

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061819\
 Data File : VN056368.D
 Acq On : 18 Jun 2019 16:07
 Operator : JC/SP
 Sample : K3433-01DL 4X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 19 02:01:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 18 04:23:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	358466	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	604509	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	603652	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	206853	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	205382	50.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.92%	
35) Dibromofluoromethane	7.59	113	180637	46.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.20%	
50) Toluene-d8	10.09	98	749891	50.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.28%	
62) 4-Bromofluorobenzene	12.40	95	252907	51.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.06%	

Target Compounds

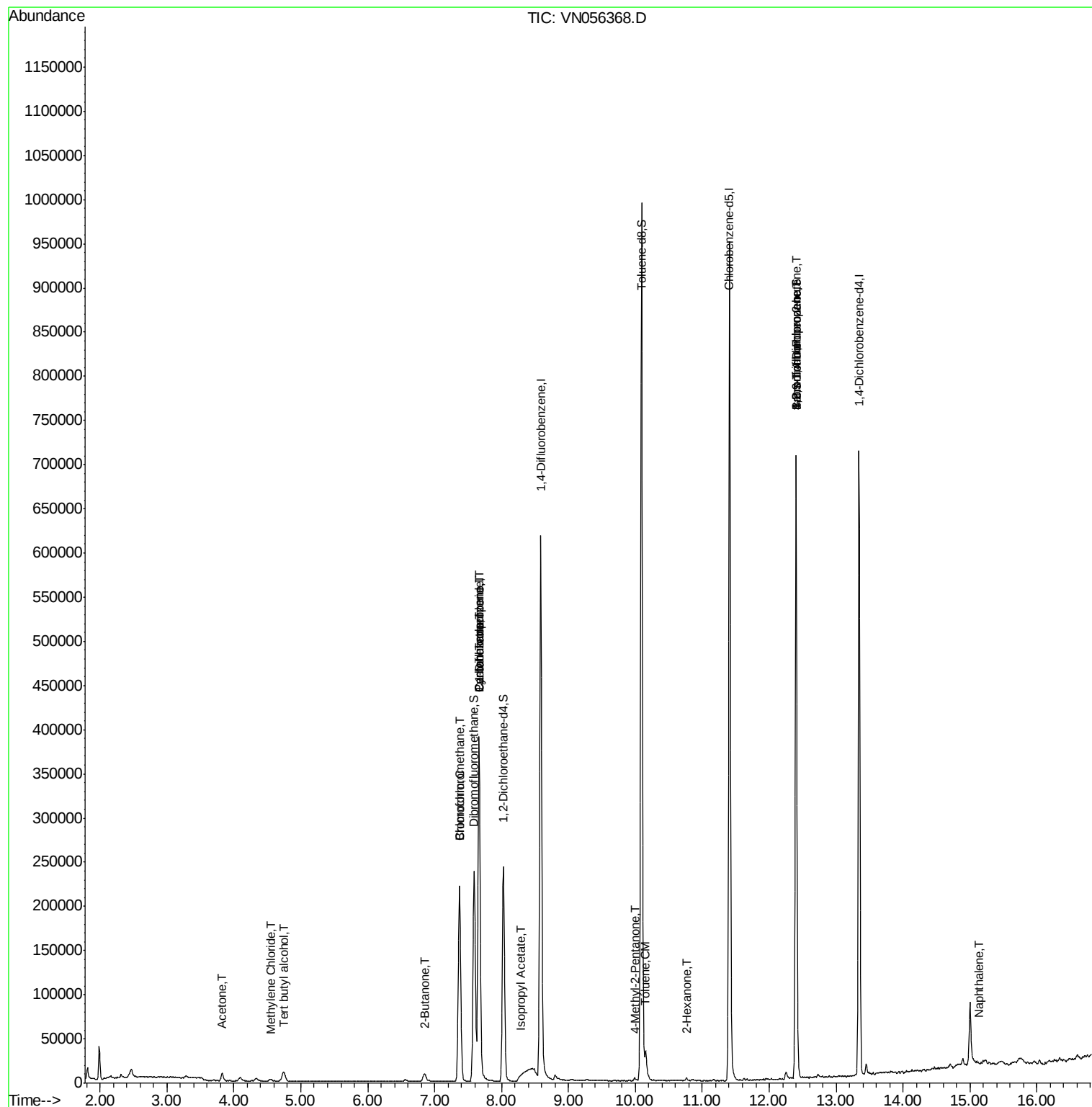
						Qvalue
11) Tert butyl alcohol	4.74	59	10488	16.536	ug/l #	73
16) Acetone	3.82	43	15163	6.808	ug/l	94
18) Methyl Acetate	4.33	43	6487	Below Cal	#	87
20) Methylene Chloride	4.55	84	1971	0.501	ug/l #	85
25) 2-Butanone	6.86	43	4078	1.511	ug/l	92
28) Bromochloromethane	7.37	49	17768	5.518	ug/l #	10
30) Chloroform	7.37	83	236697	36.955	ug/l	99
31) Cyclohexane	7.66	56	5382	0.866	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	23257	4.275	ug/l #	47
38) Carbon Tetrachloride	7.66	117	30847	5.908	ug/l #	16
43) Isopropyl Acetate	8.28	43	5112	0.620	ug/l #	60
51) 4-Methyl-2-Pentanone	9.99	43	2340	0.445	ug/l #	85
52) Toluene	10.15	92	11000	1.092	ug/l	97
59) 2-Hexanone	10.76	43	1210	0.310	ug/l #	38
71) Bromoform	12.40	173	1687	0.474	ug/l #	1
73) Isopropylbenzene	12.26	105	64	Below Cal	#	48
75) 1,1,2,2-Tetrachloroethane	12.51	83	177	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	118340	26.777	ug/l #	100
79) 2-Chlorotoluene	12.71	91	299	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	118340	83.193	ug/l #	13
83) tert-Butylbenzene	12.99	119	129	Below Cal	#	1
90) Hexachloroethane	13.98	117	140	Below Cal	#	4
95) Naphthalene	15.13	128	880	4.745	ug/l #	69

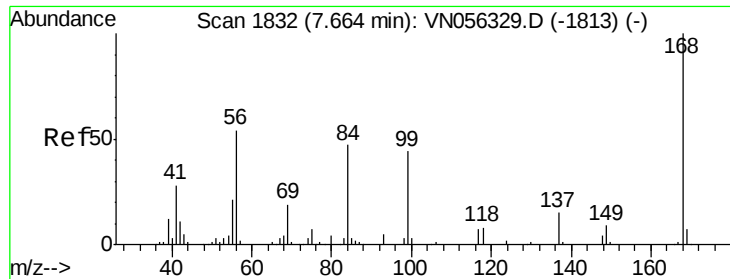
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jun 18 04:23:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

Instrument :

MSVOA_N

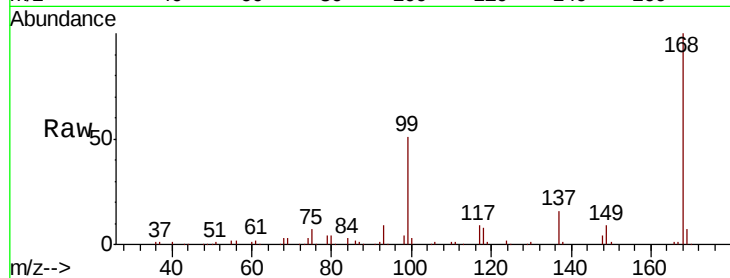
ClientSampled :

Tot Ion:168 Resp: 358466

Ion Ratio Lower Upper

168 100

99 50.8 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

150000

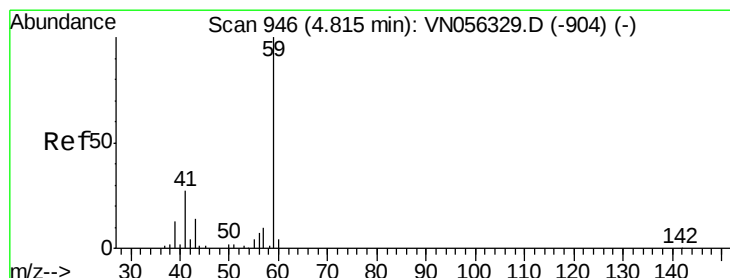
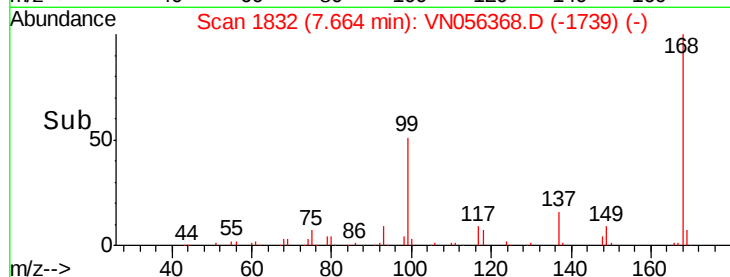
100000

50000

0

Time-->

7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 16.536 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.07 min

Lab File: VN056368.D

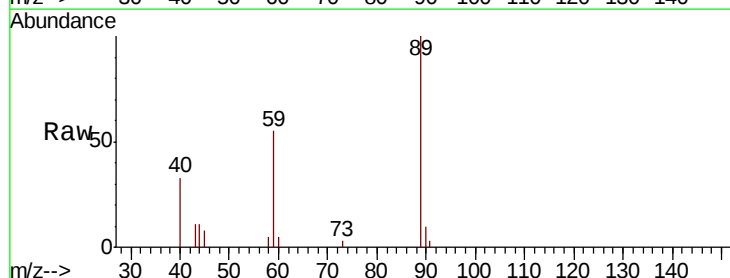
Acq: 18 Jun 2019 16:07

Tgt Ion: 59 Resp: 10488

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.74

3000

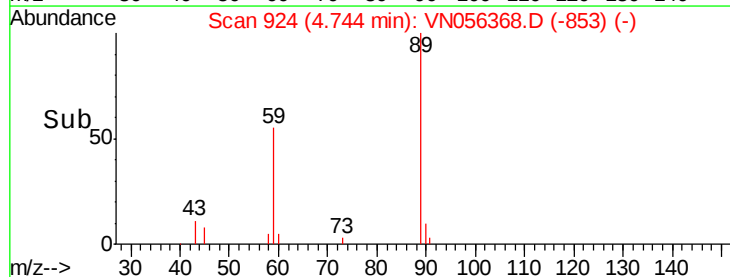
2000

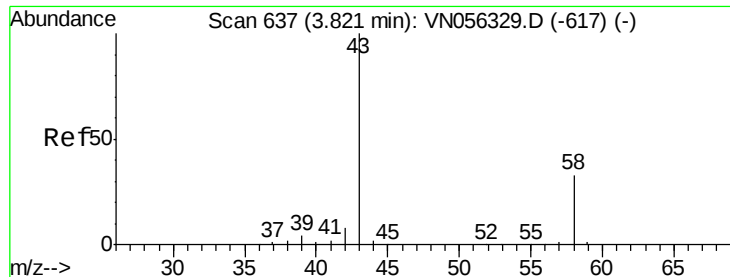
1000

0

Time-->

4.70 4.80





#16

Acetone

Concen: 6.808 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

Instrument :

