

Data Path : W:\HPCHEM1\MSVOA T\DATA\VT051018\
 Data File : VT019073.D
 Acq On : 10 May 2018 13:45
 Operator : SY/MD
 Sample : J2133-03MDL
 Misc : 5.00g/5mL/MSVOA T/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 MDL-SOIL-03-QT2-2018DL

Quant Time: May 11 02:23:31 2018
 Quant Method : W:\HPCHEM1\MSVOA_T\METHODS\2015\82T050818S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 10 07:01:04 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.44	168	821299	50.00	ug/l	0.00
33) 1,4-Difluorobenzene	8.38	114	1481877	50.00	ug/l	0.00
62) Chlorobenzene-d5	11.22	117	1237378	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	13.16	152	554359	50.00	ug/l	0.00

System Monitoring Compounds

32) 1,2-Dichloroethane-d4	7.80	65	450274	57.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.52%	
34) Dibromofluoromethane	7.35	113	432060	52.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.14%	
49) Toluene-d8	9.91	98	1895282	53.24	ug/l	0.01
Spiked Amount	50.000		Recovery	=	106.48%	
61) 4-Bromofluorobenzene	12.22	95	658086	49.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.20%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.78	85	26205	2.49	ug/l	78
3) Chloromethane	1.96	50	9386	2.62	ug/l #	74
4) Vinyl Chloride	2.10	62	10872	1.88	ug/l #	23
5) Bromomethane	2.46	94	14142	2.99	ug/l	97
6) Chloroethane	2.59	64	10174	2.86	ug/l #	72
7) Trichlorofluoromethane	2.85	101	41081m	2.64	ug/l	
8) Diethyl Ether	3.21	74	6158	2.61	ug/l	88
9) 1,1,2-Trichlorotrifluoroet	3.60	101	21086	2.80	ug/l #	75
10) Methyl Iodide	3.78	142	28839	2.64	ug/l #	88
11) Tert butyl alcohol	4.56	59	4185	10.61	ug/l #	85
12) 1,1-Dichloroethene	3.56	96	16939	2.53	ug/l #	90
13) Acrolein	3.39	56	3431	17.83	ug/l	95
14) Allyl chloride	4.06	41	30720	2.13	ug/l	91
15) Acrylonitrile	4.72	53	17557	11.56	ug/l #	72
16) Acetone	3.60	43	14752	17.83	ug/l	95
17) Carbon Disulfide	3.89	76	58686m	2.12	ug/l	
18) Methyl Acetate	4.08	43	8697	2.05	ug/l	97
19) Methyl tert-butyl Ether	4.76	73	27430	1.63	ug/l	94
20) Methylene Chloride	4.29	84	29909m	3.36	ug/l	
21) trans-1,2-Dichloroethene	4.74	96	22107	2.24	ug/l	90
22) Diisopropyl ether	5.69	45	48261	1.80	ug/l #	85
23) Vinyl Acetate	5.63	43	103441	8.70	ug/l	97
24) 1,1-Dichloroethane	5.57	63	44215	2.36	ug/l	94
25) 2-Butanone	6.59	43	21631	11.61	ug/l #	86
26) 2,2-Dichloropropane	6.55	77	18642	2.47	ug/l	77
27) cis-1,2-Dichloroethene	6.55	96	21200	2.18	ug/l	88
28) Bromochloromethane	6.95	49	14423	2.32	ug/l	94
29) Chloroform	7.14	83	37950	2.16	ug/l	85
30) Cyclohexane	7.44	56	56250	2.77	ug/l #	50
31) 1,1,1-Trichloroethane	7.33	97	31217	2.30	ug/l	90
35) 1,1-Dichloropropene	7.56	75	32444	1.90	ug/l	99
36) Ethyl Acetate	6.68	43	10759	2.44	ug/l #	56
37) Carbon Tetrachloride	7.54	117	28811	2.06	ug/l	91
38) Methylcyclohexane	8.88	83	35988	1.77	ug/l	92

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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Benzene	7.82	78	97318	2.18	ug/l #	1
40) Methacrylonitrile	6.92	41	5946	2.81	ug/l #	74
41) 1,2-Dichloroethane	7.91	62	21451	2.21	ug/l	99
42) Isopropyl Acetate	7.96	43	10913	1.44	ug/l #	93
43) Trichloroethene	8.63	130	18451	1.80	ug/l	76
44) 1,2-Dichloropropane	8.93	63	20111	1.92	ug/l	94
45) Dibromomethane	9.01	93	8672	2.11	ug/l	84
46) Bromodichloromethane	9.21	83	25264	2.11	ug/l	86
47) Methyl methacrylate	9.01	41	7765	1.98	ug/l #	59
48) 1,4-Dioxane	9.01	88	2165	34.95	ug/l #	57
50) 4-Methyl-2-Pentanone	9.80	43	37643	9.06	ug/l	97
51) Toluene	9.97	92	58602	2.27	ug/l	90
52) t-1,3-Dichloropropene	10.21	75	19260	1.77	ug/l	91
53) cis-1,3-Dichloropropene	9.65	75	22356	1.62	ug/l	91
54) 1,1,2-Trichloroethane	10.38	97	12294	1.97	ug/l #	89
55) Ethyl methacrylate	10.25	69	12010	1.61	ug/l #	69
56) 1,3-Dichloropropane	10.53	76	21793	1.95	ug/l #	86
57) 2-Chloroethyl Vinyl ether	9.51	63	32153	9.33	ug/l	95
58) 2-Hexanone	10.57	43	27356	9.08	ug/l	94
59) Dibromochloromethane	10.73	129	10666	1.64	ug/l	98
60) 1,2-Dibromoethane	10.82	107	9881	1.83	ug/l	87
63) Tetrachloroethene	10.45	164	17661	2.09	ug/l #	81
64) Chlorobenzene	11.25	112	55463	2.16	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.33	131	15269	1.84	ug/l	90
66) Ethyl Benzene	11.33	91	98613	2.01	ug/l	96
67) m/p-Xylenes	11.45	106	62906	3.44	ug/l	79
68) o-Xylene	11.77	106	25738	1.50	ug/l	99
69) Stvrene	11.79	104	43271	1.63	ug/l	89
70) Bromoform	11.96	173	6135	1.94	ug/l #	84
72) Isopropylbenzene	12.08	105	79787	1.78	ug/l	99
73) N-amyl acetate	11.90	43	12996	1.76	ug/l #	91
74) 1,1,2,2-Tetrachloroethane	12.32	83	13462	2.04	ug/l #	66
75) 1,2,3-Trichloropropane	12.37	75	10111m	2.14	ug/l	
76) Bromobenzene	12.35	156	18772	2.12	ug/l	90
77) n-propylbenzene	12.42	91	118516	2.84	ug/l	99
78) 2-Chlorotoluene	12.49	91	63911	1.95	ug/l	98
79) 1,3,5-Trimethylbenzene	12.56	105	79485	2.05	ug/l	87
80) trans-1,4-Dichloro-2-buten	12.12	75	2476m	1.40	ug/l	
81) 4-Chlorotoluene	12.60	91	78008	1.95	ug/l	93
82) tert-Butylbenzene	12.82	119	75092	2.22	ug/l	92
83) 1,2,4-Trimethylbenzene	12.86	105	75527	1.92	ug/l	94
84) sec-Butylbenzene	13.00	105	96100	2.01	ug/l	91
85) p-Isopropyltoluene	13.12	119	77347	1.93	ug/l	97
86) 1,3-Dichlorobenzene	13.10	146	39390	2.11	ug/l	99
87) 1,4-Dichlorobenzene	13.19	146	41072	2.26	ug/l	98
88) n-Butylbenzene	13.44	91	91636	2.13	ug/l	83
89) Hexachloroethane	13.70	117	13390	1.92	ug/l	90
90) 1,2-Dichlorobenzene	13.47	146	32799	2.10	ug/l	96
91) 1,2-Dibromo-3-Chloropropan	14.08	75	2917	3.07	ug/l	70
92) 1,2,4-Trichlorobenzene	14.73	180	19399	1.86	ug/l	94

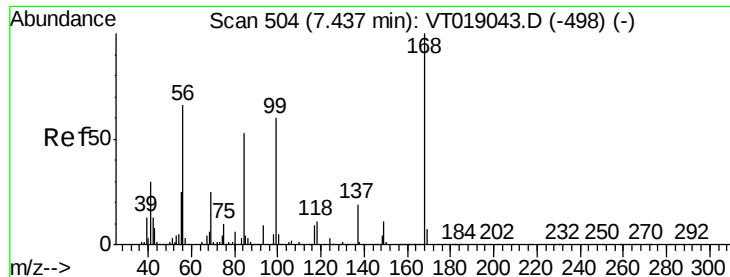
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Quant Title : SW846 8260
QLast Update : Thu May 10 07:01:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) Hexachlorobutadiene	14.83	225	15270	2.00	ug/l	96
94) Naphthalene	14.95	128	26005	1.54	ug/l #	84
95) 1,2,3-Trichlorobenzene	15.12	180	15982	1.85	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.44 min Scan# 504

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

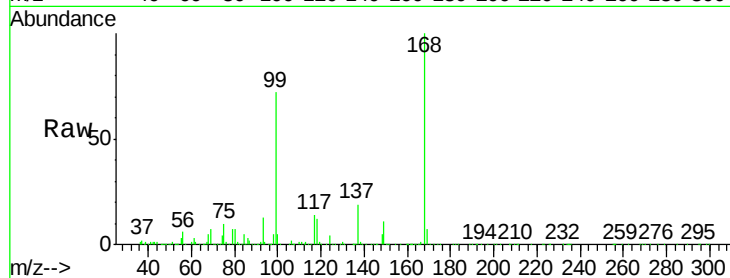
MDL-SOIL-03-QT2-2018DL

Tot Ion:168 Resp: 821299

Ion Ratio Lower Upper

168 100

99 72.3 59.0 88.4



Abundance Ion 168.00 (167.70 to 168.70): VT0

Ion 99.00 (98.70 to 99.70): VT0

7.44

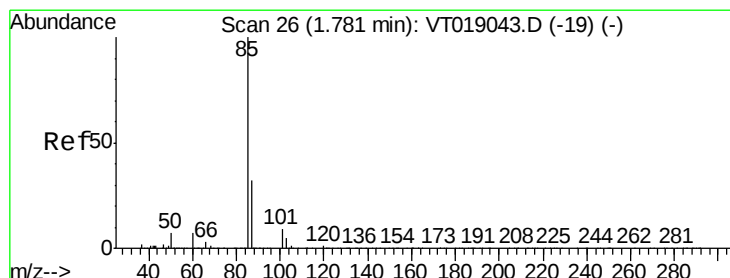
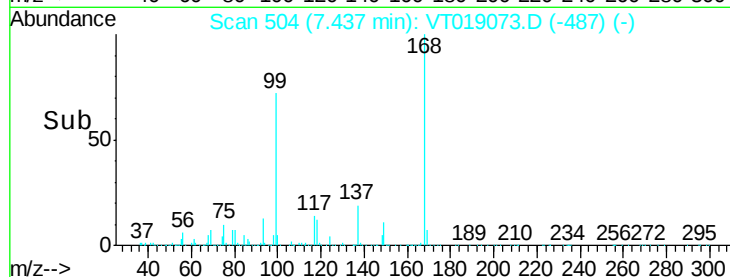
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 2.49 ug/l

RT: 1.78 min Scan# 26

Delta R.T. -0.00 min

Lab File: VT019073.D

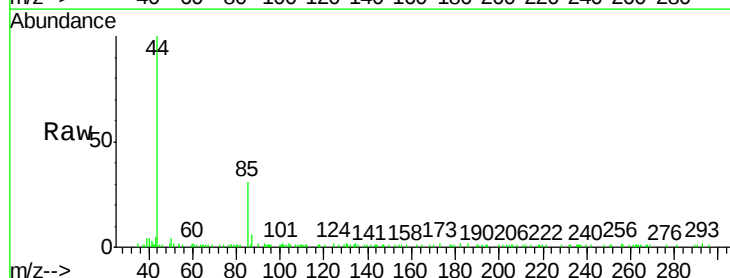
Acq: 10 May 2018 13:45

Tgt Ion: 85 Resp: 26205

Ion Ratio Lower Upper

85 100

87 20.1 16.3 48.8



Abundance Ion 85.00 (84.70 to 85.70): VT0

Ion 87.00 (86.70 to 87.70): VT0

1.78

8000

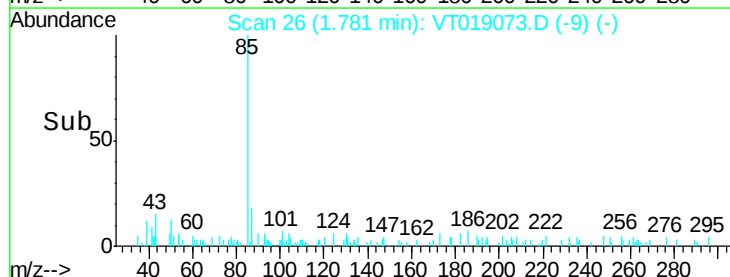
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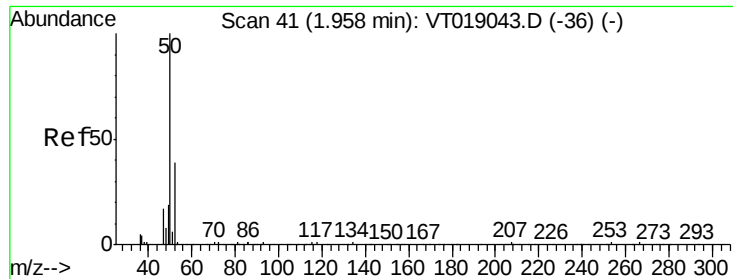
4000

2000

0

Time-->





#3

Chloromethane

Concen: 2.62 ug/l

RT: 1.96 min Scan# 41

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

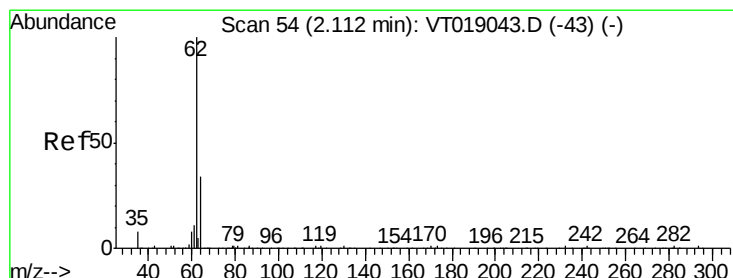
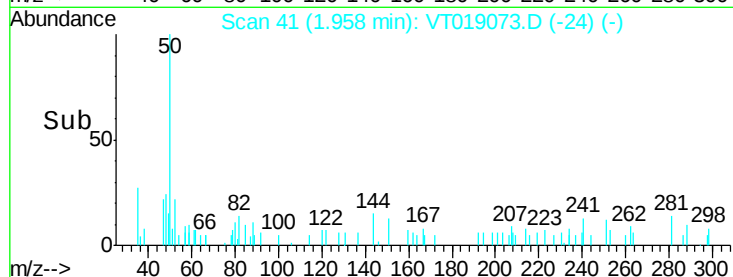
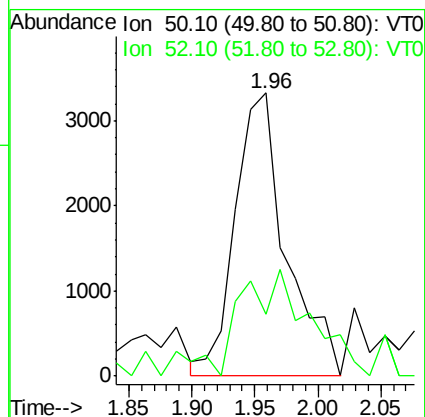
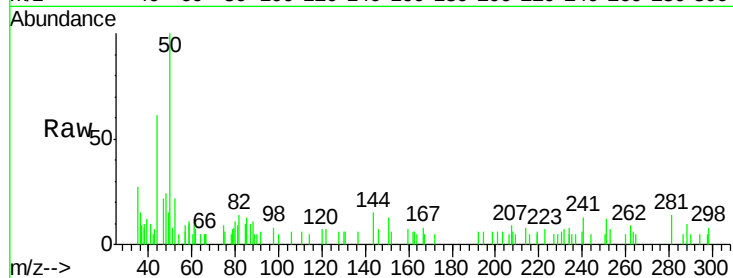
MDL-SOIL-03-QT2-2018DL

Tot Ion: 50 Resp: 9386

Ion Ratio Lower Upper

50 100

52 22.0 30.1 45.1#



#4

Vinyl Chloride

Concen: 1.88 ug/l

RT: 2.10 min Scan# 53

Delta R.T. -0.01 min

Lab File: VT019073.D

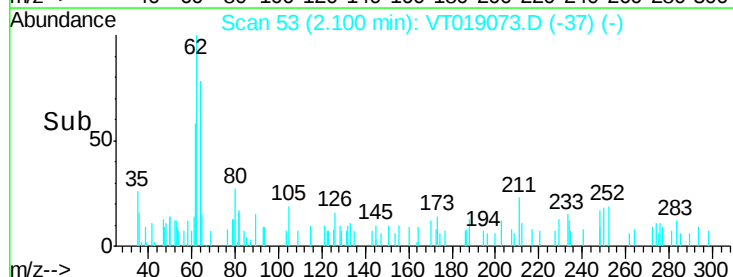
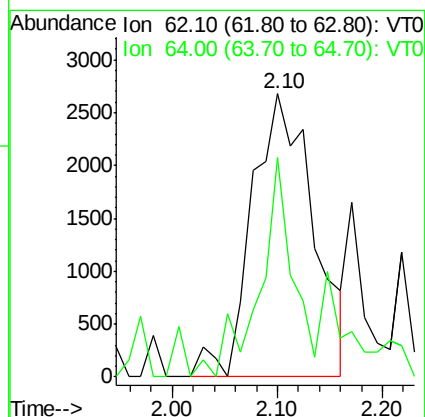
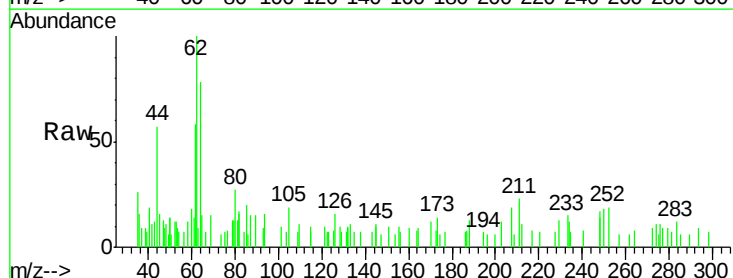
Acq: 10 May 2018 13:45

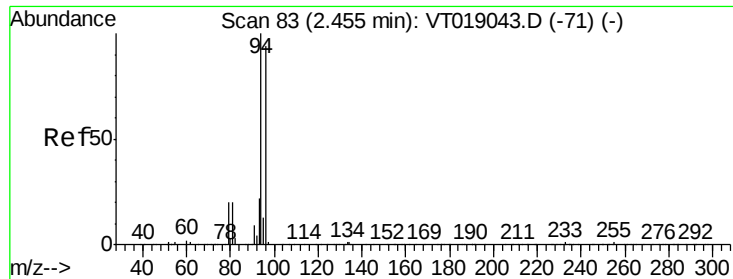
Tgt Ion: 62 Resp: 10872

Ion Ratio Lower Upper

62 100

64 77.5 27.0 40.4#





#5

Bromomethane

Concen: 2.99 ug/l

RT: 2.46 min Scan# 83

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

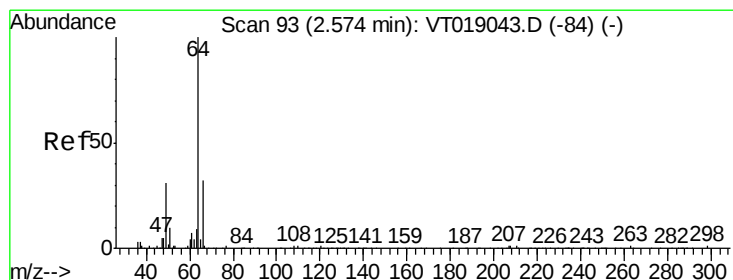
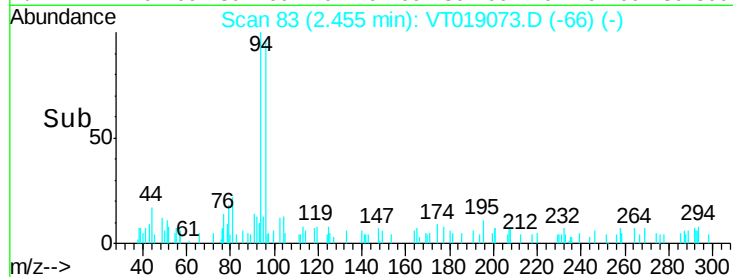
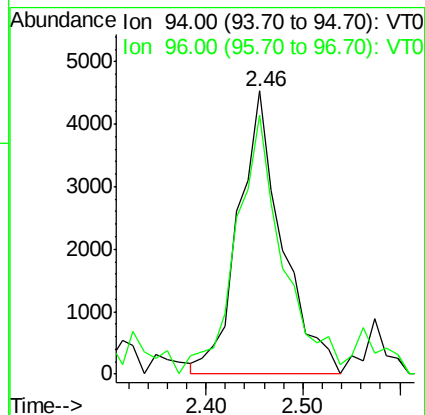
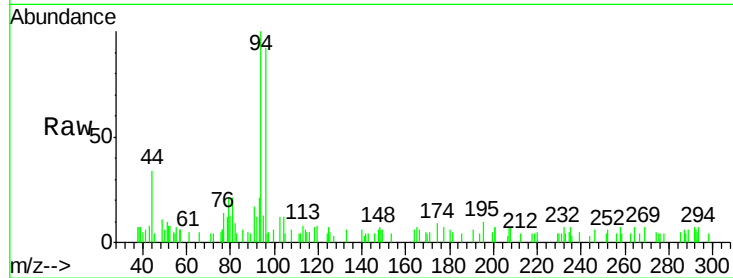
MDL-SOIL-03-QT2-2018DL

Tot Ion: 94 Resp: 14142

Ion Ratio Lower Upper

94 100

96 91.6 75.3 112.9



#6

Chloroethane

Concen: 2.86 ug/l

RT: 2.59 min Scan# 94

Delta R.T. 0.01 min

Lab File: VT019073.D

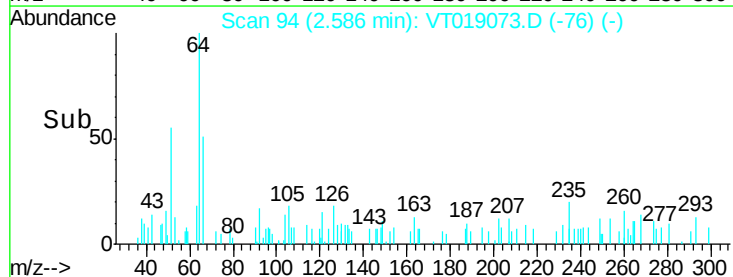
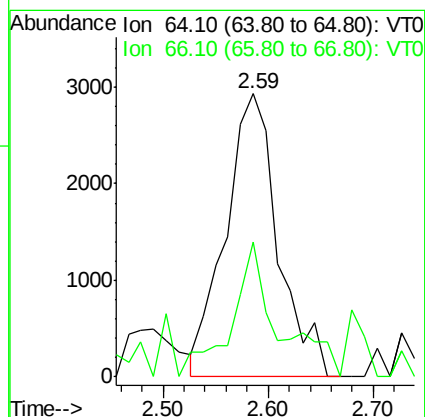
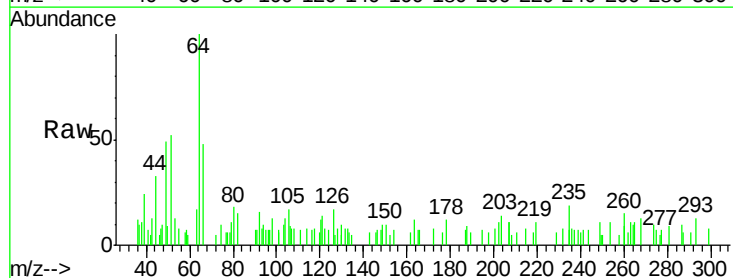
Acq: 10 May 2018 13:45

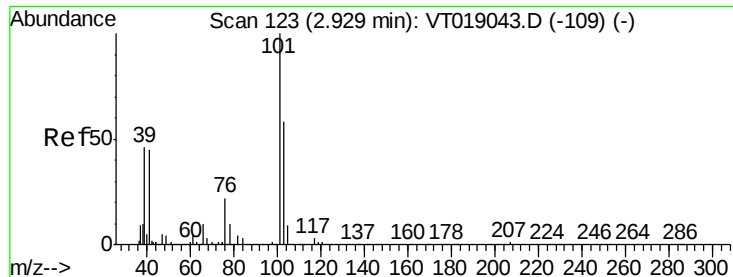
Tgt Ion: 64 Resp: 10174

Ion Ratio Lower Upper

64 100

66 47.8 25.8 38.8#



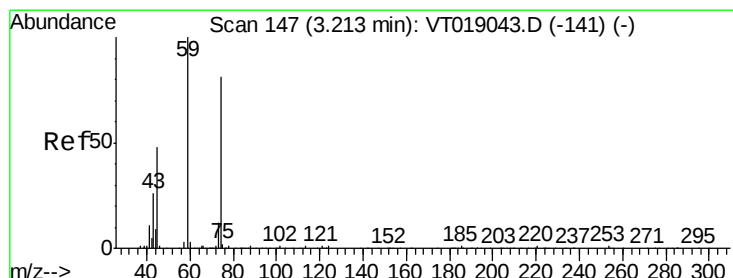
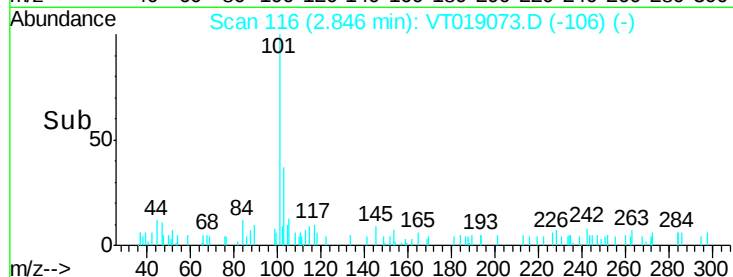
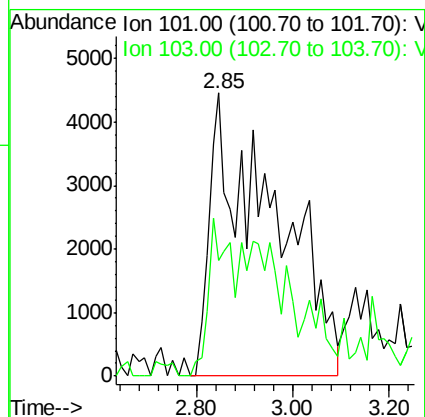
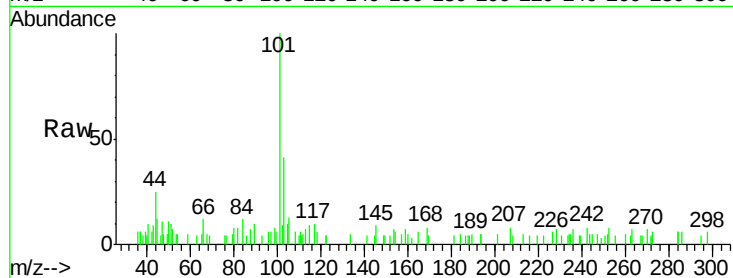


#7

Trichlorofluoromethane
 Concen: 2.64 ug/l m
 RT: 2.85 min Scan# 116
 Delta R.T. -0.08 min
 Lab File: VT019073.D
 Acq: 10 May 2018 13:45

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 MDL-SOIL-03-QT2-2018DL

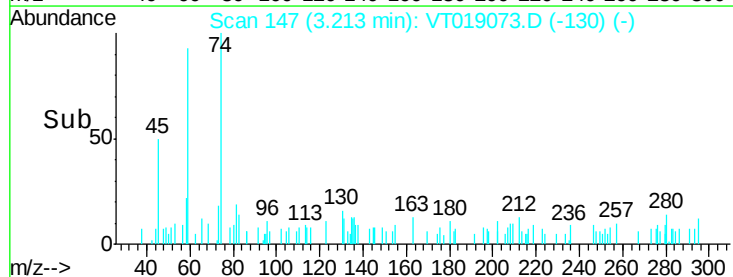
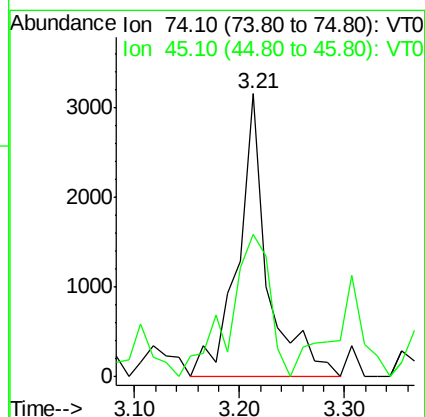
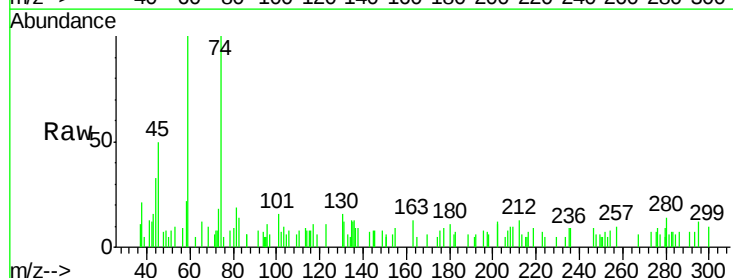
Tot Ion:101 Resp: 41081
 Ion Ratio Lower Upper
 101 100
 103 41.1 46.5 69.7#

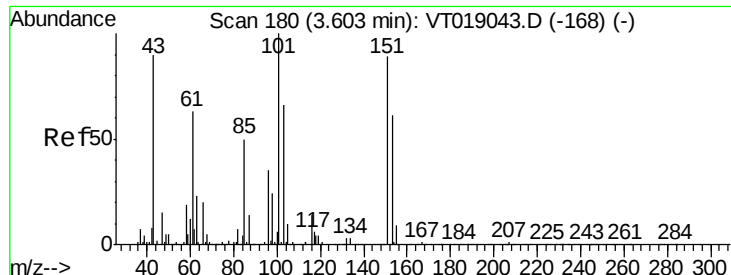


#8

Diethyl Ether
 Concen: 2.61 ug/l
 RT: 3.21 min Scan# 147
 Delta R.T. -0.00 min
 Lab File: VT019073.D
 Acq: 10 May 2018 13:45

Tgt Ion: 74 Resp: 6158
 Ion Ratio Lower Upper
 74 100
 45 50.4 29.8 89.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.80 ug/l

RT: 3.60 min Scan# 180

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

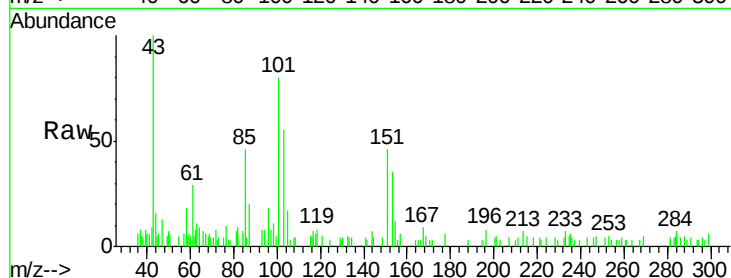
Tot Ion:101 Resp: 21086

Ion Ratio Lower Upper

101 100

85 58.3 39.5 59.3

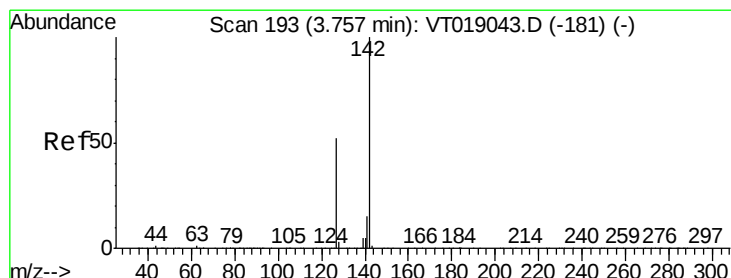
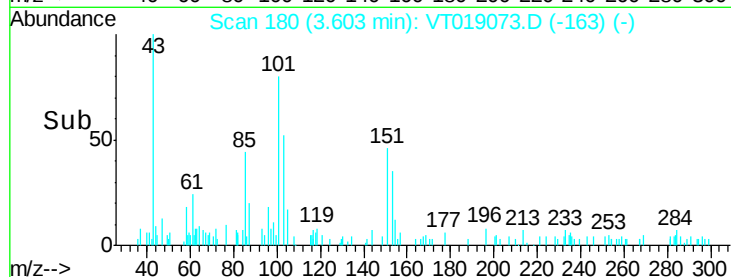
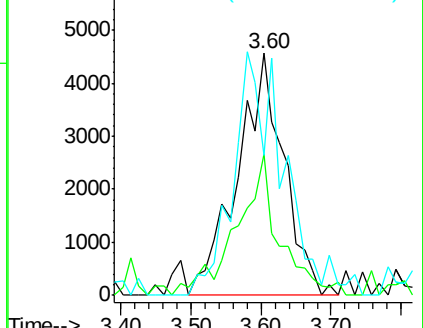
151 57.8 69.9 104.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VT0

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 2.64 ug/l

RT: 3.78 min Scan# 195

Delta R.T. 0.02 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

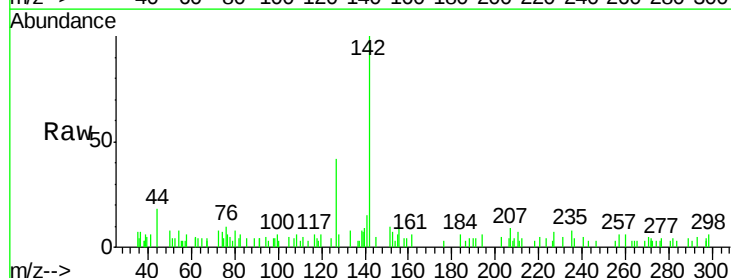
Tgt Ion:142 Resp: 28839

Ion Ratio Lower Upper

142 100

127 41.8 41.8 62.8#

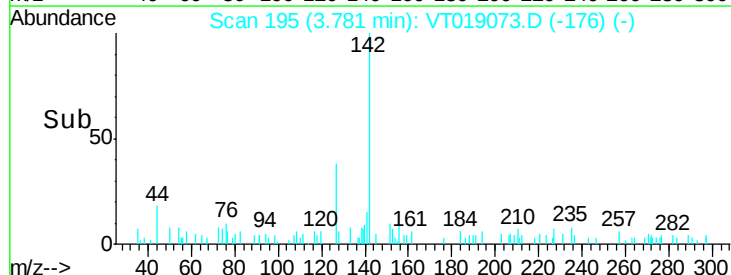
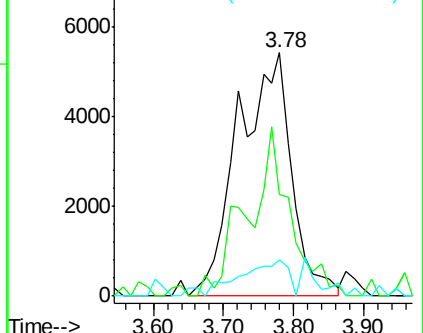
141 15.0 12.0 18.0

