

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100120\
 Data File : VN063798.D
 Acq On : 2 Oct 2020 2:55
 Operator : JC/MD
 Sample : L4194-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CG-SOIL

Quant Time: Oct 02 04:25:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	214841	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	408994	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	418432	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	170839	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	190258	53.60	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	107.20%	
35) Dibromofluoromethane	7.55	113	134347	47.34	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.68%	
50) Toluene-d8	10.06	98	524184	48.72	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	97.44%	
62) 4-Bromofluorobenzene	12.38	95	204701	50.62	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	101.24%	

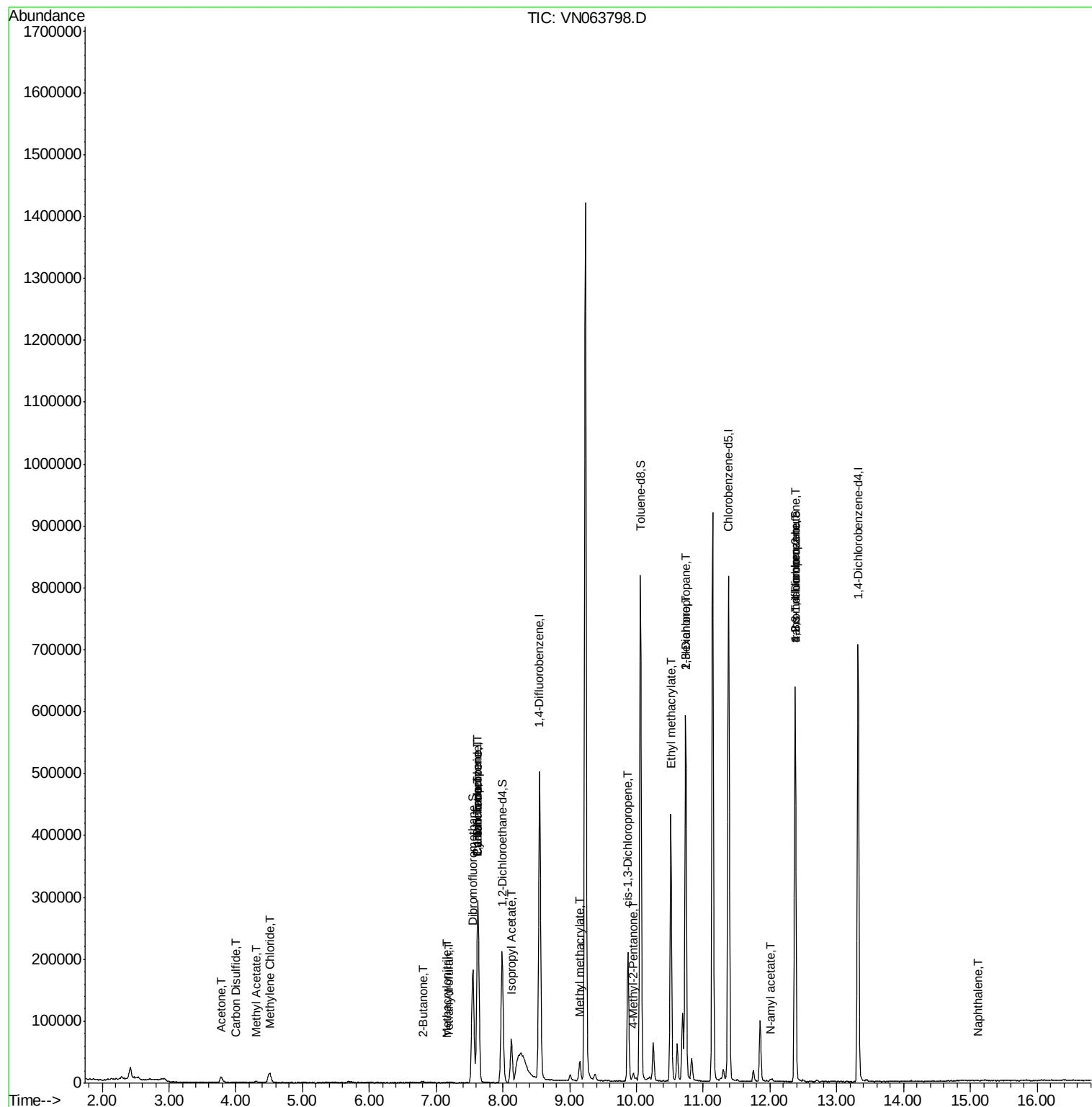
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	16842	15.415	ug/l	96
17) Carbon Disulfide	4.00	76	320	0.755	ug/l #	76
18) Methyl Acetate	4.29	43	2045	0.721	ug/l #	70
20) Methylene Chloride	4.51	84	11559	4.708	ug/l	84
25) 2-Butanone	6.80	43	2113	1.364	ug/l #	83
29) Tetrahydrofuran	7.18	42	1143	1.100	ug/l #	47
31) Cyclohexane	7.63	56	6929	1.682	ug/l #	38
36) 1,1-Dichloropropene	7.63	75	19879	4.798	ug/l #	46
38) Carbon Tetrachloride	7.62	117	23248	5.004	ug/l #	14
41) Methacrylonitrile	7.16	41	474	0.259	ug/l #	41
43) Isopropyl Acetate	8.13	43	81674	12.028	ug/l	99
48) Methyl methacrylate	9.14	41	4659	1.389	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	9063	2.274	ug/l	94
54) cis-1,3-Dichloropropene	9.87	75	32882	6.455	ug/l #	67
56) Ethyl methacrylate	10.51	69	1997	0.480	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5987	1.205	ug/l #	43
59) 2-Hexanone	10.74	43	92877	31.376	ug/l #	54
74) N-amyl acetate	12.01	43	3073	2.723	ug/l #	53
76) 1,2,3-Trichloropropane	12.38	75	118371	31.432	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	118371	90.528	ug/l #	6
95) Naphthalene	15.11	128	232	1.949	ug/l #	69

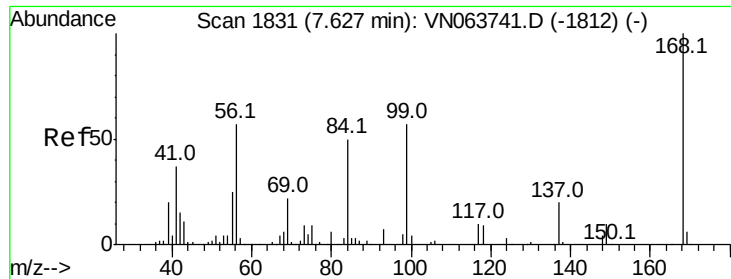
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Oct 01 01:46:38 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: VN063798.D

Acq: 2 Oct 2020 2:55

Instrument :

MSVOA_N

ClientSampled :

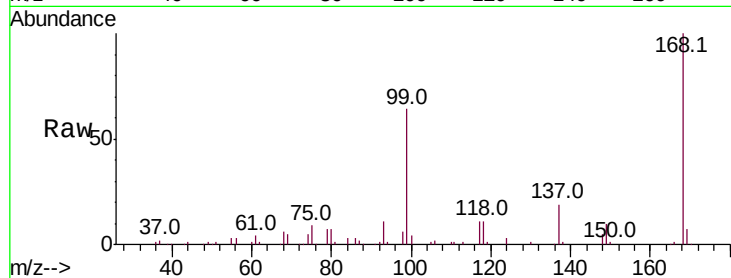
CG-SOIL

Tot Ion:168 Resp: 214841

Ion Ratio Lower Upper

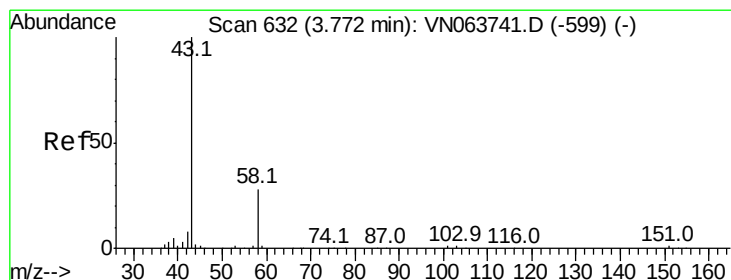
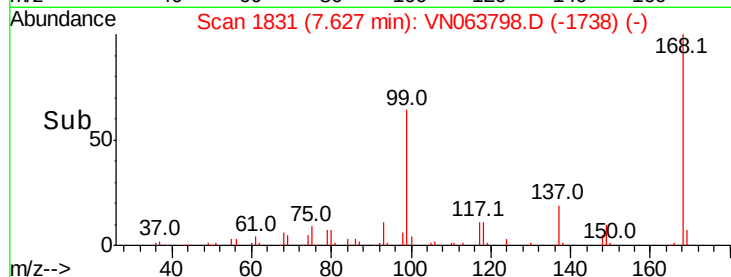
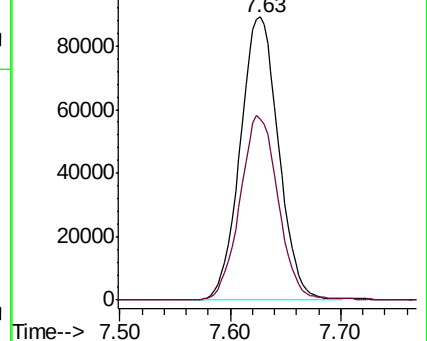
168 100

99 64.2 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 15.415 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN063798.D

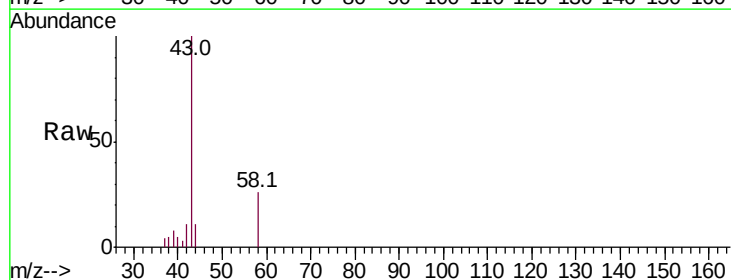
Acq: 2 Oct 2020 2:55

Tgt Ion: 43 Resp: 16842

Ion Ratio Lower Upper

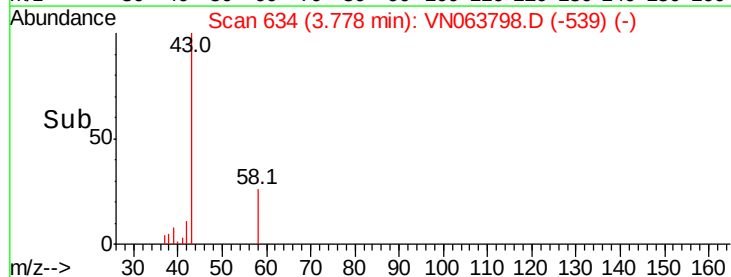
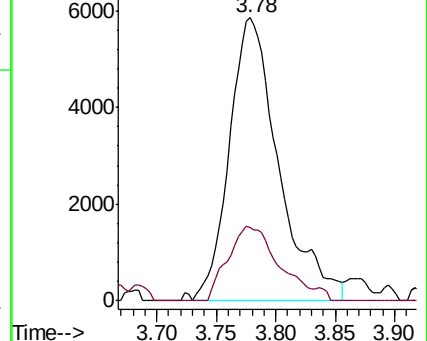
43 100

