

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111318\
 Data File : VN052288.D
 Acq On : 13 Nov 2018 15:57
 Operator : MD\SY
 Sample : PB114744ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 14 00:09:04 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 12 00:34:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	340530	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	564140	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	464480	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	147728	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	220827	47.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.82%	
35) Dibromofluoromethane	7.59	113	179321	49.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.14%	
50) Toluene-d8	10.09	98	690390	48.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.54%	
62) 4-Bromofluorobenzene	12.40	95	190777	41.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.50%	

Target Compounds

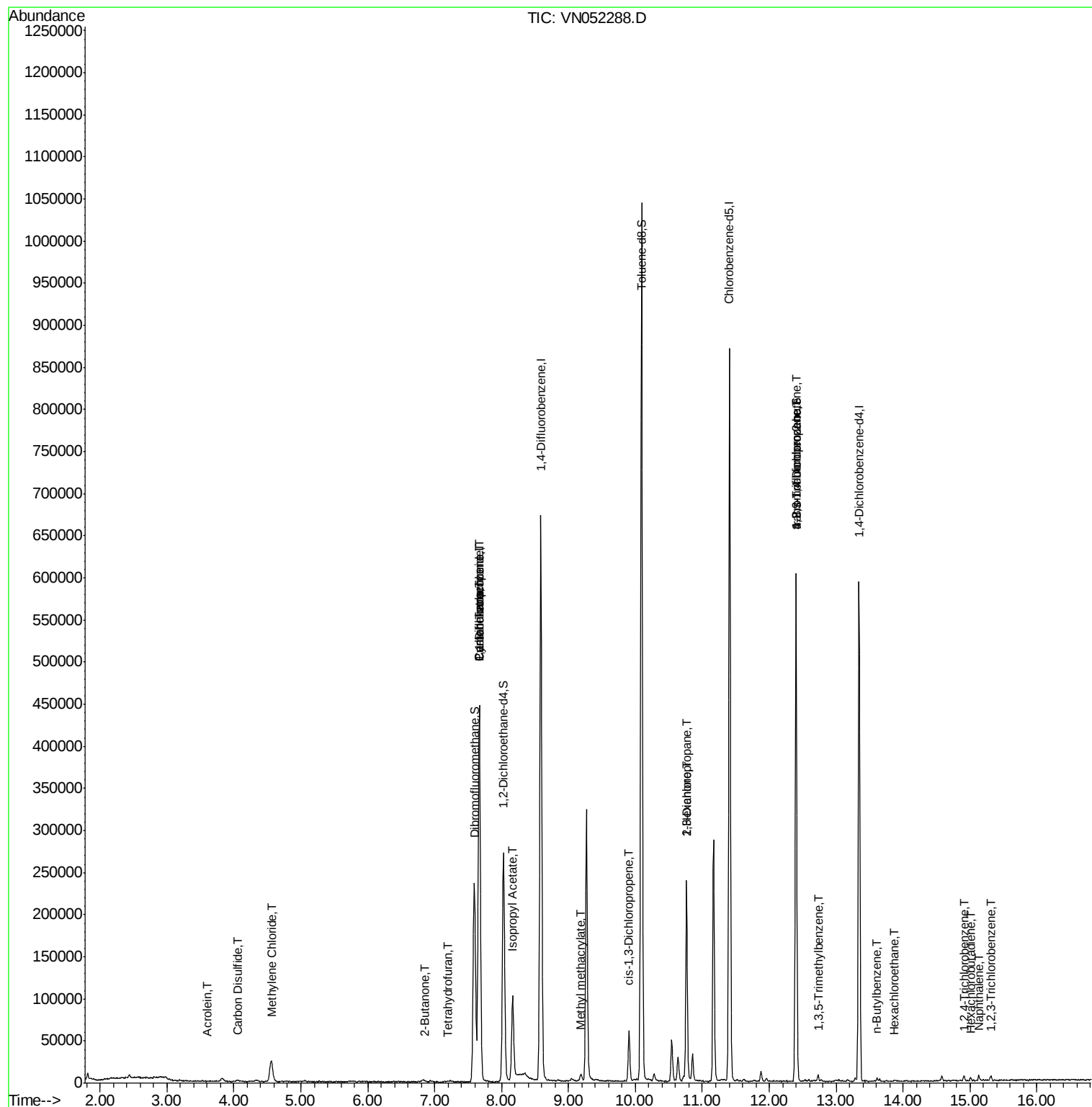
					Qvalue	
13) Acrolein	3.61	56	163	34.479	ug/l #	55
16) Acetone	3.82	43	7294	Below Cal		90
17) Carbon Disulfide	4.06	76	2240	0.217	ug/l #	75
20) Methylene Chloride	4.55	84	16796	3.956	ug/l	98
25) 2-Butanone	6.86	43	523	0.263	ug/l #	52
29) Tetrahydrofuran	7.20	42	350	0.271	ug/l #	40
31) Cyclohexane	7.66	56	9751	0.673	ug/l #	18
36) 1,1-Dichloropropene	7.67	75	29531	5.186	ug/l #	52
38) Carbon Tetrachloride	7.67	117	35409	6.862	ug/l #	16
43) Isopropyl Acetate	8.17	43	128481	17.211	ug/l	97
48) Methyl methacrylate	9.18	41	4691	1.193	ug/l #	15
54) cis-1,3-Dichloropropene	9.90	75	9353	1.481	ug/l #	73
57) 1,3-Dichloropropane	10.76	76	2472	0.388	ug/l #	43
59) 2-Hexanone	10.76	43	39866	13.775	ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	104892	40.132	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3520	0.367	ug/l	88
81) trans-1,4-Dichloro-2-buten	12.40	75	104892	136.987	ug/l #	8
89) n-Butylbenzene	13.61	91	2161	0.252	ug/l	92
90) Hexachloroethane	13.88	117	406	0.240	ug/l #	34
93) 1,2,4-Trichlorobenzene	14.91	180	1676	0.883	ug/l	93
94) Hexachlorobutadiene	15.01	225	640	0.620	ug/l	92
95) Naphthalene	15.13	128	3892	0.832	ug/l	98
96) 1,2,3-Trichlorobenzene	15.32	180	1759	0.980	ug/l	91

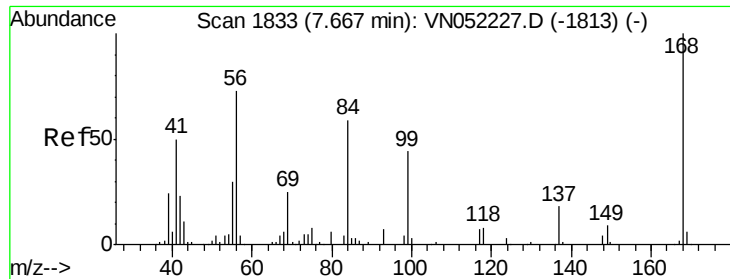
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN111318\
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Quant Time: Nov 14 00:09:04 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N110918W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 12 00:34:27 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: VN052288.D

Acq: 13 Nov 2018 15:57

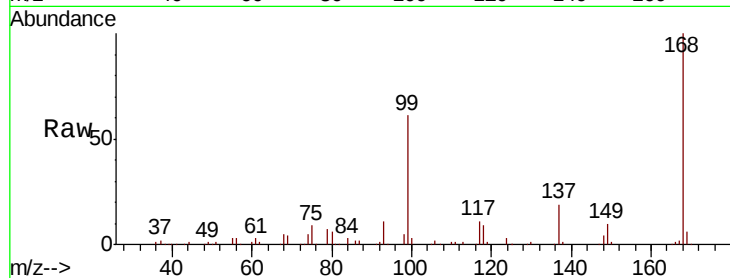
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 340530

Ion Ratio Lower Upper

168 100

99 60.9 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

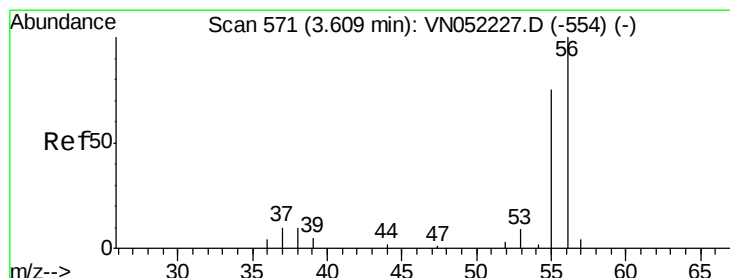
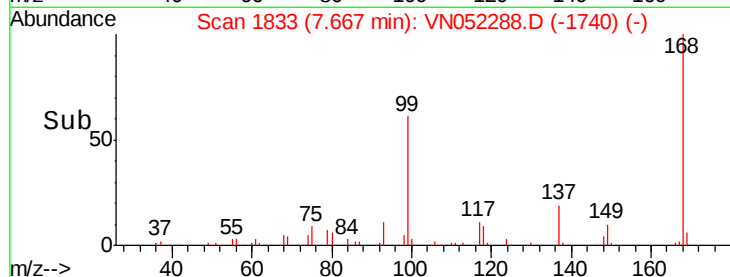
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#13

Acrolein

Concen: 34.479 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN052288.D

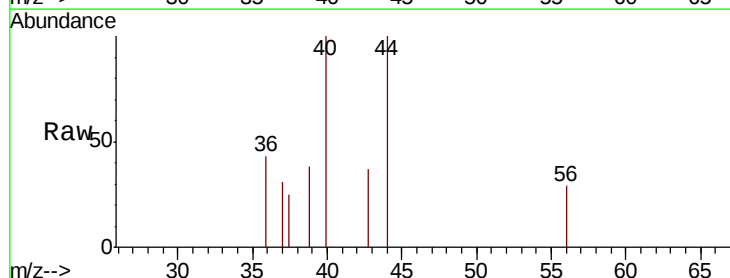
Acq: 13 Nov 2018 15:57

Tgt Ion: 56 Resp: 163

Ion Ratio Lower Upper

56 100

55 36.8 59.9 89.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.61

200

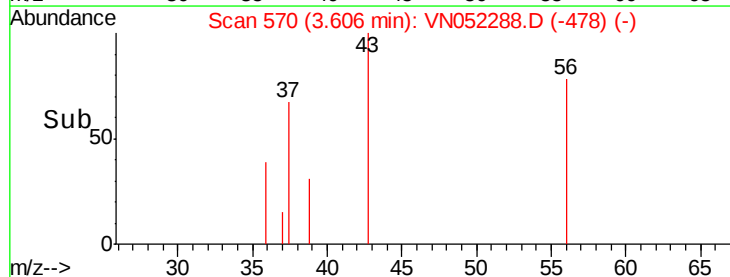
150

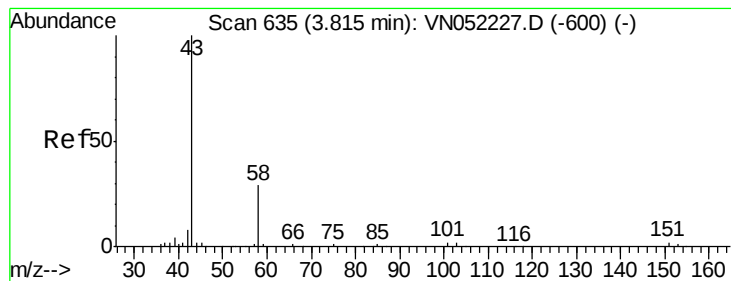
100

50

0

Time--> 3.58 3.59 3.60 3.61 3.62





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052288.D

Acq: 13 Nov 2018 15:57

Instrument :

