

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092618\
 Data File : VN051489.D
 Acq On : 25 Sep 2018 17:45
 Operator : MD\SY
 Sample : VN0926WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0926WBL01

Quant Time: Sep 26 04:07:45 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	652751	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	980110	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	835851	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	289454	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	444422	54.35	ug/l	0.00
Spiked Amount			Recovery	=	108.70%	
35) Dibromofluoromethane	7.59	113	391675	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
50) Toluene-d8	10.09	98	1413793	47.90	ug/l	0.00
Spiked Amount			Recovery	=	95.80%	
62) 4-Bromofluorobenzene	12.40	95	378584	39.65	ug/l	0.00
Spiked Amount			Recovery	=	79.30%	

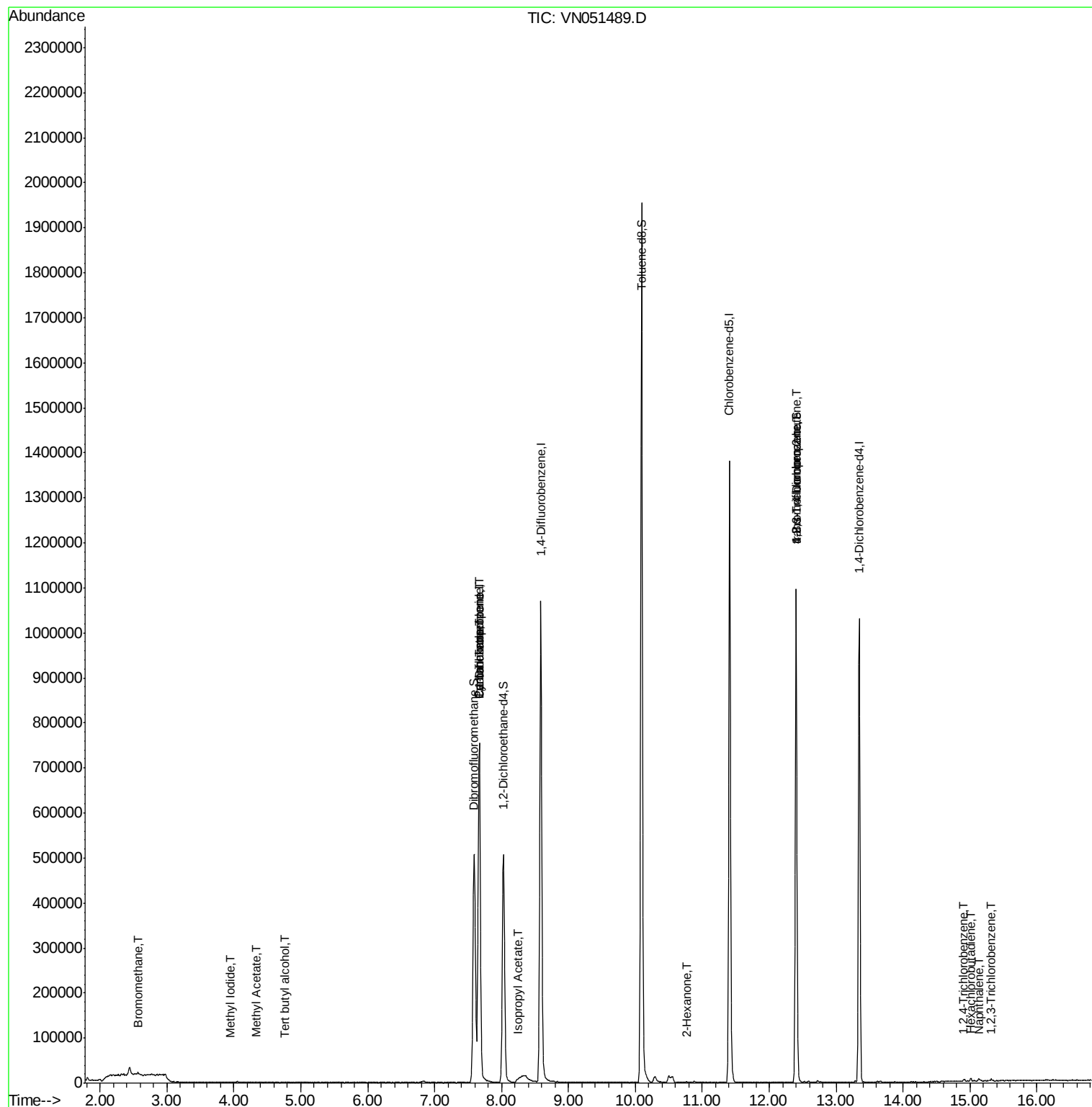
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	2409	0.434	ug/l	84
10) Methyl Iodide	3.95	142	150	0.291	ug/l #	42
11) Tert butyl alcohol	4.76	59	106	0.230	ug/l #	78
16) Acetone	3.82	43	751	Below Cal	#	43
18) Methyl Acetate	4.33	43	1344	0.216	ug/l #	66
31) Cyclohexane	7.66	56	11522	0.895	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	44716	3.940	ug/l #	44
38) Carbon Tetrachloride	7.67	117	57596	4.852	ug/l #	17
43) Isopropyl Acetate	8.24	43	3847	0.326	ug/l #	60
59) 2-Hexanone	10.76	43	1454	0.346	ug/l	82
76) 1,2,3-Trichloropropane	12.40	75	183246	38.135	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	183246	117.264	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	1643	6.240	ug/l #	85
94) Hexachlorobutadiene	15.01	225	1385	0.353	ug/l	94
95) Naphthalene	15.13	128	4123	8.366	ug/l	96
96) 1,2,3-Trichlorobenzene	15.32	180	1864	0.374	ug/l	87

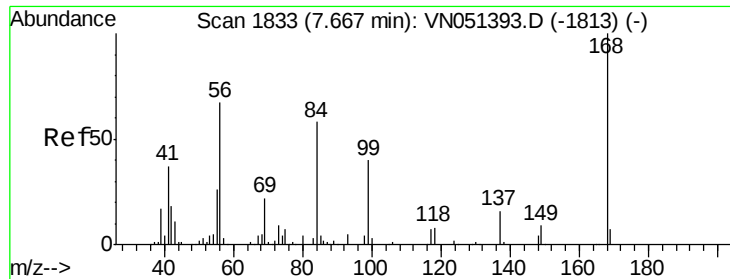
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051489.D

Acq: 25 Sep 2018 17:45

Instrument :

MSVOA_N

ClientSampleId :

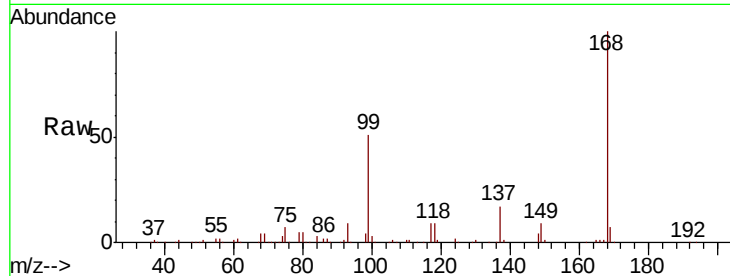
VN0926WBL01

Tot Ion:168 Resp: 652751

Ion Ratio Lower Upper

168 100

99 51.0 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

150000

100000

50000

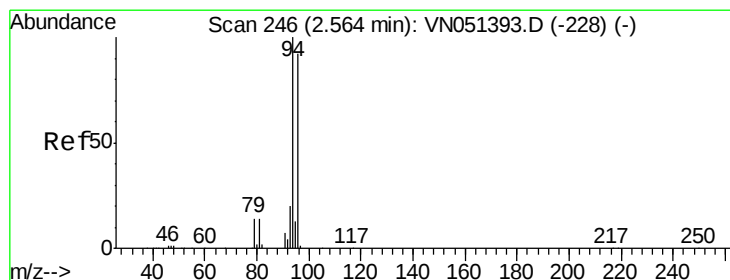
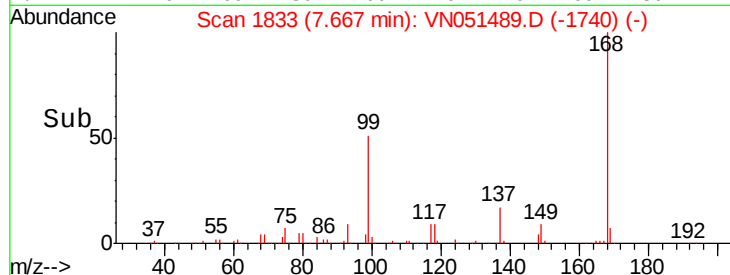
0