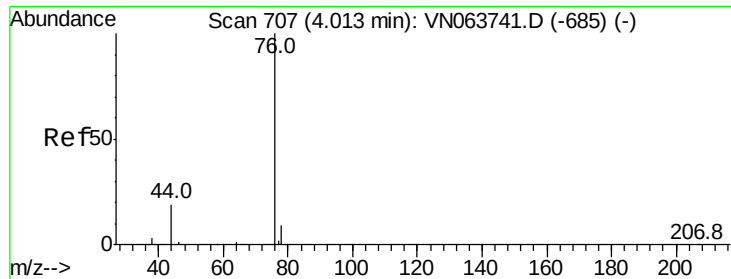
58 26.0 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

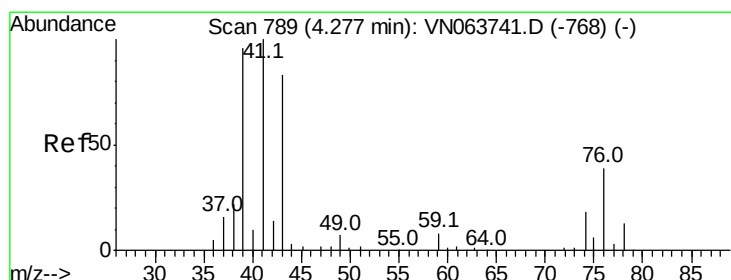
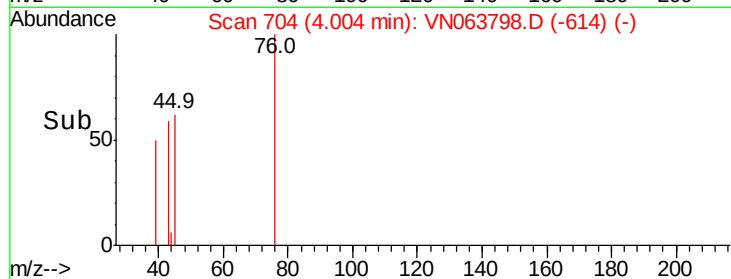
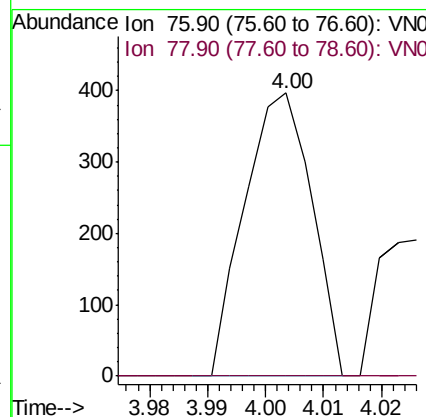
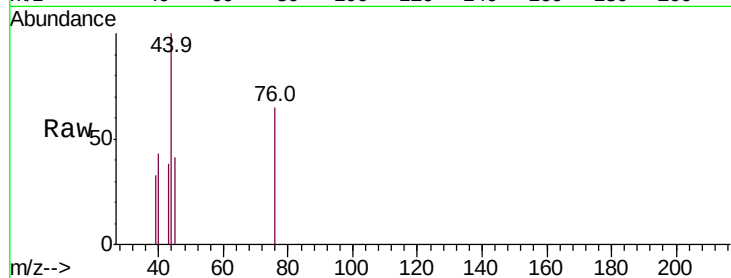




#17
Carbon Disulfide
Concen: 0.755 ug/l
RT: 4.00 min Scan# 704
Delta R.T. -0.01 min
Lab File: VN063798.D
Acq: 2 Oct 2020 2:55

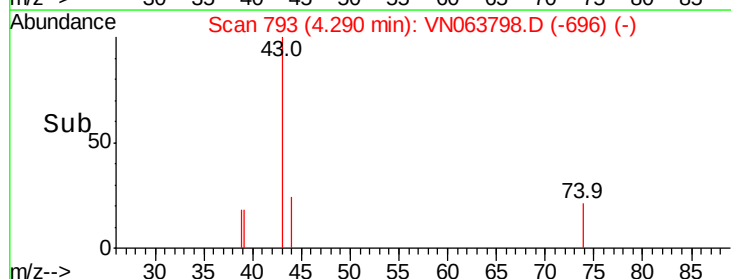
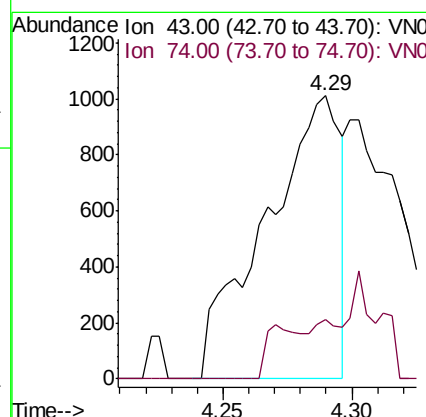
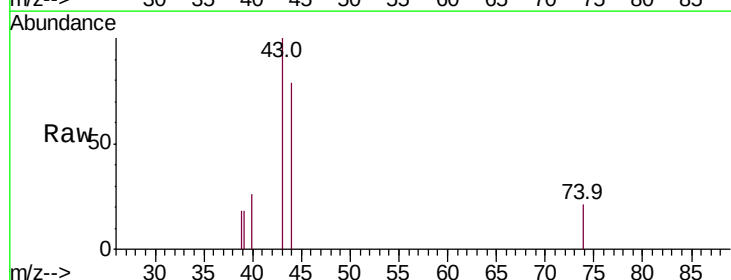
Instrument :
MSVOA_N
ClientSampleId :
CG-SOIL

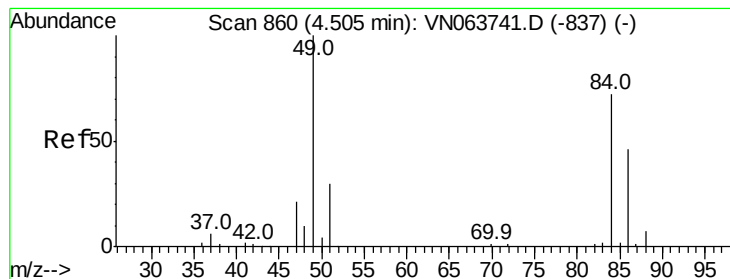
Tot Ion: 76 Resp: 320
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#



#18
Methyl Acetate
Concen: 0.721 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN063798.D
Acq: 2 Oct 2020 2:55

Tgt Ion: 43 Resp: 2045
Ion Ratio Lower Upper
43 100
74 7.3 17.4 26.2#





#20

Methvlene Chloride

Concen: 4.708 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.00 min

Lab File: VN063798.D

Acq: 2 Oct 2020 2:55

Instrument :

MSVOA_N

ClientSampled :

CG-SOIL

Tot Ion: 84 Resp: 11559

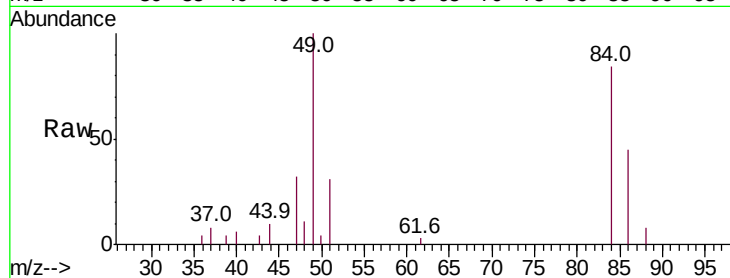
Ion Ratio Lower Upper

84 100

49 114.3 110.4 165.6

51 36.5 33.3 49.9

86 53.8 50.7 76.1

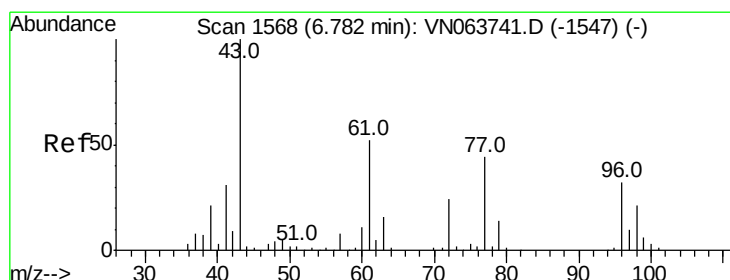
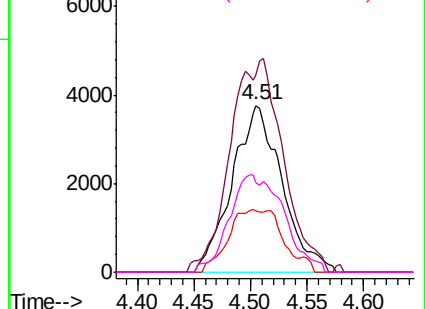
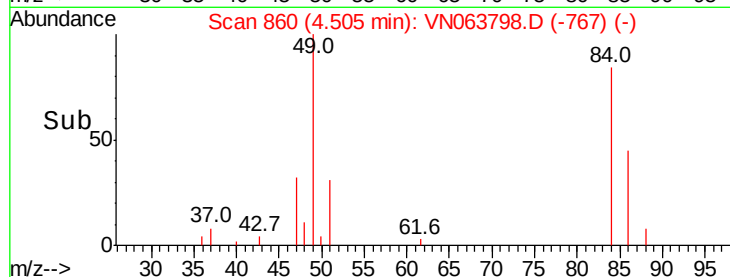


