

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021919\
 Data File : VN053859.D
 Acq On : 19 Feb 2019 10:41
 Operator : JC/SP
 Sample : PB117196TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117196TB

Quant Time: Feb 20 03:16:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	664035	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1125243	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1065895	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	419668	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	358488	53.81	ug/l	0.00
Spiked Amount			Recovery	=	107.62%	
35) Dibromofluoromethane	7.59	113	351401	49.42	ug/l	0.00
Spiked Amount			Recovery	=	98.84%	
50) Toluene-d8	10.09	98	1387517	51.97	ug/l	0.00
Spiked Amount			Recovery	=	103.94%	
62) 4-Bromofluorobenzene	12.40	95	447859	50.30	ug/l	0.00
Spiked Amount			Recovery	=	100.60%	

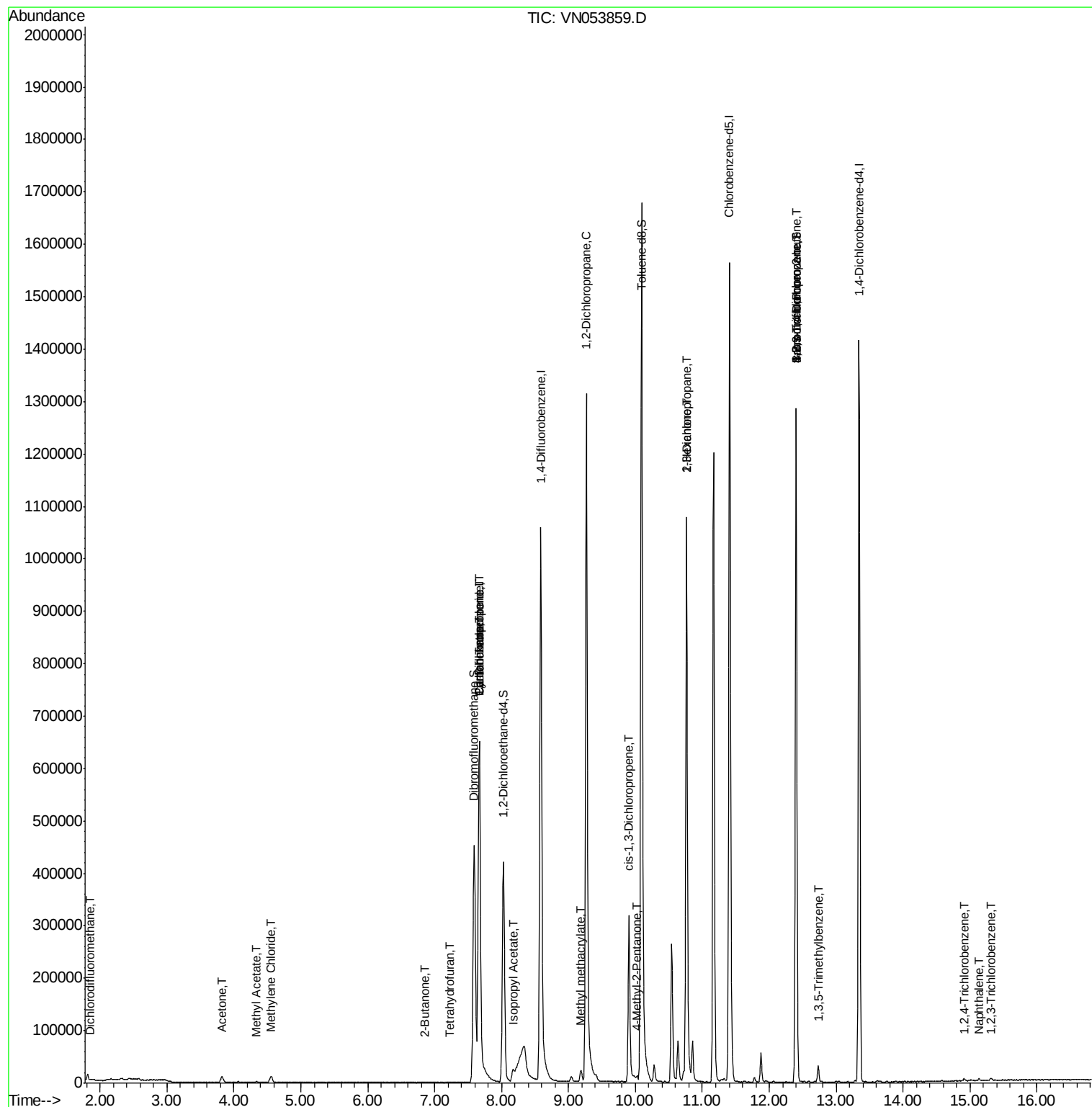
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	63	0.346	ug/l #	42
16) Acetone	3.82	43	21036	12.311	ug/l	97
18) Methyl Acetate	4.34	43	3623	0.716	ug/l #	72
20) Methylene Chloride	4.56	84	9297	1.297	ug/l	88
25) 2-Butanone	6.86	43	2408	0.988	ug/l #	47
29) Tetrahydrofuran	7.22	42	1337	0.854	ug/l #	52
31) Cyclohexane	7.66	56	8937	0.626	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	38795	3.825	ug/l #	49
38) Carbon Tetrachloride	7.66	117	53215	5.208	ug/l #	16
43) Isopropyl Acetate	8.17	43	28999	2.651	ug/l #	84
45) 1,2-Dichloropropane	9.27	63	1869	0.234	ug/l #	43
48) Methyl methacrylate	9.18	41	8616	1.650	ug/l #	12
51) 4-Methyl-2-Pentanone	10.02	43	7552	1.405	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	67426	5.667	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	12040	1.053	ug/l #	43
59) 2-Hexanone	10.76	43	158652	43.469	ug/l #	52
71) Bromoform	12.40	173	3368	0.621	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	207499	38.494	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	16522	0.675	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	207499	108.243	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.91	180	1819	0.232	ug/l #	89
95) Naphthalene	15.14	128	3990	1.945	ug/l	95
96) 1,2,3-Trichlorobenzene	15.32	180	1854	0.255	ug/l	95

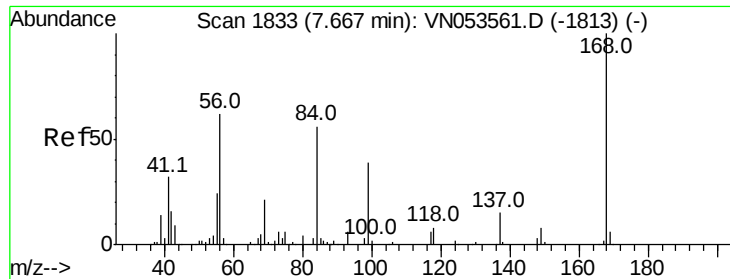
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 20 03:16:20 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
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: VN053859.D

Acq: 19 Feb 2019 10:41

Instrument :

MSVOA_N

ClientSampled :

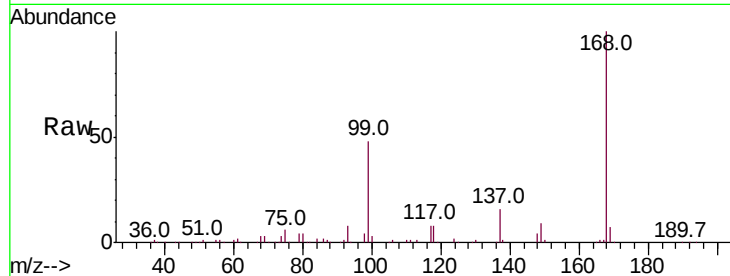
PB117196TB

Tot Ion:168 Resp: 664035

Ion Ratio Lower Upper

168 100

99 47.8 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): VN053859.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN053859.D (-1740) (-)

7.67

250000

200000

150000

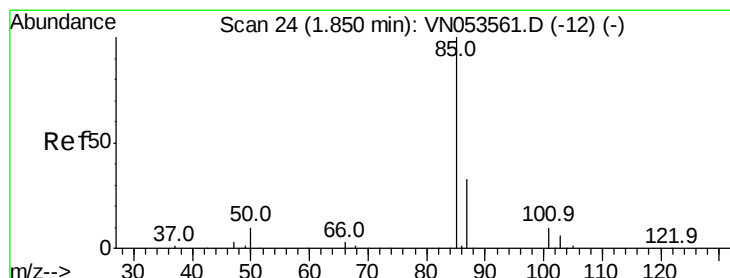
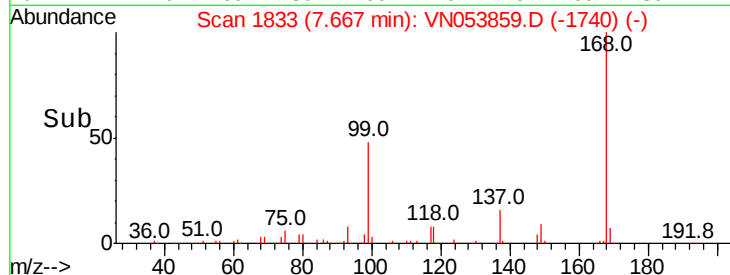
100000

50000

0

7.50 7.60 7.70 7.80 7.90

Time-->



#2

Dichlorodifluoromethane

Concen: 0.346 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053859.D

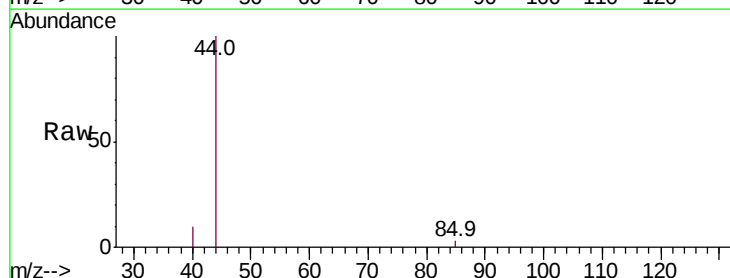
Acq: 19 Feb 2019 10:41

Tgt Ion: 85 Resp: 63

Ion Ratio Lower Upper

85 100

87 0.0 16.2 48.5#



Abundance Ion 84.90 (84.60 to 85.60): VN053859.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VN053859.D (-1) (-)

1.85

200

150

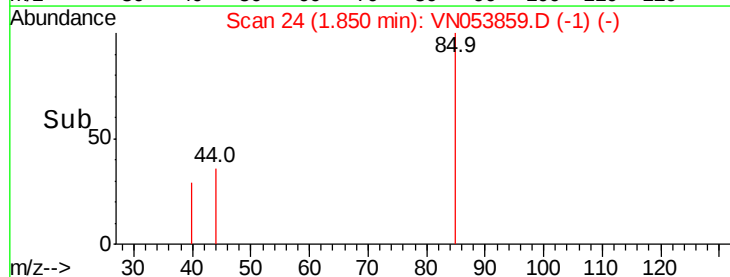
100

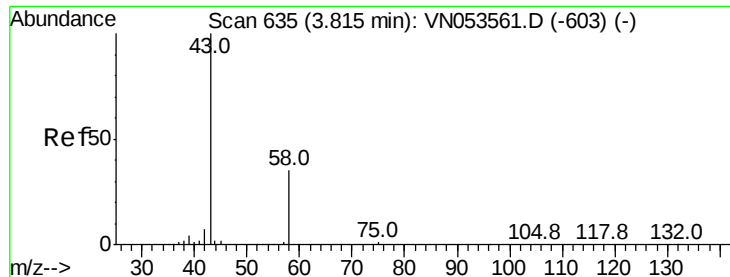
50

0

1.84 1.85 1.86

Time-->





#16

Acetone

Concen: 12.311 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053859.D

Acq: 19 Feb 2019 10:41

Instrument :