Time-->

7.60

7.70

7.80



#5

Bromomethane

Concen: 0.434 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051489.D

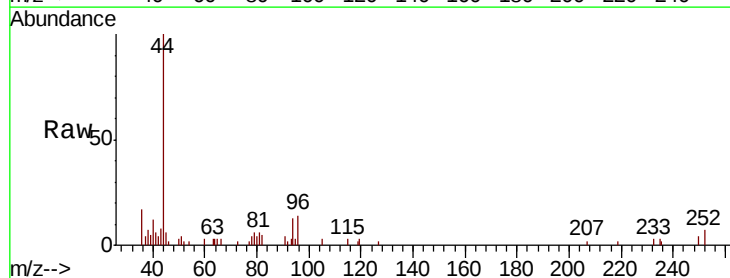
Acq: 25 Sep 2018 17:45

Tgt Ion: 94 Resp: 2409

Ion Ratio Lower Upper

94 100

96 107.4 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.57

1200

1000

800

600

400

200

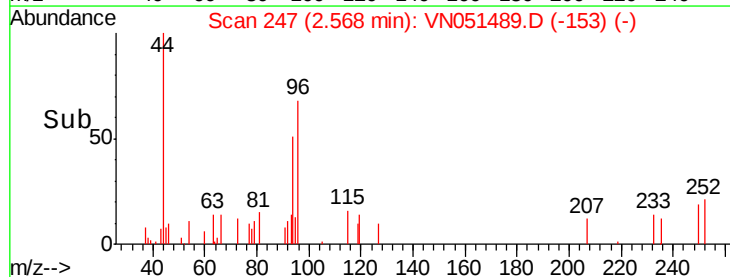
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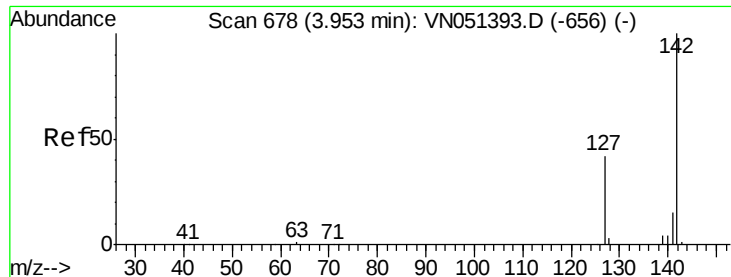
Time-->

2.50

2.55

2.60

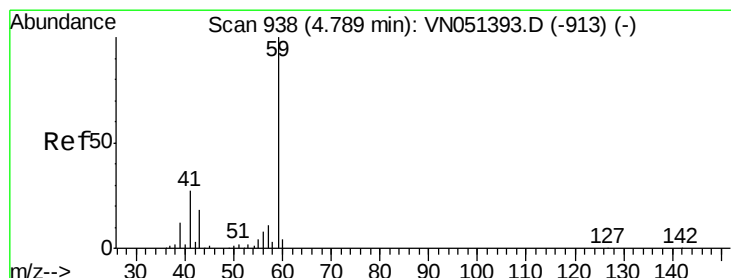
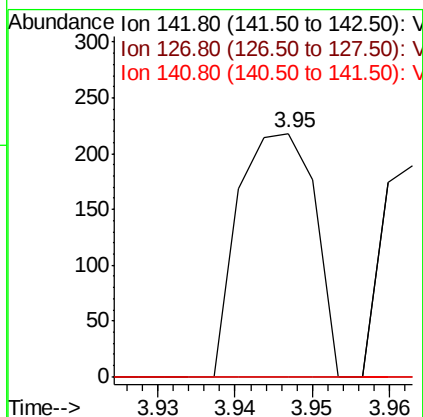
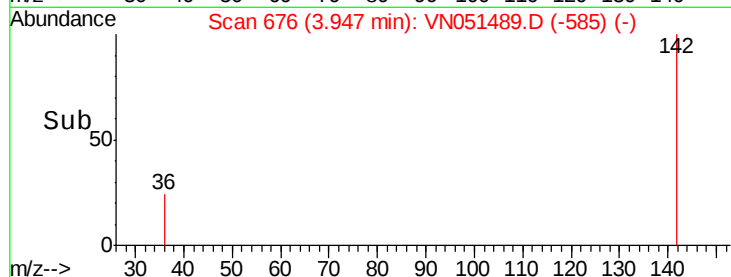
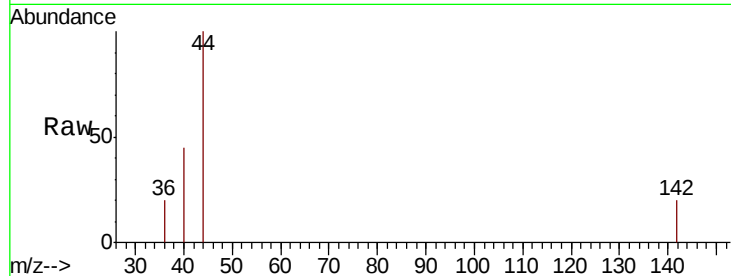




#10
Methvl Iodide
Concen: 0.291 ug/l
RT: 3.95 min Scan# 676
Delta R.T. -0.01 min
Lab File: VN051489.D
Acq: 25 Sep 2018 17:45

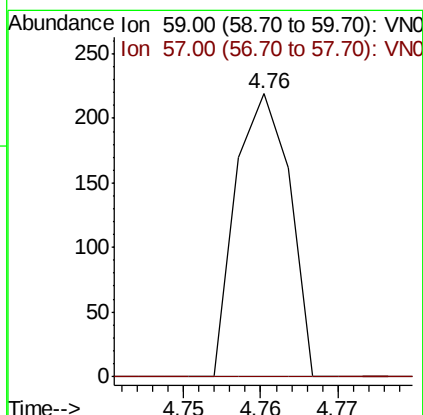
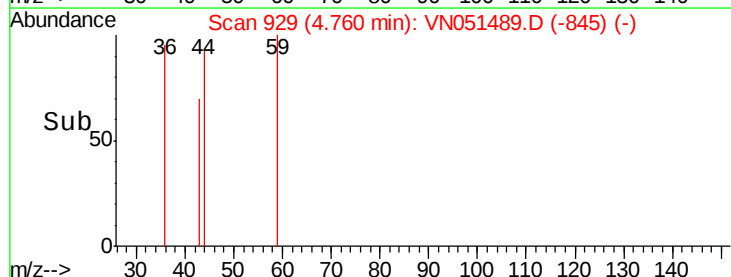
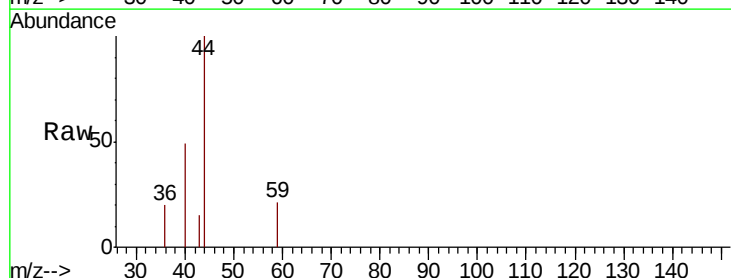
Instrument :
MSVOA_N
ClientSampleId :
VN0926WBL01

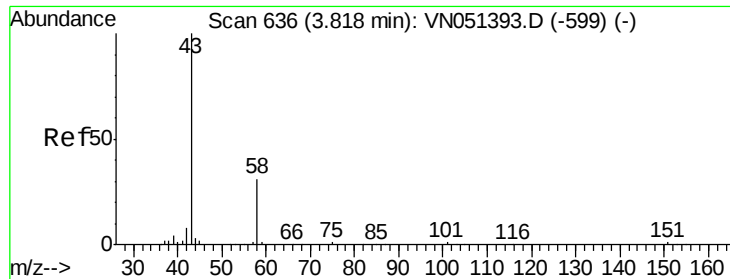
Tot Ion:142 Resp: 150
Ion Ratio Lower Upper
142 100
127 0.0 33.2 49.8#
141 0.0 11.5 17.3#



#11
Tert butyl alcohol
Concen: 0.230 ug/l
RT: 4.76 min Scan# 929
Delta R.T. -0.03 min
Lab File: VN051489.D
Acq: 25 Sep 2018 17:45

Tgt Ion: 59 Resp: 106
Ion Ratio Lower Upper
59 100
57 0.0 6.2 9.2#





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051489.D

Acq: 25 Sep 2018 17:45

Instrument :

MSVOA_N

ClientSampled :