MSVOA_N

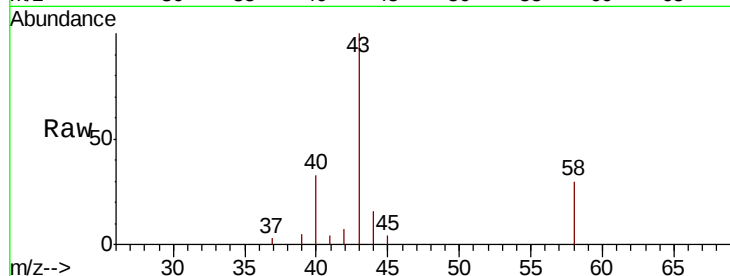
ClientSampleId :

Tot Ion: 43 Resp: 15163

Ion Ratio Lower Upper

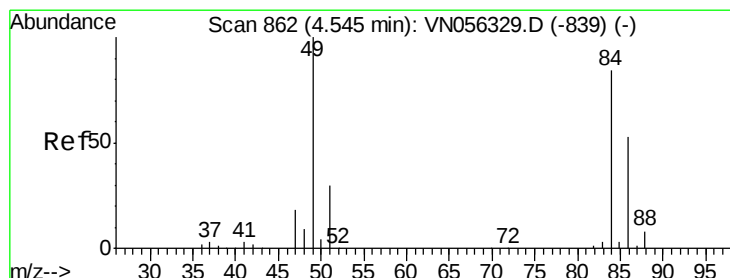
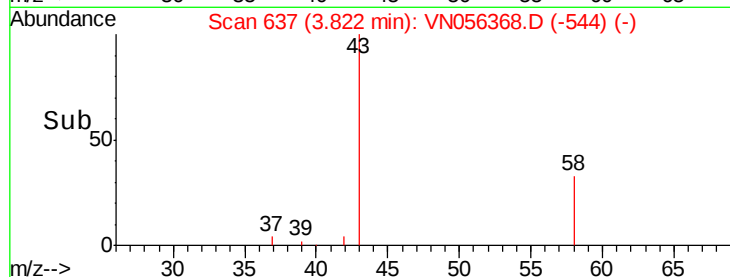
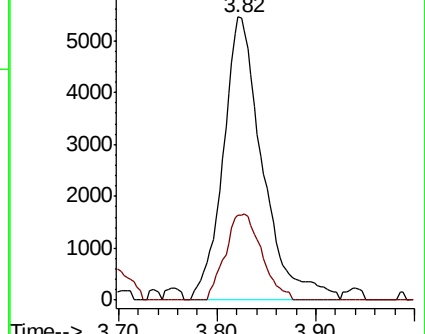
43 100

58 29.8 26.5 39.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#20

Methylene Chloride

Concen: 0.501 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.01 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

Tgt Ion: 84 Resp: 1971

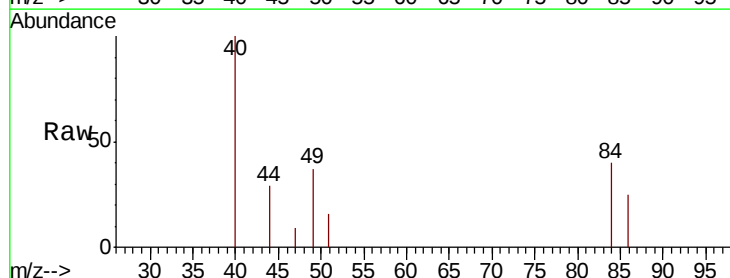
Ion Ratio Lower Upper

84 100

49 93.0 95.0 142.6#

51 40.4 28.2 42.4

86 61.1 50.6 75.8

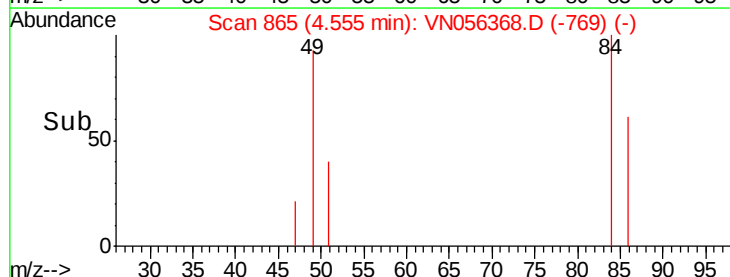
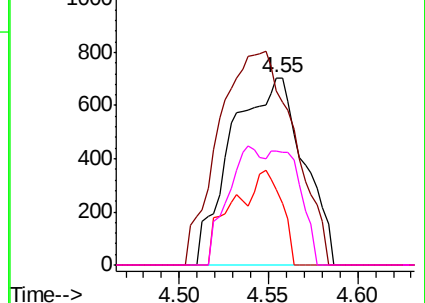


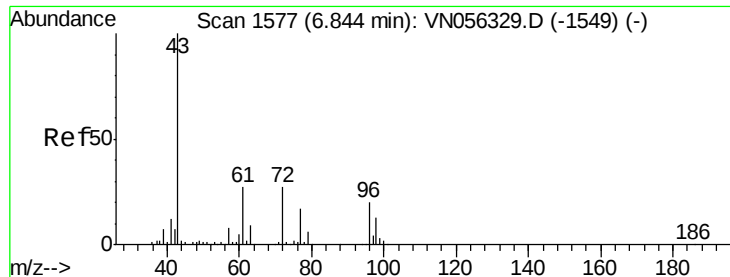
Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0





#25

2-Butanone

Concen: 1.511 ug/l

RT: 6.86 min Scan# 1582

Delta R.T. 0.02 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

Instrument :

MSVOA_N

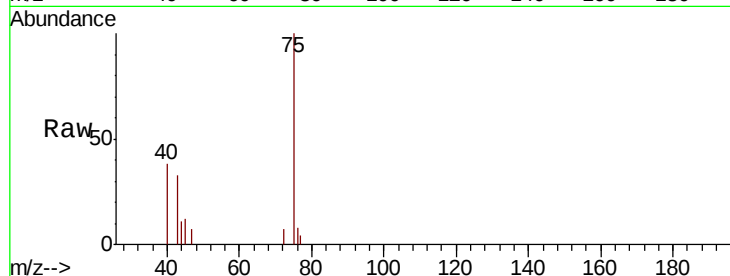
ClientSampleId :

Tot Ion: 43 Resp: 4078

Ion Ratio Lower Upper

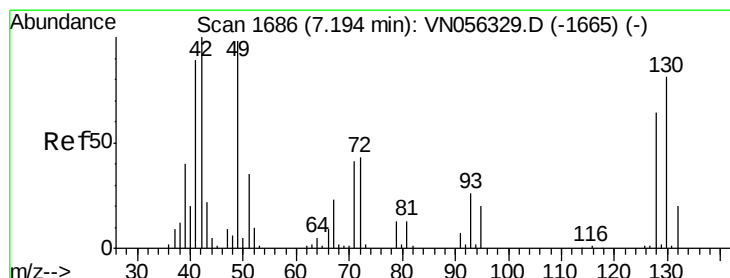
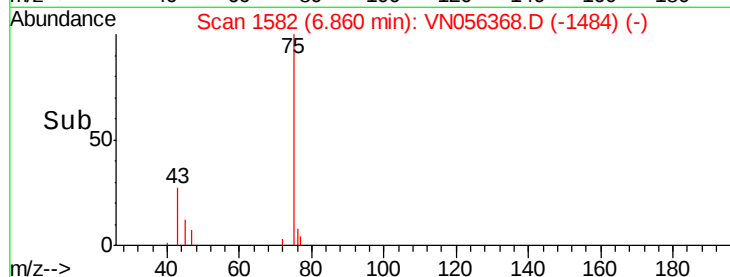
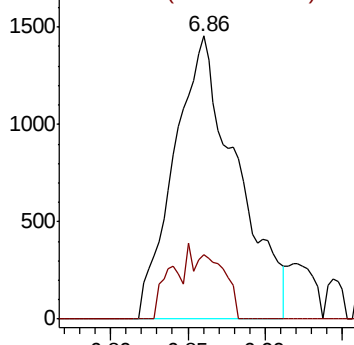
43 100

72 22.6 21.4 32.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#28

Bromochloromethane

Concen: 5.518 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. 0.18 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

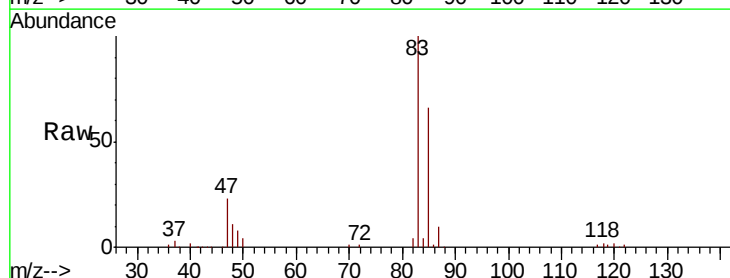
Tgt Ion: 49 Resp: 17768

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.4

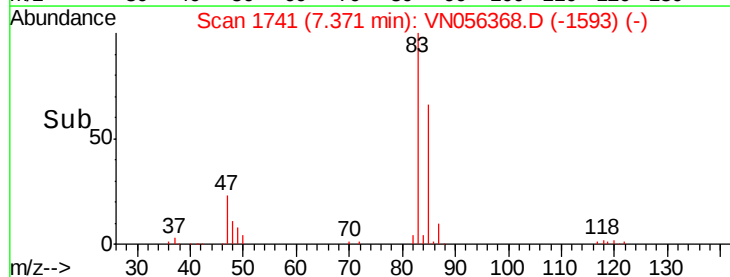
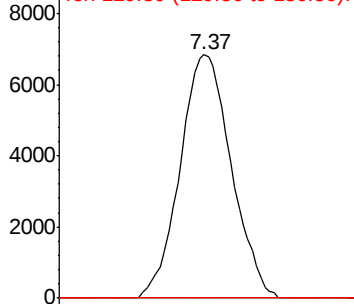
130 0.0 66.4 99.6#

