

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092619\
 Data File : VN058374.D
 Acq On : 26 Sep 2019 10:55
 Operator : JC/SP
 Sample : VN0926WBL02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0926WBL02

Quant Time: Sep 27 02:32:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	472966	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	773488	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	659702	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	266402	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	352975	53.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.16%	
35) Dibromofluoromethane	7.57	113	243869	51.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.72%	
50) Toluene-d8	10.08	98	987007	53.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.74%	
62) 4-Bromofluorobenzene	12.41	95	315438	46.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.70%	

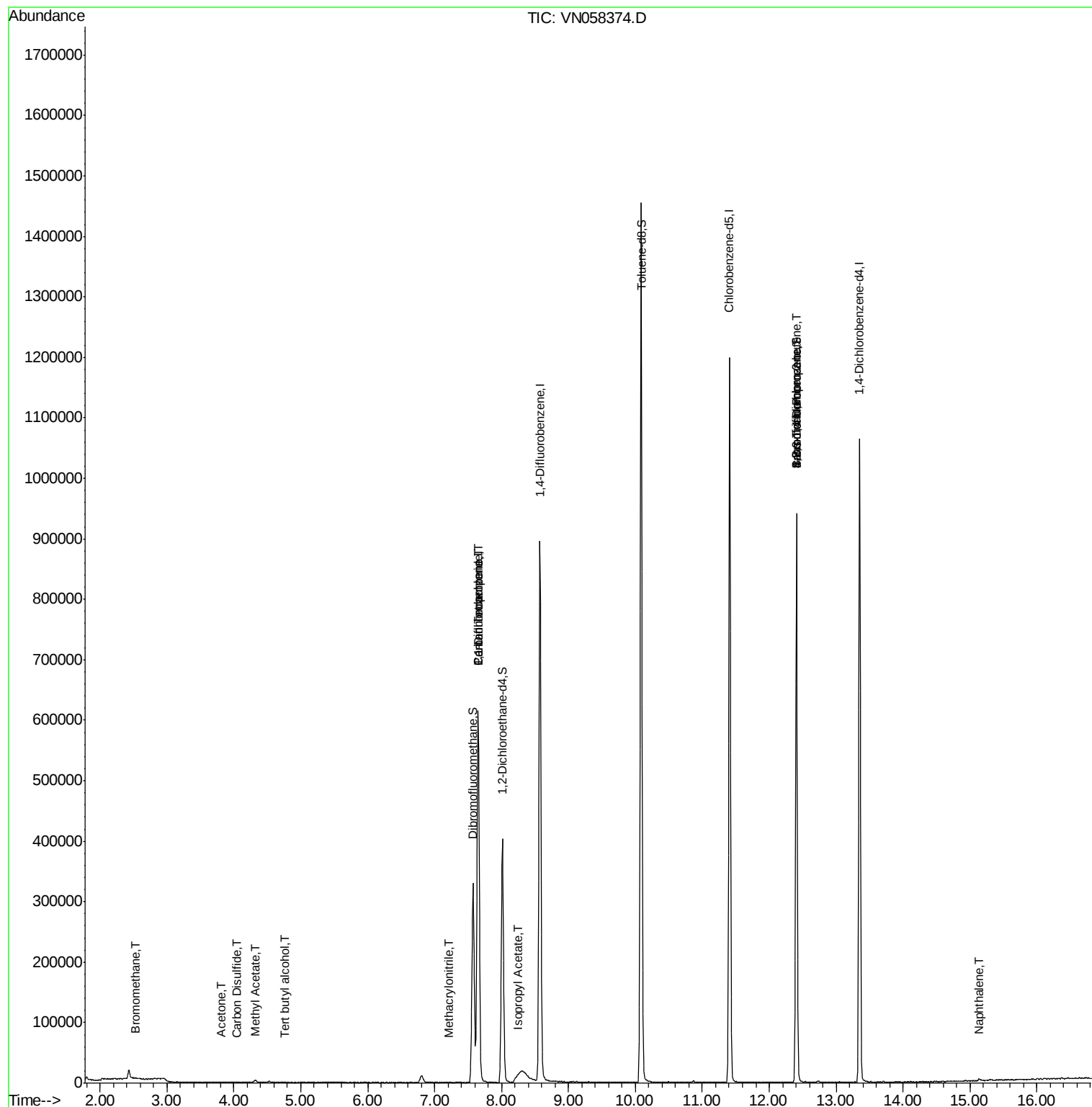
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	567	Below Cal	#	42
5) Bromomethane	2.54	94	74	0.765	ug/l #	4
6) Chloroethane	2.60	64	134	Below Cal	#	44
11) Tert butyl alcohol	4.75	59	203	0.259	ug/l #	71
12) 1,1-Dichloroethene	3.72	96	29	Below Cal	#	1
16) Acetone	3.81	43	1535	0.686	ug/l #	54
17) Carbon Disulfide	4.03	76	287	0.341	ug/l #	74
18) Methyl Acetate	4.31	43	6720	1.142	ug/l #	88
31) Cyclohexane	7.65	56	11825	Below Cal	#	13
36) 1,1-Dichloropropene	7.65	75	40139	7.196	ug/l #	52
38) Carbon Tetrachloride	7.65	117	47457	8.464	ug/l #	15
41) Methacrylonitrile	7.21	41	31	0.921	ug/l #	100
43) Isopropyl Acetate	8.24	43	11637	1.076	ug/l #	57
71) Bromoform	12.40	173	1832	4.140	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	173258	36.340	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	173258	101.433	ug/l #	5
95) Naphthalene	15.15	128	3184	0.250	ug/l #	79

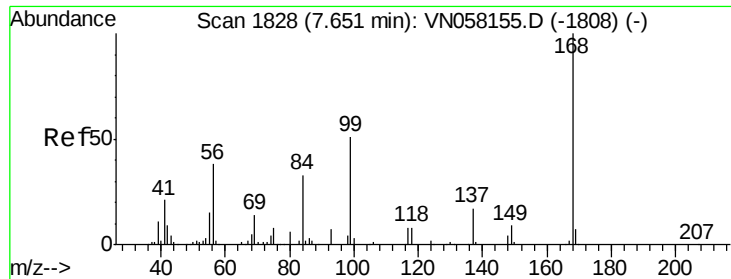
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058374.D

Acq: 26 Sep 2019 10:55

Instrument :

MSVOA_N

ClientSampleId :

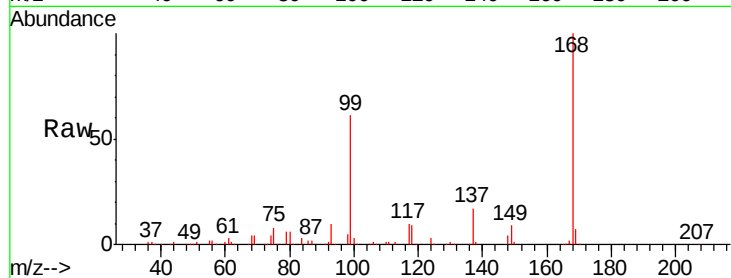
VN0926WBL02

Tgt Ion:168 Resp: 472966

Ion Ratio Lower Upper

168 100

99 60.5 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

200000

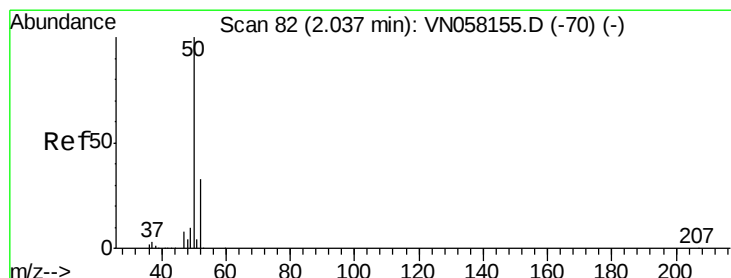
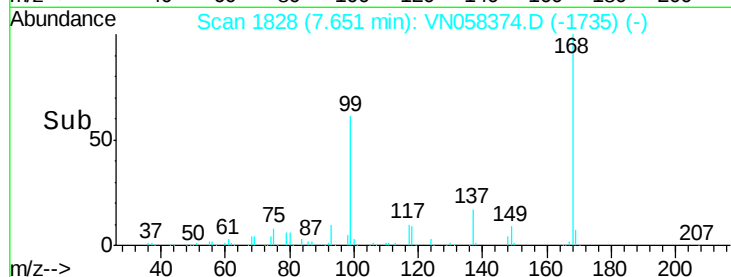
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058374.D

