug/l
RT: 11.88 min Scan# 3143
Delta R.T. -0.19 min
Lab File: VN052432.D
Acq: 21 Nov 2018 12:31

Tgt Ion	Ratio	Lower	Upper
43	100		
70	2.0	27.1	40.7#
55	4.0	17.4	26.0#
61	8.5	16.1	24.1#

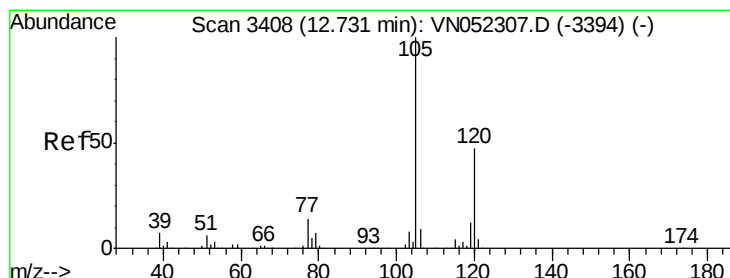
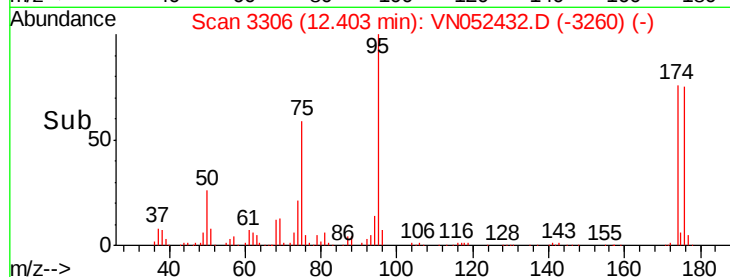
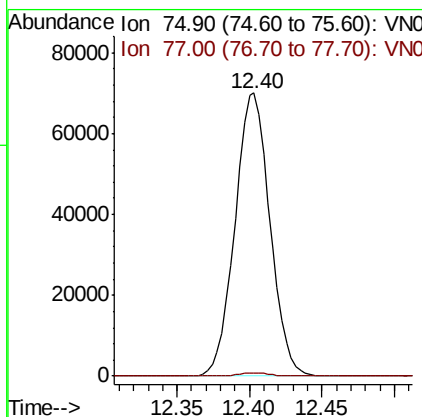
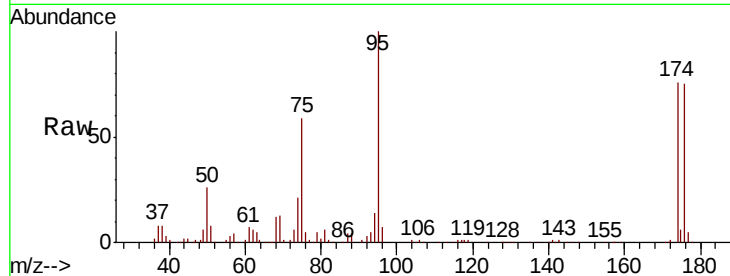




#76
 1,2,3-Trichloropropane
 Concen: 44.079 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. -0.15 min
 Lab File: VN052432.D
 Acq: 21 Nov 2018 12:31

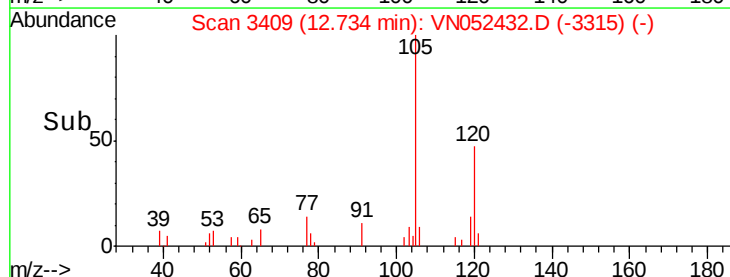
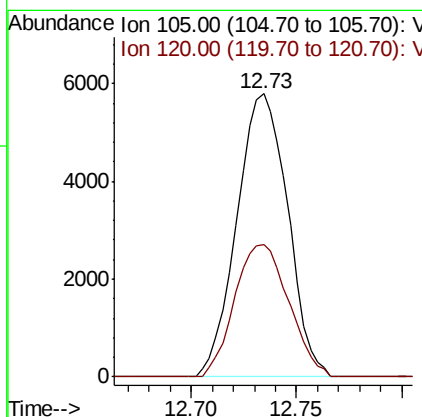
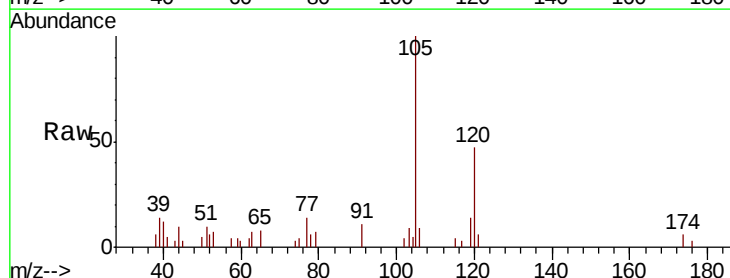
Instrument :
 MSVOA_N
 ClientSampled :

