

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062619\
 Data File : VN056508.D
 Acq On : 26 Jun 2019 15:58
 Operator : JC/SP
 Sample : K3543-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 27 07:40:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 21 03:45:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	359276	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	608761	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	604413	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	168999	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	205637	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	
35) Dibromofluoromethane	7.59	113	179093	47.16	ug/l	0.00
Spiked Amount			Recovery	=	94.32%	
50) Toluene-d8	10.09	98	752948	50.95	ug/l	0.00
Spiked Amount			Recovery	=	101.90%	
62) 4-Bromofluorobenzene	12.40	95	238829	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	

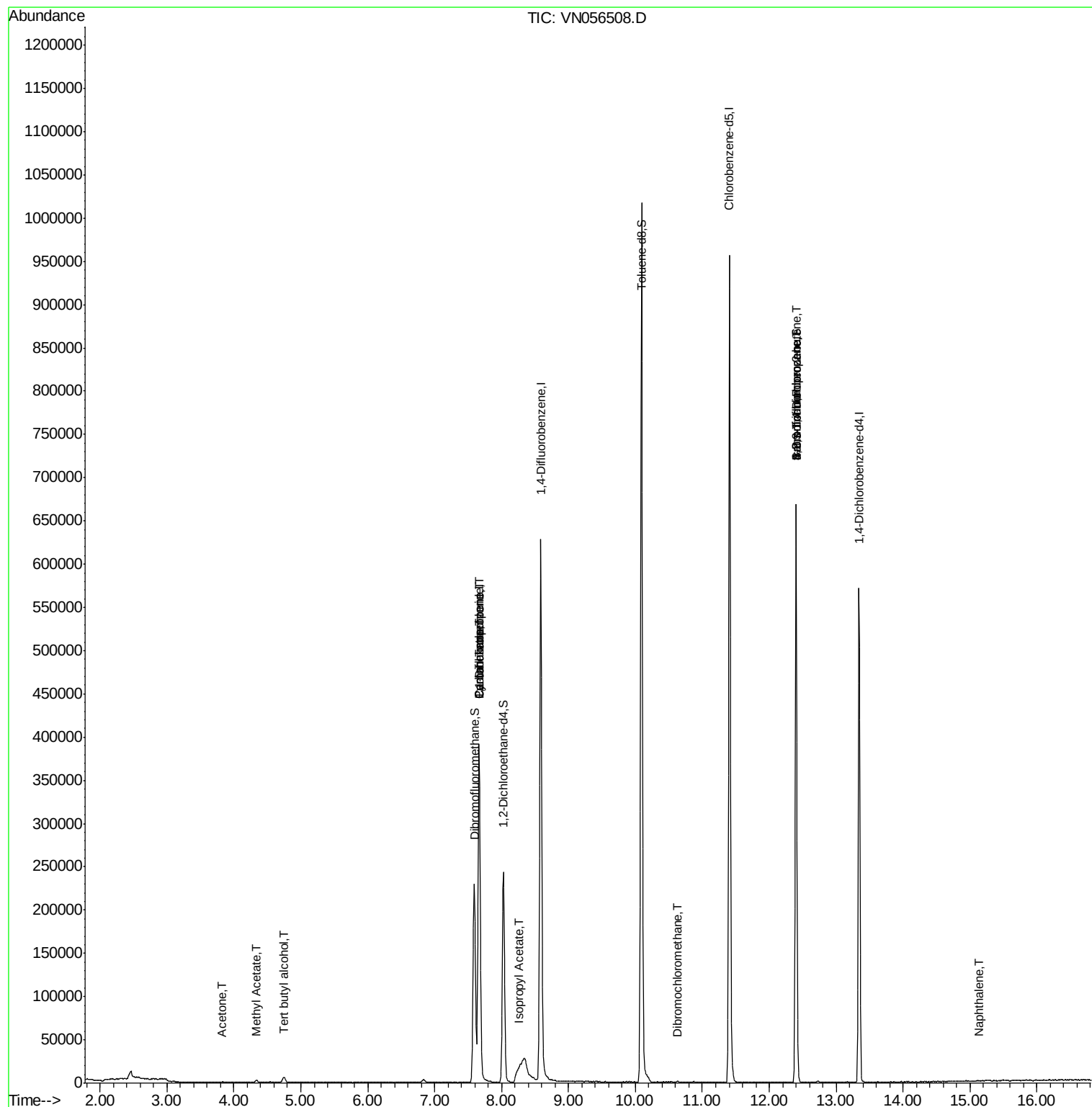
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	5793	8.638	ug/l #	74
16) Acetone	3.82	43	1409	0.706	ug/l	98
18) Methyl Acetate	4.34	43	5307	0.499	ug/l #	73
20) Methylene Chloride	4.55	84	396	Below Cal	#	78
31) Cyclohexane	7.66	56	5678	0.923	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	23222	4.334	ug/l #	45
38) Carbon Tetrachloride	7.66	117	31492	6.721	ug/l #	15
43) Isopropyl Acetate	8.25	43	15393	1.896	ug/l #	54
60) Dibromochloromethane	10.63	129	131	2.412	ug/l #	10
71) Bromoform	12.40	173	1299	3.510	ug/l #	1
73) Isopropylbenzene	12.25	105	102	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	110679	31.584	ug/l #	100
79) 2-Chlorotoluene	12.59	91	170	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	12.40	75	110679	112.256	ug/l #	8
95) Naphthalene	15.14	128	108	5.257	ug/l #	70

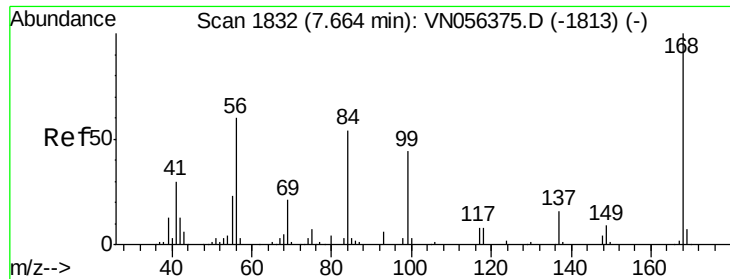
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056508.D

Acq: 26 Jun 2019 15:58

Instrument :

MSVOA_N

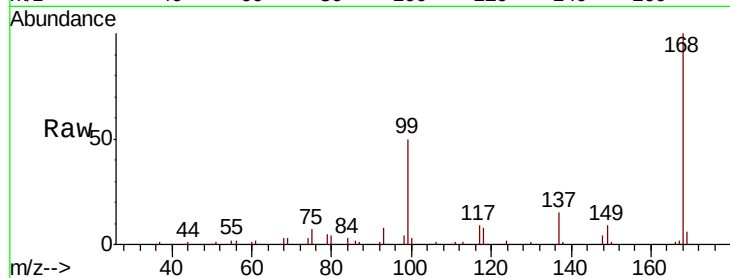
ClientSampled :

Tot Ion:168 Resp: 359276

Ion Ratio Lower Upper

168 100

99 50.0 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): VN056375.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN056375.D (-1813) (-)

7.67

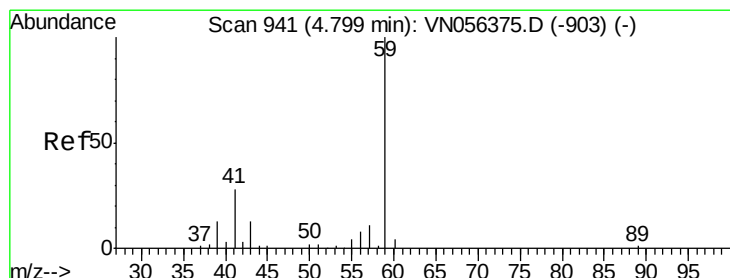
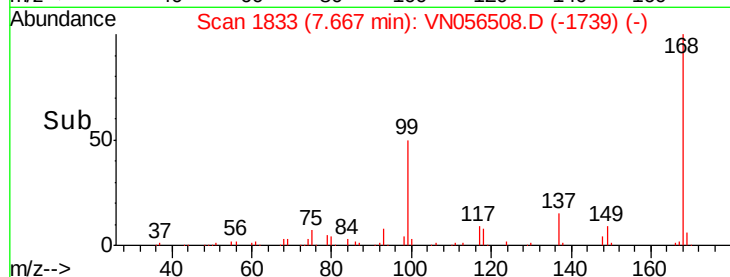
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 8.638 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.05 min