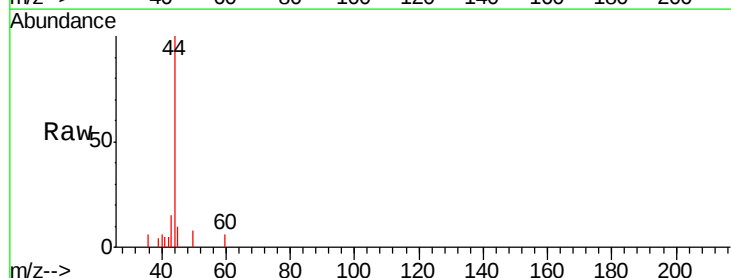
Acq: 26 Sep 2019 10:55

Tgt Ion: 50 Resp: 567

Ion Ratio Lower Upper

50 100

52 0.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.04

400

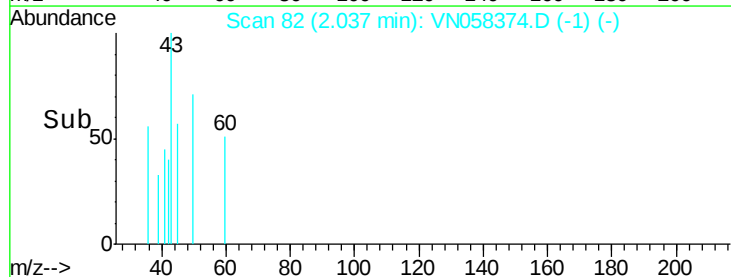
300

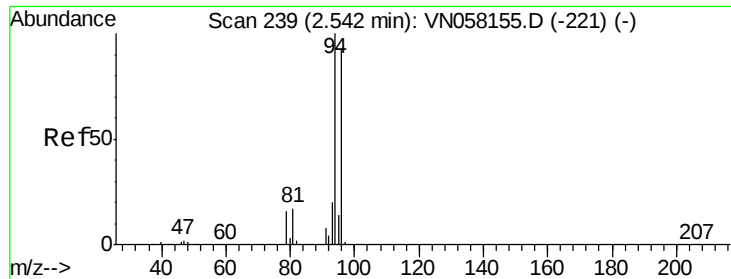
200

100

0

Time-->





#5

Bromomethane

Concen: 0.765 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.00 min

Lab File: VN058374.D

Acq: 26 Sep 2019 10:55

Instrument :

MSVOA_N

ClientSampleId :

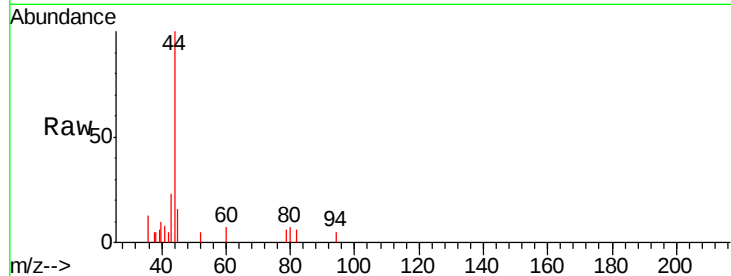
VN0926WBL02

Tgt Ion: 94 Resp: 74

Ion Ratio Lower Upper

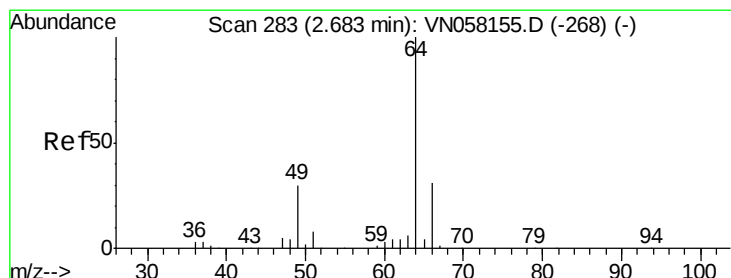
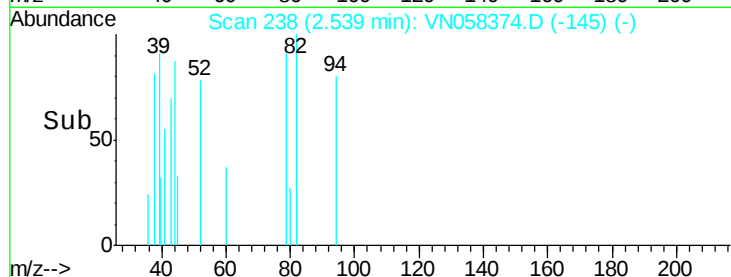
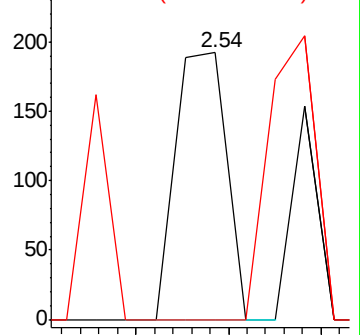
94 100

96 0.0 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.60 min Scan# 257

Delta R.T. -0.08 min

Lab File: VN058374.D

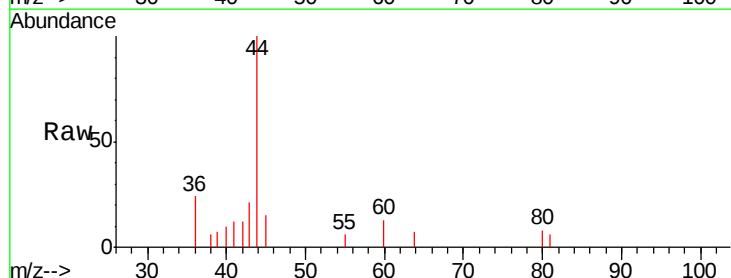
Acq: 26 Sep 2019 10:55

Tgt Ion: 64 Resp: 134

Ion Ratio Lower Upper

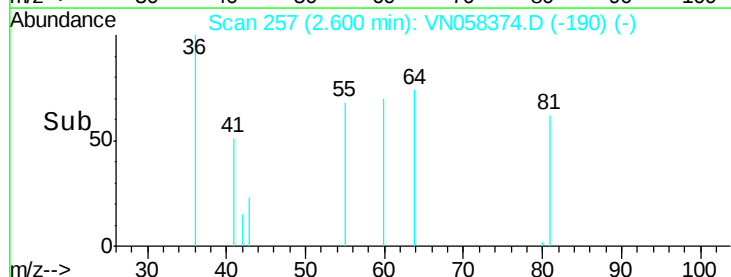
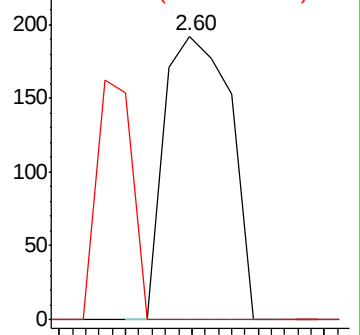
64 100

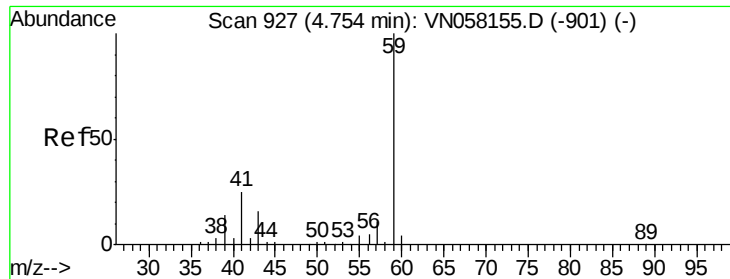
66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

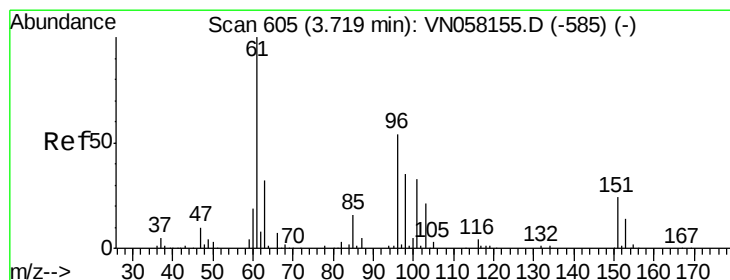
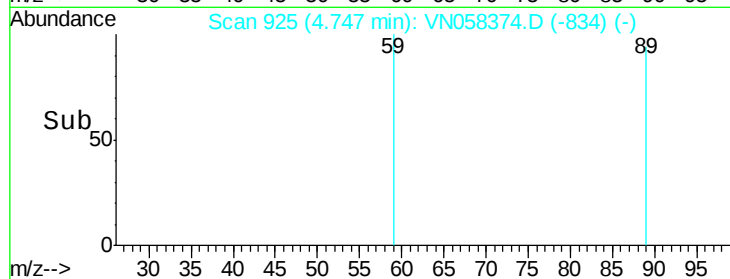
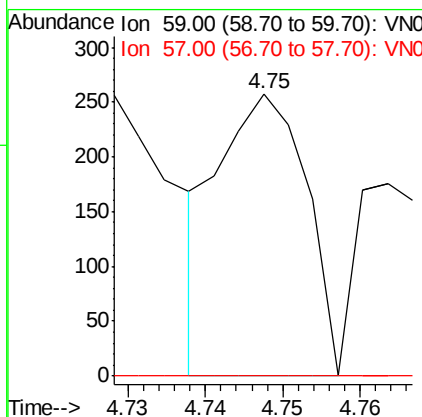
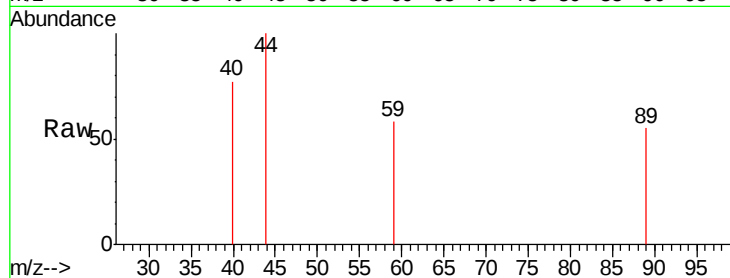