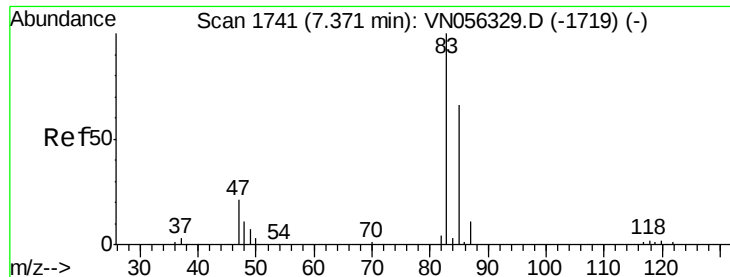


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

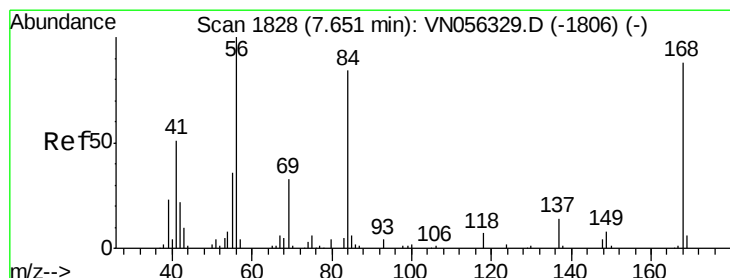
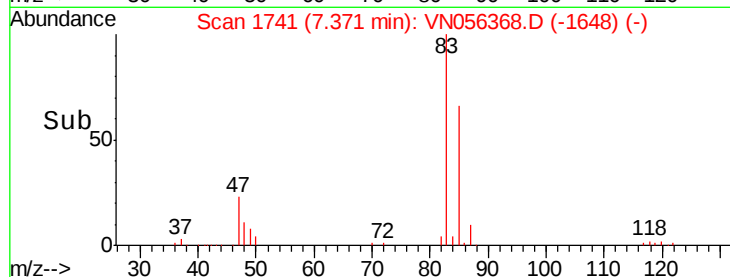
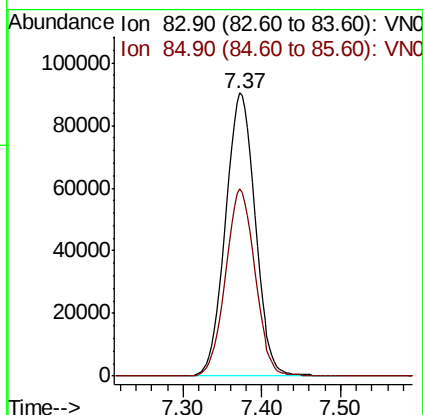
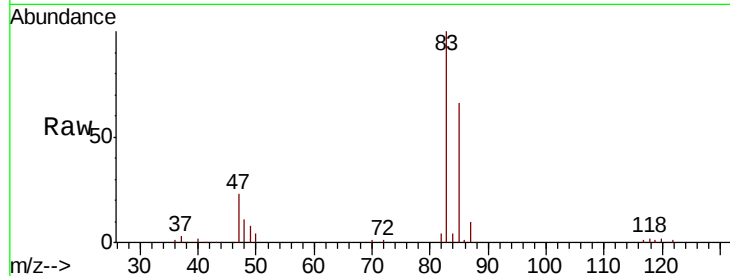




#30
Chloroform
Concen: 36.955 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN056368.D
Acq: 18 Jun 2019 16:07

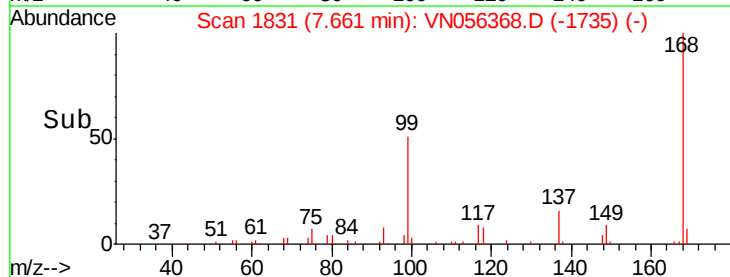
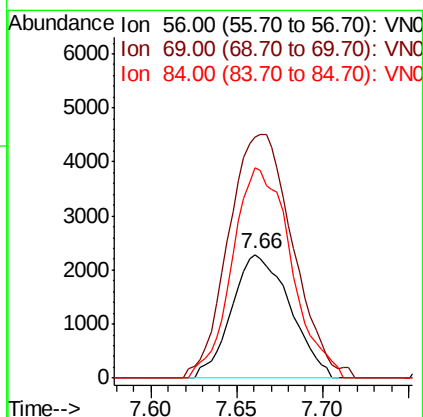
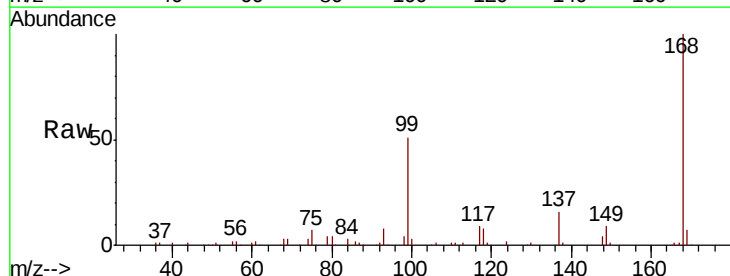
Instrument :
MSVOA_N
ClientSampled :

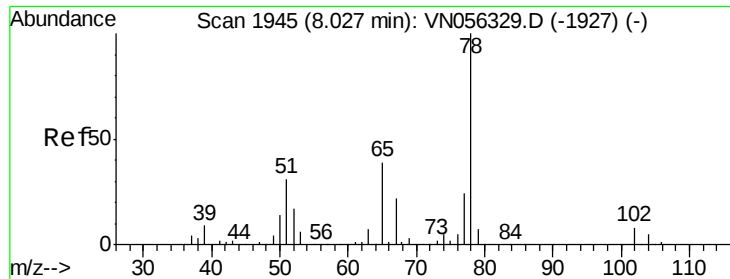
Tot Ion: 83 Resp: 236697
Ion Ratio Lower Upper
83 100
85 66.4 52.6 78.8



#31
Cyclohexane
Concen: 0.866 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056368.D
Acq: 18 Jun 2019 16:07

Tgt Ion: 56 Resp: 5382
Ion Ratio Lower Upper
56 100
69 187.6 26.0 39.0#
84 170.7 67.4 101.0#





#33

1,2-Dichloroethane-d4

Concen: 50.955 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

Instrument :

MSVOA_N

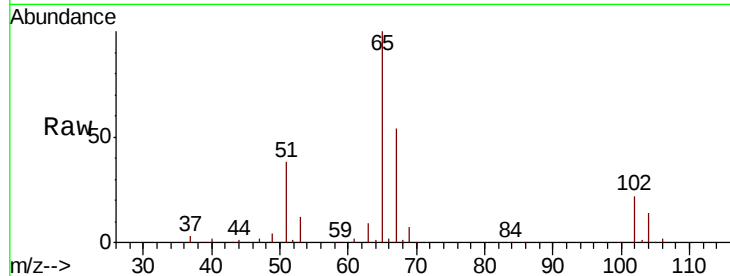
ClientSampled :

Tot Ion: 65 Resp: 205382

Ion Ratio Lower Upper

65 100

67 54.4 0.0 110.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

100000

80000

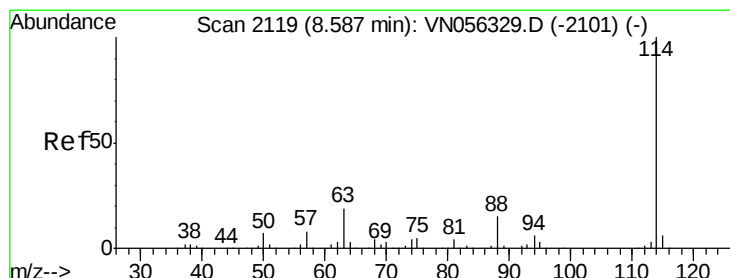
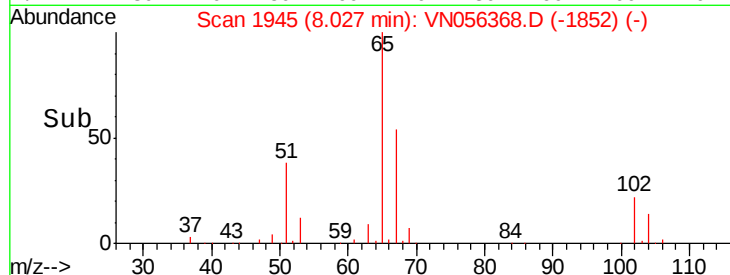
60000

40000

20000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

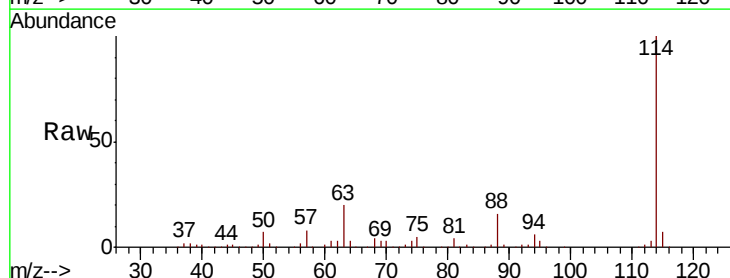
Tgt Ion: 114 Resp: 604509

Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.8

88 15.5 0.0 30.6



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

8.59

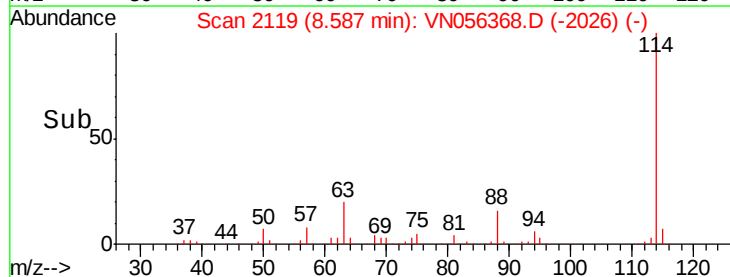
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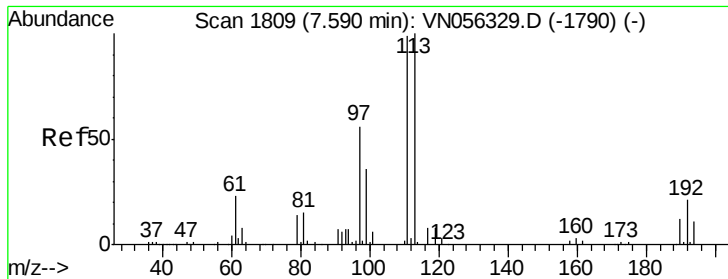
200000