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 1.364 ug/l

RT: 6.80 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN063798.D

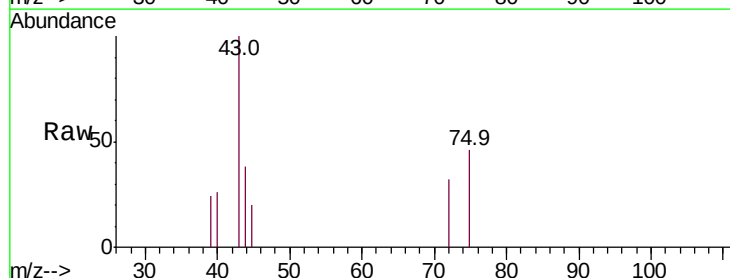
Acq: 2 Oct 2020 2:55

Tgt Ion: 43 Resp: 2113

Ion Ratio Lower Upper

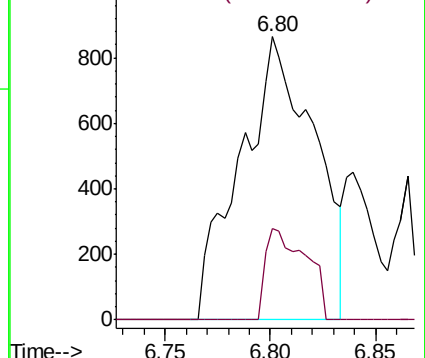
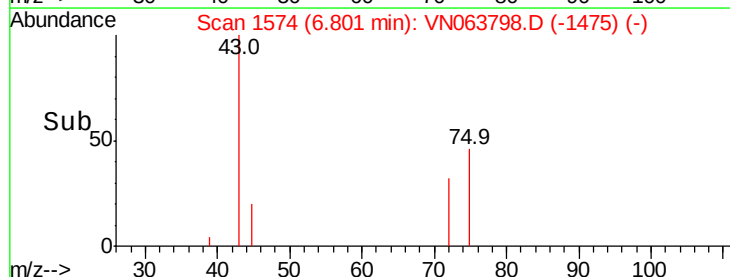
43 100

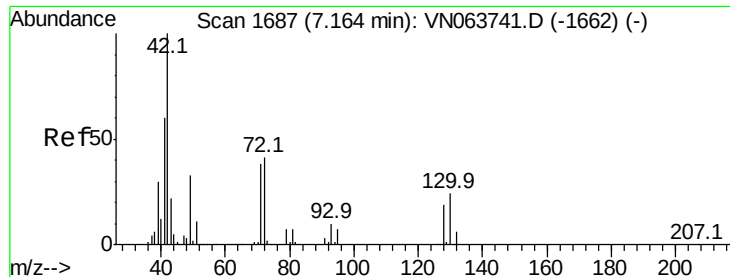
72 32.3 19.3 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 1.100 ug/l

RT: 7.18 min Scan# 1692

Delta R.T. 0.02 min

Lab File: VN063798.D

Acq: 2 Oct 2020 2:55

Instrument :

MSVOA_N

ClientSampled :

CG-SOIL

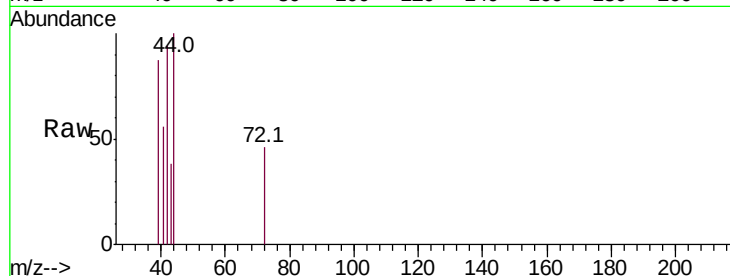
Tot Ion: 42 Resp: 1143

Ion Ratio Lower Upper

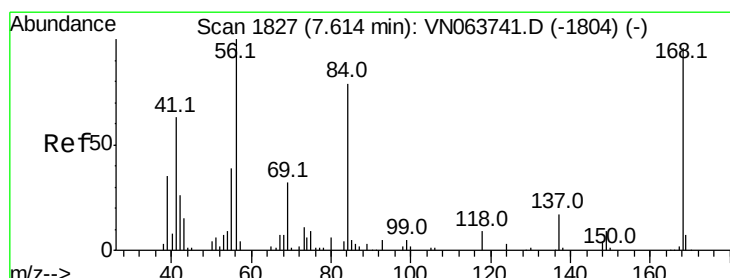
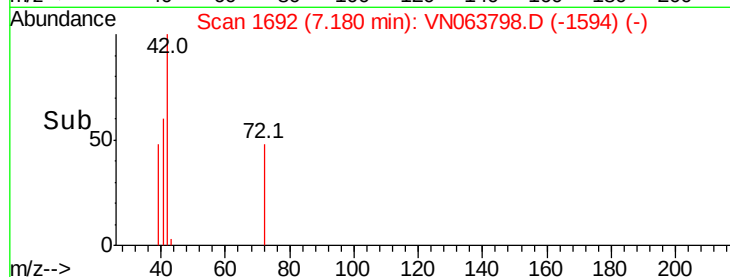
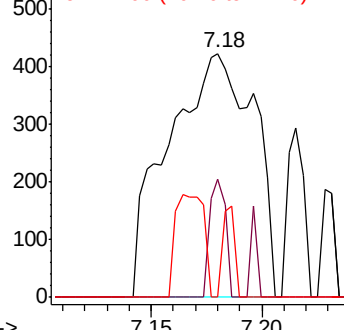
42 100

72 9.1 32.8 49.2#

71 5.2 30.6 45.8#



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: 1.682 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN063798.D

Acq: 2 Oct 2020 2:55

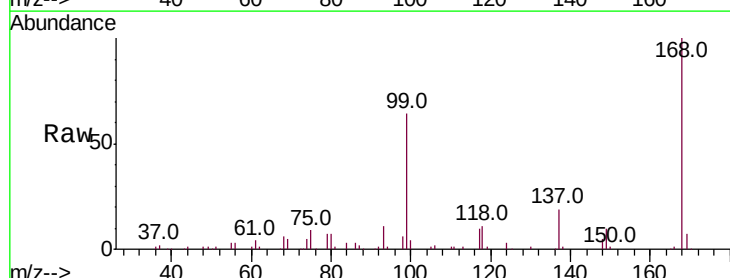
Tgt Ion: 56 Resp: 6929

Ion Ratio Lower Upper

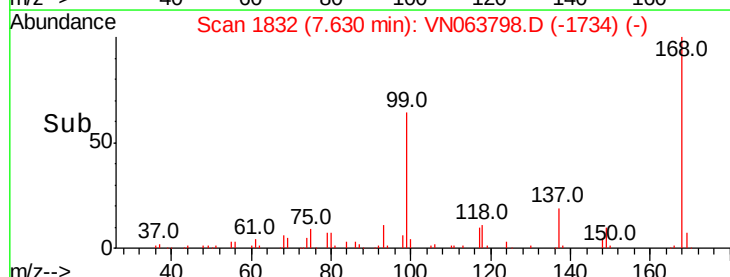
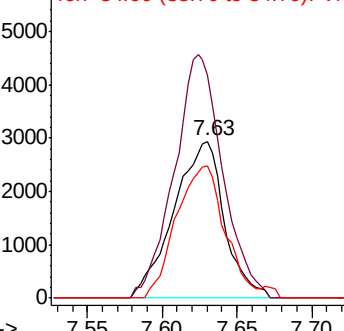
56 100

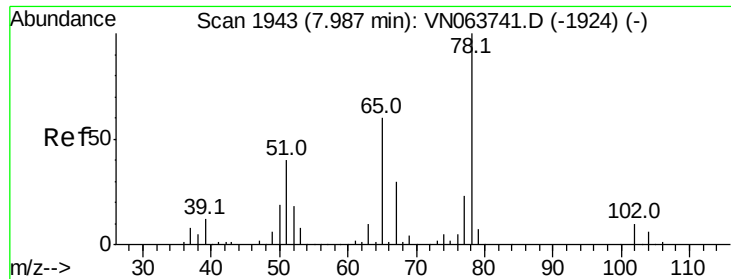
69 142.7 25.4 38.2#

84 84.7 63.3 94.9



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

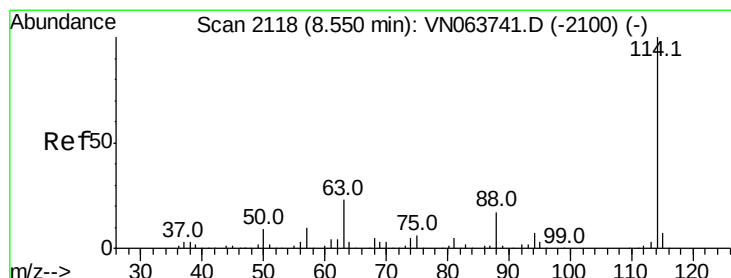
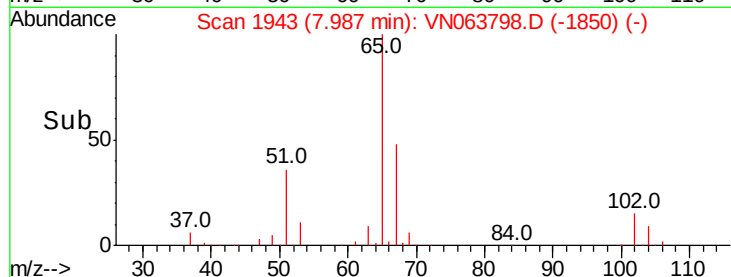
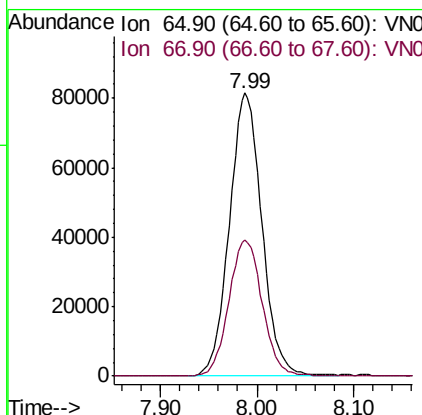
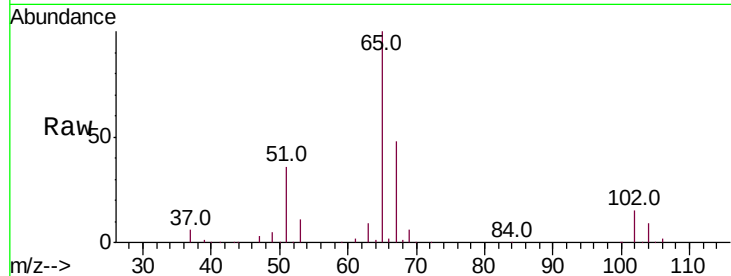




#33
 1,2-Dichloroethane-d4
 Concen: 53.604 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN063798.D
 Acq: 2 Oct 2020 2:55

