

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090220\
 Data File : VN063202.D
 Acq On : 2 Sep 2020 18:16
 Operator : JC/MD
 Sample : L3878-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 Z4-IDW-SOIL-0820

Quant Time: Sep 03 01:02:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N083120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 01 04:21:28 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	316818	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	630856	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	620586	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	243524	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	259056	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
35) Dibromofluoromethane	7.55	113	195384	48.28	ug/l	0.00
Spiked Amount			Recovery	=	96.56%	
50) Toluene-d8	10.06	98	777271	49.90	ug/l	0.00
Spiked Amount			Recovery	=	99.80%	
62) 4-Bromofluorobenzene	12.38	95	275675	50.59	ug/l	0.00
Spiked Amount			Recovery	=	101.18%	

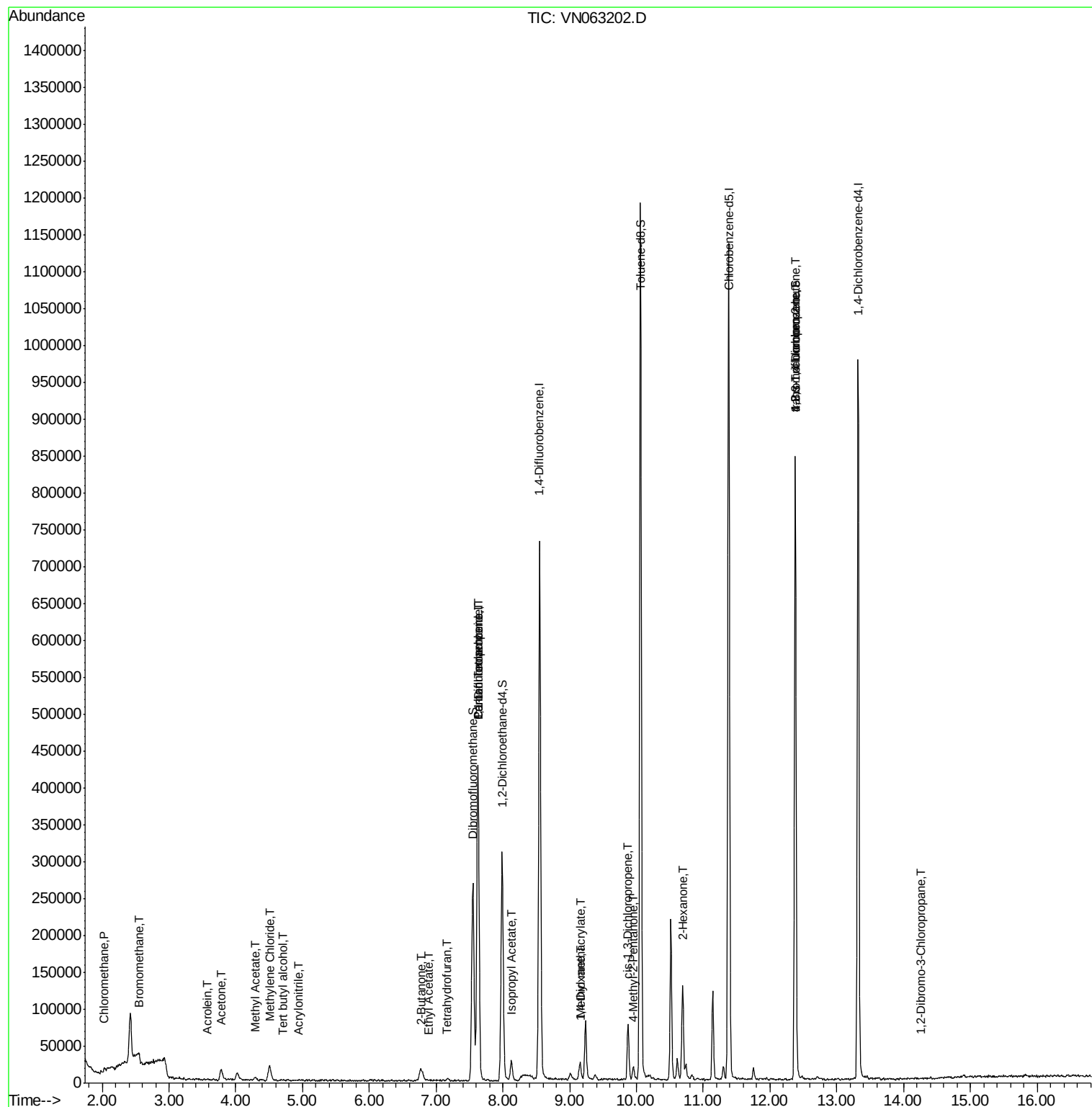
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1894	0.417	ug/l #	76
5) Bromomethane	2.55	94	2654	0.628	ug/l #	70
7) Trichlorofluoromethane	3.01	101	29	Below Cal	#	19
11) Tert butyl alcohol	4.72	59	456	0.717	ug/l #	72
13) Acrolein	3.57	56	202	16.551	ug/l #	15
15) Acrylonitrile	4.93	53	105	2.462	ug/l #	1
16) Acetone	3.78	43	26677	18.120	ug/l	91
18) Methyl Acetate	4.29	43	6377	1.689	ug/l #	55
20) Methylene Chloride	4.51	84	13476	2.791	ug/l	97
25) 2-Butanone	6.79	43	5285	2.318	ug/l #	64
29) Tetrahydrofuran	7.15	42	332	0.211	ug/l #	1
31) Cyclohexane	7.63	56	10022	Below Cal	#	18
36) 1,1-Dichloropropene	7.62	75	29852	4.922	ug/l #	51
37) Ethyl Acetate	6.89	43	289	0.430	ug/l #	72
38) Carbon Tetrachloride	7.63	117	33851	5.504	ug/l #	14
43) Isopropyl Acetate	8.13	43	31380	3.173	ug/l	93
48) Methyl methacrylate	9.15	41	3436	0.771	ug/l #	17
49) 1,4-Dioxane	9.17	88	312	4.524	ug/l #	25
51) 4-Methyl-2-Pentanone	9.96	43	12510	2.328	ug/l	94
54) cis-1,3-Dichloropropene	9.87	75	13363	1.736	ug/l #	71
59) 2-Hexanone	10.69	43	103270	27.340	ug/l #	26
76) 1,2,3-Trichloropropane	12.38	75	157638	32.946	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	157638	79.630	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.26	75	237	0.200	ug/l #	7

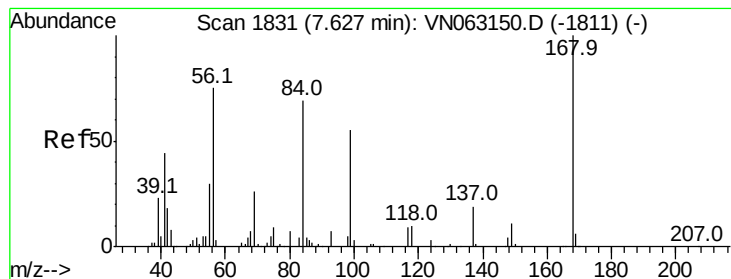
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N083120W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 01 04:21:28 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063202.D

Acq: 2 Sep 2020 18:16

Instrument :

MSVOA_N

ClientSampleId :

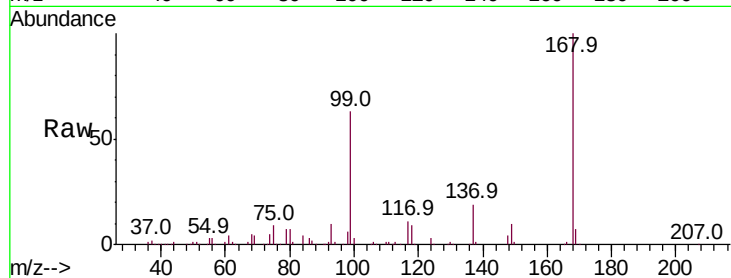
Z4-IDW-SOIL-0820

Tot Ion:168 Resp: 316818

Ion Ratio Lower Upper

168 100

99 63.1 54.2 81.2



Abundance Ion 167.90 (167.60 to 168.60): VN063150.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN063150.D (-1811) (-)

7.63

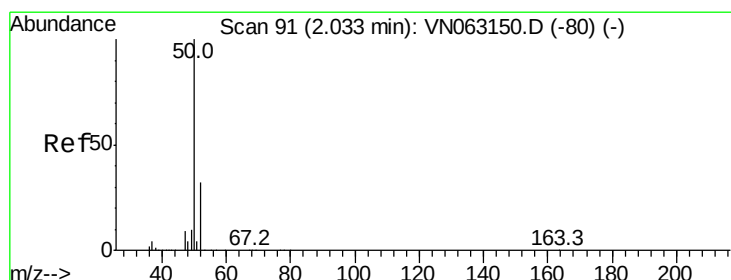
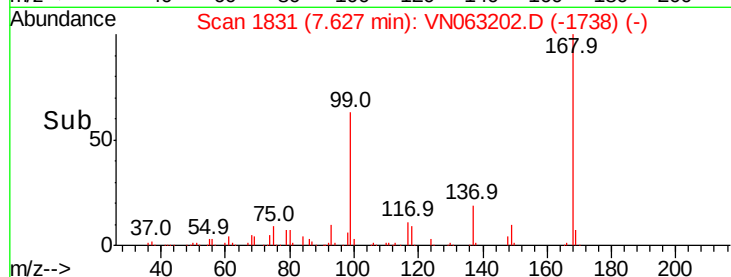
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.417 ug/l

RT: 2.04 min Scan# 92

Delta R.T. 0.00 min

Lab File: VN063202.D

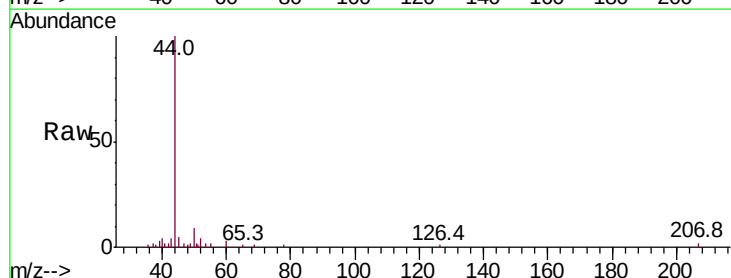
Acq: 2 Sep 2020 18:16

Tgt Ion: 50 Resp: 1894

Ion Ratio Lower Upper

50 100

52 45.8 25.8 38.6#



Abundance Ion 49.90 (49.60 to 50.60): VN063202.D (-1) (-)

Ion 51.90 (51.60 to 52.60): VN063202.D (-1) (-)

2.04

1200

1000

800

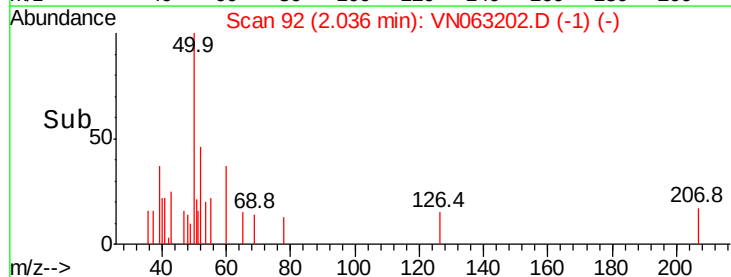
600

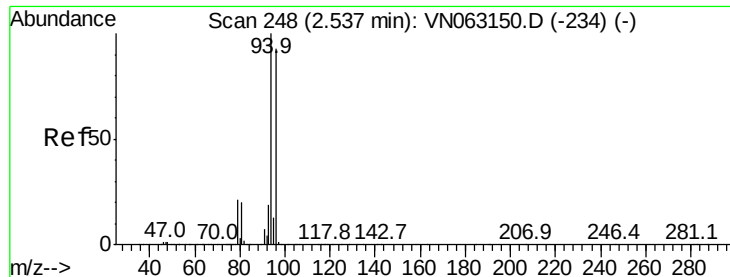
400

200

0

Time--> 2.00 2.05





#5

Bromomethane

Concen: 0.628 ug/l

RT: 2.55 min Scan# 253

Delta R.T. 0.02 min

Lab File: VN063202.D

Acq: 2 Sep 2020 18:16

Instrument :

