

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091518\
 Data File : VN051261.D
 Acq On : 16 Sep 2018 7:51
 Operator : MD\SY
 Sample : J4936-34
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 17 04:29:34 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	408956	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	630800	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	509311	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	137307	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	226503	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	
35) Dibromofluoromethane	7.59	113	239873	50.61	ug/l	0.00
Spiked Amount			Recovery	=	101.22%	
50) Toluene-d8	10.09	98	822147	45.71	ug/l	0.00
Spiked Amount			Recovery	=	91.42%	
62) 4-Bromofluorobenzene	12.40	95	196320	33.00	ug/l	0.00
Spiked Amount			Recovery	=	66.00%	

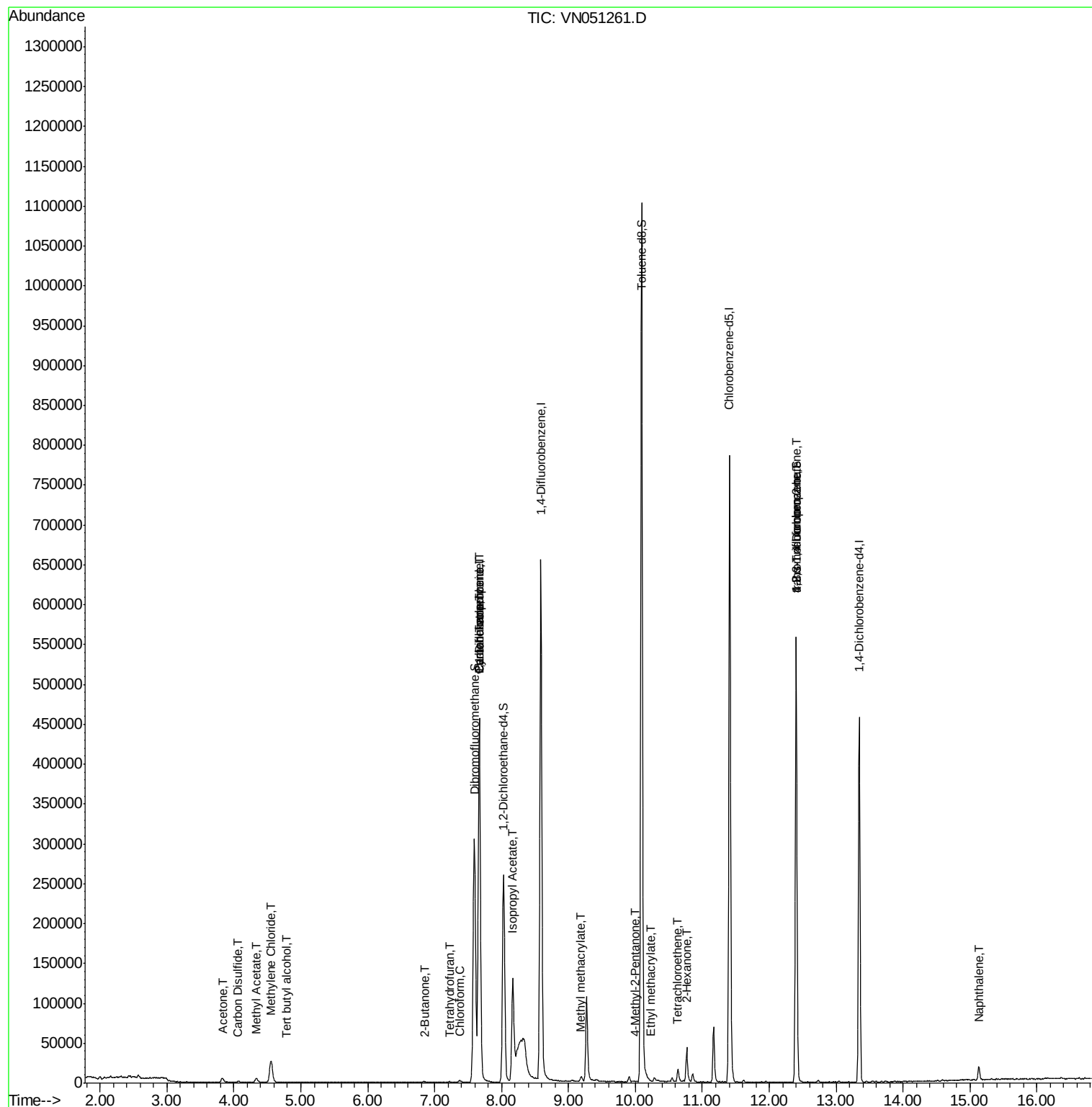
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1490	Below Cal		89
5) Bromomethane	2.57	94	1434	Below Cal		84
11) Tert butyl alcohol	4.79	59	357	1.03	ug/l #	73
16) Acetone	3.82	43	9498	2.66	ug/l	99
17) Carbon Disulfide	4.06	76	1231	0.21	ug/l #	76
18) Methyl Acetate	4.34	43	9727	2.67	ug/l	91
20) Methylene Chloride	4.56	84	22769	4.53	ug/l	96
25) 2-Butanone	6.85	43	2023	1.13	ug/l #	46
29) Tetrahydrofuran	7.22	42	756	0.68	ug/l #	68
30) Chloroform	7.38	83	3284	0.39	ug/l	89
31) Cyclohexane	7.67	56	6655	0.67	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	25661	3.71	ug/l #	49
38) Carbon Tetrachloride	7.67	117	34026	4.99	ug/l #	16
43) Isopropyl Acetate	8.17	43	161690	22.85	ug/l #	85
48) Methyl methacrylate	9.18	41	3856	1.12	ug/l #	17
51) 4-Methyl-2-Pentanone	9.98	43	1056	0.27	ug/l #	58
56) Ethyl methacrylate	10.23	69	264	2.49	ug/l #	72
59) 2-Hexanone	10.77	43	6143	2.31	ug/l #	53
64) Tetrachloroethene	10.63	164	1505	0.32	ug/l #	78
76) 1,2,3-Trichloropropane	12.40	75	93830	43.90	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	93830	129.78	ug/l #	15
90) Hexachloroethane	14.00	117	220	Below Cal	#	2
95) Naphthalene	15.13	128	15914	8.09	ug/l #	94

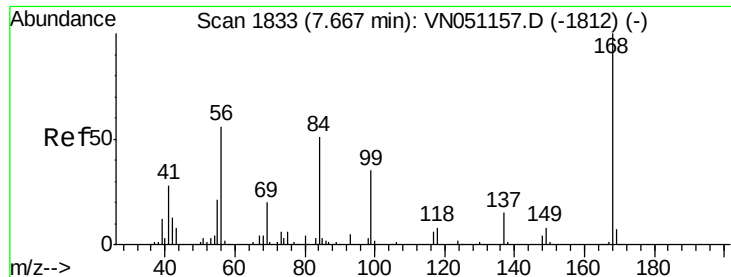
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 17 04:29:34 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 11 02:27:09 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051261.D

Acq: 16 Sep 2018 7:51

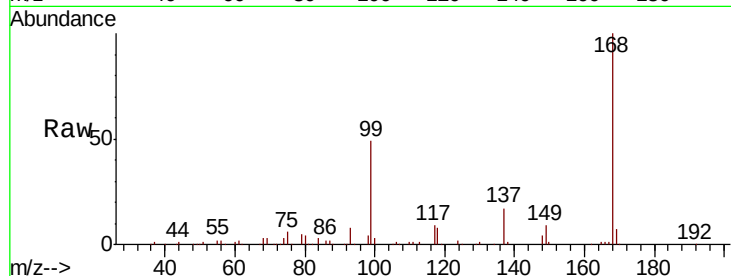
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 408956

Ion Ratio Lower Upper

168 100

99 48.8 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.67

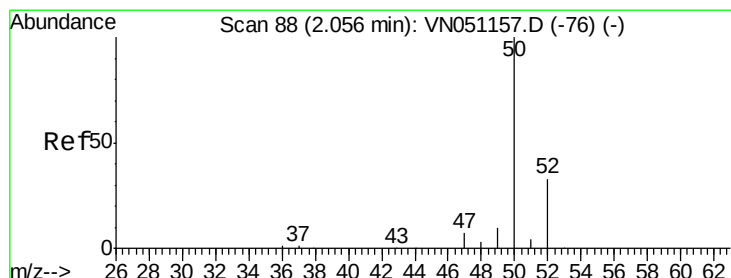
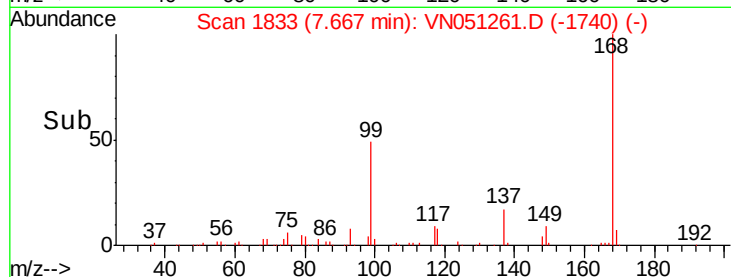
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051261.D

