

Data Path : W:\HPCHEM1\MSVOA T\DATA\VT050918\
 Data File : VT019055.D
 Acq On : 9 May 2018 13:52
 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 10 12:03:53 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	1040257	50.00	ug/l	0.00
33) 1,4-Difluorobenzene	8.38	114	1823526	50.00	ug/l	0.00
62) Chlorobenzene-d5	11.22	117	1514395	50.00	ug/l	0.00
71) 1,4-Dichlorobenzene-d4	13.16	152	657816	50.00	ug/l	0.00

System Monitoring Compounds

32) 1,2-Dichloroethane-d4	7.80	65	529698	53.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.28%	
34) Dibromofluoromethane	7.35	113	541122	52.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.98%	
49) Toluene-d8	9.90	98	2402033	54.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.66%	
61) 4-Bromofluorobenzene	12.22	95	844491	51.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.40%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.78	85	33293	2.50	ug/l	86
3) Chloromethane	1.95	50	11364	2.51	ug/l #	64
4) Vinyl Chloride	2.11	62	17748	2.42	ug/l	88
5) Bromomethane	2.44	94	12909	2.16	ug/l	98
6) Chloroethane	2.59	64	9651	2.14	ug/l #	43
7) Trichlorofluoromethane	2.85	101	40119m	2.04	ug/l	
8) Diethyl Ether	3.21	74	6328	2.12	ug/l	68
9) 1,1,2-Trichlorotrifluoroet	3.60	101	25089	2.63	ug/l #	74
10) Methyl Iodide	3.77	142	29827	2.15	ug/l #	85
11) Tert butyl alcohol	4.53	59	6767	13.55	ug/l #	74
12) 1,1-Dichloroethene	3.56	96	18287	2.16	ug/l #	93
13) Acrolein	3.40	56	3399	13.94	ug/l #	68
14) Allyl chloride	4.06	41	38319	2.09	ug/l	91
15) Acrylonitrile	4.70	53	20741	10.78	ug/l #	82
16) Acetone	3.59	43	17653	16.84	ug/l #	62
18) Methyl Acetate	4.08	43	14072	2.61	ug/l #	70
19) Methyl tert-butyl Ether	4.76	73	37045	1.74	ug/l #	79
20) Methylene Chloride	4.28	84	29623m	2.62	ug/l	
21) trans-1,2-Dichloroethene	4.74	96	23795	1.90	ug/l	95
22) Diisopropyl ether	5.69	45	62803	1.85	ug/l #	95
23) Vinyl Acetate	5.61	43	123214	8.18	ug/l	99
24) 1,1-Dichloroethane	5.56	63	49860	2.10	ug/l #	97
25) 2-Butanone	6.58	43	25483	10.80	ug/l	96
26) 2,2-Dichloropropane	6.56	77	22685	2.37	ug/l	97
27) cis-1,2-Dichloroethene	6.57	96	22600	1.84	ug/l	85
28) Bromochloromethane	6.94	49	17812	2.26	ug/l	89
29) Chloroform	7.13	83	42905	1.93	ug/l	100
30) Cyclohexane	7.43	56	67735	2.63	ug/l #	66
31) 1,1,1-Trichloroethane	7.33	97	33160	1.93	ug/l #	84
35) 1,1-Dichloropropene	7.57	75	36933	1.76	ug/l #	89
36) Ethyl Acetate	6.67	43	10390	1.92	ug/l #	91
37) Carbon Tetrachloride	7.54	117	26837	1.56	ug/l #	90
38) Methylcyclohexane	8.88	83	41308	1.65	ug/l #	92
39) Benzene	7.82	78	114921	2.09	ug/l #	1

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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Methacrylonitrile	6.92	41	4506	1.88	ug/l #	67
41) 1,2-Dichloroethane	7.91	62	21123	1.77	ug/l	78
42) Isopropyl Acetate	7.96	43	15905	1.71	ug/l #	95
43) Trichloroethene	8.63	130	21791	1.73	ug/l	73
44) 1,2-Dichloropropane	8.92	63	26036	2.02	ug/l #	84
45) Dibromomethane	9.01	93	9172m	1.81	ug/l	
46) Bromodichloromethane	9.21	83	25676	1.75	ug/l #	82
47) Methyl methacrylate	9.01	41	7863	1.63	ug/l #	71
48) 1,4-Dioxane	9.01	88	1133	8.33	ug/l #	32
50) 4-Methyl-2-Pentanone	9.80	43	42215	8.26	ug/l	100
51) Toluene	9.97	92	64989	2.05	ug/l	85
52) t-1,3-Dichloropropene	10.21	75	20710	1.55	ug/l	96
53) cis-1,3-Dichloropropene	9.65	75	26450	1.55	ug/l	94
54) 1,1,2-Trichloroethane	10.38	97	15719	2.05	ug/l #	83
55) Ethyl methacrylate	10.25	69	13445	1.46	ug/l	95
56) 1,3-Dichloropropane	10.53	76	25030	1.82	ug/l #	78
57) 2-Chloroethyl Vinyl ether	9.51	63	31168	7.35	ug/l	100
58) 2-Hexanone	10.57	43	29631	7.99	ug/l	99
59) Dibromochloromethane	10.73	129	12051	1.51	ug/l	97
60) 1,2-Dibromoethane	10.82	107	11608	1.75	ug/l	93
63) Tetrachloroethene	10.45	164	20798	2.01	ug/l	86
64) Chlorobenzene	11.25	112	66382	2.12	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.33	131	19032	1.87	ug/l	85
66) Ethyl Benzene	11.33	91	117410	1.95	ug/l	99
67) m/p-Xylenes	11.45	106	79744	3.57	ug/l	84
68) o-Xylene	11.77	106	31868	1.52	ug/l	90
69) Styrene	11.79	104	51290	1.58	ug/l	92
70) Bromoform	11.95	173	6441	1.66	ug/l #	80
72) Isopropylbenzene	12.08	105	99923	1.88	ug/l	95
73) N-amyl acetate	11.90	43	16336	1.87	ug/l #	92
74) 1,1,2,2-Tetrachloroethane	12.32	83	17045	2.18	ug/l	95
75) 1,2,3-Trichloropropane	12.37	75	21072	3.77	ug/l	93
76) Bromobenzene	12.35	156	20394	1.94	ug/l	58
77) n-propylbenzene	12.42	91	149346	2.94	ug/l	95
78) 2-Chlorotoluene	12.49	91	84020	2.16	ug/l	97
79) 1,3,5-Trimethylbenzene	12.56	105	90577	1.96	ug/l	95
80) trans-1,4-Dichloro-2-buten	12.12	75	3814m	1.81	ug/l	
81) 4-Chlorotoluene	12.60	91	95052	2.01	ug/l	90
82) tert-Butylbenzene	12.82	119	79166	1.97	ug/l	98
83) 1,2,4-Trimethylbenzene	12.86	105	88045	1.88	ug/l	92
84) sec-Butylbenzene	13.00	105	107793	1.90	ug/l	92
85) p-Isopropyltoluene	13.12	119	86165	1.81	ug/l	99
86) 1,3-Dichlorobenzene	13.10	146	44832	2.02	ug/l	92
87) 1,4-Dichlorobenzene	13.19	146	52487	2.43	ug/l	93
88) n-Butylbenzene	13.44	91	98799	1.94	ug/l	96
89) Hexachloroethane	13.68	117	13571	1.64	ug/l #	53
90) 1,2-Dichlorobenzene	13.47	146	39482	2.13	ug/l	90
91) 1,2-Dibromo-3-Chloropropan	14.10	75	2606	2.31	ug/l #	66
92) 1,2,4-Trichlorobenzene	14.73	180	25551	2.06	ug/l	77
93) Hexachlorobutadiene	14.83	225	17790	1.96	ug/l	81

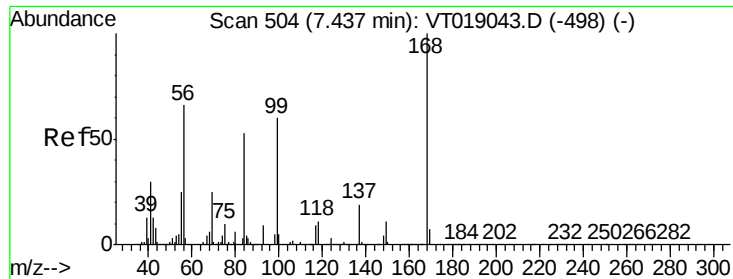
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Quant Title : SW846 8260
QLast Update : Thu May 10 07:01:04 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Naphthalene	14.94	128	33539	1.67	ug/l #	93
95) 1,2,3-Trichlorobenzene	15.12	180	20346	1.99	ug/l	78

(#) = 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: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

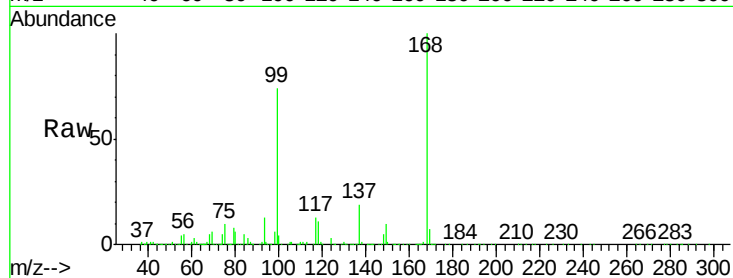
MDL-SOIL-03-QT2-2018DL

Tot Ion:168 Resp: 1040257

Ion Ratio Lower Upper

168 100

99 73.9 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

400000

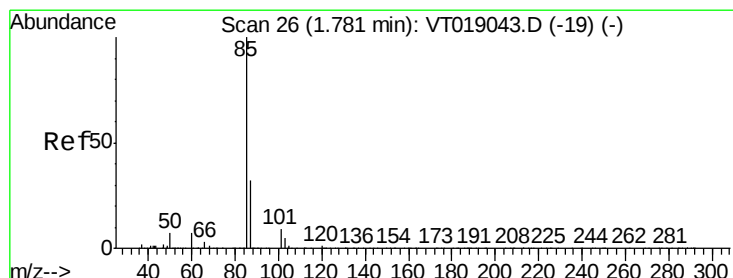
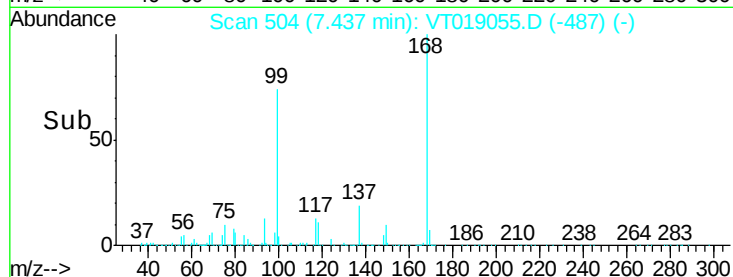
300000

200000

100000

0

Time--> 7.20 7.40 7.60



#2

Dichlorodifluoromethane

Concen: 2.50 ug/l

RT: 1.78 min Scan# 26

Delta R.T. -0.00 min

Lab File: VT019055.D

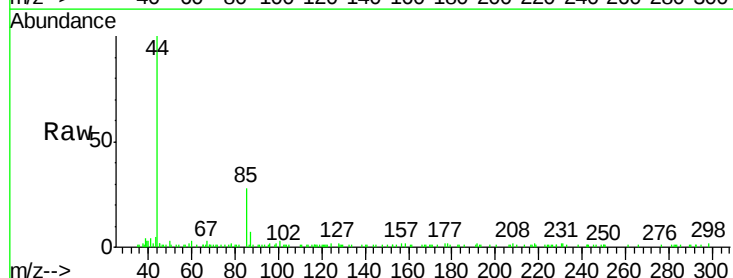
Acq: 9 May 2018 13:52

Tgt Ion: 85 Resp: 33293

Ion Ratio Lower Upper

85 100

87 24.5 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

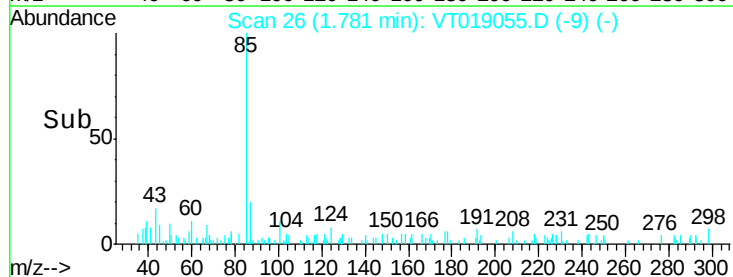
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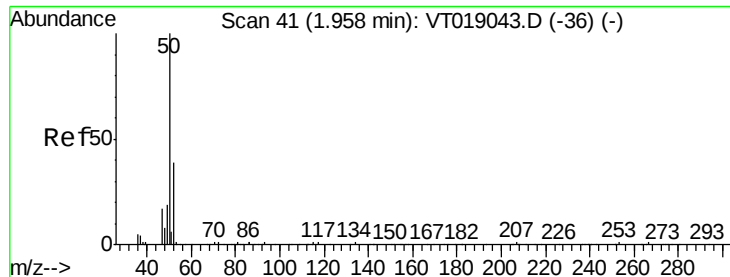
4000

2000

0

Time--> 1.60 1.70 1.80 1.90





#3

Chloromethane

Concen: 2.51 ug/l

RT: 1.95 min Scan# 40

Delta R.T. -0.01 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

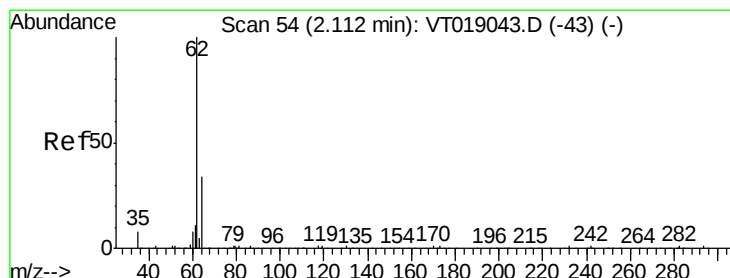
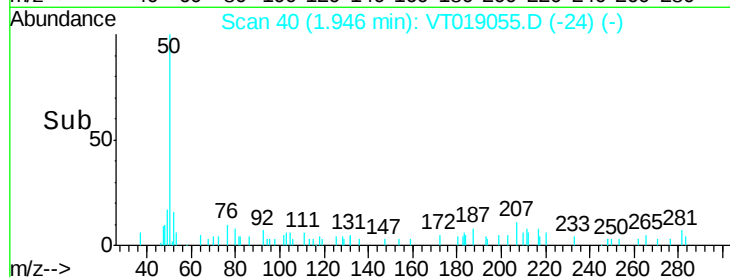
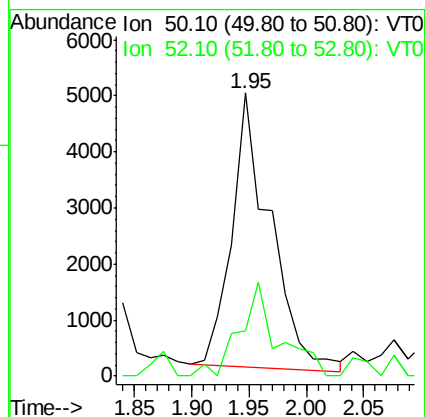
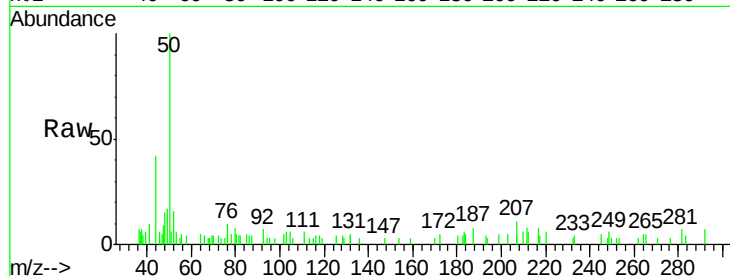
MDL-SOIL-03-QT2-2018DL

Tot Ion: 50 Resp: 11364

Ion Ratio Lower Upper

50 100

52 16.1 30.1 45.1#



#4

Vinyl Chloride

Concen: 2.42 ug/l

RT: 2.11 min Scan# 54

Delta R.T. -0.00 min

Lab File: VT019055.D

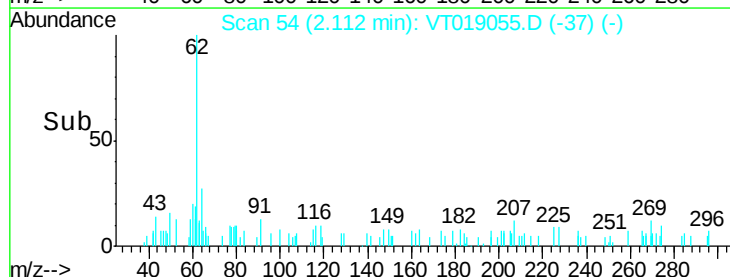
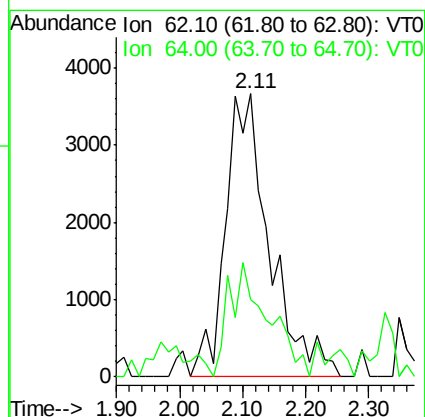
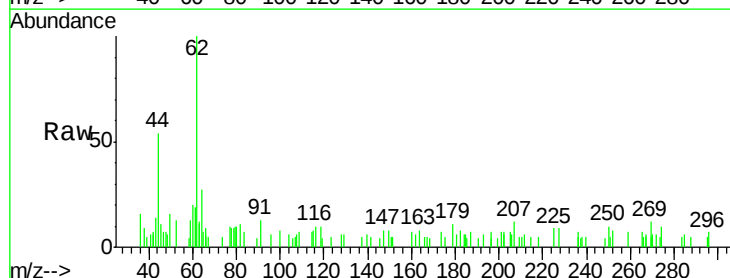
Acq: 9 May 2018 13:52

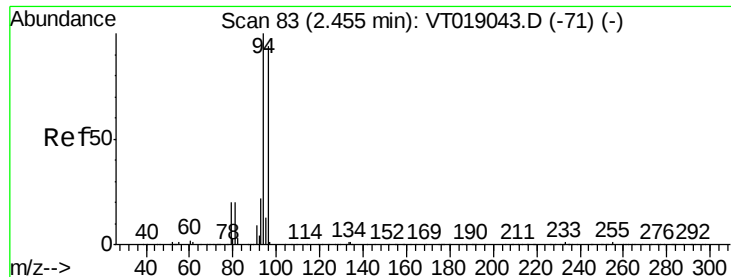
Tgt Ion: 62 Resp: 17748

Ion Ratio Lower Upper

62 100

64 27.1 27.0 40.4





#5

Bromomethane

Concen: 2.16 ug/l

RT: 2.44 min Scan# 82

Delta R.T. -0.01 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

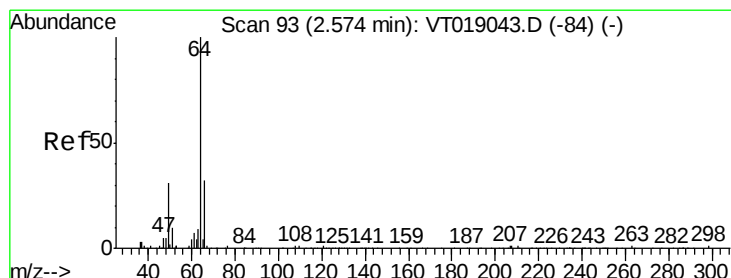
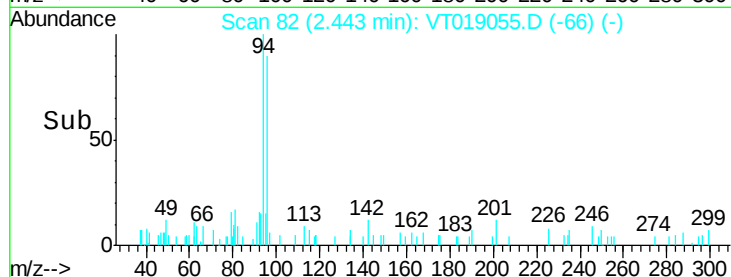
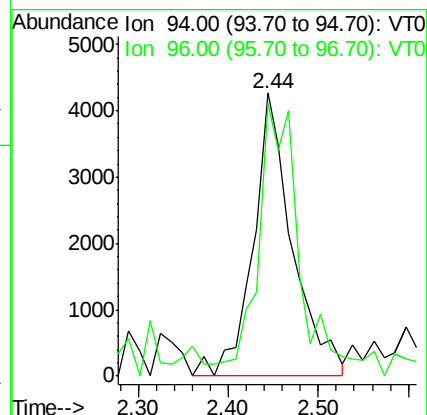
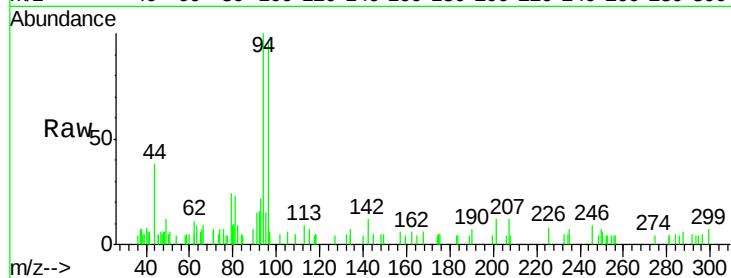
MDL-SOIL-03-QT2-2018DL

Tot Ion: 94 Resp: 12909

Ion Ratio Lower Upper

94 100

96 96.5 75.3 112.9



#6

Chloroethane

Concen: 2.14 ug/l

RT: 2.59 min Scan# 94

Delta R.T. 0.01 min

Lab File: VT019055.D

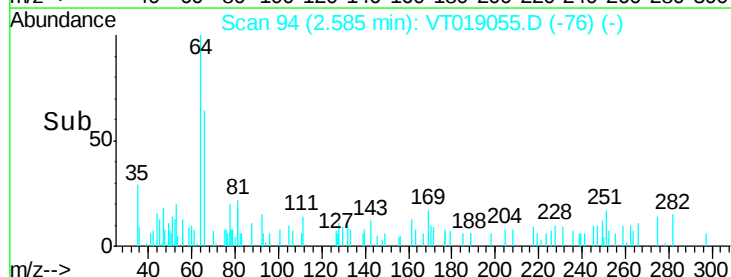
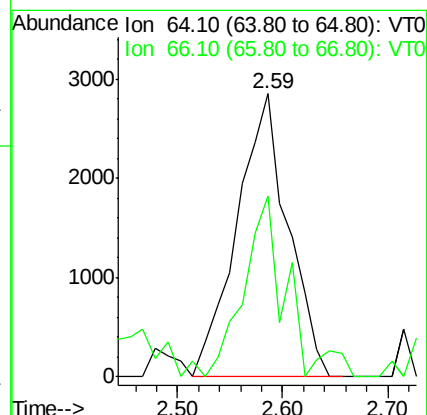
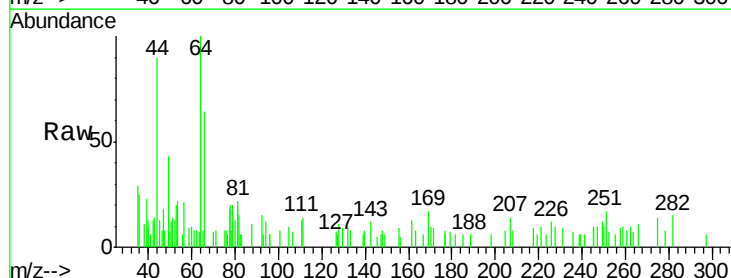
Acq: 9 May 2018 13:52

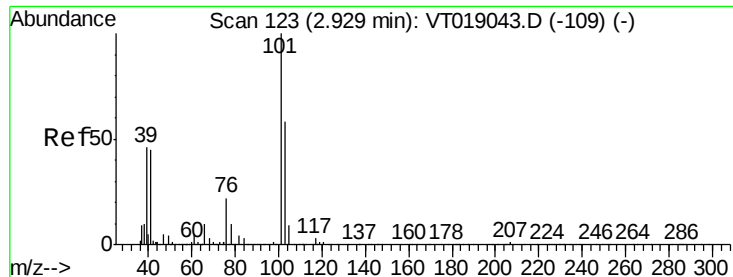
Tgt Ion: 64 Resp: 9651

Ion Ratio Lower Upper

64 100

66 64.0 25.8 38.8#



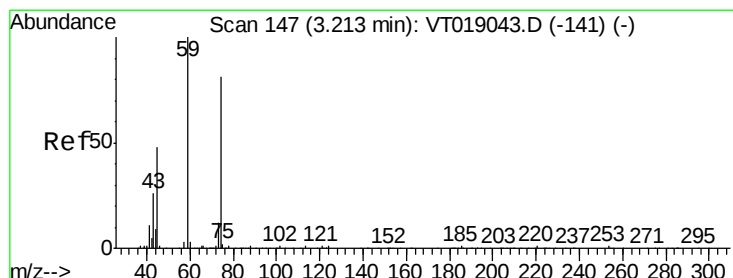
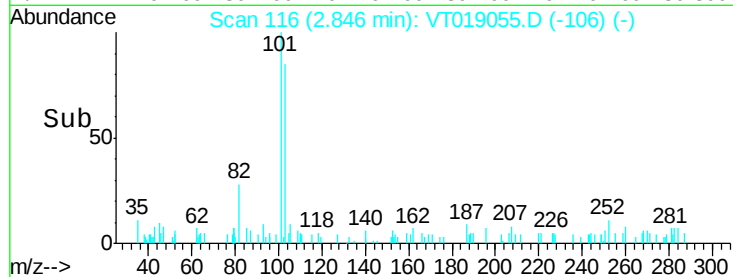
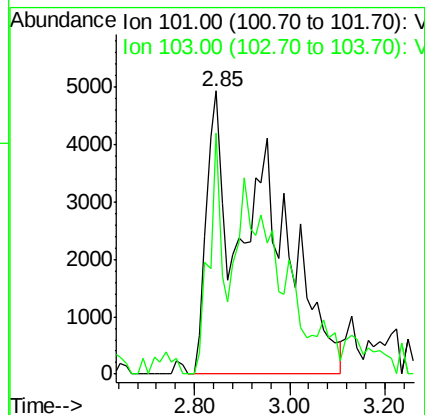
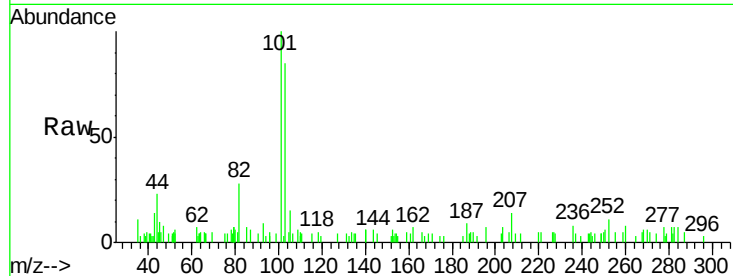