MSVOA_N

ClientSampleId :

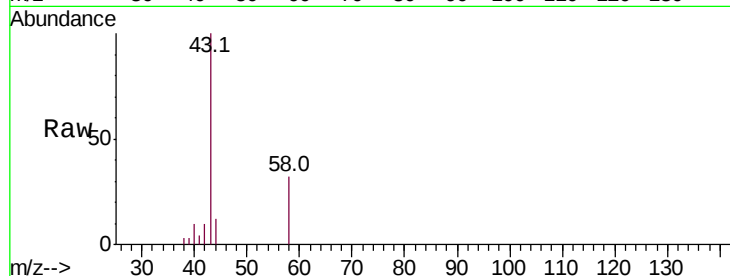
PB117196TB

Tot Ion: 43 Resp: 21036

Ion Ratio Lower Upper

43 100

58 32.2 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

8000

6000

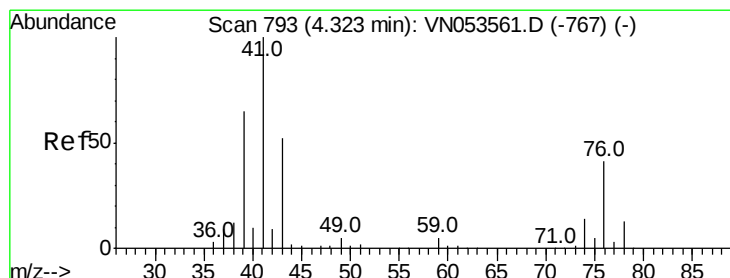
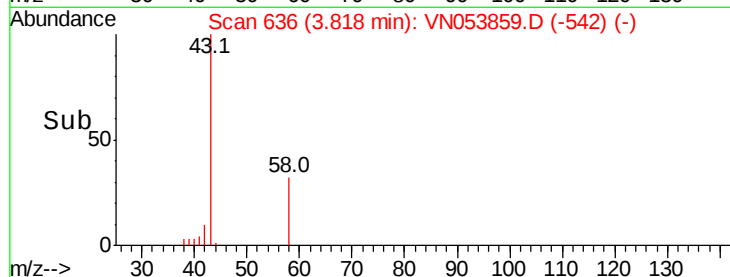
4000

2000

0

Time--> 3.70 3.80 3.90

3.82



#18

Methyl Acetate

Concen: 0.716 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.02 min

Lab File: VN053859.D

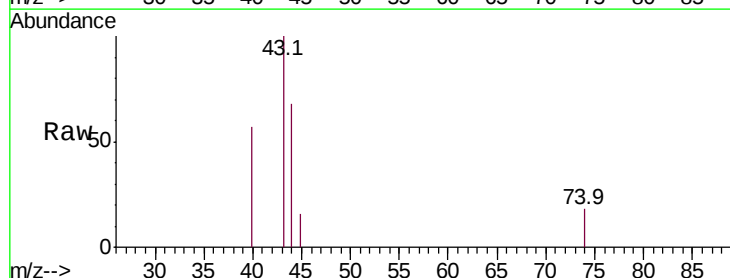
Acq: 19 Feb 2019 10:41

Tgt Ion: 43 Resp: 3623

Ion Ratio Lower Upper

43 100

74 10.5 19.4 29.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

1200

1000

800

600

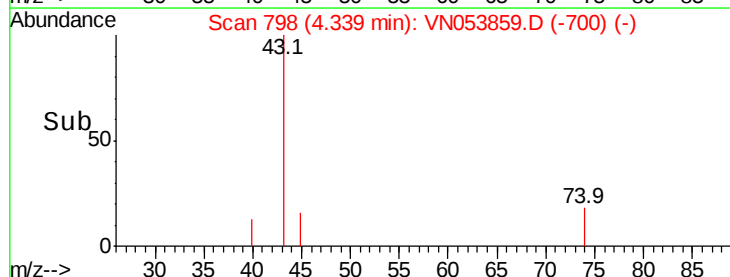
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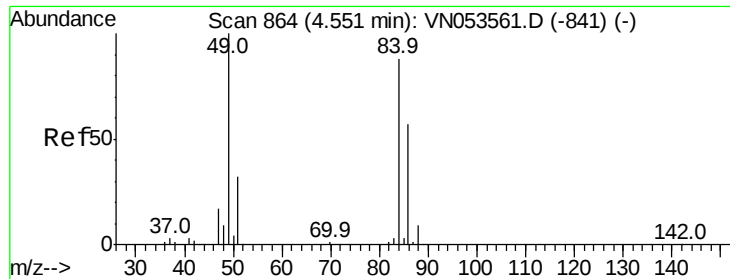
200

0

Time--> 4.25 4.30 4.35 4.40

4.34

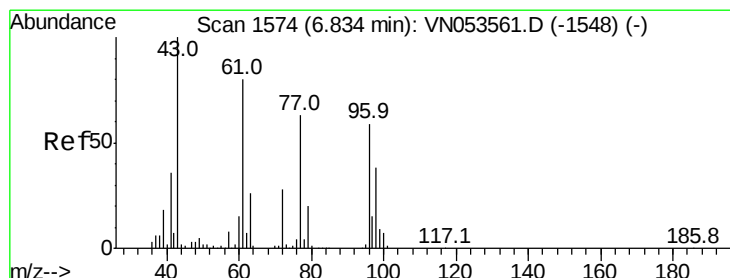
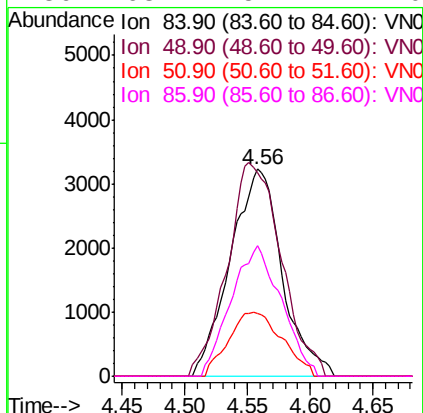
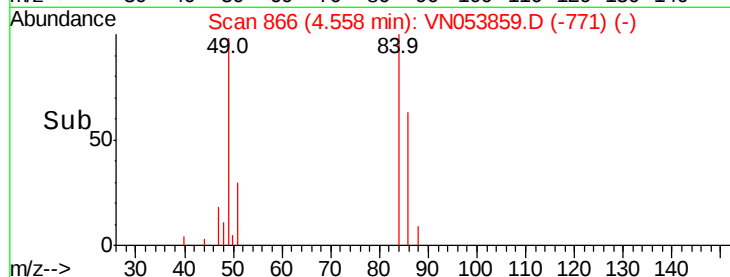
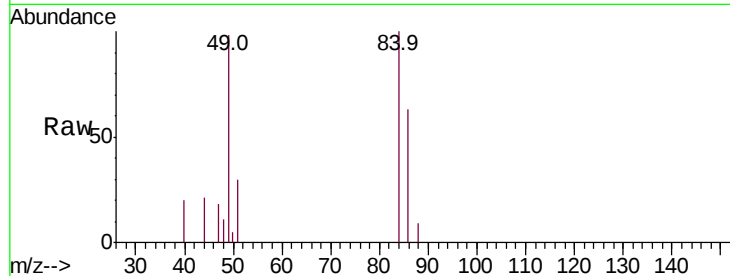




#20
Methvlene Chloride
Concen: 1.297 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053859.D
Acq: 19 Feb 2019 10:41

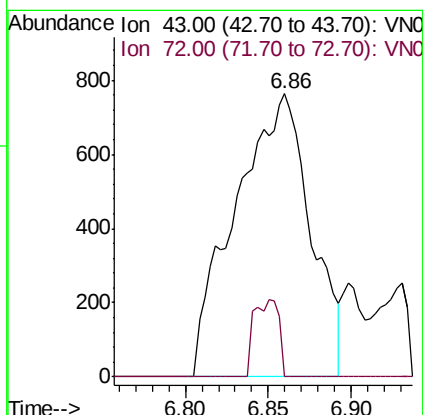
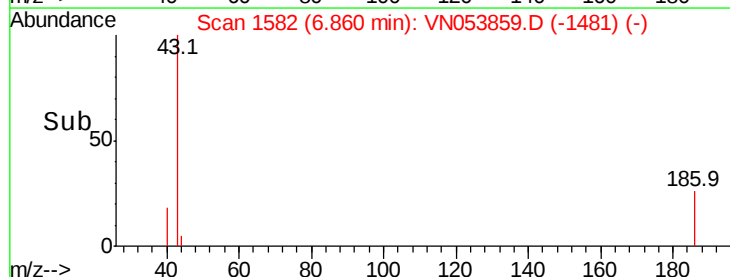
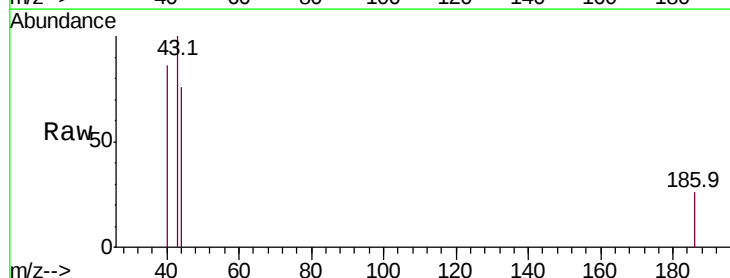
Instrument :
MSVOA_N
ClientSampleId :
PB117196TB

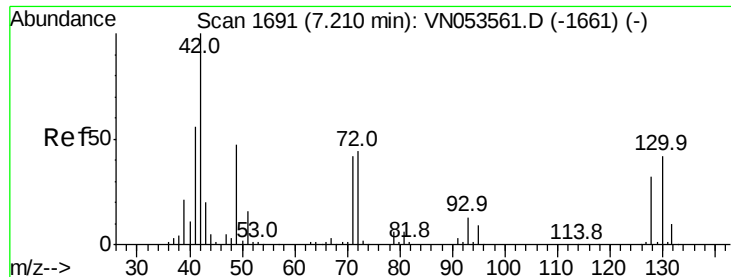
Tot Ion:	84	Resp:	9297
Ion	Ratio	Lower	Upper
84	100		
49	98.0	94.3	141.5
51	30.4	29.4	44.2
86	63.1	51.4	77.0



#25
2-Butanone
Concen: 0.988 ug/l
RT: 6.86 min Scan# 1582
Delta R.T. 0.03 min
Lab File: VN053859.D
Acq: 19 Feb 2019 10:41