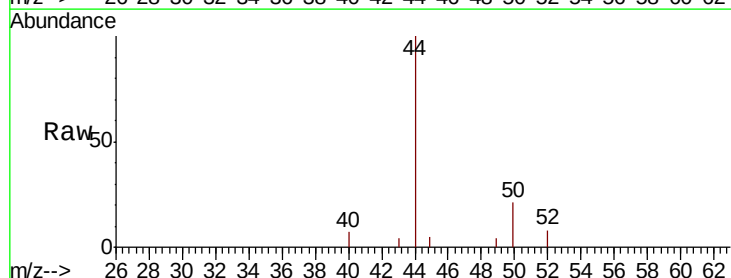
Acq: 16 Sep 2018 7:51

Tgt Ion: 50 Resp: 1490

Ion Ratio Lower Upper

50 100

52 38.8 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): V

Ion 51.90 (51.60 to 52.60): V

2.06

1000

800

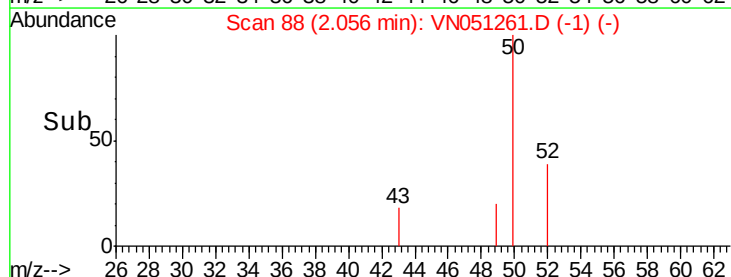
600

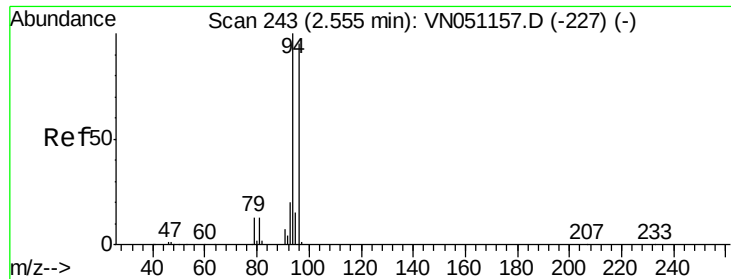
400

200

0

Time--> 2.02 2.04 2.06 2.08 2.10

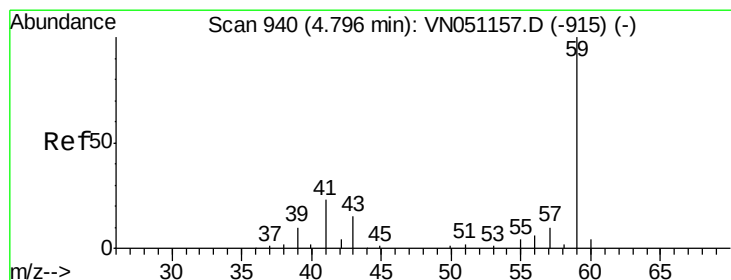
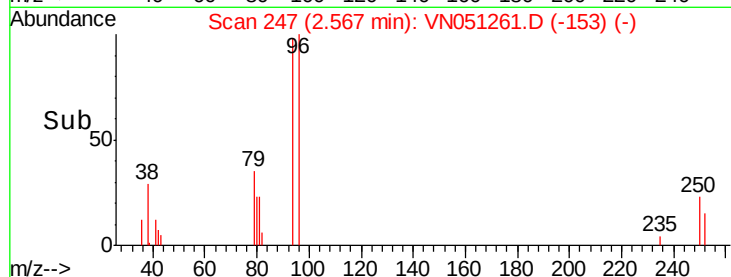
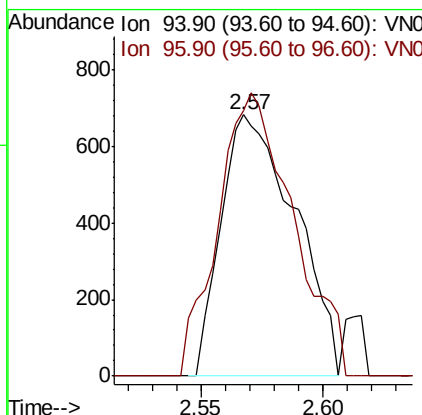
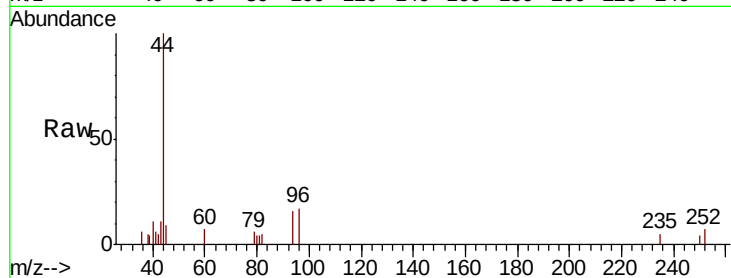




#5
Bromomethane
Concen: Below Cal
RT: 2.57 min Scan# 247
Delta R.T. 0.00 min
Lab File: VN051261.D
Acq: 16 Sep 2018 7:51

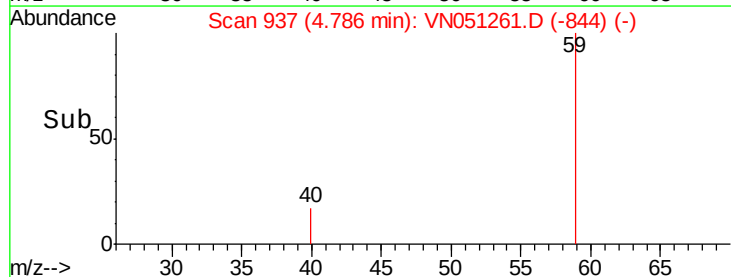
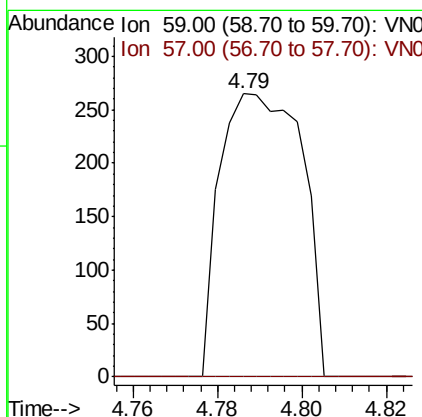
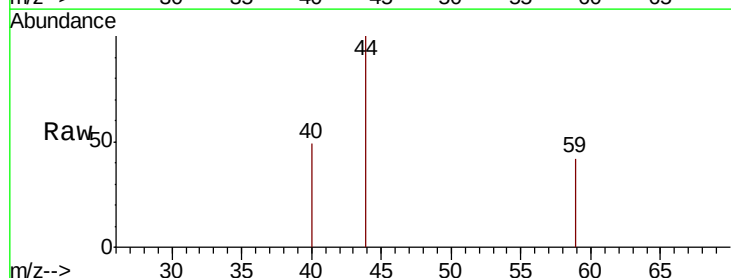
Instrument :
MSVOA_N
ClientSampleId :

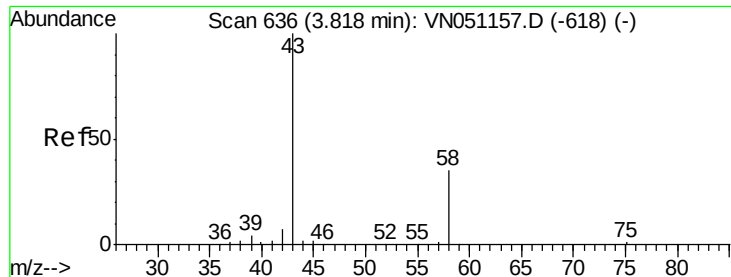
Tot Ion: 94 Resp: 1434
Ion Ratio Lower Upper
94 100
96 79.6 75.9 113.9



#11
Tert butyl alcohol
Concen: 1.03 ug/l
RT: 4.79 min Scan# 937
Delta R.T. -0.00 min
Lab File: VN051261.D
Acq: 16 Sep 2018 7:51

Tgt Ion: 59 Resp: 357
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#





#16

Acetone

Concen: 2.66 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051261.D

Acq: 16 Sep 2018 7:51

Instrument :

MSVOA_N

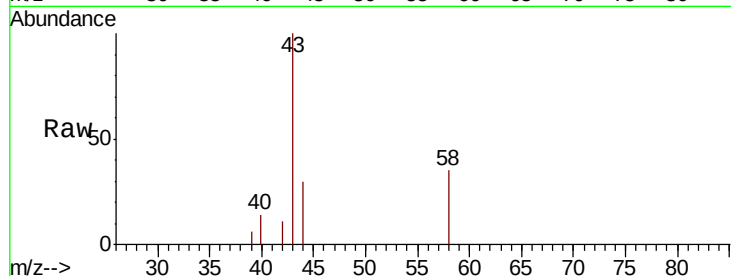
ClientSampled :

Tot Ion: 43 Resp: 9498

Ion Ratio Lower Upper

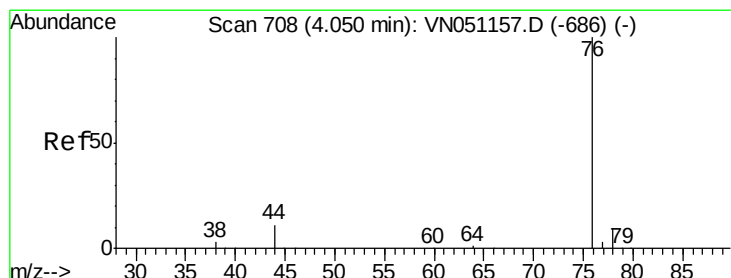
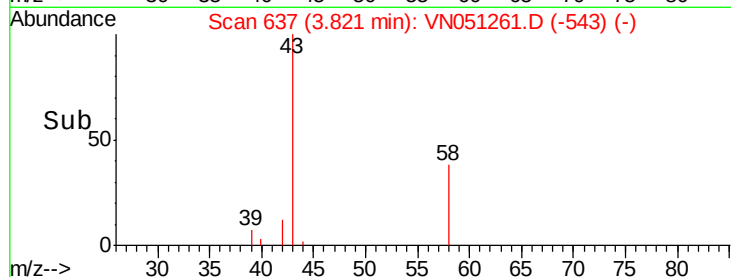
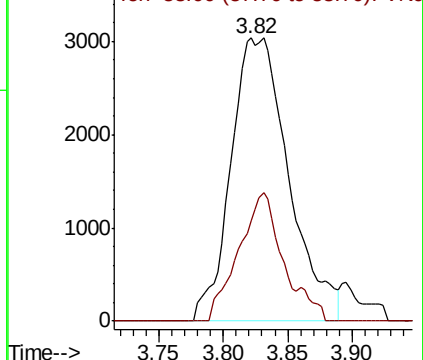
43 100

58 35.3 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VN051157.D (-618) (-)

Ion 58.00 (57.70 to 58.70): VN051157.D (-618) (-)



#17

Carbon Disulfide

Concen: 0.21 ug/l

RT: 4.06 min Scan# 710

Delta R.T. 0.01 min

Lab File: VN051261.D

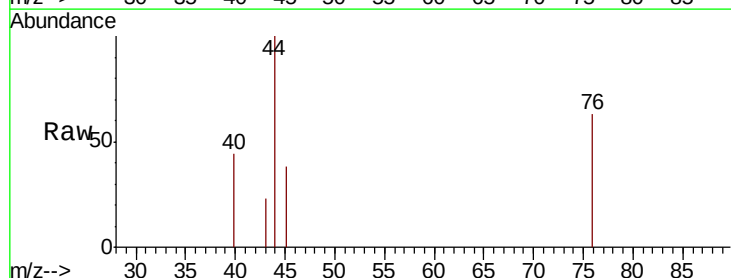
Acq: 16 Sep 2018 7:51

Tgt Ion: 76 Resp: 1231

Ion Ratio Lower Upper

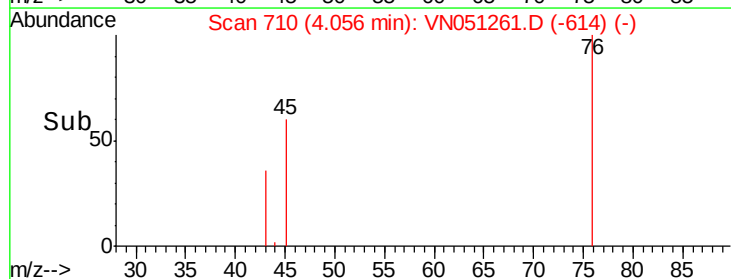
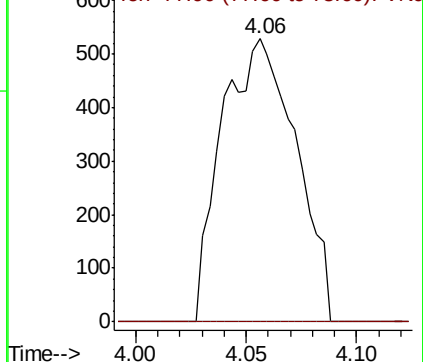
76 100

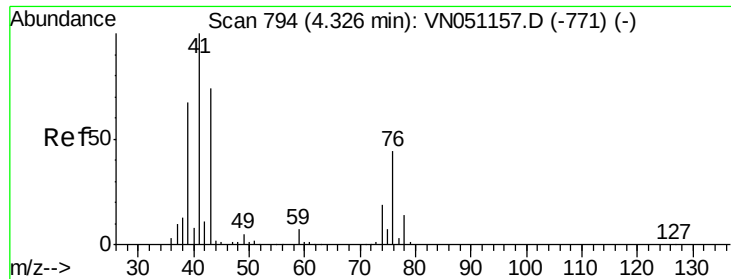
78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VN051157.D (-686) (-)