#11
Tert butyl alcohol
Concen: 0.259 ug/l
RT: 4.75 min Scan# 925
Delta R.T. -0.01 min
Lab File: VN058374.D
Acq: 26 Sep 2019 10:55

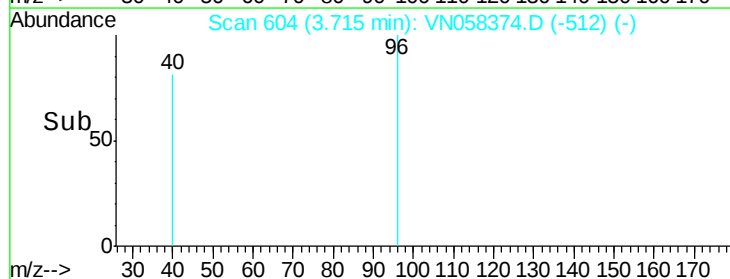
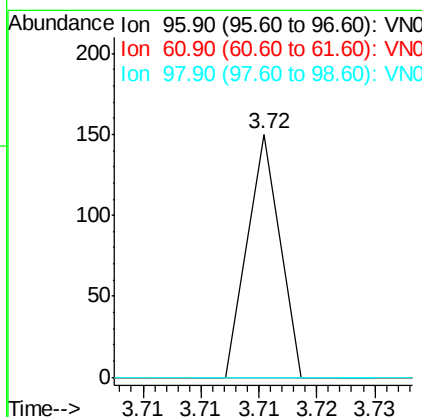
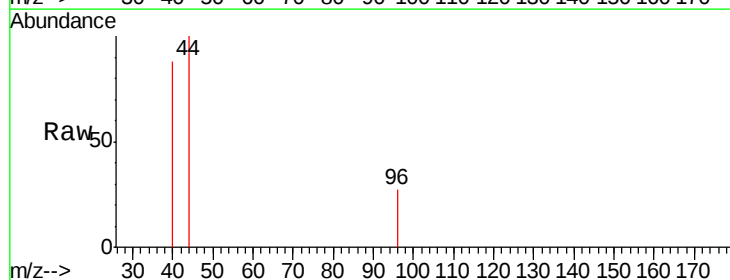
Instrument :
MSVOA_N
ClientSampleId :
VN0926WBL02

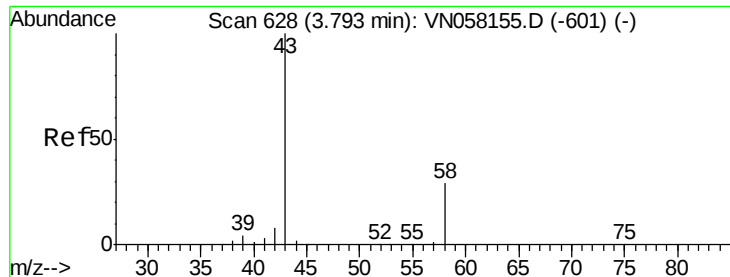
Tgt Ion: 59 Resp: 203
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#



#12
1,1-Dichloroethene
Concen: Below Cal
RT: 3.72 min Scan# 604
Delta R.T. -0.00 min
Lab File: VN058374.D
Acq: 26 Sep 2019 10:55

Tgt Ion: 96 Resp: 29
Ion Ratio Lower Upper
96 100
61 0.0 149.5 224.3#
98 0.0 52.4 78.6#





#16

Acetone

Concen: 0.686 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.02 min

Lab File: VN058374.D

Acq: 26 Sep 2019 10:55

Instrument :

MSVOA_N

ClientSampled :

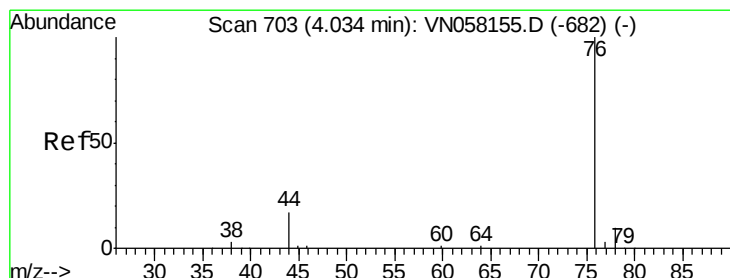
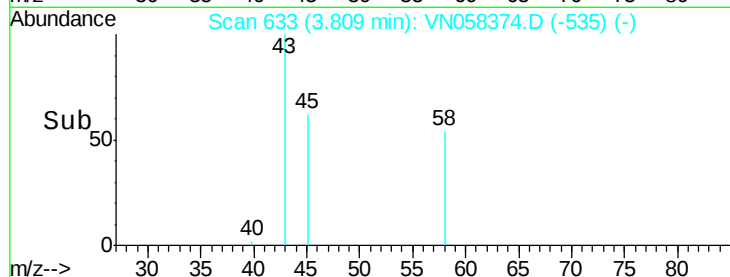
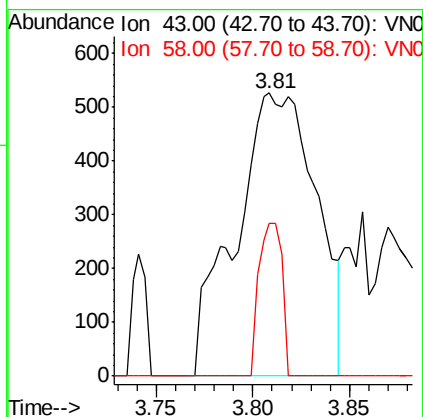
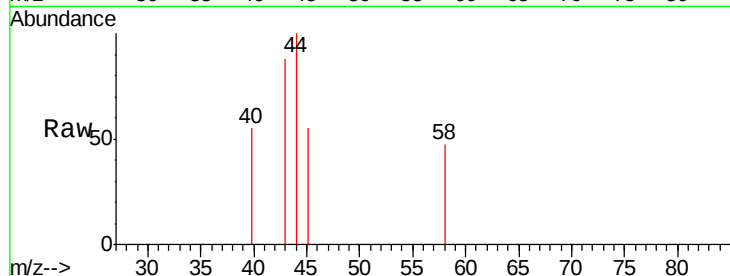
VN0926WBL02

Tgt Ion: 43 Resp: 1535

Ion Ratio Lower Upper

43 100

58 54.1 23.4 35.2#



#17

Carbon Disulfide

Concen: 0.341 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.01 min

Lab File: VN058374.D

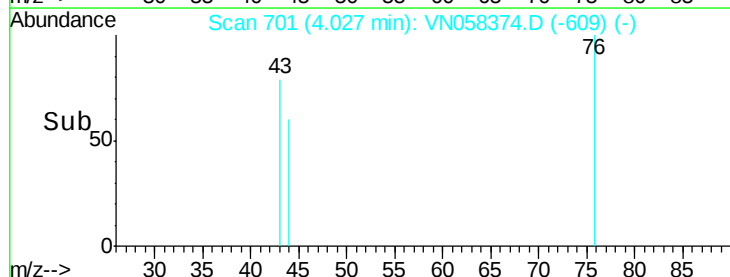
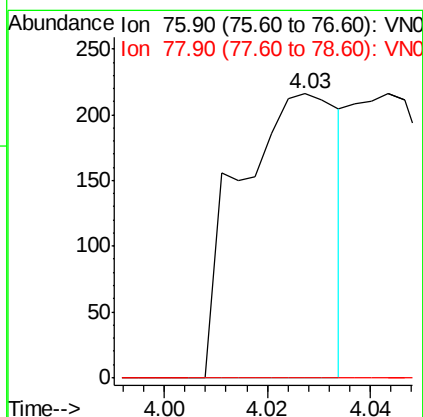
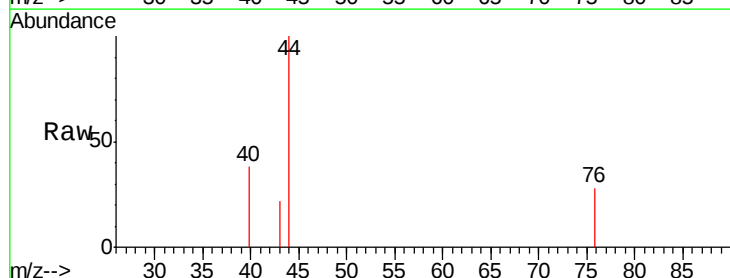
Acq: 26 Sep 2019 10:55