MSVOA_N

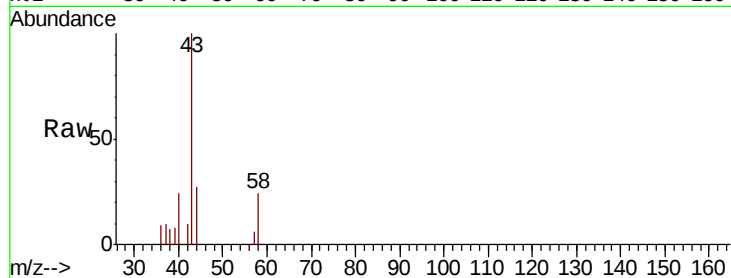
ClientSampled :

Tot Ion: 43 Resp: 7294

Ion Ratio Lower Upper

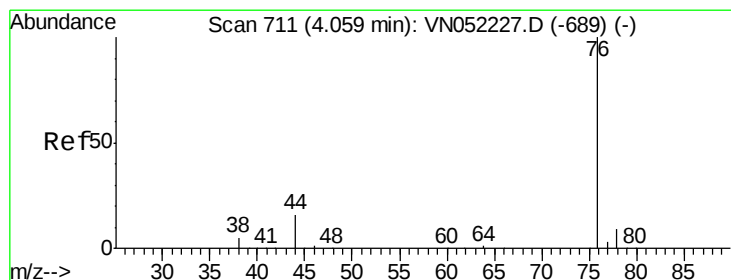
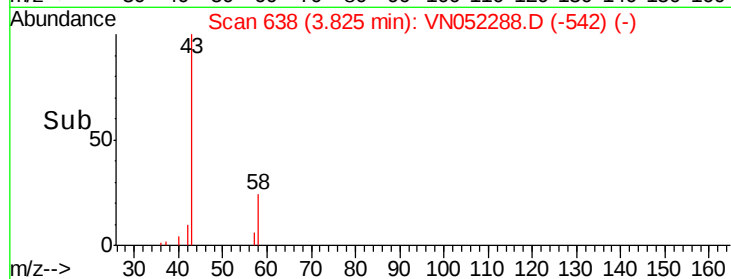
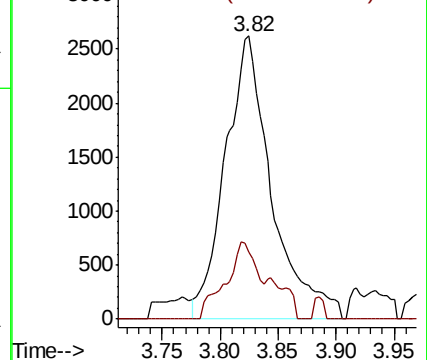
43 100

58 23.6 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.217 ug/l

RT: 4.06 min Scan# 711

Delta R.T. -0.00 min

Lab File: VN052288.D

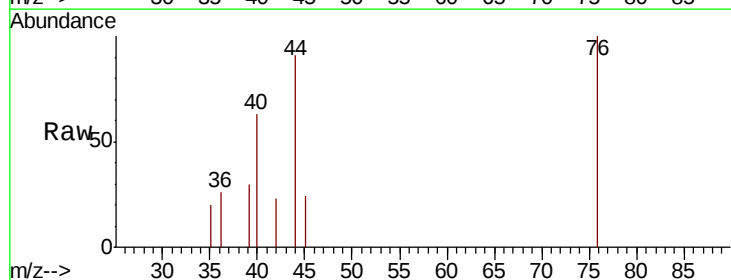
Acq: 13 Nov 2018 15:57

Tgt Ion: 76 Resp: 2240

Ion Ratio Lower Upper

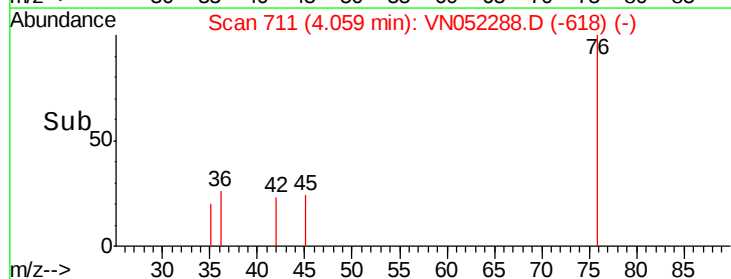
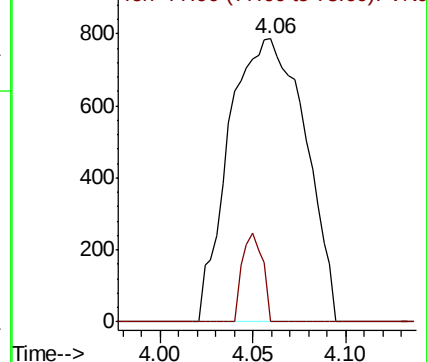
76 100

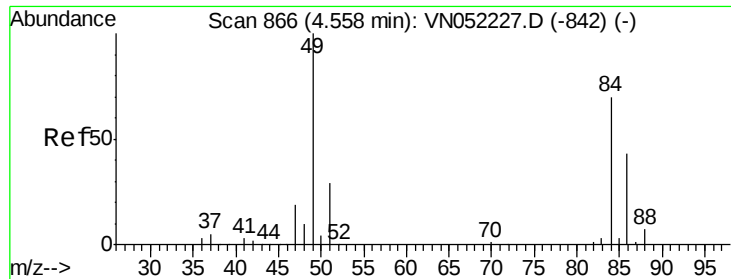
78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#20

Methylene Chloride

Concen: 3.956 ug/l

RT: 4.55 min Scan# 865

Delta R.T. -0.00 min

Lab File: VN052288.D

Acq: 13 Nov 2018 15:57

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 84 Resp: 16796

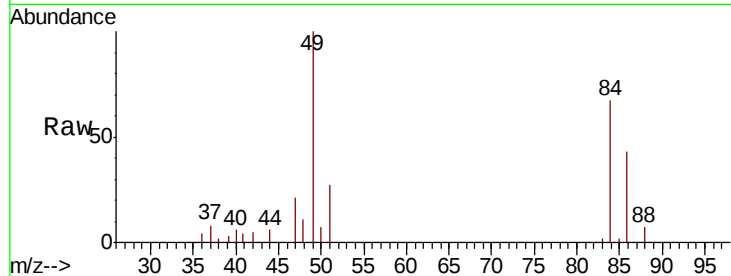
Ion Ratio Lower Upper

84 100

49 146.7 114.8 172.2

51 41.3 33.1 49.7

86 64.4 49.7 74.5

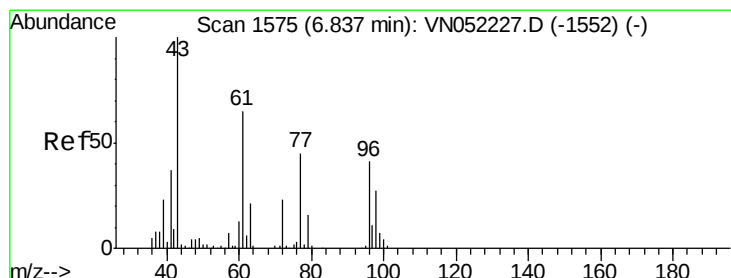
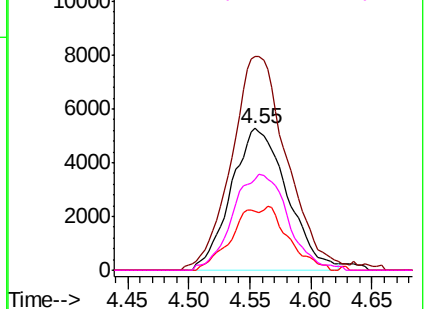
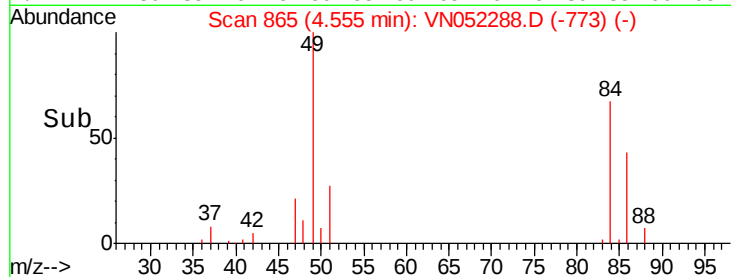


Abundance Ion 83.90 (83.60 to 84.60): VN052288.D (-773) (-)

Ion 48.90 (48.60 to 49.60): VN052288.D (-773) (-)

Ion 50.90 (50.60 to 51.60): VN052288.D (-773) (-)

Ion 85.90 (85.60 to 86.60): VN052288.D (-773) (-)



#25

2-Butanone

Concen: 0.263 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. 0.02 min

Lab File: VN052288.D

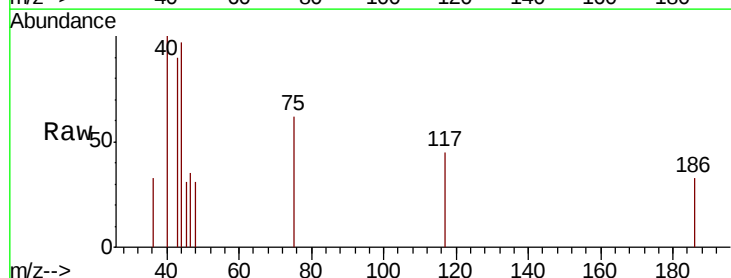
Acq: 13 Nov 2018 15:57

Tgt Ion: 43 Resp: 523

Ion Ratio Lower Upper

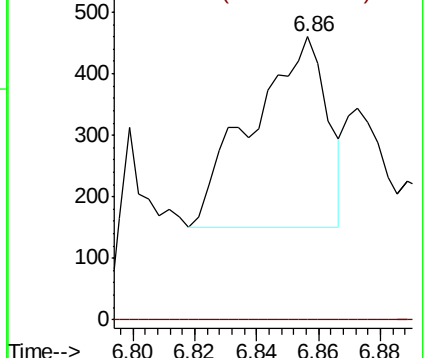
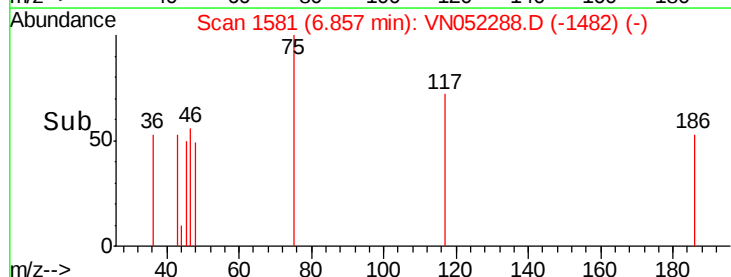
43 100

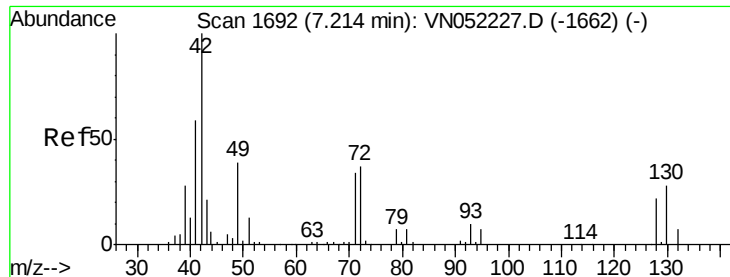
72 0.0 18.6 27.8#



Abundance Ion 43.00 (42.70 to 43.70): VN052288.D (-1482) (-)

