

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN060819\
 Data File : VN056131.D
 Acq On : 8 Jun 2019 5:46
 Operator : JC/SP
 Sample : VN0608WBL04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 10 01:38:18 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N060419W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 04 11:02:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	313961	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	476534	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	447604	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	144482	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	166553	53.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.86%	
35) Dibromofluoromethane	7.59	113	145078	49.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.24%	
50) Toluene-d8	10.09	98	607674	54.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.02%	
62) 4-Bromofluorobenzene	12.40	95	189552	49.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.08%	

Target Compounds

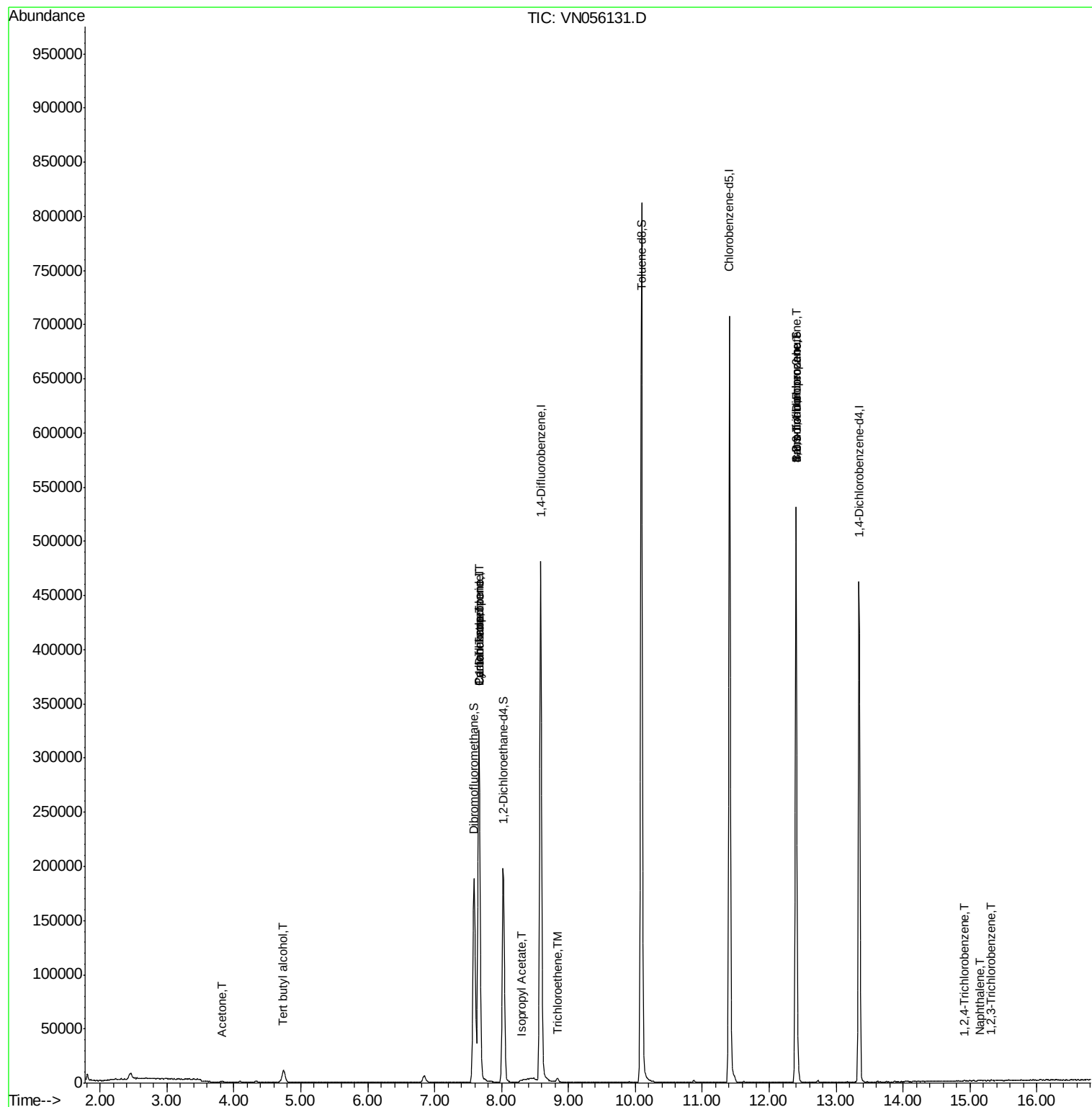
						Qvalue
11) Tert butyl alcohol	4.74	59	10114	18.644	ug/l #	74
16) Acetone	3.82	43	538	0.361	ug/l #	41
18) Methyl Acetate	4.32	43	643	Below Cal		97
31) Cyclohexane	7.66	56	4283	0.866	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	18404	4.491	ug/l #	48
38) Carbon Tetrachloride	7.66	117	25498	6.750	ug/l #	15
43) Isopropyl Acetate	8.30	43	1757	0.297	ug/l #	53
44) Trichloroethene	8.84	130	1389	0.388	ug/l	90
71) Bromoform	12.40	173	1335	3.231	ug/l #	1
73) Isopropylbenzene	12.26	105	32	Below Cal	#	48
76) 1,2,3-Trichloropropane	12.40	75	87191	32.797	ug/l #	100
79) 2-Chlorotoluene	12.68	91	29	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	87191	109.219	ug/l #	15
83) tert-Butylbenzene	12.99	119	99	Below Cal	#	28
93) 1,2,4-Trichlorobenzene	14.91	180	214	4.343	ug/l #	80
95) Naphthalene	15.14	128	698	3.945	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	220	3.107	ug/l #	66

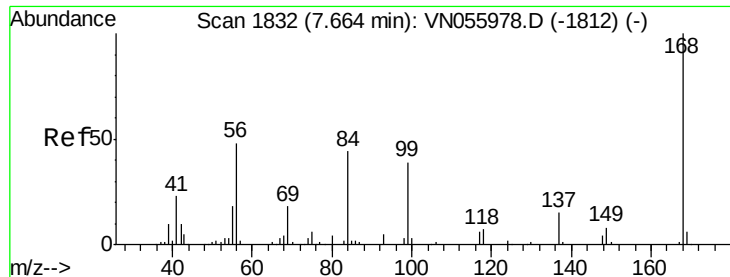
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 04 11:02:09 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: VN056131.D

Acq: 8 Jun 2019 5:46

Instrument :

MSVOA_N

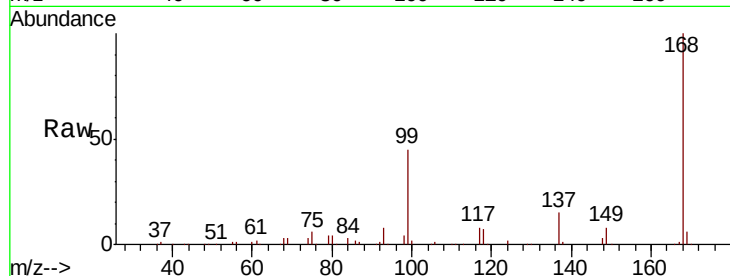
ClientSampled :

Tot Ion:168 Resp: 313961

Ion Ratio Lower Upper

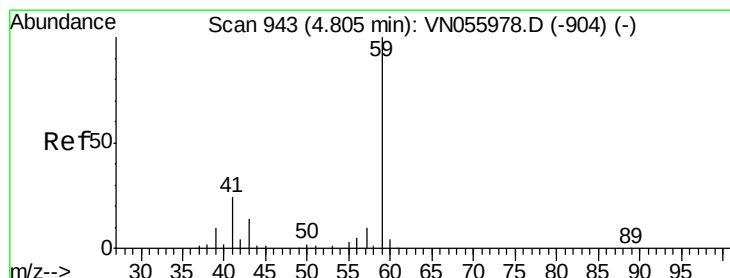
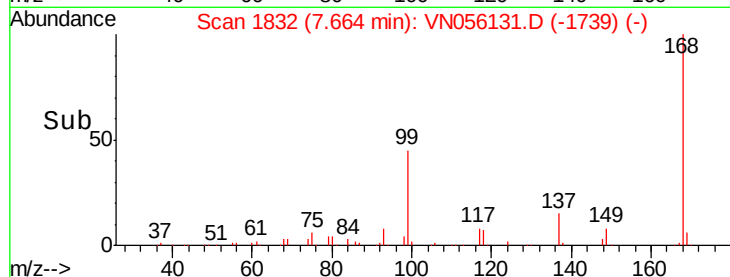
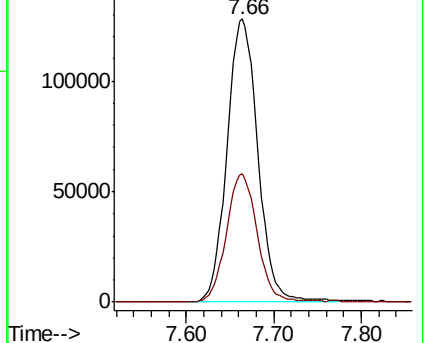
168 100

99 45.2 37.2 55.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 18.644 ug/l