Ion 77.90 (77.60 to 78.60): VN051157.D (-686) (-)

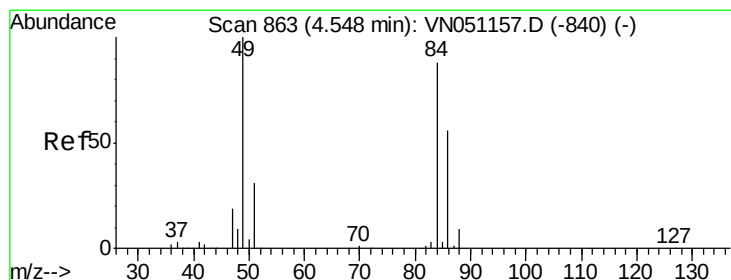
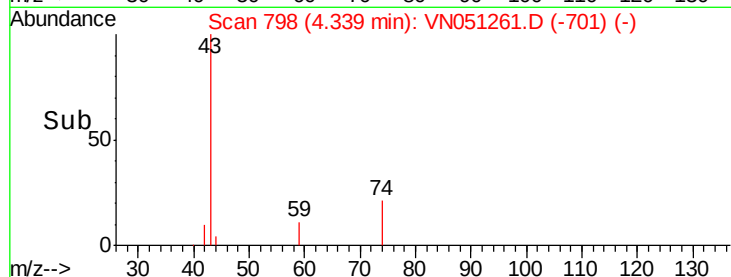
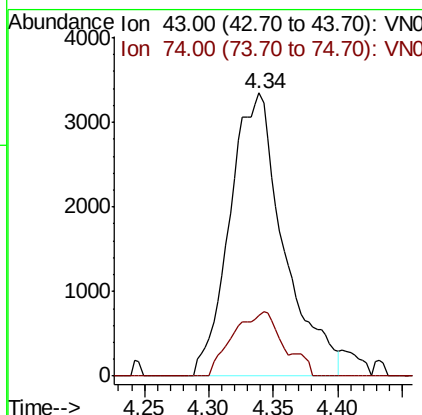
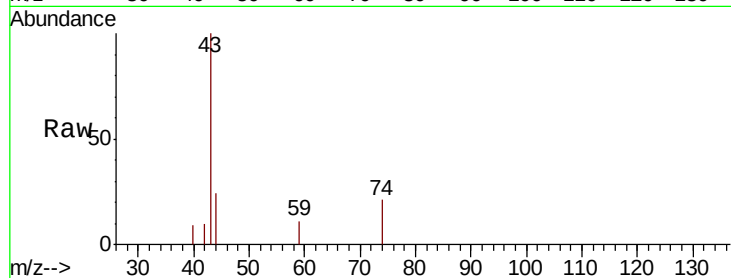




#18
Methyl Acetate
Concen: 2.67 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN051261.D
Acq: 16 Sep 2018 7:51

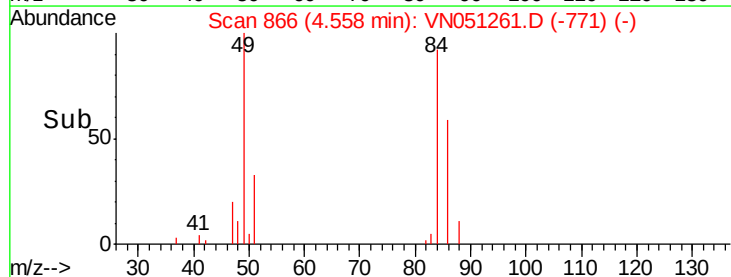
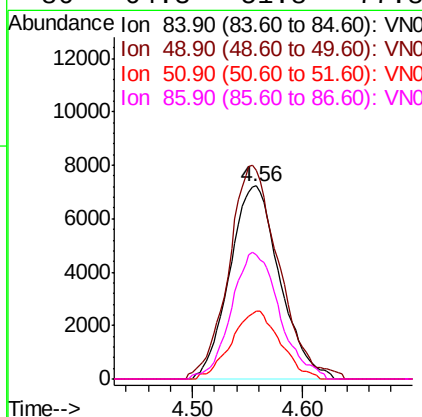
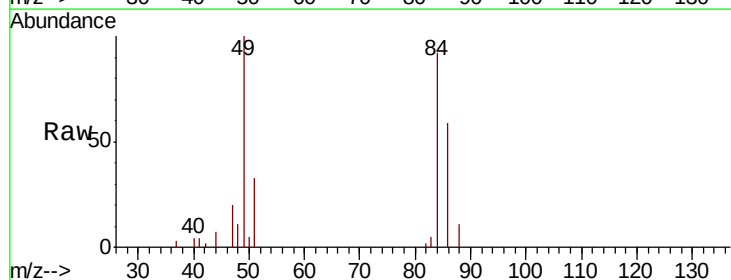
Instrument :
MSVOA_N
ClientSampleId :

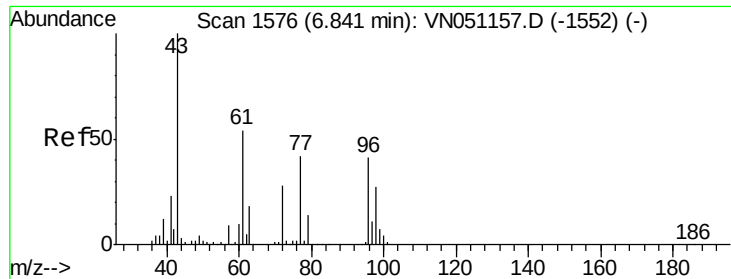
Tot Ion: 43 Resp: 9727
Ion Ratio Lower Upper
43 100
74 21.6 20.7 31.1



#20
Methylene Chloride
Concen: 4.53 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN051261.D
Acq: 16 Sep 2018 7:51

Tgt Ion: 84 Resp: 22769
Ion Ratio Lower Upper
84 100
49 105.8 90.2 135.2
51 35.3 28.4 42.6
86 64.3 51.8 77.8

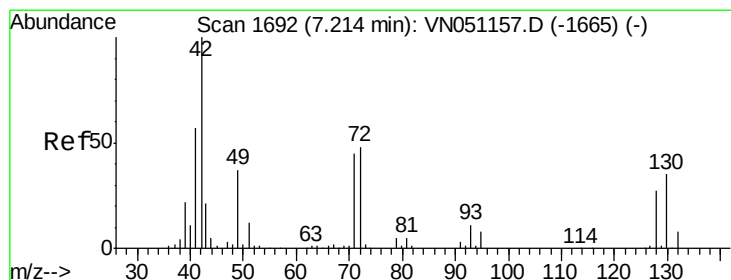
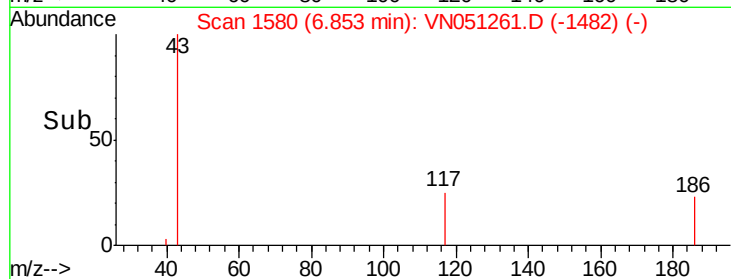
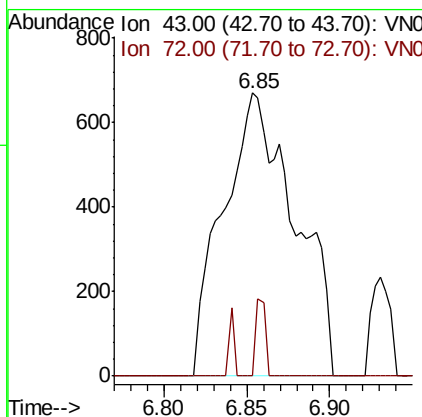
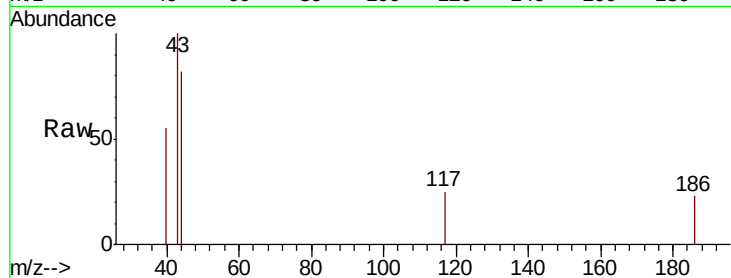




#25
2-Butanone
Concen: 1.13 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN051261.D
Acq: 16 Sep 2018 7:51

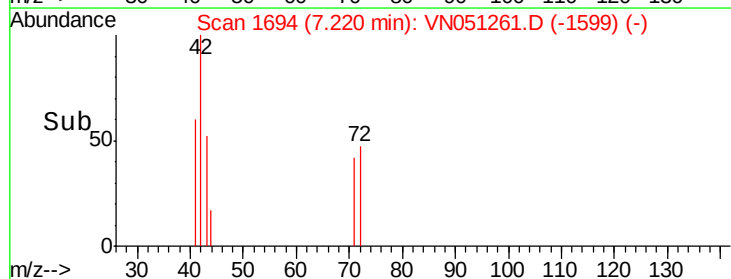
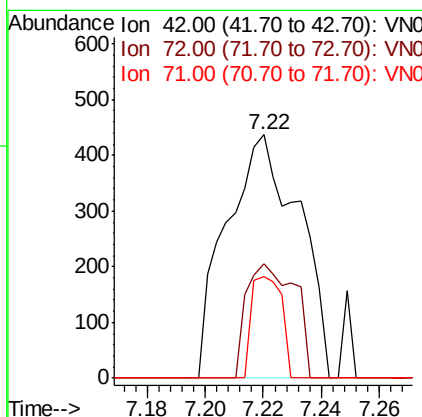
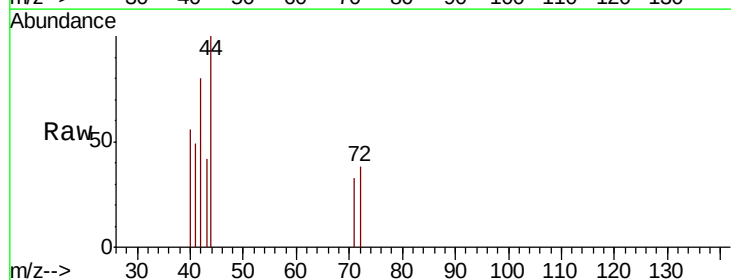
Instrument :
MSVOA_N
ClientSampled :

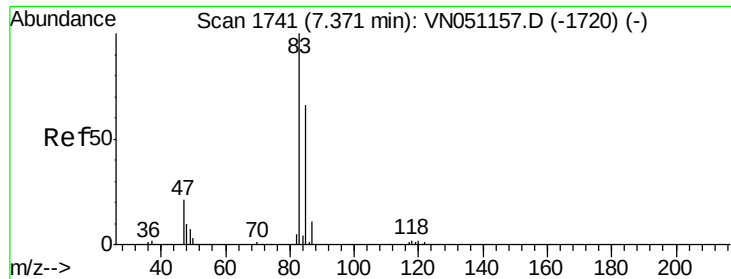
Tot Ion: 43 Resp: 2023
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#