Tgt Ion:	43	Resp:	2408
Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.0	33.0#

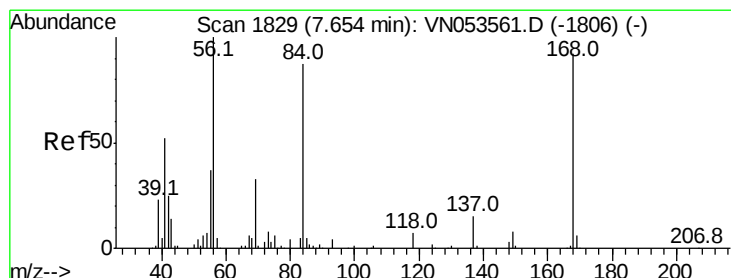
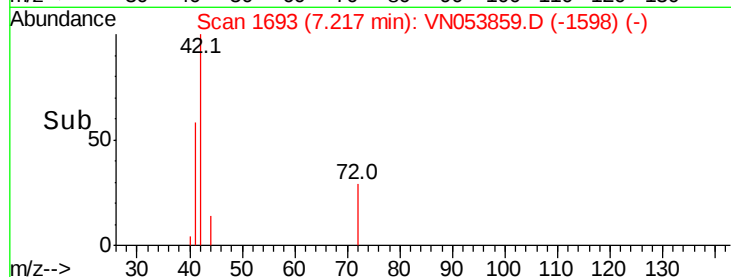
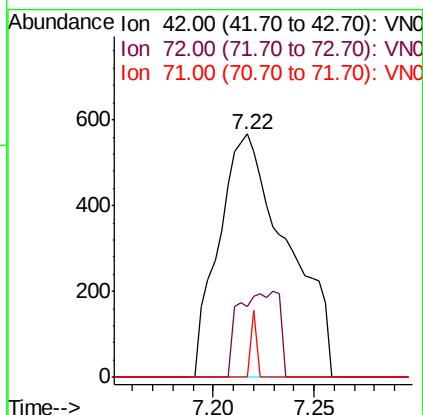
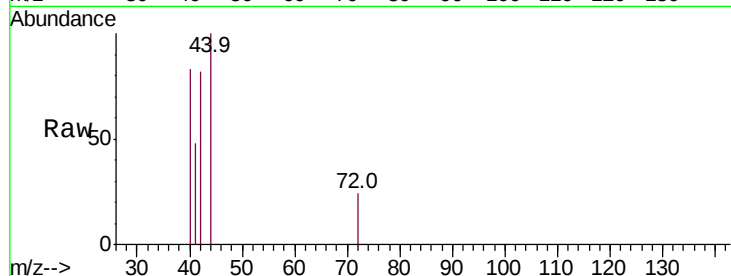




#29
Tetrahydrofuran
Concen: 0.854 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.01 min
Lab File: VN053859.D
Acq: 19 Feb 2019 10:41

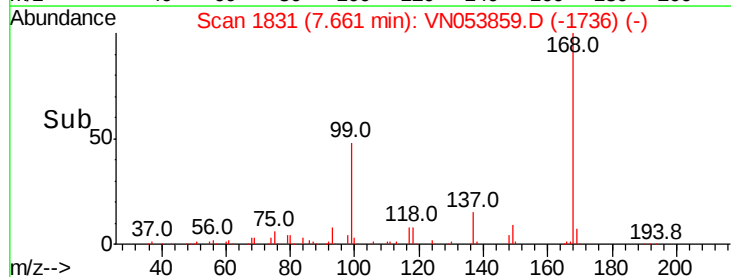
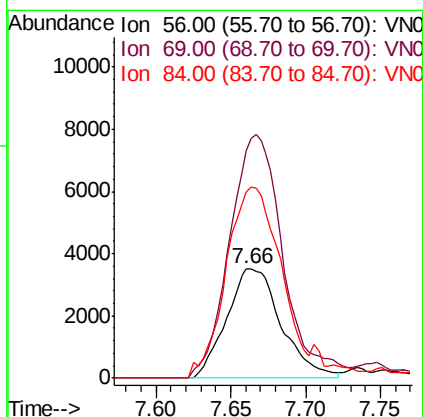
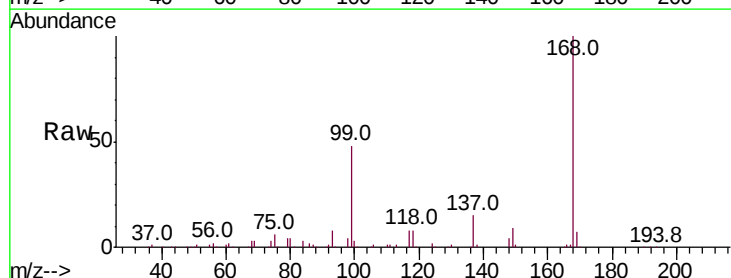
Instrument :
MSVOA_N
ClientSampled :
PB117196TB

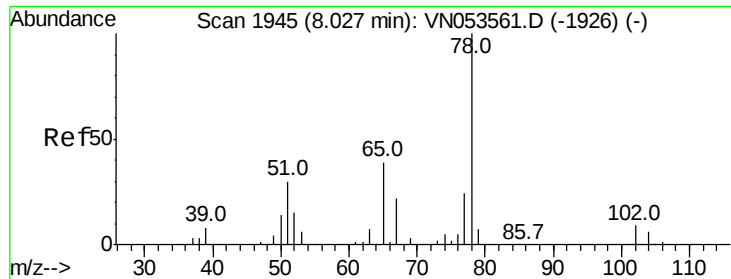
Tot Ion: 42 Resp: 1337
Ion Ratio Lower Upper
42 100
72 21.2 35.2 52.8#
71 2.2 33.0 49.4#



#31
Cyclohexane
Concen: 0.626 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN053859.D
Acq: 19 Feb 2019 10:41

Tgt Ion: 56 Resp: 8937
Ion Ratio Lower Upper
56 100
69 207.2 26.4 39.6#
84 169.9 67.9 101.9#

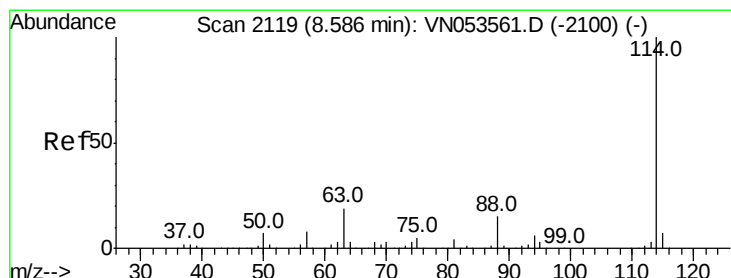
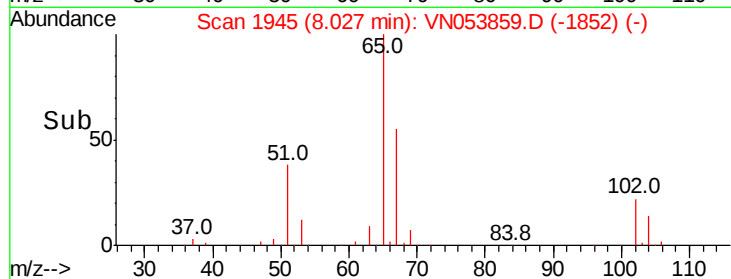
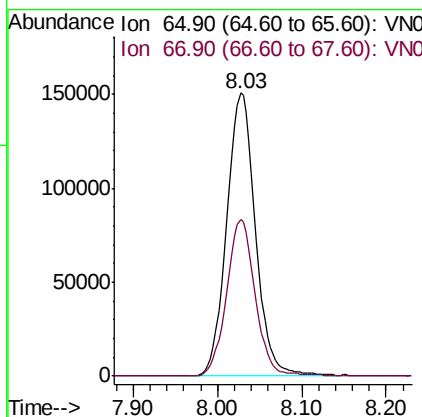
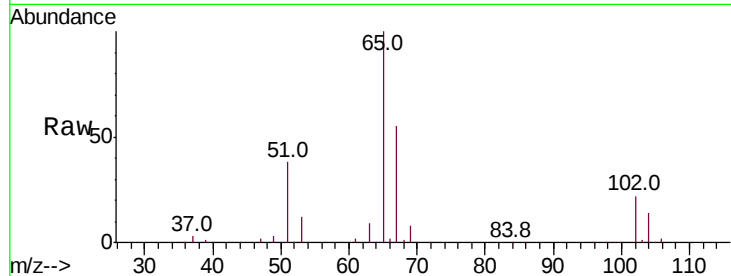




#33
 1,2-Dichloroethane-d4
 Concen: 53.815 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053859.D
 Acq: 19 Feb 2019 10:41

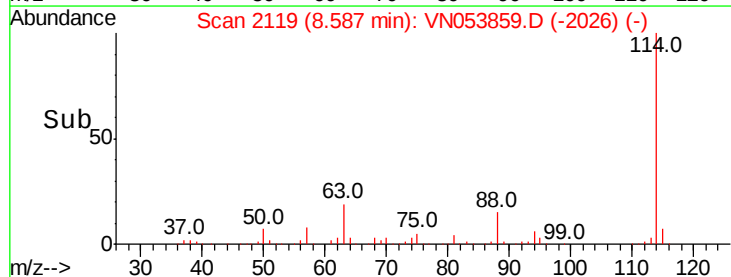
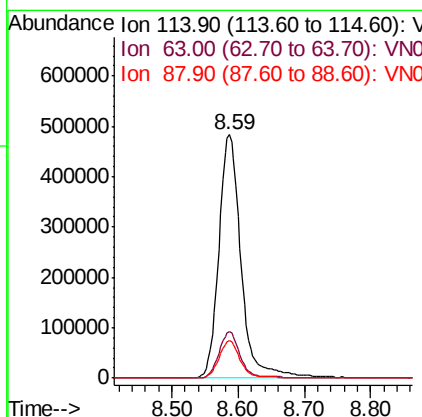
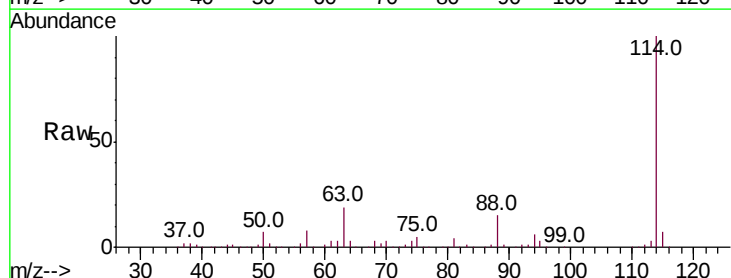
Instrument :
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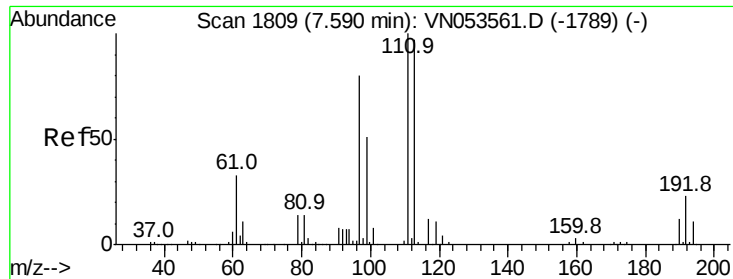
Tot Ion: 65 Resp: 358488
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 111.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053859.D
 Acq: 19 Feb 2019 10:41

