

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
 Data File : VN055160.D
 Acq On : 20 Apr 2019 00:37
 Operator : JC/SP
 Sample : K2199-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-041819-B

Quant Time: Apr 20 04:29:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	526440	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	835796	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	685012	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	208768	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	340543	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	
35) Dibromofluoromethane	7.59	113	270792	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
50) Toluene-d8	10.09	98	992024	49.62	ug/l	0.00
Spiked Amount			Recovery	=	99.24%	
62) 4-Bromofluorobenzene	12.40	95	276311	42.51	ug/l	0.00
Spiked Amount			Recovery	=	85.02%	

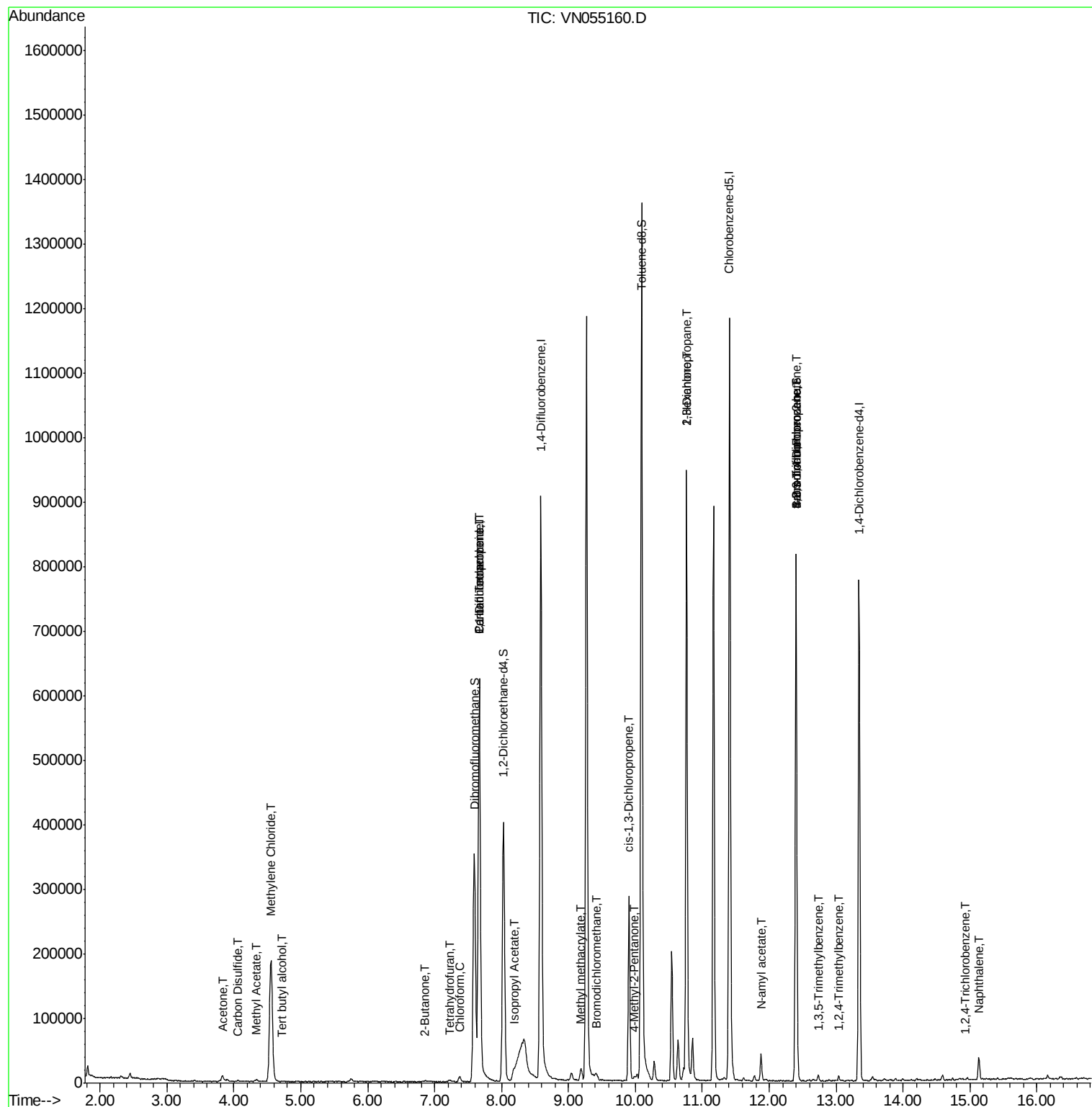
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	94	0.245	ug/l #	72
16) Acetone	3.83	43	14103	7.425	ug/l #	84
17) Carbon Disulfide	4.06	76	2763	0.205	ug/l #	75
18) Methyl Acetate	4.34	43	6625	0.780	ug/l #	79
20) Methylene Chloride	4.55	84	134091	20.083	ug/l	97
25) 2-Butanone	6.84	43	1213	0.428	ug/l #	53
29) Tetrahydrofuran	7.23	42	2599	1.398	ug/l #	67
30) Chloroform	7.38	83	8462	0.778	ug/l #	82
31) Cyclohexane	7.66	56	11022	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	38813	4.926	ug/l #	50
38) Carbon Tetrachloride	7.67	117	49702	6.630	ug/l #	16
43) Isopropyl Acetate	8.18	43	24118	2.440	ug/l #	86
47) Bromodichloromethane	9.40	83	1903	0.245	ug/l #	74
48) Methyl methacrylate	9.18	41	7350	1.500	ug/l #	17
51) 4-Methyl-2-Pentanone	9.99	43	4479	0.784	ug/l	93
54) cis-1,3-Dichloropropene	9.90	75	46582	5.526	ug/l #	67
57) 1,3-Dichloropropane	10.76	76	9192	1.030	ug/l #	43
59) 2-Hexanone	10.76	43	146625	40.883	ug/l #	54
71) Bromoform	12.40	173	2376	0.817	ug/l #	1
74) N-amyl acetate	11.88	43	14367	2.755	ug/l #	56
76) 1,2,3-Trichloropropane	12.40	75	143055	38.106	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4365	0.292	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	143055	152.379	ug/l #	2
84) 1,2,4-Trimethylbenzene	13.04	105	4866	0.343	ug/l	100
93) 1,2,4-Trichlorobenzene	14.92	180	31	2.686	ug/l #	12
95) Naphthalene	15.13	128	29180	6.736	ug/l	98

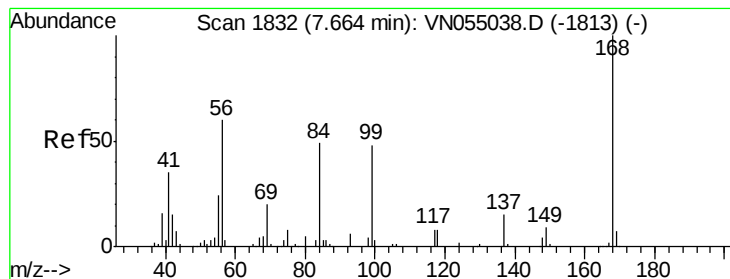
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN041919\
Data File : VN055160.D
Acq On : 20 Apr 2019 00:37
Operator : JC/SP
Sample : K2199-16
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 33 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
OR-03-041819-B

Quant Time: Apr 20 04:29:39 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
Quant Title : SW846 8260
QLast Update : Mon Apr 15 12:28:28 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055160.D

Acq: 20 Apr 2019 00:37

Instrument :

MSVOA_N

ClientSampleId :

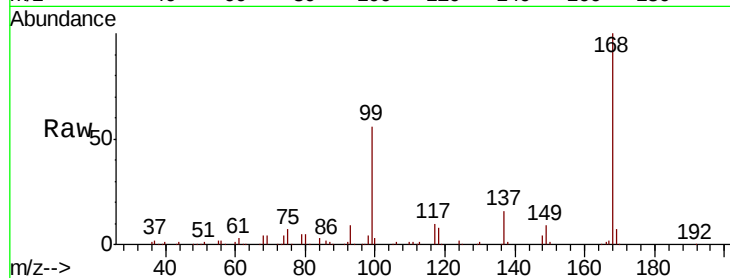
OR-03-041819-B

Tot Ion:168 Resp: 526440

Ion Ratio Lower Upper

168 100

99 55.6 41.9 62.9



Abundance Ion 167.90 (167.60 to 168.60): VN055038.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN055038.D (-1813) (-)

7.67

250000

200000

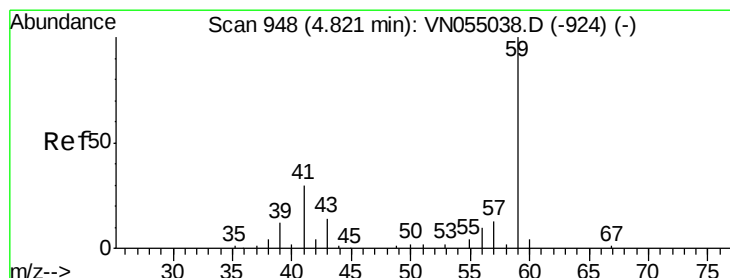
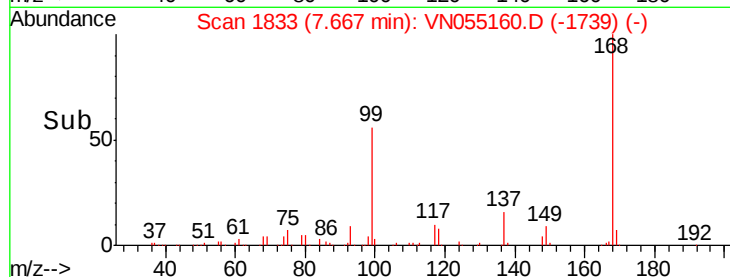
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.245 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.09 min

Lab File: VN055160.D

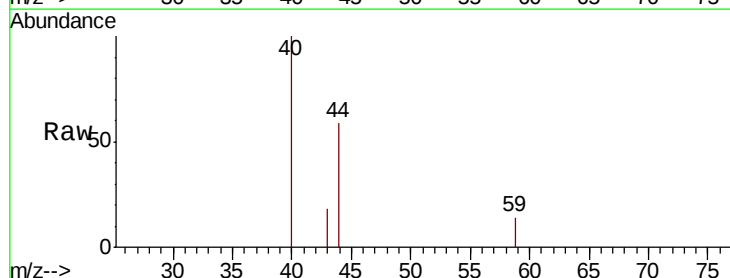
Acq: 20 Apr 2019 00:37

Tgt Ion: 59 Resp: 94

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN055038.D (-924) (-)

Ion 57.00 (56.70 to 57.70): VN055038.D (-924) (-)

4.73

200

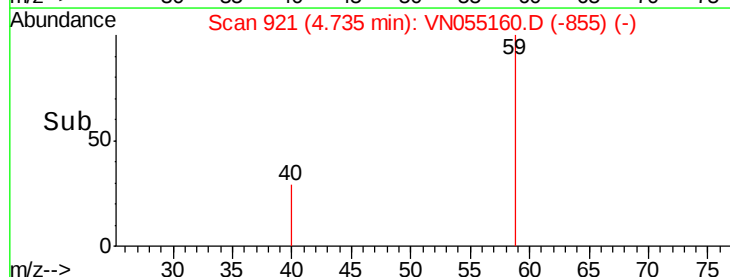
150

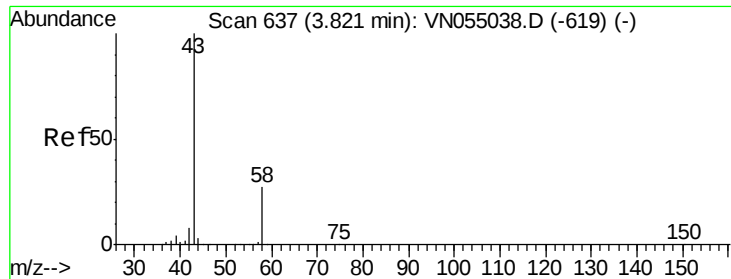
100

50

0

Time-->





#16

Acetone

Concen: 7.425 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN055160.D

Acq: 20 Apr 2019 00:37

Instrument :

MSVOA_N

ClientSampleId :