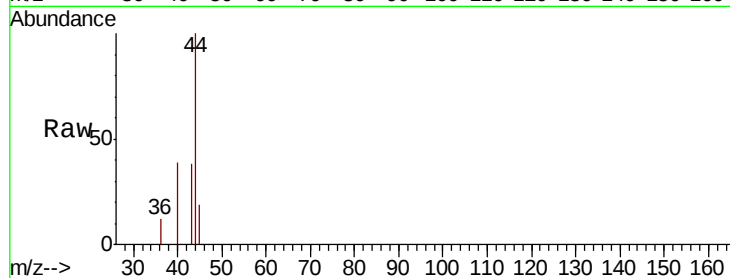
VN0926WBL01

Tot Ion: 43 Resp: 751

Ion Ratio Lower Upper

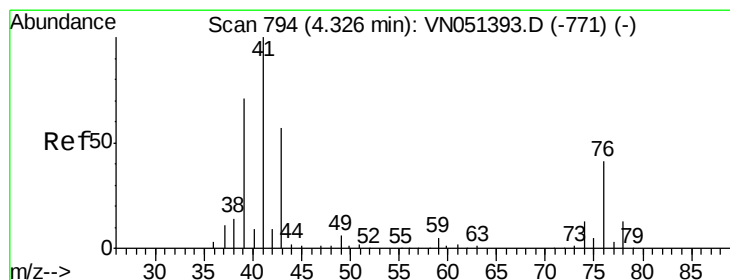
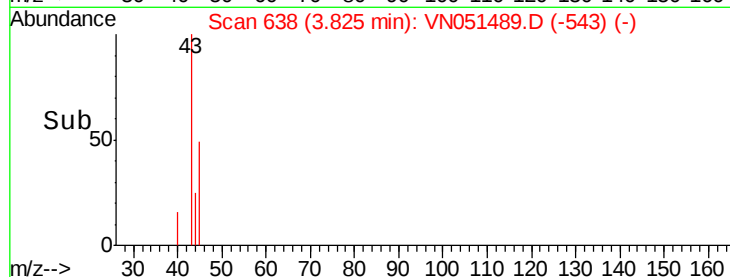
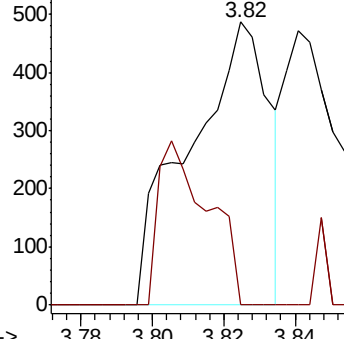
43 100

58 0.0 25.0 37.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.216 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051489.D

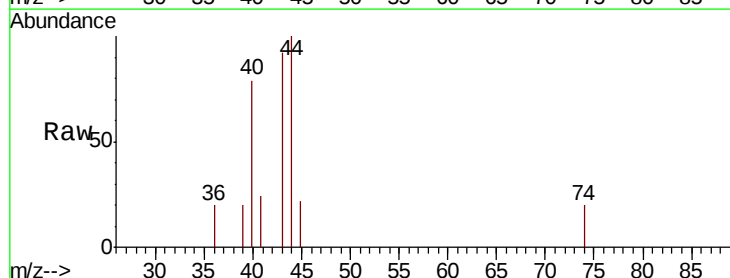
Acq: 25 Sep 2018 17:45

Tgt Ion: 43 Resp: 1344

Ion Ratio Lower Upper

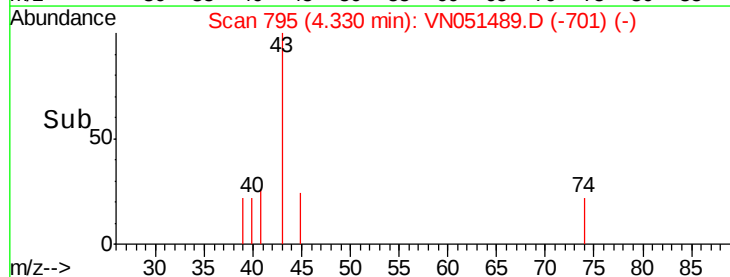
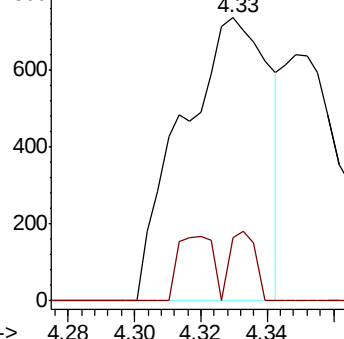
43 100

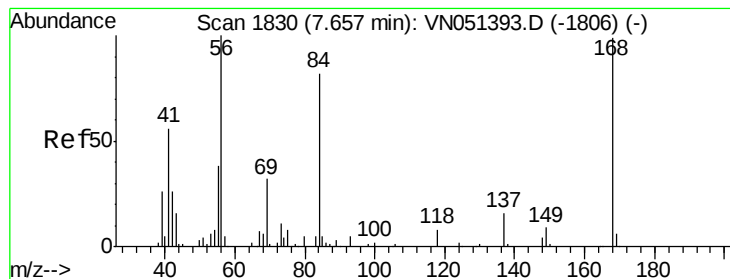
74 7.1 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#31

Cyclohexane

Concen: 0.895 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051489.D

Acq: 25 Sep 2018 17:45

Instrument :

MSVOA_N

ClientSampled :

VN0926WBL01

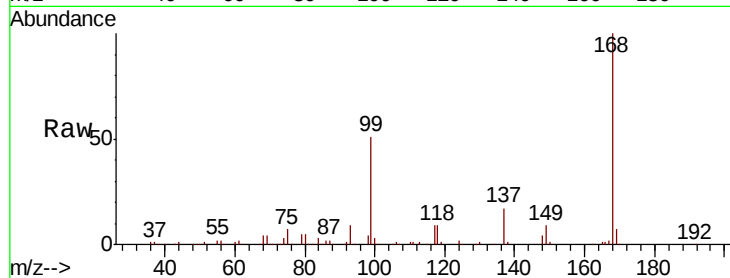
Tot Ion: 56 Resp: 11522

Ion Ratio Lower Upper

56 100

69 200.0 25.8 38.6#

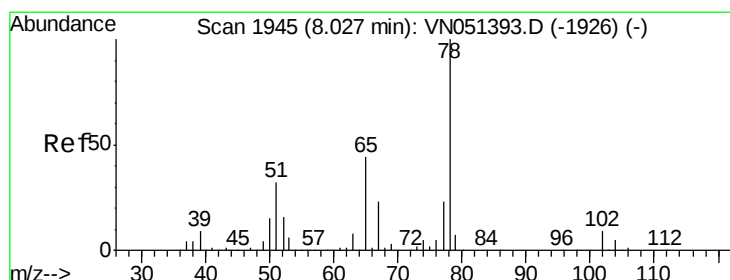
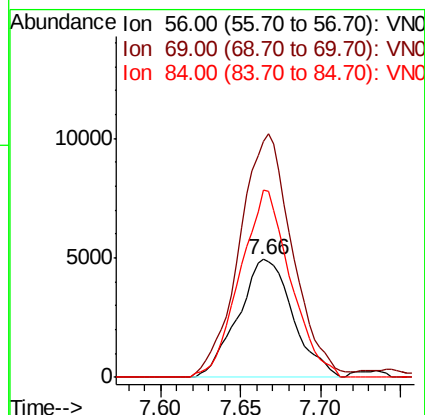
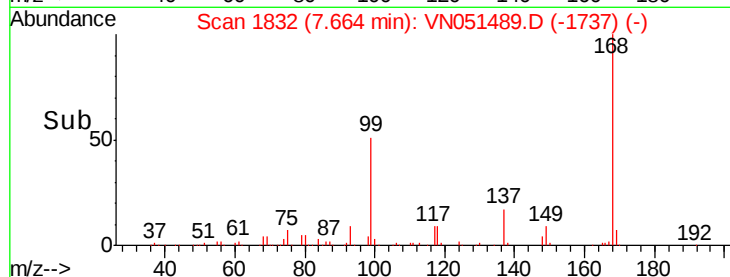
84 158.7 66.0 99.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 54.351 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN051489.D

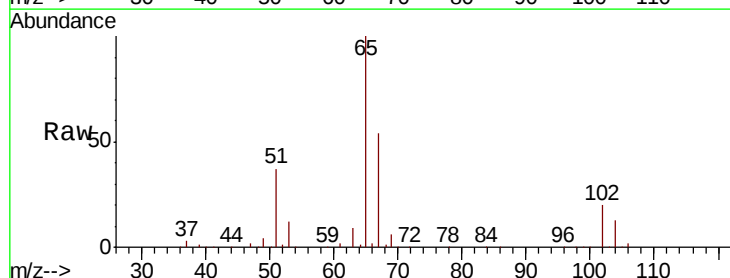
Acq: 25 Sep 2018 17:45

Tgt Ion: 65 Resp: 444422

Ion Ratio Lower Upper

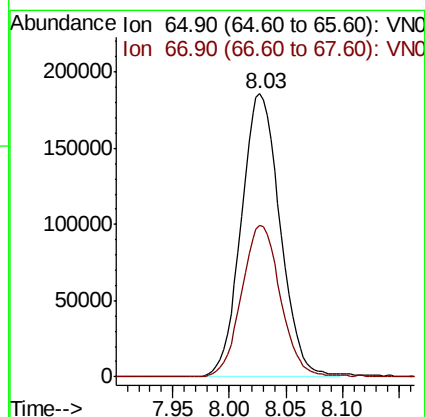
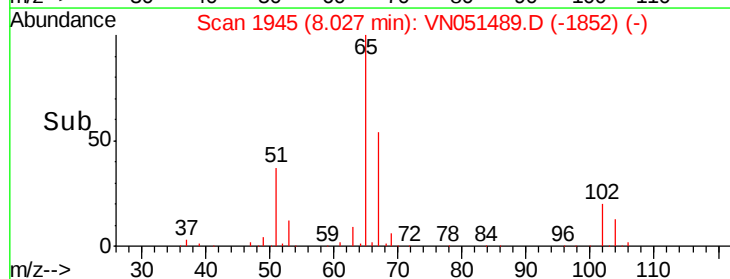
65 100