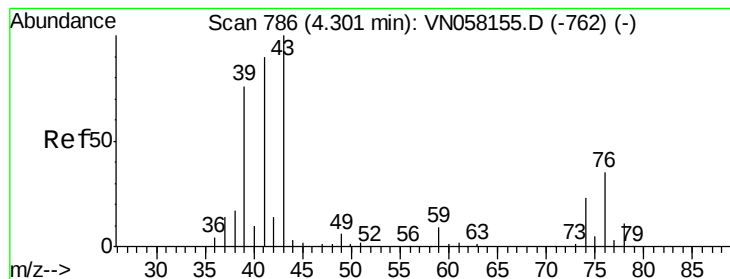
Tgt Ion: 76 Resp: 287

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#





#18

Methyl Acetate

Concen: 1.142 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN058374.D

Acq: 26 Sep 2019 10:55

Instrument :

MSVOA_N

ClientSampleId :

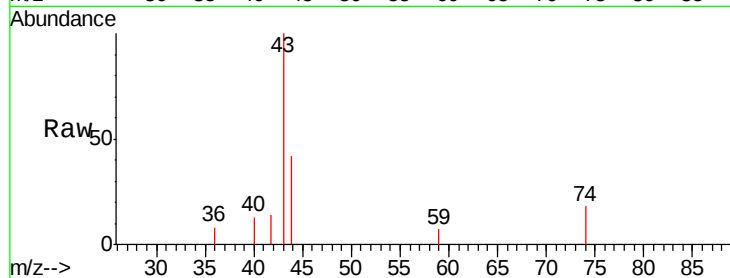
VN0926WBL02

Tgt Ion: 43 Resp: 6720

Ion Ratio Lower Upper

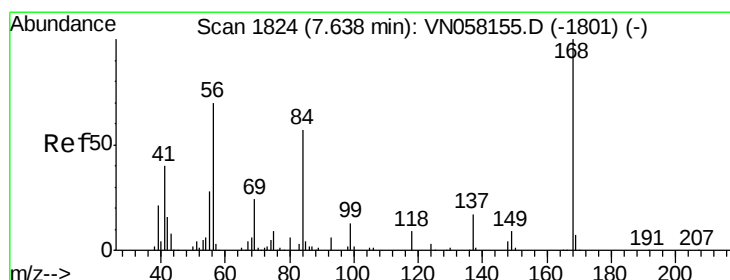
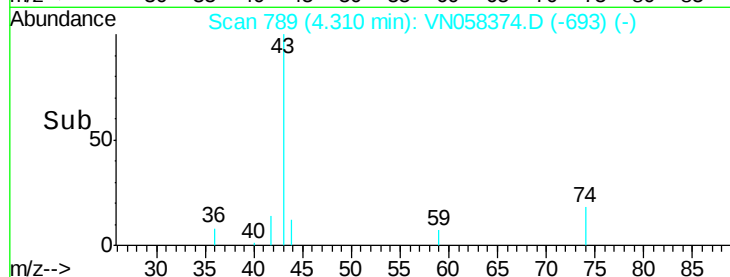
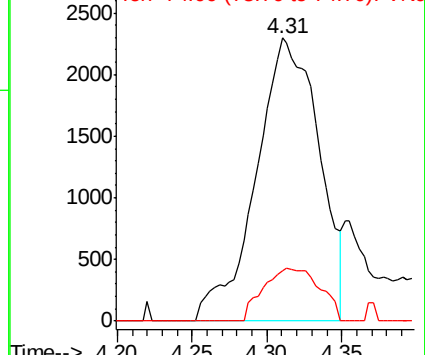
43 100

74 16.8 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058374.D

Acq: 26 Sep 2019 10:55

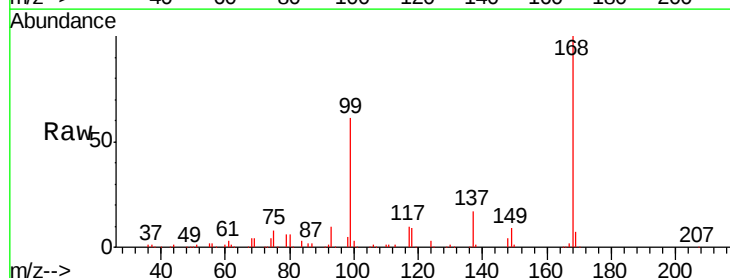
Tgt Ion: 56 Resp: 11825

Ion Ratio Lower Upper

56 100

69 165.4 27.3 40.9#

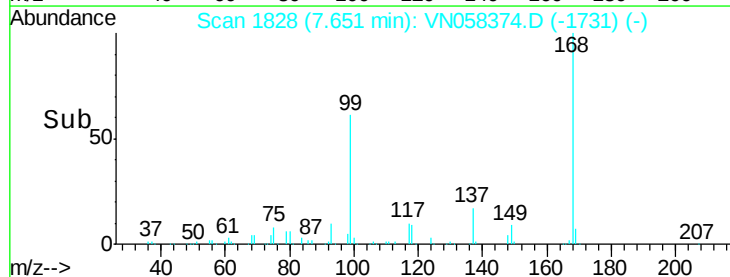
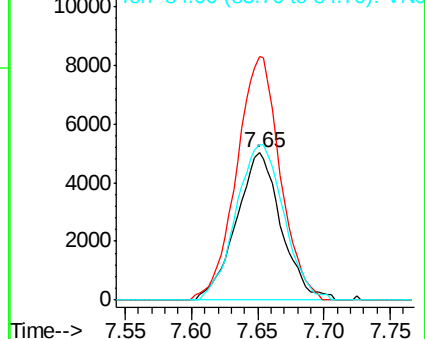
84 105.9 65.0 97.4#

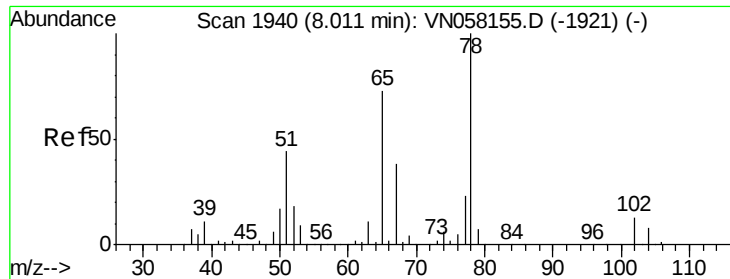


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 53.583 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058374.D

Acq: 26 Sep 2019 10:55

Instrument :

MSVOA_N

ClientSampleId :

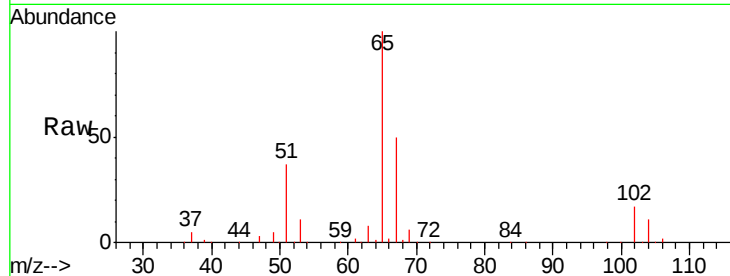
VN0926WBL02

Tgt Ion: 65 Resp: 352975

Ion Ratio Lower Upper

65 100

67 50.6 0.0 103.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.01

150000

100000

50000

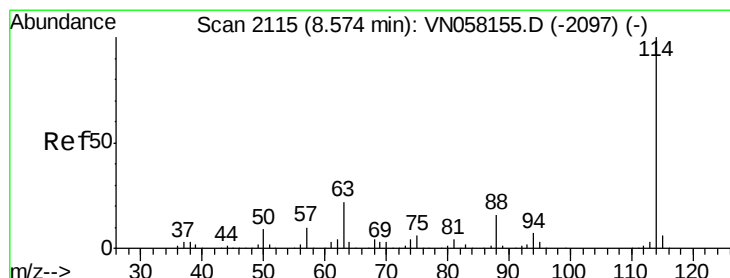
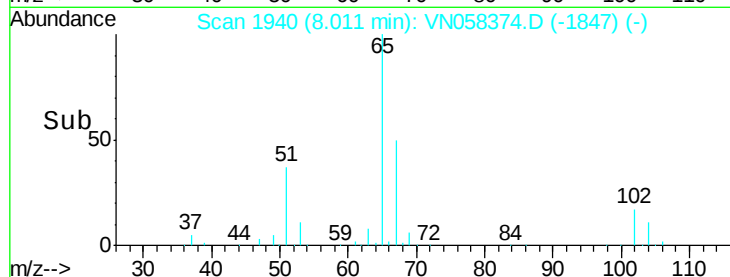
0