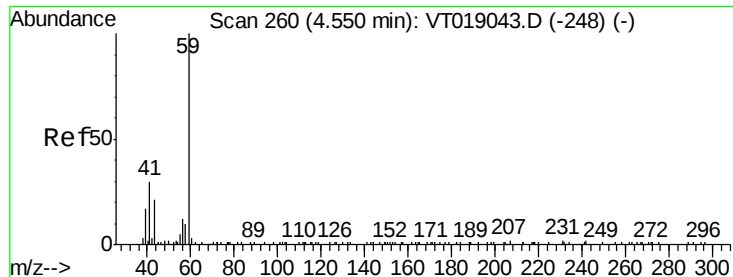


Abundance Ion 141.90 (141.60 to 142.60): V

Ion 126.90 (126.60 to 127.60): V

Ion 140.90 (140.60 to 141.60): V

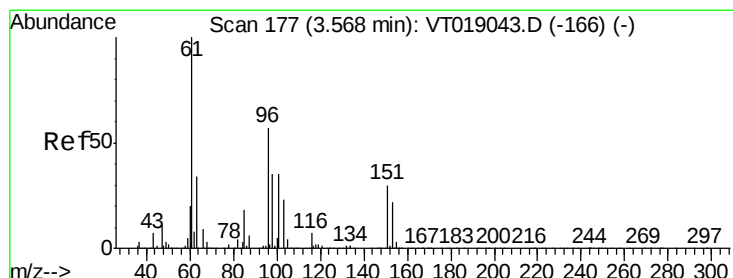
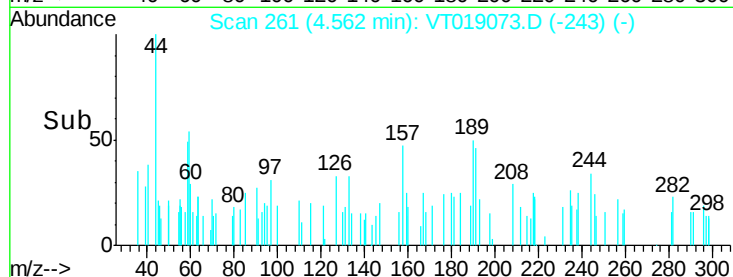
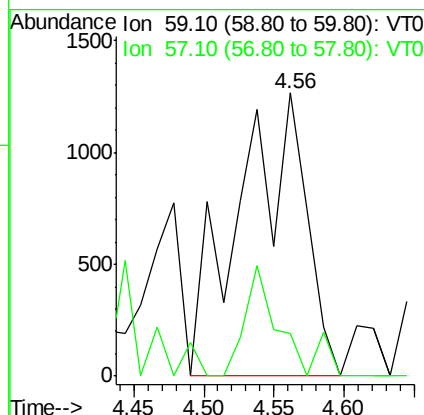
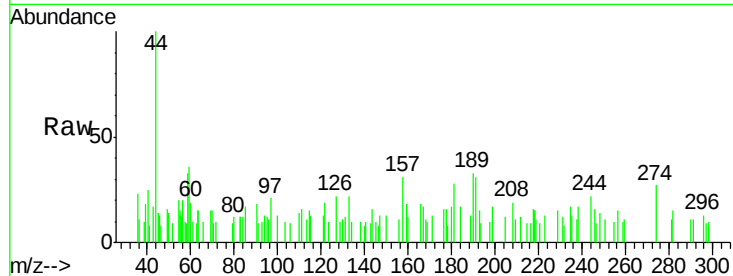




#11
Tert butyl alcohol
Concen: 10.61 ug/l
RT: 4.56 min Scan# 261
Delta R.T. 0.01 min
Lab File: VT019073.D
Acq: 10 May 2018 13:45

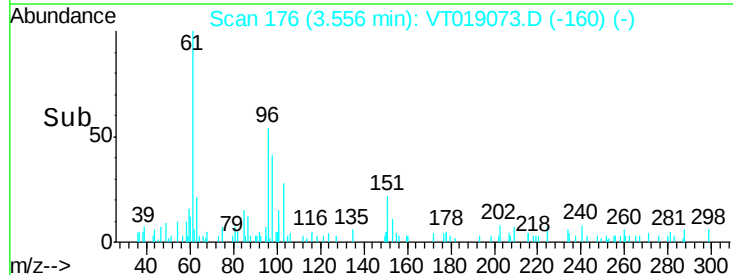
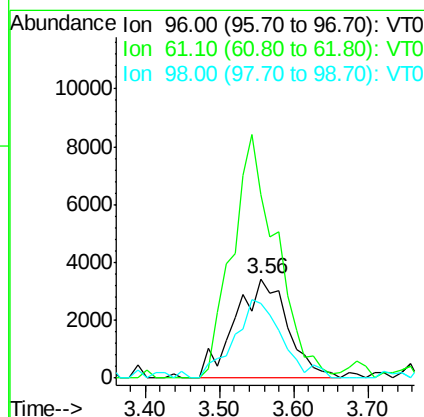
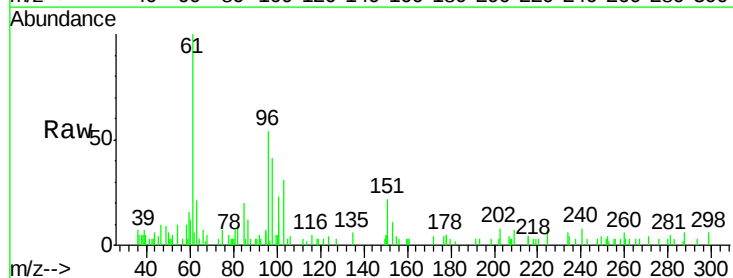
Instrument :
MSVOA_T
ClientSampleId :
MDL-SOIL-03-QT2-2018DL

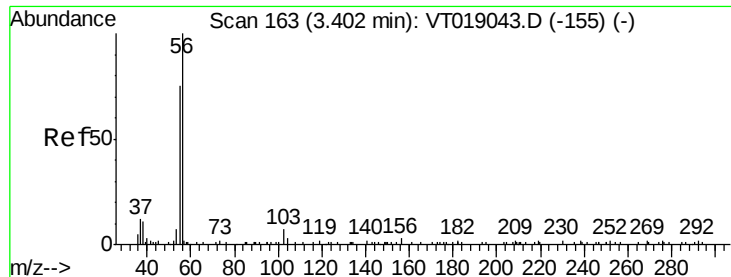
Tot Ion: 59 Resp: 4185
Ion Ratio Lower Upper
59 100
57 15.1 7.7 11.5#



#12
1,1-Dichloroethene
Concen: 2.53 ug/l
RT: 3.56 min Scan# 176
Delta R.T. -0.01 min
Lab File: VT019073.D
Acq: 10 May 2018 13:45

Tgt Ion: 96 Resp: 16939
Ion Ratio Lower Upper
96 100
61 184.1 139.4 209.2
98 75.6 49.4 74.2#





#13

Acrolein

Concen: 17.83 ug/l

RT: 3.39 min Scan# 162

Delta R.T. -0.01 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

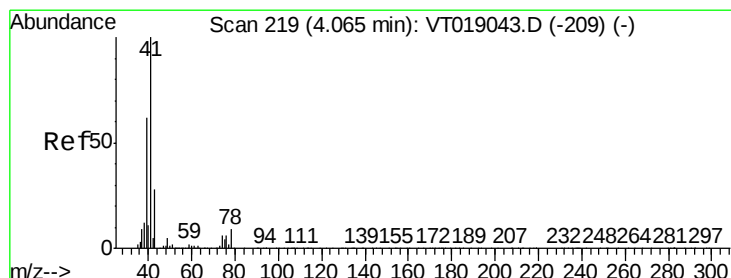
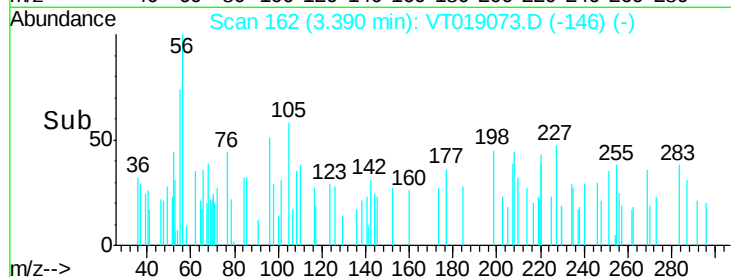
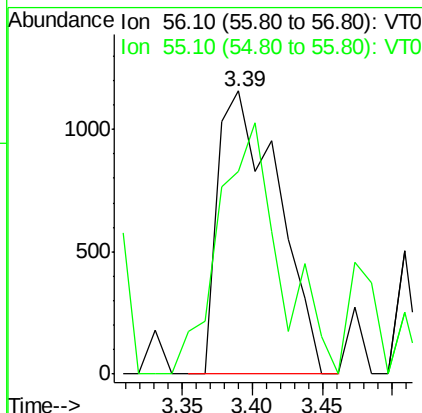
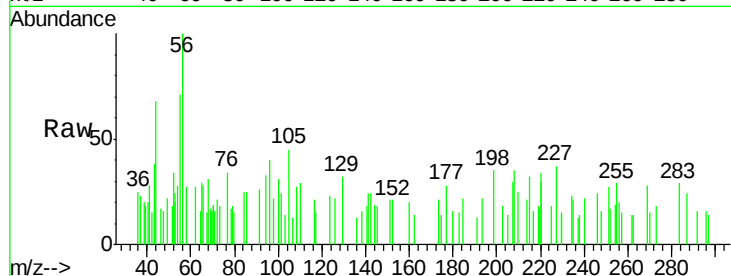
MDL-SOIL-03-QT2-2018DL

Tot Ion: 56 Resp: 3431

Ion Ratio Lower Upper

56 100

55 71.4 60.8 91.2



#14

Allyl chloride

Concen: 2.13 ug/l

RT: 4.06 min Scan# 219

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

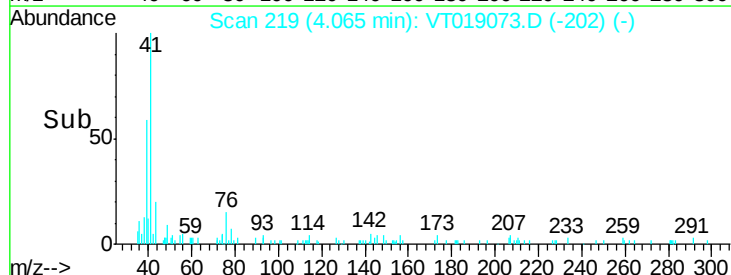
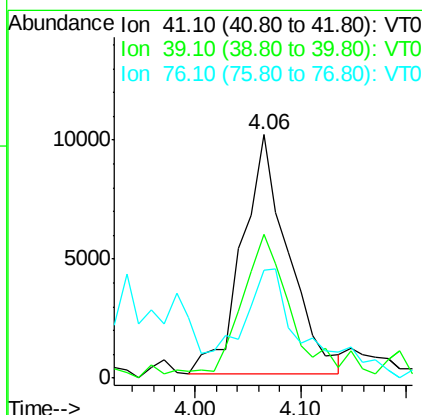
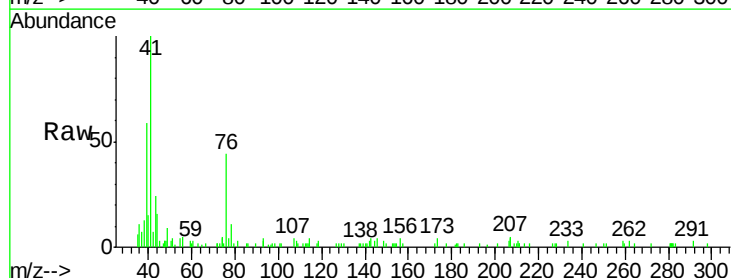
Tgt Ion: 41 Resp: 30720

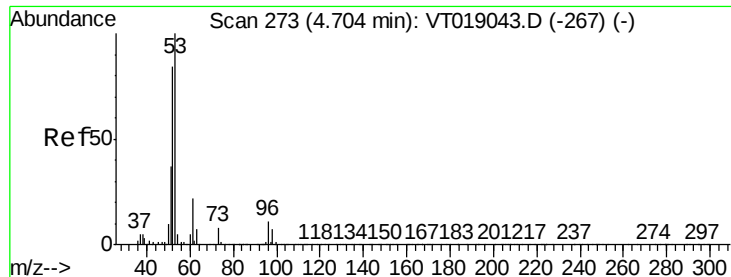
Ion Ratio Lower Upper

41 100

39 59.3 49.5 74.3

76 44.5 44.0 66.0





#15

Acrylonitrile

Concen: 11.56 ug/l

RT: 4.72 min Scan# 274

Delta R.T. 0.01 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

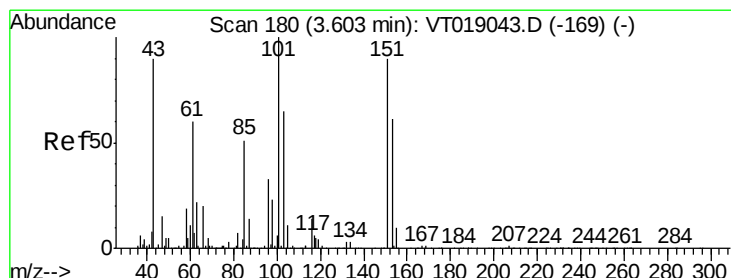
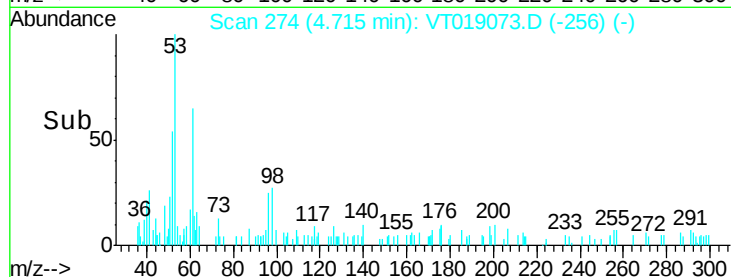
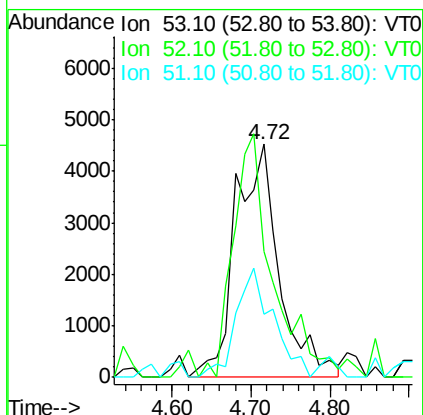
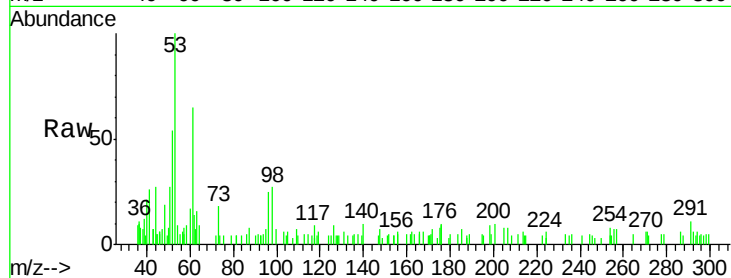
Tot Ion: 53 Resp: 17557

Ion Ratio Lower Upper

53 100

52 53.8 67.4 101.0#

51 27.1 29.6 44.4#



#16

Acetone

Concen: 17.83 ug/l

RT: 3.60 min Scan# 180

Delta R.T. -0.00 min

Lab File: VT019073.D

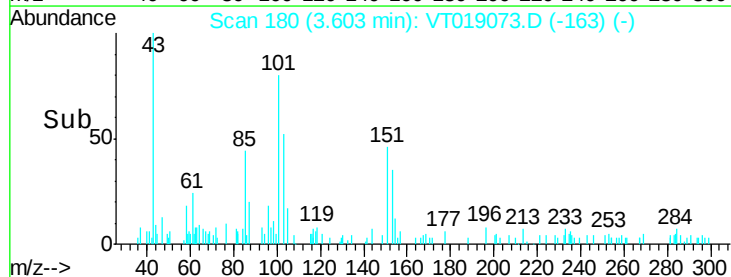
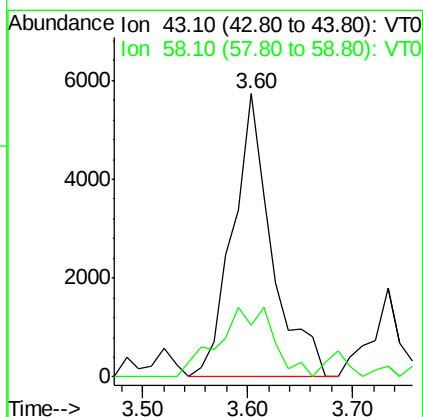
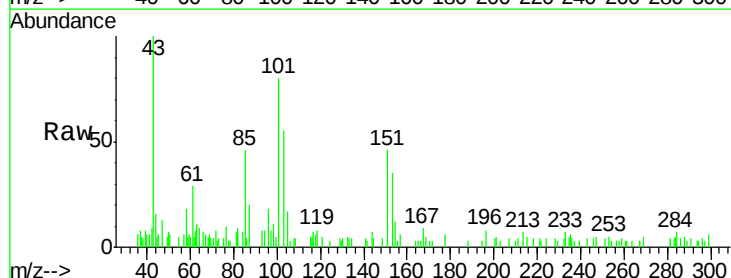
Acq: 10 May 2018 13:45

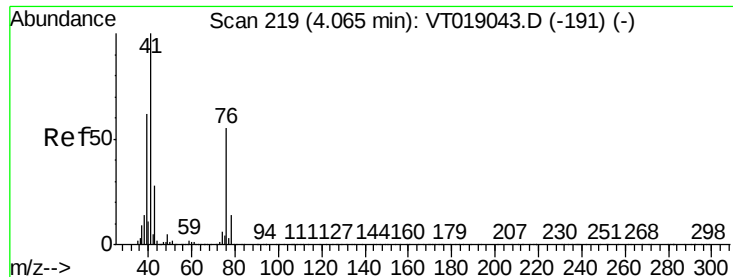
Tgt Ion: 43 Resp: 14752

Ion Ratio Lower Upper

43 100

58 18.5 16.7 25.1





#17

Carbon Disulfide

Concen: 2.12 ug/l m

RT: 3.89 min Scan# 204

Delta R.T. -0.18 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

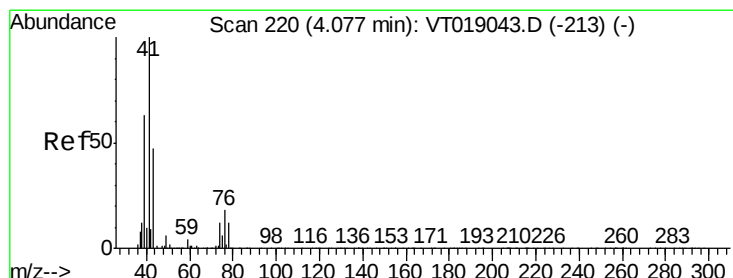
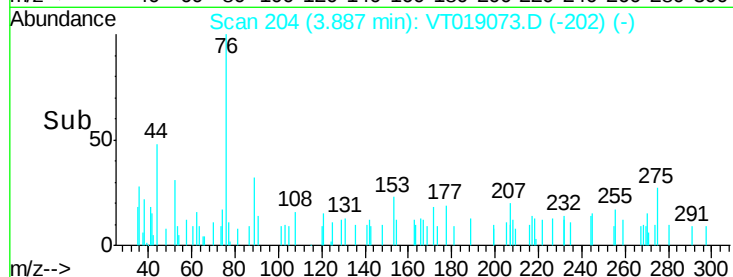
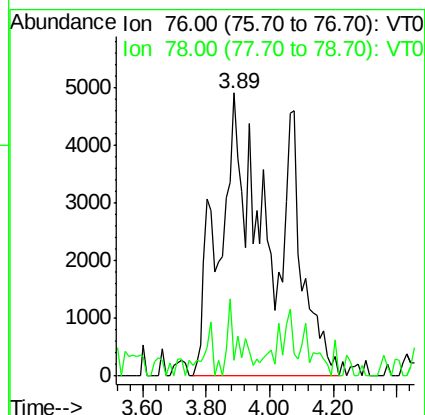
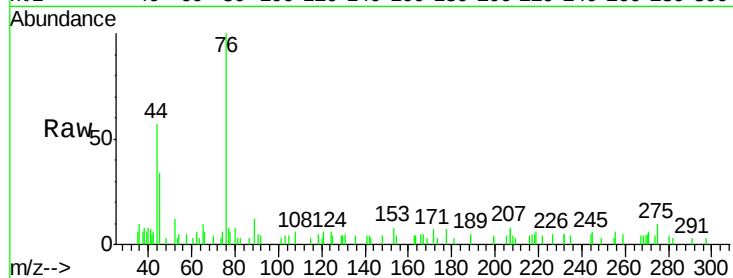
MDL-SOIL-03-QT2-2018DL

Tot Ion: 76 Resp: 58686

Ion Ratio Lower Upper

76 100

78 5.8 19.8 29.8#



#18

Methyl Acetate

Concen: 2.05 ug/l

RT: 4.08 min Scan# 220

Delta R.T. -0.00 min

Lab File: VT019073.D

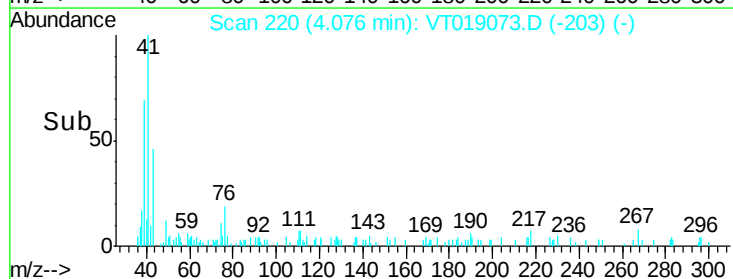
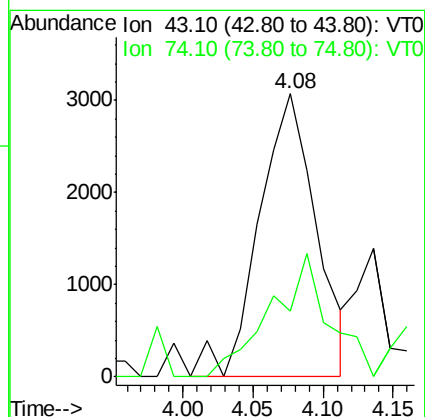
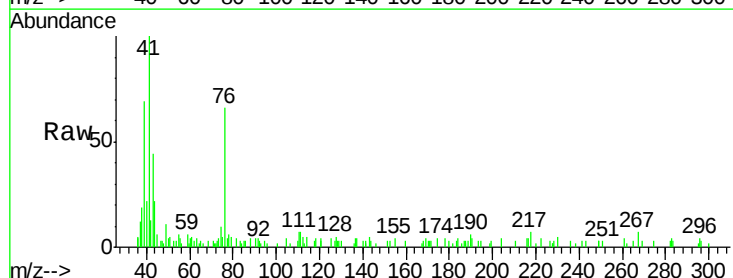
Acq: 10 May 2018 13:45

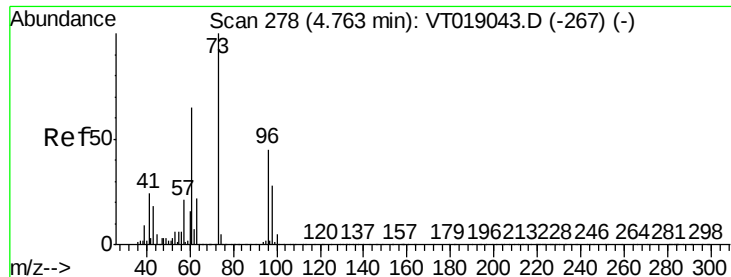
Tgt Ion: 43 Resp: 8697

Ion Ratio Lower Upper

43 100

74 23.3 19.8 29.8



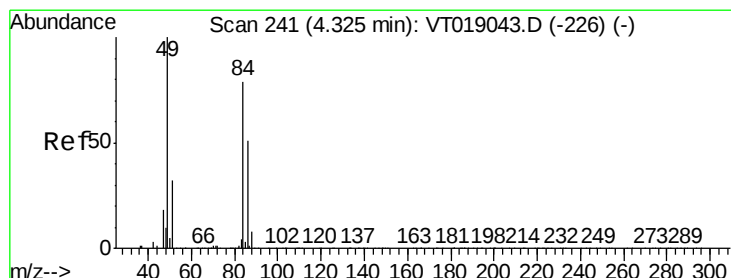
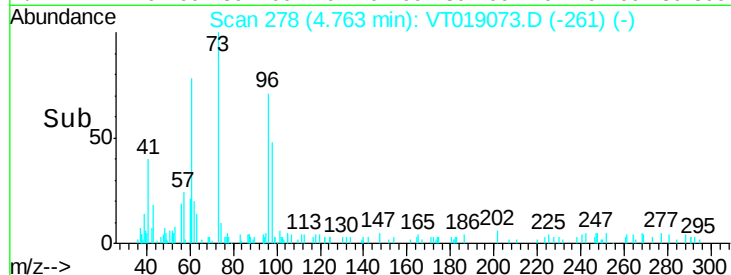
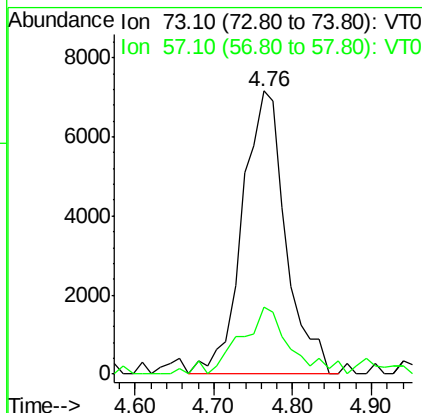
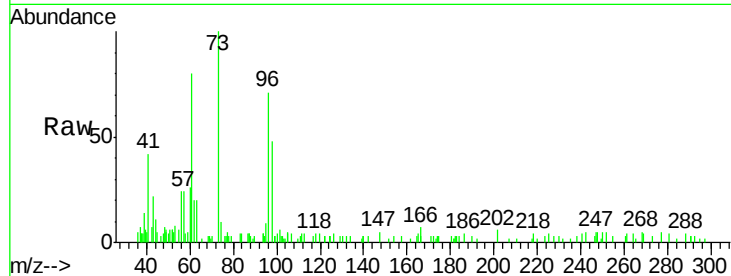


#19

Methyl tert-butyl Ether
 Concen: 1.63 ug/l
 RT: 4.76 min Scan# 278
 Delta R.T. -0.00 min
 Lab File: VT019073.D
 Acq: 10 May 2018 13:45

Instrument :
 MSVOA_T
 ClientSampleId :
 MDL-SOIL-03-QT2-2018DL

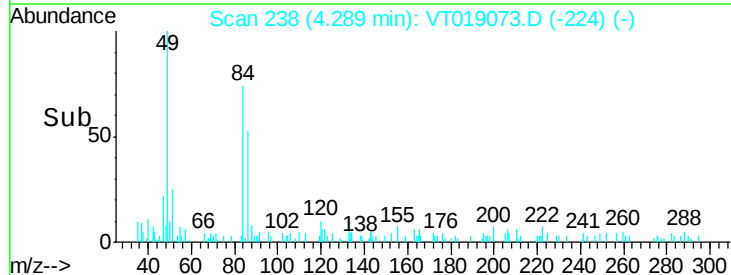
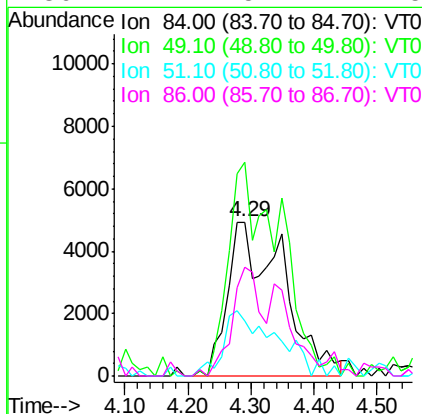
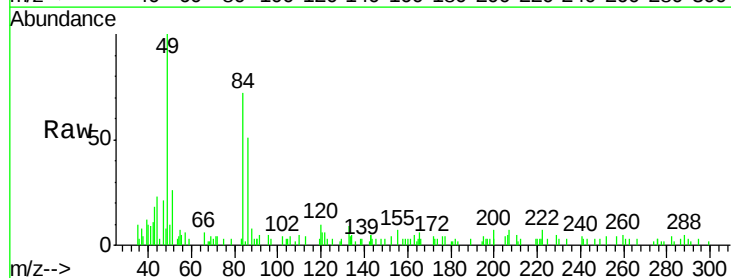
Tot Ion: 73 Resp: 27430
 Ion Ratio Lower Upper
 73 100
 57 23.6 16.6 25.0

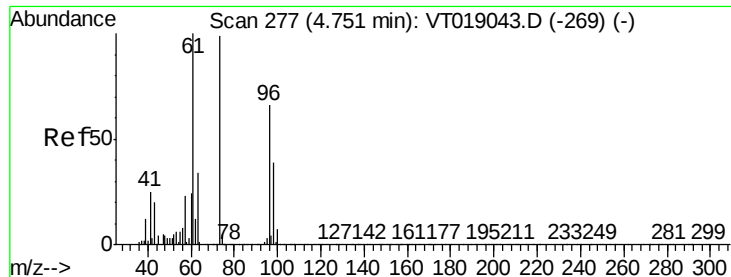


#20

Methylene Chloride
 Concen: 3.36 ug/l m
 RT: 4.29 min Scan# 238
 Delta R.T. -0.04 min
 Lab File: VT019073.D
 Acq: 10 May 2018 13:45

Tgt Ion: 84 Resp: 29909
 Ion Ratio Lower Upper
 84 100
 49 139.0 103.0 154.4
 51 36.2 33.3 49.9
 86 71.2 51.7 77.5





#21

trans-1,2-Dichloroethene

Concen: 2.24 ug/l

RT: 4.74 min Scan# 276

Delta R.T. -0.01 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

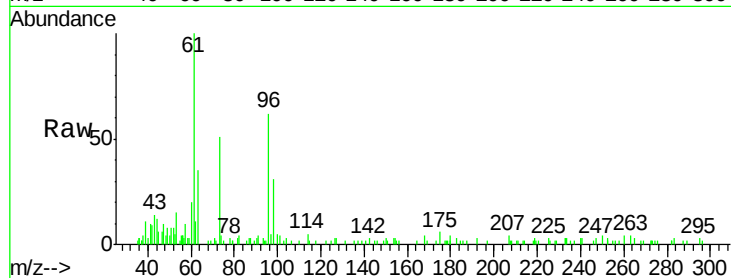
Tot Ion: 96 Resp: 22107

Ion Ratio Lower Upper

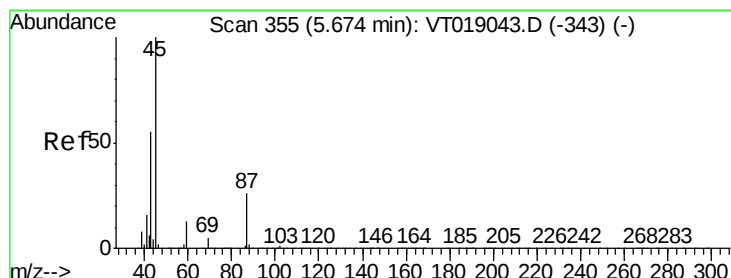
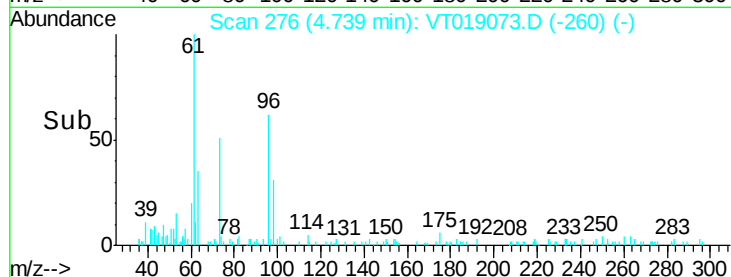
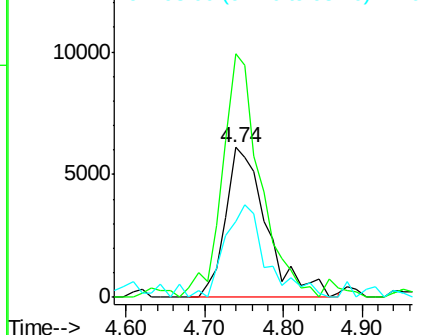
96 100

61 162.3 120.8 181.2

98 50.9 47.4 71.2



Abundance Ion 96.00 (95.70 to 96.70): VT0
Ion 61.00 (60.70 to 61.70): VT0
Ion 98.00 (97.70 to 98.70): VT0



#22

Diisopropyl ether

Concen: 1.80 ug/l

RT: 5.69 min Scan# 356

Delta R.T. 0.01 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Tgt Ion: 45 Resp: 48261

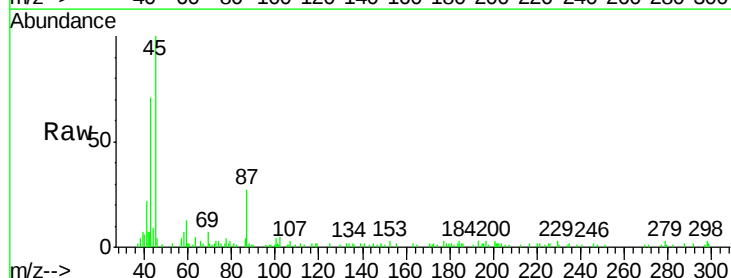
Ion Ratio Lower Upper

45 100

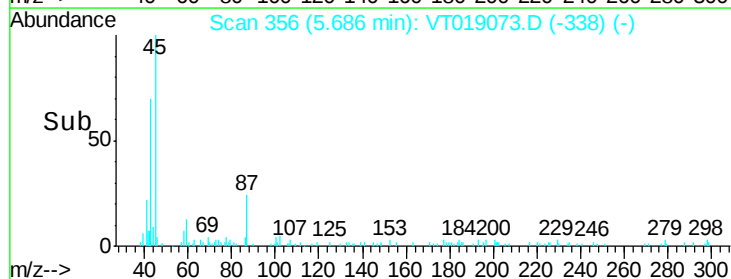
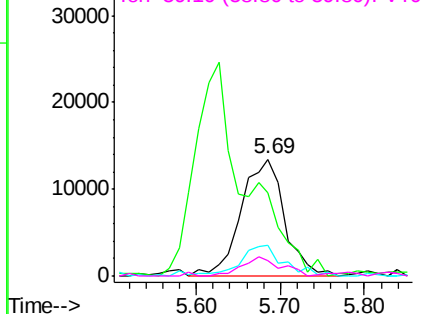
43 71.3 43.8 65.6#