Tgt Ion: 114 Resp: 1125243
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 38.6
 88 15.2 0.0 30.4





#35

Dibromofluoromethane

Concen: 49.423 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053859.D

Acq: 19 Feb 2019 10:41

Instrument :

MSVOA_N

ClientSampleId :

PB117196TB

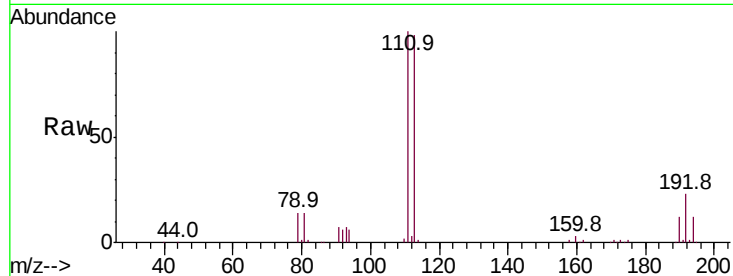
Tot Ion:113 Resp: 351401

Ion Ratio Lower Upper

113 100

111 102.1 81.1 121.7

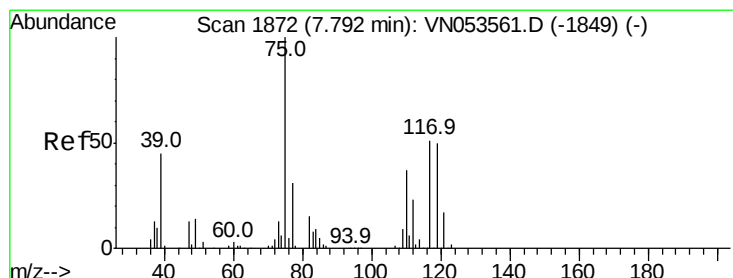
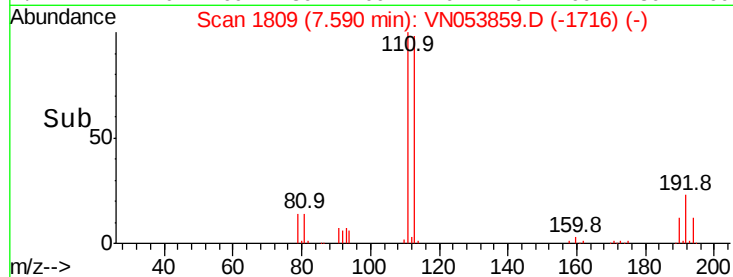
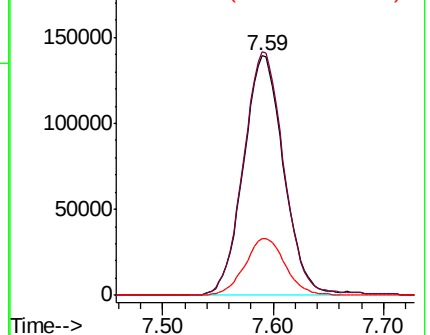
192 24.1 18.2 27.2



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: 3.825 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053859.D

Acq: 19 Feb 2019 10:41

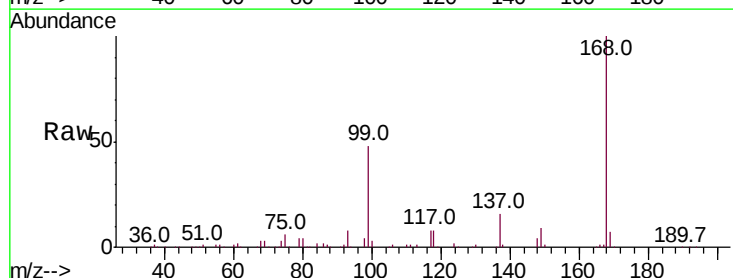
Tgt Ion: 75 Resp: 38795

Ion Ratio Lower Upper

75 100

110 8.6 18.1 54.3#

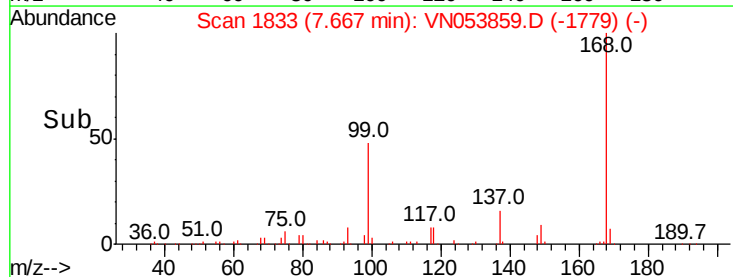
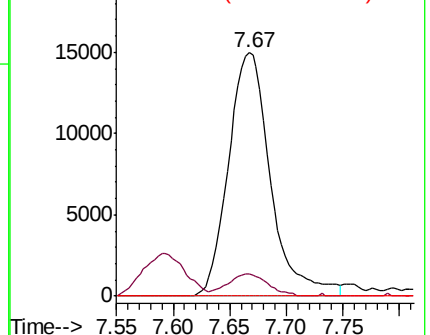
77 0.0 25.1 37.7#

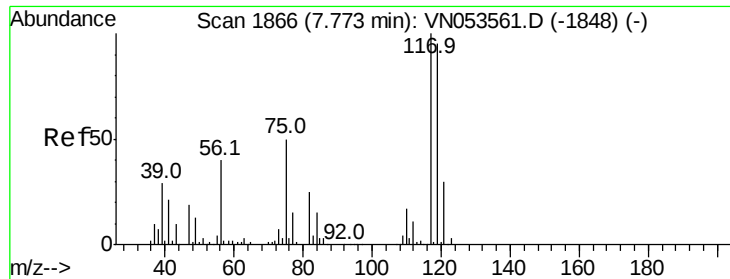


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

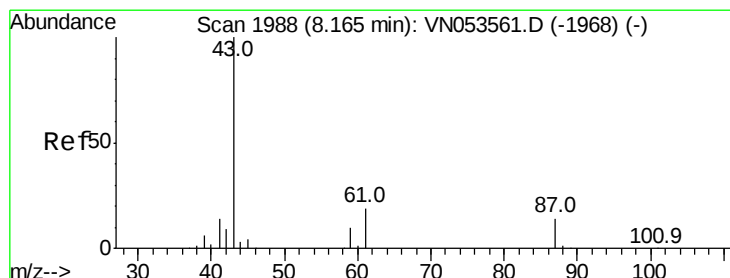
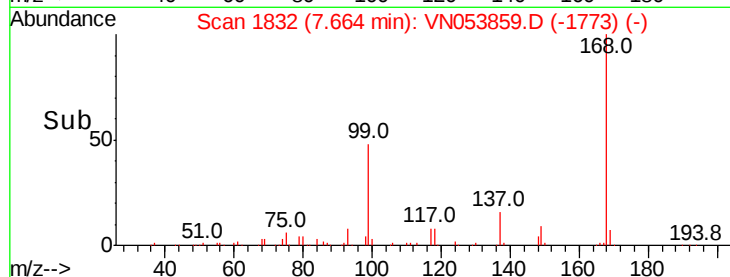
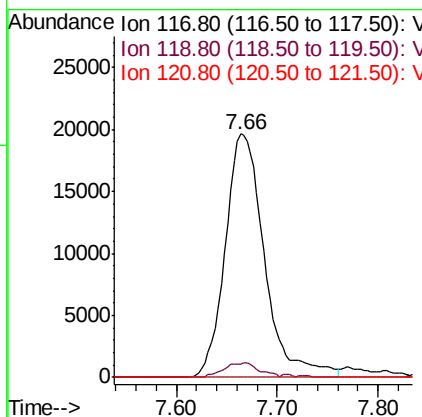
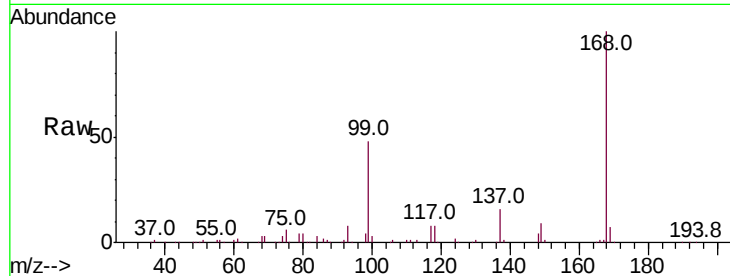




#38
Carbon Tetrachloride
Concen: 5.208 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN053859.D
Acq: 19 Feb 2019 10:41

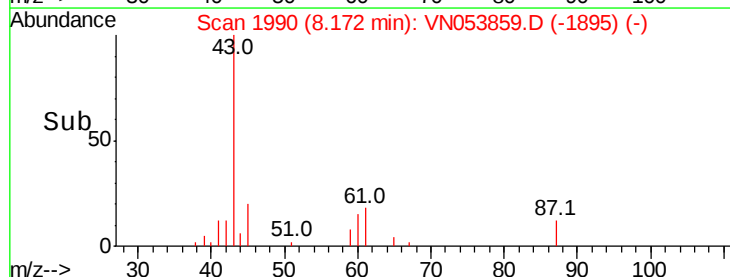
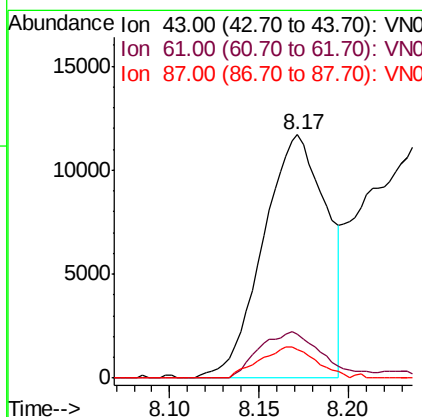
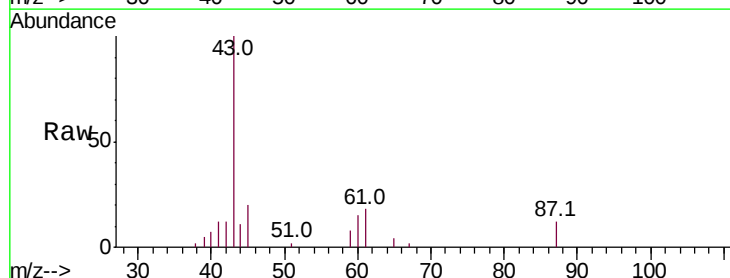
Instrument :
MSVOA_N
ClientSampled :
PB117196TB