#7

Trichlorofluoromethane
 Concen: 2.04 ug/l m
 RT: 2.85 min Scan# 116
 Delta R.T. -0.08 min
 Lab File: VT019055.D
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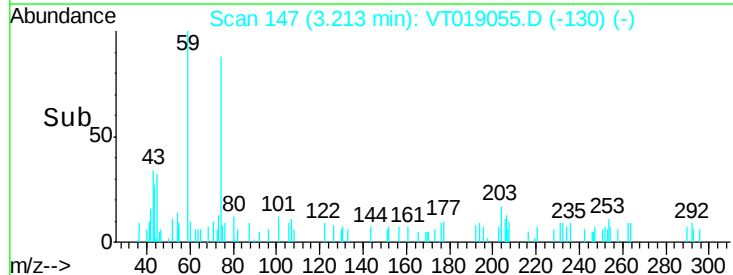
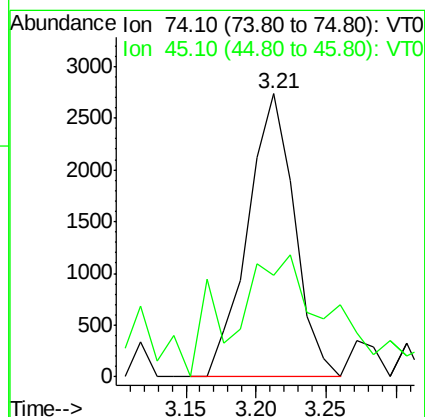
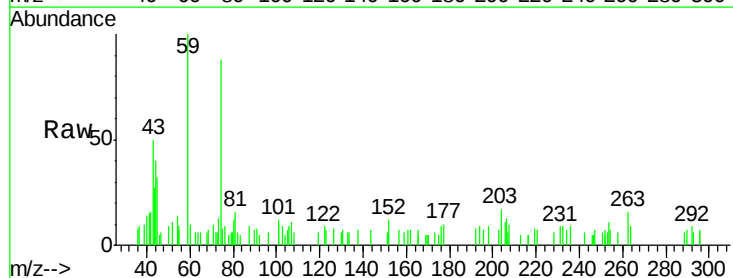
Tot Ion:101 Resp: 40119
 Ion Ratio Lower Upper
 101 100
 103 85.2 46.5 69.7#

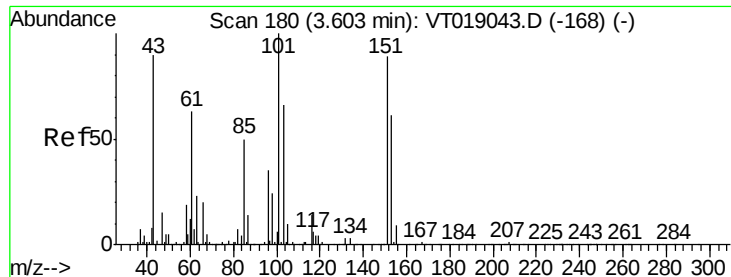


#8

Diethyl Ether
 Concen: 2.12 ug/l
 RT: 3.21 min Scan# 147
 Delta R.T. -0.00 min
 Lab File: VT019055.D
 Acq: 9 May 2018 13:52

Tgt Ion: 74 Resp: 6328
 Ion Ratio Lower Upper
 74 100
 45 35.8 29.8 89.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.63 ug/l

RT: 3.60 min Scan# 180

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

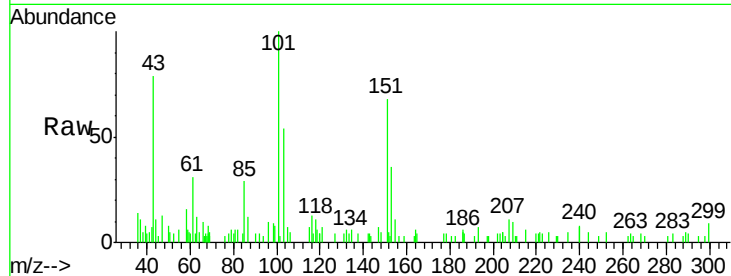
Tot Ion:101 Resp: 25089

Ion Ratio Lower Upper

101 100

85 28.0 39.5 59.3#

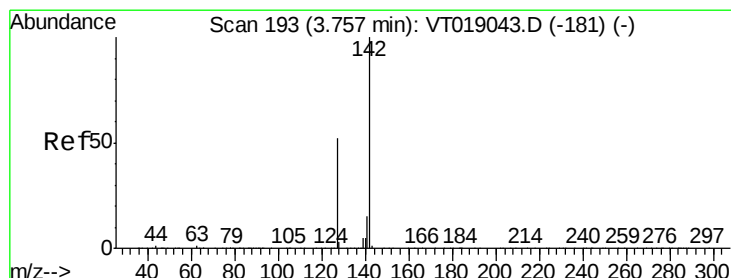
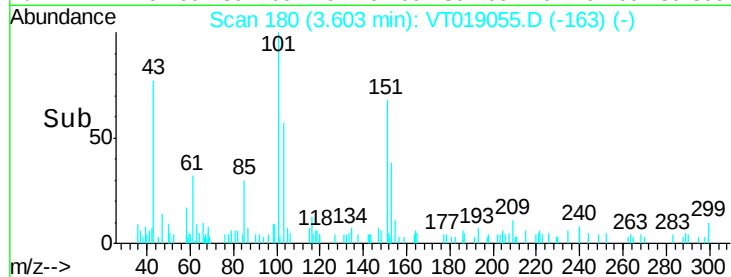
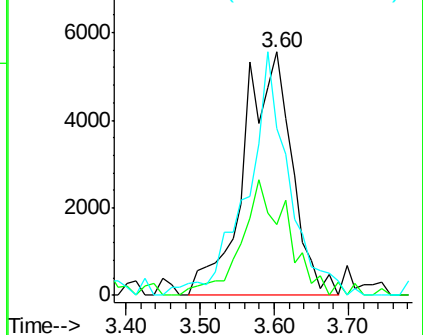
151 66.2 69.9 104.9#



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: 2.15 ug/l

RT: 3.77 min Scan# 194

Delta R.T. 0.01 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

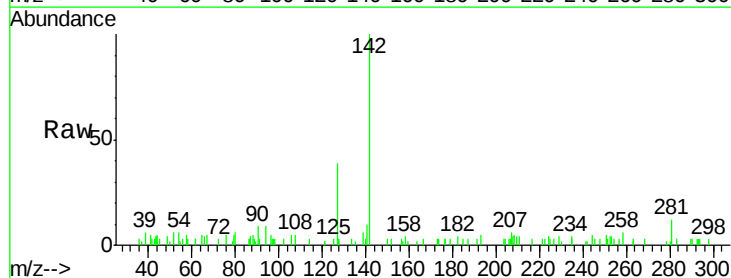
Tgt Ion:142 Resp: 29827

Ion Ratio Lower Upper

142 100

127 41.3 41.8 62.8#

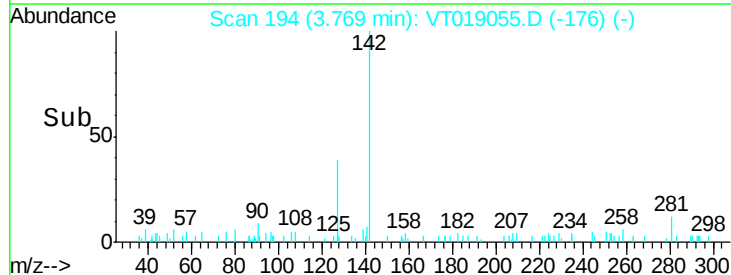
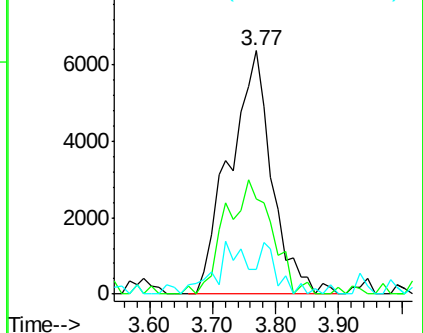
141 10.2 12.0 18.0#

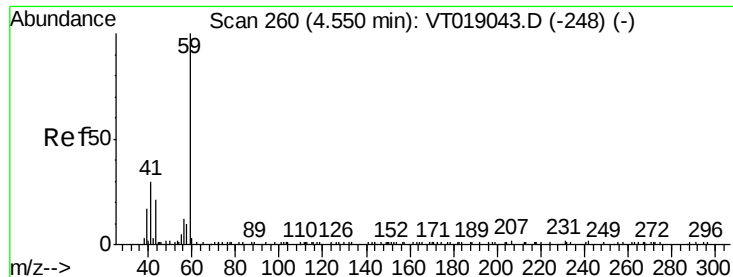


Abundance Ion 141.90 (141.60 to 142.60): V

Ion 126.90 (126.60 to 127.60): V

Ion 140.90 (140.60 to 141.60): V

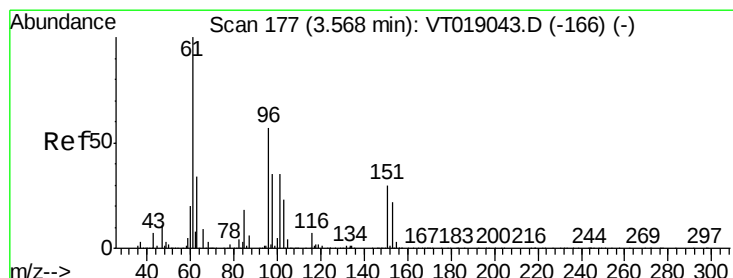
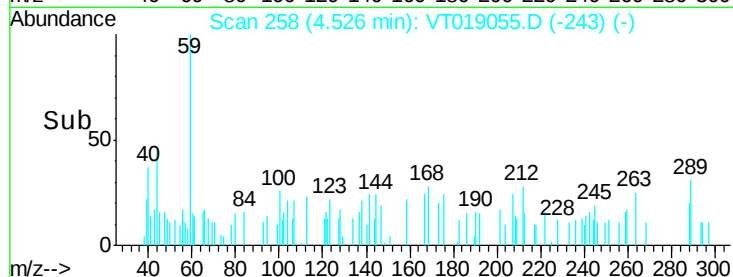
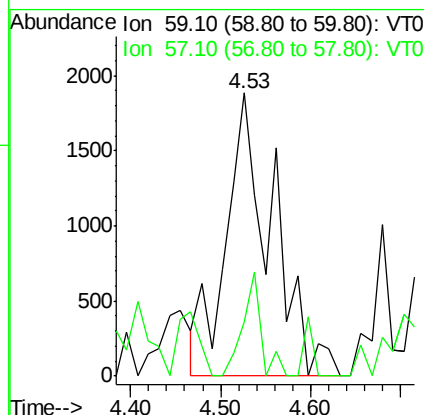
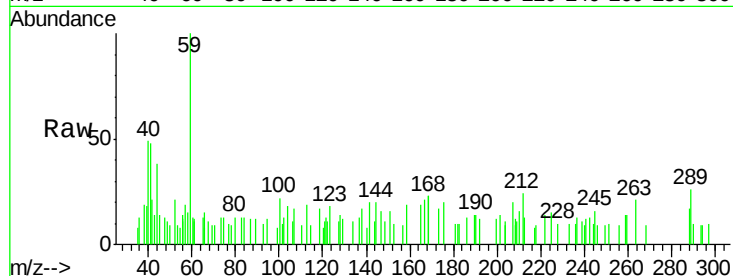




#11
Tert butyl alcohol
Concen: 13.55 ug/l
RT: 4.53 min Scan# 258
Delta R.T. -0.02 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

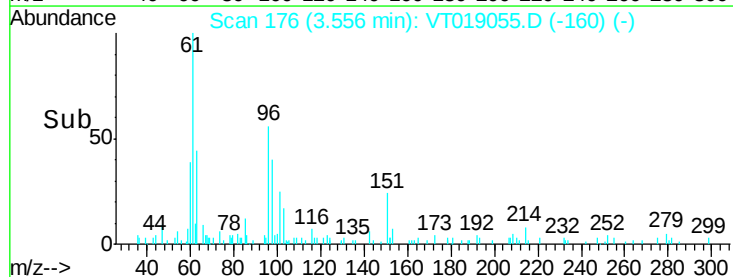
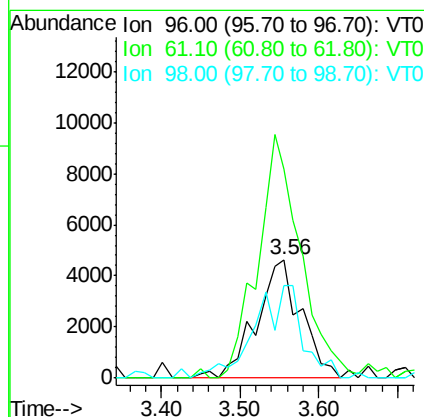
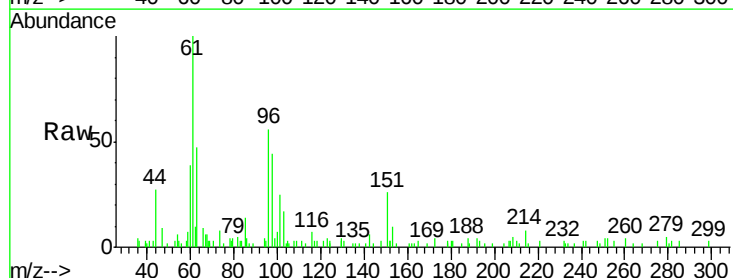
Instrument :
MSVOA_T
ClientSampleId :
MDL-SOIL-03-QT2-2018DL

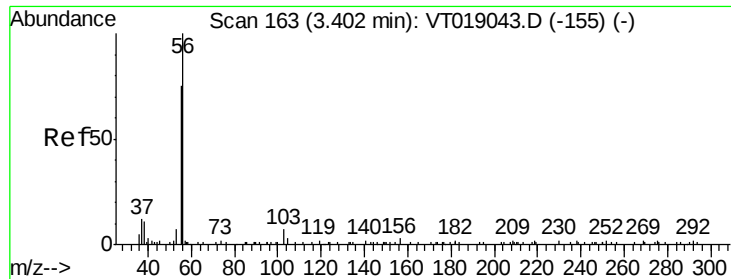
Tot Ion: 59 Resp: 6767
Ion Ratio Lower Upper
59 100
57 19.1 7.7 11.5#



#12
1,1-Dichloroethene
Concen: 2.16 ug/l
RT: 3.56 min Scan# 176
Delta R.T. -0.01 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

Tgt Ion: 96 Resp: 18287
Ion Ratio Lower Upper
96 100
61 177.0 139.4 209.2
98 77.8 49.4 74.2#





#13

Acrolein

Concen: 13.94 ug/l

RT: 3.40 min Scan# 163

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

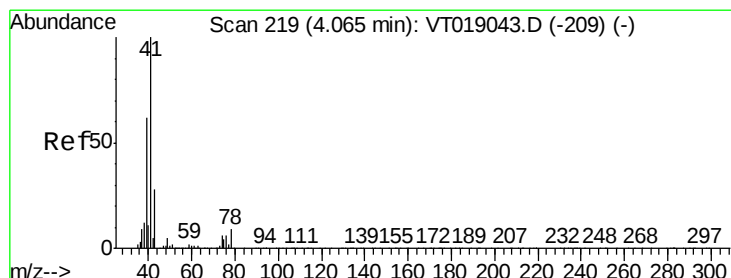
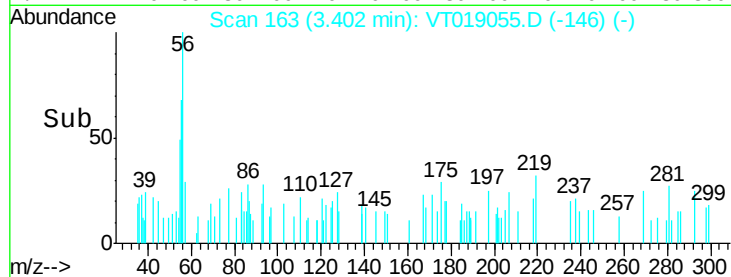
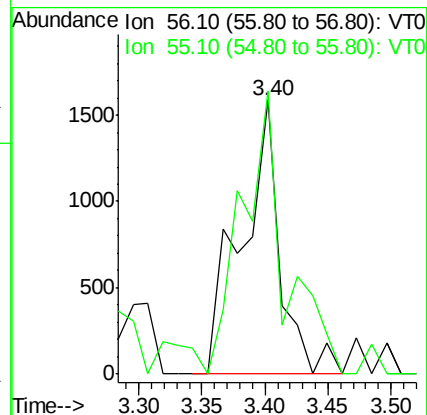
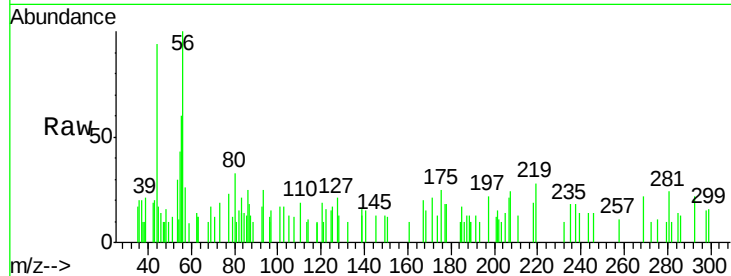
MDL-SOIL-03-QT2-2018DL

Tot Ion: 56 Resp: 3399

Ion Ratio Lower Upper

56 100

55 103.2 60.8 91.2#



#14

Allyl chloride

Concen: 2.09 ug/l

RT: 4.06 min Scan# 219

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

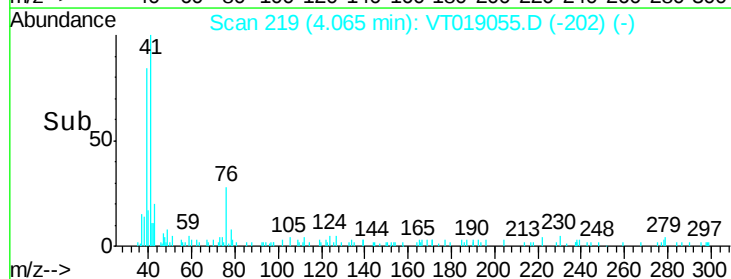
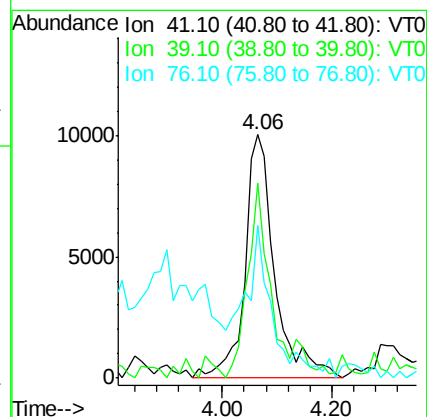
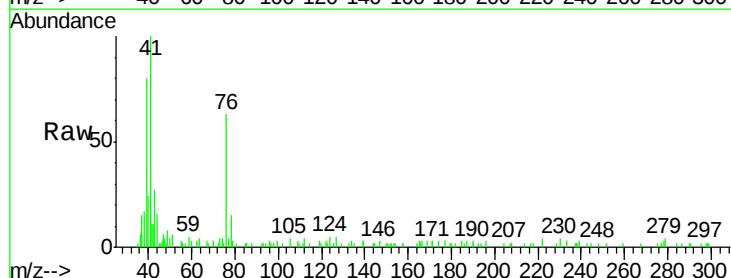
Tgt Ion: 41 Resp: 38319

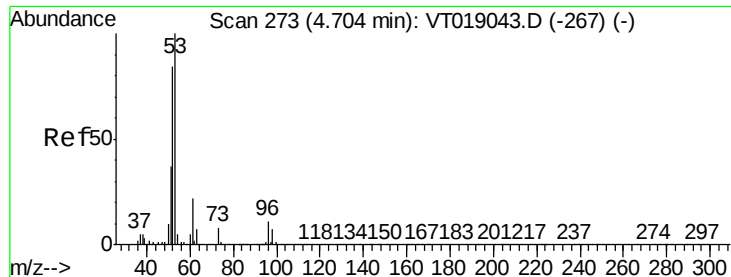
Ion Ratio Lower Upper

41 100

39 72.5 49.5 74.3

76 56.9 44.0 66.0





#15

Acrylonitrile

Concen: 10.78 ug/l

RT: 4.70 min Scan# 273

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

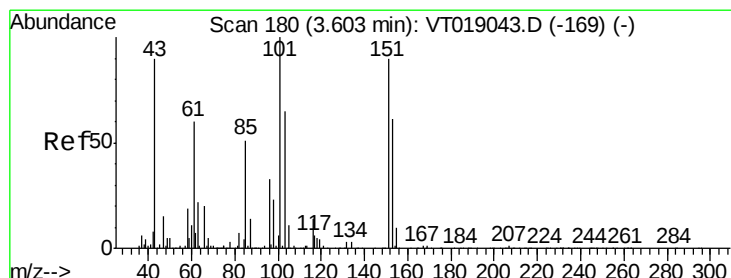
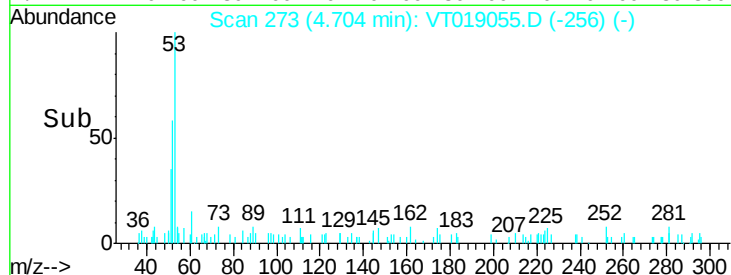
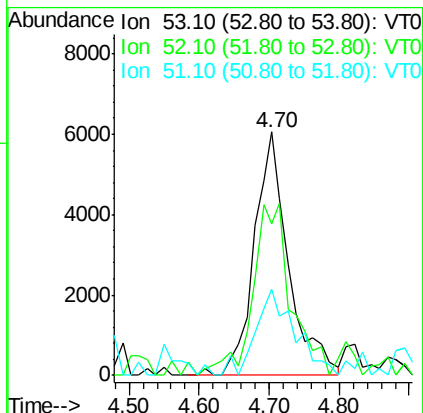
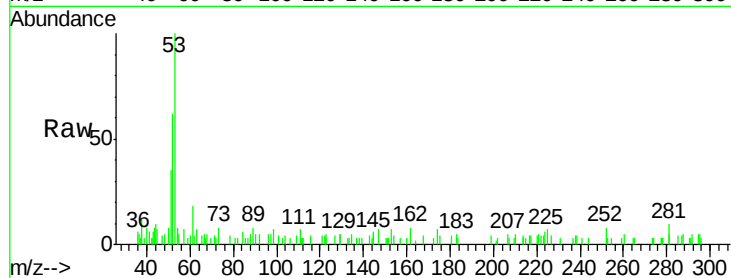
Tot Ion: 53 Resp: 20741

Ion Ratio Lower Upper

53 100

52 62.4 67.4 101.0#

51 35.3 29.6 44.4



#16

Acetone

Concen: 16.84 ug/l

RT: 3.59 min Scan# 179

Delta R.T. -0.01 min

Lab File: VT019055.D

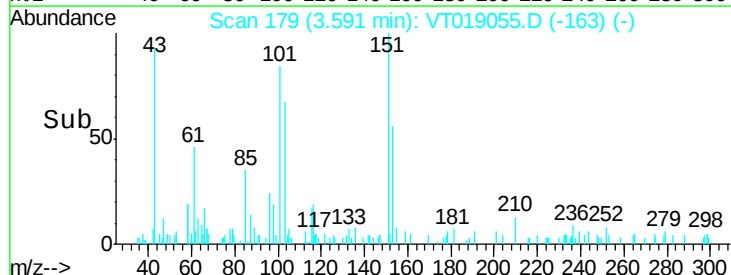
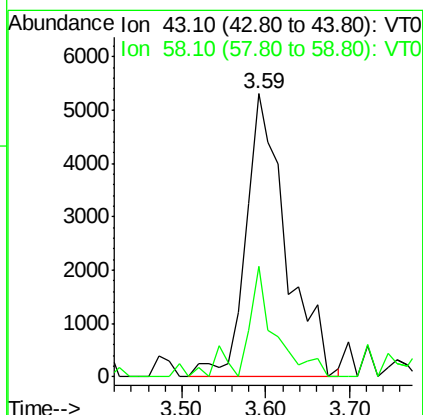
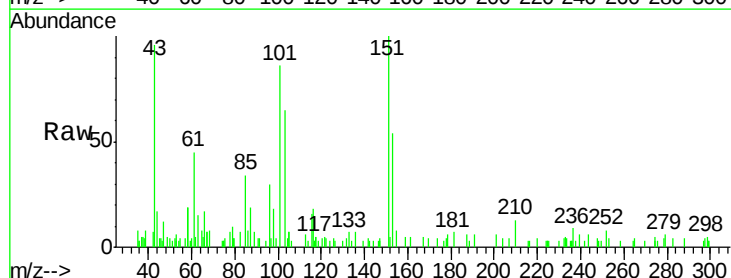
Acq: 9 May 2018 13:52

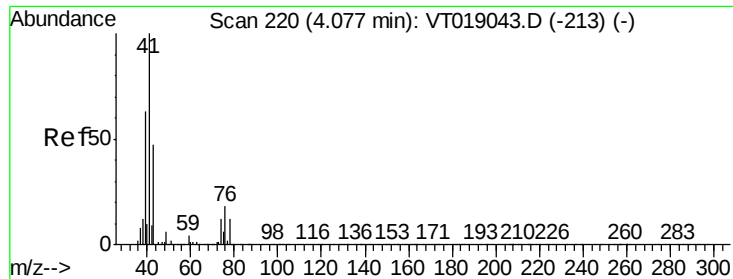
Tgt Ion: 43 Resp: 17653

Ion Ratio Lower Upper

43 100

58 38.9 16.7 25.1#

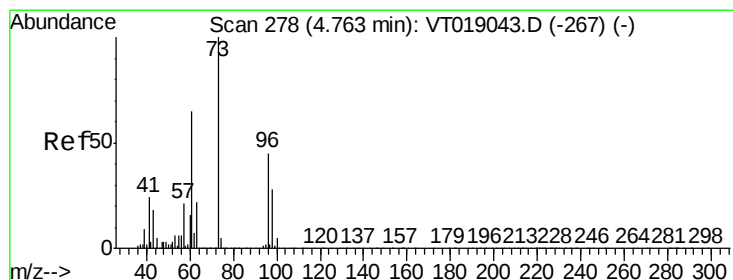
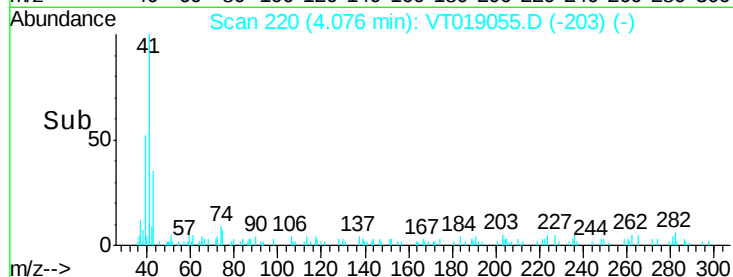
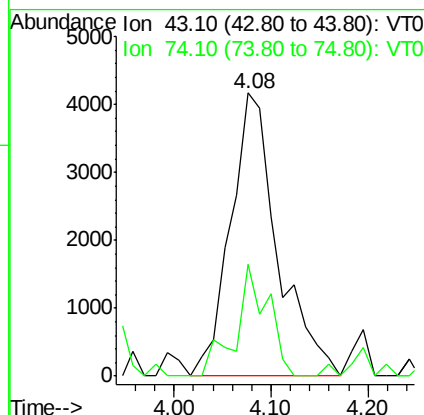
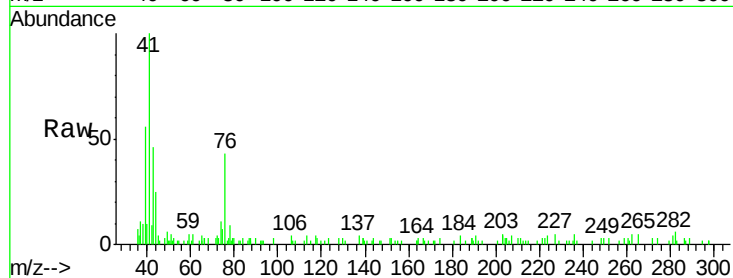