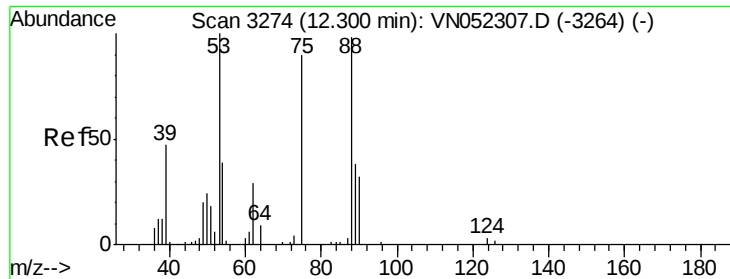
Tot Ion: 75 Resp: 117269
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.968 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN052432.D
 Acq: 21 Nov 2018 12:31

Tgt Ion: 105 Resp: 9700
 Ion Ratio Lower Upper
 105 100
 120 49.7 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 142.966 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052432.D

Acq: 21 Nov 2018 12:31

Instrument :

MSVOA_N

ClientSampled :

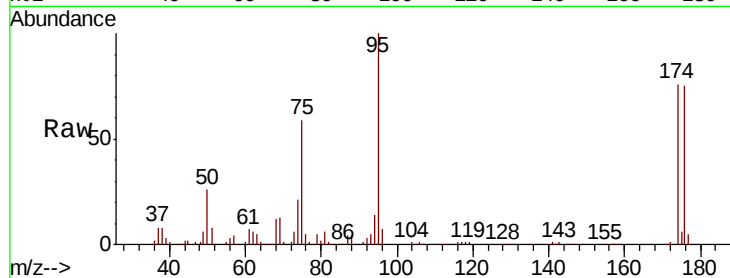
Tot Ion: 75 Resp: 117269

Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

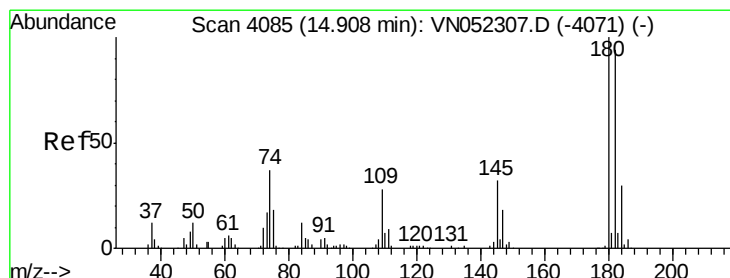
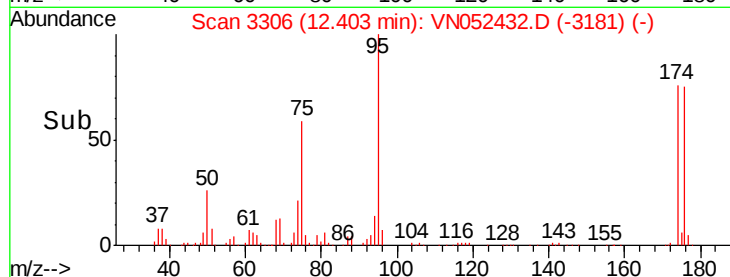
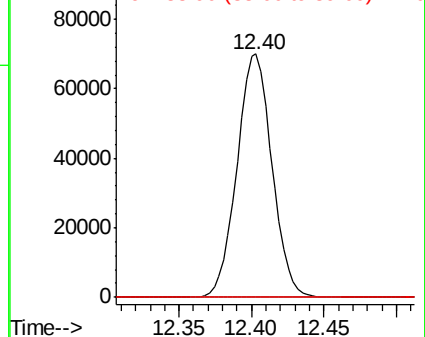
89 0.0 35.4 53.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 2.386 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN052432.D