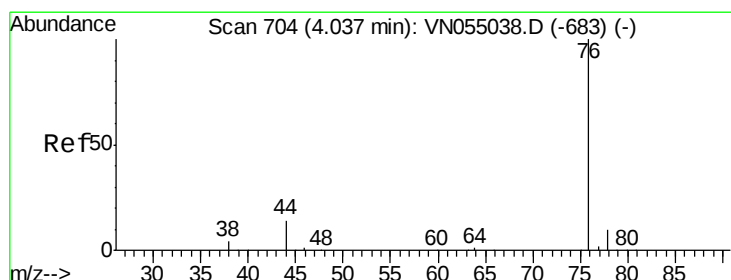
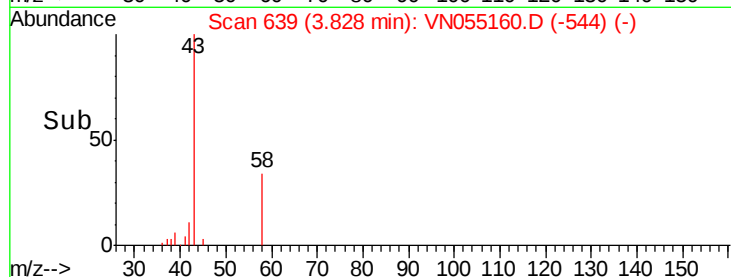
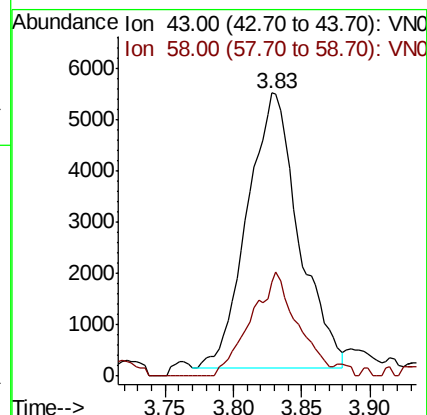
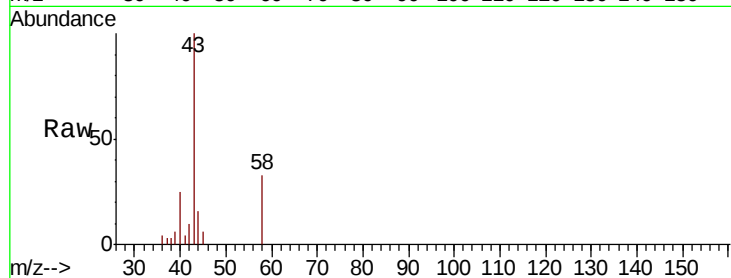
OR-03-041819-B

Tot Ion: 43 Resp: 14103

Ion Ratio Lower Upper

43 100

58 34.0 20.9 31.3#



#17

Carbon Disulfide

Concen: 0.205 ug/l

RT: 4.06 min Scan# 711

Delta R.T. 0.02 min

Lab File: VN055160.D

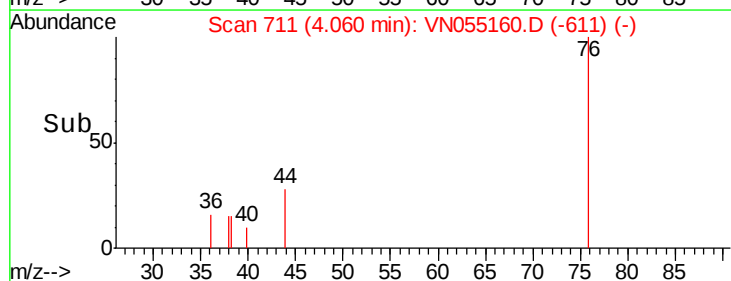
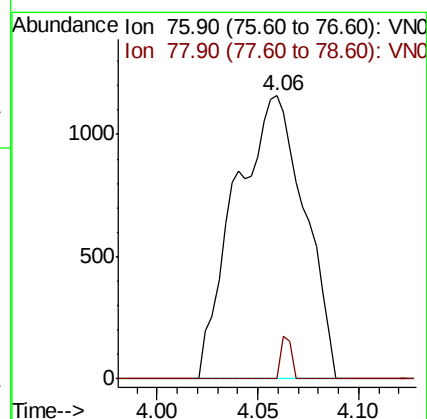
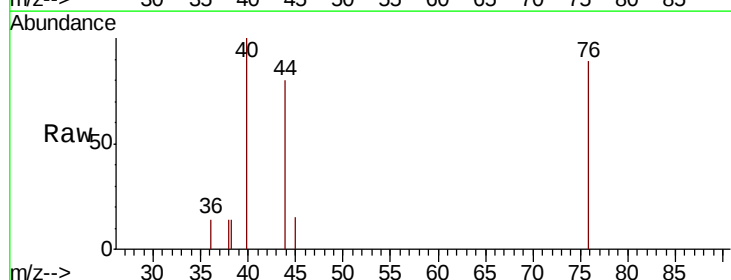
Acq: 20 Apr 2019 00:37

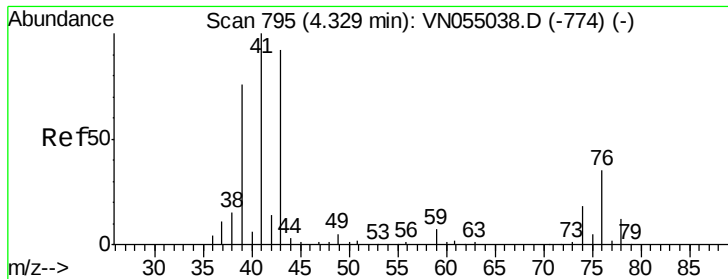
Tgt Ion: 76 Resp: 2763

Ion Ratio Lower Upper

76 100

78 0.0 7.2 10.8#





#18

Methyl Acetate

Concen: 0.780 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN055160.D

Acq: 20 Apr 2019 00:37

Instrument :

MSVOA_N

ClientSampleId :

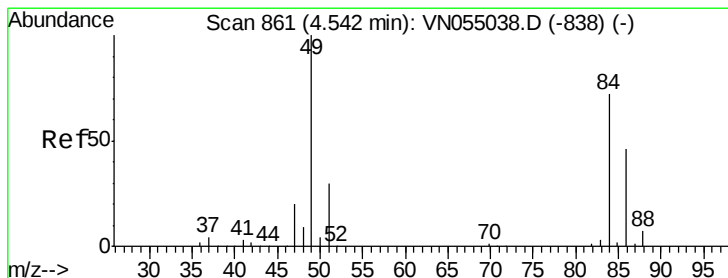
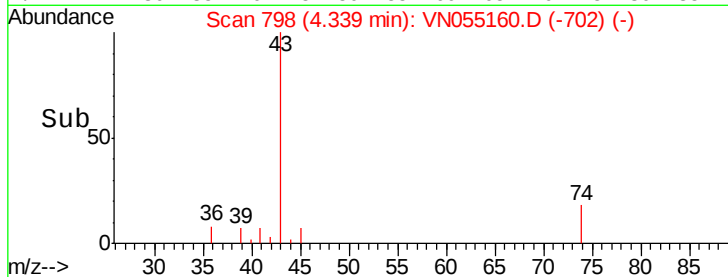
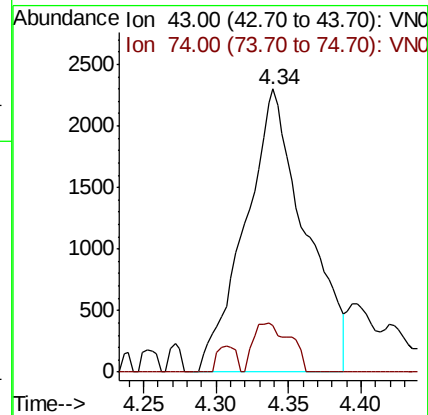
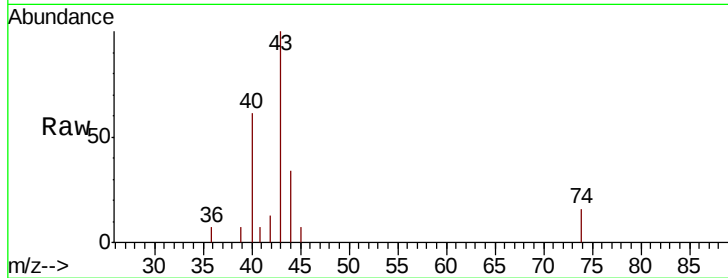
OR-03-041819-B

Tot Ion: 43 Resp: 6625

Ion Ratio Lower Upper

43 100

74 10.6 16.1 24.1#



#20

Methylene Chloride

Concen: 20.083 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.01 min

Lab File: VN055160.D

Acq: 20 Apr 2019 00:37

Tgt Ion: 84 Resp: 134091

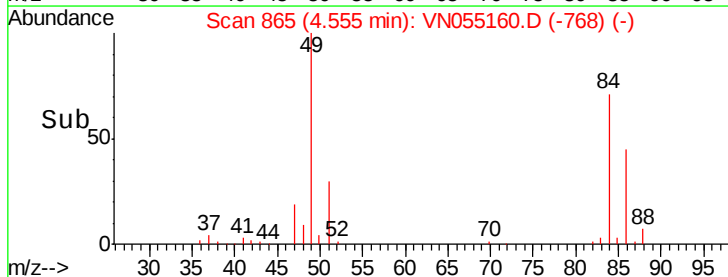
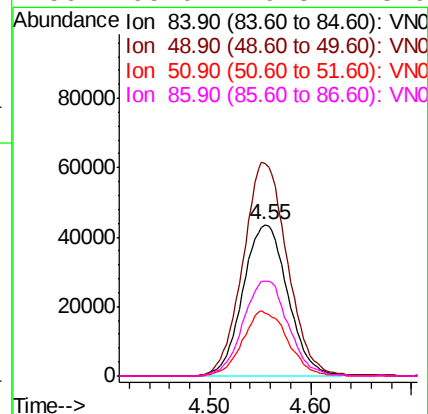
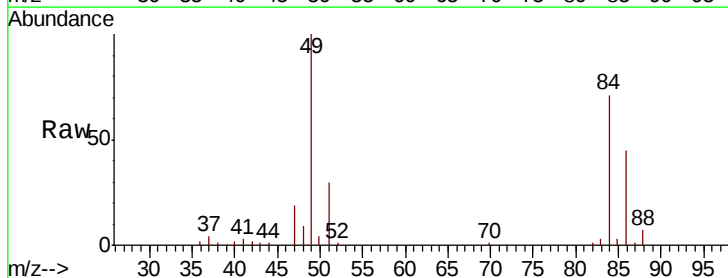
Ion Ratio Lower Upper

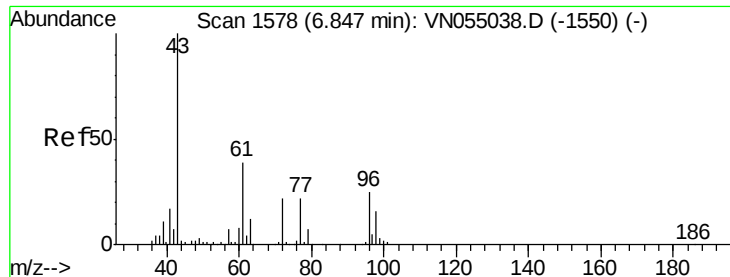
84 100

49 140.7 109.4 164.2

51 41.8 32.2 48.4

86 63.0 49.3 73.9





#25

2-Butanone

Concen: 0.428 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VN055160.D

Acq: 20 Apr 2019 00:37

Instrument :

MSVOA_N

ClientSampleId :

