

Data File : VN057053.D
Acq On : 2 Aug 2019 10:03
Operator : JC/SP
Sample : K4118-21
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
SA-PZ133I-20190731

Quant Time: Aug 03 04:20:22 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
Quant Title : SW846 8260
QLast Update : Sat Jul 27 01:33:29 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	571026	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	825185	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	672822	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	174798	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	318253	54.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.90%	
35) Dibromofluoromethane	7.58	113	292575	55.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.78%	
50) Toluene-d8	10.08	98	1093269	54.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.54%	
62) 4-Bromofluorobenzene	12.40	95	276779	42.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.40%	

Target Compounds

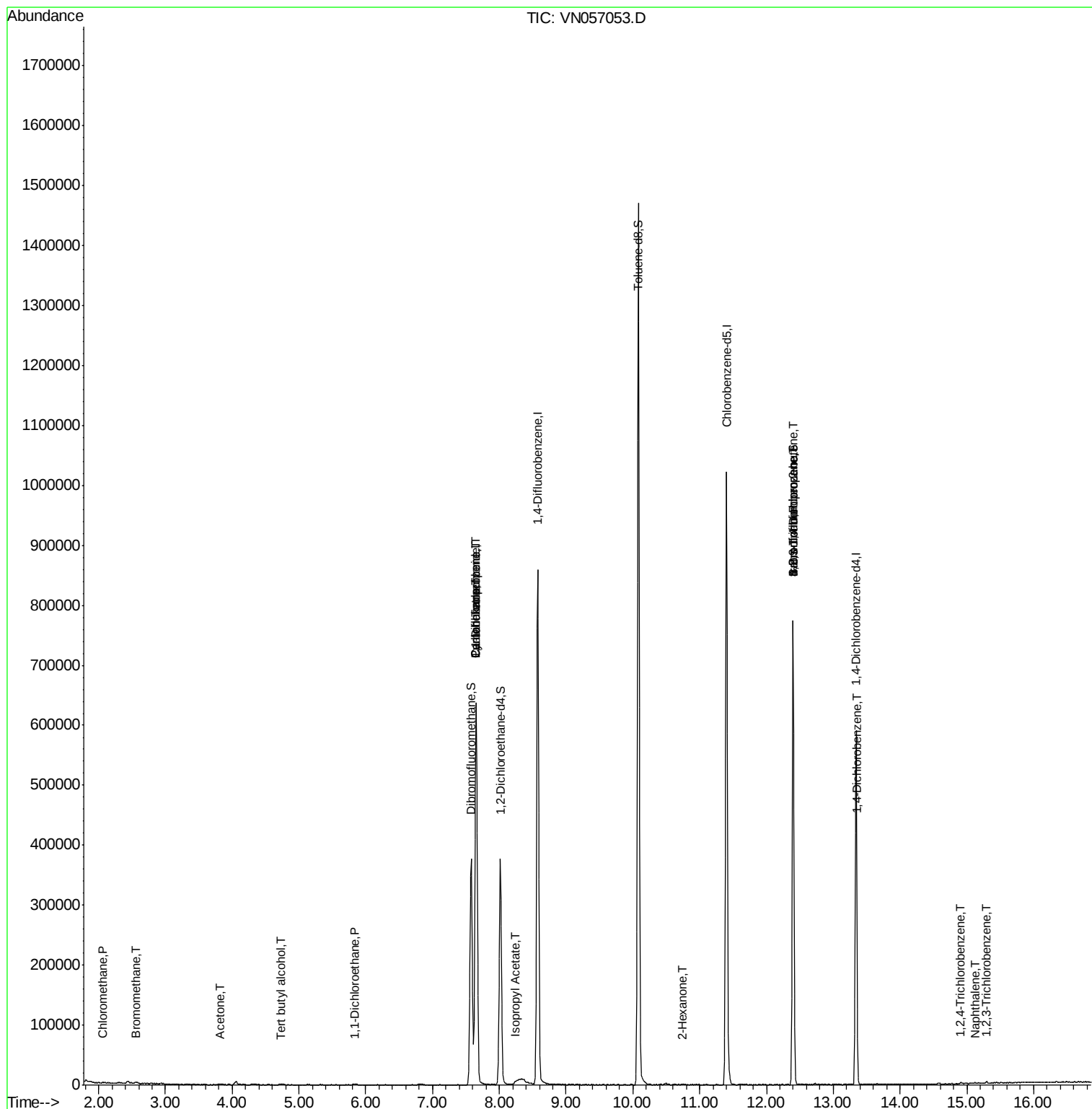
						Qvalue
3) Chloromethane	2.05	50	1671	0.242	ug/l	89
5) Bromomethane	2.57	94	980	0.243	ug/l	85
11) Tert butyl alcohol	4.73	59	911	1.153	ug/l #	74
16) Acetone	3.82	43	2722	1.285	ug/l	98
24) 1,1-Dichloroethane	5.83	63	2762	0.278	ug/l #	84
31) Cyclohexane	7.65	56	8378	0.872	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	36496	5.026	ug/l #	49
38) Carbon Tetrachloride	7.65	117	47714	6.947	ug/l #	17
43) Isopropyl Acetate	8.24	43	2718	0.283	ug/l #	52
59) 2-Hexanone	10.75	43	187	2.542	ug/l #	23
71) Bromoform	12.40	173	2390	0.663	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	128380	36.165	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	128380	116.197	ug/l #	15
88) 1,4-Dichlorobenzene	13.36	146	1300	0.225	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	1339	3.127	ug/l	90
95) Naphthalene	15.12	128	1729	3.804	ug/l #	72
96) 1,2,3-Trichlorobenzene	15.30	180	1140	2.405	ug/l #	83

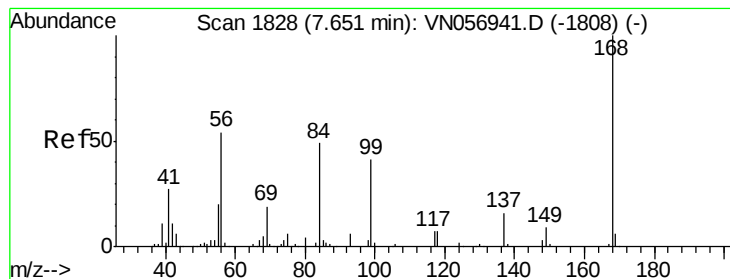
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057053.D

Acq: 2 Aug 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

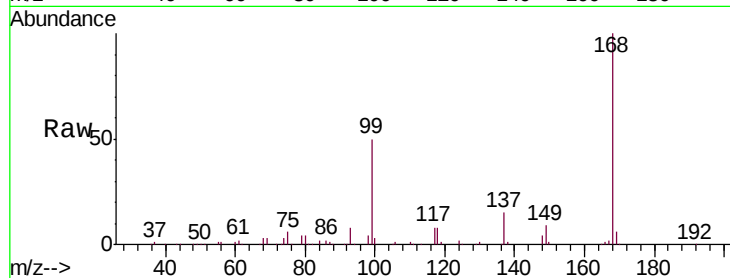
SA-PZ133I-20190731

Tgt Ion:168 Resp: 571026

Ion Ratio Lower Upper

168 100

99 49.8 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

250000

200000

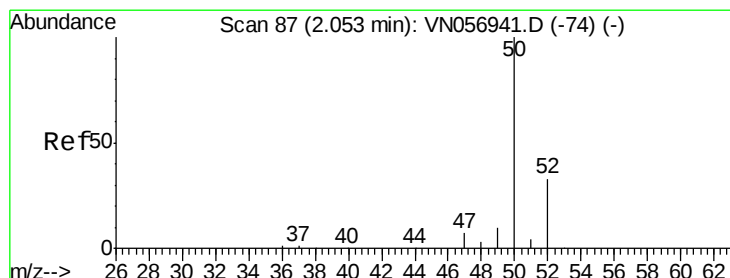
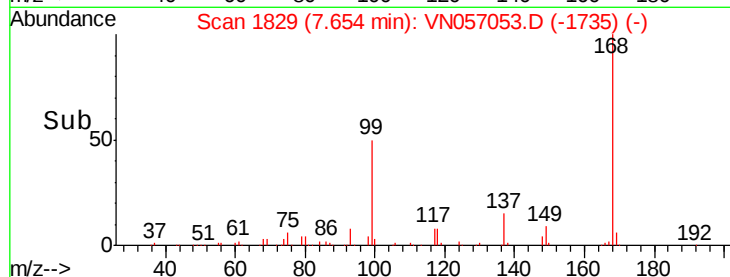
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.242 ug/l