RT: 4.74 min Scan# 923

Delta R.T. -0.06 min

Lab File: VN056131.D

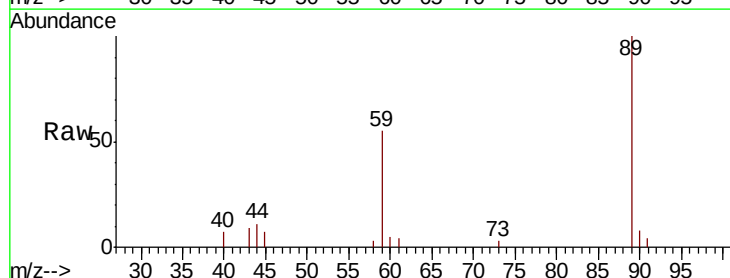
Acq: 8 Jun 2019 5:46

Tgt Ion: 59 Resp: 10114

Ion Ratio Lower Upper

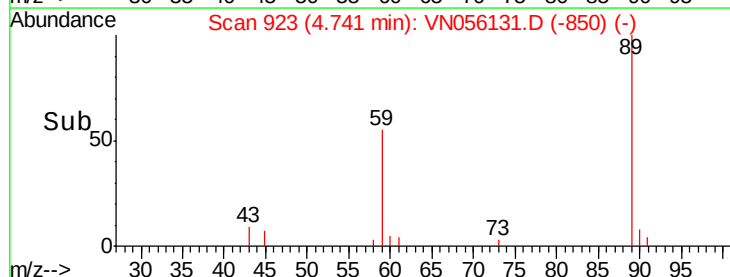
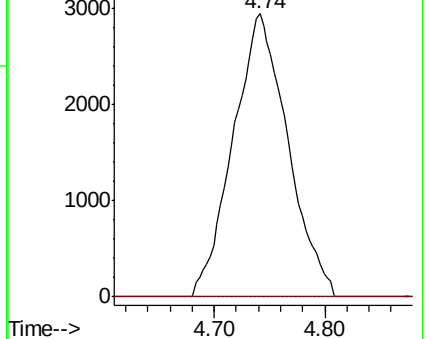
59 100

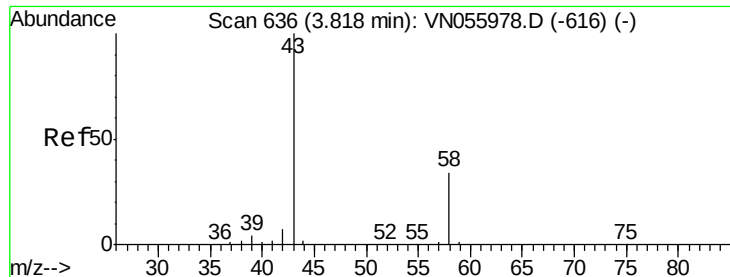
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 0.361 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN056131.D

Acq: 8 Jun 2019 5:46

Instrument :

MSVOA_N

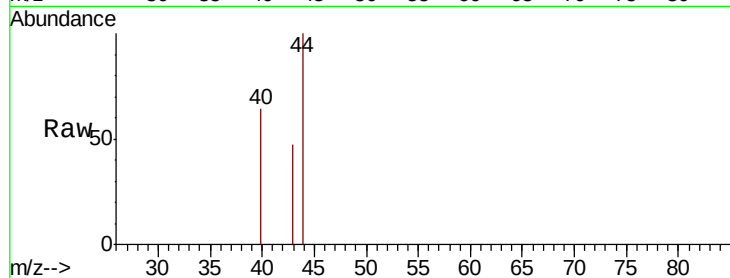
ClientSampled :

Tot Ion: 43 Resp: 538

Ion Ratio Lower Upper

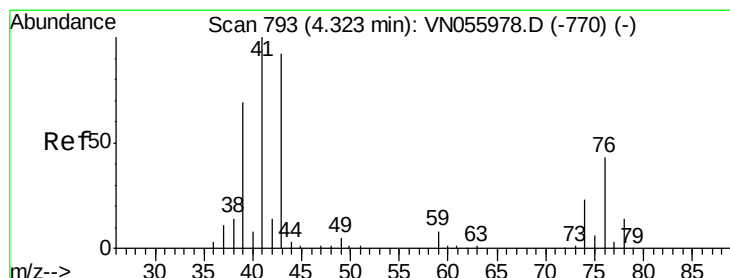
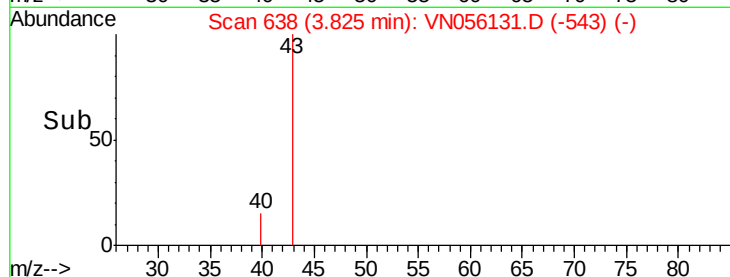
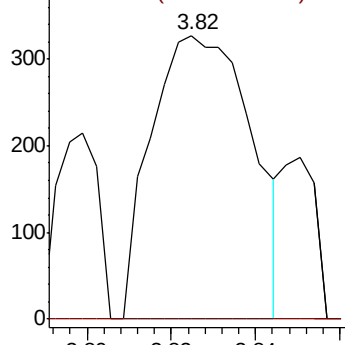
43 100

58 0.0 26.6 39.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.32 min Scan# 792

Delta R.T. -0.00 min

Lab File: VN056131.D

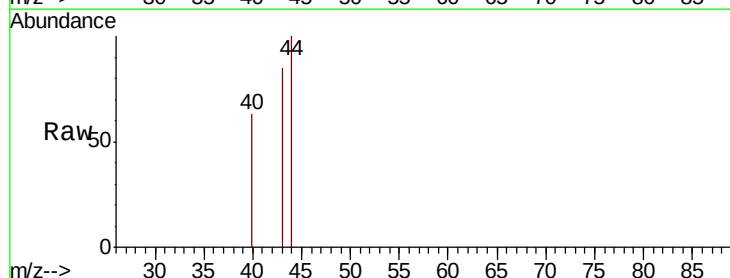
Acq: 8 Jun 2019 5:46

Tgt Ion: 43 Resp: 643

Ion Ratio Lower Upper

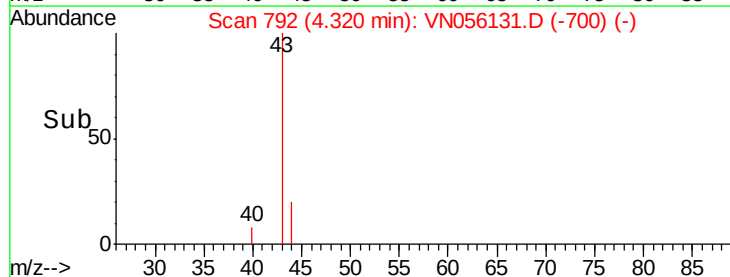
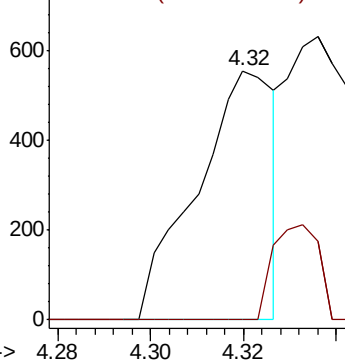
43 100

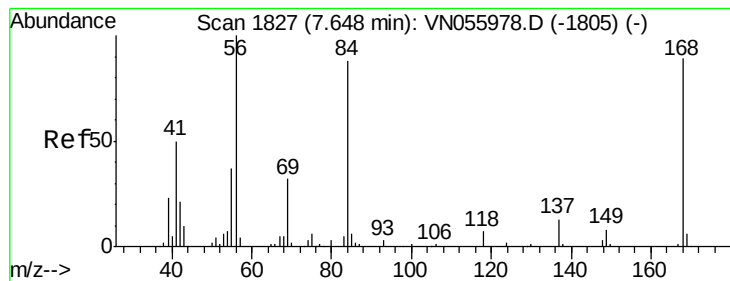
74 22.6 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#31

Cyclohexane

Concen: 0.866 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN056131.D

Acq: 8 Jun 2019 5:46

Instrument :

MSVOA_N

ClientSampled :