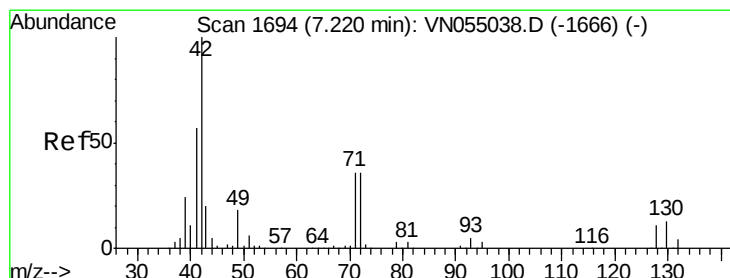
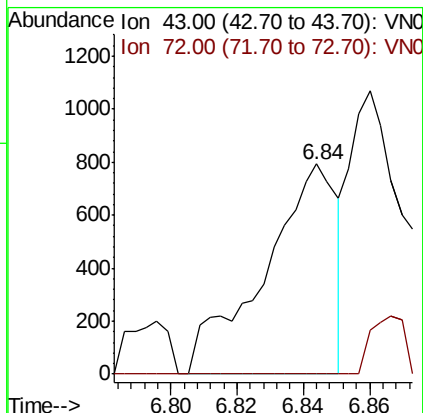
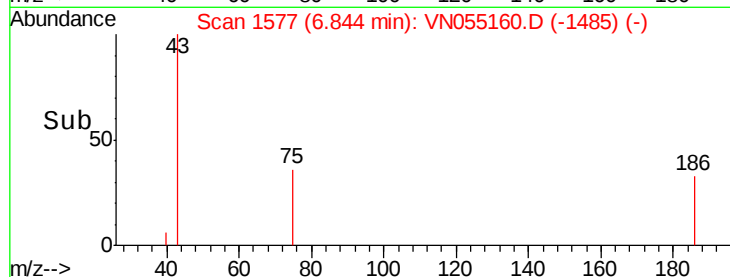
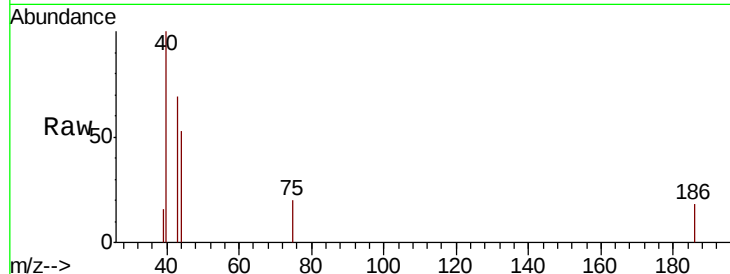
OR-03-041819-B

Tot Ion: 43 Resp: 1213

Ion Ratio Lower Upper

43 100

72 0.0 18.1 27.1#



#29

Tetrahydrofuran

Concen: 1.398 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.01 min

Lab File: VN055160.D

Acq: 20 Apr 2019 00:37

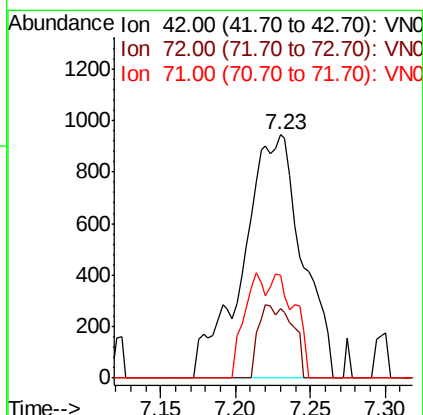
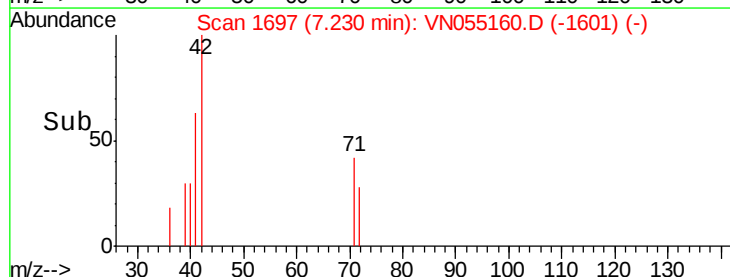
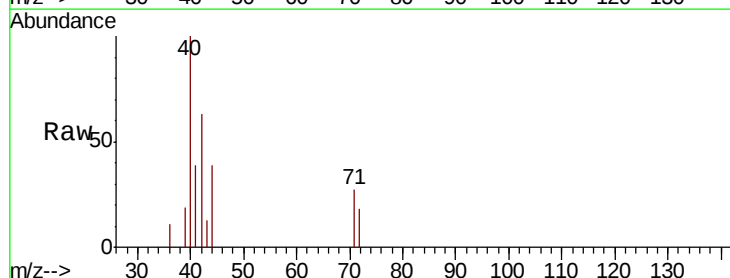
Tgt Ion: 42 Resp: 2599

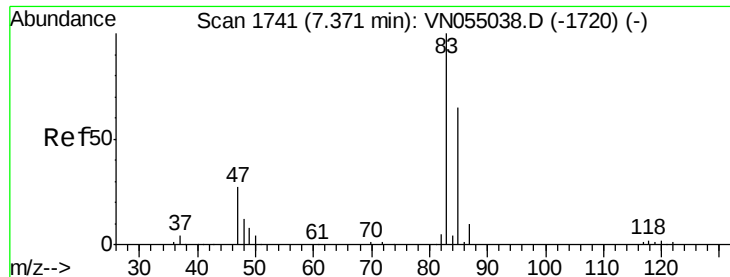
Ion Ratio Lower Upper

42 100

72 17.2 29.4 44.0#

71 15.5 27.8 41.6#

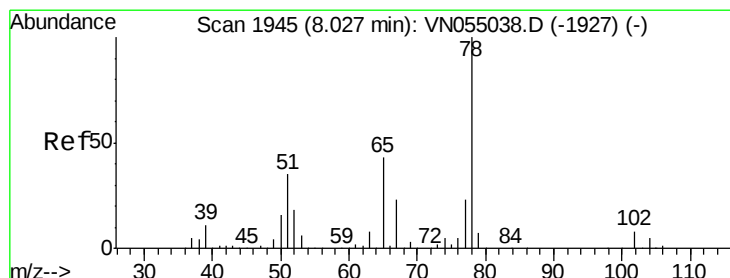
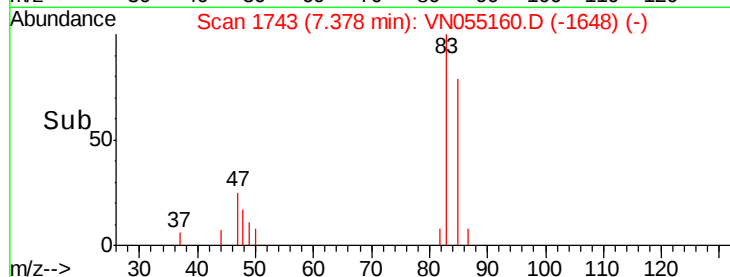
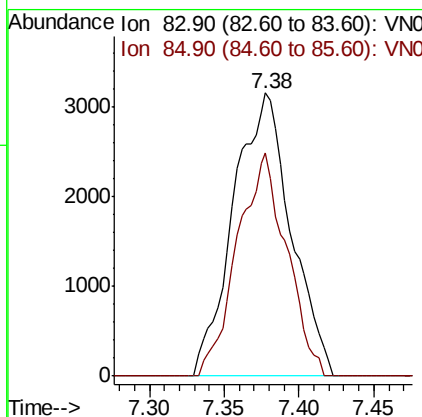
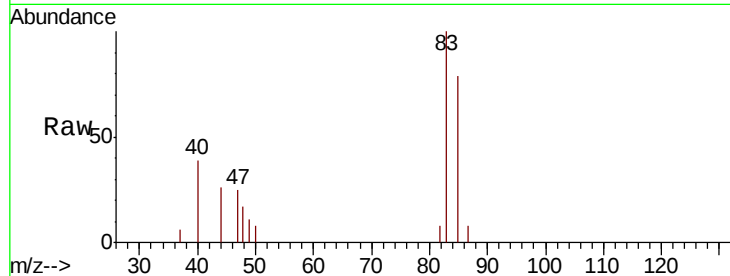




#30
Chloroform
Concen: 0.778 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.01 min
Lab File: VN055160.D
Acq: 20 Apr 2019 00:37

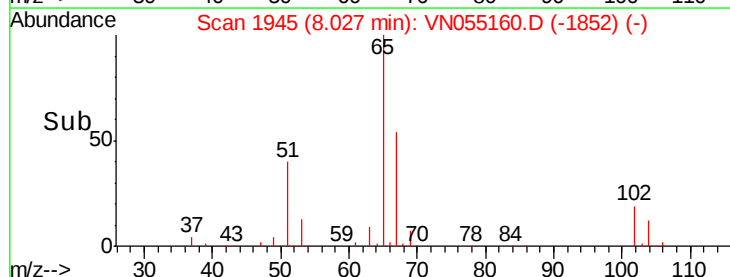
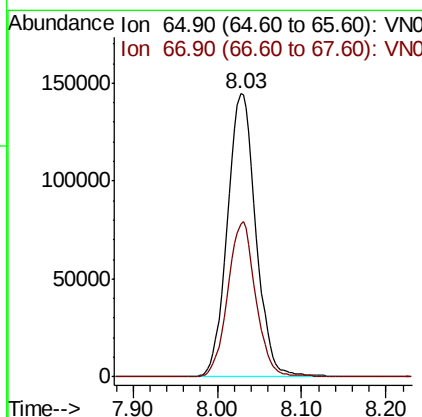
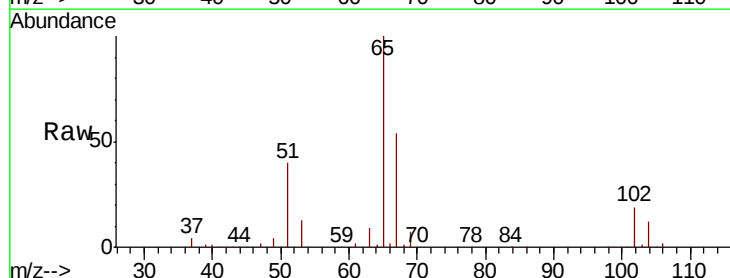
Instrument :
MSVOA_N
ClientSampleId :
OR-03-041819-B

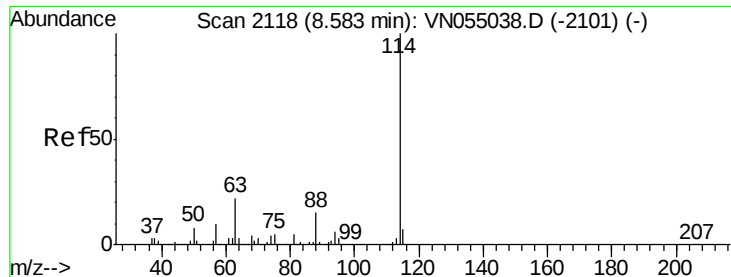
Tot Ion: 83 Resp: 8462
Ion Ratio Lower Upper
83 100
85 79.1 51.8 77.6#



#33
1,2-Dichloroethane-d4
Concen: 48.665 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN055160.D
Acq: 20 Apr 2019 00:37

Tgt Ion: 65 Resp: 340543
Ion Ratio Lower Upper
65 100
67 53.9 0.0 106.4

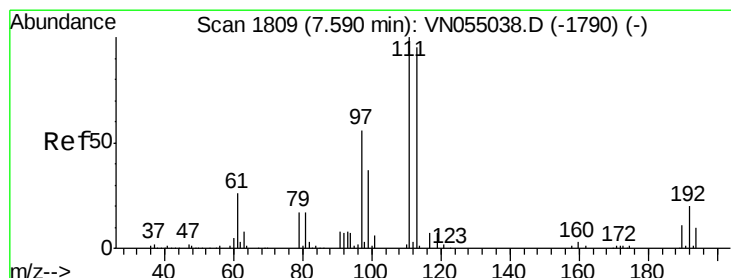
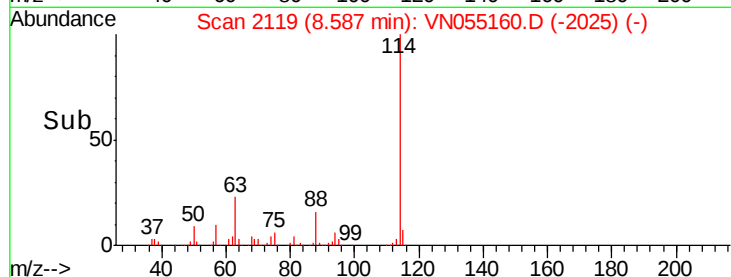
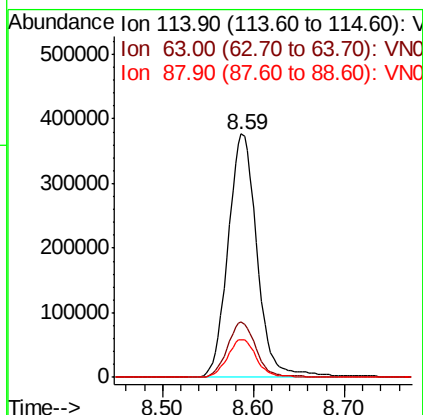
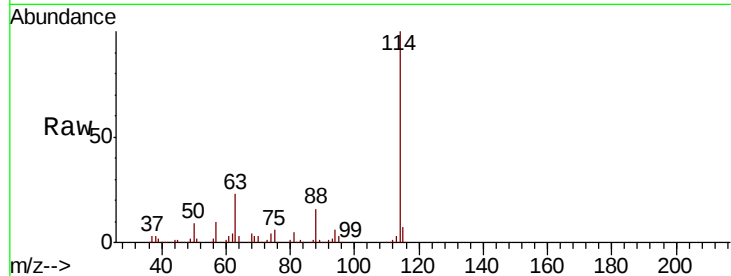