MSVOA_N

ClientSampleId :

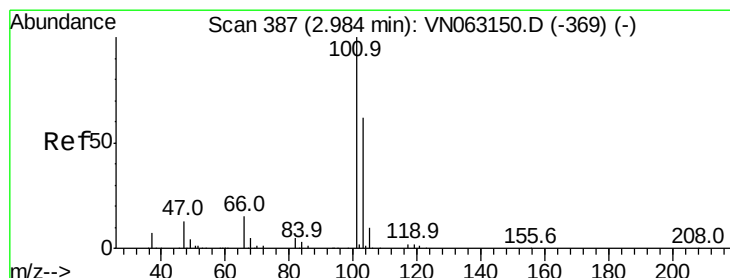
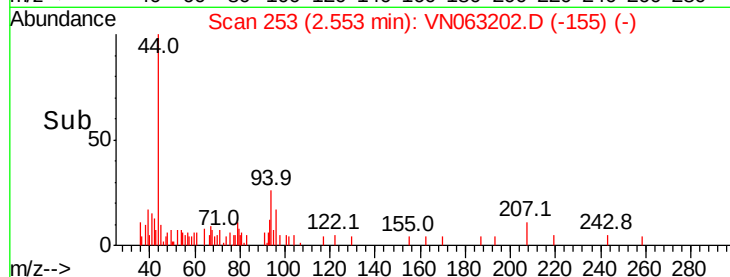
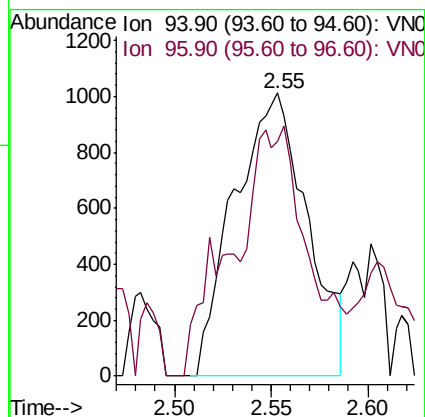
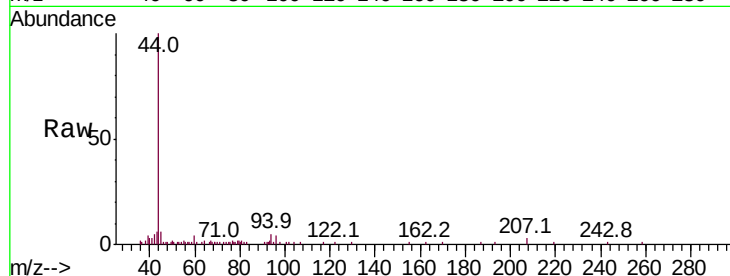
Z4-IDW-SOIL-0820

Tot Ion: 94 Resp: 2654

Ion Ratio Lower Upper

94 100

96 64.3 74.4 111.6#



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 3.01 min Scan# 395

Delta R.T. 0.03 min

Lab File: VN063202.D

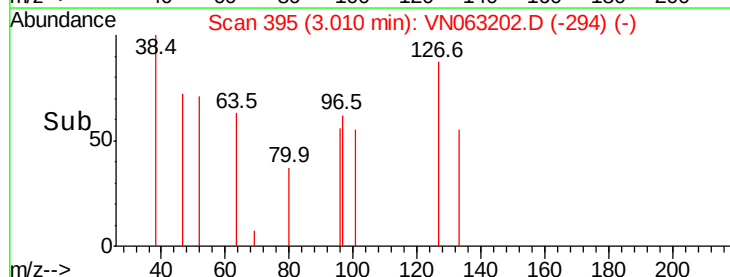
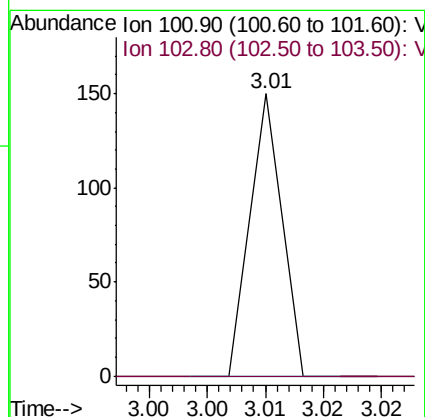
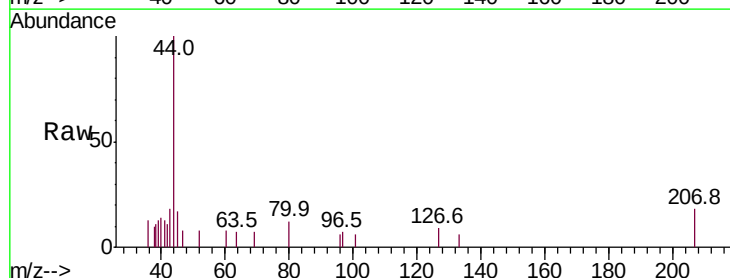
Acq: 2 Sep 2020 18:16

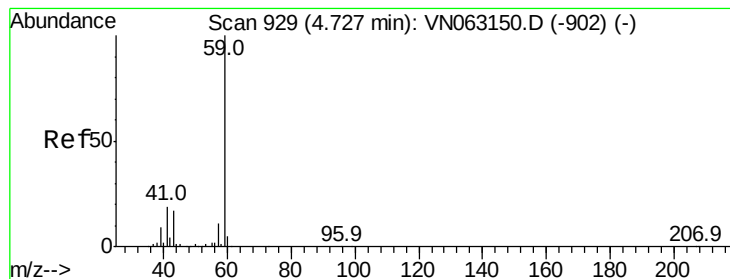
Tgt Ion: 101 Resp: 29

Ion Ratio Lower Upper

101 100

103 0.0 49.7 74.5#





#11

Tert butyl alcohol

Concen: 0.717 ug/l

RT: 4.72 min Scan# 926

Delta R.T. -0.01 min

Lab File: VN063202.D

Acq: 2 Sep 2020 18:16

Instrument :

MSVOA_N

ClientSampleId :

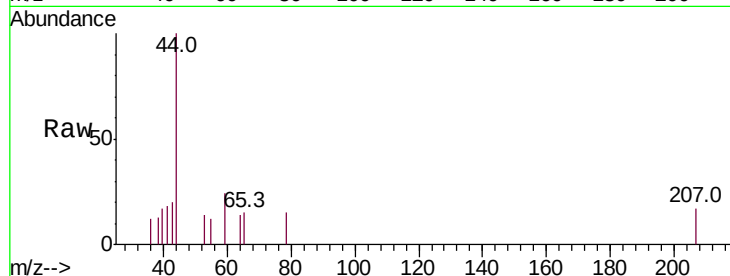
Z4-IDW-SOIL-0820

Tot Ion: 59 Resp: 456

Ion Ratio Lower Upper

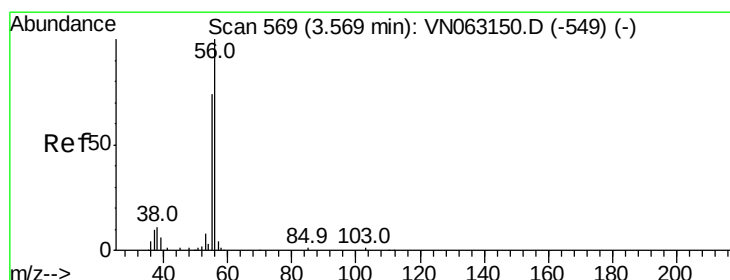
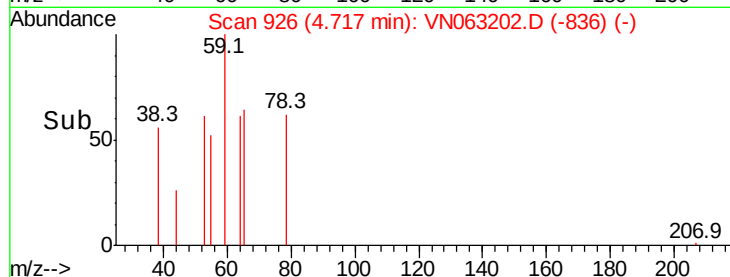
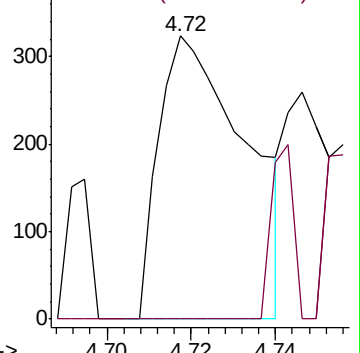
59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#13

Acrolein

Concen: 16.551 ug/l

RT: 3.57 min Scan# 568

Delta R.T. -0.00 min

Lab File: VN063202.D

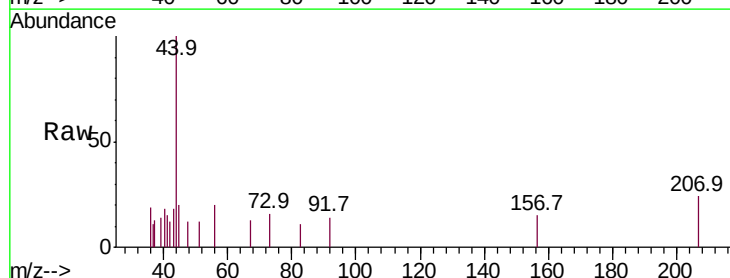
Acq: 2 Sep 2020 18:16

Tgt Ion: 56 Resp: 202

Ion Ratio Lower Upper

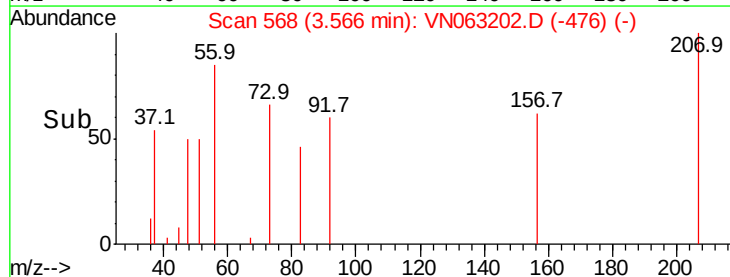
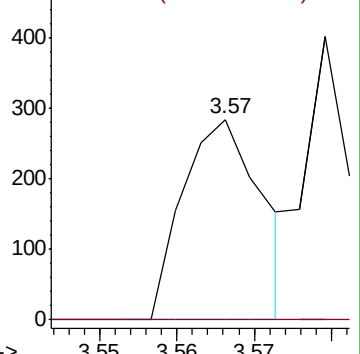
56 100

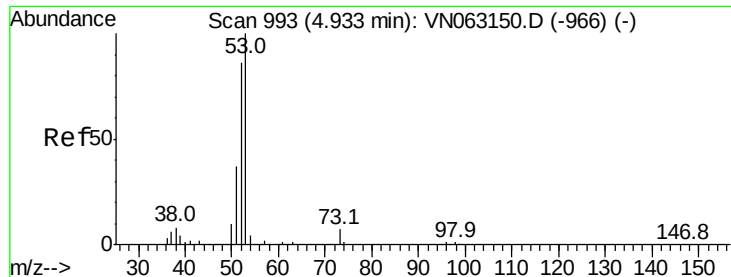
55 0.0 55.4 83.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#15

Acrylonitrile

Concen: 2.462 ug/l

RT: 4.93 min Scan# 992

Delta R.T. -0.00 min

Lab File: VN063202.D

Acq: 2 Sep 2020 18:16

Instrument :

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ClientSampleId :