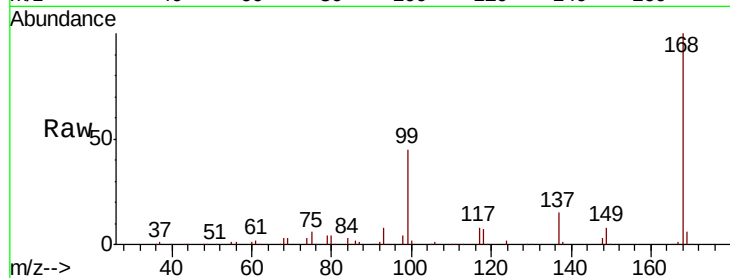
Tot Ion: 56 Resp: 4283

Ion Ratio Lower Upper

56 100

69 210.9 25.6 38.4#

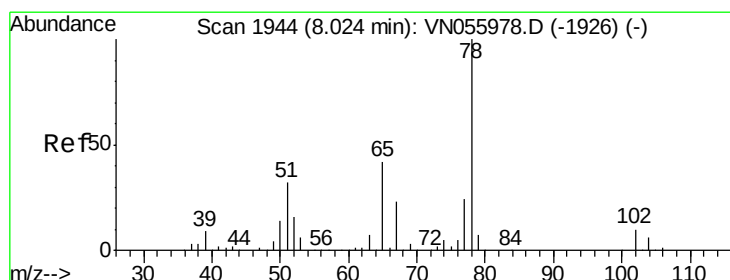
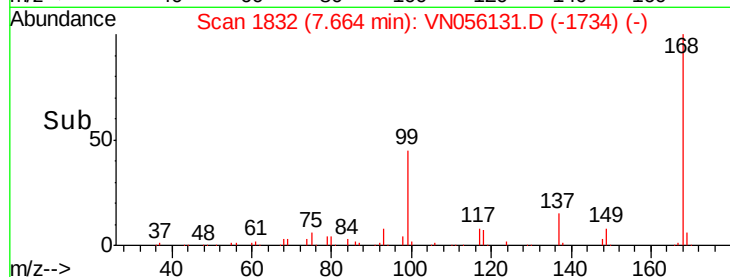
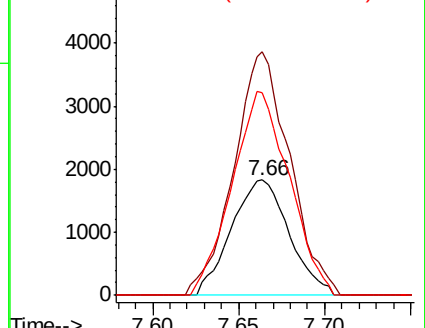
84 175.4 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VN055978.D (-1805) (-)

Ion 69.00 (68.70 to 69.70): VN055978.D (-1805) (-)

Ion 84.00 (83.70 to 84.70): VN055978.D (-1805) (-)



#33

1,2-Dichloroethane-d4

Concen: 53.427 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN056131.D

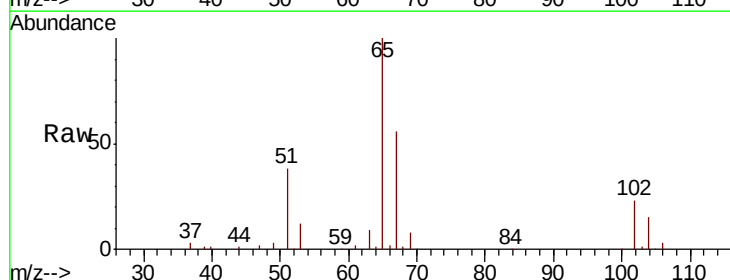
Acq: 8 Jun 2019 5:46

Tgt Ion: 65 Resp: 166553

Ion Ratio Lower Upper

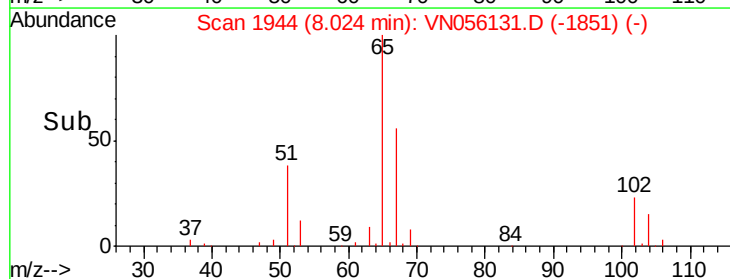
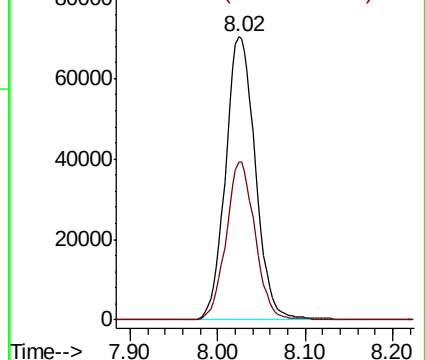
65 100

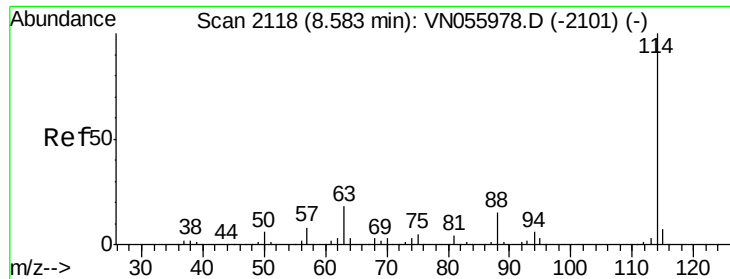
67 54.2 0.0 109.2



Abundance Ion 64.90 (64.60 to 65.60): VN055978.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN055978.D (-1926) (-)

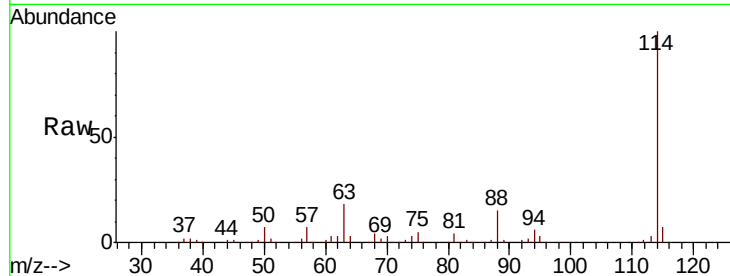




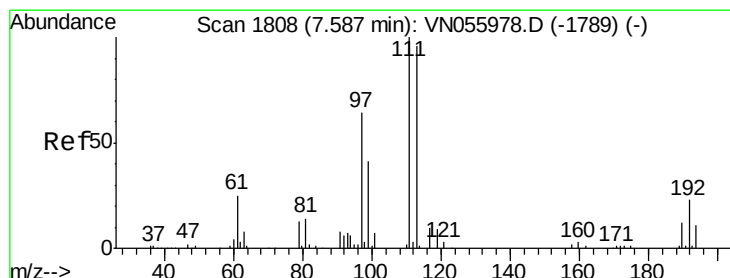
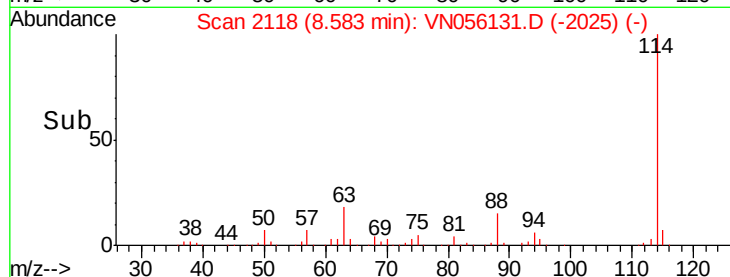
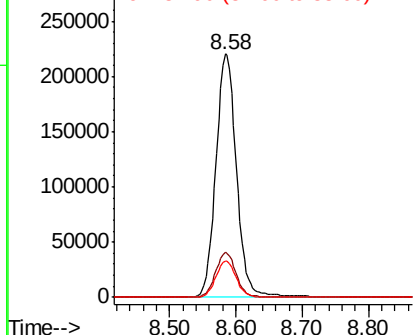
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN056131.D
Acq: 8 Jun 2019 5:46

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 476534
Ion Ratio Lower Upper
114 100
63 18.5 0.0 39.2
88 15.0 0.0 31.0

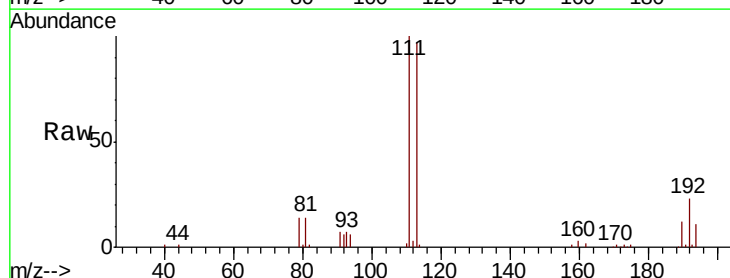


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

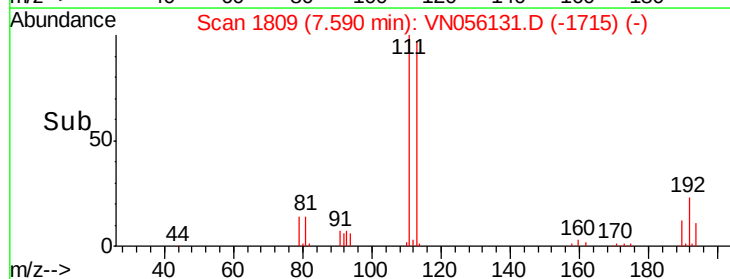
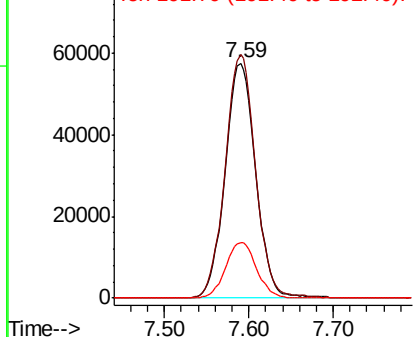