#18
Methyl Acetate
Concen: 2.61 ug/l
RT: 4.08 min Scan# 220
Delta R.T. -0.00 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

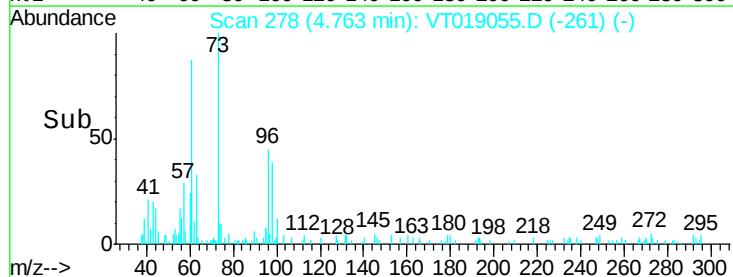
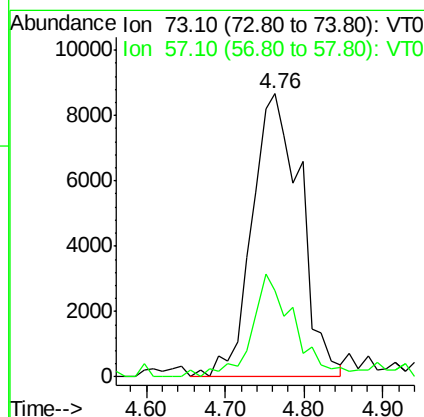
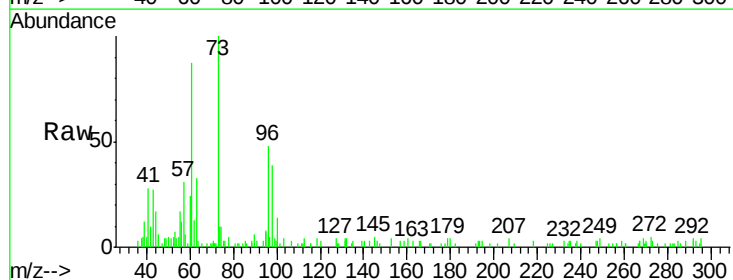
Instrument :
MSVOA_T
ClientSampleId :
MDL-SOIL-03-QT2-2018DL

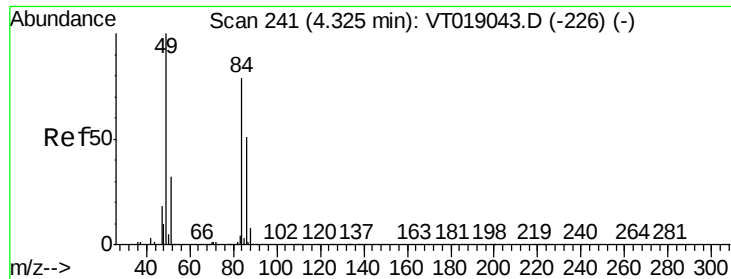
Tot Ion: 43 Resp: 14072
Ion Ratio Lower Upper
43 100
74 39.6 19.8 29.8#



#19
Methyl tert-butyl Ether
Concen: 1.74 ug/l
RT: 4.76 min Scan# 278
Delta R.T. -0.00 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

Tgt Ion: 73 Resp: 37045
Ion Ratio Lower Upper
73 100
57 30.5 16.6 25.0#

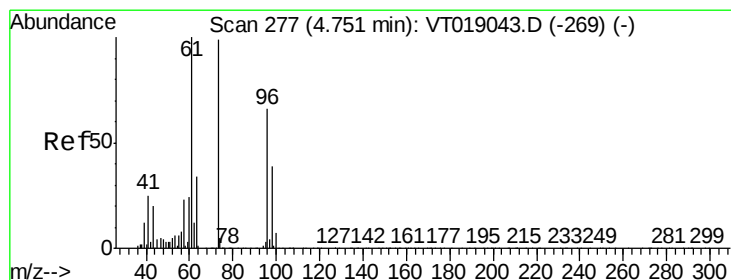
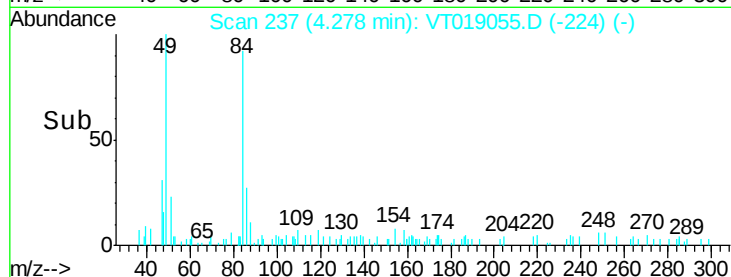
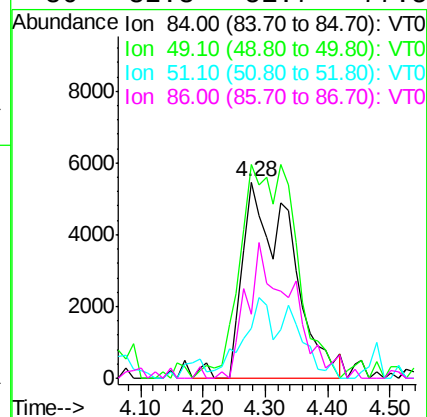
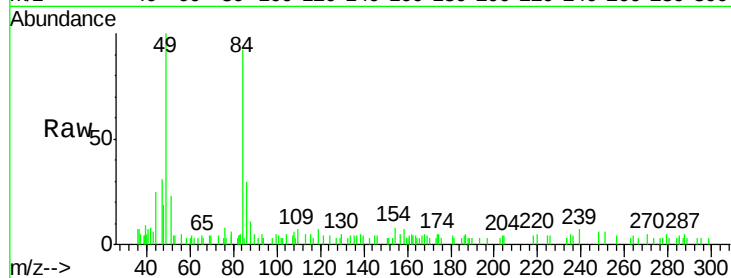




#20
Methylene Chloride
Concen: 2.62 ug/l m
RT: 4.28 min Scan# 237
Delta R.T. -0.05 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

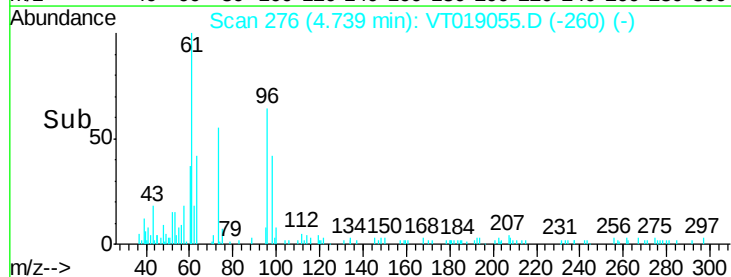
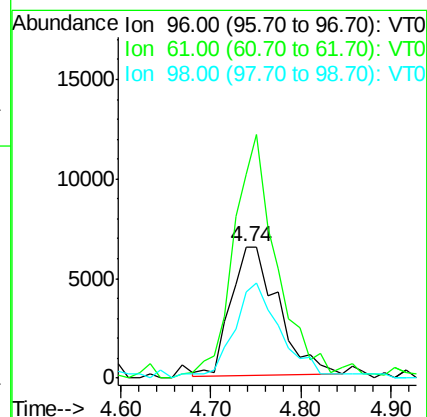
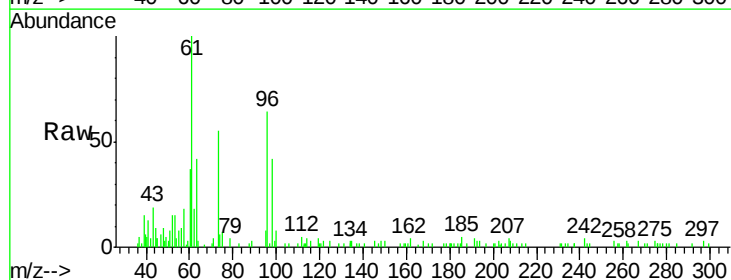
Instrument :
MSVOA_T
ClientSampleId :
MDL-SOIL-03-QT2-2018DL

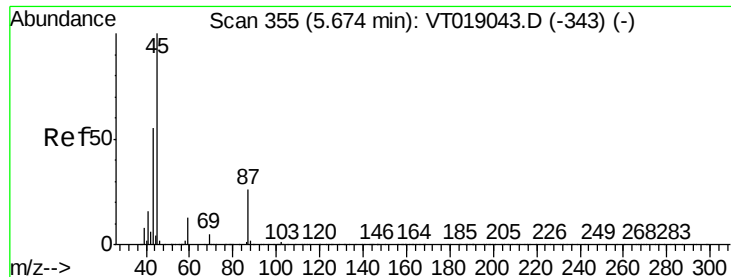
Tot Ion: 84 Resp: 29623
Ion Ratio Lower Upper
84 100
49 108.6 103.0 154.4
51 25.3 33.3 49.9#
86 32.3 51.7 77.5#



#21
trans-1,2-Dichloroethene
Concen: 1.90 ug/l
RT: 4.74 min Scan# 276
Delta R.T. -0.01 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

Tgt Ion: 96 Resp: 23795
Ion Ratio Lower Upper
96 100
61 155.9 120.8 181.2
98 65.8 47.4 71.2





#22

Diisopropyl ether

Concen: 1.85 ug/l

RT: 5.69 min Scan# 356

Delta R.T. 0.01 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

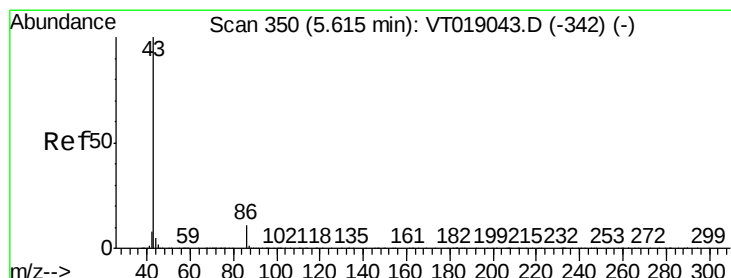
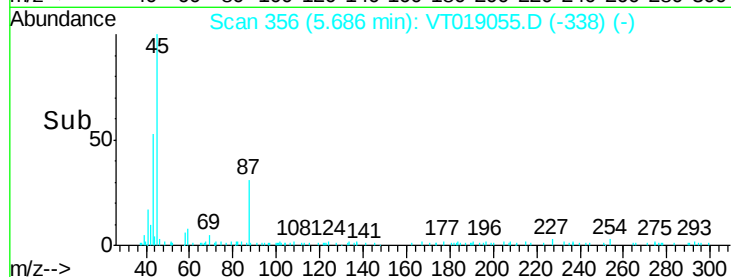
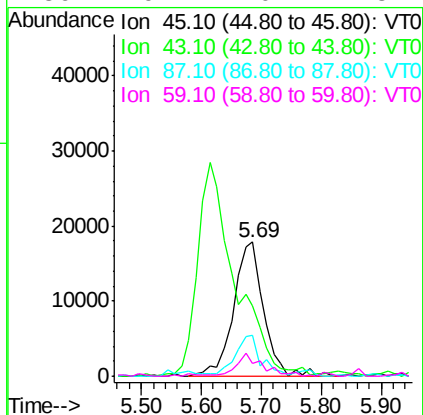
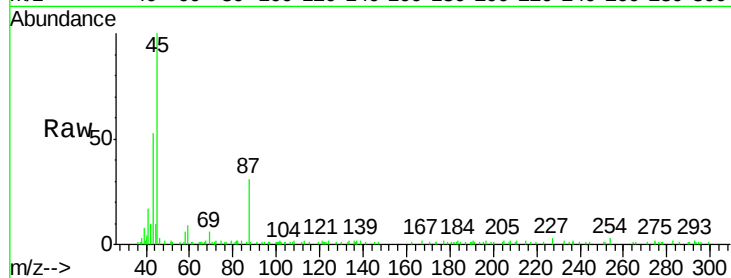
Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

Tot Ion:	45	Resp:	62803
Ion	Ratio	Lower	Upper
45	100		
43	52.7	43.8	65.6
87	30.8	20.8	31.2
59	9.4	10.2	15.4#



#23

Vinyl Acetate

Concen: 8.18 ug/l

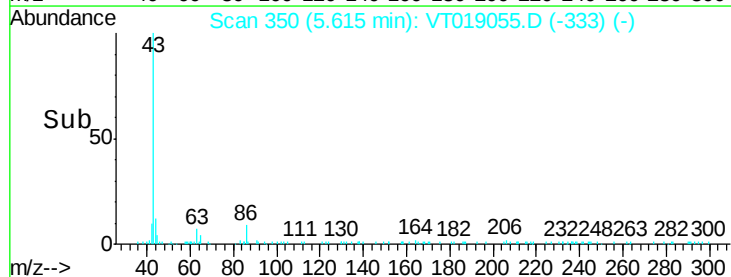
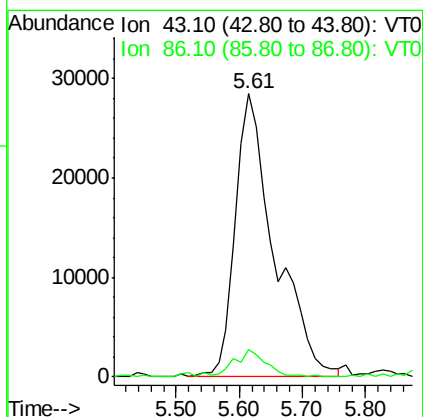
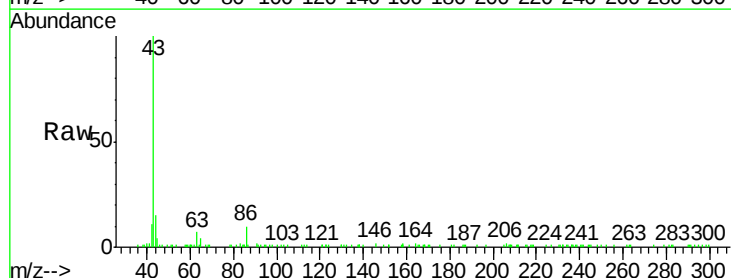
RT: 5.61 min Scan# 350

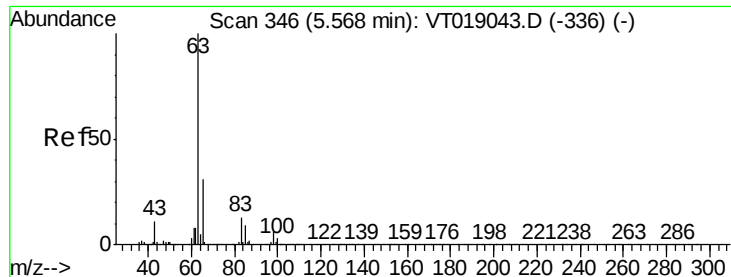
Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Tgt Ion:	43	Resp:	123214
Ion	Ratio	Lower	Upper
43	100		
86	11.0	8.6	13.0





#24

1,1-Dichloroethane

Concen: 2.10 ug/l

RT: 5.56 min Scan# 345

Delta R.T. -0.01 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

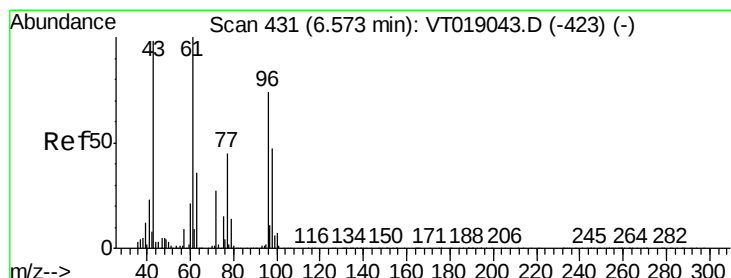
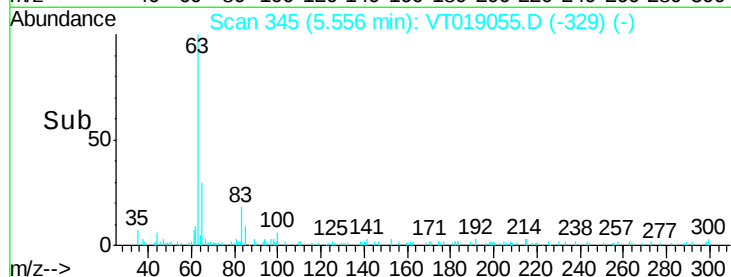
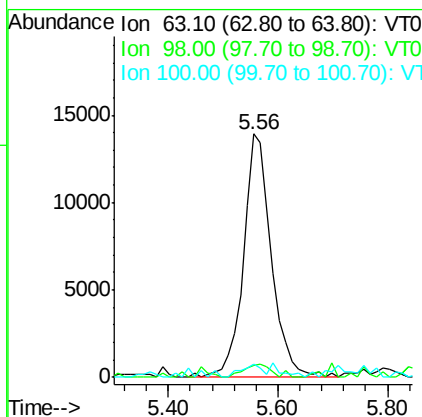
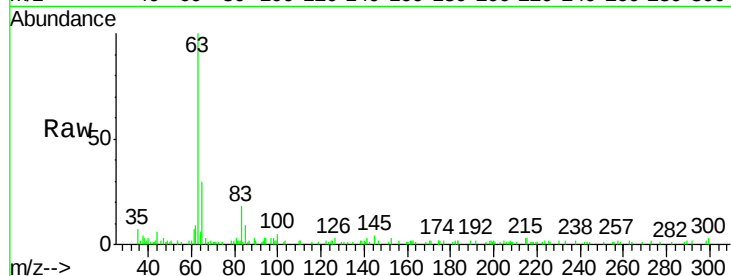
Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

Tot Ion:	63	Resp:	49860
Ion	Ratio	Lower	Upper
63	100		
98	5.1	2.8	8.4
100	5.4	1.7	5.1#



#25

2-Butanone

Concen: 10.80 ug/l

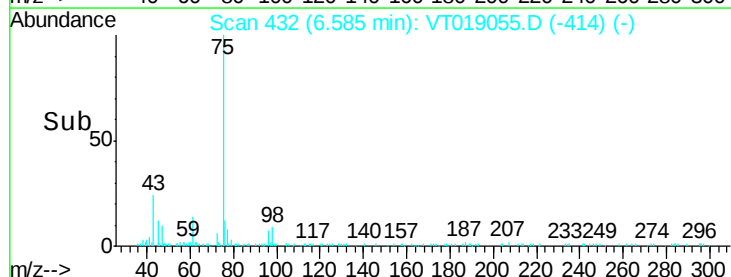
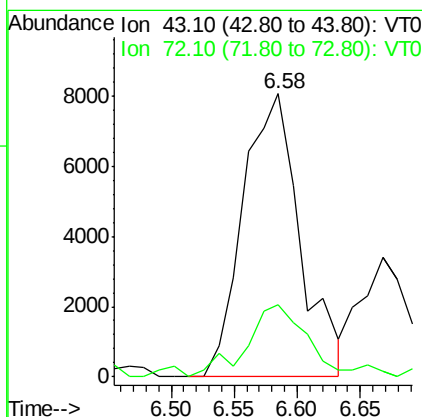
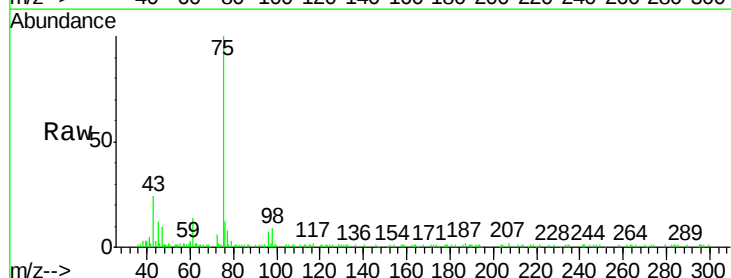
RT: 6.58 min Scan# 432

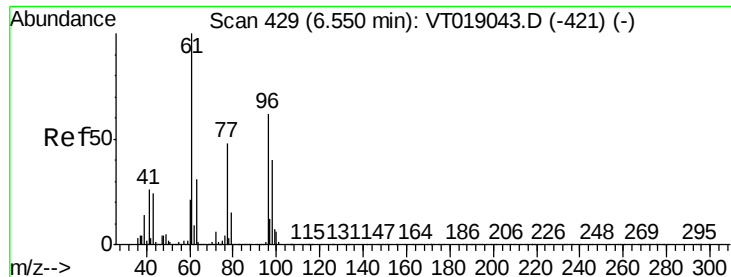
Delta R.T. 0.01 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Tgt Ion:	43	Resp:	25483
Ion	Ratio	Lower	Upper
43	100		
72	25.5	22.1	33.1

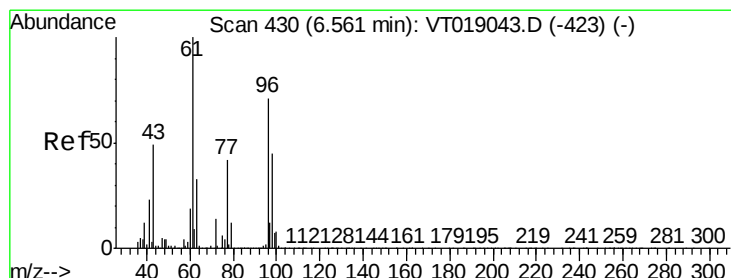
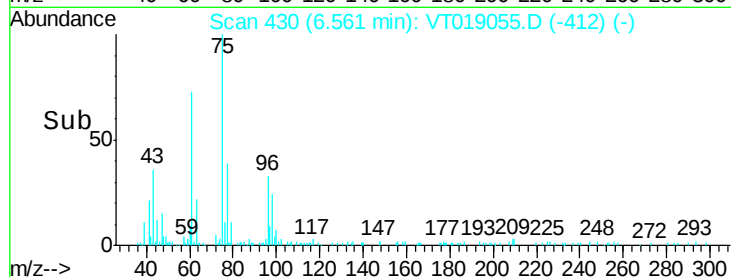
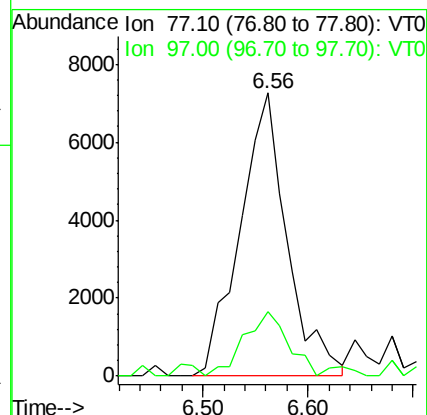
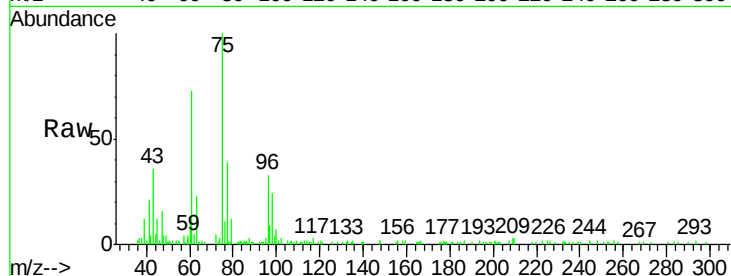




#26
 2,2-Dichloropropane
 Concen: 2.37 ug/l
 RT: 6.56 min Scan# 430
 Delta R.T. 0.01 min
 Lab File: VT019055.D
 Acq: 9 May 2018 13:52

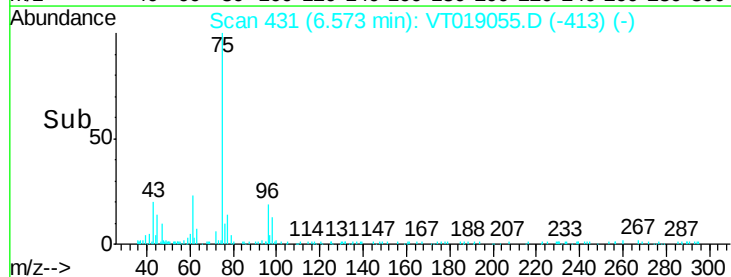
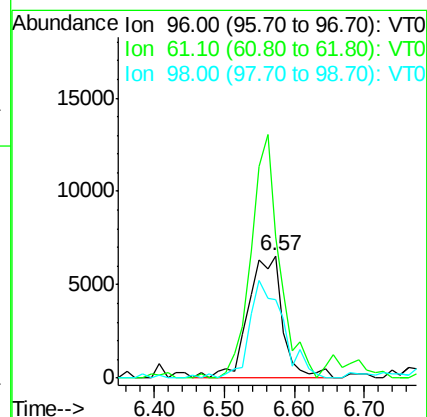
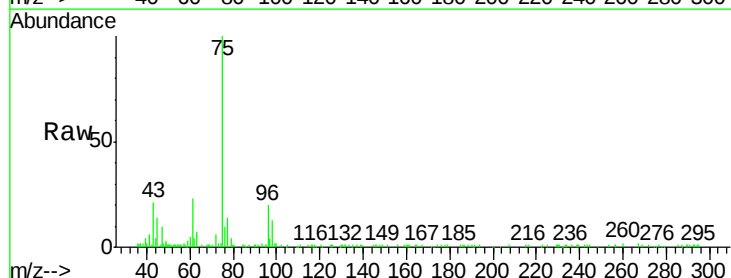
Instrument :
 MSVOA_T
 ClientSampleId :
 MDL-SOIL-03-QT2-2018DL

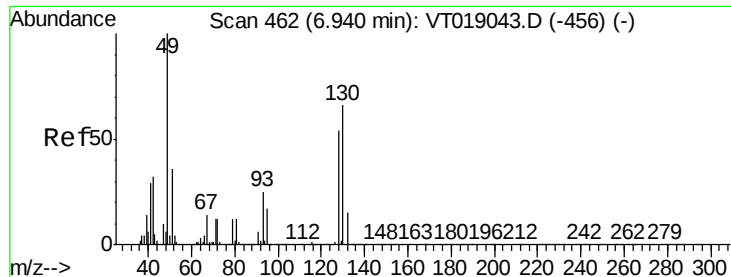
Tot Ion: 77 Resp: 22685
 Ion Ratio Lower Upper
 77 100
 97 22.9 12.2 36.4



#27
 cis-1,2-Dichloroethene
 Concen: 1.84 ug/l
 RT: 6.57 min Scan# 431
 Delta R.T. 0.01 min
 Lab File: VT019055.D
 Acq: 9 May 2018 13:52

Tgt Ion: 96 Resp: 22600
 Ion Ratio Lower Upper
 96 100
 61 115.7 0.0 282.0
 98 63.8 0.0 125.8





#28

Bromochloromethane

Concen: 2.26 ug/l

RT: 6.94 min Scan# 462

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

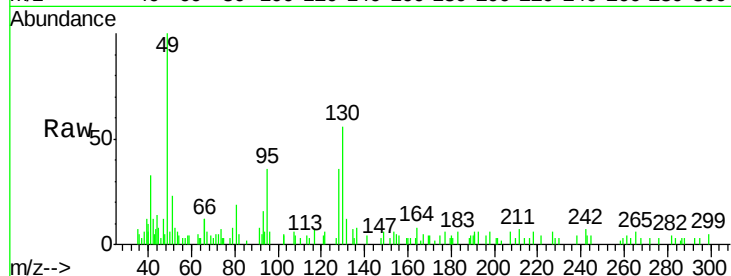
Tot Ion: 49 Resp: 17812

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 56.3 52.4 78.6



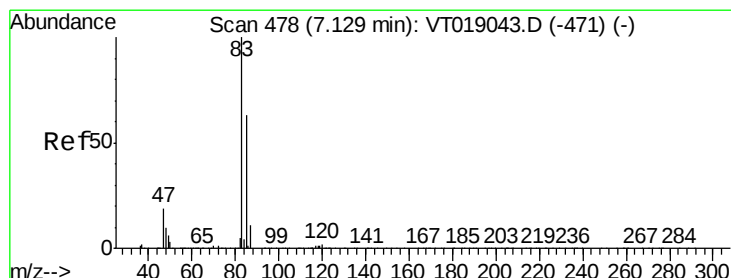
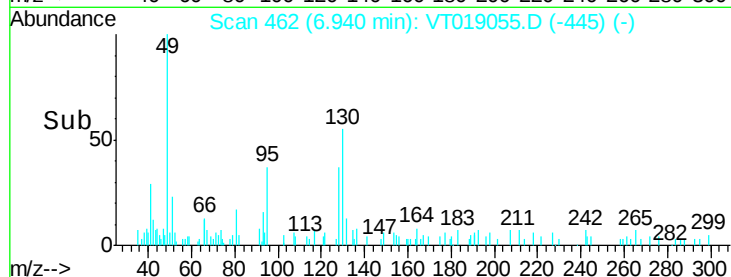
Abundance Ion 49.10 (48.80 to 49.80): VT0