Z4-IDW-SOIL-0820

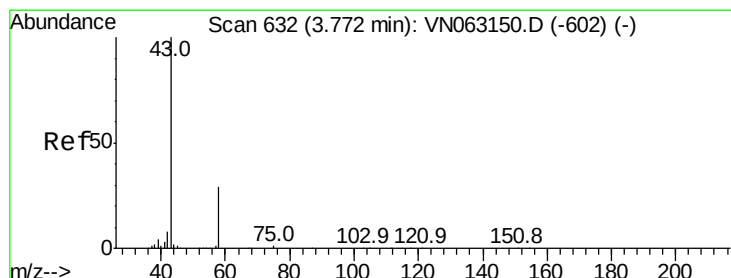
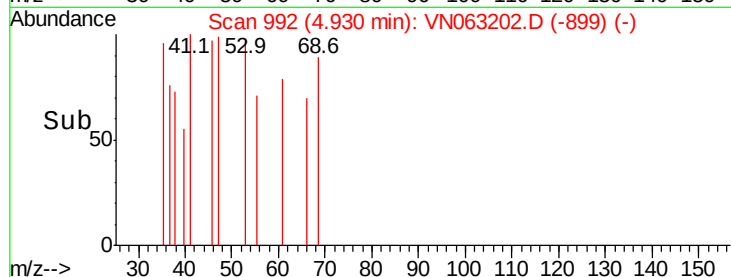
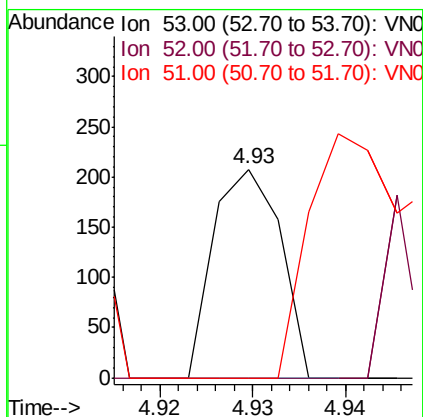
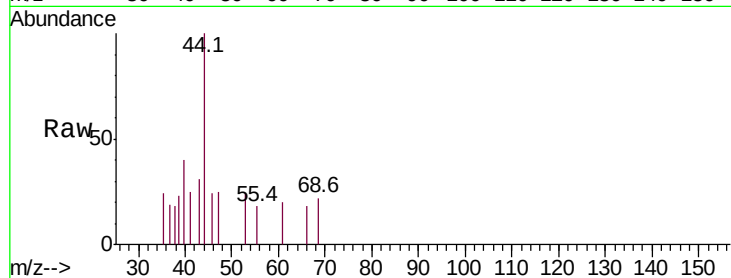
Tot Ion: 53 Resp: 105

Ion Ratio Lower Upper

53 100

52 0.0 67.2 100.8#

51 213.3 30.2 45.4#



#16

Acetone

Concen: 18.120 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063202.D

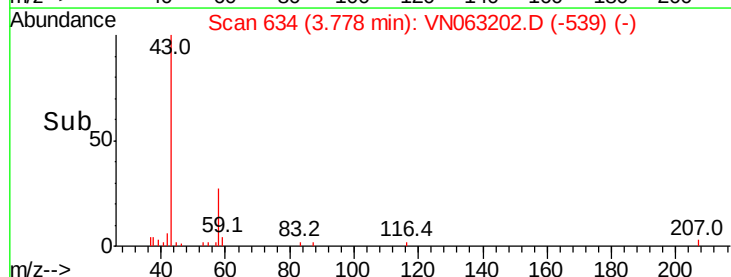
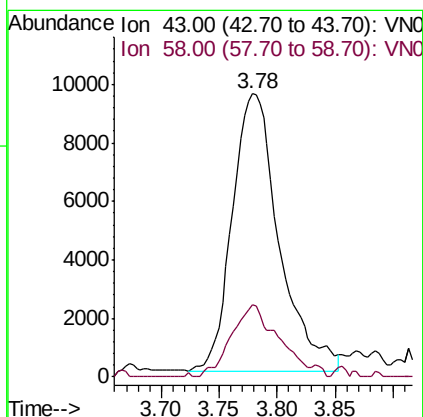
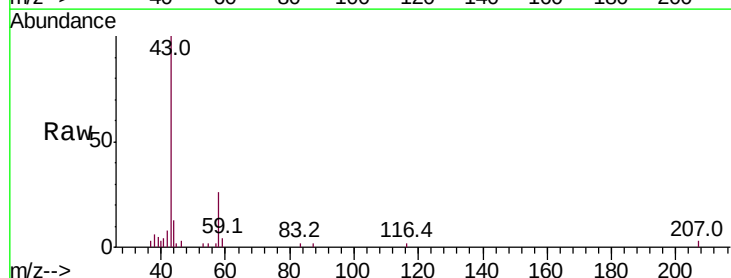
Acq: 2 Sep 2020 18:16

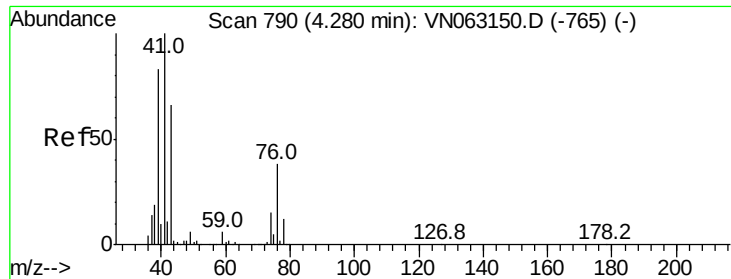
Tgt Ion: 43 Resp: 26677

Ion Ratio Lower Upper

43 100

58 24.3 23.1 34.7

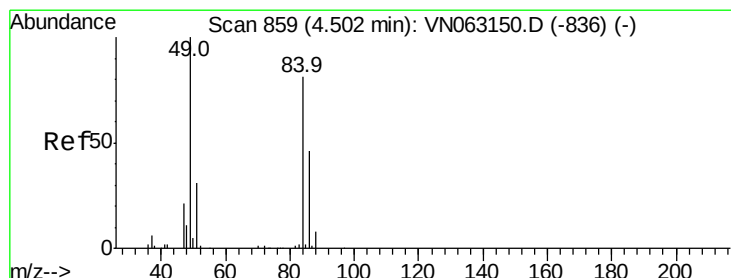
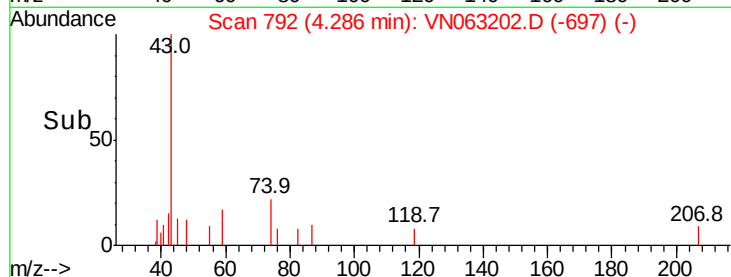
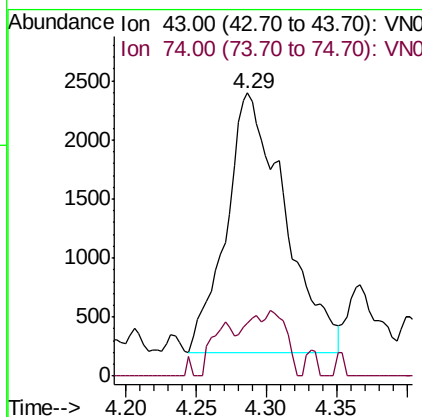
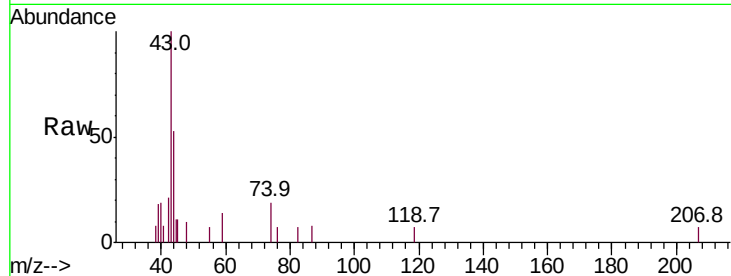




#18
Methyl Acetate
Concen: 1.689 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN063202.D
Acq: 2 Sep 2020 18:16

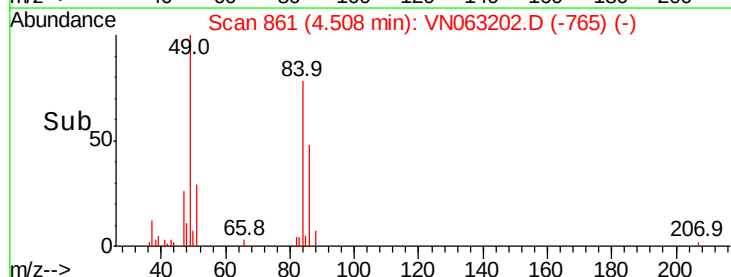
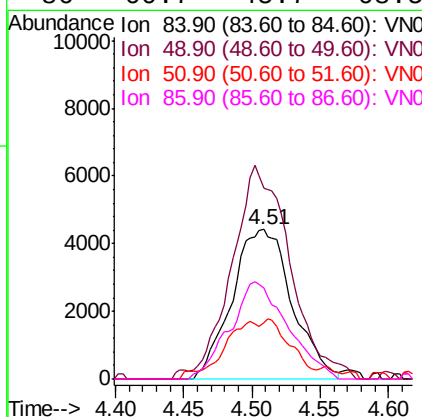
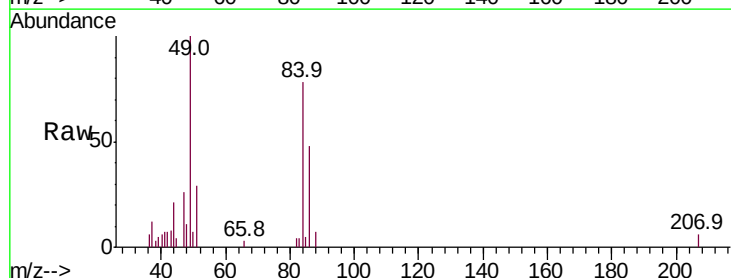
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Z4-IDW-SOIL-0820

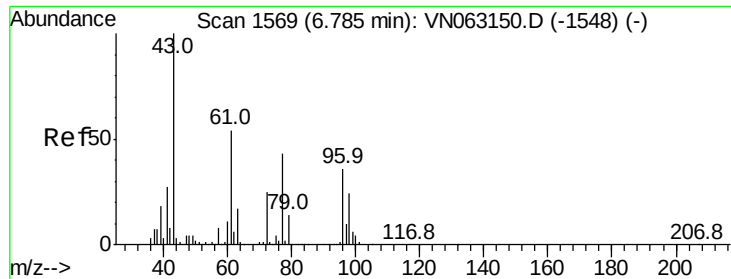
Tot Ion: 43 Resp: 6377
Ion Ratio Lower Upper
43 100
74 1.9 19.0 28.6#



#20
Methylene Chloride
Concen: 2.791 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN063202.D
Acq: 2 Sep 2020 18:16

Tgt Ion: 84 Resp: 13476
Ion Ratio Lower Upper
84 100
49 122.3 98.4 147.6
51 33.5 30.4 45.6
86 60.7 45.7 68.5





#25

2-Butanone

Concen: 2.318 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.01 min

Lab File: VN063202.D

Acq: 2 Sep 2020 18:16

Instrument :

MSVOA_N

ClientSampleId :