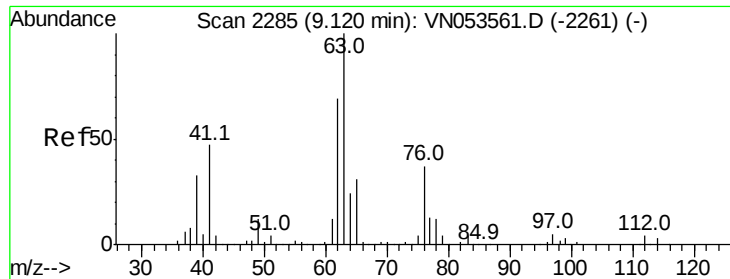
Tot Ion:117 Resp: 53215
Ion Ratio Lower Upper
117 100
119 5.6 77.2 115.8#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 2.651 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.01 min
Lab File: VN053859.D
Acq: 19 Feb 2019 10:41

Tgt Ion: 43 Resp: 28999
Ion Ratio Lower Upper
43 100
61 19.1 23.9 35.9#
87 11.3 11.0 16.6





#45

1,2-Dichloropropane

Concen: 0.234 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN053859.D

Acq: 19 Feb 2019 10:41

Instrument :

MSVOA_N

ClientSampleId :

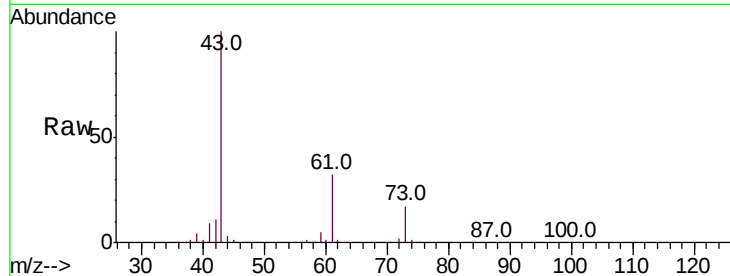
PB117196TB

Tot Ion: 63 Resp: 1869

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO

9.27

1200

1000

800

600

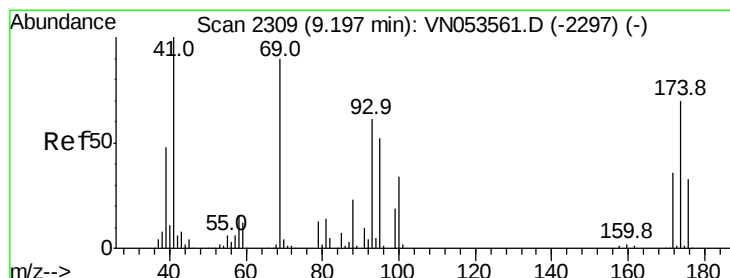
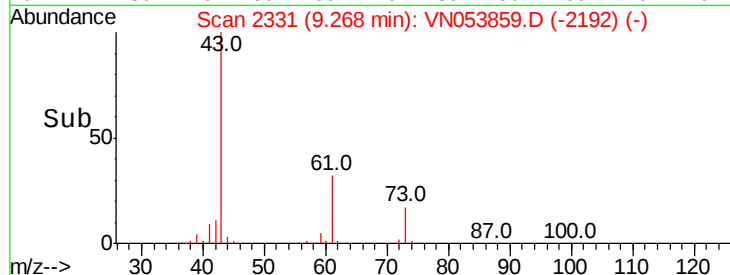
400

200

0

9.25 9.30

Time-->



#48

Methyl methacrylate

Concen: 1.650 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN053859.D

Acq: 19 Feb 2019 10:41

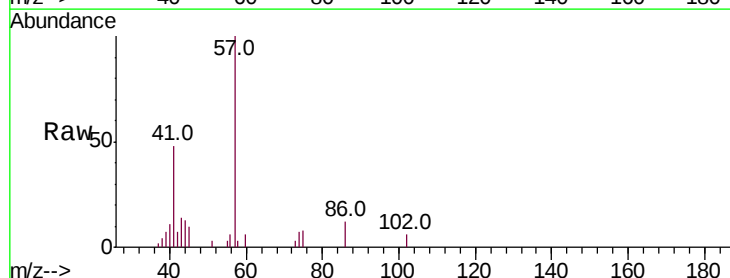
Tgt Ion: 41 Resp: 8616

Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

39 0.0 40.0 60.0#



Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

30000

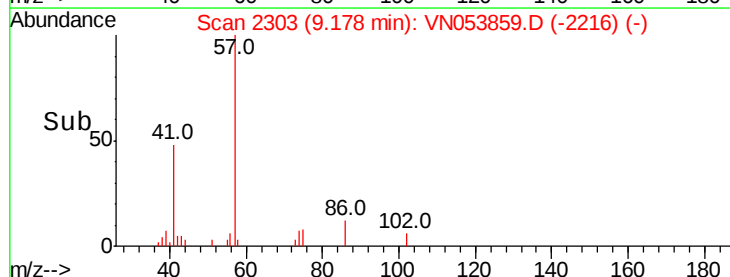
20000

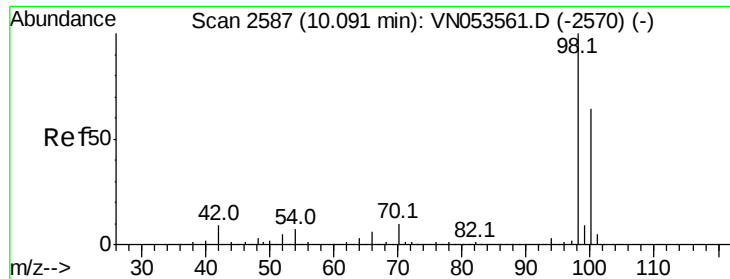
10000

0

9.15 9.20

Time-->





#50

Toluene-d8

Concen: 51.973 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053859.D

Acq: 19 Feb 2019 10:41

Instrument :

MSVOA_N

ClientSampleId :

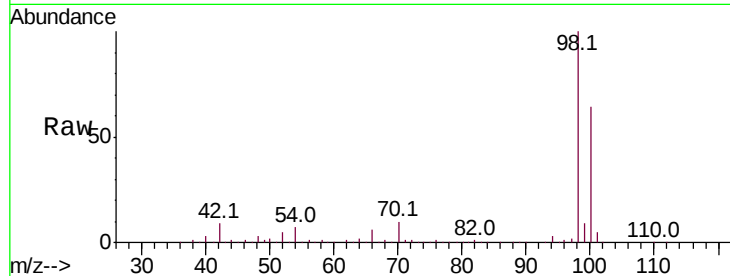
PB117196TB

Tot Ion: 98 Resp: 1387517

Ion Ratio Lower Upper

98 100

100 64.5 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053561.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN053561.D (-2570) (-)

10.09

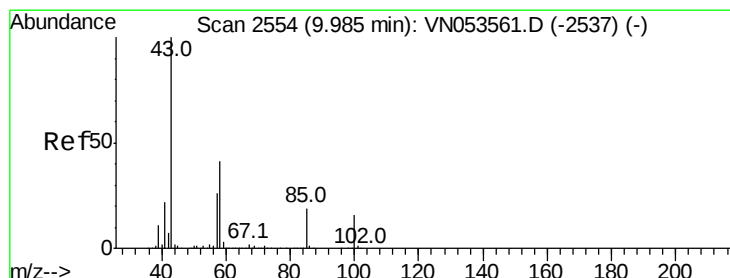
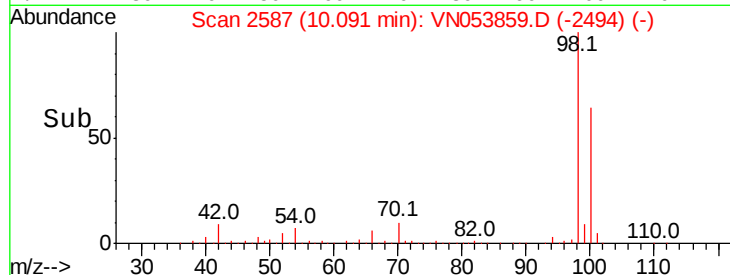
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.405 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053859.D

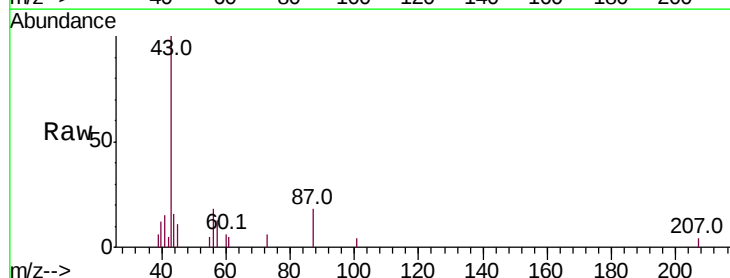
Acq: 19 Feb 2019 10:41

Tgt Ion: 43 Resp: 7552

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN053561.D (-2537) (-)

10.02

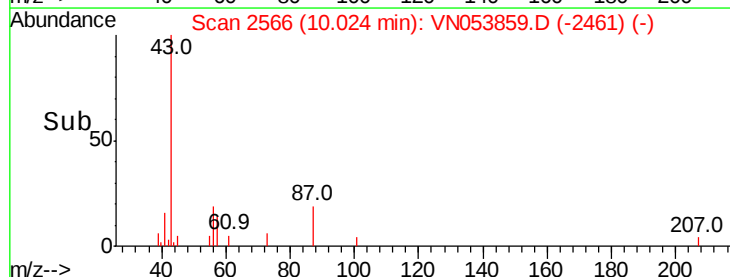
6000

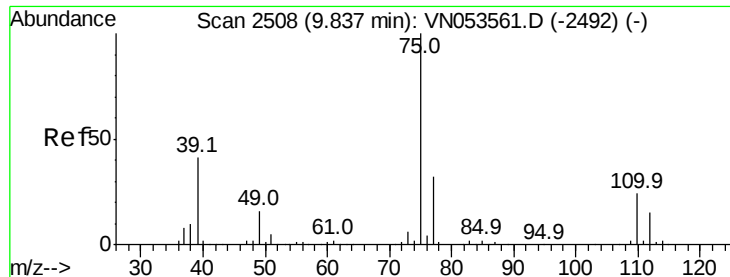
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 5.667 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053859.D

Acq: 19 Feb 2019 10:41

Instrument :

MSVOA_N

ClientSampleId :