RT: 2.05 min Scan# 86

Delta R.T. -0.00 min

Lab File: VN057053.D

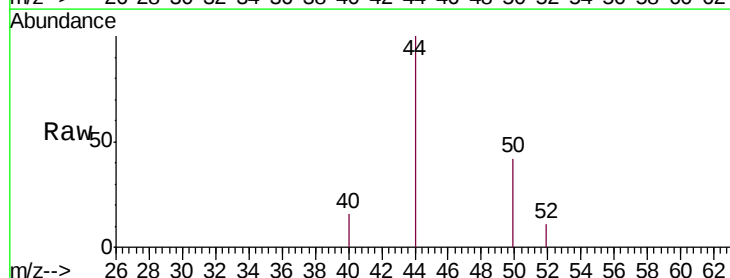
Acq: 2 Aug 2019 10:03

Tgt Ion: 50 Resp: 1671

Ion Ratio Lower Upper

50 100

52 26.5 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.05

1200

1000

800

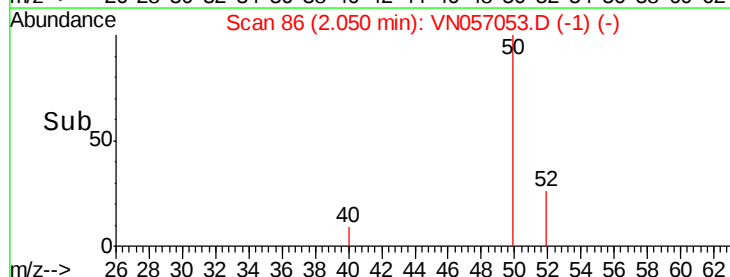
600

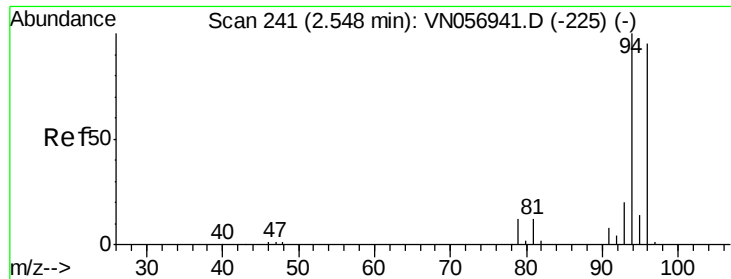
400

200

0

Time-->





#5

Bromomethane

Concen: 0.243 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.02 min

Lab File: VN057053.D

Acq: 2 Aug 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

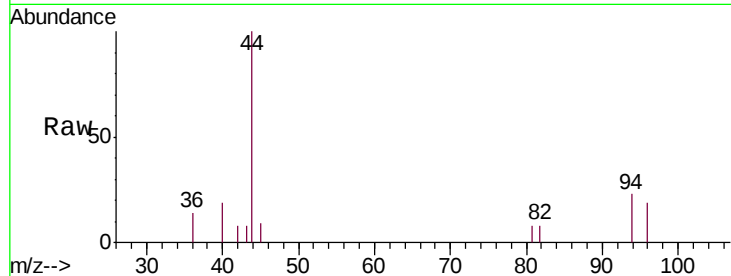
SA-PZ133I-20190731

Tgt Ion: 94 Resp: 980

Ion Ratio Lower Upper

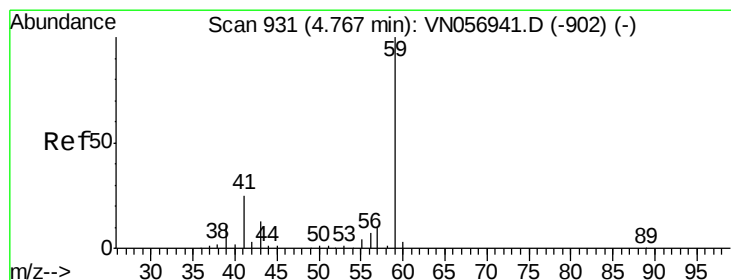
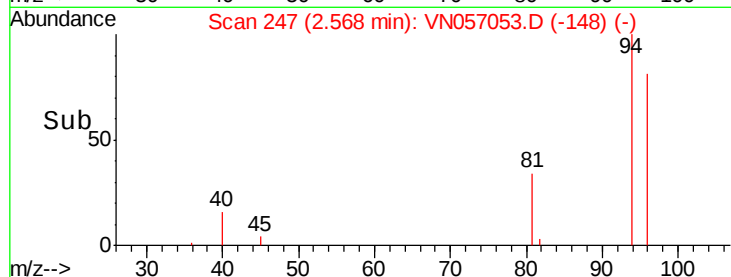
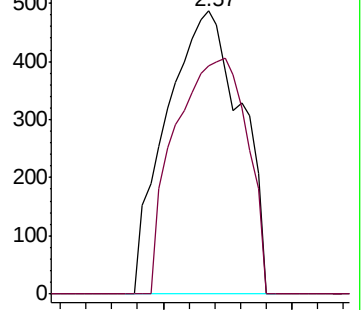
94 100

96 80.7 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#11

Tert butyl alcohol

Concen: 1.153 ug/l

RT: 4.73 min Scan# 919

Delta R.T. -0.04 min

Lab File: VN057053.D

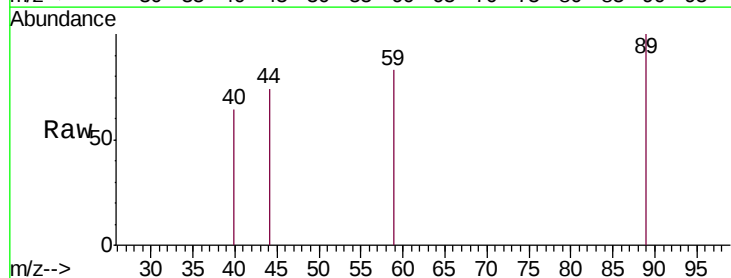
Acq: 2 Aug 2019 10:03

Tgt Ion: 59 Resp: 911

Ion Ratio Lower Upper

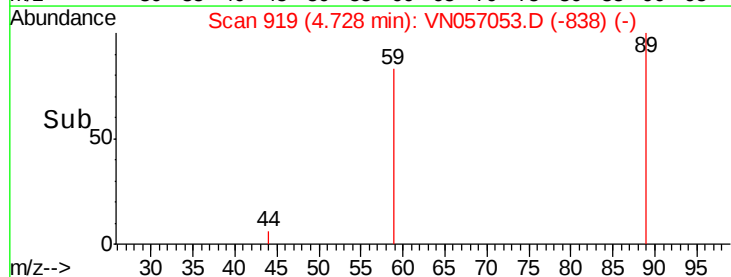
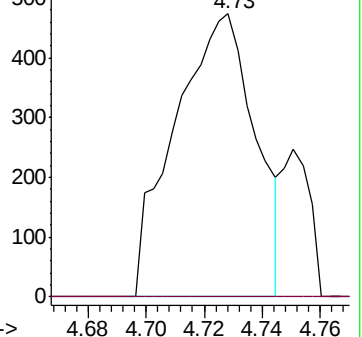
59 100

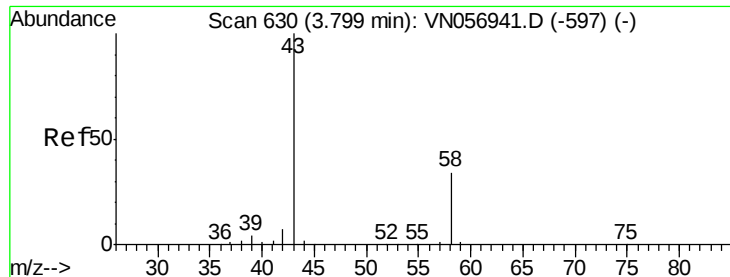
57 0.0 7.5 11.3#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 1.285 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.02 min

Lab File: VN057053.D

Acq: 2 Aug 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

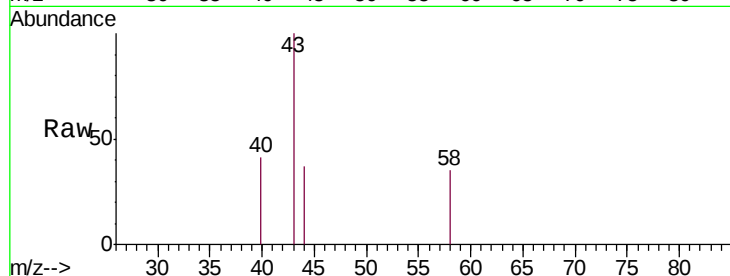
SA-PZ133I-20190731

Tgt Ion: 43 Resp: 2722

Ion Ratio Lower Upper

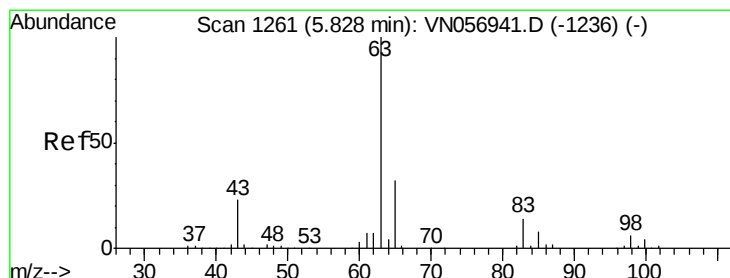
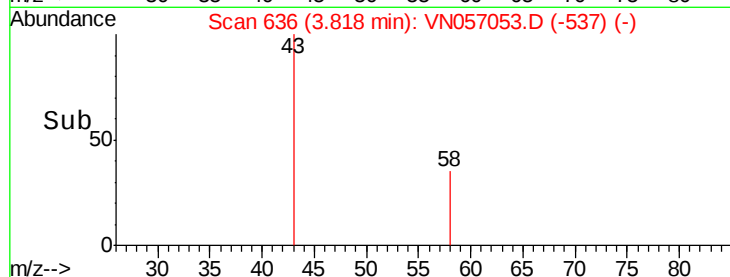
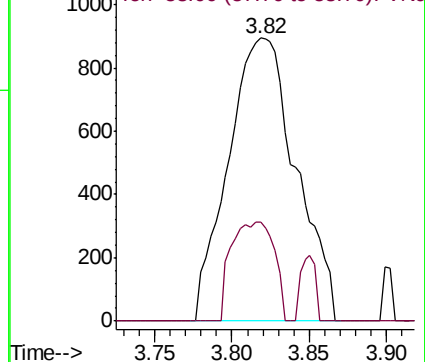
43 100