100000

0

Time--> 8.50 8.60 8.70





#35

Dibromofluoromethane

Concen: 46.597 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

Instrument :

MSVOA_N

ClientSampled :

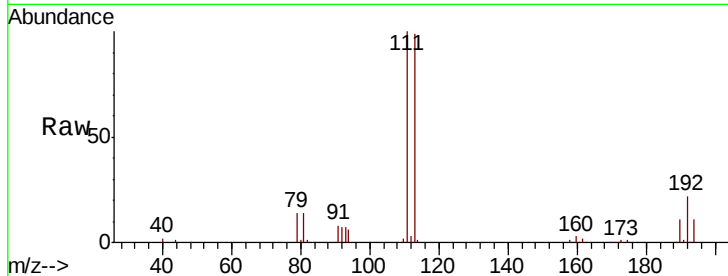
Tot Ion:113 Resp: 180637

Ion Ratio Lower Upper

113 100

111 103.5 82.1 123.1

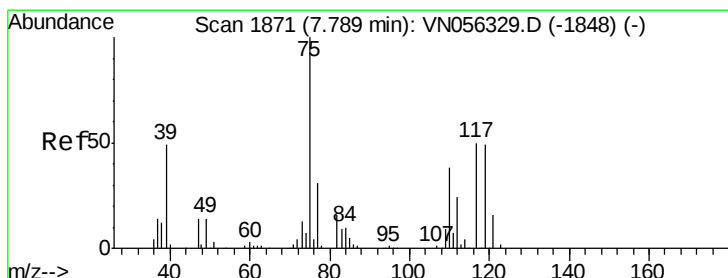
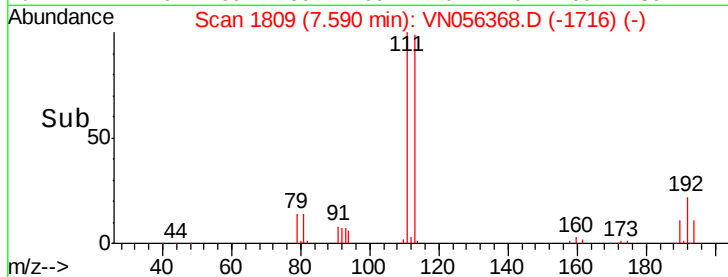
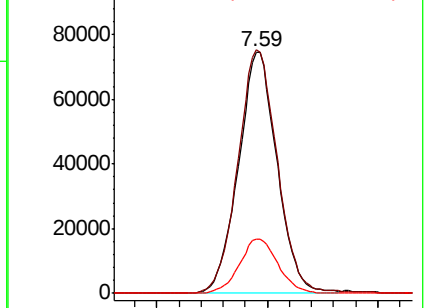
192 22.5 17.6 26.4



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: 4.275 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

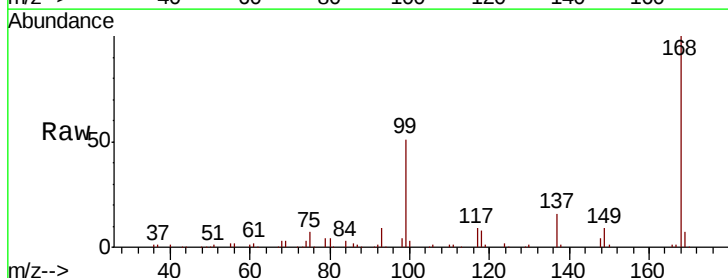
Tgt Ion: 75 Resp: 23257

Ion Ratio Lower Upper

75 100

110 7.7 18.6 56.0#

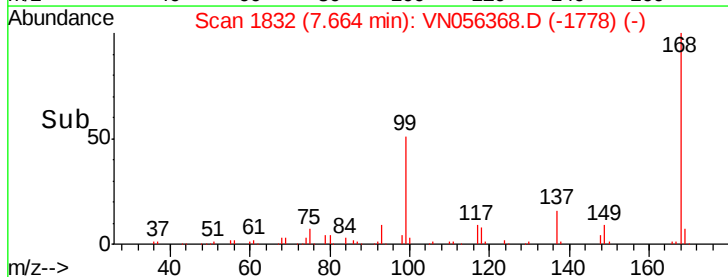
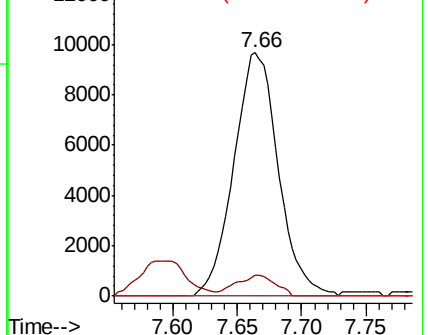
77 0.0 25.0 37.6#

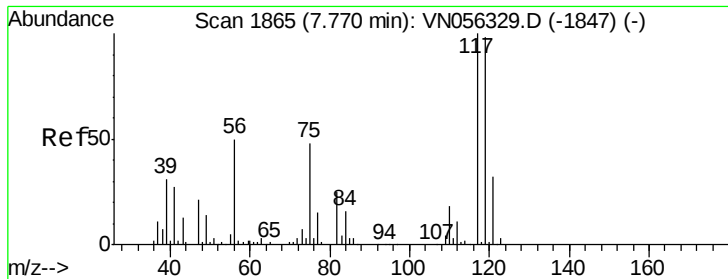


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

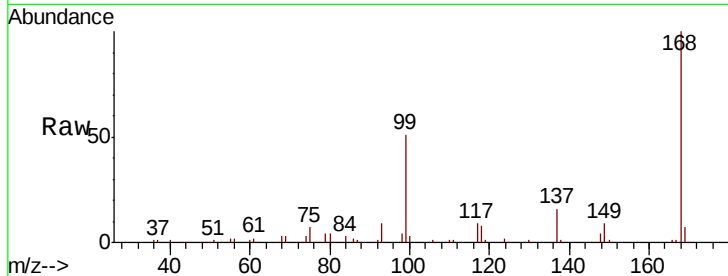




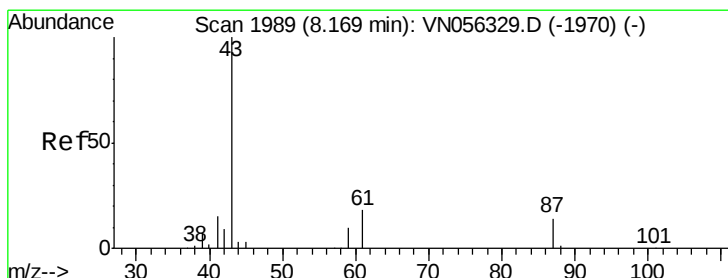
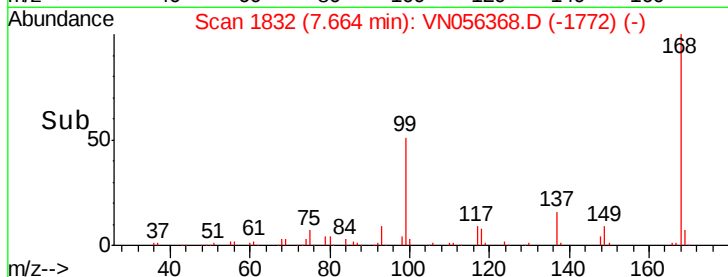
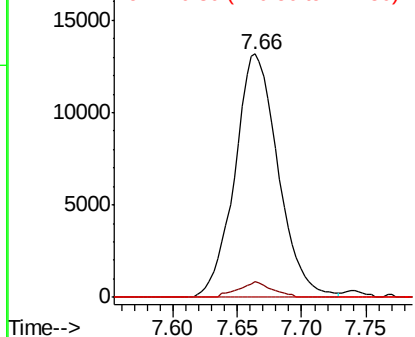
#38
Carbon Tetrachloride
Concen: 5.908 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN056368.D
Acq: 18 Jun 2019 16:07

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 30847
Ion Ratio Lower Upper
117 100
119 6.2 77.8 116.8#
121 0.0 25.3 37.9#

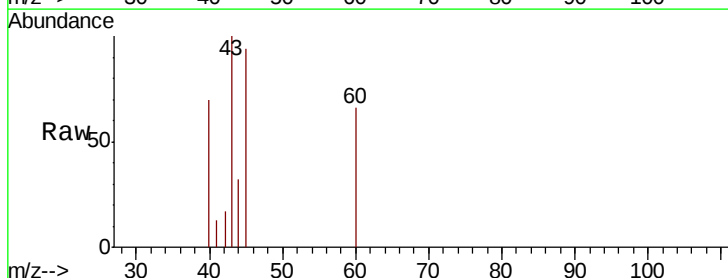


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

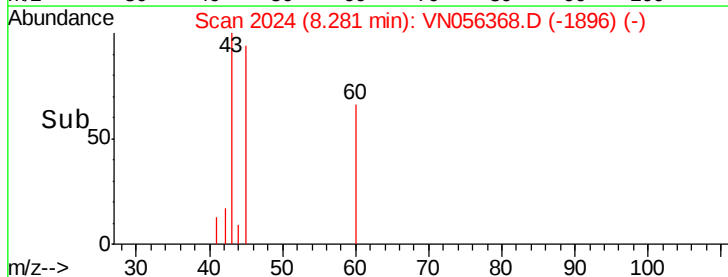
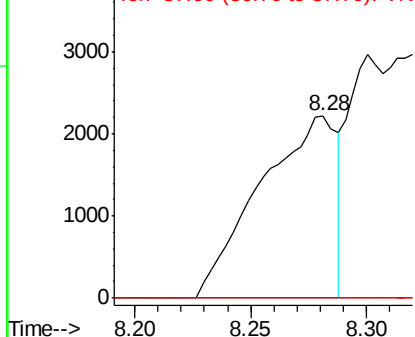