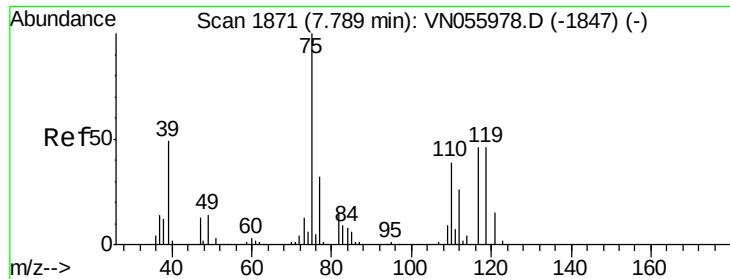
#35
Dibromofluoromethane
Concen: 49.621 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. 0.00 min
Lab File: VN056131.D
Acq: 8 Jun 2019 5:46

Tgt Ion:113 Resp: 145078
Ion Ratio Lower Upper
113 100
111 103.0 81.9 122.9
192 23.9 19.5 29.3



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

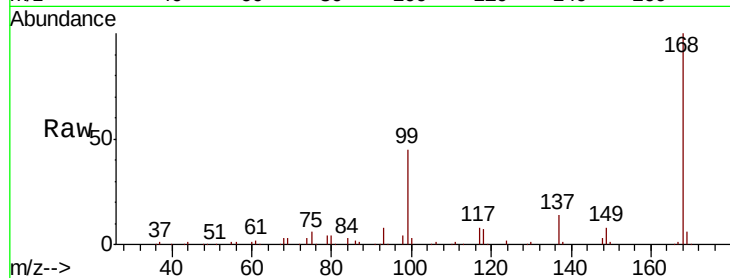




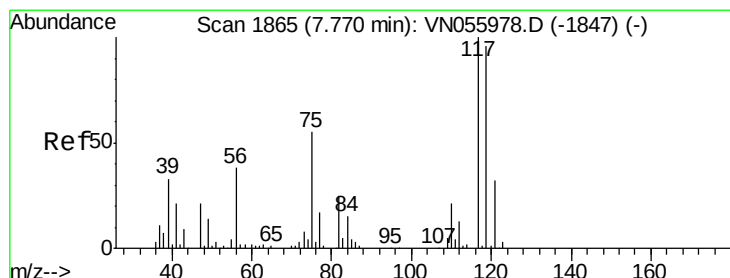
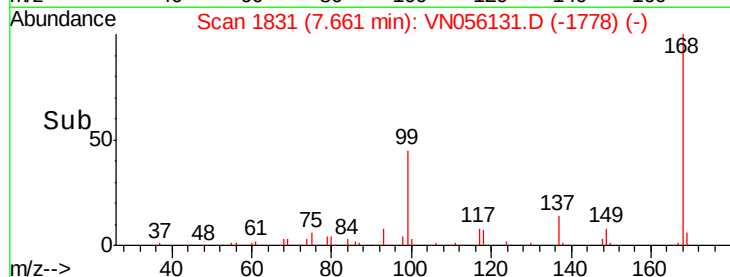
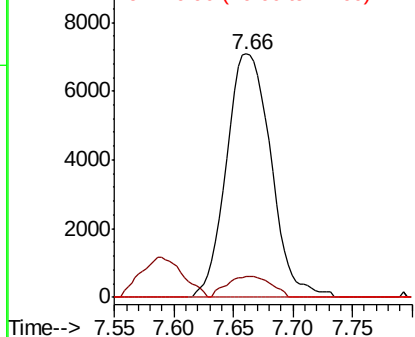
#36
 1,1-Dichloropropene
 Concen: 4.491 ug/l
 RT: 7.66 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN056131.D
 Acq: 8 Jun 2019 5:46

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion: 75 Resp: 18404
 Ion Ratio Lower Upper
 75 100
 110 8.5 19.0 57.0#
 77 0.0 25.1 37.7#

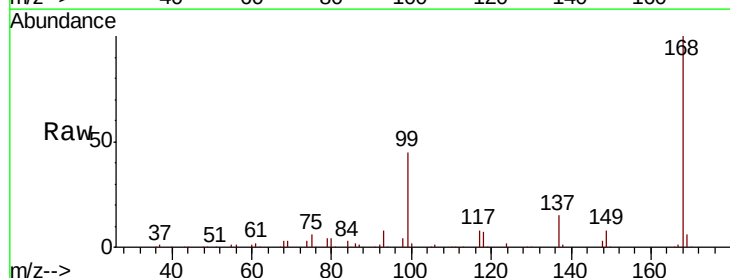


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

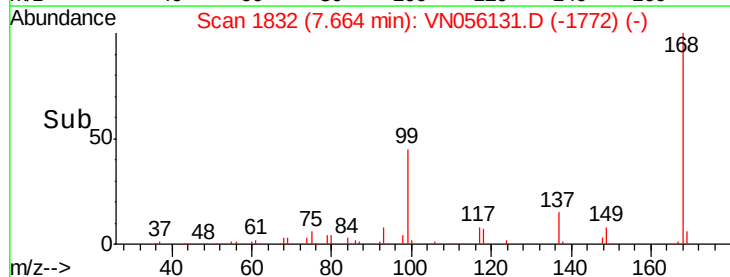
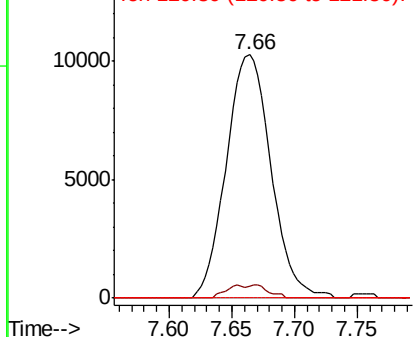


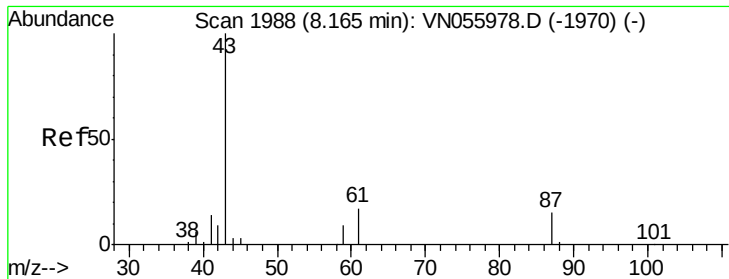
#38
 Carbon Tetrachloride
 Concen: 6.750 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN056131.D
 Acq: 8 Jun 2019 5:46

Tgt Ion: 117 Resp: 25498
 Ion Ratio Lower Upper
 117 100
 119 4.9 79.0 118.6#
 121 0.0 24.7 37.1#



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





#43

Isopropyl Acetate

Concen: 0.297 ug/l

RT: 8.30 min Scan# 2029

Delta R.T. 0.13 min

Lab File: VN056131.D

Acq: 8 Jun 2019 5:46

Instrument :

MSVOA_N

ClientSampled :

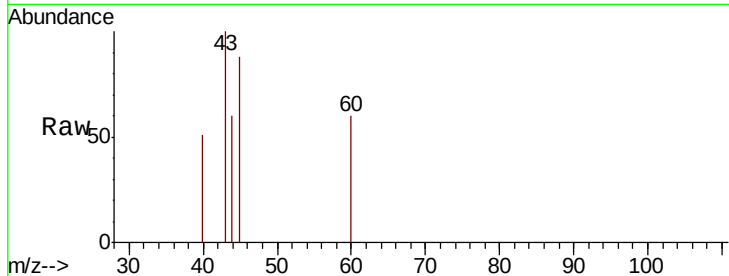
Tot Ion: 43 Resp: 1757

Ion Ratio Lower Upper

43 100

61 0.0 22.2 33.4#

87 0.0 11.4 17.2#



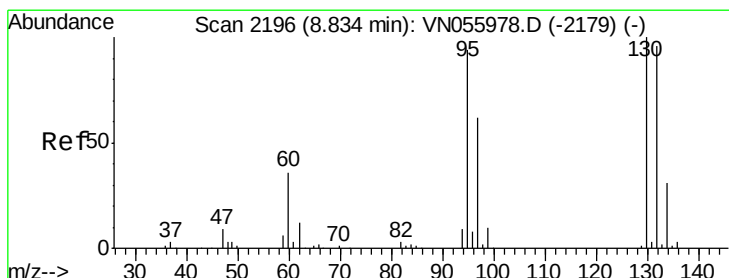
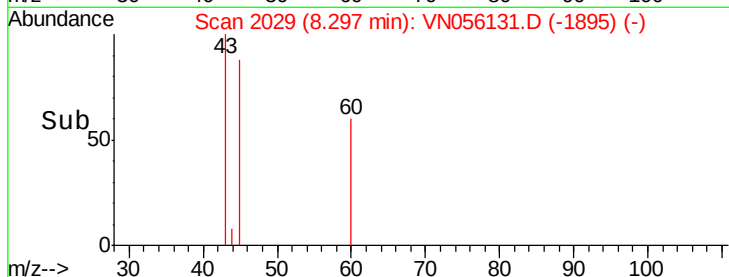
Abundance Ion 43.00 (42.70 to 43.70): VN055978.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN055978.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN055978.D (-1970) (-)