58 35.1 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN056941.D (-597) (-)

Ion 58.00 (57.70 to 58.70): VN056941.D (-597) (-)



#24

1,1-Dichloroethane

Concen: 0.278 ug/l

RT: 5.83 min Scan# 1262

Delta R.T. 0.00 min

Lab File: VN057053.D

Acq: 2 Aug 2019 10:03

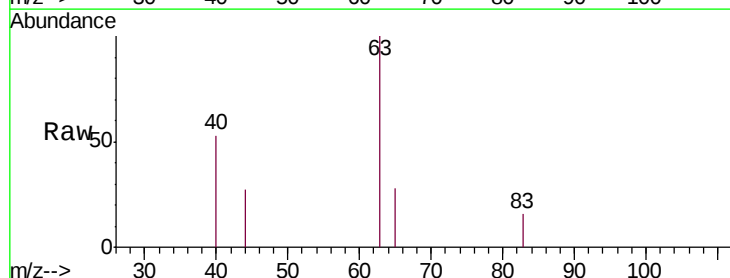
Tgt Ion: 63 Resp: 2762

Ion Ratio Lower Upper

63 100

98 0.0 3.2 9.6#

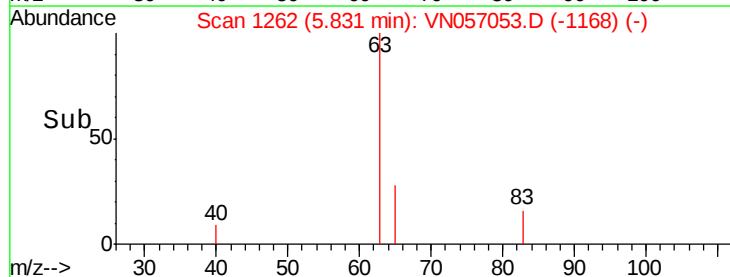
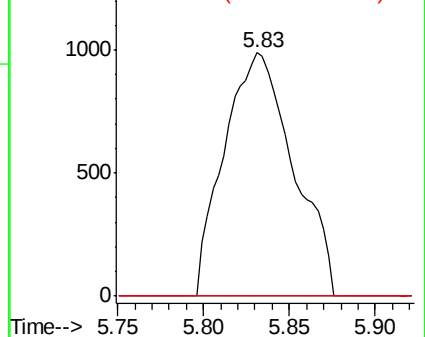
100 0.0 2.1 6.3#

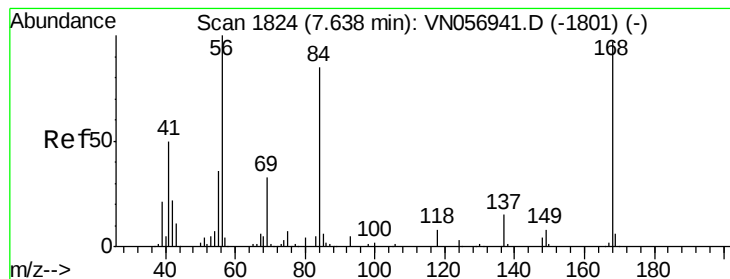


Abundance Ion 62.90 (62.60 to 63.60): VN056941.D (-1236) (-)

Ion 97.90 (97.60 to 98.60): VN056941.D (-1236) (-)

Ion 99.90 (99.60 to 100.60): VN056941.D (-1236) (-)





#31

Cyclohexane

Concen: 0.872 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057053.D

Acq: 2 Aug 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ133I-20190731

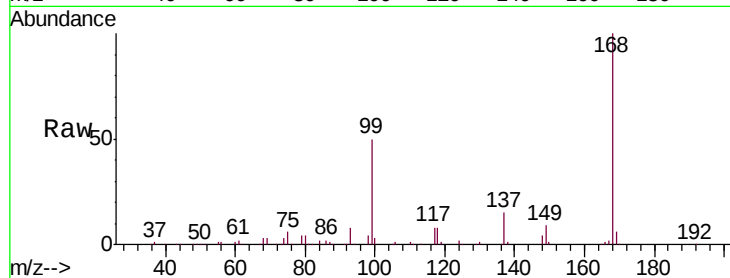
Tgt Ion: 56 Resp: 8378

Ion Ratio Lower Upper

56 100

69 213.4 26.2 39.2#

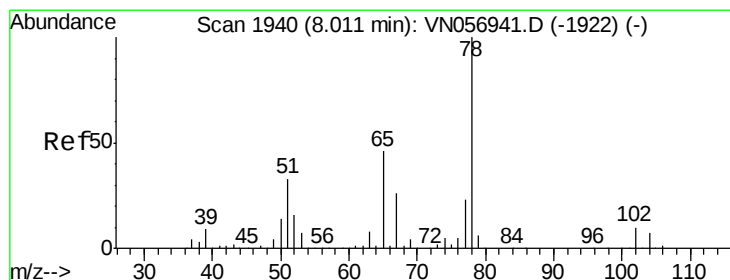
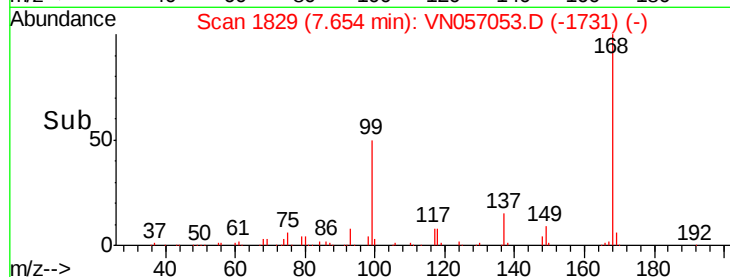
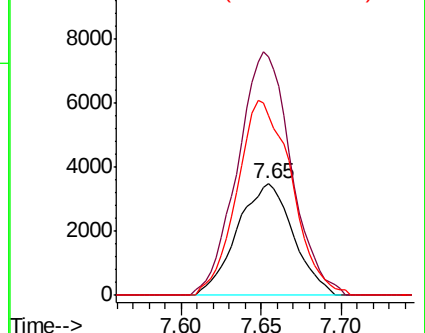
84 160.6 68.2 102.2#



Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 54.446 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057053.D

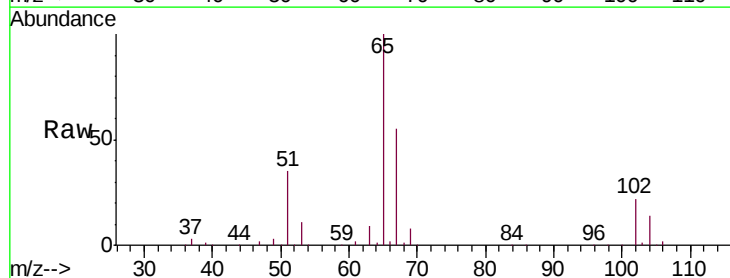
Acq: 2 Aug 2019 10:03

Tgt Ion: 65 Resp: 318253

Ion Ratio Lower Upper

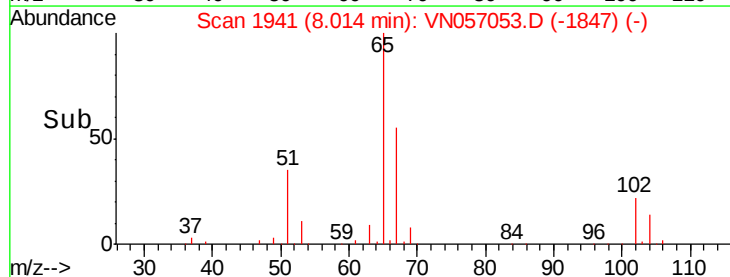
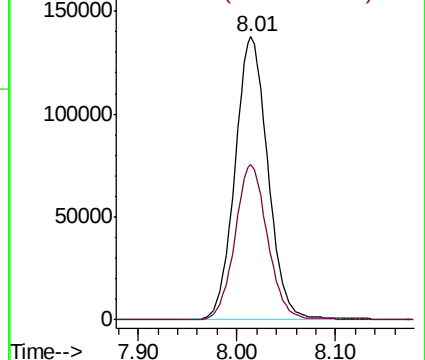
65 100

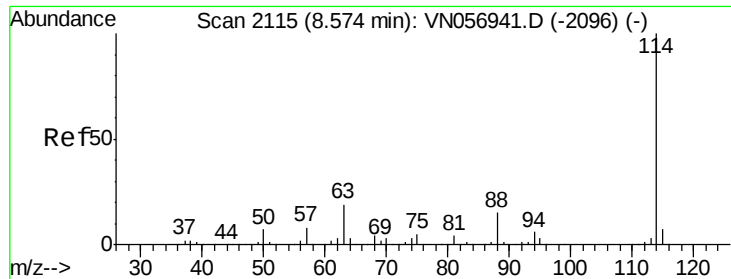
67 54.3 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VNC