Ion 72.00 (71.70 to 72.70): VN052288.D (-1482) (-)





#29

Tetrahydrofuran

Concen: 0.271 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.02 min

Lab File: VN052288.D

Acq: 13 Nov 2018 15:57

Instrument :

MSVOA_N

ClientSampled :

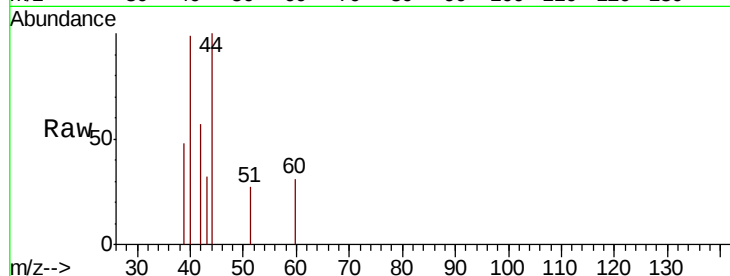
Tot Ion: 42 Resp: 350

Ion Ratio Lower Upper

42 100

72 0.0 28.6 43.0#

71 0.0 27.1 40.7#

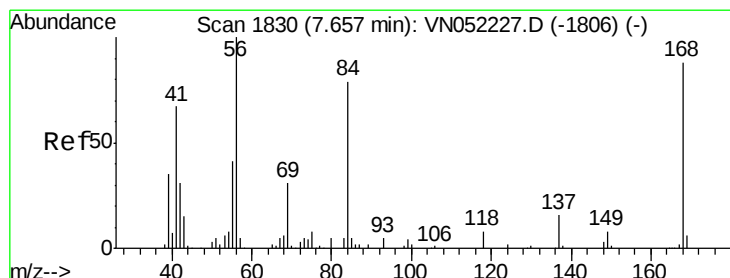
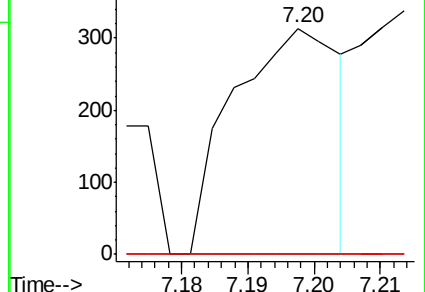
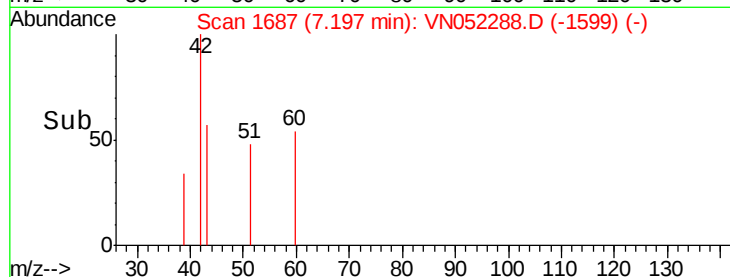


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

Time-->



#31

Cyclohexane

Concen: 0.673 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN052288.D

Acq: 13 Nov 2018 15:57

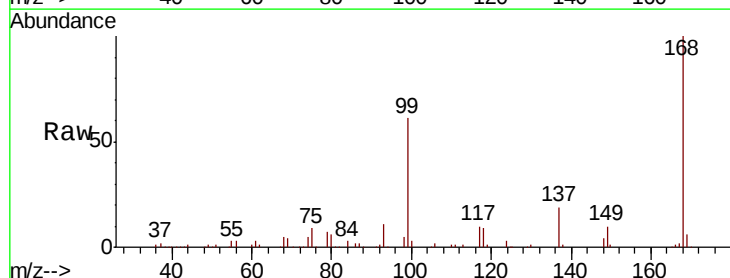
Tgt Ion: 56 Resp: 9751

Ion Ratio Lower Upper

56 100

69 142.1 24.8 37.2#

84 109.4 63.1 94.7#

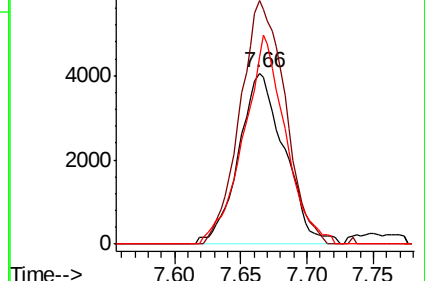
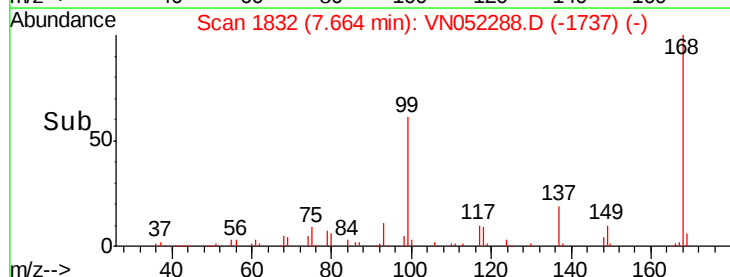


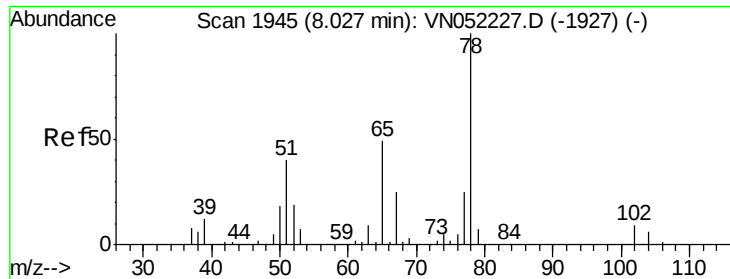
Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

Time-->

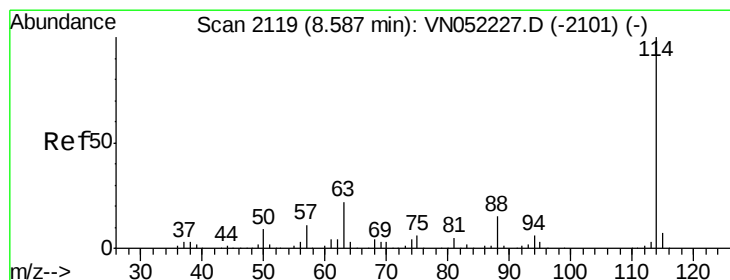
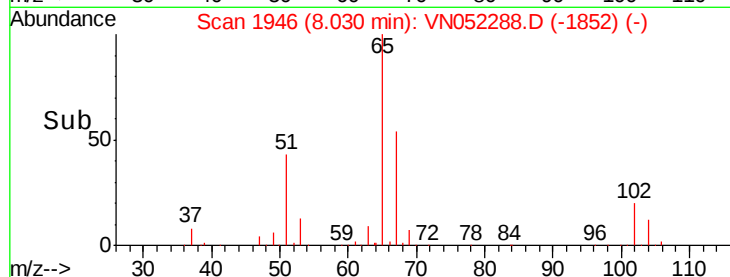
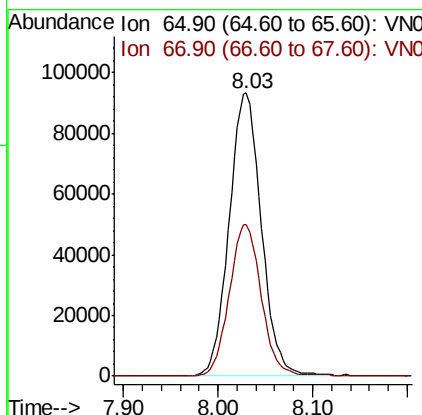
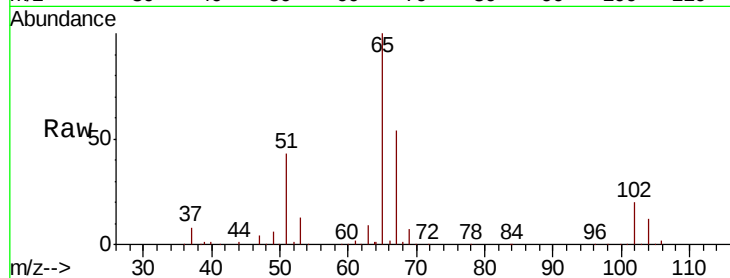




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052288.D
 Acq: 13 Nov 2018 15:57

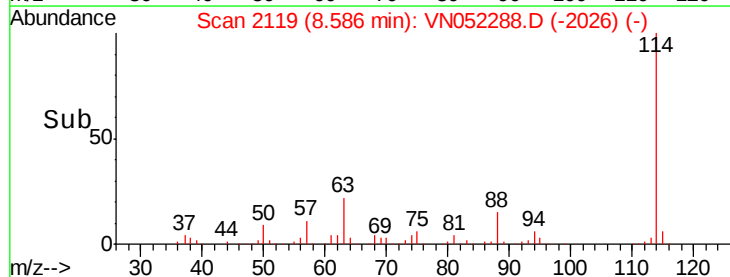
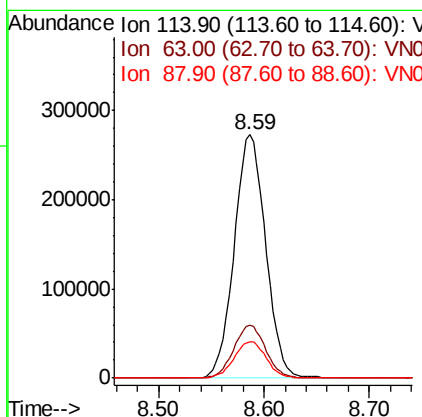
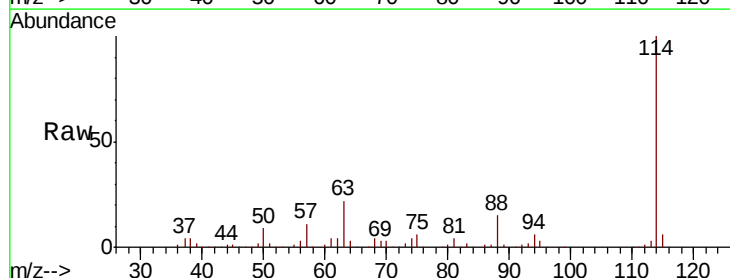
Instrument :
 MSVOA_N
 ClientSampleId :

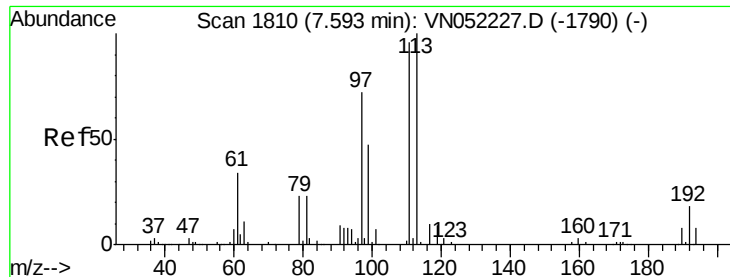
Tot Ion: 65 Resp: 220827
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052288.D
 Acq: 13 Nov 2018 15:57