8.30

Time-->



#44

Trichloroethene

Concen: 0.388 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN056131.D

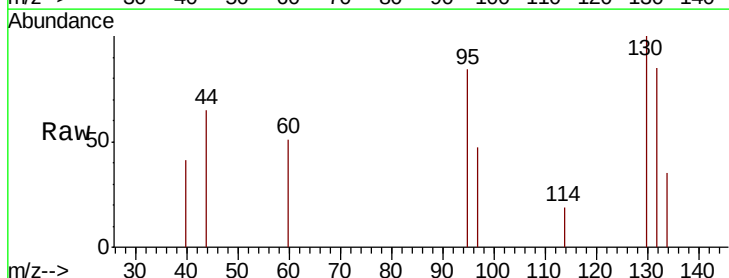
Acq: 8 Jun 2019 5:46

Tgt Ion: 130 Resp: 1389

Ion Ratio Lower Upper

130 100

95 84.4 0.0 188.0

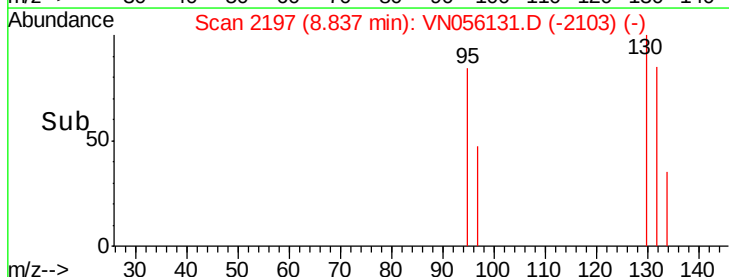


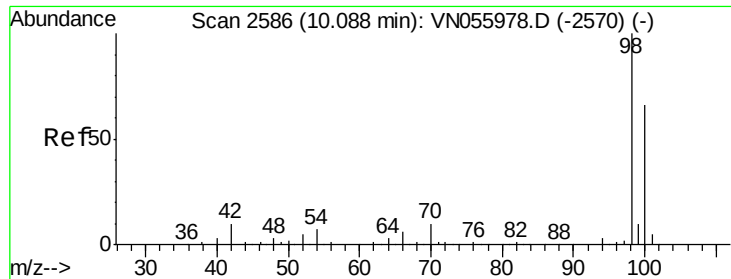
Abundance Ion 129.80 (129.50 to 130.50): VN055978.D (-2179) (-)

Ion 94.90 (94.60 to 95.60): VN055978.D (-2179) (-)

8.84

Time-->





#50

Toluene-d8

Concen: 54.014 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056131.D

Acq: 8 Jun 2019 5:46

Instrument :

MSVOA_N

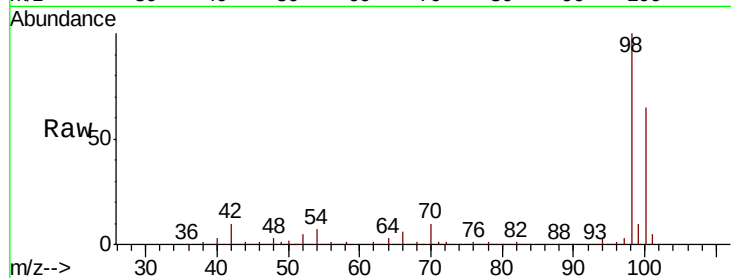
ClientSampled :

Tot Ion: 98 Resp: 607674

Ion Ratio Lower Upper

98 100

100 64.3 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN055978.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN055978.D (-2570) (-)

10.09

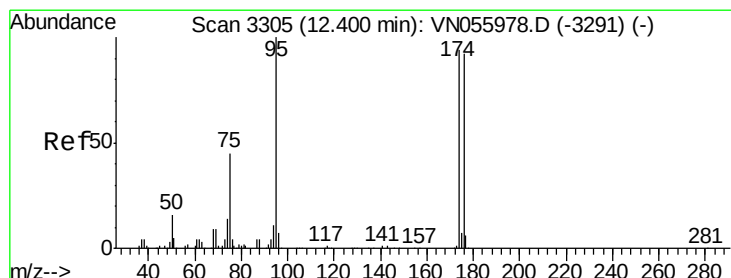
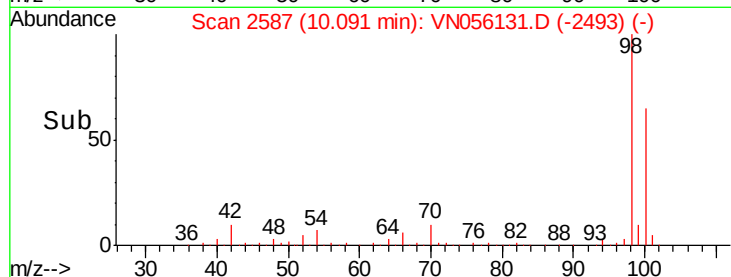
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 49.543 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056131.D

Acq: 8 Jun 2019 5:46

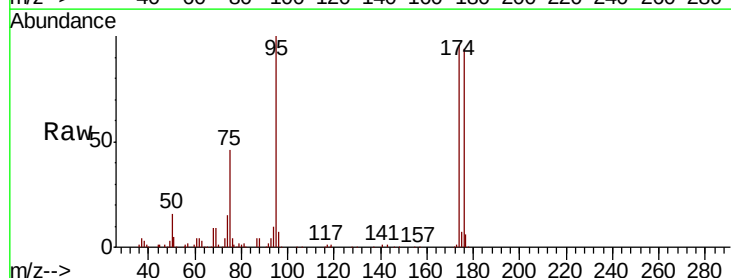
Tgt Ion: 95 Resp: 189552

Ion Ratio Lower Upper

95 100

174 95.9 0.0 191.0

176 93.8 0.0 185.2



Abundance Ion 94.90 (94.60 to 95.60): VN055978.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN055978.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN055978.D (-3291) (-)

12.40

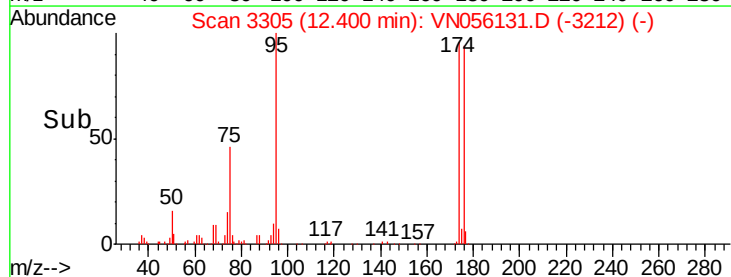
150000

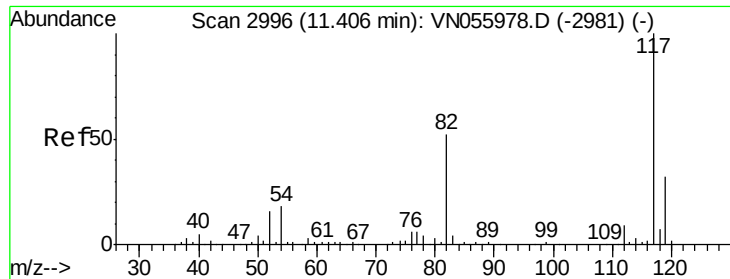
100000

50000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056131.D

Acq: 8 Jun 2019 5:46

Instrument :

MSVOA_N

ClientSampleId :

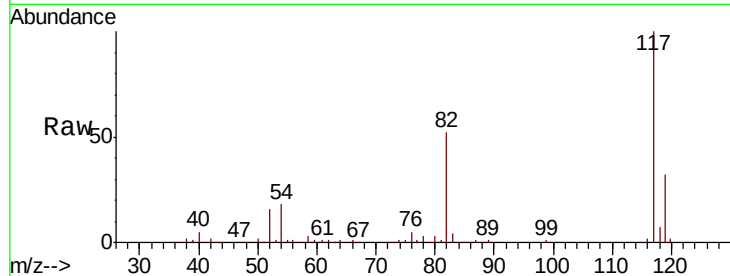
Tot Ion:117 Resp: 447604

Ion Ratio Lower Upper

117 100

82 52.3 41.8 62.8

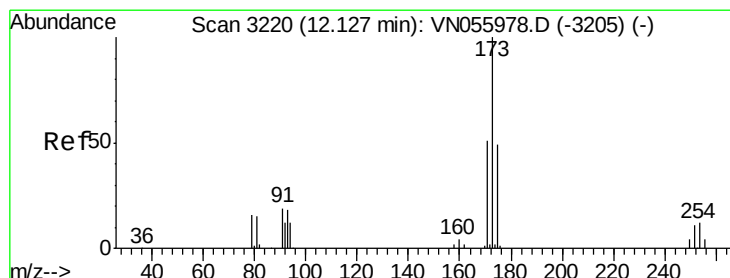
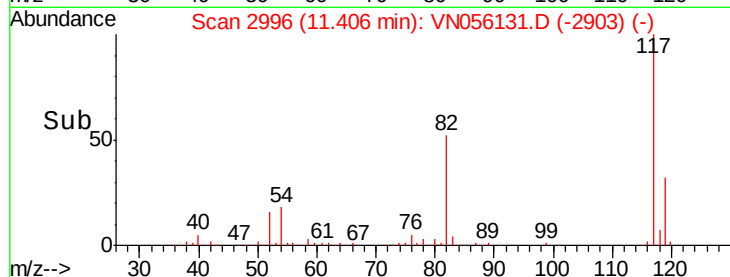
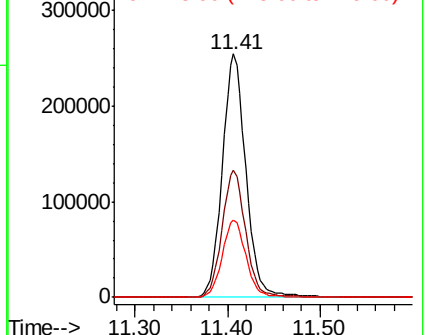
119 31.8 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 3.231 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN056131.D