#29
Tetrahydrofuran
Concen: 0.68 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN051261.D
Acq: 16 Sep 2018 7:51

Tgt Ion: 42 Resp: 756
Ion Ratio Lower Upper
42 100
72 31.2 37.4 56.0#
71 17.3 34.7 52.1#

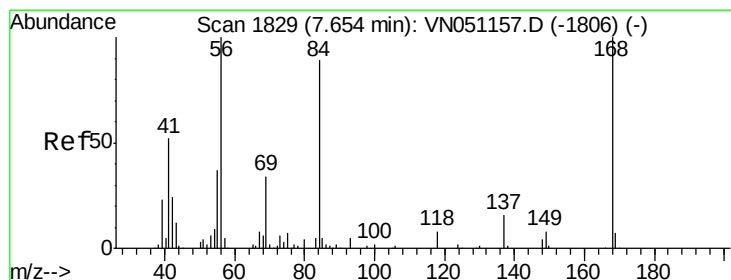
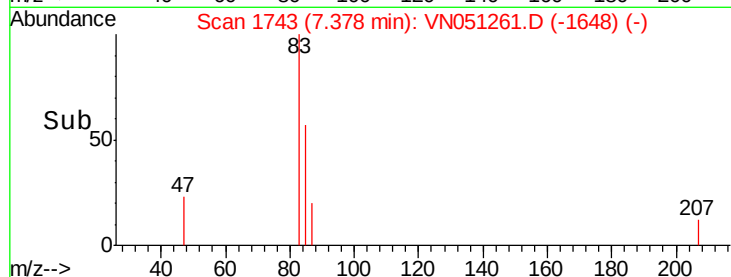
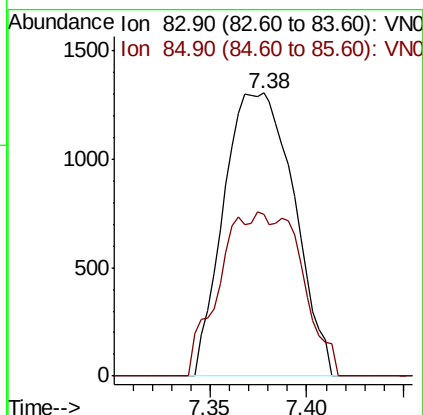
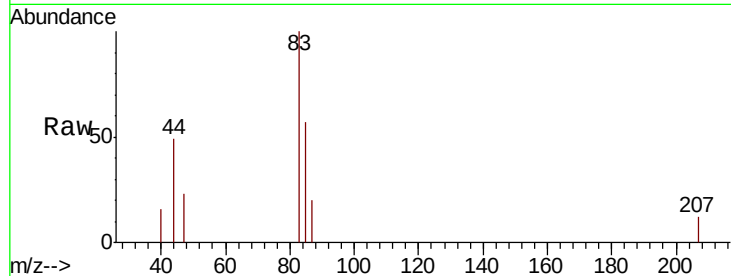




#30
Chloroform
Concen: 0.39 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.01 min
Lab File: VN051261.D
Acq: 16 Sep 2018 7:51

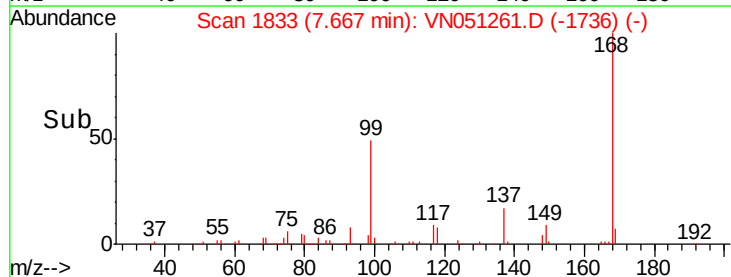
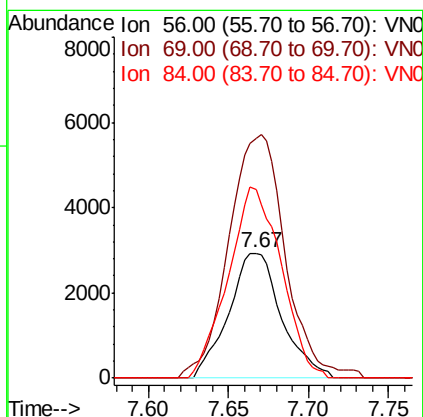
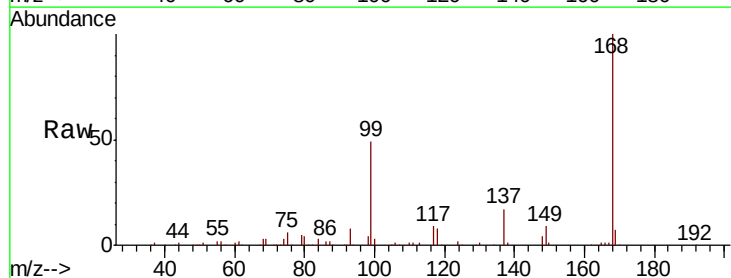
Instrument :
MSVOA_N
ClientSampled :

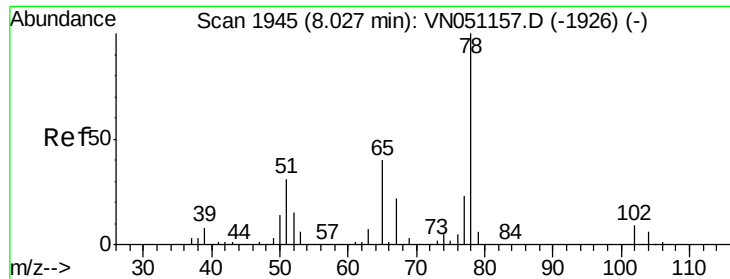
Tot Ion: 83 Resp: 3284
Ion Ratio Lower Upper
83 100
85 57.2 52.6 79.0



#31
Cyclohexane
Concen: 0.67 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051261.D
Acq: 16 Sep 2018 7:51

Tgt Ion: 56 Resp: 6655
Ion Ratio Lower Upper
56 100
69 186.2 26.3 39.5#
84 151.6 69.4 104.0#





#33

1,2-Dichloroethane-d4

Concen: 49.77 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051261.D

Acq: 16 Sep 2018 7:51

Instrument :

MSVOA_N

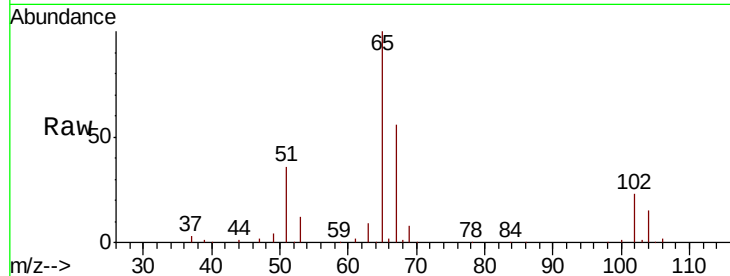
ClientSampled :

Tot Ion: 65 Resp: 226503

Ion Ratio Lower Upper

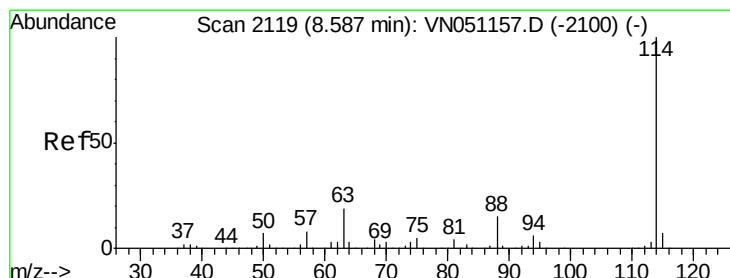
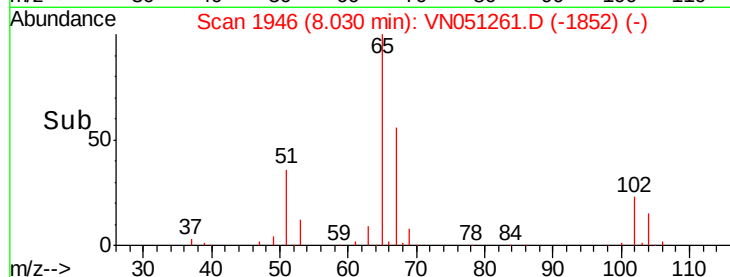
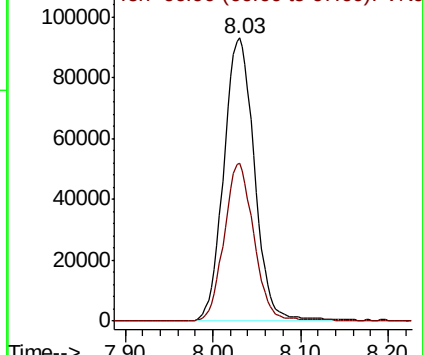
65 100

67 54.2 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN051261.D

Acq: 16 Sep 2018 7:51

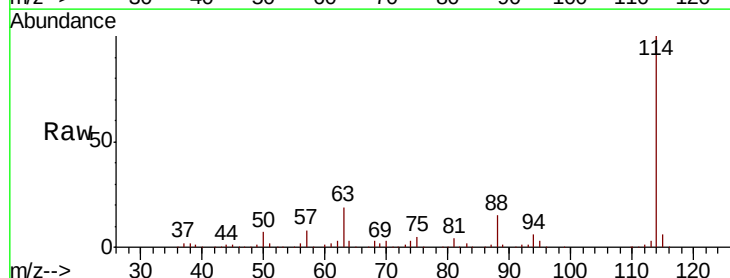
Tgt Ion: 114 Resp: 630800

Ion Ratio Lower Upper

114 100

63 18.8 0.0 37.8

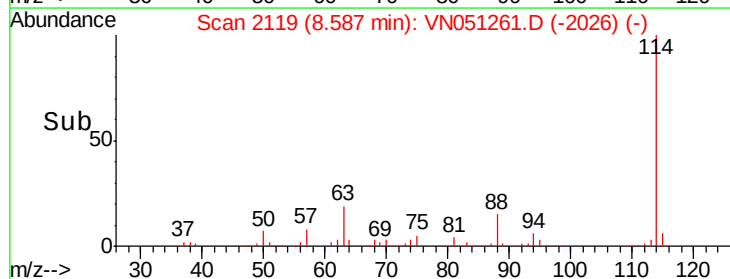
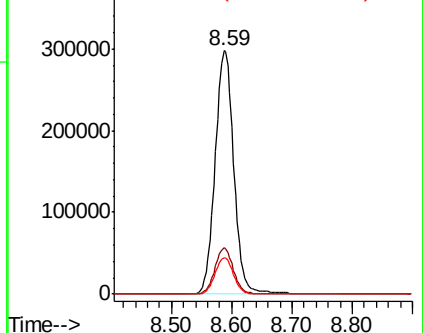
88 15.0 0.0 30.8