Ion 66.90 (66.60 to 67.60): VNC

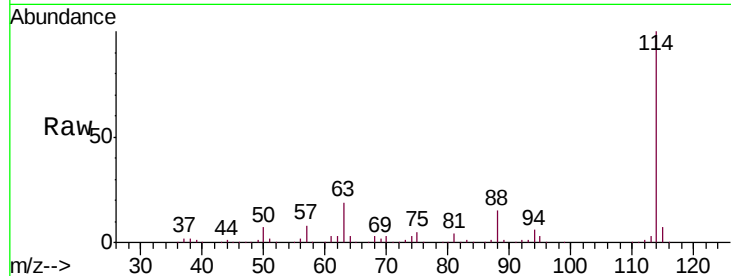




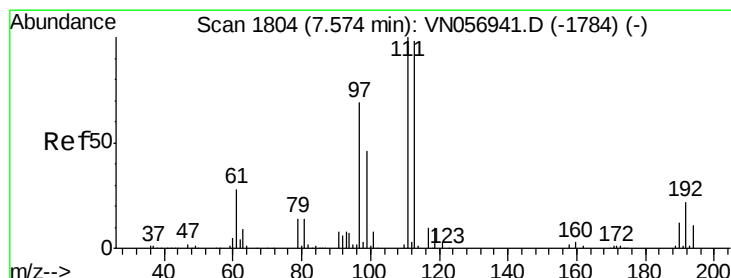
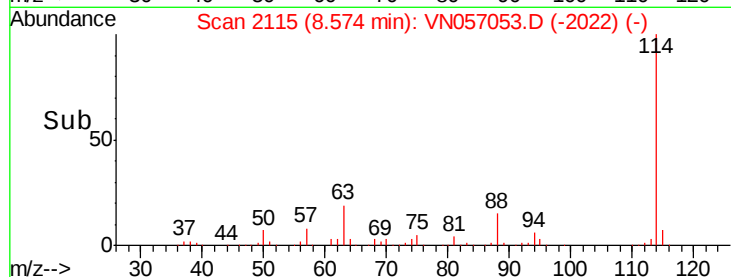
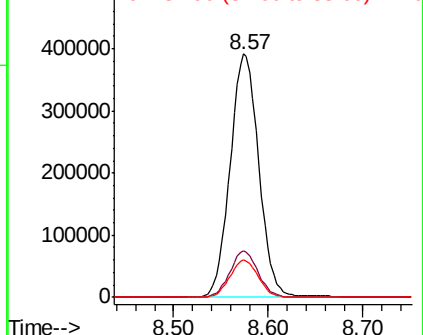
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2115
Delta R.T. 0.00 min
Lab File: VN057053.D
Acq: 2 Aug 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
SA-PZ133I-20190731

Tgt Ion:114 Resp: 825185
Ion Ratio Lower Upper
114 100
63 18.9 0.0 38.0
88 15.4 0.0 30.0

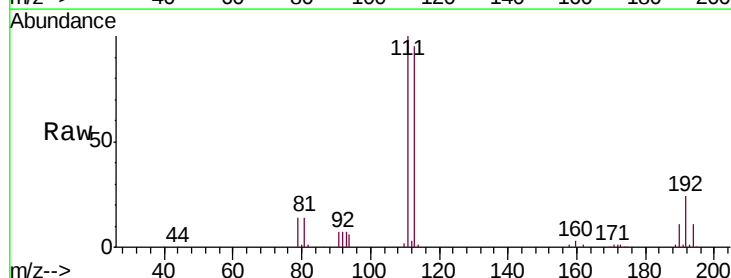


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

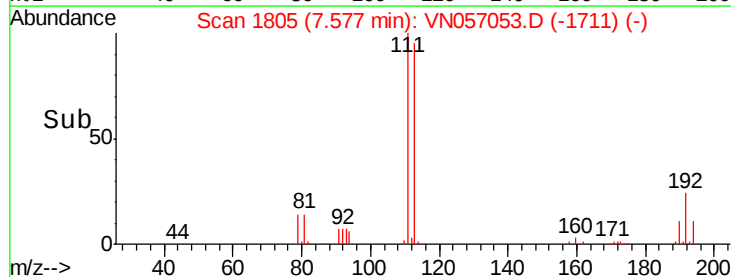
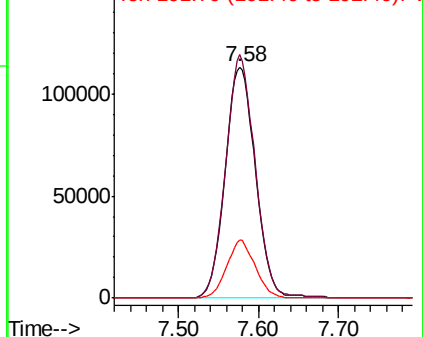


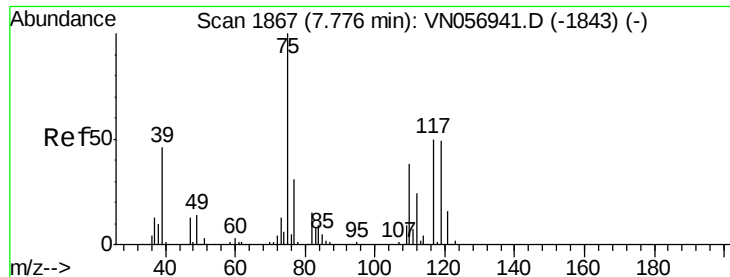
#35
Dibromofluoromethane
Concen: 55.385 ug/l
RT: 7.58 min Scan# 1805
Delta R.T. 0.00 min
Lab File: VN057053.D
Acq: 2 Aug 2019 10:03

Tgt Ion:113 Resp: 292575
Ion Ratio Lower Upper
113 100
111 101.9 82.0 123.0
192 23.5 18.4 27.6



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

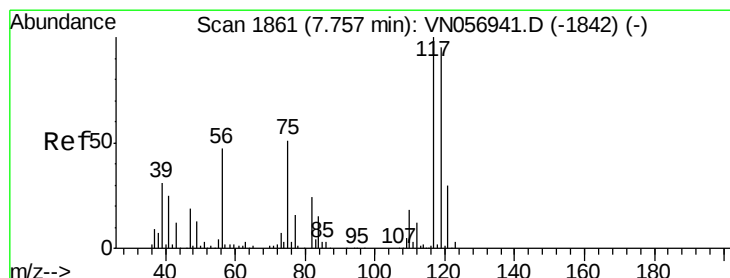
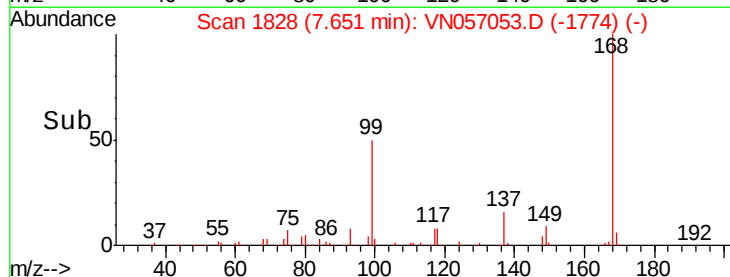
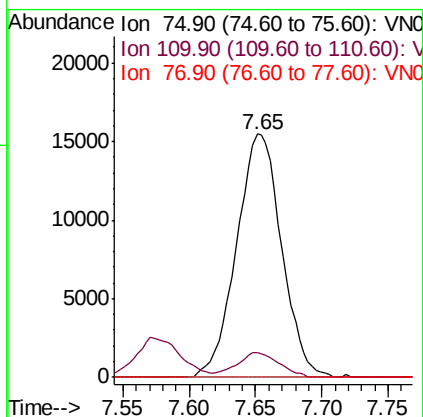
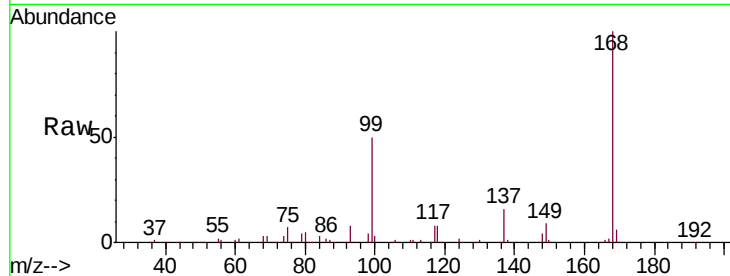




#36
 1,1-Dichloropropene
 Concen: 5.026 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057053.D
 Acq: 2 Aug 2019 10:03