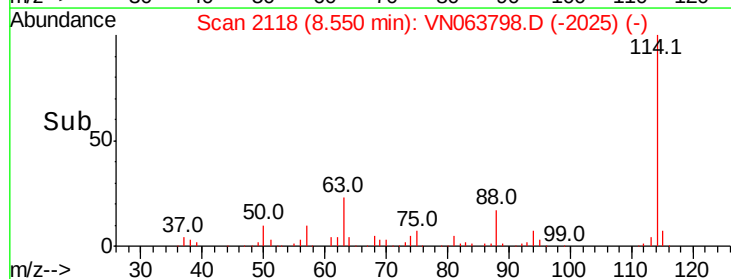
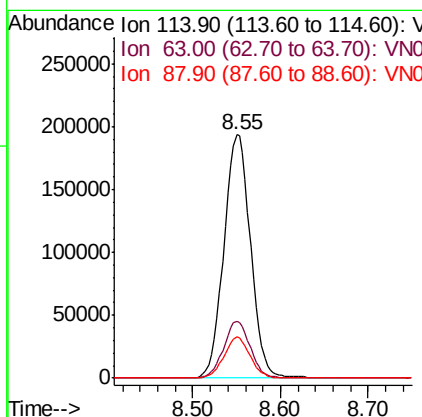
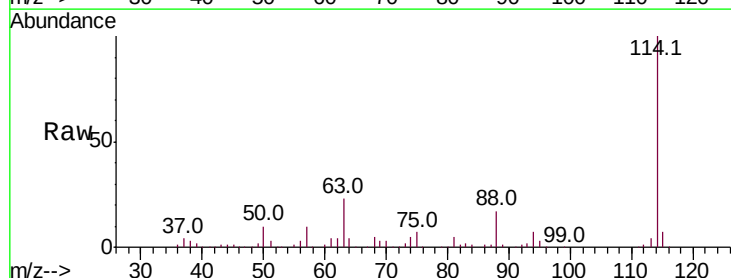
Instrument :
 MSVOA_N
 ClientSampled :
 CG-SOIL

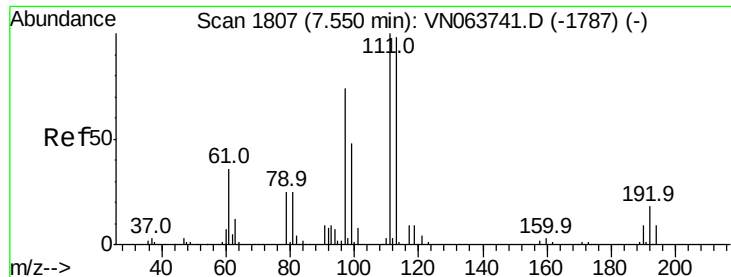
Tot Ion: 65 Resp: 190258
 Ion Ratio Lower Upper
 65 100
 67 49.4 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN063798.D
 Acq: 2 Oct 2020 2:55

Tgt Ion: 114 Resp: 408994
 Ion Ratio Lower Upper
 114 100
 63 23.4 0.0 45.0
 88 16.9 0.0 34.0

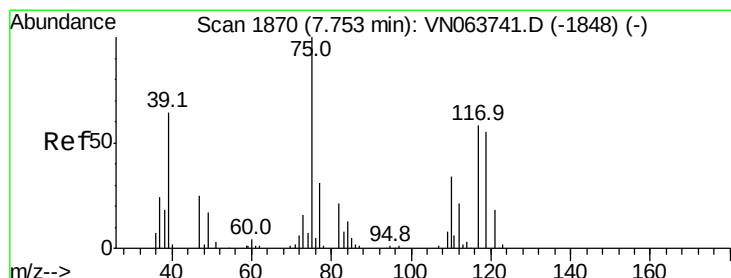
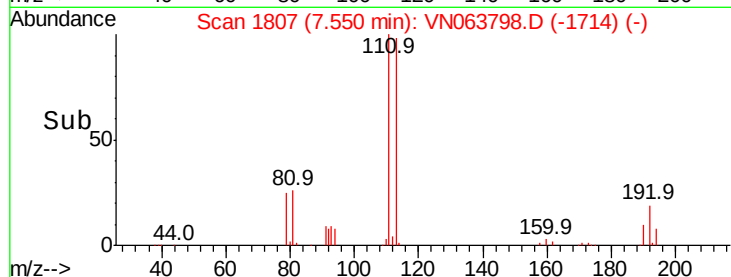
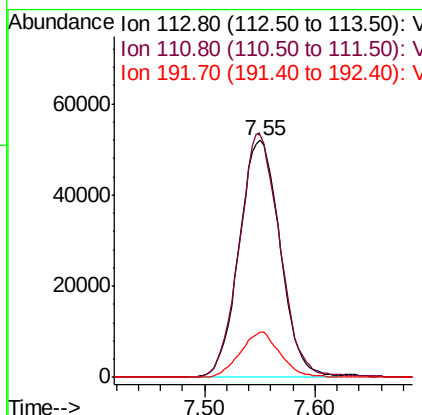
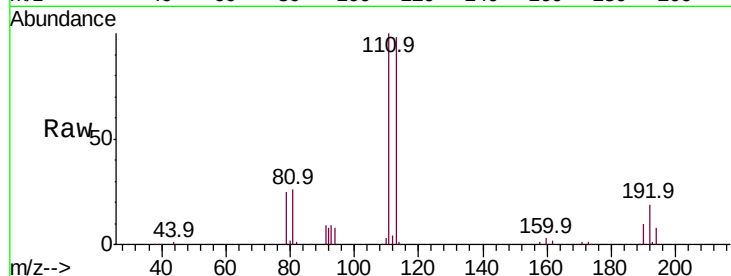




#35
 Dibromofluoromethane
 Concen: 47.340 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN063798.D
 Acq: 2 Oct 2020 2:55

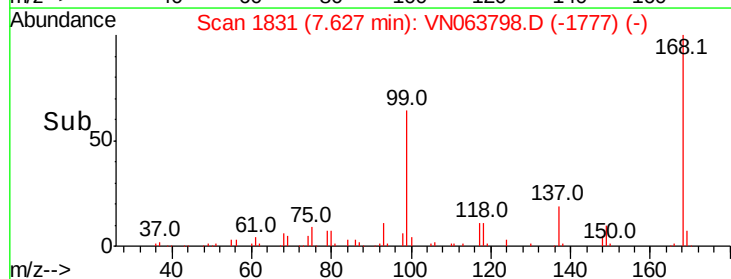
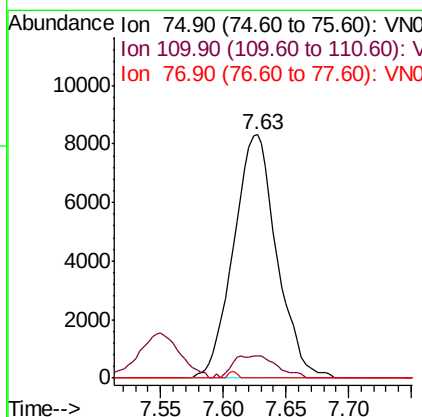
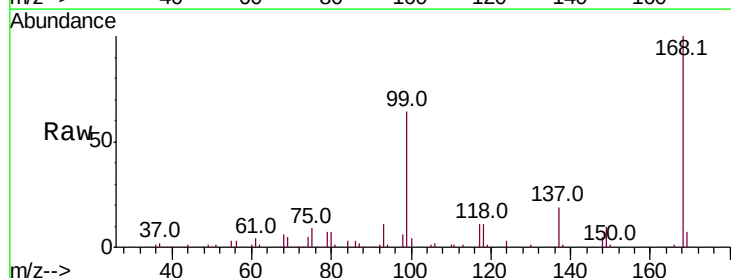
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 CG-SOIL

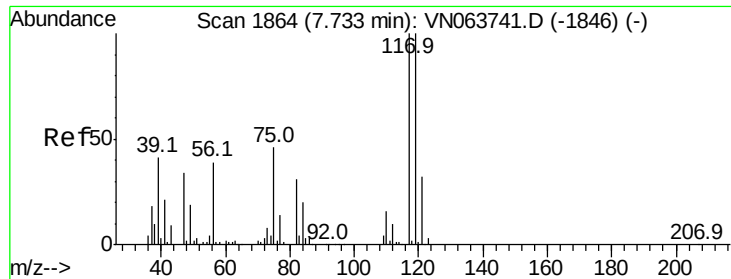
Tot Ion:113 Resp: 134347
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.8 122.8
 192 18.6 14.2 21.2



#36
 1,1-Dichloropropene
 Concen: 4.798 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063798.D
 Acq: 2 Oct 2020 2:55

Tgt Ion: 75 Resp: 19879
 Ion Ratio Lower Upper
 75 100
 110 3.3 16.9 50.6#
 77 0.6 24.5 36.7#





#38

Carbon Tetrachloride

Concen: 5.004 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN063798.D

Acq: 2 Oct 2020 2:55

Instrument :

MSVOA_N

ClientSampled :

CG-SOIL

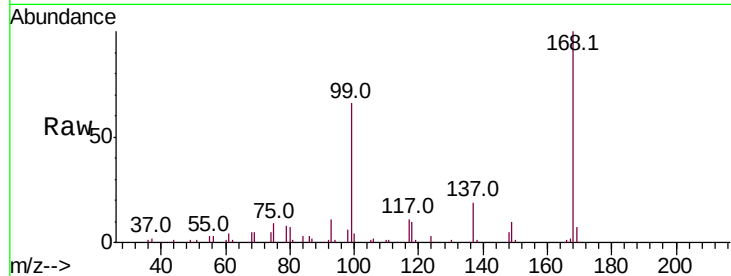
Tot Ion:117 Resp: 23248

Ion Ratio Lower Upper

117 100

119 5.3 80.1 120.1#

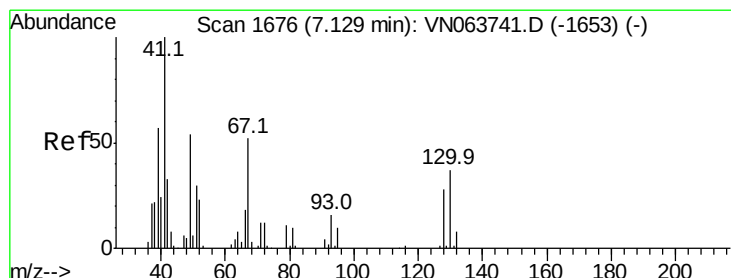
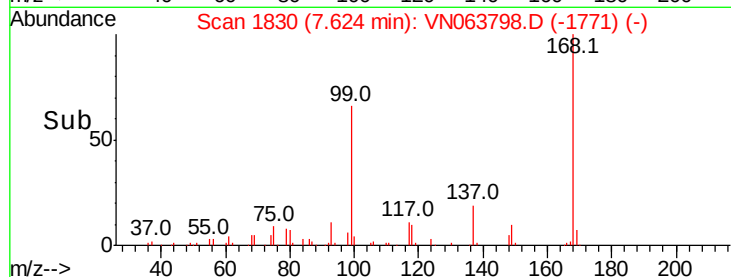
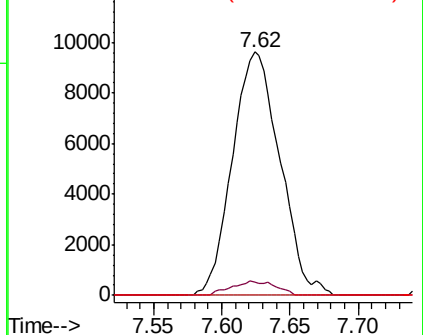
121 0.0 25.7 38.5#



