

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031419\
 Data File : VN054288.D
 Acq On : 15 Mar 2019 4:06
 Operator : JC/SP
 Sample : K1895-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OILY-SOIL

Quant Time: Mar 15 07:01:58 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1302792	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2174724	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2312918	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	989052	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	708816	51.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.46%	
35) Dibromofluoromethane	7.59	113	665840	47.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.94%	
50) Toluene-d8	10.09	98	2707477	52.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.54%	
62) 4-Bromofluorobenzene	12.40	95	1030272	56.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.68%	

Target Compounds

						Qvalue
10) Methyl Iodide	3.94	142	553	1.525	ug/l	96
11) Tert butyl alcohol	4.82	59	389	0.410	ug/l #	70
13) Acrolein	3.62	56	237	0.264	ug/l #	60
14) Allyl chloride	4.54	41	18975	1.093	ug/l #	22
16) Acetone	3.82	43	141951	35.833	ug/l	99
18) Methyl Acetate	4.33	43	7870	0.982	ug/l #	78
20) Methylene Chloride	4.55	84	559996	43.051	ug/l	98
25) 2-Butanone	6.86	43	6013	1.293	ug/l #	89
29) Tetrahydrofuran	7.24	42	1172	0.392	ug/l #	62
30) Chloroform	7.38	83	12706	0.547	ug/l	90
31) Cyclohexane	7.66	56	34313	0.432	ug/l #	36
36) 1,1-Dichloropropene	7.67	75	74508	3.720	ug/l #	49
38) Carbon Tetrachloride	7.66	117	105432	5.020	ug/l #	16
39) Methylcyclohexane	9.08	83	25072	1.017	ug/l	98
43) Isopropyl Acetate	8.17	43	44965	2.226	ug/l	97
47) Bromodichloromethane	9.40	83	4023	0.209	ug/l	87
48) Methyl methacrylate	9.18	41	17858	1.742	ug/l #	11
49) 1,4-Dioxane	9.27	88	374	2.579	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	12315	1.152	ug/l	93
52) Toluene	10.16	92	117794	3.242	ug/l	100
53) t-1,3-Dichloropropene	10.28	75	174	1.994	ug/l #	1
54) cis-1,3-Dichloropropene	9.90	75	134916	6.006	ug/l #	63
57) 1,3-Dichloropropane	10.77	76	26180	1.207	ug/l #	43
58) 2-Chloroethyl Vinyl ether	9.62	63	291	16.868	ug/l #	44
59) 2-Hexanone	10.77	43	343745	48.329	ug/l #	50
64) Tetrachloroethene	10.63	164	16608	0.743	ug/l	96
67) Ethyl Benzene	11.51	91	156641	1.861	ug/l	99
68) m/p-Xylenes	11.62	106	172360	5.238	ug/l	98
69) o-Xylene	11.95	106	62247	1.941	ug/l	97
71) Bromoform	12.40	173	7090	2.831	ug/l #	1
73) Isopropylbenzene	12.25	105	25679	0.325	ug/l	100
74) N-amyl acetate	11.88	43	35581	2.026	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	494853	34.023	ug/l #	100
78) n-propylbenzene	12.59	91	80784	0.941	ug/l	100

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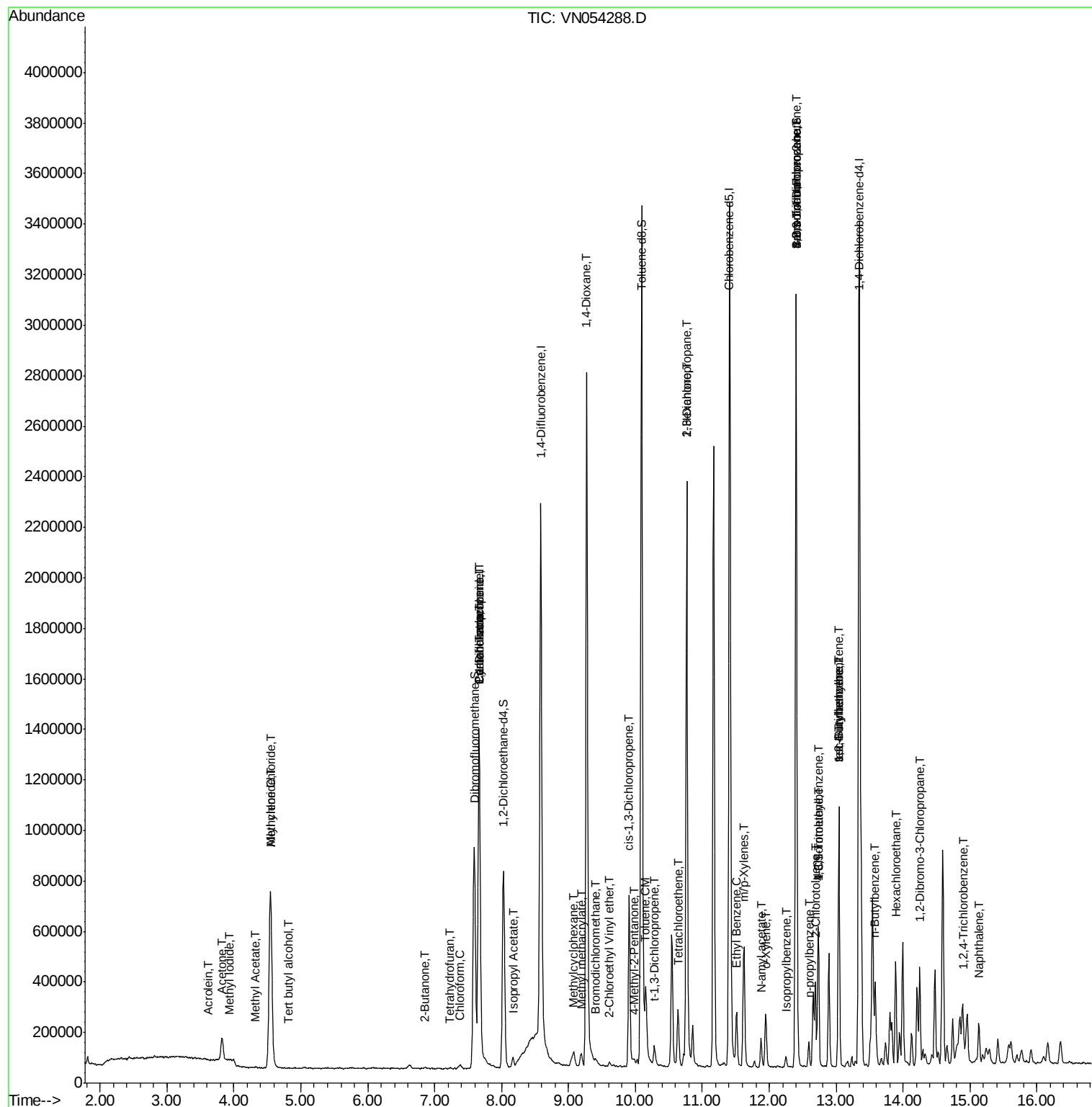
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) 2-Chlorotoluene	12.69	91	23011	0.446	ug/l #	39
80) 1,3,5-Trimethylbenzene	12.73	105	322359	4.898	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	494853	116.307	ug/l #	11
82) 4-Chlorotoluene	12.73	91	33194	0.644	ug/l #	39
83) tert-Butylbenzene	13.04	119	76413	1.261	ug/l #	70
84) 1,2,4-Trimethylbenzene	13.04	105	599678	9.287	ug/l	100
85) sec-Butylbenzene	13.04	105	599678	7.633	ug/l #	55
89) n-Butylbenzene	13.58	91	14384	0.275	ug/l #	1
90) Hexachloroethane	13.89	117	22572	1.978	ug/l #	2
92) 1,2-Dibromo-3-Chloropropan	14.25	75	1353	0.519	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.91	180	989	2.562	ug/l #	83
95) Naphthalene	15.13	128	142443	6.525	ug/l	98

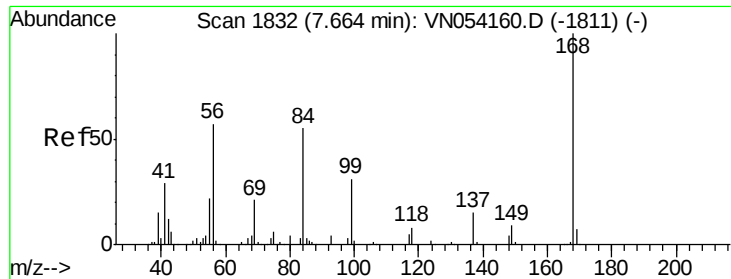
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampleId :

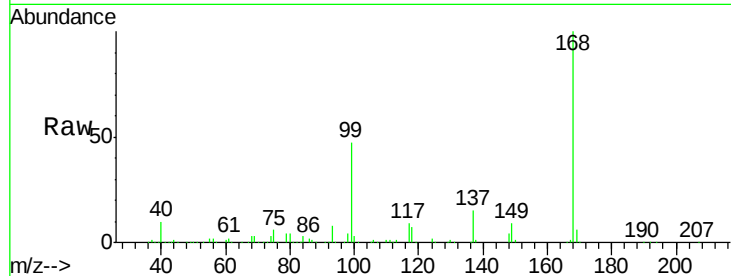
OILY-SOIL

Tot Ion:168 Resp: 1302792

Ion Ratio Lower Upper

168 100

99 46.7 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

600000

500000

400000

300000

200000

100000

0

7.67

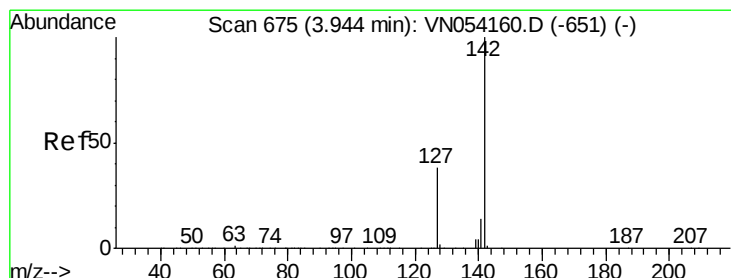
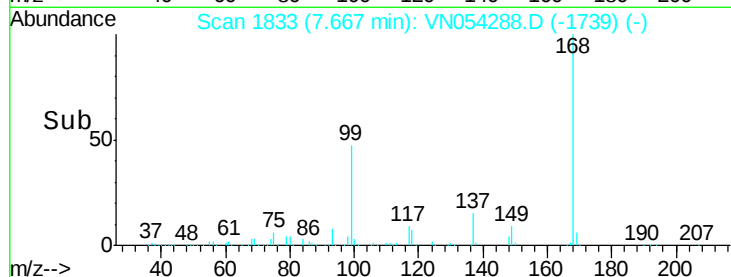
7.60

7.70

7.80

7.90

Time-->



#10

Methyl Iodide

Concen: 1.525 ug/l

RT: 3.94 min Scan# 673

Delta R.T. -0.01 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

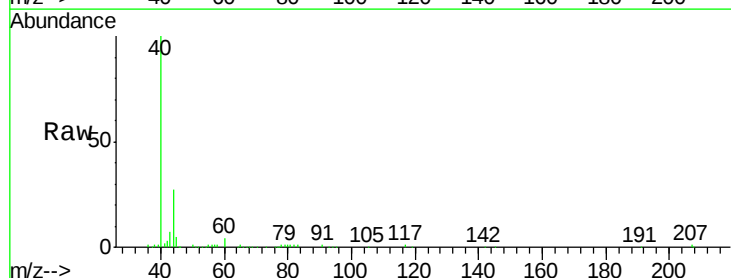
Tgt Ion:142 Resp: 553

Ion Ratio Lower Upper

142 100

127 40.1 30.3 45.5

141 11.6 11.2 16.8



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

300

200

100

0

3.94

3.90

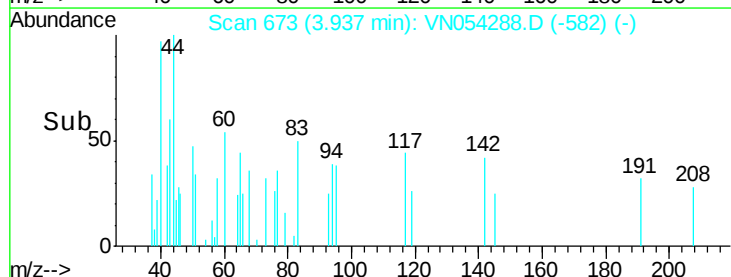
3.92

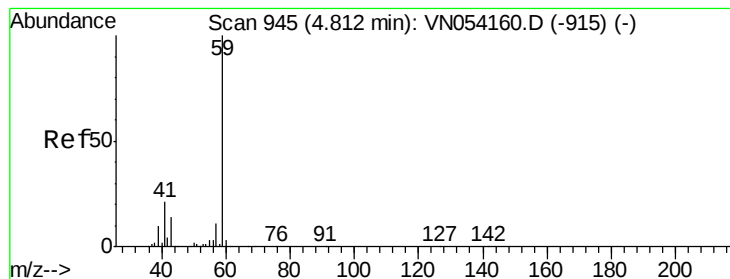
3.94

3.96

3.98

Time-->





#11

Tert butyl alcohol

Concen: 0.410 ug/l

RT: 4.82 min Scan# 948

Delta R.T. 0.01 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampled :

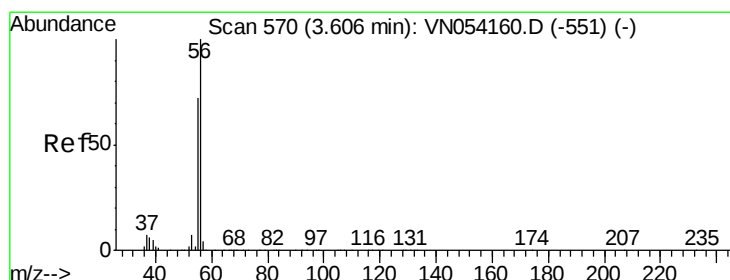
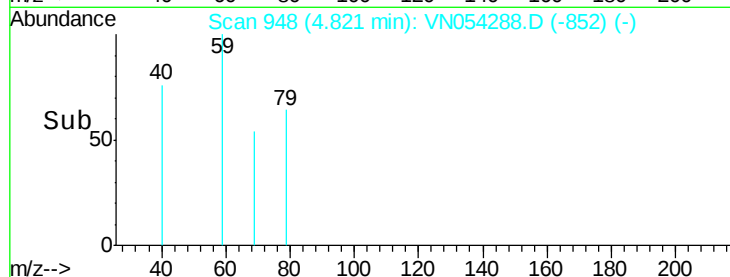
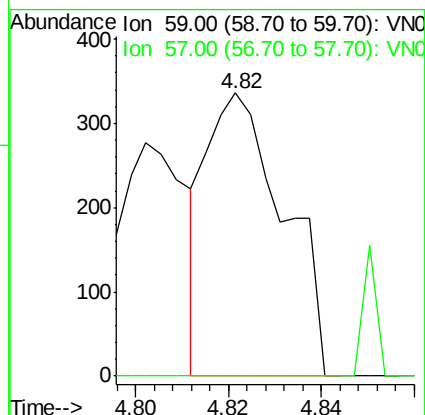
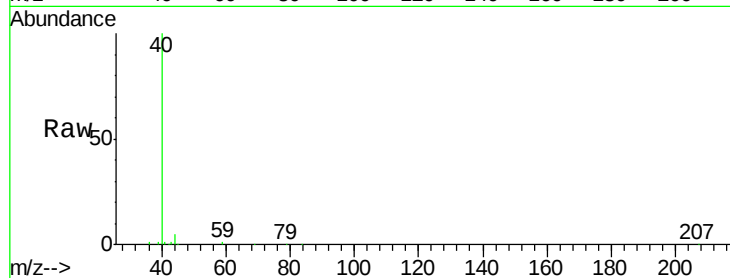
OILY-SOIL

Tot Ion: 59 Resp: 389

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.6#



#13

Acrolein

Concen: 0.264 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN054288.D

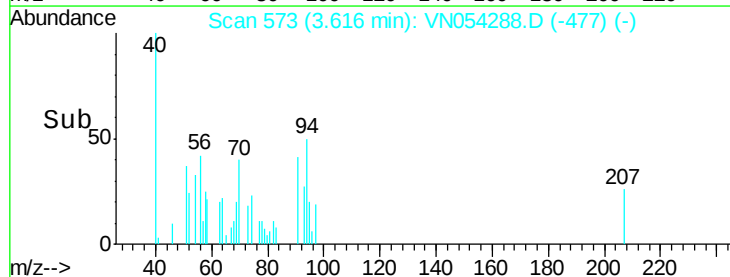
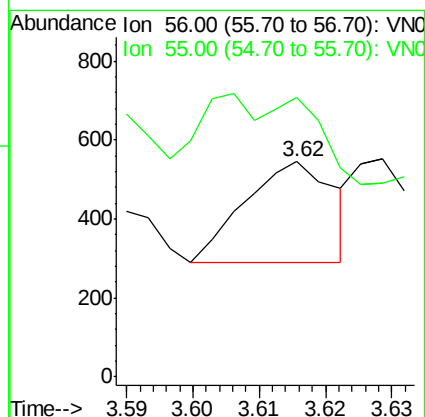
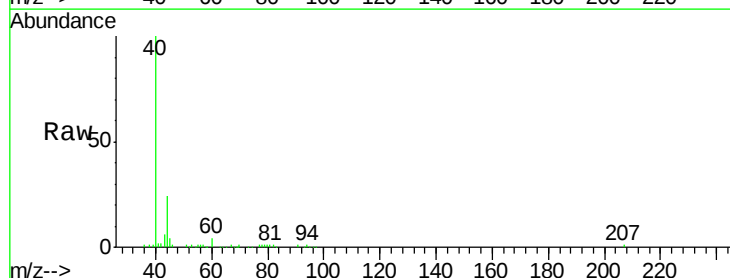
Acq: 15 Mar 2019 4:06