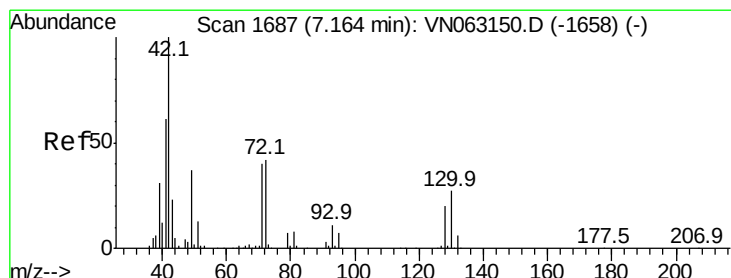
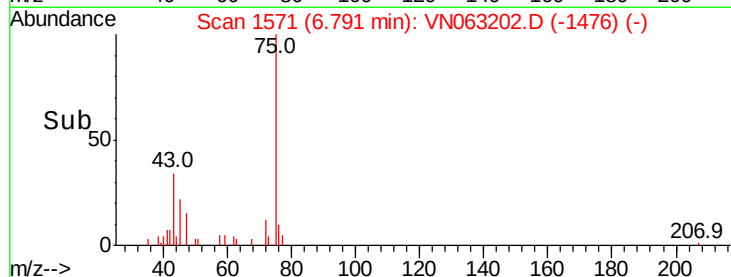
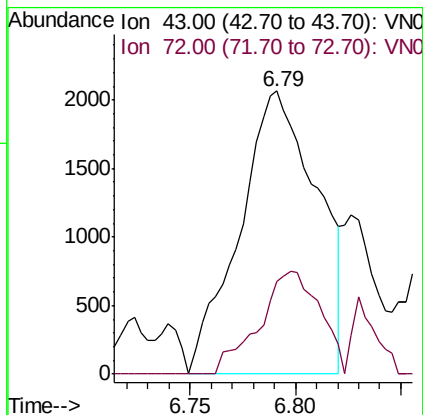
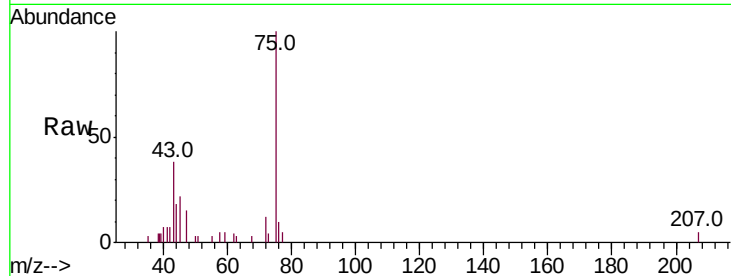
Z4-IDW-SOIL-0820

Tot Ion: 43 Resp: 5285

Ion Ratio Lower Upper

43 100

72 43.5 20.2 30.4#



#29

Tetrahydrofuran

Concen: 0.211 ug/l

RT: 7.15 min Scan# 1684

Delta R.T. -0.01 min

Lab File: VN063202.D

Acq: 2 Sep 2020 18:16

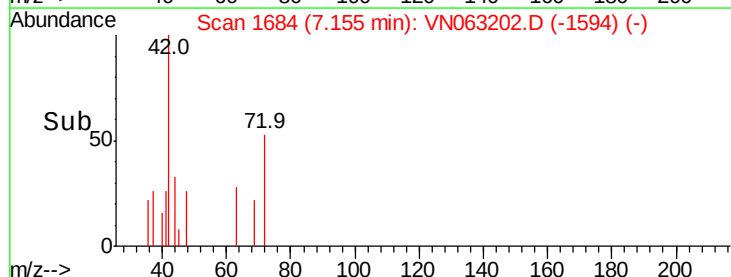
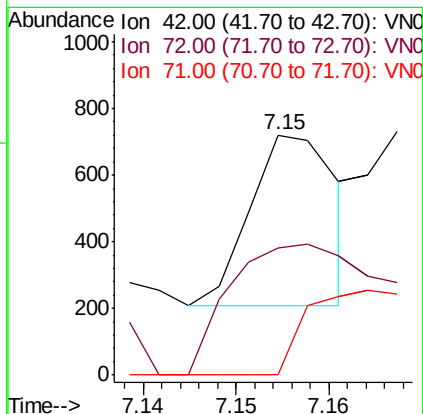
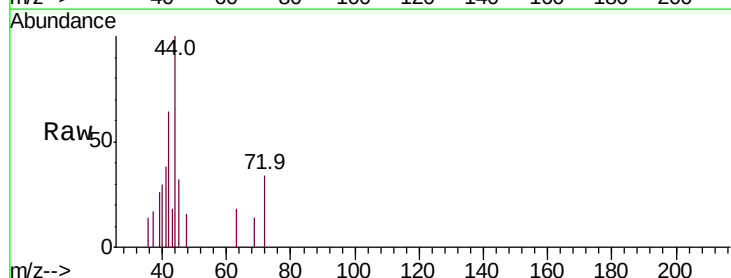
Tgt Ion: 42 Resp: 332

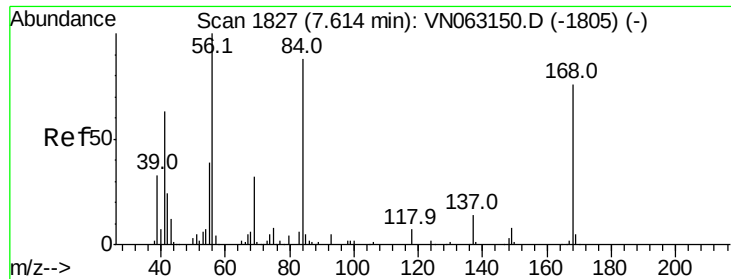
Ion Ratio Lower Upper

42 100

72 179.8 33.9 50.9#

71 0.0 31.9 47.9#

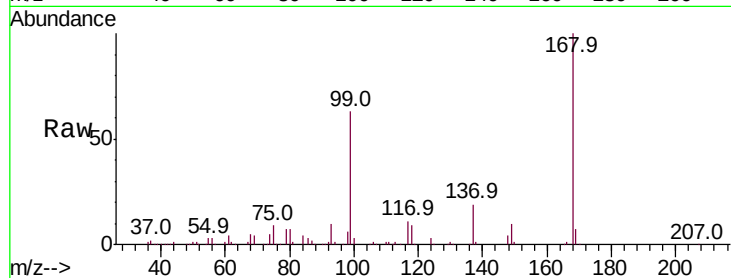




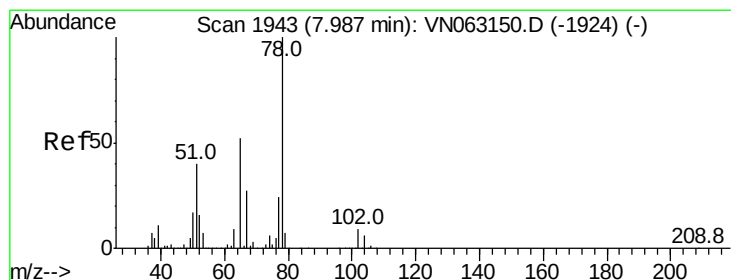
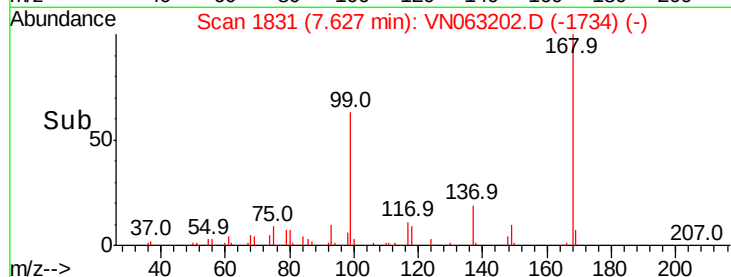
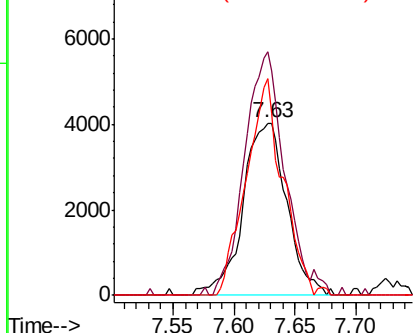
#31
Cyclohexane
Concen: Below Cal
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN063202.D
Acq: 2 Sep 2020 18:16

Instrument :
MSVOA_N
ClientSampleId :
Z4-IDW-SOIL-0820

Tot Ion: 56 Resp: 10022
Ion Ratio Lower Upper
56 100
69 141.3 25.4 38.0#
84 125.4 70.2 105.4#

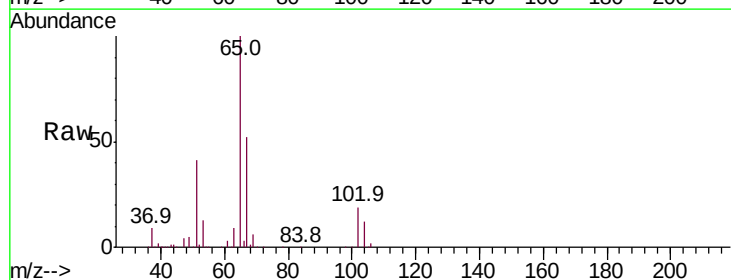


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

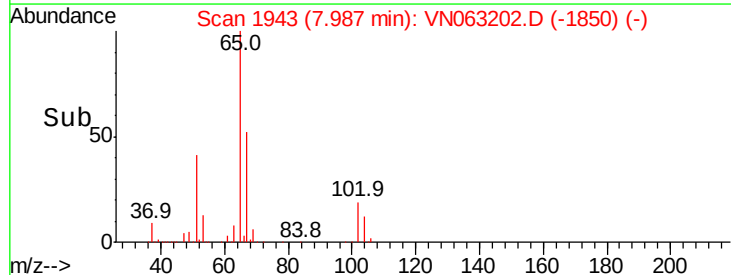
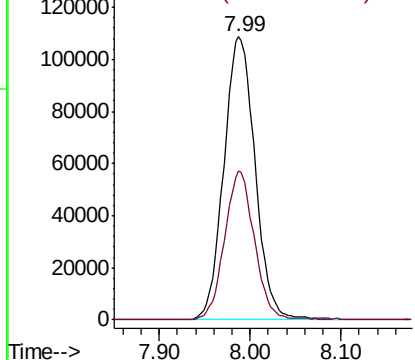


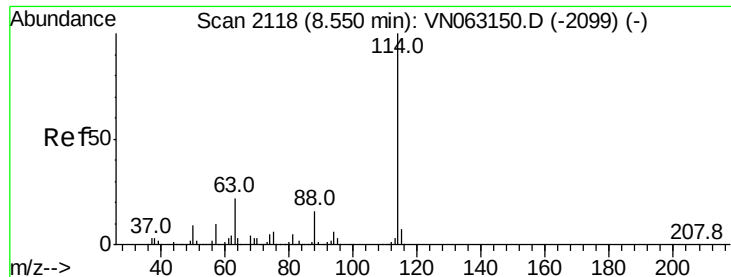
#33
1,2-Dichloroethane-d4
Concen: 50.020 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN063202.D
Acq: 2 Sep 2020 18:16

Tgt Ion: 65 Resp: 259056
Ion Ratio Lower Upper
65 100
67 50.0 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VNO
Ion 66.90 (66.60 to 67.60): VNO

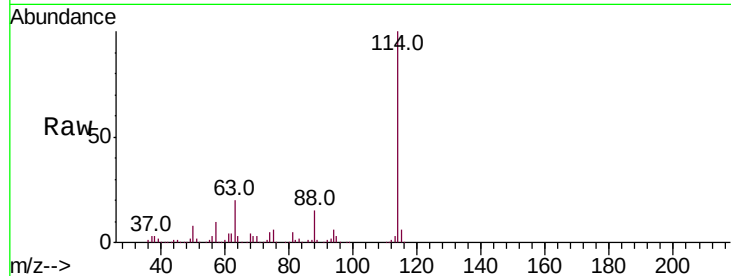




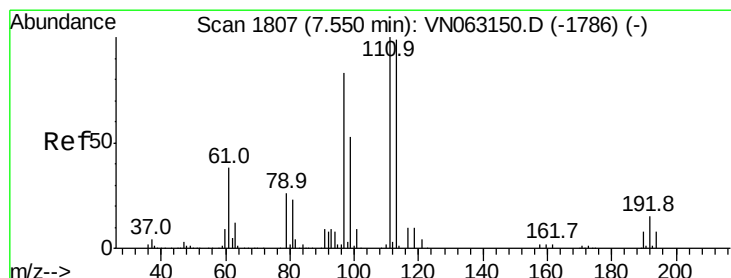
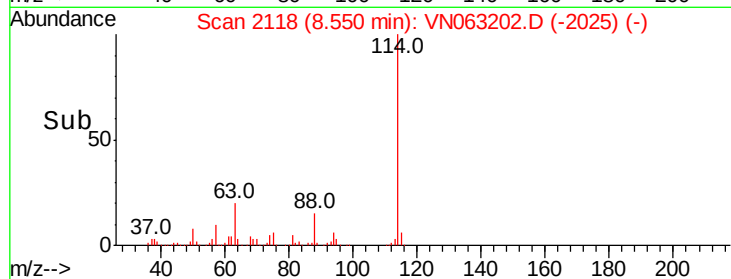
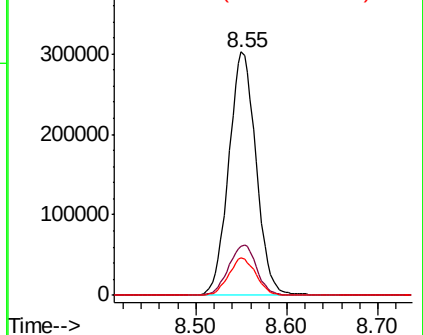
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN063202.D
Acq: 2 Sep 2020 18:16