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



#41

Methacrylonitrile

Concen: 0.259 ug/l

RT: 7.16 min Scan# 1685

Delta R.T. 0.03 min

Lab File: VN063798.D

Acq: 2 Oct 2020 2:55

Tgt Ion: 41 Resp: 474

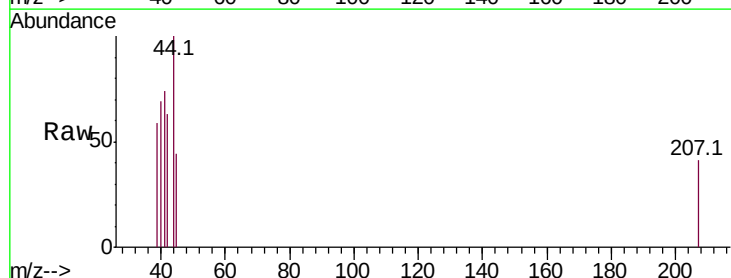
Ion Ratio Lower Upper

41 100

39 36.7 42.5 63.7#

67 0.0 57.4 86.2#

52 0.0 26.9 40.3#

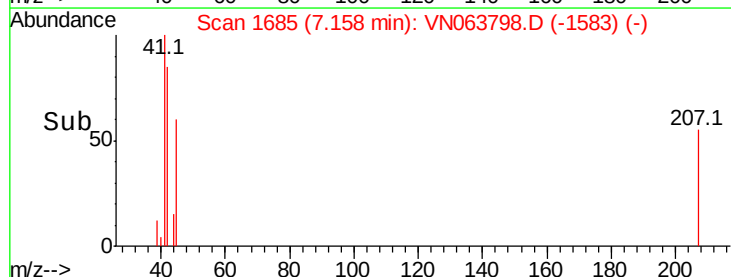
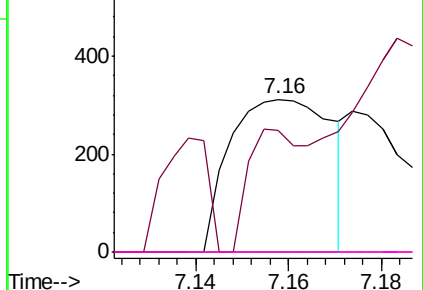


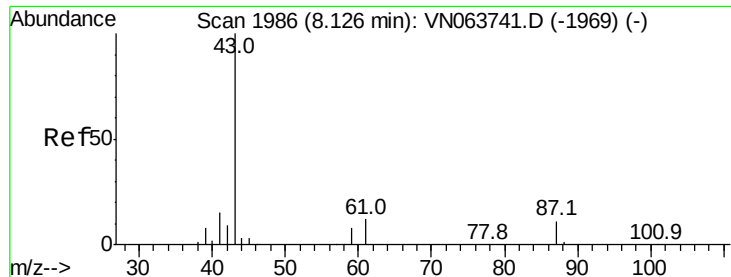
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 12.028 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063798.D

Acq: 2 Oct 2020 2:55

Instrument :

MSVOA_N

ClientSampleId :

CG-SOIL

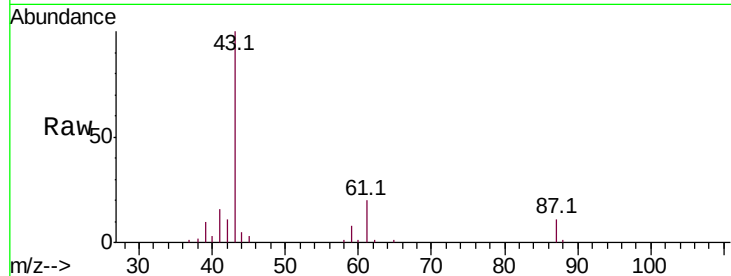
Tot Ion: 43 Resp: 81674

Ion Ratio Lower Upper

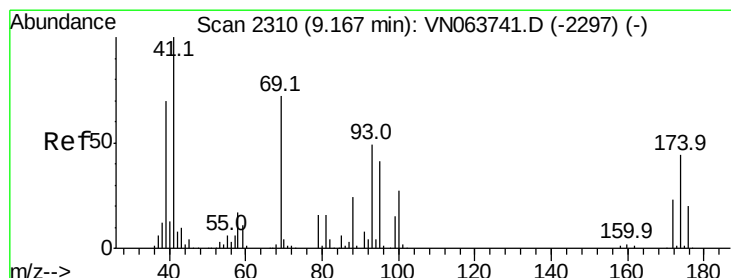
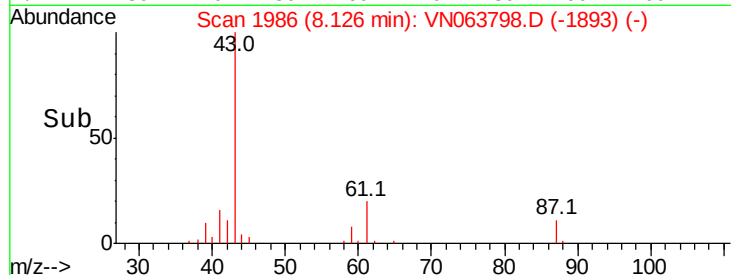
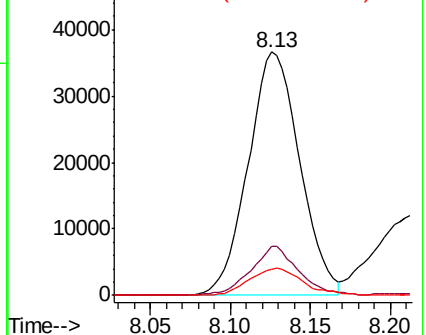
43 100

61 18.5 14.2 21.4

87 11.4 9.0 13.6



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



#48

Methyl methacrylate

Concen: 1.389 ug/l

RT: 9.14 min Scan# 2302

Delta R.T. -0.03 min

Lab File: VN063798.D

Acq: 2 Oct 2020 2:55

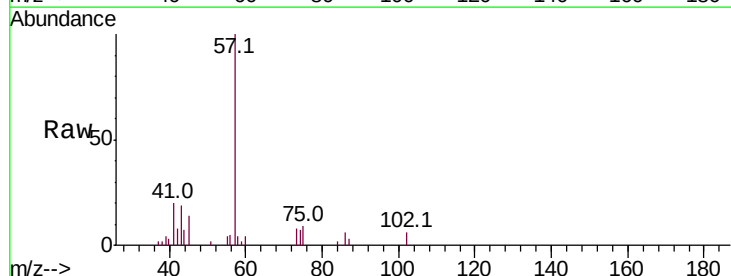
Tgt Ion: 41 Resp: 4659

Ion Ratio Lower Upper

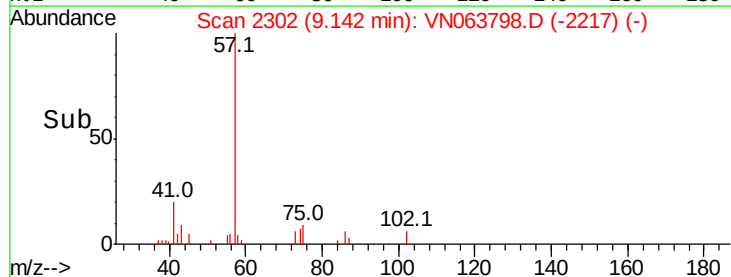
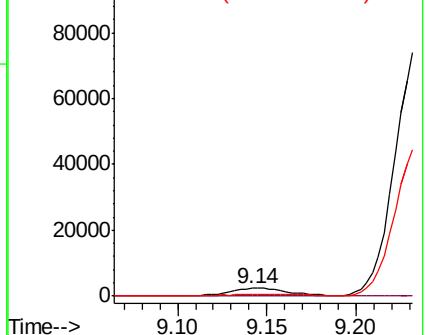
41 100

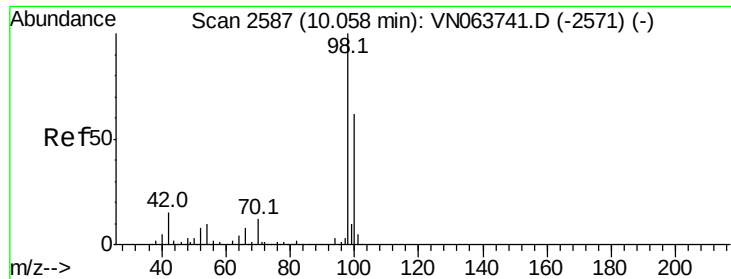
69 0.0 60.9 91.3#

39 0.0 57.5 86.3#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 48.724 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN063798.D

Acq: 2 Oct 2020 2:55

Instrument :

MSVOA_N

ClientSampled :

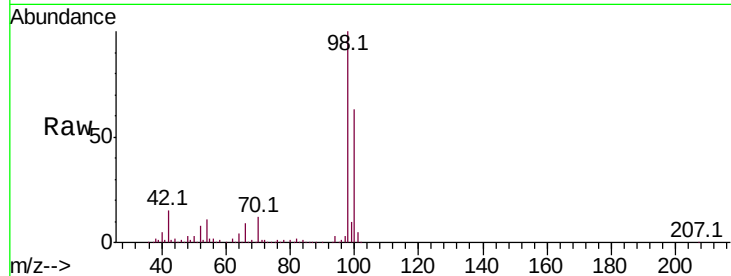
CG-SOIL

Tot Ion: 98 Resp: 524184

Ion Ratio Lower Upper

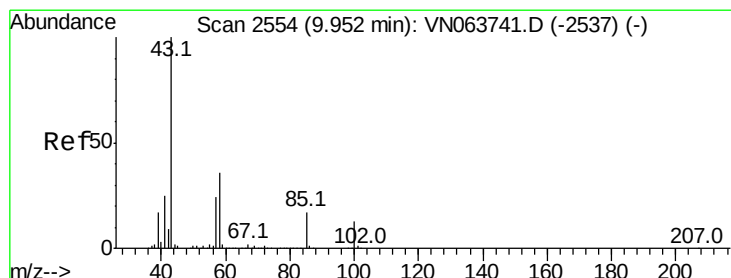
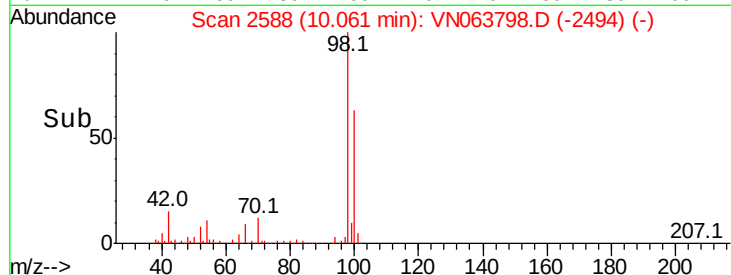
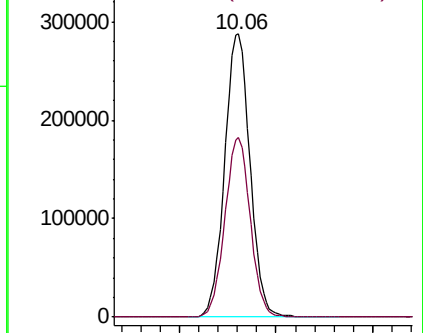
98 100