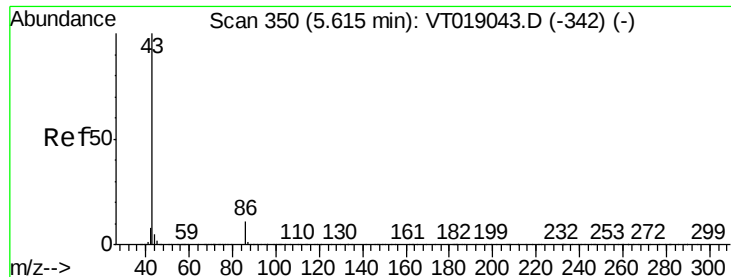
87 26.6 20.8 31.2

59 15.1 10.2 15.4



Abundance Ion 45.10 (44.80 to 45.80): VT0
Ion 43.10 (42.80 to 43.80): VT0
Ion 87.10 (86.80 to 87.80): VT0
Ion 59.10 (58.80 to 59.80): VT0





#23

Vinyl Acetate

Concen: 8.70 ug/l

RT: 5.63 min Scan# 351

Delta R.T. 0.01 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

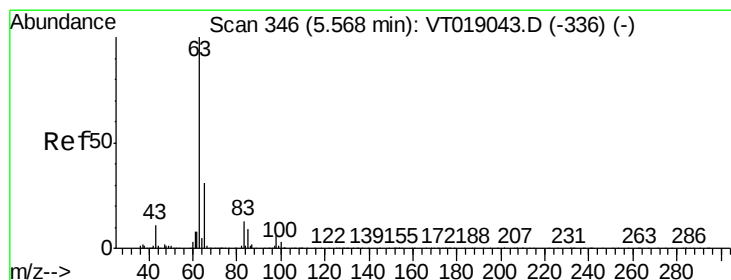
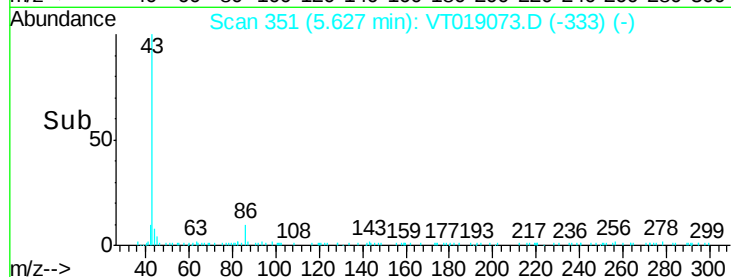
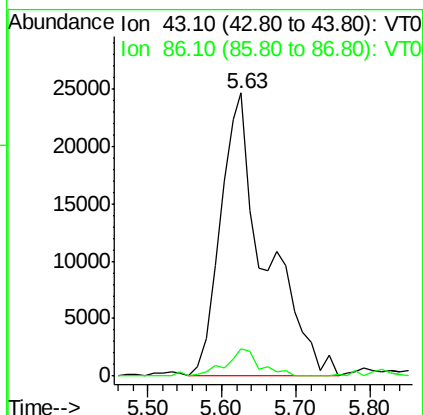
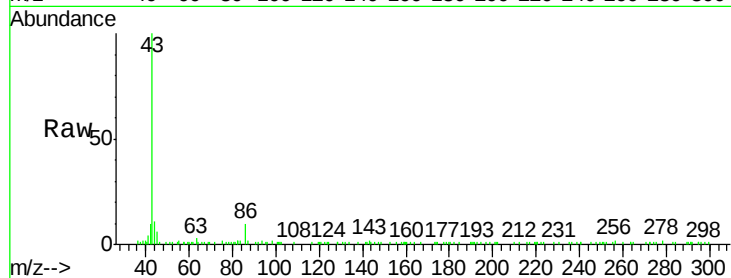
MDL-SOIL-03-QT2-2018DL

Tot Ion: 43 Resp: 103441

Ion Ratio Lower Upper

43 100

86 9.6 8.6 13.0



#24

1,1-Dichloroethane

Concen: 2.36 ug/l

RT: 5.57 min Scan# 346

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

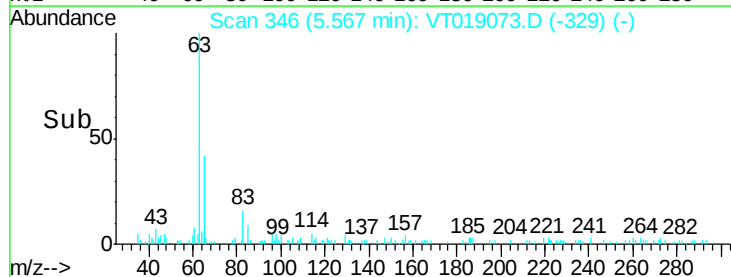
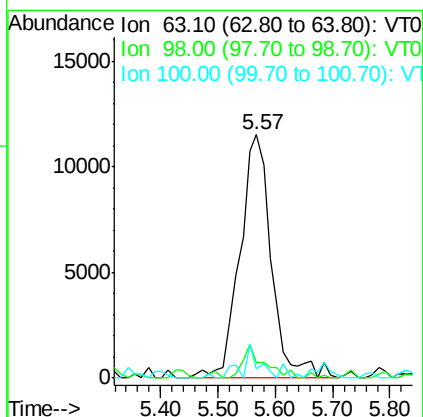
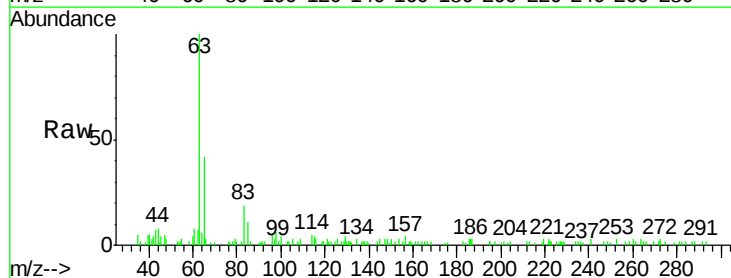
Tgt Ion: 63 Resp: 44215

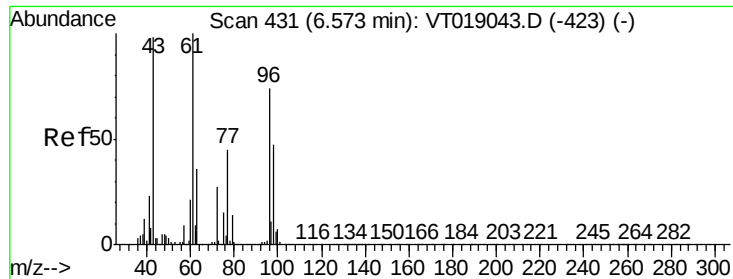
Ion Ratio Lower Upper

63 100

98 8.3 2.8 8.4

100 3.9 1.7 5.1





#25

2-Butanone

Concen: 11.61 ug/l

RT: 6.59 min Scan# 432

Delta R.T. 0.01 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

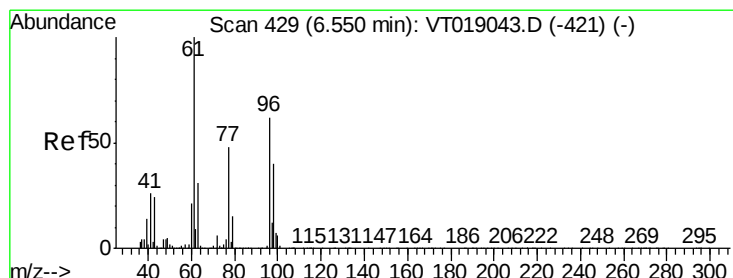
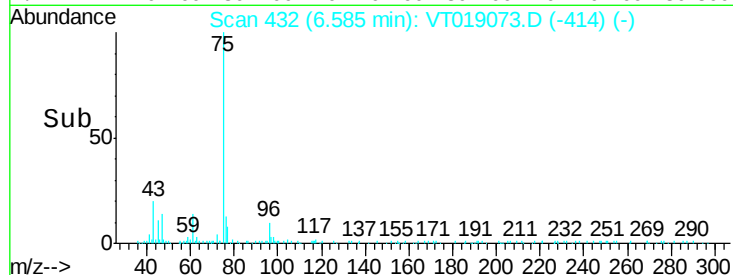
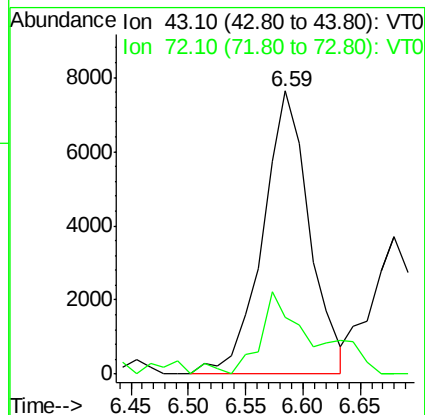
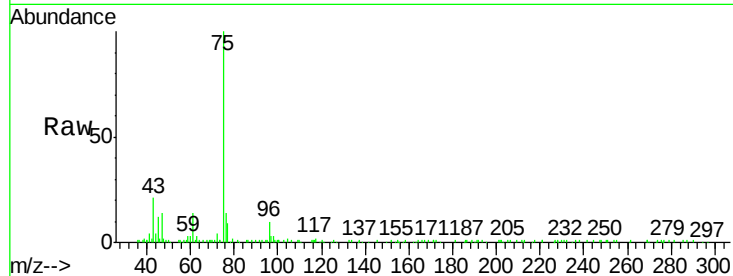
MDL-SOIL-03-QT2-2018DL

Tot Ion: 43 Resp: 21631

Ion Ratio Lower Upper

43 100

72 20.1 22.1 33.1#



#26

2,2-Dichloropropane

Concen: 2.47 ug/l

RT: 6.55 min Scan# 429

Delta R.T. -0.00 min

Lab File: VT019073.D

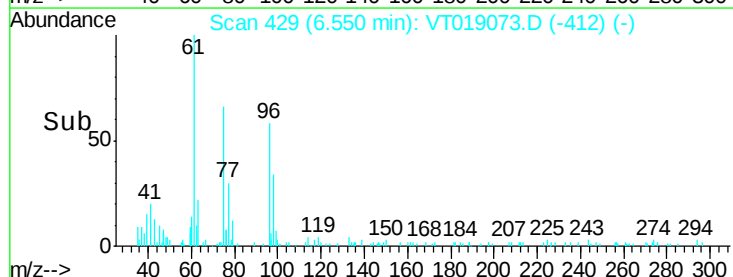
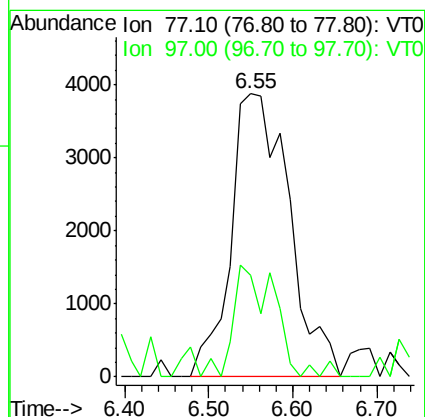
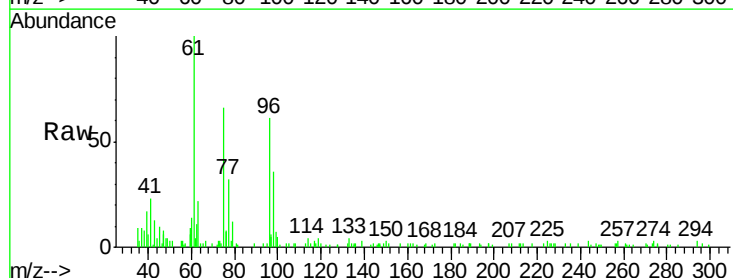
Acq: 10 May 2018 13:45

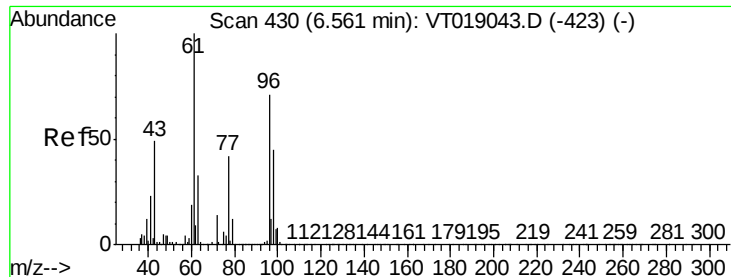
Tgt Ion: 77 Resp: 18642

Ion Ratio Lower Upper

77 100

97 35.9 12.2 36.4





#27

cis-1,2-Dichloroethene

Concen: 2.18 ug/l

RT: 6.55 min Scan# 429

Delta R.T. -0.01 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

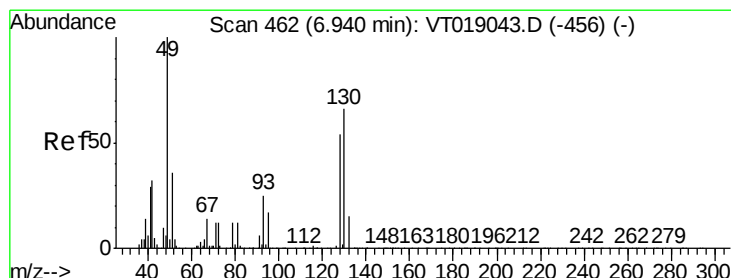
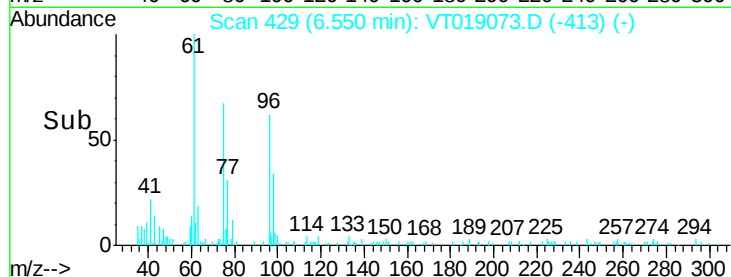
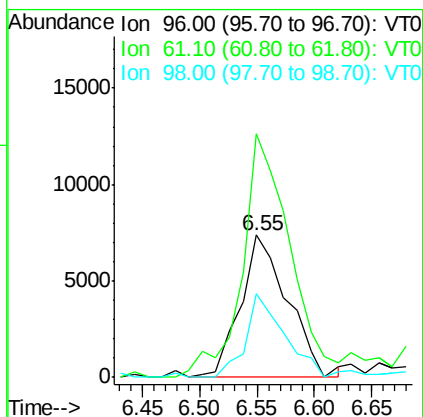
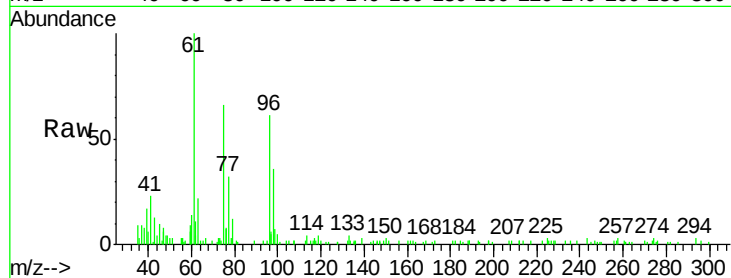
Tot Ion: 96 Resp: 21200

Ion Ratio Lower Upper

96 100

61 156.1 0.0 282.0

98 53.5 0.0 125.8



#28

Bromochloromethane

Concen: 2.32 ug/l

RT: 6.95 min Scan# 463

Delta R.T. 0.01 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

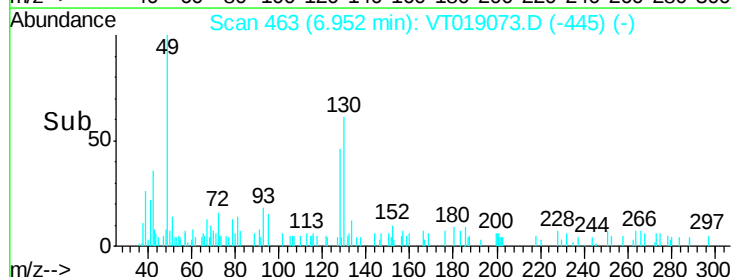
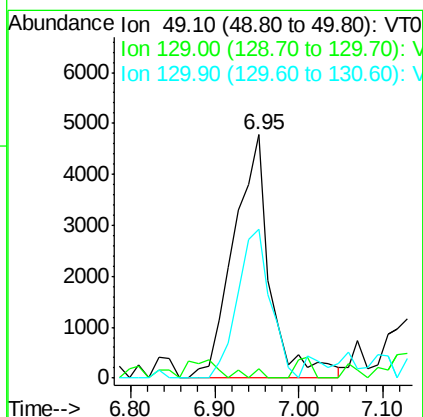
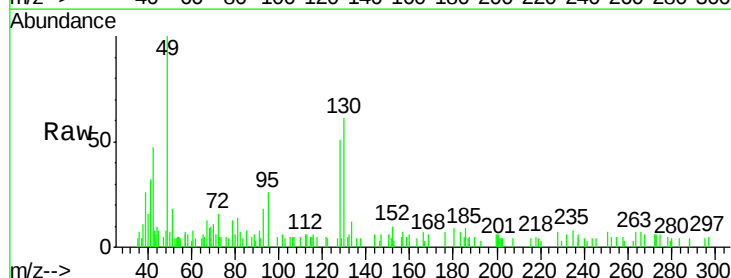
Tgt Ion: 49 Resp: 14423

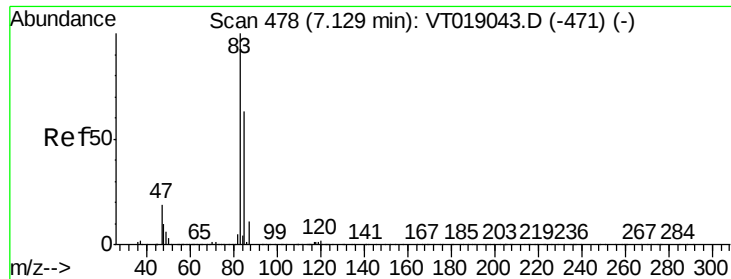
Ion Ratio Lower Upper

49 100

129 3.6 0.0 3.8

130 60.9 52.4 78.6

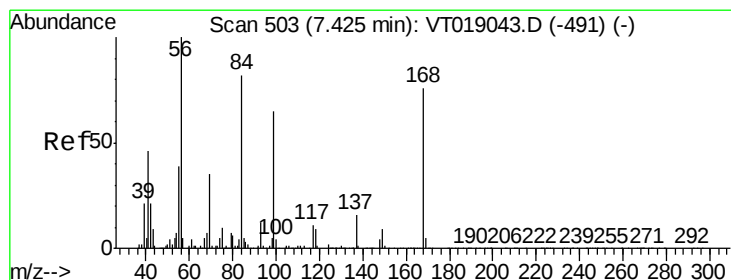
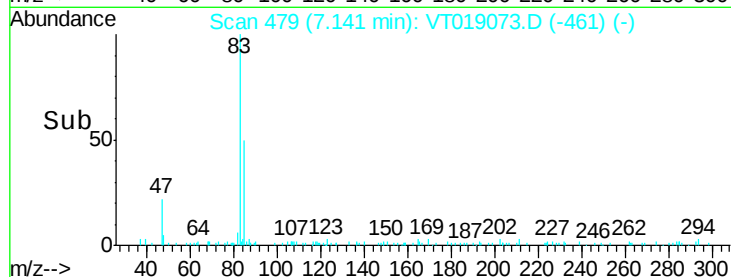
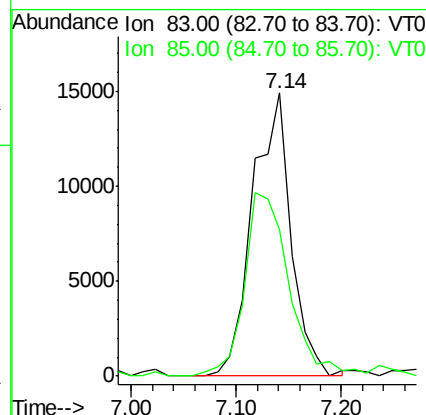
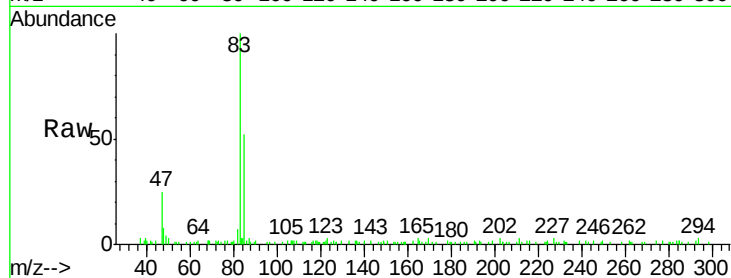




#29
Chloroform
Concen: 2.16 ug/l
RT: 7.14 min Scan# 479
Delta R.T. 0.01 min
Lab File: VT019073.D
Acq: 10 May 2018 13:45

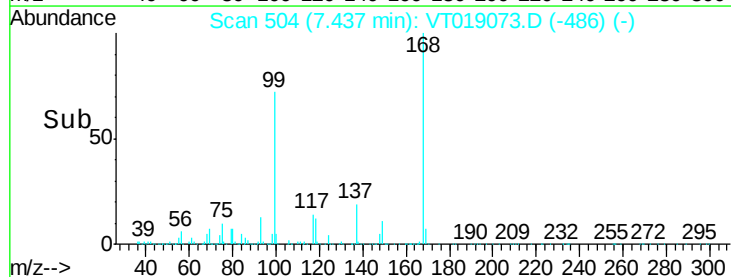
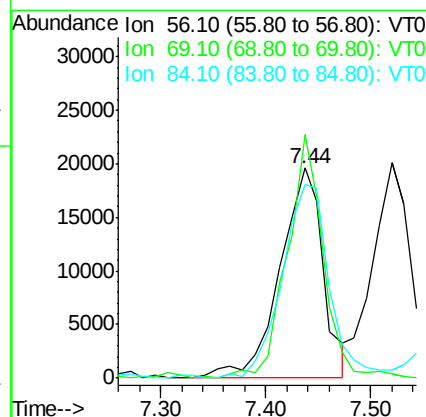
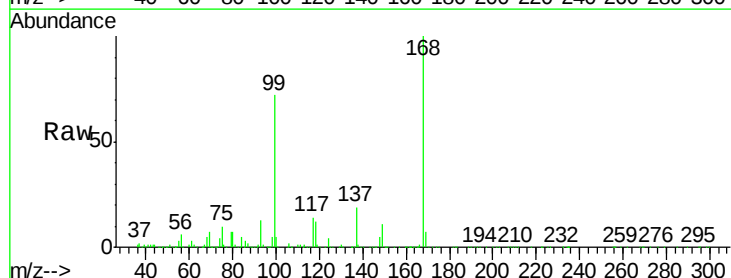
Instrument :
MSVOA_T
ClientSampleId :
MDL-SOIL-03-QT2-2018DL

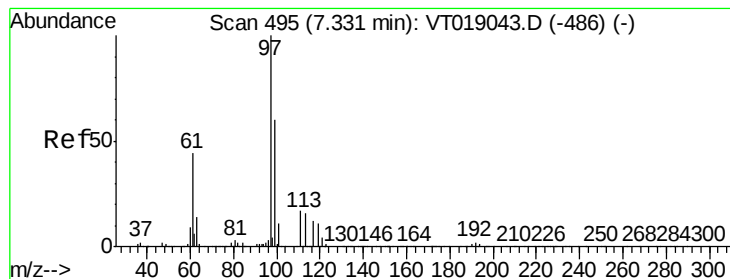
Tot Ion: 83 Resp: 37950
Ion Ratio Lower Upper
83 100
85 51.8 50.6 76.0



#30
Cyclohexane
Concen: 2.77 ug/l
RT: 7.44 min Scan# 504
Delta R.T. 0.01 min
Lab File: VT019073.D
Acq: 10 May 2018 13:45

Tgt Ion: 56 Resp: 56250
Ion Ratio Lower Upper
56 100
69 116.1 28.2 42.2#
84 92.6 65.6 98.4





#31

1,1,1-Trichloroethane

Concen: 2.30 ug/l

RT: 7.33 min Scan# 495

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

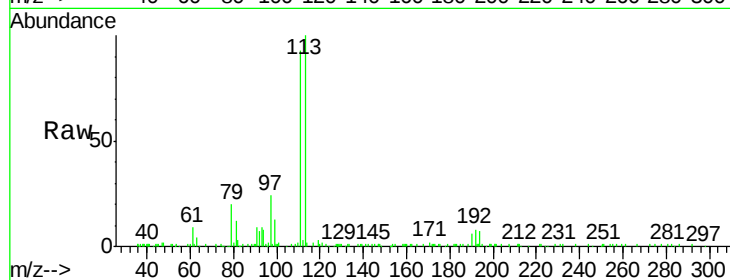
Tot Ion: 97 Resp: 31217

Ion Ratio Lower Upper

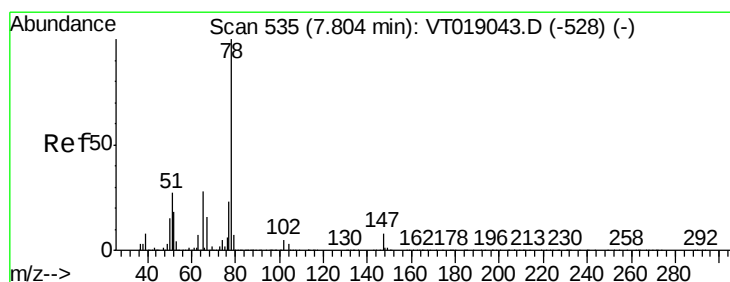
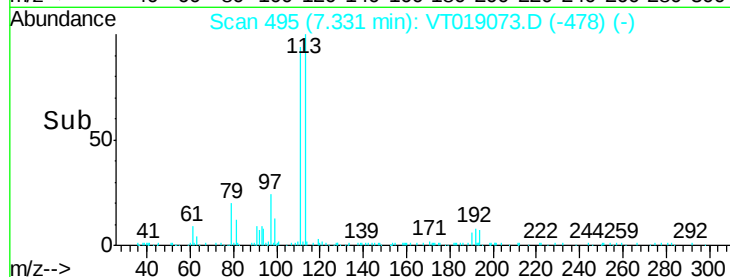
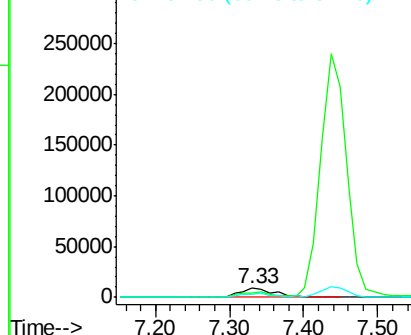
97 100

99 53.9 47.6 71.4

61 36.1 35.3 52.9



Abundance Ion 97.00 (96.70 to 97.70): VT0
Ion 99.00 (98.70 to 99.70): VT0
Ion 61.00 (60.70 to 61.70): VT0



#32

1,2-Dichloroethane-d4

Concen: 57.76 ug/l

RT: 7.80 min Scan# 535

Delta R.T. -0.00 min

Lab File: VT019073.D

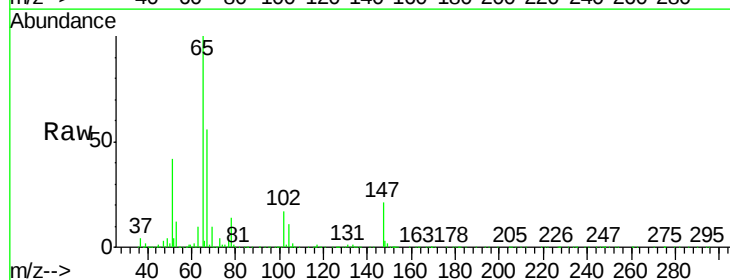
Acq: 10 May 2018 13:45

Tgt Ion: 65 Resp: 450274

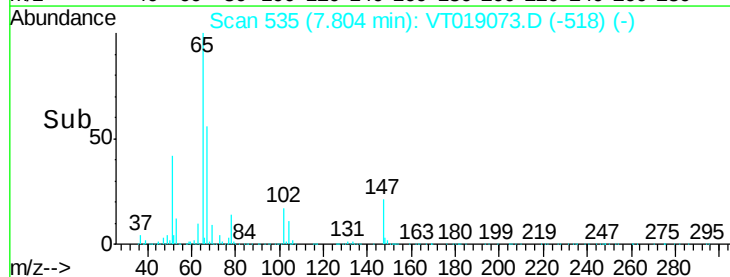
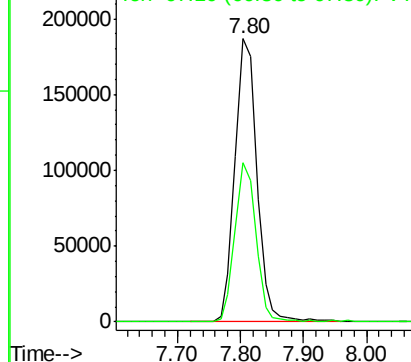
Ion Ratio Lower Upper

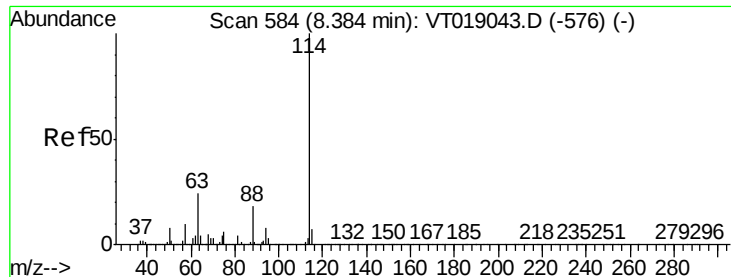
65 100

67 56.2 0.0 114.2



Abundance Ion 65.10 (64.80 to 65.80): VT0
Ion 67.10 (66.80 to 67.80): VT0





#33

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.38 min Scan# 584

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

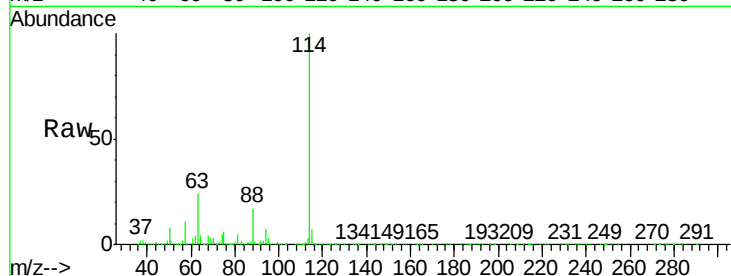
Tot Ion:114 Resp: 1481877

Ion Ratio Lower Upper

114 100

63 24.5 0.0 48.8

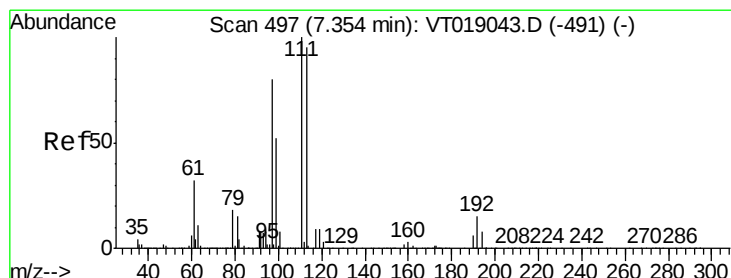
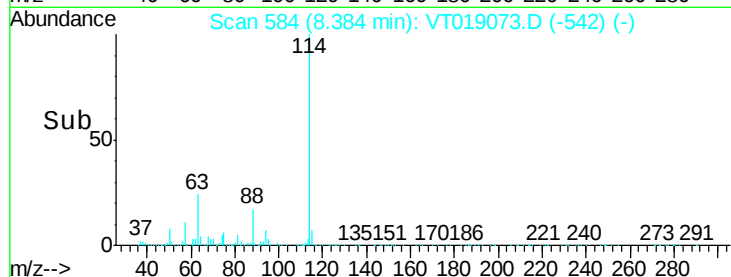
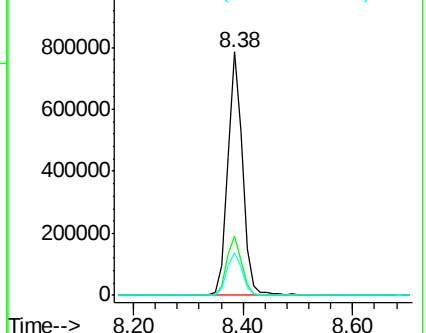
88 17.5 0.0 37.0



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VT0

Ion 88.10 (87.80 to 88.80): VT0



#34

Dibromofluoromethane

Concen: 52.07 ug/l

RT: 7.35 min Scan# 497

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

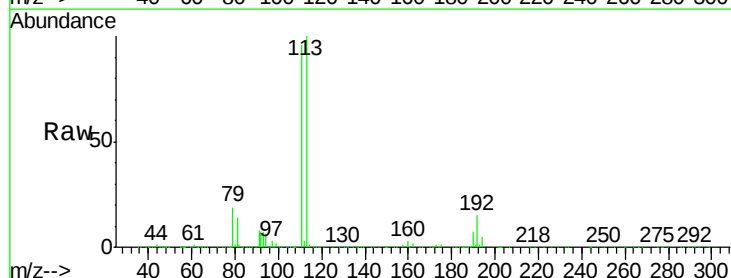
Tgt Ion:113 Resp: 432060

Ion Ratio Lower Upper

113 100

111 96.2 84.0 126.0

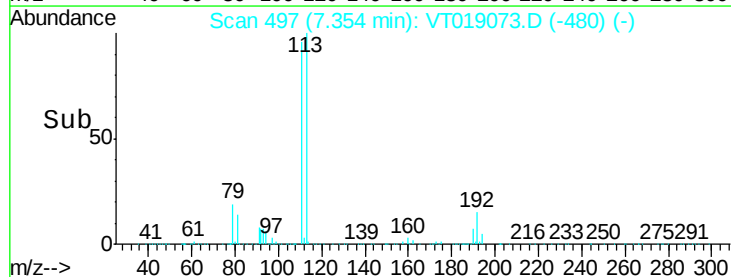
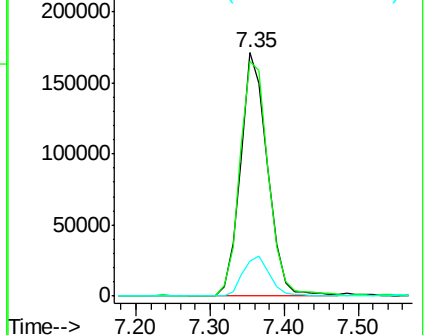
192 14.6 12.9 19.3