Ion 129.00 (128.70 to 129.70): VT0

Ion 129.90 (129.60 to 130.60): VT0

Time-->

6.85 6.90 6.95 7.00



#29

Chloroform

Concen: 1.93 ug/l

RT: 7.13 min Scan# 478

Delta R.T. -0.00 min

Lab File: VT019055.D

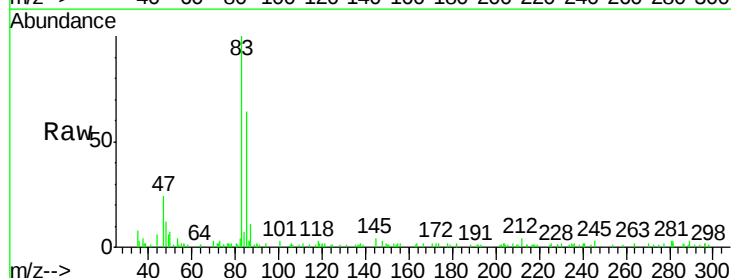
Acq: 9 May 2018 13:52

Tgt Ion: 83 Resp: 42905

Ion Ratio Lower Upper

83 100

85 63.7 50.6 76.0

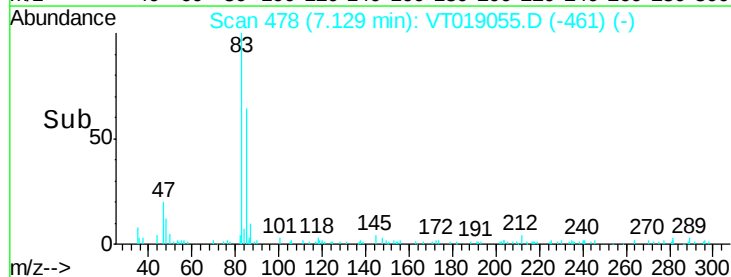


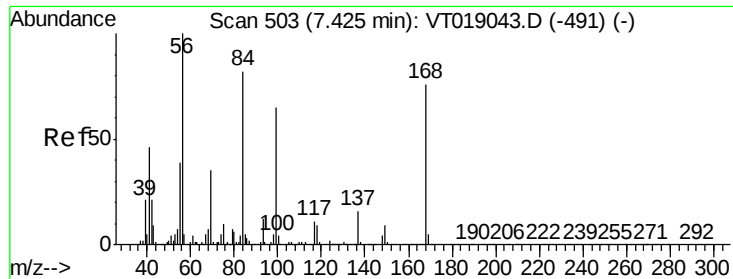
Abundance Ion 83.00 (82.70 to 83.70): VT0

Ion 85.00 (84.70 to 85.70): VT0

Time-->

7.00 7.10 7.20

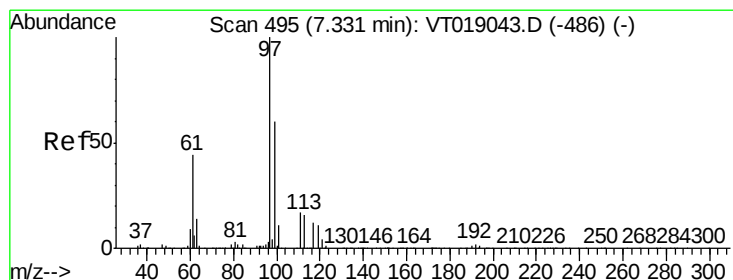
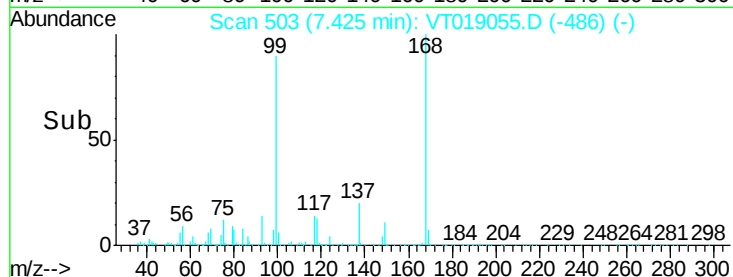
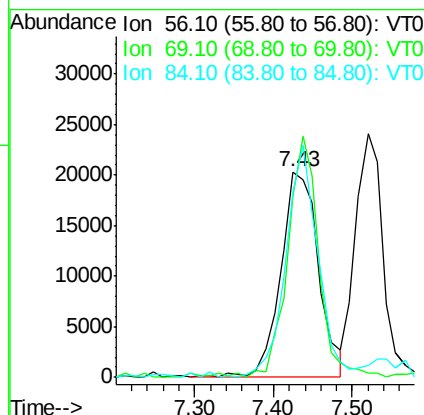
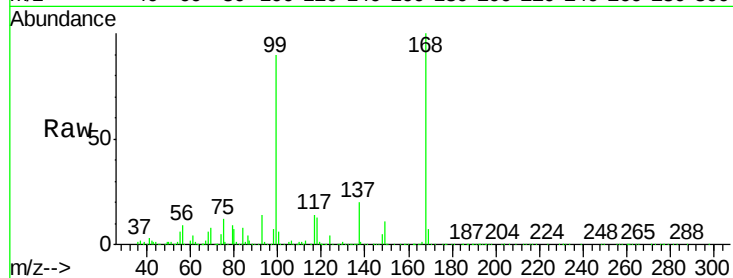




#30
Cyclohexane
Concen: 2.63 ug/l
RT: 7.43 min Scan# 503
Delta R.T. -0.00 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

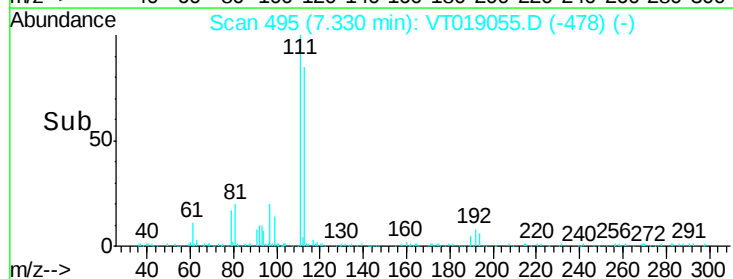
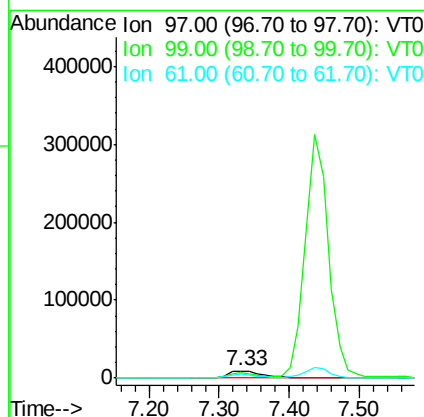
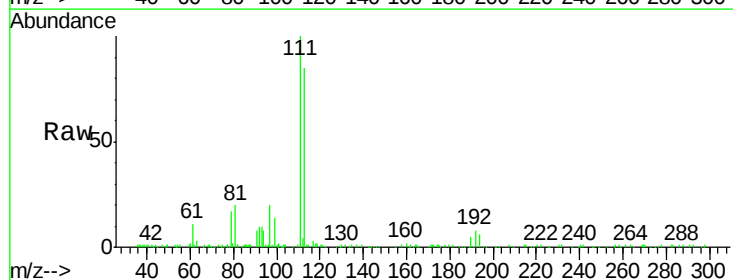
Instrument :
MSVOA_T
ClientSampleId :
MDL-SOIL-03-QT2-2018DL

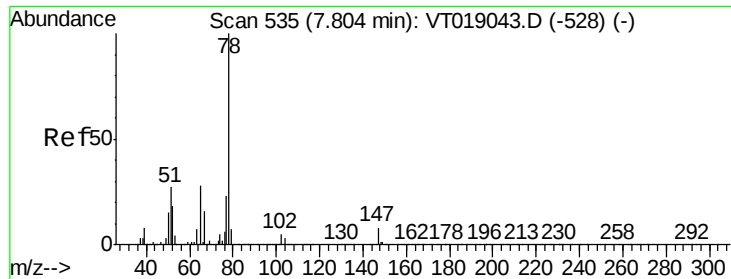
Tot Ion: 56 Resp: 67735
Ion Ratio Lower Upper
56 100
69 88.2 28.2 42.2#
84 90.0 65.6 98.4



#31
1,1,1-Trichloroethane
Concen: 1.93 ug/l
RT: 7.33 min Scan# 495
Delta R.T. -0.00 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

Tgt Ion: 97 Resp: 33160
Ion Ratio Lower Upper
97 100
99 70.8 47.6 71.4
61 55.9 35.3 52.9#





#32

1,2-Dichloroethane-d4

Concen: 53.64 ug/l

RT: 7.80 min Scan# 535

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

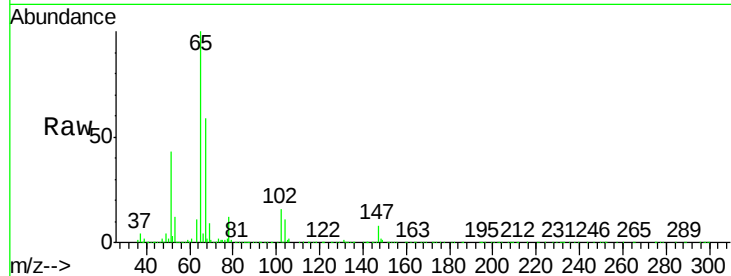
MDL-SOIL-03-QT2-2018DL

Tot Ion: 65 Resp: 529698

Ion Ratio Lower Upper

65 100

67 58.7 0.0 114.2



Abundance Ion 65.10 (64.80 to 65.80): VT0

Ion 67.10 (66.80 to 67.80): VT0

7.80

200000

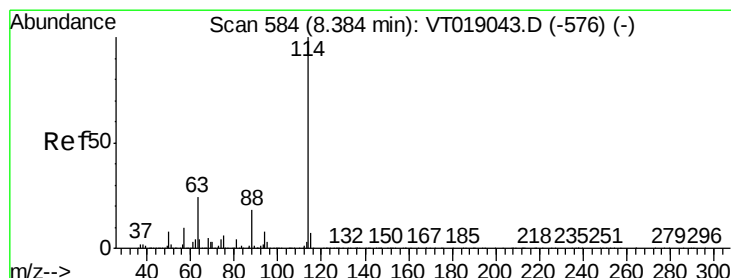
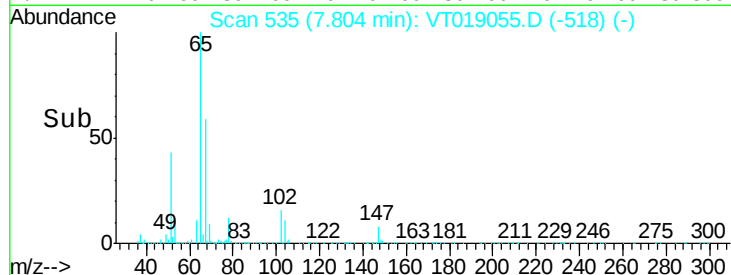
150000

100000

50000

0

Time-->



#33

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.38 min Scan# 584

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

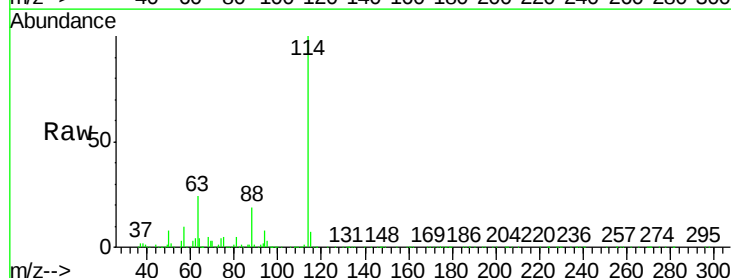
Tgt Ion: 114 Resp: 1823526

Ion Ratio Lower Upper

114 100

63 24.3 0.0 48.8

88 18.7 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

1200000

1000000

800000

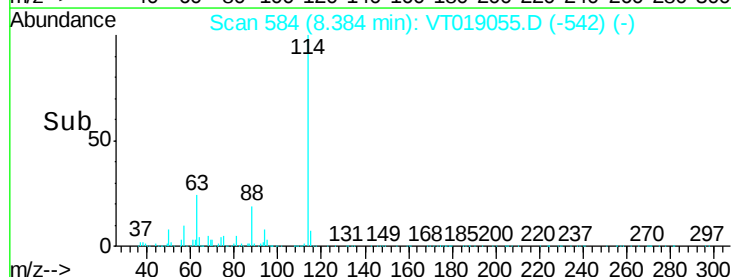
600000

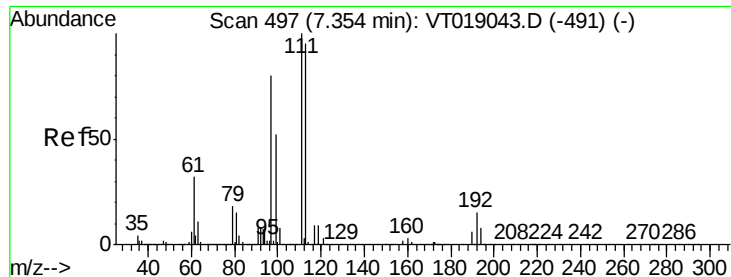
400000

200000

0

Time-->





#34

Dibromofluoromethane

Concen: 52.99 ug/l

RT: 7.35 min Scan# 497

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

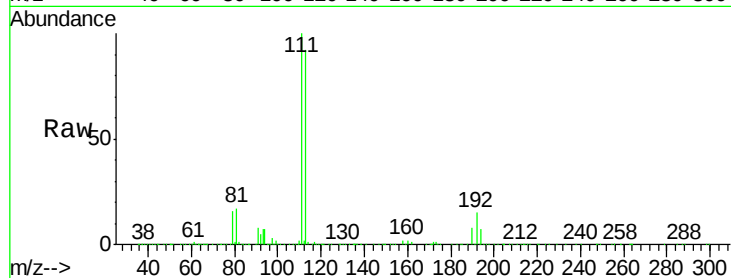
Tot Ion:113 Resp: 541122

Ion Ratio Lower Upper

113 100

111 108.2 84.0 126.0

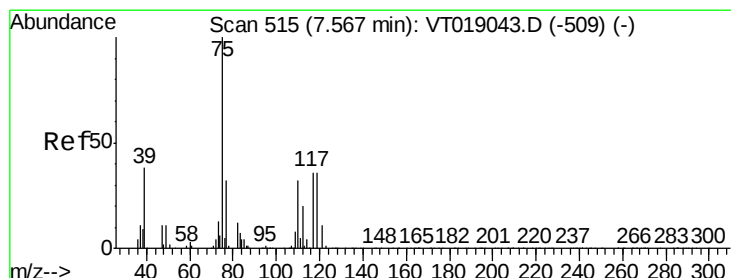
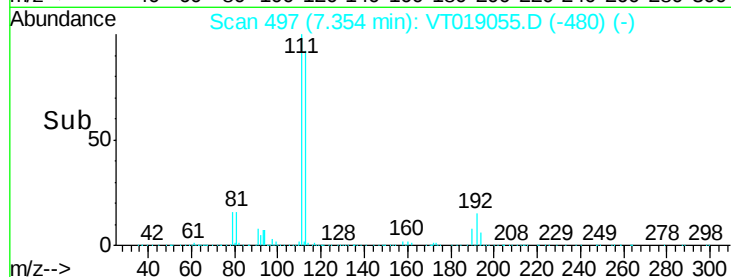
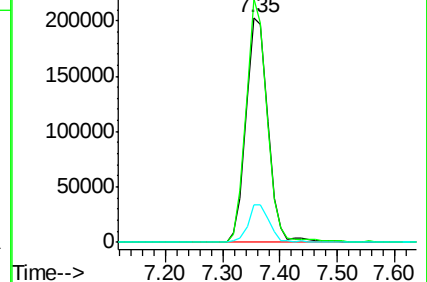
192 16.5 12.9 19.3



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: 1.76 ug/l

RT: 7.57 min Scan# 515

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

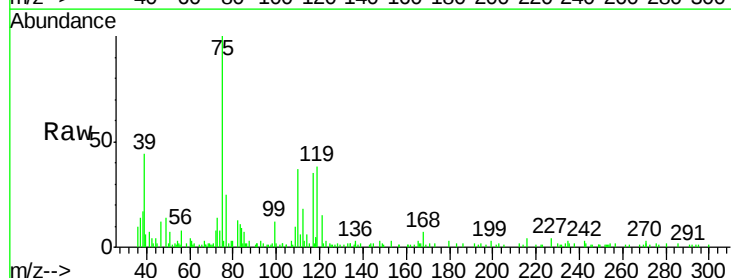
Tgt Ion: 75 Resp: 36933

Ion Ratio Lower Upper

75 100

110 36.0 15.9 47.6

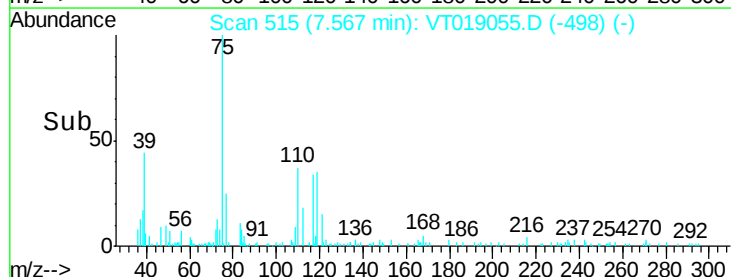
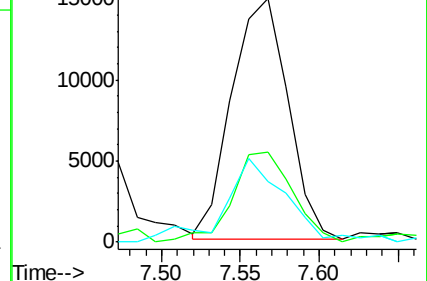
77 24.1 25.9 38.9#

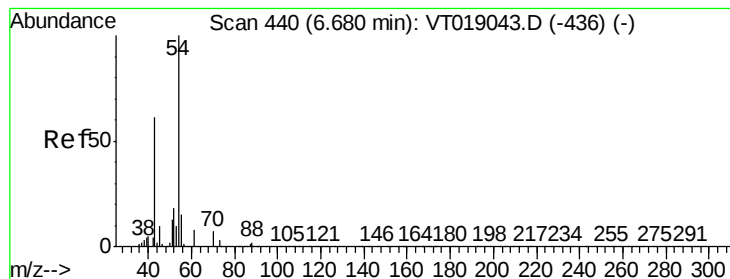


Abundance Ion 75.10 (74.80 to 75.80): VT0

Ion 110.00 (109.70 to 110.70): V

Ion 77.00 (76.70 to 77.70): VT0





#36

Ethyl Acetate

Concen: 1.92 ug/l

RT: 6.67 min Scan# 439

Delta R.T. -0.01 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleID :

MDL-SOIL-03-QT2-2018DL

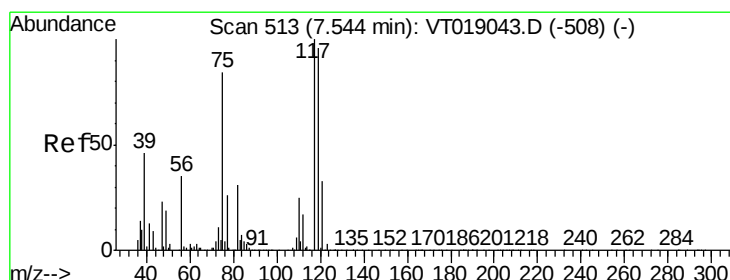
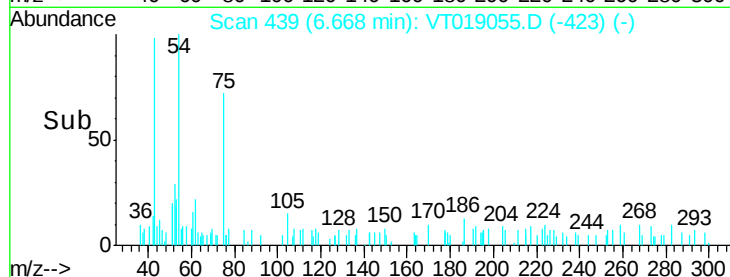
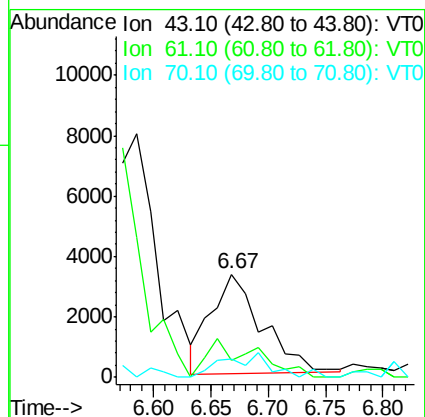
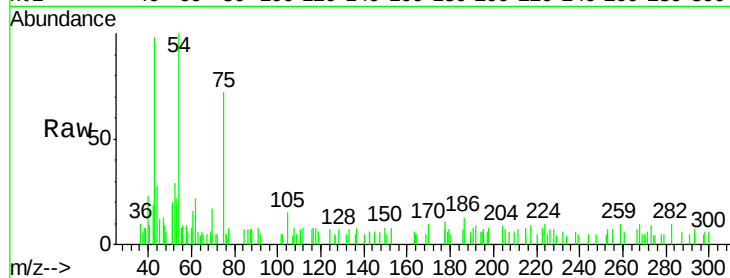
Tot Ion: 43 Resp: 10390

Ion Ratio Lower Upper

43 100

61 16.3 14.2 21.2

70 17.2 8.4 12.6#



#37

Carbon Tetrachloride

Concen: 1.56 ug/l

RT: 7.54 min Scan# 513

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

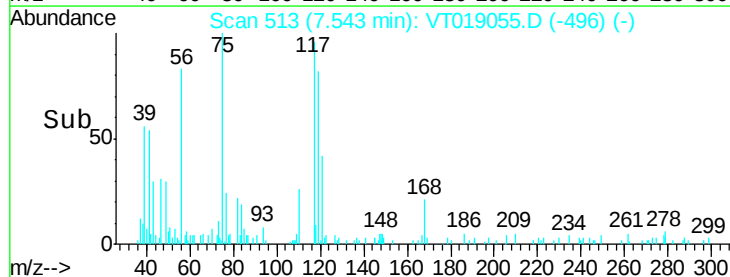
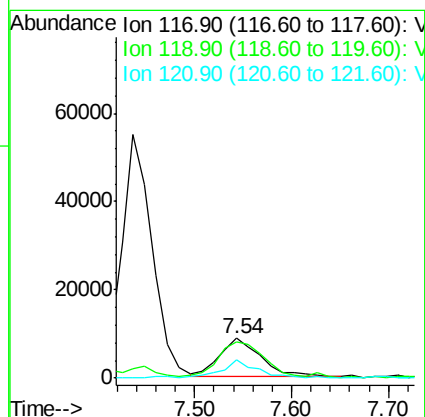
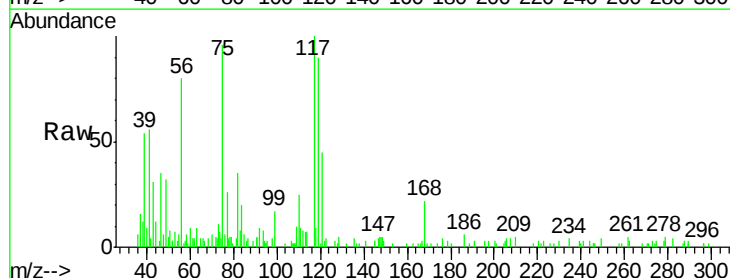
Tgt Ion: 117 Resp: 26837

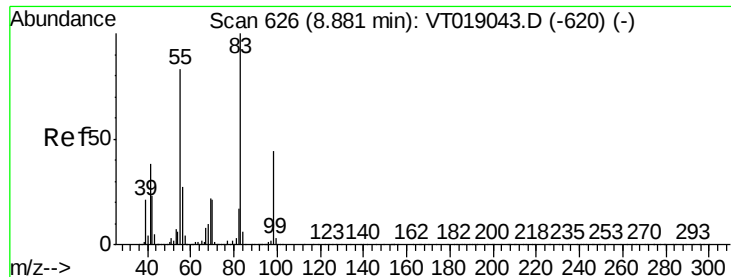
Ion Ratio Lower Upper

117 100

119 90.4 76.5 114.7

121 45.4 26.0 39.0#

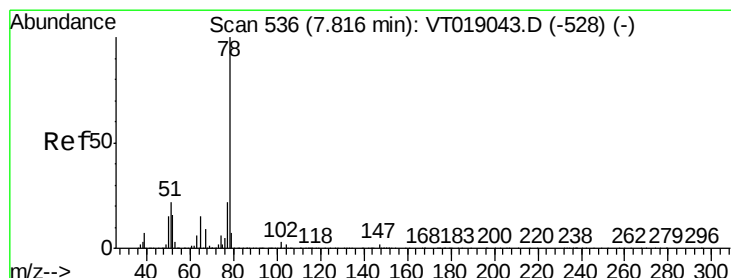
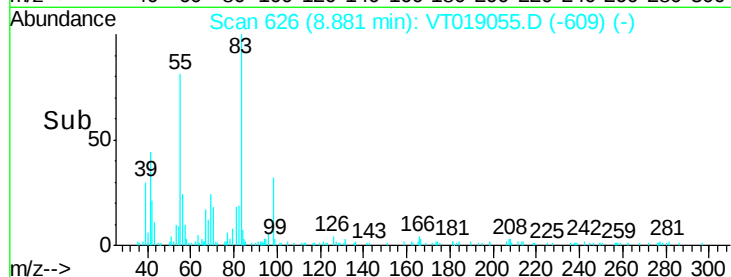
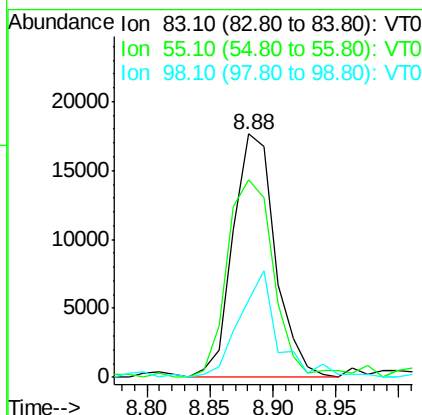
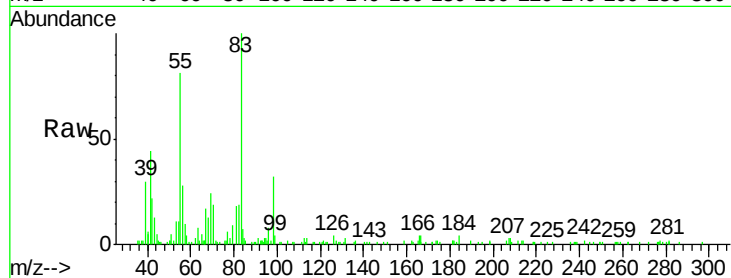