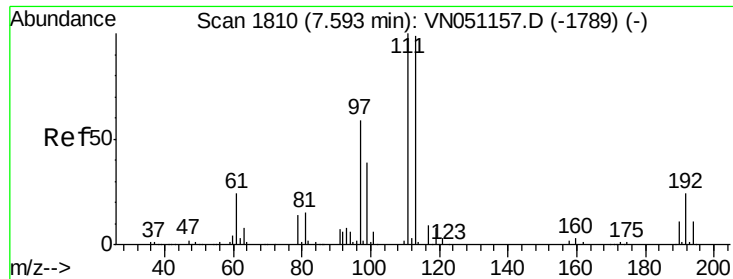


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

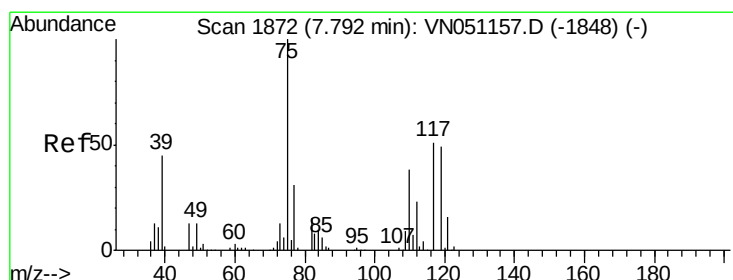
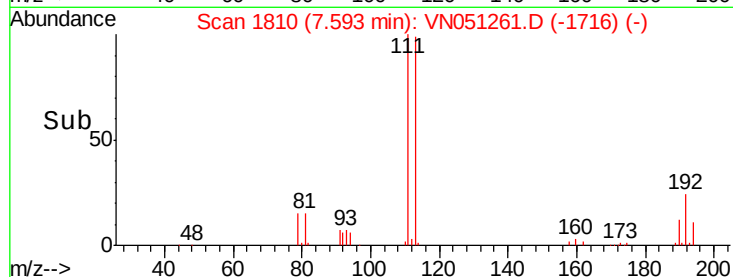
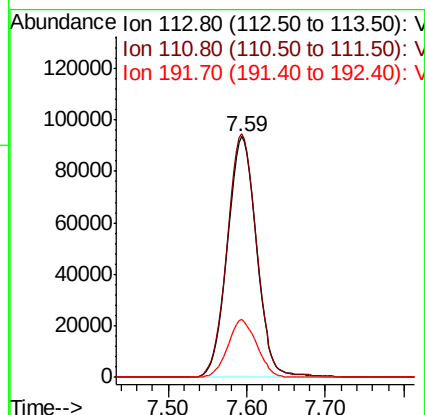
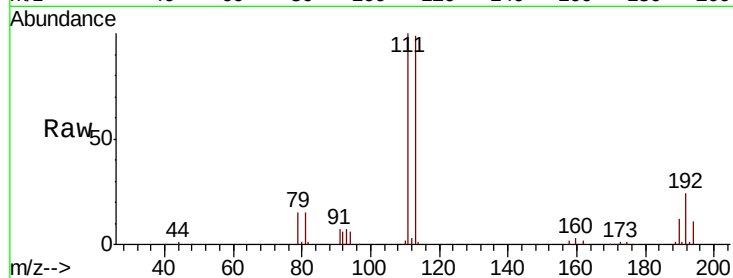




#35
 Dibromofluoromethane
 Concen: 50.61 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051261.D
 Acq: 16 Sep 2018 7:51

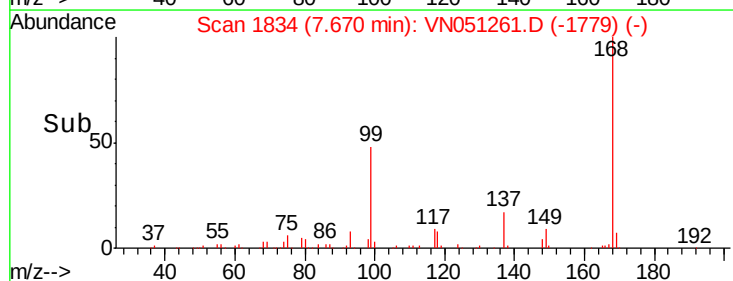
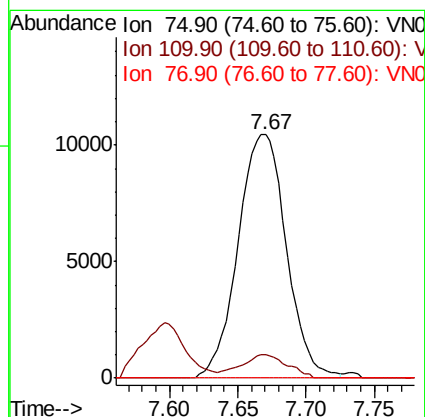
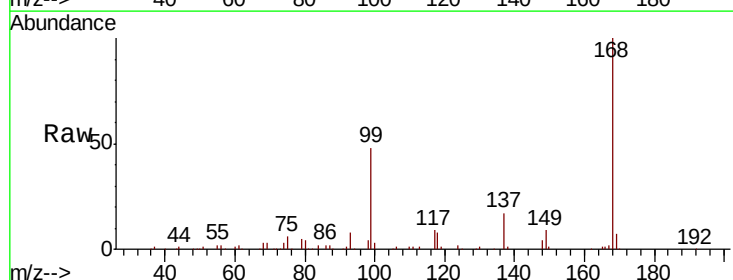
Instrument :
 MSVOA_N
 ClientSampleId :

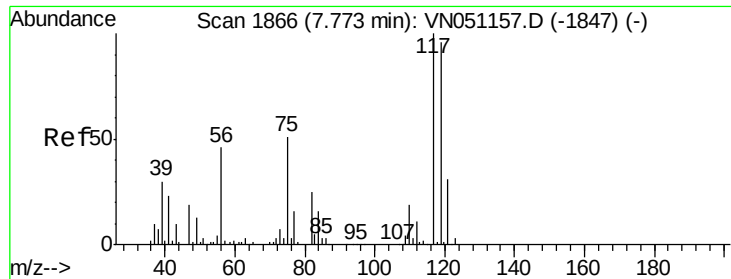
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.2	83.0	124.6
192	23.7	18.7	28.1



#36
 1,1-Dichloropropene
 Concen: 3.71 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.12 min
 Lab File: VN051261.D
 Acq: 16 Sep 2018 7:51

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	18.6	55.8#
77	0.0	25.2	37.8#

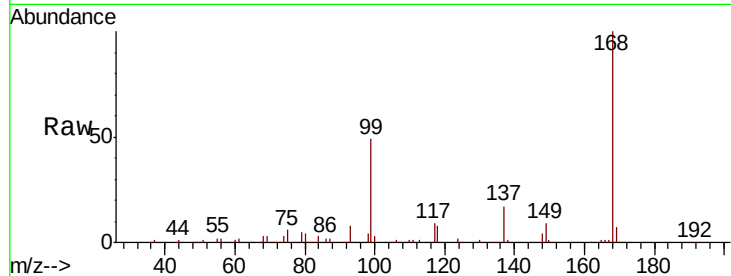




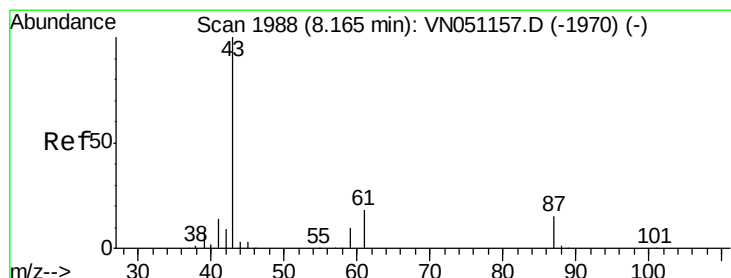
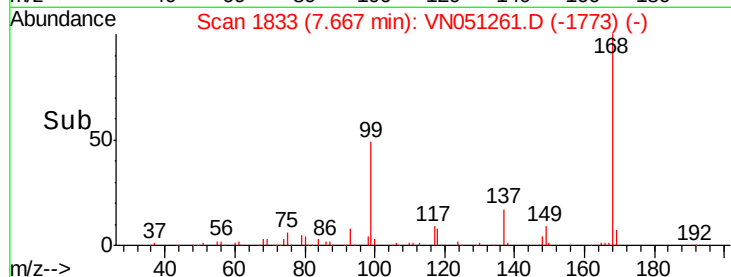
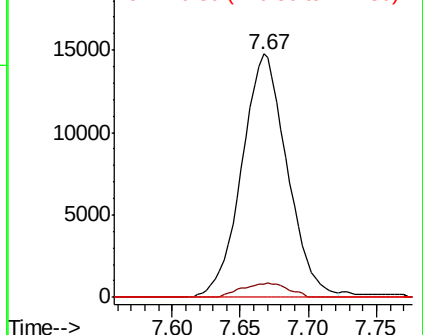
#38
Carbon Tetrachloride
Concen: 4.99 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051261.D
Acq: 16 Sep 2018 7:51

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 34026
Ion Ratio Lower Upper
117 100
119 5.6 76.8 115.2#
121 0.0 24.6 36.8#

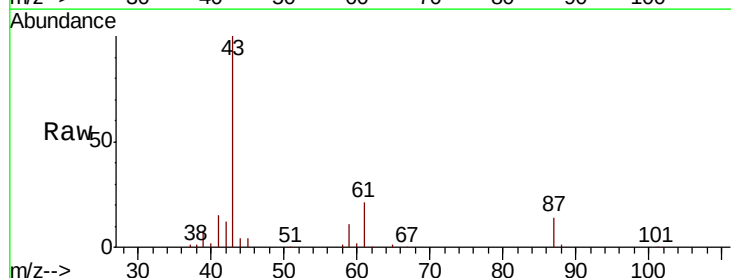


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

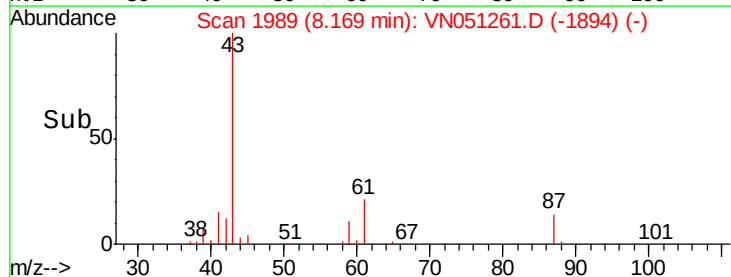
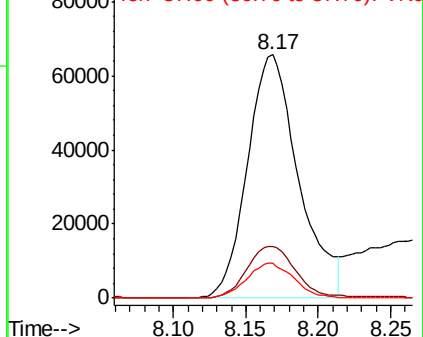


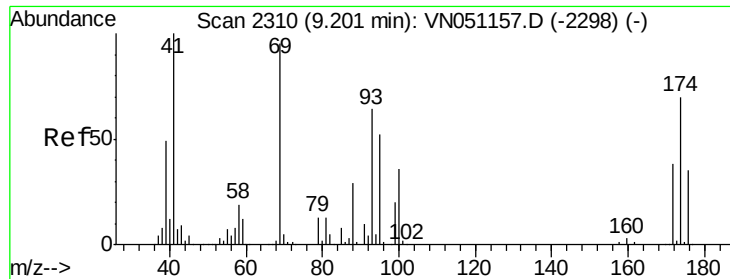
#43
Isopropyl Acetate
Concen: 22.85 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.01 min
Lab File: VN051261.D
Acq: 16 Sep 2018 7:51

Tgt Ion: 43 Resp: 161690
Ion Ratio Lower Upper
43 100
61 20.3 25.0 37.6#
87 13.2 11.8 17.8