Tgt Ion: 114 Resp: 564140
 Ion Ratio Lower Upper
 114 100
 63 22.0 0.0 43.4
 88 15.1 0.0 30.2





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. -0.00 min

Lab File: VN052288.D

Acq: 13 Nov 2018 15:57

Instrument :
MSVOA_N
ClientSampleId :

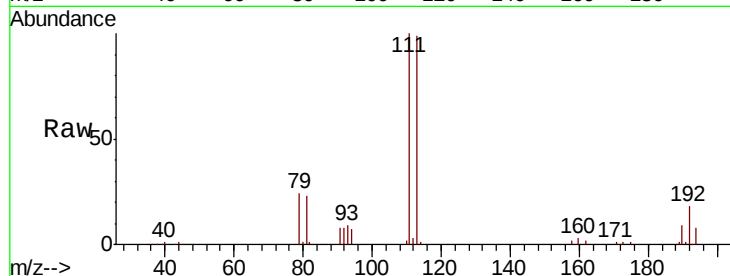
Tot Ion:113 Resp: 179321

Ion Ratio Lower Upper

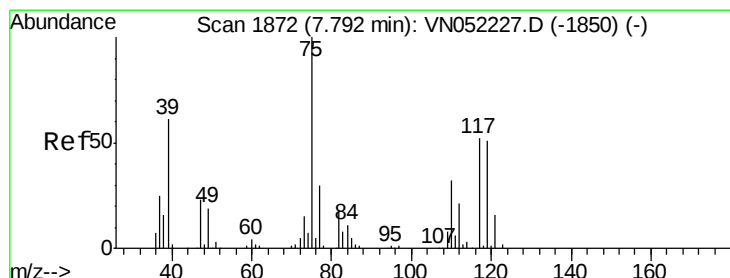
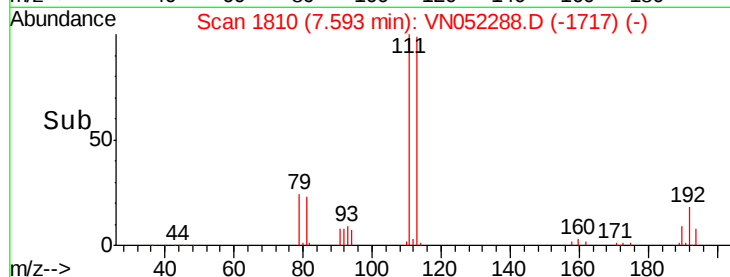
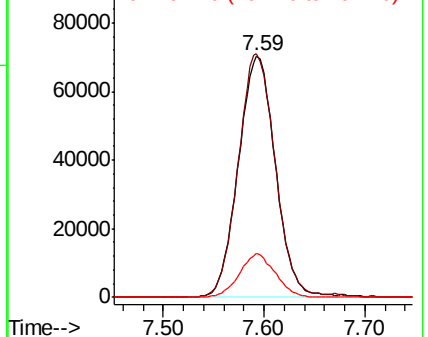
113 100

111 100.6 80.2 120.4

192 17.4 14.1 21.1



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: 5.186 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052288.D

Acq: 13 Nov 2018 15:57

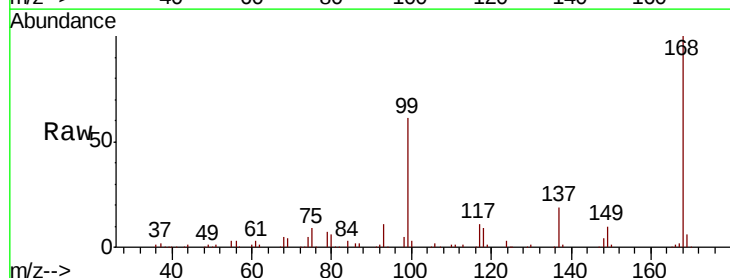
Tgt Ion: 75 Resp: 29531

Ion Ratio Lower Upper

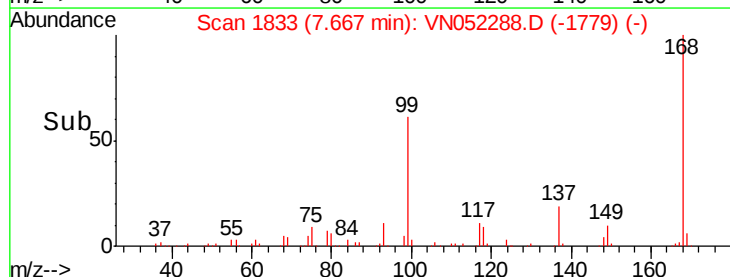
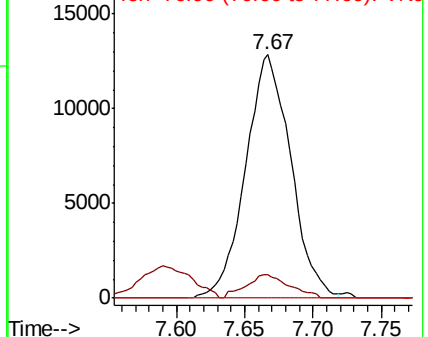
75 100

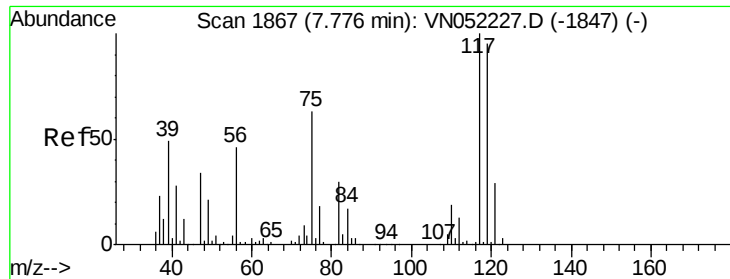
110 9.2 16.4 49.4#

77 0.0 23.9 35.9#



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: 6.862 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN052288.D

Acq: 13 Nov 2018 15:57

Instrument :

MSVOA_N

ClientSampled :

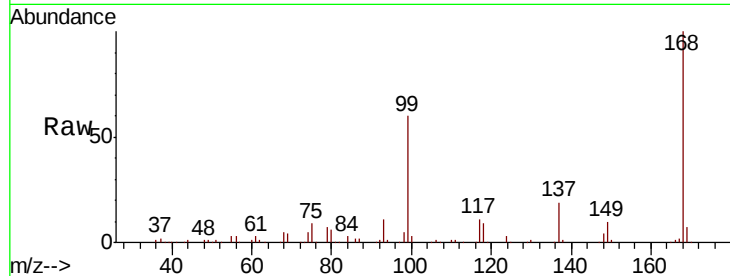
Tot Ion:117 Resp: 35409

Ion Ratio Lower Upper

117 100

119 4.3 75.8 113.8#

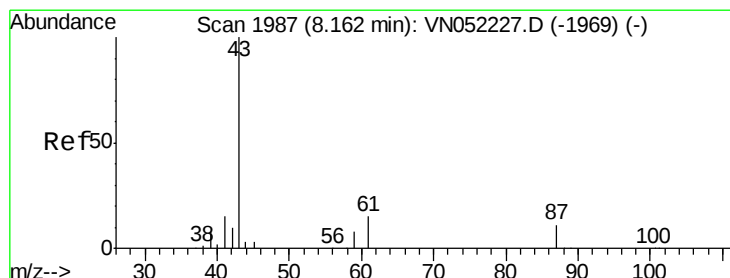
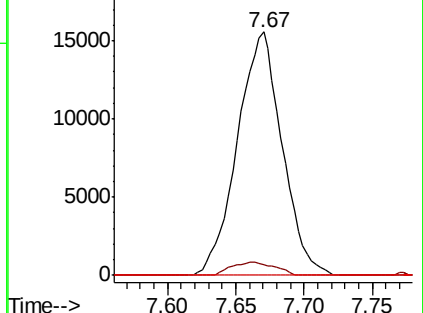
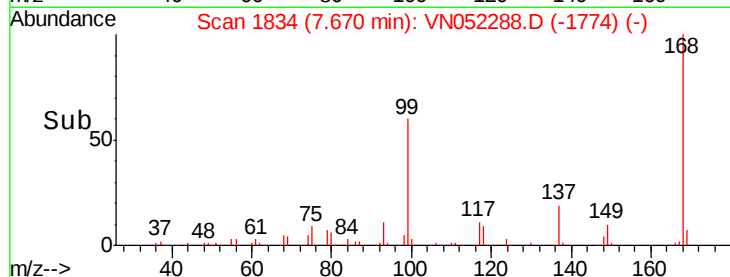
121 0.0 23.4 35.2#



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: 17.211 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052288.D

Acq: 13 Nov 2018 15:57

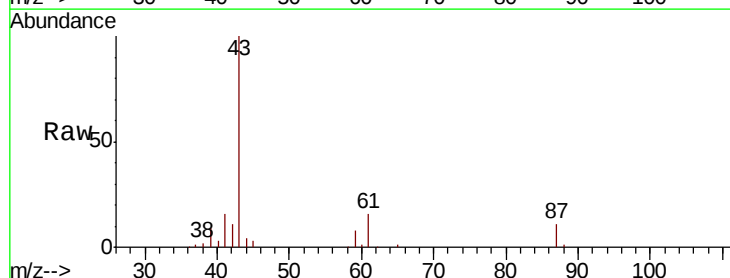
Tgt Ion: 43 Resp: 128481

Ion Ratio Lower Upper

43 100

61 16.0 14.2 21.4

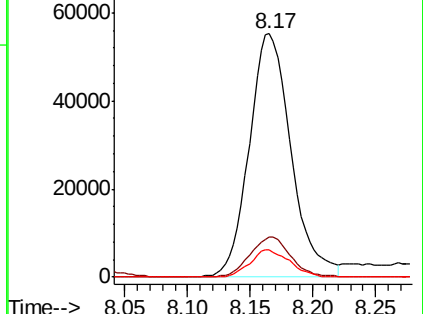
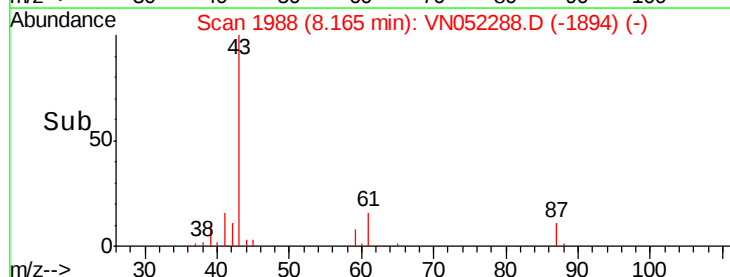
87 10.7 8.4 12.6