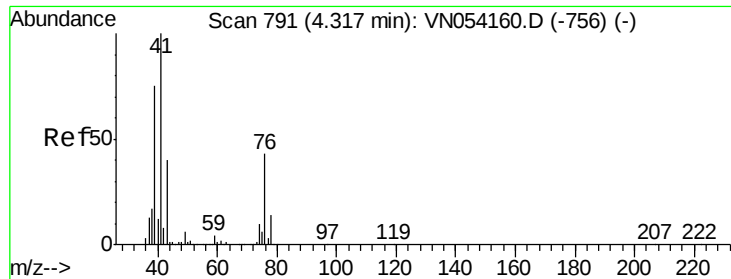
Tgt Ion: 56 Resp: 237

Ion Ratio Lower Upper

56 100

55 38.0 56.7 85.1#

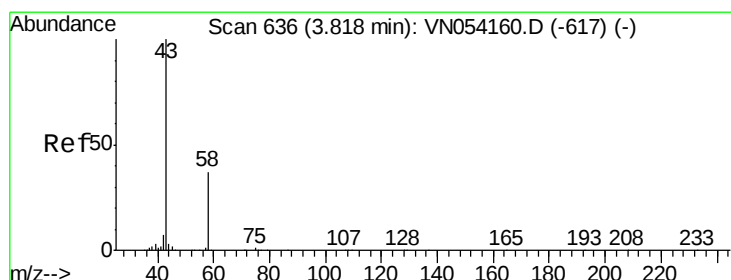
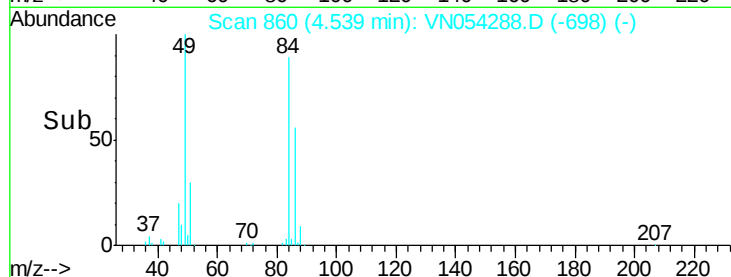
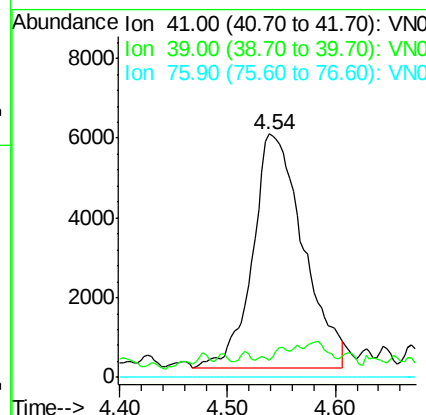
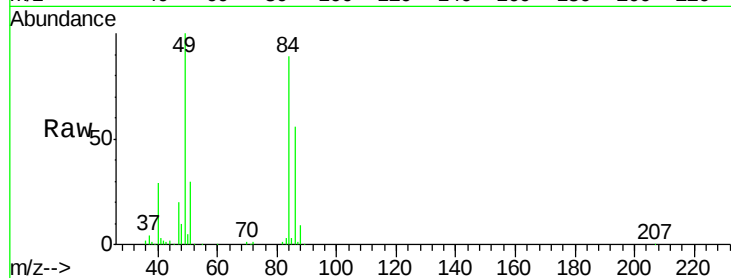




#14
Allvl chloride
Concen: 1.093 ug/l
RT: 4.54 min Scan# 860
Delta R.T. 0.22 min
Lab File: VN054288.D
Acq: 15 Mar 2019 4:06

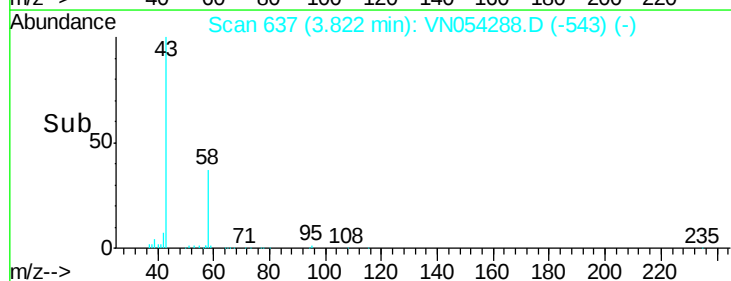
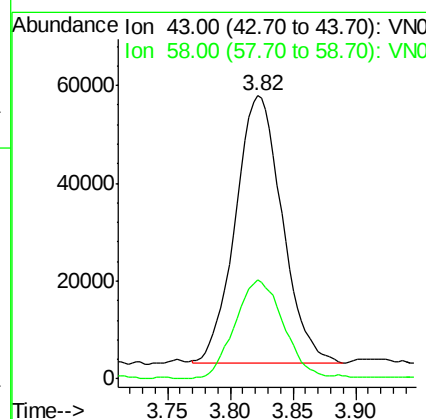
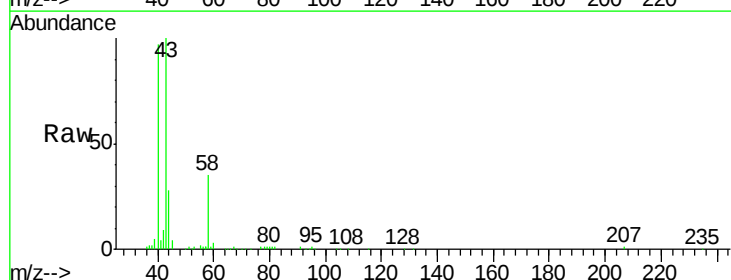
Instrument :
MSVOA_N
ClientSampled :
OILY-SOIL

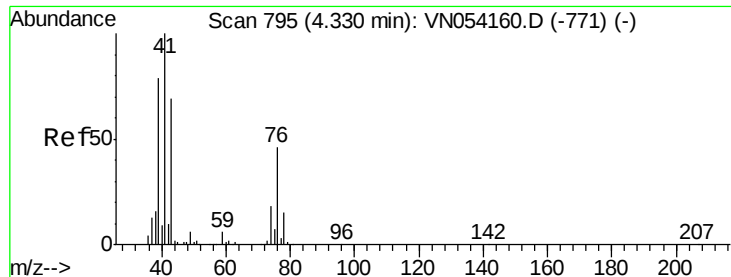
Tot Ion: 41 Resp: 18975
Ion Ratio Lower Upper
41 100
39 1.4 58.2 87.4#
76 0.0 31.7 47.5#



#16
Acetone
Concen: 35.833 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN054288.D
Acq: 15 Mar 2019 4:06

Tgt Ion: 43 Resp: 141951
Ion Ratio Lower Upper
43 100
58 37.1 29.9 44.9

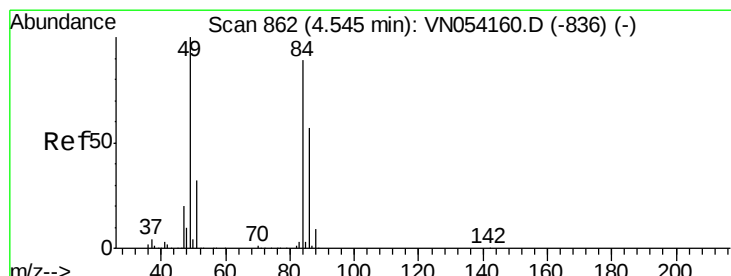
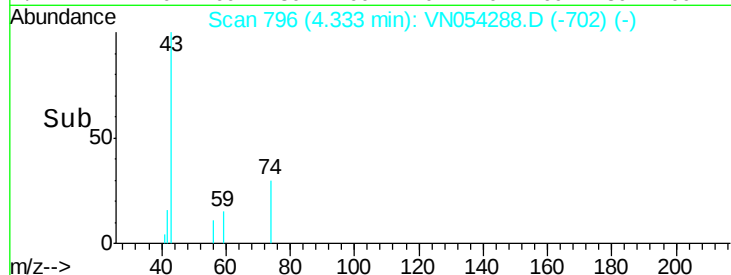
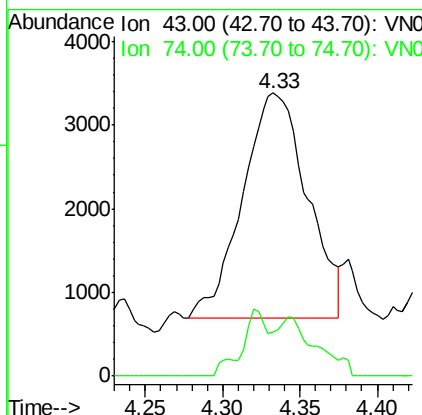
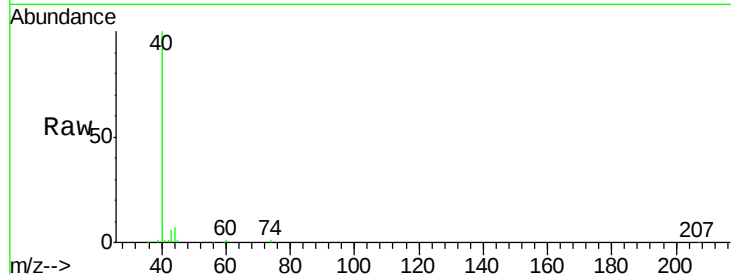




#18
Methyl Acetate
Concen: 0.982 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054288.D
Acq: 15 Mar 2019 4:06

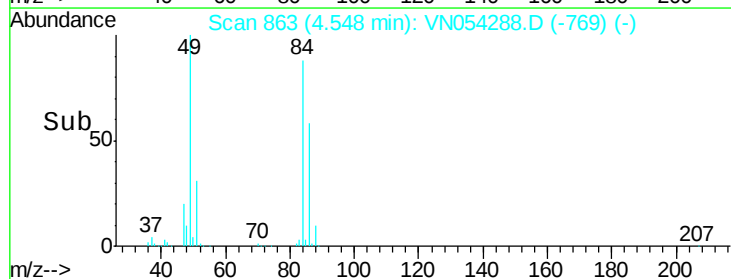
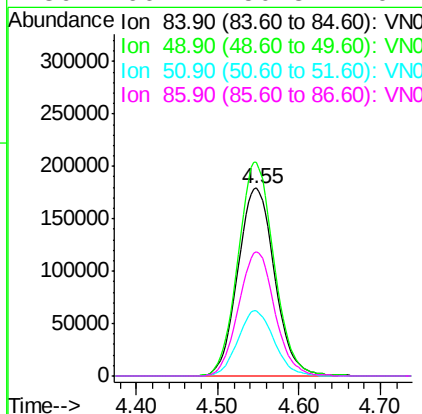
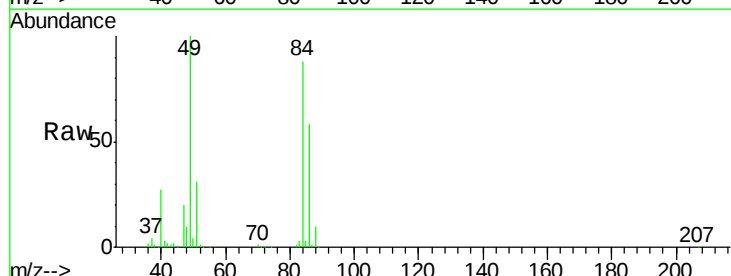
Instrument :
MSVOA_N
ClientSampled :
OILY-SOIL

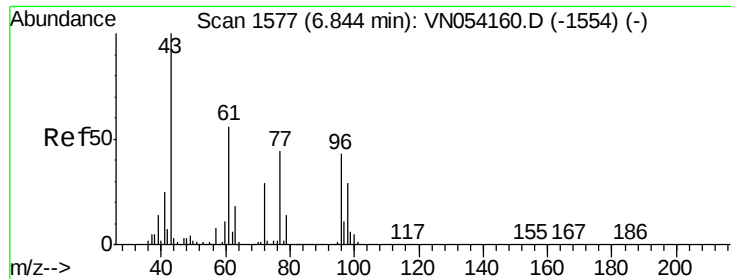
Tot Ion: 43 Resp: 7870
Ion Ratio Lower Upper
43 100
74 15.0 20.8 31.2#



#20
Methylene Chloride
Concen: 43.051 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054288.D
Acq: 15 Mar 2019 4:06

Tgt Ion: 84 Resp: 559996
Ion Ratio Lower Upper
84 100
49 113.5 89.7 134.5
51 34.6 28.2 42.4
86 66.2 50.8 76.2

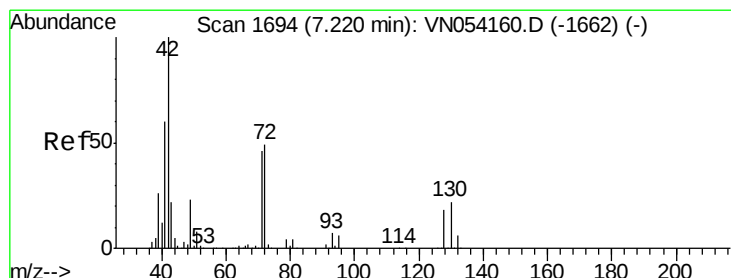
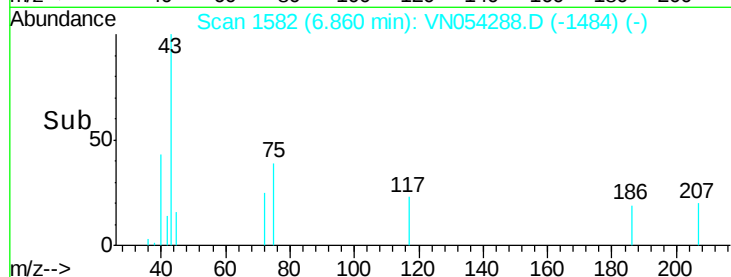
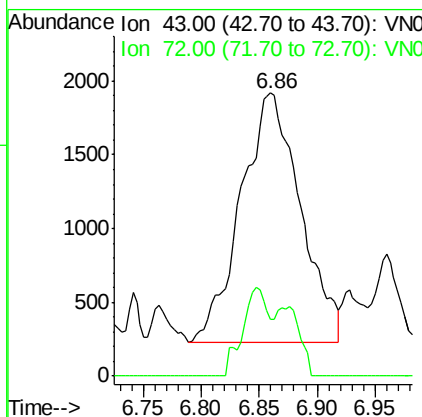
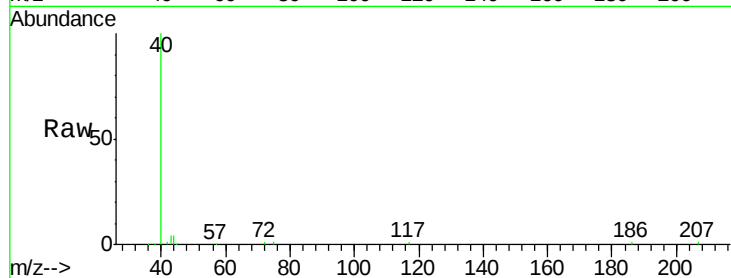




#25
2-Butanone
Concen: 1.293 ug/l
RT: 6.86 min Scan# 1582
Delta R.T. 0.02 min
Lab File: VN054288.D
Acq: 15 Mar 2019 4:06

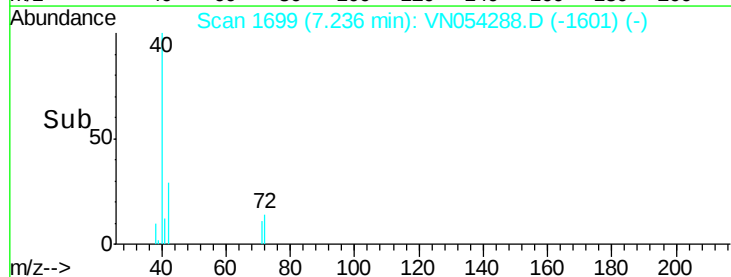
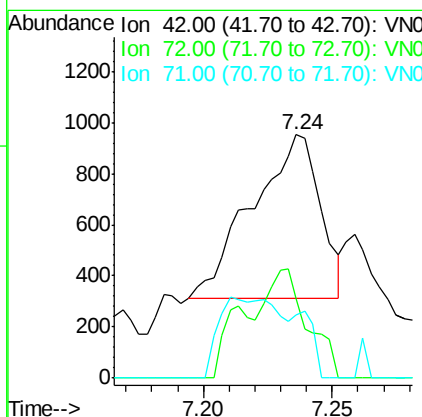
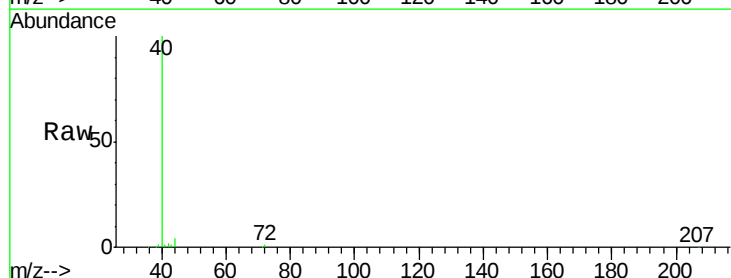
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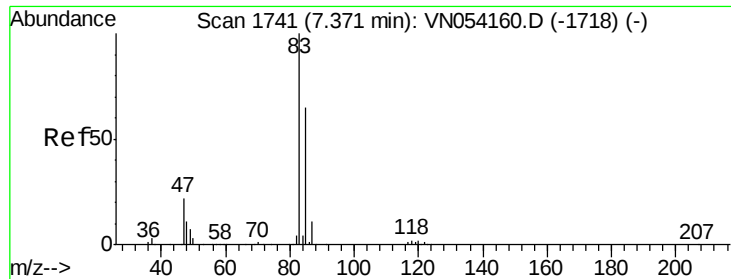
Tot Ion: 43 Resp: 6013
Ion Ratio Lower Upper
43 100
72 22.9 23.0 34.6#



#29
Tetrahydrofuran
Concen: 0.392 ug/l
RT: 7.24 min Scan# 1699
Delta R.T. 0.02 min
Lab File: VN054288.D
Acq: 15 Mar 2019 4:06

Tgt Ion: 42 Resp: 1172
Ion Ratio Lower Upper
42 100
72 41.1 37.8 56.6
71 0.0 36.2 54.2#

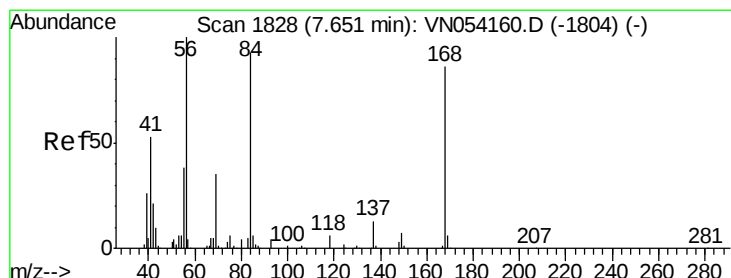
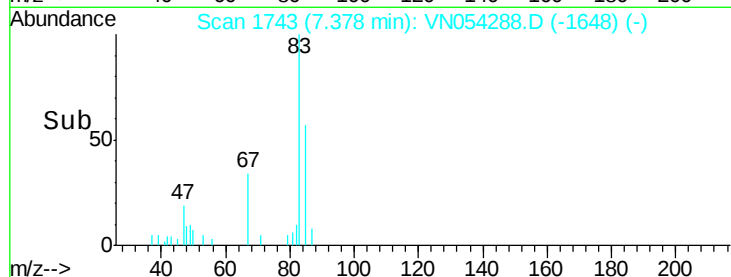
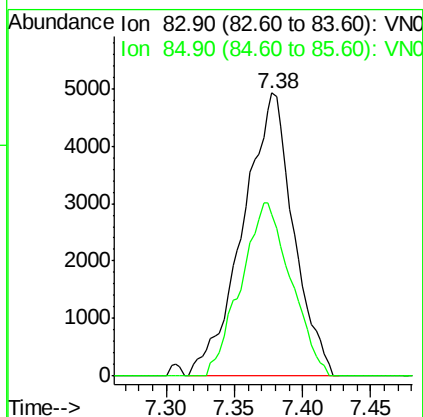
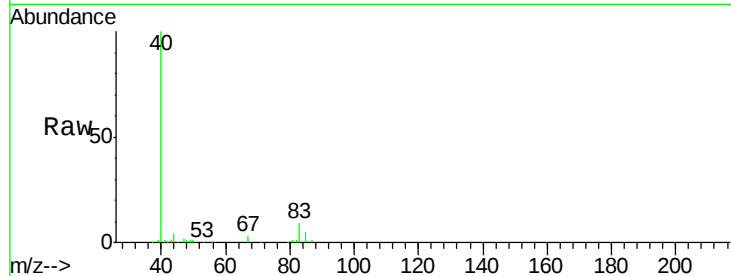