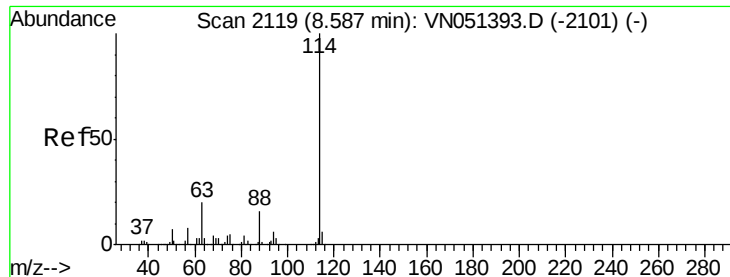
67 53.5 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

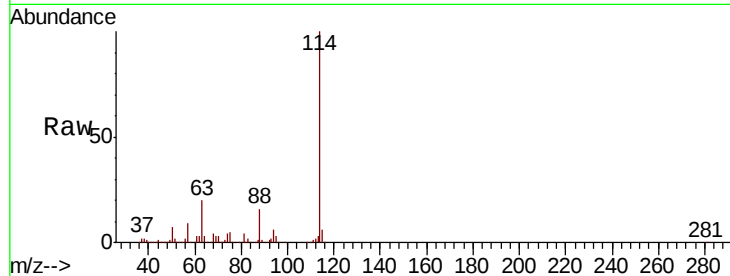




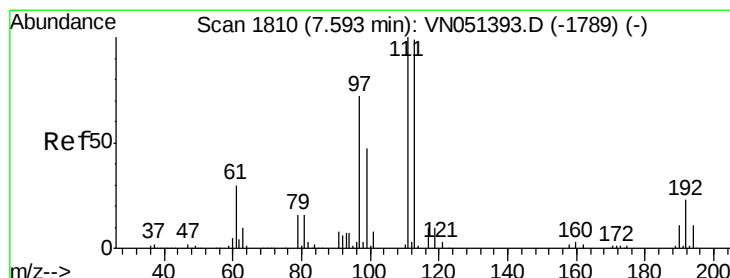
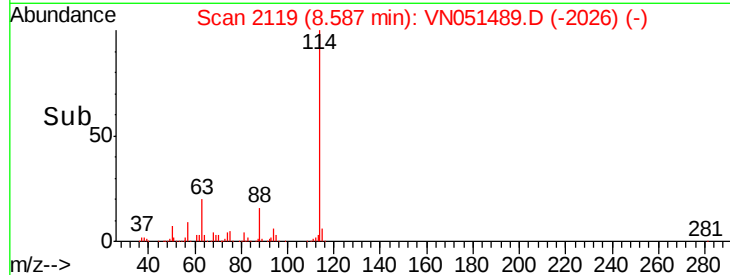
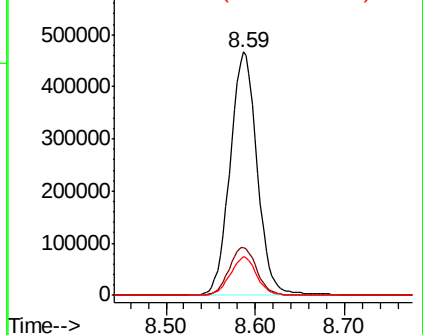
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051489.D
 Acq: 25 Sep 2018 17:45

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0926WBL01

Tot Ion:114	Resp:	980110
Ion	Ratio	Lower Upper
114	100	
63	19.9	0.0 40.2
88	15.7	0.0 31.4

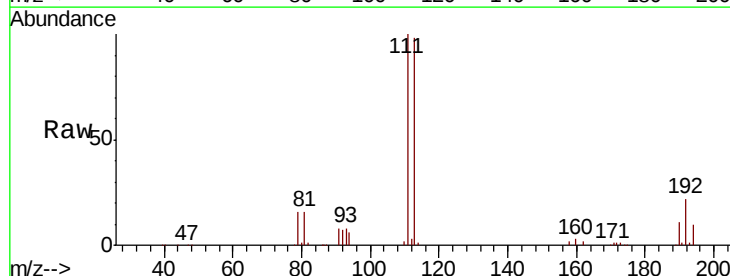


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

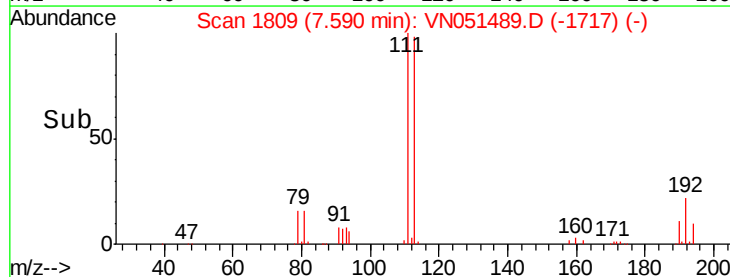
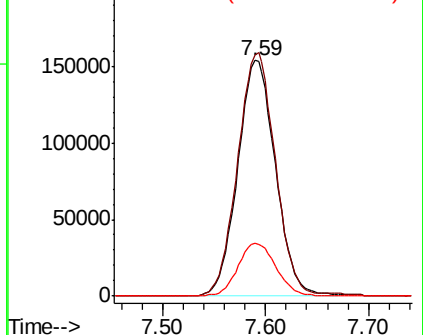


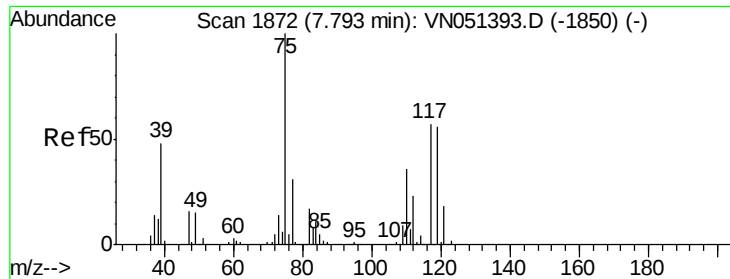
#35
 Dibromofluoromethane
 Concen: 49.975 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN051489.D
 Acq: 25 Sep 2018 17:45

Tgt Ion:113	Resp:	391675
Ion	Ratio	Lower Upper
113	100	
111	103.8	82.6 123.8
192	22.7	18.0 27.0



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

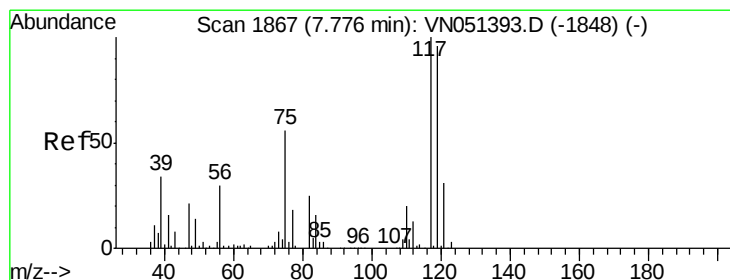
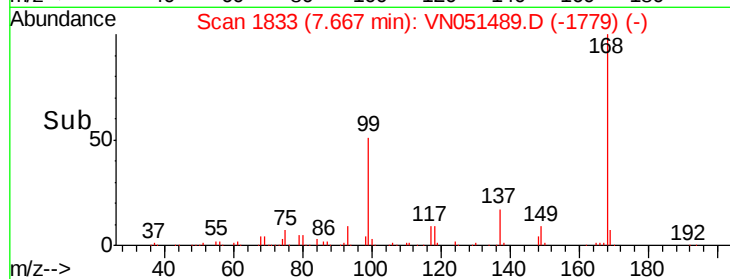
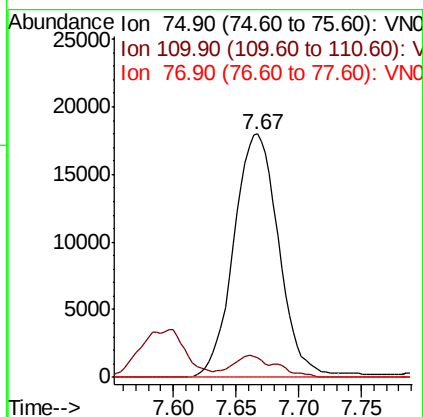
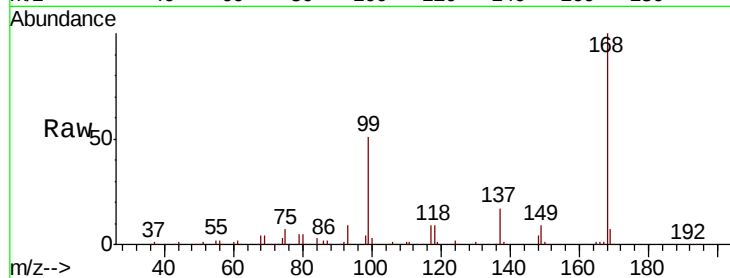