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

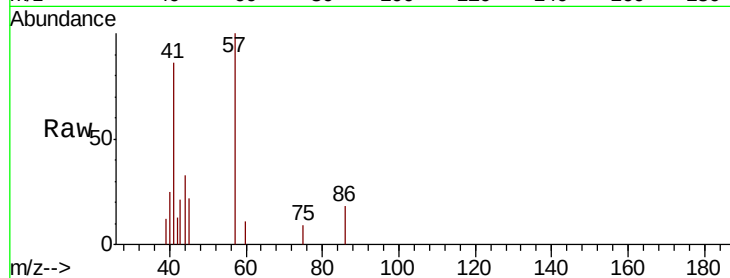




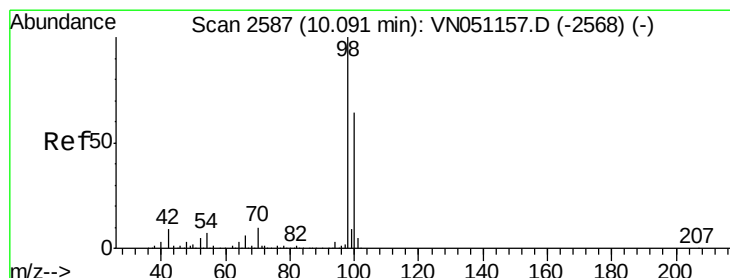
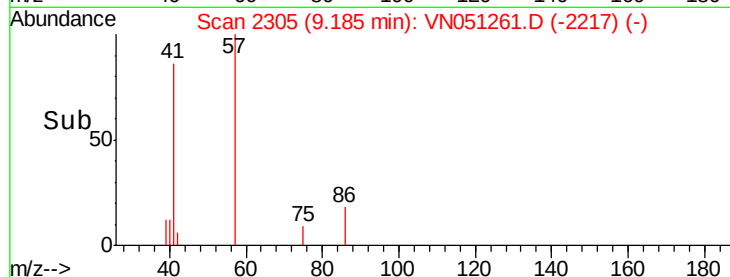
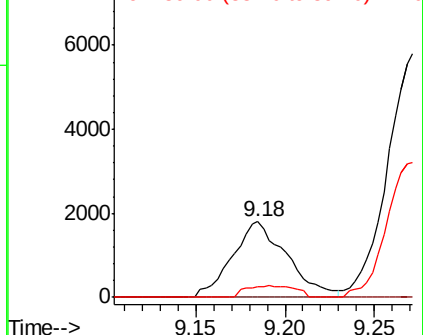
#48
Methvl methacrylate
Concen: 1.12 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN051261.D
Acq: 16 Sep 2018 7:51

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 3856
Ion Ratio Lower Upper
41 100
69 0.0 77.7 116.5#
39 13.5 41.6 62.4#

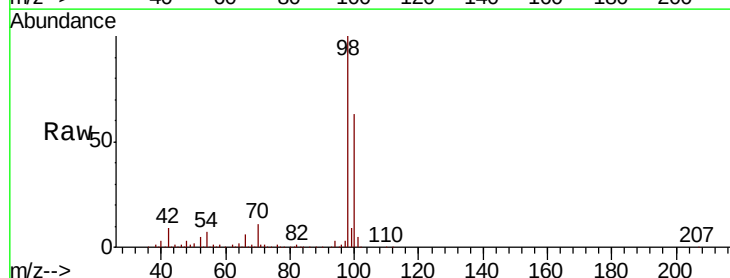


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

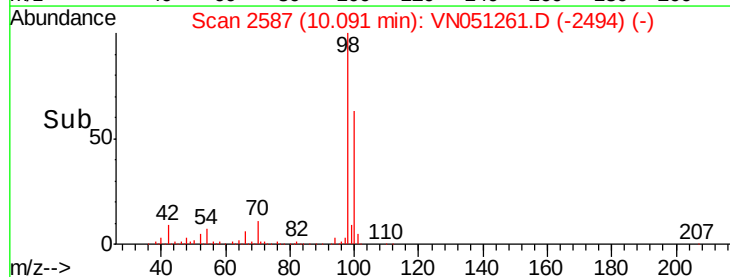
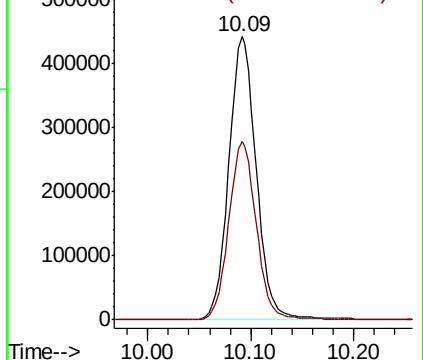


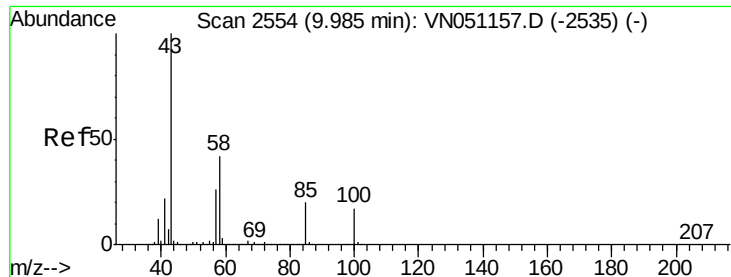
#50
Toluene-d8
Concen: 45.71 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051261.D
Acq: 16 Sep 2018 7:51

Tgt Ion: 98 Resp: 822147
Ion Ratio Lower Upper
98 100
100 63.4 52.0 78.0



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





#51

4-Methyl-2-Pentanone

Concen: 0.27 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN051261.D

Acq: 16 Sep 2018 7:51

Instrument :

MSVOA_N

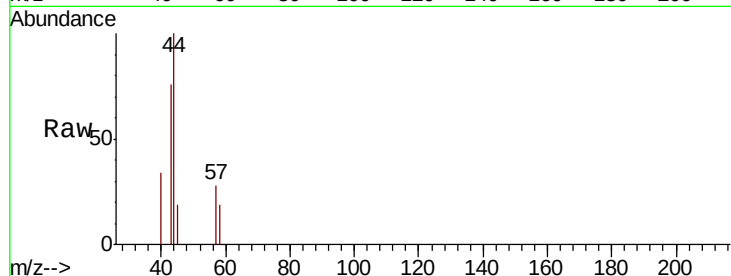
ClientSampled :

Tot Ion: 43 Resp: 1056

Ion Ratio Lower Upper

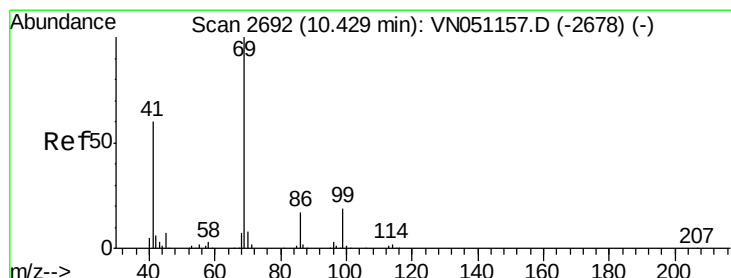
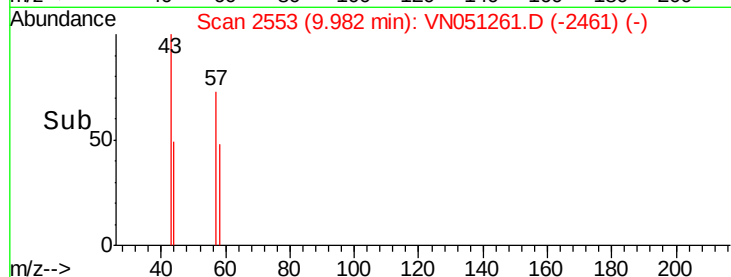
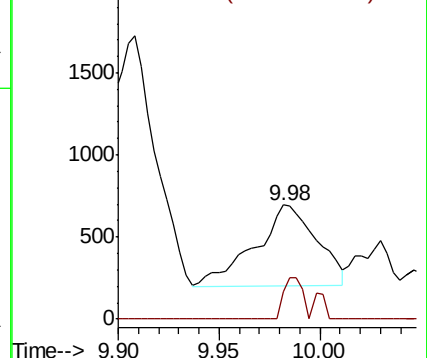
43 100

58 15.6 33.5 50.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#56

Ethyl methacrylate

Concen: 2.49 ug/l

RT: 10.23 min Scan# 2629

Delta R.T. -0.20 min

Lab File: VN051261.D

Acq: 16 Sep 2018 7:51

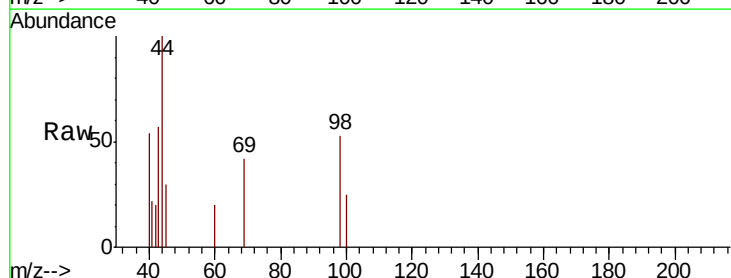
Tgt Ion: 69 Resp: 264

Ion Ratio Lower Upper

69 100

41 48.5 47.8 71.8

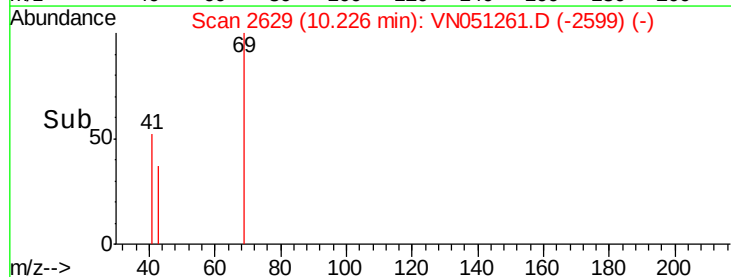
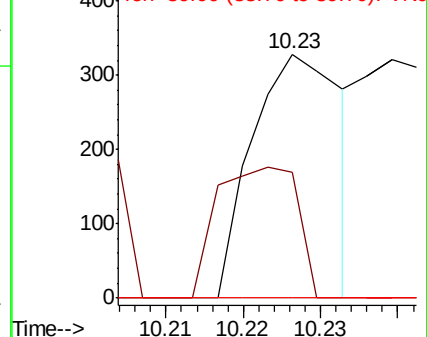
39 0.0 23.0 34.4#