Acq: 8 Jun 2019 5:46

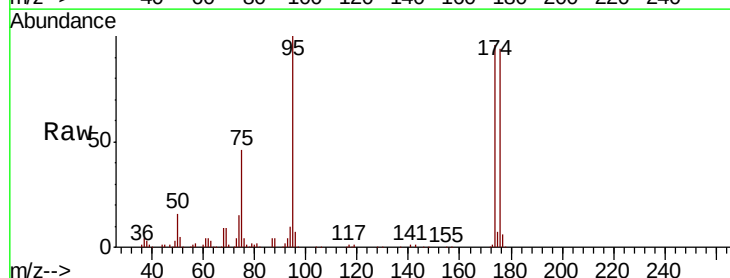
Tgt Ion:173 Resp: 1335

Ion Ratio Lower Upper

173 100

175 838.9 24.3 72.8#

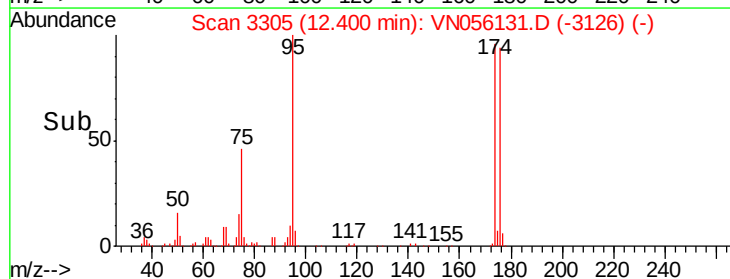
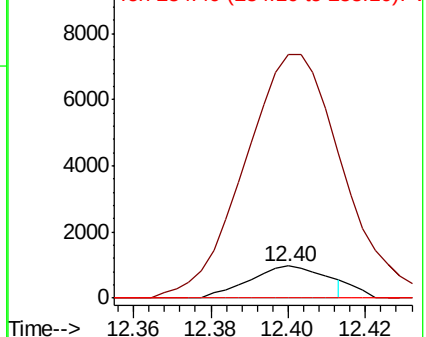
254 0.0 0.0 0.0

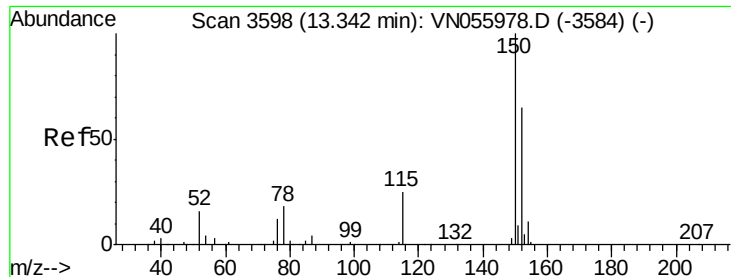


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



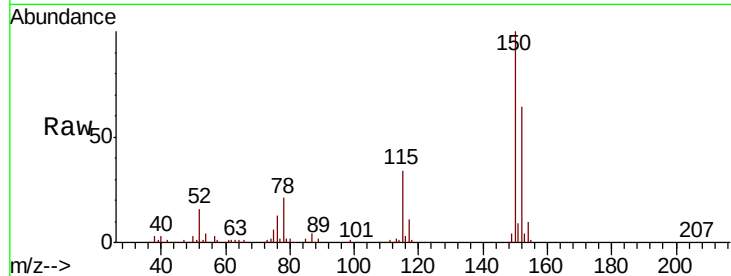


#72

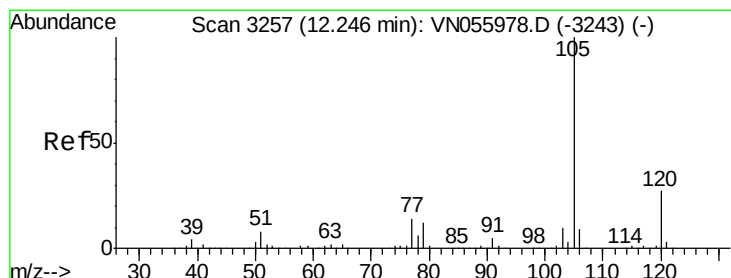
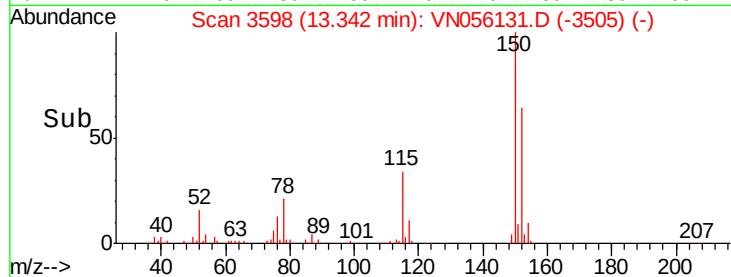
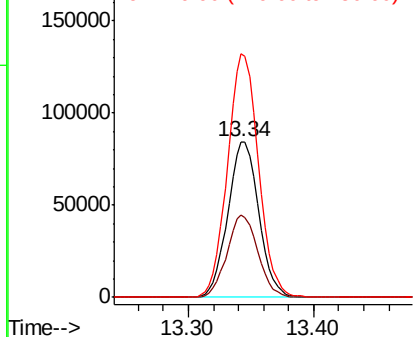
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN056131.D
Acq: 8 Jun 2019 5:46

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:152 Resp: 144482
Ion Ratio Lower Upper
152 100
115 52.7 27.0 81.0
150 156.6 0.0 343.2



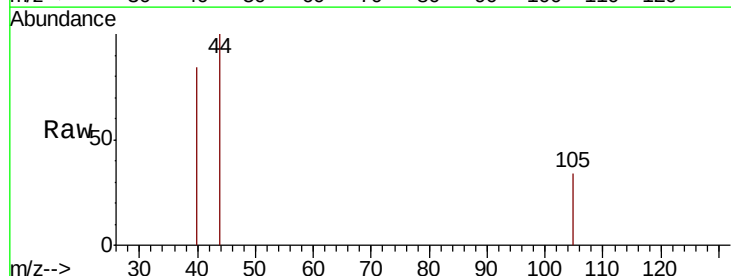
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



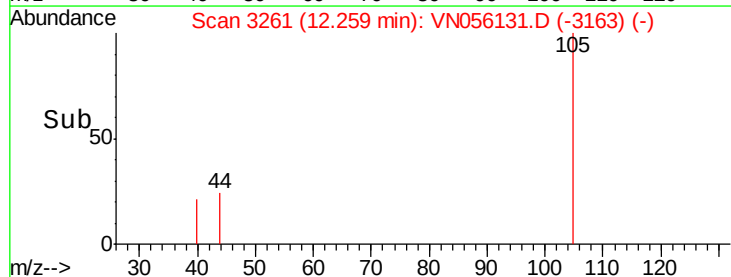
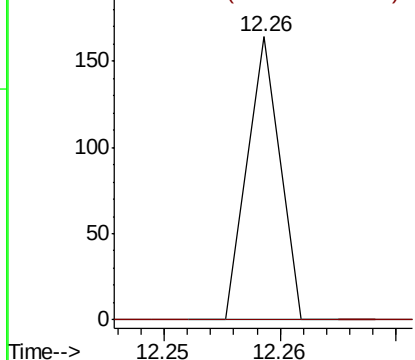
#73

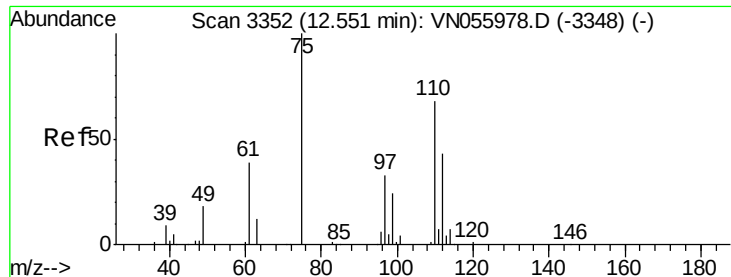
Isopropylbenzene
Concen: Below Cal
RT: 12.26 min Scan# 3261
Delta R.T. 0.01 min
Lab File: VN056131.D
Acq: 8 Jun 2019 5:46

Tgt Ion:105 Resp: 32
Ion Ratio Lower Upper
105 100
120 0.0 13.6 40.7#



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#76

1,2,3-Trichloropropane

Concen: 32.797 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056131.D

Acq: 8 Jun 2019 5:46

Instrument :