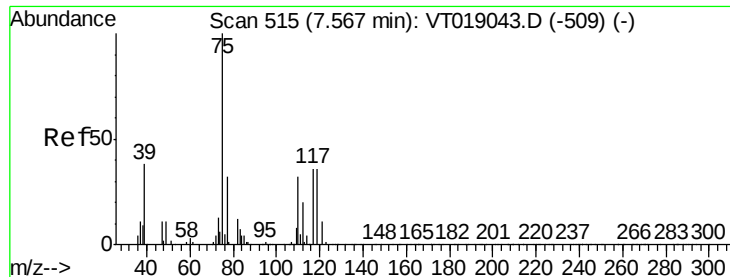


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V





#35

1,1-Dichloropropene

Concen: 1.90 ug/l

RT: 7.56 min Scan# 514

Delta R.T. -0.01 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

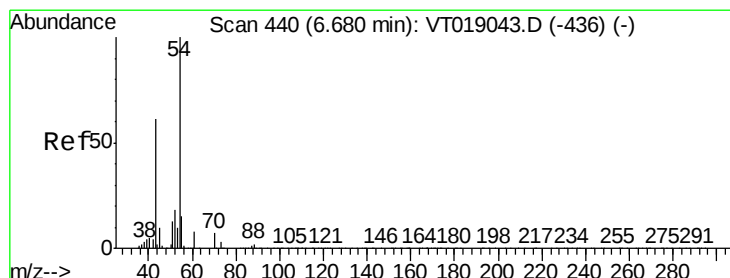
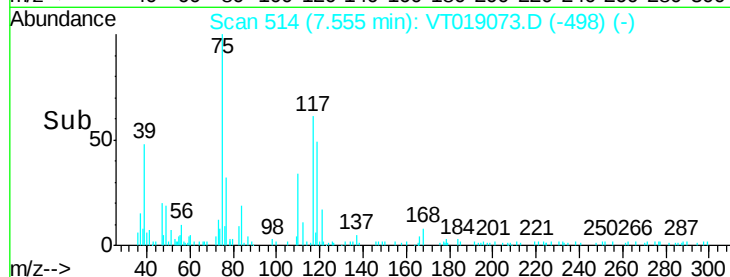
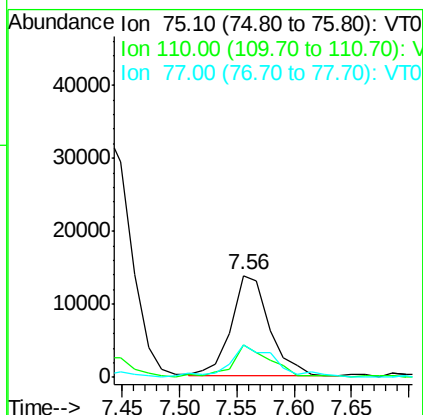
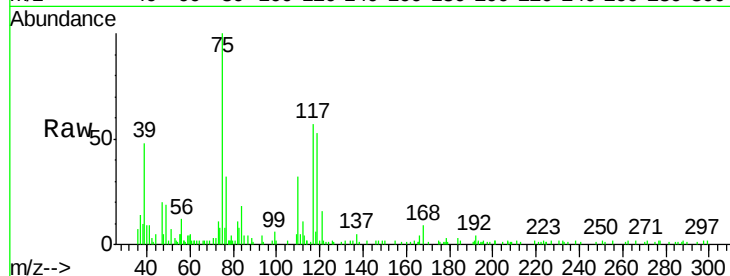
Tot Ion: 75 Resp: 32444

Ion Ratio Lower Upper

75 100

110 32.4 15.9 47.6

77 32.4 25.9 38.9



#36

Ethyl Acetate

Concen: 2.44 ug/l

RT: 6.68 min Scan# 440

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

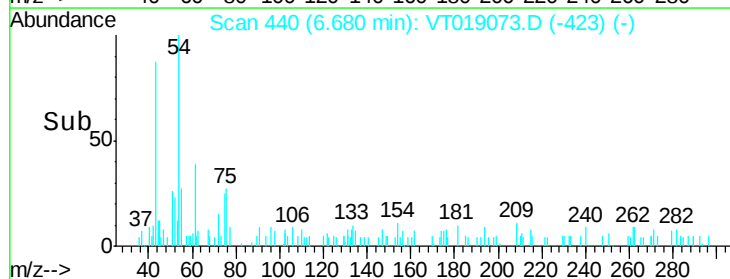
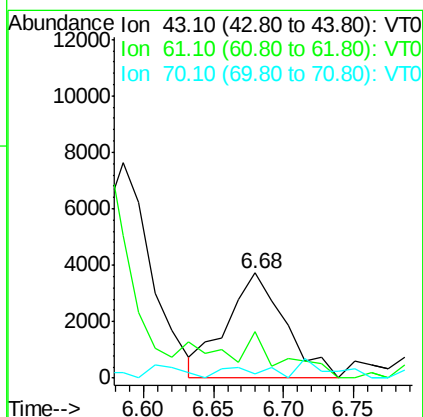
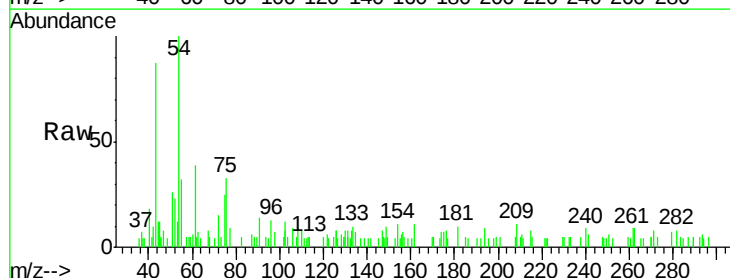
Tgt Ion: 43 Resp: 10759

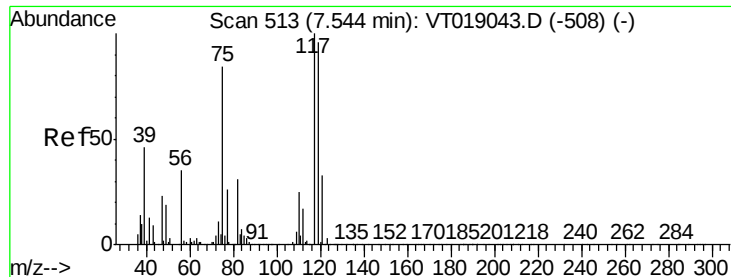
Ion Ratio Lower Upper

43 100

61 44.3 14.2 21.2#

70 4.1 8.4 12.6#

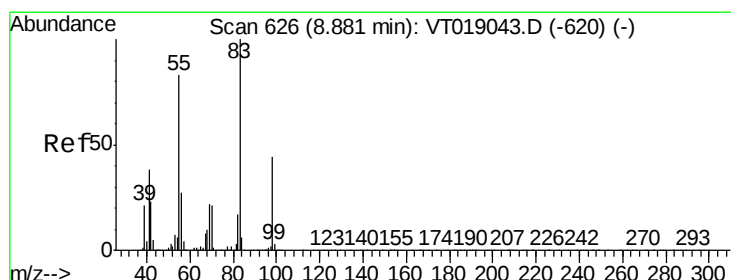
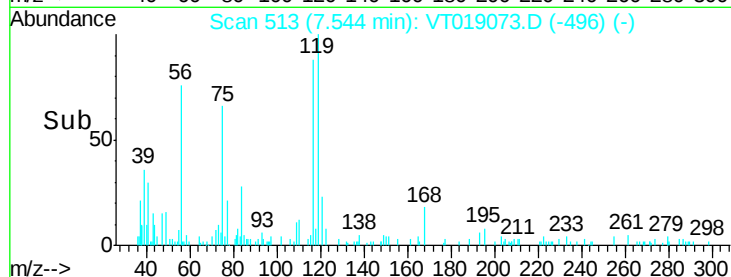
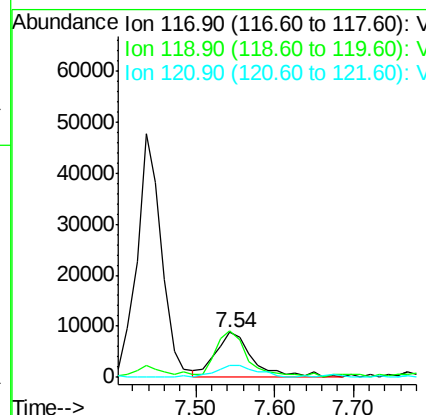
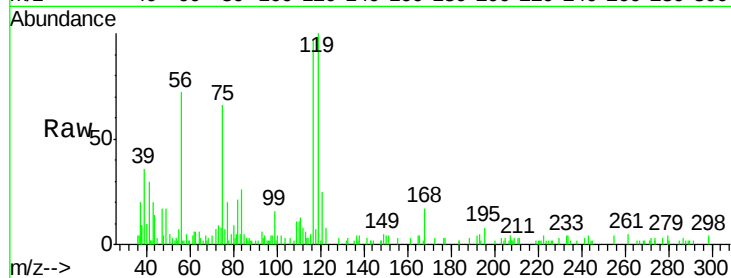




#37
Carbon Tetrachloride
Concen: 2.06 ug/l
RT: 7.54 min Scan# 513
Delta R.T. -0.00 min
Lab File: VT019073.D
Acq: 10 May 2018 13:45

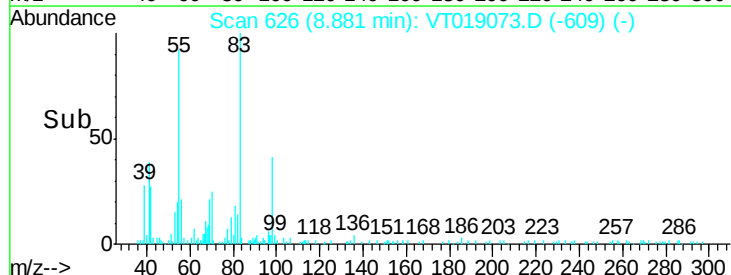
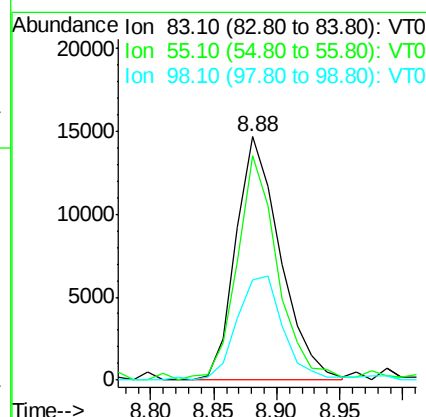
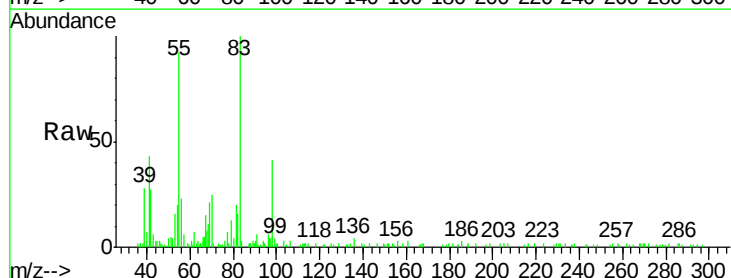
Instrument :
MSVOA_T
ClientSampleId :
MDL-SOIL-03-QT2-2018DL

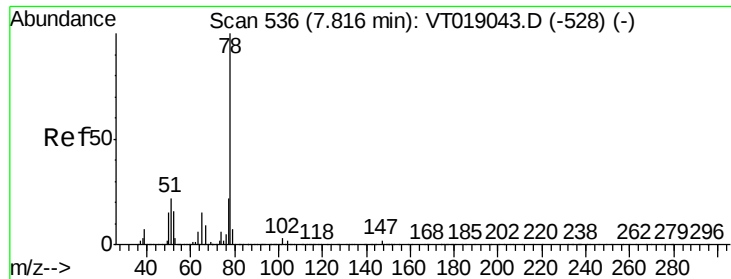
Tot Ion:117 Resp: 28811
Ion Ratio Lower Upper
117 100
119 103.3 76.5 114.7
121 26.3 26.0 39.0



#38
Methylcyclohexane
Concen: 1.77 ug/l
RT: 8.88 min Scan# 626
Delta R.T. -0.00 min
Lab File: VT019073.D
Acq: 10 May 2018 13:45

Tgt Ion: 83 Resp: 35988
Ion Ratio Lower Upper
83 100
55 92.0 66.7 100.1
98 41.0 35.5 53.3





#39

Benzene

Concen: 2.18 ug/l

RT: 7.82 min Scan# 536

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

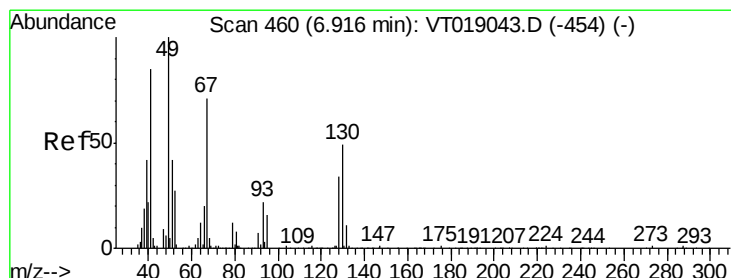
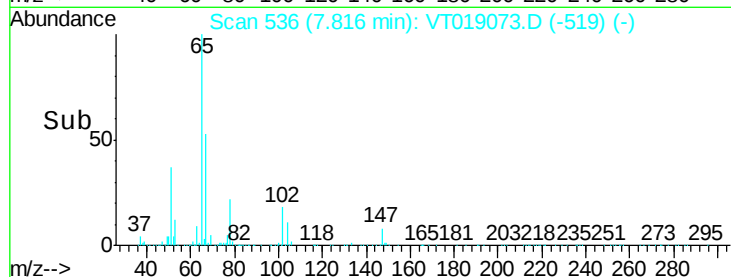
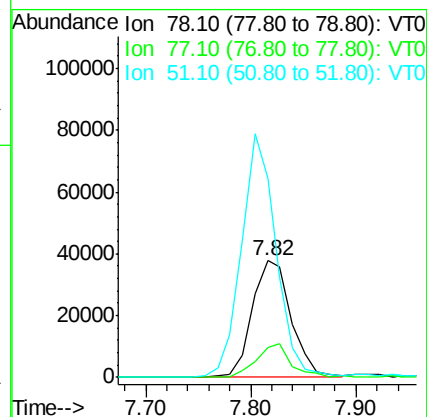
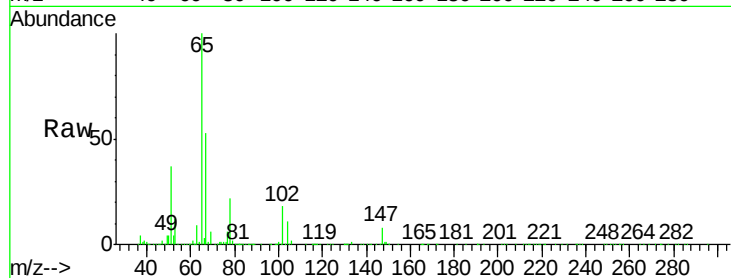
Tot Ion: 78 Resp: 97318

Ion Ratio Lower Upper

78 100

77 25.6 18.0 27.0

51 170.9 17.3 25.9#



#40

Methacrylonitrile

Concen: 2.81 ug/l

RT: 6.92 min Scan# 460

Delta R.T. 0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Tgt Ion: 41 Resp: 5946

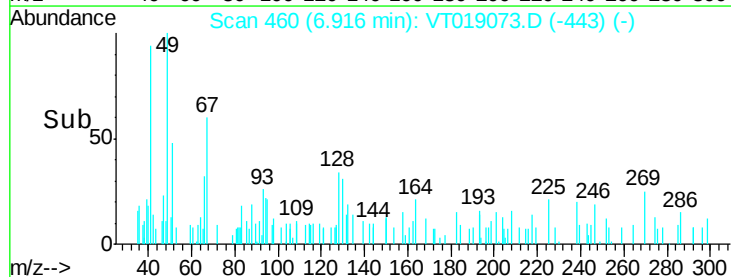
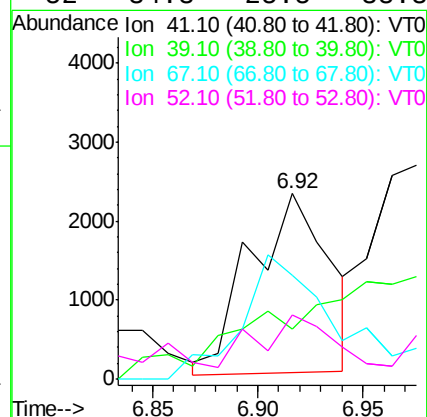
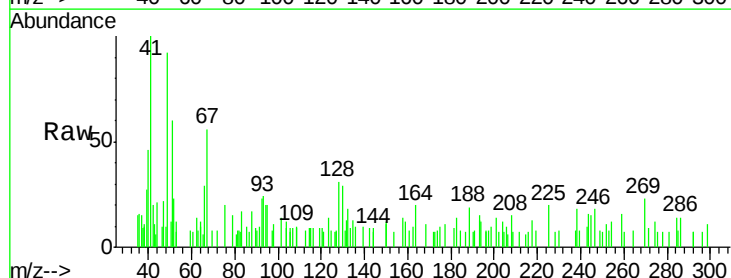
Ion Ratio Lower Upper

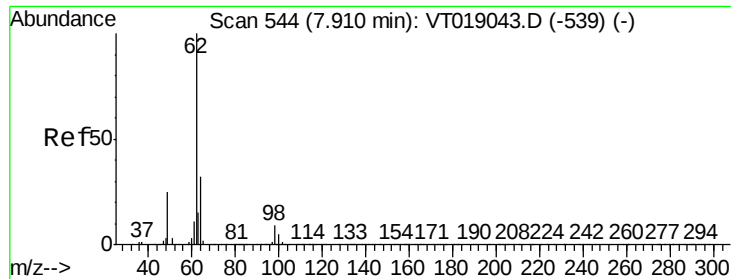
41 100

39 26.7 39.4 59.0#

67 55.8 66.8 100.2#

52 34.3 25.5 38.3





#41

1,2-Dichloroethane

Concen: 2.21 ug/l

RT: 7.91 min Scan# 544

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

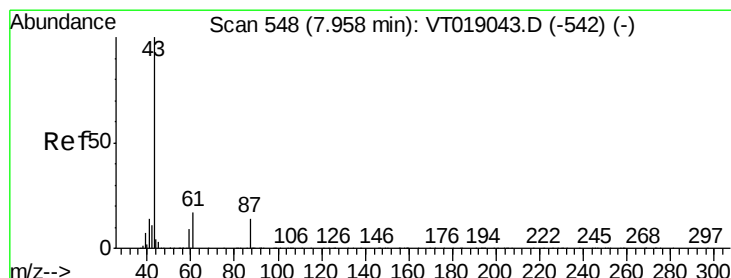
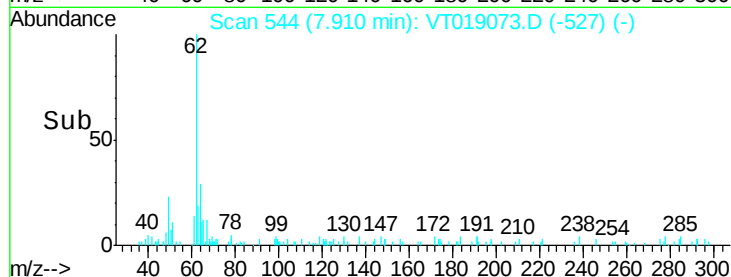
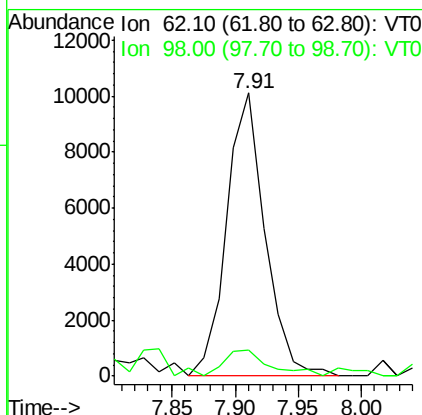
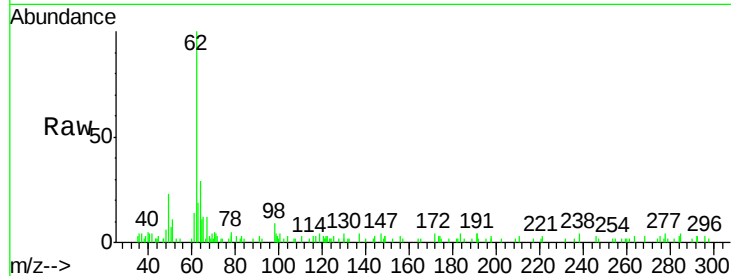
MDL-SOIL-03-QT2-2018DL

Tot Ion: 62 Resp: 21451

Ion Ratio Lower Upper

62 100

98 9.1 0.0 17.4



#42

Isopropyl Acetate

Concen: 1.44 ug/l

RT: 7.96 min Scan# 548

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

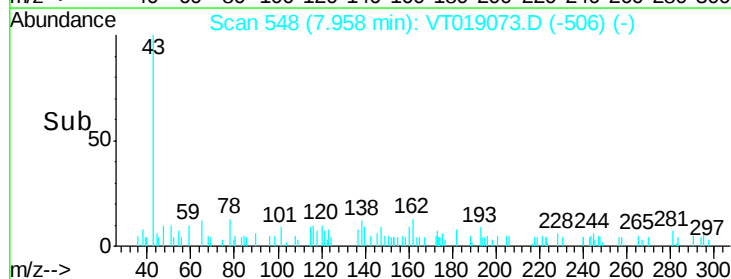
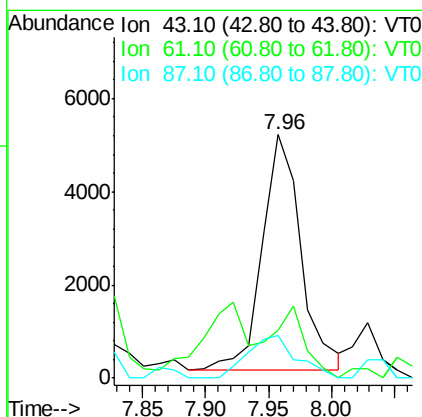
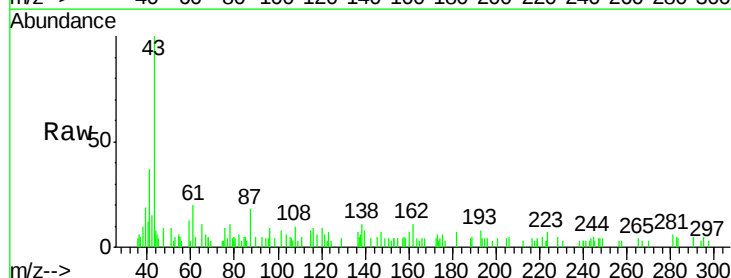
Tgt Ion: 43 Resp: 10913

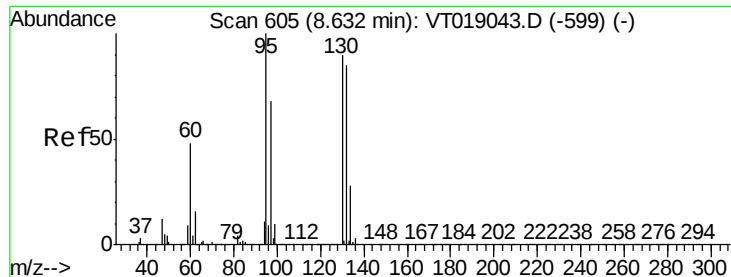
Ion Ratio Lower Upper

43 100

61 19.5 17.9 26.9

87 17.7 11.0 16.6#





#43

Trichloroethene

Concen: 1.80 ug/l

RT: 8.63 min Scan# 605

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

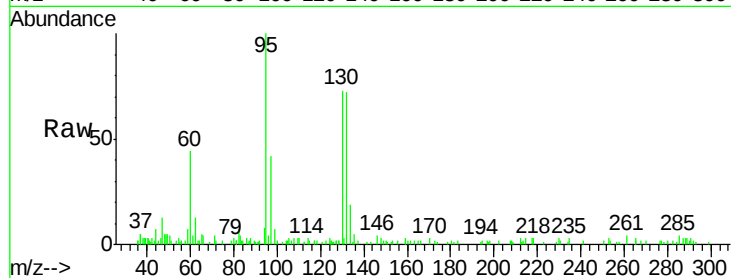
MDL-SOIL-03-QT2-2018DL

Tot Ion:130 Resp: 18451

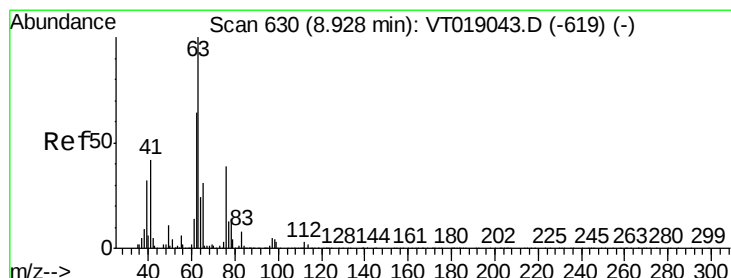
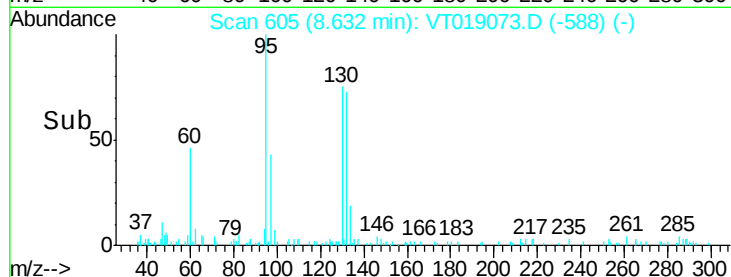
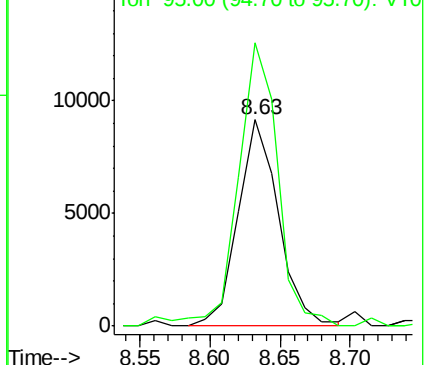
Ion Ratio Lower Upper

130 100

95 137.1 0.0 222.6



Abundance Ion 129.90 (129.60 to 130.60): VT0



#44

1,2-Dichloropropane

Concen: 1.92 ug/l

RT: 8.93 min Scan# 630

Delta R.T. -0.00 min

Lab File: VT019073.D

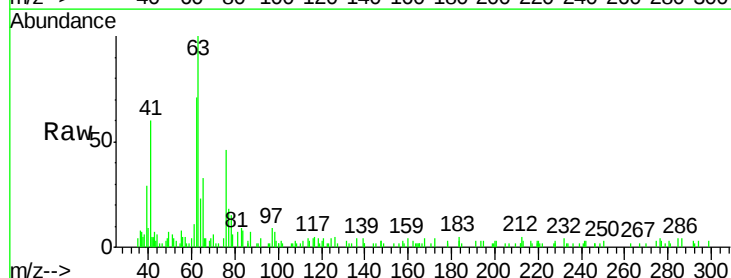
Acq: 10 May 2018 13:45

Tgt Ion: 63 Resp: 20111

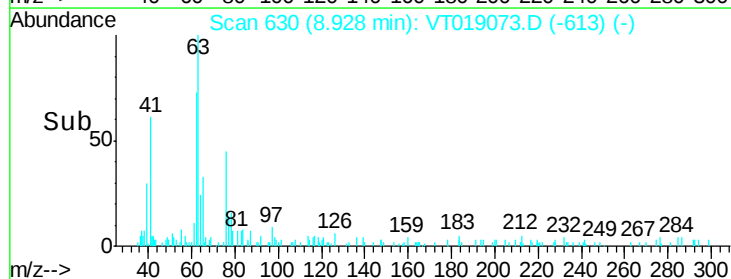
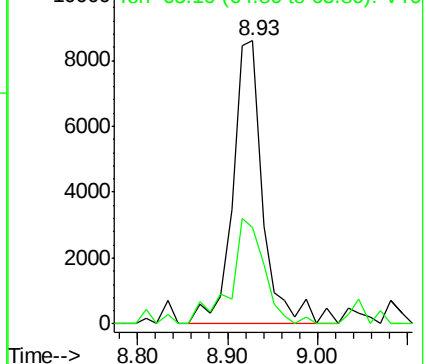
Ion Ratio Lower Upper

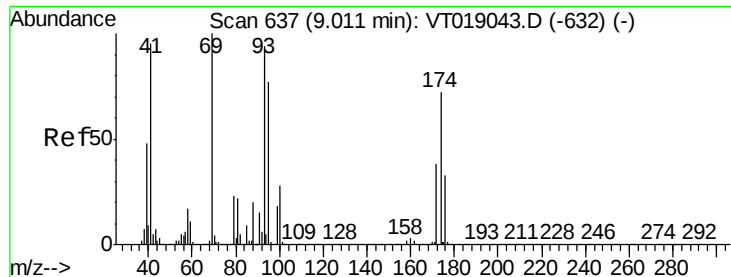
63 100

65 34.3 25.0 37.4



Abundance Ion 63.10 (62.80 to 63.80): VT0

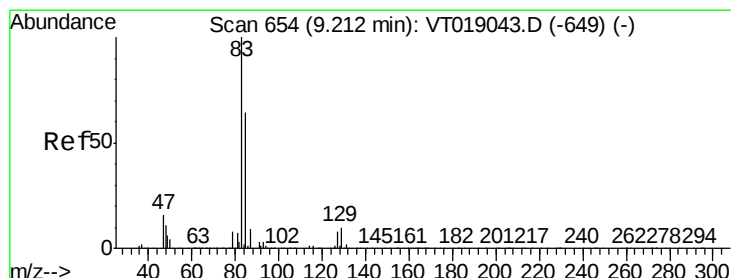
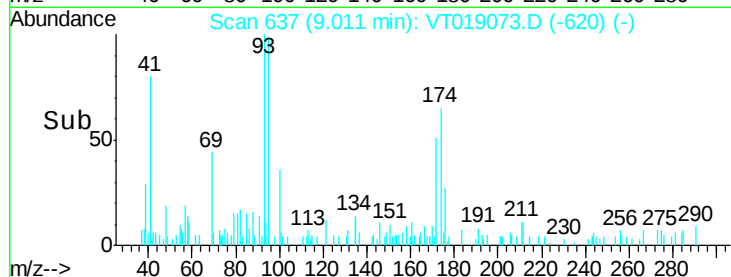
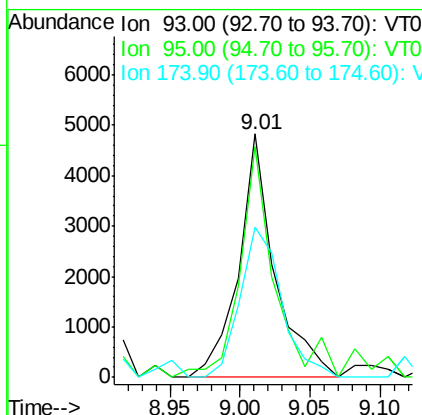
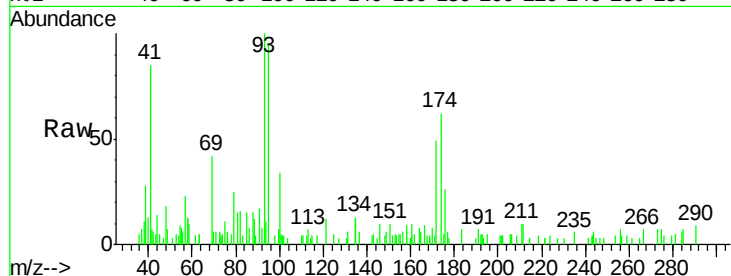




#45
Dibromomethane
Concen: 2.11 ug/l
RT: 9.01 min Scan# 637
Delta R.T. -0.00 min
Lab File: VT019073.D
Acq: 10 May 2018 13:45

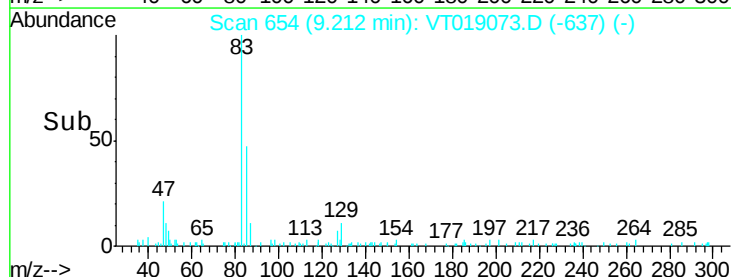
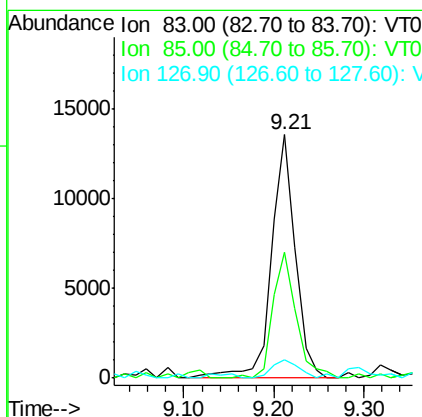
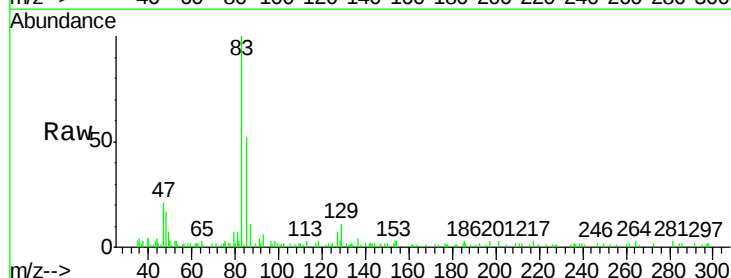
Instrument :
MSVOA_T
ClientSampleId :
MDL-SOIL-03-QT2-2018DL