PB117196TB

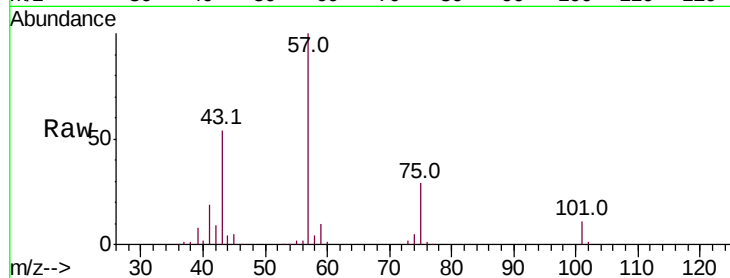
Tot Ion: 75 Resp: 67426

Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.6#

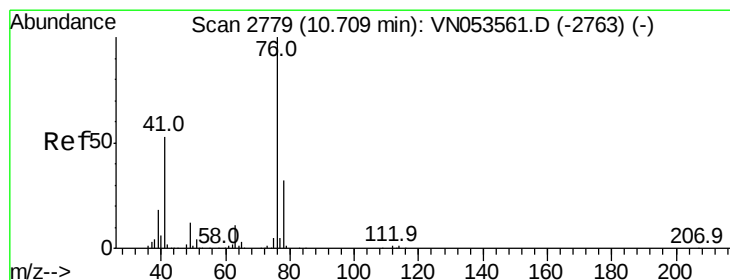
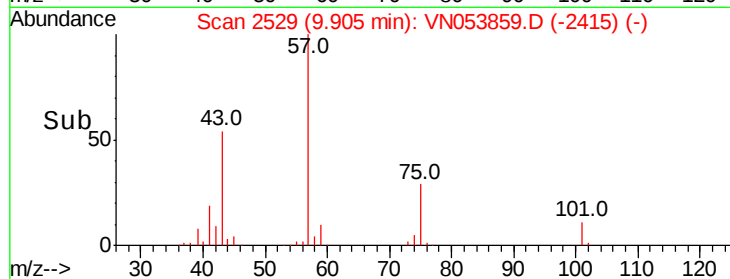
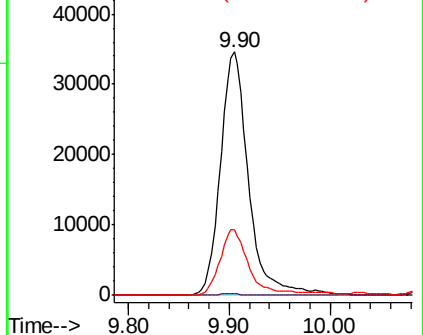
39 26.7 33.4 50.0#



Abundance Ion 74.90 (74.60 to 75.60): VNC

Ion 76.90 (76.60 to 77.60): VNC

Ion 39.00 (38.70 to 39.70): VNC



#57

1,3-Dichloropropane

Concen: 1.053 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053859.D

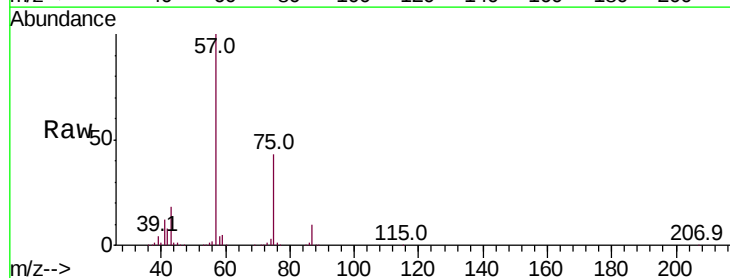
Acq: 19 Feb 2019 10:41

Tgt Ion: 76 Resp: 12040

Ion Ratio Lower Upper

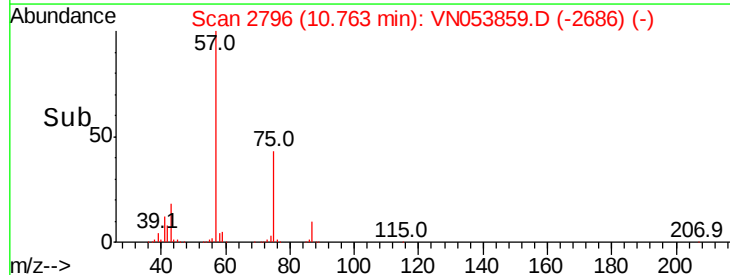
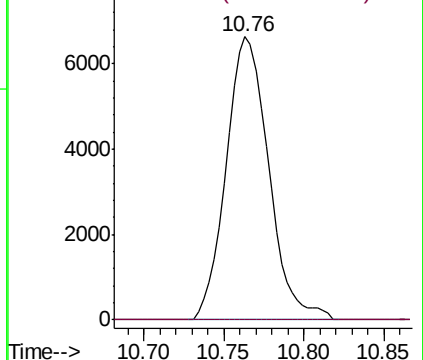
76 100

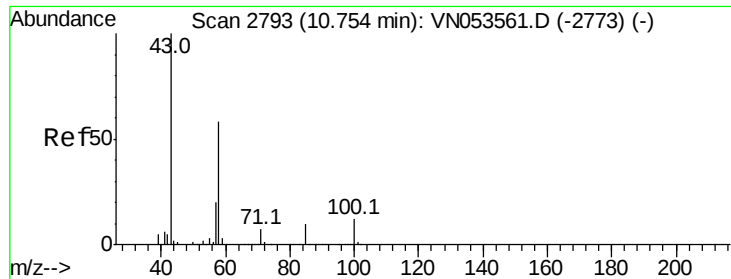
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC

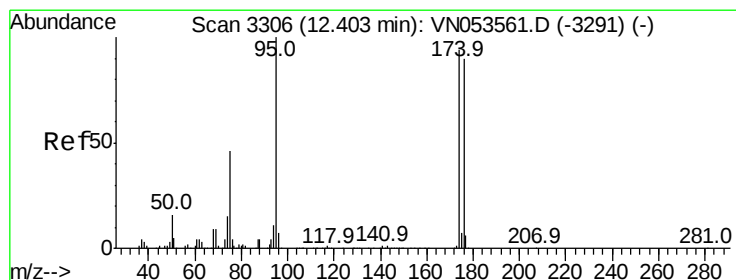
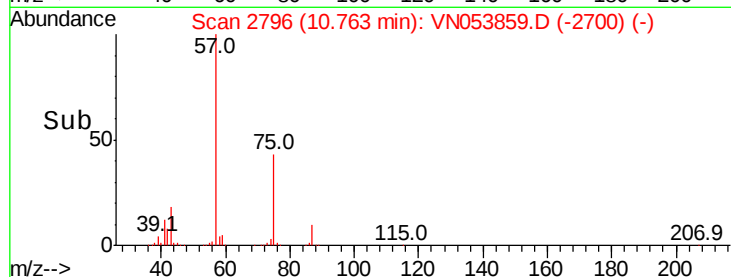
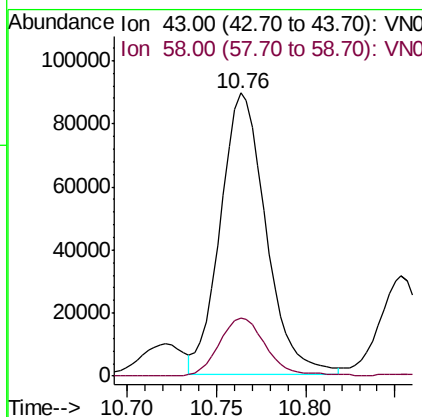
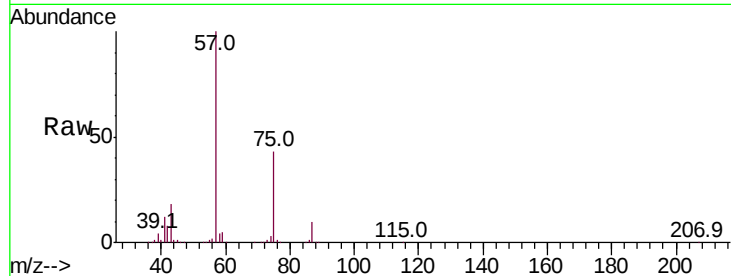




#59
2-Hexanone
Concen: 43.469 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053859.D
Acq: 19 Feb 2019 10:41

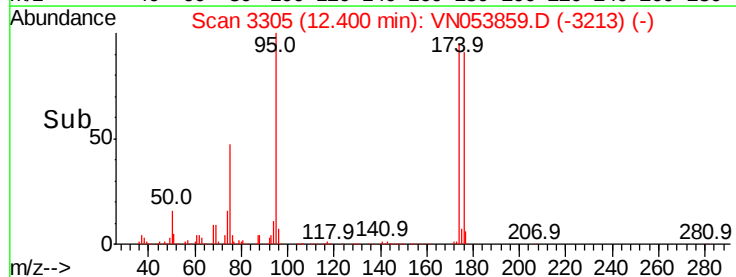
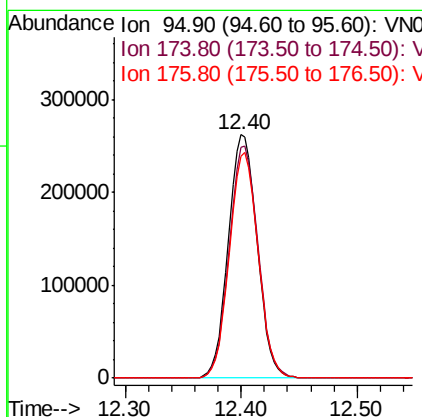
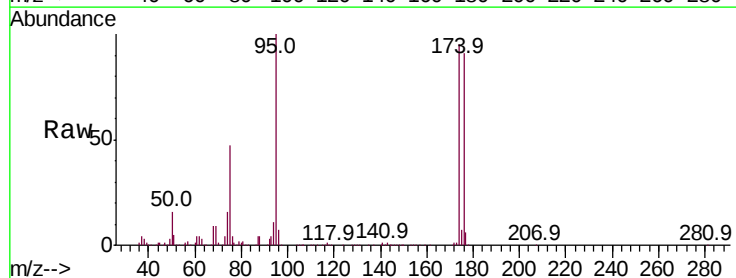
Instrument :
MSVOA_N
ClientSampled :
PB117196TB

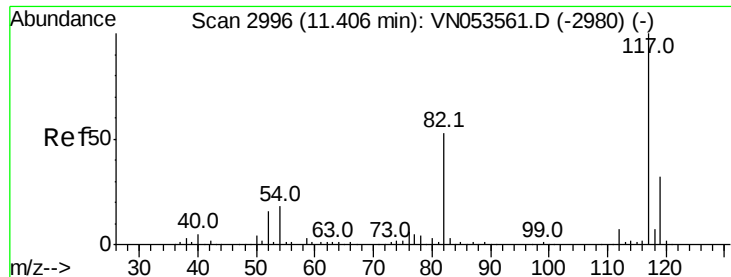
Tot Ion: 43 Resp: 158652
Ion Ratio Lower Upper
43 100
58 21.5 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: 50.299 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053859.D
Acq: 19 Feb 2019 10:41

Tgt Ion: 95 Resp: 447859
Ion Ratio Lower Upper
95 100
174 95.8 0.0 183.2
176 92.5 0.0 177.4