100 63.3 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 2.274 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN063798.D

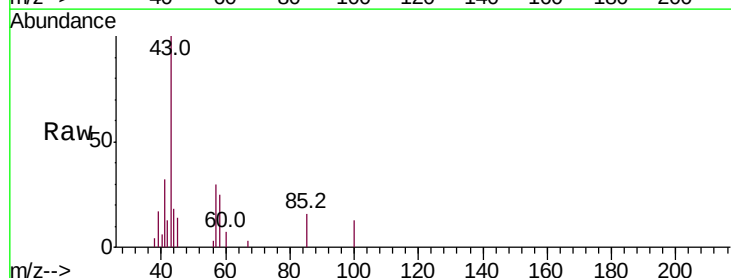
Acq: 2 Oct 2020 2:55

Tgt Ion: 43 Resp: 9063

Ion Ratio Lower Upper

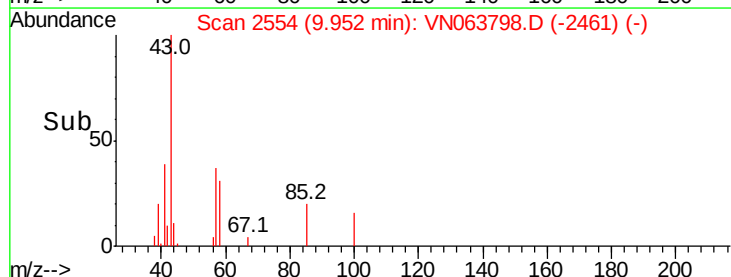
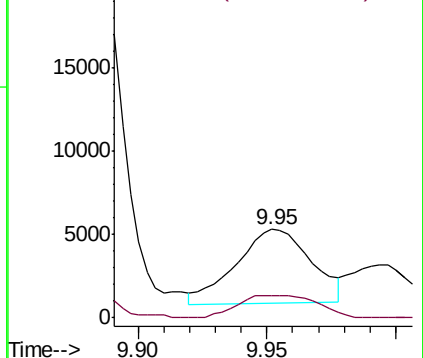
43 100

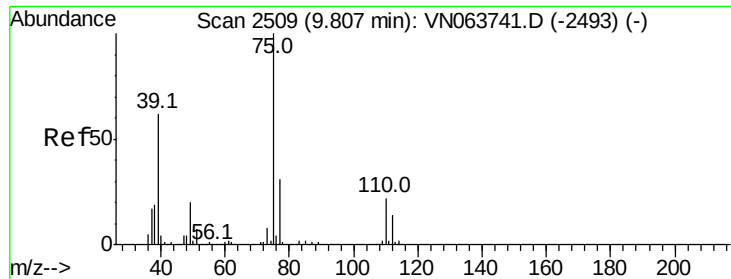
58 31.8 28.4 42.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 6.455 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063798.D

Acq: 2 Oct 2020 2:55

Instrument :

MSVOA_N

ClientSampled :

CG-SOIL

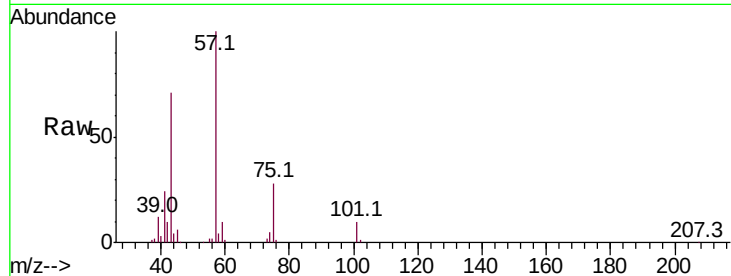
Tot Ion: 75 Resp: 32882

Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

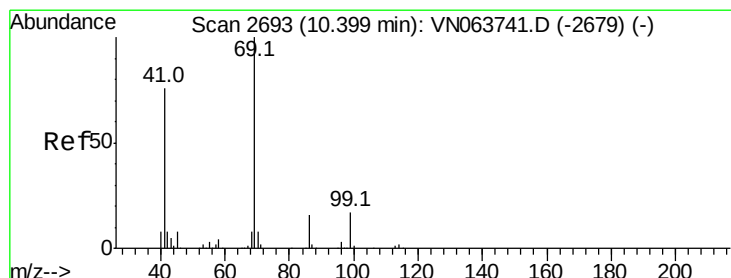
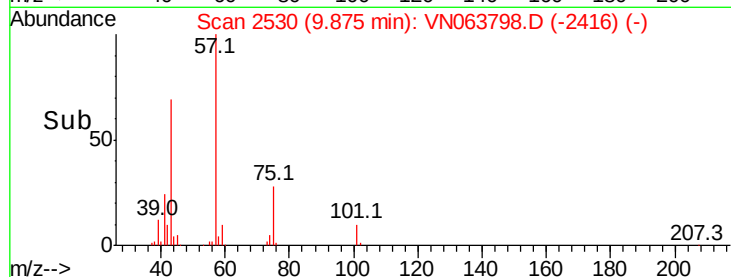
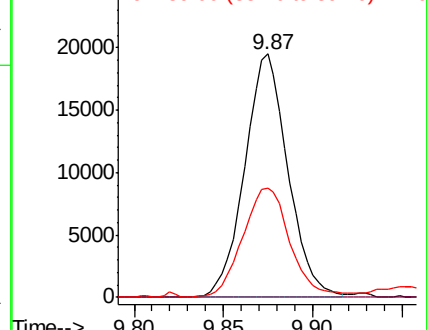
39 45.1 49.7 74.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.480 ug/l

RT: 10.51 min Scan# 2728

Delta R.T. 0.11 min

Lab File: VN063798.D

Acq: 2 Oct 2020 2:55

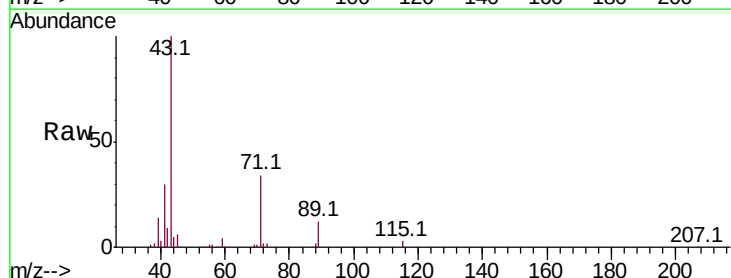
Tgt Ion: 69 Resp: 1997

Ion Ratio Lower Upper

69 100

41 4634.1 61.1 91.7#

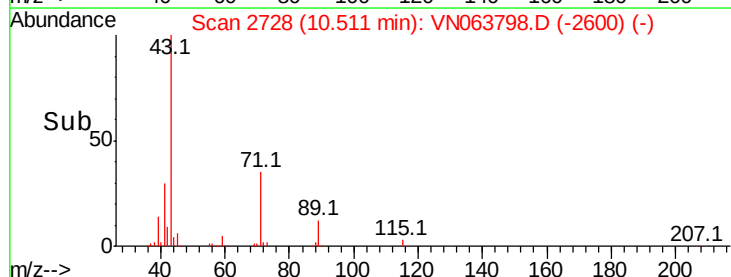
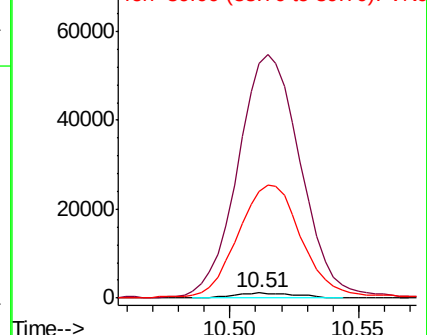
39 2234.0 42.2 63.4#

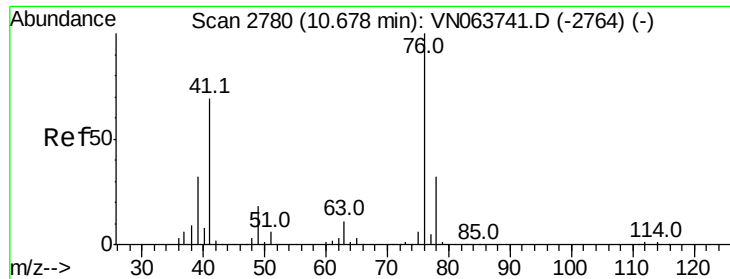


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.205 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.06 min

Lab File: VN063798.D

Acq: 2 Oct 2020 2:55

Instrument :

MSVOA_N

ClientSampled :

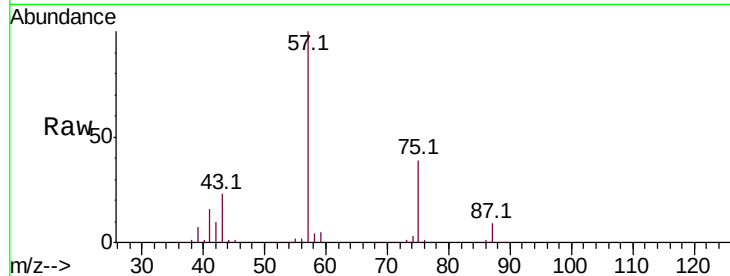
CG-SOIL

Tot Ion: 76 Resp: 5987

Ion Ratio Lower Upper

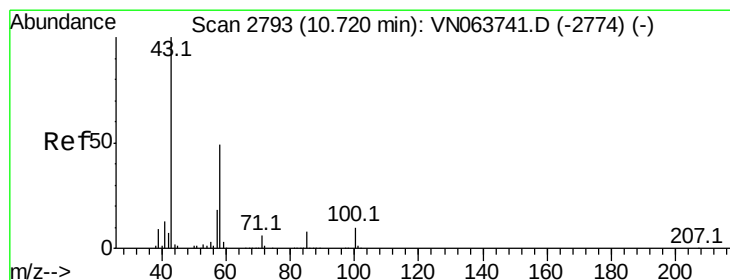
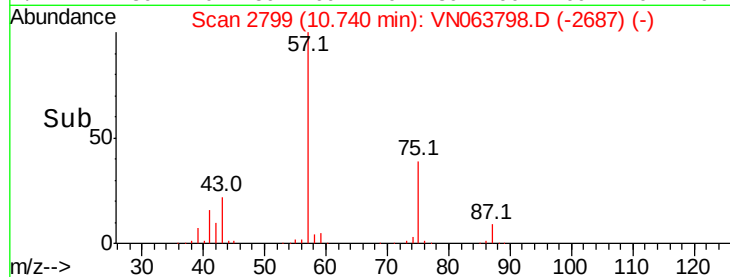
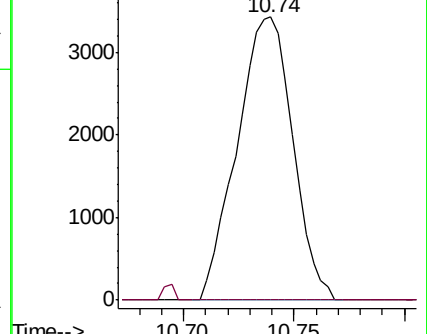
76 100