Time-->

7.90

8.00

8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2115

Delta R.T. -0.00 min

Lab File: VN058374.D

Acq: 26 Sep 2019 10:55

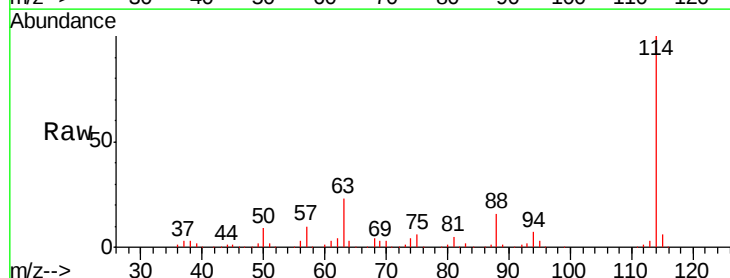
Tgt Ion: 114 Resp: 773488

Ion Ratio Lower Upper

114 100

63 23.3 0.0 44.2

88 15.6 0.0 31.6



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

8.57

500000

400000

300000

200000

100000

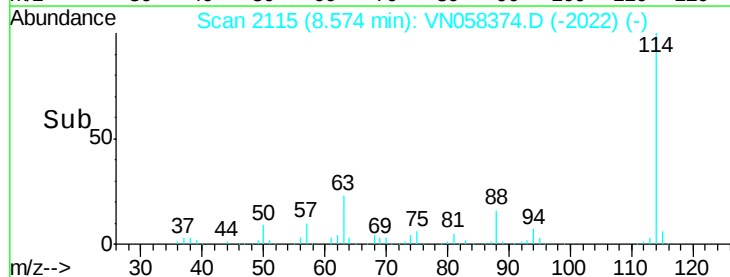
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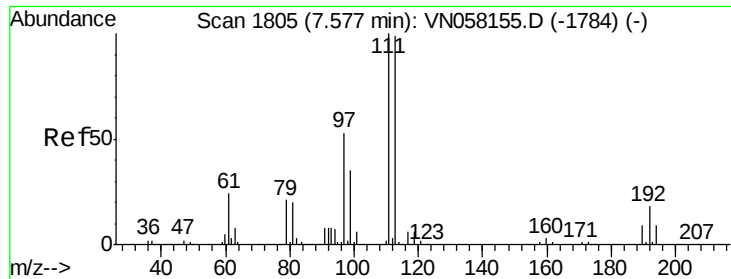
Time-->

8.50

8.60

8.70

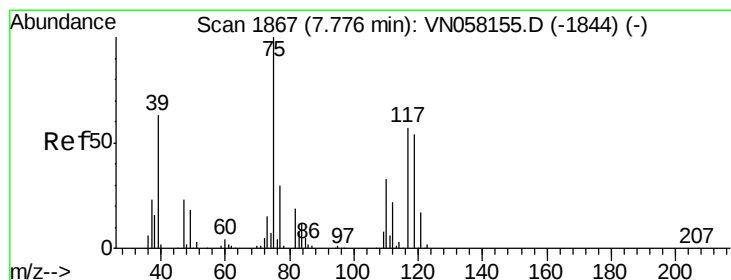
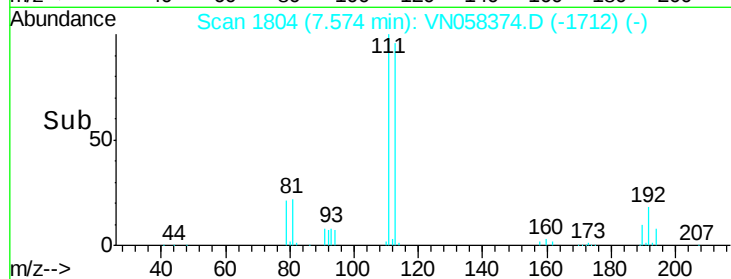
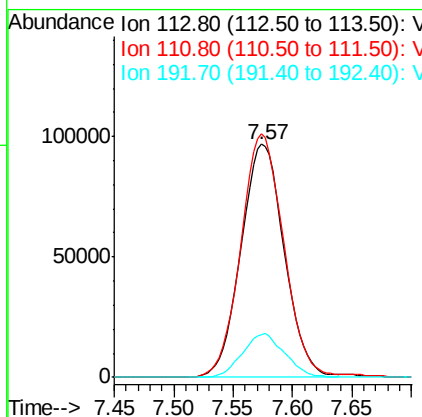
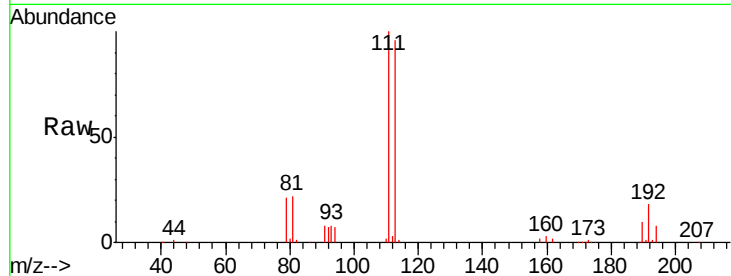




#35
 Dibromofluoromethane
 Concen: 51.863 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058374.D
 Acq: 26 Sep 2019 10:55

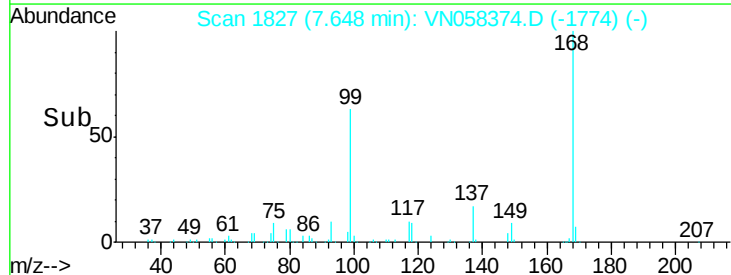
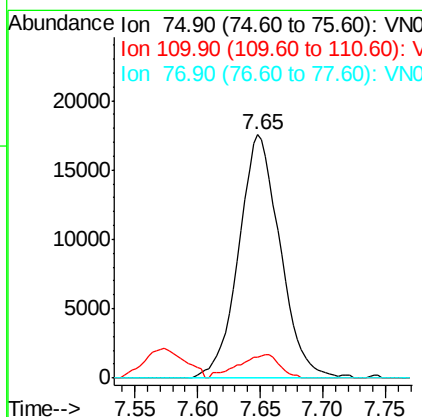
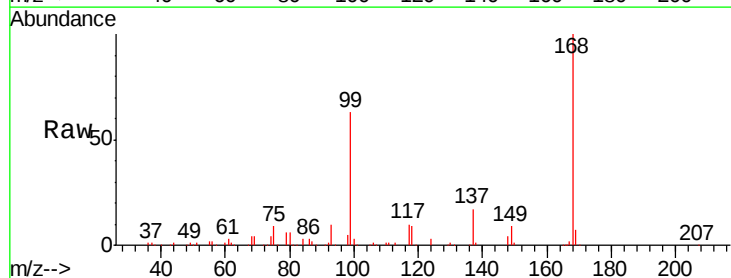
Instrument :
 MSVOA_N
 ClientSampled :
 VN0926WBL02

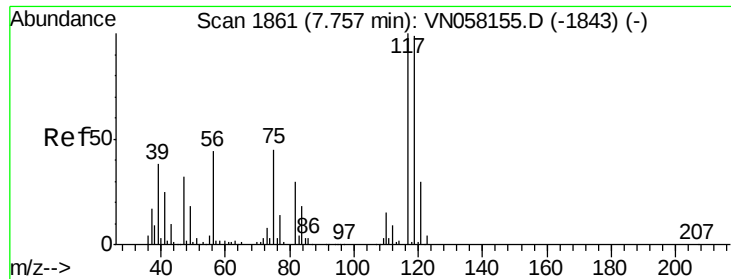
Tgt Ion: 113 Resp: 243869
 Ion Ratio Lower Upper
 113 100
 111 103.3 81.8 122.6
 192 18.4 14.5 21.7



#36
 1,1-Dichloropropene
 Concen: 7.196 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058374.D
 Acq: 26 Sep 2019 10:55

Tgt Ion: 75 Resp: 40139
 Ion Ratio Lower Upper
 75 100
 110 9.6 16.6 49.7#
 77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 8.464 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058374.D

Acq: 26 Sep 2019 10:55

Instrument :

MSVOA_N

ClientSampled :

VN0926WBL02

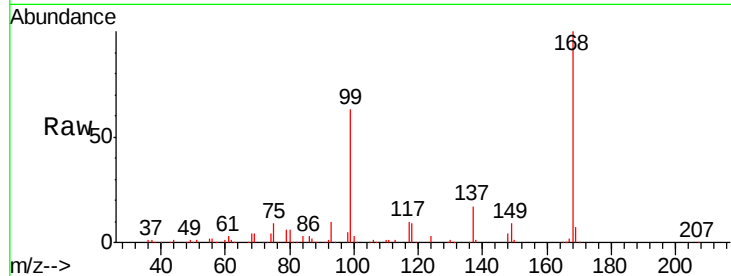
Tgt Ion: 117 Resp: 47457

Ion Ratio Lower Upper

117 100

119 4.6 78.6 117.8#

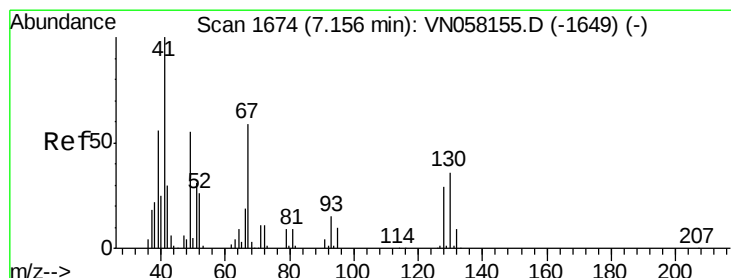
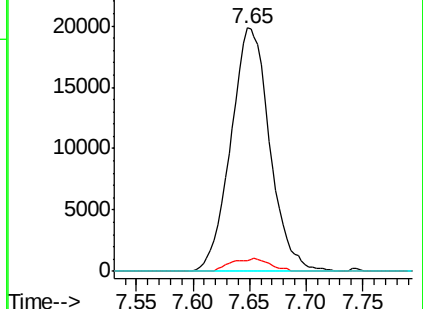
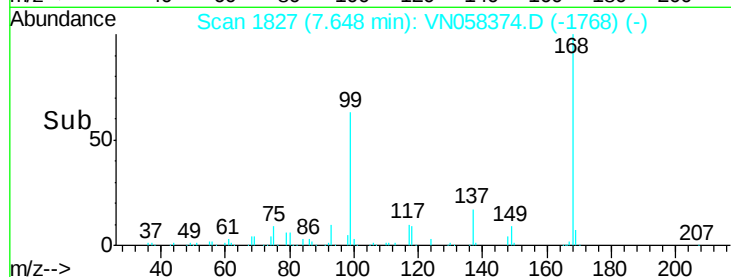
121 0.0 24.1 36.1#