Lab File: VN056508.D

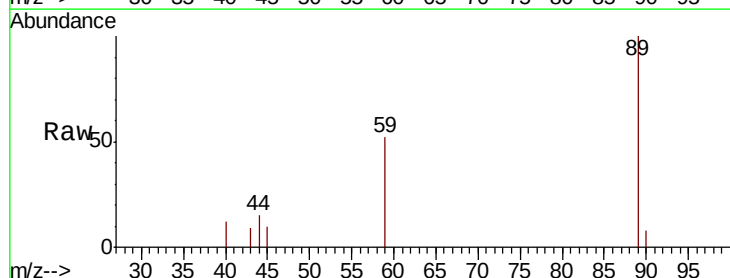
Acq: 26 Jun 2019 15:58

Tgt Ion: 59 Resp: 5793

Ion Ratio Lower Upper

59 100

57 0.0 7.6 11.4#



Abundance Ion 59.00 (58.70 to 59.70): VN056375.D (-903) (-)

Ion 57.00 (56.70 to 57.70): VN056375.D (-903) (-)

4.75

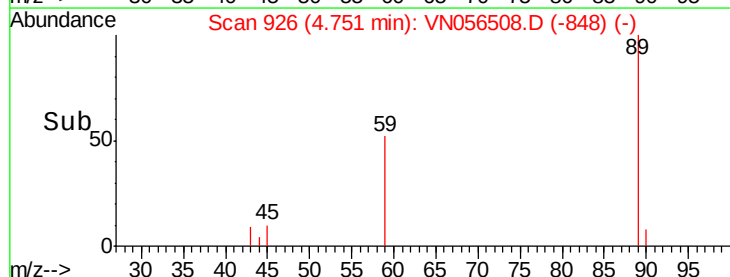
1500

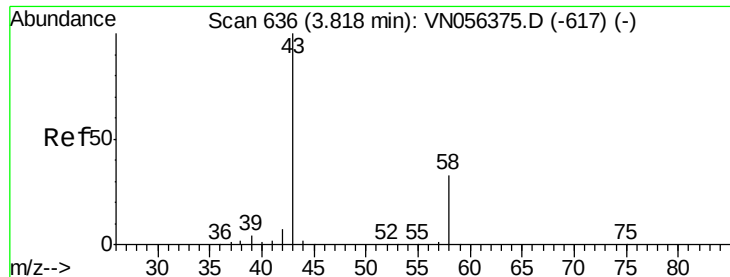
1000

500

0

Time--> 4.65 4.70 4.75 4.80





#16

Acetone

Concen: 0.706 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN056508.D

Acq: 26 Jun 2019 15:58

Instrument :

MSVOA_N

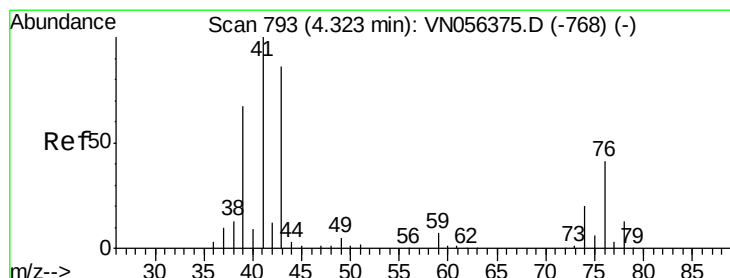
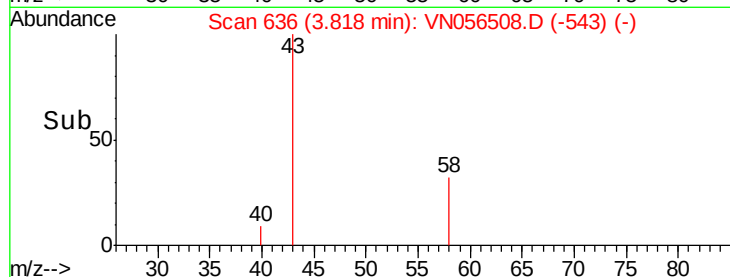
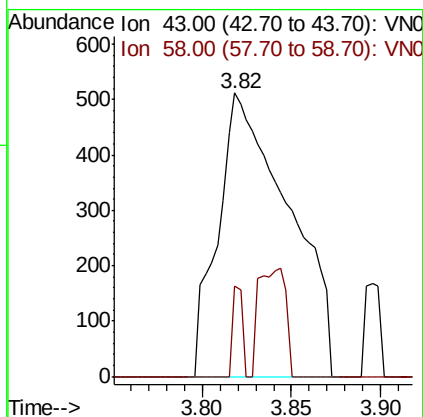
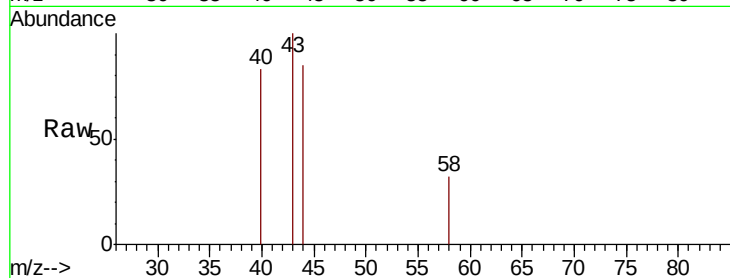
ClientSampled :

Tot Ion: 43 Resp: 1409

Ion Ratio Lower Upper

43 100

58 31.8 26.4 39.6



#18

Methyl Acetate

Concen: 0.499 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN056508.D

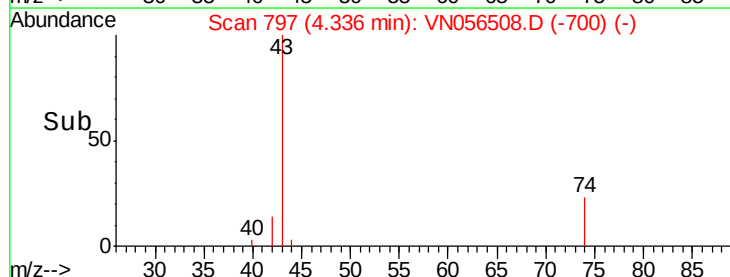
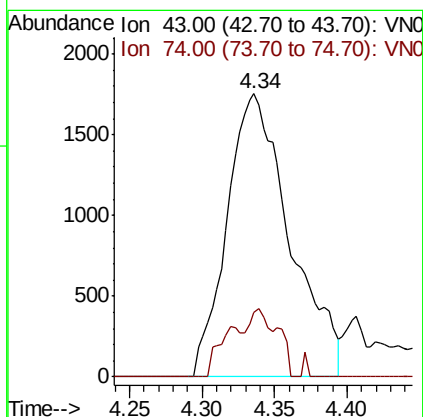
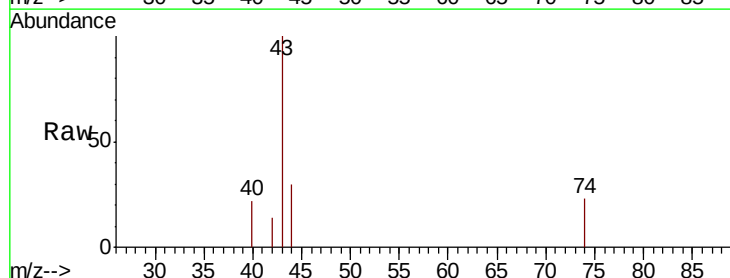
Acq: 26 Jun 2019 15:58