78 0.0 25.2 37.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 31.376 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063798.D

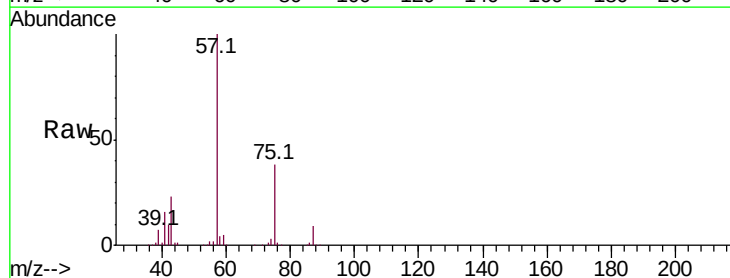
Acq: 2 Oct 2020 2:55

Tgt Ion: 43 Resp: 92877

Ion Ratio Lower Upper

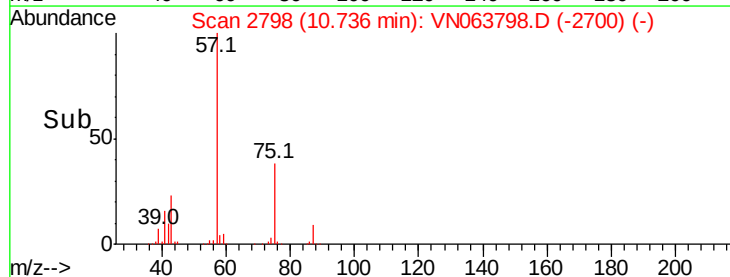
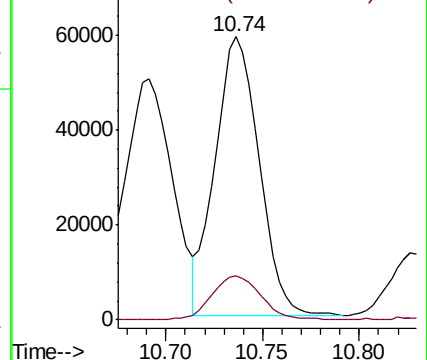
43 100

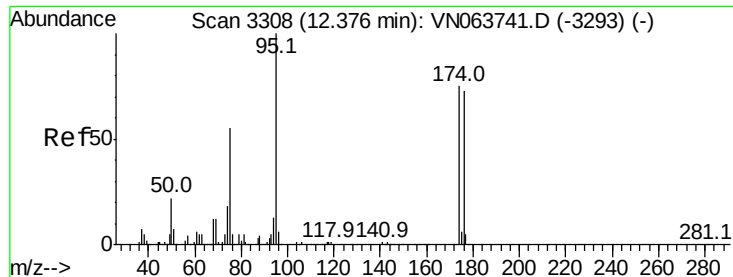
58 17.6 24.6 73.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

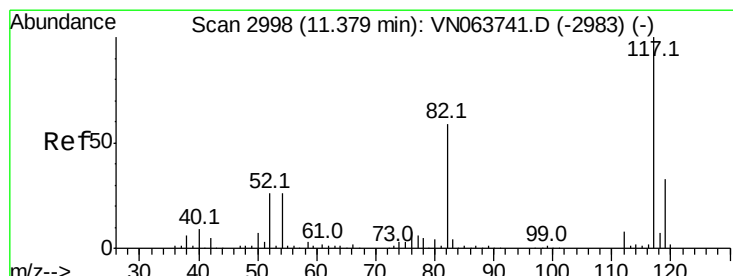
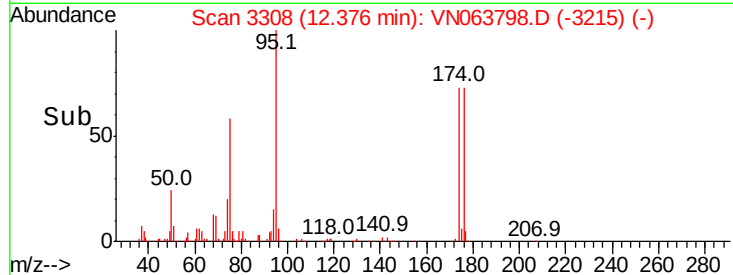
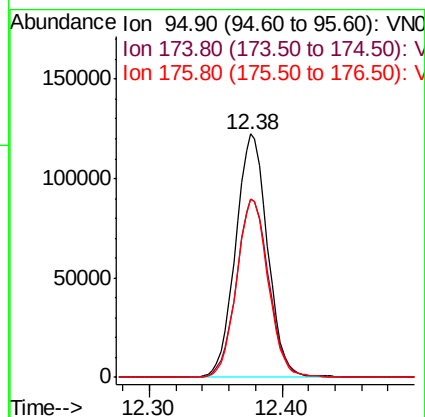
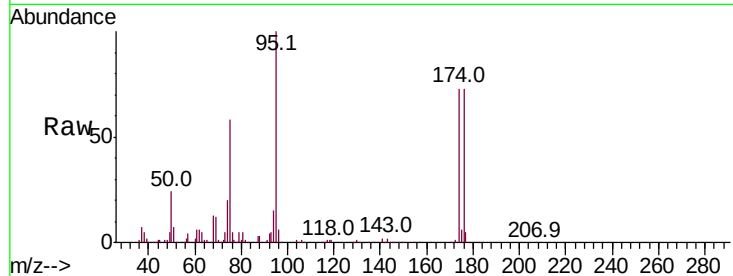




#62
4-Bromofluorobenzene
Concen: 50.617 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063798.D
Acq: 2 Oct 2020 2:55

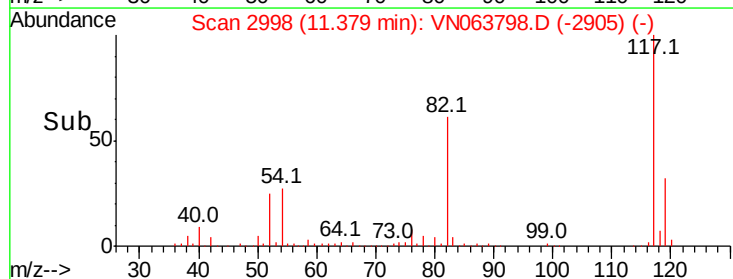
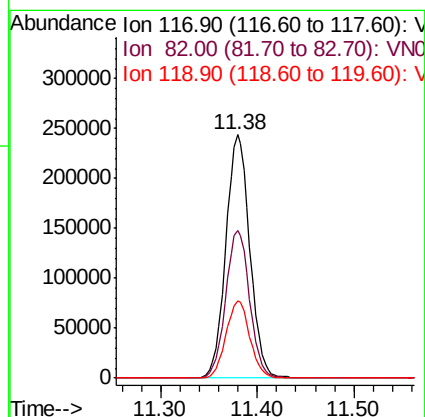
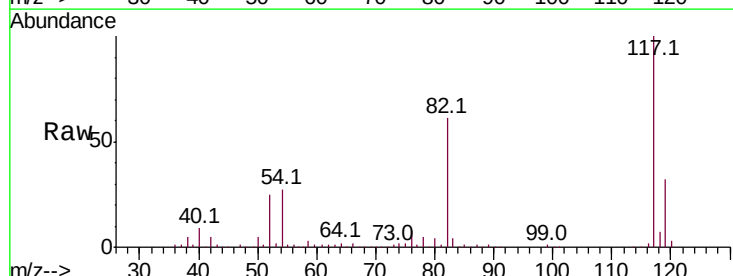
Instrument :
MSVOA_N
ClientSampleId :
CG-SOIL

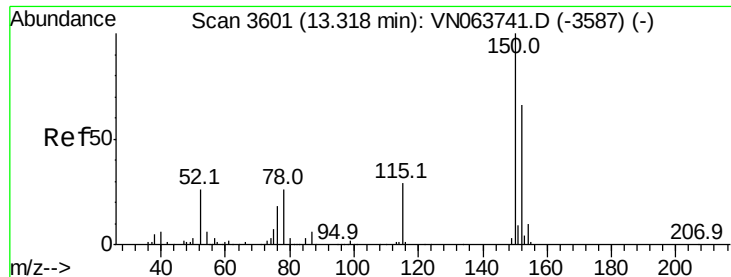
Tot Ion: 95 Resp: 204701
Ion Ratio Lower Upper
95 100
174 74.7 0.0 150.6
176 72.5 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063798.D
Acq: 2 Oct 2020 2:55

Tgt Ion: 117 Resp: 418432
Ion Ratio Lower Upper
117 100
82 60.7 47.4 71.2
119 31.8 26.4 39.6

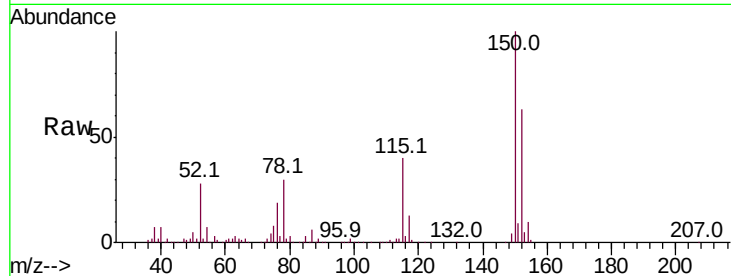




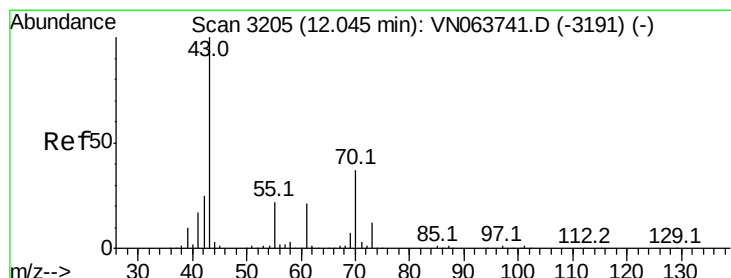
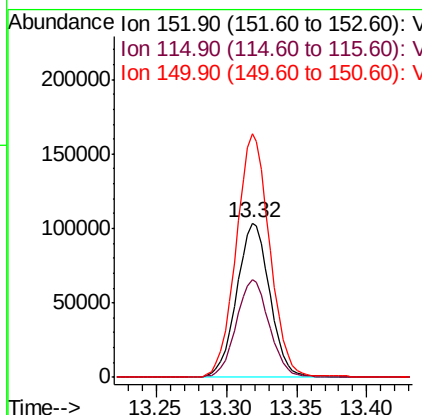
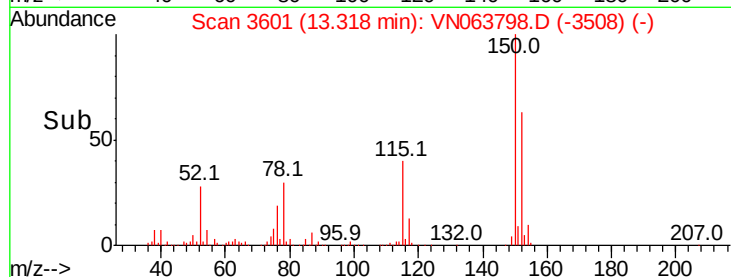
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3601
 Delta R.T. 0.00 min
 Lab File: VN063798.D
 Acq: 2 Oct 2020 2:55