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055160.D
 Acq: 20 Apr 2019 00:37

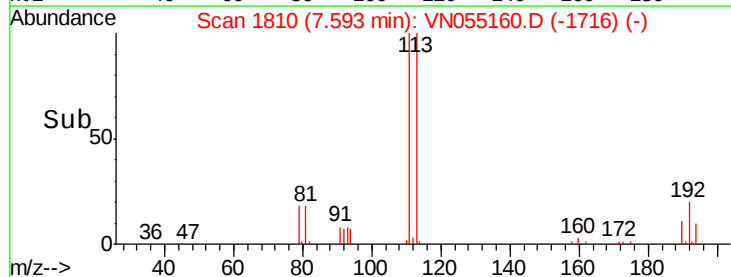
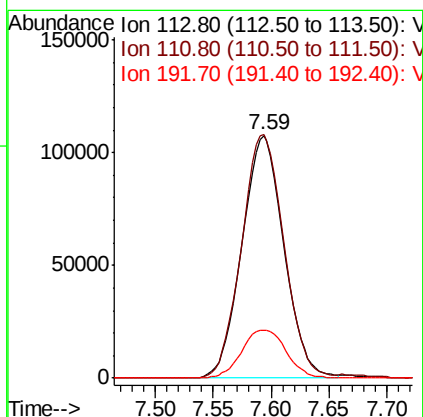
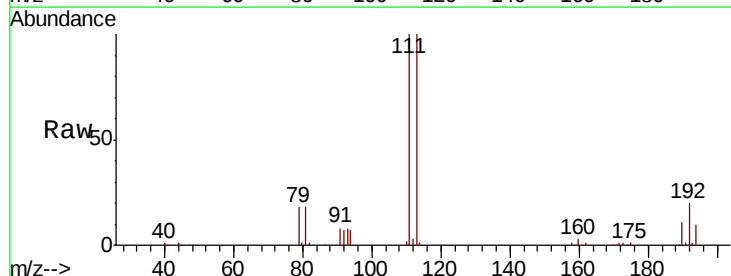
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-041819-B

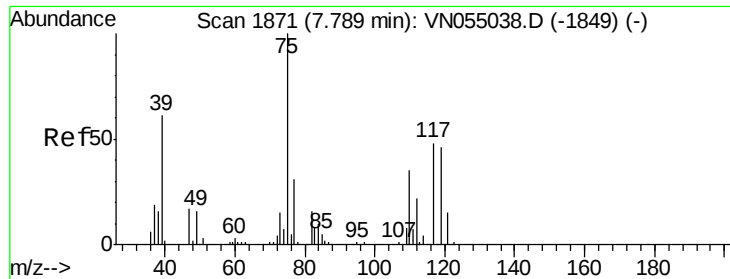
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	45.2
88	15.7	0.0	31.8



#35
 Dibromofluoromethane
 Concen: 48.480 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055160.D
 Acq: 20 Apr 2019 00:37

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.6	82.1	123.1
192	21.0	16.5	24.7

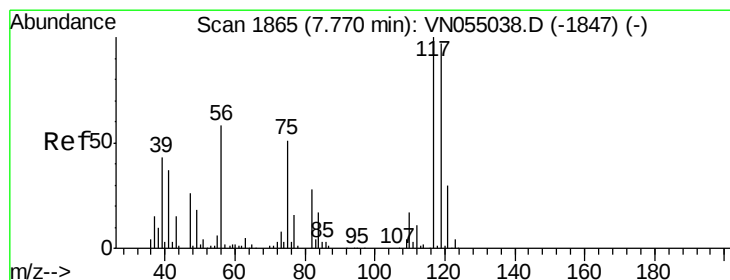
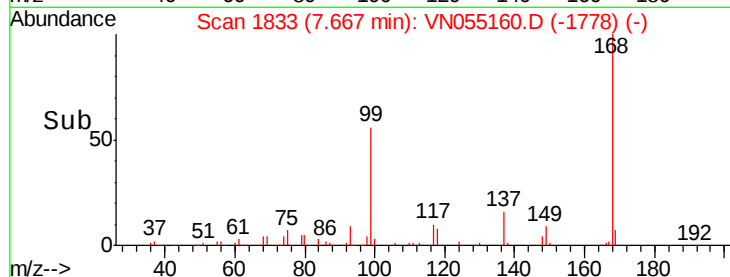
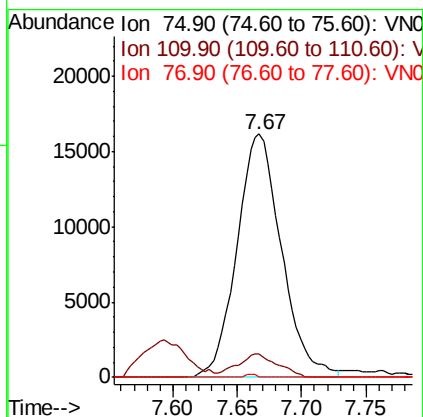
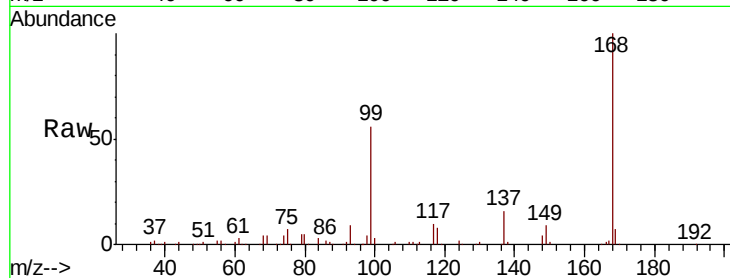




#36
 1,1-Dichloropropene
 Concen: 4.926 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN055160.D
 Acq: 20 Apr 2019 00:37

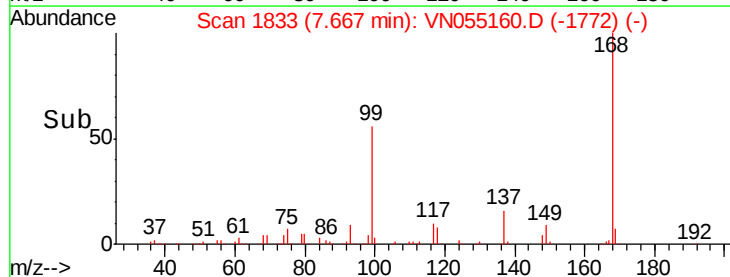
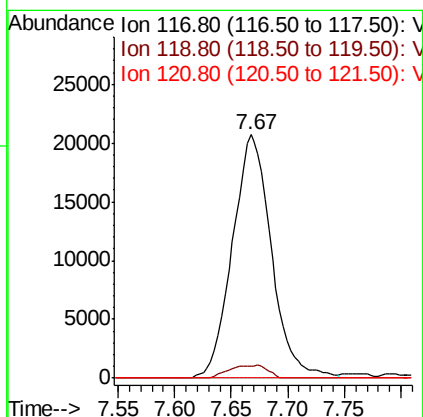
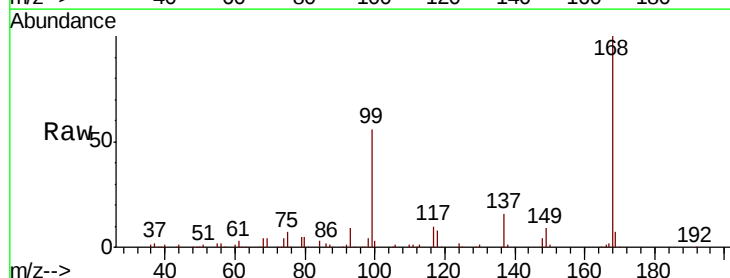
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-041819-B

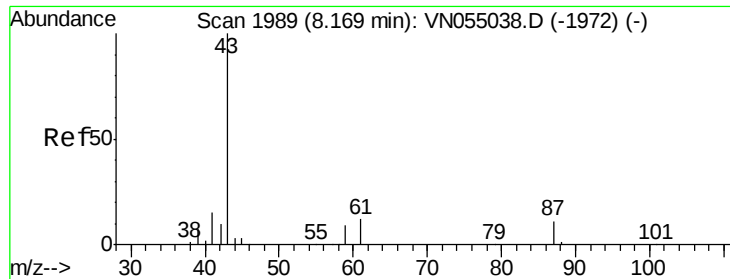
Tot Ion: 75 Resp: 38813
 Ion Ratio Lower Upper
 75 100
 110 8.7 17.5 52.5#
 77 0.3 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 6.630 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.10 min
 Lab File: VN055160.D
 Acq: 20 Apr 2019 00:37

Tgt Ion: 117 Resp: 49702
 Ion Ratio Lower Upper
 117 100
 119 4.9 76.3 114.5#
 121 0.0 23.9 35.9#





#43

Isopropyl Acetate

Concen: 2.440 ug/l

RT: 8.18 min Scan# 1992

Delta R.T. 0.01 min

Lab File: VN055160.D

Acq: 20 Apr 2019 00:37

Instrument :

MSVOA_N

ClientSampleId :

OR-03-041819-B

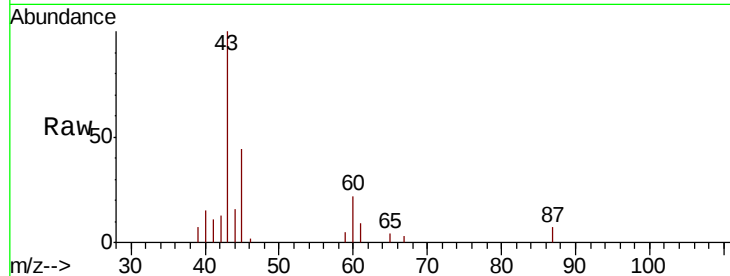
Tot Ion: 43 Resp: 24118

Ion Ratio Lower Upper

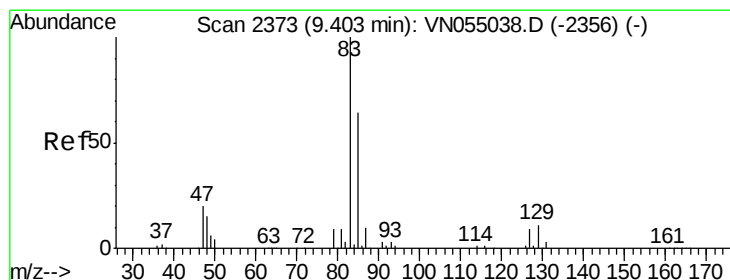
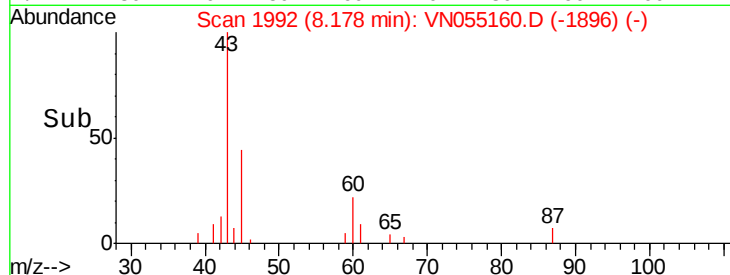
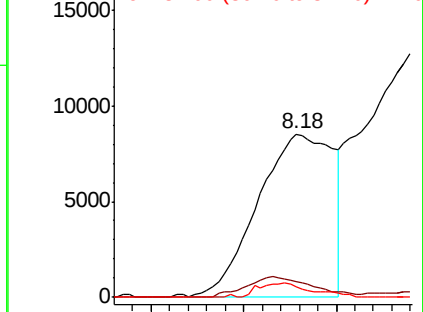
43 100