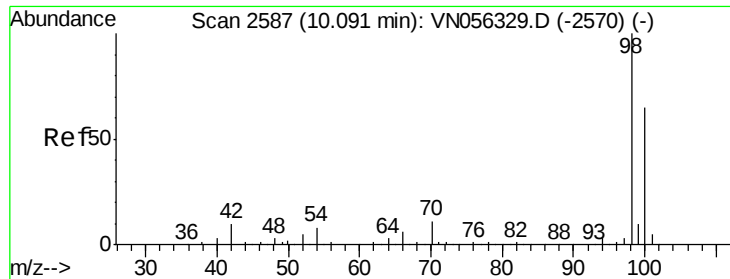
#43
Isopropyl Acetate
Concen: 0.620 ug/l
RT: 8.28 min Scan# 2024
Delta R.T. 0.11 min
Lab File: VN056368.D
Acq: 18 Jun 2019 16:07

Tgt Ion: 43 Resp: 5112
Ion Ratio Lower Upper
43 100
61 0.0 16.6 25.0#
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: 50.635 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

Instrument :

MSVOA_N

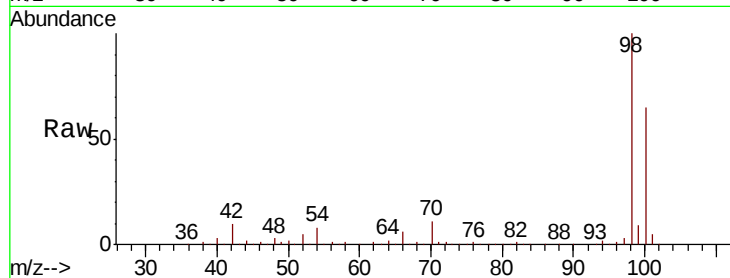
ClientSampled :

Tot Ion: 98 Resp: 749891

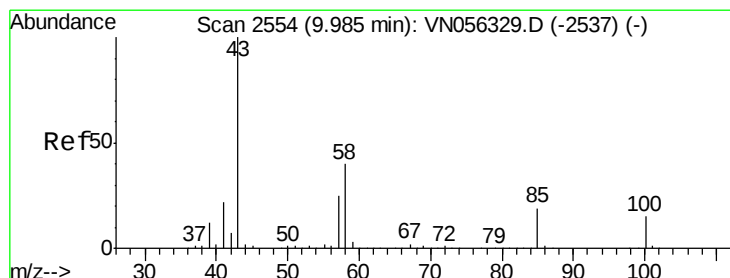
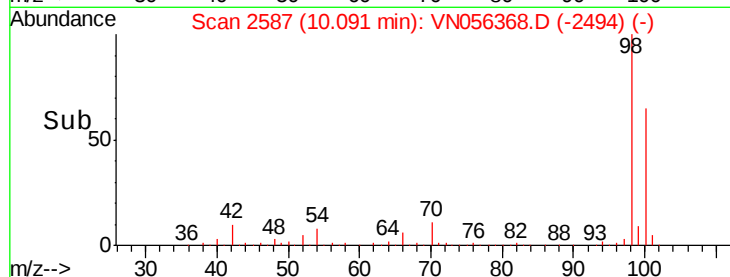
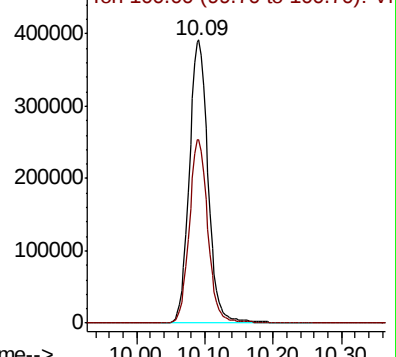
Ion Ratio Lower Upper

98 100

100 64.0 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN056329.D (-2570) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.445 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN056368.D

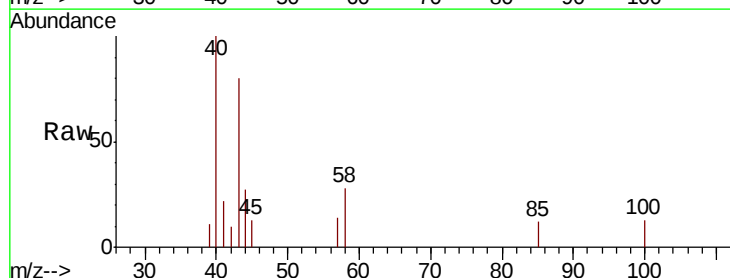
Acq: 18 Jun 2019 16:07

Tgt Ion: 43 Resp: 2340

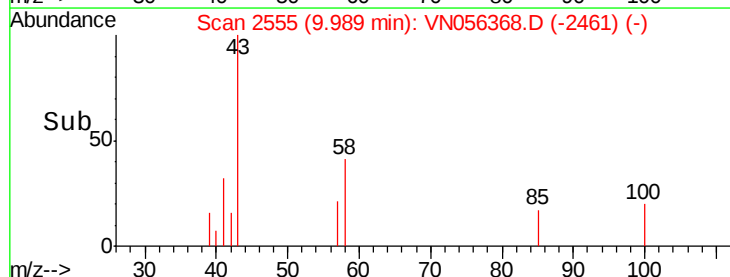
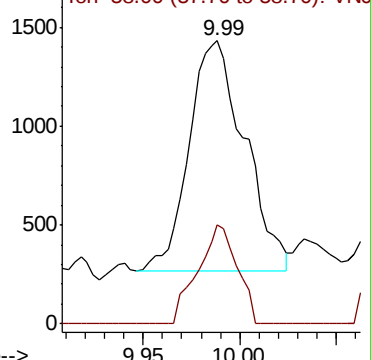
Ion Ratio Lower Upper

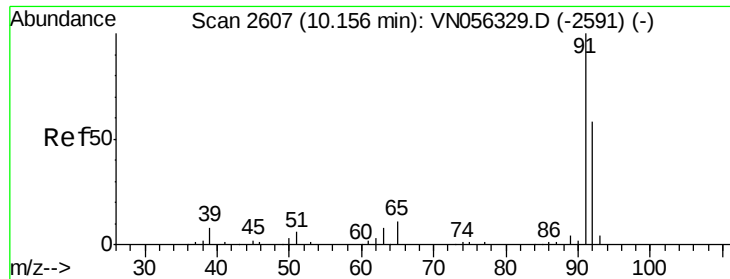
43 100

58 30.2 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN056329.D (-2537) (-)





#52

Toluene

Concen: 1.092 ug/l

RT: 10.15 min Scan# 2606

Delta R.T. -0.00 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

Instrument :

MSVOA_N

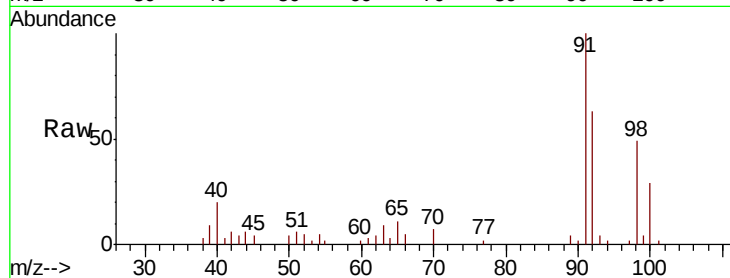
ClientSampled :

Tot Ion: 92 Resp: 11000

Ion Ratio Lower Upper

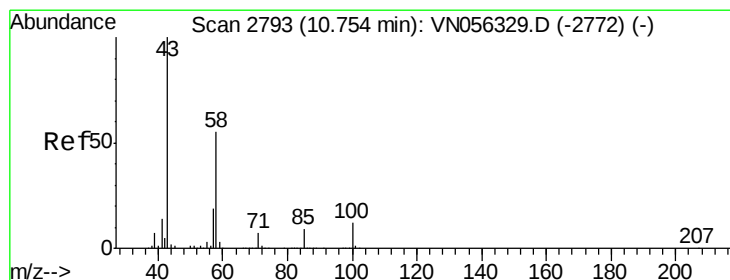
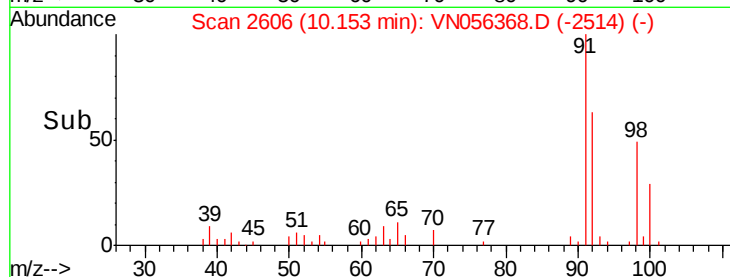
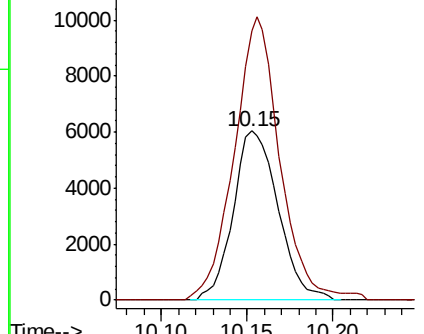
92 100

91 170.2 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#59

2-Hexanone

Concen: 0.310 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.00 min

Lab File: VN056368.D

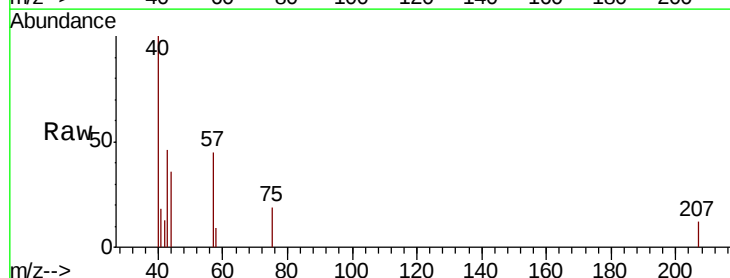
Acq: 18 Jun 2019 16:07

Tgt Ion: 43 Resp: 1210

Ion Ratio Lower Upper

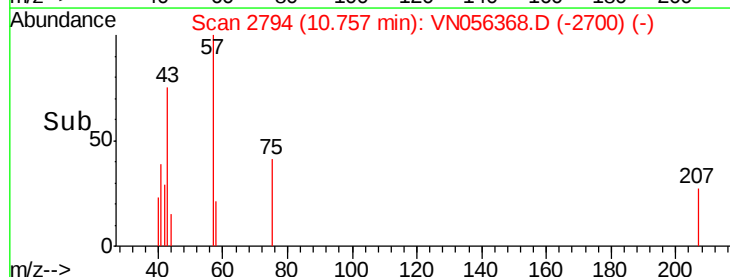
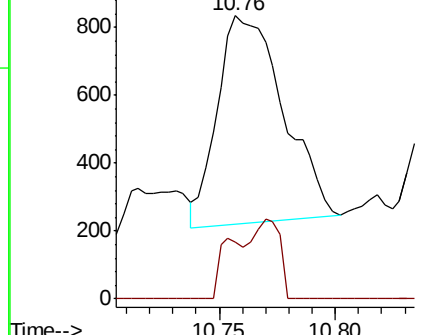
43 100