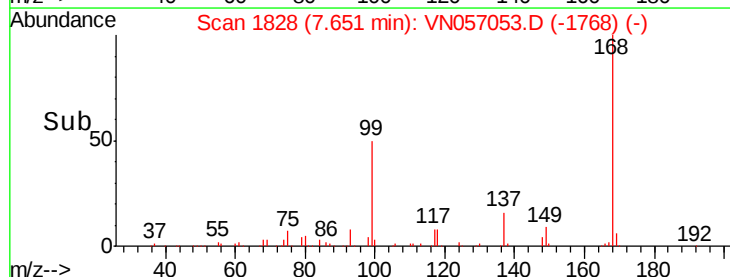
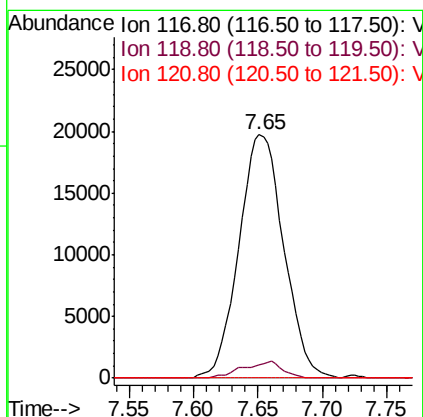
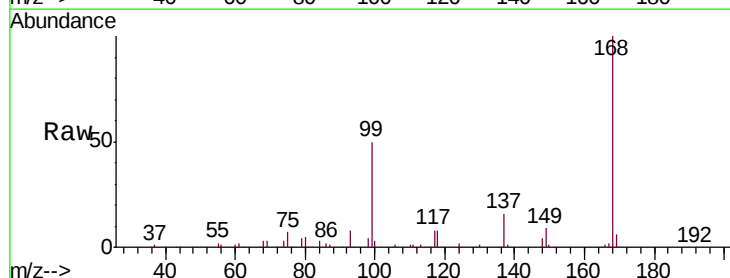
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 SA-PZ133I-20190731

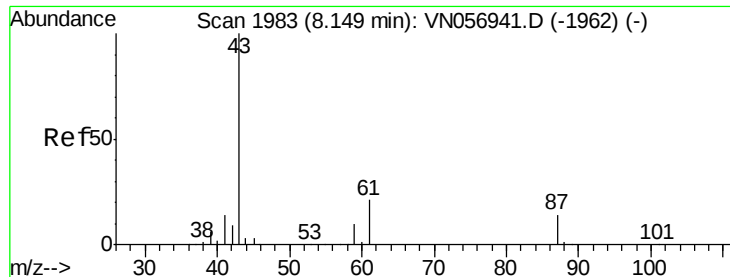
Tgt Ion: 75 Resp: 36496
 Ion Ratio Lower Upper
 75 100
 110 9.6 18.6 55.8#
 77 0.0 25.2 37.8#



#38
 Carbon Tetrachloride
 Concen: 6.947 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057053.D
 Acq: 2 Aug 2019 10:03

Tgt Ion: 117 Resp: 47714
 Ion Ratio Lower Upper
 117 100
 119 5.7 75.3 112.9#
 121 0.0 24.2 36.4#





#43

Isopropyl Acetate

Concen: 0.283 ug/l

RT: 8.24 min Scan# 2010

Delta R.T. 0.09 min

Lab File: VN057053.D

Acq: 2 Aug 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ133I-20190731

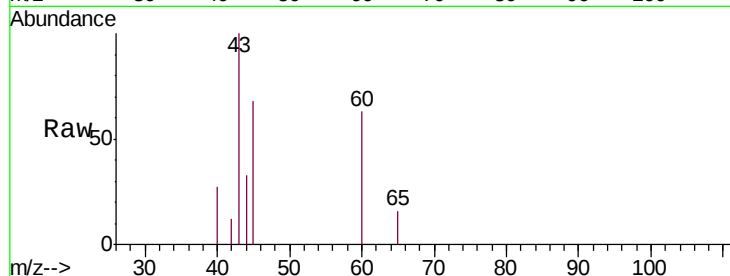
Tgt Ion: 43 Resp: 2718

Ion Ratio Lower Upper

43 100

61 0.0 23.0 34.6#

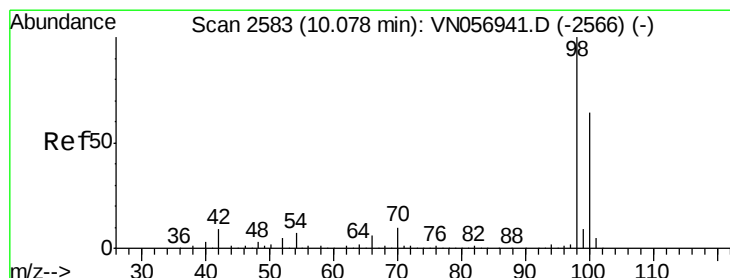
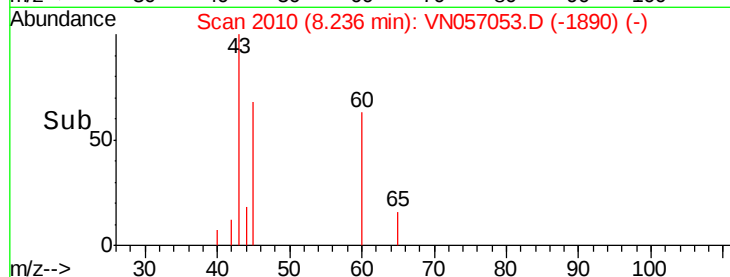
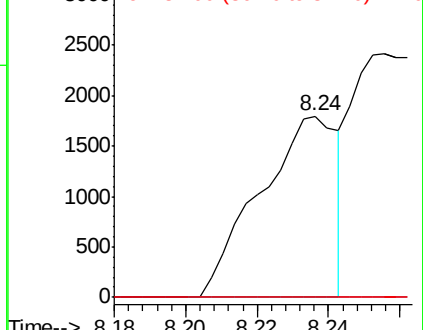
87 0.0 11.7 17.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 54.270 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN057053.D

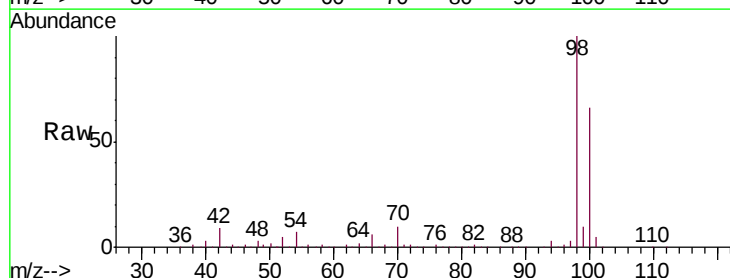
Acq: 2 Aug 2019 10:03

Tgt Ion: 98 Resp: 1093269

Ion Ratio Lower Upper

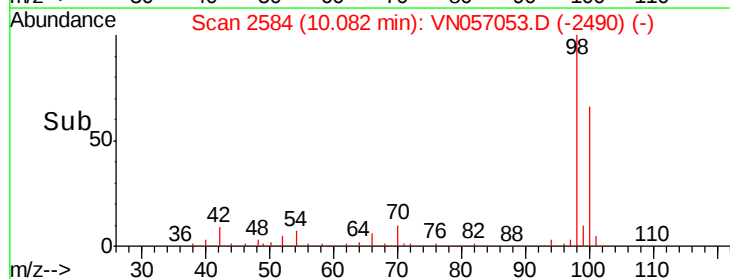
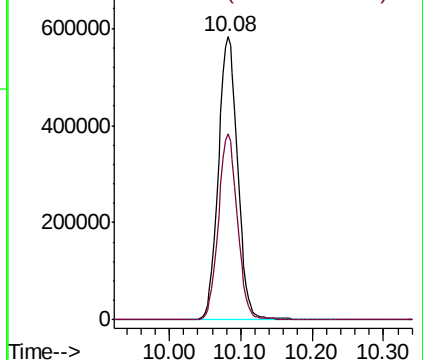
98 100

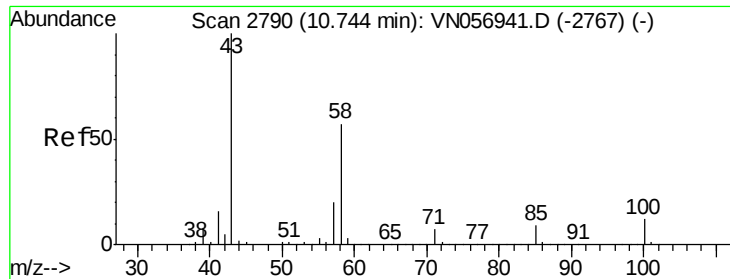
100 64.8 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