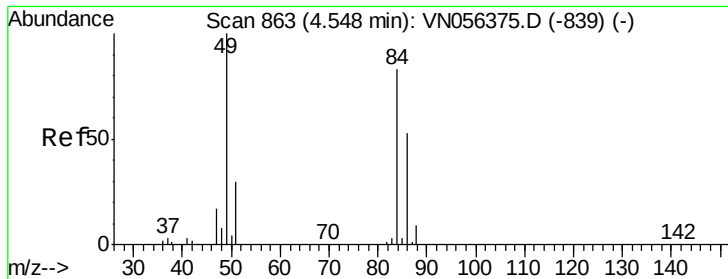
Tgt Ion: 43 Resp: 5307

Ion Ratio Lower Upper

43 100

74 10.6 19.2 28.8#

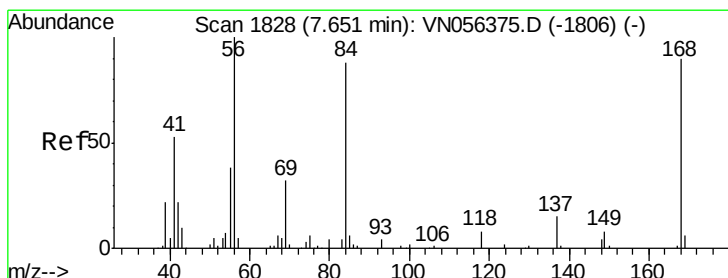
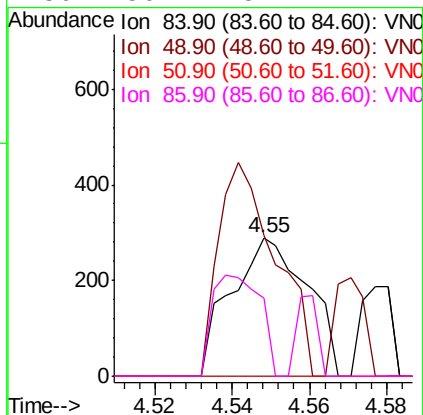
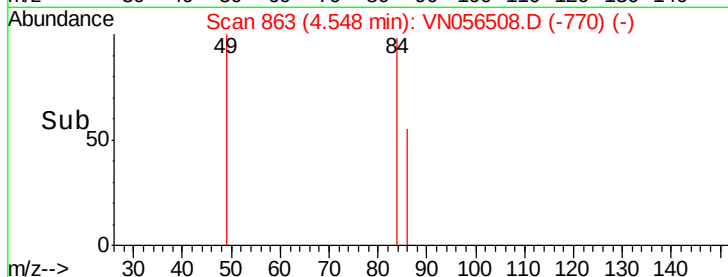
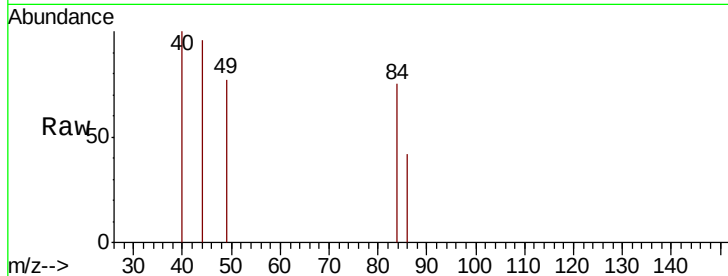




#20
Methylene Chloride
Concen: Below Cal
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN056508.D
Acq: 26 Jun 2019 15:58

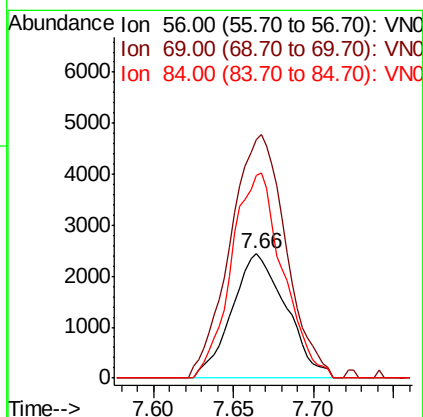
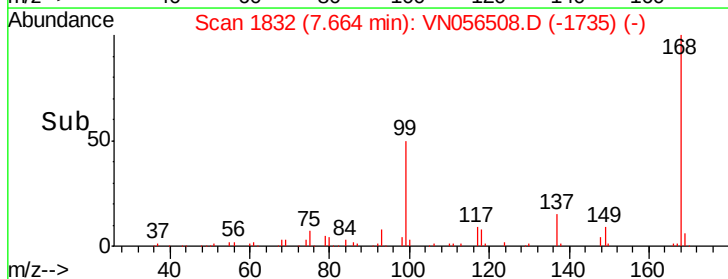
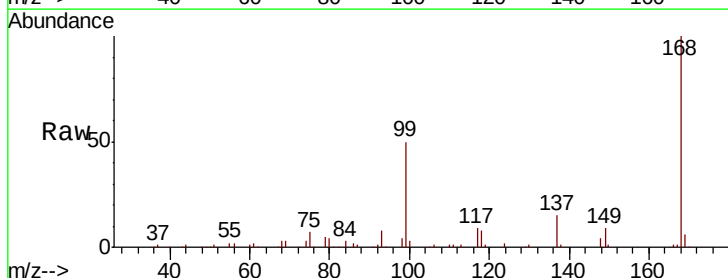
Instrument :
MSVOA_N
ClientSampled :

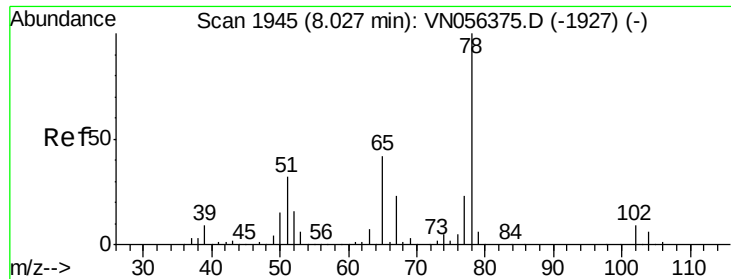
Tot Ion: 84 Resp: 396
Ion Ratio Lower Upper
84 100
49 101.7 96.4 144.6
51 0.0 28.6 43.0#
86 56.2 51.4 77.2



#31
Cyclohexane
Concen: 0.923 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN056508.D
Acq: 26 Jun 2019 15:58

Tgt Ion: 56 Resp: 5678
Ion Ratio Lower Upper
56 100
69 192.3 25.8 38.6#
84 162.7 69.4 104.0#

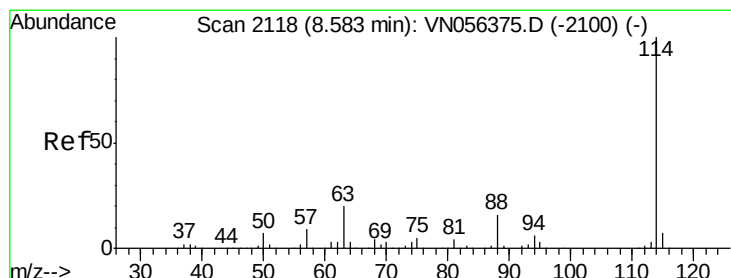
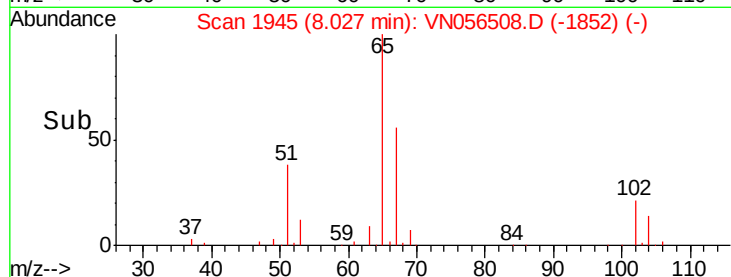
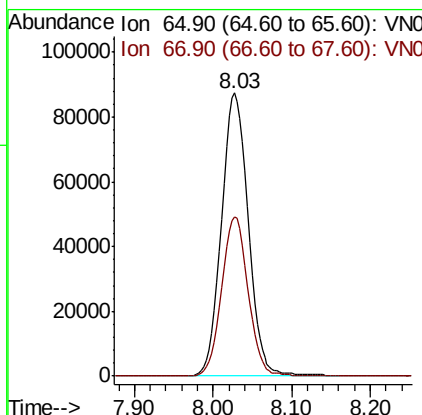
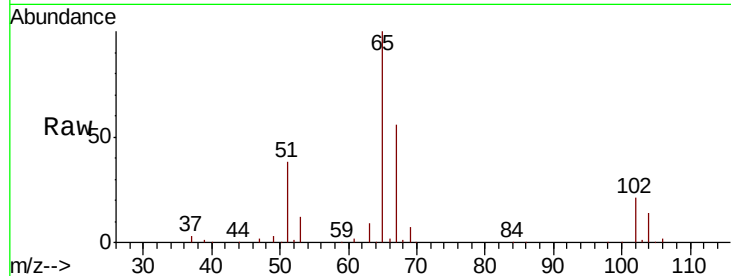




#33
 1,2-Dichloroethane-d4
 Concen: 51.643 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056508.D
 Acq: 26 Jun 2019 15:58