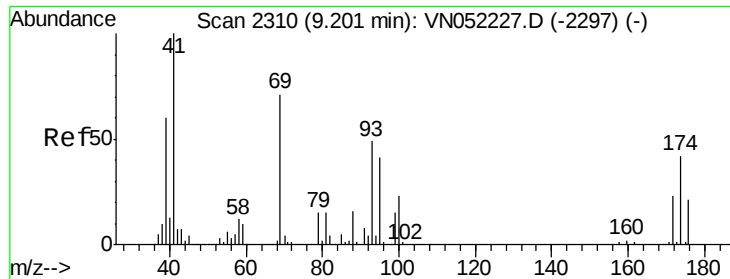


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

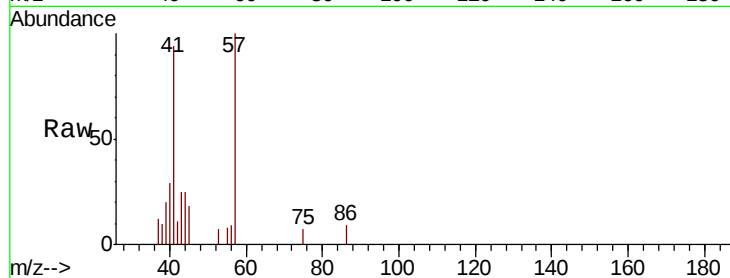




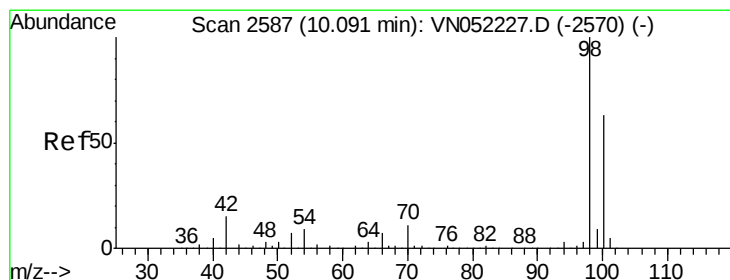
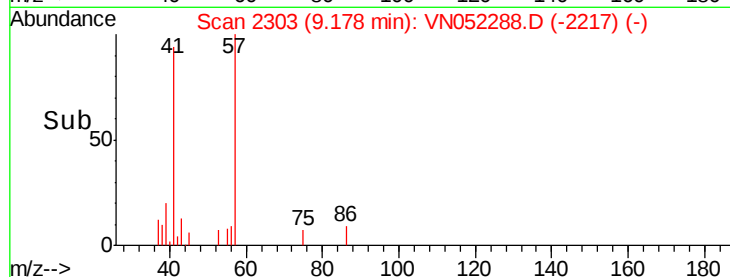
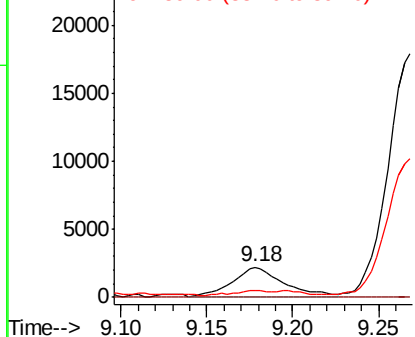
#48
Methyl methacrylate
Concen: 1.193 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052288.D
Acq: 13 Nov 2018 15:57

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 4691
Ion Ratio Lower Upper
41 100
69 0.0 58.8 88.2#
39 0.0 50.7 76.1#

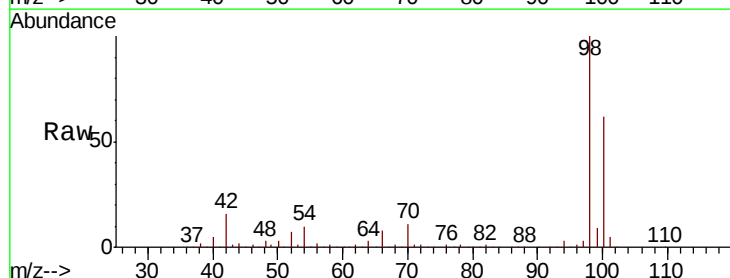


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

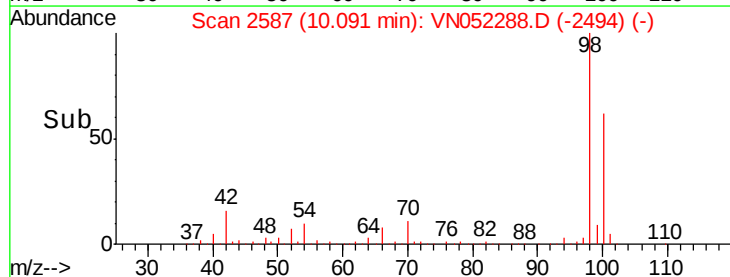
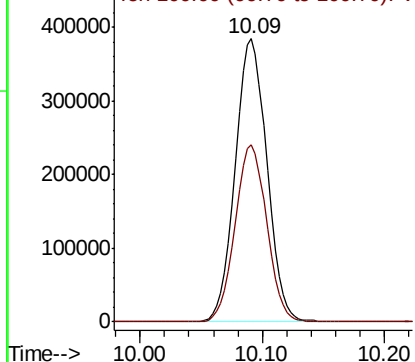


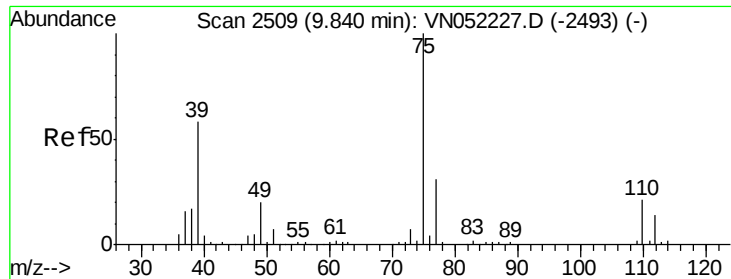
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052288.D
Acq: 13 Nov 2018 15:57

Tgt Ion: 98 Resp: 690390
Ion Ratio Lower Upper
98 100
100 62.5 50.2 75.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0



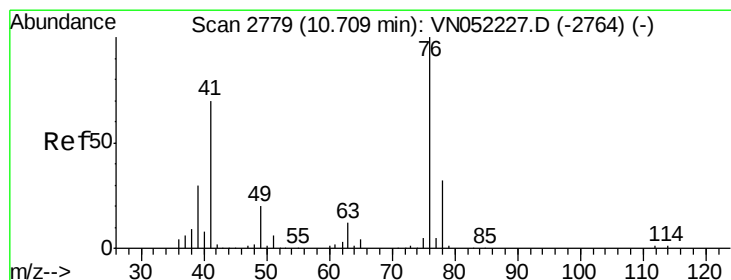
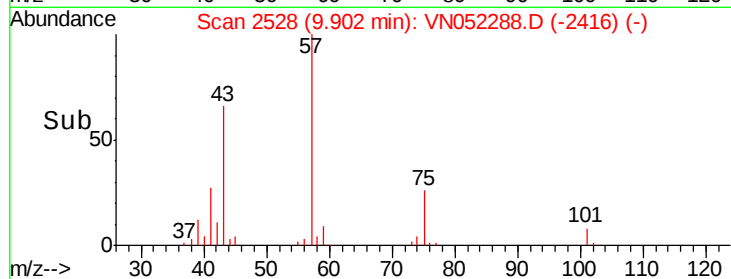
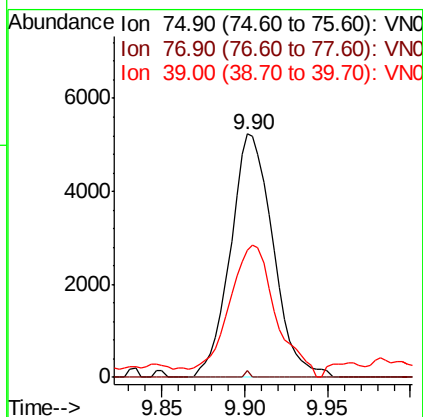
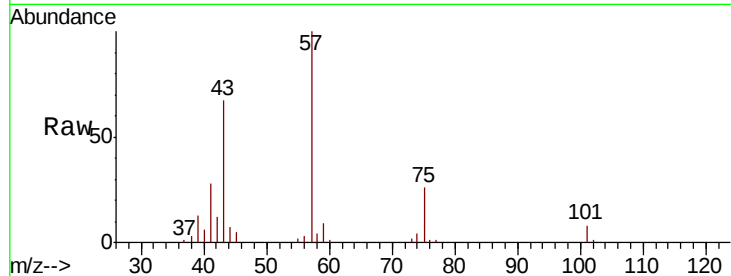


#54

cis-1,3-Dichloropropene
 Concen: 1.481 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.06 min
 Lab File: VN052288.D
 Acq: 13 Nov 2018 15:57

Instrument :
 MSVOA_N
 ClientSampleId :

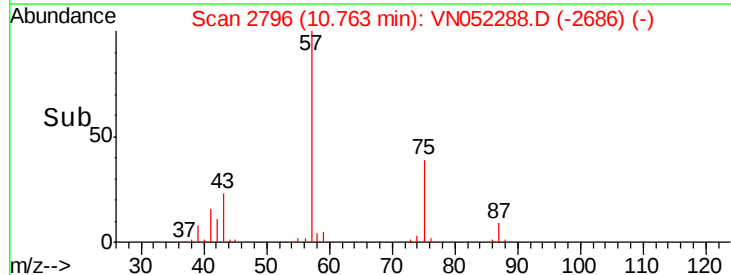
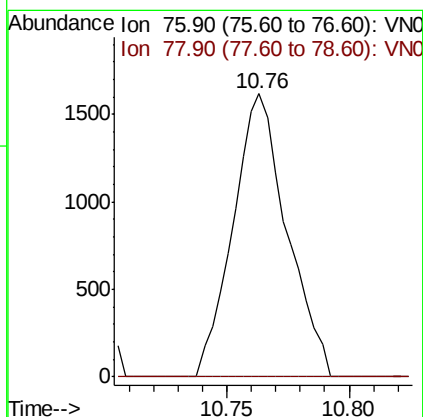
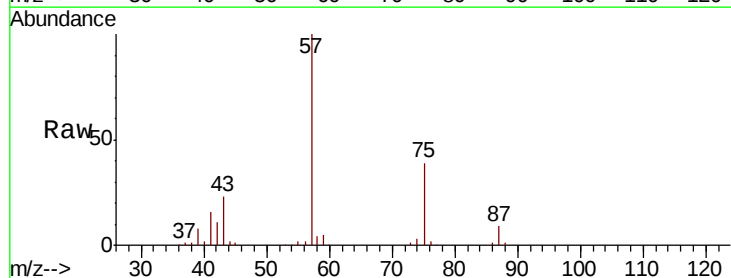
Tot Ion: 75 Resp: 9353
 Ion Ratio Lower Upper
 75 100
 77 2.9 25.2 37.8#
 39 48.6 46.6 70.0

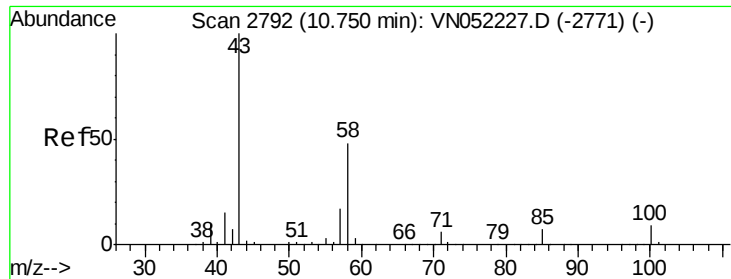


#57

1,3-Dichloropropane
 Concen: 0.388 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN052288.D
 Acq: 13 Nov 2018 15:57