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



#41

Methacrylonitrile

Concen: 0.921 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. 0.06 min

Lab File: VN058374.D

Acq: 26 Sep 2019 10:55

Tgt Ion: 41 Resp: 31

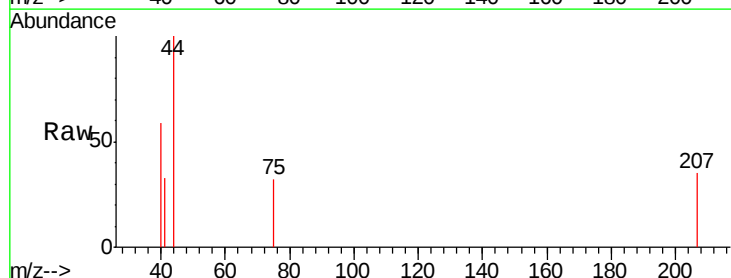
Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0

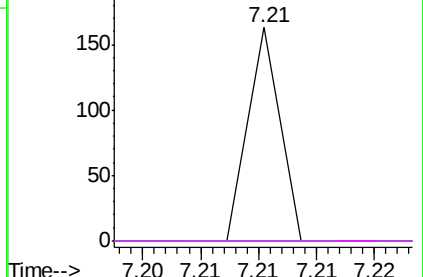
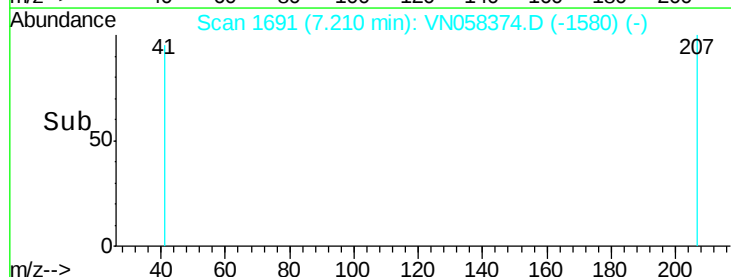


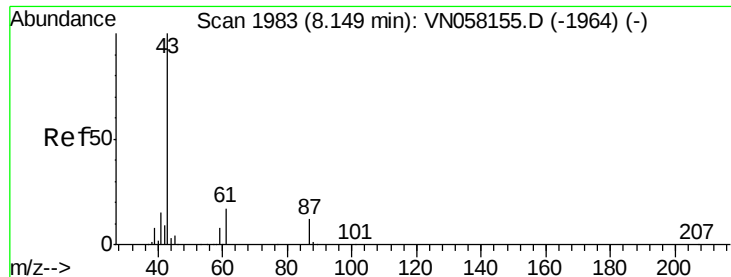
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 1.076 ug/l

RT: 8.24 min Scan# 2011

Delta R.T. 0.09 min

Lab File: VN058374.D

Acq: 26 Sep 2019 10:55

Instrument :

MSVOA_N

ClientSampleId :

VN0926WBL02

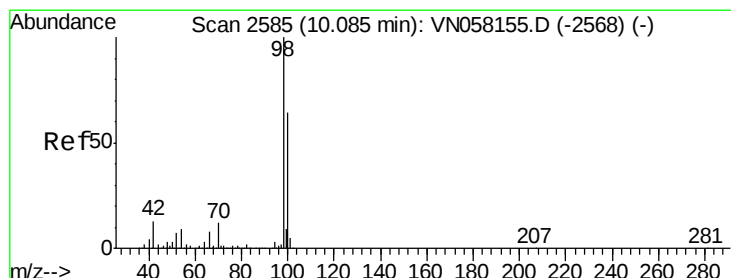
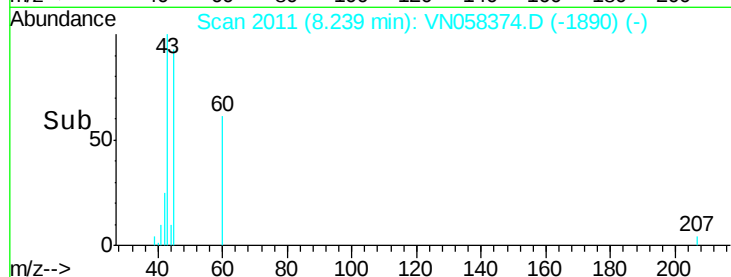
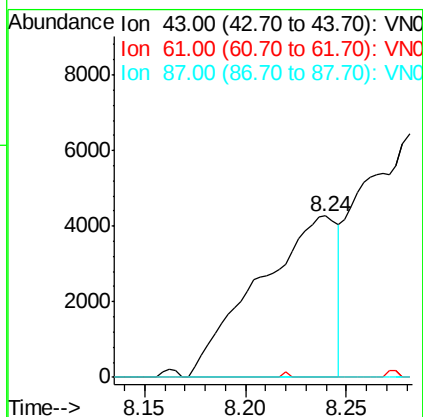
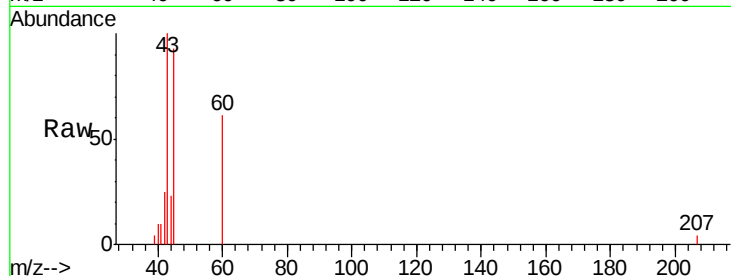
Tgt Ion: 43 Resp: 11637

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

87 0.0 9.4 14.2#



#50

Toluene-d8

Concen: 53.874 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058374.D

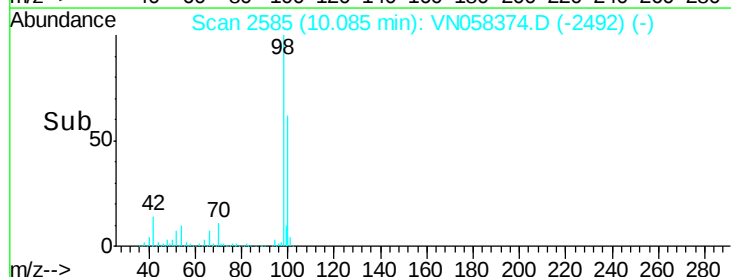
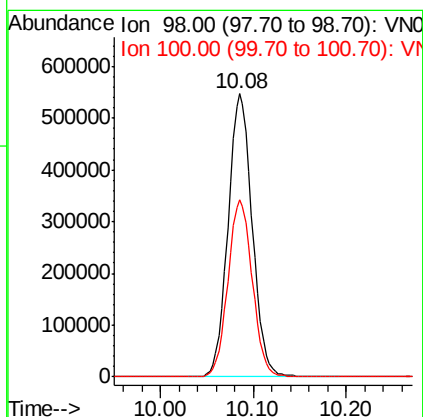
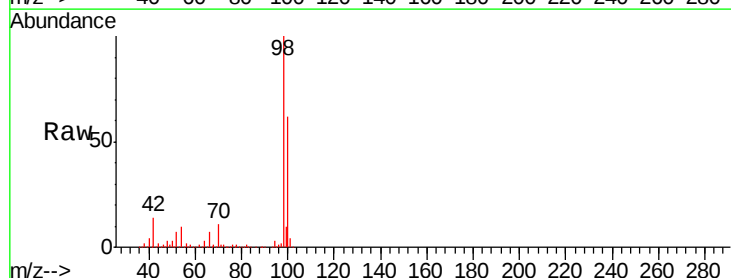
Acq: 26 Sep 2019 10:55