Instrument :
MSVOA_N
ClientSampleId :
Z4-IDW-SOIL-0820

Tot Ion	Ratio	Lower	Upper
114	100		
63	20.4	0.0	43.0
88	15.3	0.0	31.6

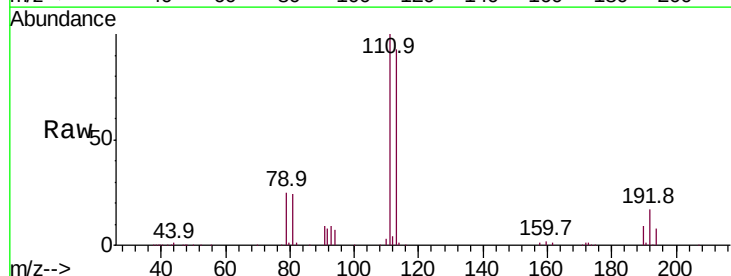


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): V
Ion 87.90 (87.60 to 88.60): V

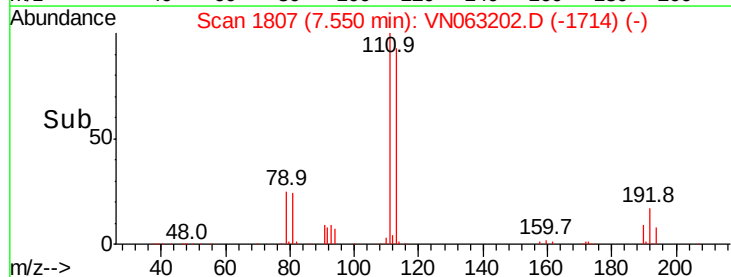
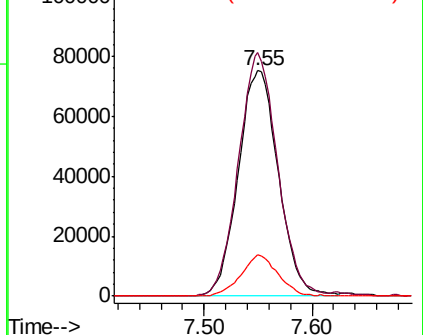


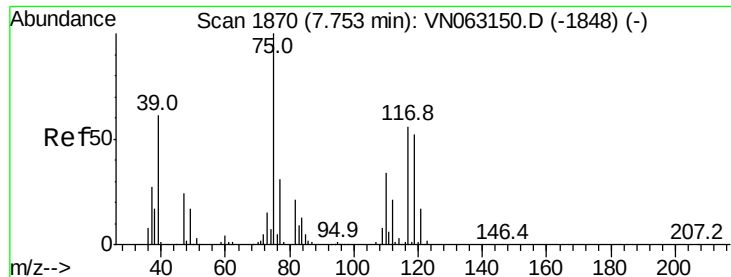
#35
Dibromofluoromethane
Concen: 48.276 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063202.D
Acq: 2 Sep 2020 18:16

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.6	80.7	121.1
192	16.6	12.6	19.0



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

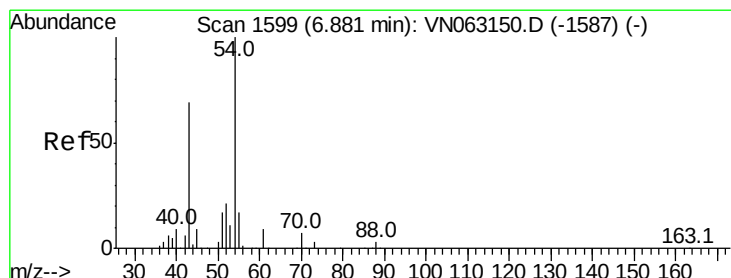
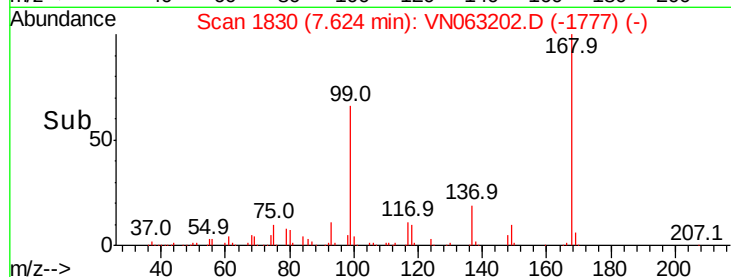
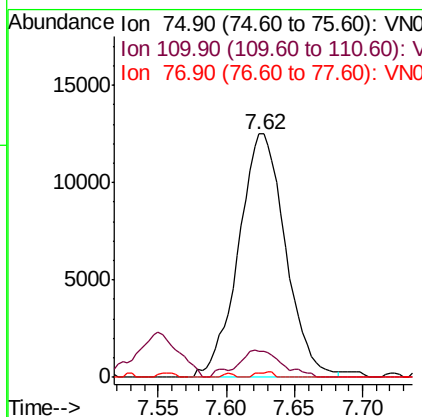
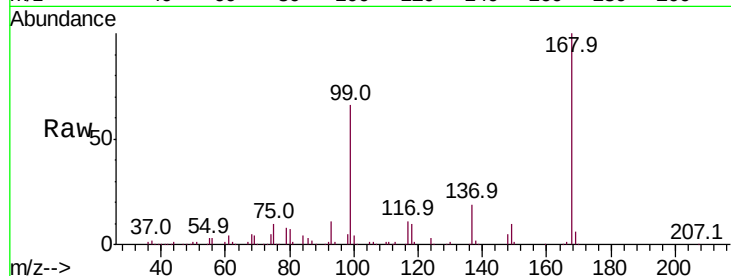




#36
 1,1-Dichloropropene
 Concen: 4.922 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN063202.D
 Acq: 2 Sep 2020 18:16

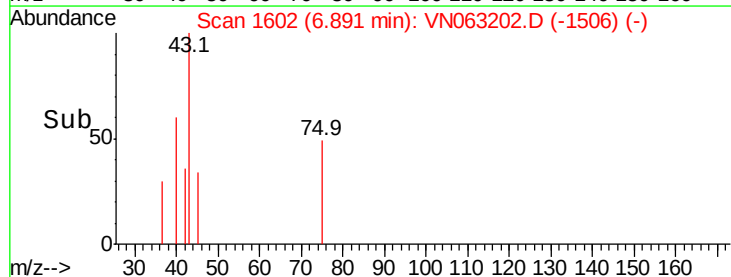
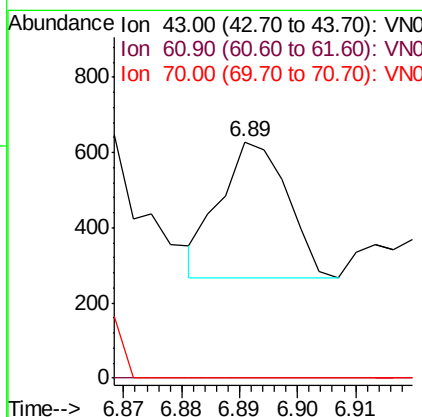
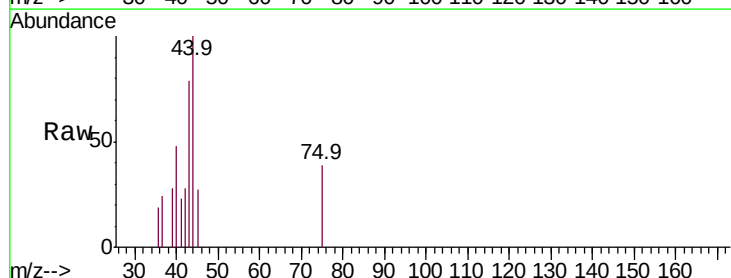
Instrument :
 MSVOA_N
 ClientSampleId :
 Z4-IDW-SOIL-0820

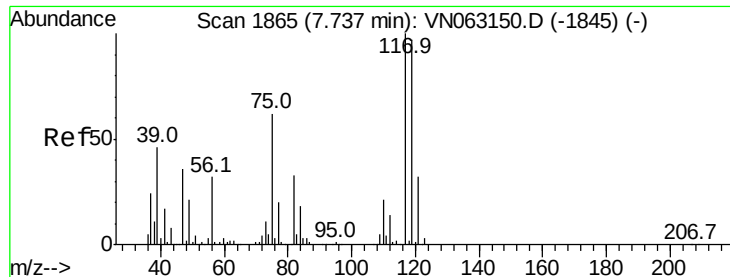
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	16.6	49.8#
77	0.8	25.4	38.2#



#37
 Ethyl Acetate
 Concen: 0.430 ug/l
 RT: 6.89 min Scan# 1602
 Delta R.T. 0.01 min
 Lab File: VN063202.D
 Acq: 2 Sep 2020 18:16

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	10.2	15.4#
70	0.0	3.0	4.6#

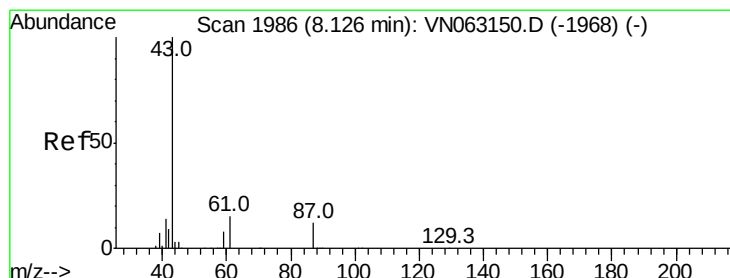
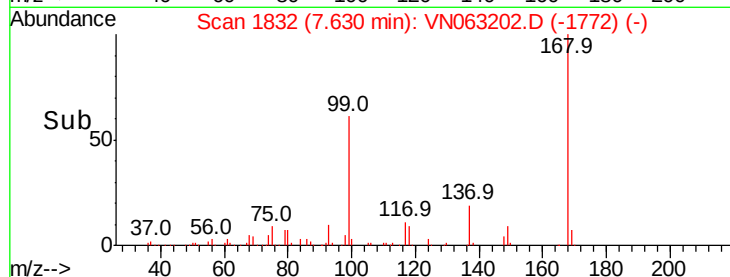
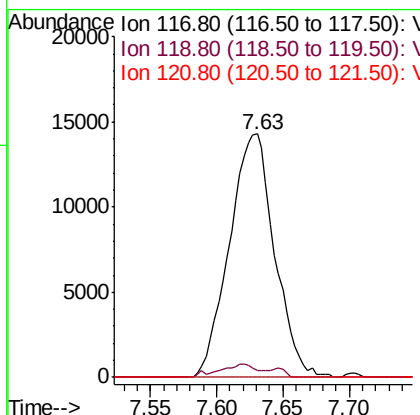
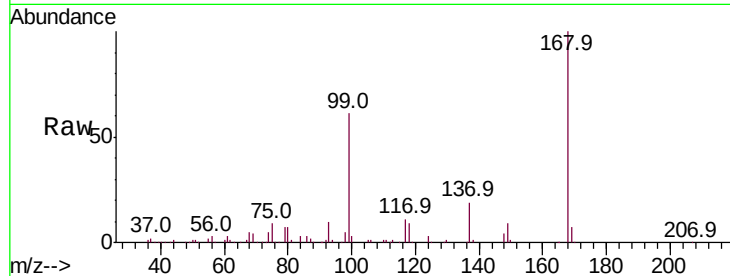