Tgt Ion: 76 Resp: 2472
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#

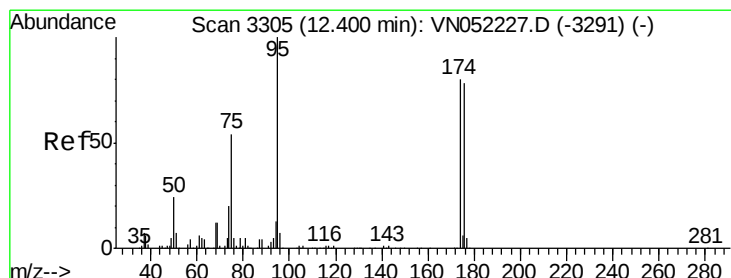
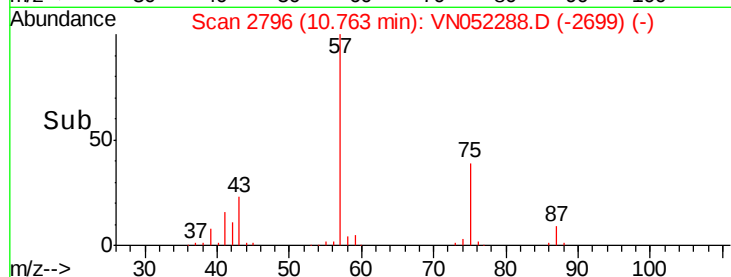
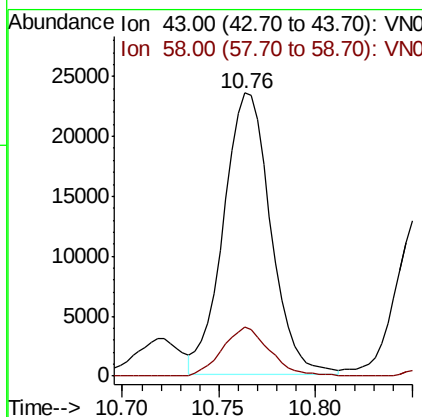
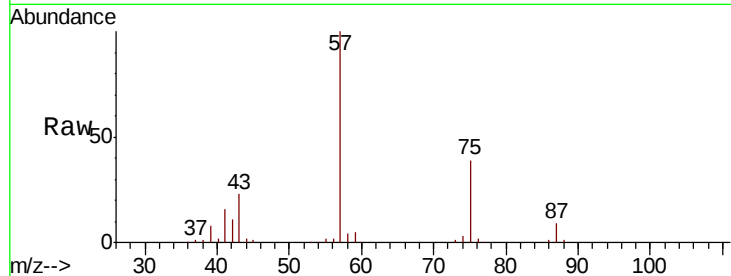




#59
2-Hexanone
Concen: 13.775 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052288.D
Acq: 13 Nov 2018 15:57

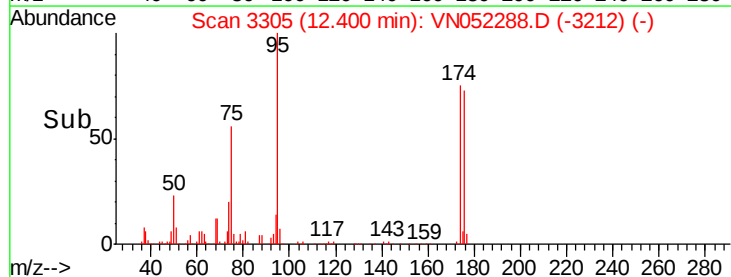
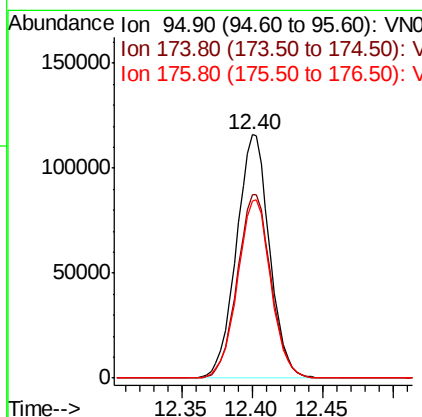
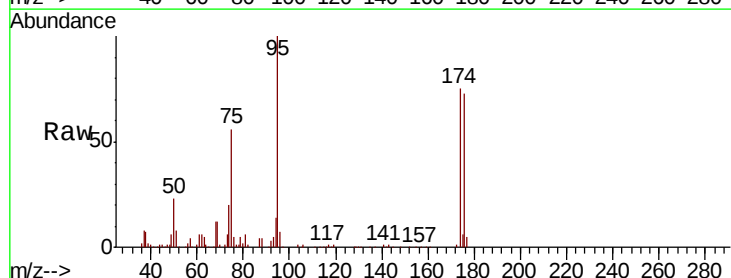
Instrument :
MSVOA_N
ClientSampled :

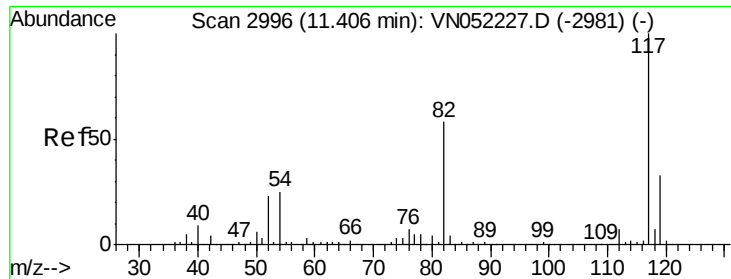
Tot Ion: 43 Resp: 39866
Ion Ratio Lower Upper
43 100
58 17.5 24.1 72.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052288.D
Acq: 13 Nov 2018 15:57

Tgt Ion: 95 Resp: 190777
Ion Ratio Lower Upper
95 100
174 76.6 0.0 159.4
176 73.8 0.0 157.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052288.D

Acq: 13 Nov 2018 15:57

Instrument :

MSVOA_N

ClientSampleId :

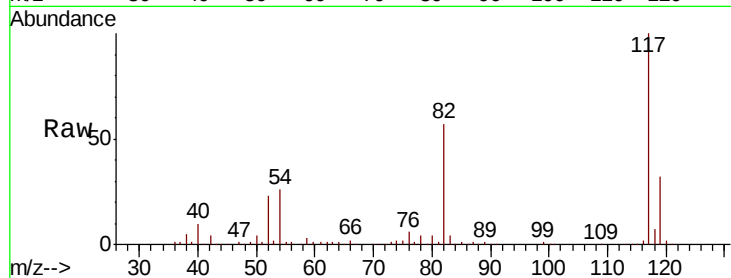
Tot Ion:117 Resp: 464480

Ion Ratio Lower Upper

117 100

82 57.2 46.2 69.2

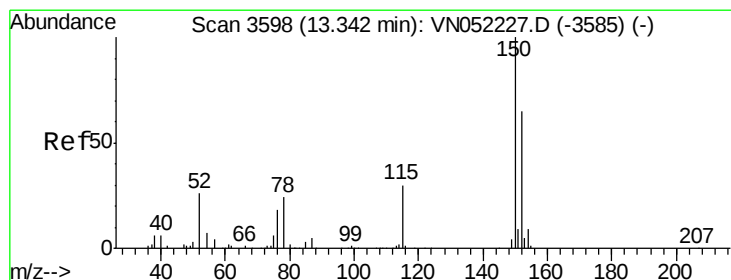
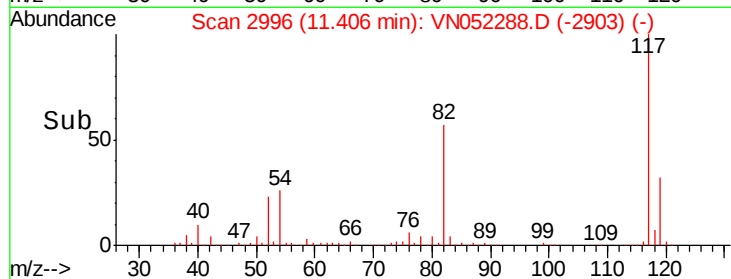
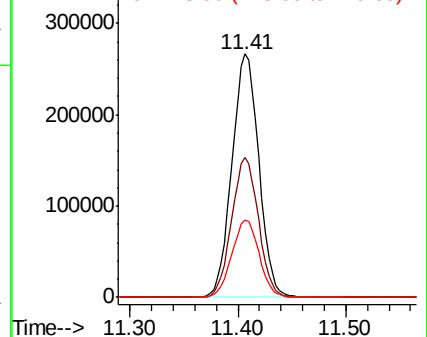
119 31.7 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052288.D

Acq: 13 Nov 2018 15:57

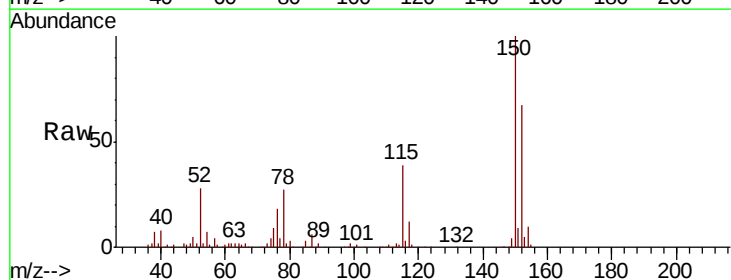
Tgt Ion:152 Resp: 147728

Ion Ratio Lower Upper

152 100

115 59.2 29.8 89.5

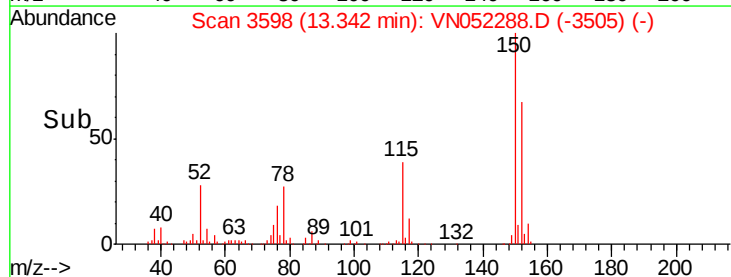
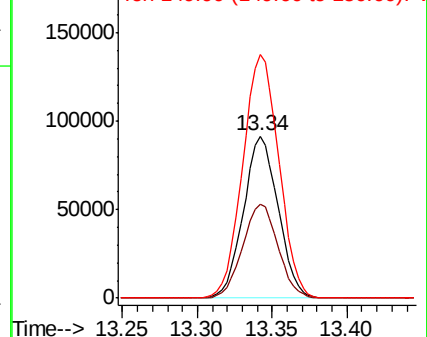
150 156.5 0.0 350.2

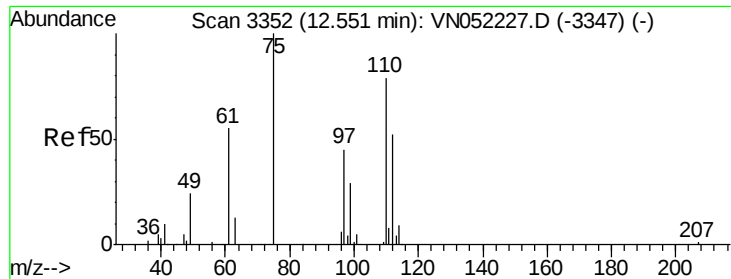


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 40.132 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052288.D

Acq: 13 Nov 2018 15:57

Instrument :