#30
Chloroform
Concen: 0.547 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.01 min
Lab File: VN054288.D
Acq: 15 Mar 2019 4:06

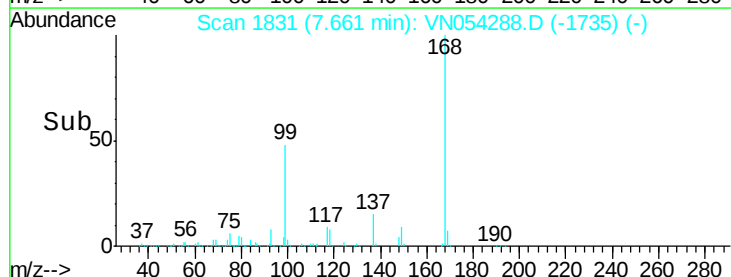
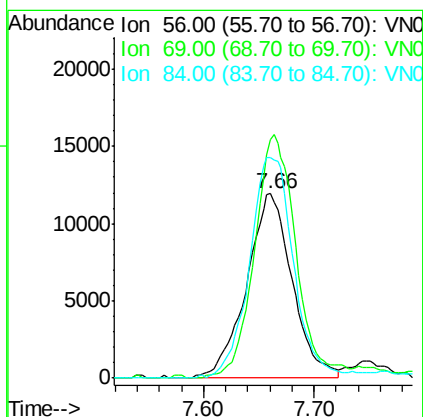
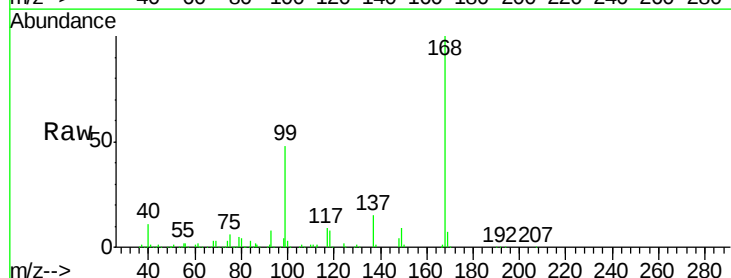
Instrument :
MSVOA_N
ClientSampled :
OILY-SOIL

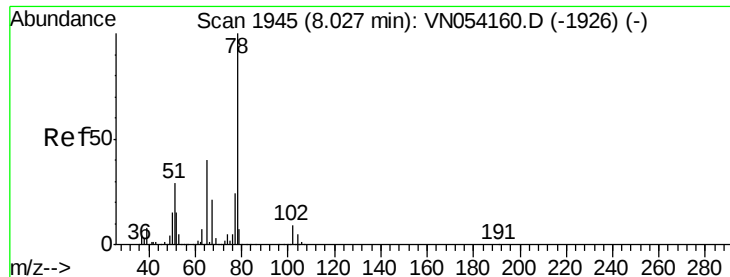
Tot Ion: 83 Resp: 12706
Ion Ratio Lower Upper
83 100
85 57.2 52.2 78.4



#31
Cyclohexane
Concen: 0.432 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN054288.D
Acq: 15 Mar 2019 4:06

Tgt Ion: 56 Resp: 34313
Ion Ratio Lower Upper
56 100
69 129.1 27.8 41.6#
84 119.5 74.6 111.8#





#33

1,2-Dichloroethane-d4

Concen: 51.231 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampleId :

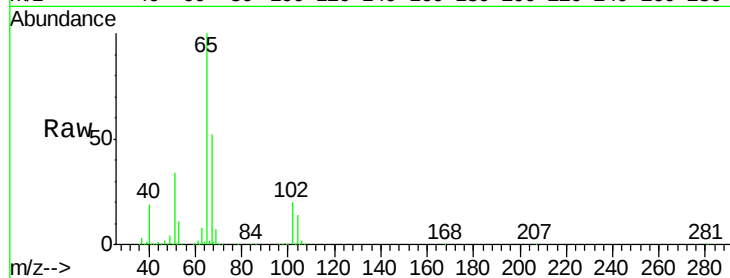
OILY-SOIL

Tot Ion: 65 Resp: 708816

Ion Ratio Lower Upper

65 100

67 51.2 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN054288.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN054288.D (-1852) (-)

8.03

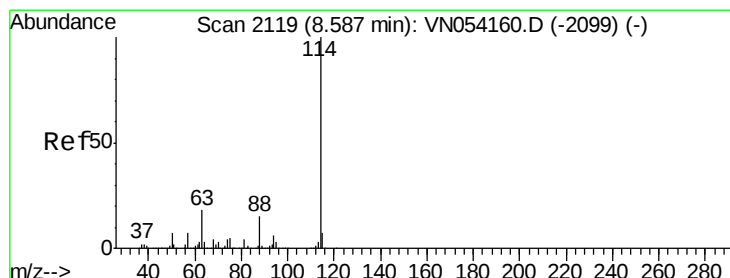
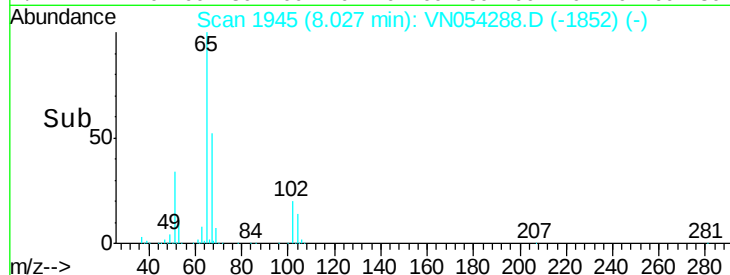
300000

200000

100000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

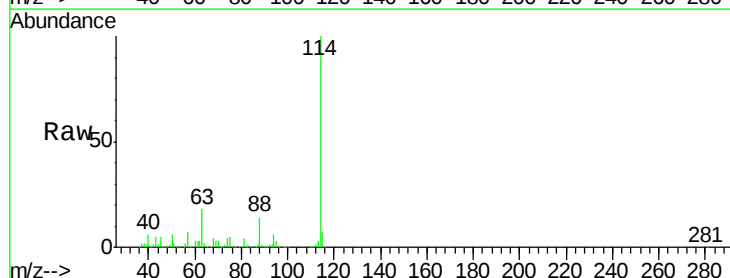
Tgt Ion: 114 Resp: 2174724

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.2

88 14.5 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): VN054288.D (-2026) (-)

Ion 63.00 (62.70 to 63.70): VN054288.D (-2026) (-)

Ion 87.90 (87.60 to 88.60): VN054288.D (-2026) (-)

8.59

1200000

1000000

800000

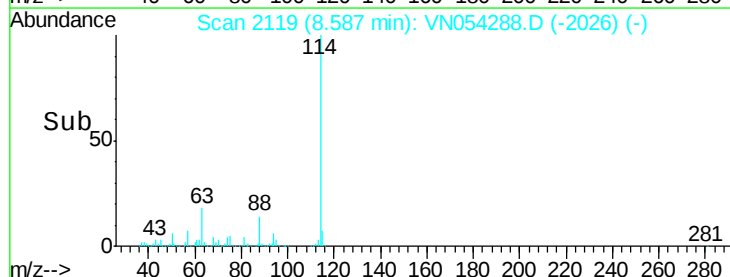
600000

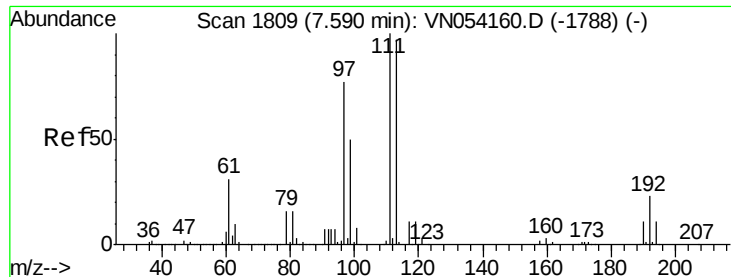
400000

200000

0

Time-->

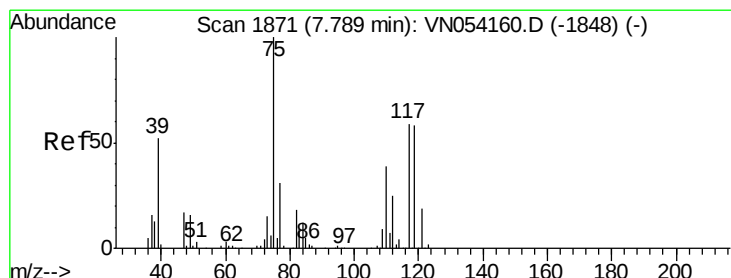
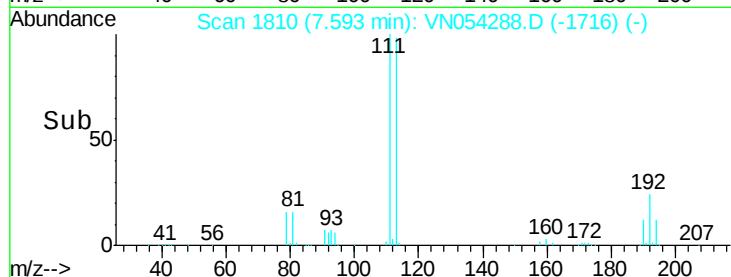
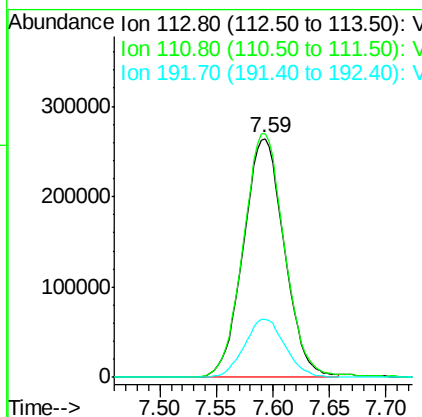
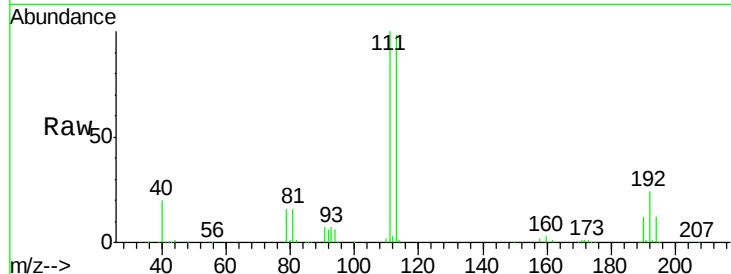




#35
 Dibromofluoromethane
 Concen: 47.472 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054288.D
 Acq: 15 Mar 2019 4:06

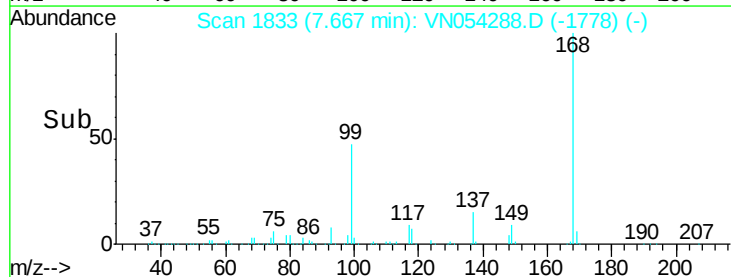
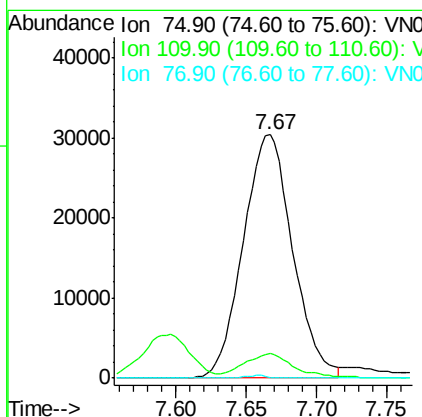
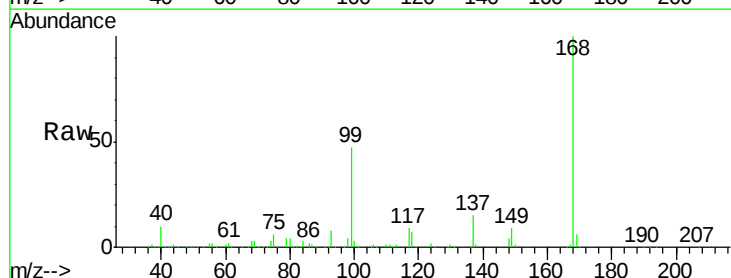
Instrument :
 MSVOA_N
 ClientSampled :
 OILY-SOIL

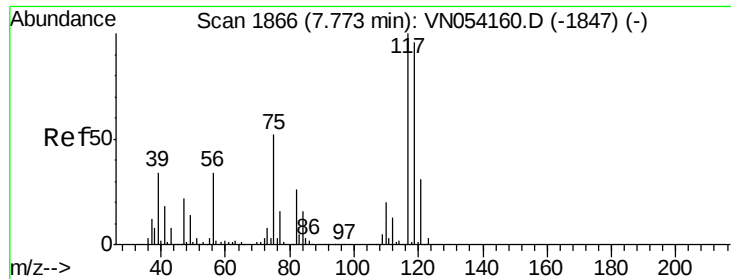
Tot Ion:113 Resp: 665840
 Ion Ratio Lower Upper
 113 100
 111 103.3 82.2 123.4
 192 24.4 19.2 28.8



#36
 1,1-Dichloropropene
 Concen: 3.720 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054288.D
 Acq: 15 Mar 2019 4:06

Tgt Ion: 75 Resp: 74508
 Ion Ratio Lower Upper
 75 100
 110 10.2 19.1 57.5#
 77 0.4 25.0 37.4#

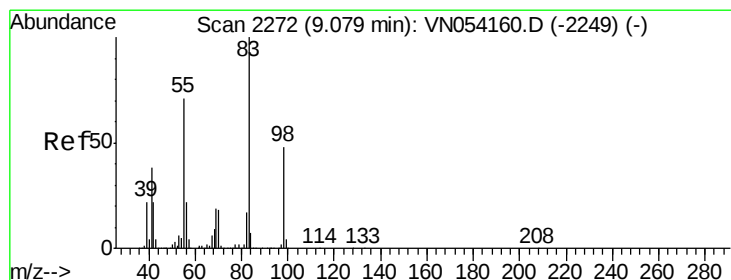
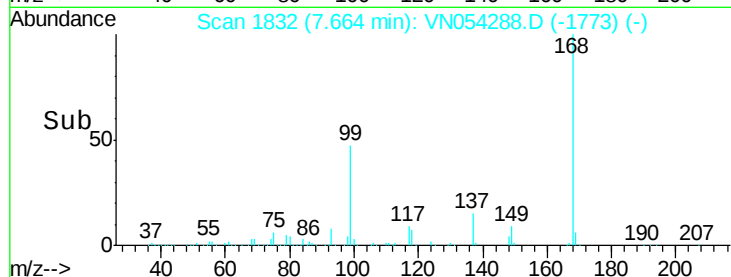
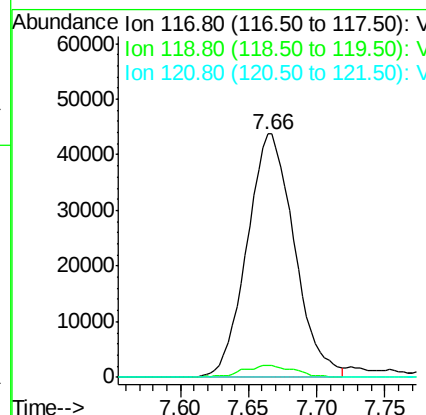
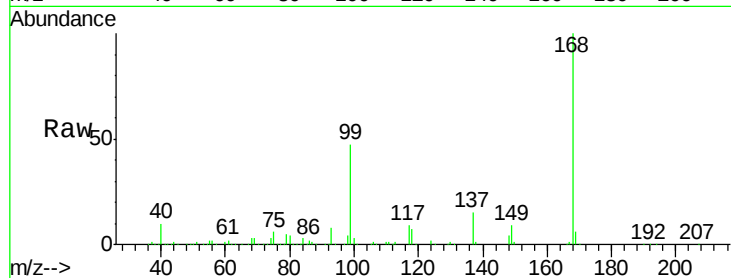




#38
Carbon Tetrachloride
Concen: 5.020 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN054288.D
Acq: 15 Mar 2019 4:06

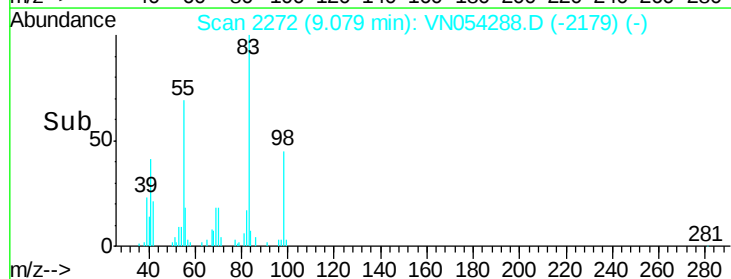
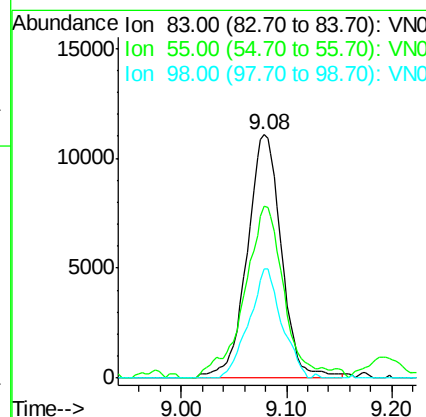
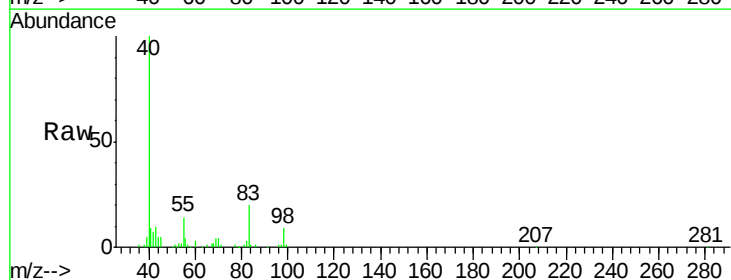
Instrument :
MSVOA_N
ClientSampleId :
OILY-SOIL

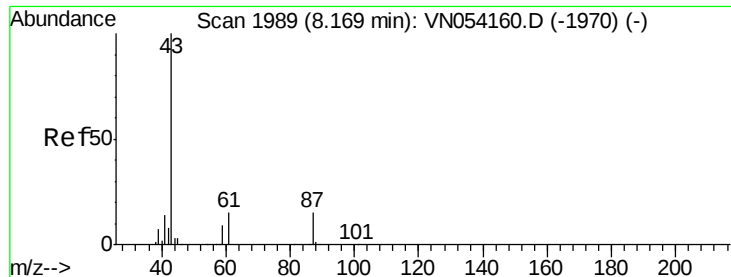
Tot Ion	Ratio	Lower	Upper
117	100		
119	5.1	76.3	114.5#
121	0.0	24.6	36.8#



