

Data File : VN057058.D
Acq On : 2 Aug 2019 11:59
Operator : JC/SP
Sample : K4118-21
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
SA-PZ133I-20190731RE

Quant Time: Aug 03 04:21:58 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	583804	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	849218	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	690947	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	183751	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	325190	54.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.84%	
35) Dibromofluoromethane	7.58	113	297599	54.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.48%	
50) Toluene-d8	10.08	98	1111693	53.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.24%	
62) 4-Bromofluorobenzene	12.40	95	283611	42.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.04%	

Target Compounds

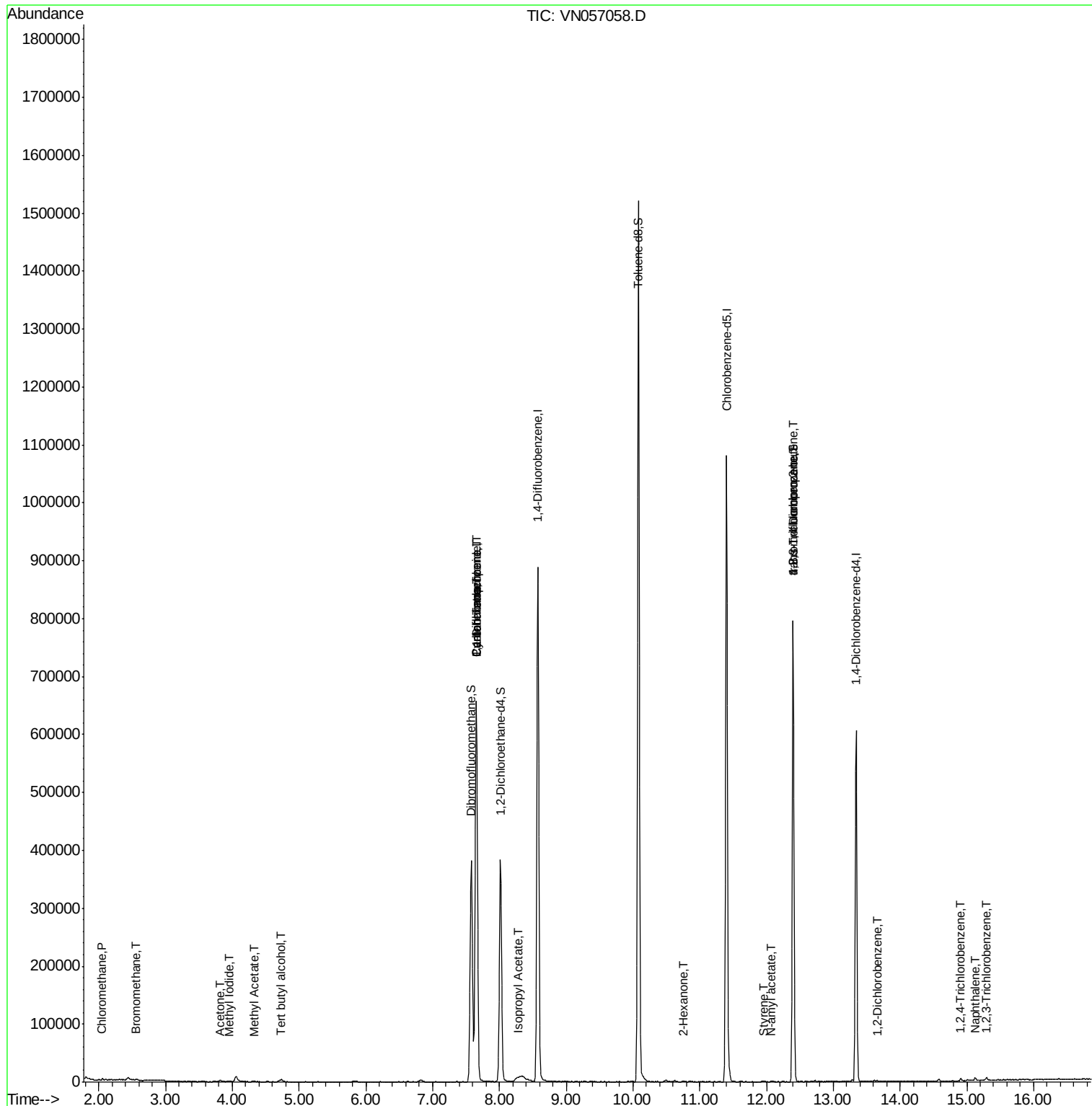
						Qvalue
3) Chloromethane	2.05	50	2646	0.374	ug/l	97
5) Bromomethane	2.56	94	1118	0.271	ug/l #	58
10) Methyl Iodide	3.95	142	1640	0.228	ug/l #	67
11) Tert butyl alcohol	4.73	59	3283	4.064	ug/l #	74
16) Acetone	3.82	43	3780	1.746	ug/l	89
18) Methyl Acetate	4.32	43	1608	0.233	ug/l #	70
31) Cyclohexane	7.65	56	8701	0.886	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	37139	4.970	ug/l #	48
38) Carbon Tetrachloride	7.65	117	50350	7.123	ug/l #	17
43) Isopropyl Acetate	8.27	43	6160	0.623	ug/l #	52
59) 2-Hexanone	10.76	43	1382	2.802	ug/l	64
70) Styrene	11.96	104	616	1.905	ug/l #	59
74) N-ethyl acetate	12.07	43	983	0.213	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	132538	35.517	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	132538	114.115	ug/l #	15
91) 1,2-Dichlorobenzene	13.66	146	1471	0.237	ug/l	95
93) 1,2,4-Trichlorobenzene	14.91	180	1774	3.236	ug/l	96
94) Hexachlorobutadiene	15.01	225	662	Below Cal		69
95) Naphthalene	15.12	128	5117	4.196	ug/l #	82
96) 1,2,3-Trichlorobenzene	15.30	180	2381	2.756	ug/l	94

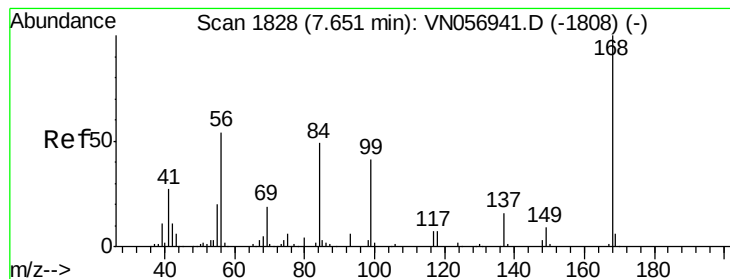
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN057058.D

Acq: 2 Aug 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

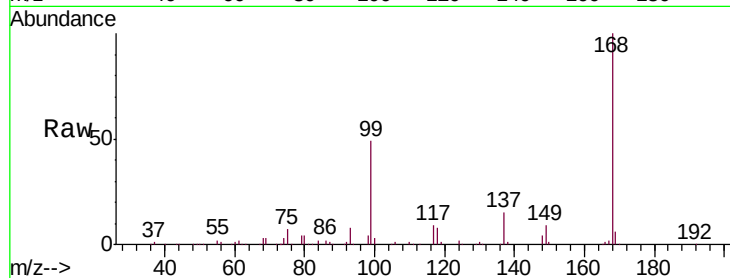
SA-PZ133I-20190731RE

Tgt Ion:168 Resp: 583804

Ion Ratio Lower Upper

168 100

99 49.4 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

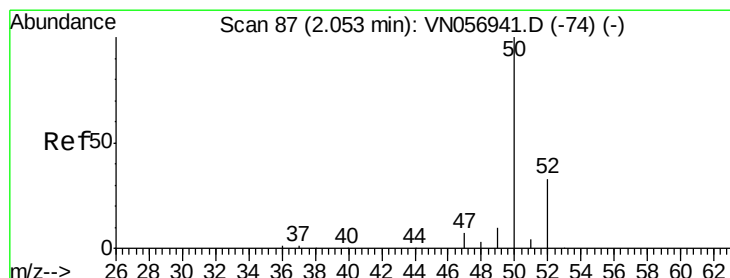
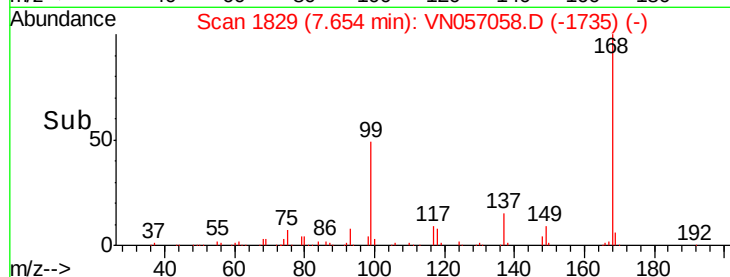
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.374 ug/l

RT: 2.05 min Scan# 87

Delta R.T. -0.00 min

Lab File: VN057058.D

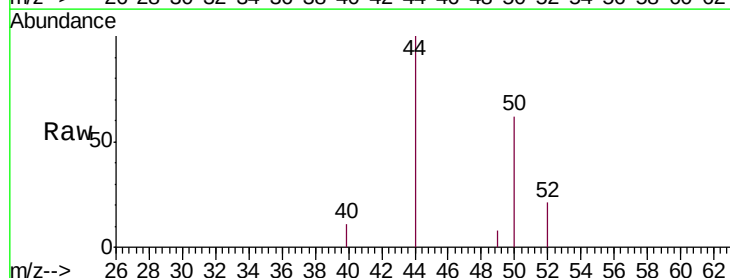
Acq: 2 Aug 2019 11:59

Tgt Ion: 50 Resp: 2646

Ion Ratio Lower Upper

50 100

52 34.4 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2000

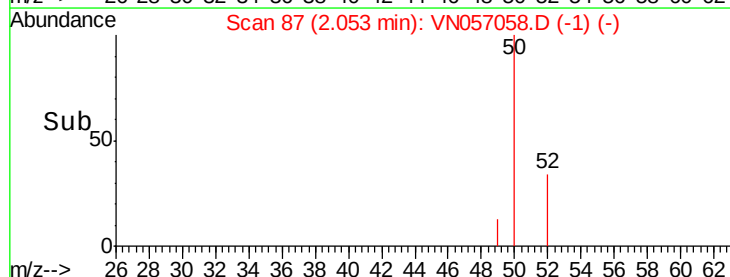
1500

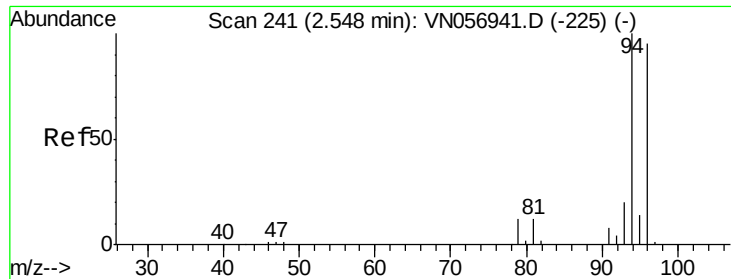
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.271 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.02 min