61 11.3 14.3 21.5#

87 6.3 8.6 13.0#



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



#47

Bromodichloromethane

Concen: 0.245 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN055160.D

Acq: 20 Apr 2019 00:37

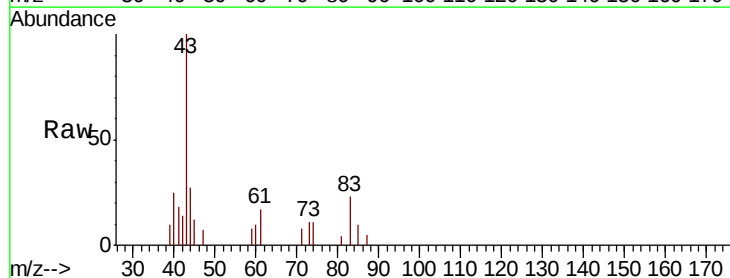
Tgt Ion: 83 Resp: 1903

Ion Ratio Lower Upper

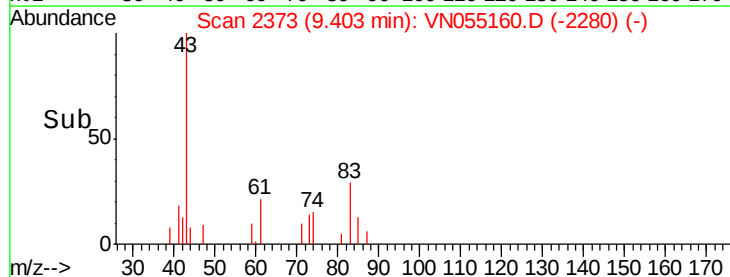
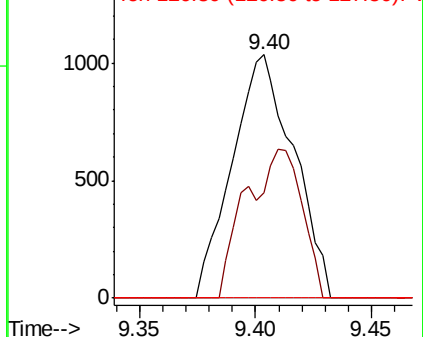
83 100

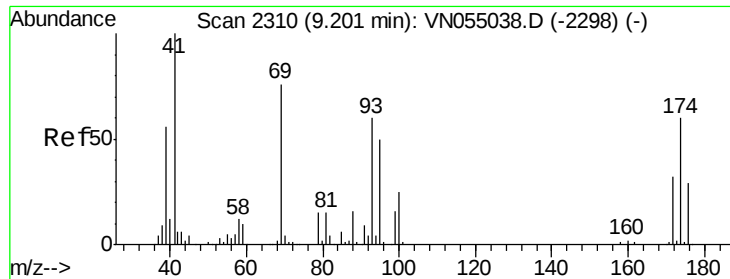
85 43.4 51.2 76.8#

127 0.0 6.8 10.2#



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 84.90 (84.60 to 85.60): VNO
Ion 126.80 (126.50 to 127.50): V

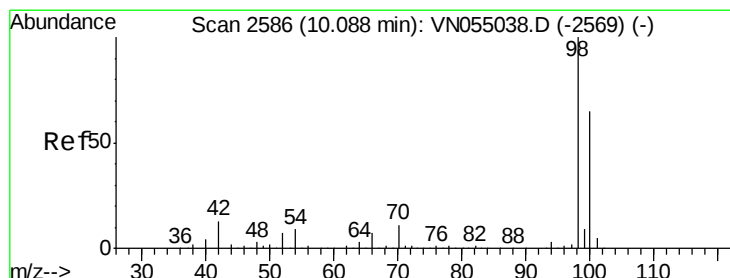
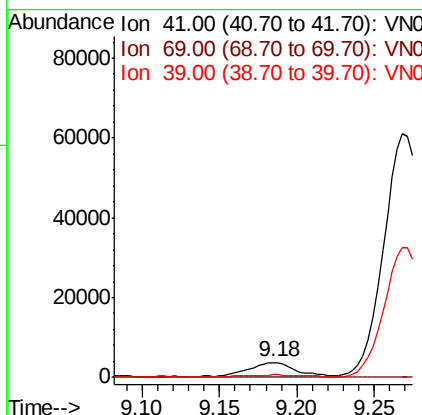
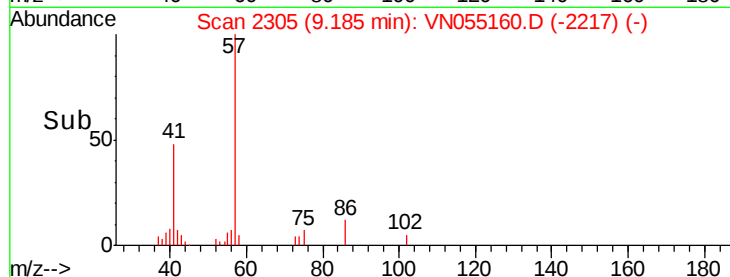
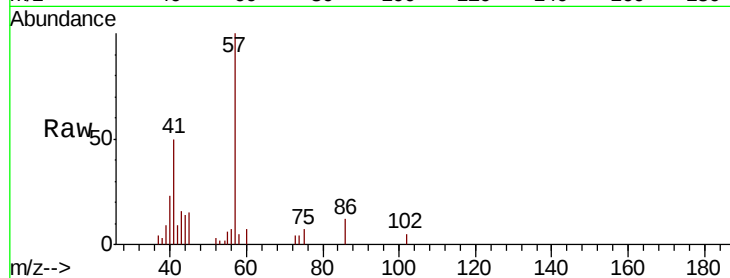




#48
Methyl methacrylate
Concen: 1.500 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN055160.D
Acq: 20 Apr 2019 00:37

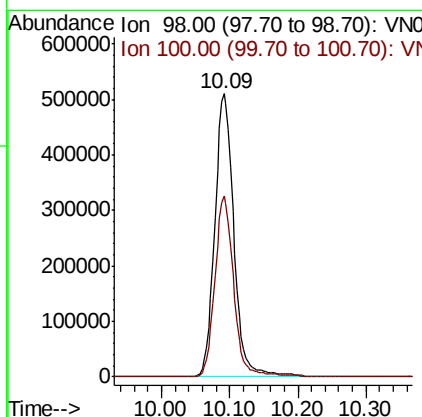
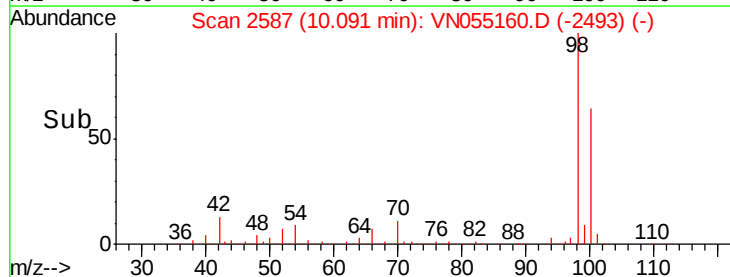
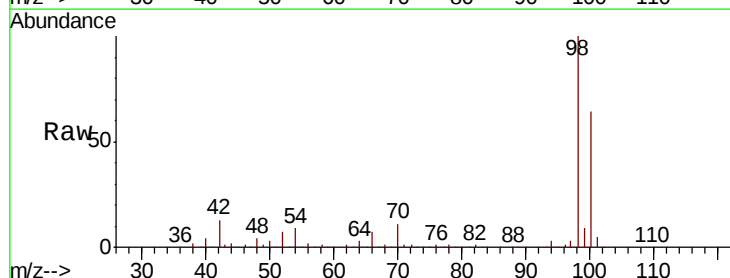
Instrument :
MSVOA_N
ClientSampleId :
OR-03-041819-B

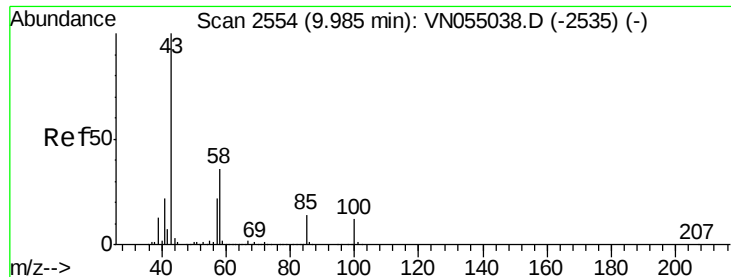
Tot Ion: 41 Resp: 7350
Ion Ratio Lower Upper
41 100
69 0.0 60.5 90.7#
39 0.0 43.9 65.9#



#50
Toluene-d8
Concen: 49.622 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN055160.D
Acq: 20 Apr 2019 00:37

Tgt Ion: 98 Resp: 992024
Ion Ratio Lower Upper
98 100
100 63.3 51.1 76.7

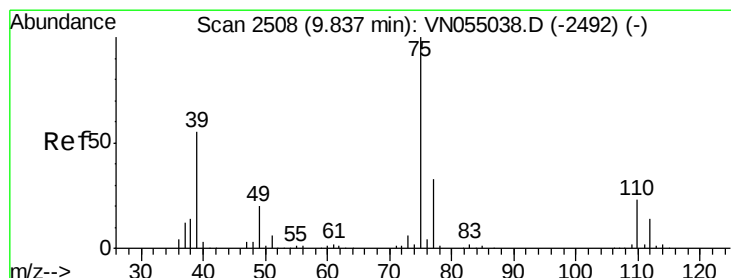
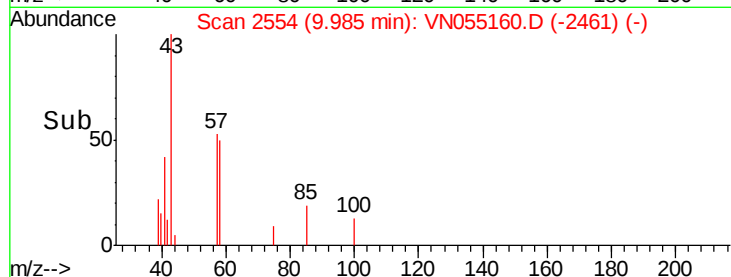
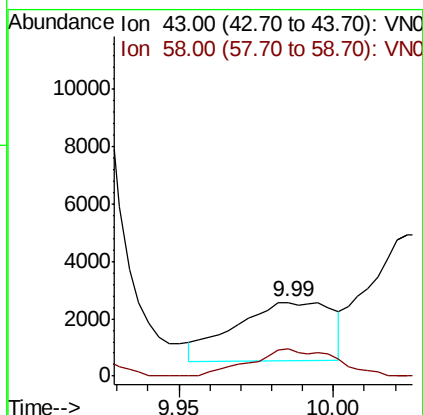
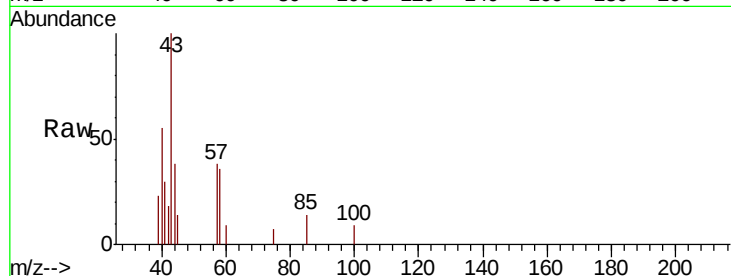




#51
 4-Methyl-2-Pentanone
 Concen: 0.784 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN055160.D
 Acq: 20 Apr 2019 00:37

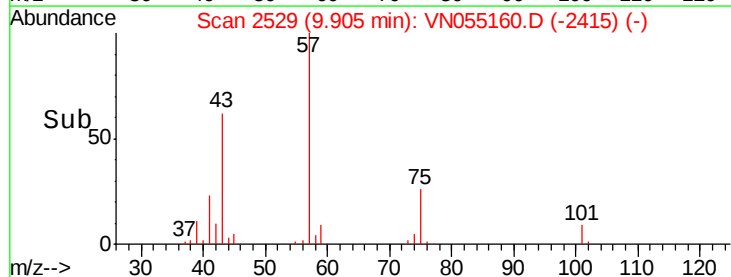
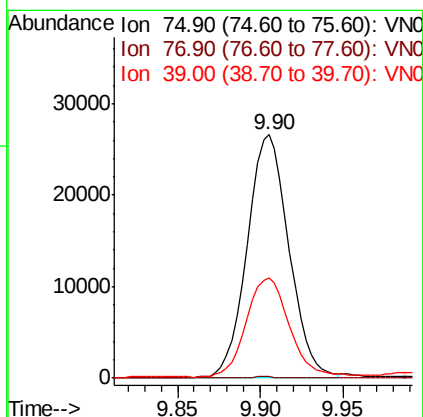
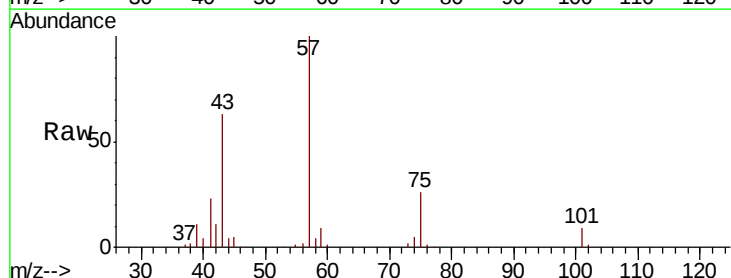
Instrument :
 MSVOA_N
 ClientSampleID :
 OR-03-041819-B