Acq: 21 Nov 2018 12:31

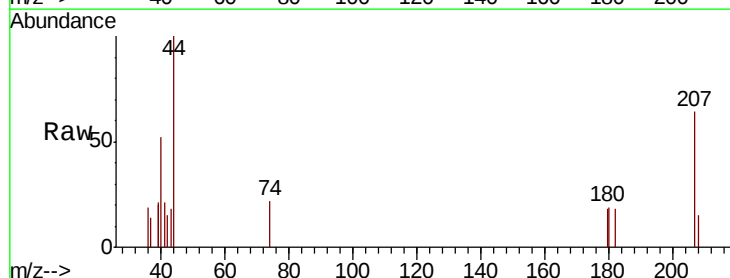
Tgt Ion:180 Resp: 318

Ion Ratio Lower Upper

180 100

182 22.6 47.6 142.9#

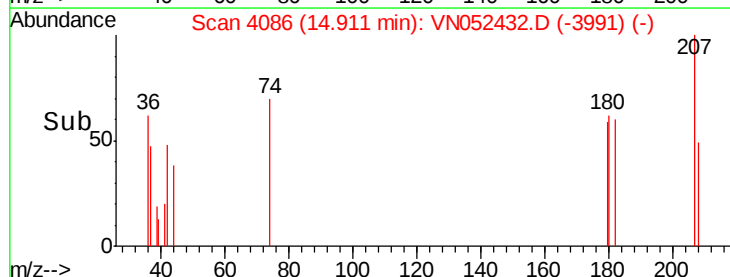
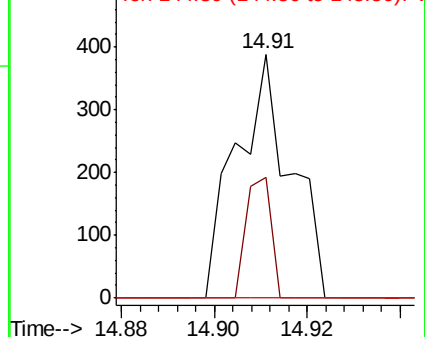
145 0.0 15.5 46.5#

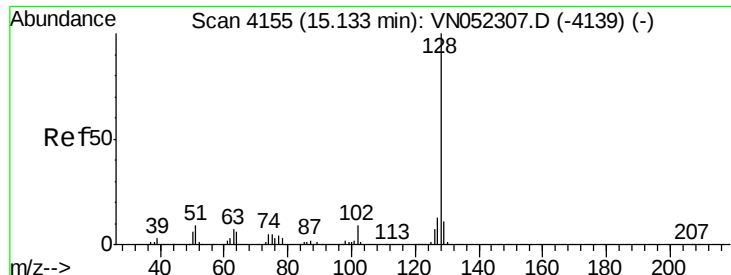


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 2.711 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

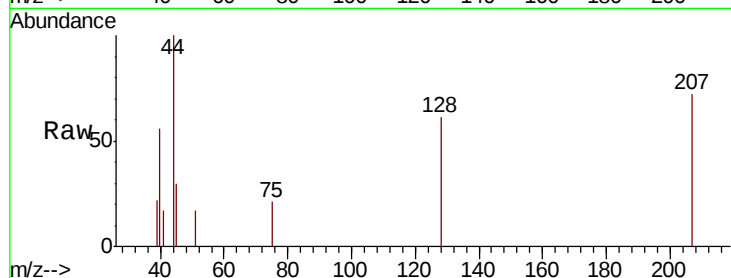
Lab File: VN052432.D

Acq: 21 Nov 2018 12:31

Instrument :

MSVOA_N

ClientSampleId :



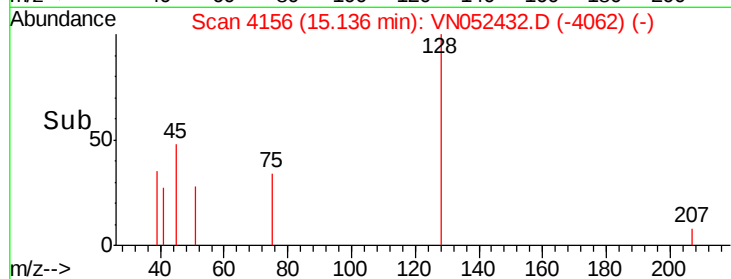
Tot Ion:128 Resp: 625

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

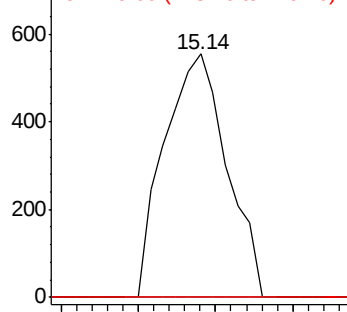
129 0.0 8.6 13.0#



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



Time--> 15.10 15.12 15.14 15.16