Lab File: VN057058.D

Acq: 2 Aug 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

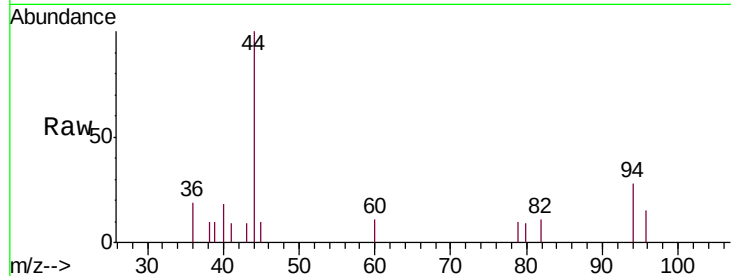
SA-PZ133I-20190731RE

Tgt Ion: 94 Resp: 1118

Ion Ratio Lower Upper

94 100

96 54.0 76.2 114.2#



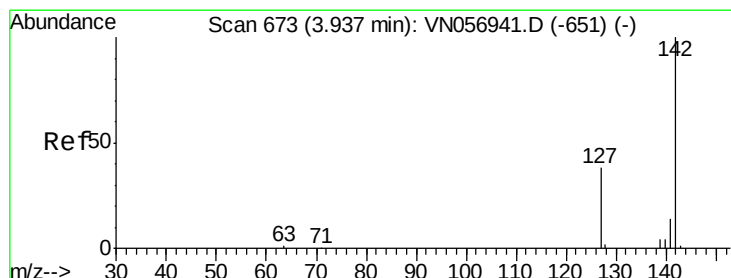
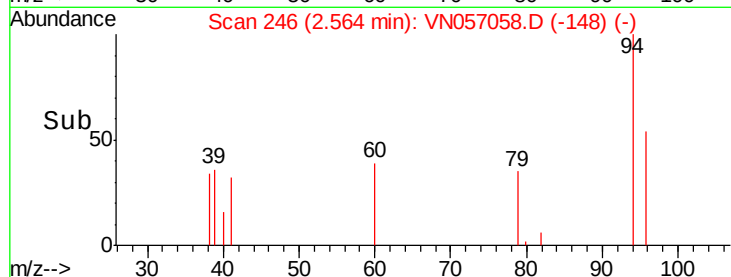
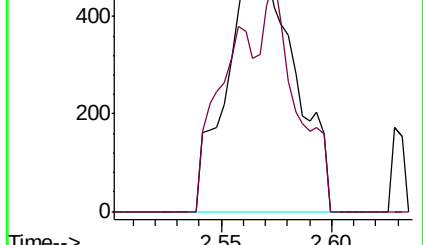
Abundance Ion 93.90 (93.60 to 94.60): VN056941.D (-225) (-)

Ion 95.90 (95.60 to 96.60): VN056941.D (-225) (-)

2.56

2.55

2.60



#10

Methyl Iodide

Concen: 0.228 ug/l

RT: 3.95 min Scan# 678

Delta R.T. 0.02 min

Lab File: VN057058.D

Acq: 2 Aug 2019 11:59

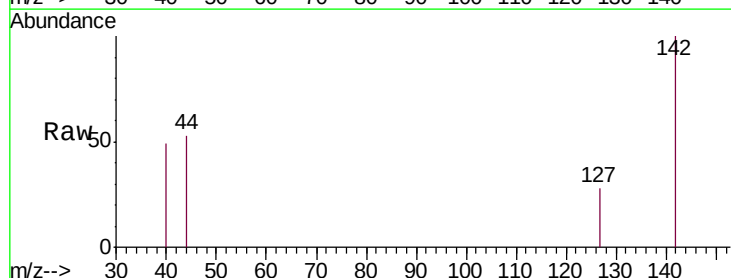
Tgt Ion: 142 Resp: 1640

Ion Ratio Lower Upper

142 100

127 18.0 30.4 45.6#

141 0.0 11.1 16.7#



Abundance Ion 141.80 (141.50 to 142.50): VN056941.D (-651) (-)

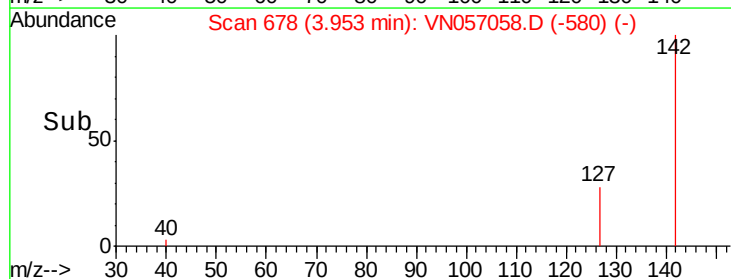
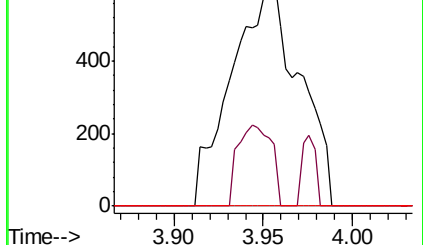
Ion 126.80 (126.50 to 127.50): VN056941.D (-651) (-)

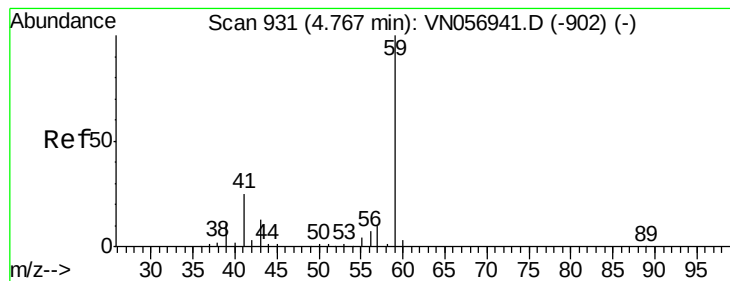
Ion 140.80 (140.50 to 141.50): VN056941.D (-651) (-)

3.95

3.90

4.00





#11

Tert butyl alcohol

Concen: 4.064 ug/l

RT: 4.73 min Scan# 920

Delta R.T. -0.04 min

Lab File: VN057058.D

Acq: 2 Aug 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

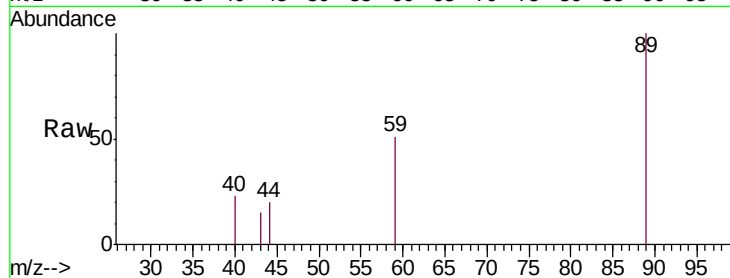
SA-PZ133I-20190731RE

Tgt Ion: 59 Resp: 3283

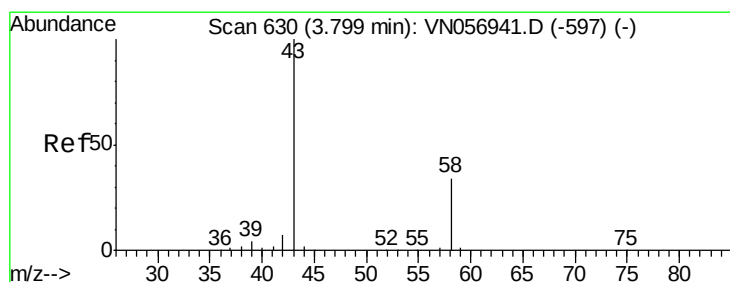
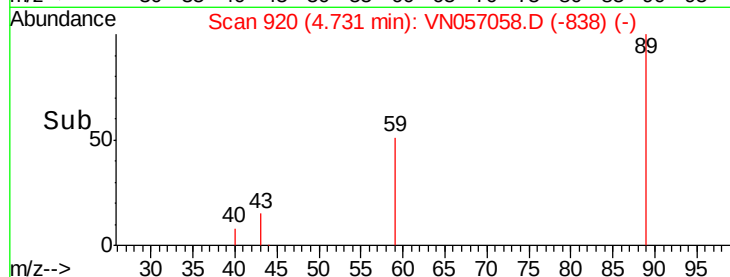
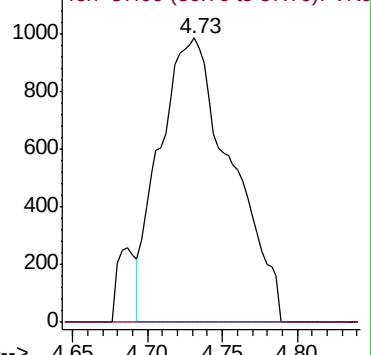
Ion Ratio Lower Upper

59 100

57 0.0 7.5 11.3#



Abundance Ion 59.00 (58.70 to 59.70): VN056941.D (-902) (-)