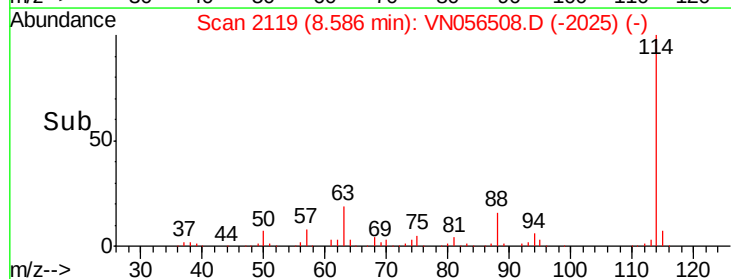
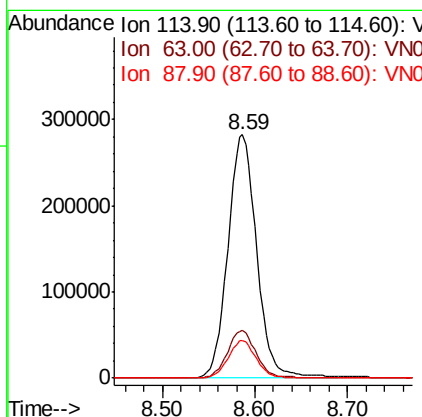
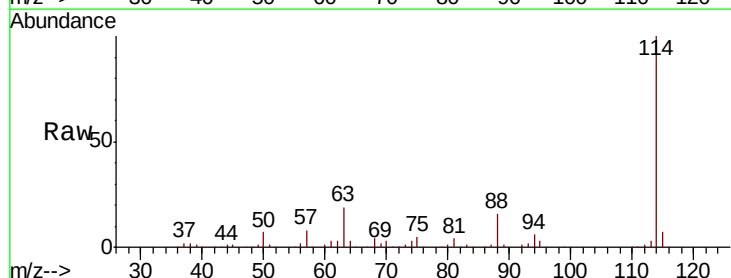
Instrument :
 MSVOA_N
 ClientSampled :

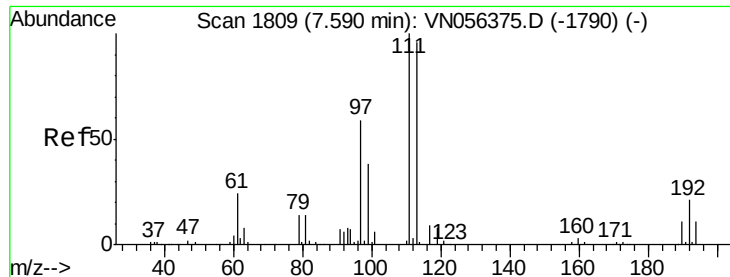
Tot Ion: 65 Resp: 205637
 Ion Ratio Lower Upper
 65 100
 67 55.4 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056508.D
 Acq: 26 Jun 2019 15:58

Tgt Ion: 114 Resp: 608761
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 39.2
 88 15.6 0.0 31.4

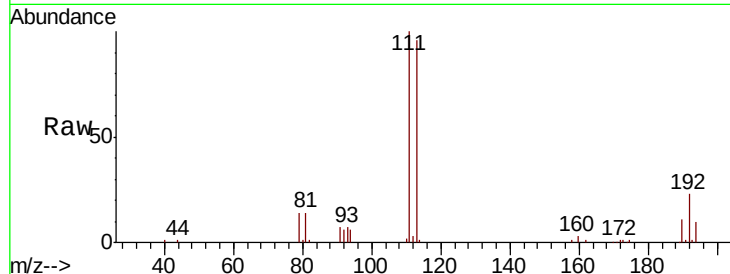




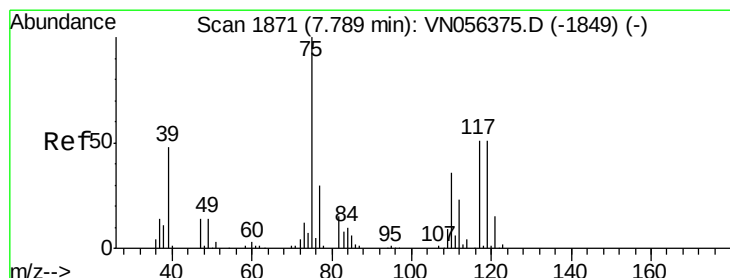
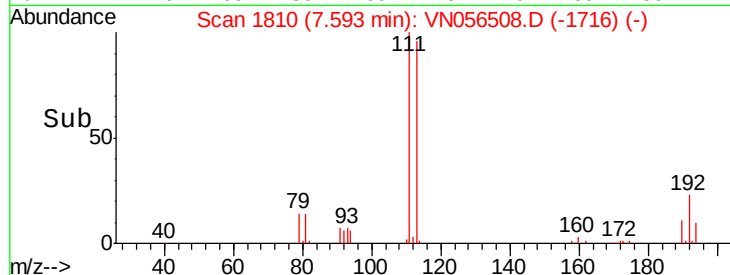
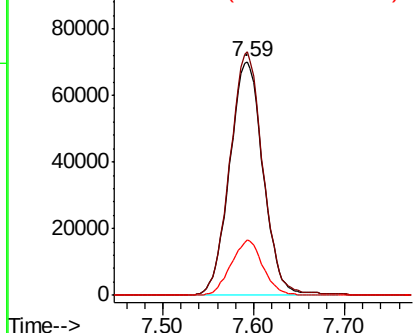
#35
 Dibromofluoromethane
 Concen: 47.159 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN056508.D
 Acq: 26 Jun 2019 15:58

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 179093
 Ion Ratio Lower Upper
 113 100
 111 102.1 82.9 124.3
 192 22.6 17.7 26.5

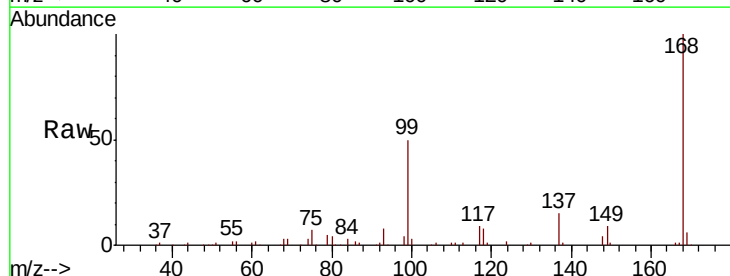


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

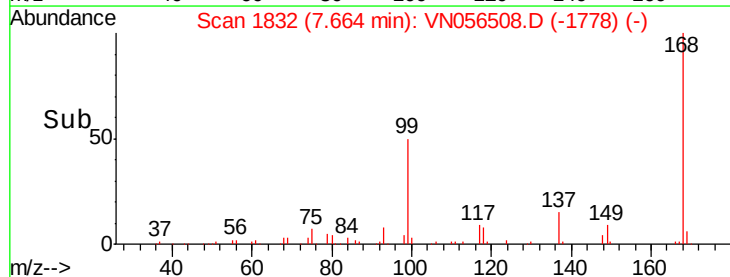
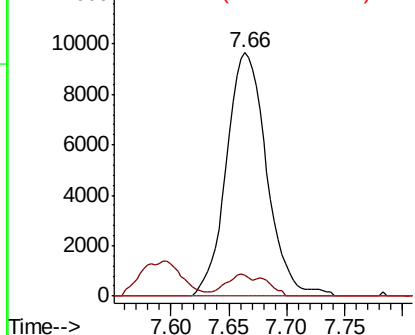


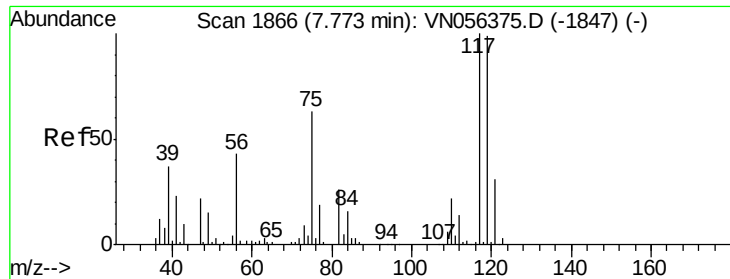
#36
 1,1-Dichloropropene
 Concen: 4.334 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056508.D
 Acq: 26 Jun 2019 15:58

Tgt Ion: 75 Resp: 23222
 Ion Ratio Lower Upper
 75 100
 110 4.0 18.1 54.3#
 77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 6.721 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056508.D

Acq: 26 Jun 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :

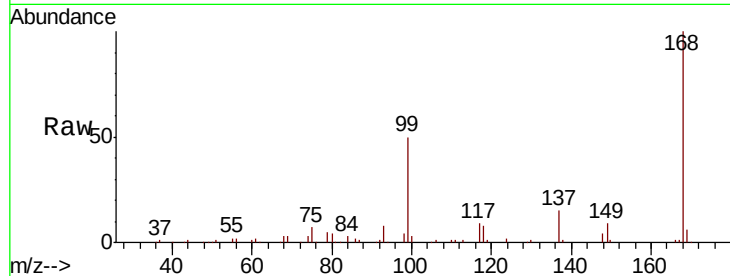
Tot Ion:117 Resp: 31492

Ion Ratio Lower Upper

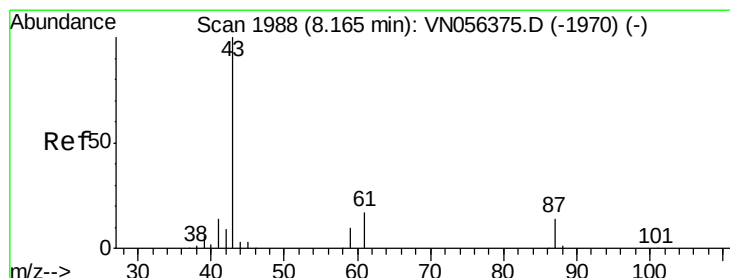
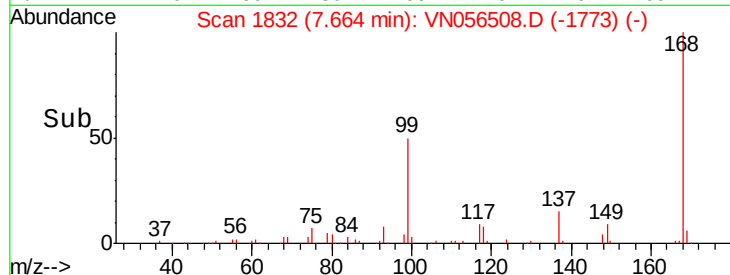
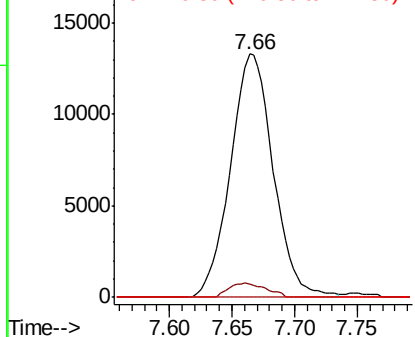
117 100

119 5.6 79.1 118.7#

121 0.0 24.8 37.2#



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



#43

Isopropyl Acetate

Concen: 1.896 ug/l

RT: 8.25 min Scan# 2014

Delta R.T. 0.08 min

Lab File: VN056508.D

Acq: 26 Jun 2019 15:58

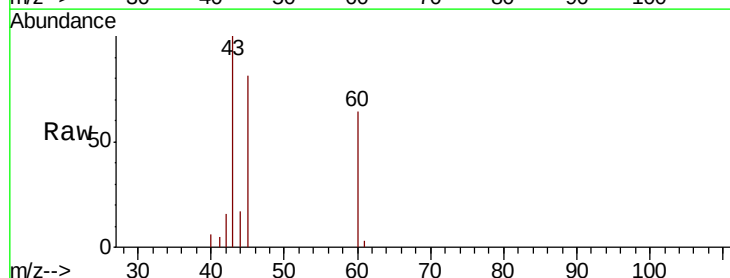
Tgt Ion: 43 Resp: 15393

Ion Ratio Lower Upper

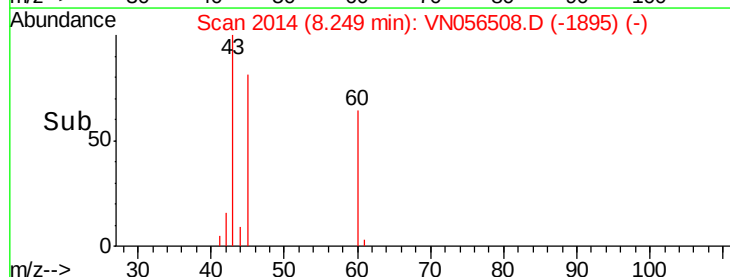
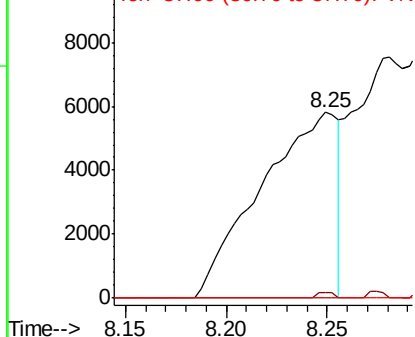
43 100

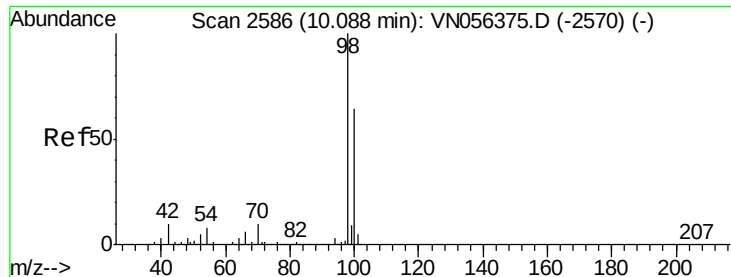
61 0.0 22.0 33.0#

87 0.0 11.0 16.4#



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

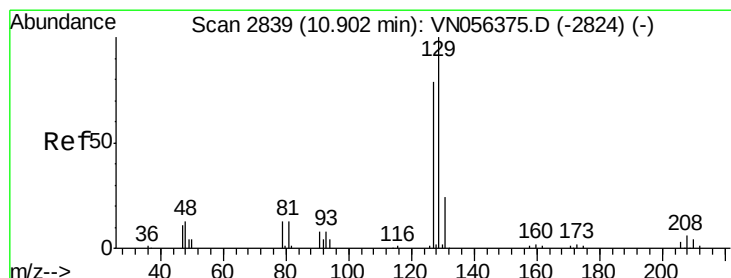
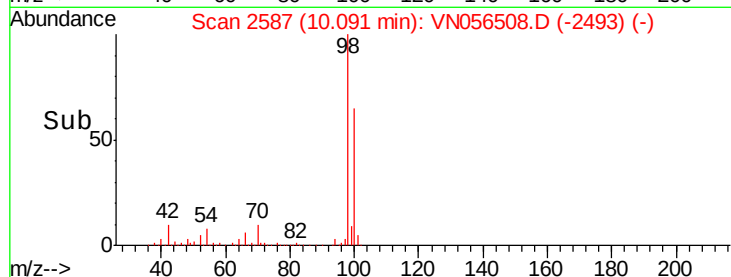
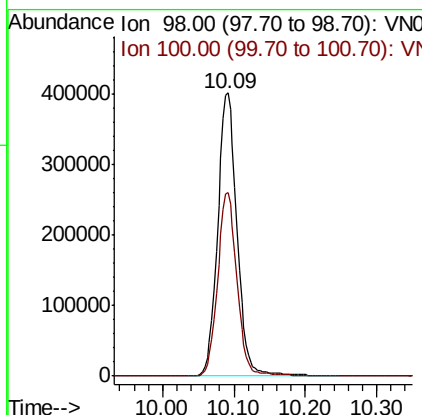
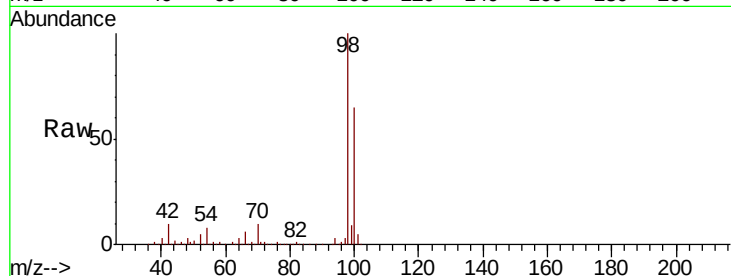




#50
Toluene-d8
Concen: 50.954 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN056508.D
Acq: 26 Jun 2019 15:58