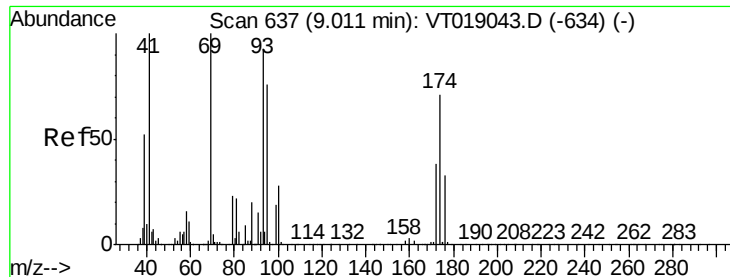
Tot Ion: 93 Resp: 8672
Ion Ratio Lower Upper
93 100
95 95.0 65.5 98.3
174 61.9 60.9 91.3



#46
Bromodichloromethane
Concen: 2.11 ug/l
RT: 9.21 min Scan# 654
Delta R.T. -0.00 min
Lab File: VT019073.D
Acq: 10 May 2018 13:45

Tgt Ion: 83 Resp: 25264
Ion Ratio Lower Upper
83 100
85 51.8 51.3 76.9
127 7.4 6.1 9.1

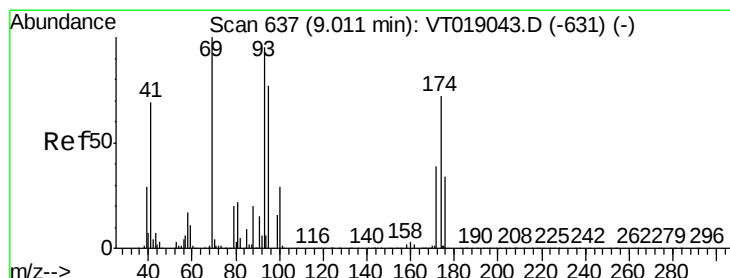
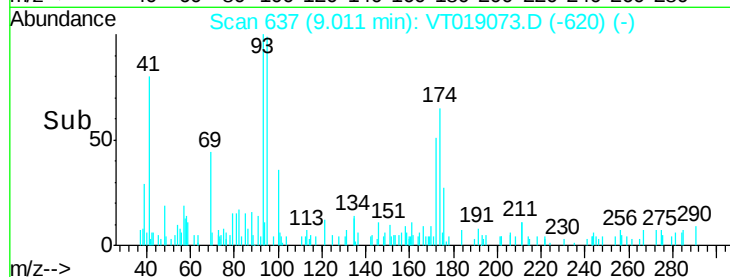
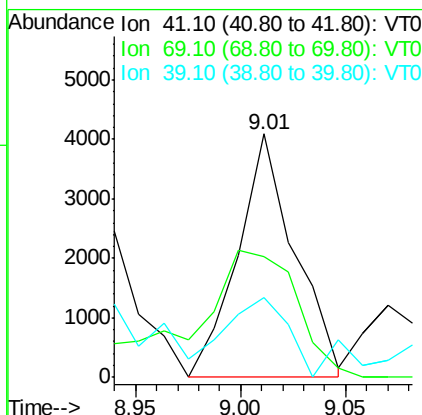
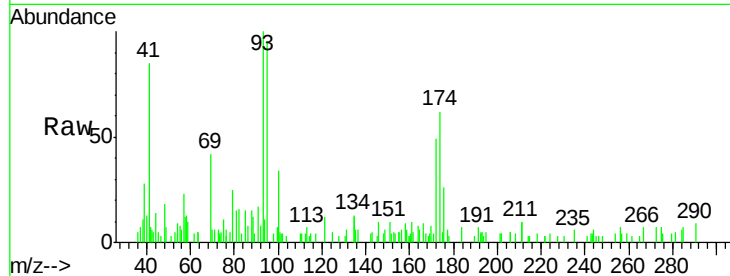




#47
Methvl methacrylate
Concen: 1.98 ug/l
RT: 9.01 min Scan# 637
Delta R.T. -0.00 min
Lab File: VT019073.D
Acq: 10 May 2018 13:45

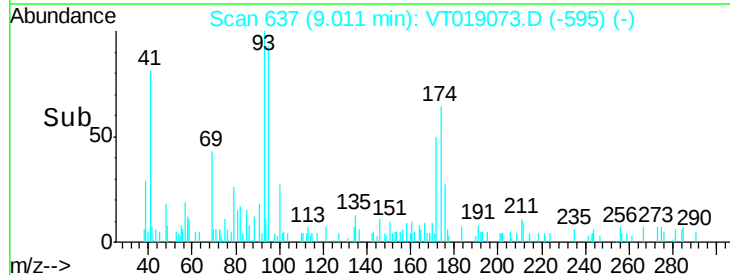
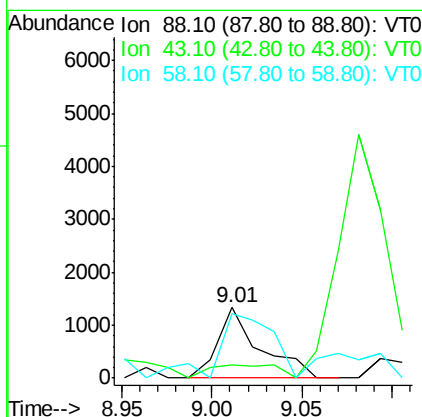
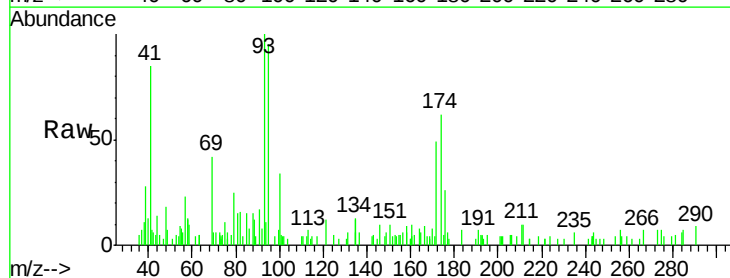
Instrument :
MSVOA_T
ClientSampleId :
MDL-SOIL-03-QT2-2018DL

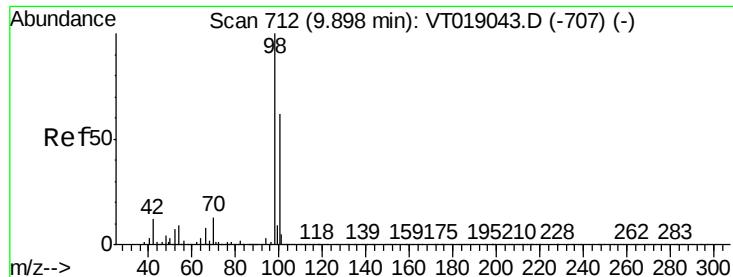
Tot Ion: 41 Resp: 7765
Ion Ratio Lower Upper
41 100
69 52.2 78.4 117.6#
39 30.3 41.4 62.2#



#48
1,4-Dioxane
Concen: 34.95 ug/l
RT: 9.01 min Scan# 637
Delta R.T. 0.00 min
Lab File: VT019073.D
Acq: 10 May 2018 13:45

Tgt Ion: 88 Resp: 2165
Ion Ratio Lower Upper
88 100
43 19.4 30.5 45.7#
58 128.1 67.5 101.3#





#49

Toluene-d8

Concen: 53.24 ug/l

RT: 9.91 min Scan# 713

Delta R.T. 0.01 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

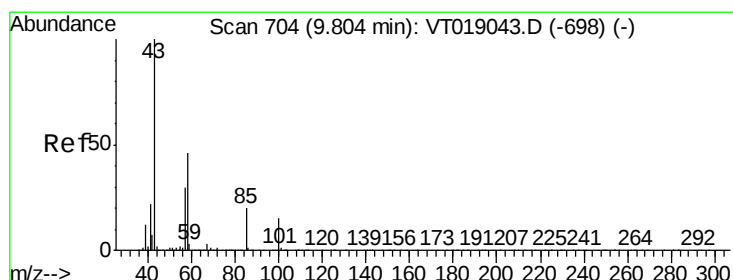
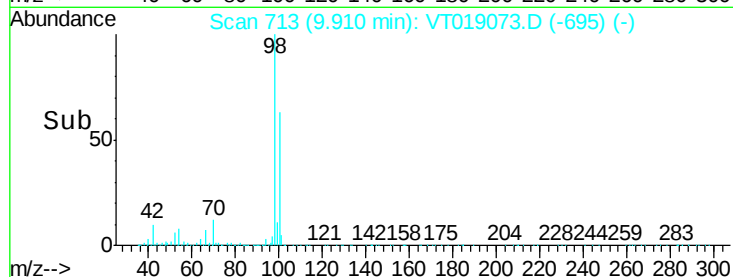
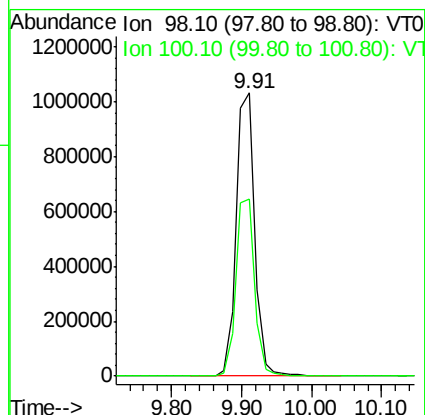
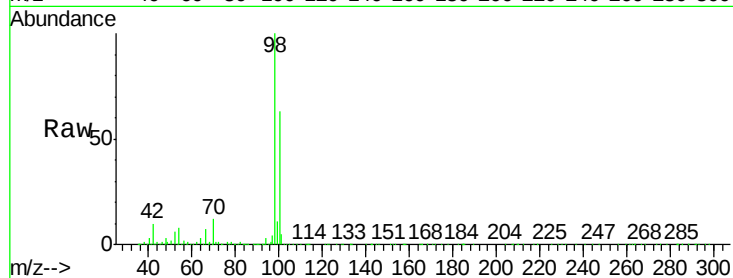
MDL-SOIL-03-QT2-2018DL

Tot Ion: 98 Resp: 1895282

Ion Ratio Lower Upper

98 100

100 62.5 50.0 75.0



#50

4-Methyl-2-Pentanone

Concen: 9.06 ug/l

RT: 9.80 min Scan# 704

Delta R.T. -0.00 min

Lab File: VT019073.D

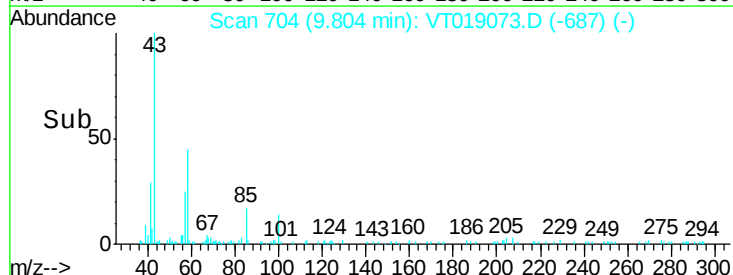
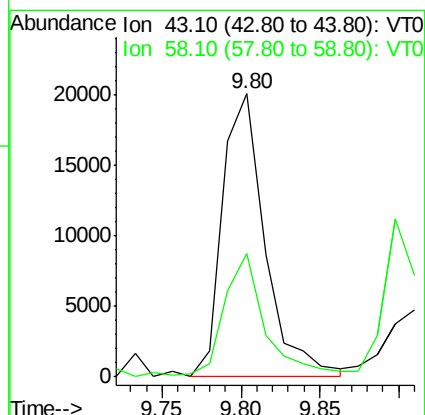
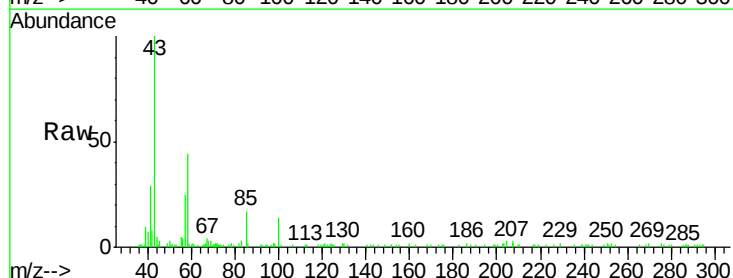
Acq: 10 May 2018 13:45

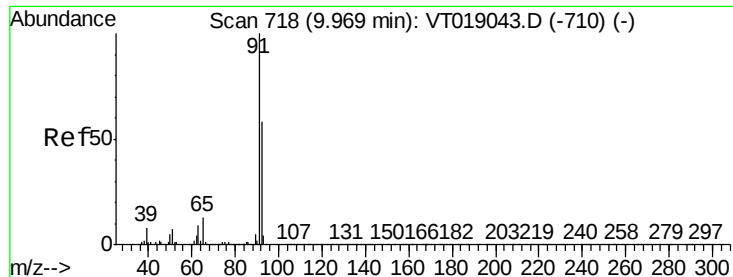
Tgt Ion: 43 Resp: 37643

Ion Ratio Lower Upper

43 100

58 43.8 36.6 54.8





#51

Toluene

Concen: 2.27 ug/l

RT: 9.97 min Scan# 718

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

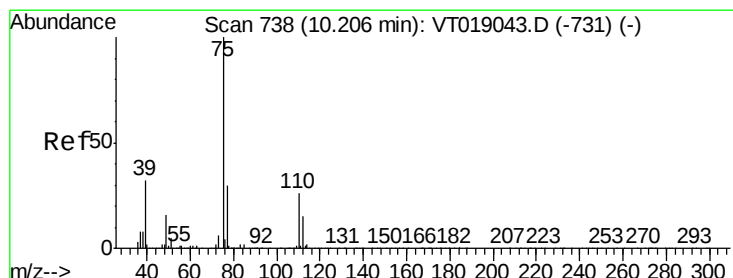
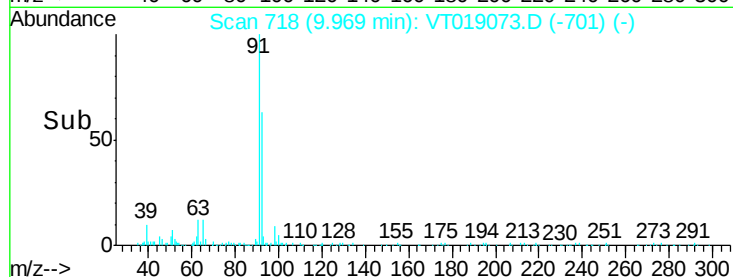
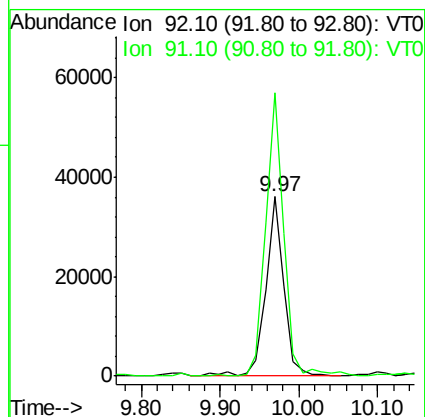
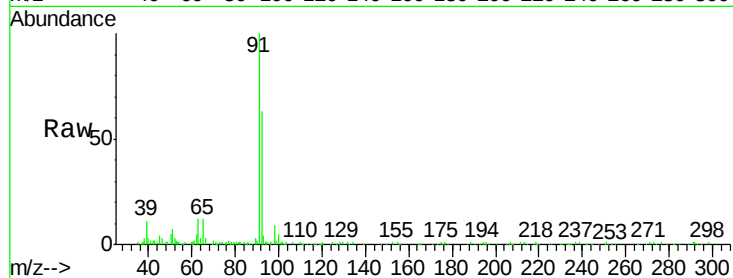
MDL-SOIL-03-QT2-2018DL

Tot Ion: 92 Resp: 58602

Ion Ratio Lower Upper

92 100

91 157.8 137.8 206.6



#52

t-1,3-Dichloropropene

Concen: 1.77 ug/l

RT: 10.21 min Scan# 738

Delta R.T. -0.00 min

Lab File: VT019073.D

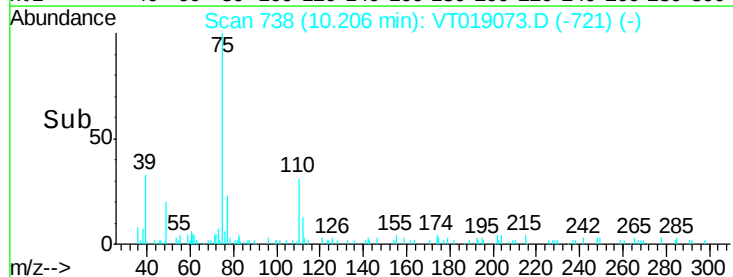
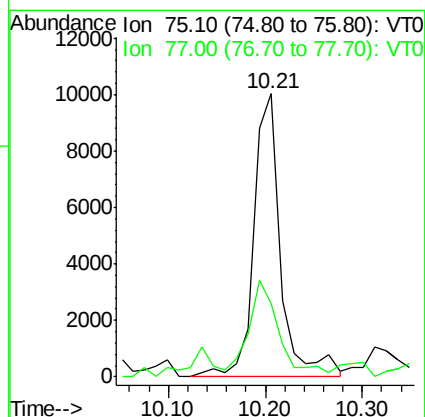
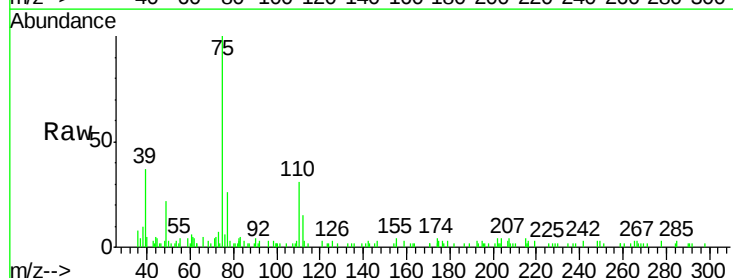
Acq: 10 May 2018 13:45

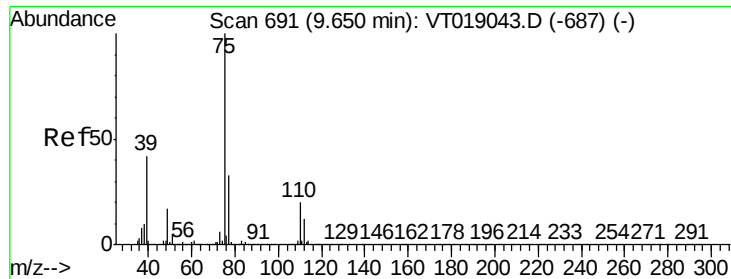
Tgt Ion: 75 Resp: 19260

Ion Ratio Lower Upper

75 100

77 25.8 24.6 36.8





#53

cis-1,3-Dichloropropene

Concen: 1.62 ug/l

RT: 9.65 min Scan# 691

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

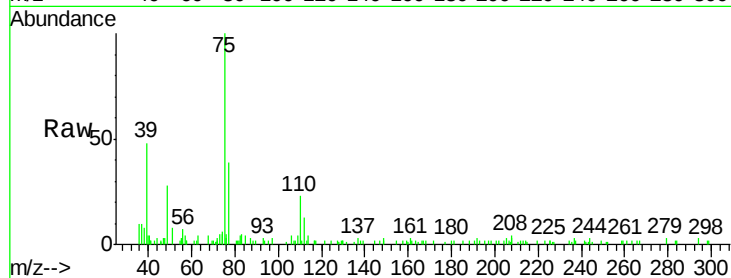
Tot Ion: 75 Resp: 22356

Ion Ratio Lower Upper

75 100

77 37.0 26.6 39.8

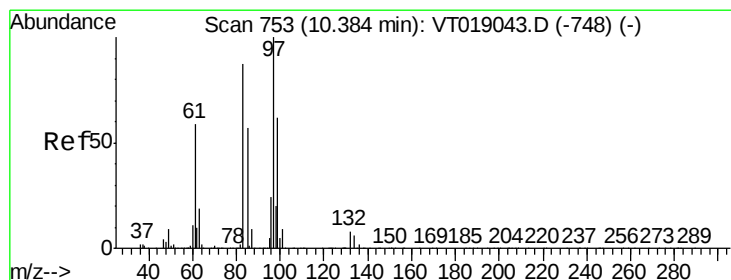
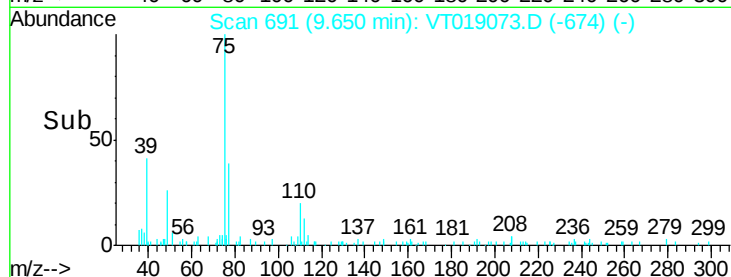
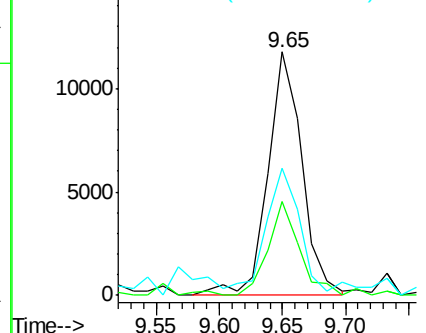
39 49.7 34.1 51.1



Abundance Ion 75.10 (74.80 to 75.80): VT0

Ion 77.00 (76.70 to 77.70): VT0

Ion 39.10 (38.80 to 39.80): VT0



#54

1,1,2-Trichloroethane

Concen: 1.97 ug/l

RT: 10.38 min Scan# 753

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Tgt Ion: 97 Resp: 12294

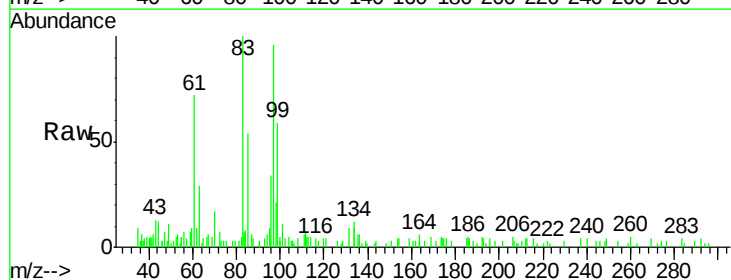
Ion Ratio Lower Upper

97 100

83 104.6 69.7 104.5#

85 56.1 46.1 69.1

99 67.3 49.6 74.4

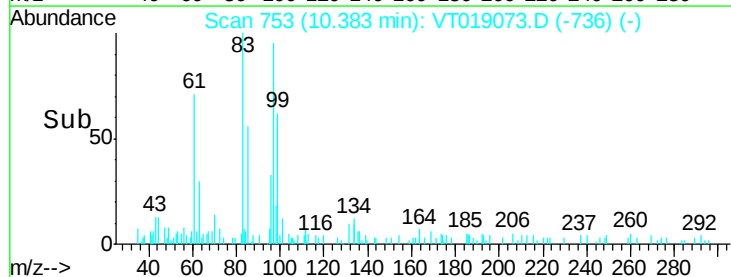
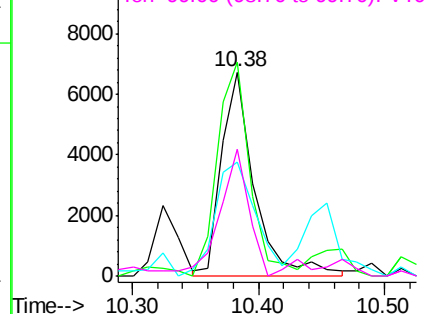


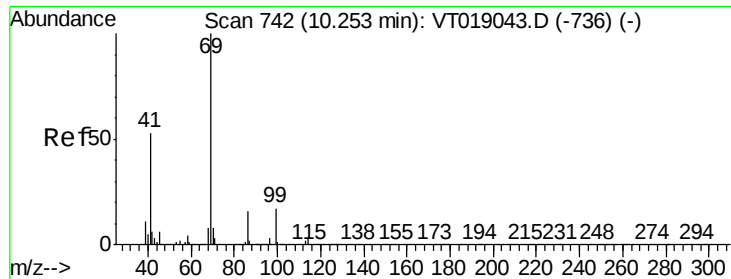
Abundance Ion 97.00 (96.70 to 97.70): VT0

Ion 83.00 (82.70 to 83.70): VT0

Ion 85.00 (84.70 to 85.70): VT0

Ion 99.00 (98.70 to 99.70): VT0





#55

Ethyl methacrylate

Concen: 1.61 ug/l

RT: 10.25 min Scan# 742

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

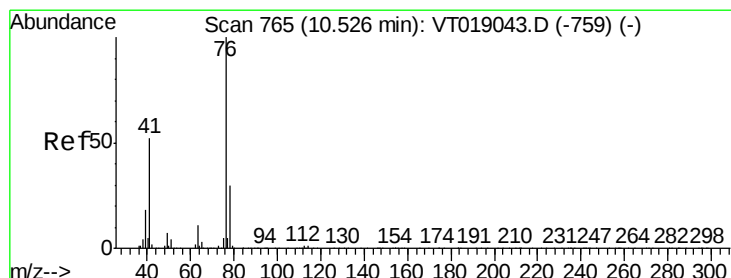
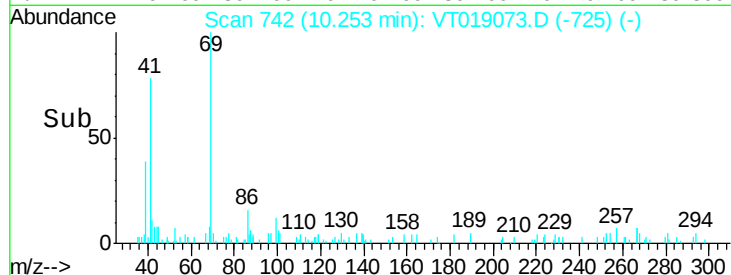
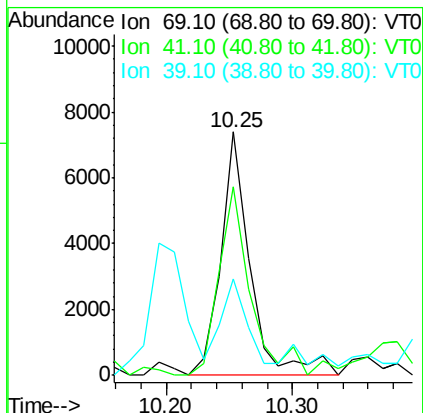
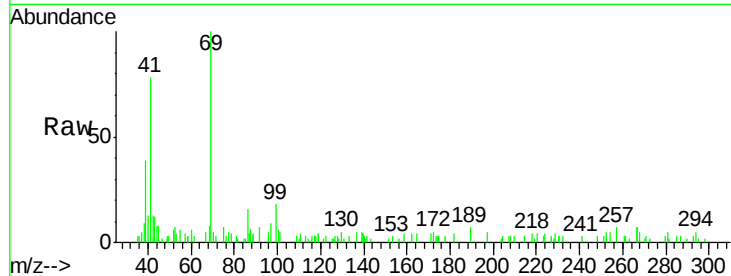
Tot Ion: 69 Resp: 12010

Ion Ratio Lower Upper

69 100

41 77.6 42.9 64.3#

39 39.5 21.2 31.8#



#56

1,3-Dichloropropane

Concen: 1.95 ug/l

RT: 10.53 min Scan# 765

Delta R.T. -0.00 min

Lab File: VT019073.D

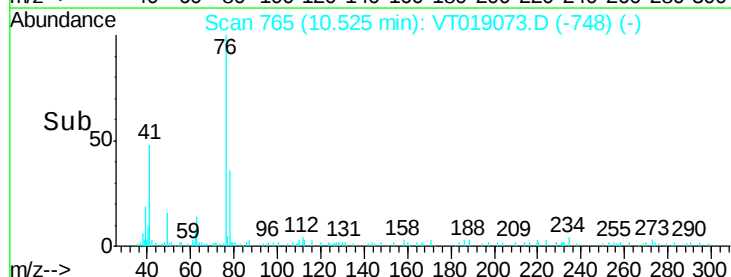
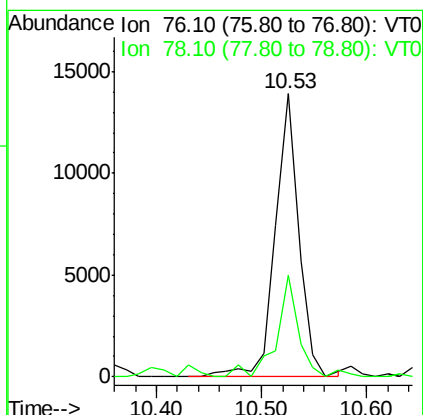
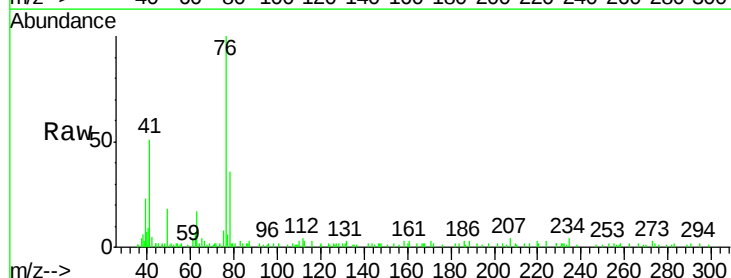
Acq: 10 May 2018 13:45

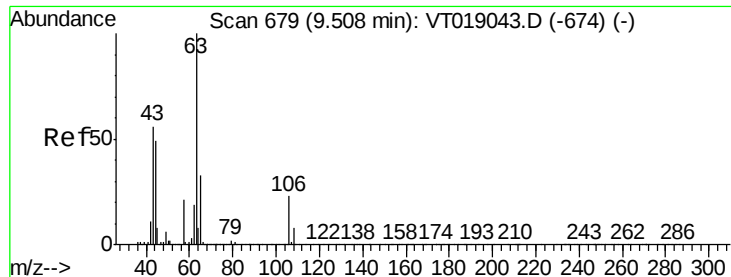
Tgt Ion: 76 Resp: 21793

Ion Ratio Lower Upper

76 100

78 37.7 24.1 36.1#





#57

2-Chloroethyl Vinyl ether

Concen: 9.33 ug/l

RT: 9.51 min Scan# 679

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

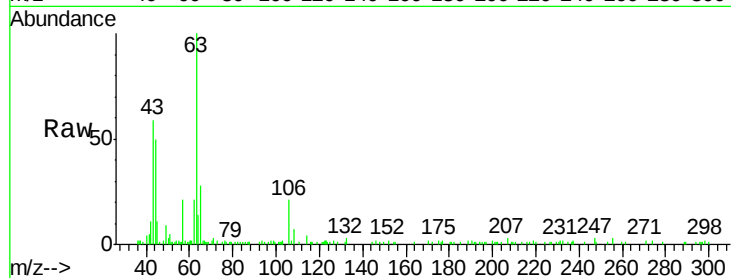
MDL-SOIL-03-QT2-2018DL

Tot Ion: 63 Resp: 32153

Ion Ratio Lower Upper

63 100

106 21.2 18.7 28.1



Abundance Ion 63.10 (62.80 to 63.80): VT0

Ion 106.10 (105.80 to 106.80): VT0

9.51

20000

15000

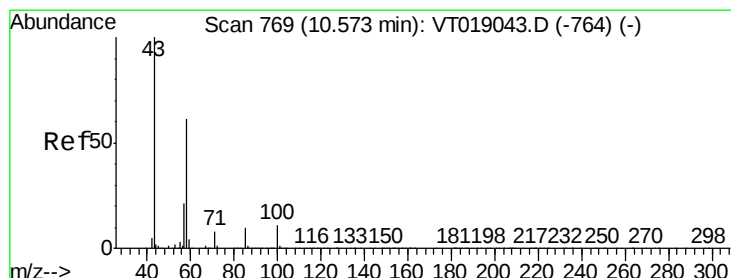
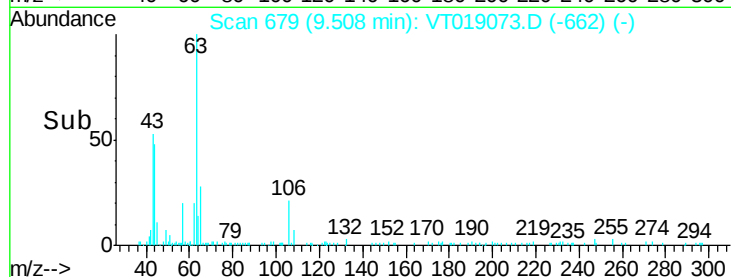
10000