#16

Acetone

Concen: 1.746 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.02 min

Lab File: VN057058.D

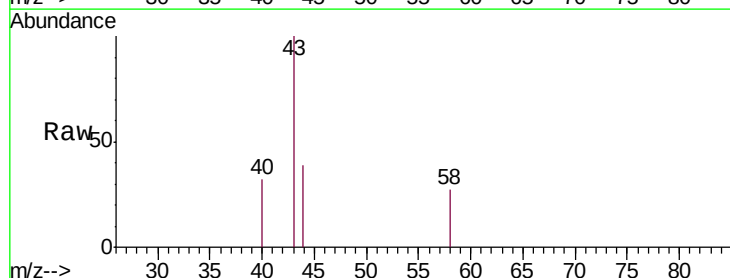
Acq: 2 Aug 2019 11:59

Tgt Ion: 43 Resp: 3780

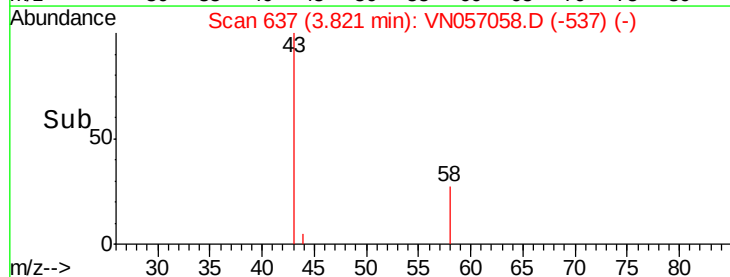
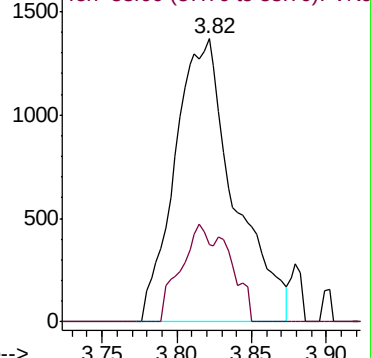
Ion Ratio Lower Upper

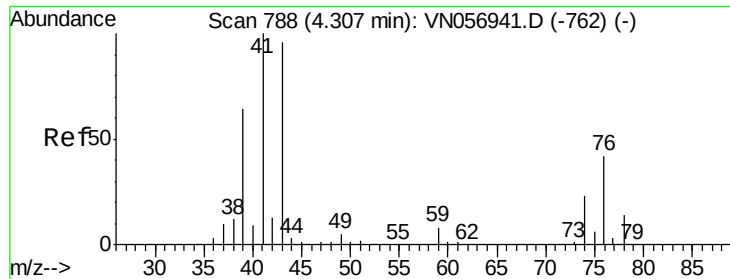
43 100

58 27.5 27.2 40.8



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

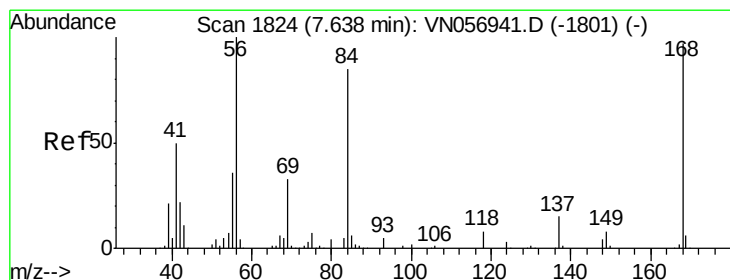
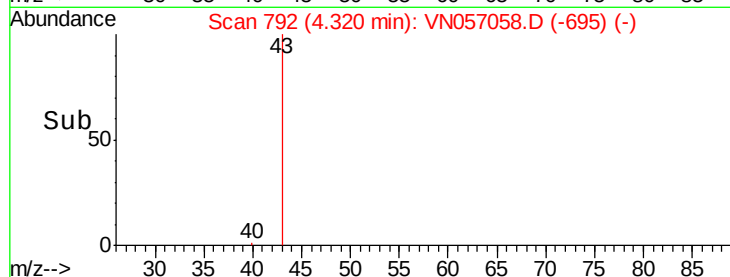
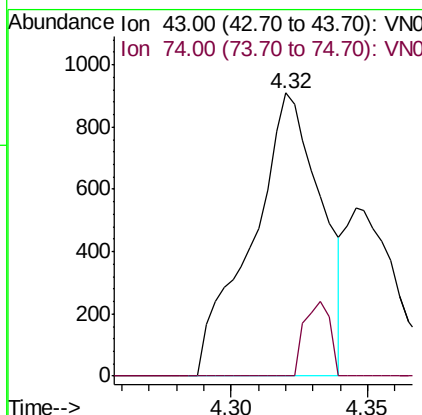
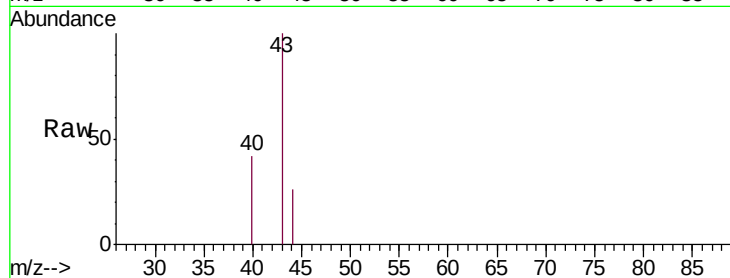




#18
Methyl Acetate
Concen: 0.233 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN057058.D
Acq: 2 Aug 2019 11:59

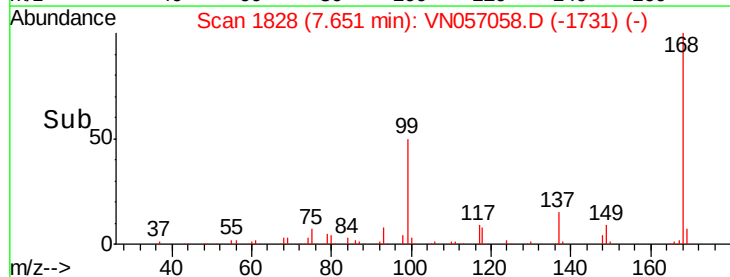
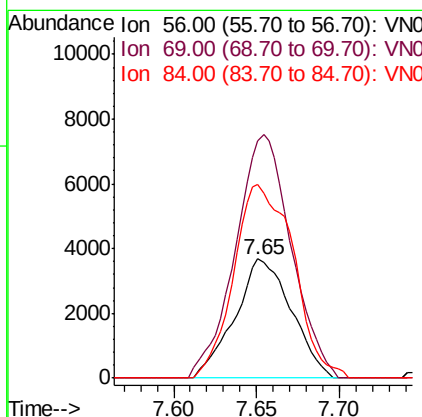
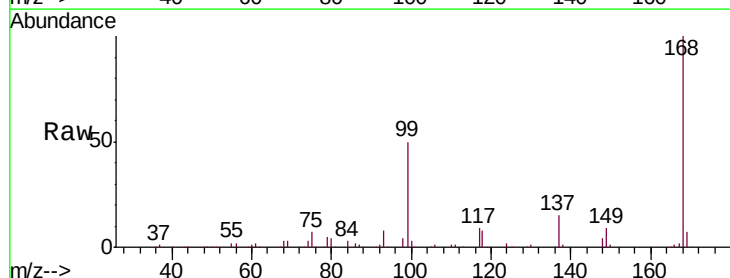
Instrument :
MSVOA_N
ClientSampleId :
SA-PZ133I-20190731RE

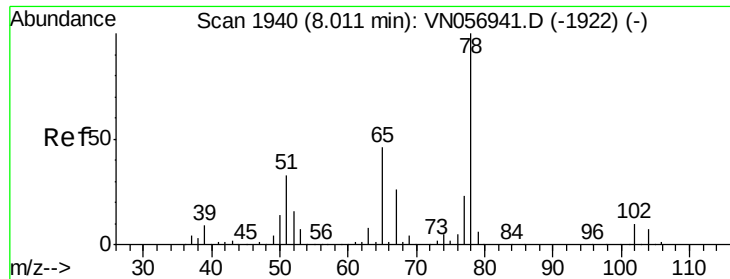
Tgt Ion: 43 Resp: 1608
Ion Ratio Lower Upper
43 100
74 9.6 19.7 29.5#



#31
Cyclohexane
Concen: 0.886 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057058.D
Acq: 2 Aug 2019 11:59

Tgt Ion: 56 Resp: 8701
Ion Ratio Lower Upper
56 100
69 199.3 26.2 39.2#
84 162.4 68.2 102.2#

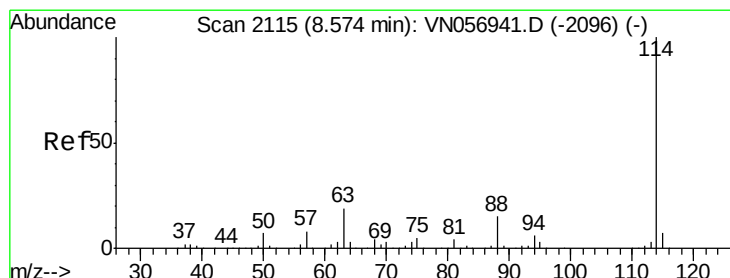
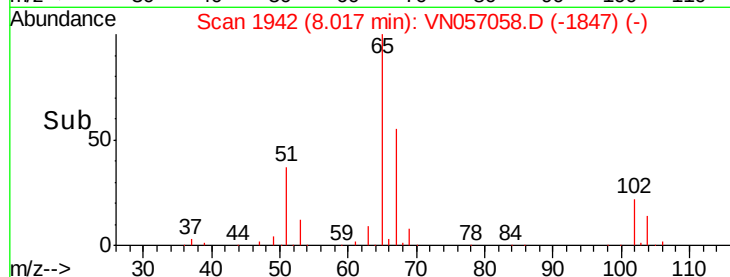
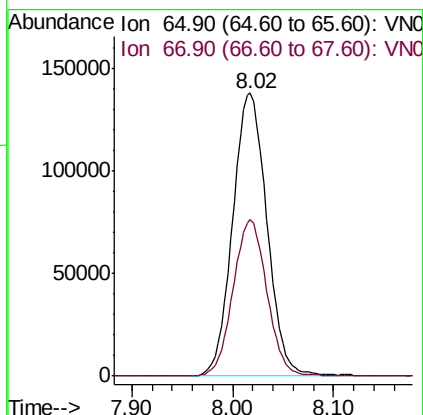
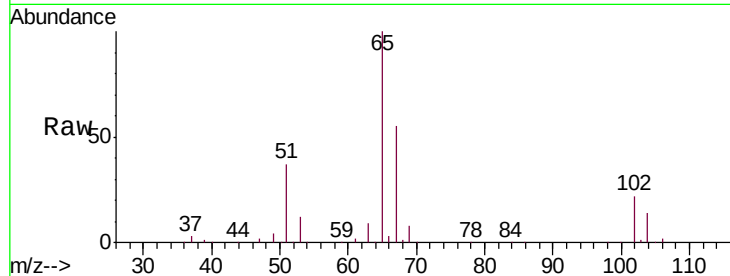