MSVOA_N

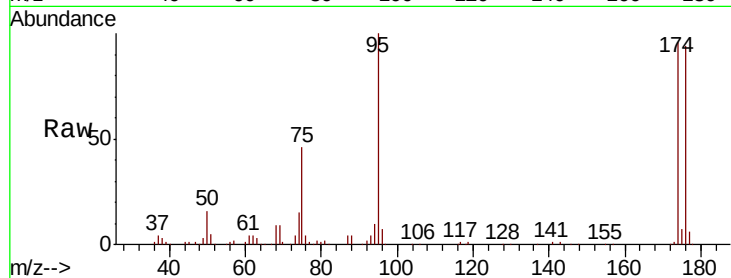
ClientSampled :

Tot Ion: 75 Resp: 87191

Ion Ratio Lower Upper

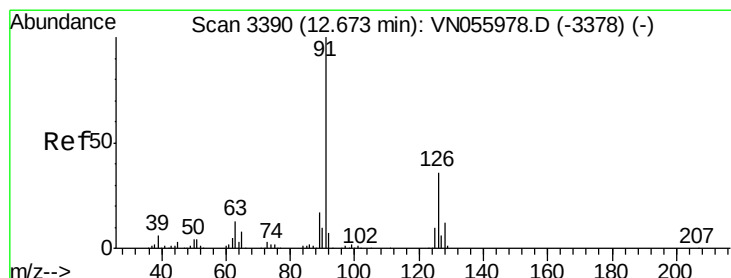
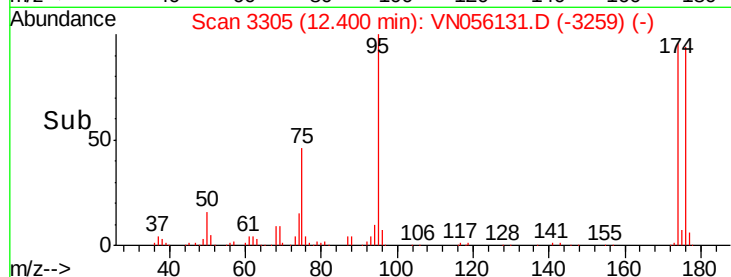
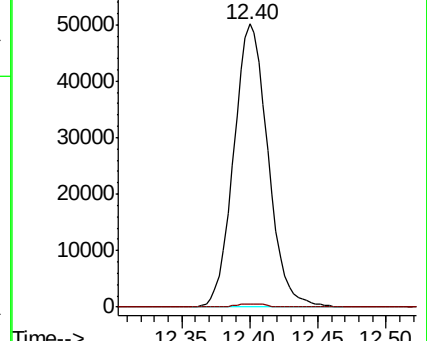
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.68 min Scan# 3392

Delta R.T. 0.01 min

Lab File: VN056131.D

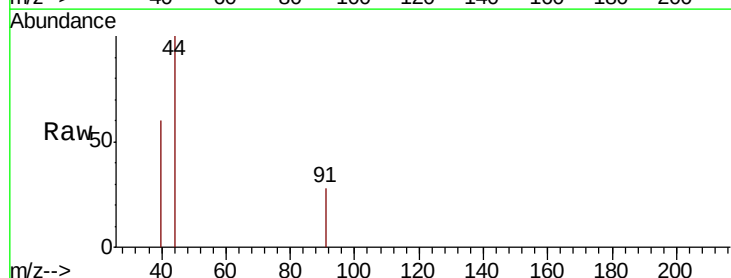
Acq: 8 Jun 2019 5:46

Tgt Ion: 91 Resp: 29

Ion Ratio Lower Upper

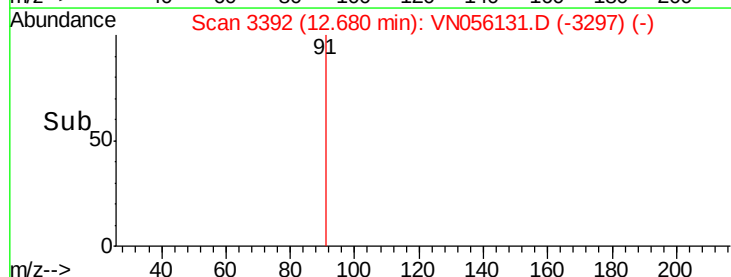
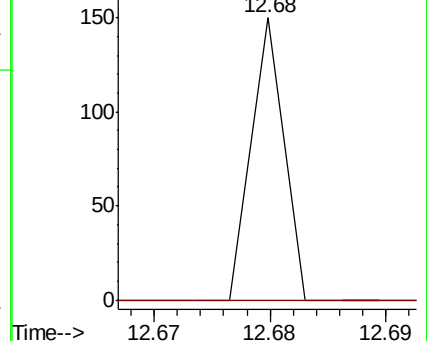
91 100

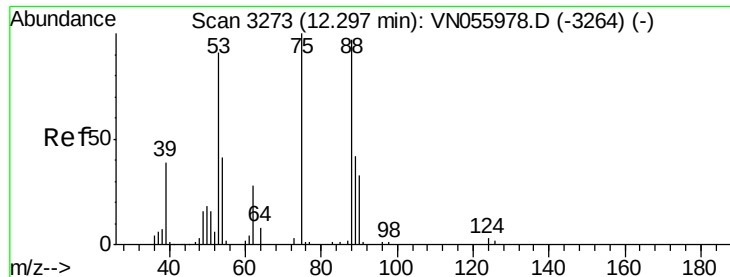
126 0.0 18.1 54.4#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#81

trans-1,4-Dichloro-2-butene

Concen: 109.219 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056131.D

Acq: 8 Jun 2019 5:46

Instrument :

MSVOA_N

ClientSampleId :

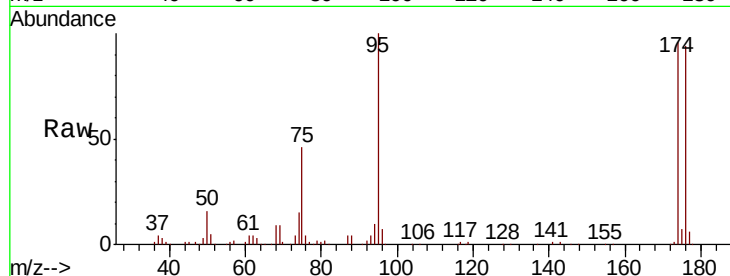
Tot Ion: 75 Resp: 87191

Ion Ratio Lower Upper

75 100

53 0.0 68.1 102.1#

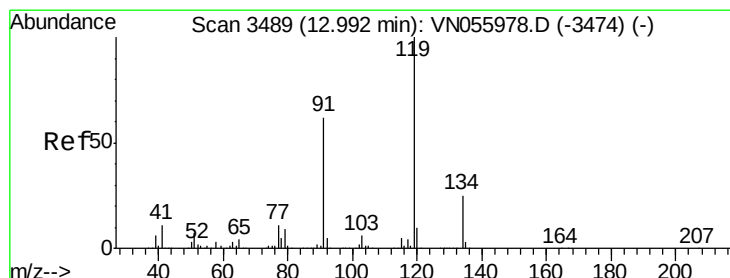
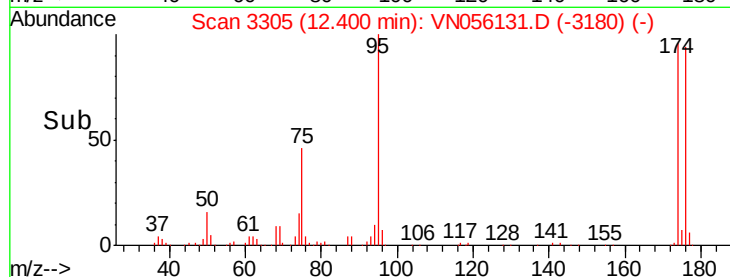
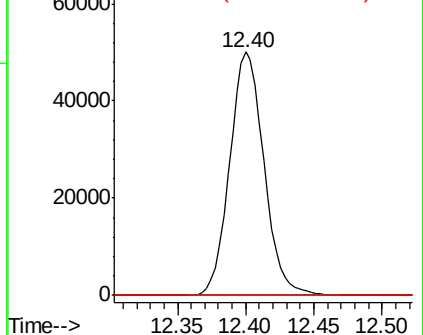
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN055978.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN055978.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN055978.D (-3264) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN056131.D

Acq: 8 Jun 2019 5:46

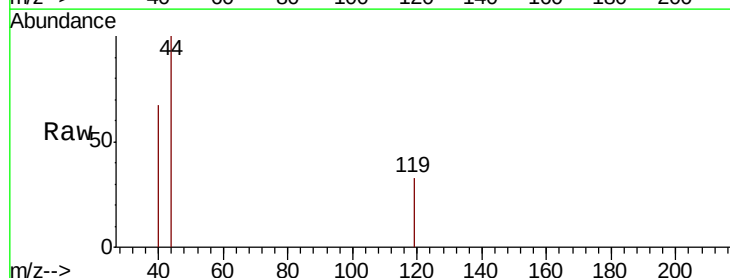
Tgt Ion: 119 Resp: 99

Ion Ratio Lower Upper

119 100

91 0.0 30.9 92.8#

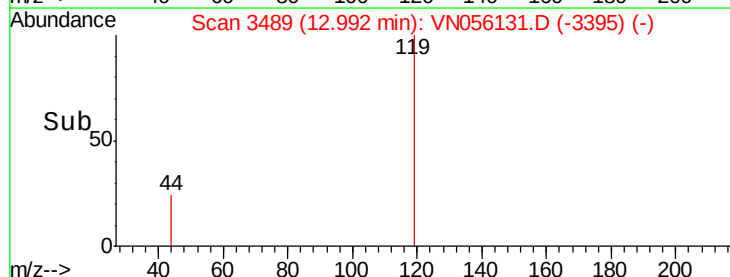
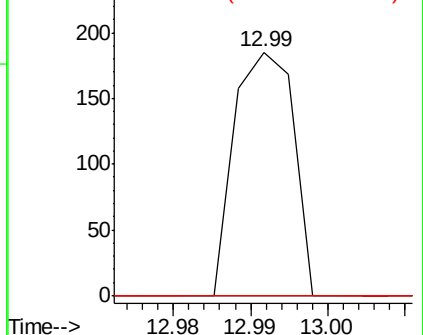
134 0.0 13.3 39.8#