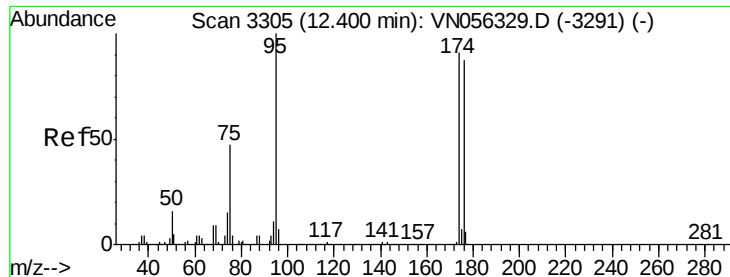
58 10.5 27.8 83.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 51.535 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

Instrument :

MSVOA_N

ClientSampleId :

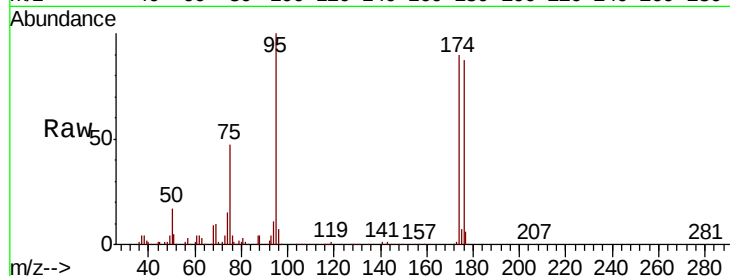
Tot Ion: 95 Resp: 252907

Ion Ratio Lower Upper

95 100

174 90.2 0.0 182.6

176 88.1 0.0 176.8



Abundance Ion 94.90 (94.60 to 95.60): VN056329.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN056329.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN056329.D (-3291) (-)

12.40

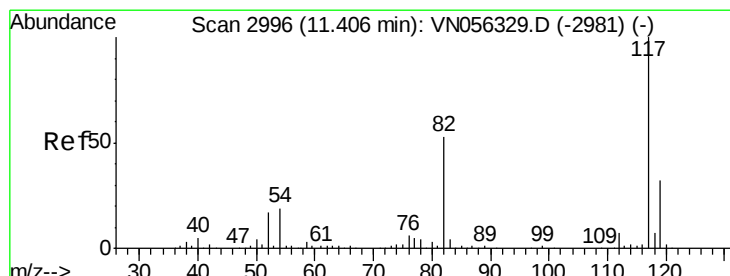
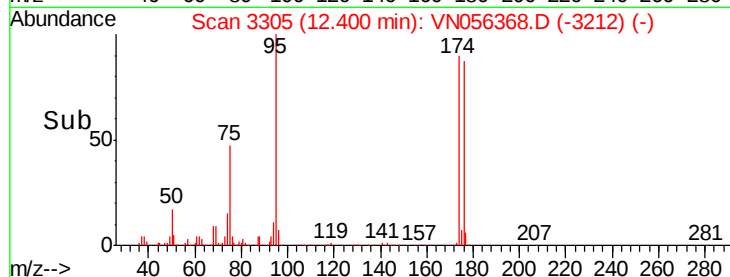
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

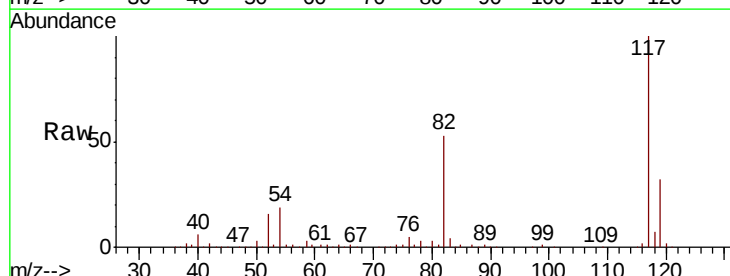
Tgt Ion: 117 Resp: 603652

Ion Ratio Lower Upper

117 100

82 52.7 42.4 63.6

119 31.8 26.0 39.0



Abundance Ion 116.90 (116.60 to 117.60): VN056329.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN056329.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN056329.D (-2981) (-)

11.41

400000

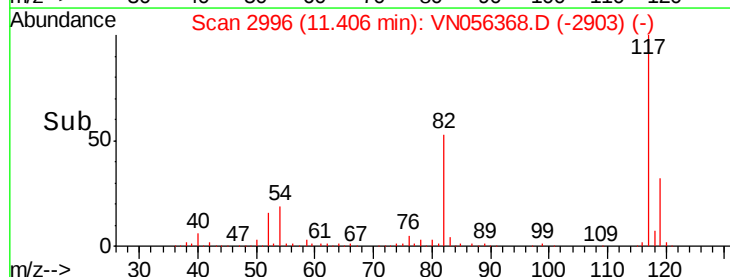
300000

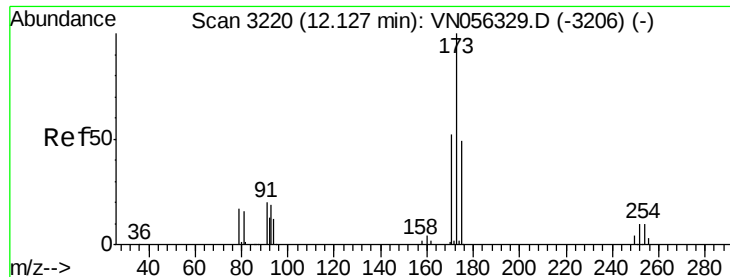
200000

100000

0

Time--> 11.30 11.40 11.50 11.60

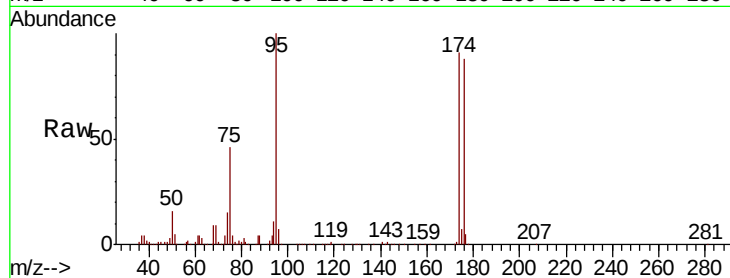




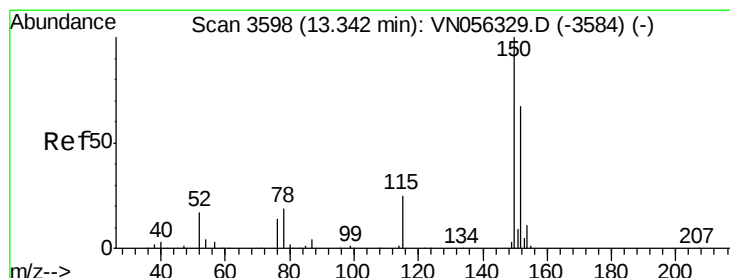
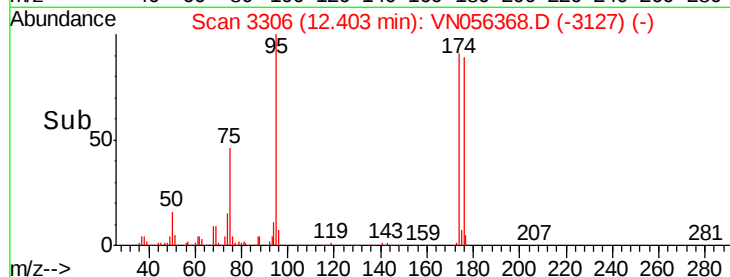
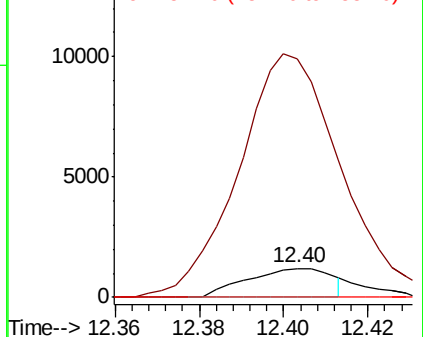
#71
 Bromoform
 Concen: 0.474 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.28 min
 Lab File: VN056368.D
 Acq: 18 Jun 2019 16:07

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:173 Resp: 1687
 Ion Ratio Lower Upper
 173 100
 175 871.4 24.3 73.0#
 254 0.0 0.0 0.0

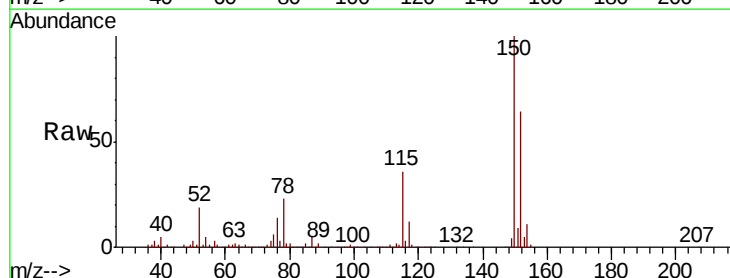


Abundance Ion 172.70 (172.40 to 173.40): V
 Ion 174.70 (174.40 to 175.40): V
 Ion 254.40 (254.10 to 255.10): V