#33
 1,2-Dichloroethane-d4
 Concen: 54.415 ug/l
 RT: 8.02 min Scan# 1942
 Delta R.T. 0.01 min
 Lab File: VN057058.D
 Acq: 2 Aug 2019 11:59

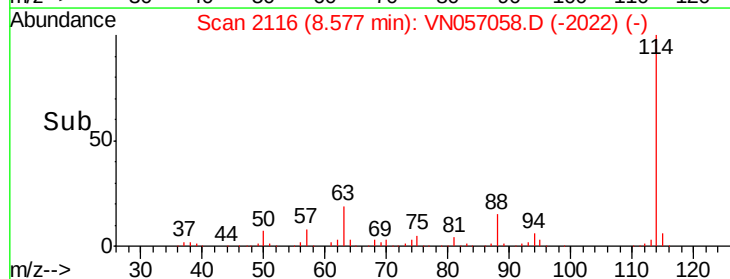
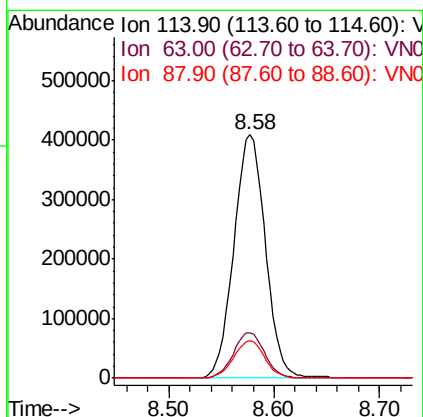
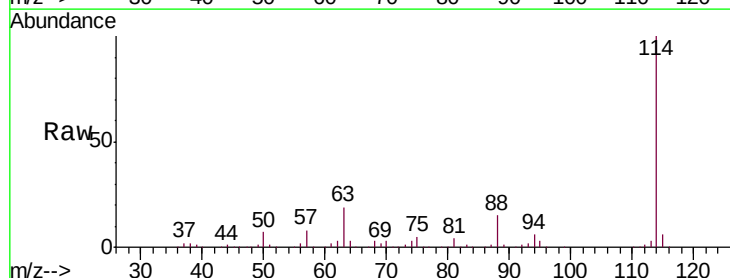
Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ133I-20190731RE

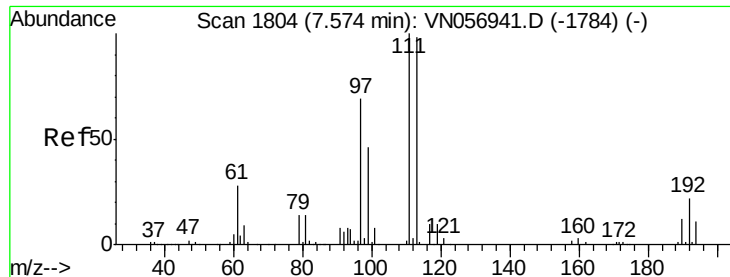
Tgt Ion: 65 Resp: 325190
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057058.D
 Acq: 2 Aug 2019 11:59

Tgt Ion: 114 Resp: 849218
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 38.0
 88 15.5 0.0 30.0

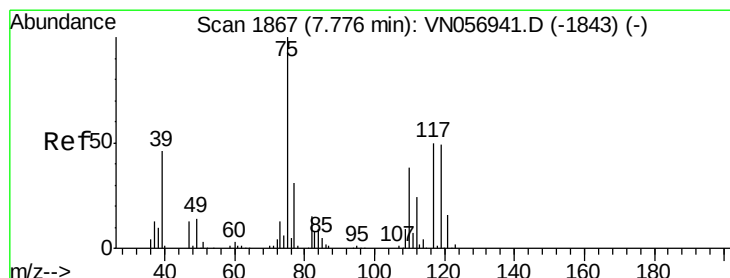
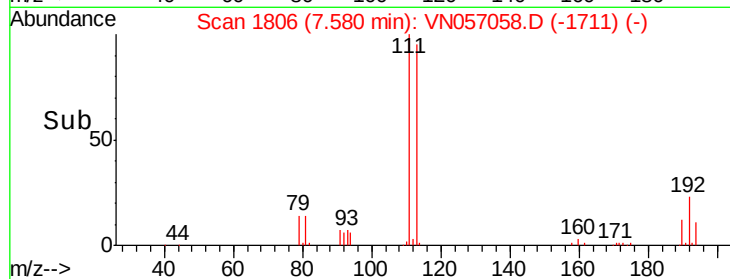
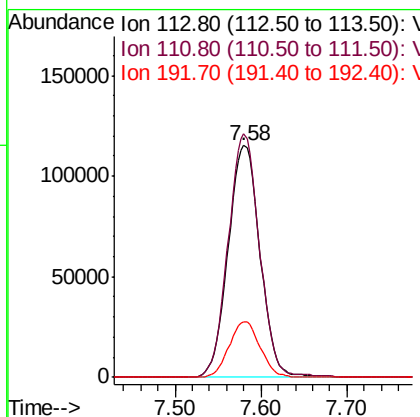
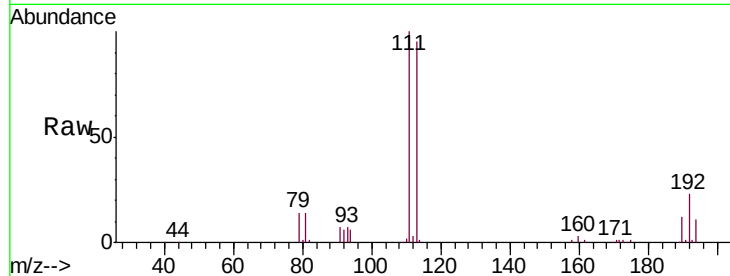




#35
 Dibromofluoromethane
 Concen: 54.742 ug/l
 RT: 7.58 min Scan# 1806
 Delta R.T. 0.01 min
 Lab File: VN057058.D
 Acq: 2 Aug 2019 11:59

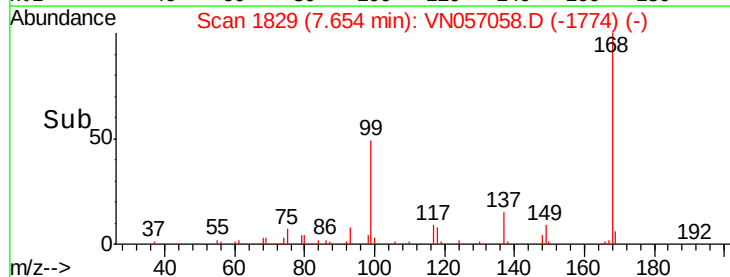
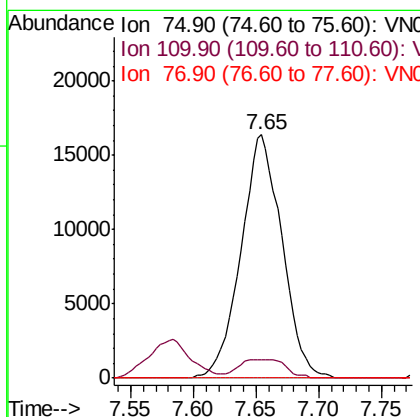
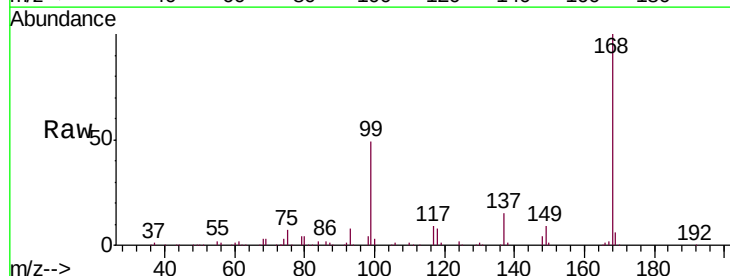
Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ133I-20190731RE

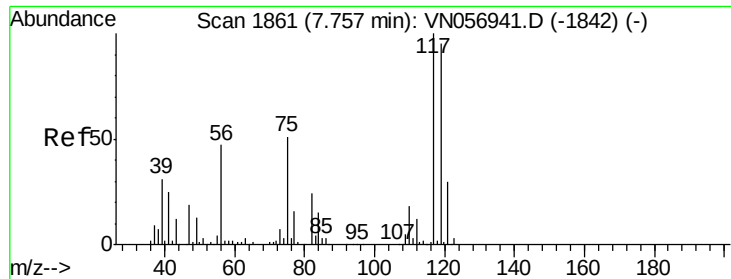
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.0	123.0
192	23.3	18.4	27.6



#36
 1,1-Dichloropropene
 Concen: 4.970 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN057058.D
 Acq: 2 Aug 2019 11:59

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.6	55.8#
77	0.0	25.2	37.8#





#38

Carbon Tetrachloride

Concen: 7.123 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN057058.D

Acq: 2 Aug 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ133I-20190731RE

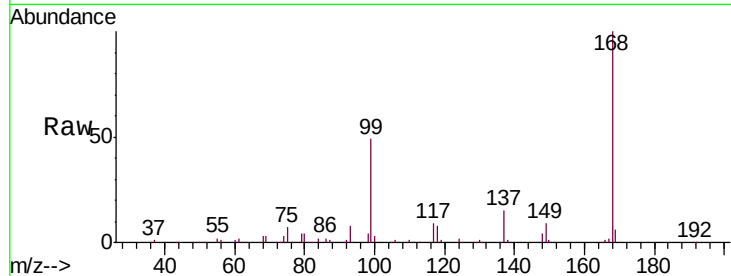
Tgt Ion:117 Resp: 50350

Ion Ratio Lower Upper

117 100

119 5.7 75.3 112.9#

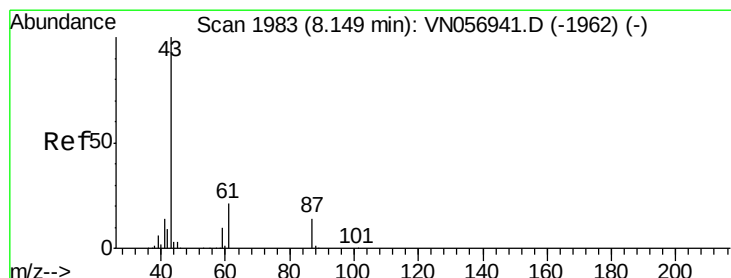
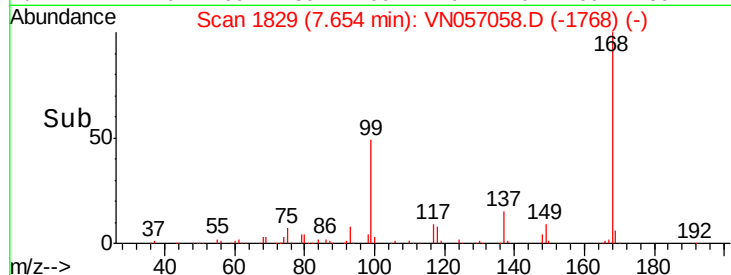
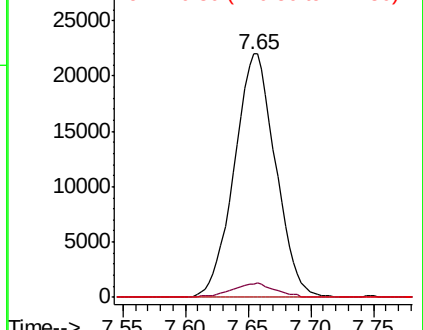
121 0.0 24.2 36.4#