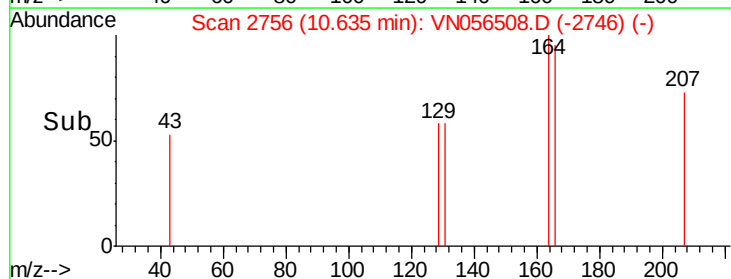
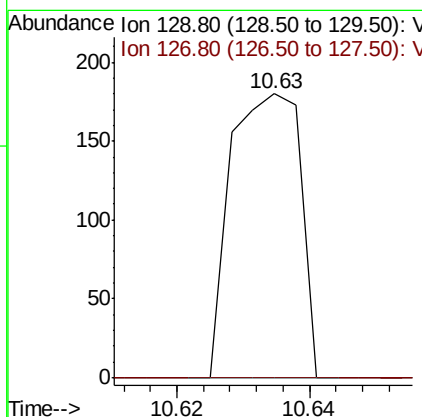
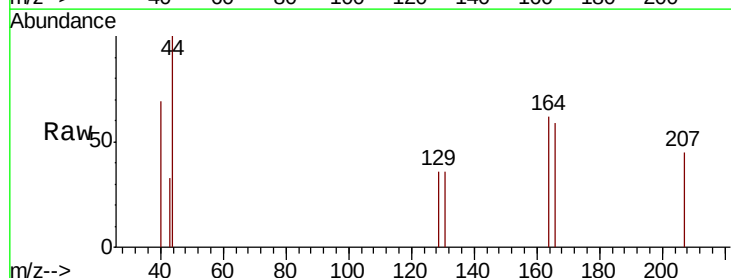
Instrument :
MSVOA_N
ClientSampled :

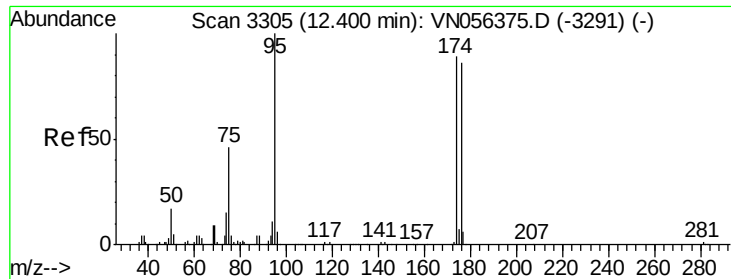
Tot Ion: 98 Resp: 752948
Ion Ratio Lower Upper
98 100
100 64.8 52.2 78.2



#60
Dibromochloromethane
Concen: 2.412 ug/l
RT: 10.63 min Scan# 2756
Delta R.T. -0.27 min
Lab File: VN056508.D
Acq: 26 Jun 2019 15:58

Tgt Ion: 129 Resp: 131
Ion Ratio Lower Upper
129 100
127 0.0 38.9 116.7#

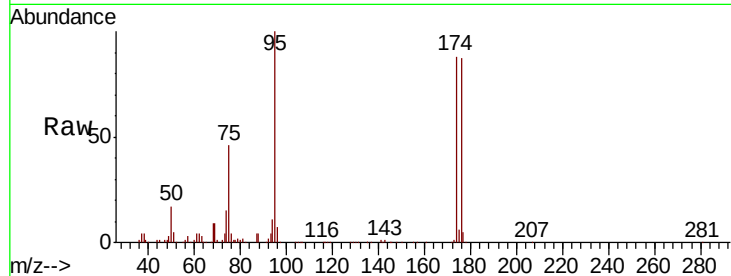




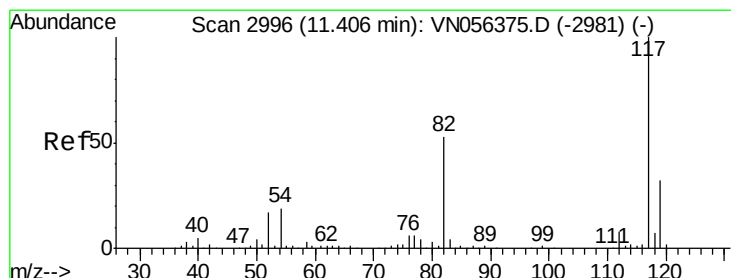
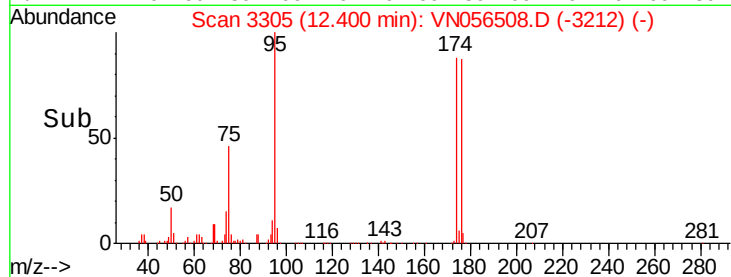
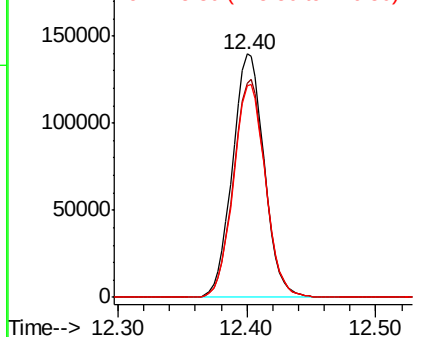
#62
4-Bromofluorobenzene
Concen: 48.483 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056508.D
Acq: 26 Jun 2019 15:58

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 95 Resp: 238829
Ion Ratio Lower Upper
95 100
174 89.8 0.0 179.4
176 88.2 0.0 173.4

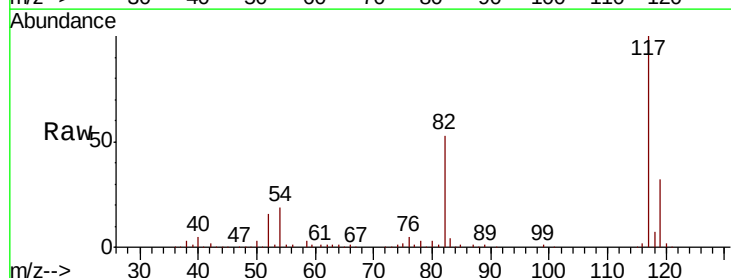


Abundance Ion 94.90 (94.60 to 95.60): VN056375.D (-3291) (-)
Ion 173.80 (173.50 to 174.50): VN056375.D (-3291) (-)
Ion 175.80 (175.50 to 176.50): VN056375.D (-3291) (-)

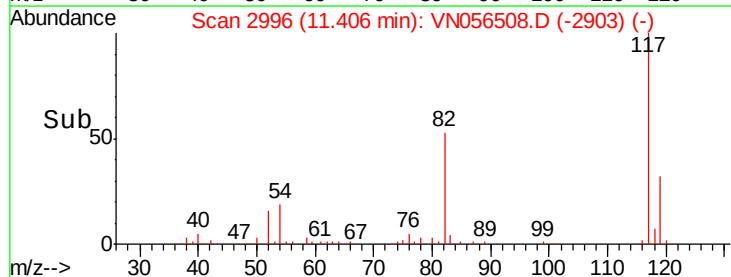
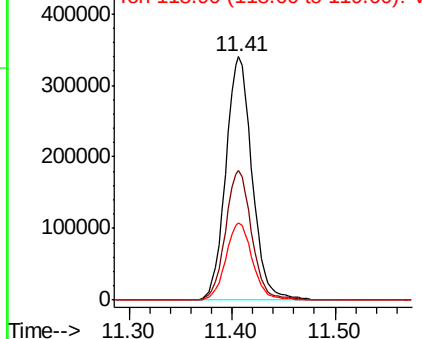


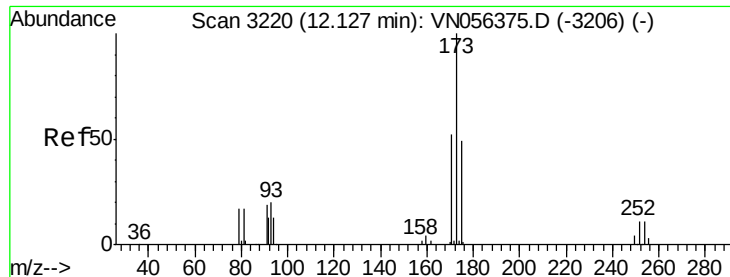
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056508.D
Acq: 26 Jun 2019 15:58

Tgt Ion: 117 Resp: 604413
Ion Ratio Lower Upper
117 100
82 53.0 42.0 63.0
119 31.8 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN056375.D (-2981) (-)
Ion 82.00 (81.70 to 82.70): VN056375.D (-2981) (-)
Ion 118.90 (118.60 to 119.60): VN056375.D (-2981) (-)





#71

Bromoform

Concen: 3.510 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056508.D

Acq: 26 Jun 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :

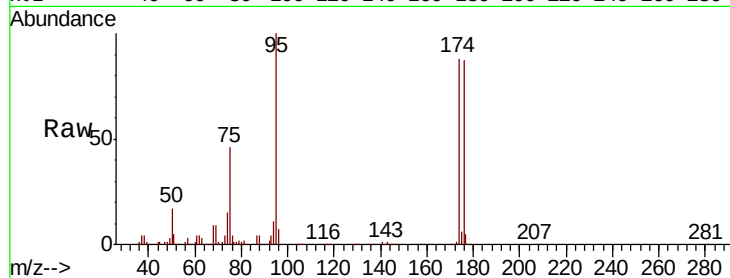
Tot Ion:173 Resp: 1299

Ion Ratio Lower Upper

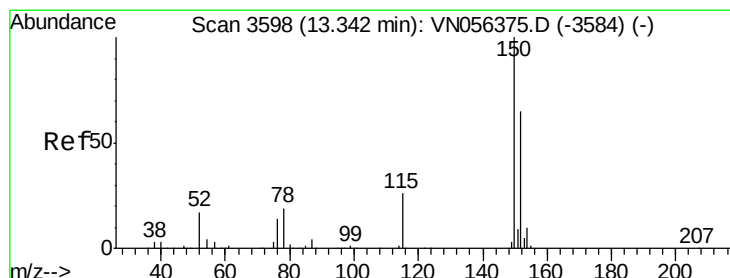
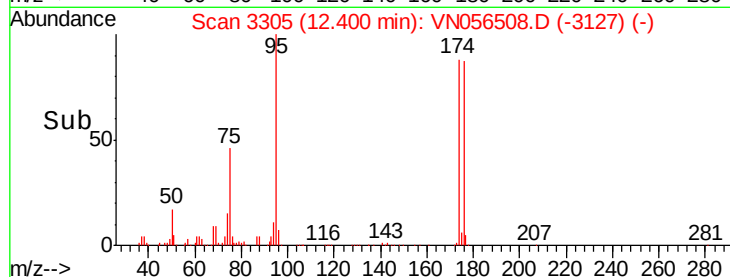
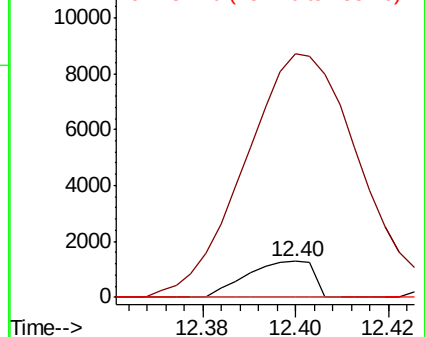
173 100

175 1002.0 24.4 73.4#

254 0.0 0.0 0.0



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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN056508.D

Acq: 26 Jun 2019 15:58

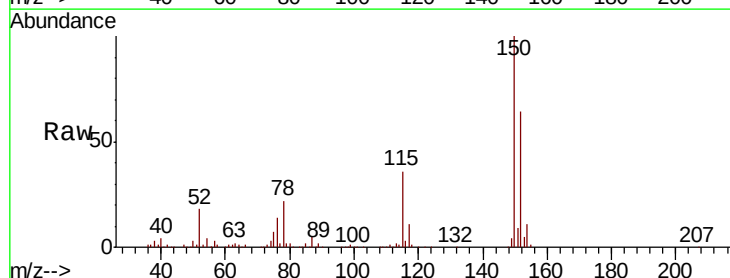
Tgt Ion:152 Resp: 168999

Ion Ratio Lower Upper

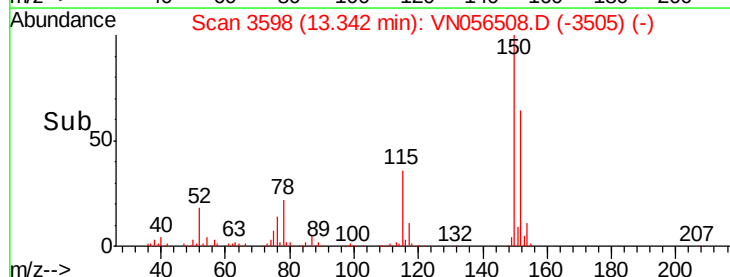
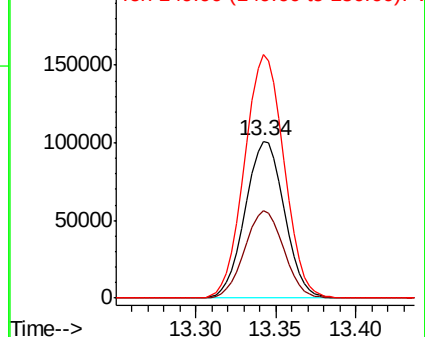
152 100

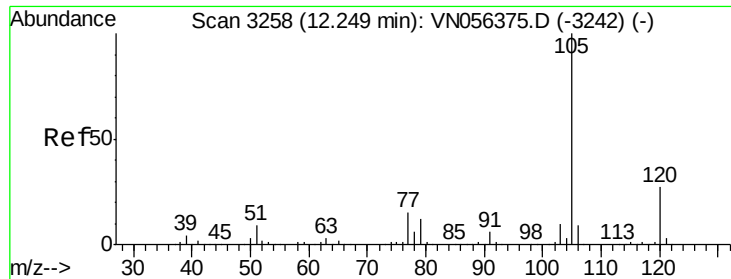
115 55.6 28.1 84.4

150 156.8 0.0 348.4



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





#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN056508.D

Acq: 26 Jun 2019 15:58

Instrument :

MSVOA_N

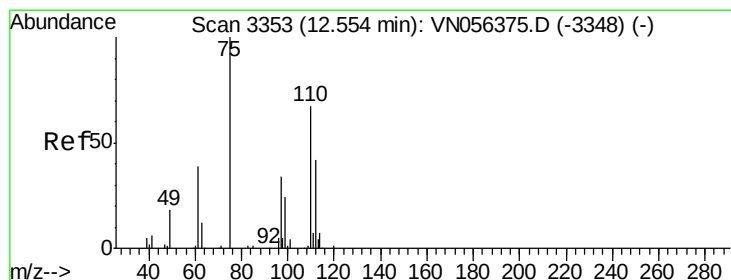
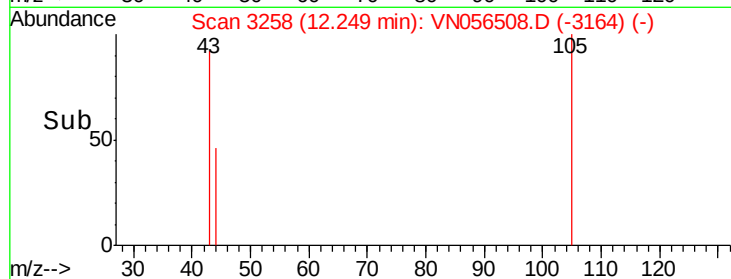
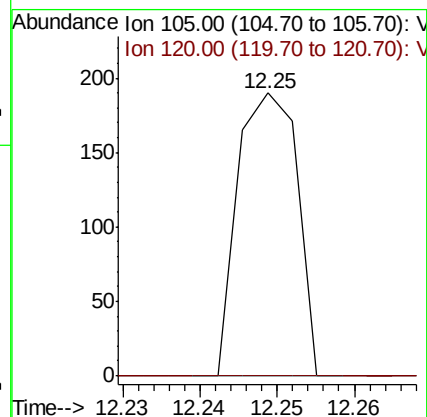
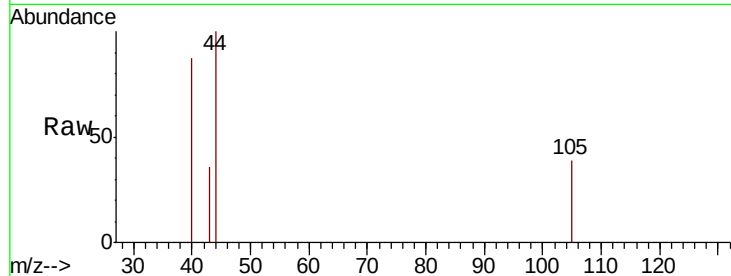
ClientSampleId :