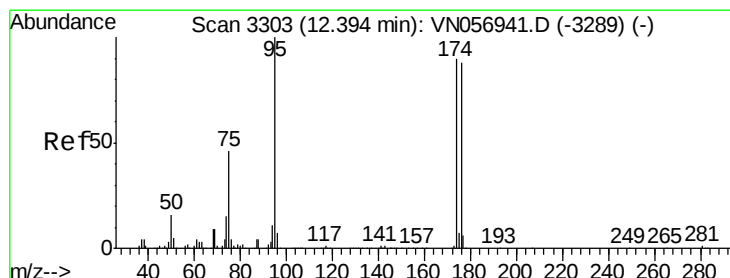
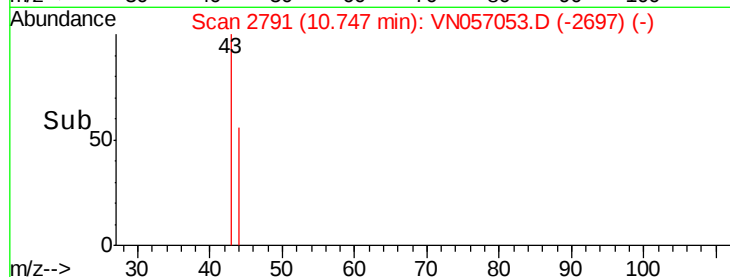
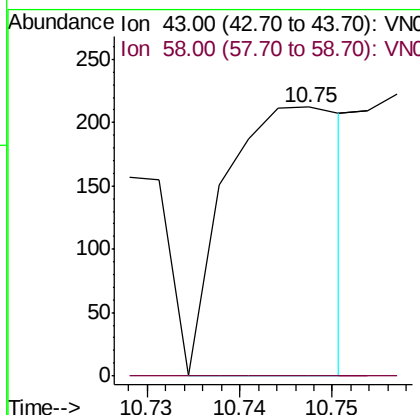
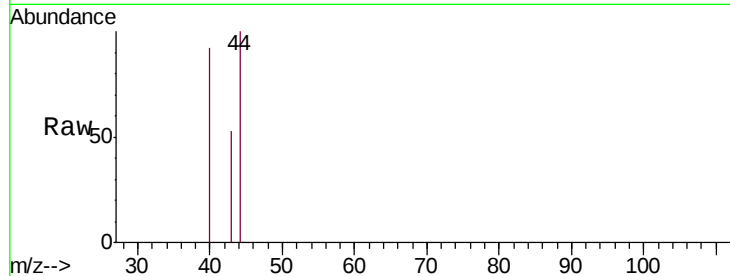




#59
2-Hexanone
Concen: 2.542 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN057053.D
Acq: 2 Aug 2019 10:03

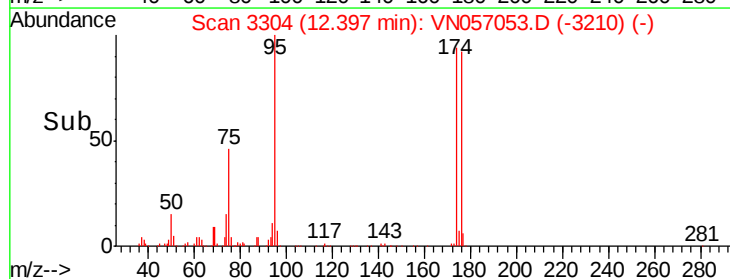
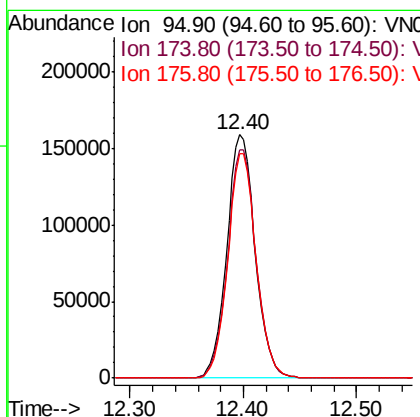
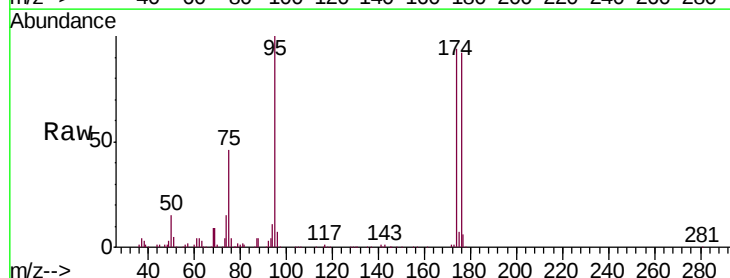
Instrument :
MSVOA_N
ClientSampleId :
SA-PZ133I-20190731

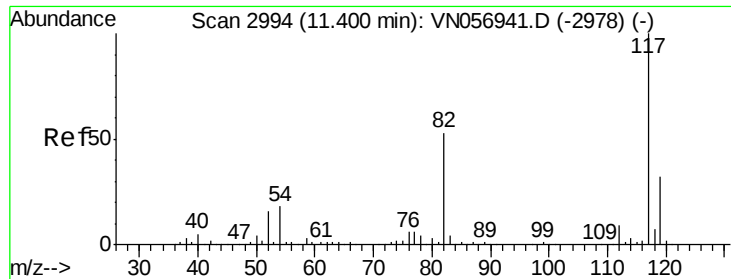
Tgt Ion: 43 Resp: 187
Ion Ratio Lower Upper
43 100
58 0.0 28.5 85.5#



#62
4-Bromofluorobenzene
Concen: 42.204 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN057053.D
Acq: 2 Aug 2019 10:03

Tgt Ion: 95 Resp: 276779
Ion Ratio Lower Upper
95 100
174 94.0 0.0 182.2
176 92.0 0.0 179.4

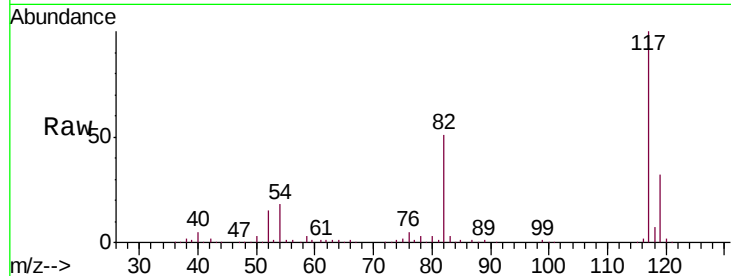




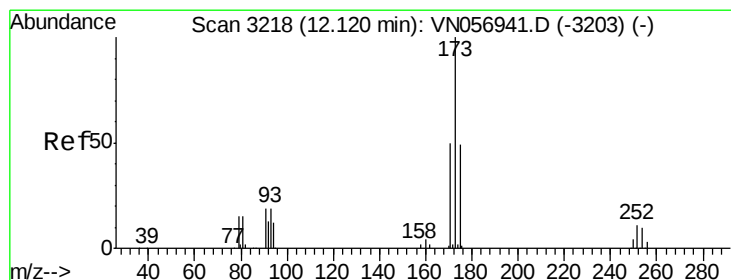
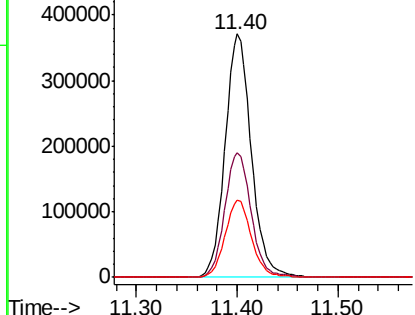
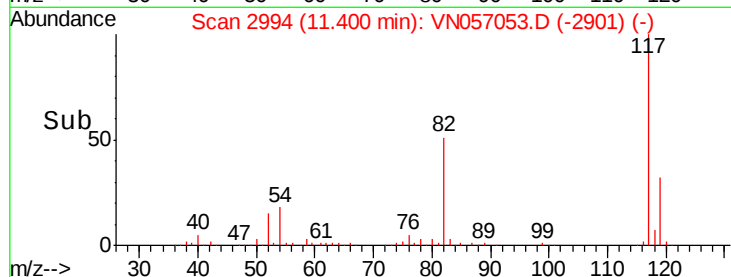
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN057053.D
Acq: 2 Aug 2019 10:03

Instrument :
MSVOA_N
ClientSampleId :
SA-PZ133I-20190731

Tgt Ion:117 Resp: 672822
Ion Ratio Lower Upper
117 100
82 51.2 42.2 63.4
119 31.9 25.8 38.6

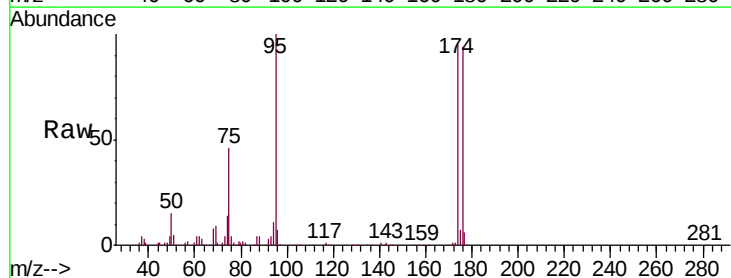


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

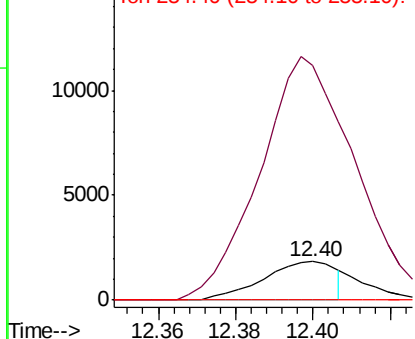
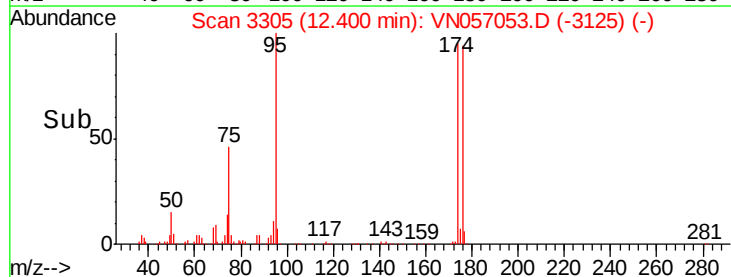