#38
Methvlcvclohexane
Concen: 1.65 ug/l
RT: 8.88 min Scan# 626
Delta R.T. -0.00 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

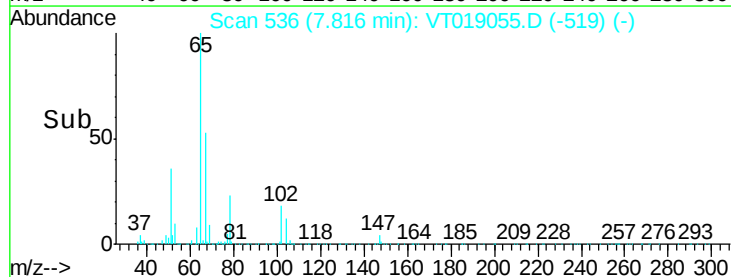
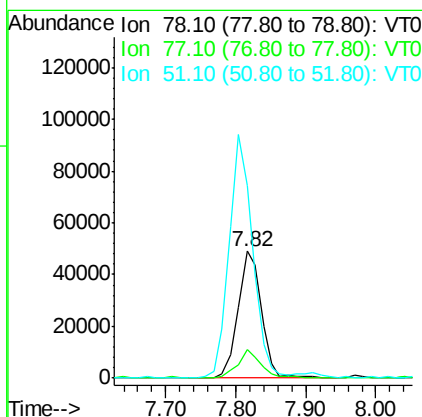
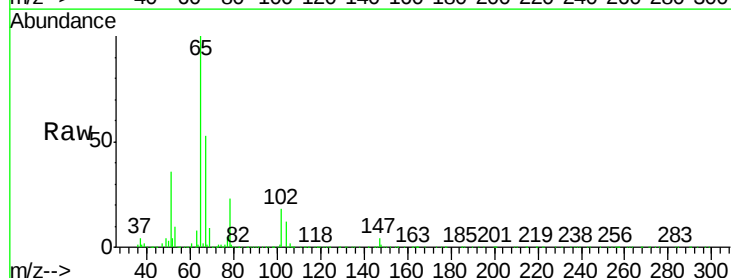
Instrument :
MSVOA_T
ClientSampleId :
MDL-SOIL-03-QT2-2018DL

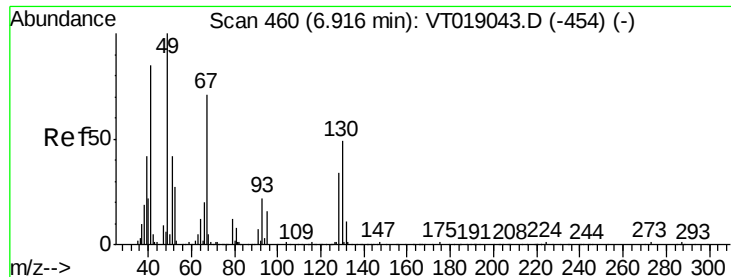
Tot Ion: 83 Resp: 41308
Ion Ratio Lower Upper
83 100
55 81.2 66.7 100.1
98 31.8 35.5 53.3#



#39
Benzene
Concen: 2.09 ug/l
RT: 7.82 min Scan# 536
Delta R.T. -0.00 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

Tgt Ion: 78 Resp: 114921
Ion Ratio Lower Upper
78 100
77 22.4 18.0 27.0
51 151.4 17.3 25.9#

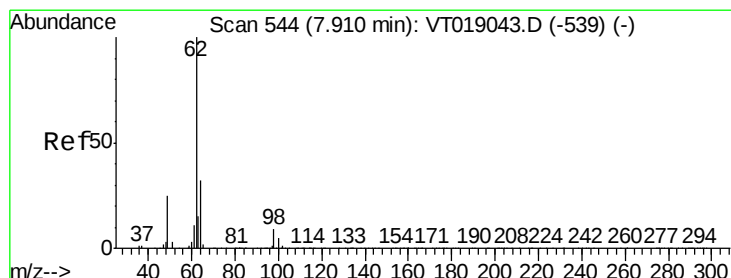
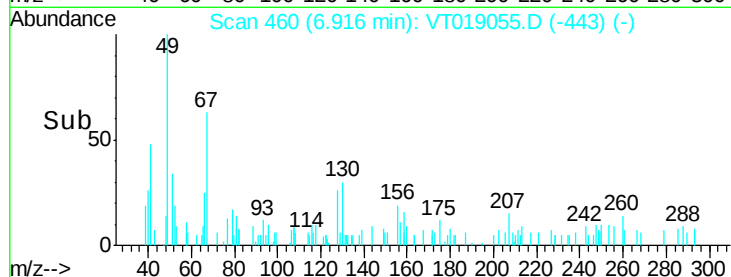
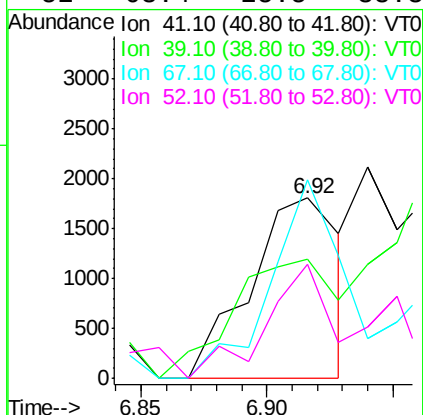
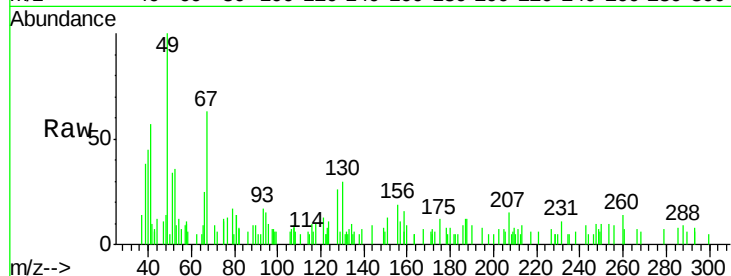




#40
Methacrylonitrile
Concen: 1.88 ug/l
RT: 6.92 min Scan# 460
Delta R.T. 0.00 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

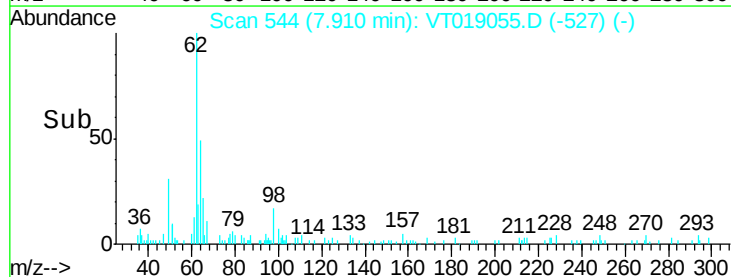
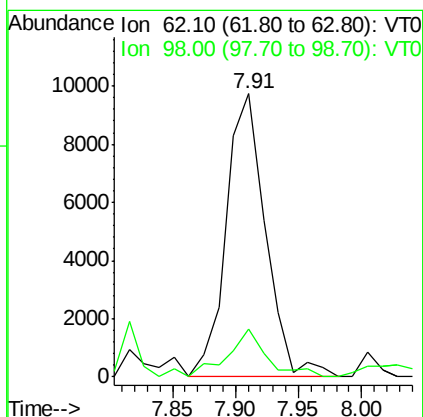
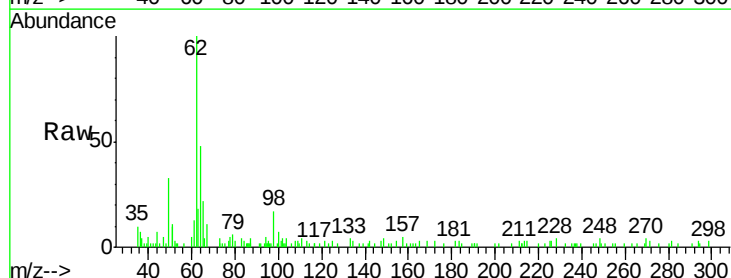
Instrument :
MSVOA_T
ClientSampleId :
MDL-SOIL-03-QT2-2018DL

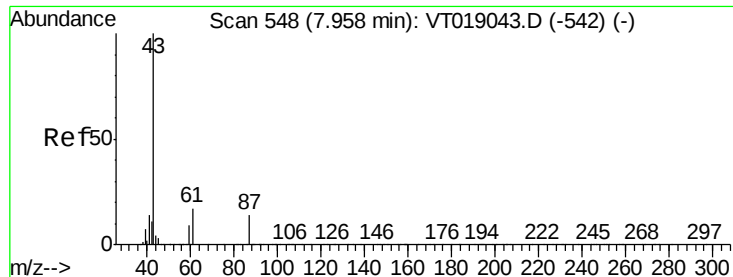
Tot Ion: 41 Resp: 4506
Ion Ratio Lower Upper
41 100
39 66.1 39.4 59.0#
67 110.0 66.8 100.2#
52 63.4 25.5 38.3#



#41
1,2-Dichloroethane
Concen: 1.77 ug/l
RT: 7.91 min Scan# 544
Delta R.T. -0.00 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

Tgt Ion: 62 Resp: 21123
Ion Ratio Lower Upper
62 100
98 16.7 0.0 17.4





#42

Isopropyl Acetate

Concen: 1.71 ug/l

RT: 7.96 min Scan# 548

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

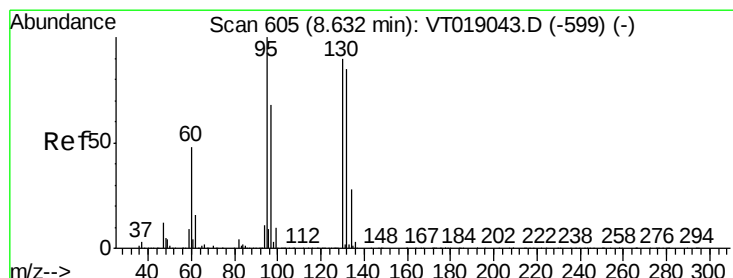
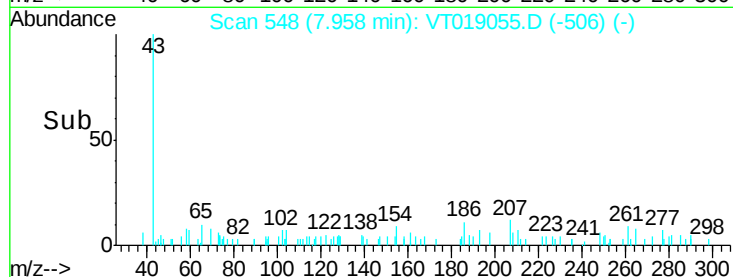
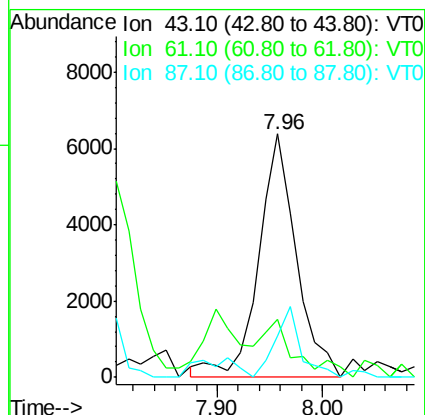
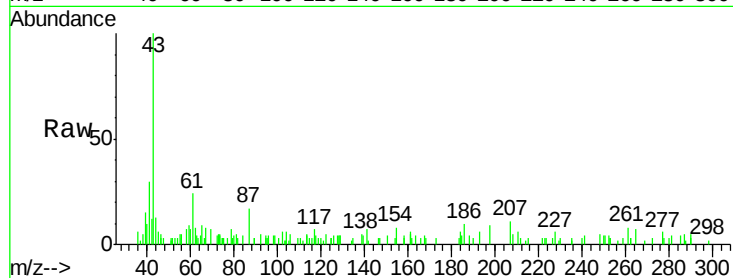
Tot Ion: 43 Resp: 15905

Ion Ratio Lower Upper

43 100

61 23.8 17.9 26.9

87 17.1 11.0 16.6#



#43

Trichloroethene

Concen: 1.73 ug/l

RT: 8.63 min Scan# 605

Delta R.T. -0.00 min

Lab File: VT019055.D

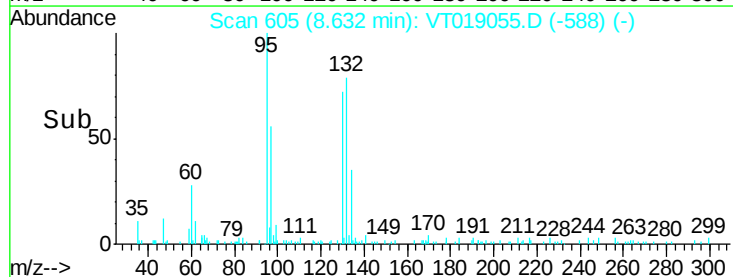
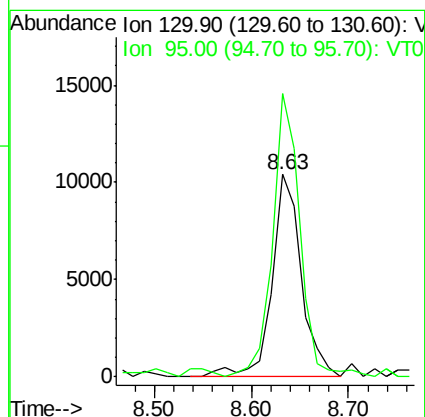
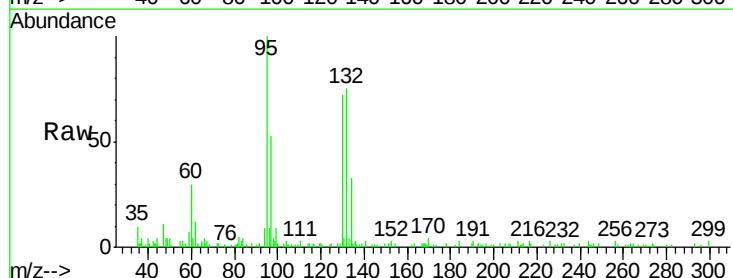
Acq: 9 May 2018 13:52

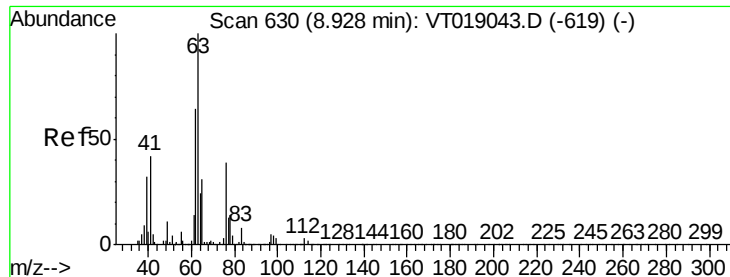
Tgt Ion:130 Resp: 21791

Ion Ratio Lower Upper

130 100

95 139.8 0.0 222.6





#44

1,2-Dichloropropane

Concen: 2.02 ug/l

RT: 8.92 min Scan# 629

Delta R.T. -0.01 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

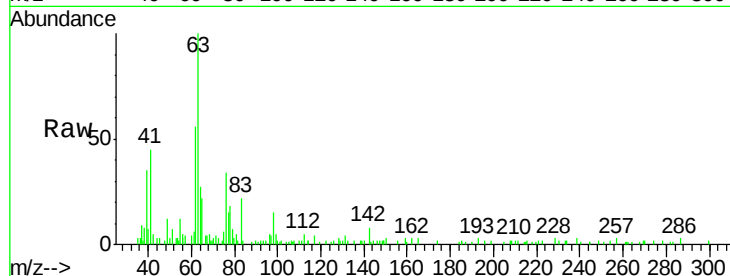
MDL-SOIL-03-QT2-2018DL

Tot Ion: 63 Resp: 26036

Ion Ratio Lower Upper

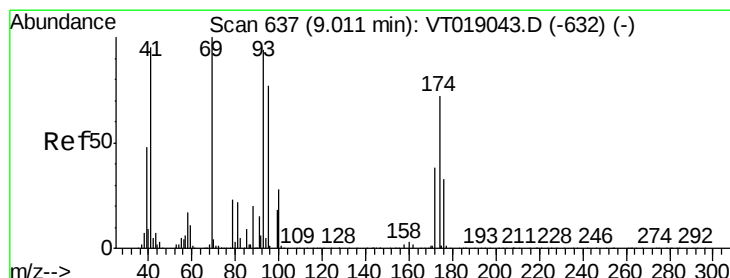
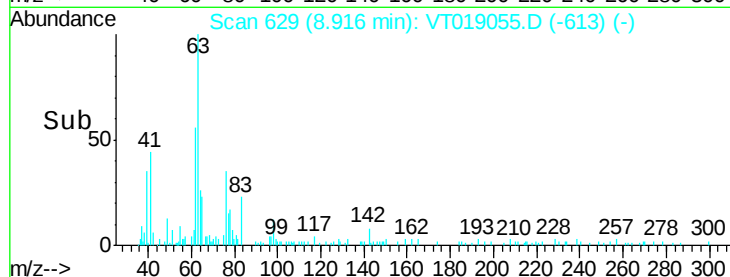
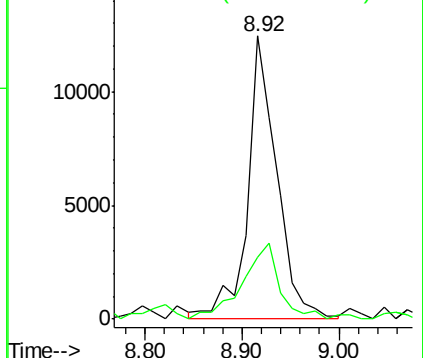
63 100

65 22.1 25.0 37.4#



Abundance Ion 63.10 (62.80 to 63.80): VT0

Ion 65.10 (64.80 to 65.80): VT0



#45

Dibromomethane

Concen: 1.81 ug/l m

RT: 9.01 min Scan# 637

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

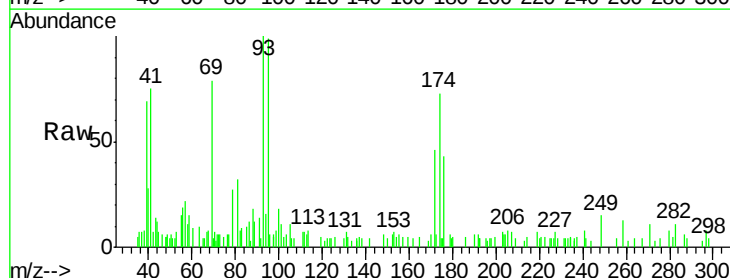
Tgt Ion: 93 Resp: 9172

Ion Ratio Lower Upper

93 100

95 99.0 65.5 98.3#

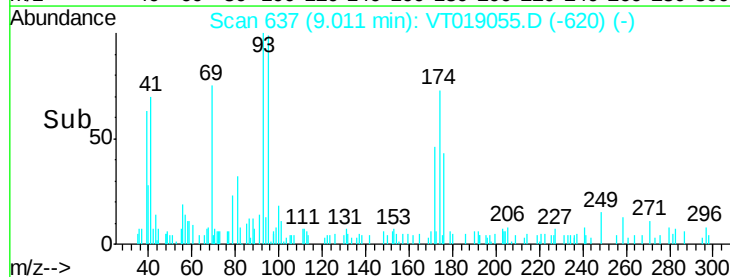
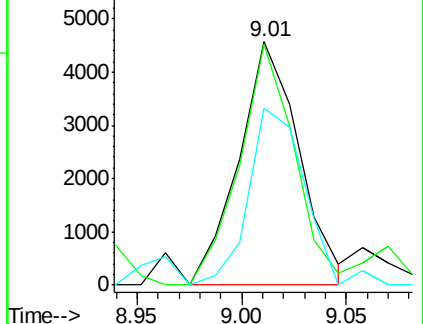
174 72.6 60.9 91.3

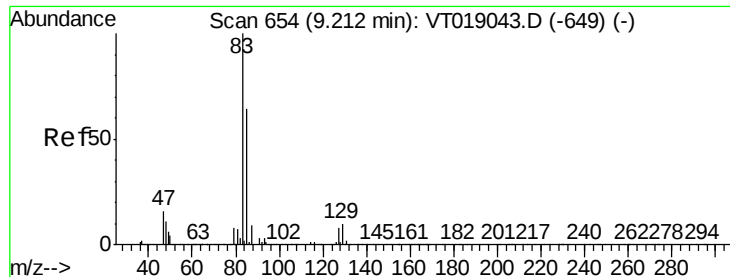


Abundance Ion 93.00 (92.70 to 93.70): VT0

Ion 95.00 (94.70 to 95.70): VT0

Ion 173.90 (173.60 to 174.60): VT0





#46

Bromodichloromethane

Concen: 1.75 ug/l

RT: 9.21 min Scan# 654

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

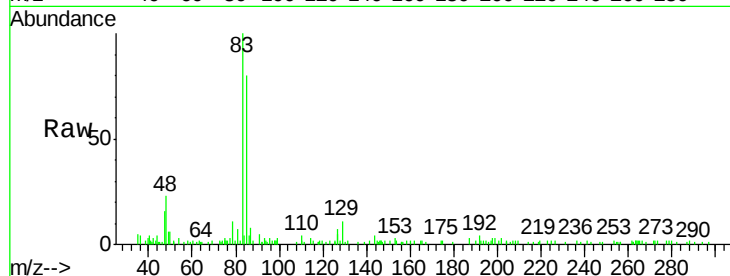
Tot Ion: 83 Resp: 25676

Ion Ratio Lower Upper

83 100

85 79.8 51.3 76.9#

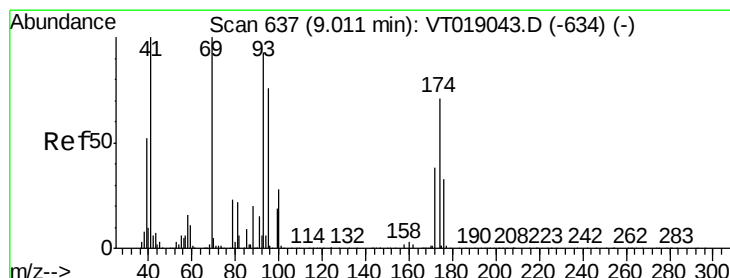
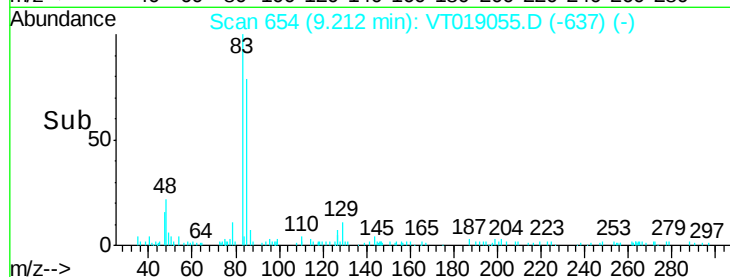
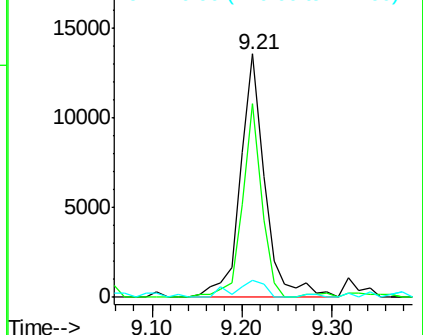
127 7.2 6.1 9.1



Abundance Ion 83.00 (82.70 to 83.70): VT0

Ion 85.00 (84.70 to 85.70): VT0

Ion 126.90 (126.60 to 127.60): VT0



#47

Methyl methacrylate

Concen: 1.63 ug/l

RT: 9.01 min Scan# 637

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

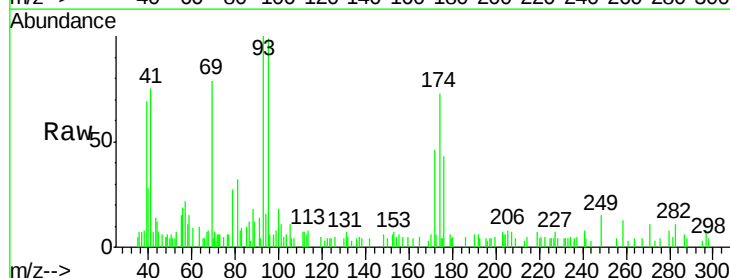
Tgt Ion: 41 Resp: 7863

Ion Ratio Lower Upper

41 100

69 111.3 78.4 117.6

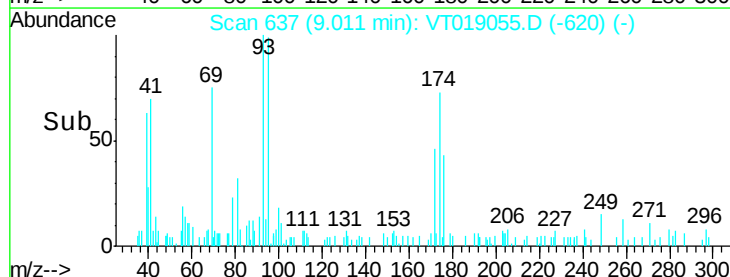
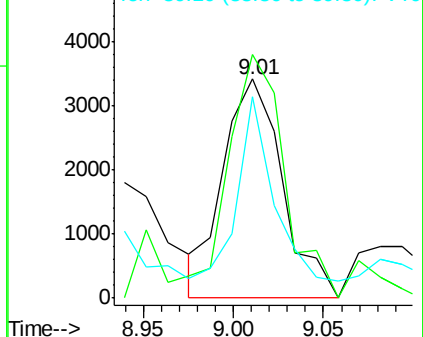
39 92.0 41.4 62.2#

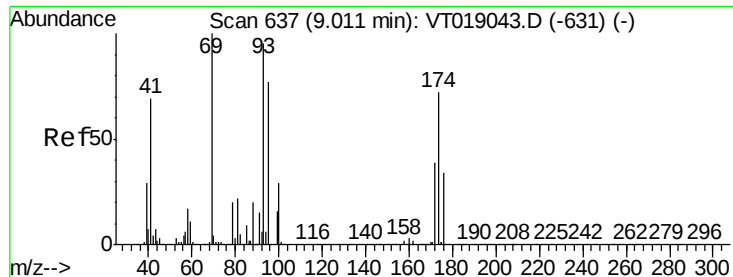


Abundance Ion 41.10 (40.80 to 41.80): VT0

Ion 69.10 (68.80 to 69.80): VT0

Ion 39.10 (38.80 to 39.80): VT0

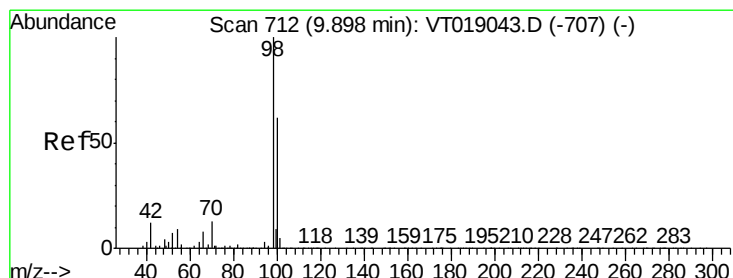
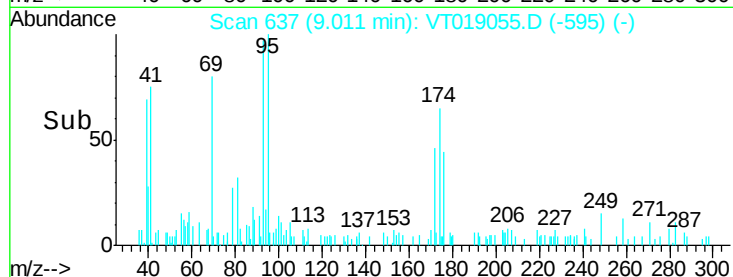
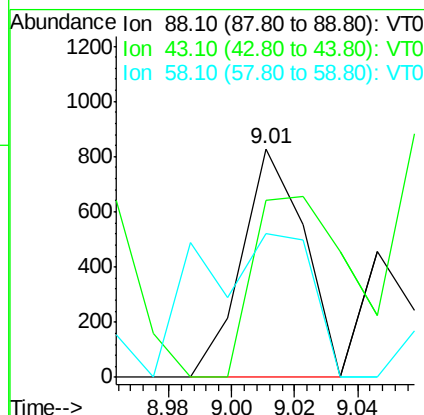
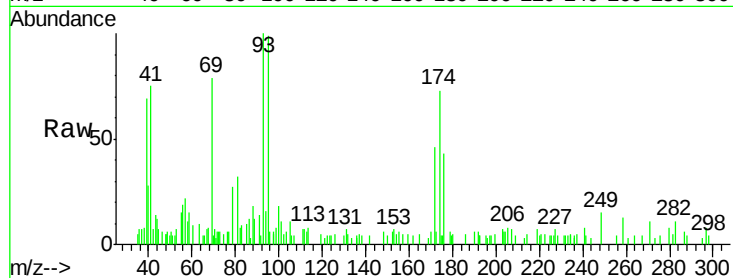