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: 0.623 ug/l

RT: 8.27 min Scan# 2020

Delta R.T. 0.12 min

Lab File: VN057058.D

Acq: 2 Aug 2019 11:59

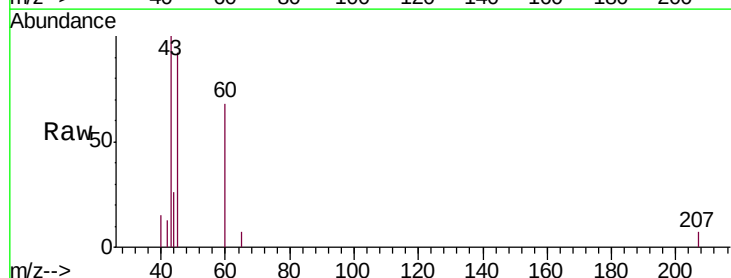
Tgt Ion: 43 Resp: 6160

Ion Ratio Lower Upper

43 100

61 0.0 23.0 34.6#

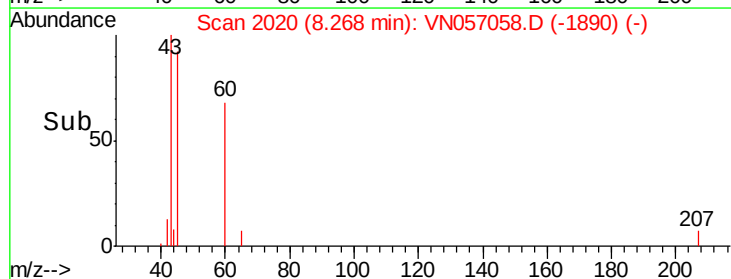
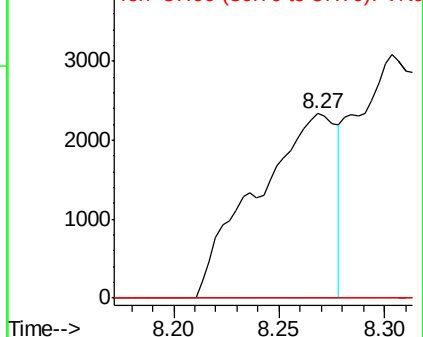
87 0.0 11.7 17.5#

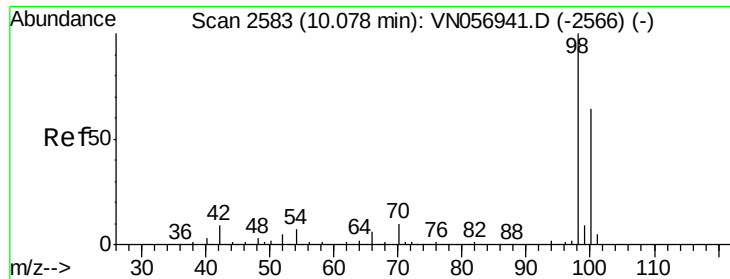


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#50

Toluene-d8

Concen: 53.623 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN057058.D

Acq: 2 Aug 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

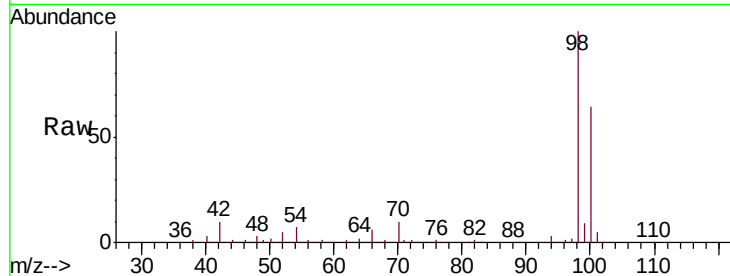
SA-PZ133I-20190731RE

Tgt Ion: 98 Resp: 1111693

Ion Ratio Lower Upper

98 100

100 64.5 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

600000

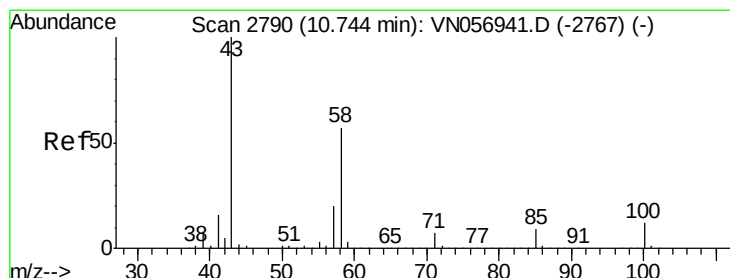
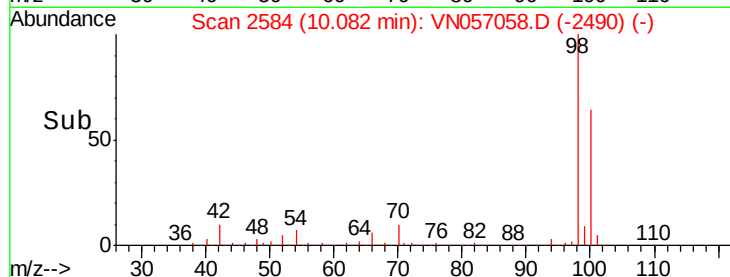
400000

200000

0

10.00 10.10 10.20

Time-->



#59

2-Hexanone

Concen: 2.802 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN057058.D

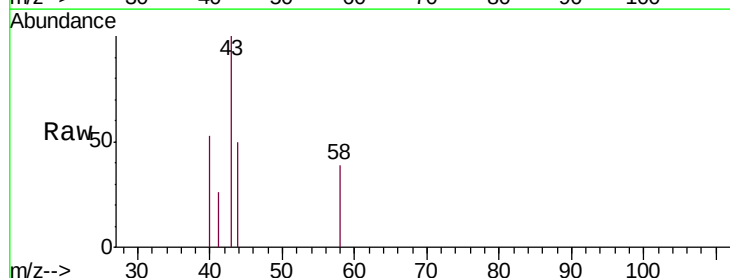
Acq: 2 Aug 2019 11:59

Tgt Ion: 43 Resp: 1382

Ion Ratio Lower Upper

43 100

58 30.5 28.5 85.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

800

600

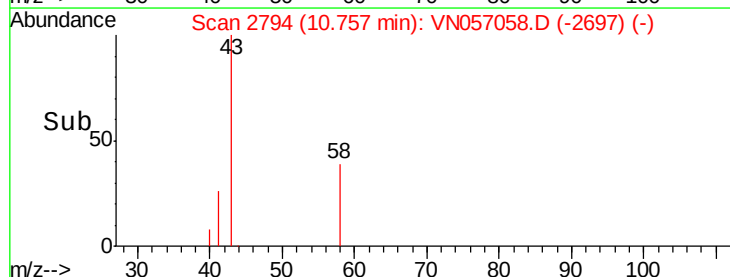
400

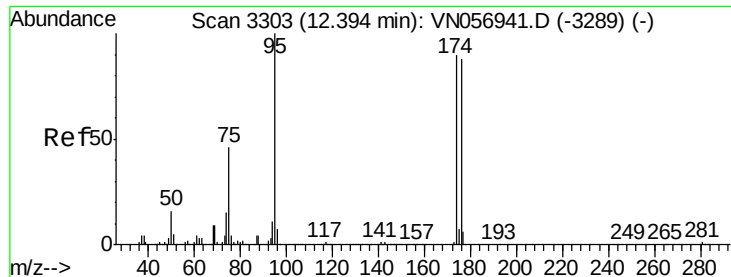
200

0

10.70 10.75 10.80

Time-->

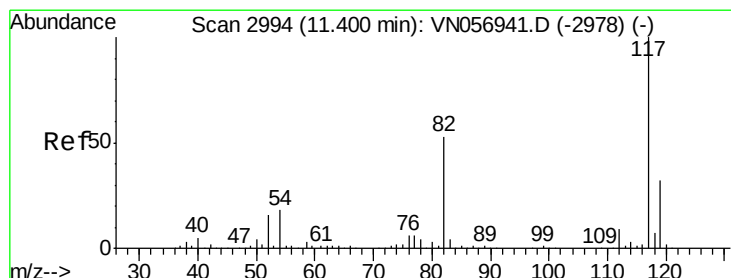
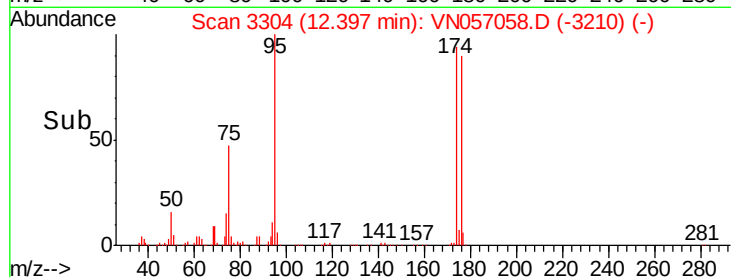
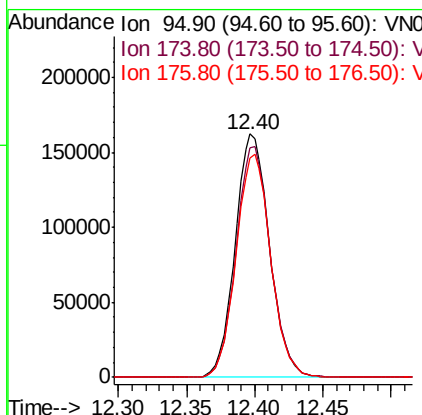
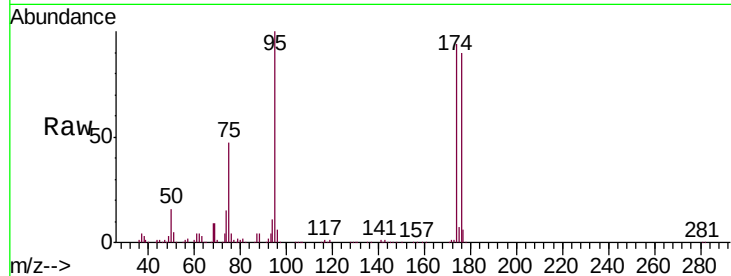