#36
 1,1-Dichloropropene
 Concen: 3.940 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051489.D
 Acq: 25 Sep 2018 17:45

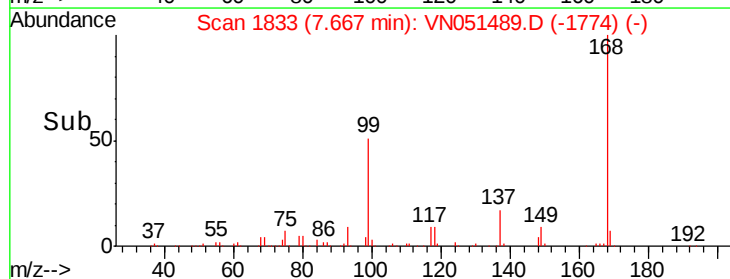
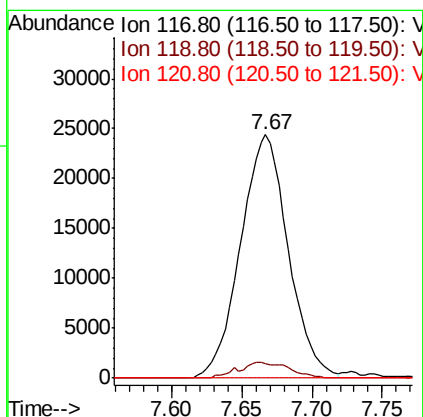
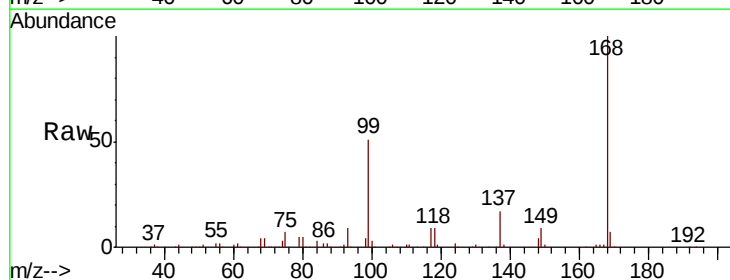
Instrument :
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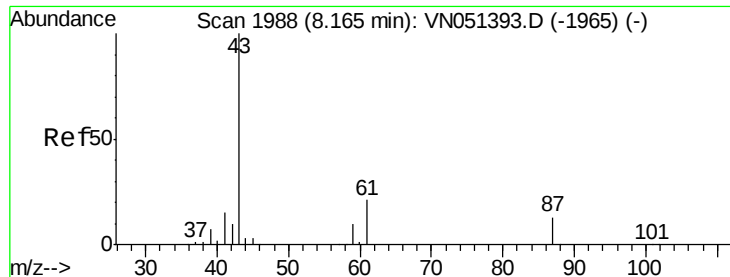
Tot Ion	75	Resp	44716
Ion Ratio	Lower	Upper	
75	100		
110	3.6	18.1	54.3#
77	0.0	25.6	38.4#



#38
 Carbon Tetrachloride
 Concen: 4.852 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051489.D
 Acq: 25 Sep 2018 17:45

Tgt Ion	117	Resp	57596
Ion Ratio	Lower	Upper	
117	100		
119	6.0	76.9	115.3#
121	0.0	24.6	37.0#





#43

Isopropyl Acetate

Concen: 0.326 ug/l

RT: 8.24 min Scan# 2011

Delta R.T. 0.07 min

Lab File: VN051489.D

Acq: 25 Sep 2018 17:45

Instrument :

MSVOA_N

ClientSampleID :

VN0926WBL01

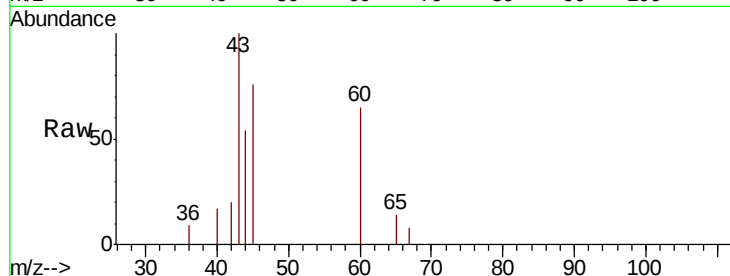
Tot Ion: 43 Resp: 3847

Ion Ratio Lower Upper

43 100

61 0.0 16.8 25.2#

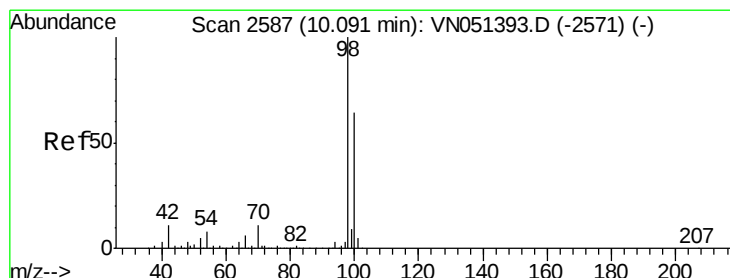
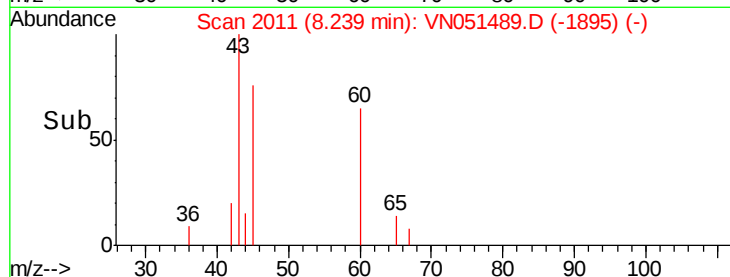
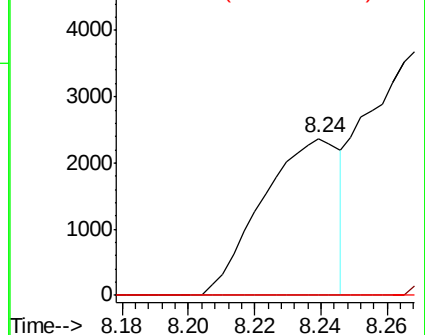
87 0.0 10.7 16.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 47.904 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051489.D

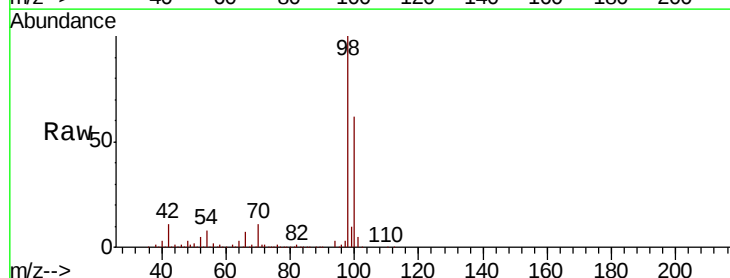
Acq: 25 Sep 2018 17:45

Tgt Ion: 98 Resp: 1413793

Ion Ratio Lower Upper

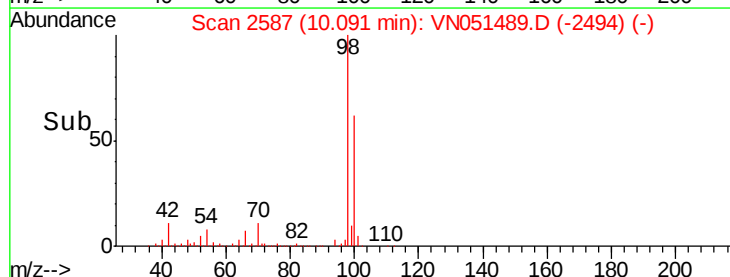
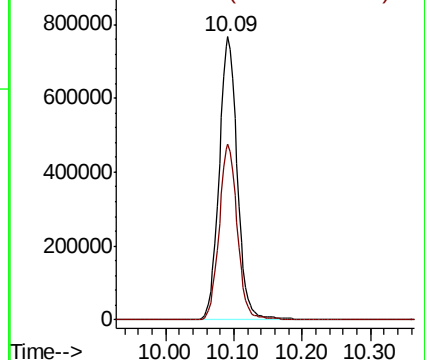
98 100