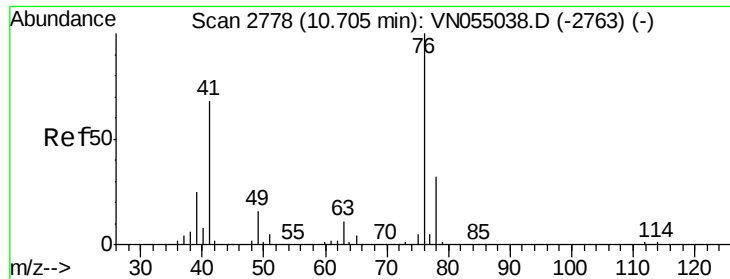
Tot Ion: 43 Resp: 4479
 Ion Ratio Lower Upper
 43 100
 58 40.5 29.0 43.4



#54
 cis-1,3-Dichloropropene
 Concen: 5.526 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN055160.D
 Acq: 20 Apr 2019 00:37

Tgt Ion: 75 Resp: 46582
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.8 38.6#
 39 40.6 43.8 65.8#





#57

1,3-Dichloropropane

Concen: 1.030 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN055160.D

Acq: 20 Apr 2019 00:37

Instrument :

MSVOA_N

ClientSampleId :

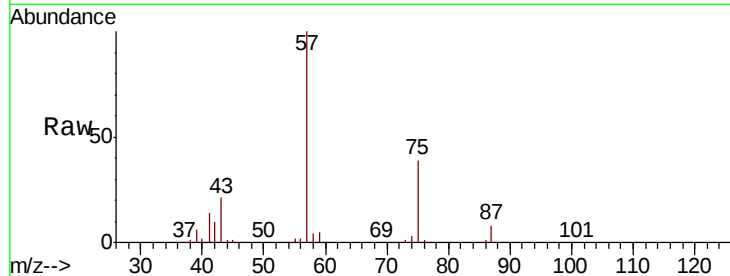
OR-03-041819-B

Tot Ion: 76 Resp: 9192

Ion Ratio Lower Upper

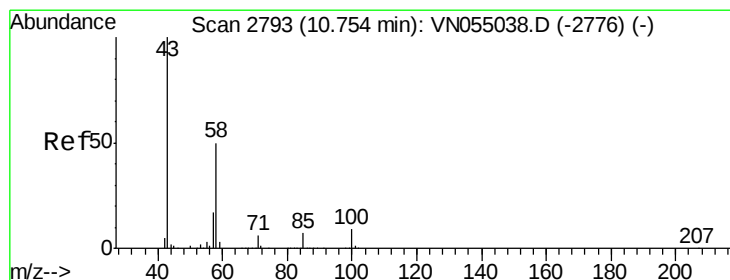
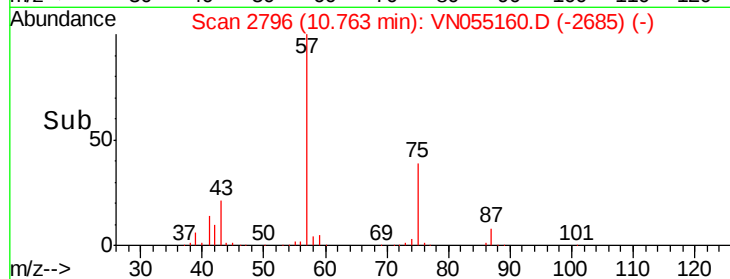
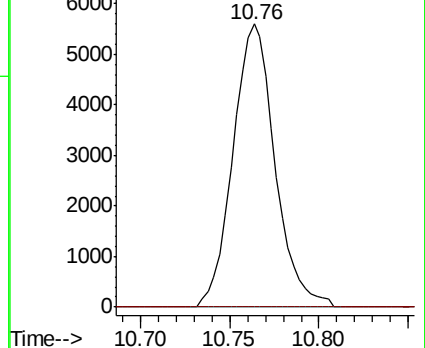
76 100

78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 40.883 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN055160.D

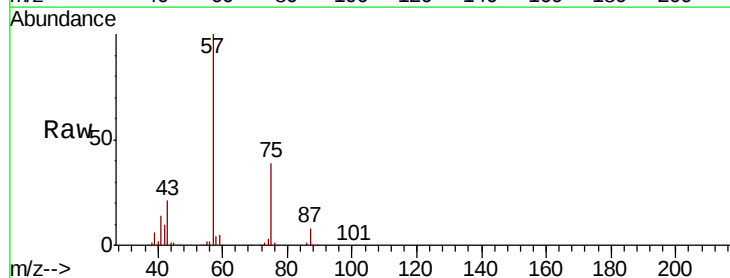
Acq: 20 Apr 2019 00:37

Tgt Ion: 43 Resp: 146625

Ion Ratio Lower Upper

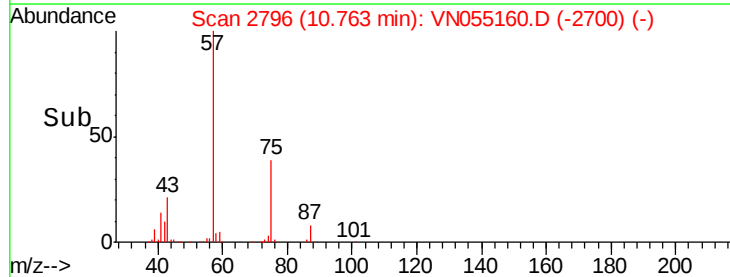
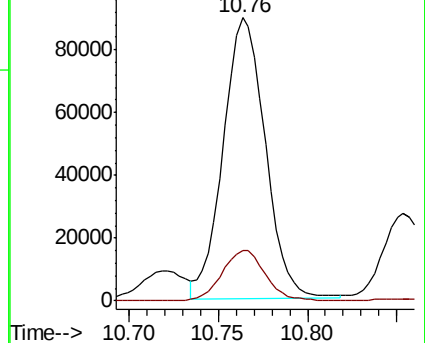
43 100

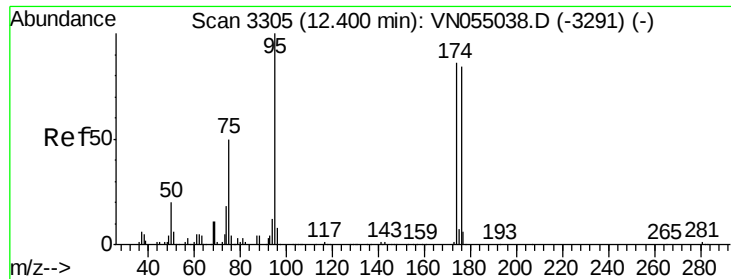
58 18.5 25.1 75.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

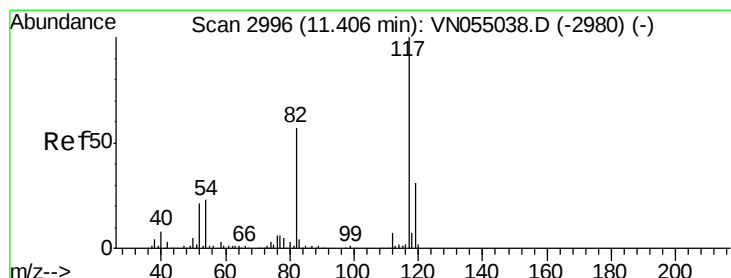
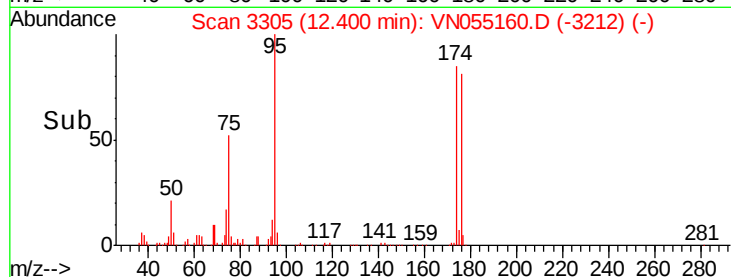
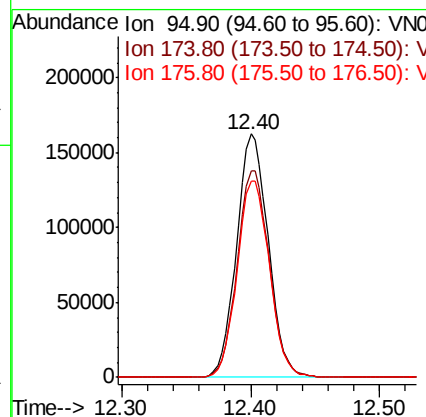
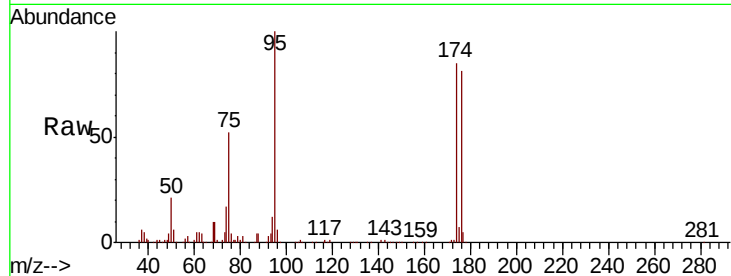




#62
4-Bromofluorobenzene
Concen: 42.514 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN055160.D
Acq: 20 Apr 2019 00:37

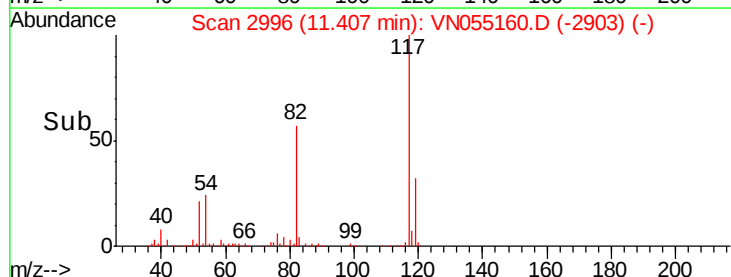
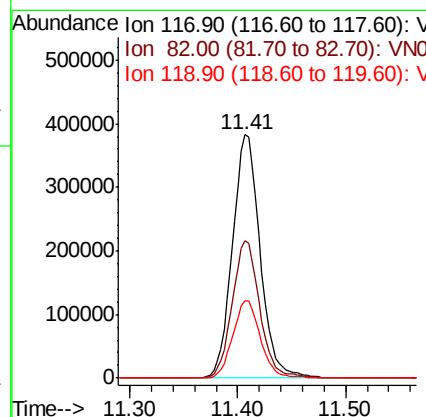
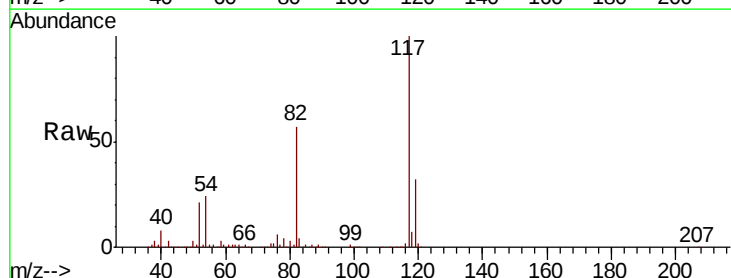
Instrument :
MSVOA_N
ClientSampleId :
OR-03-041819-B