5000

0

9.40 9.50 9.60

Time-->



#58

2-Hexanone

Concen: 9.08 ug/l

RT: 10.57 min Scan# 769

Delta R.T. -0.00 min

Lab File: VT019073.D

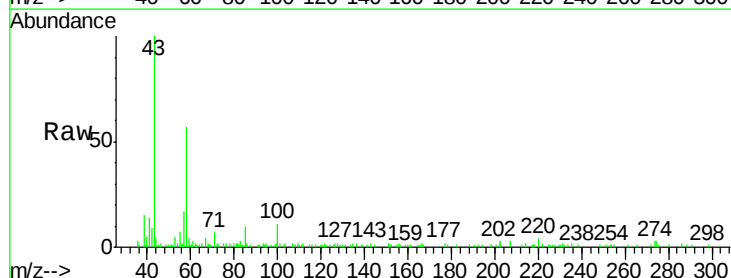
Acq: 10 May 2018 13:45

Tgt Ion: 43 Resp: 27356

Ion Ratio Lower Upper

43 100

58 56.5 30.6 92.0



Abundance Ion 43.10 (42.80 to 43.80): VT0

Ion 58.10 (57.80 to 58.80): VT0

10.57

20000

15000

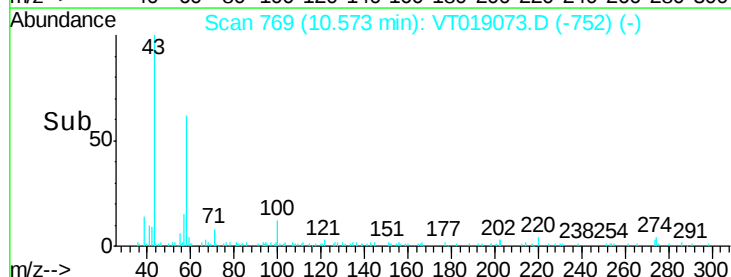
10000

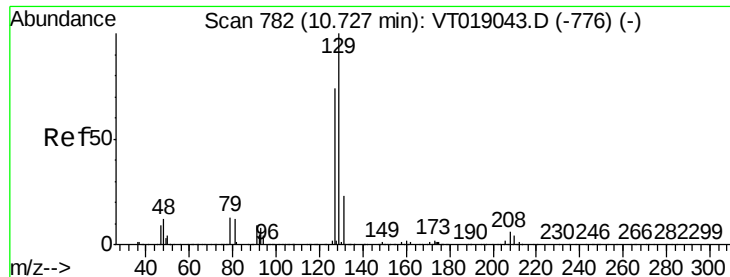
5000

0

10.50 10.60

Time-->





#59

Dibromochloromethane

Concen: 1.64 ug/l

RT: 10.73 min Scan# 782

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

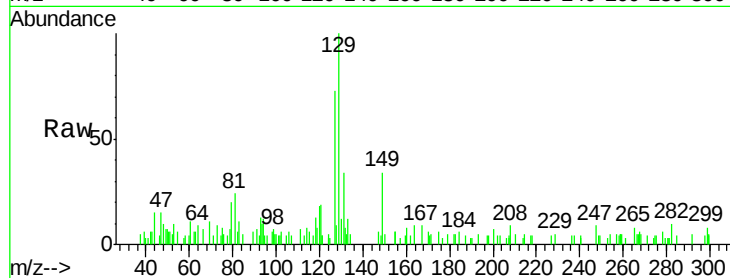
MDL-SOIL-03-QT2-2018DL

Tot Ion:129 Resp: 10666

Ion Ratio Lower Upper

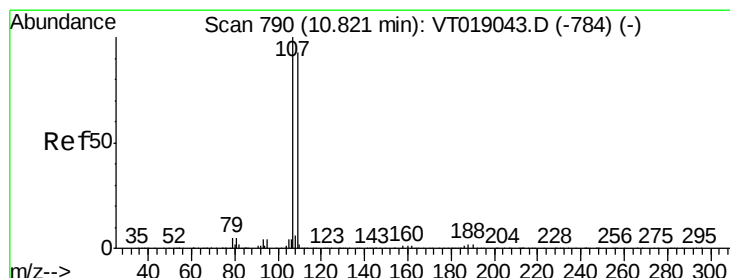
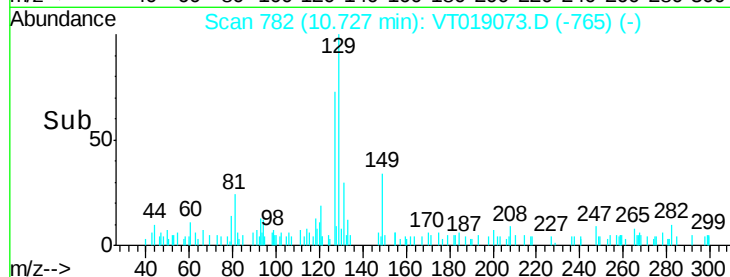
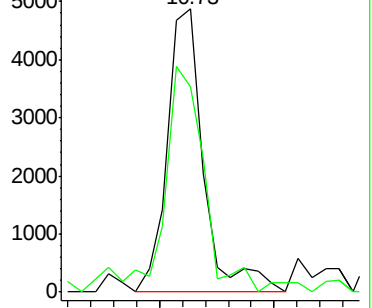
129 100

127 72.7 37.3 111.8



Abundance Ion 128.90 (128.60 to 129.60): V

Ion 126.90 (126.60 to 127.60): V



#60

1,2-Dibromoethane

Concen: 1.83 ug/l

RT: 10.82 min Scan# 790

Delta R.T. -0.00 min

Lab File: VT019073.D

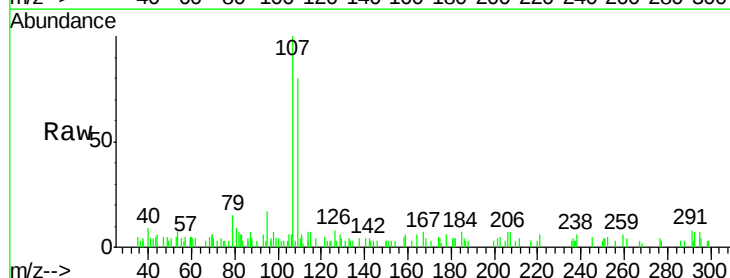
Acq: 10 May 2018 13:45

Tgt Ion:107 Resp: 9881

Ion Ratio Lower Upper

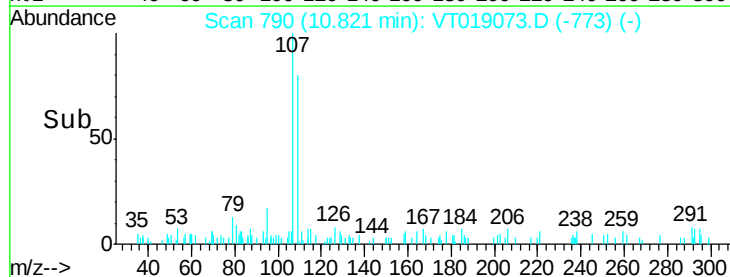
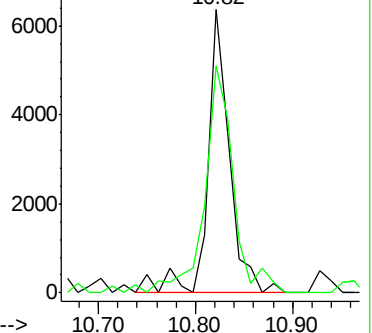
107 100

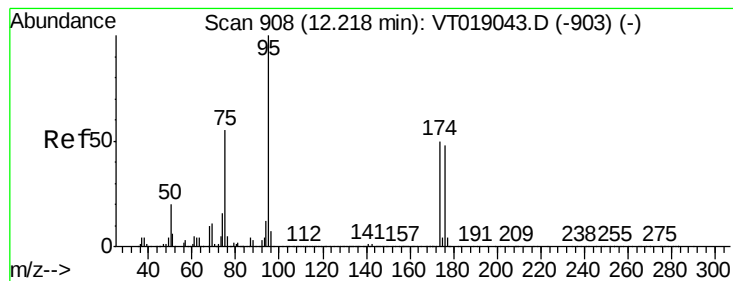
109 80.1 74.3 111.5



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





#61

4-Bromofluorobenzene

Concen: 49.10 ug/l

RT: 12.22 min Scan# 908

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

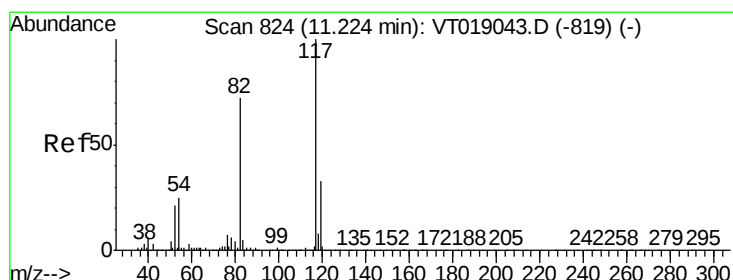
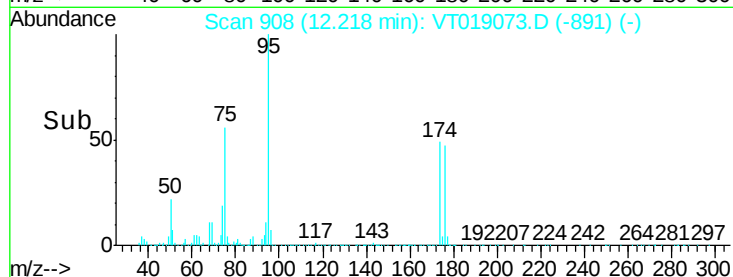
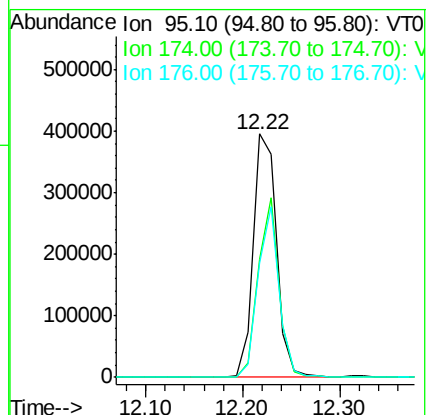
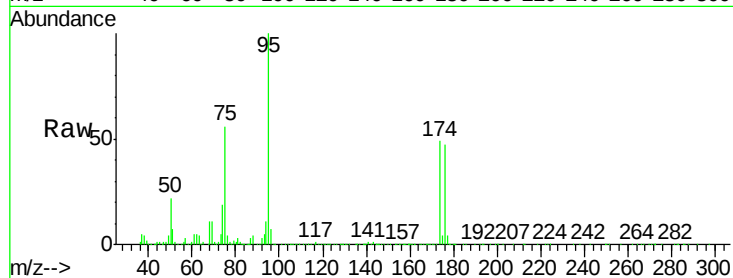
Tot Ion: 95 Resp: 658086

Ion Ratio Lower Upper

95 100

174 48.6 0.0 100.0

176 47.2 0.0 96.6



#62

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.22 min Scan# 824

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

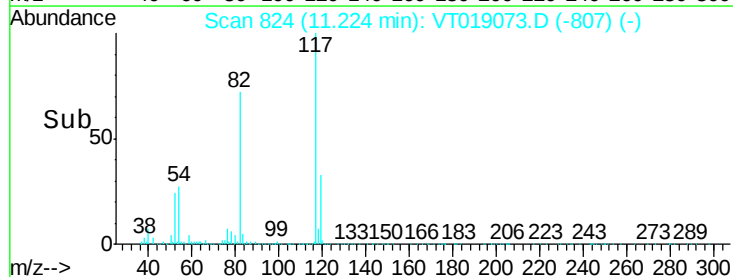
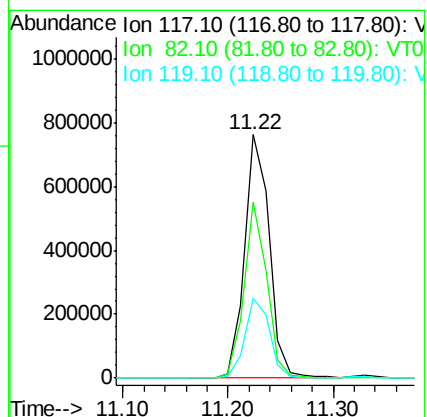
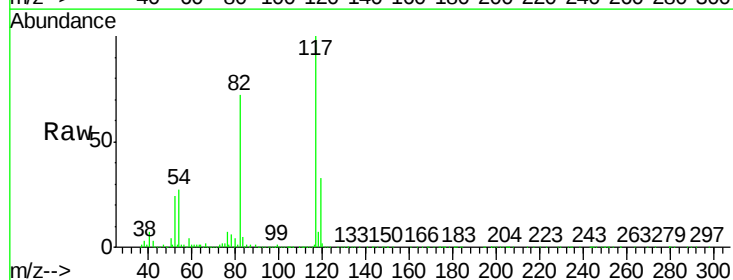
Tgt Ion: 117 Resp: 1237378

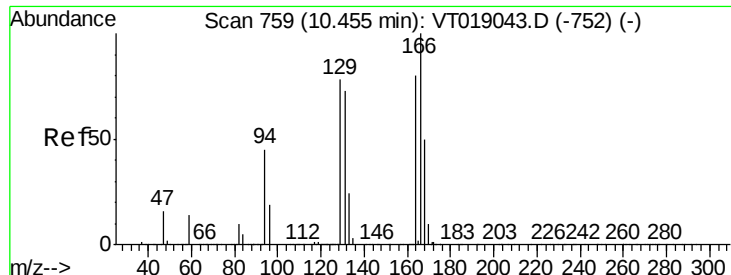
Ion Ratio Lower Upper

117 100

82 72.1 57.6 86.4

119 32.6 26.6 40.0





#63

Tetrachloroethene

Concen: 2.09 ug/l

RT: 10.45 min Scan# 759

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

Tot Ion:164 Resp: 17661

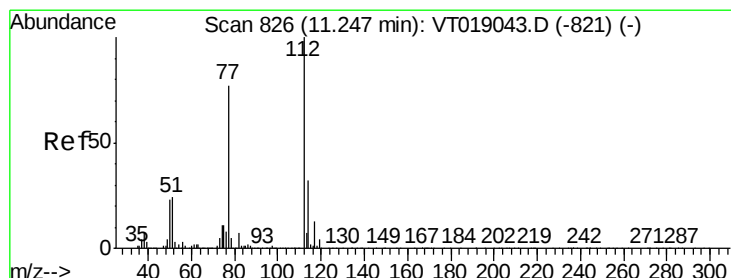
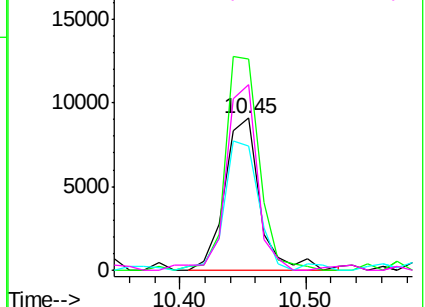
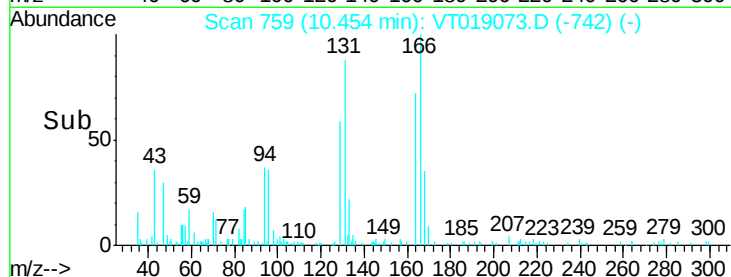
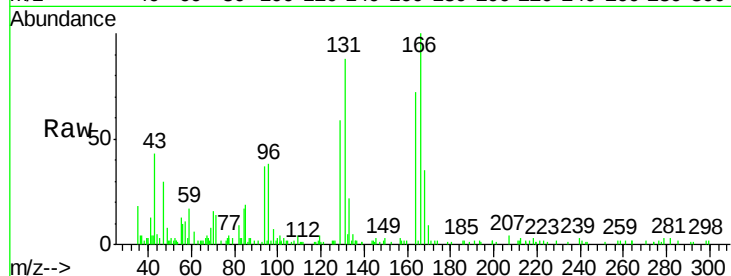
Ion Ratio Lower Upper

164 100

166 139.2 100.6 151.0

129 81.9 78.1 117.1

131 122.2 73.2 109.8#



#64

Chlorobenzene

Concen: 2.16 ug/l

RT: 11.25 min Scan# 826

Delta R.T. -0.00 min

Lab File: VT019073.D

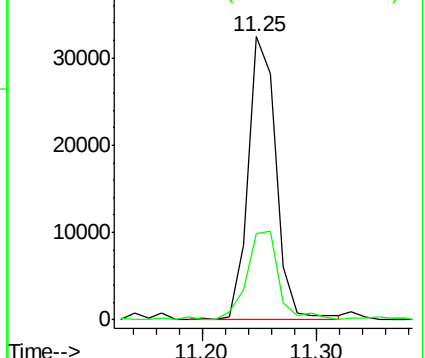
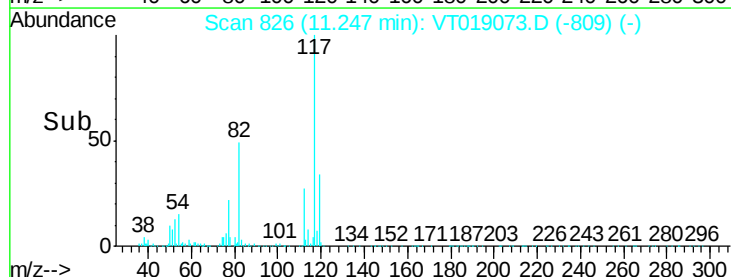
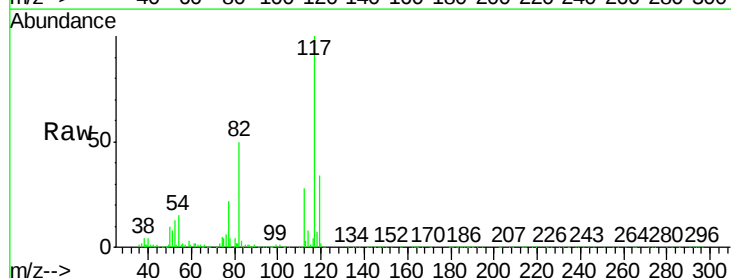
Acq: 10 May 2018 13:45

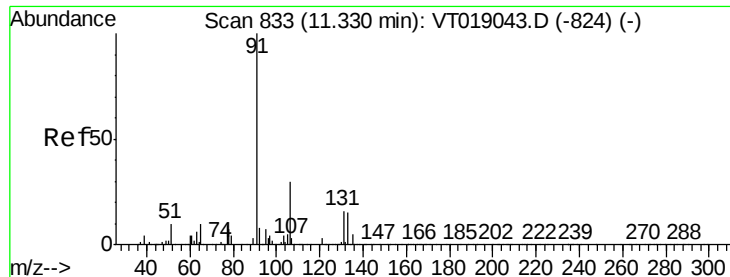
Tgt Ion:112 Resp: 55463

Ion Ratio Lower Upper

112 100

114 30.5 25.5 38.3





#65

1,1,1,2-Tetrachloroethane

Concen: 1.84 ug/l

RT: 11.33 min Scan# 833

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

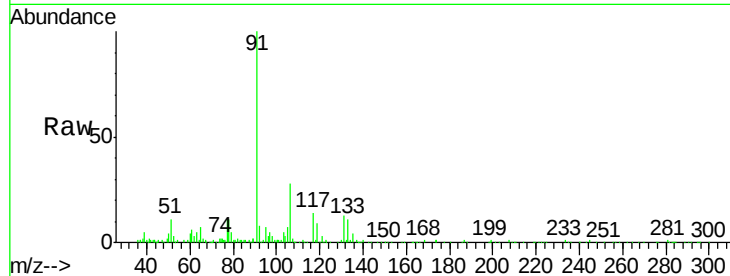
Tot Ion:131 Resp: 15269

Ion Ratio Lower Upper

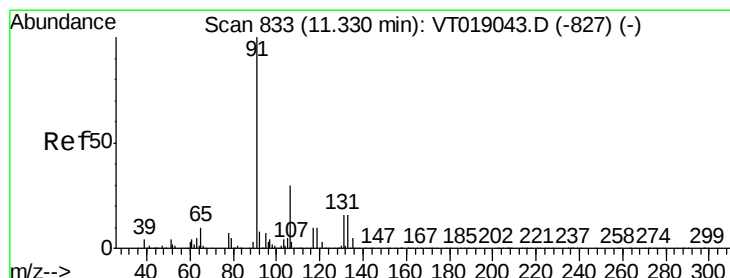
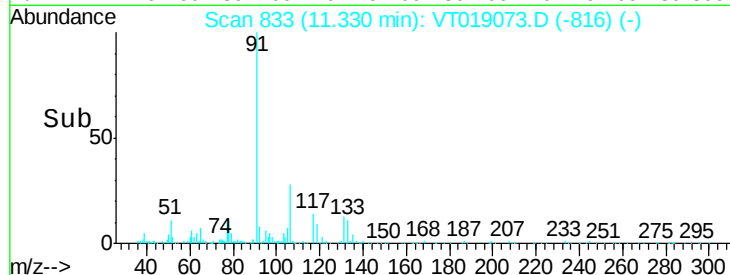
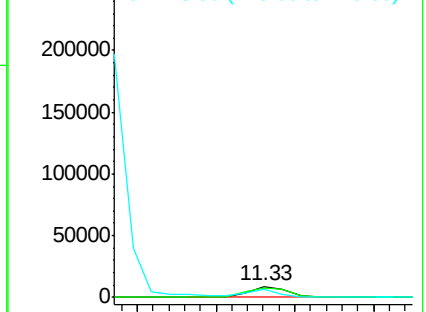
131 100

133 87.1 47.8 143.3

119 73.7 31.8 95.4



Abundance Ion 130.90 (130.60 to 131.60): V
Ion 132.90 (132.60 to 133.60): V
Ion 118.90 (118.60 to 119.60): V



#66

Ethyl Benzene

Concen: 2.01 ug/l

RT: 11.33 min Scan# 833

Delta R.T. -0.00 min

Lab File: VT019073.D

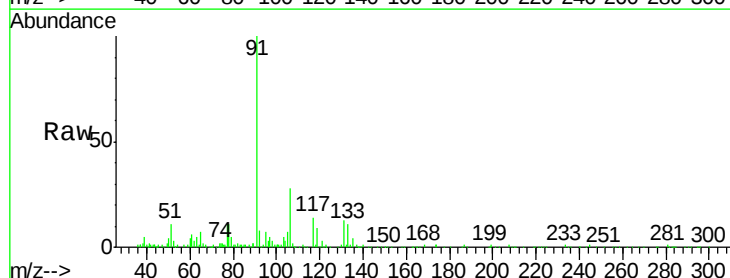
Acq: 10 May 2018 13:45

Tgt Ion: 91 Resp: 98613

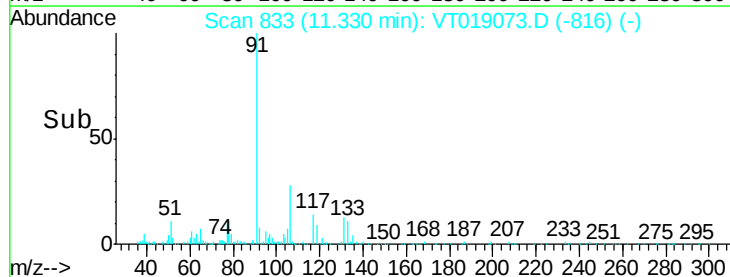
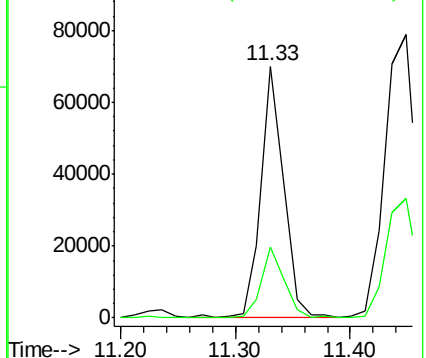
Ion Ratio Lower Upper

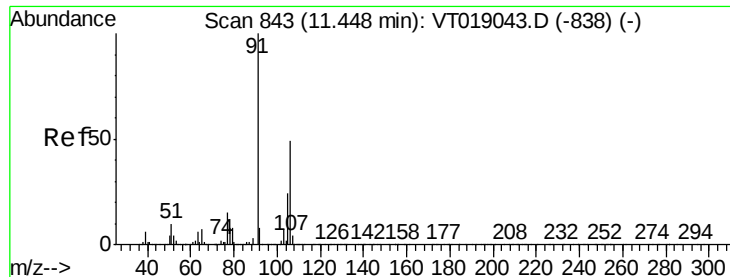
91 100

106 27.9 24.0 36.0



Abundance Ion 91.10 (90.80 to 91.80): VT0
Ion 106.10 (105.80 to 106.80): V





#67

m/p-Xylenes

Concen: 3.44 ug/l

RT: 11.45 min Scan# 843

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

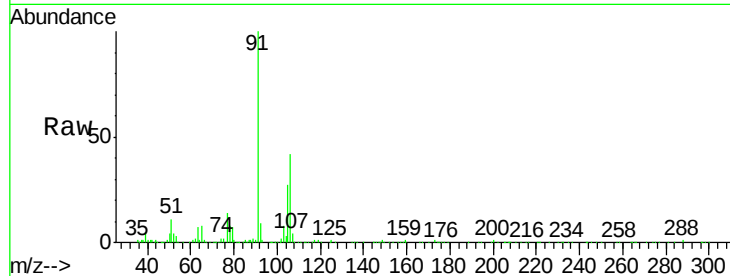
MDL-SOIL-03-QT2-2018DL

Tot Ion:106 Resp: 62906

Ion Ratio Lower Upper

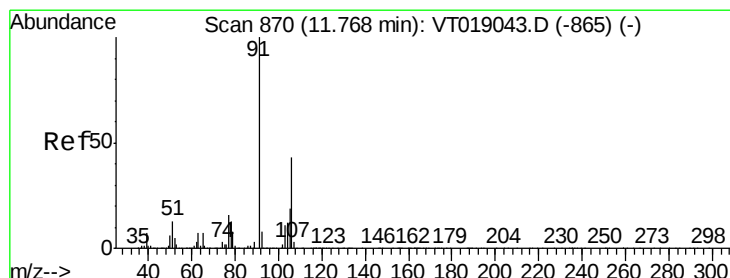
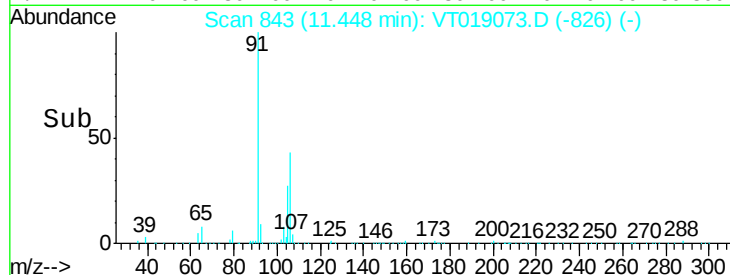
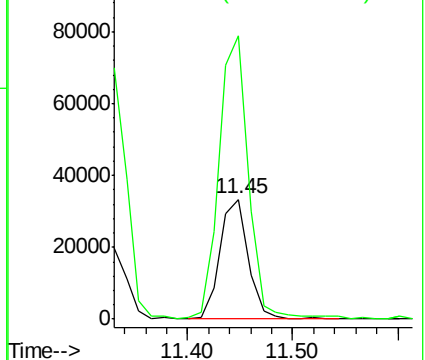
106 100

91 235.6 162.2 243.4



Abundance Ion 106.10 (105.80 to 106.80): V

Ion 91.10 (90.80 to 91.80): VT0



#68

o-Xylene

Concen: 1.50 ug/l

RT: 11.77 min Scan# 870

Delta R.T. -0.00 min

Lab File: VT019073.D

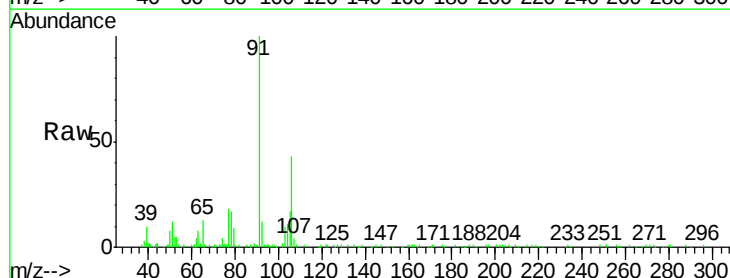
Acq: 10 May 2018 13:45

Tgt Ion:106 Resp: 25738

Ion Ratio Lower Upper

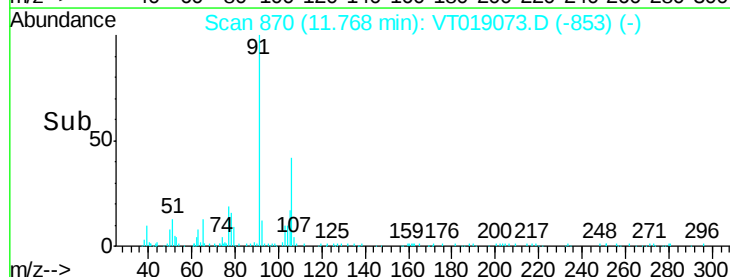
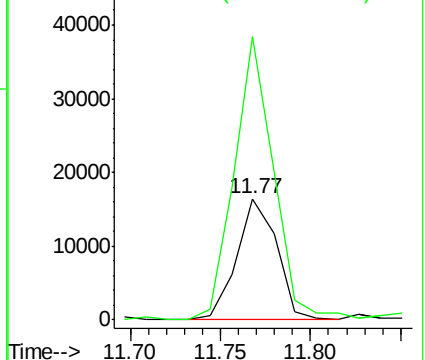
106 100

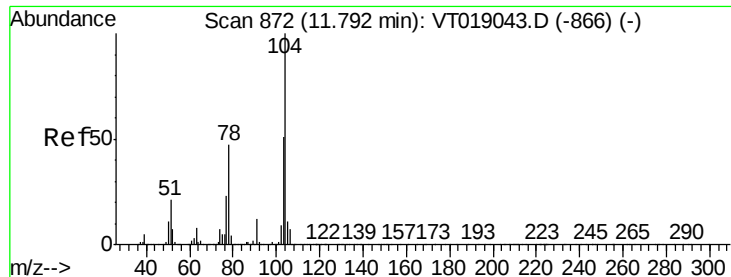
91 233.9 116.0 348.0



Abundance Ion 106.10 (105.80 to 106.80): V

Ion 91.10 (90.80 to 91.80): VT0

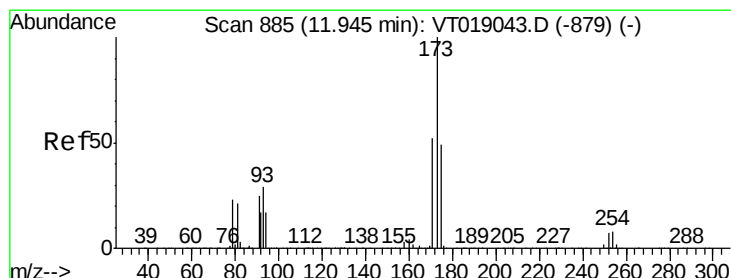
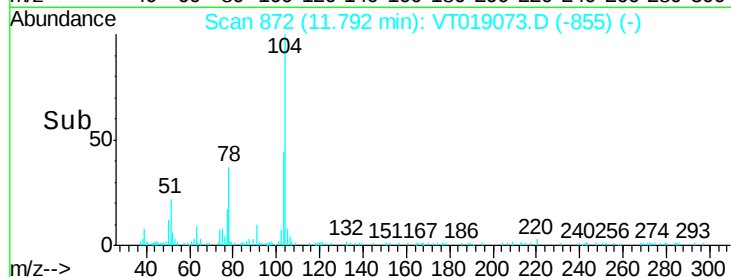
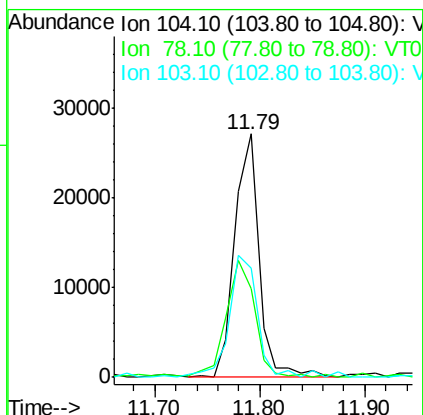
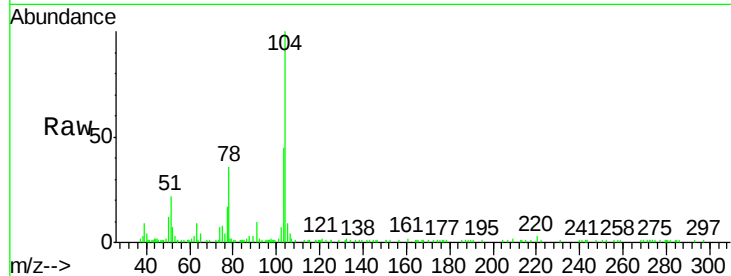




#69
Stvrene
Concen: 1.63 ug/l
RT: 11.79 min Scan# 872
Delta R.T. -0.00 min
Lab File: VT019073.D
Acq: 10 May 2018 13:45

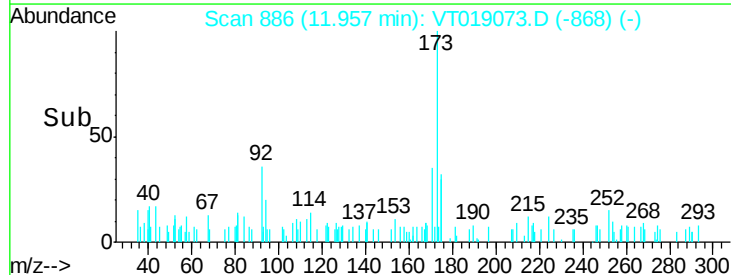
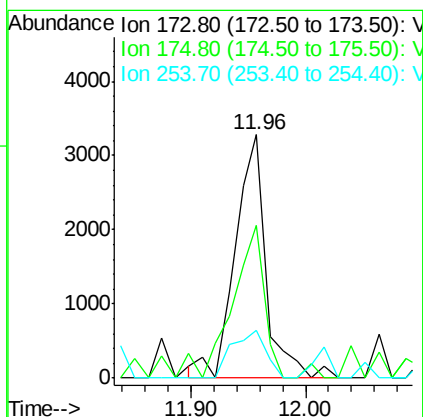
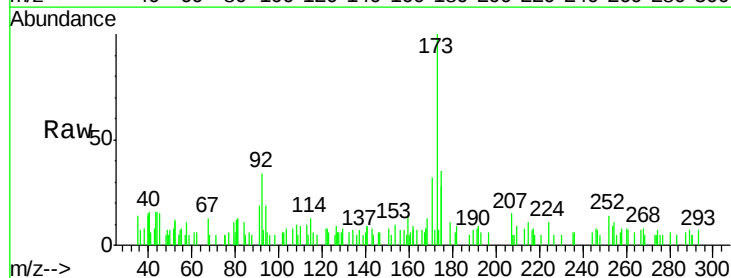
Instrument :
MSVOA_T
ClientSampleId :
MDL-SOIL-03-QT2-2018DL

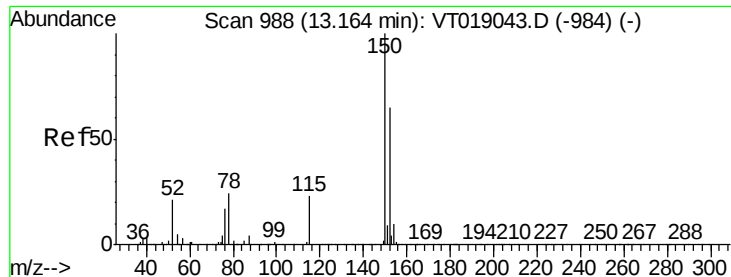
Tot Ion:104 Resp: 43271
Ion Ratio Lower Upper
104 100
78 38.6 38.0 57.0
103 44.8 40.6 61.0



#70
Bromoform
Concen: 1.94 ug/l
RT: 11.96 min Scan# 886
Delta R.T. 0.01 min
Lab File: VT019073.D
Acq: 10 May 2018 13:45

Tgt Ion:173 Resp: 6135
Ion Ratio Lower Upper
173 100
175 58.8 24.6 73.8
254 18.3 6.1 9.1#