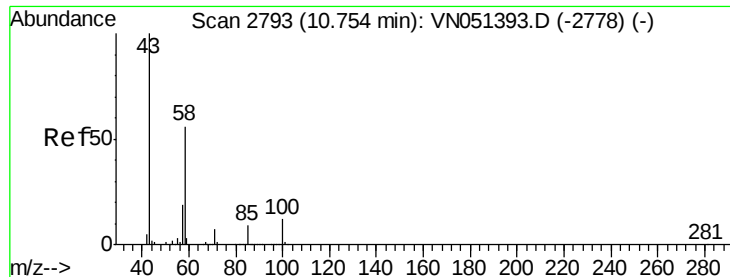
100 62.3 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

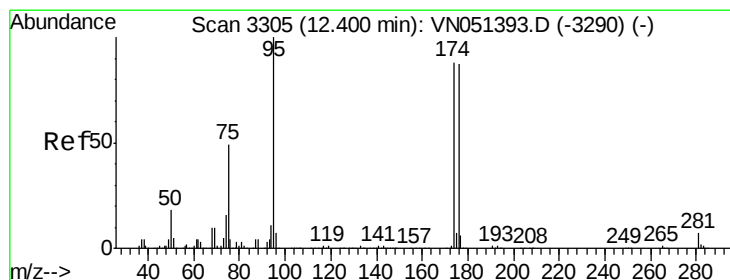
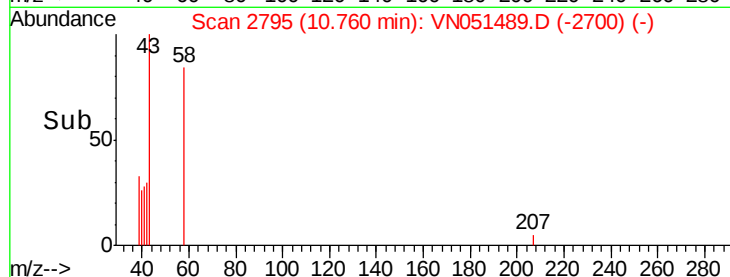
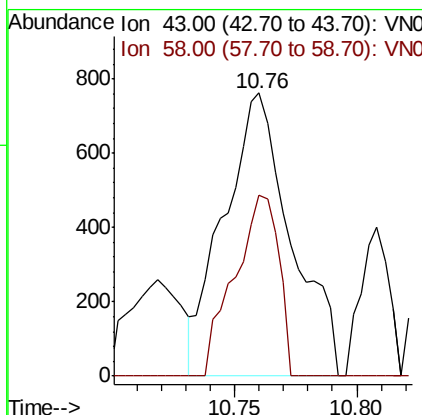
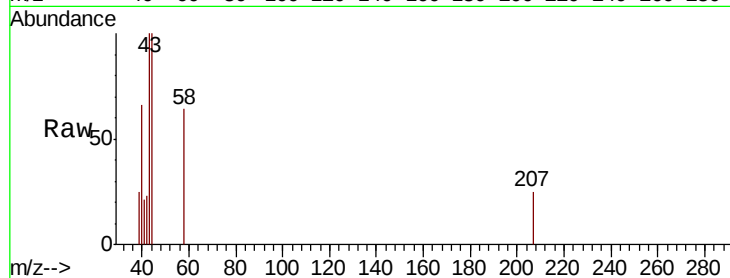




#59
2-Hexanone
Concen: 0.346 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN051489.D
Acq: 25 Sep 2018 17:45

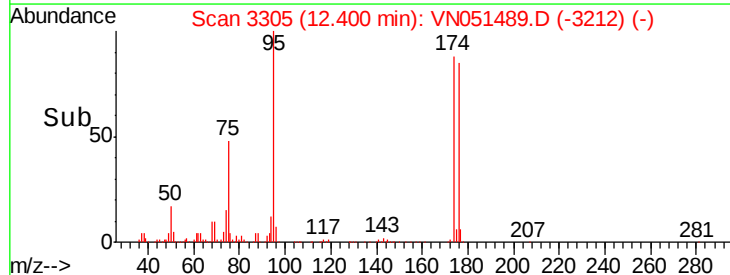
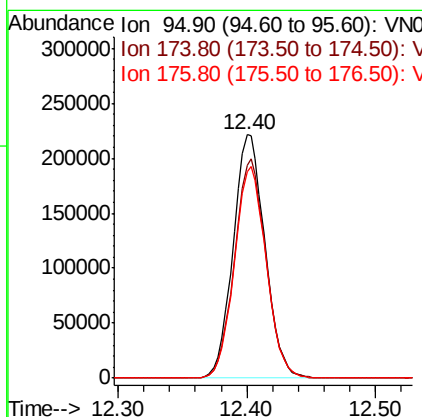
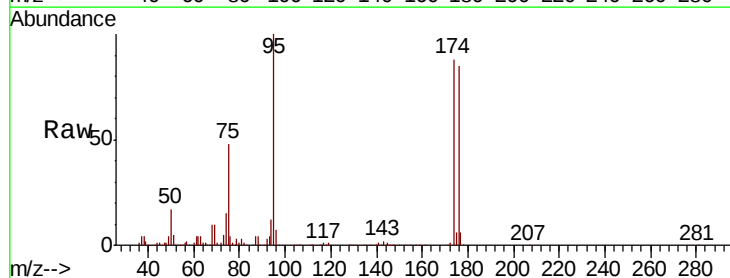
Instrument :
MSVOA_N
ClientSampleId :
VN0926WBL01

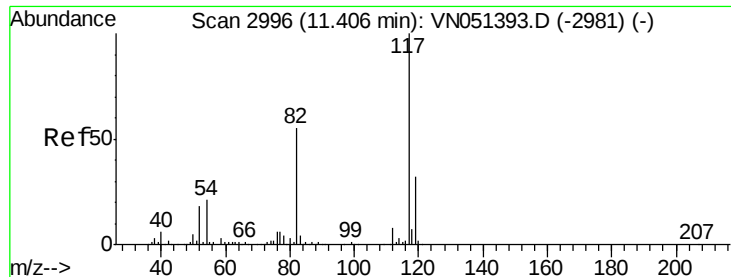
Tot Ion: 43 Resp: 1454
Ion Ratio Lower Upper
43 100
58 42.1 27.7 83.0



#62
4-Bromofluorobenzene
Concen: 39.653 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN051489.D
Acq: 25 Sep 2018 17:45

Tgt Ion: 95 Resp: 378584
Ion Ratio Lower Upper
95 100
174 89.8 0.0 181.6
176 87.0 0.0 176.4

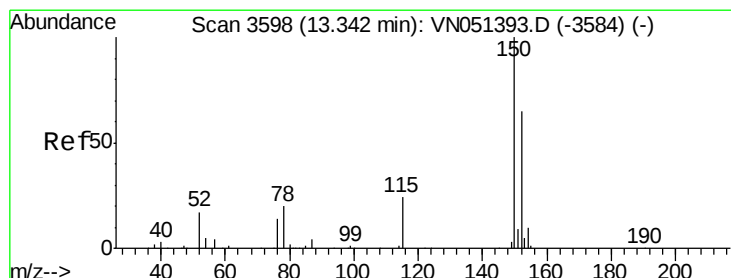
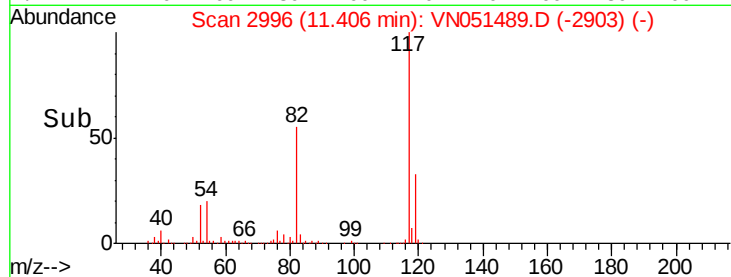
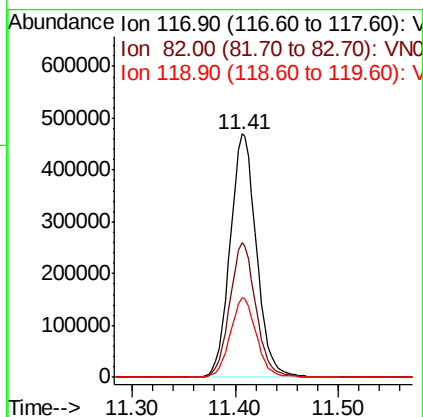
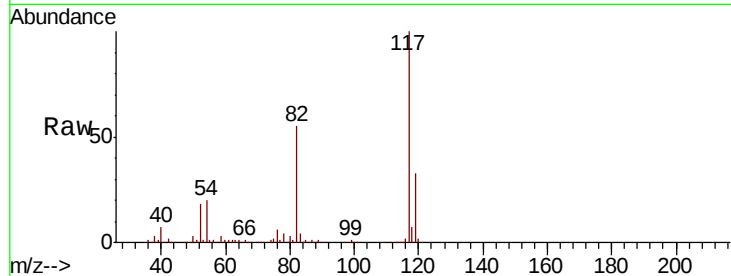