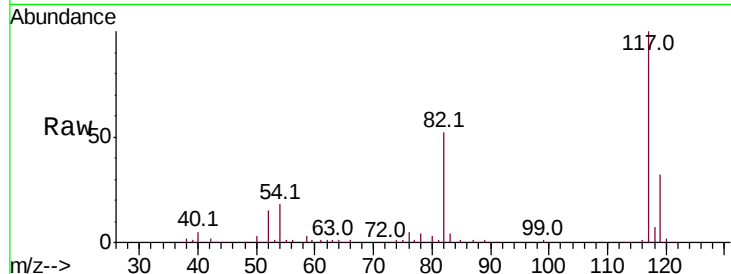




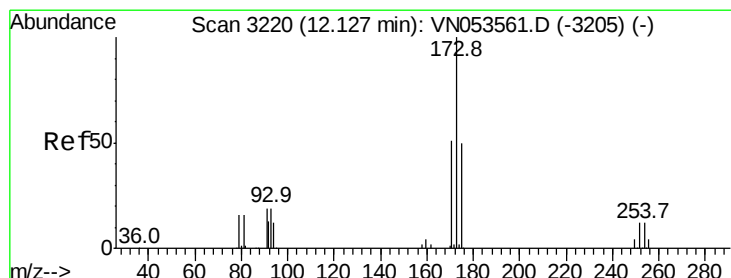
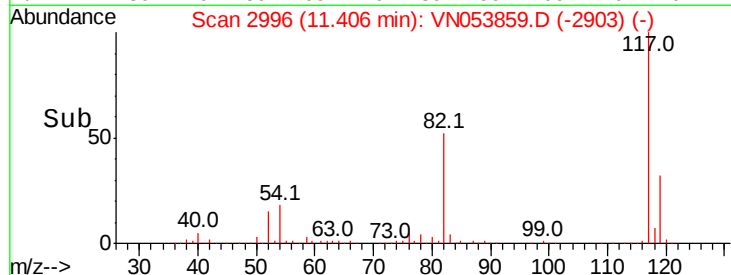
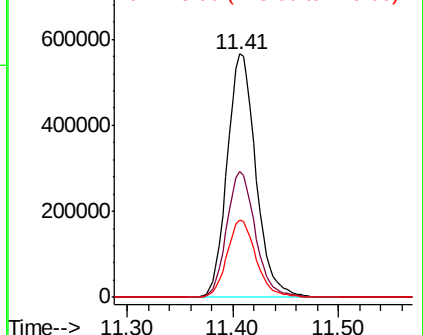
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053859.D
Acq: 19 Feb 2019 10:41

Instrument :
MSVOA_N
ClientSampled :
PB117196TB

Tot Ion:117 Resp: 1065895
Ion Ratio Lower Upper
117 100
82 51.6 42.9 64.3
119 31.6 26.0 39.0

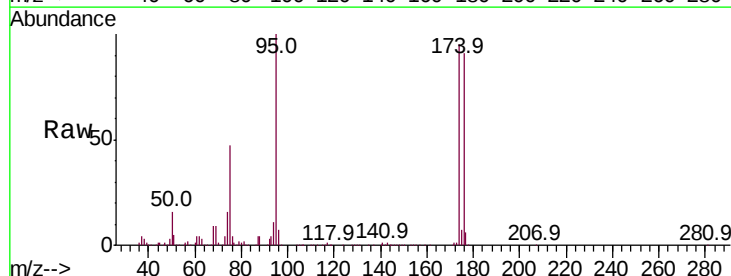


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

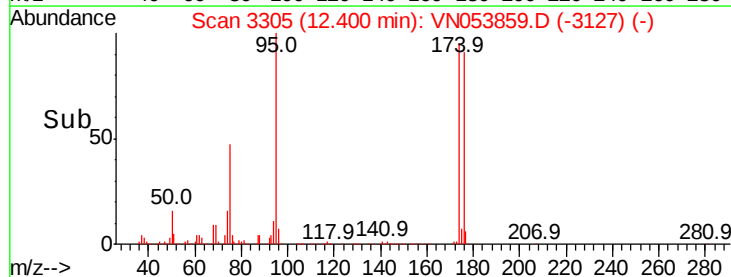
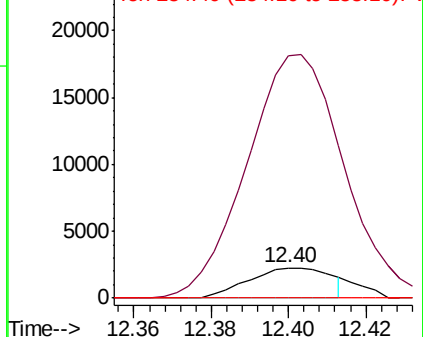


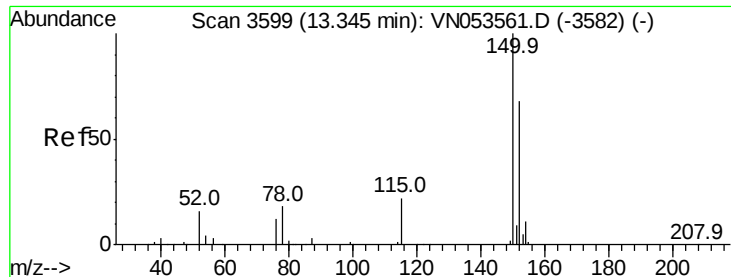
#71
Bromoform
Concen: 0.621 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053859.D
Acq: 19 Feb 2019 10:41

Tgt Ion:173 Resp: 3368
Ion Ratio Lower Upper
173 100
175 815.0 24.6 74.0#
254 0.0 0.2 0.2#



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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053859.D

Acq: 19 Feb 2019 10:41

Instrument :

MSVOA_N

ClientSampled :

PB117196TB

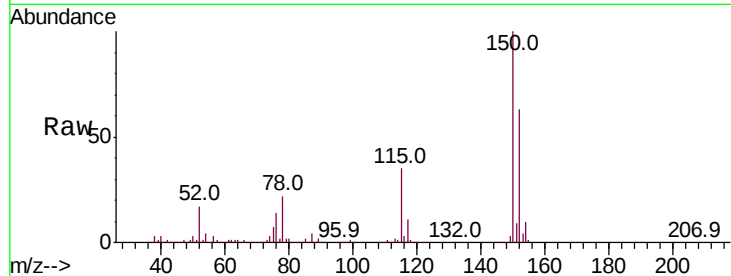
Tot Ion:152 Resp: 419668

Ion Ratio Lower Upper

152 100

115 55.1 27.8 83.4

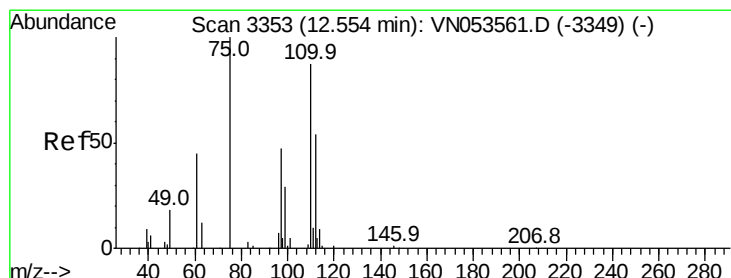
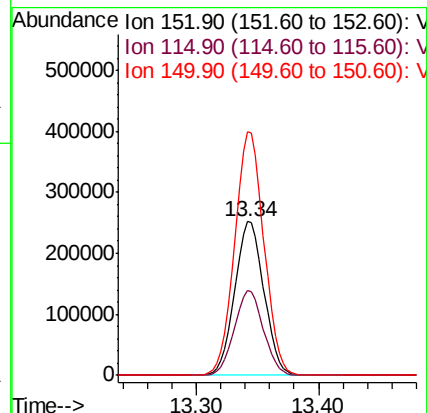
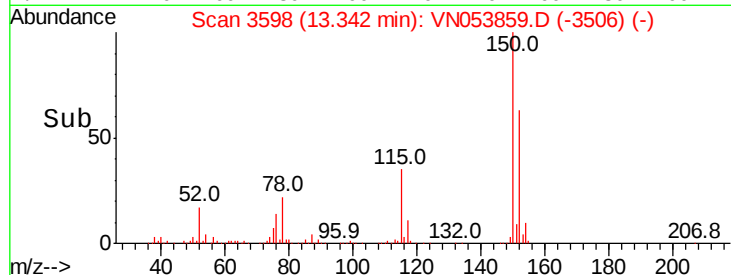
150 158.3 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 38.494 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053859.D

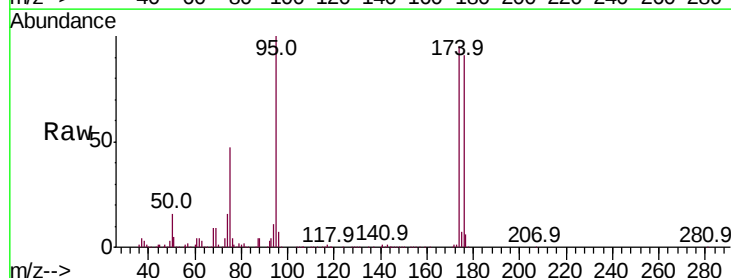
Acq: 19 Feb 2019 10:41

Tgt Ion: 75 Resp: 207499

Ion Ratio Lower Upper

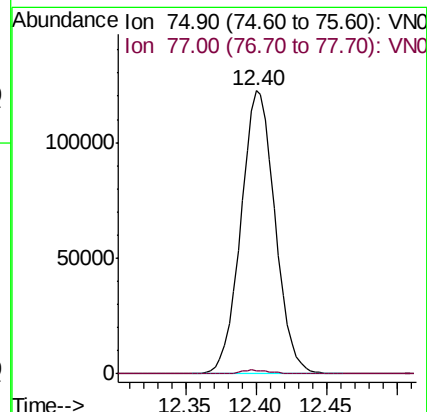
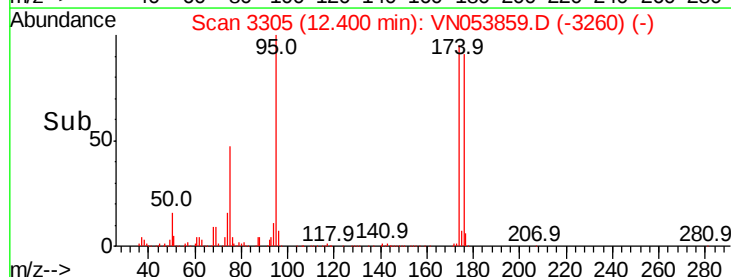
75 100

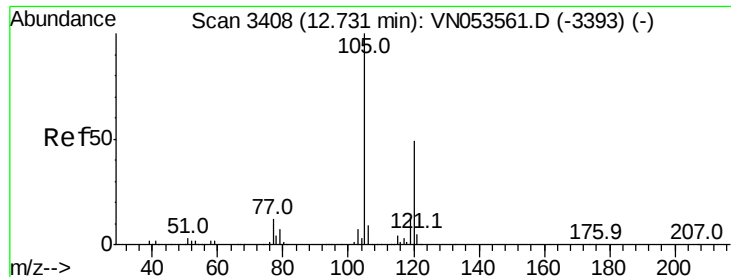
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