Instrument :
 MSVOA_N
 ClientSampled :
 CG-SOIL

Tot Ion:152 Resp: 170839
 Ion Ratio Lower Upper
 152 100
 115 63.3 31.3 93.8
 150 159.9 0.0 341.8

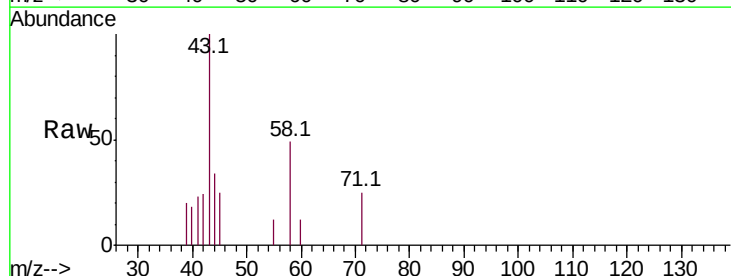


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

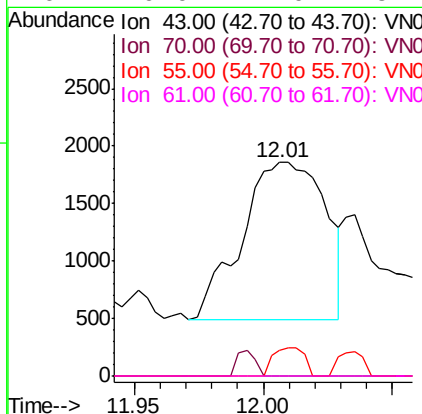
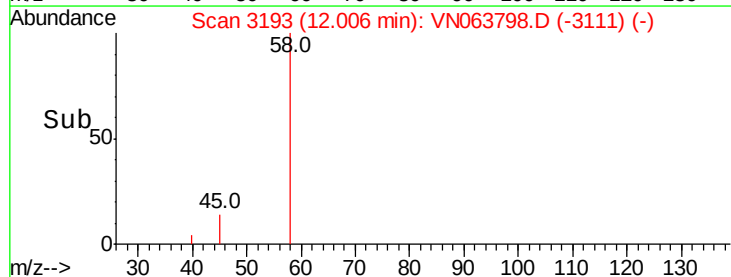


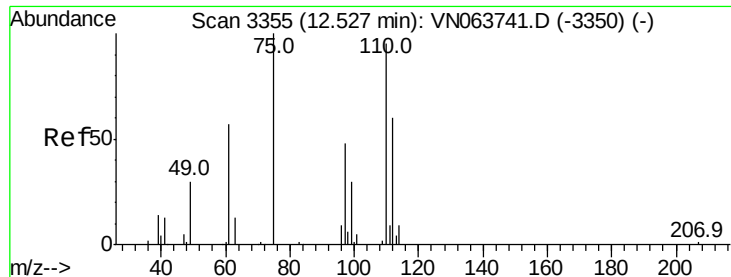
#74
 N-ethyl acetate
 Concen: 2.723 ug/l
 RT: 12.01 min Scan# 3193
 Delta R.T. -0.04 min
 Lab File: VN063798.D
 Acq: 2 Oct 2020 2:55

Tgt Ion: 43 Resp: 3073
 Ion Ratio Lower Upper
 43 100
 70 3.6 29.8 44.8#
 55 6.8 17.9 26.9#
 61 0.0 17.0 25.4#



Abundance Ion 43.00 (42.70 to 43.70): V
 Ion 70.00 (69.70 to 70.70): V
 Ion 55.00 (54.70 to 55.70): V
 Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 31.432 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063798.D

Acq: 2 Oct 2020 2:55

Instrument :

MSVOA_N

ClientSampleId :

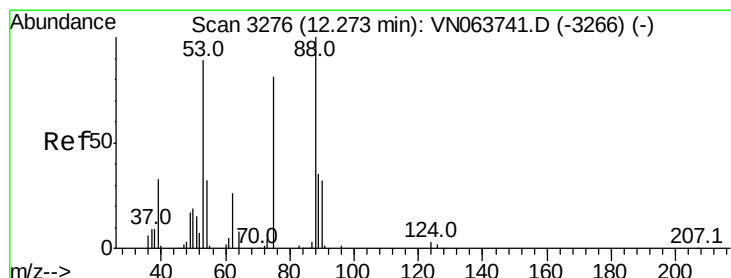
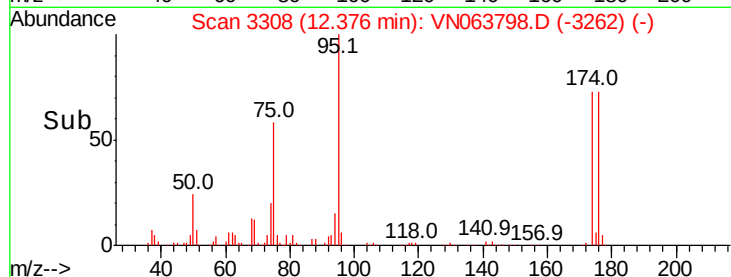
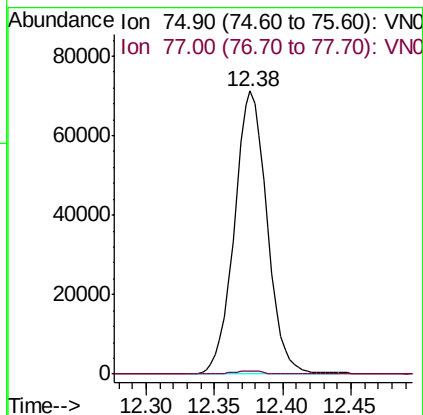
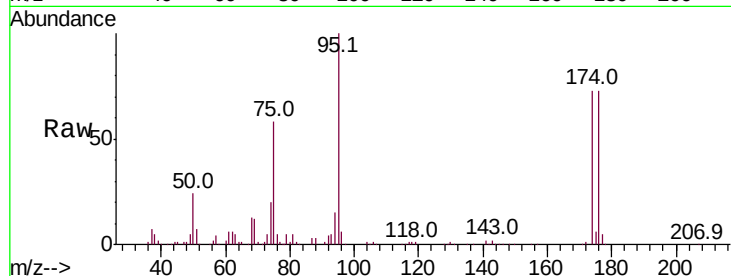
CG-SOIL

Tot Ion: 75 Resp: 118371

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 90.528 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063798.D

Acq: 2 Oct 2020 2:55

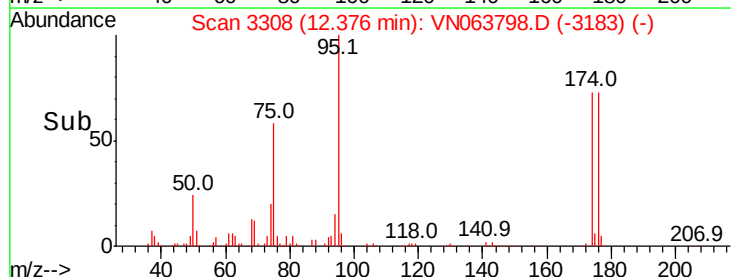
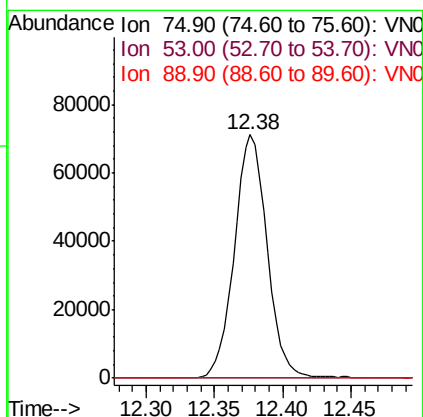
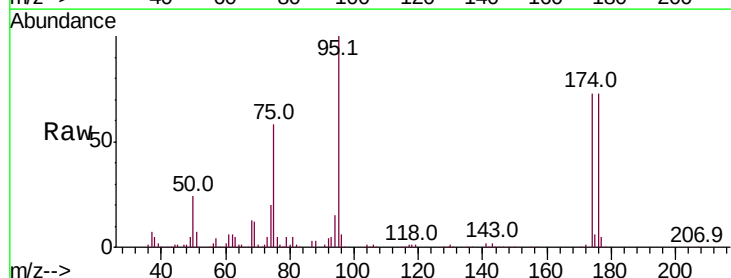
Tgt Ion: 75 Resp: 118371

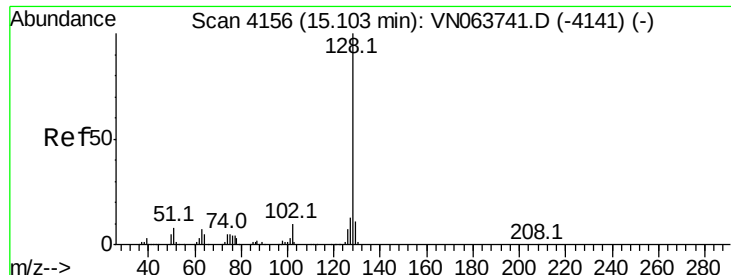
Ion Ratio Lower Upper

75 100

53 0.0 88.2 132.2#

89 0.0 36.0 54.0#





#95

Naphthalene

Concen: 1.949 ug/l

RT: 15.11 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN063798.D

Acq: 2 Oct 2020 2:55

Instrument :

MSVOA_N

ClientSampleId :

CG-SOIL

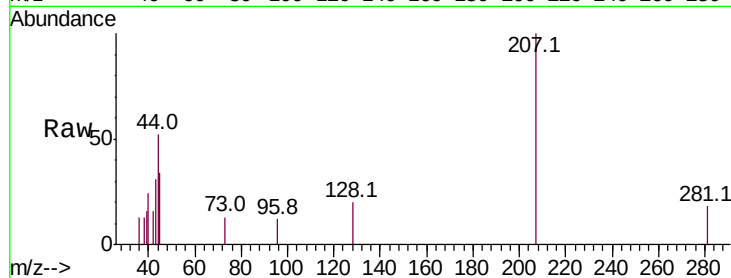
Tot Ion:128 Resp: 232

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