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051489.D
Acq: 25 Sep 2018 17:45

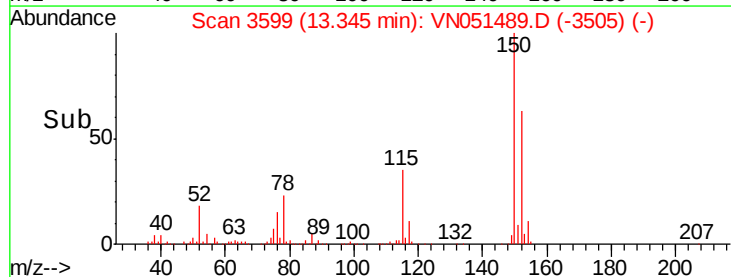
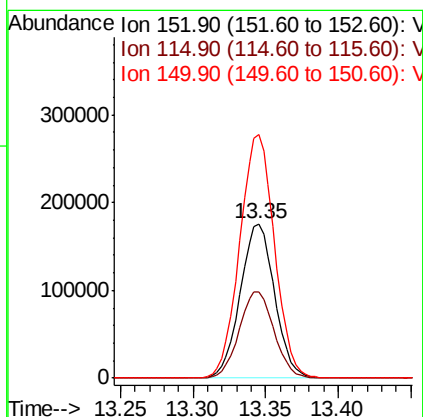
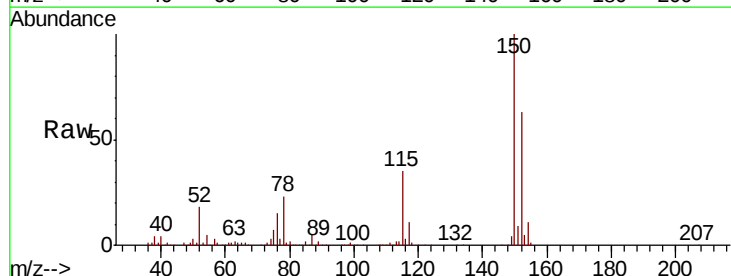
Instrument :
MSVOA_N
ClientSampleId :
VN0926WBL01

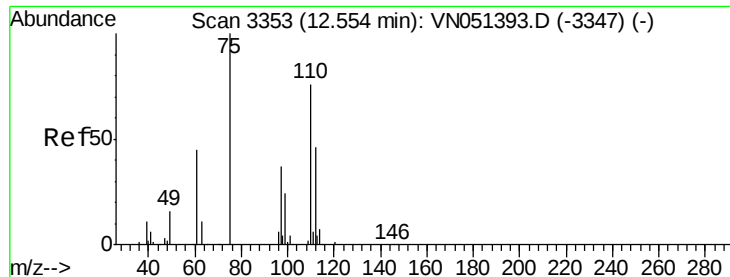
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.4	44.2	66.2
119	32.6	25.9	38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051489.D
Acq: 25 Sep 2018 17:45

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.8	28.3	84.9
150	159.9	0.0	353.6





#76

1,2,3-Trichloropropane

Concen: 38.135 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051489.D

Acq: 25 Sep 2018 17:45

Instrument :

MSVOA_N

ClientSampleId :

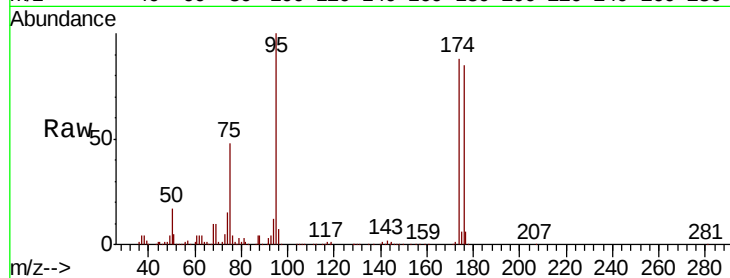
VN0926WBL01

Tot Ion: 75 Resp: 183246

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

120000

100000

80000

60000

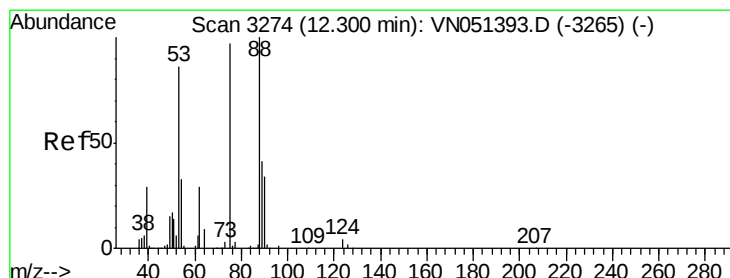
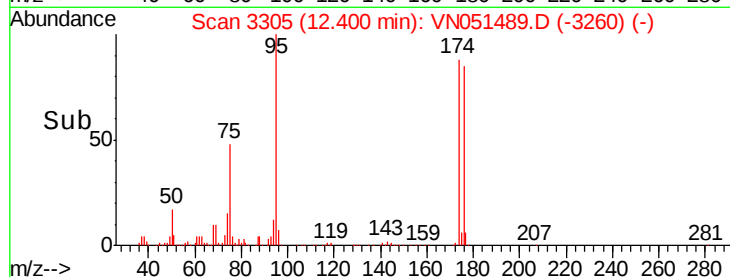
40000

20000

0

12.35 12.40 12.45

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 117.264 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051489.D