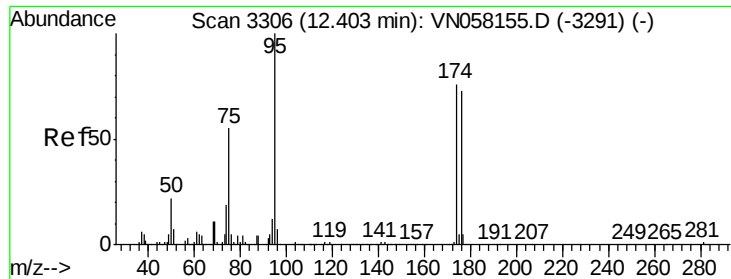
Tgt Ion: 98 Resp: 987007

Ion Ratio Lower Upper

98 100

100 63.1 51.1 76.7





#62

4-Bromofluorobenzene

Concen: 46.351 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058374.D

Acq: 26 Sep 2019 10:55

Instrument :

MSVOA_N

ClientSampleId :

VN0926WBL02

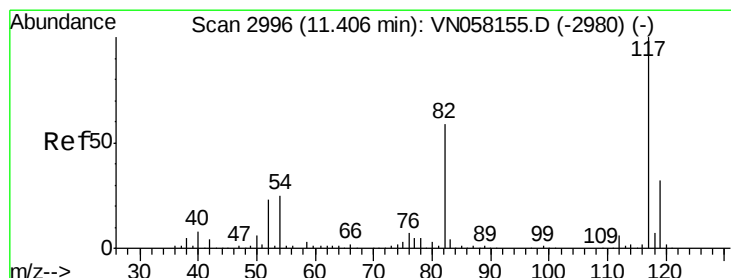
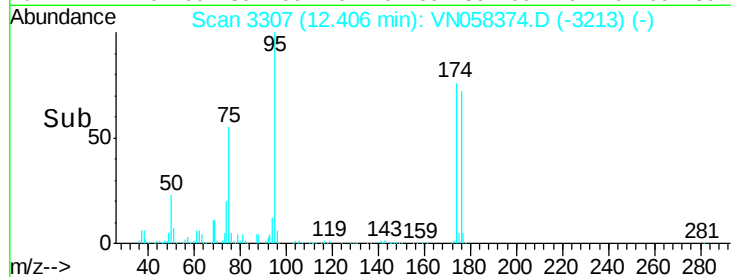
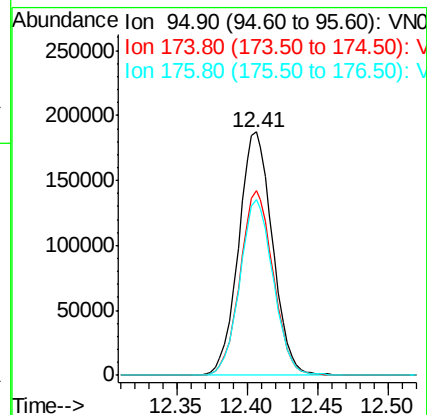
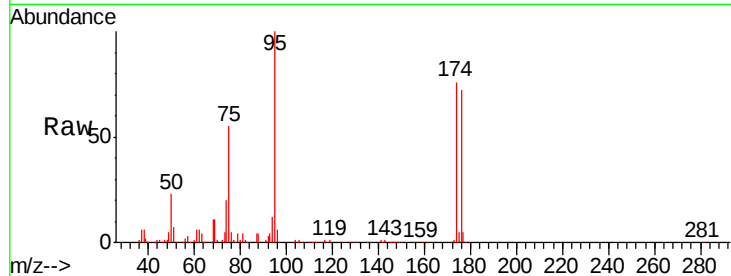
Tgt Ion: 95 Resp: 315438

Ion Ratio Lower Upper

95 100

174 74.5 0.0 152.2

176 71.3 0.0 148.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058374.D

Acq: 26 Sep 2019 10:55

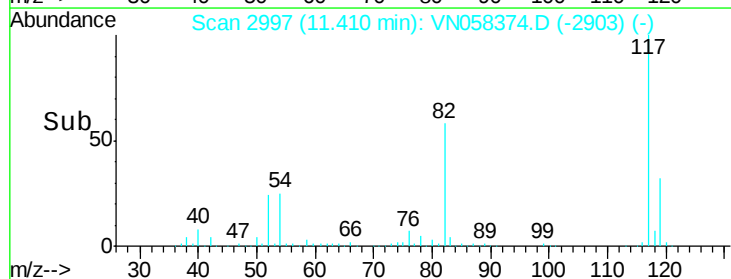
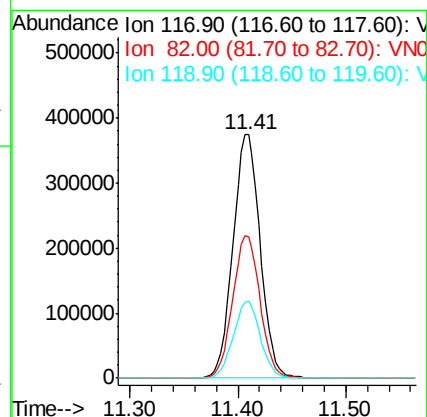
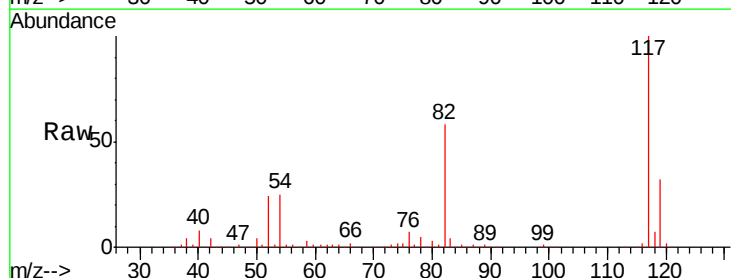
Tgt Ion: 117 Resp: 659702

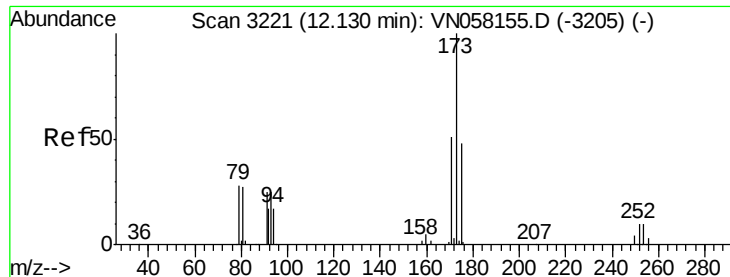
Ion Ratio Lower Upper

117 100

82 58.1 46.9 70.3

119 31.9 25.3 37.9

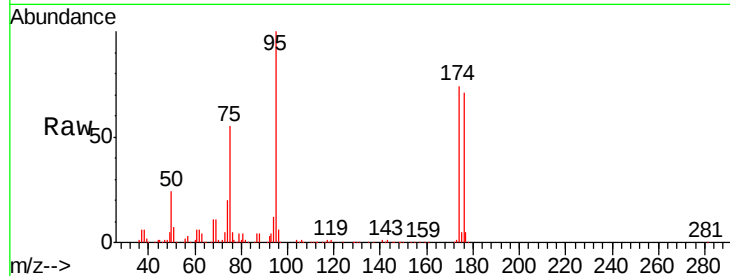




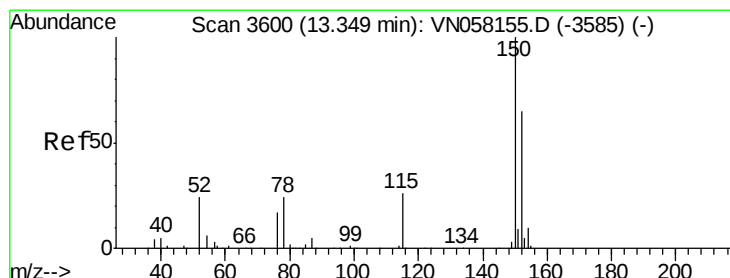
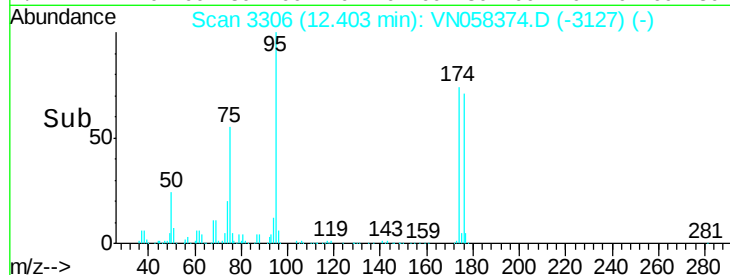
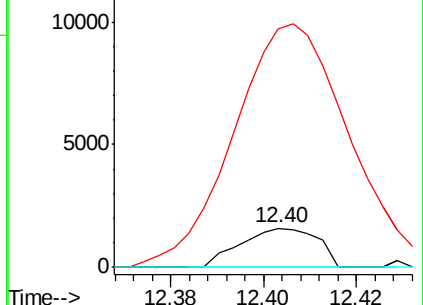
#71
Bromoform
Concen: 4.140 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.27 min
Lab File: VN058374.D
Acq: 26 Sep 2019 10:55