#71

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.16 min Scan# 988

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

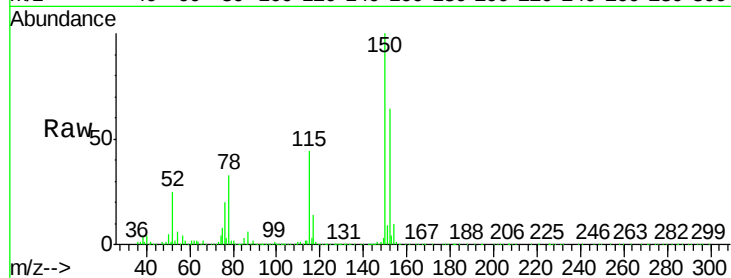
Tot Ion:152 Resp: 554359

Ion Ratio Lower Upper

152 100

115 69.0 34.2 102.6

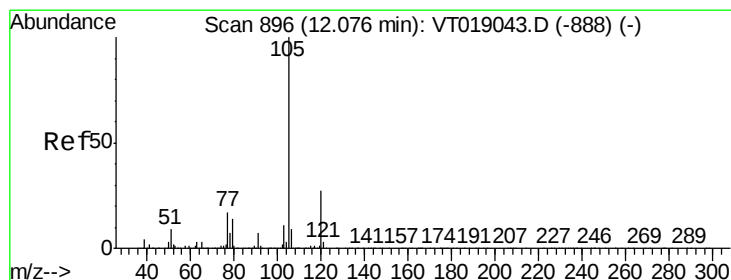
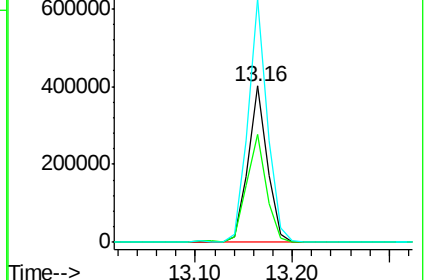
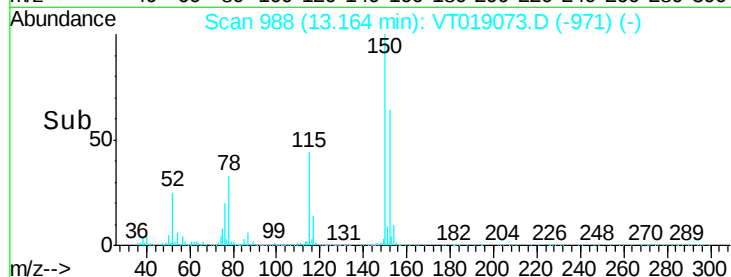
150 155.8 0.0 321.2



Abundance Ion 152.00 (151.70 to 152.70): V

Ion 115.00 (114.70 to 115.70): V

Ion 150.00 (149.70 to 150.70): V



#72

Isopropylbenzene

Concen: 1.78 ug/l

RT: 12.08 min Scan# 896

Delta R.T. -0.00 min

Lab File: VT019073.D

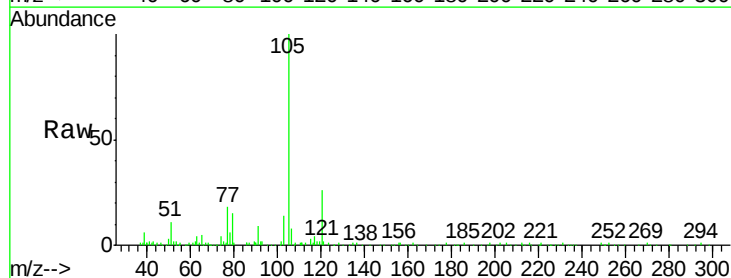
Acq: 10 May 2018 13:45

Tgt Ion:105 Resp: 79787

Ion Ratio Lower Upper

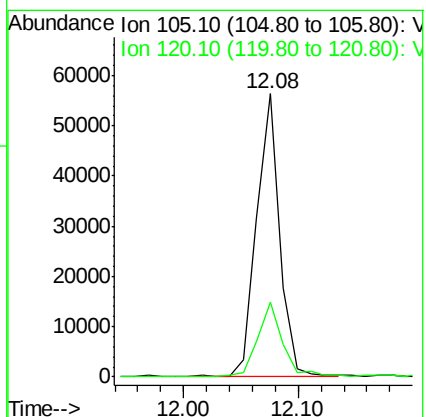
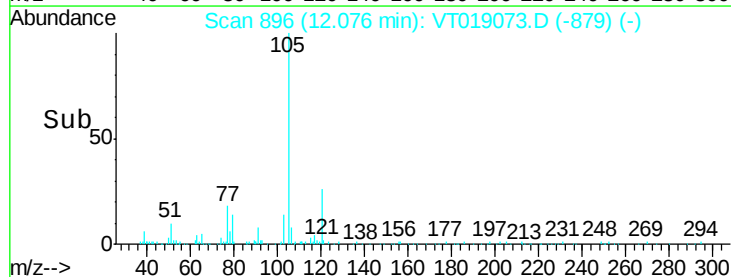
105 100

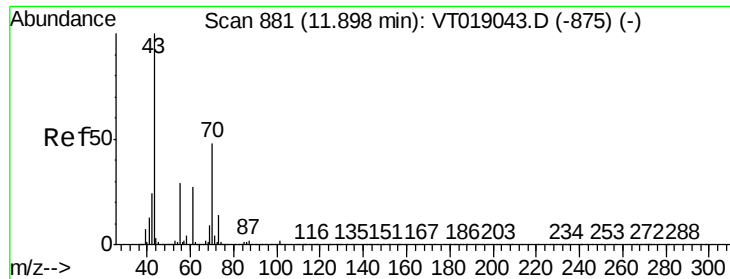
120 26.4 13.6 40.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.10 (119.80 to 120.80): V





#73

N-amvl acetate

Concen: 1.76 ug/l

RT: 11.90 min Scan# 881

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

Tot Ion: 43 Resp: 12996

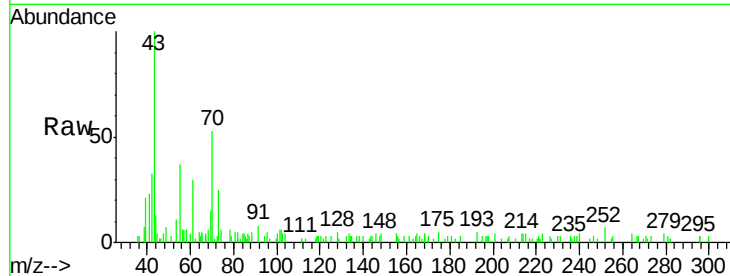
Ion Ratio Lower Upper

43 100

70 52.8 38.2 57.4

55 37.4 23.5 35.3#

61 30.4 21.7 32.5

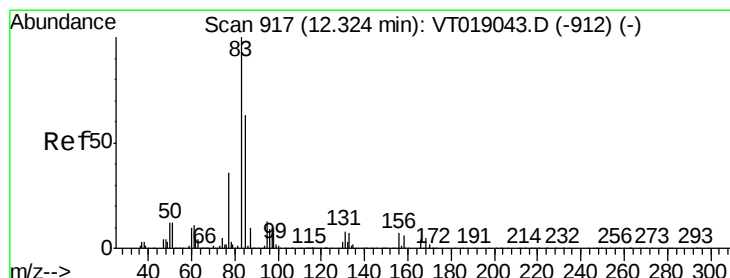
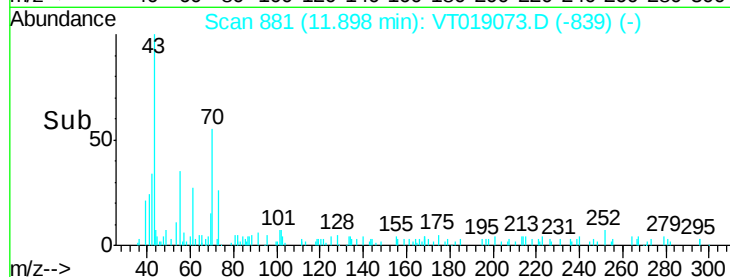
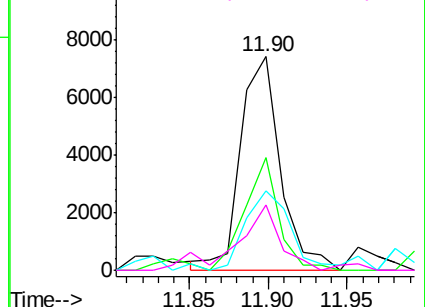


Abundance Ion 43.10 (42.80 to 43.80): VT0

Ion 70.10 (69.80 to 70.80): VT0

Ion 55.10 (54.80 to 55.80): VT0

Ion 61.10 (60.80 to 61.80): VT0



#74

1,1,2,2-Tetrachloroethane

Concen: 2.04 ug/l

RT: 12.32 min Scan# 917

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

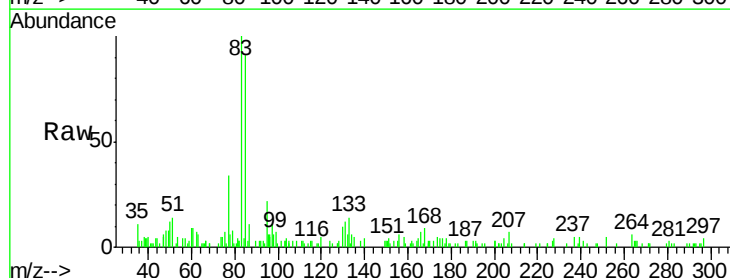
Tgt Ion: 83 Resp: 13462

Ion Ratio Lower Upper

83 100

131 12.3 4.0 12.2#

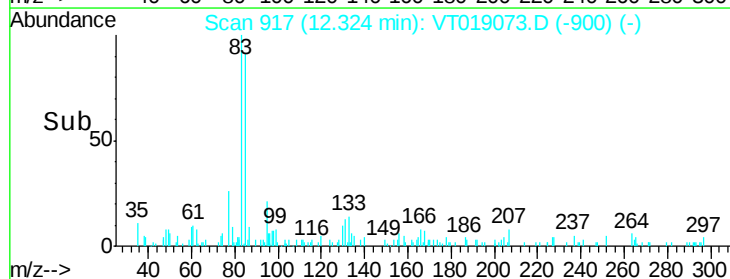
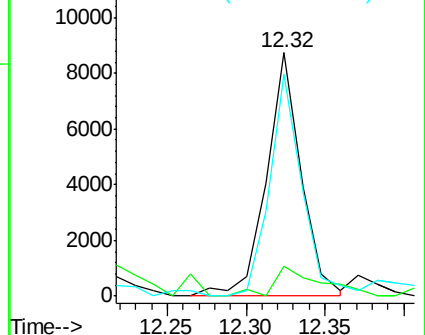
85 91.1 31.4 94.3

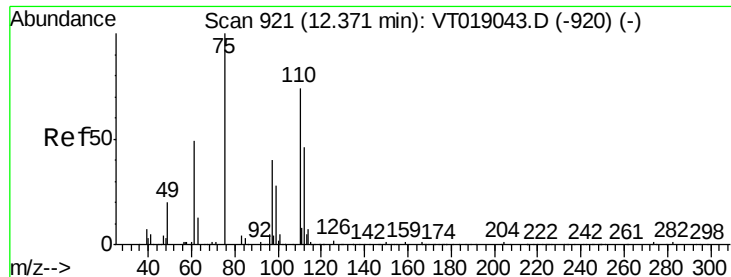


Abundance Ion 83.00 (82.70 to 83.70): VT0

Ion 131.00 (130.70 to 131.70): VT0

Ion 85.00 (84.70 to 85.70): VT0





#75

1,2,3-Trichloropropane

Concen: 2.14 ug/l m

RT: 12.37 min Scan# 921

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

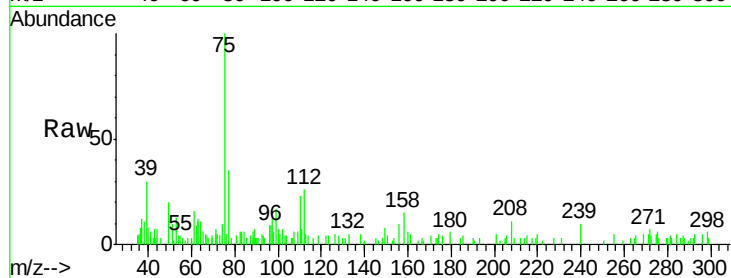
MDL-SOIL-03-QT2-2018DL

Tot Ion: 75 Resp: 10111

Ion Ratio Lower Upper

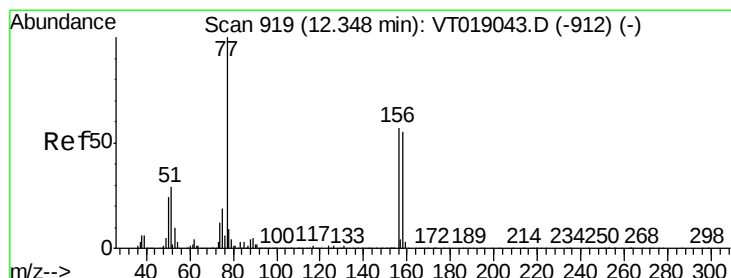
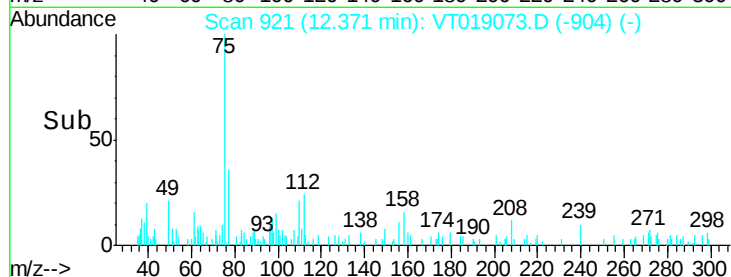
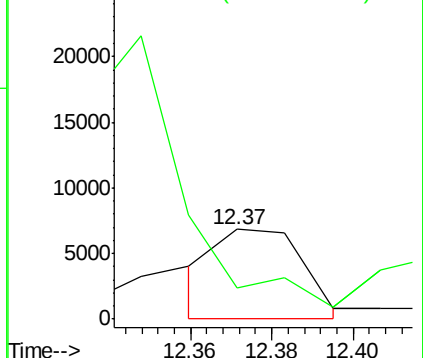
75 100

77 34.8 21.1 63.1



Abundance Ion 75.10 (74.80 to 75.80): VT0

Ion 77.10 (76.80 to 77.80): VT0



#76

Bromobenzene

Concen: 2.12 ug/l

RT: 12.35 min Scan# 919

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

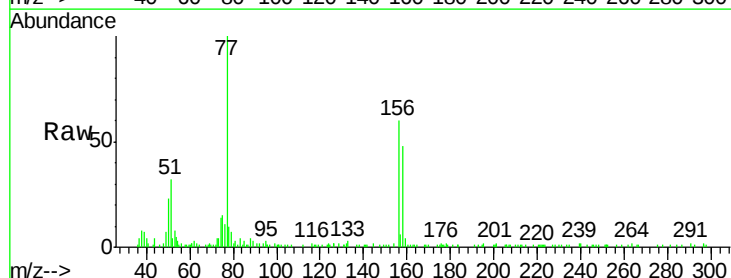
Tgt Ion: 156 Resp: 18772

Ion Ratio Lower Upper

156 100

77 166.2 87.8 263.4

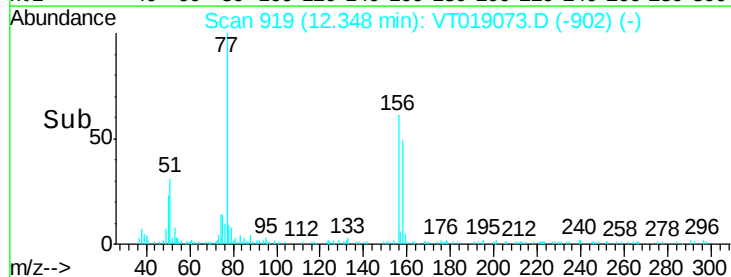
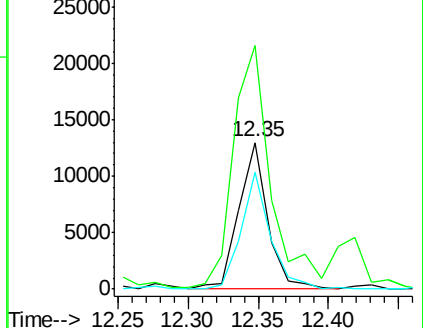
158 80.0 48.3 144.8

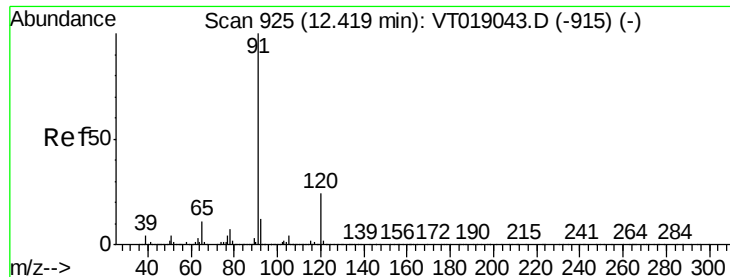


Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.10 (76.80 to 77.80): VT0

Ion 158.00 (157.70 to 158.70): V





#77

n-propylbenzene

Concen: 2.84 ug/l

RT: 12.42 min Scan# 925

Delta R.T. 0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

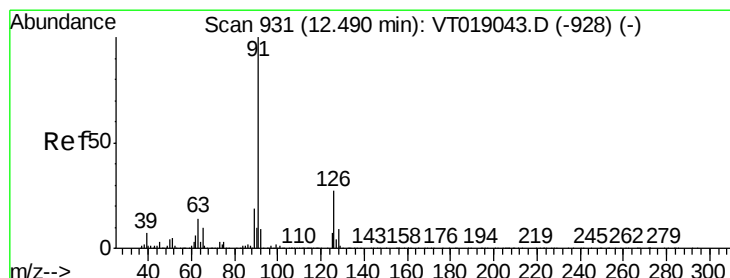
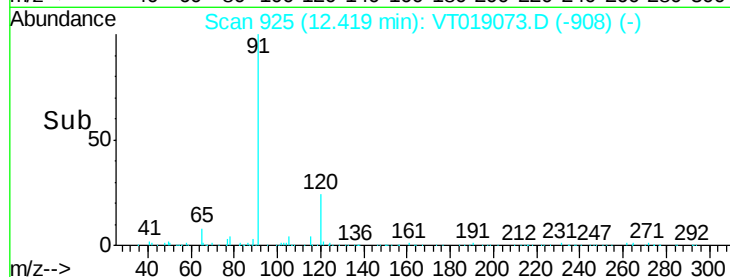
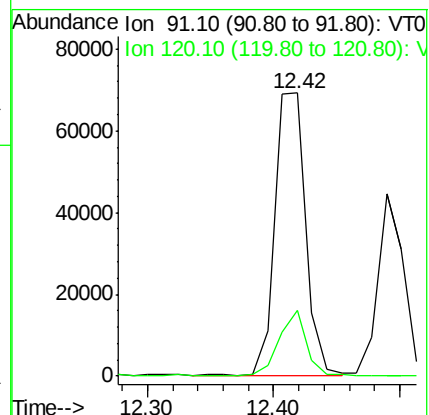
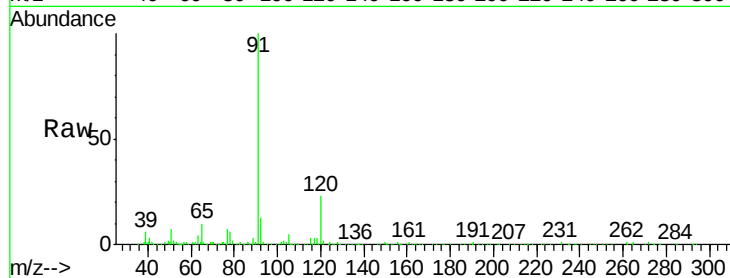
MDL-SOIL-03-QT2-2018DL

Tot Ion: 91 Resp: 118516

Ion Ratio Lower Upper

91 100

120 23.4 12.0 36.1



#78

2-Chlorotoluene

Concen: 1.95 ug/l

RT: 12.49 min Scan# 931

Delta R.T. -0.00 min

Lab File: VT019073.D

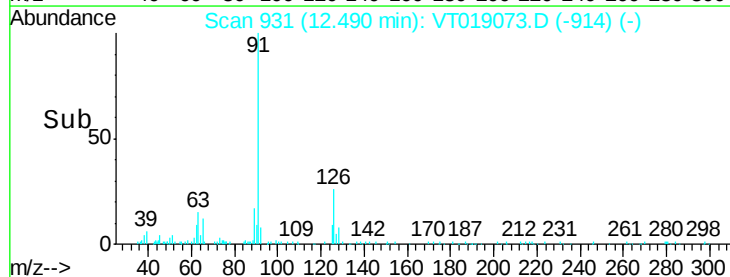
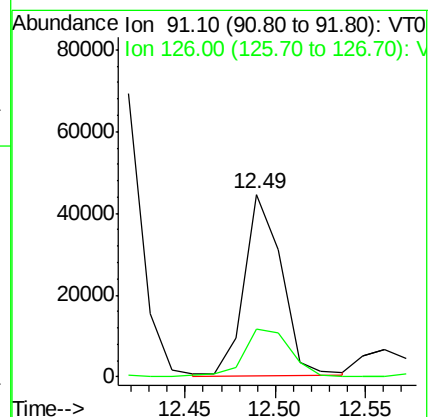
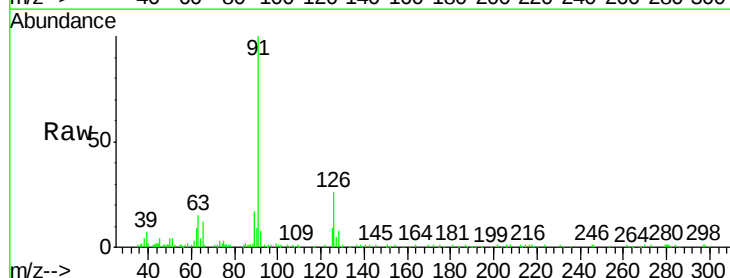
Acq: 10 May 2018 13:45

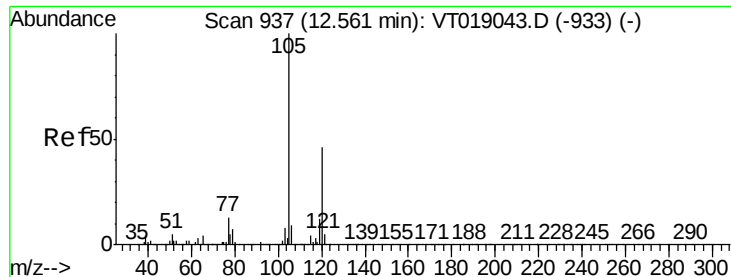
Tgt Ion: 91 Resp: 63911

Ion Ratio Lower Upper

91 100

126 26.1 13.5 40.5

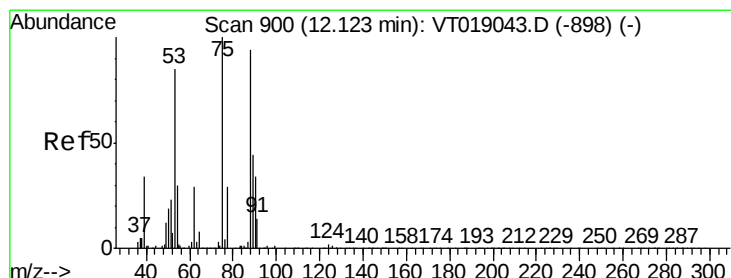
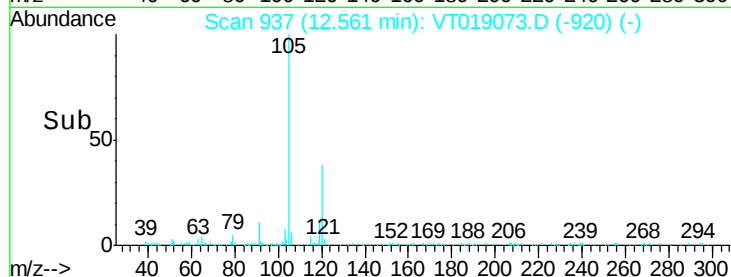
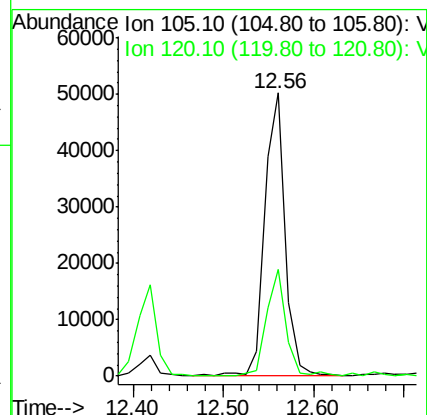
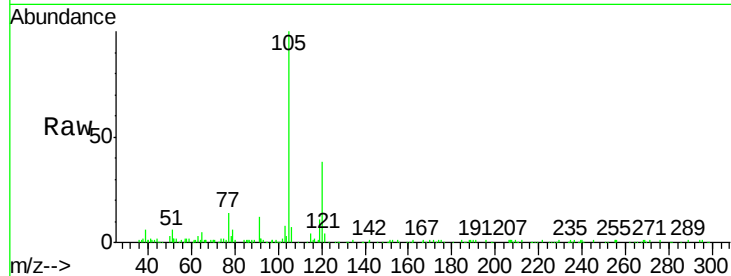




#79
 1,3,5-Trimethylbenzene
 Concen: 2.05 ug/l
 RT: 12.56 min Scan# 937
 Delta R.T. -0.00 min
 Lab File: VT019073.D
 Acq: 10 May 2018 13:45

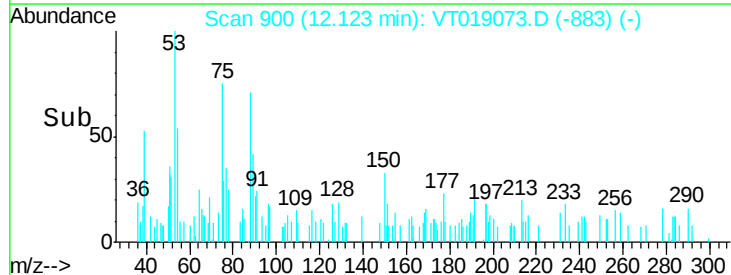
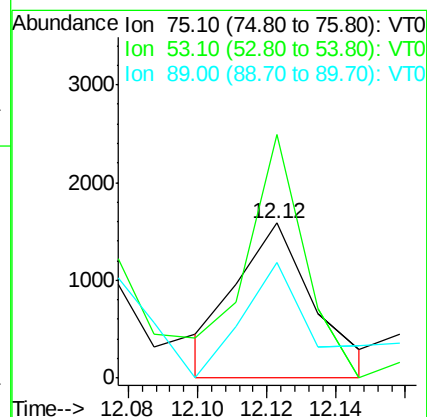
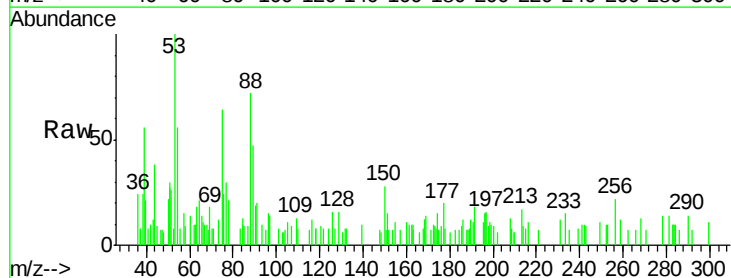
Instrument :
 MSVOA_T
 ClientSampleId :
 MDL-SOIL-03-QT2-2018DL

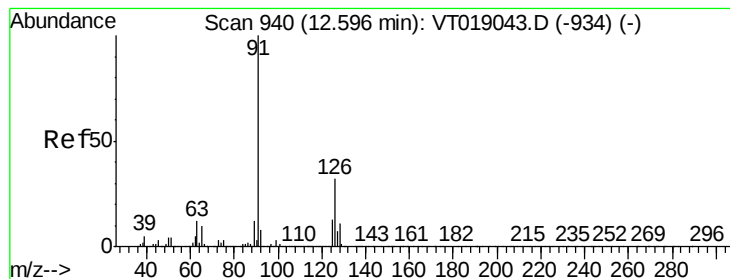
Tot Ion:105 Resp: 79485
 Ion Ratio Lower Upper
 105 100
 120 37.7 23.2 69.5



#80
 trans-1,4-Dichloro-2-butene
 Concen: 1.40 ug/l m
 RT: 12.12 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VT019073.D
 Acq: 10 May 2018 13:45

Tgt Ion: 75 Resp: 2476
 Ion Ratio Lower Upper
 75 100
 53 157.4 70.8 106.2#
 89 74.5 35.8 53.8#





#81

4-Chlorotoluene

Concen: 1.95 ug/l

RT: 12.60 min Scan# 940

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

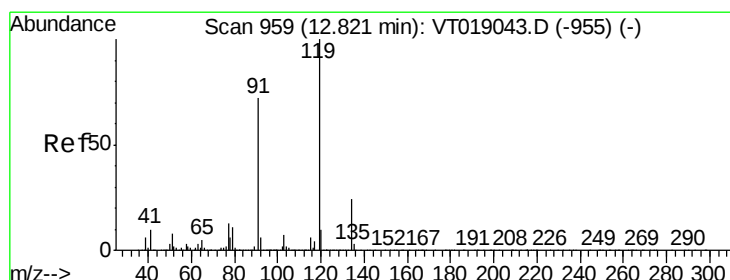
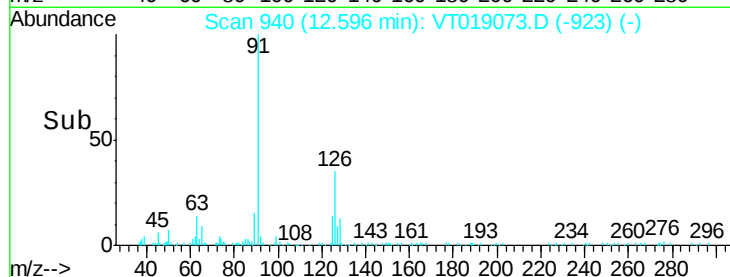
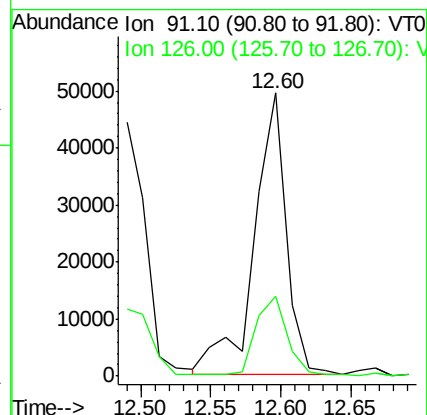
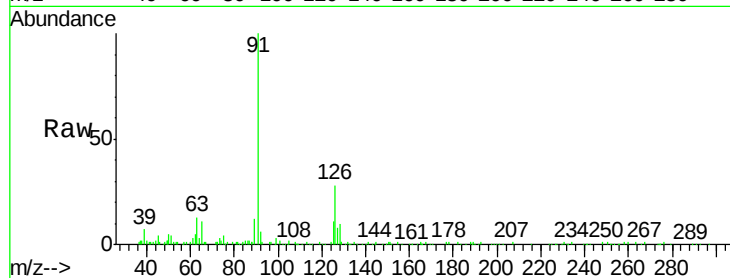
MDL-SOIL-03-QT2-2018DL

Tot Ion: 91 Resp: 78008

Ion Ratio Lower Upper

91 100

126 28.2 16.0 47.9



#82

tert-Butylbenzene

Concen: 2.22 ug/l

RT: 12.82 min Scan# 959

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

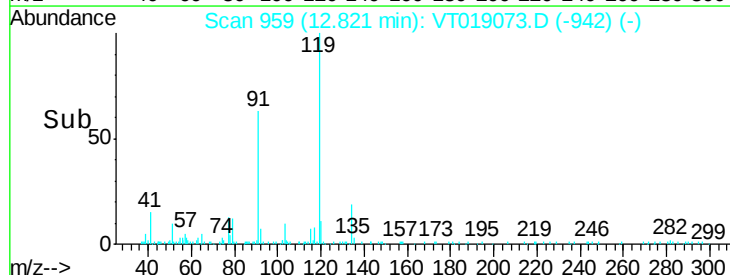
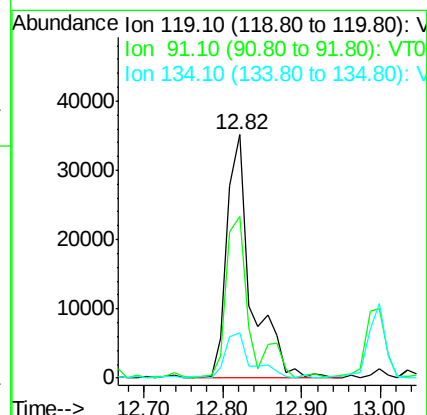
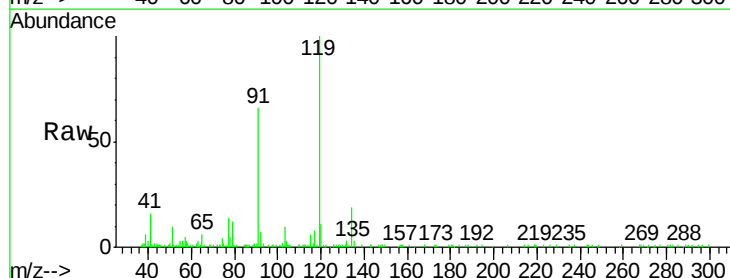
Tgt Ion: 119 Resp: 75092