Acq: 25 Sep 2018 17:45

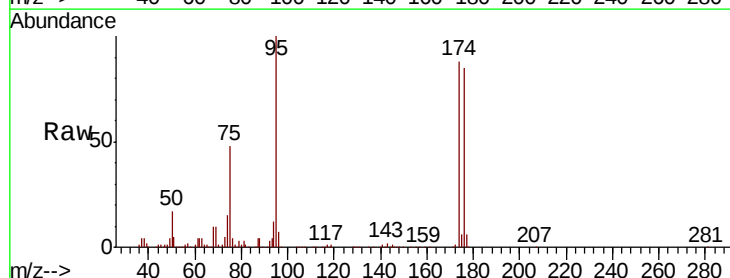
Tgt Ion: 75 Resp: 183246

Ion Ratio Lower Upper

75 100

53 0.1 73.9 110.9#

89 0.0 36.7 55.1#



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

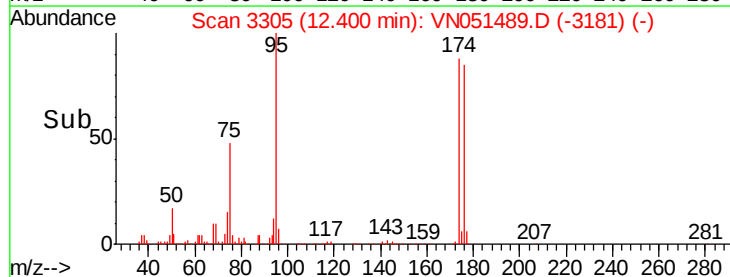
100000

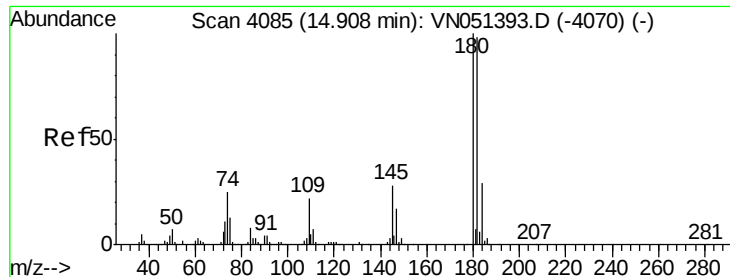
50000

0

12.35 12.40 12.45

Time-->

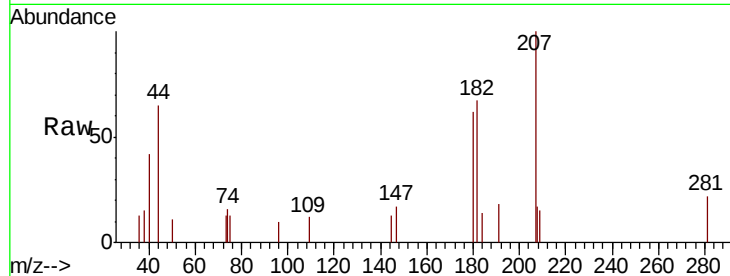




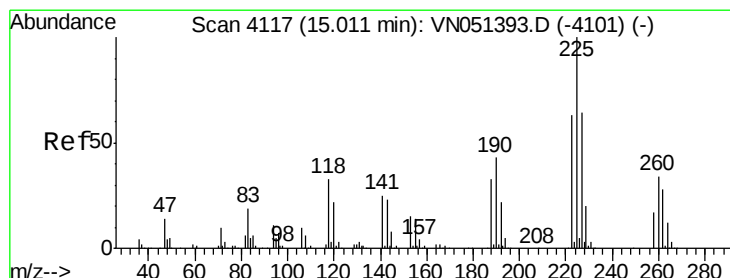
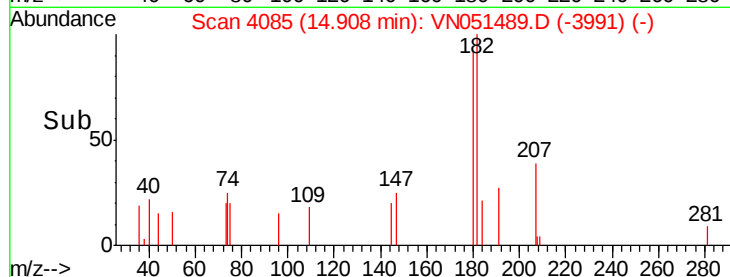
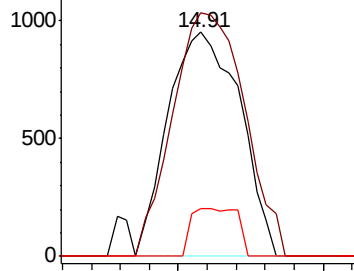
#93
 1,2,4-Trichlorobenzene
 Concen: 6.240 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN051489.D
 Acq: 25 Sep 2018 17:45

Instrument :
 MSVOA_N
 ClientSampled :
 VN0926WBL01

Tot Ion:180 Resp: 1643
 Ion Ratio Lower Upper
 180 100
 182 108.6 48.5 145.6
 145 13.8 14.1 42.4#

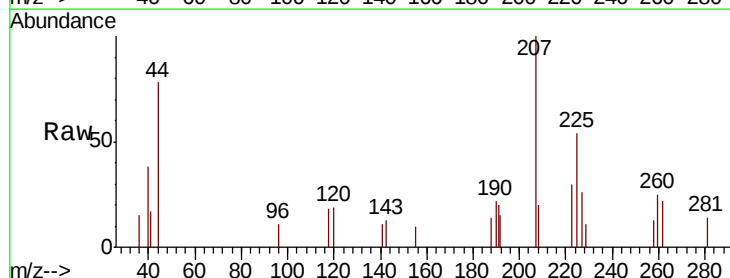


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

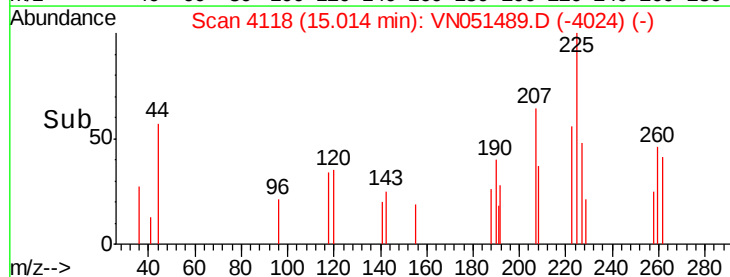
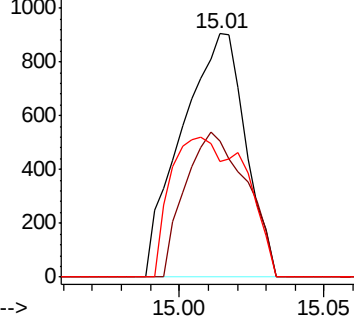


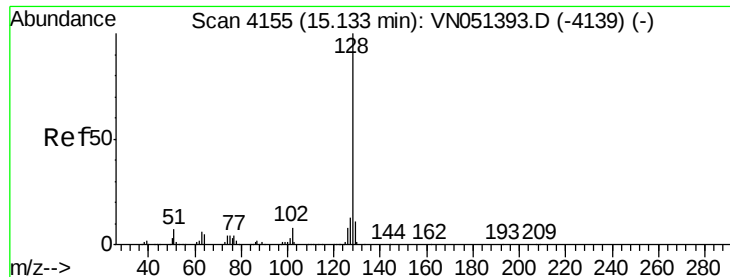
#94
 Hexachlorobutadiene
 Concen: 0.353 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN051489.D
 Acq: 25 Sep 2018 17:45

Tgt Ion:225 Resp: 1385
 Ion Ratio Lower Upper
 225 100
 223 57.0 31.9 95.9
 227 67.1 32.5 97.5



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





#95

Naphthalene

Concen: 8.366 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051489.D

Acq: 25 Sep 2018 17:45

Instrument :

MSVOA_N

ClientSampleId :

VN0926WBL01

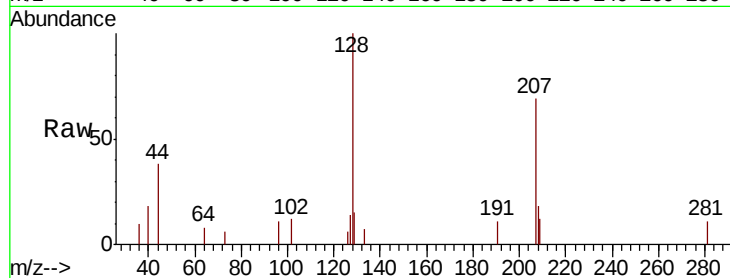
Tot Ion:128 Resp: 4123

Ion Ratio Lower Upper

128 100

127 11.7 10.5 15.7

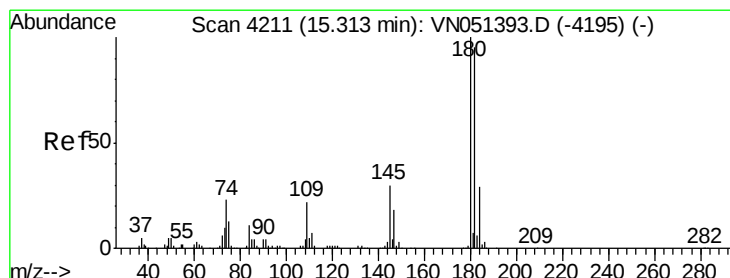
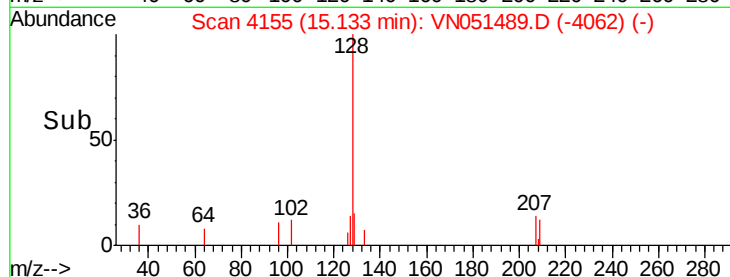
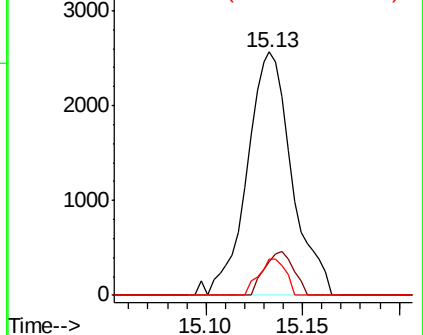
129 9.0 8.6 12.8



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: 0.374 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN051489.D

Acq: 25 Sep 2018 17:45

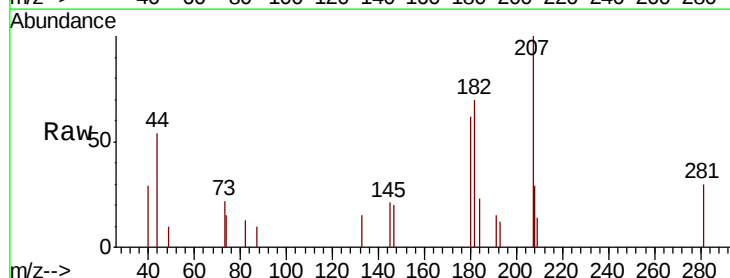
Tgt Ion:180 Resp: 1864

Ion Ratio Lower Upper

180 100

182 107.9 47.2 141.6

145 23.0 14.6 43.8



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