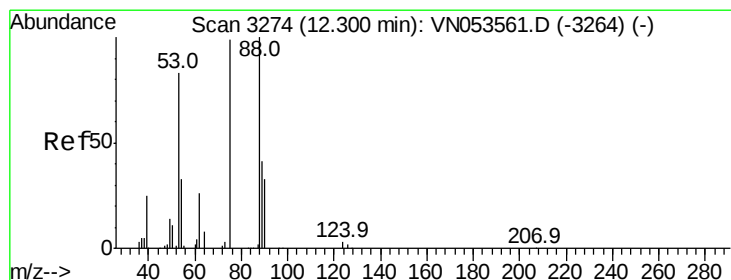
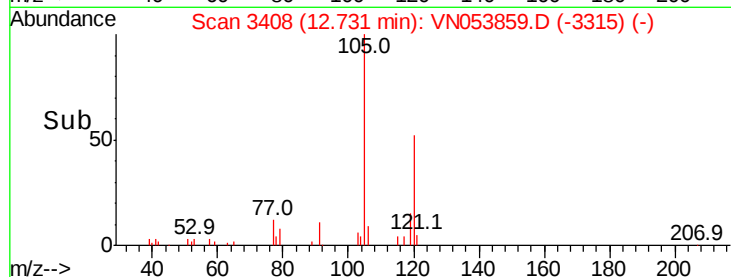
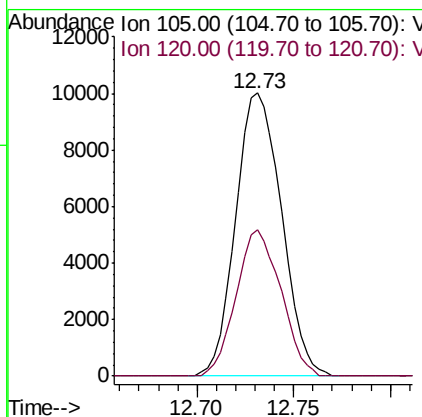
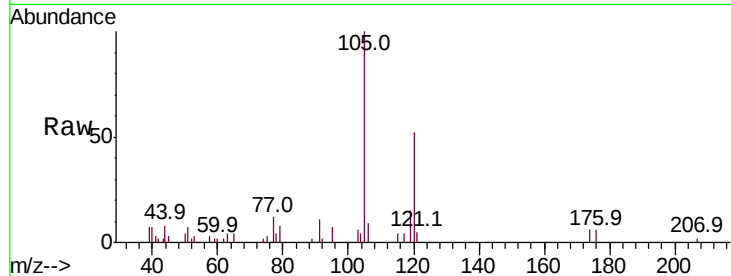




#80
 1,3,5-Trimethylbenzene
 Concen: 0.675 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN053859.D
 Acq: 19 Feb 2019 10:41

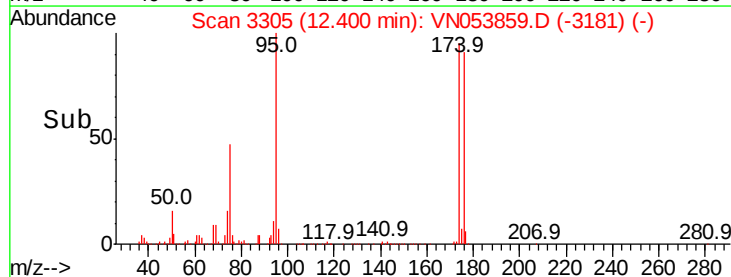
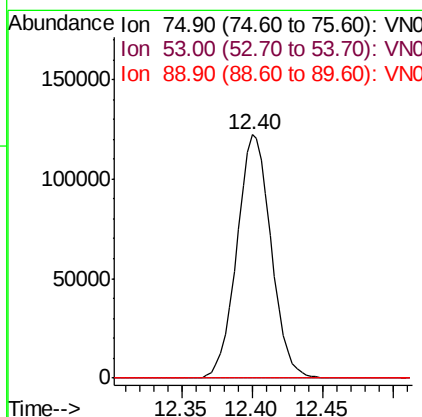
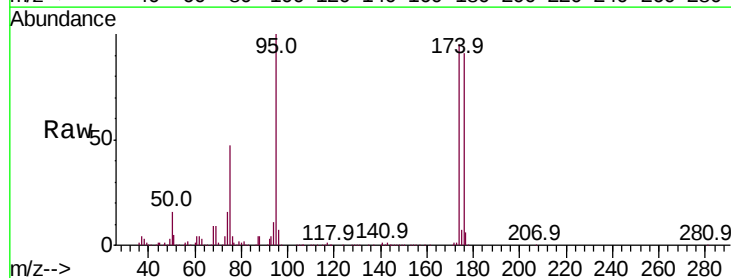
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117196TB

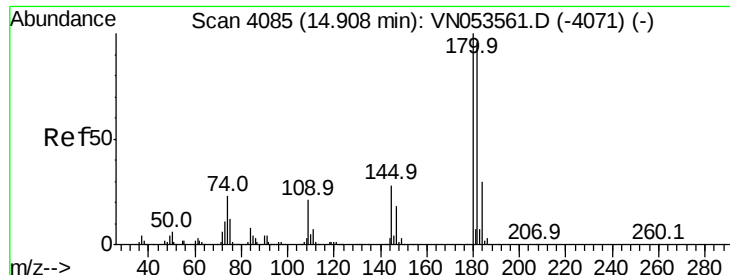
Tot Ion:105 Resp: 16522
 Ion Ratio Lower Upper
 105 100
 120 50.3 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 108.243 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN053859.D
 Acq: 19 Feb 2019 10:41

Tgt Ion: 75 Resp: 207499
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.8 104.6#
 89 0.0 35.6 53.4#

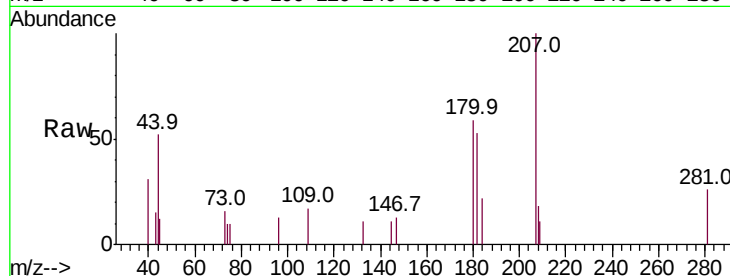




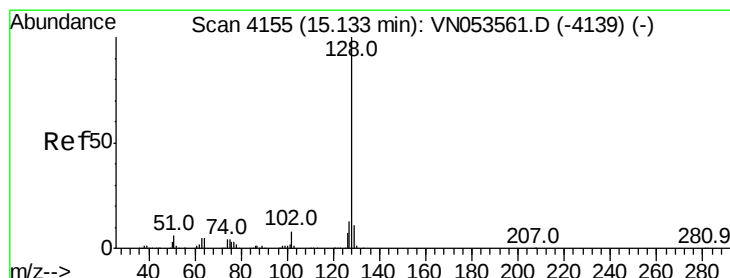
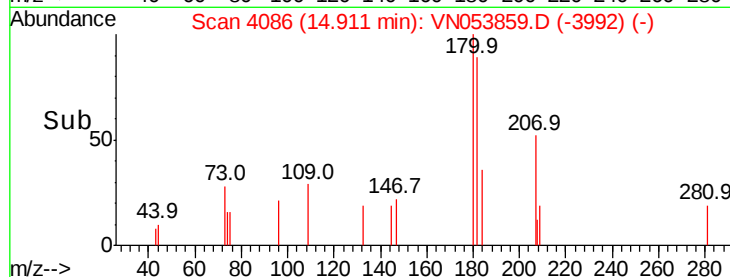
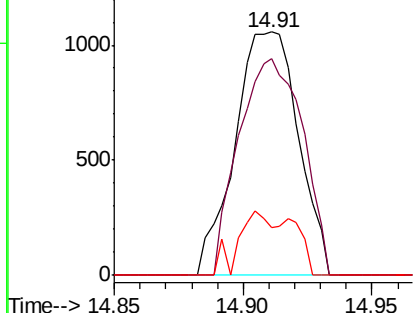
#93
 1,2,4-Trichlorobenzene
 Concen: 0.232 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN053859.D
 Acq: 19 Feb 2019 10:41

Instrument :
 MSVOA_N
 ClientSampled :
 PB117196TB

Tot Ion:180 Resp: 1819
 Ion Ratio Lower Upper
 180 100
 182 89.6 48.1 144.3
 145 13.6 13.9 41.6#

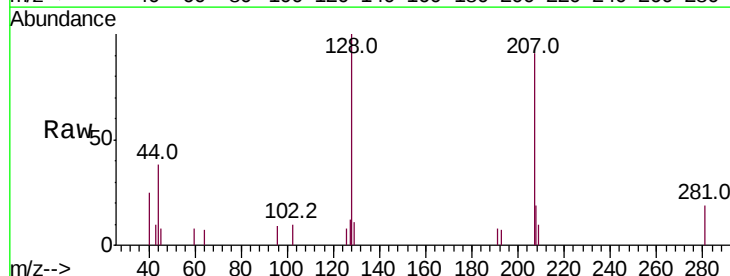


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

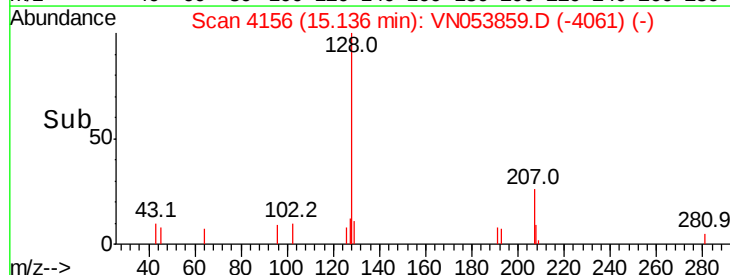
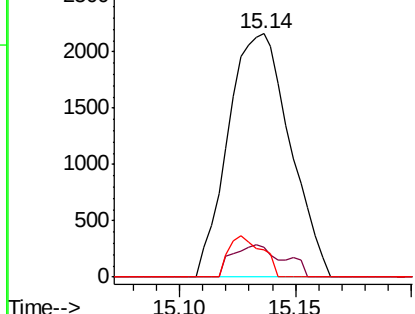


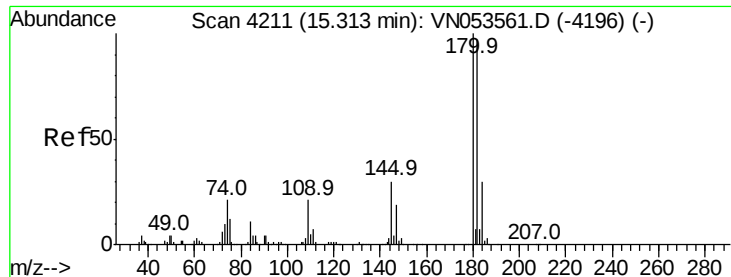
#95
 Naphthalene
 Concen: 1.945 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN053859.D
 Acq: 19 Feb 2019 10:41

Tgt Ion:128 Resp: 3990
 Ion Ratio Lower Upper
 128 100
 127 11.0 10.3 15.5
 129 9.2 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





#96
 1,2,3-Trichlorobenzene
 Concen: 0.255 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN053859.D
 Acq: 19 Feb 2019 10:41

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117196TB

Tot Ion	Ratio	Lower	Upper
180	100		
182	99.2	47.9	143.8
145	35.4	14.7	44.1