Instrument :
MSVOA_N
ClientSampled :
VN0926WBL02

Tgt Ion:173 Resp: 1832
Ion Ratio Lower Upper
173 100
175 783.8 24.2 72.6#
254 0.0 0.1 0.1#

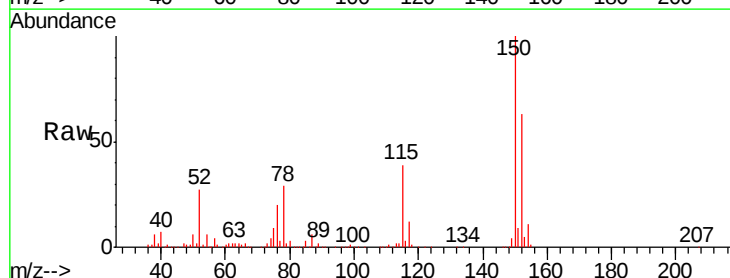


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

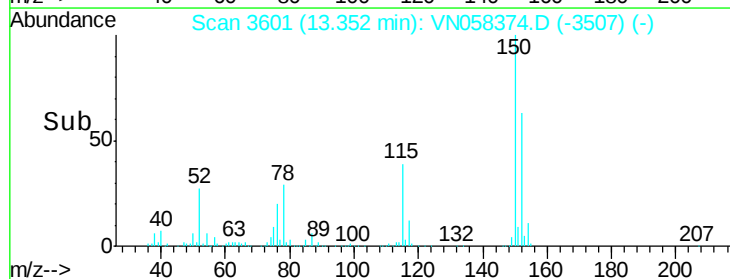
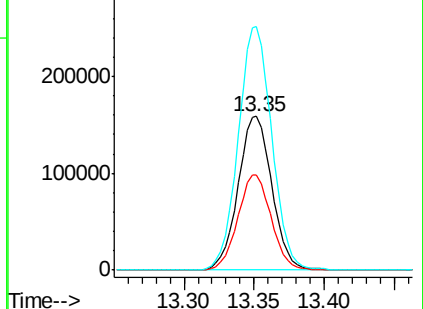


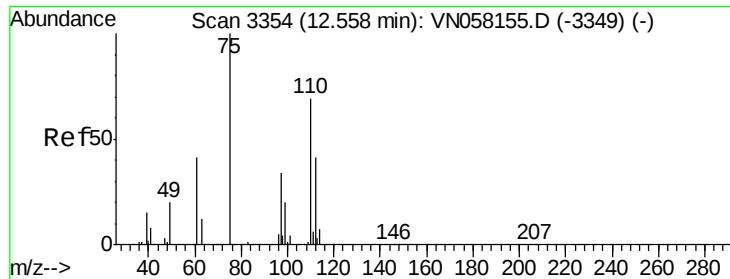
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN058374.D
Acq: 26 Sep 2019 10:55

Tgt Ion:152 Resp: 266402
Ion Ratio Lower Upper
152 100
115 61.2 30.1 90.3
150 157.4 0.0 346.4



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





#76

1,2,3-Trichloropropane

Concen: 36.340 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058374.D

Acq: 26 Sep 2019 10:55

Instrument :

MSVOA_N

ClientSampleId :

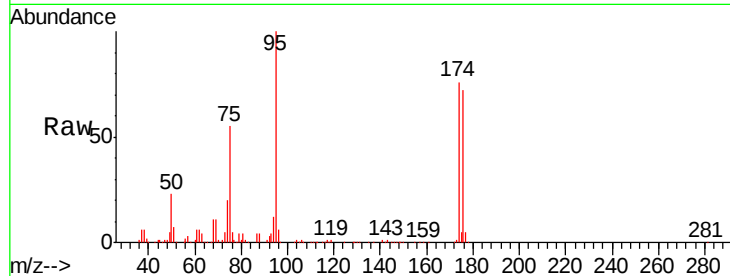
VN0926WBL02

Tgt Ion: 75 Resp: 173258

Ion Ratio Lower Upper

75 100

77 0.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.41

100000

80000

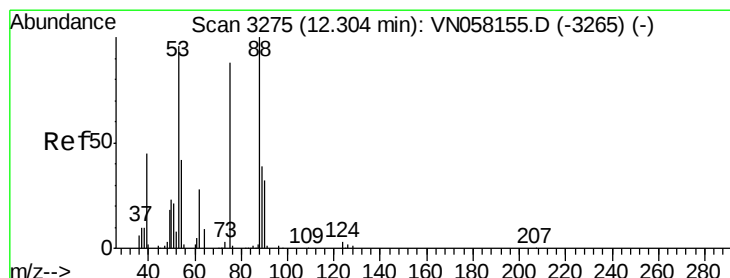
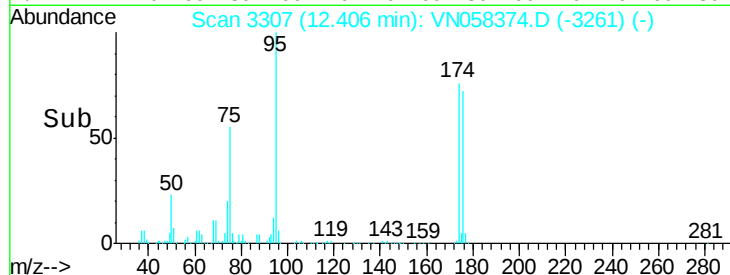
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 101.433 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058374.D

Acq: 26 Sep 2019 10:55

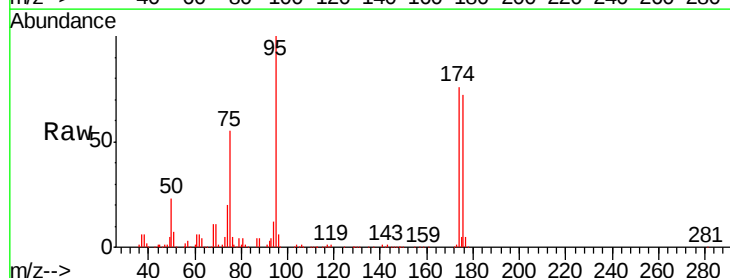
Tgt Ion: 75 Resp: 173258

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#



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

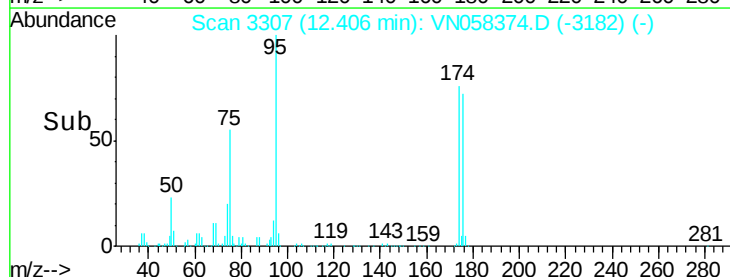
12.41

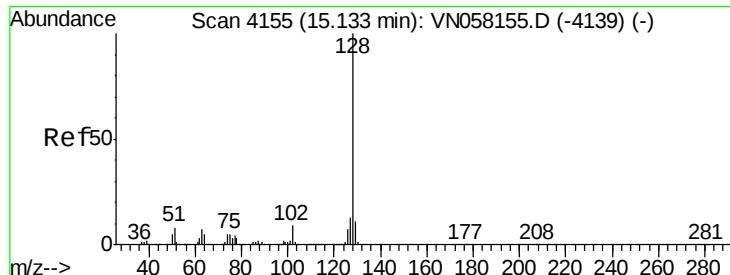
100000

50000

0

Time-->





#95

Naphthalene

Concen: 0.250 ug/l

RT: 15.15 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN058374.D

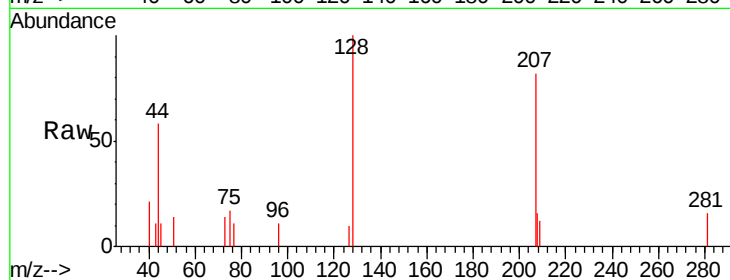
Acq: 26 Sep 2019 10:55

Instrument :

MSVOA_N

ClientSampleId :

VN0926WBL02



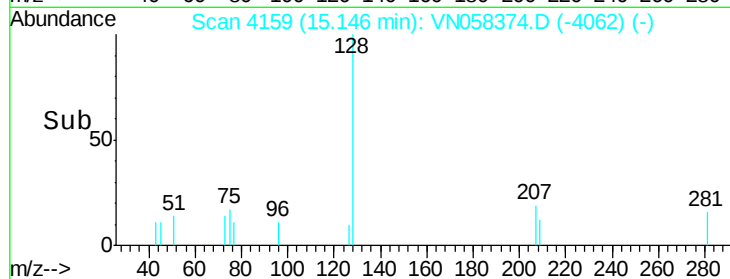
Tgt Ion:128 Resp: 3184

Ion Ratio Lower Upper

128 100

127 4.8 10.2 15.2#

129 2.0 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