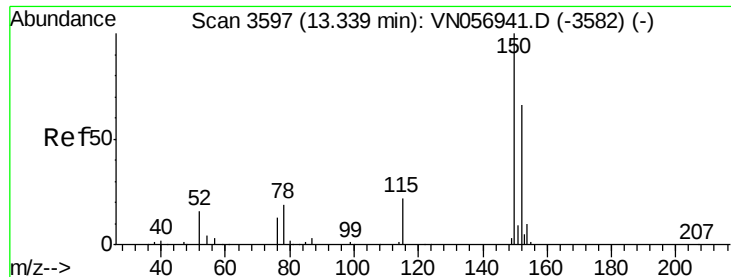
#71
Bromoform
Concen: 0.663 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.28 min
Lab File: VN057053.D
Acq: 2 Aug 2019 10:03

Tgt Ion:173 Resp: 2390
Ion Ratio Lower Upper
173 100
175 644.9 24.1 72.4#
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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN057053.D

Acq: 2 Aug 2019 10:03

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ133I-20190731

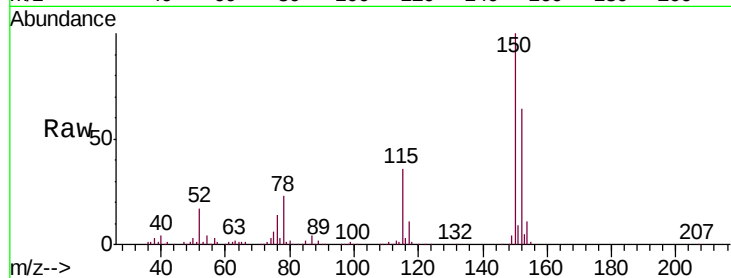
Tgt Ion:152 Resp: 174798

Ion Ratio Lower Upper

152 100

115 55.8 28.2 84.6

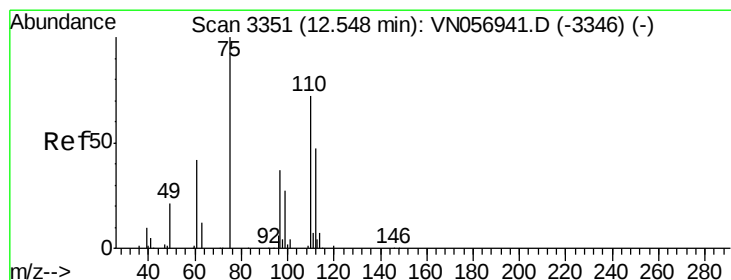
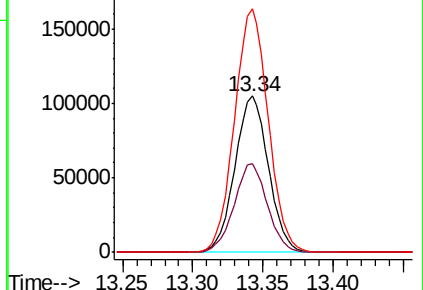
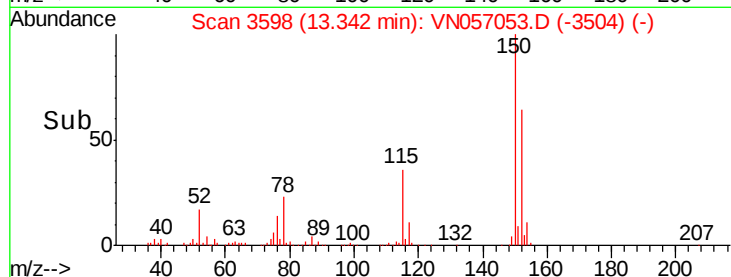
150 156.5 0.0 349.4



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: 36.165 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN057053.D

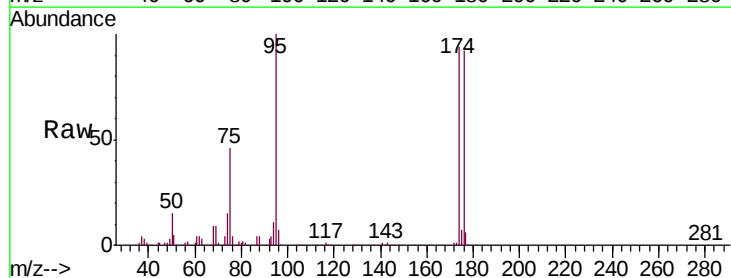
Acq: 2 Aug 2019 10:03

Tgt Ion: 75 Resp: 128380

Ion Ratio Lower Upper

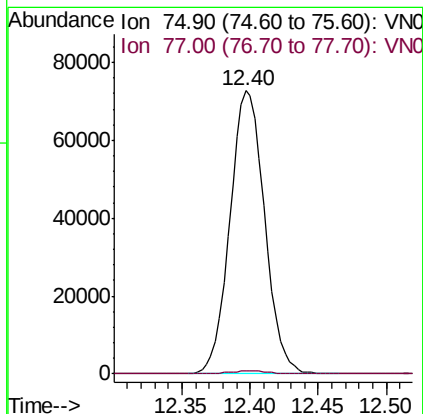
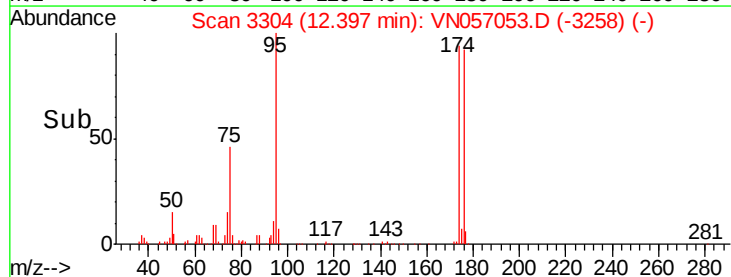
75 100

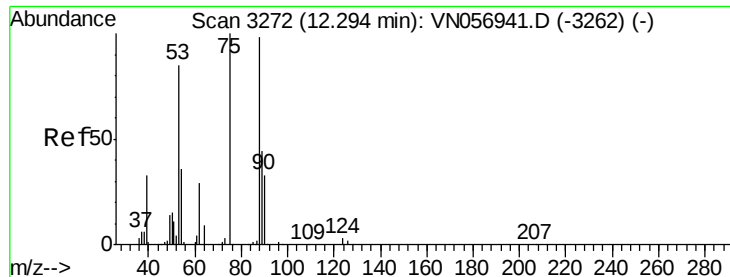
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

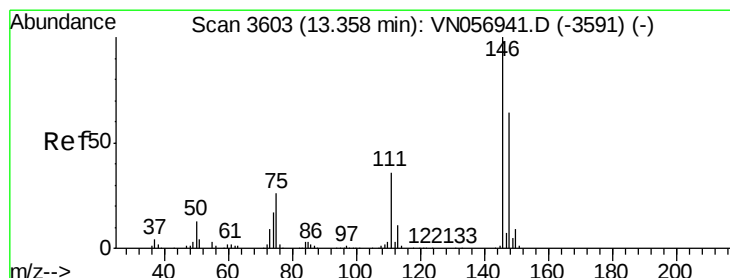
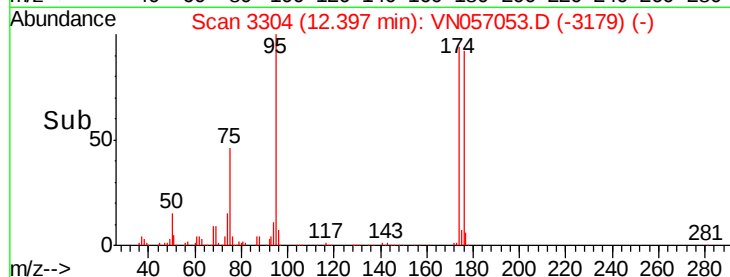
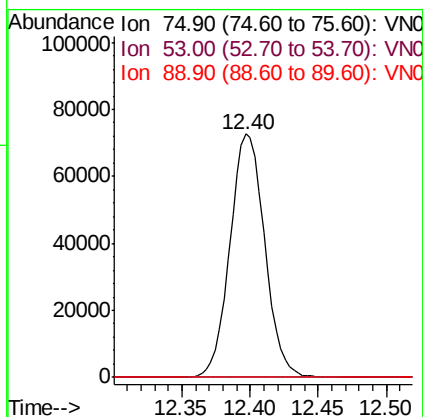
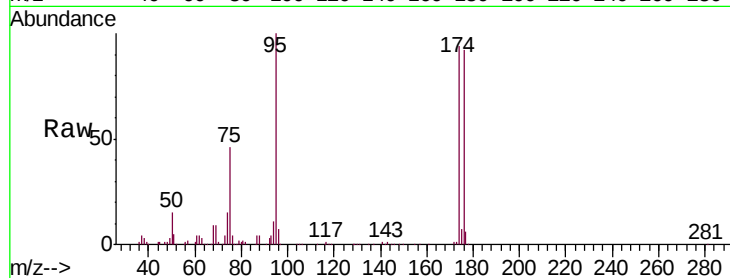




#81
trans-1,4-Dichloro-2-butene
Concen: 116.197 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN057053.D
Acq: 2 Aug 2019 10:03