#39
Methylcyclohexane
Concen: 1.017 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054288.D
Acq: 15 Mar 2019 4:06

Tgt Ion	Ratio	Lower	Upper
83	100		
55	70.8	56.6	84.8
98	45.0	38.4	57.6





#43

Isopropyl Acetate

Concen: 2.226 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampled :

OILY-SOIL

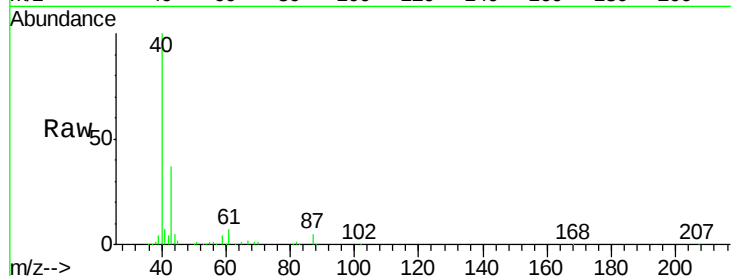
Tot Ion: 43 Resp: 44965

Ion Ratio Lower Upper

43 100

61 19.1 15.8 23.8

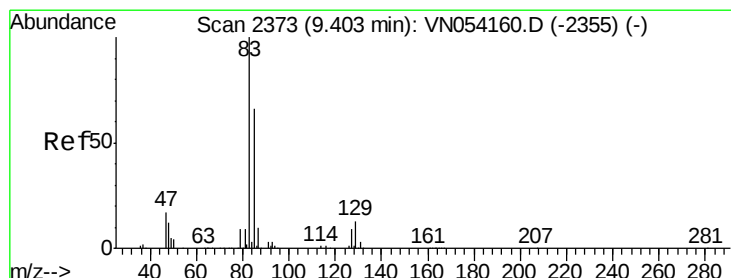
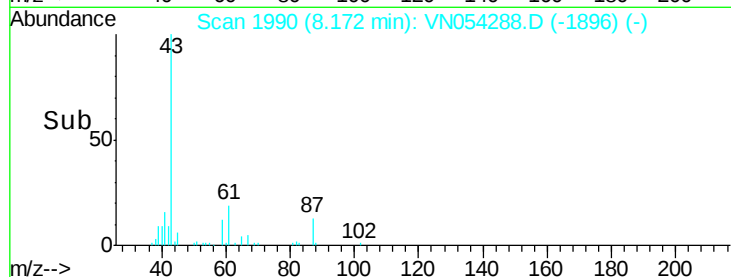
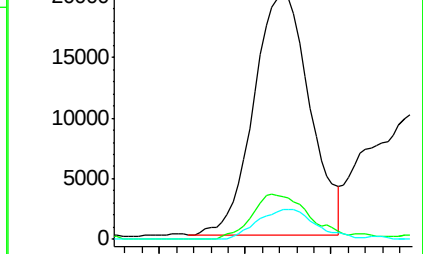
87 12.8 12.0 18.0



Abundance Ion 43.00 (42.70 to 43.70): VN054288.D (-1896) (-)

Ion 61.00 (60.70 to 61.70): VN054288.D (-1896) (-)

Ion 87.00 (86.70 to 87.70): VN054288.D (-1896) (-)



#47

Bromodichloromethane

Concen: 0.209 ug/l

RT: 9.40 min Scan# 2372

Delta R.T. -0.00 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

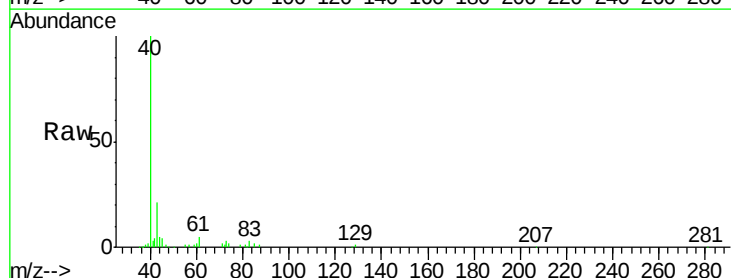
Tgt Ion: 83 Resp: 4023

Ion Ratio Lower Upper

83 100

85 54.6 52.8 79.2

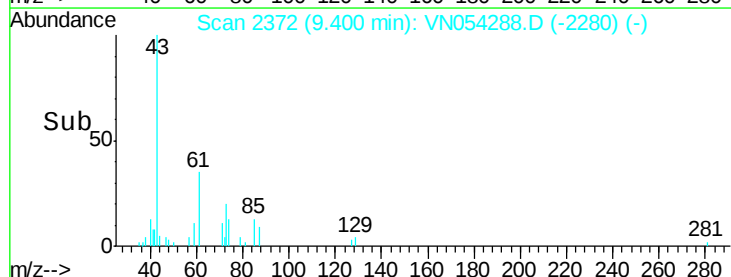
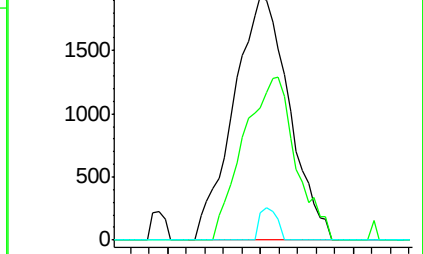
127 10.9 7.4 11.2

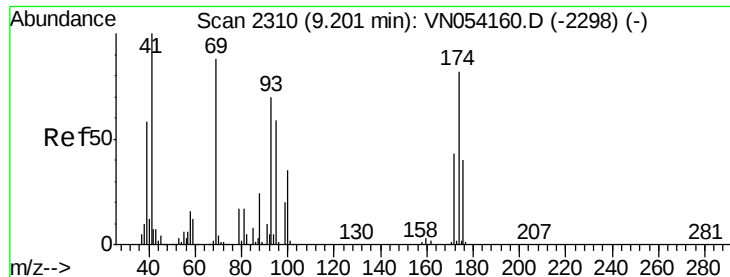


Abundance Ion 82.90 (82.60 to 83.60): VN054288.D (-2280) (-)

Ion 84.90 (84.60 to 85.60): VN054288.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN054288.D (-2280) (-)

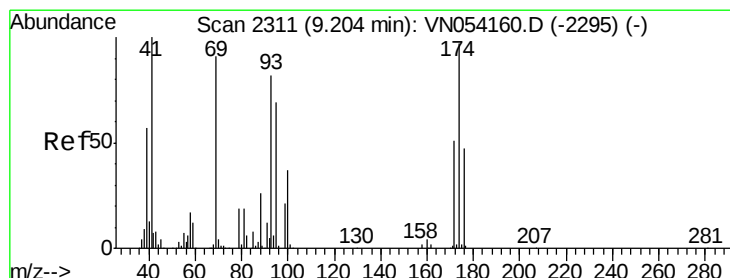
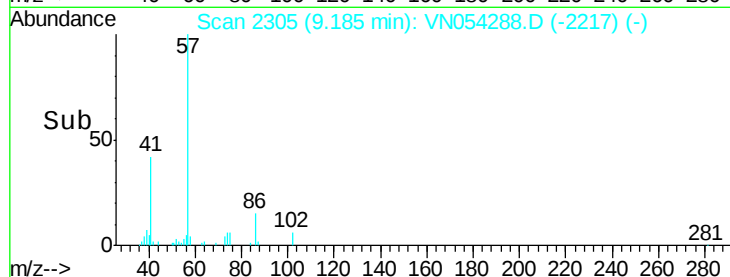
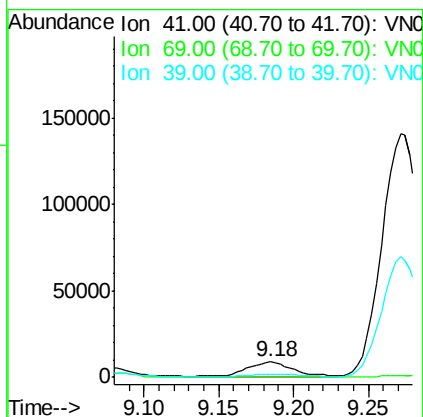
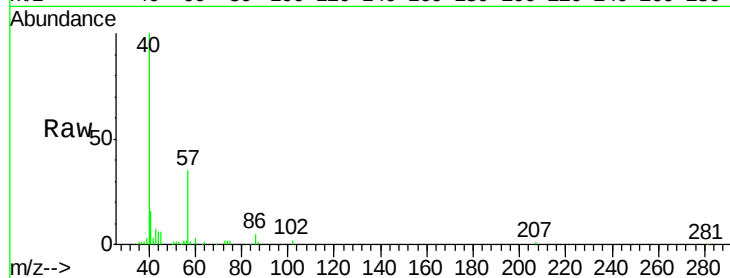




#48
Methyl methacrylate
Concen: 1.742 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN054288.D
Acq: 15 Mar 2019 4:06

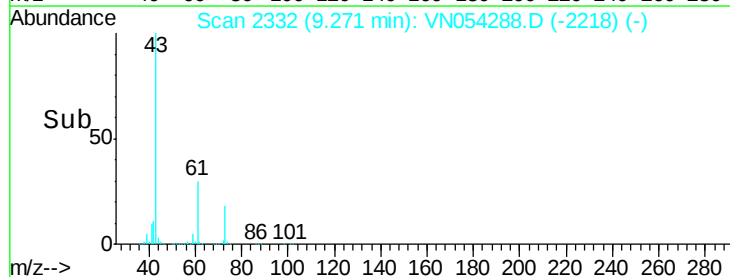
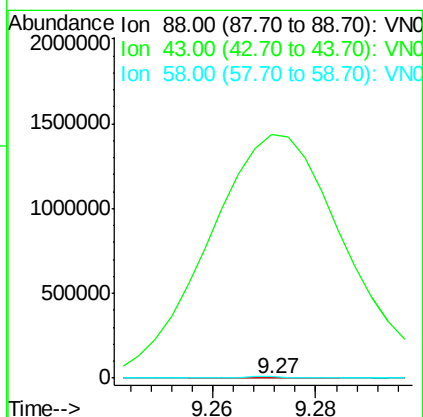
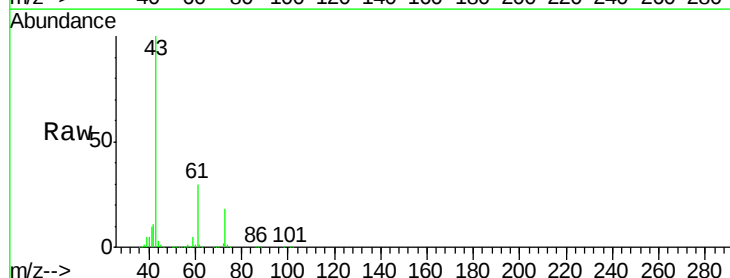
Instrument :
MSVOA_N
ClientSampleId :
OILY-SOIL

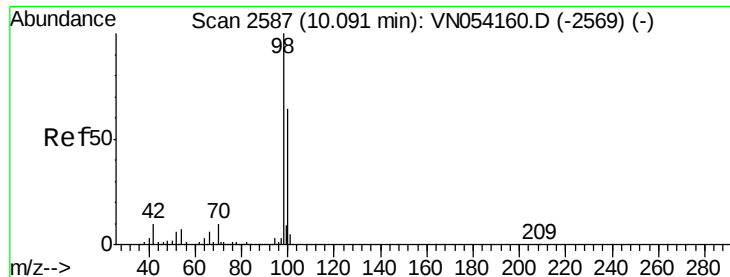
Tot Ion: 41 Resp: 17858
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#



#49
1,4-Dioxane
Concen: 2.579 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN054288.D
Acq: 15 Mar 2019 4:06

Tgt Ion: 88 Resp: 374
Ion Ratio Lower Upper
88 100
43 757888.8 24.1 36.1#
58 3501.9 50.8 76.2#





#50

Toluene-d8

Concen: 52.268 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampled :

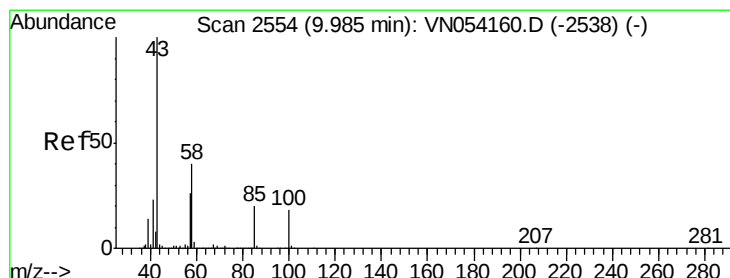
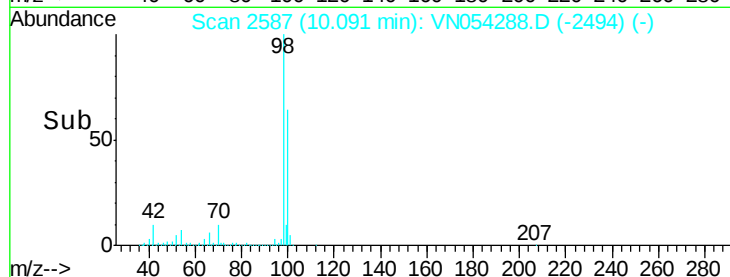
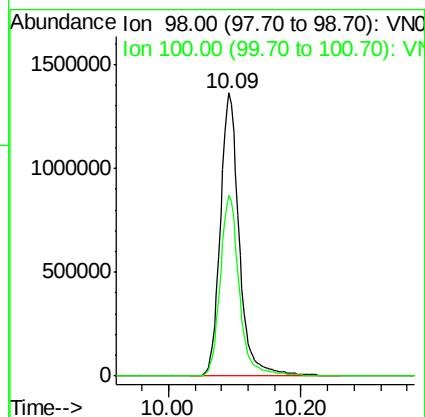
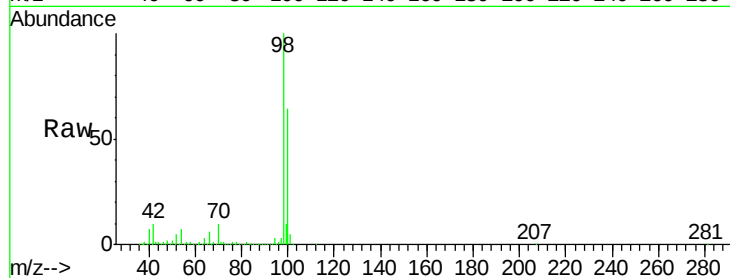
OILY-SOIL

Tot Ion: 98 Resp: 2707477

Ion Ratio Lower Upper

98 100

100 64.2 51.2 76.8



#51

4-Methyl-2-Pentanone

Concen: 1.152 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054288.D

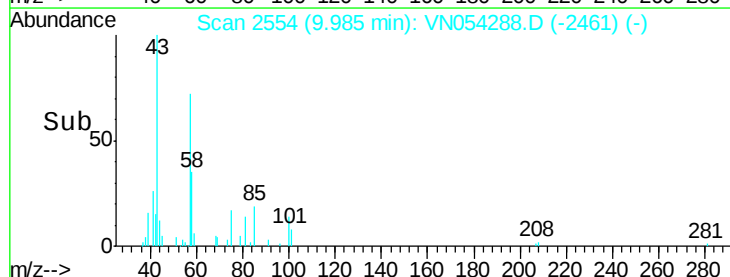
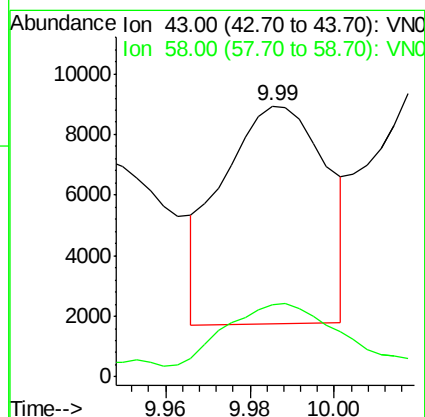
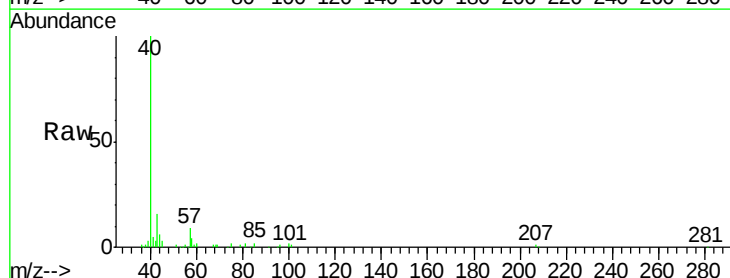
Acq: 15 Mar 2019 4:06

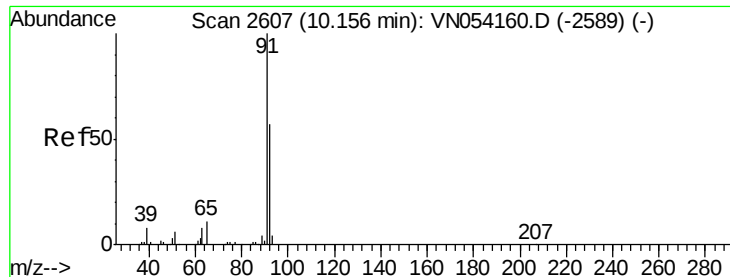
Tgt Ion: 43 Resp: 12315

Ion Ratio Lower Upper

43 100

58 44.1 31.8 47.6





#52

Toluene

Concen: 3.242 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampled :

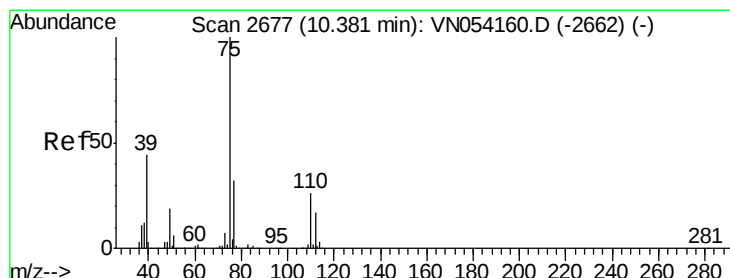
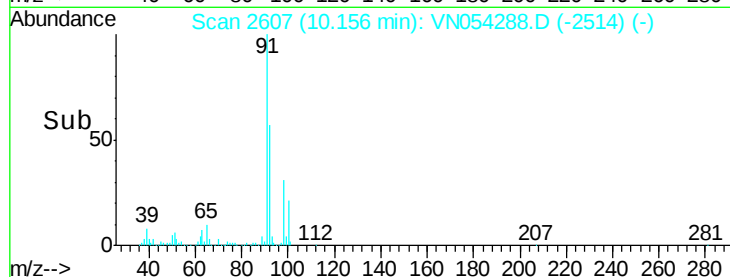
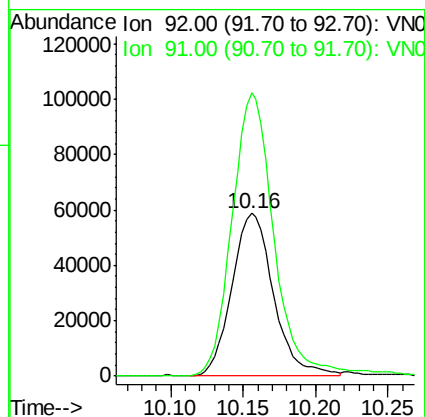
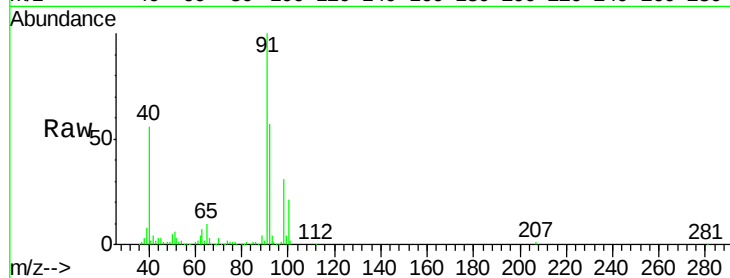
OILY-SOIL