#62
4-Bromofluorobenzene
Concen: 42.022 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN057058.D
Acq: 2 Aug 2019 11:59

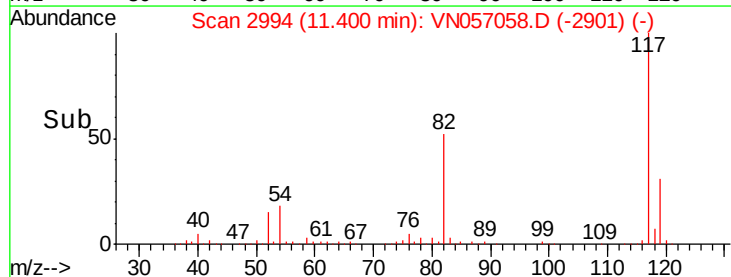
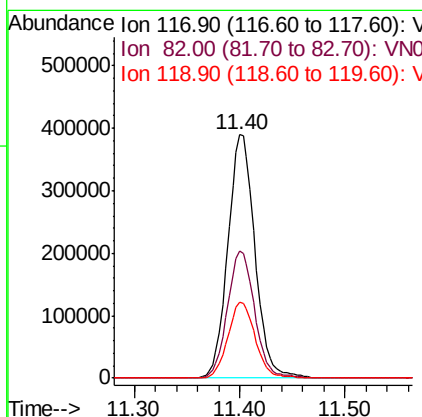
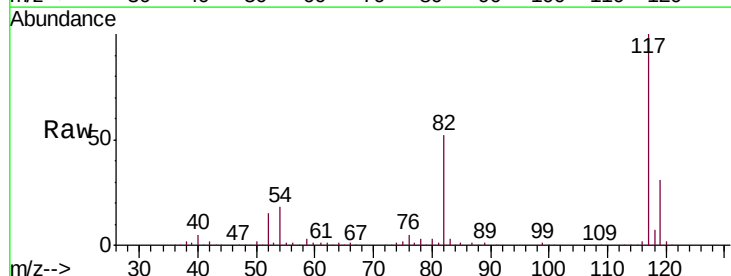
Instrument :
MSVOA_N
ClientSampleId :
SA-PZ133I-20190731RE

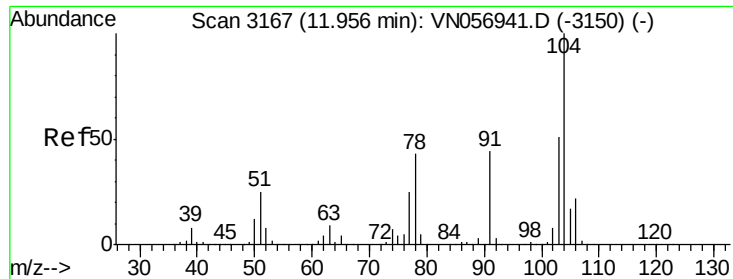
Tgt Ion: 95 Resp: 283611
Ion Ratio Lower Upper
95 100
174 94.8 0.0 182.2
176 92.2 0.0 179.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN057058.D
Acq: 2 Aug 2019 11:59

Tgt Ion: 117 Resp: 690947
Ion Ratio Lower Upper
117 100
82 52.4 42.2 63.4
119 31.2 25.8 38.6





#70

Styrene

Concen: 1.905 ug/l

RT: 11.96 min Scan# 3169

Delta R.T. 0.01 min

Lab File: VN057058.D

Acq: 2 Aug 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ133I-20190731RE

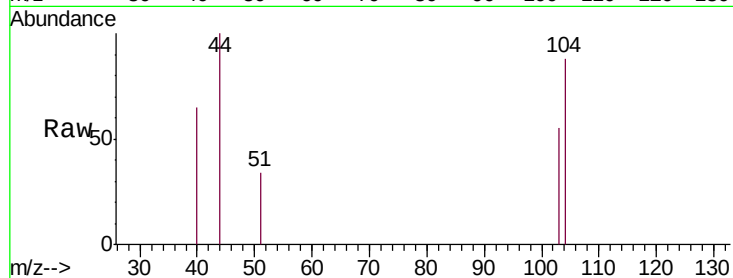
Tgt Ion:104 Resp: 616

Ion Ratio Lower Upper

104 100

78 0.0 38.1 57.1#

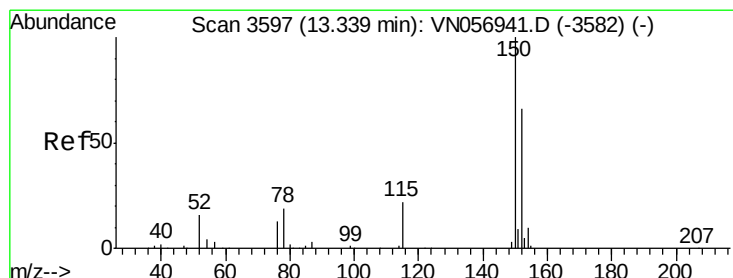
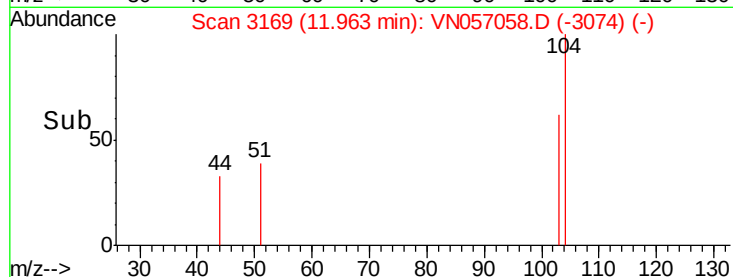
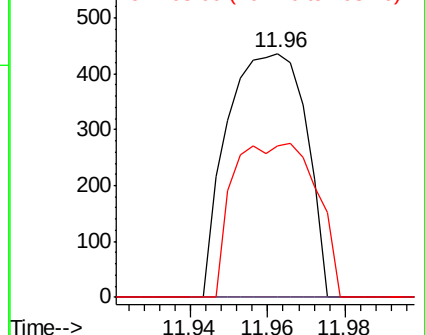
103 66.4 44.3 66.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): 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: VN057058.D

Acq: 2 Aug 2019 11:59

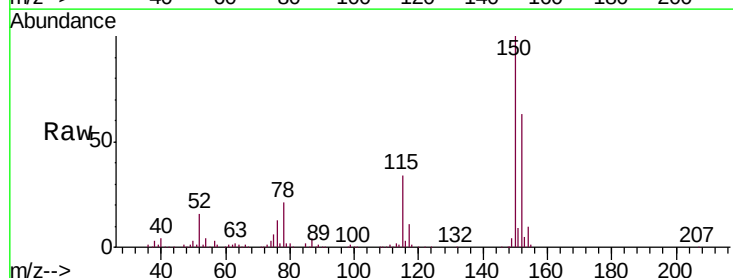
Tgt Ion:152 Resp: 183751

Ion Ratio Lower Upper

152 100

115 54.9 28.2 84.6

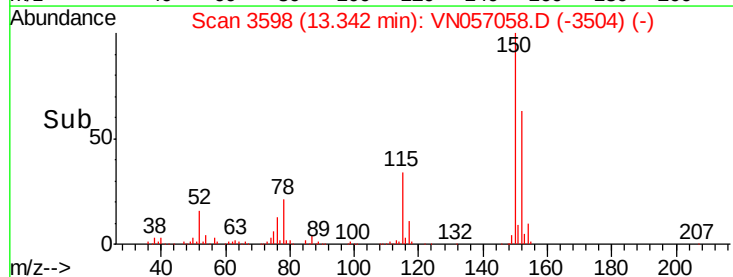
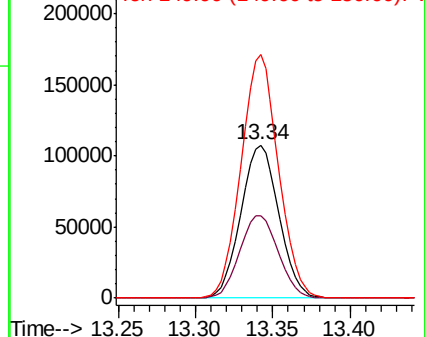
150 156.5 0.0 349.4