#38
Carbon Tetrachloride
Concen: 5.504 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN063202.D
Acq: 2 Sep 2020 18:16

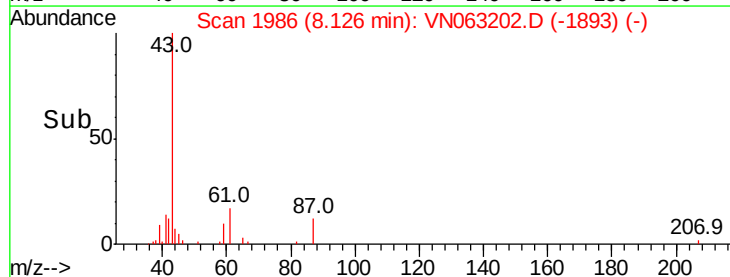
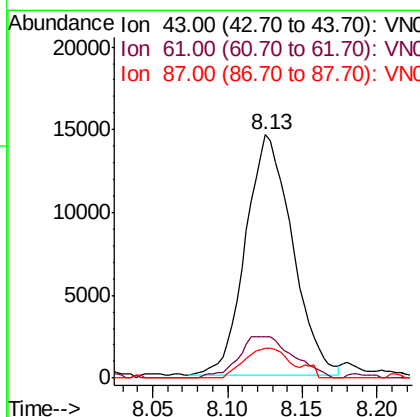
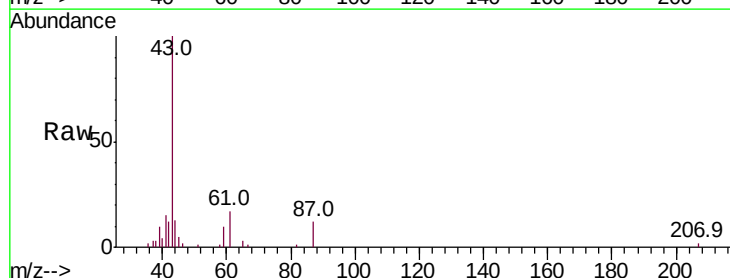
Instrument :
MSVOA_N
ClientSampleId :
Z4-IDW-SOIL-0820

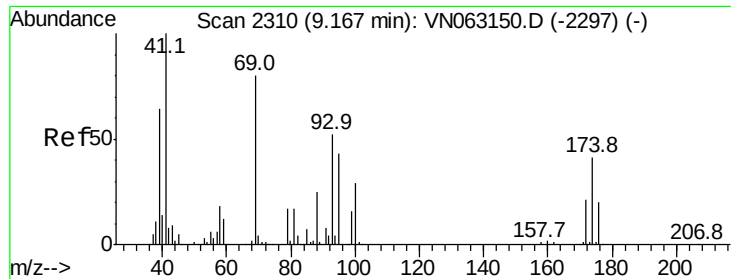
Tot Ion:117 Resp: 33851
Ion Ratio Lower Upper
117 100
119 3.0 77.2 115.8#
121 0.0 25.6 38.4#



#43
Isopropyl Acetate
Concen: 3.173 ug/l
RT: 8.13 min Scan# 1986
Delta R.T. 0.00 min
Lab File: VN063202.D
Acq: 2 Sep 2020 18:16

Tgt Ion: 43 Resp: 31380
Ion Ratio Lower Upper
43 100
61 20.4 20.2 30.4
87 11.7 9.8 14.6

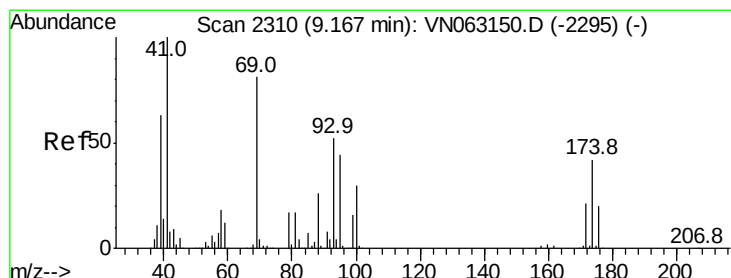
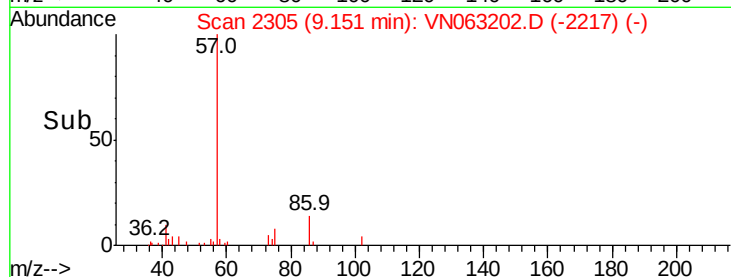
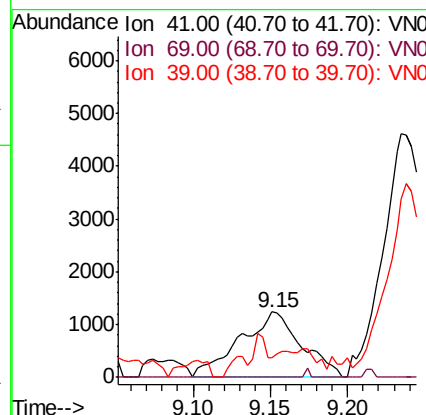
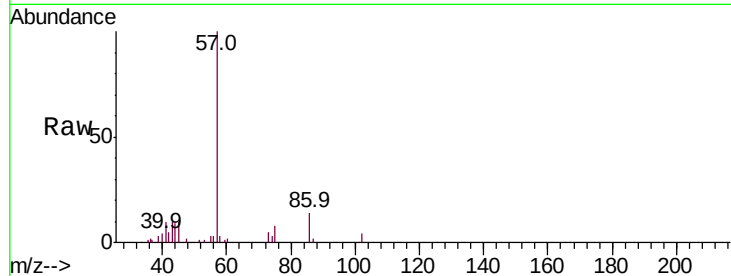




#48
Methvl methacrylate
Concen: 0.771 ug/l
RT: 9.15 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN063202.D
Acq: 2 Sep 2020 18:16

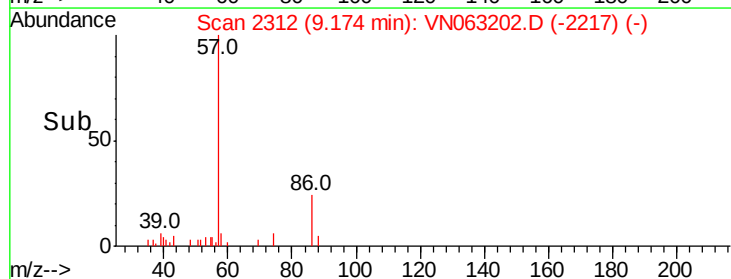
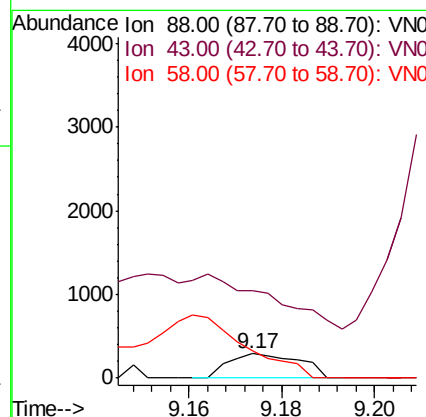
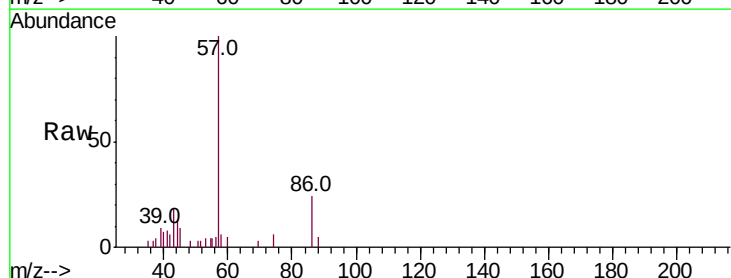
Instrument :
MSVOA_N
ClientSampleId :
Z4-IDW-SOIL-0820

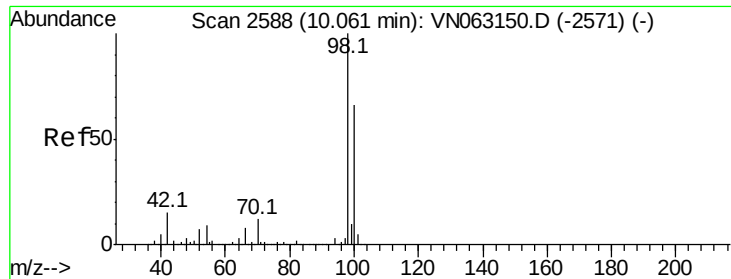
Tot Ion: 41 Resp: 3436
Ion Ratio Lower Upper
41 100
69 0.0 65.9 98.9#
39 9.0 52.0 78.0#



#49
1,4-Dioxane
Concen: 4.524 ug/l
RT: 9.17 min Scan# 2312
Delta R.T. 0.01 min
Lab File: VN063202.D
Acq: 2 Sep 2020 18:16

Tgt Ion: 88 Resp: 312
Ion Ratio Lower Upper
88 100
43 0.0 28.6 42.8#
58 0.0 53.2 79.8#

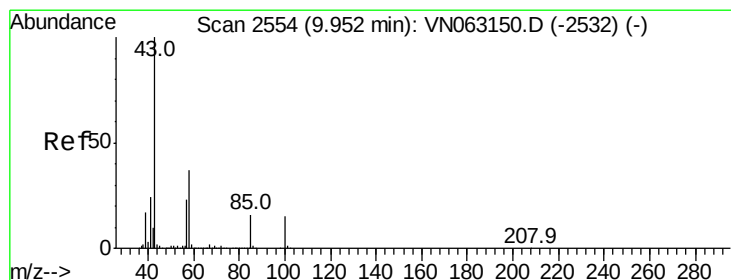
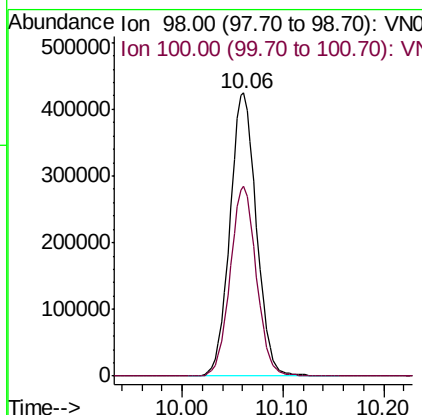
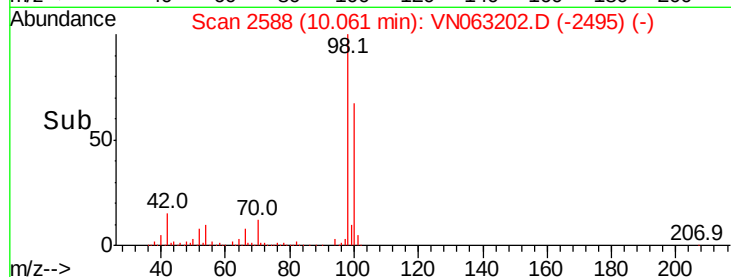
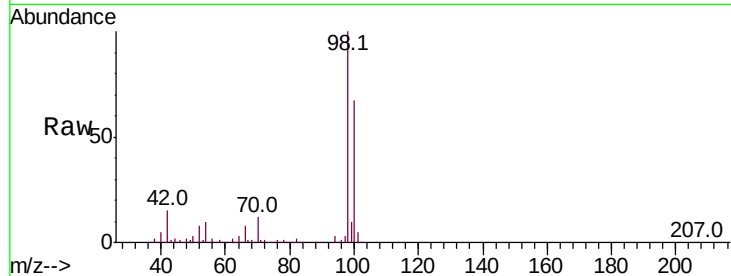