Tot Ion: 92 Resp: 117794

Ion Ratio Lower Upper

92 100

91 176.6 140.7 211.1



#53

t-1,3-Dichloropropene

Concen: 1.994 ug/l

RT: 10.28 min Scan# 2647

Delta R.T. -0.10 min

Lab File: VN054288.D

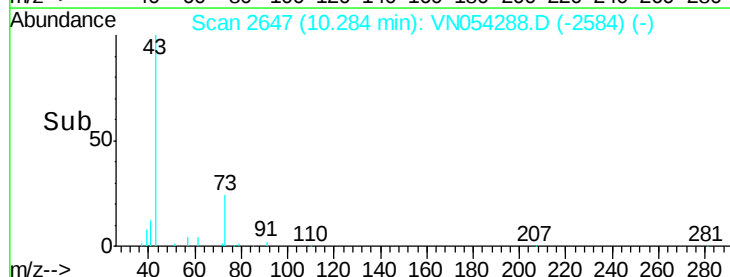
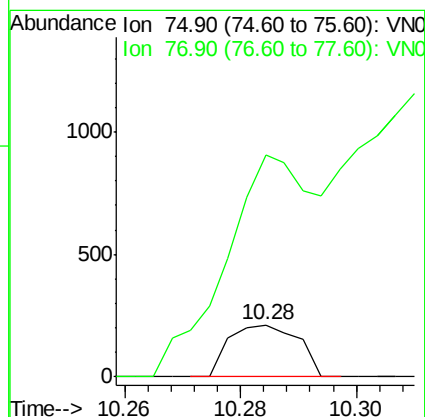
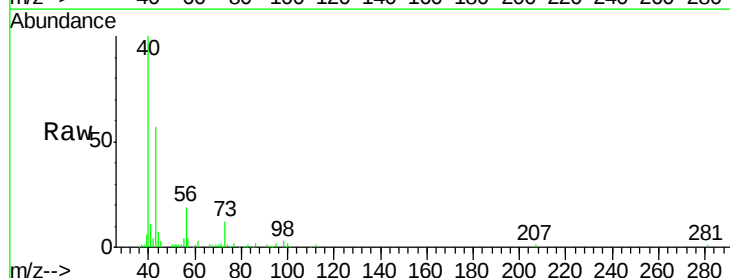
Acq: 15 Mar 2019 4:06

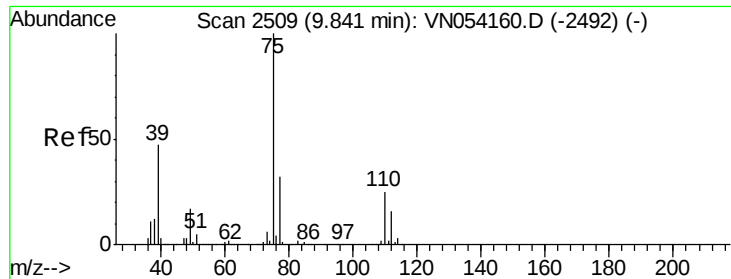
Tgt Ion: 75 Resp: 174

Ion Ratio Lower Upper

75 100

77 338.4 25.8 38.8#





#54

cis-1,3-Dichloropropene

Concen: 6.006 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampleId :

OILY-SOIL

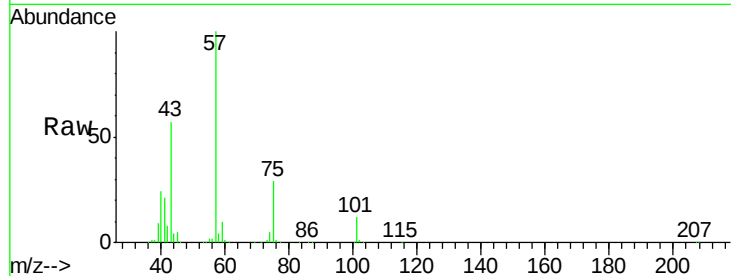
Tot Ion: 75 Resp: 134916

Ion Ratio Lower Upper

75 100

77 0.7 25.4 38.0#

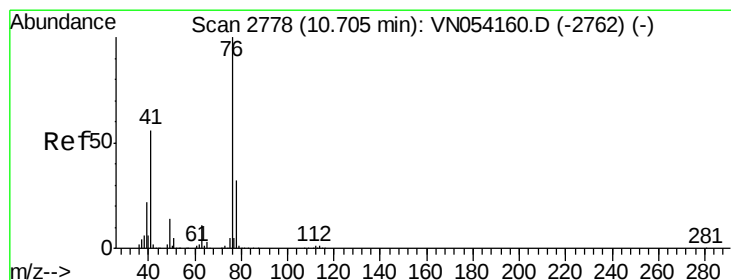
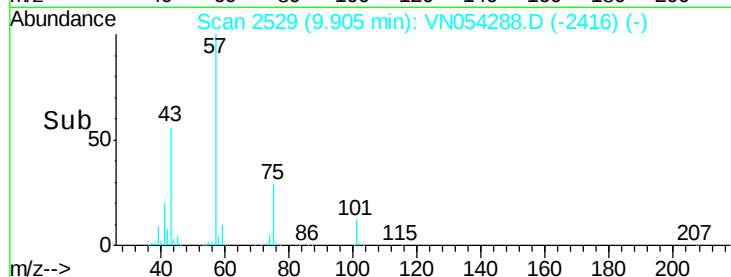
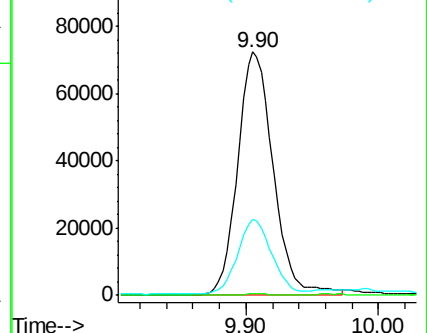
39 30.5 37.2 55.8#



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



#57

1,3-Dichloropropane

Concen: 1.207 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN054288.D

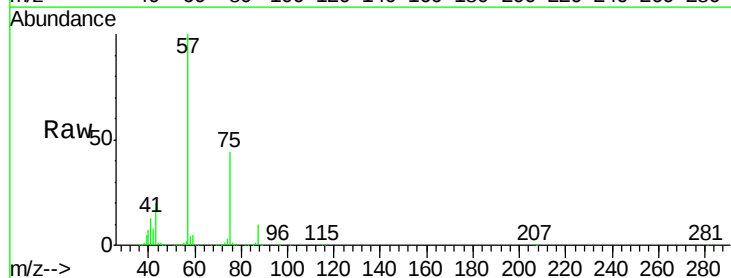
Acq: 15 Mar 2019 4:06

Tgt Ion: 76 Resp: 26180

Ion Ratio Lower Upper

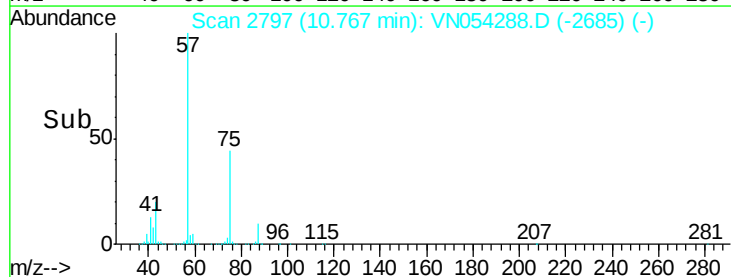
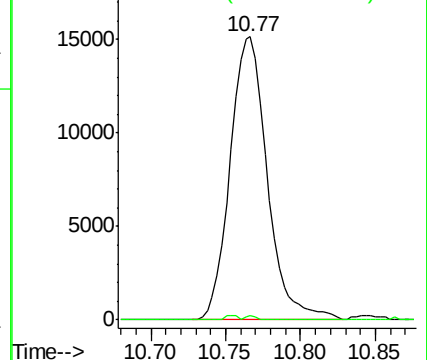
76 100

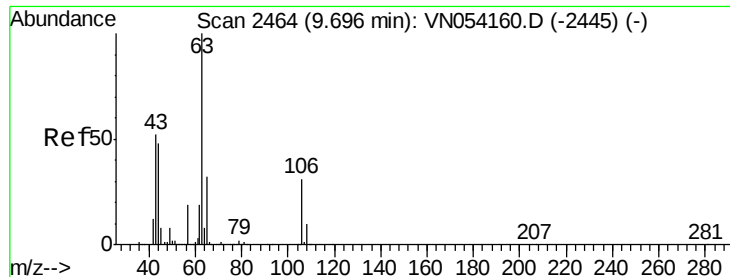
78 0.4 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#58

2-Chloroethyl Vinyl ether

Concen: 16.868 ug/l

RT: 9.62 min Scan# 2441

Delta R.T. -0.07 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampled :

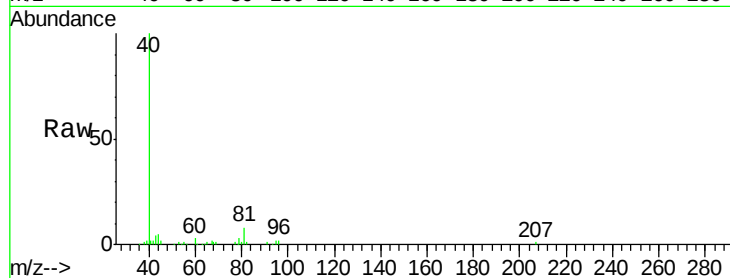
OILY-SOIL

Tot Ion: 63 Resp: 291

Ion Ratio Lower Upper

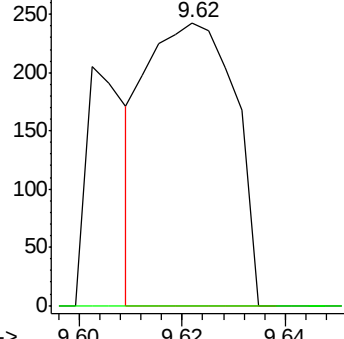
63 100

106 0.0 24.4 36.6#

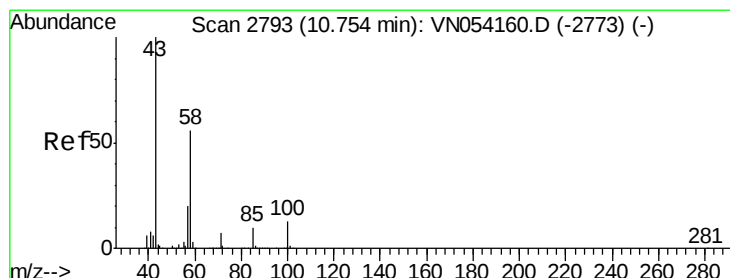
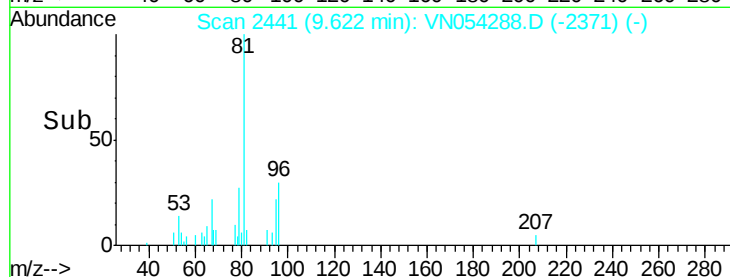


Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): VN



Time-->



#59

2-Hexanone

Concen: 48.329 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN054288.D

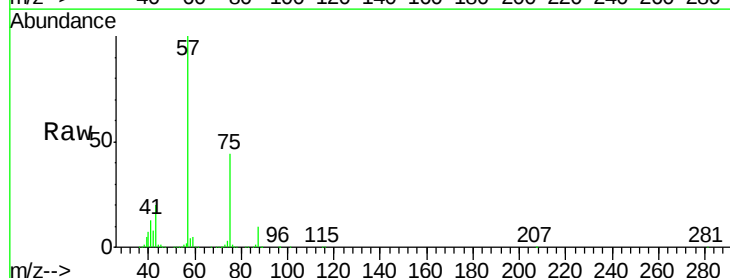
Acq: 15 Mar 2019 4:06

Tgt Ion: 43 Resp: 343745

Ion Ratio Lower Upper

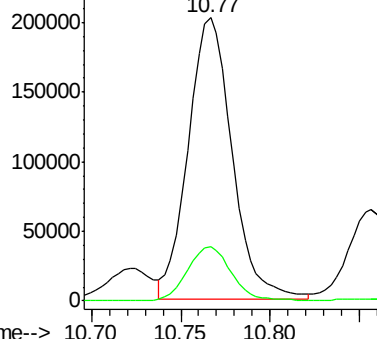
43 100

58 19.6 28.0 83.9#

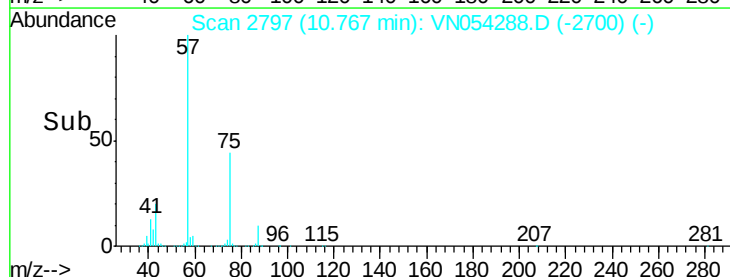


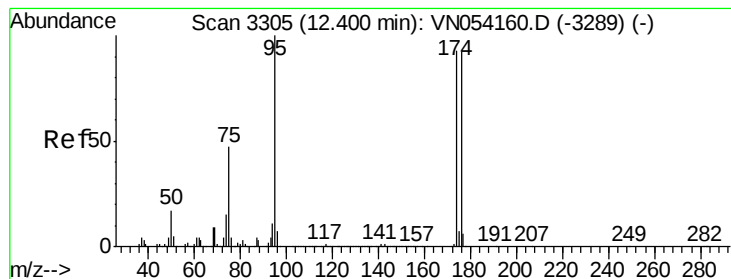
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#62

4-Bromofluorobenzene

Concen: 56.843 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampled :

OILY-SOIL

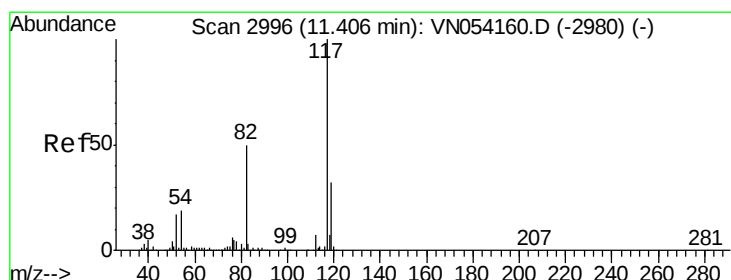
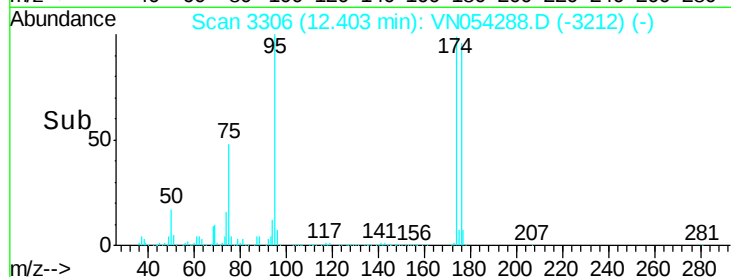
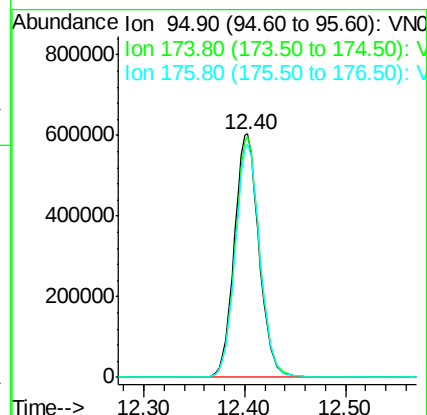
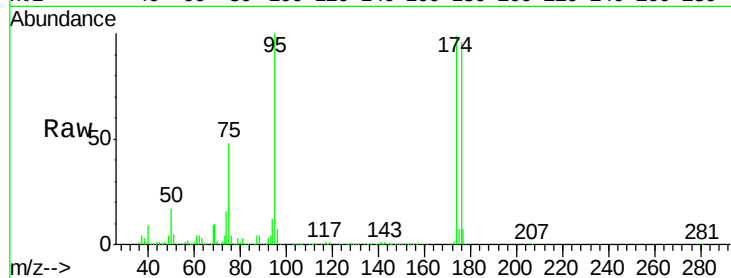
Tot Ion: 95 Resp: 1030272

Ion Ratio Lower Upper

95 100

174 98.0 0.0 191.0

176 95.3 0.0 187.4



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

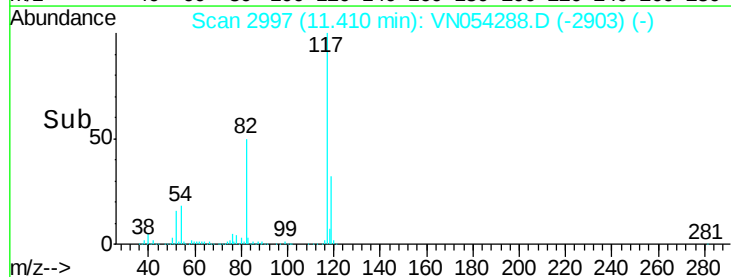
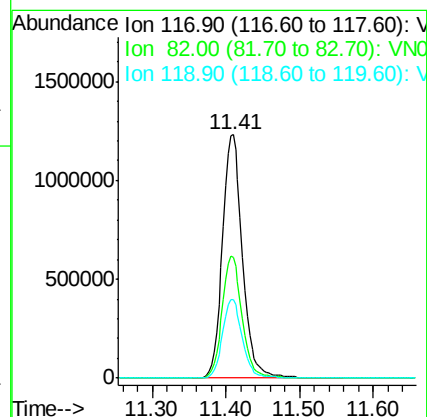
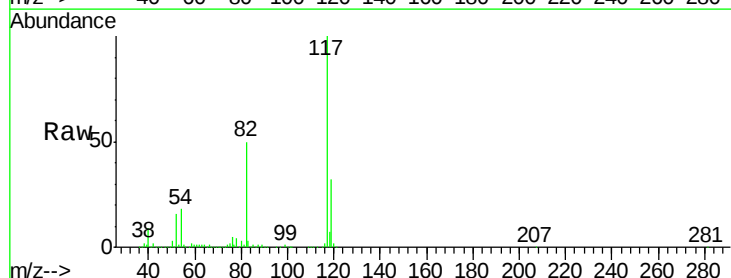
Tgt Ion: 117 Resp: 2312918