#48
1,4-Dioxane
Concen: 8.33 ug/l
RT: 9.01 min Scan# 637
Delta R.T. 0.00 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

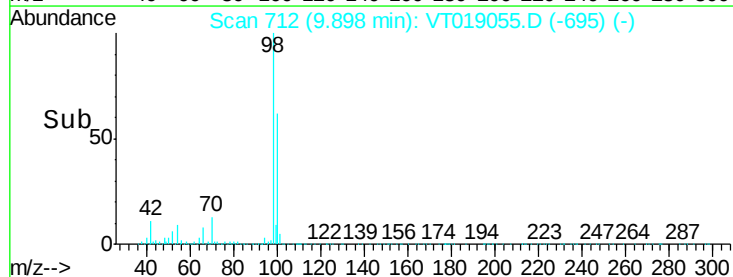
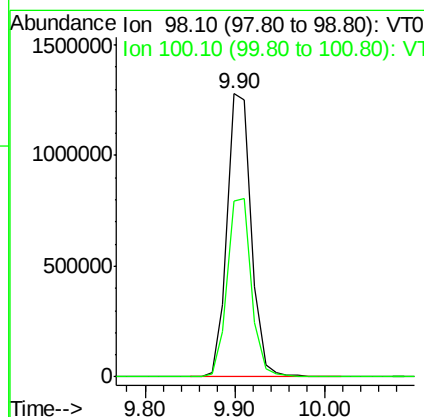
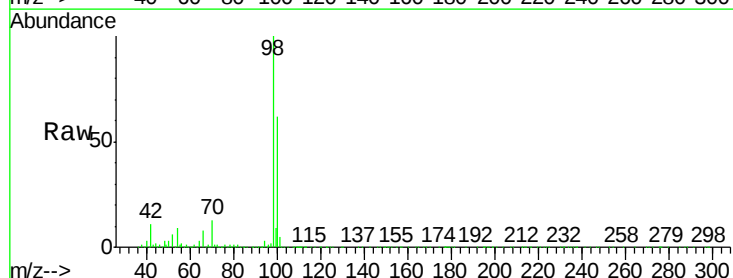
Instrument :
MSVOA_T
ClientSampleId :
MDL-SOIL-03-QT2-2018DL

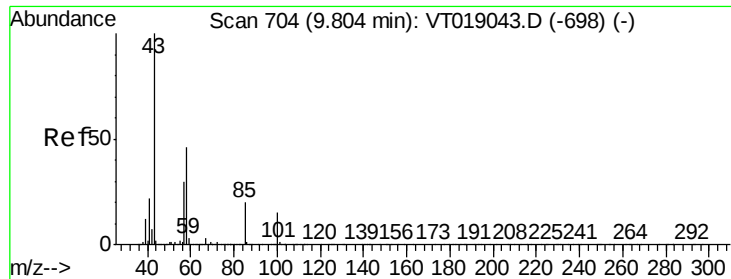
Tot Ion: 88 Resp: 1133
Ion Ratio Lower Upper
88 100
43 77.6 30.5 45.7#
58 147.5 67.5 101.3#



#49
Toluene-d8
Concen: 54.83 ug/l
RT: 9.90 min Scan# 712
Delta R.T. -0.00 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

Tgt Ion: 98 Resp: 2402033
Ion Ratio Lower Upper
98 100
100 62.1 50.0 75.0





#50

4-Methyl-2-Pentanone

Concen: 8.26 ug/l

RT: 9.80 min Scan# 704

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

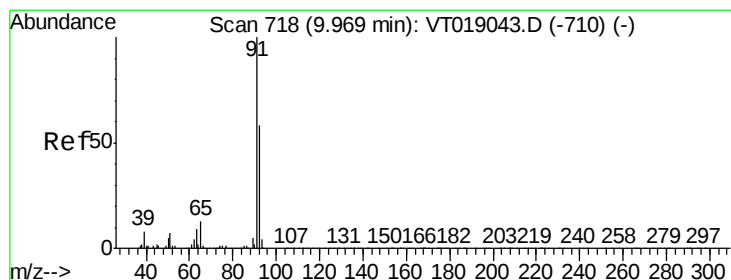
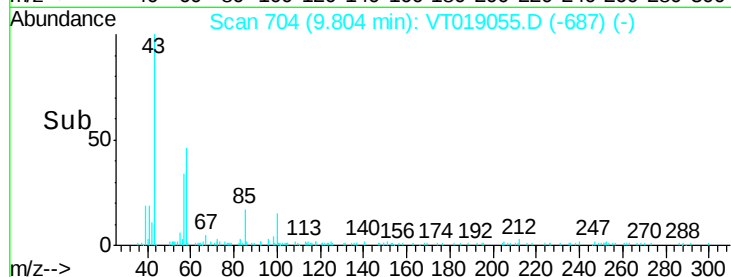
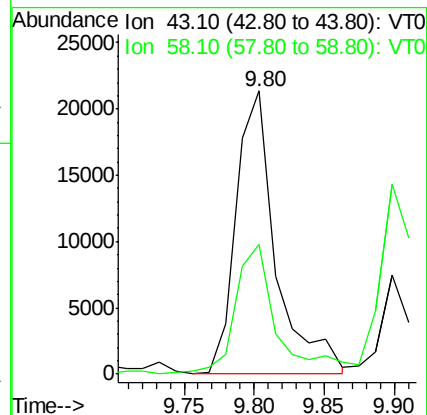
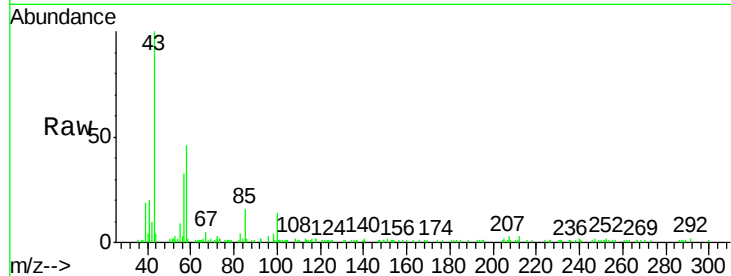
MDL-SOIL-03-QT2-2018DL

Tot Ion: 43 Resp: 42215

Ion Ratio Lower Upper

43 100

58 45.9 36.6 54.8



#51

Toluene

Concen: 2.05 ug/l

RT: 9.97 min Scan# 718

Delta R.T. -0.00 min

Lab File: VT019055.D

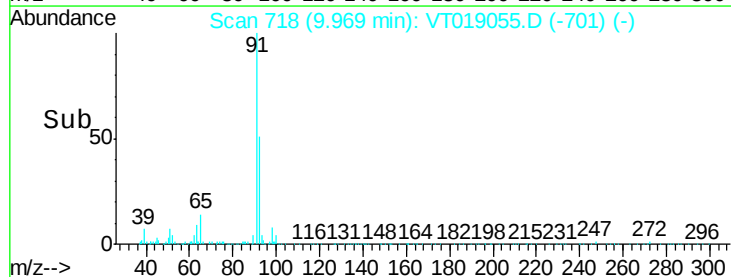
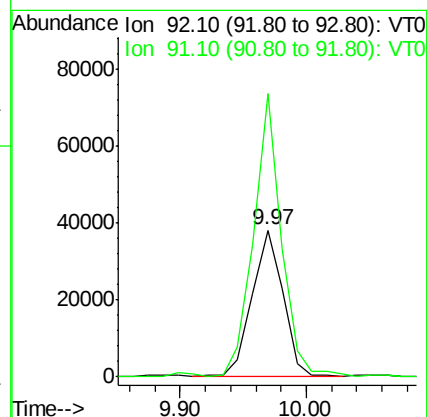
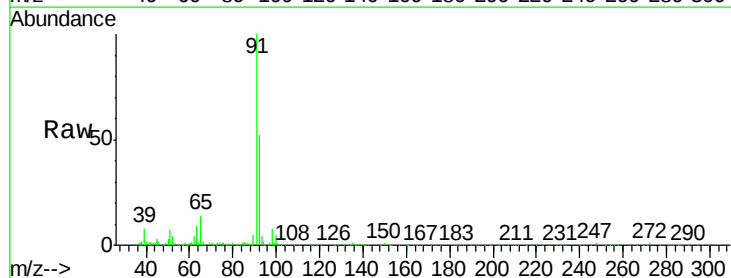
Acq: 9 May 2018 13:52

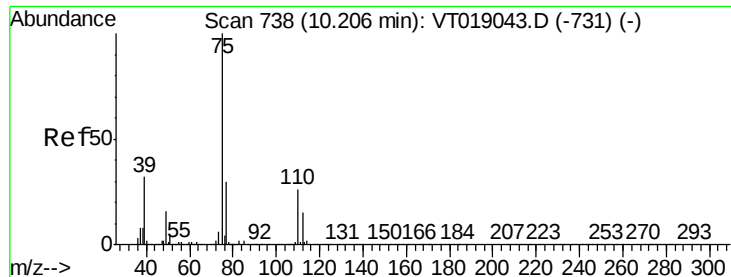
Tgt Ion: 92 Resp: 64989

Ion Ratio Lower Upper

92 100

91 193.2 137.8 206.6





#52

t-1,3-Dichloropropene

Concen: 1.55 ug/l

RT: 10.21 min Scan# 738

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

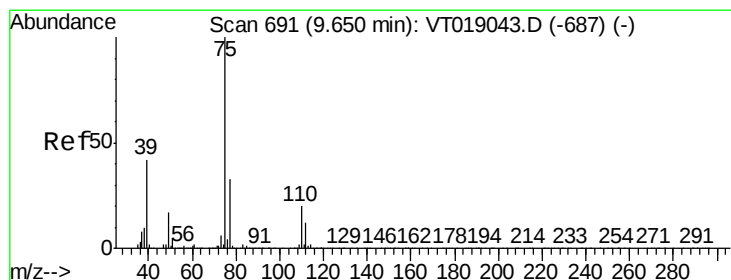
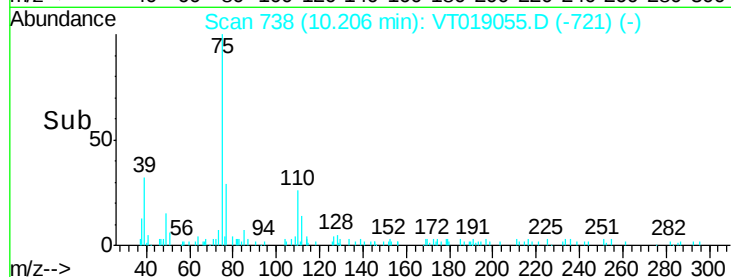
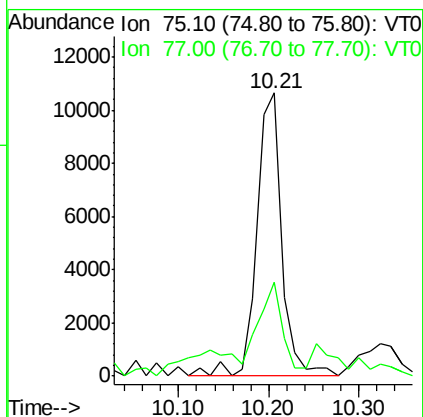
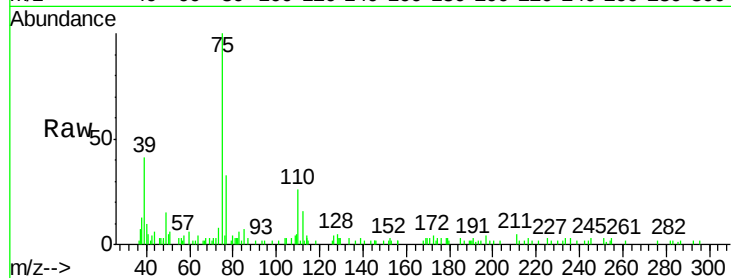
MDL-SOIL-03-QT2-2018DL

Tot Ion: 75 Resp: 20710

Ion Ratio Lower Upper

75 100

77 33.1 24.6 36.8



#53

cis-1,3-Dichloropropene

Concen: 1.55 ug/l

RT: 9.65 min Scan# 691

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

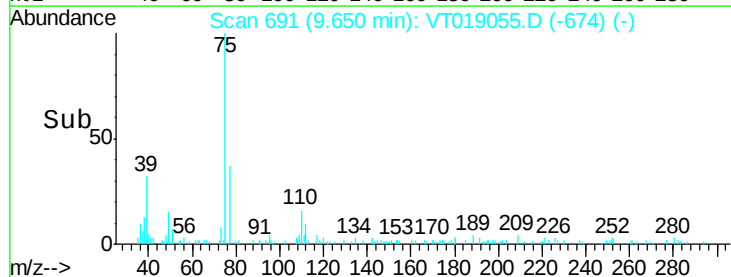
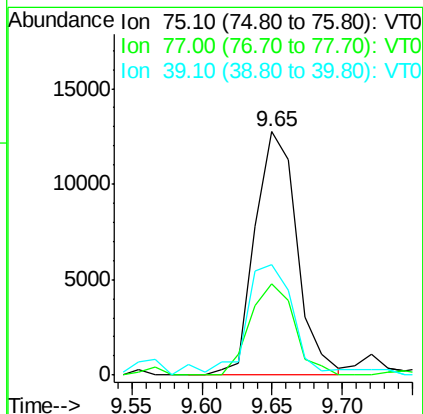
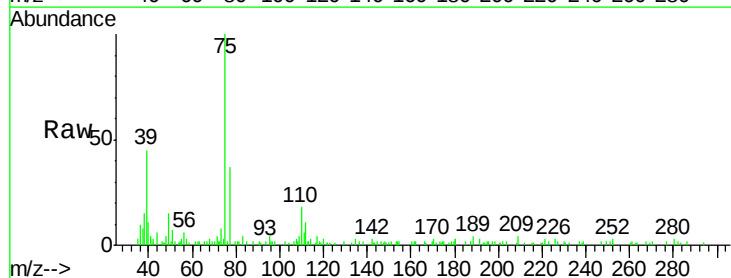
Tgt Ion: 75 Resp: 26450

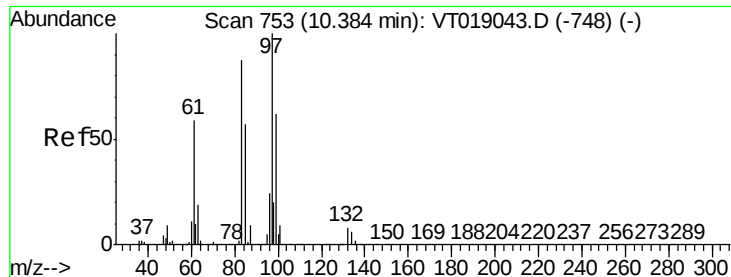
Ion Ratio Lower Upper

75 100

77 37.5 26.6 39.8

39 45.2 34.1 51.1





#54

1,1,2-Trichloroethane

Concen: 2.05 ug/l

RT: 10.38 min Scan# 753

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

Tot Ion: 97 Resp: 15719

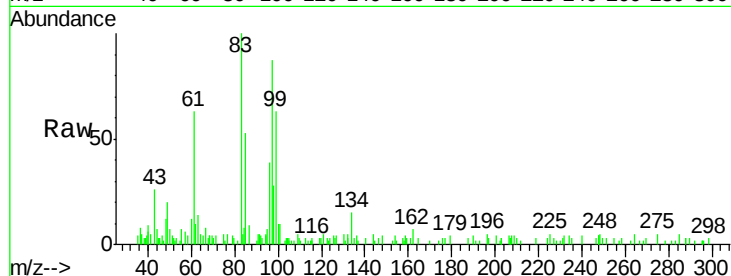
Ion Ratio Lower Upper

97 100

83 114.3 69.7 104.5#

85 61.0 46.1 69.1

99 71.5 49.6 74.4

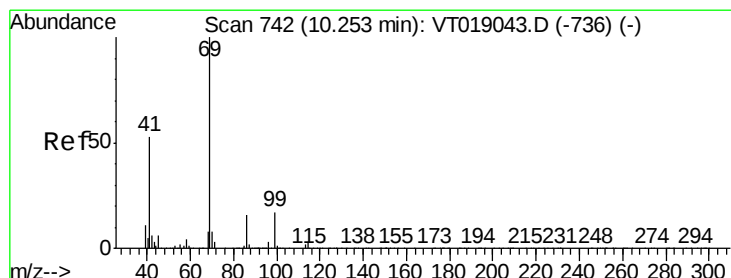
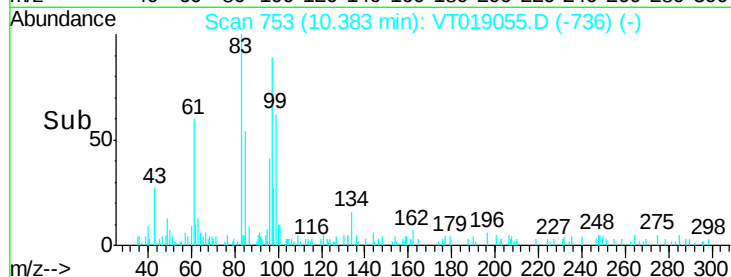
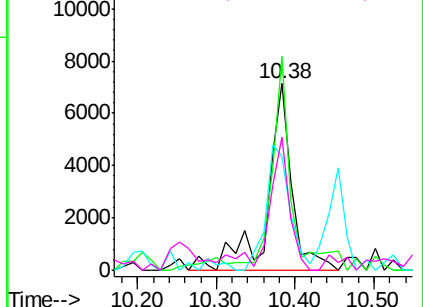


Abundance Ion 97.00 (96.70 to 97.70): VT0

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: 1.46 ug/l

RT: 10.25 min Scan# 742

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

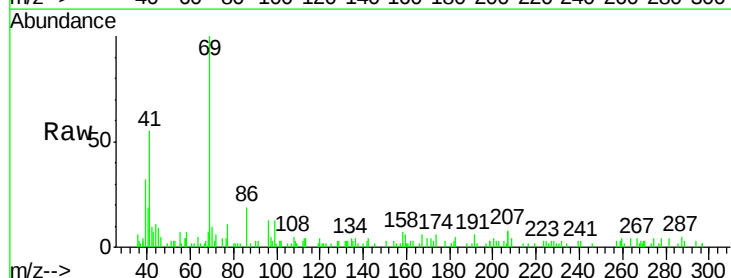
Tgt Ion: 69 Resp: 13445

Ion Ratio Lower Upper

69 100

41 55.3 42.9 64.3

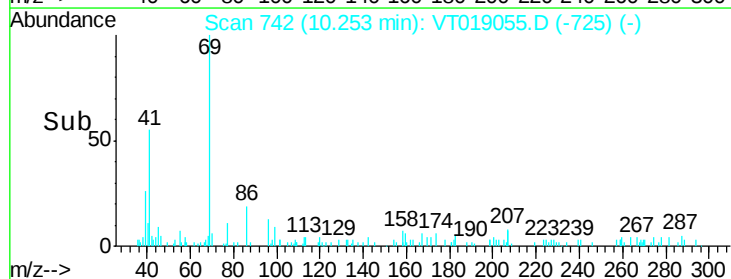
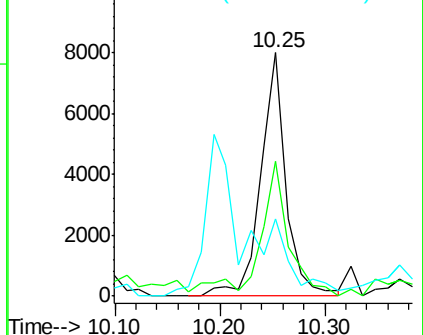
39 31.6 21.2 31.8

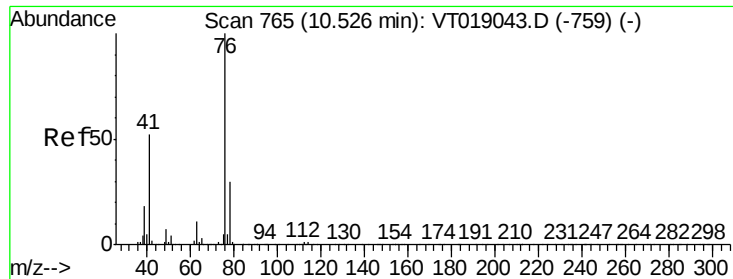


Abundance Ion 69.10 (68.80 to 69.80): VT0

Ion 41.10 (40.80 to 41.80): VT0

Ion 39.10 (38.80 to 39.80): VT0





#56

1,3-Dichloropropane

Concen: 1.82 ug/l

RT: 10.53 min Scan# 765

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

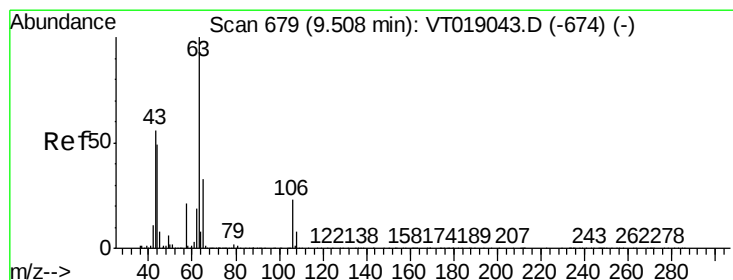
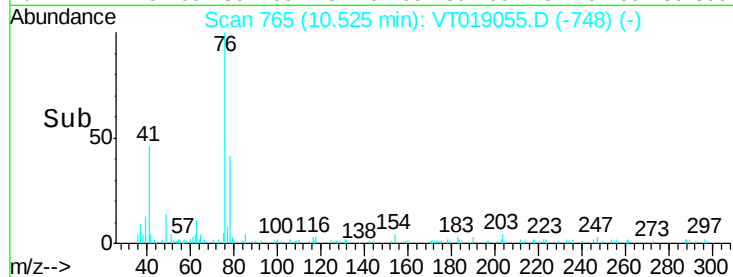
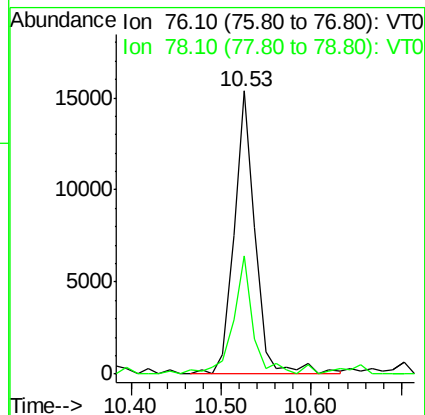
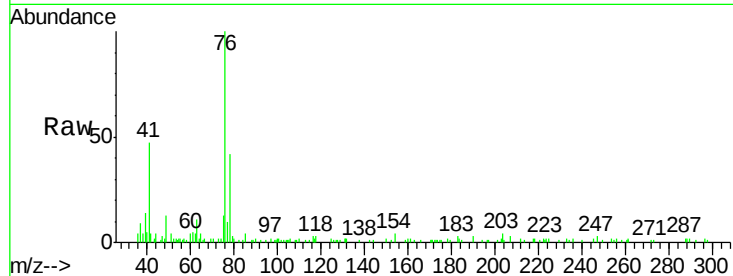
MDL-SOIL-03-QT2-2018DL

Tot Ion: 76 Resp: 25030

Ion Ratio Lower Upper

76 100

78 41.8 24.1 36.1#



#57

2-Chloroethyl Vinyl ether

Concen: 7.35 ug/l

RT: 9.51 min Scan# 679

Delta R.T. -0.00 min

Lab File: VT019055.D

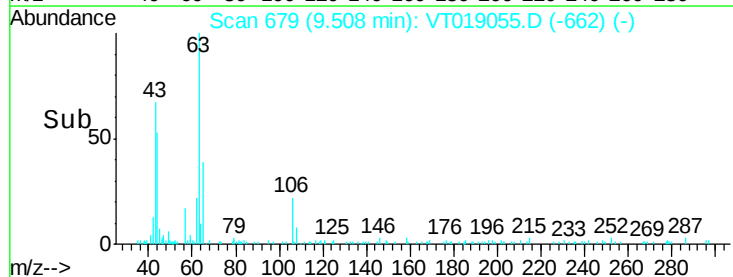
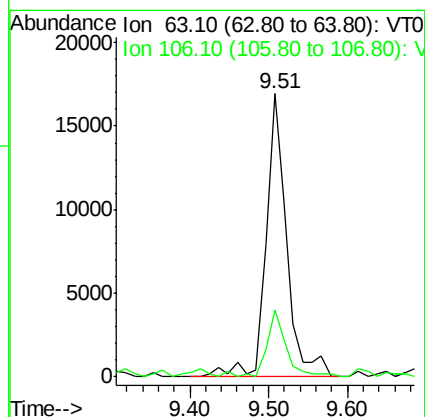
Acq: 9 May 2018 13:52

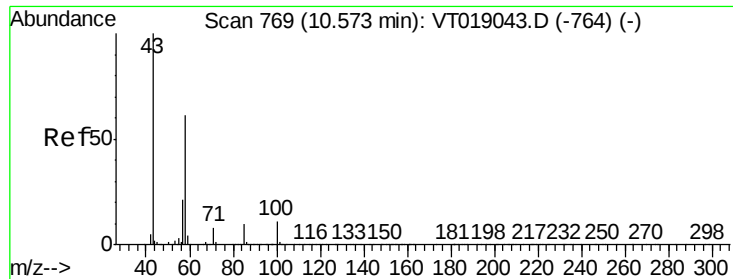
Tgt Ion: 63 Resp: 31168

Ion Ratio Lower Upper

63 100

106 23.6 18.7 28.1

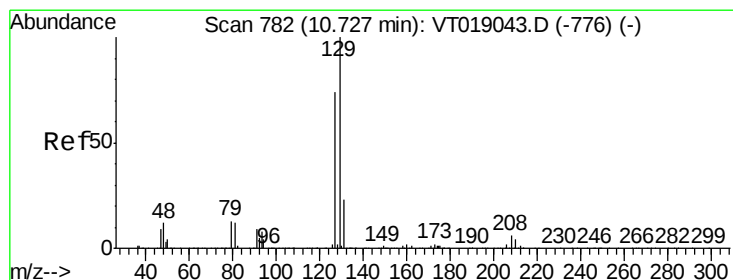
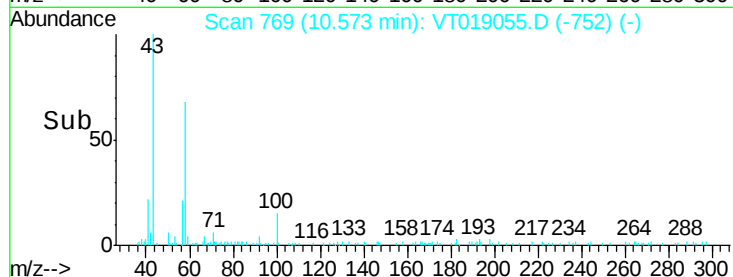
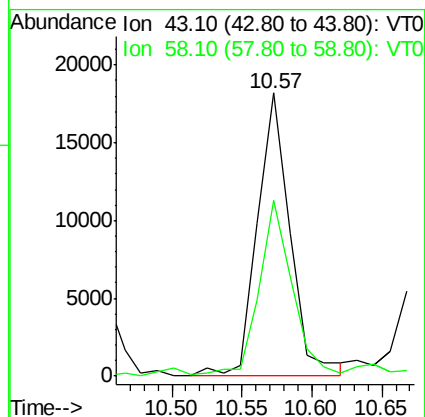
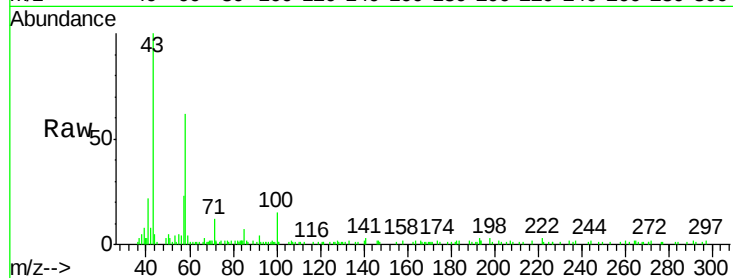