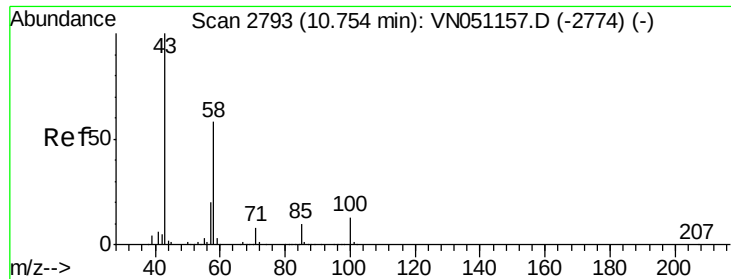


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

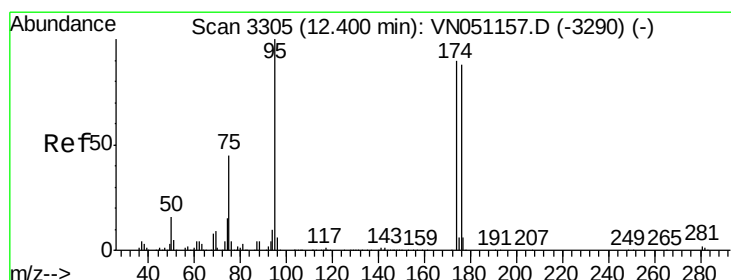
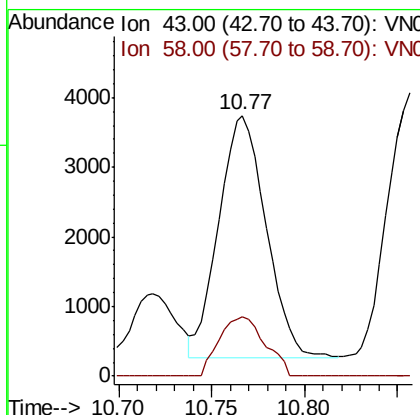
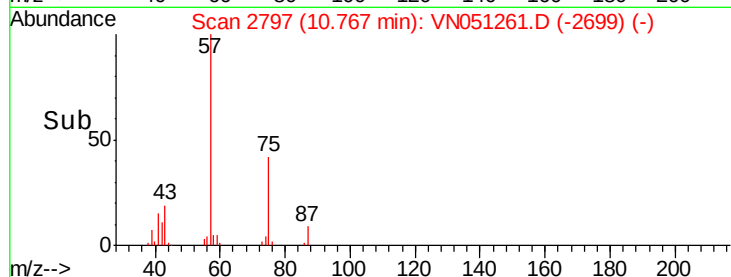
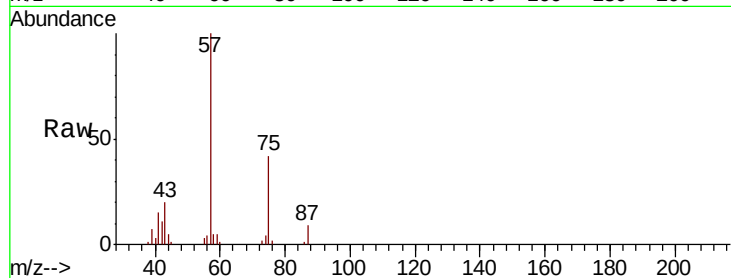




#59
2-Hexanone
Concen: 2.31 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.02 min
Lab File: VN051261.D
Acq: 16 Sep 2018 7:51

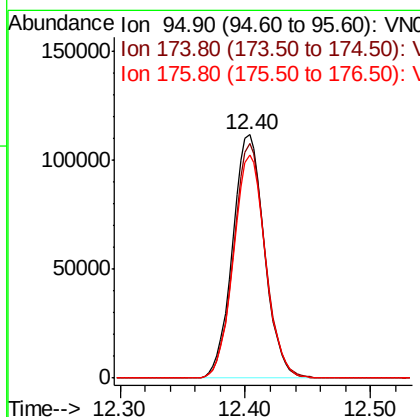
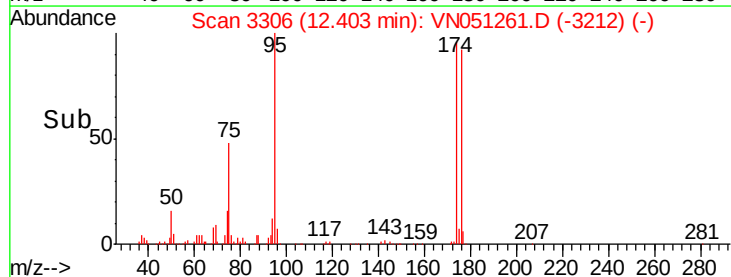
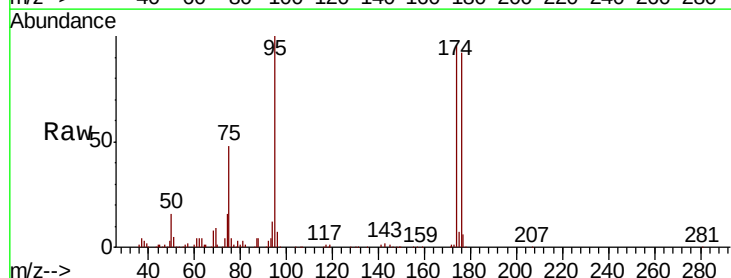
Instrument :
MSVOA_N
ClientSampleId :

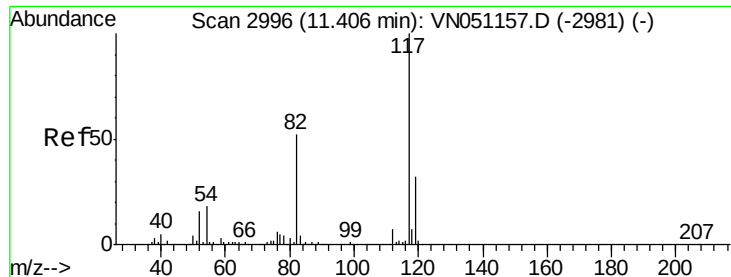
Tot Ion: 43 Resp: 6143
Ion Ratio Lower Upper
43 100
58 23.8 29.3 88.0#



#62
4-Bromofluorobenzene
Concen: 33.00 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051261.D
Acq: 16 Sep 2018 7:51

Tgt Ion: 95 Resp: 196320
Ion Ratio Lower Upper
95 100
174 95.7 0.0 184.8
176 92.4 0.0 178.6

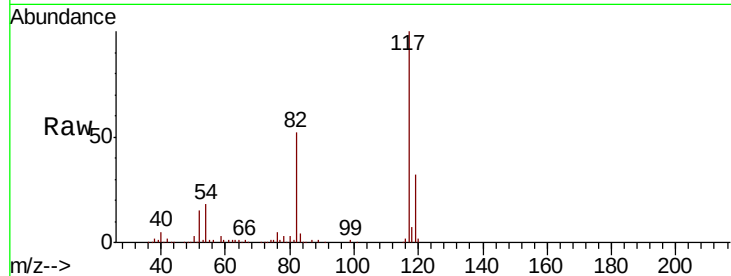




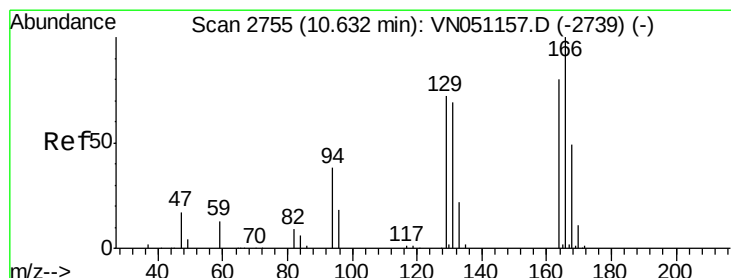
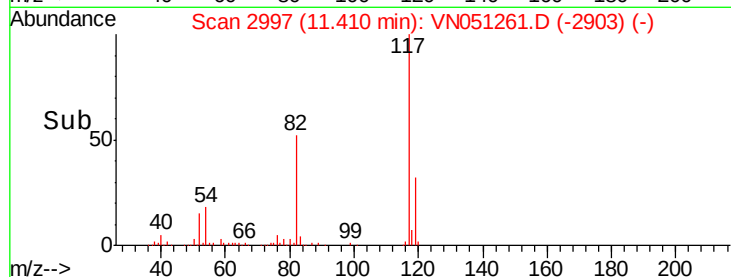
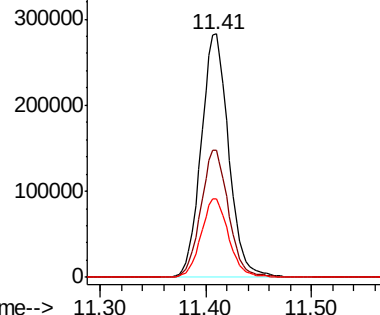
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051261.D
Acq: 16 Sep 2018 7:51

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 509311
Ion Ratio Lower Upper
117 100
82 52.0 41.8 62.6
119 32.4 26.2 39.2

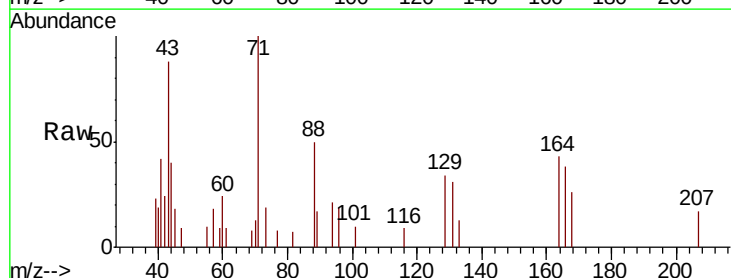


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

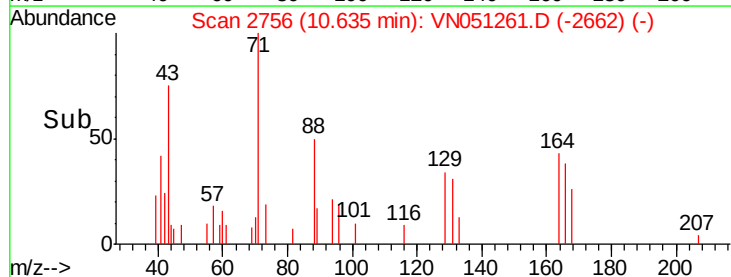
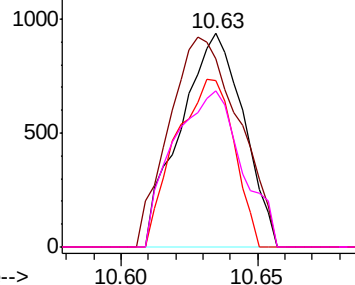


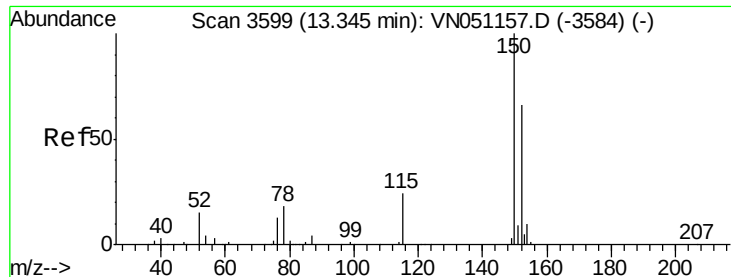
#64
Tetrachloroethene
Concen: 0.32 ug/l
RT: 10.63 min Scan# 2756
Delta R.T. 0.00 min
Lab File: VN051261.D
Acq: 16 Sep 2018 7:51

Tgt Ion:164 Resp: 1505
Ion Ratio Lower Upper
164 100
166 87.8 101.3 151.9#
129 78.0 72.2 108.2
131 73.0 70.2 105.2



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051261.D

Acq: 16 Sep 2018 7:51

Instrument :

MSVOA_N

ClientSampleId :