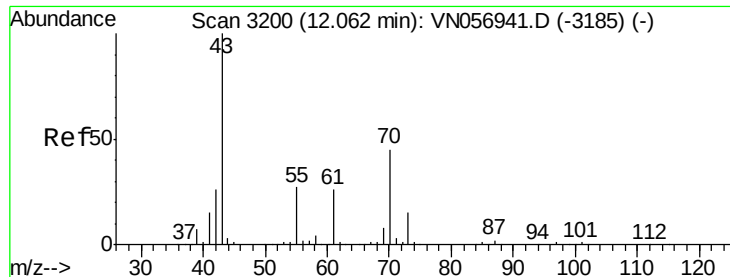


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyI acetate

Concen: 0.213 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.01 min

Lab File: VN057058.D

Acq: 2 Aug 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ133I-20190731RE

Tgt Ion: 43 Resp: 983

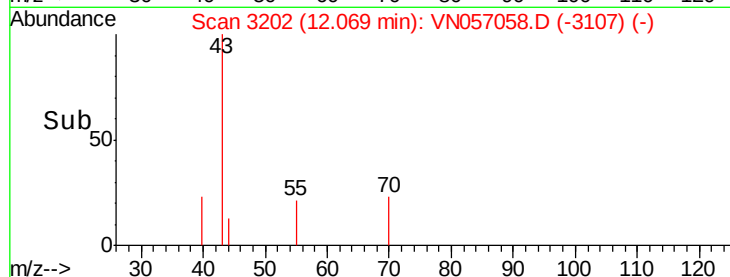
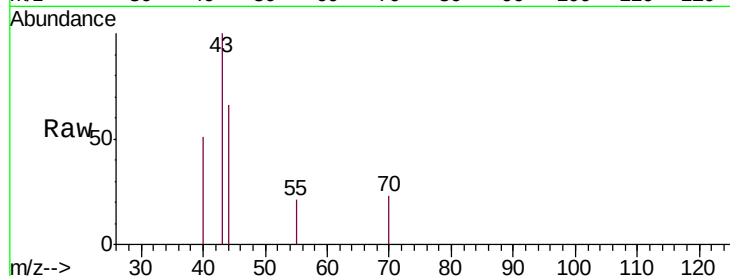
Ion Ratio Lower Upper

43 100

70 6.5 36.5 54.7#

55 3.2 21.4 32.0#

61 0.0 20.5 30.7#

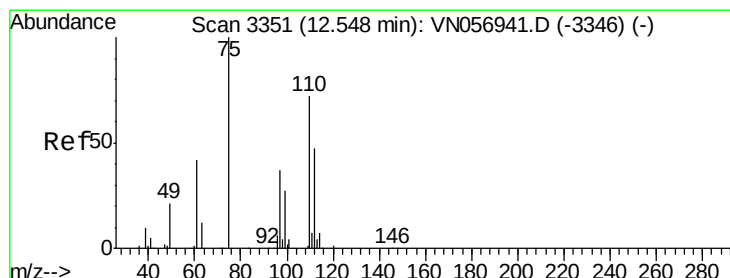
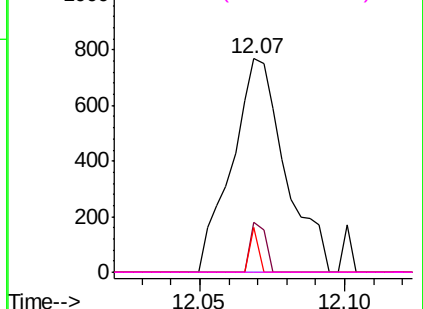


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 35.517 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN057058.D

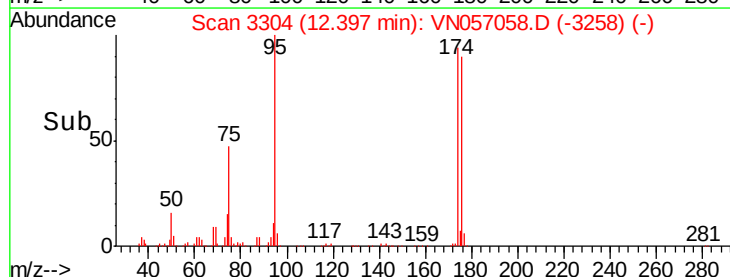
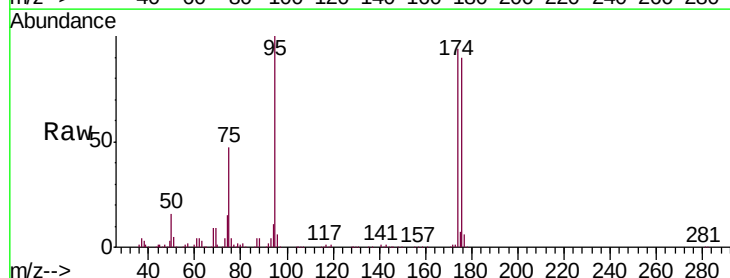
Acq: 2 Aug 2019 11:59

Tgt Ion: 75 Resp: 132538

Ion Ratio Lower Upper

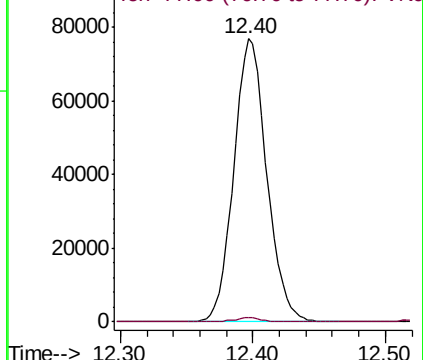
75 100

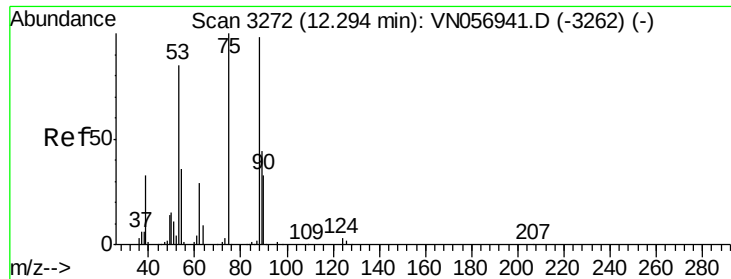
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 114.115 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN057058.D

Acq: 2 Aug 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ133I-20190731RE

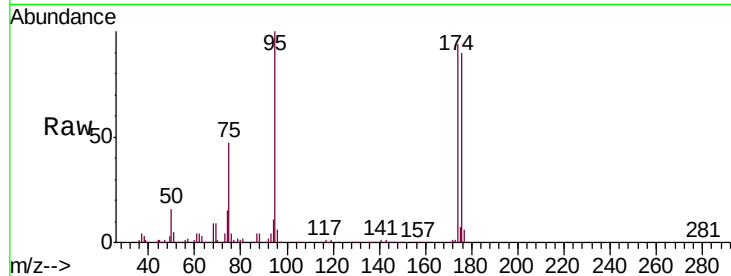
Tgt Ion: 75 Resp: 132538

Ion Ratio Lower Upper

75 100

53 0.0 69.3 103.9#

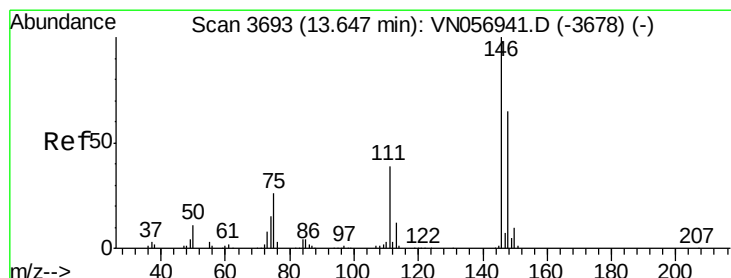
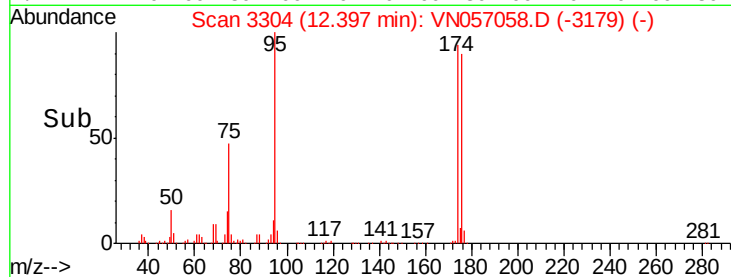
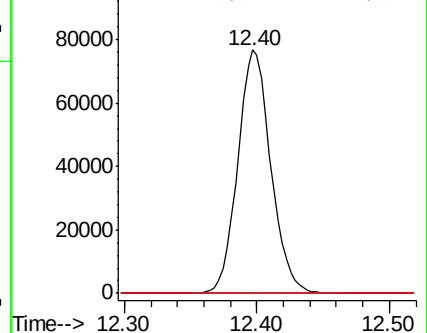
89 0.0 35.8 53.6#



Abundance Ion 74.90 (74.60 to 75.60): VN056941.D (-3262) (-)

Ion 53.00 (52.70 to 53.70): VN056941.D (-3262) (-)

Ion 88.90 (88.60 to 89.60): VN056941.D (-3262) (-)



#91

1,2-Dichlorobenzene

Concen: 0.237 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. 0.01 min

Lab File: VN057058.D

Acq: 2 Aug 2019 11:59

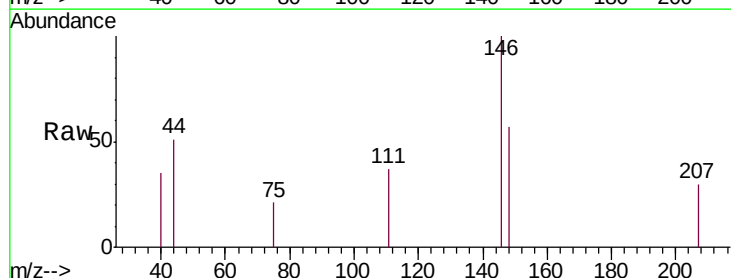
Tgt Ion: 146 Resp: 1471

Ion Ratio Lower Upper

146 100

111 32.0 19.4 58.4

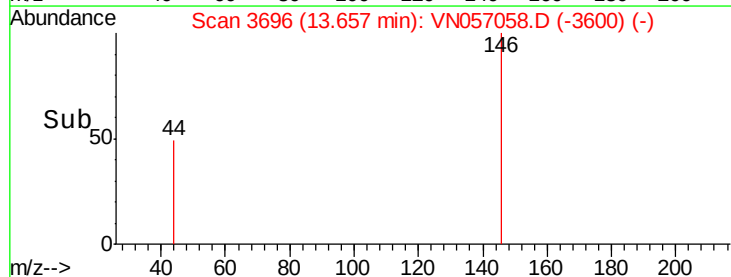
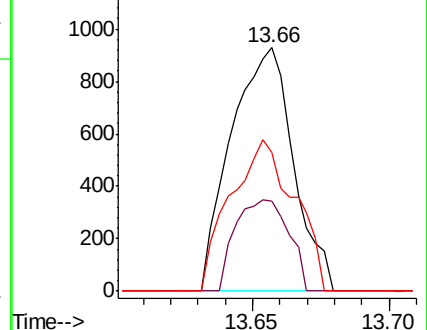
148 63.9 32.2 96.6