MSVOA_N

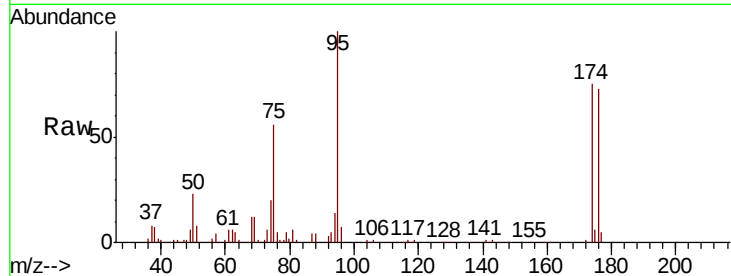
ClientSampled :

Tot Ion: 75 Resp: 104892

Ion Ratio Lower Upper

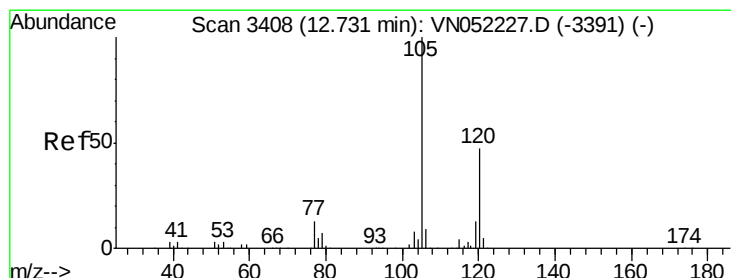
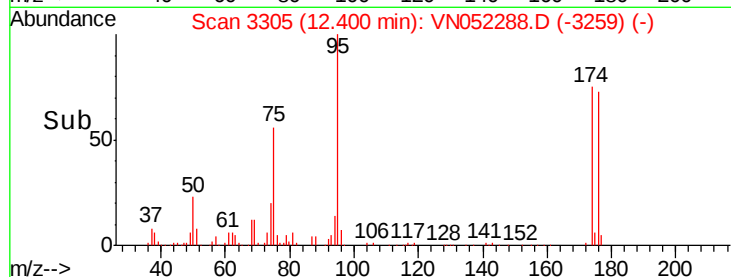
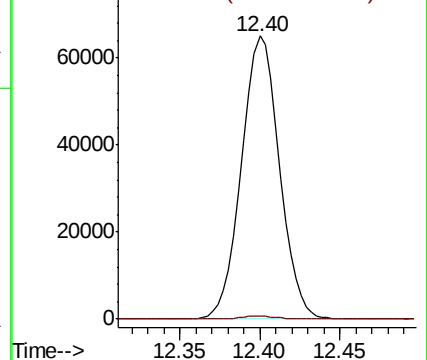
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#80

1,3,5-Trimethylbenzene

Concen: 0.367 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052288.D

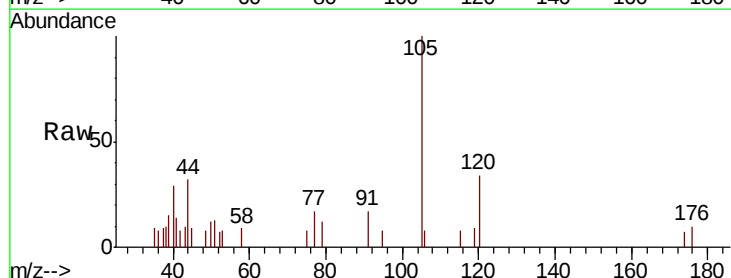
Acq: 13 Nov 2018 15:57

Tgt Ion: 105 Resp: 3520

Ion Ratio Lower Upper

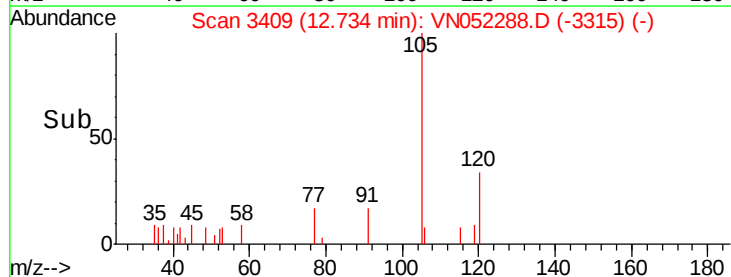
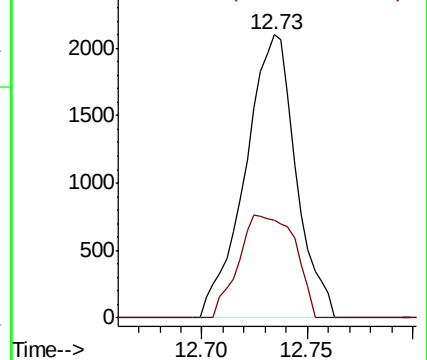
105 100

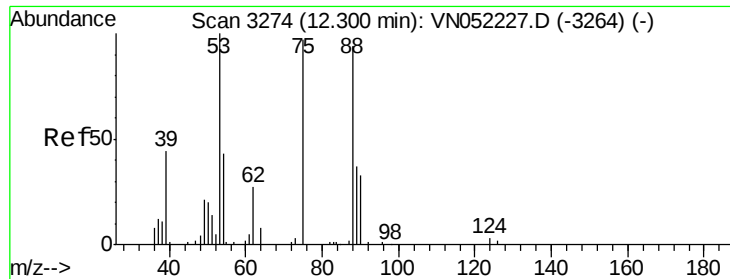
120 40.1 23.9 71.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 136.987 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052288.D

Acq: 13 Nov 2018 15:57

Instrument :

MSVOA_N

ClientSampleId :

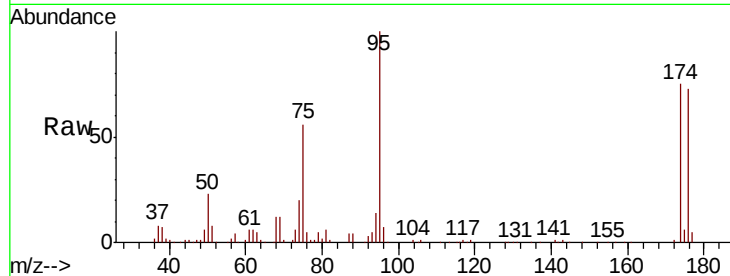
Tot Ion: 75 Resp: 104892

Ion Ratio Lower Upper

75 100

53 0.0 84.0 126.0#

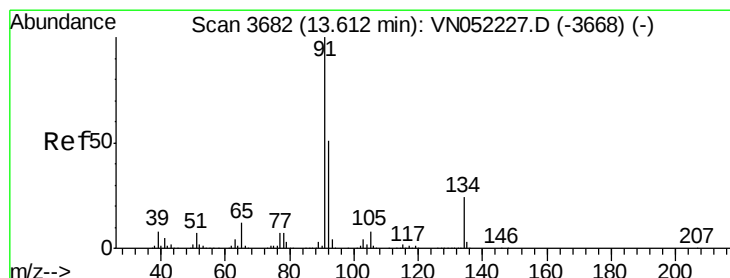
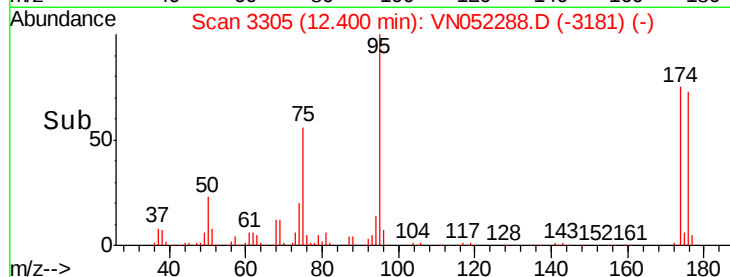
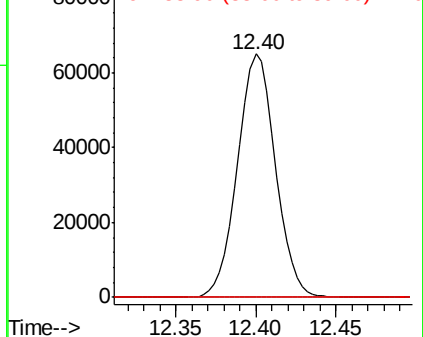
89 0.0 33.7 50.5#



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



#89

n-Butylbenzene

Concen: 0.252 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN052288.D

Acq: 13 Nov 2018 15:57

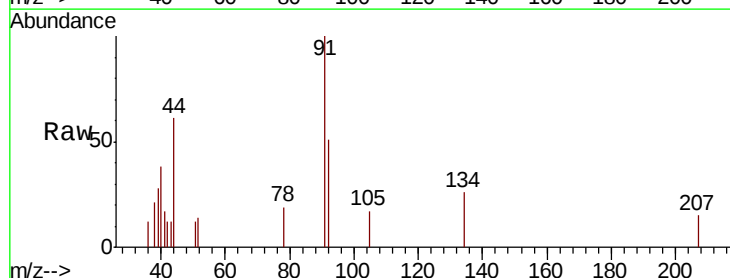
Tgt Ion: 91 Resp: 2161

Ion Ratio Lower Upper

91 100

92 43.8 25.1 75.3

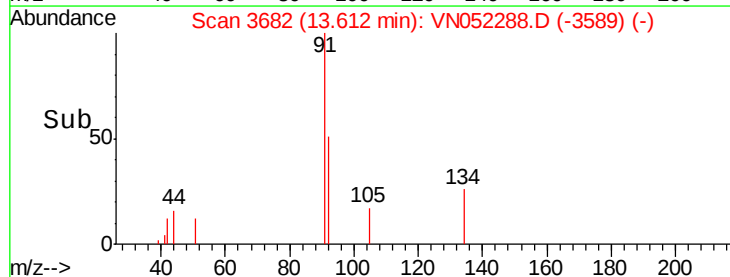
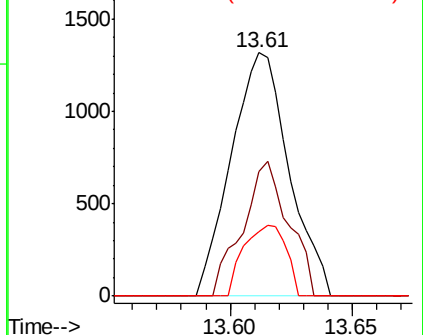
134 21.1 12.0 36.1