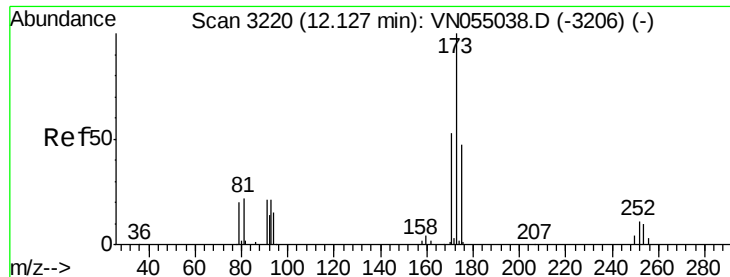
Tot Ion: 95 Resp: 276311
Ion Ratio Lower Upper
95 100
174 86.7 0.0 174.4
176 82.7 0.0 166.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055160.D
Acq: 20 Apr 2019 00:37

Tgt Ion: 117 Resp: 685012
Ion Ratio Lower Upper
117 100
82 56.6 44.6 66.8
119 31.9 25.5 38.3





#71

Bromoform

Concen: 0.817 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN055160.D

Acq: 20 Apr 2019 00:37

Instrument :

MSVOA_N

ClientSampleId :

OR-03-041819-B

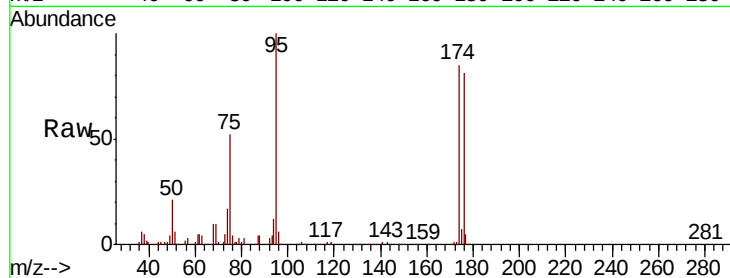
Tot Ion:173 Resp: 2376

Ion Ratio Lower Upper

173 100

175 655.9 24.3 73.0#

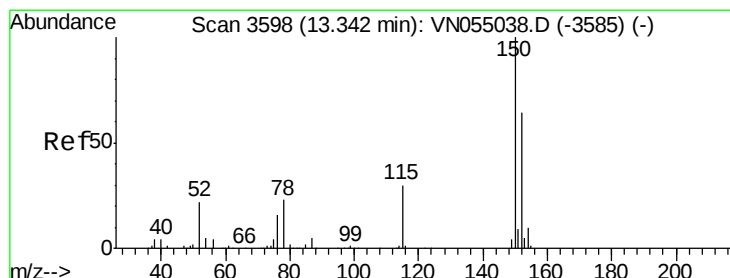
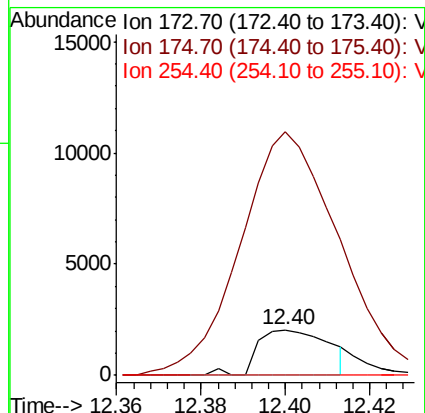
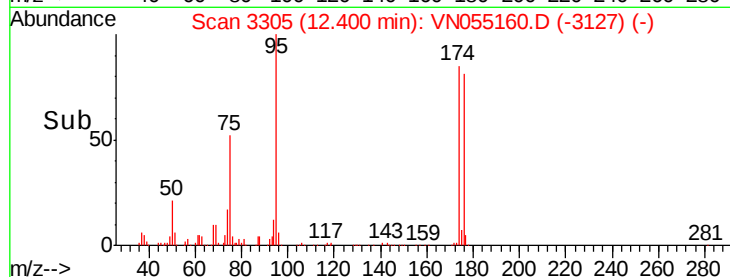
254 0.0 0.1 0.1#



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: VN055160.D

Acq: 20 Apr 2019 00:37

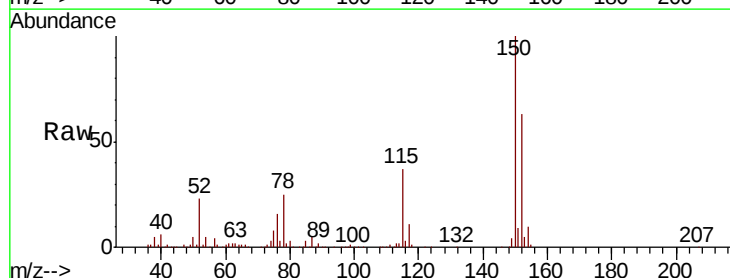
Tgt Ion:152 Resp: 208768

Ion Ratio Lower Upper

152 100

115 58.6 28.5 85.6

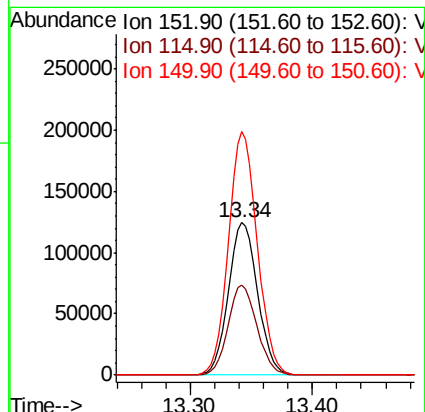
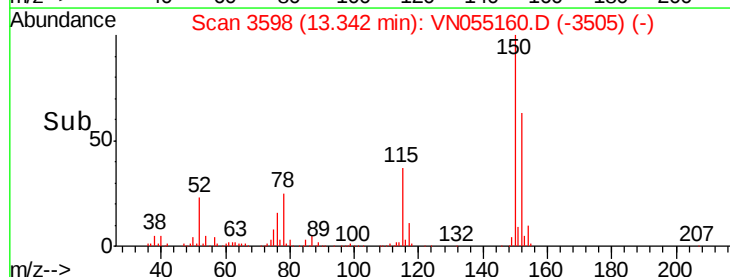
150 157.2 0.0 347.2

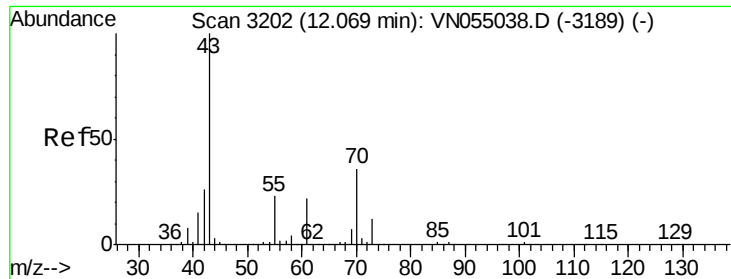


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.755 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN055160.D

Acq: 20 Apr 2019 00:37

Instrument :

MSVOA_N

ClientSampleId :

OR-03-041819-B

Tot Ion: 43 Resp: 14367

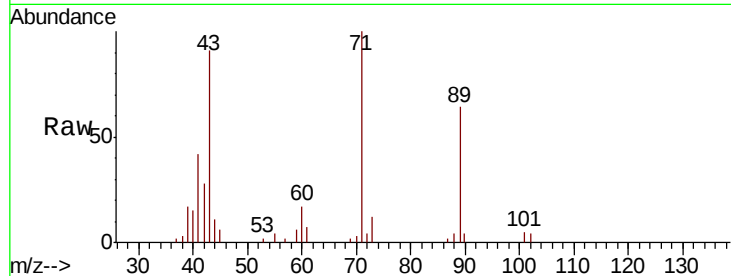
Ion Ratio Lower Upper

43 100

70 2.8 29.4 44.0#

55 4.5 19.0 28.4#

61 8.9 17.7 26.5#

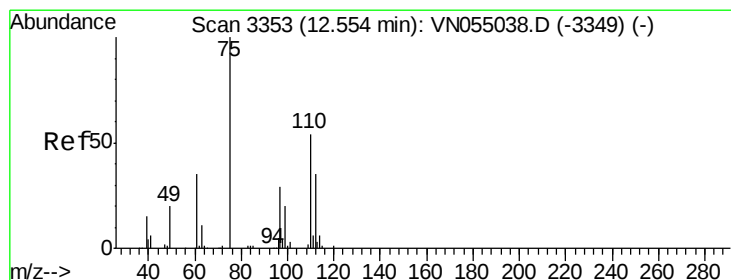
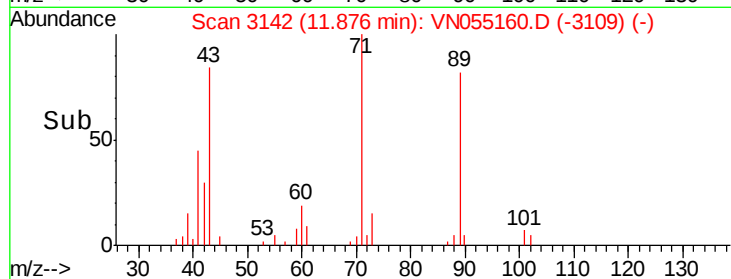
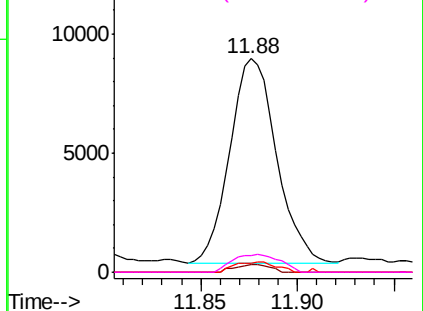


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 38.106 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN055160.D

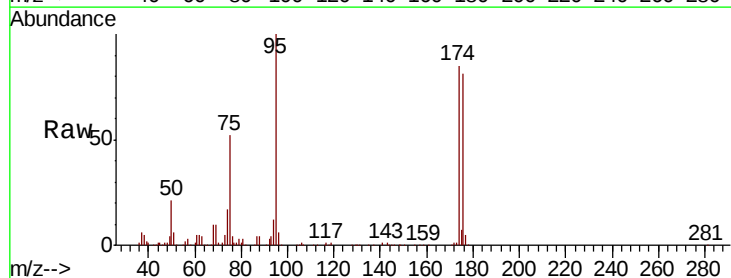
Acq: 20 Apr 2019 00:37

Tgt Ion: 75 Resp: 143055

Ion Ratio Lower Upper

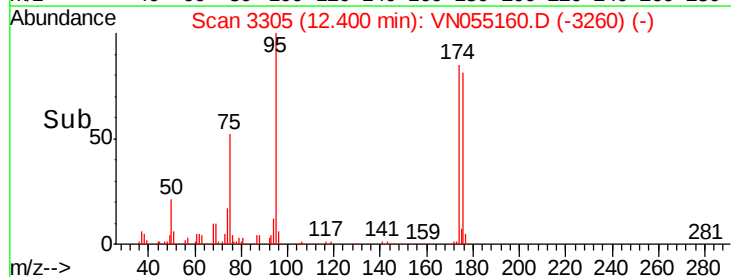
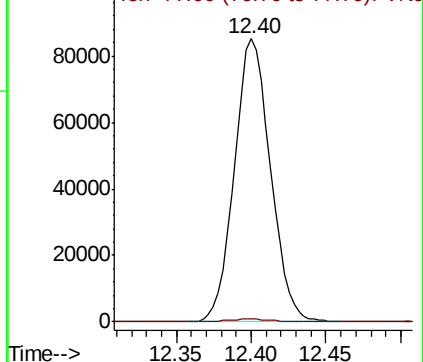
75 100

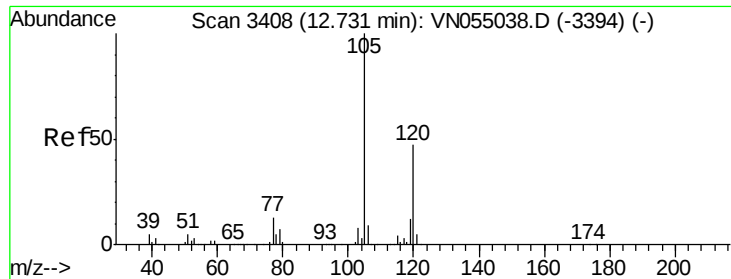
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