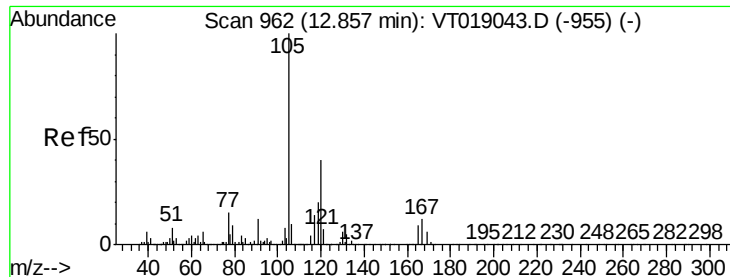
Ion Ratio Lower Upper

119 100

91 66.3 36.1 108.3

134 18.5 12.0 36.1





#83

1,2,4-Trimethylbenzene

Concen: 1.92 ug/l

RT: 12.86 min Scan# 962

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

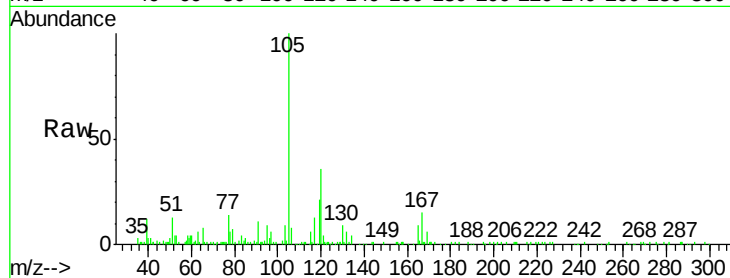
MDL-SOIL-03-QT2-2018DL

Tot Ion:105 Resp: 75527

Ion Ratio Lower Upper

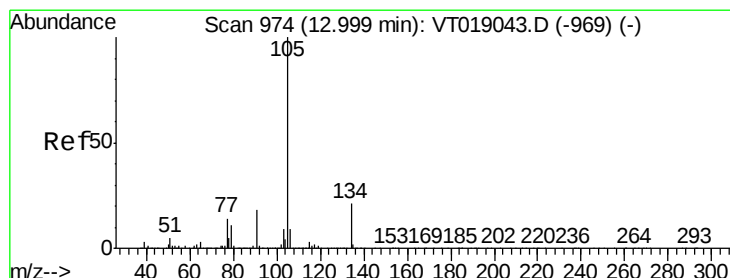
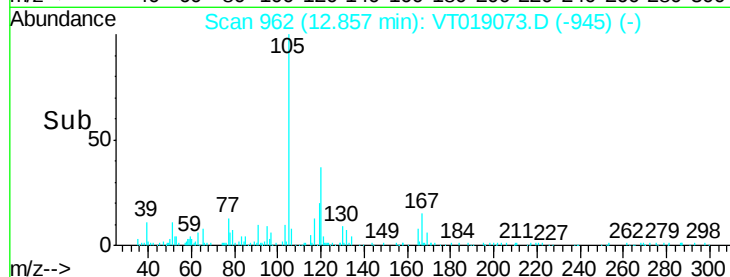
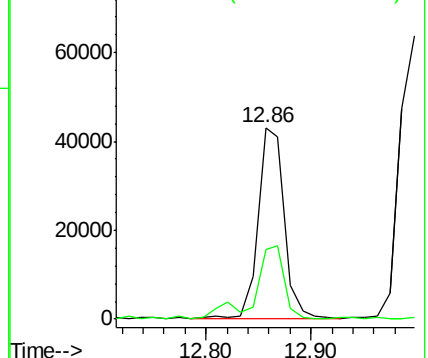
105 100

120 36.3 20.0 59.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.10 (119.80 to 120.80): V



#84

sec-Butylbenzene

Concen: 2.01 ug/l

RT: 13.00 min Scan# 974

Delta R.T. -0.00 min

Lab File: VT019073.D

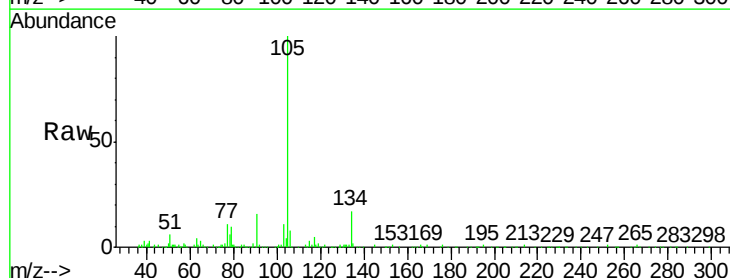
Acq: 10 May 2018 13:45

Tgt Ion:105 Resp: 96100

Ion Ratio Lower Upper

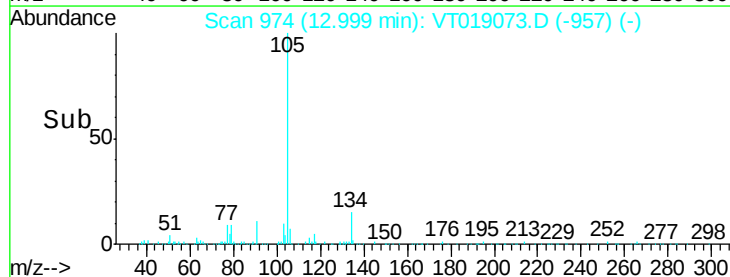
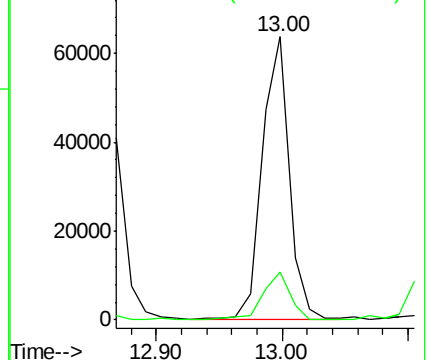
105 100

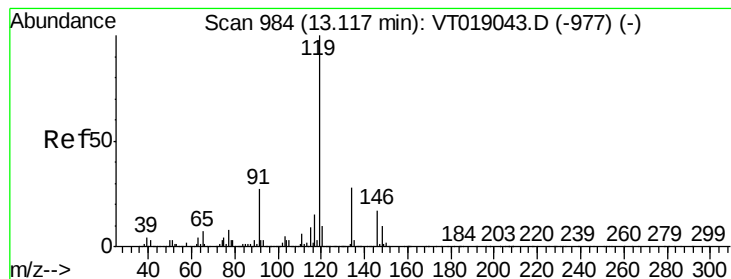
134 16.8 10.4 31.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 134.10 (133.80 to 134.80): V





#85

p-Isopropyltoluene

Concen: 1.93 ug/l

RT: 13.12 min Scan# 984

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

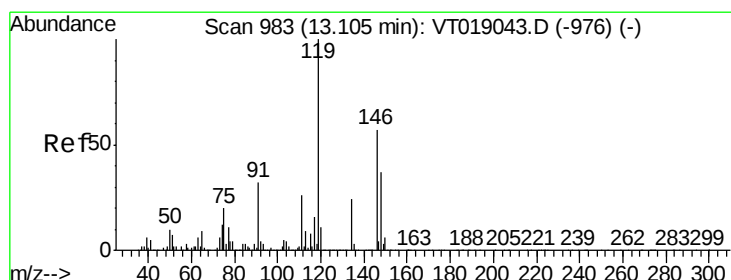
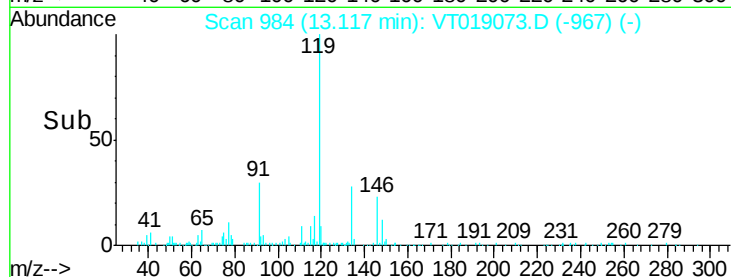
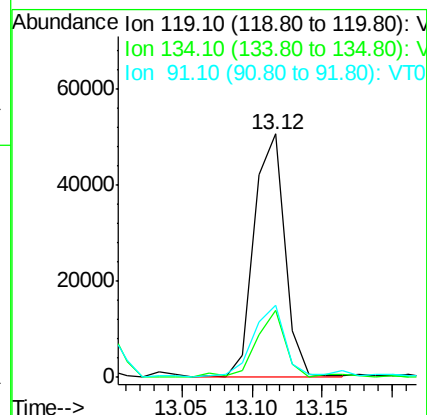
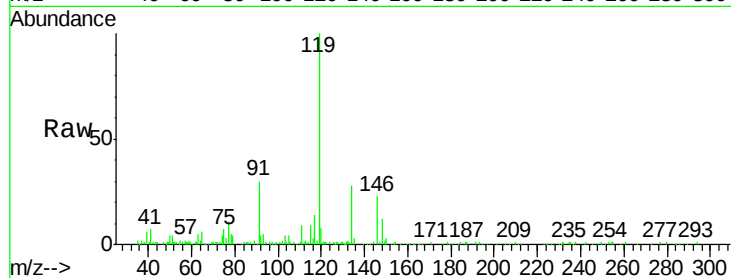
Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

Tot Ion:	119	Resp:	77347
Ion	Ratio	Lower	Upper
119	100		
134	27.6	14.1	42.3
91	29.6	13.5	40.4



#86

1,3-Dichlorobenzene

Concen: 2.11 ug/l

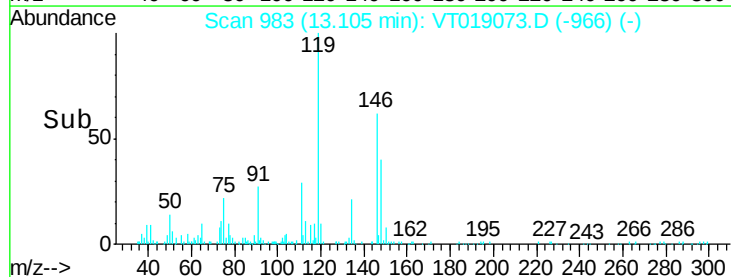
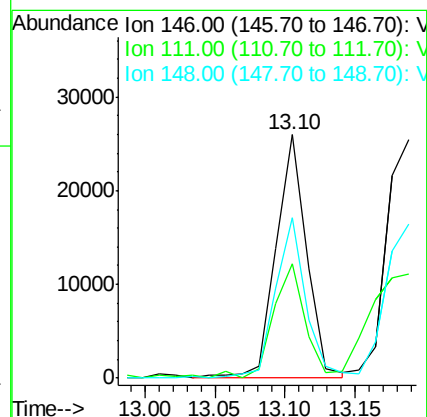
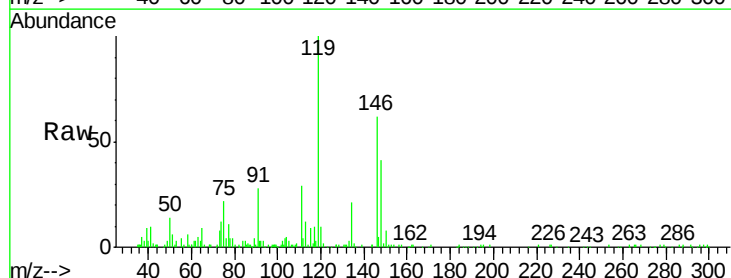
RT: 13.10 min Scan# 983

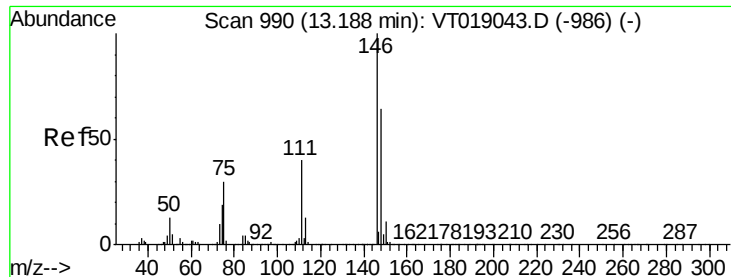
Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Tgt Ion:	146	Resp:	39390
Ion	Ratio	Lower	Upper
146	100		
111	46.9	23.1	69.2
148	65.8	32.5	97.5

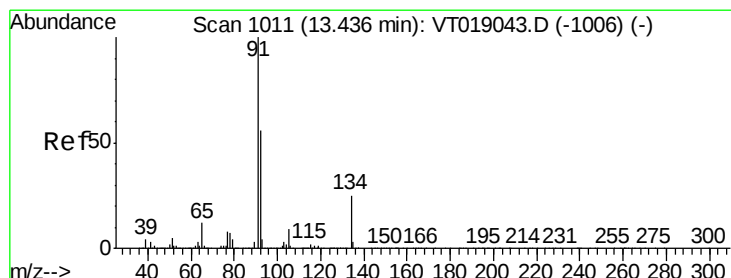
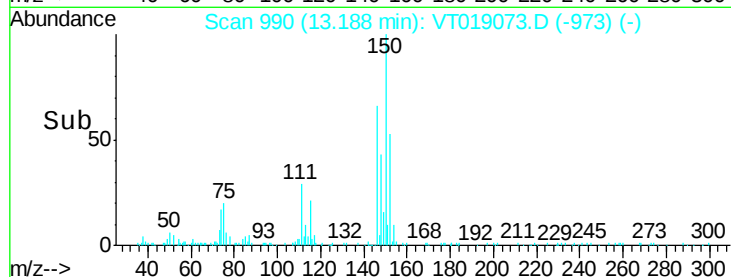
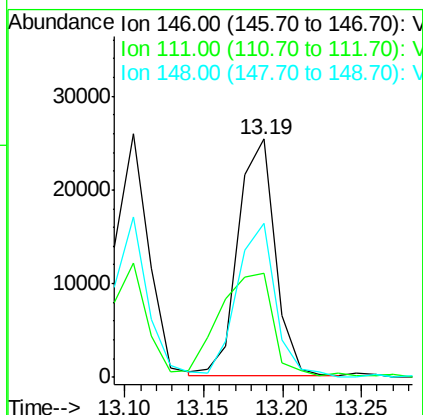
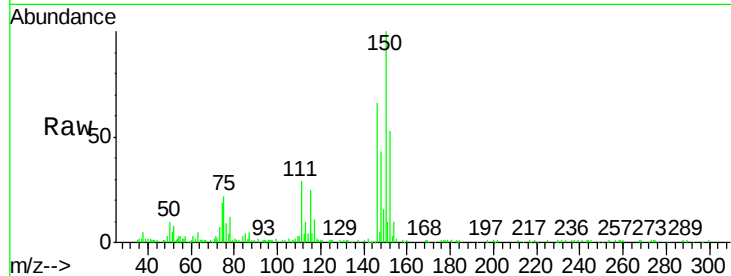




#87
 1,4-Dichlorobenzene
 Concen: 2.26 ug/l
 RT: 13.19 min Scan# 990
 Delta R.T. -0.00 min
 Lab File: VT019073.D
 Acq: 10 May 2018 13:45

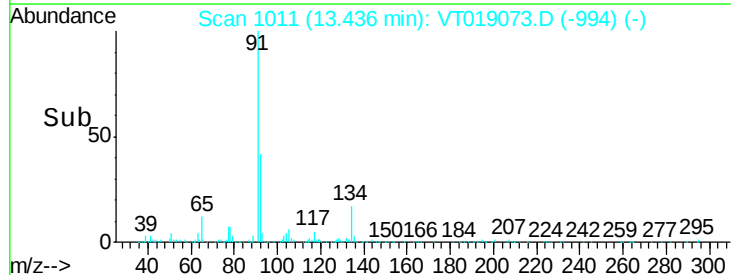
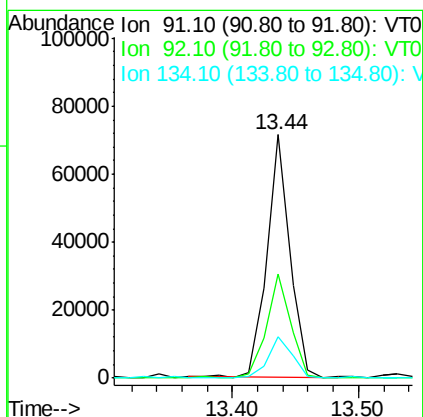
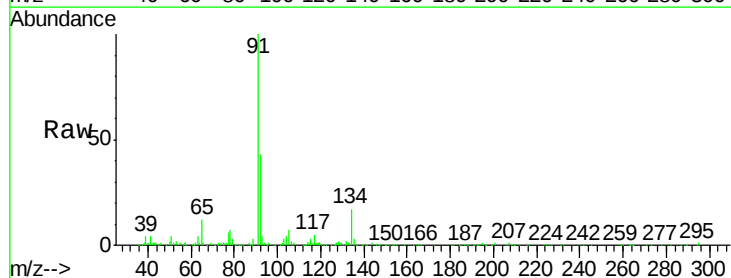
Instrument :
 MSVOA_T
 ClientSampleId :
 MDL-SOIL-03-QT2-2018DL

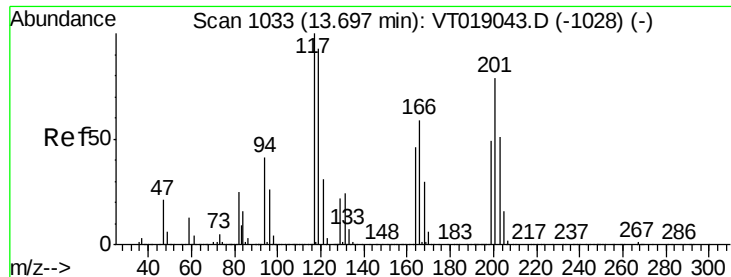
Tot Ion	Ratio	Lower	Upper
146	100		
111	43.5	20.3	60.8
148	64.6	32.3	96.8



#88
 n-Butylbenzene
 Concen: 2.13 ug/l
 RT: 13.44 min Scan# 1011
 Delta R.T. -0.00 min
 Lab File: VT019073.D
 Acq: 10 May 2018 13:45

Tgt Ion	Ratio	Lower	Upper
91	100		
92	42.6	28.0	84.0
134	17.1	12.4	37.0





#89

Hexachloroethane

Concen: 1.92 ug/l

RT: 13.70 min Scan# 1033

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

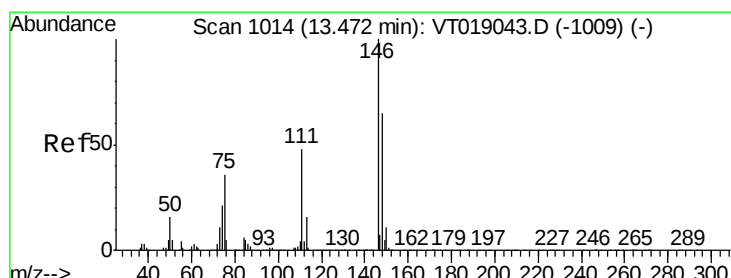
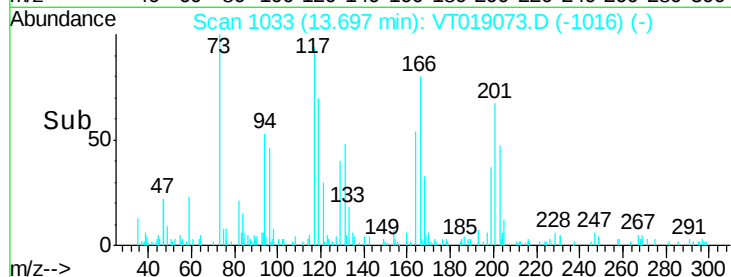
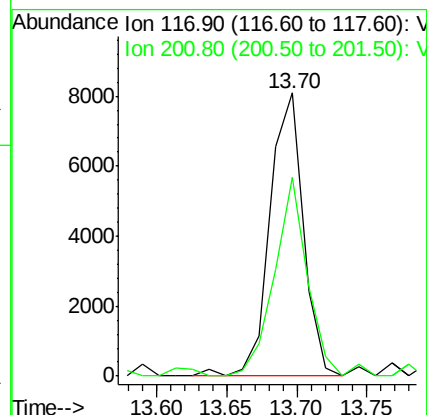
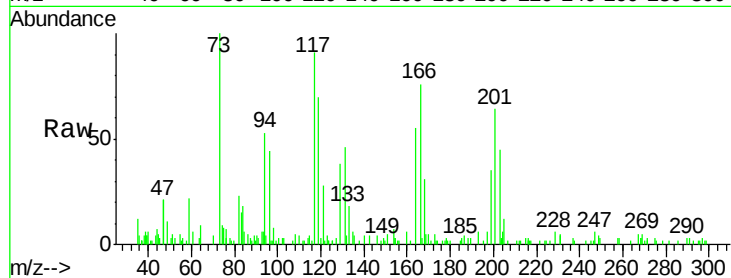
MDL-SOIL-03-QT2-2018DL

Tot Ion:117 Resp: 13390

Ion Ratio Lower Upper

117 100

201 70.2 39.4 118.1



#90

1,2-Dichlorobenzene

Concen: 2.10 ug/l

RT: 13.47 min Scan# 1014

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

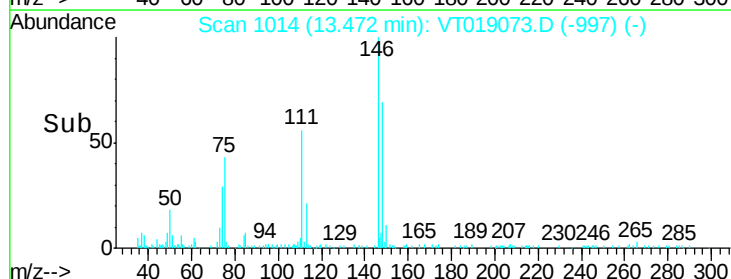
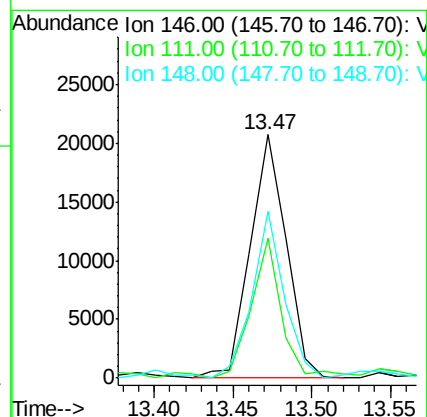
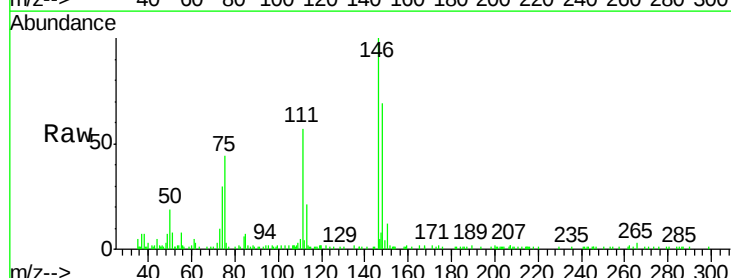
Tgt Ion:146 Resp: 32799

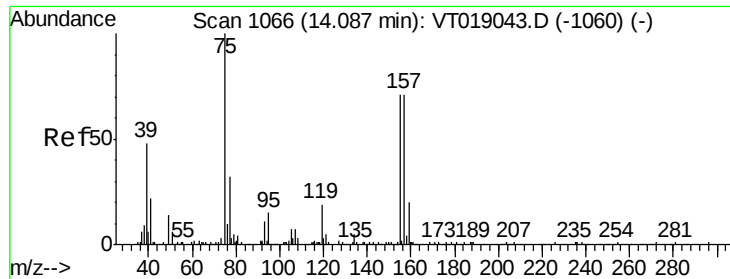
Ion Ratio Lower Upper

146 100

111 54.5 23.8 71.2

148 65.2 32.7 98.1





#91

1,2-Dibromo-3-Chloropropane

Concen: 3.07 ug/l

RT: 14.08 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

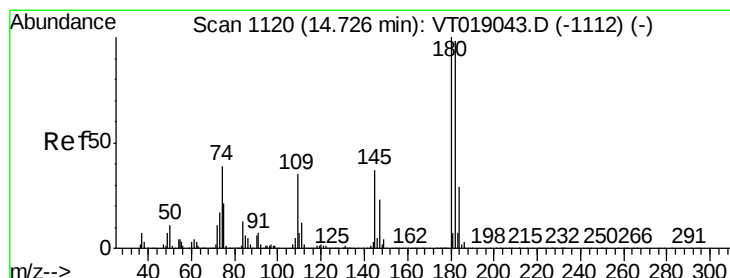
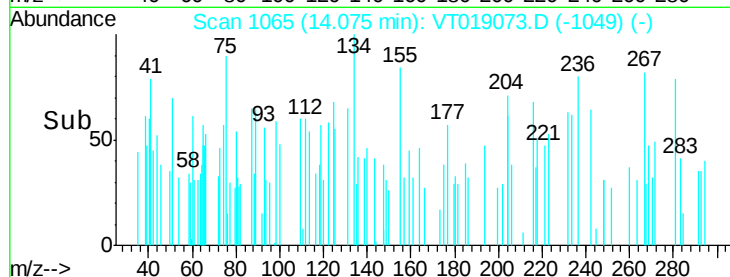
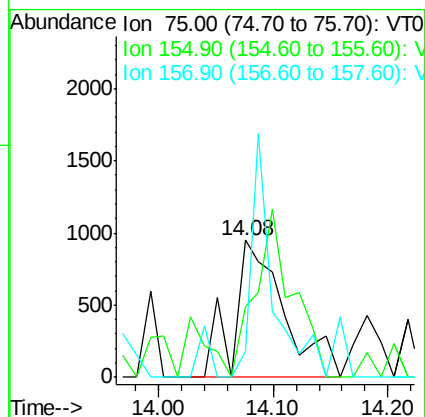
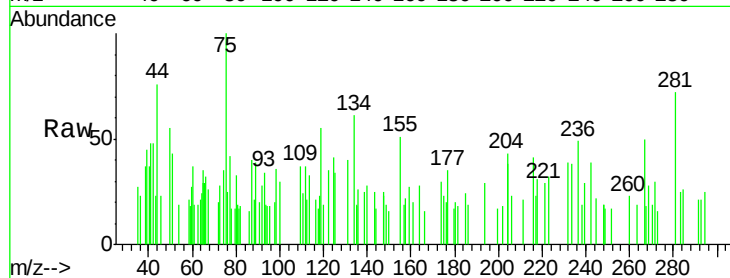
Tot Ion: 75 Resp: 2917

Ion Ratio Lower Upper

75 100

155 51.4 35.6 106.8

157 40.9 35.8 107.3



#92

1,2,4-Trichlorobenzene

Concen: 1.86 ug/l

RT: 14.73 min Scan# 1120

Delta R.T. -0.00 min

Lab File: VT019073.D

Acq: 10 May 2018 13:45

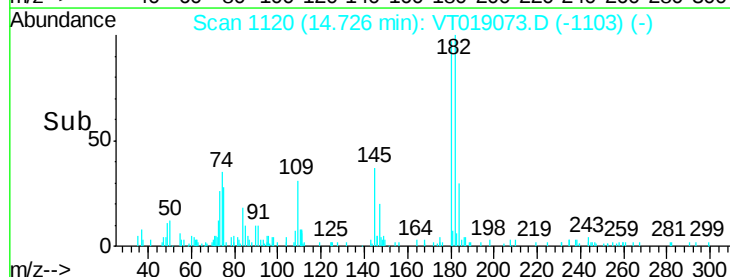
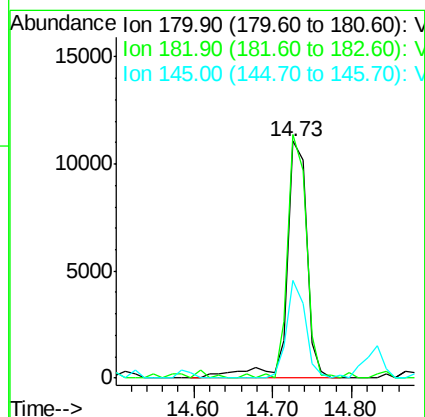
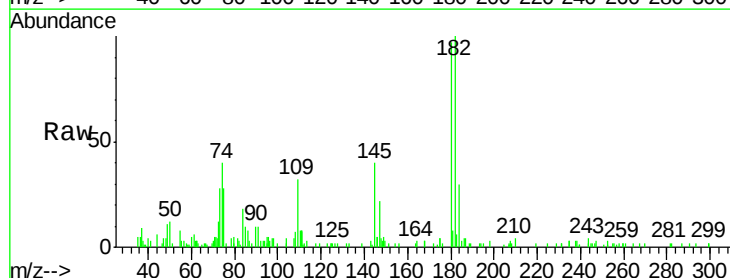
Tgt Ion:180 Resp: 19399

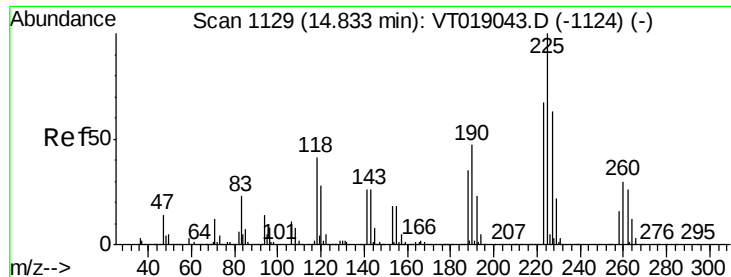
Ion Ratio Lower Upper

180 100

182 102.8 49.0 147.0

145 41.0 18.3 54.9

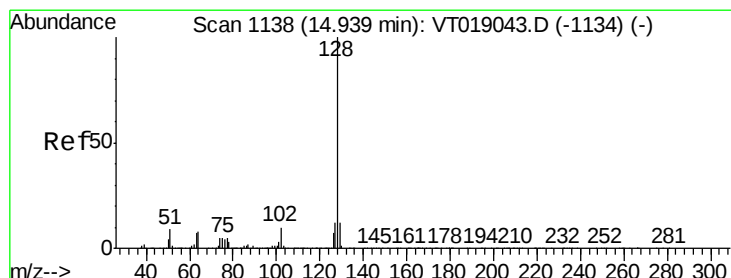
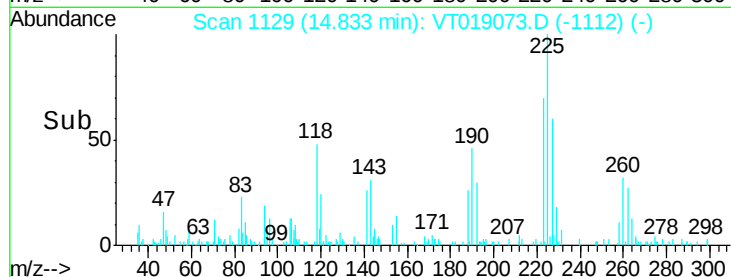
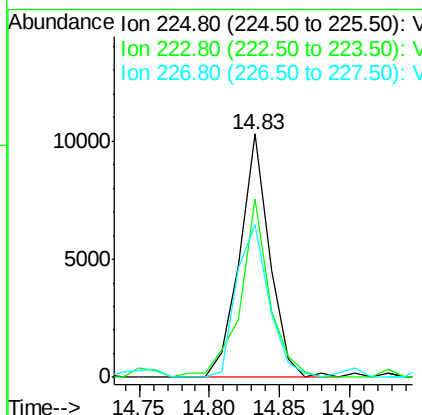
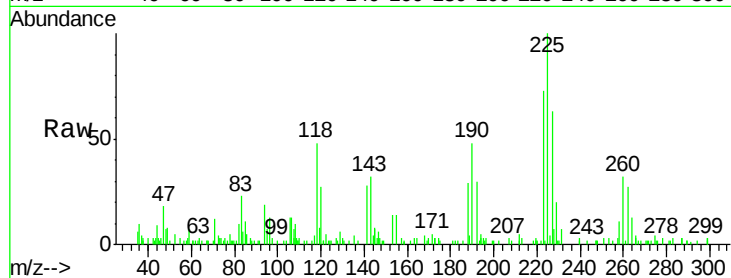




#93
Hexachlorobutadiene
Concen: 2.00 ug/l
RT: 14.83 min Scan# 1129
Delta R.T. -0.00 min
Lab File: VT019073.D
Acq: 10 May 2018 13:45

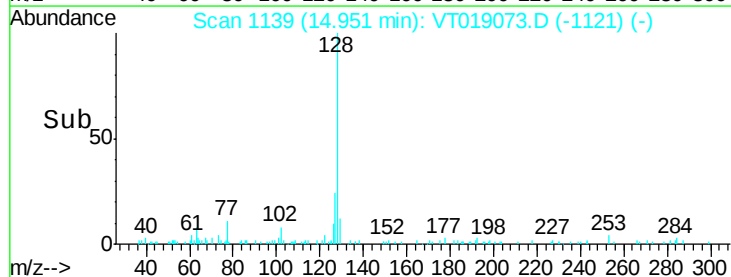
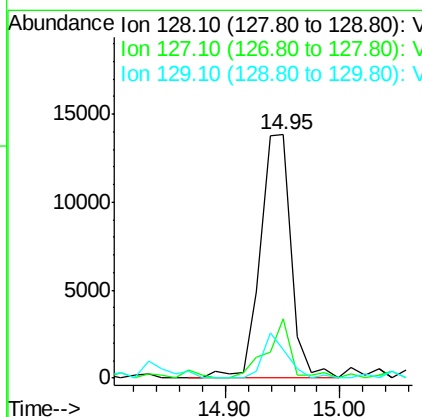
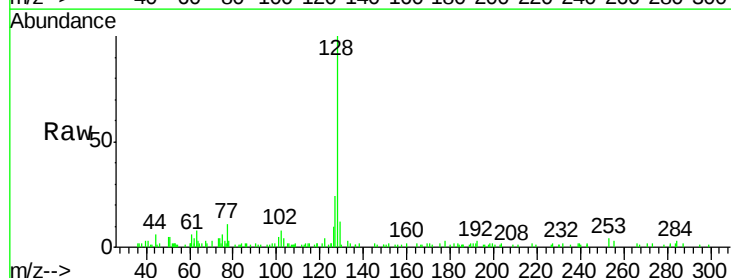
Instrument :
MSVOA_T
ClientSampleId :
MDL-SOIL-03-QT2-2018DL

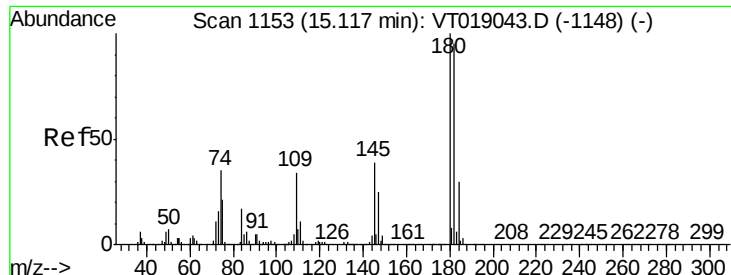
Tot Ion:225 Resp: 15270
Ion Ratio Lower Upper
225 100
223 73.1 33.5 100.4
227 62.7 31.7 95.1



#94
Naphthalene
Concen: 1.54 ug/l
RT: 14.95 min Scan# 1139
Delta R.T. 0.01 min
Lab File: VT019073.D
Acq: 10 May 2018 13:45

Tgt Ion:128 Resp: 26005
Ion Ratio Lower Upper
128 100
127 24.4 9.9 14.9#
129 11.8 9.3 13.9





#95
 1,2,3-Trichlorobenzene
 Concen: 1.85 ug/l
 RT: 15.12 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VT019073.D
 Acq: 10 May 2018 13:45

Instrument :
 MSVOA_T
 ClientSampleId :
 MDL-SOIL-03-QT2-2018DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	88.5	47.7	143.1
145	35.7	19.4	58.1