#50
Toluene-d8
Concen: 49.896 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN063202.D
Acq: 2 Sep 2020 18:16

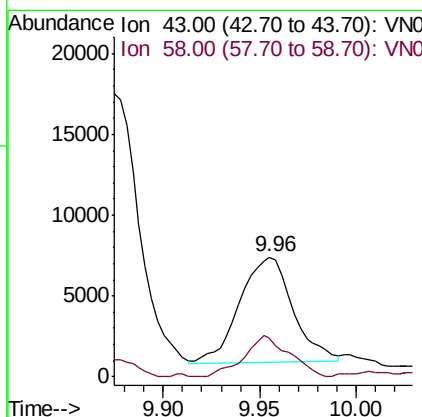
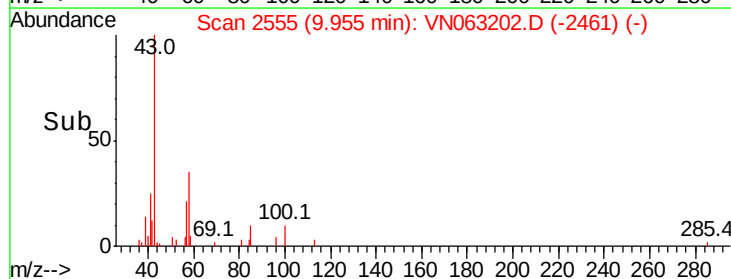
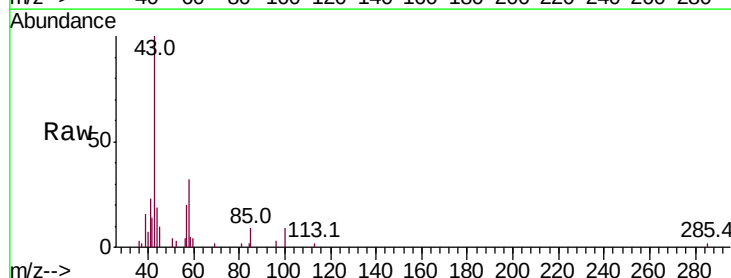
Instrument :
MSVOA_N
ClientSampleId :
Z4-IDW-SOIL-0820

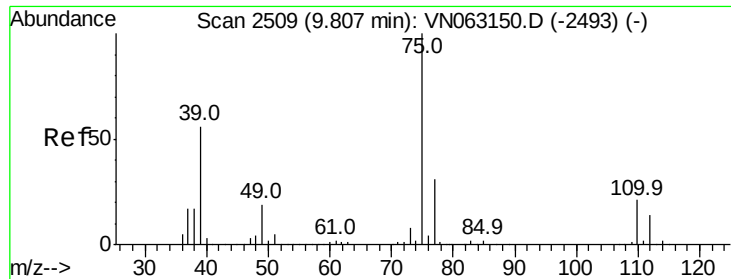
Tot Ion: 98 Resp: 777271
Ion Ratio Lower Upper
98 100
100 66.2 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 2.328 ug/l
RT: 9.96 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN063202.D
Acq: 2 Sep 2020 18:16

Tgt Ion: 43 Resp: 12510
Ion Ratio Lower Upper
43 100
58 33.1 29.2 43.8





#54

cis-1,3-Dichloropropene

Concen: 1.736 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063202.D

Acq: 2 Sep 2020 18:16

Instrument :

MSVOA_N

ClientSampleId :

Z4-IDW-SOIL-0820

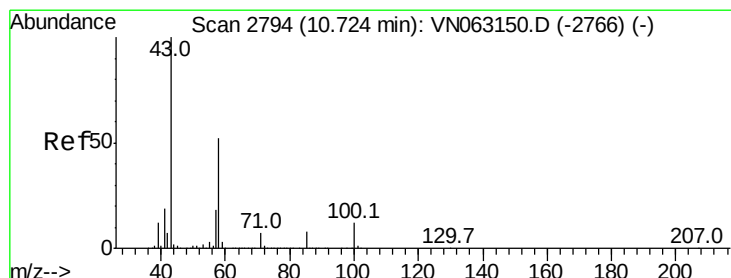
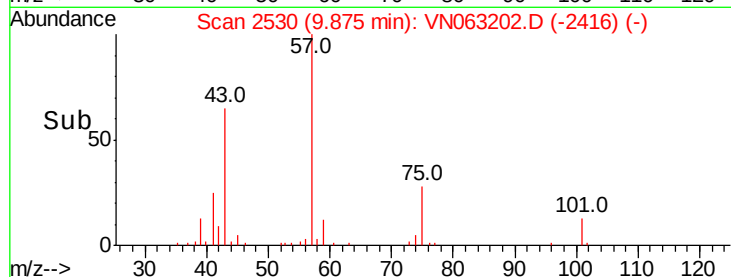
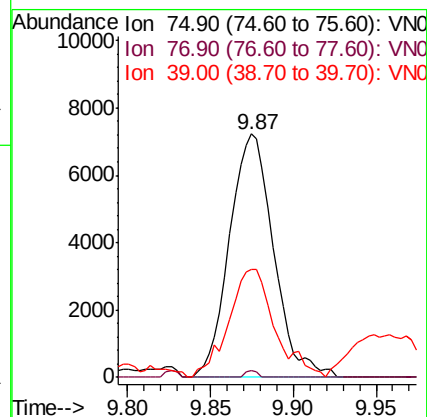
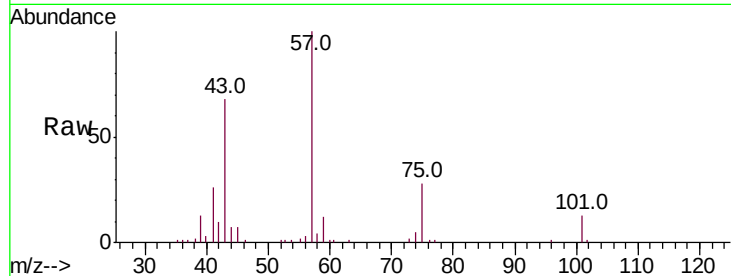
Tot Ion: 75 Resp: 13363

Ion Ratio Lower Upper

75 100

77 2.6 24.8 37.2#

39 44.4 45.0 67.6#



#59

2-Hexanone

Concen: 27.340 ug/l

RT: 10.69 min Scan# 2784

Delta R.T. -0.03 min

Lab File: VN063202.D

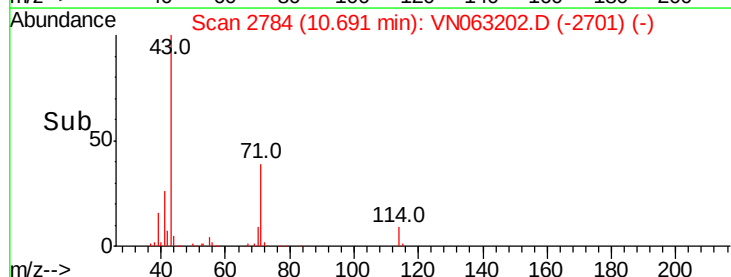
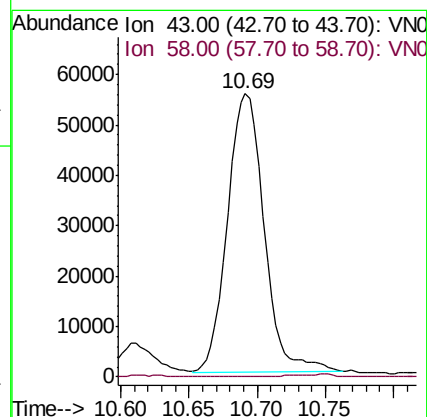
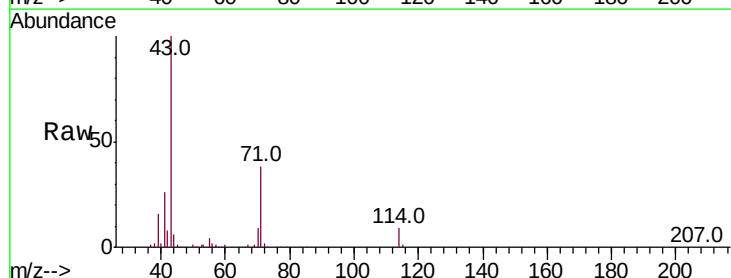
Acq: 2 Sep 2020 18:16

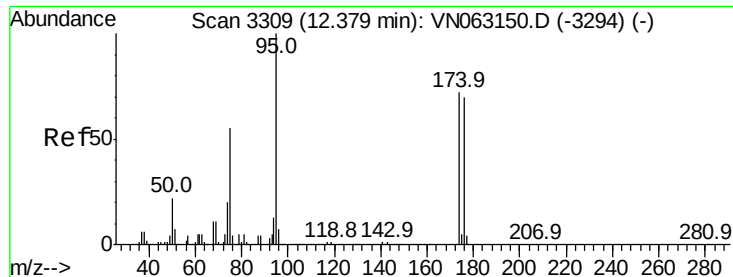
Tgt Ion: 43 Resp: 103270

Ion Ratio Lower Upper

43 100

58 0.1 25.9 77.8#





#62

4-Bromofluorobenzene

Concen: 50.590 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.00 min

Lab File: VN063202.D

Acq: 2 Sep 2020 18:16

Instrument :

MSVOA_N

ClientSampleId :

Z4-IDW-SOIL-0820

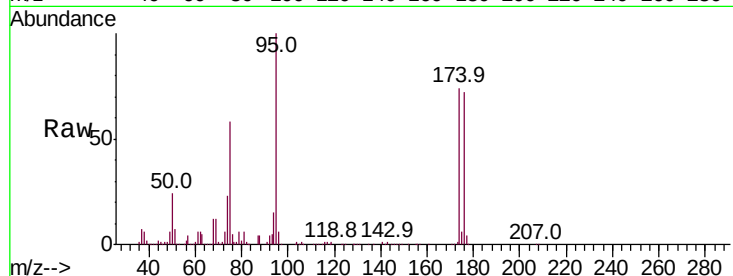
Tot Ion: 95 Resp: 275675

Ion Ratio Lower Upper

95 100

174 74.0 0.0 143.8

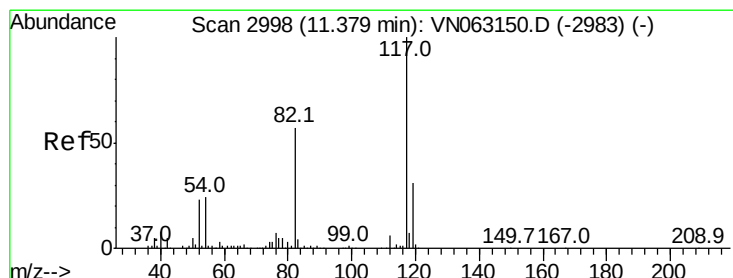
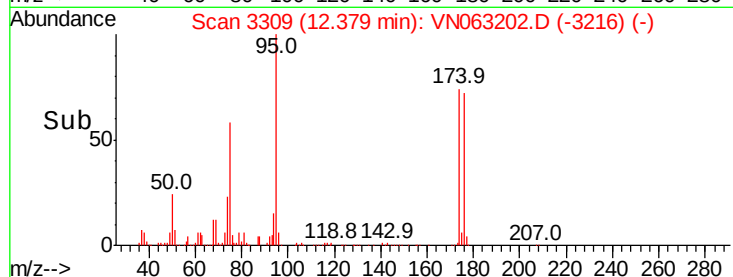
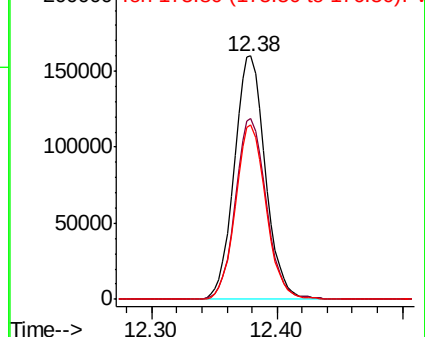
176 70.5 0.0 138.4