#58
2-Hexanone
Concen: 7.99 ug/l
RT: 10.57 min Scan# 769
Delta R.T. -0.00 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

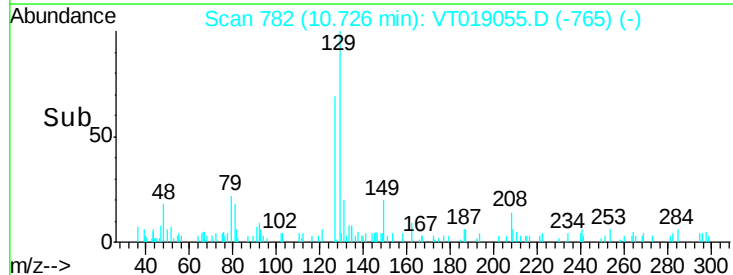
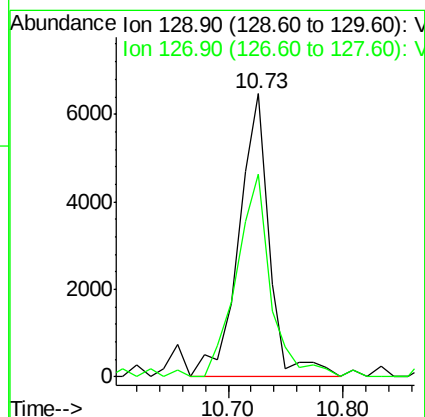
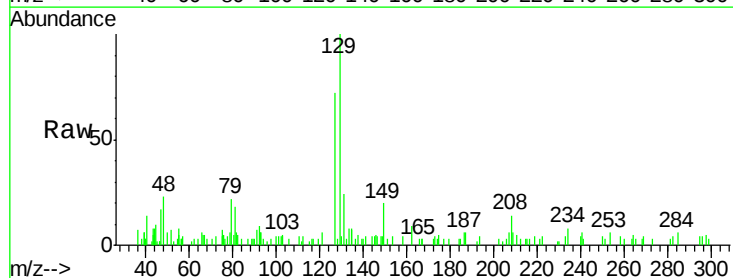
Instrument :
MSVOA_T
ClientSampleId :
MDL-SOIL-03-QT2-2018DL

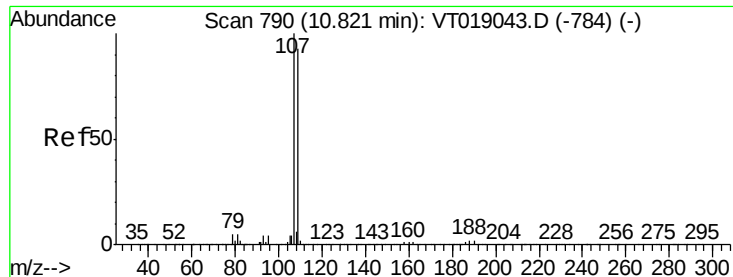
Tot Ion: 43 Resp: 29631
Ion Ratio Lower Upper
43 100
58 62.0 30.6 92.0



#59
Dibromochloromethane
Concen: 1.51 ug/l
RT: 10.73 min Scan# 782
Delta R.T. -0.00 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

Tgt Ion: 129 Resp: 12051
Ion Ratio Lower Upper
129 100
127 71.8 37.3 111.8

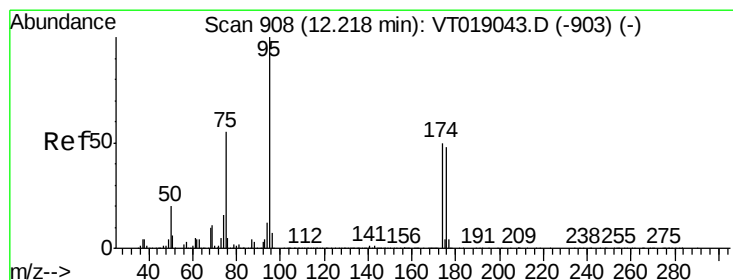
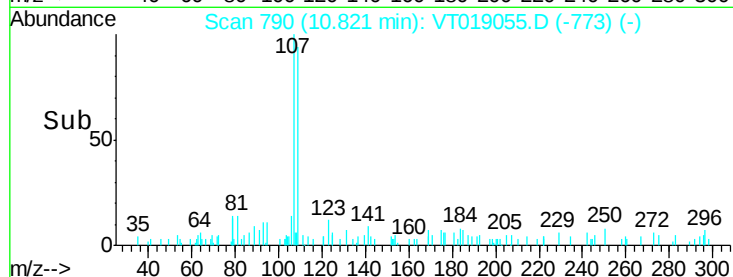
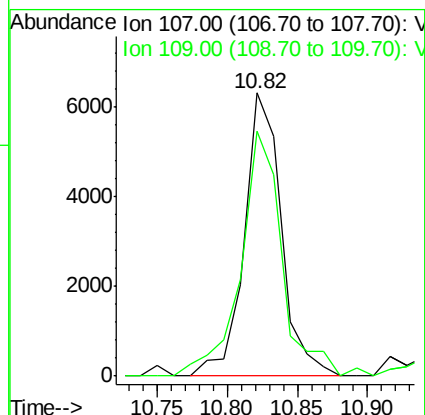
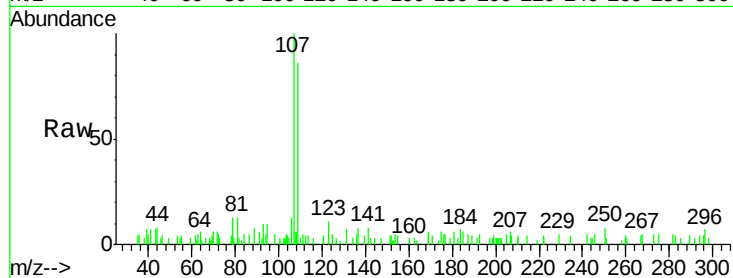




#60
 1,2-Dibromoethane
 Concen: 1.75 ug/l
 RT: 10.82 min Scan# 790
 Delta R.T. -0.00 min
 Lab File: VT019055.D
 Acq: 9 May 2018 13:52

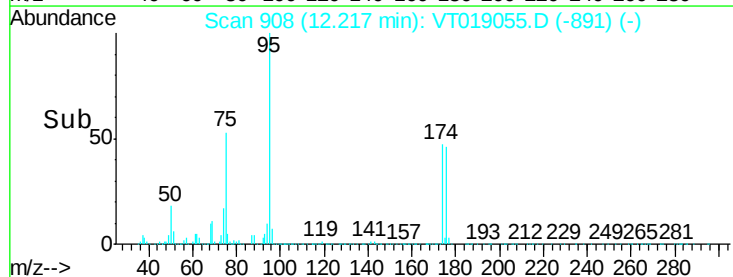
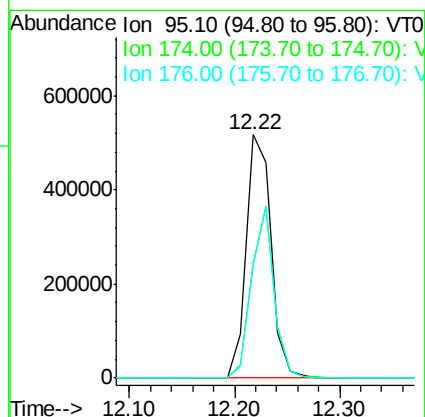
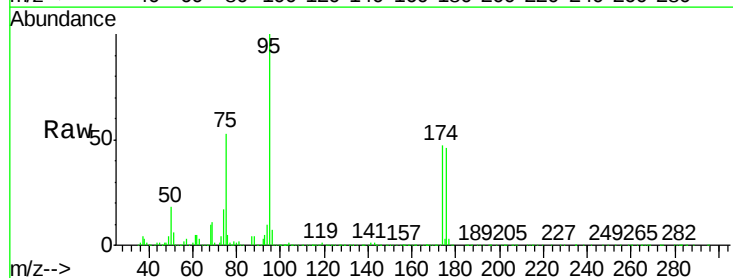
Instrument :
 MSVOA_T
 ClientSampleId :
 MDL-SOIL-03-QT2-2018DL

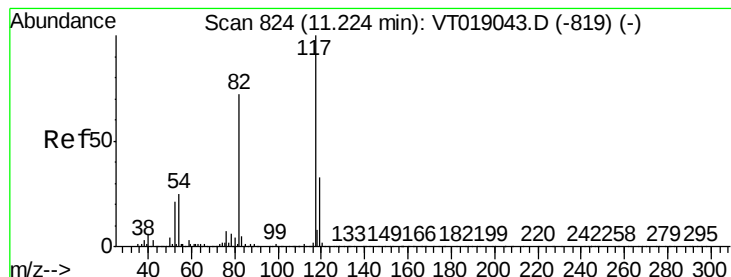
Tot Ion:107 Resp: 11608
 Ion Ratio Lower Upper
 107 100
 109 86.3 74.3 111.5



#61
 4-Bromofluorobenzene
 Concen: 51.20 ug/l
 RT: 12.22 min Scan# 908
 Delta R.T. -0.00 min
 Lab File: VT019055.D
 Acq: 9 May 2018 13:52

Tgt Ion: 95 Resp: 844491
 Ion Ratio Lower Upper
 95 100
 174 47.0 0.0 100.0
 176 46.3 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: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

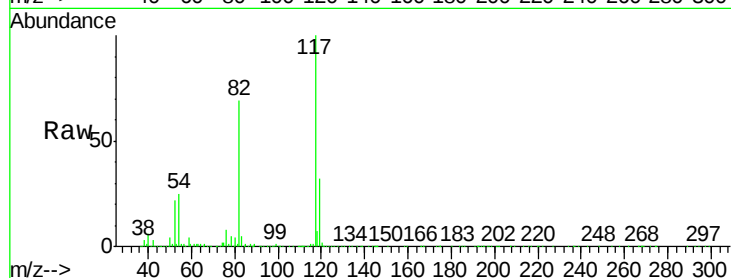
Tot Ion:117 Resp: 1514395

Ion Ratio Lower Upper

117 100

82 69.0 57.6 86.4

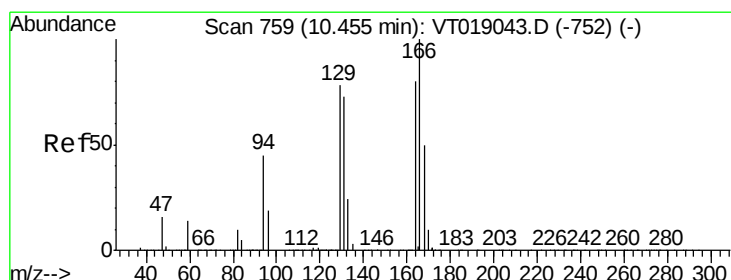
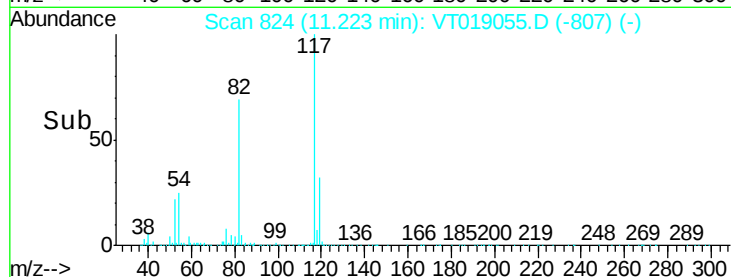
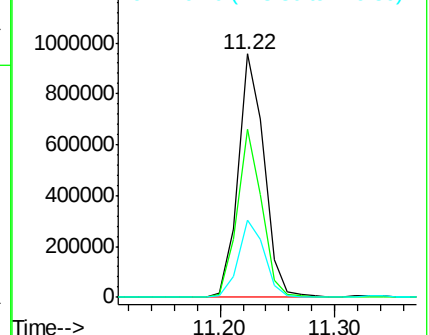
119 31.8 26.6 40.0



Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): V

Ion 119.10 (118.80 to 119.80): V



#63

Tetrachloroethene

Concen: 2.01 ug/l

RT: 10.45 min Scan# 759

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Tgt Ion:164 Resp: 20798

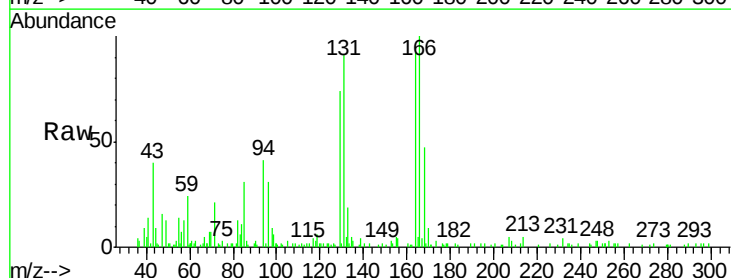
Ion Ratio Lower Upper

164 100

166 108.1 100.6 151.0

129 80.0 78.1 117.1

131 98.8 73.2 109.8

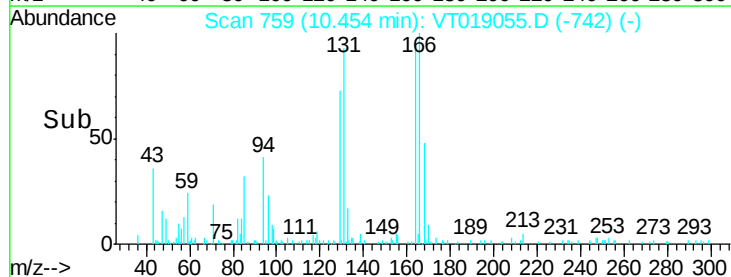
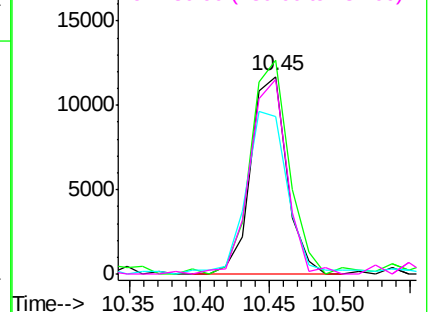


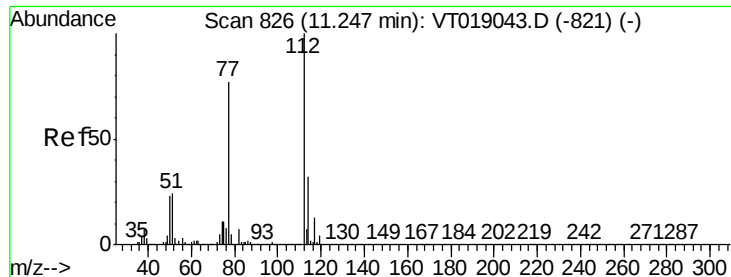
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V





#64

Chlorobenzene

Concen: 2.12 ug/l

RT: 11.25 min Scan# 826

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

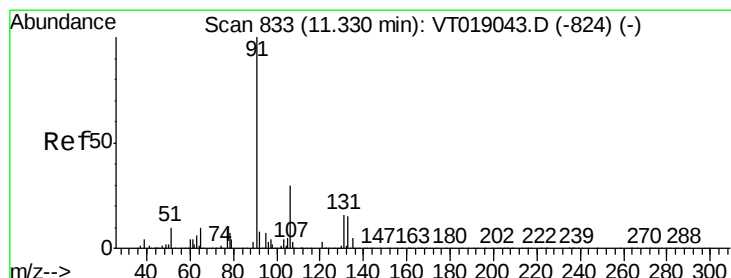
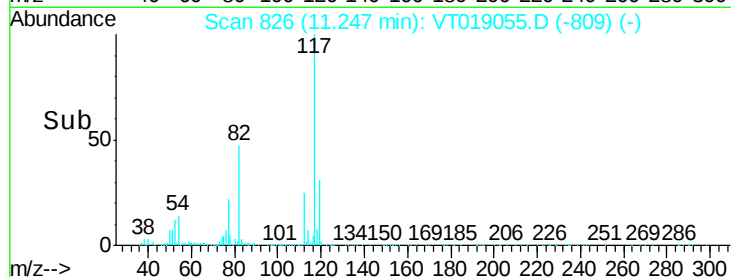
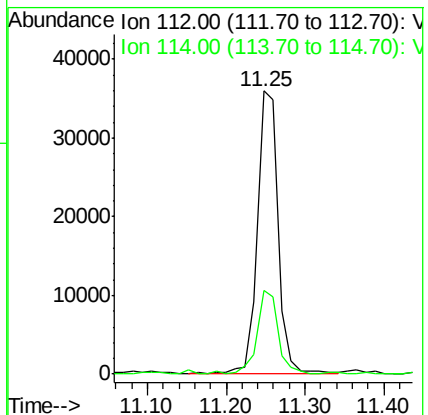
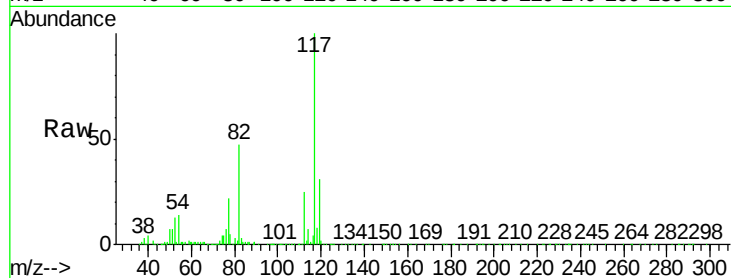
MDL-SOIL-03-QT2-2018DL

Tot Ion:112 Resp: 66382

Ion Ratio Lower Upper

112 100

114 29.6 25.5 38.3



#65

1,1,1,2-Tetrachloroethane

Concen: 1.87 ug/l

RT: 11.33 min Scan# 833

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

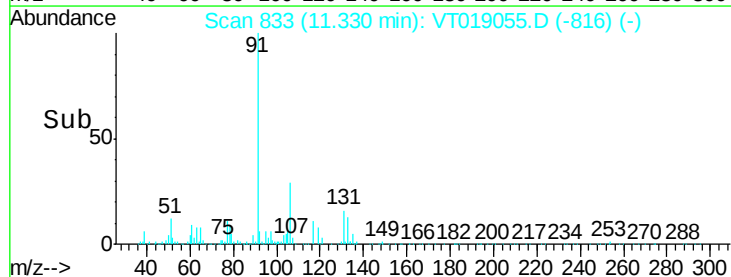
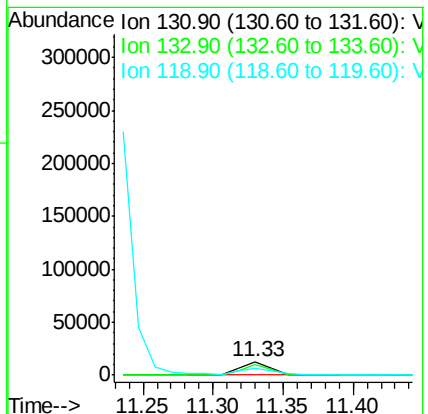
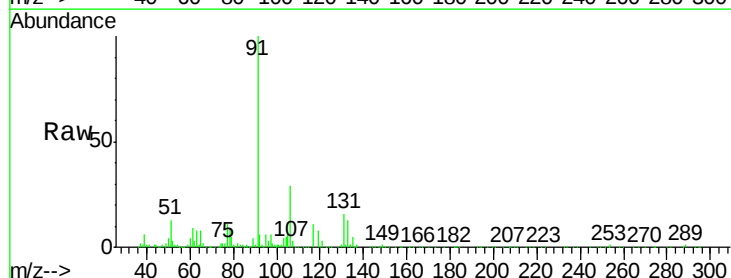
Tgt Ion:131 Resp: 19032

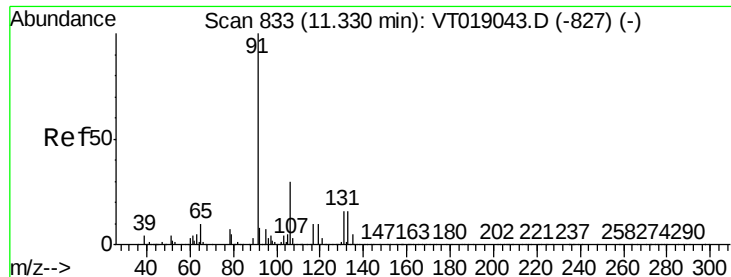
Ion Ratio Lower Upper

131 100

133 81.5 47.8 143.3

119 51.3 31.8 95.4





#66

Ethyl Benzene

Concen: 1.95 ug/l

RT: 11.33 min Scan# 833

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

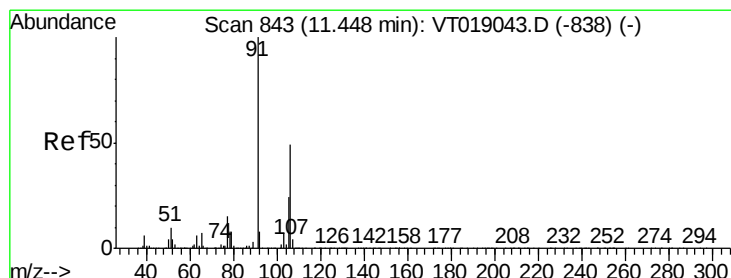
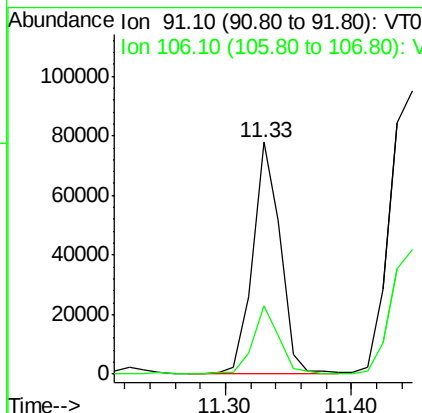
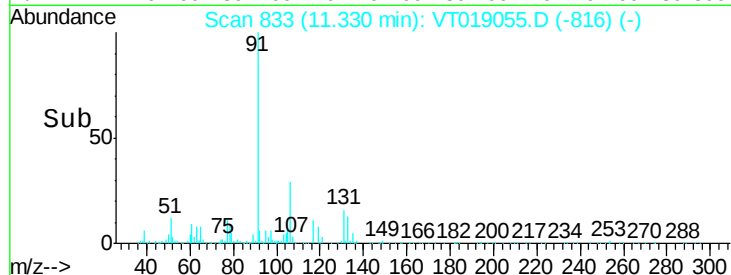
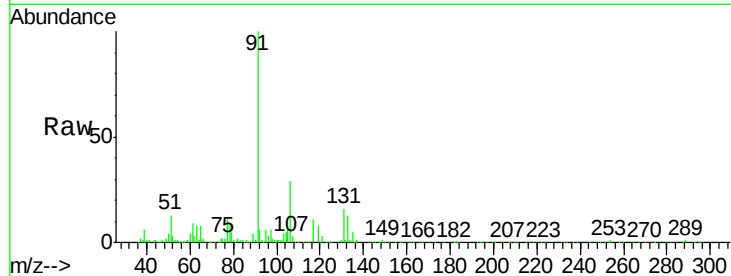
MDL-SOIL-03-QT2-2018DL

Tot Ion: 91 Resp: 117410

Ion Ratio Lower Upper

91 100

106 29.3 24.0 36.0



#67

m/p-Xylenes

Concen: 3.57 ug/l

RT: 11.45 min Scan# 843

Delta R.T. -0.00 min

Lab File: VT019055.D

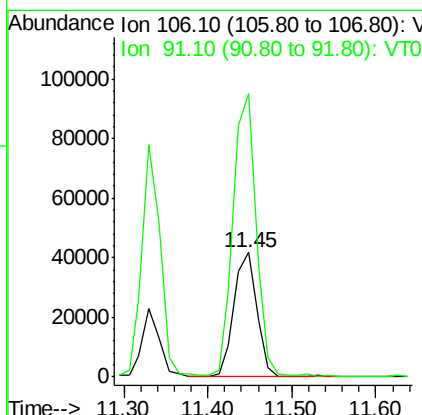
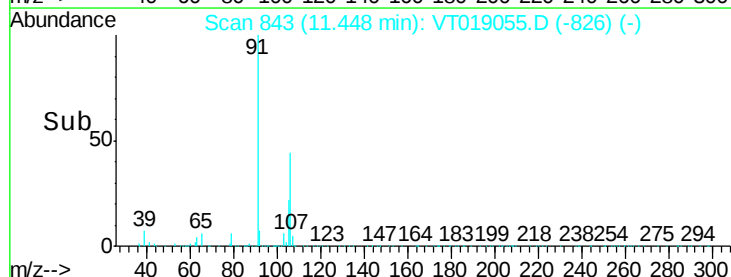
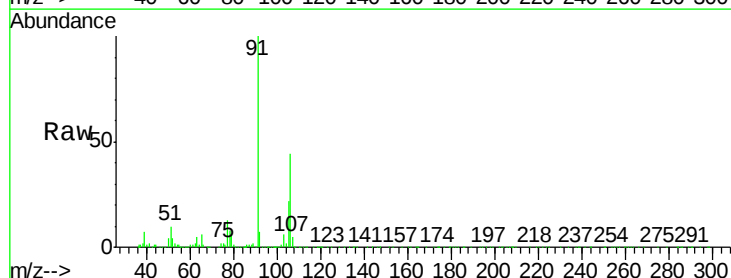
Acq: 9 May 2018 13:52