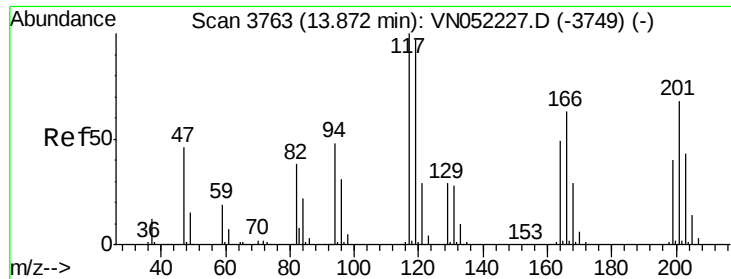


Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): V

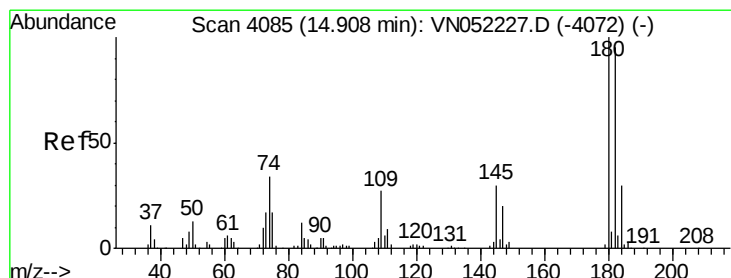
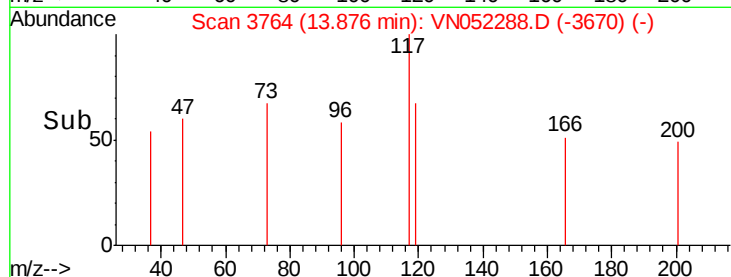
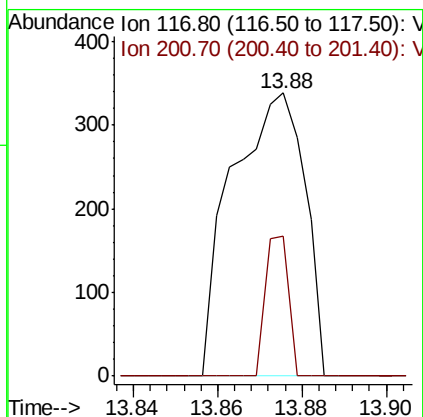
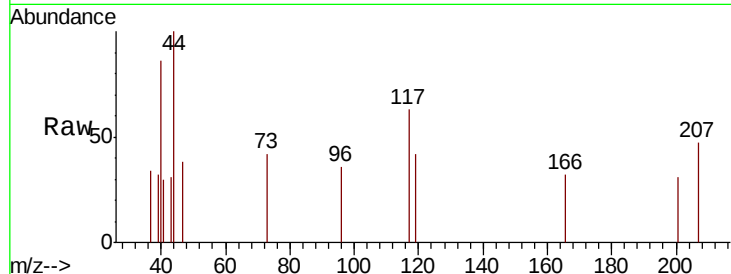




#90
Hexachloroethane
Concen: 0.240 ug/l
RT: 13.88 min Scan# 3764
Delta R.T. 0.00 min
Lab File: VN052288.D
Acq: 13 Nov 2018 15:57

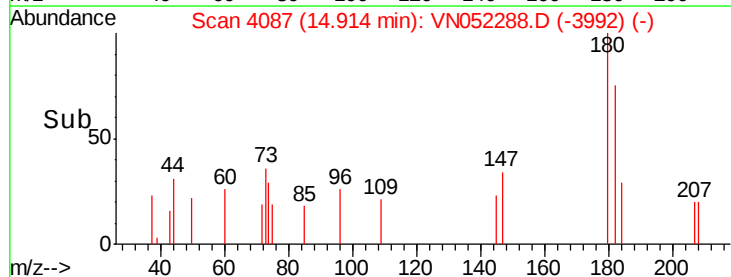
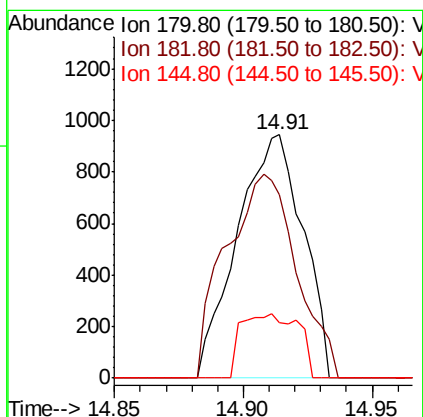
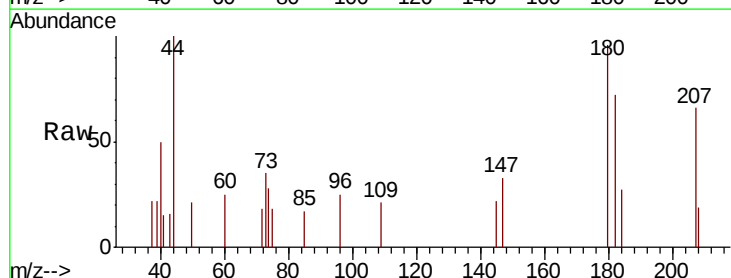
Instrument :
MSVOA_N
ClientSampled :

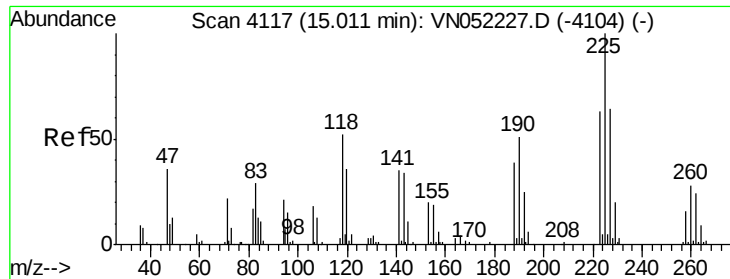
Tot Ion:117 Resp: 406
Ion Ratio Lower Upper
117 100
201 15.8 34.6 103.9#



#93
1,2,4-Trichlorobenzene
Concen: 0.883 ug/l
RT: 14.91 min Scan# 4087
Delta R.T. 0.01 min
Lab File: VN052288.D
Acq: 13 Nov 2018 15:57

Tgt Ion:180 Resp: 1676
Ion Ratio Lower Upper
180 100
182 90.0 47.3 142.0
145 23.0 15.6 46.8





#94

Hexachlorobutadiene

Concen: 0.620 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VN052288.D

Acq: 13 Nov 2018 15:57

Instrument :

MSVOA_N

ClientSampled :

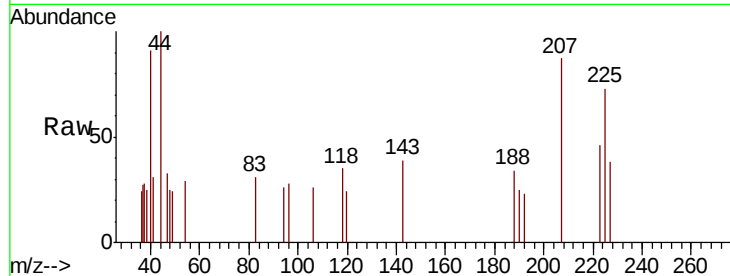
Tot Ion:225 Resp: 640

Ion Ratio Lower Upper

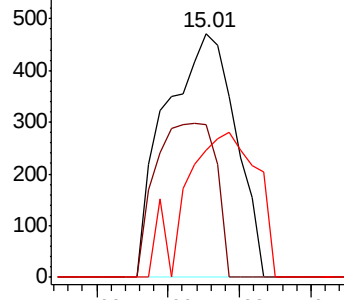
225 100

223 54.4 32.1 96.3

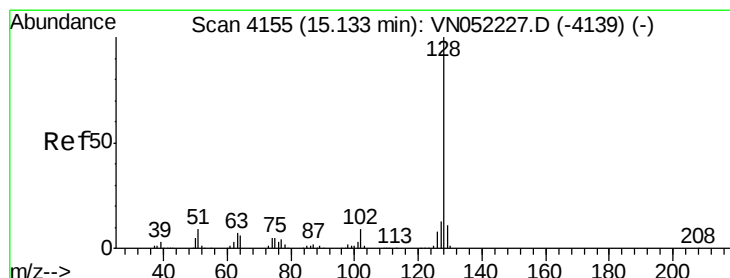
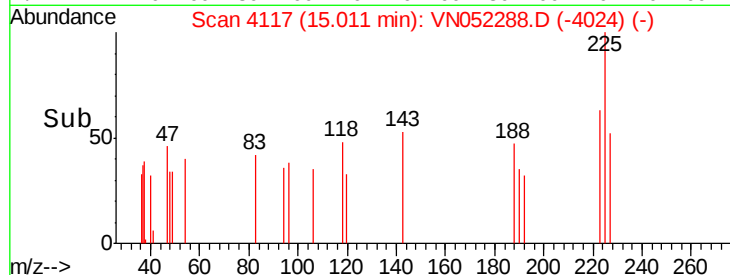
227 60.3 31.8 95.4



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



Time-->



#95

Naphthalene

Concen: 0.832 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052288.D

Acq: 13 Nov 2018 15:57

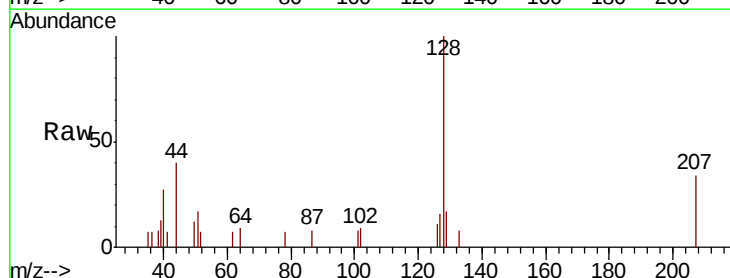
Tgt Ion:128 Resp: 3892

Ion Ratio Lower Upper

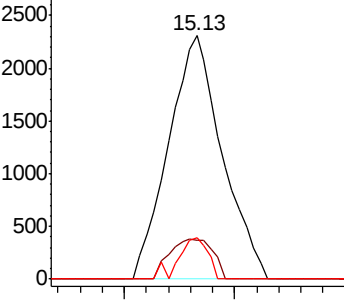
128 100

127 13.3 10.6 16.0

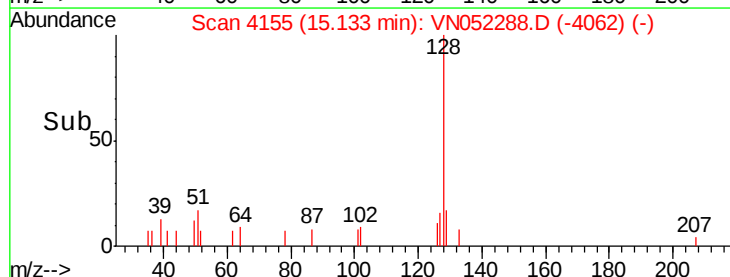
129 9.3 8.7 13.1

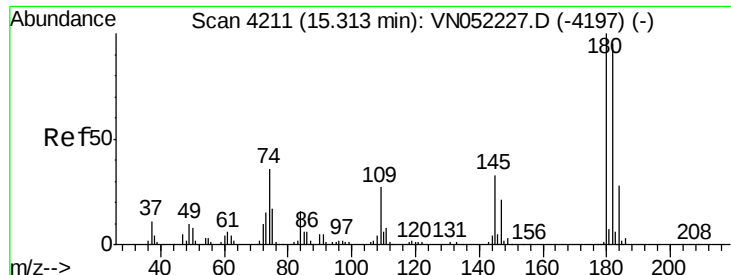


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



Time-->





#96
 1,2,3-Trichlorobenzene
 Concen: 0.980 ug/l
 RT: 15.32 min Scan# 4213
 Delta R.T. 0.01 min
 Lab File: VN052288.D
 Acq: 13 Nov 2018 15:57

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 1759
 Ion Ratio Lower Upper
 180 100
 182 89.9 47.7 143.1
 145 22.1 16.8 50.3