Abundance Ion 94.90 (94.60 to 95.60): VN063150.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN063150.D (-3294) (-)

Ion 175.80 (175.50 to 176.50): VN063150.D (-3294) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2999

Delta R.T. 0.00 min

Lab File: VN063202.D

Acq: 2 Sep 2020 18:16

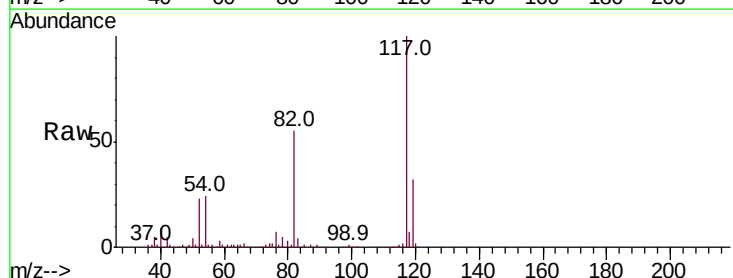
Tgt Ion: 117 Resp: 620586

Ion Ratio Lower Upper

117 100

82 55.1 45.4 68.0

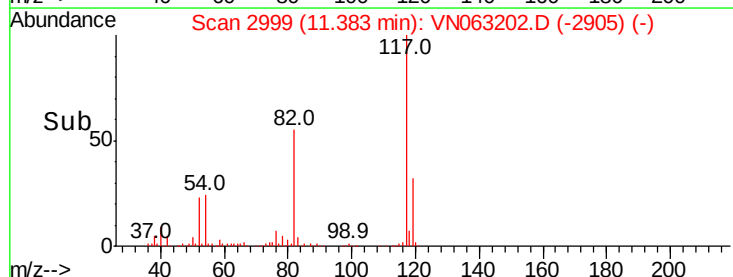
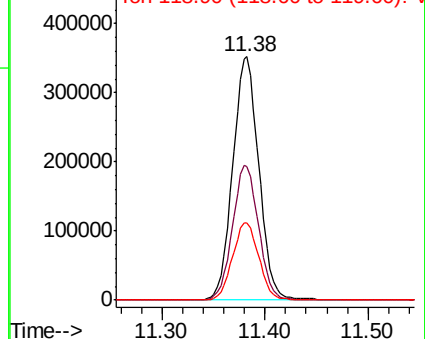
119 31.7 24.6 37.0

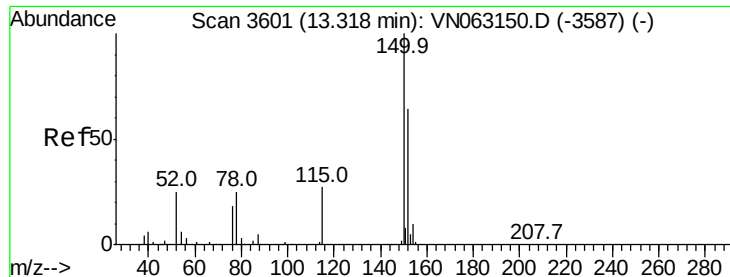


Abundance Ion 116.90 (116.60 to 117.60): VN063150.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN063150.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN063150.D (-2983) (-)

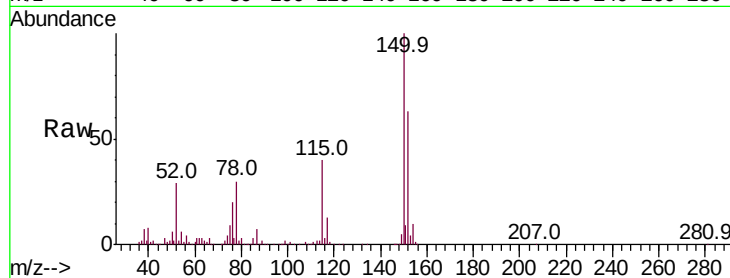




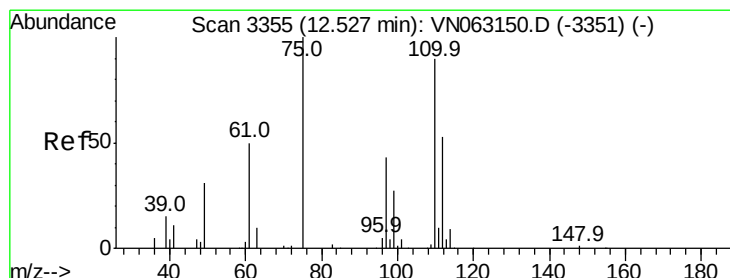
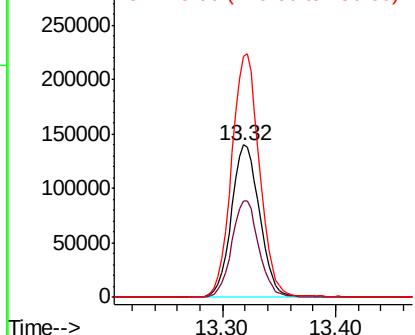
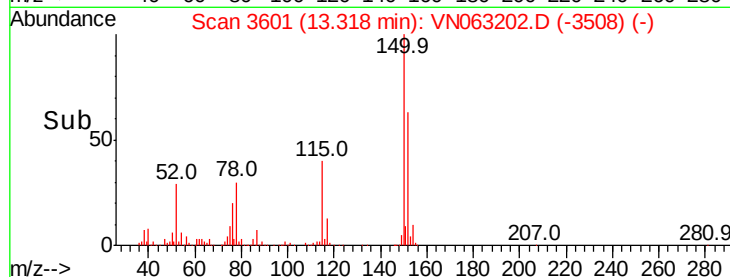
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VN063202.D
 Acq: 2 Sep 2020 18:16

Instrument :
 MSVOA_N
 ClientSampleId :
 Z4-IDW-SOIL-0820

Tot Ion:152 Resp: 243524
 Ion Ratio Lower Upper
 152 100
 115 60.7 32.0 96.2
 150 157.4 0.0 353.0

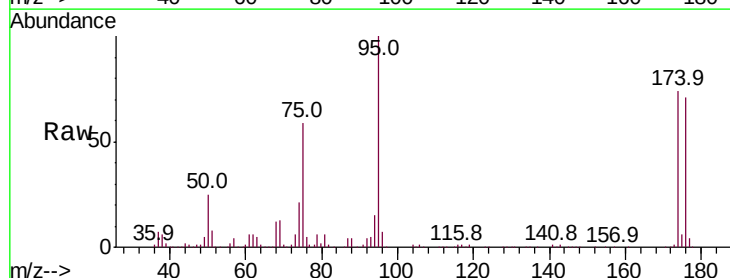


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

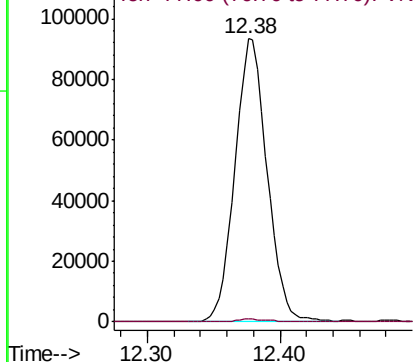
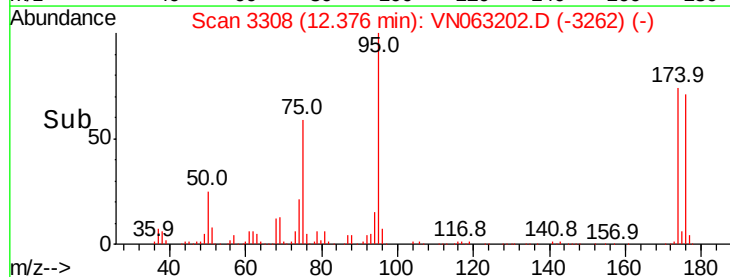


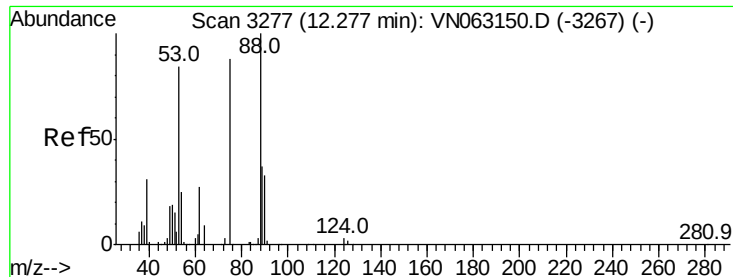
#76
 1,2,3-Trichloropropane
 Concen: 32.946 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN063202.D
 Acq: 2 Sep 2020 18:16

Tgt Ion: 75 Resp: 157638
 Ion Ratio Lower Upper
 75 100
 77 1.0 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: 79.630 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063202.D

Acq: 2 Sep 2020 18:16

Instrument :

MSVOA_N

ClientSampleId :

Z4-IDW-SOIL-0820

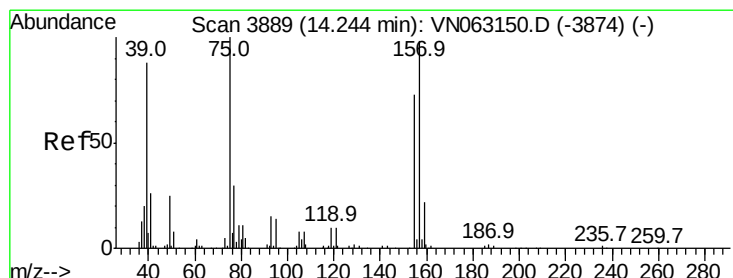
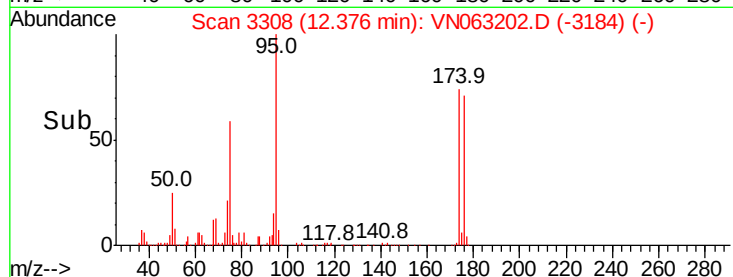
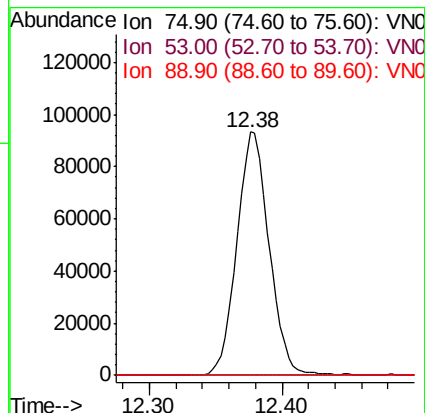
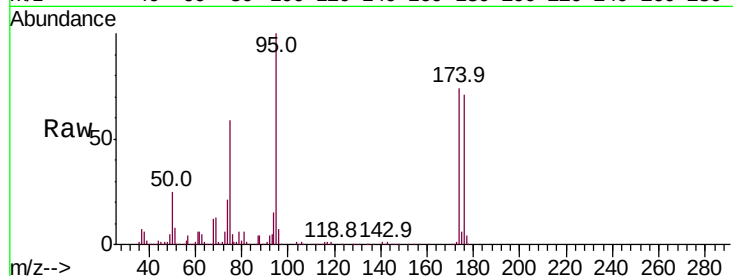
Tot Ion: 75 Resp: 157638

Ion Ratio Lower Upper

75 100

53 0.1 78.7 118.1#

89 0.0 35.3 52.9#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.200 ug/l

RT: 14.26 min Scan# 3895

Delta R.T. 0.02 min

Lab File: VN063202.D

Acq: 2 Sep 2020 18:16

Tgt Ion: 75 Resp: 237

Ion Ratio Lower Upper

75 100

155 0.0 36.1 108.5#

157 0.0 48.4 145.0#