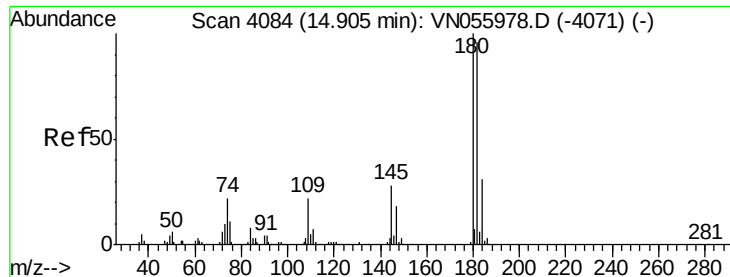


Abundance Ion 119.00 (118.70 to 119.70): VN055978.D (-3474) (-)

Ion 91.00 (90.70 to 91.70): VN055978.D (-3474) (-)

Ion 134.00 (133.70 to 134.70): VN055978.D (-3474) (-)

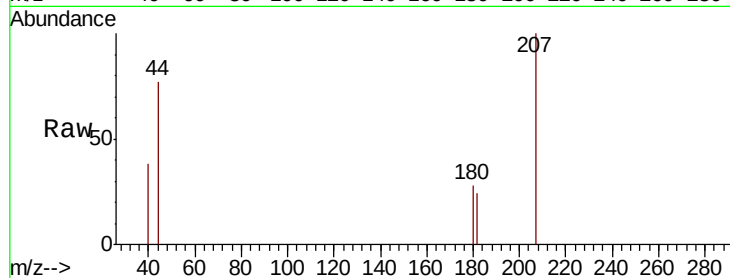




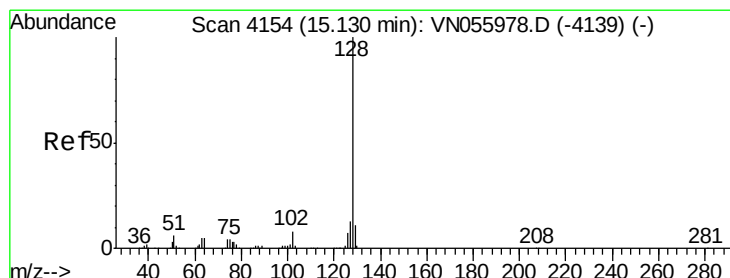
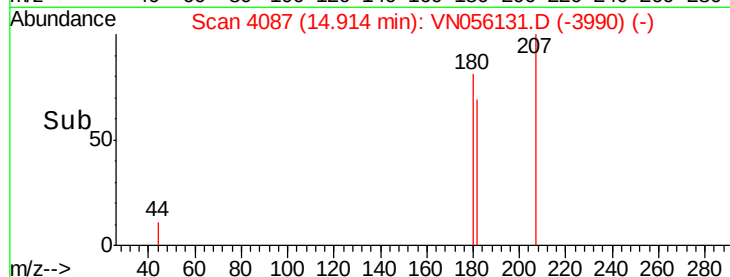
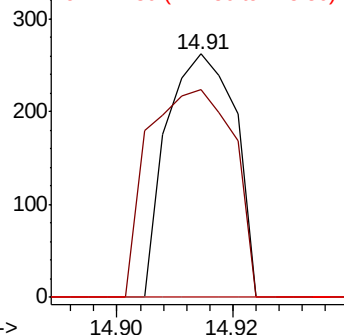
#93
 1,2,4-Trichlorobenzene
 Concen: 4.343 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN056131.D
 Acq: 8 Jun 2019 5:46

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 214
 Ion Ratio Lower Upper
 180 100
 182 106.5 48.3 144.9
 145 0.0 14.0 41.9#

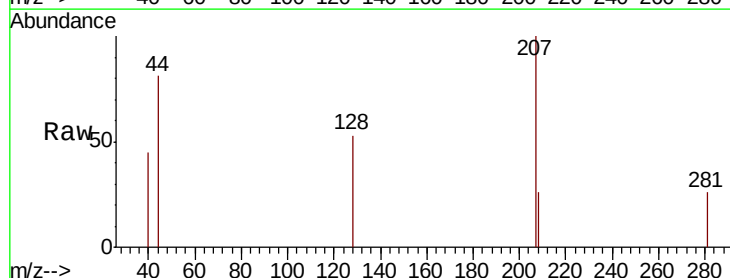


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

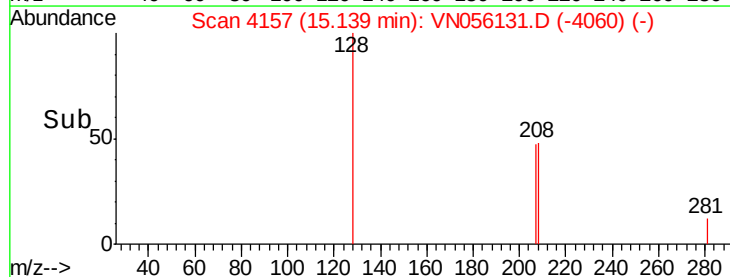
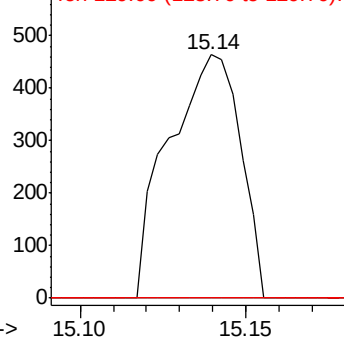


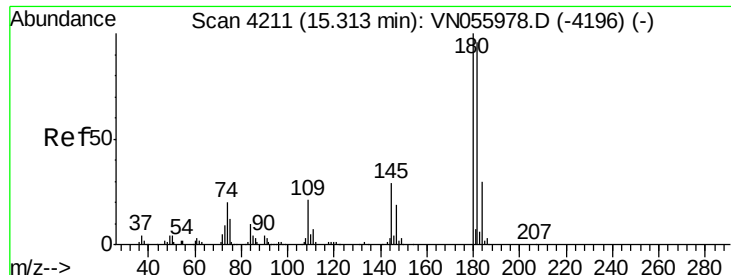
#95
 Naphthalene
 Concen: 3.945 ug/l
 RT: 15.14 min Scan# 4157
 Delta R.T. 0.01 min
 Lab File: VN056131.D
 Acq: 8 Jun 2019 5:46

Tgt Ion:128 Resp: 698
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

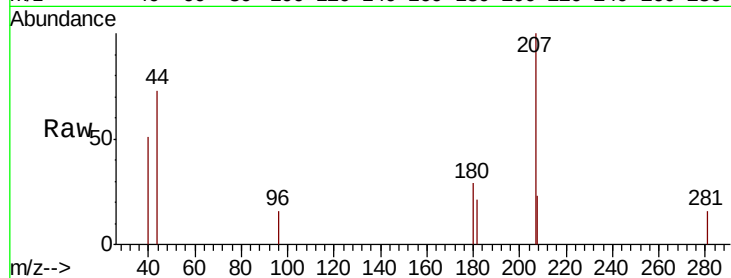




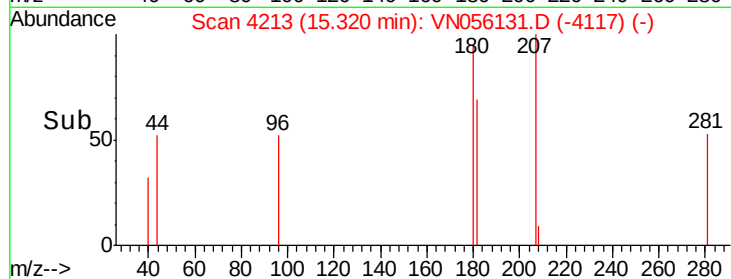
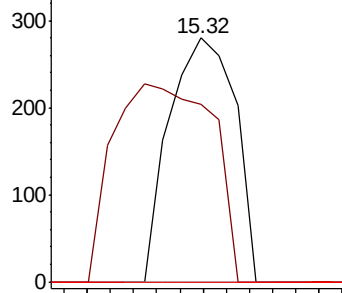
#96
 1,2,3-Trichlorobenzene
 Concen: 3.107 ug/l
 RT: 15.32 min Scan# 4213
 Delta R.T. 0.01 min
 Lab File: VN056131.D
 Acq: 8 Jun 2019 5:46

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	123.2	47.9	143.7
145	0.0	14.9	44.7#



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V



Time-->