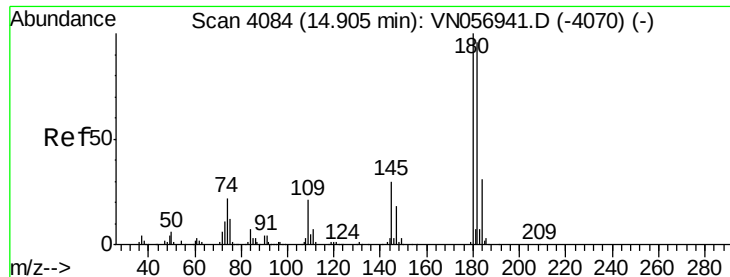


Abundance Ion 145.90 (145.60 to 146.60): VN056941.D (-3678) (-)

Ion 110.90 (110.60 to 111.60): VN056941.D (-3678) (-)

Ion 147.90 (147.60 to 148.60): VN056941.D (-3678) (-)

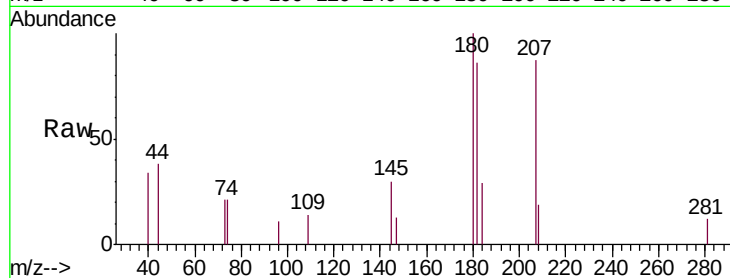




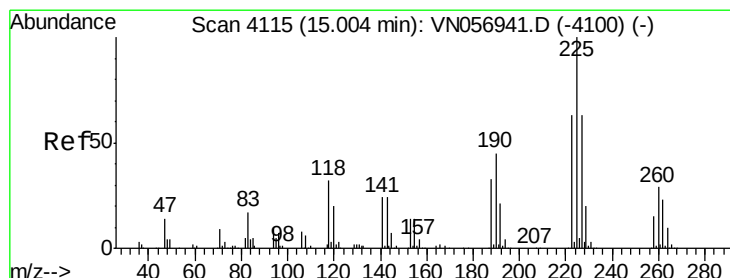
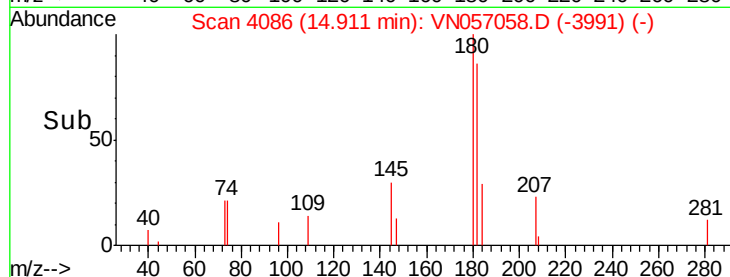
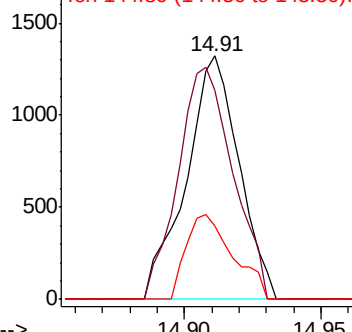
#93
 1,2,4-Trichlorobenzene
 Concen: 3.236 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN057058.D
 Acq: 2 Aug 2019 11:59

Instrument :
 MSVOA_N
 ClientSampleId :
 SA-PZ133I-20190731RE

Tgt Ion:180 Resp: 1774
 Ion Ratio Lower Upper
 180 100
 182 99.2 47.6 142.8
 145 30.9 14.2 42.8

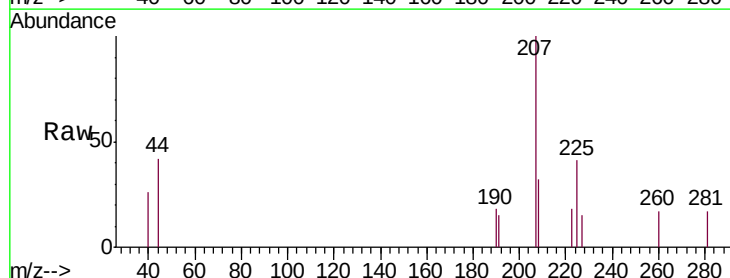


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

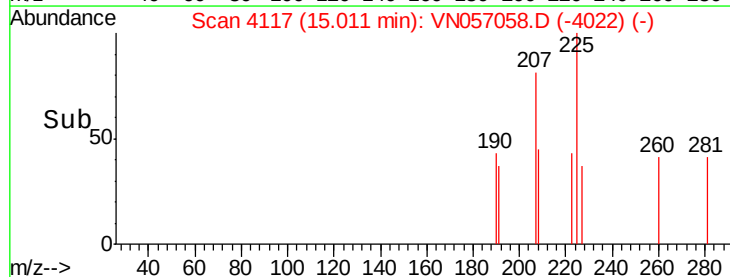
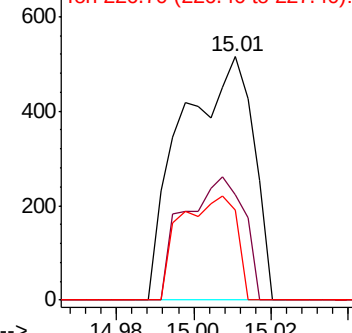


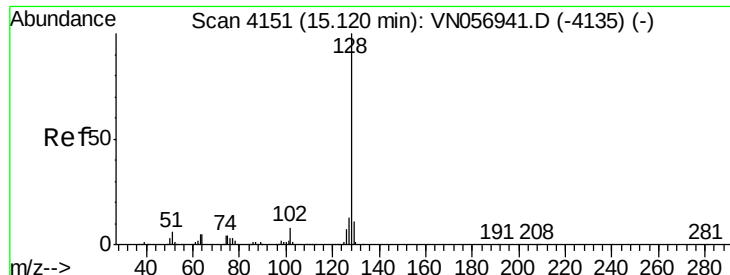
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.01 min
 Lab File: VN057058.D
 Acq: 2 Aug 2019 11:59

Tgt Ion:225 Resp: 662
 Ion Ratio Lower Upper
 225 100
 223 42.3 30.8 92.4
 227 33.5 31.1 93.5



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 4.196 ug/l

RT: 15.12 min Scan# 4152

Delta R.T. 0.00 min

Lab File: VN057058.D

Acq: 2 Aug 2019 11:59

Instrument :

MSVOA_N

ClientSampleId :

SA-PZ133I-20190731RE

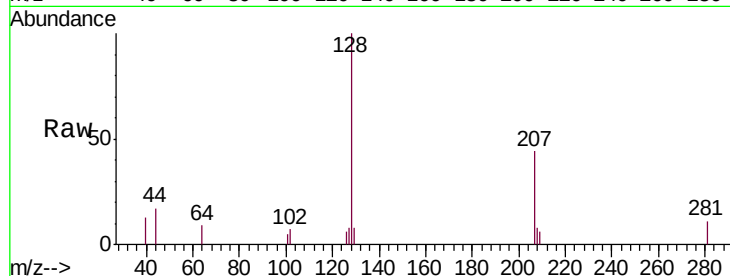
Tgt Ion:128 Resp: 5117

Ion Ratio Lower Upper

128 100

127 5.5 10.0 15.0#

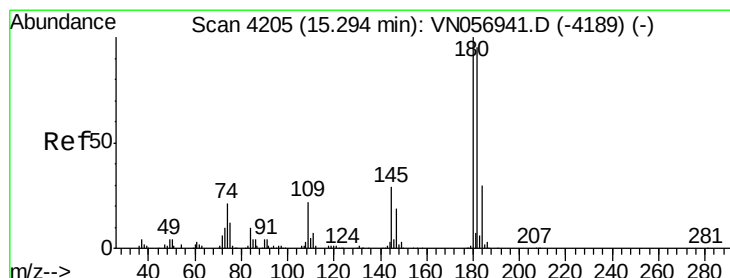
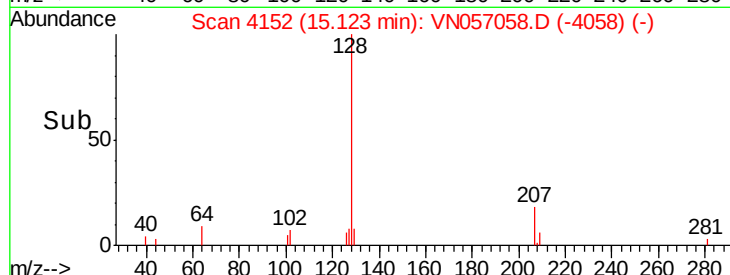
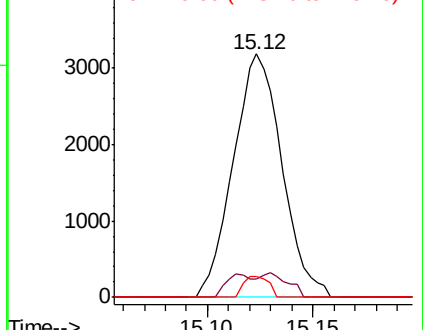
129 4.4 8.7 13.1#



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: 2.756 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN057058.D

Acq: 2 Aug 2019 11:59

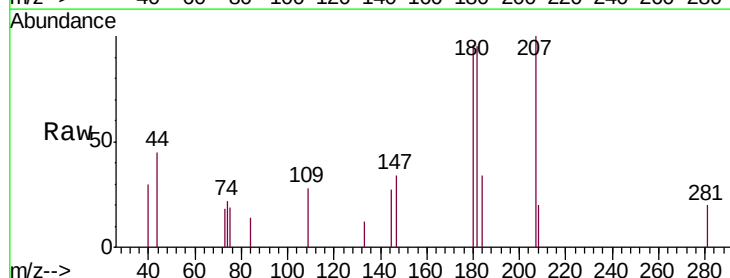
Tgt Ion:180 Resp: 2381

Ion Ratio Lower Upper

180 100

182 90.2 48.0 144.2

145 26.8 15.0 45.0



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