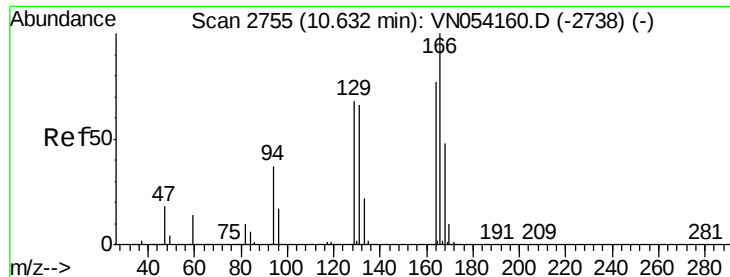
Ion Ratio Lower Upper

117 100

82 49.6 40.0 60.0

119 32.3 25.8 38.6





#64

Tetrachloroethene

Concen: 0.743 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampled :

OILY-SOIL

Tot Ion:164 Resp: 16608

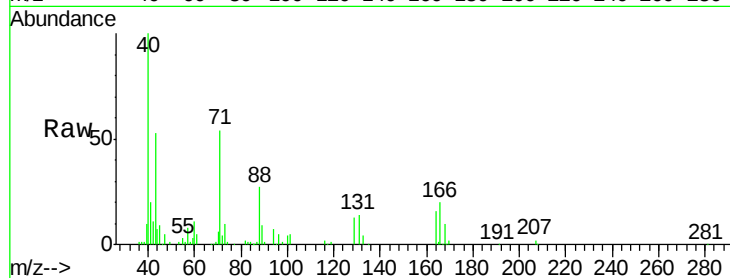
Ion Ratio Lower Upper

164 100

166 123.7 103.9 155.9

129 83.3 71.1 106.7

131 85.8 68.2 102.4

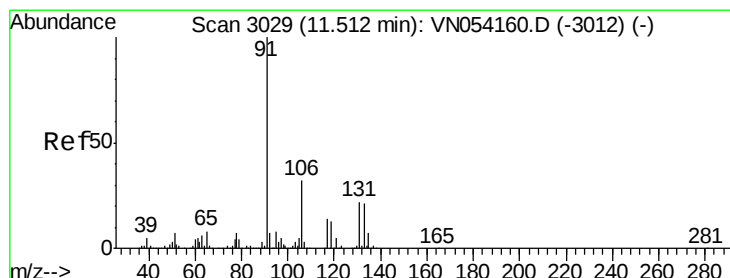
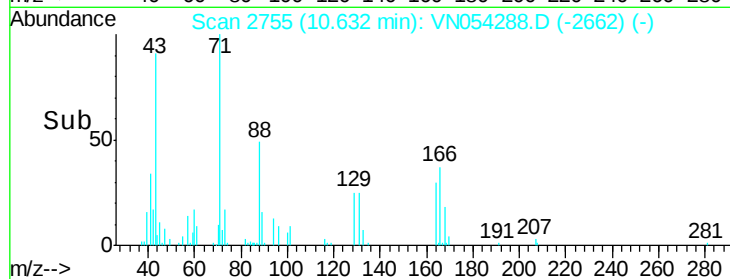
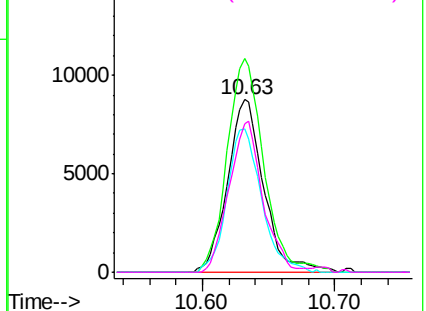


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#67

Ethyl Benzene

Concen: 1.861 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN054288.D

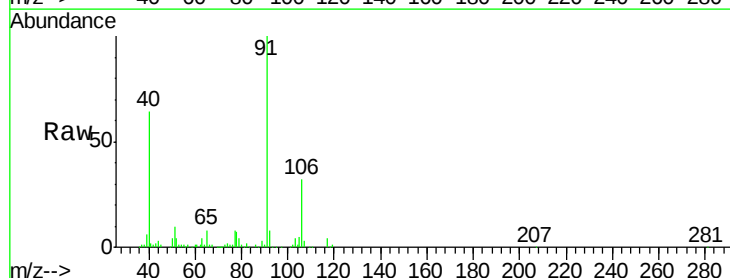
Acq: 15 Mar 2019 4:06

Tgt Ion: 91 Resp: 156641

Ion Ratio Lower Upper

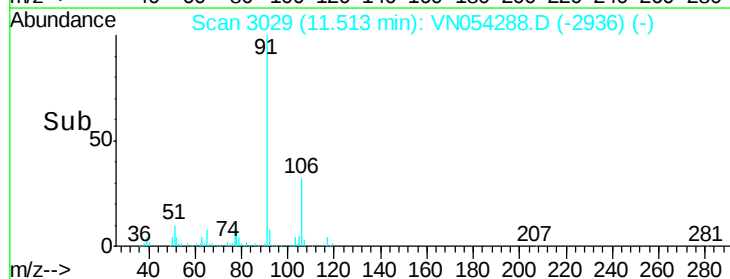
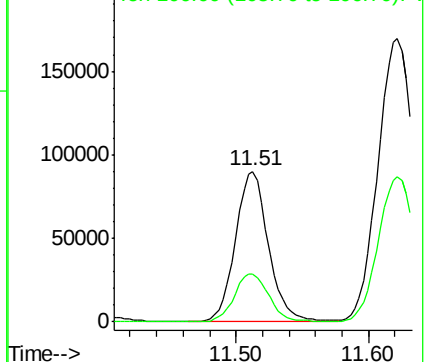
91 100

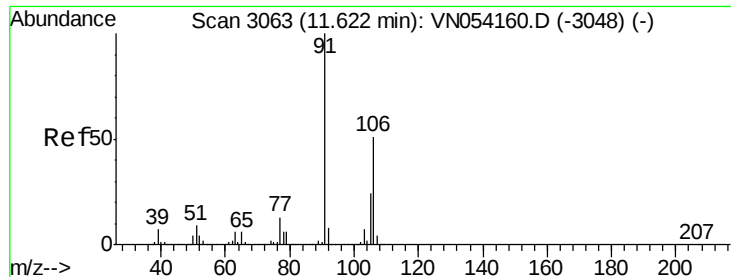
106 31.5 25.5 38.3



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 106.00 (105.70 to 106.70): V

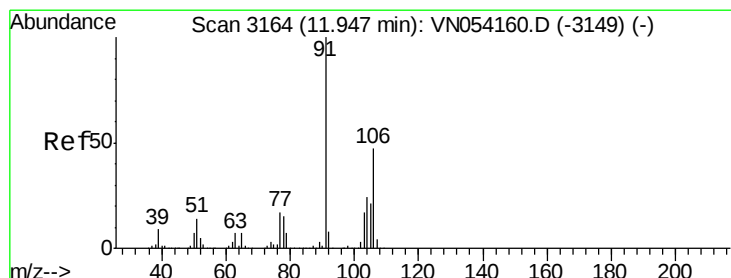
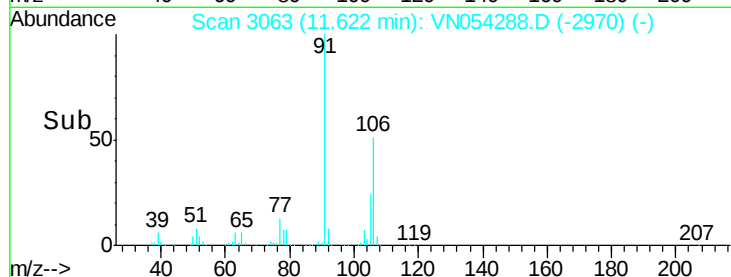
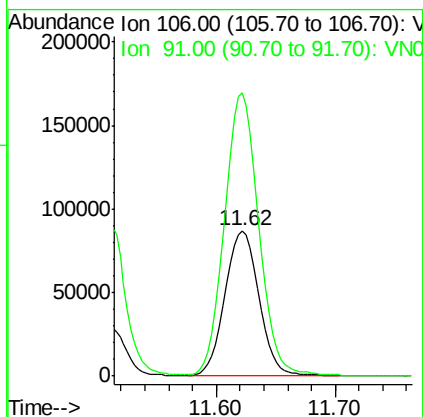
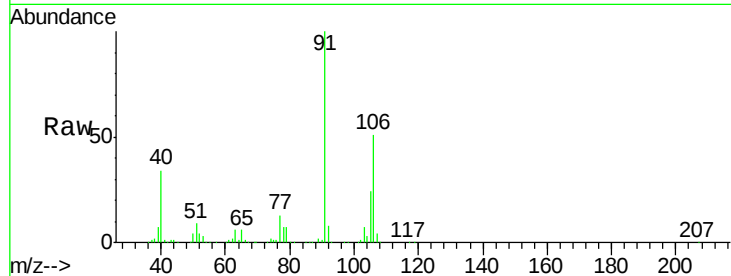




#68
m/p-Xylenes
Concen: 5.238 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN054288.D
Acq: 15 Mar 2019 4:06

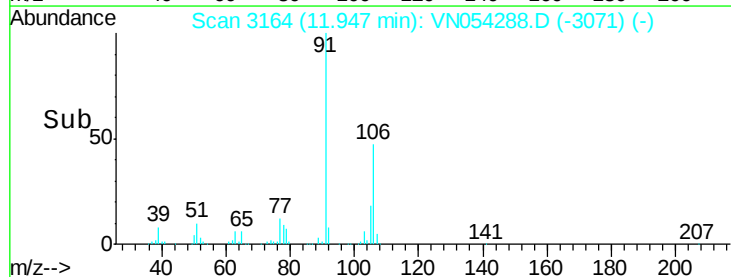
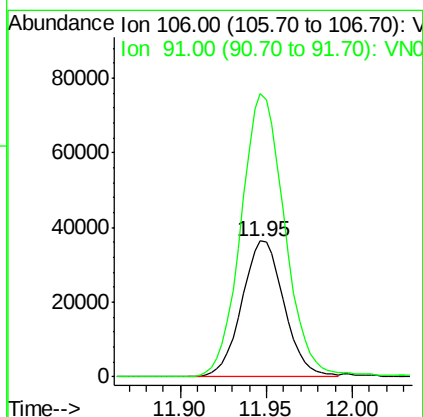
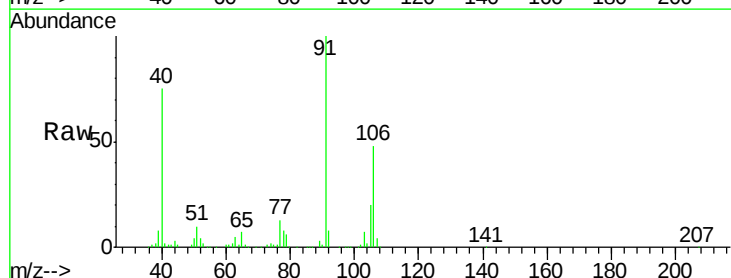
Instrument :
MSVOA_N
ClientSampled :
OILY-SOIL

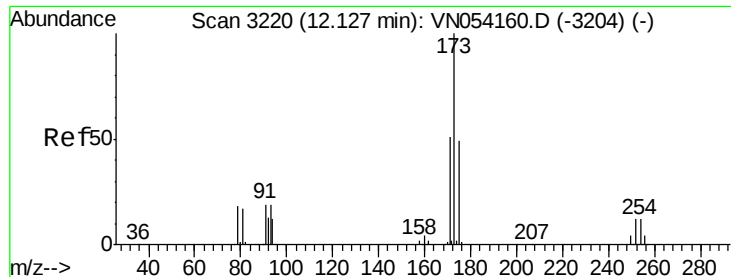
Tot Ion:106 Resp: 172360
Ion Ratio Lower Upper
106 100
91 196.1 159.4 239.2



#69
o-Xylene
Concen: 1.941 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054288.D
Acq: 15 Mar 2019 4:06

Tgt Ion:106 Resp: 62247
Ion Ratio Lower Upper
106 100
91 216.5 105.7 317.1





#71

Bromoform

Concen: 2.831 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampled :

OILY-SOIL

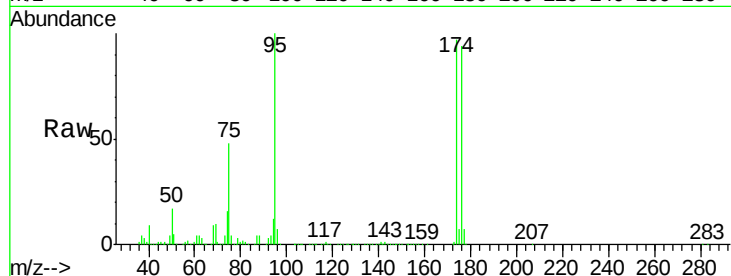
Tot Ion:173 Resp: 7090

Ion Ratio Lower Upper

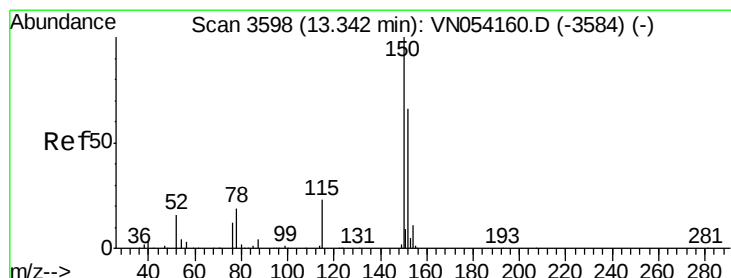
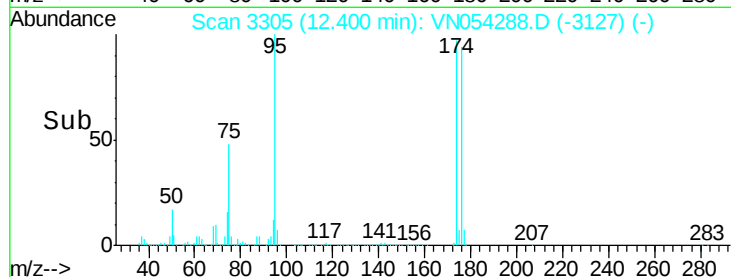
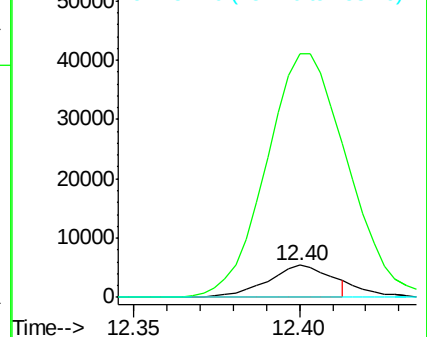
173 100

175 837.7 24.4 73.2#

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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

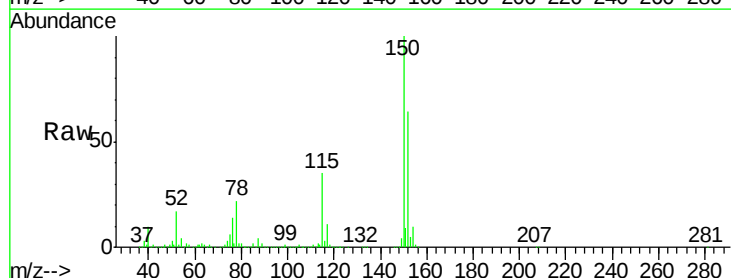
Tgt Ion:152 Resp: 989052

Ion Ratio Lower Upper

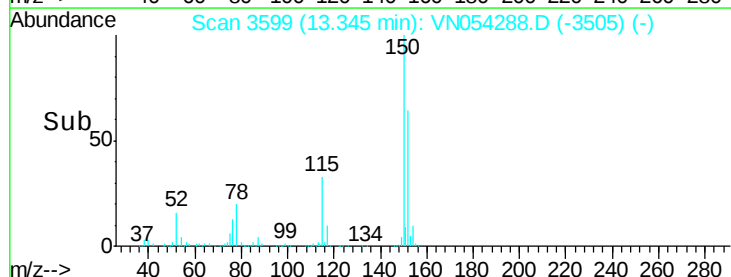
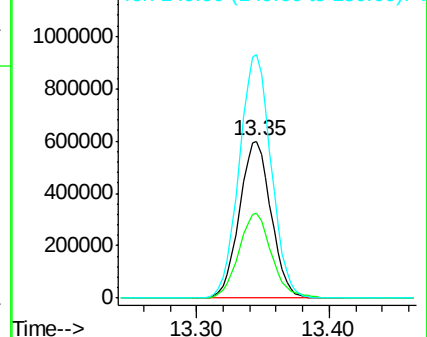
152 100

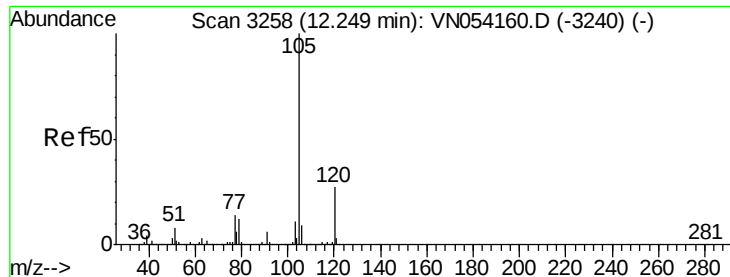
115 56.1 27.2 81.6

150 157.1 0.0 349.2



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





#73

Isopropylbenzene

Concen: 0.325 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampled :

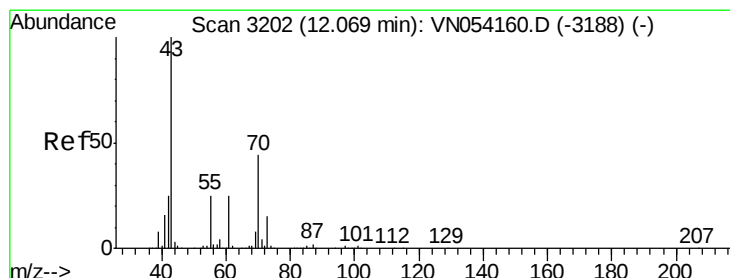
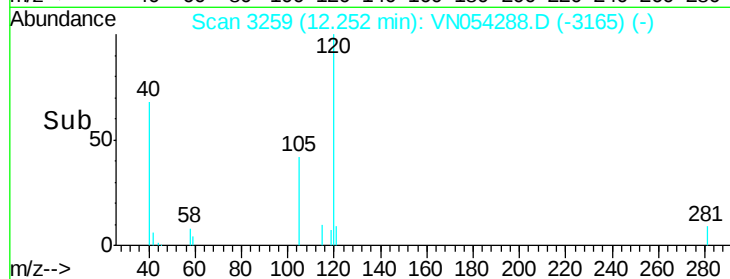
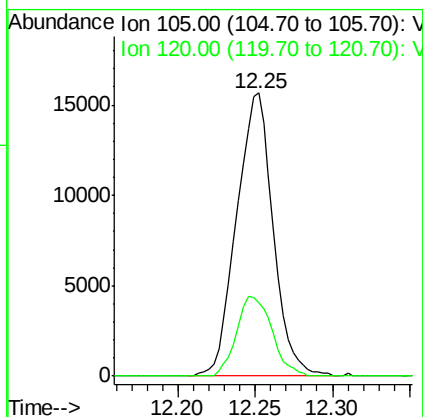
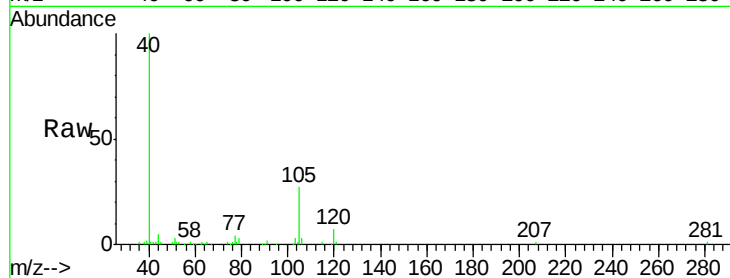
OILY-SOIL