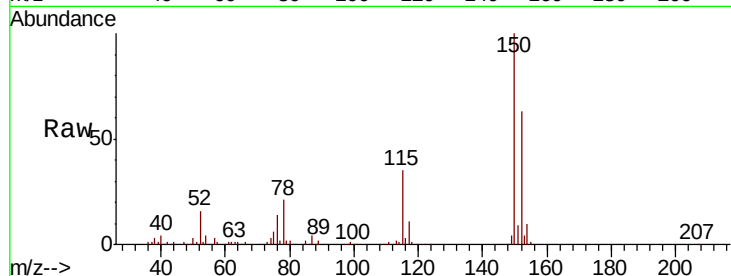
Tot Ion:152 Resp: 137307

Ion Ratio Lower Upper

152 100

115 54.2 28.2 84.7

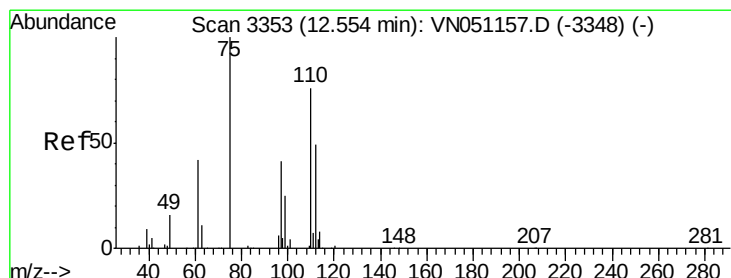
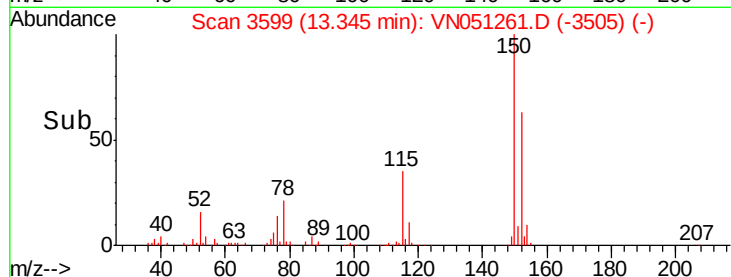
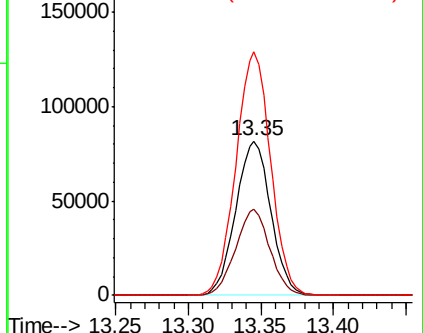
150 156.0 0.0 349.0



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: 43.90 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051261.D

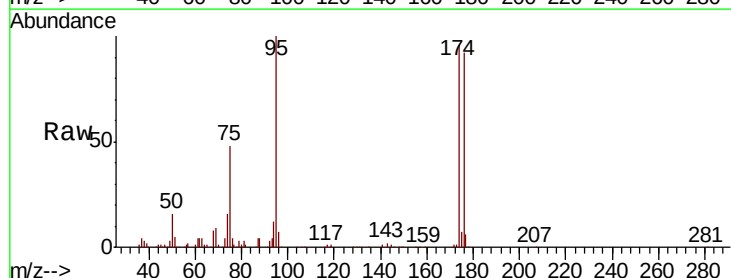
Acq: 16 Sep 2018 7:51

Tgt Ion: 75 Resp: 93830

Ion Ratio Lower Upper

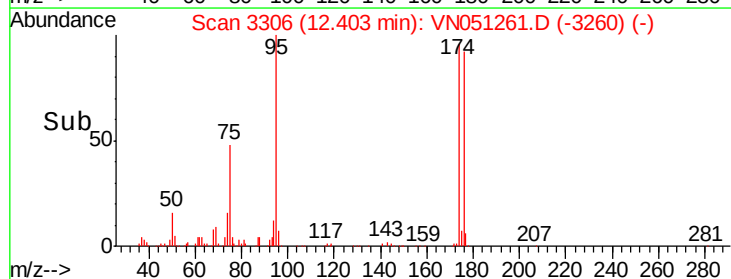
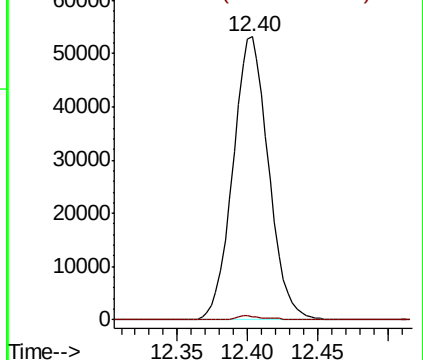
75 100

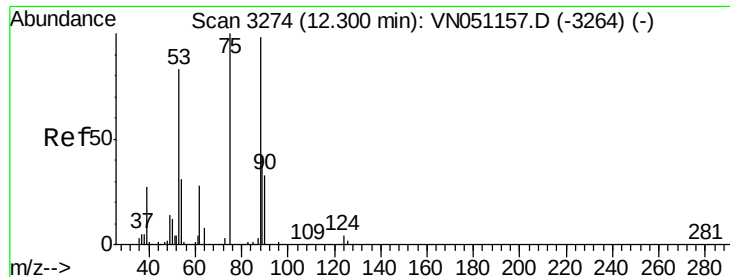
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 129.78 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051261.D

Acq: 16 Sep 2018 7:51

Instrument :

MSVOA_N

ClientSampleId :

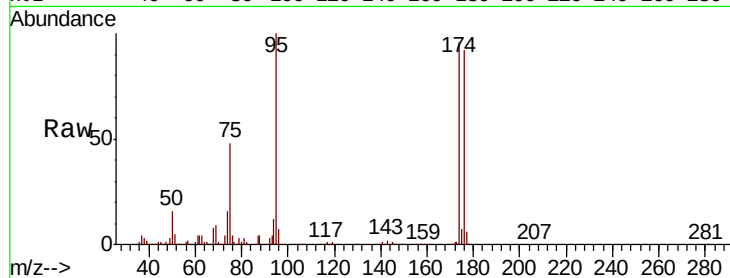
Tot Ion: 75 Resp: 93830

Ion Ratio Lower Upper

75 100

53 0.2 67.8 101.8#

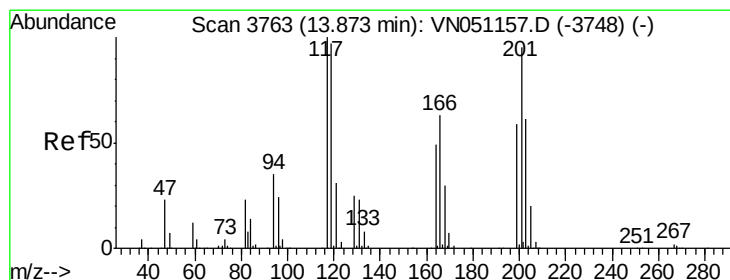
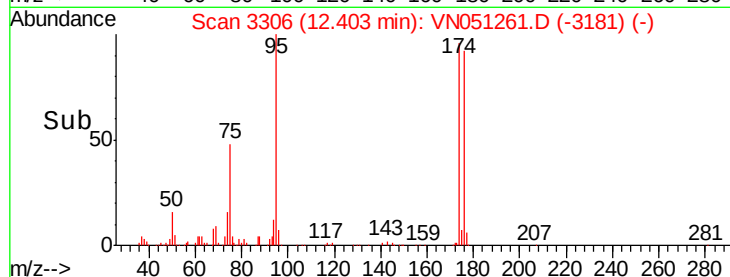
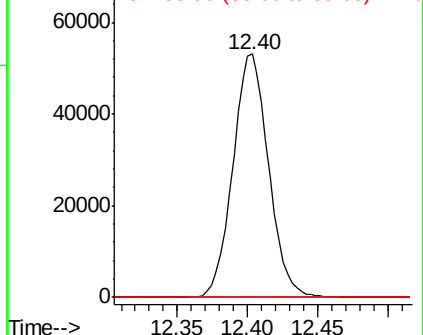
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#90

Hexachloroethane

Concen: Below Cal

RT: 14.00 min Scan# 3802

Delta R.T. 0.13 min

Lab File: VN051261.D

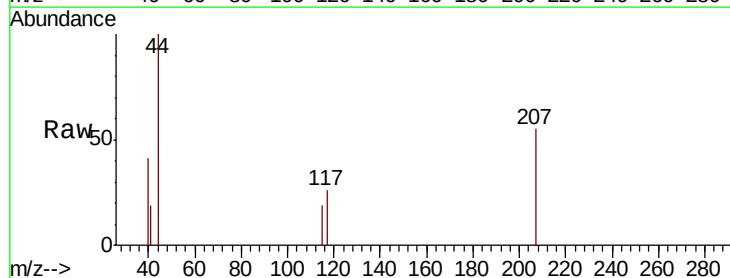
Acq: 16 Sep 2018 7:51

Tgt Ion: 117 Resp: 220

Ion Ratio Lower Upper

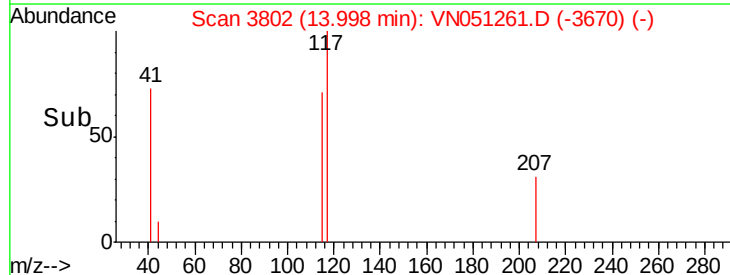
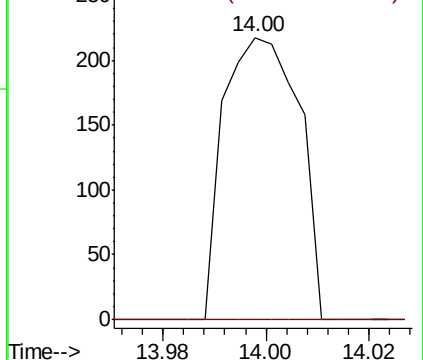
117 100

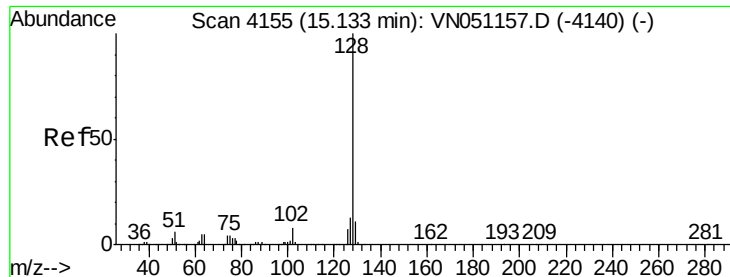
201 0.0 47.3 142.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

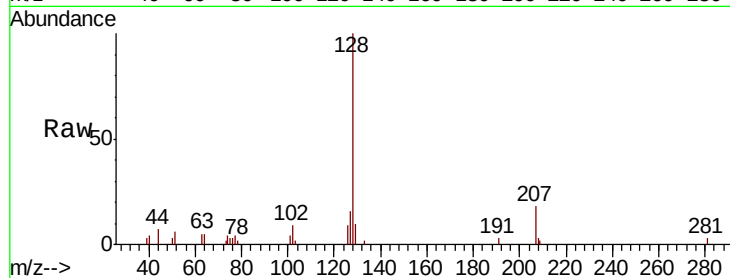




#95
Naphthalene
Concen: 8.09 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN051261.D
Acq: 16 Sep 2018 7:51

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	16.4	10.6	15.8
129	12.0	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