Tot Ion:105 Resp: 102

Ion Ratio Lower Upper

105 100

120 0.0 13.4 40.2#



#76

1,2,3-Trichloropropane

Concen: 31.584 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN056508.D

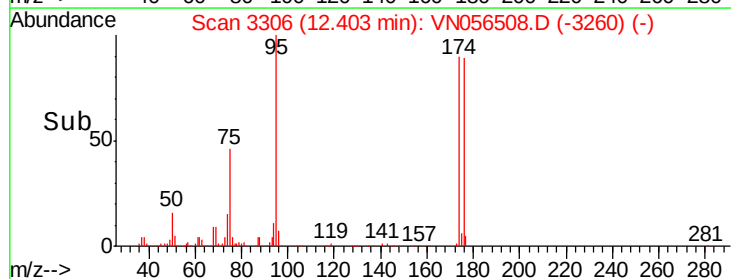
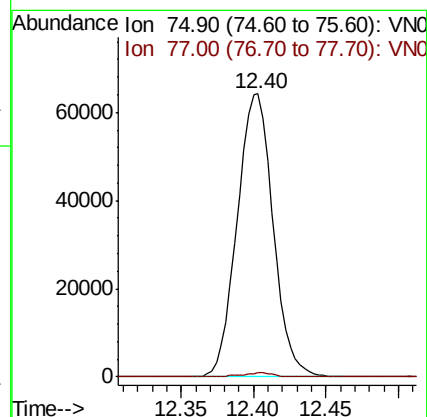
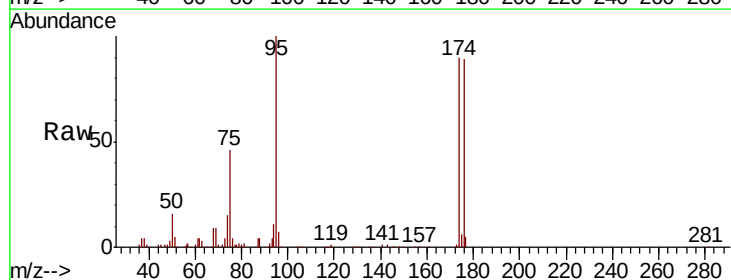
Acq: 26 Jun 2019 15:58

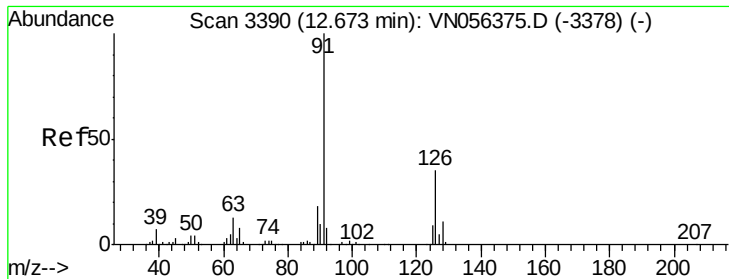
Tgt Ion: 75 Resp: 110679

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.59 min Scan# 3363

Delta R.T. -0.09 min

Lab File: VN056508.D

Acq: 26 Jun 2019 15:58

Instrument :

MSVOA_N

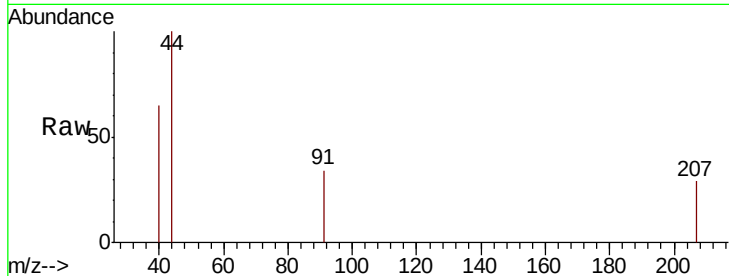
ClientSampleId :

Tot Ion: 91 Resp: 170

Ion Ratio Lower Upper

91 100

126 0.0 17.6 52.8#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.59

200

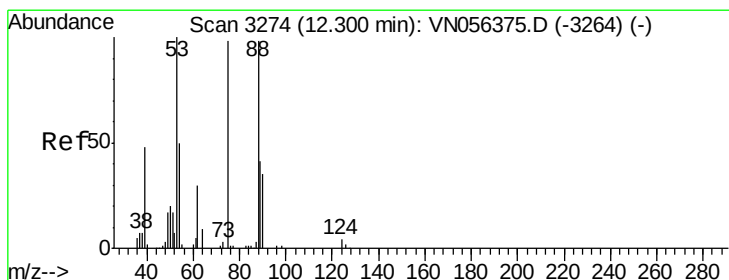
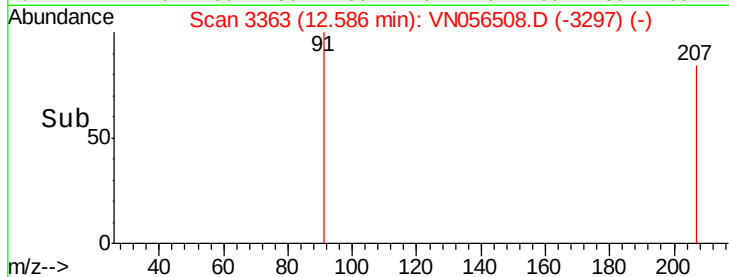
150

100

50

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 112.256 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN056508.D

Acq: 26 Jun 2019 15:58

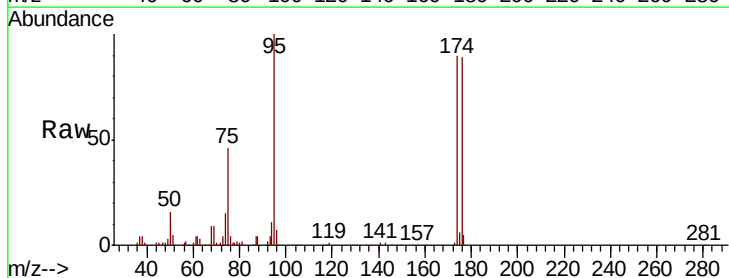
Tgt Ion: 75 Resp: 110679

Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

89 0.0 35.0 52.6#



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

80000

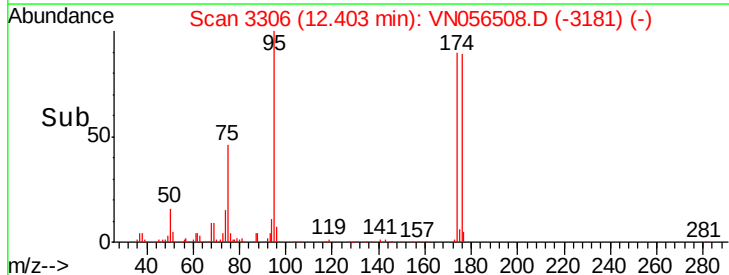
60000

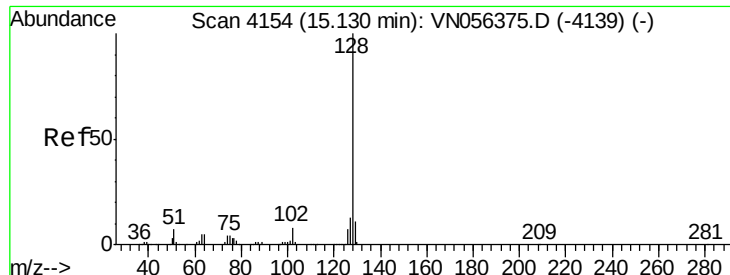
40000

20000

0

Time-->





#95

Naphthalene

Concen: 5.257 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

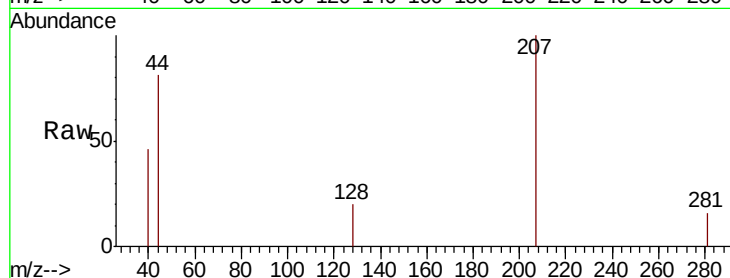
Lab File: VN056508.D

Acq: 26 Jun 2019 15:58

Instrument :

MSVOA_N

ClientSampleId :



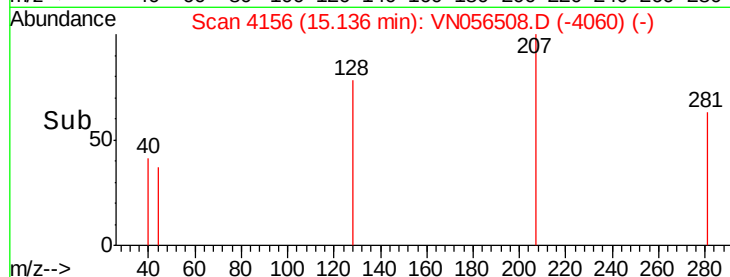
Tot Ion:128 Resp: 108

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 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