Tot Ion:105 Resp: 25679

Ion Ratio Lower Upper

105 100

120 27.3 13.8 41.3



#74

N-ethyl acetate

Concen: 2.026 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Tgt Ion: 43 Resp: 35581

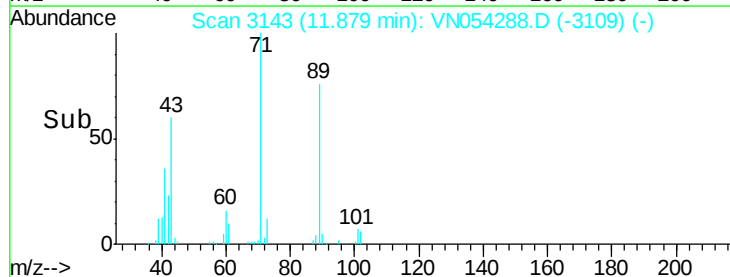
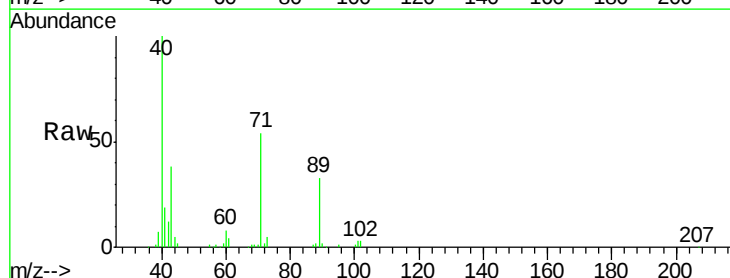
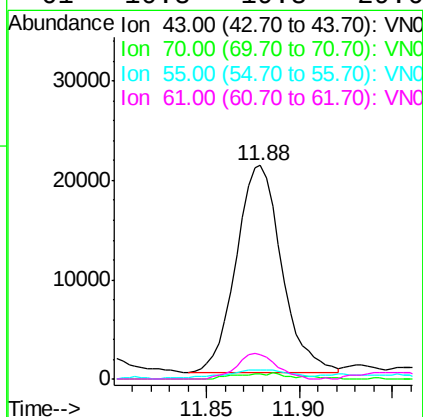
Ion Ratio Lower Upper

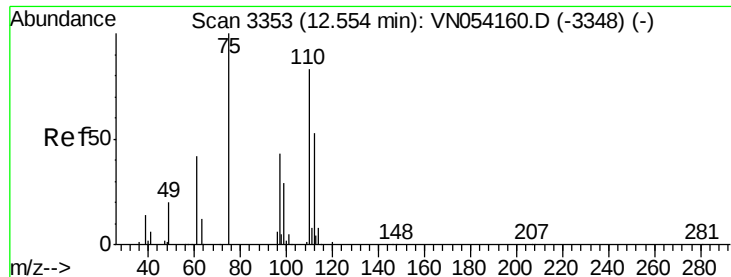
43 100

70 2.9 35.4 53.0#

55 5.8 19.8 29.6#

61 10.8 19.8 29.6#





#76

1,2,3-Trichloropropane

Concen: 34.023 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampled :

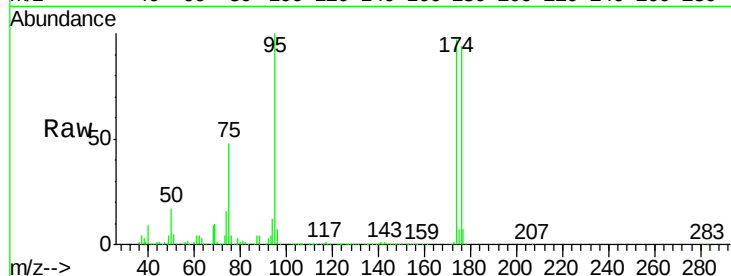
OILY-SOIL

Tot Ion: 75 Resp: 494853

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

12.40

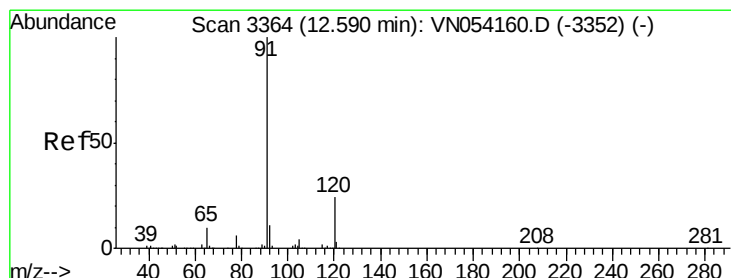
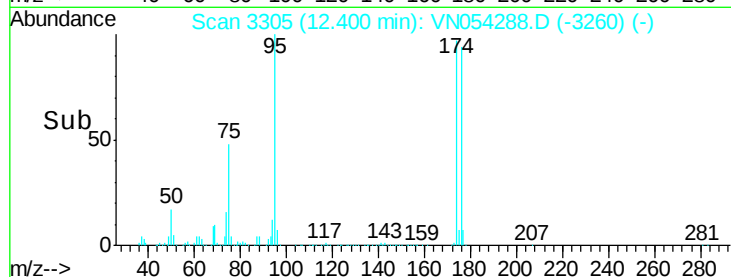
300000

200000

100000

0

Time-->



#78

n-propylbenzene

Concen: 0.941 ug/l

RT: 12.59 min Scan# 3365

Delta R.T. 0.00 min

Lab File: VN054288.D

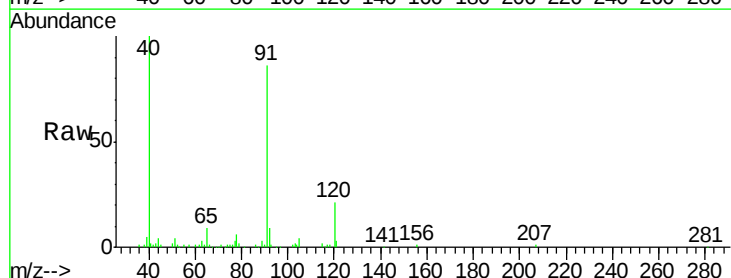
Acq: 15 Mar 2019 4:06

Tgt Ion: 91 Resp: 80784

Ion Ratio Lower Upper

91 100

120 24.4 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

12.59

50000

40000

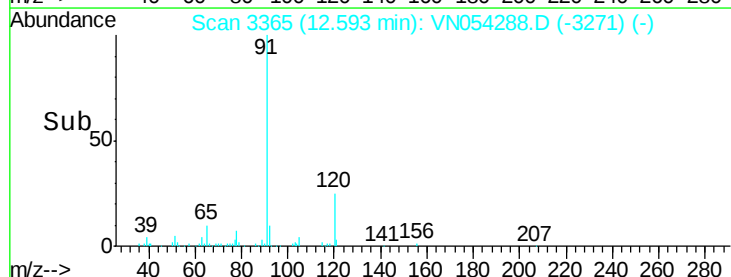
30000

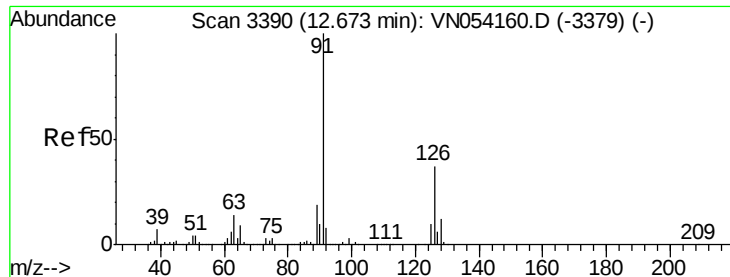
20000

10000

0

Time-->





#79

2-Chlorotoluene

Concen: 0.446 ug/l

RT: 12.69 min Scan# 3394

Delta R.T. 0.01 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampled :

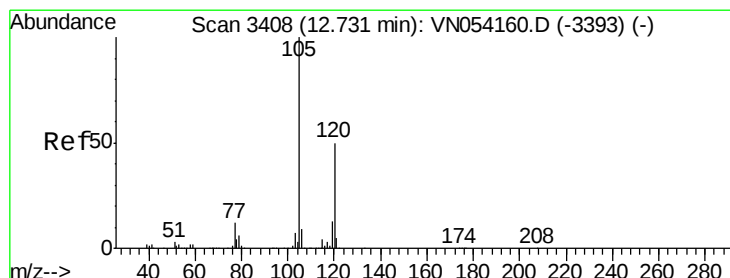
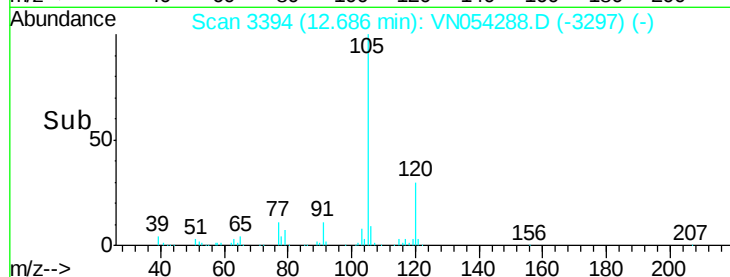
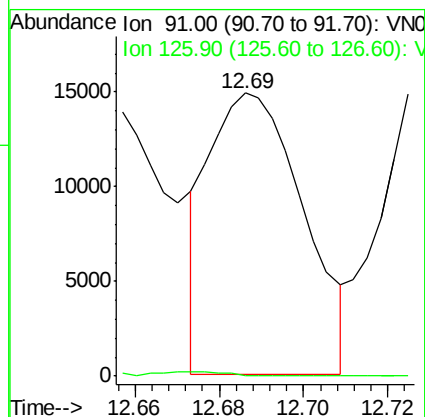
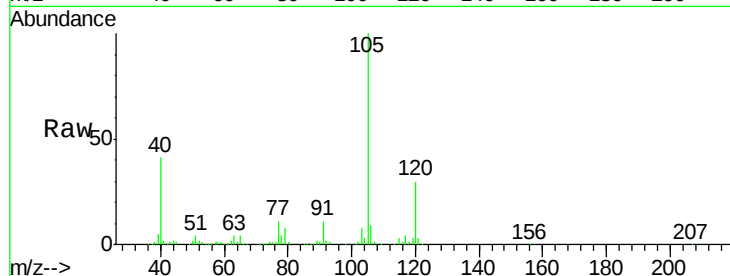
OILY-SOIL

Tot Ion: 91 Resp: 23011

Ion Ratio Lower Upper

91 100

126 1.1 18.7 56.1#



#80

1,3,5-Trimethylbenzene

Concen: 4.898 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054288.D

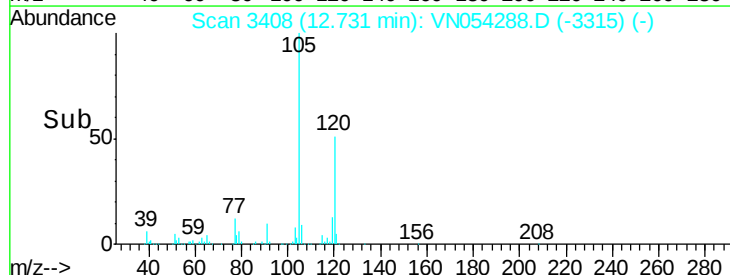
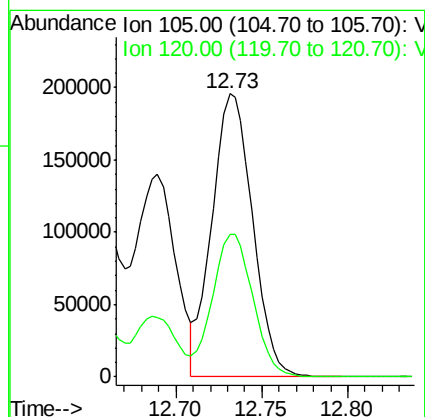
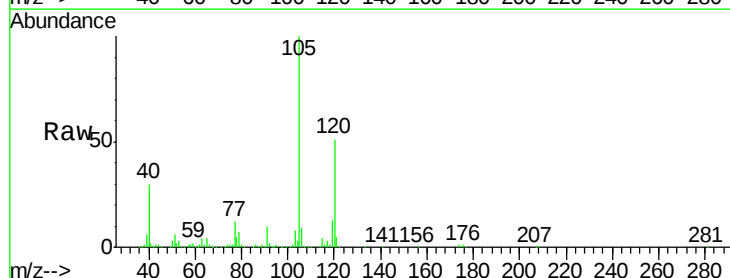
Acq: 15 Mar 2019 4:06

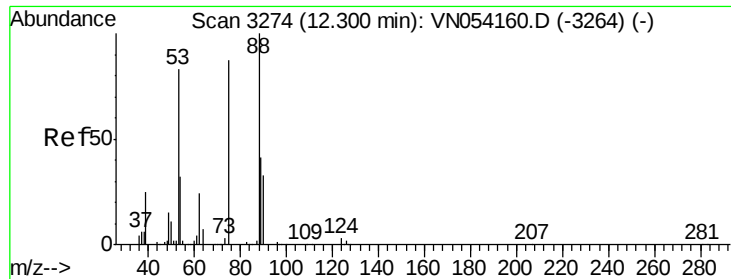
Tgt Ion: 105 Resp: 322359

Ion Ratio Lower Upper

105 100

120 50.1 25.0 75.0





#81

trans-1,4-Dichloro-2-butene

Concen: 116.307 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampleId :

OILY-SOIL

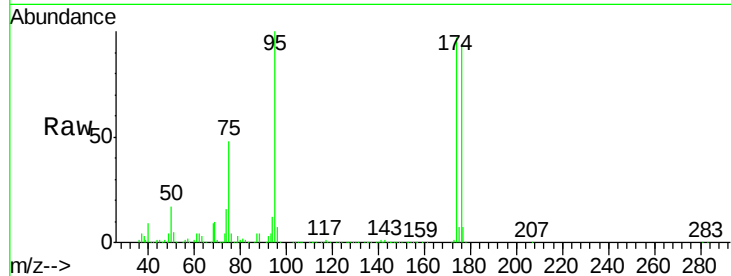
Tot Ion: 75 Resp: 494853

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

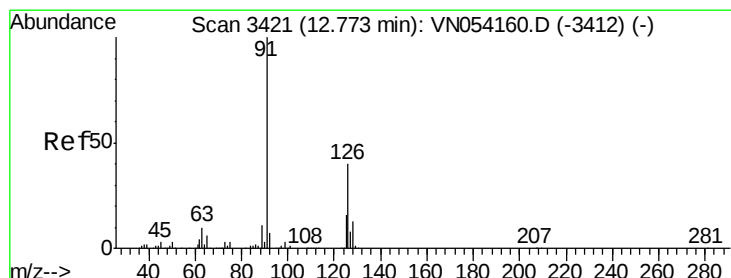
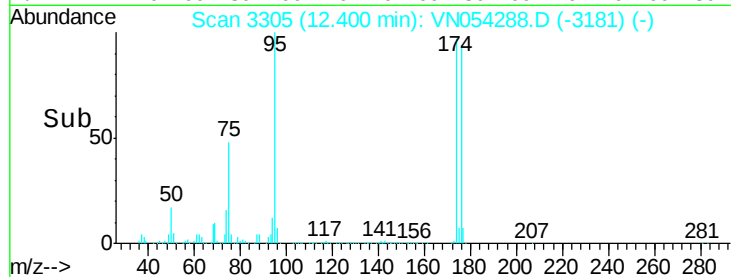
300000 12.40

200000

100000

0

Time--> 12.30 12.40 12.50



#82

4-Chlorotoluene

Concen: 0.644 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. -0.04 min

Lab File: VN054288.D

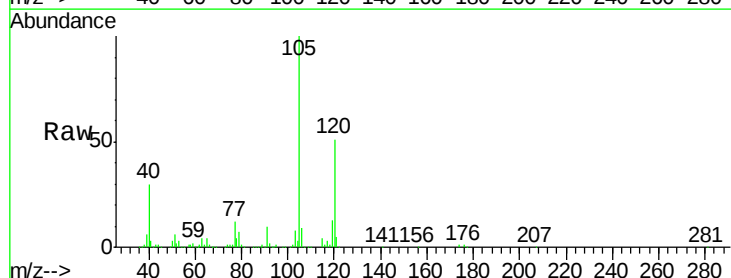
Acq: 15 Mar 2019 4:06

Tgt Ion: 91 Resp: 33194

Ion Ratio Lower Upper

91 100

126 0.0 18.1 54.1#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

20000 12.73

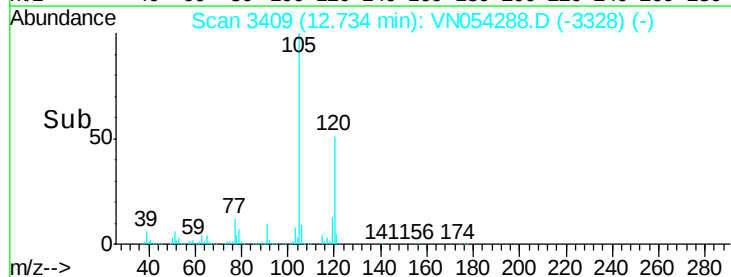
15000

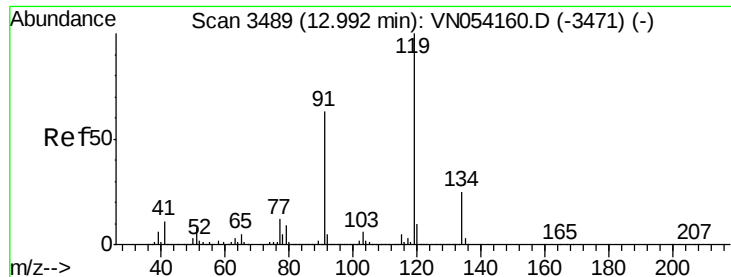
10000

5000

0

Time--> 12.70 12.80





#83

tert-Butylbenzene

Concen: 1.261 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.05 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampleId :

OILY-SOIL

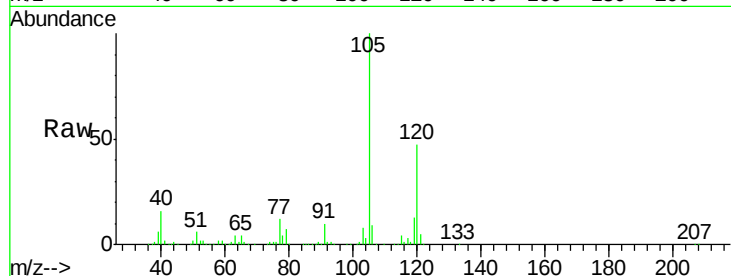
Tot Ion:119 Resp: 76413

Ion Ratio Lower Upper

119 100

91 78.3 30.9 92.8

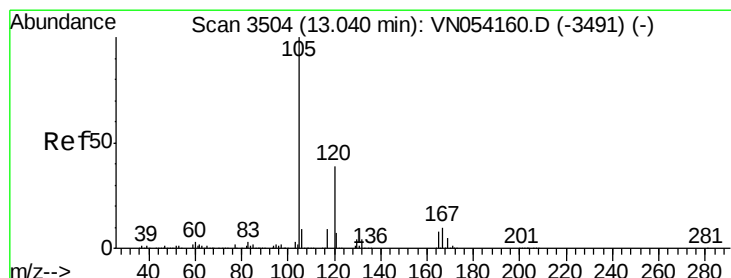
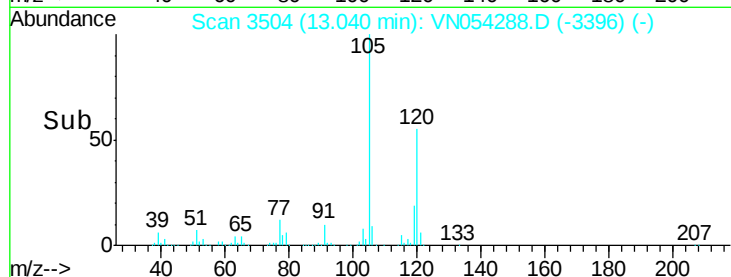
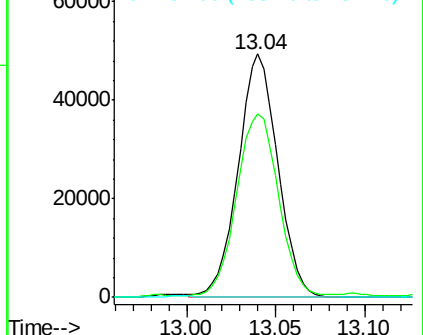
134 0.0 13.2 39.6#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN0

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 9.287 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054288.D

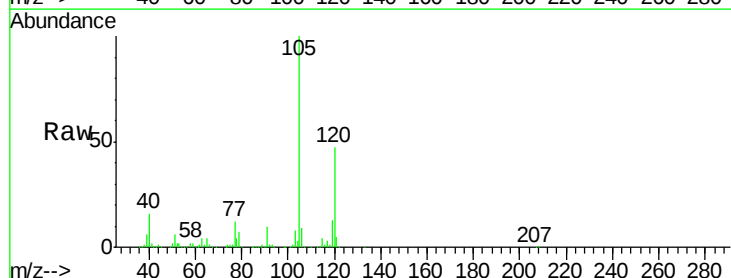
Acq: 15 Mar 2019 4:06

Tgt Ion:105 Resp: 599678

Ion Ratio Lower Upper

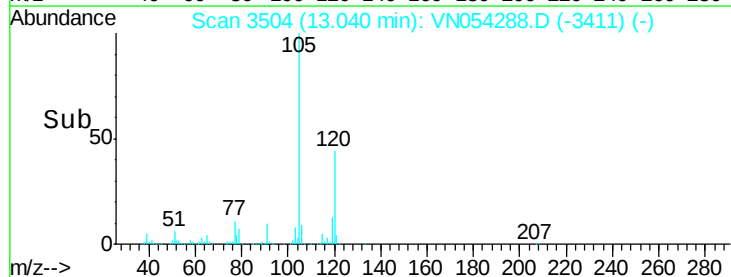
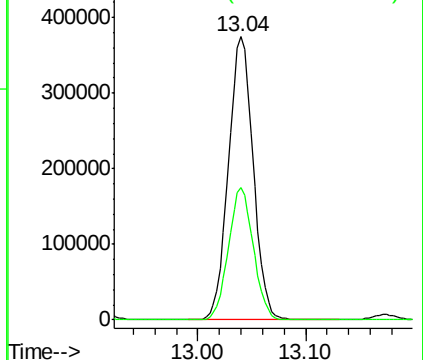
105 100

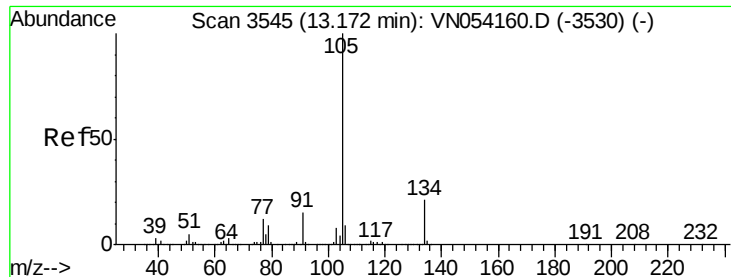
120 47.0 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 7.633 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.13 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampled :

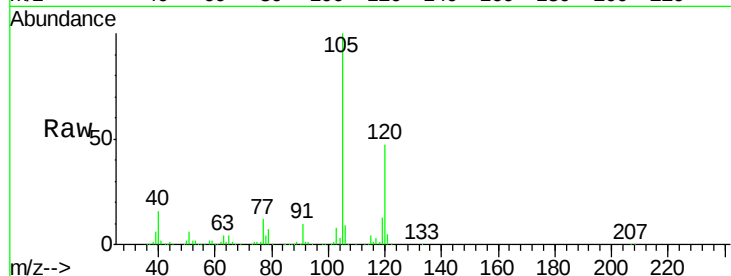
OILY-SOIL

Tot Ion: 105 Resp: 599678

Ion Ratio Lower Upper

105 100

134 0.0 10.7 32.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

400000

300000

200000

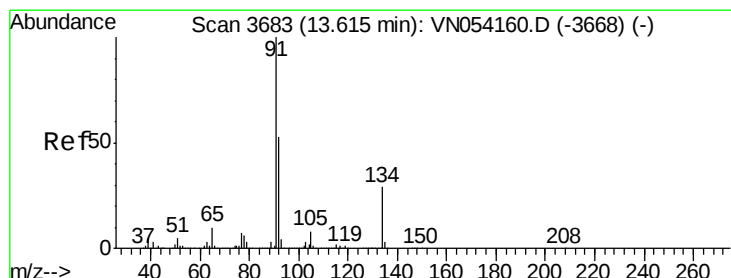
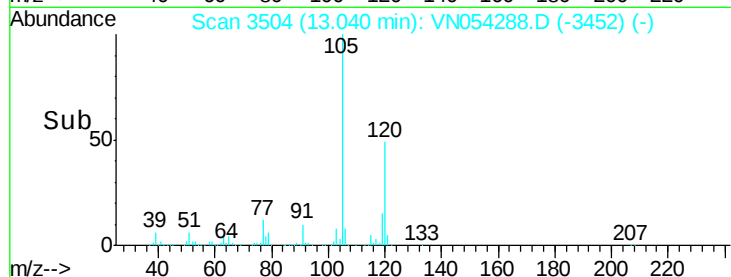
100000

0

13.04

13.10

Time-->



#89

n-Butylbenzene

Concen: 0.275 ug/l

RT: 13.58 min Scan# 3673

Delta R.T. -0.03 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

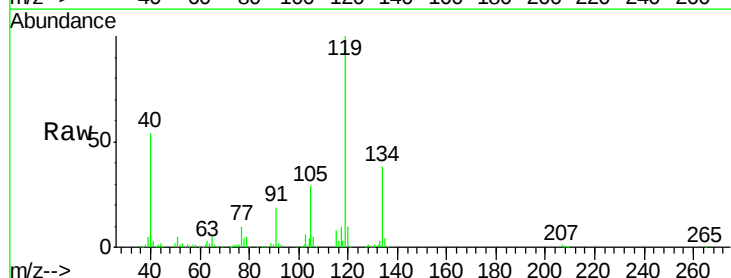
Tgt Ion: 91 Resp: 14384

Ion Ratio Lower Upper

91 100

92 18.5 26.2 78.6#

134 516.2 14.3 42.9#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V

50000

40000

30000

20000

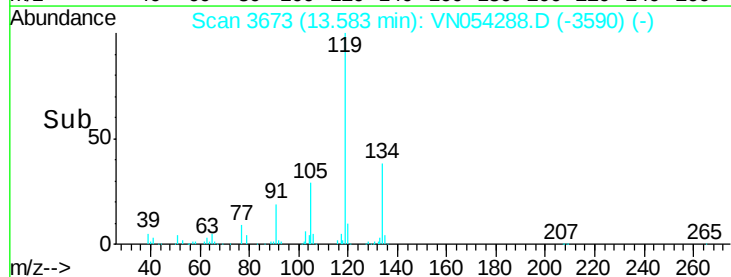
10000

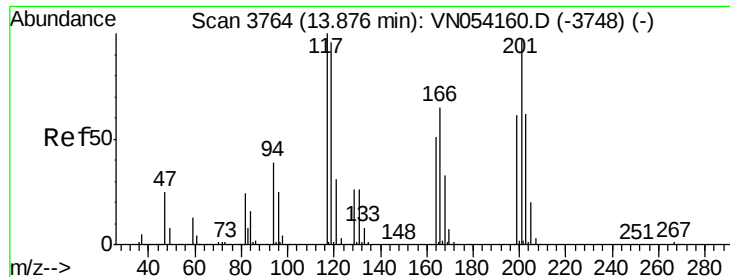
0

13.58

13.60

Time-->





#90

Hexachloroethane

Concen: 1.978 ug/l

RT: 13.89 min Scan# 3768

Delta R.T. 0.01 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampleId :

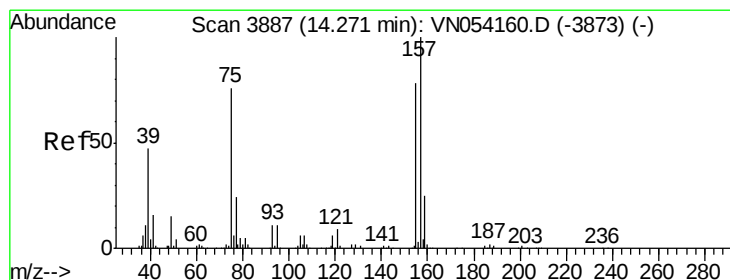
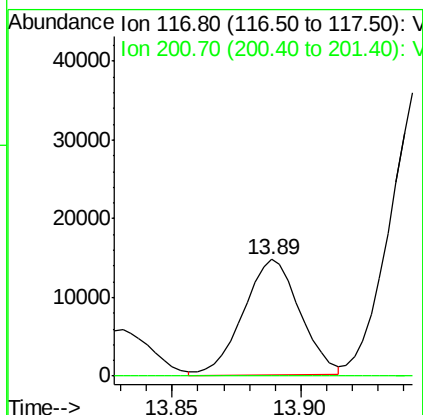
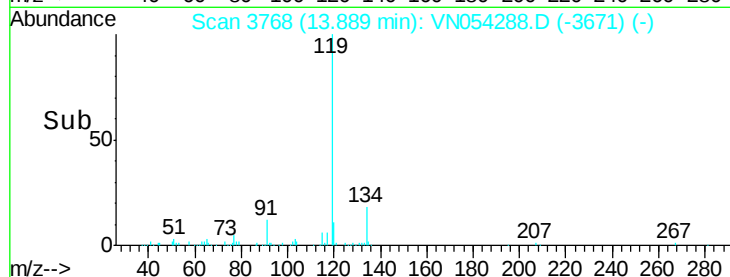
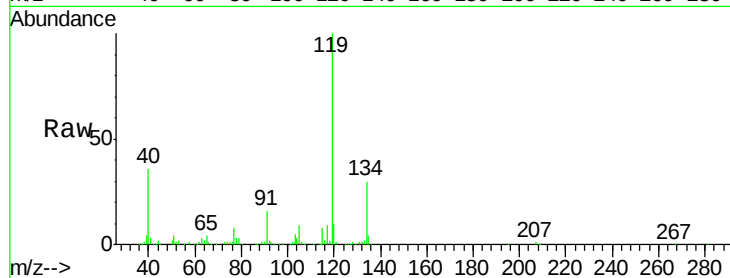
OILY-SOIL

Tot Ion:117 Resp: 22572

Ion Ratio Lower Upper

117 100

201 0.0 48.1 144.4#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.519 ug/l

RT: 14.25 min Scan# 3880

Delta R.T. -0.02 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

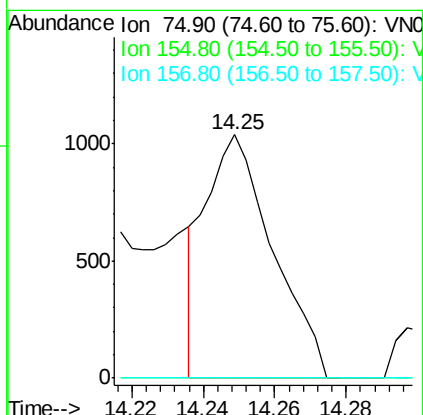
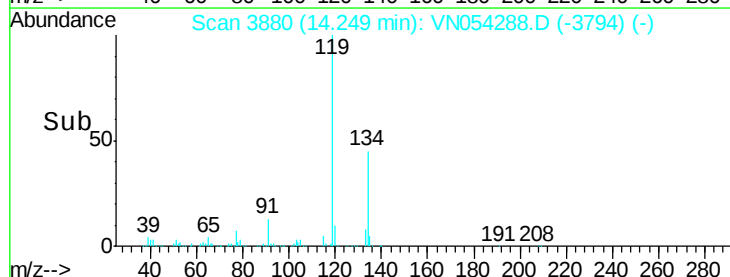
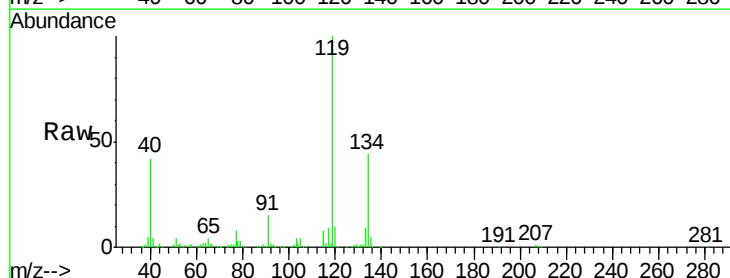
Tgt Ion: 75 Resp: 1353

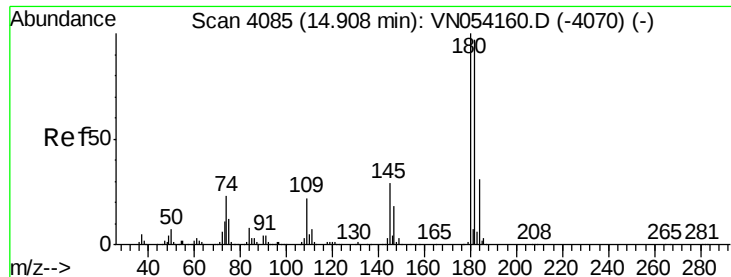
Ion Ratio Lower Upper

75 100

155 0.0 50.1 150.3#

157 0.0 63.1 189.3#





#93

1,2,4-Trichlorobenzene

Concen: 2.562 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

Instrument :

MSVOA_N

ClientSampled :

OILY-SOIL

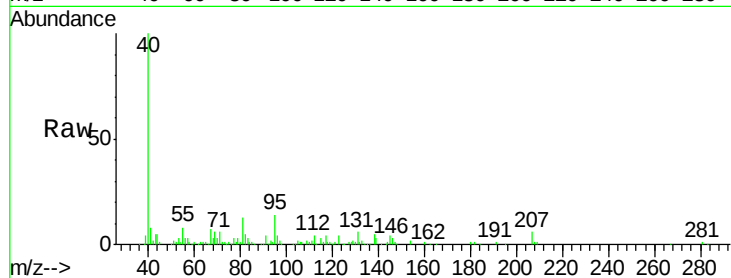
Tot Ion:180 Resp: 989

Ion Ratio Lower Upper

180 100

182 101.5 48.0 144.2

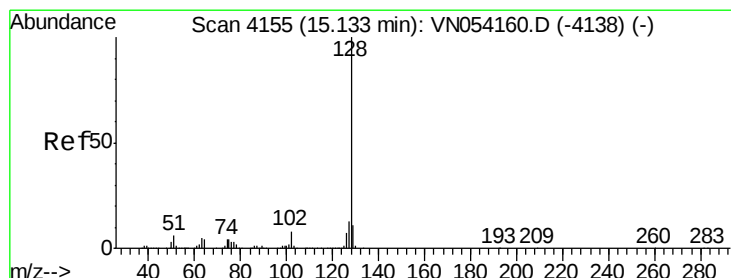
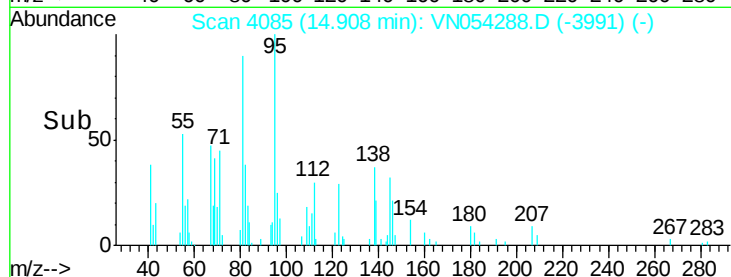
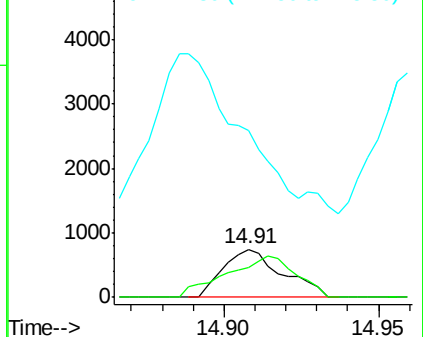
145 0.0 14.2 42.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 6.525 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054288.D

Acq: 15 Mar 2019 4:06

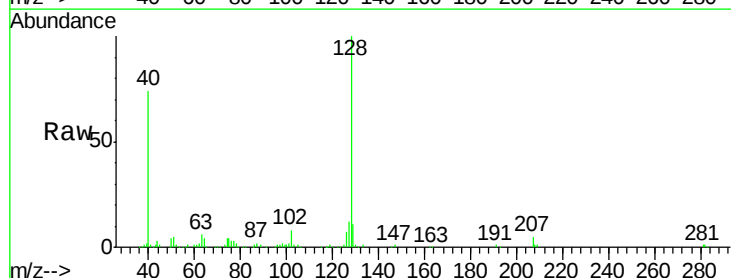
Tgt Ion:128 Resp: 142443

Ion Ratio Lower Upper

128 100

127 11.9 10.1 15.1

129 10.1 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