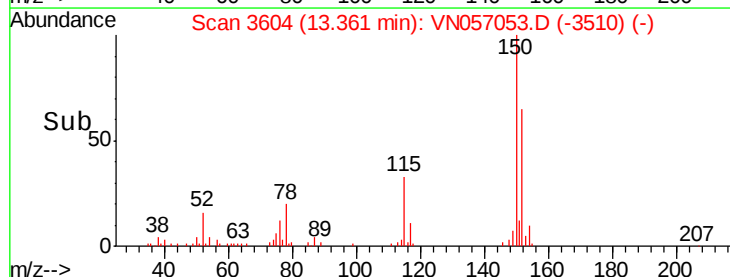
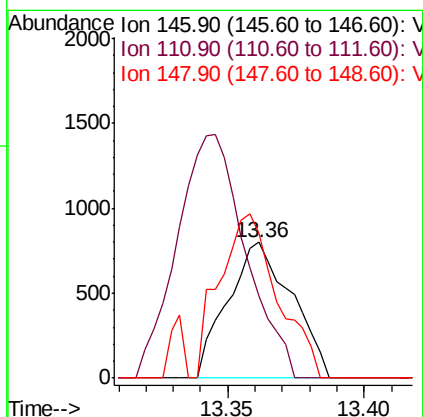
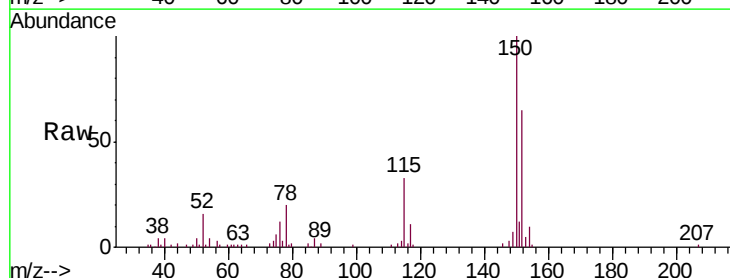
Instrument :
MSVOA_N
ClientSampleId :
SA-PZ1331-20190731

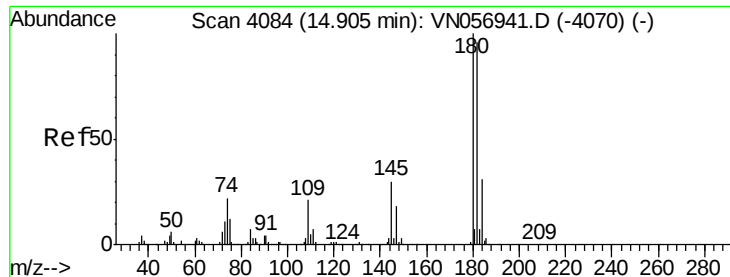
Tgt Ion: 75 Resp: 128380
Ion Ratio Lower Upper
75 100
53 0.0 69.3 103.9#
89 0.0 35.8 53.6#



#88
1,4-Dichlorobenzene
Concen: 0.225 ug/l
RT: 13.36 min Scan# 3604
Delta R.T. 0.00 min
Lab File: VN057053.D
Acq: 2 Aug 2019 10:03

Tgt Ion: 146 Resp: 1300
Ion Ratio Lower Upper
146 100
111 191.4 18.4 55.2#
148 110.4 32.3 96.9#

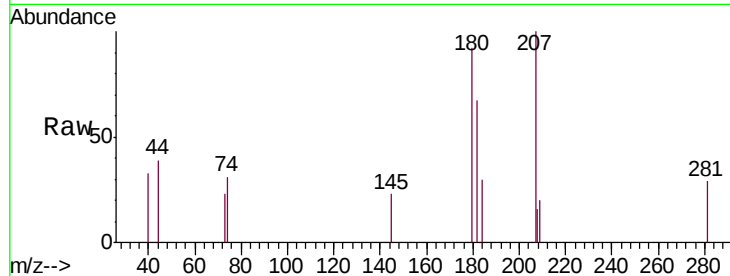




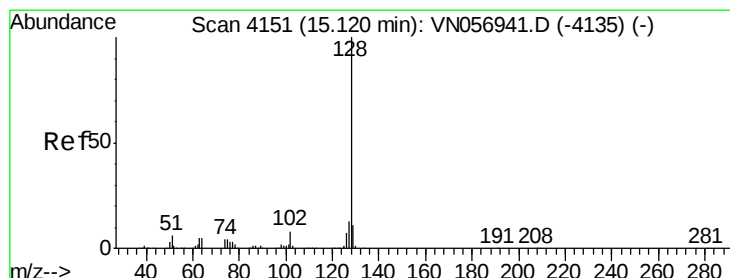
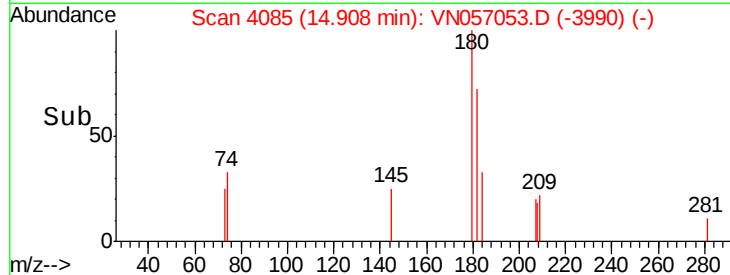
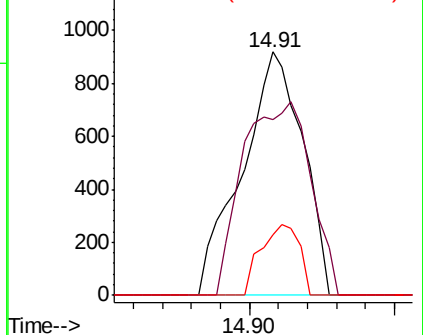
#93
 1,2,4-Trichlorobenzene
 Concen: 3.127 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN057053.D
 Acq: 2 Aug 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ133I-20190731

Tgt Ion:180 Resp: 1339
 Ion Ratio Lower Upper
 180 100
 182 88.4 47.6 142.8
 145 18.3 14.2 42.8

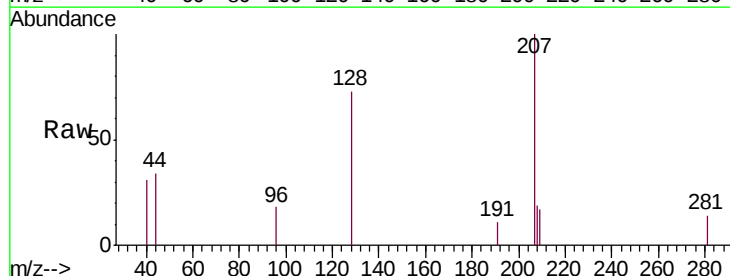


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

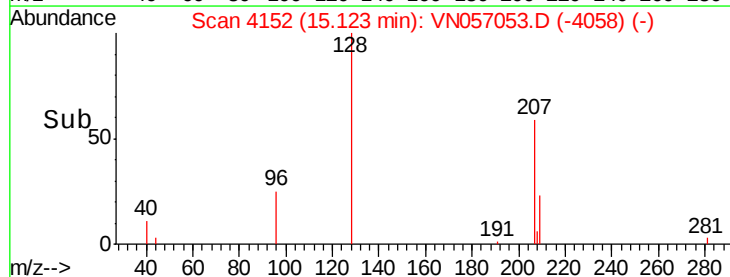
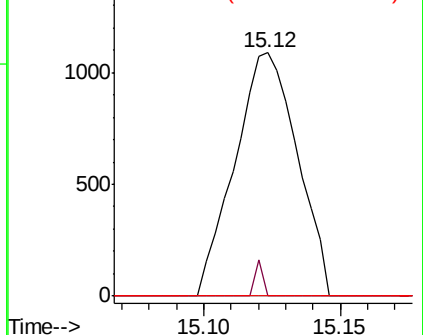


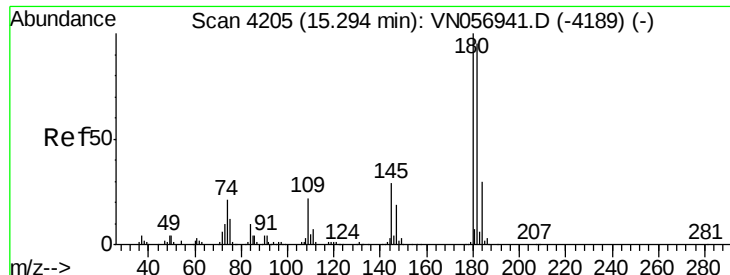
#95
 Naphthalene
 Concen: 3.804 ug/l
 RT: 15.12 min Scan# 4152
 Delta R.T. 0.00 min
 Lab File: VN057053.D
 Acq: 2 Aug 2019 10:03

Tgt Ion:128 Resp: 1729
 Ion Ratio Lower Upper
 128 100
 127 1.8 10.0 15.0#
 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: 2.405 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. 0.00 min
 Lab File: VN057053.D
 Acq: 2 Aug 2019 10:03

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ133I-20190731

Tgt Ion	Ratio	Lower	Upper
180	100		
182	101.5	48.0	144.2
145	0.0	15.0	45.0#