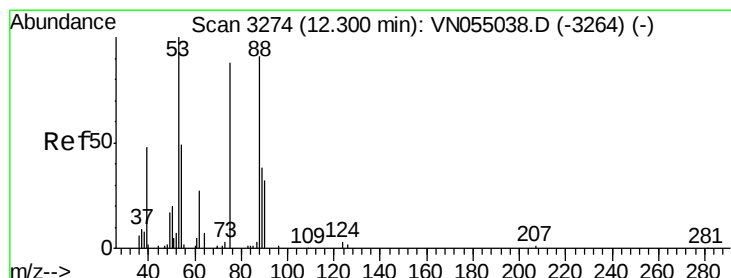
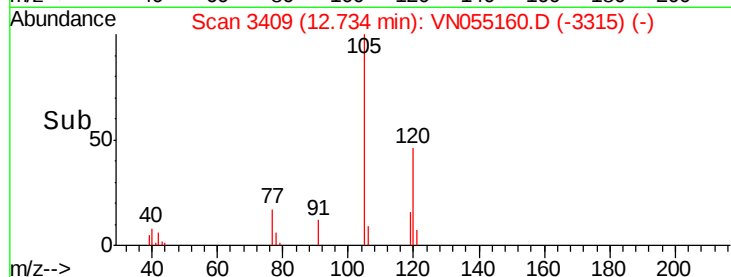
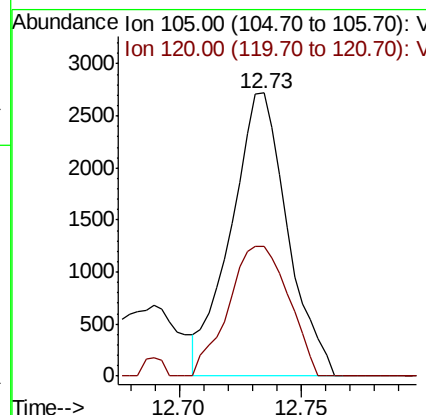
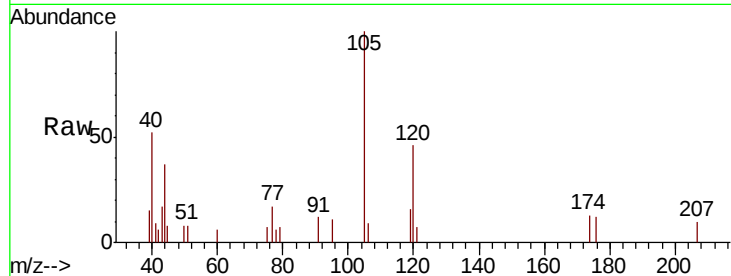




#80
 1,3,5-Trimethylbenzene
 Concen: 0.292 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN055160.D
 Acq: 20 Apr 2019 00:37

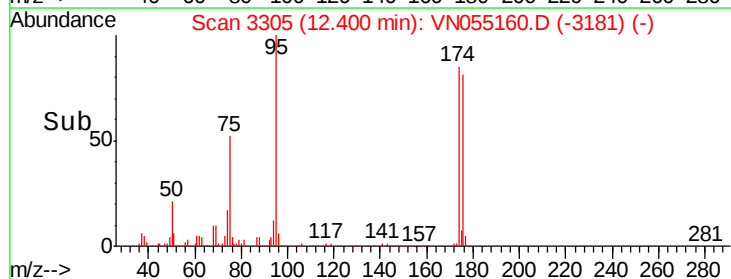
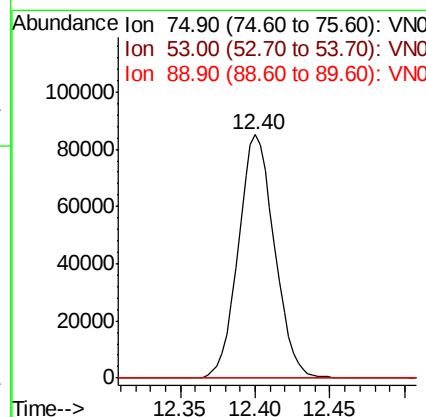
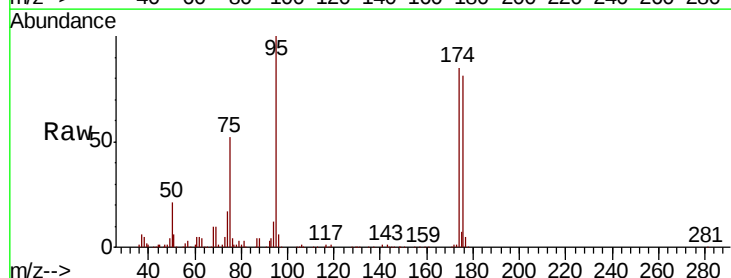
Instrument :
 MSVOA_N
 ClientSampleId :
 OR-03-041819-B

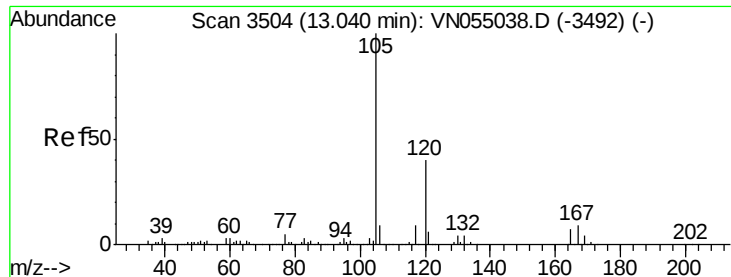
Tot Ion:105 Resp: 4365
 Ion Ratio Lower Upper
 105 100
 120 48.8 24.3 72.8



#81
 trans-1,4-Dichloro-2-butene
 Concen: 152.379 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN055160.D
 Acq: 20 Apr 2019 00:37

Tgt Ion: 75 Resp: 143055
 Ion Ratio Lower Upper
 75 100
 53 0.0 96.3 144.5#
 89 0.0 38.6 57.8#





#84

1,2,4-Trimethylbenzene

Concen: 0.343 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN055160.D

Acq: 20 Apr 2019 00:37

Instrument :

MSVOA_N

ClientSampleId :

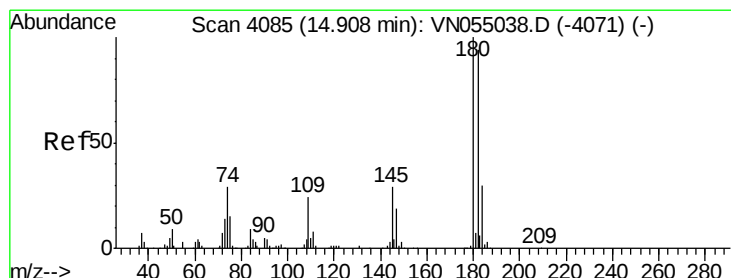
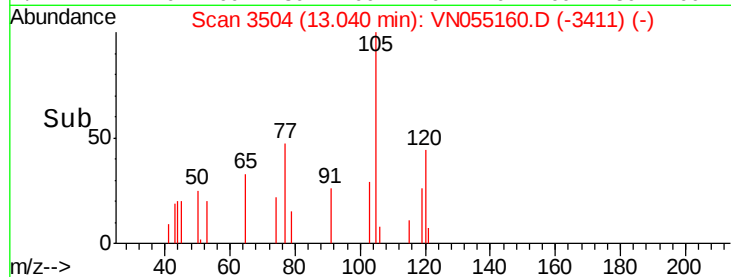
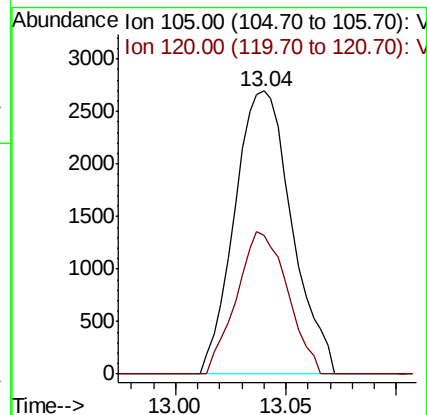
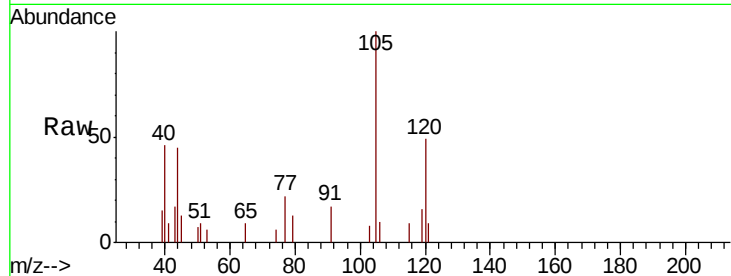
OR-03-041819-B

Tot Ion:105 Resp: 4866

Ion Ratio Lower Upper

105 100

120 44.8 22.4 67.3



#93

1,2,4-Trichlorobenzene

Concen: 2.686 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.01 min

Lab File: VN055160.D

Acq: 20 Apr 2019 00:37

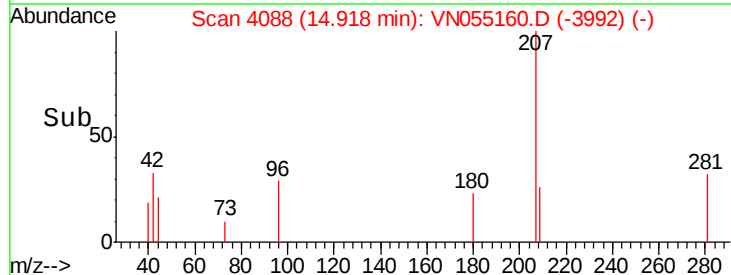
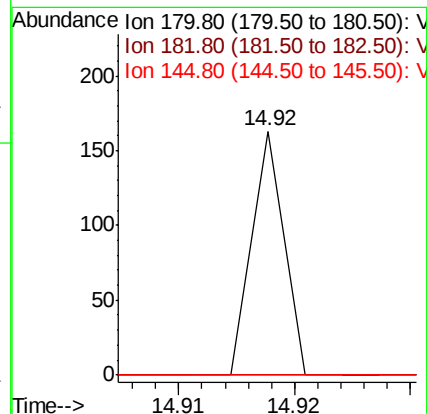
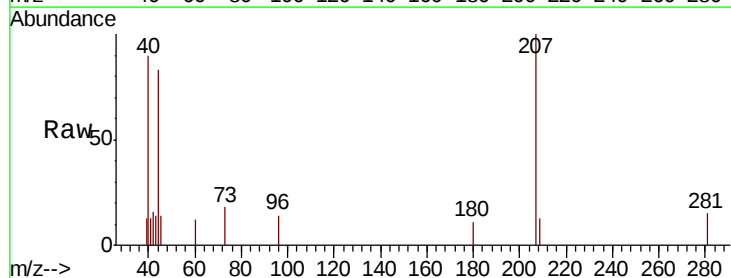
Tgt Ion:180 Resp: 31

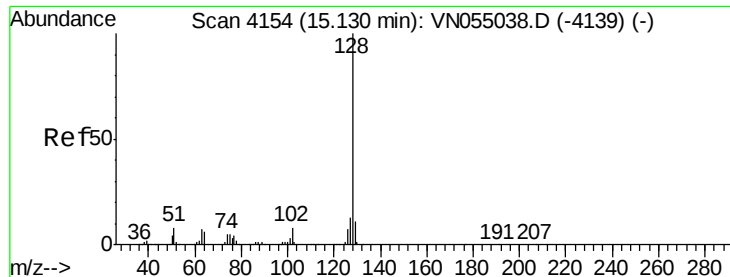
Ion Ratio Lower Upper

180 100

182 0.0 47.5 142.6#

145 0.0 14.2 42.8#





#95

Naphthalene

Concen: 6.736 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN055160.D

Acq: 20 Apr 2019 00:37

Instrument :

MSVOA_N

ClientSampleId :

OR-03-041819-B

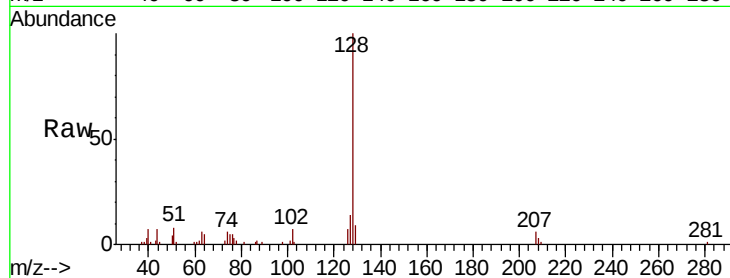
Tot Ion:128 Resp: 29180

Ion Ratio Lower Upper

128 100

127 13.8 10.1 15.1

129 11.0 8.8 13.2



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