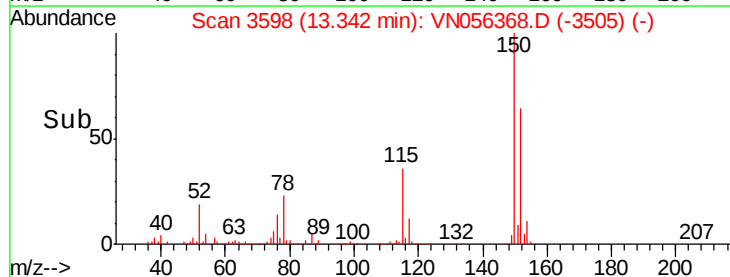
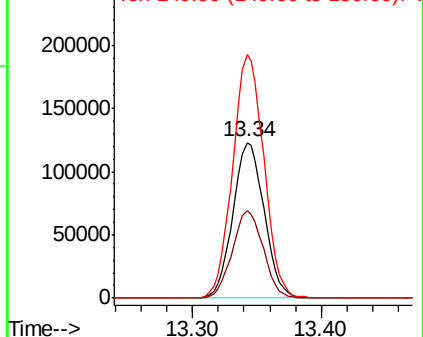


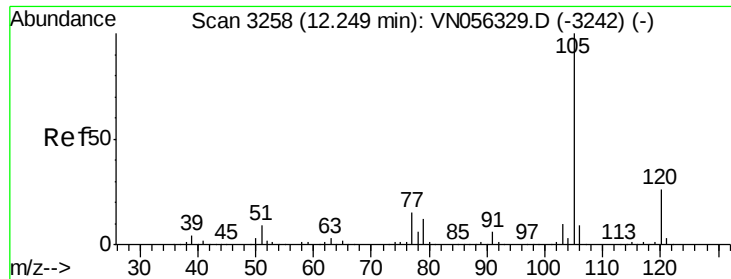
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.34 min Scan# 3598
 Delta R.T. 0.00 min
 Lab File: VN056368.D
 Acq: 18 Jun 2019 16:07

Tgt Ion:152 Resp: 206853
 Ion Ratio Lower Upper
 152 100
 115 55.6 27.8 83.3
 150 156.4 0.0 345.8



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: 12.26 min Scan# 3260

Delta R.T. 0.01 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

Instrument :

MSVOA_N

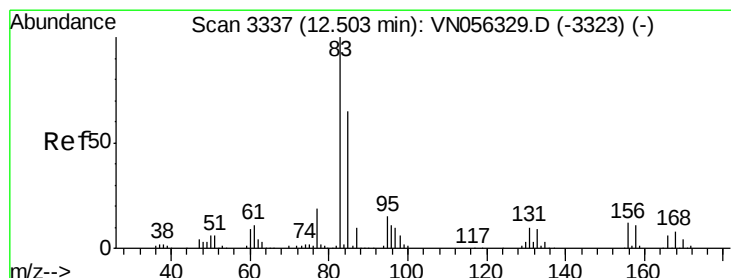
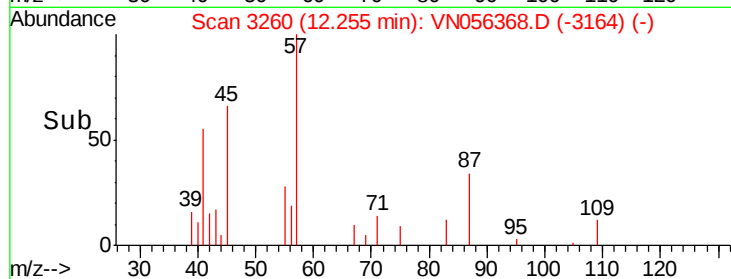
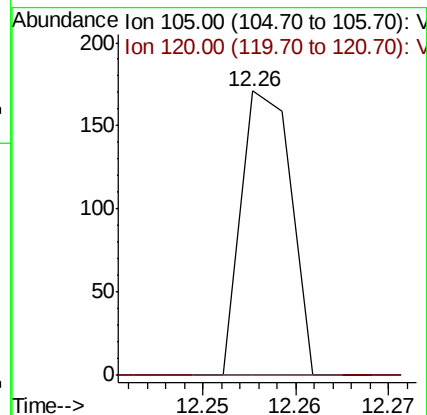
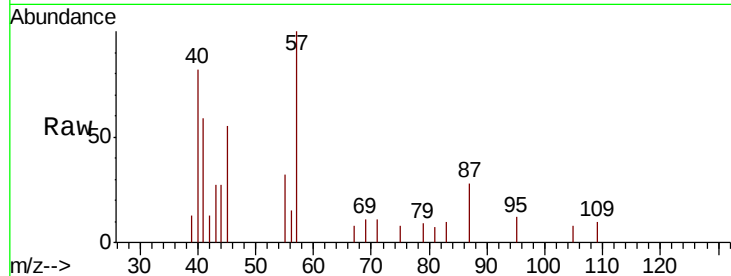
ClientSampleId :

Tot Ion:105 Resp: 64

Ion Ratio Lower Upper

105 100

120 0.0 13.3 39.8#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.51 min Scan# 3338

Delta R.T. 0.00 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

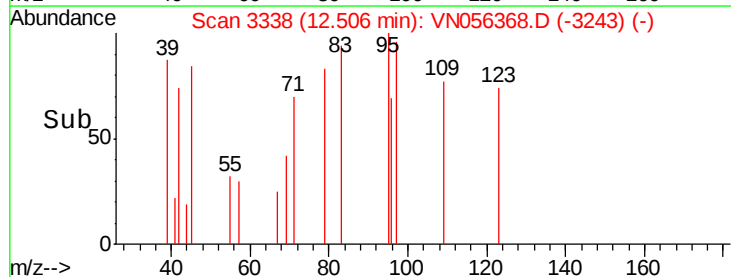
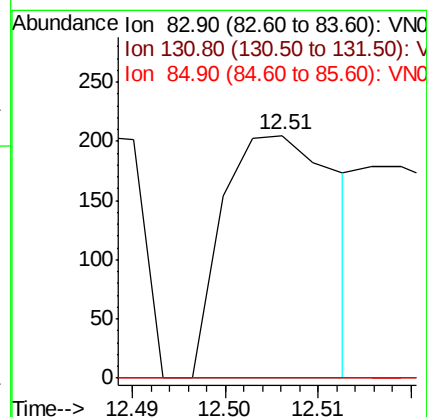
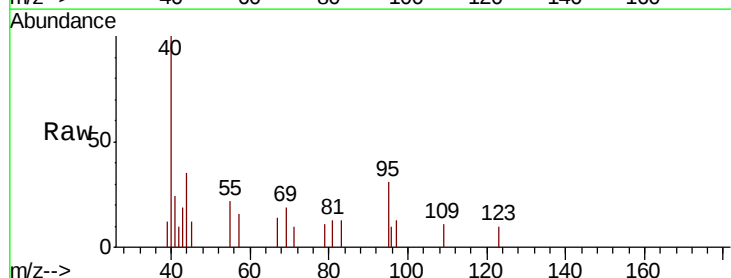
Tgt Ion: 83 Resp: 177

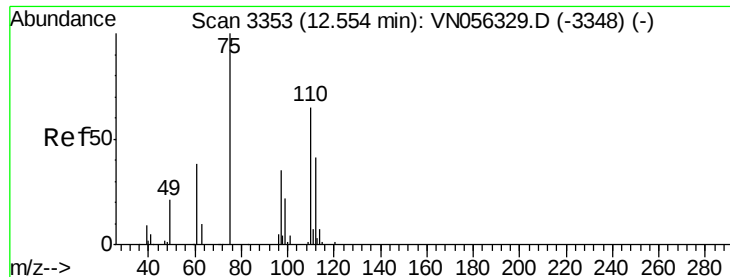
Ion Ratio Lower Upper

83 100

131 0.0 5.3 15.8#

85 0.0 32.2 96.6#





#76

1,2,3-Trichloropropane

Concen: 26.777 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

Instrument :

MSVOA_N

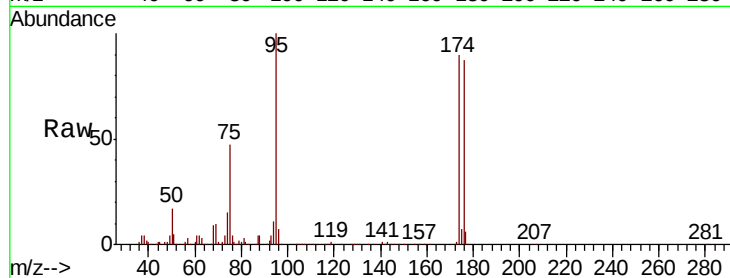
ClientSampleId :

Tot Ion: 75 Resp: 118340

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

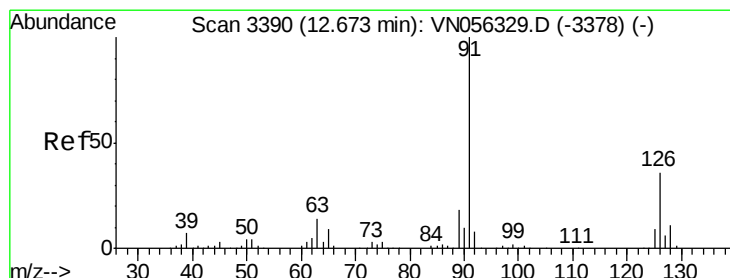
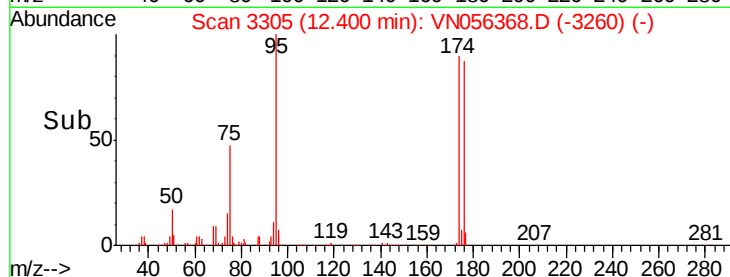
60000

40000

20000

0

Time-->



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.71 min Scan# 3400

Delta R.T. 0.03 min

Lab File: VN056368.D

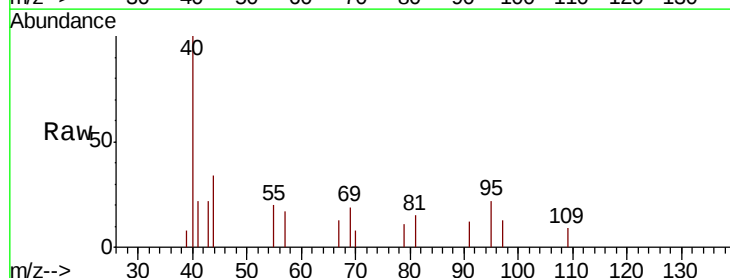
Acq: 18 Jun 2019 16:07

Tgt Ion: 91 Resp: 299

Ion Ratio Lower Upper

91 100

126 0.0 18.0 54.0#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

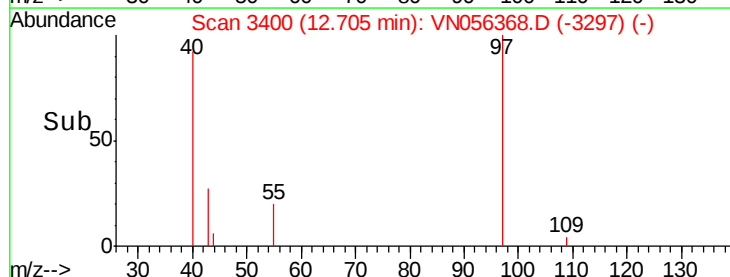
300

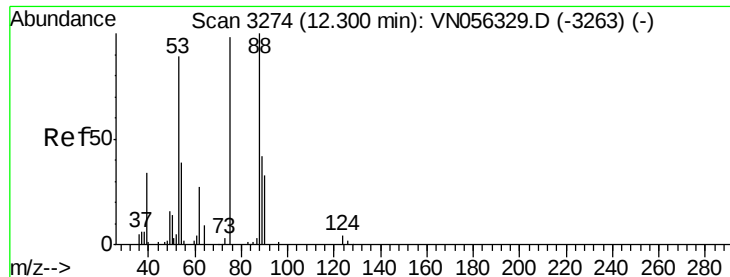
200

100

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 83.193 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

Instrument :

MSVOA_N

ClientSampled :

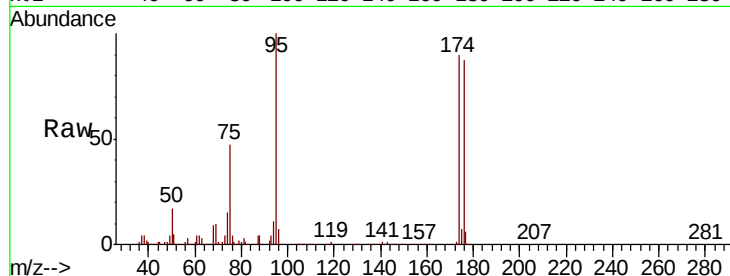
Tot Ion: 75 Resp: 118340

Ion Ratio Lower Upper

75 100

53 0.0 73.5 110.3#

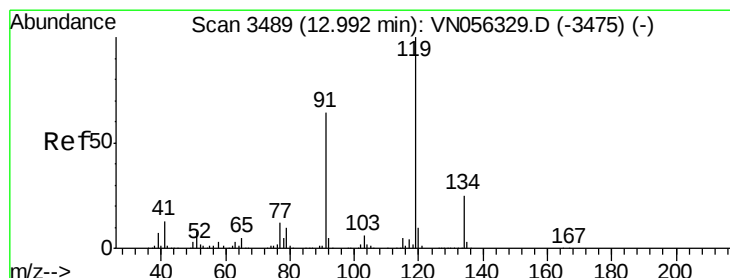
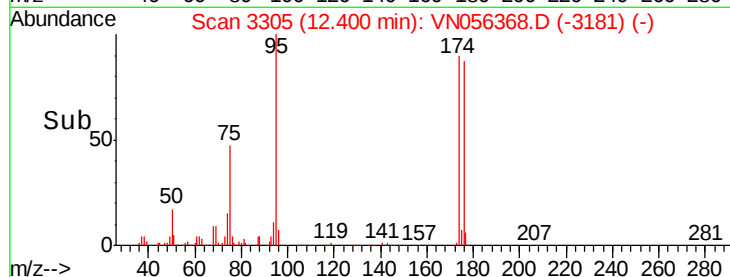
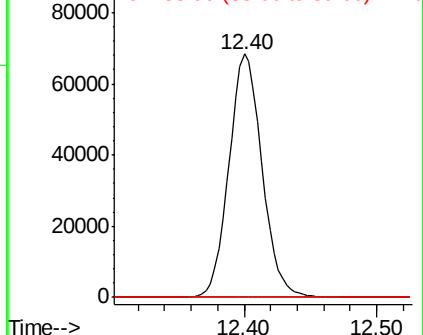
89 0.0 35.4 53.2#



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



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3488

Delta R.T. -0.00 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

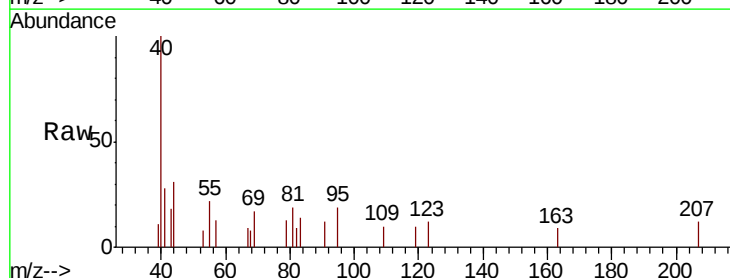
Tgt Ion: 119 Resp: 129

Ion Ratio Lower Upper

119 100

91 198.4 31.5 94.5#

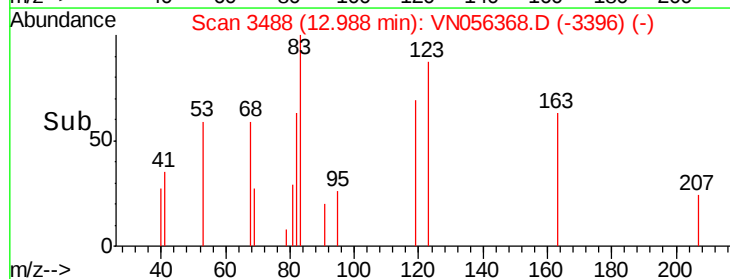
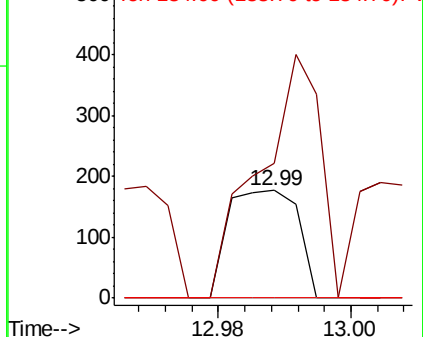
134 0.0 13.6 40.7#

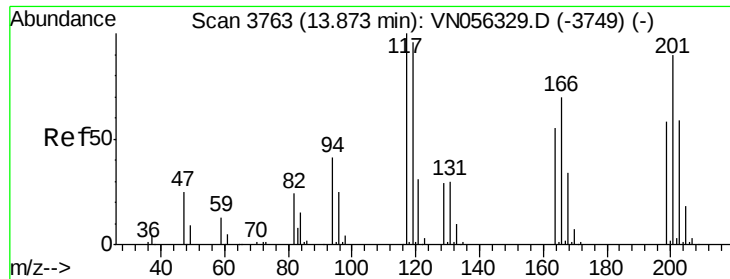


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: Below Cal

RT: 13.98 min Scan# 3797

Delta R.T. 0.11 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

Instrument :

MSVOA_N

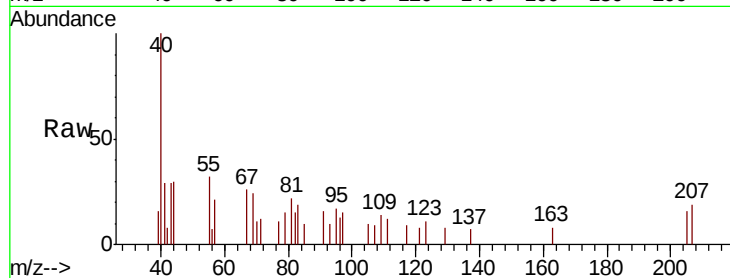
ClientSampled :

Tot Ion:117 Resp: 140

Ion Ratio Lower Upper

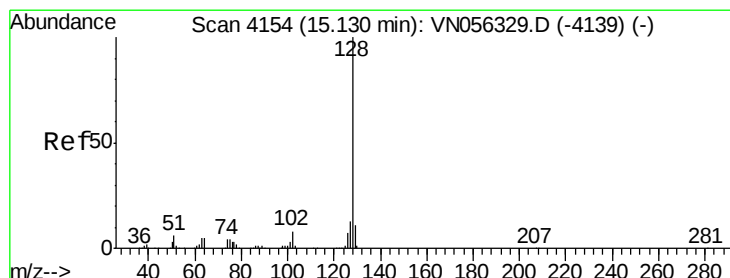
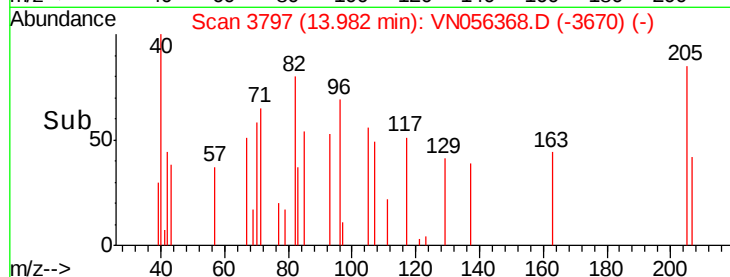
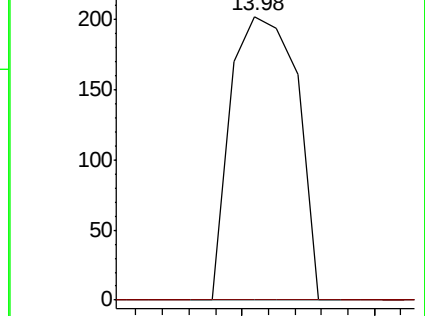
117 100

201 0.0 45.8 137.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 4.745 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN056368.D

Acq: 18 Jun 2019 16:07

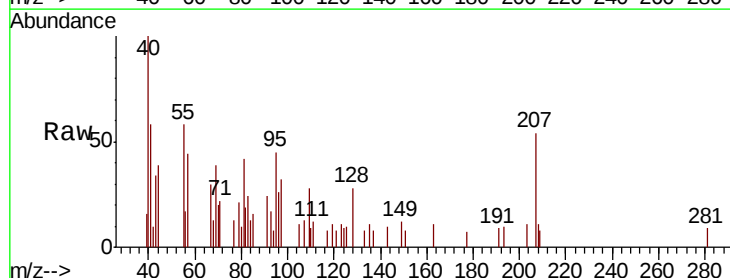
Tgt Ion:128 Resp: 880

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

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