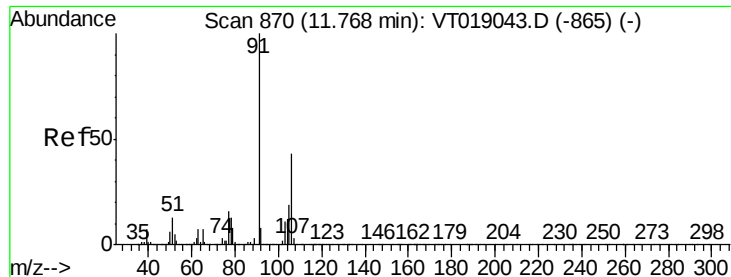
Tgt Ion: 106 Resp: 79744

Ion Ratio Lower Upper

106 100

91 227.8 162.2 243.4

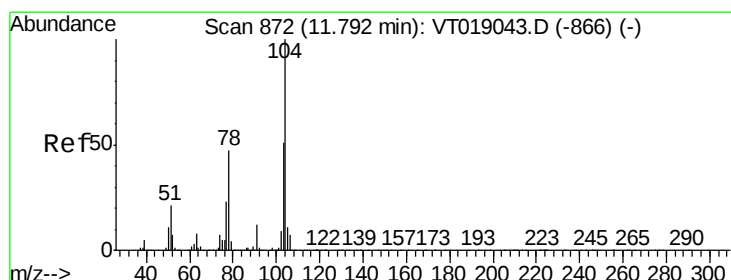
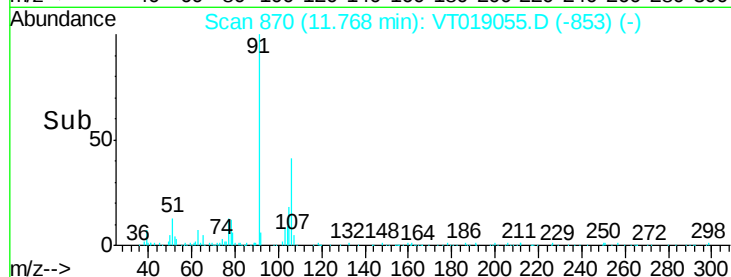
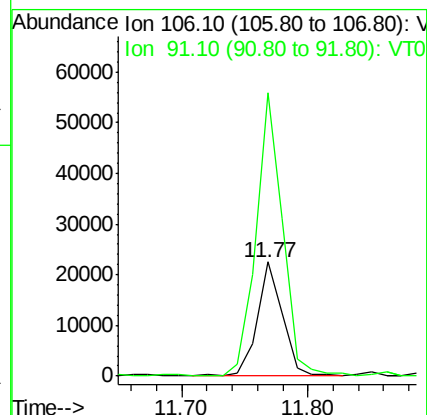
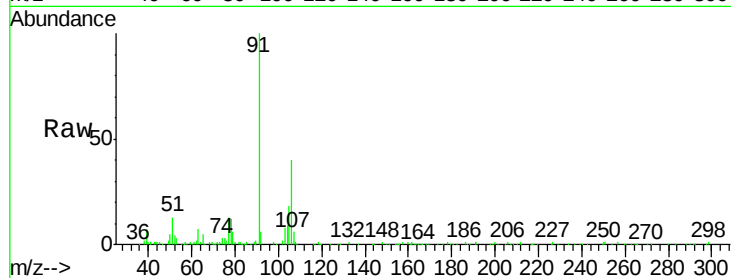




#68
o-Xylene
Concen: 1.52 ug/l
RT: 11.77 min Scan# 870
Delta R.T. -0.00 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

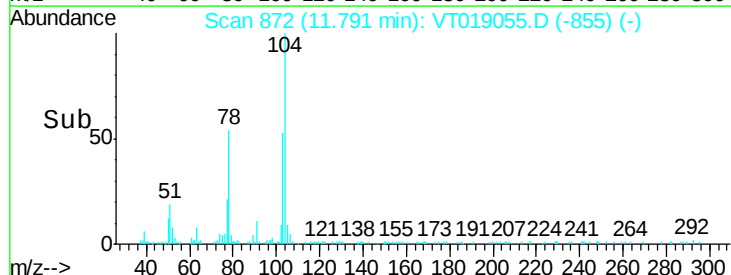
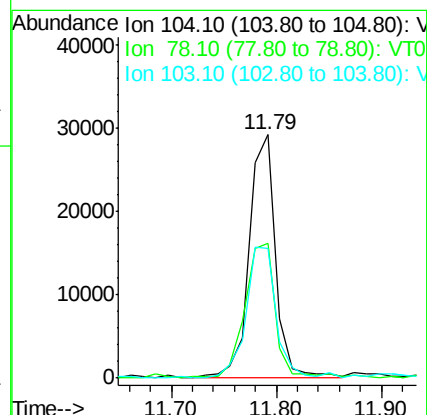
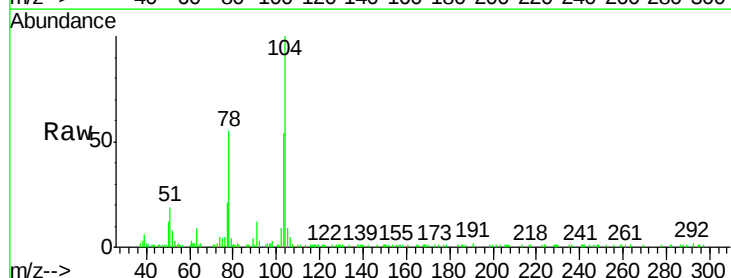
Instrument :
MSVOA_T
ClientSampleId :
MDL-SOIL-03-QT2-2018DL

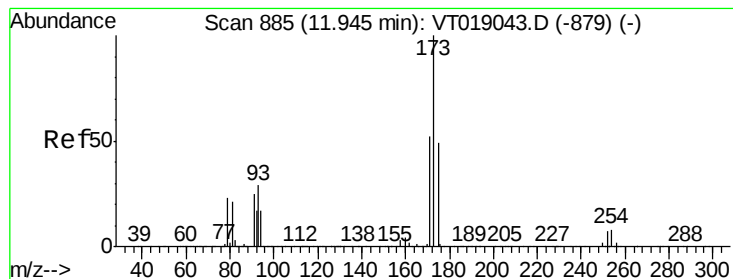
Tot Ion:106 Resp: 31868
Ion Ratio Lower Upper
106 100
91 248.2 116.0 348.0



#69
Styrene
Concen: 1.58 ug/l
RT: 11.79 min Scan# 872
Delta R.T. -0.00 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

Tgt Ion:104 Resp: 51290
Ion Ratio Lower Upper
104 100
78 55.2 38.0 57.0
103 53.5 40.6 61.0





#70

Bromoform

Concen: 1.66 ug/l

RT: 11.95 min Scan# 885

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

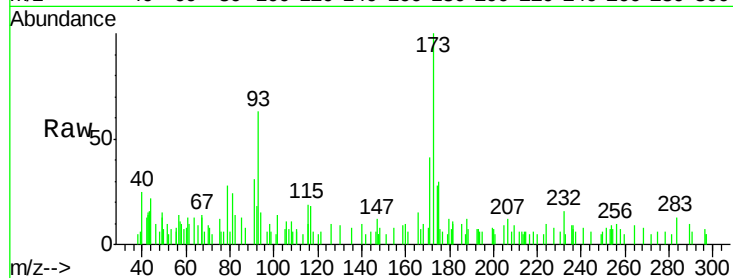
Tot Ion:173 Resp: 6441

Ion Ratio Lower Upper

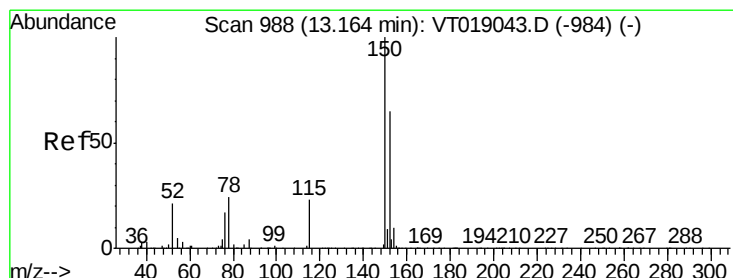
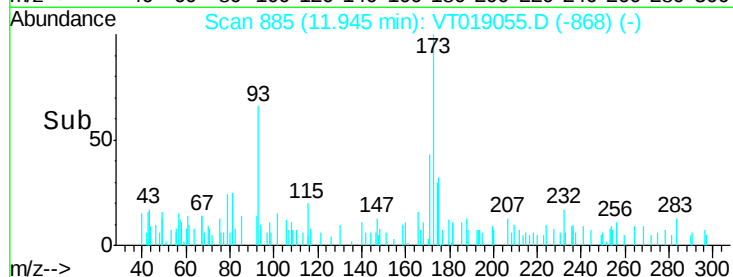
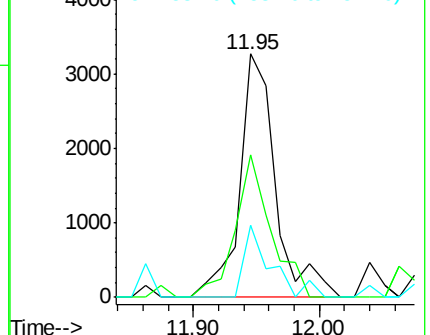
173 100

175 58.3 24.6 73.8

254 29.7 6.1 9.1#



Abundance Ion 172.80 (172.50 to 173.50): V
Ion 174.80 (174.50 to 175.50): V
Ion 253.70 (253.40 to 254.40): V



#71

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.16 min Scan# 988

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

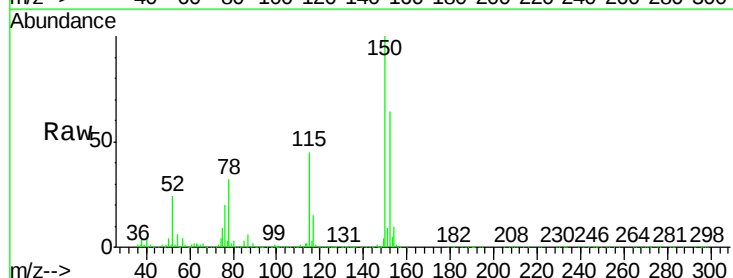
Tgt Ion:152 Resp: 657816

Ion Ratio Lower Upper

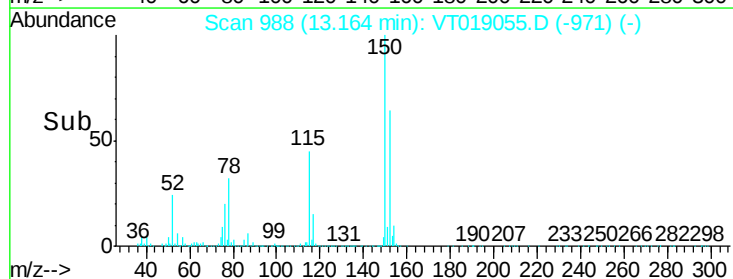
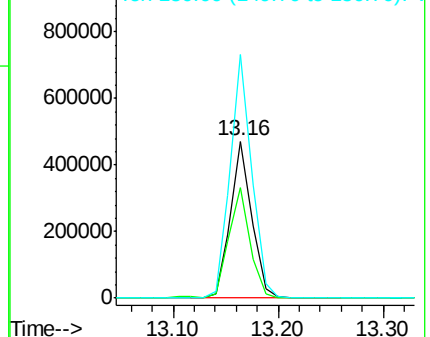
152 100

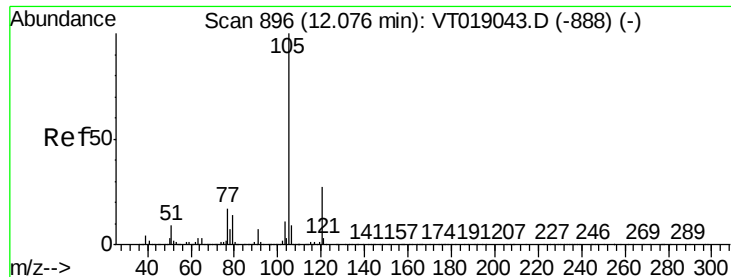
115 70.2 34.2 102.6

150 155.3 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: 1.88 ug/l

RT: 12.08 min Scan# 896

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

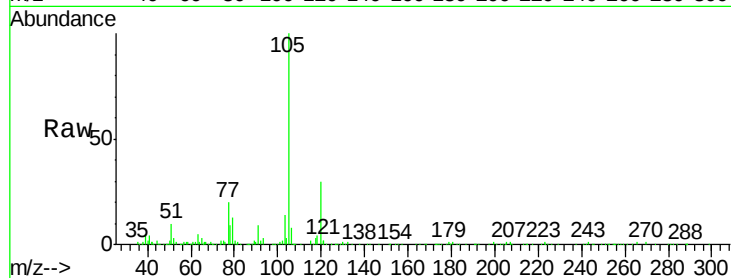
MDL-SOIL-03-QT2-2018DL

Tot Ion:105 Resp: 99923

Ion Ratio Lower Upper

105 100

120 29.7 13.6 40.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.10 (119.80 to 120.80): V

12.08

60000

40000

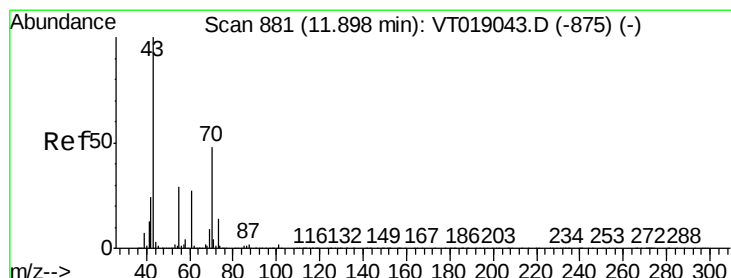
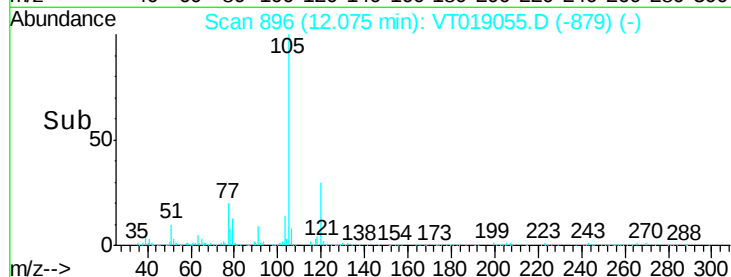
20000

0

Time-->

12.00

12.10



#73

N-ethyl acetate

Concen: 1.87 ug/l

RT: 11.90 min Scan# 881

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Tgt Ion: 43 Resp: 16336

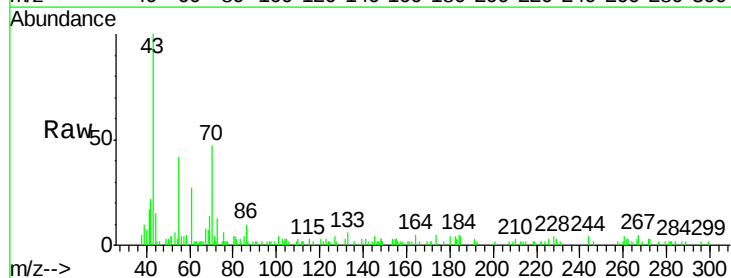
Ion Ratio Lower Upper

43 100

70 46.6 38.2 57.4

55 42.2 23.5 35.3#

61 27.4 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

11.90

15000

10000

5000

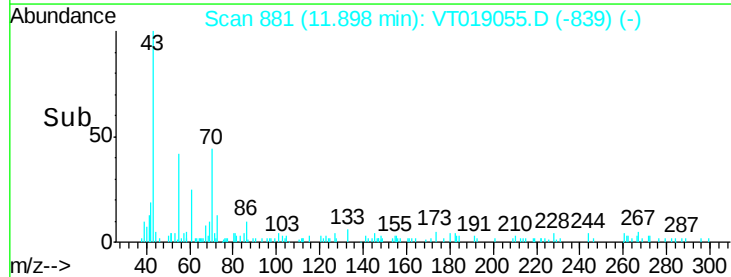
0

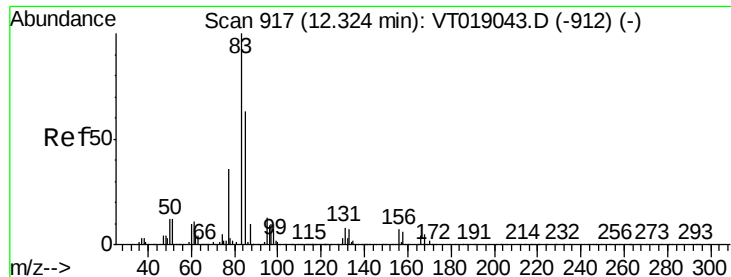
Time-->

11.80

11.90

12.00





#74

1,1,2,2-Tetrachloroethane

Concen: 2.18 ug/l

RT: 12.32 min Scan# 917

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

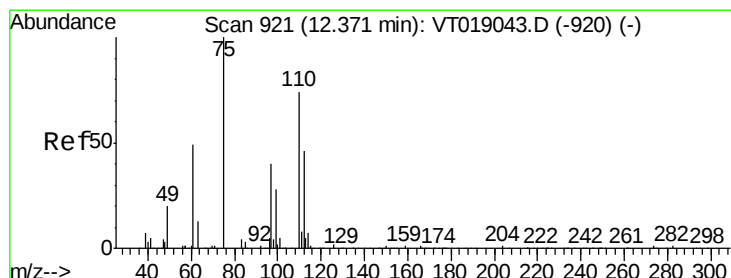
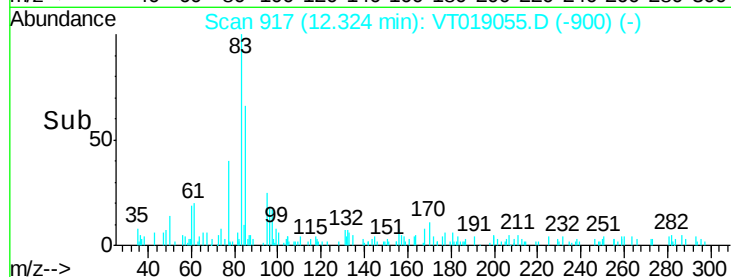
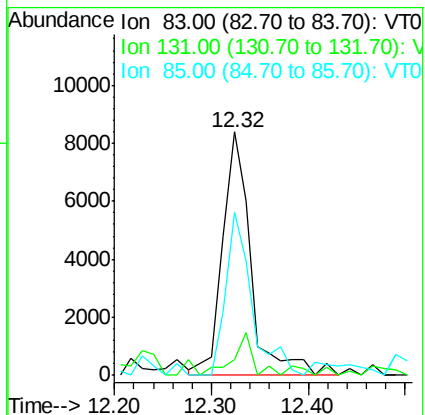
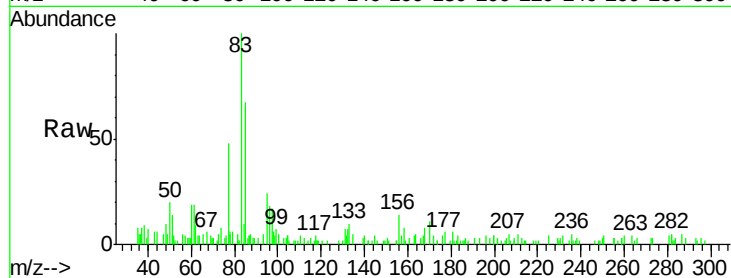
Tot Ion: 83 Resp: 17045

Ion Ratio Lower Upper

83 100

131 6.6 4.0 12.2

85 66.8 31.4 94.3



#75

1,2,3-Trichloropropane

Concen: 3.77 ug/l

RT: 12.37 min Scan# 921

Delta R.T. -0.00 min

Lab File: VT019055.D

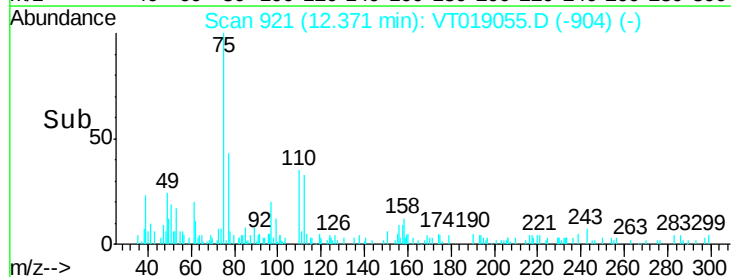
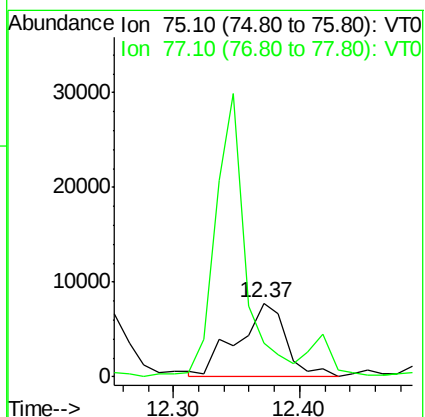
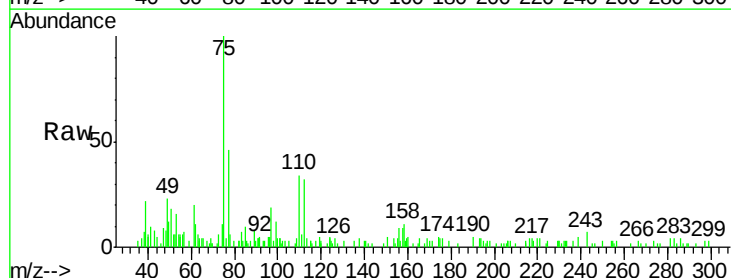
Acq: 9 May 2018 13:52

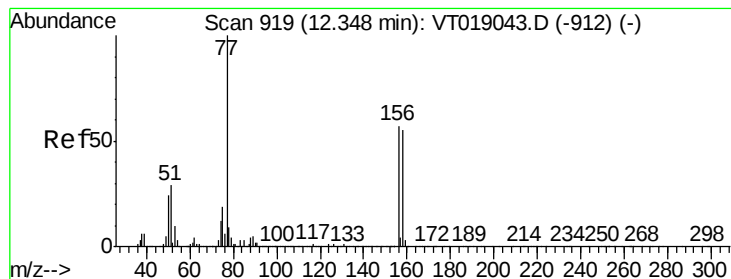
Tgt Ion: 75 Resp: 21072

Ion Ratio Lower Upper

75 100

77 46.5 21.1 63.1





#76

Bromobenzene

Concen: 1.94 ug/l

RT: 12.35 min Scan# 919

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

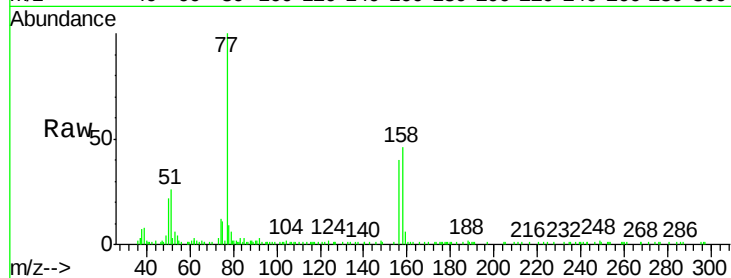
Tot Ion:156 Resp: 20394

Ion Ratio Lower Upper

156 100

77 251.6 87.8 263.4

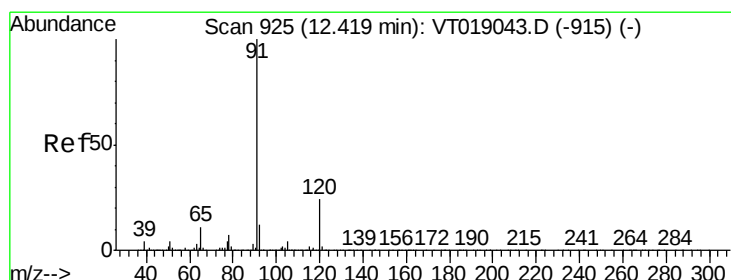
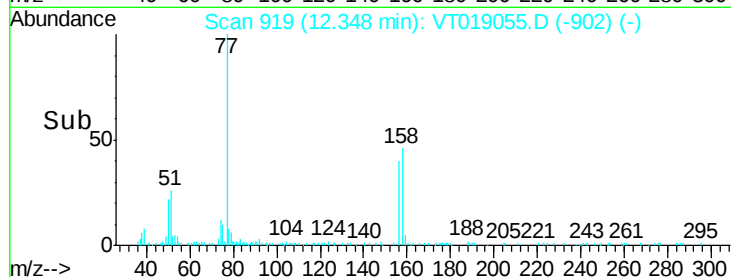
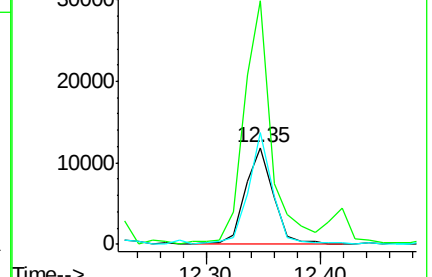
158 115.5 48.3 144.8



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: 2.94 ug/l

RT: 12.42 min Scan# 925

Delta R.T. 0.00 min

Lab File: VT019055.D

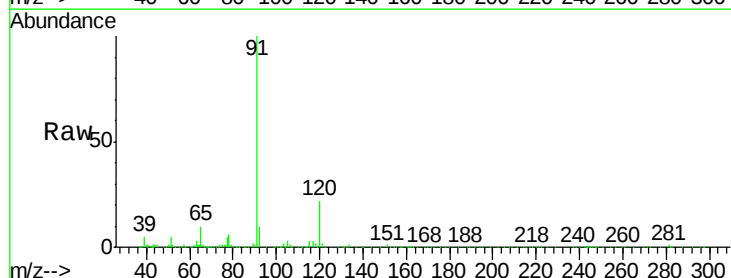
Acq: 9 May 2018 13:52

Tgt Ion: 91 Resp: 149346

Ion Ratio Lower Upper

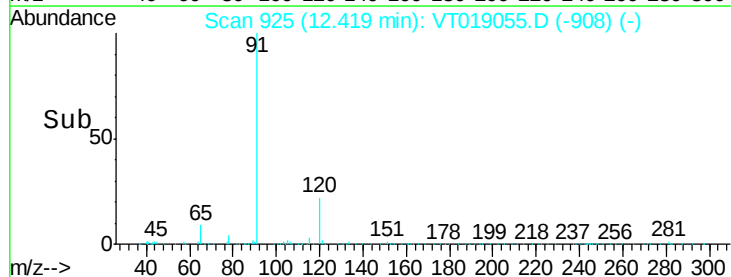
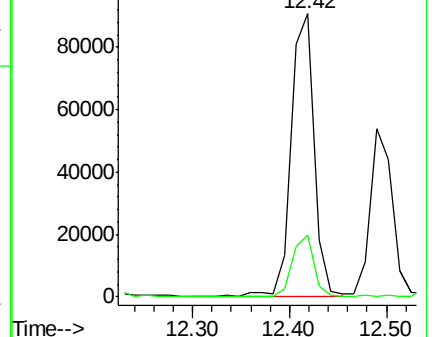
91 100

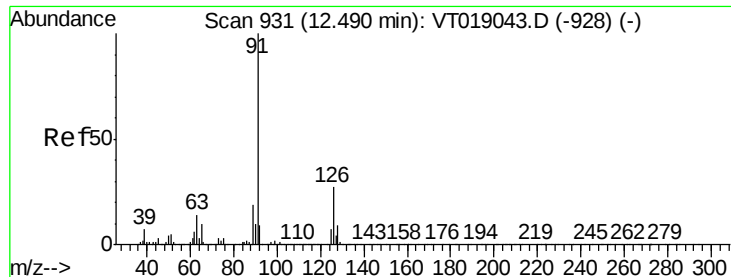
120 21.8 12.0 36.1



Abundance Ion 91.10 (90.80 to 91.80): VT0

Ion 120.10 (119.80 to 120.80): V





#78

2-Chlorotoluene

Concen: 2.16 ug/l

RT: 12.49 min Scan# 931

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

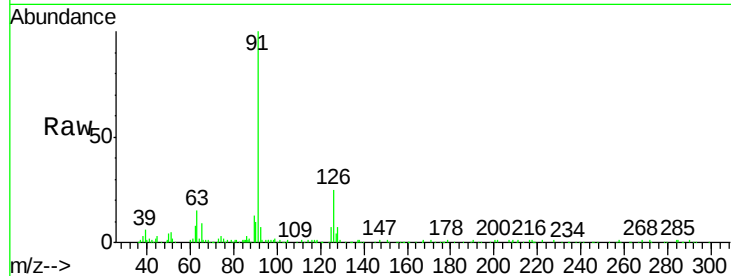
MDL-SOIL-03-QT2-2018DL

Tot Ion: 91 Resp: 84020

Ion Ratio Lower Upper

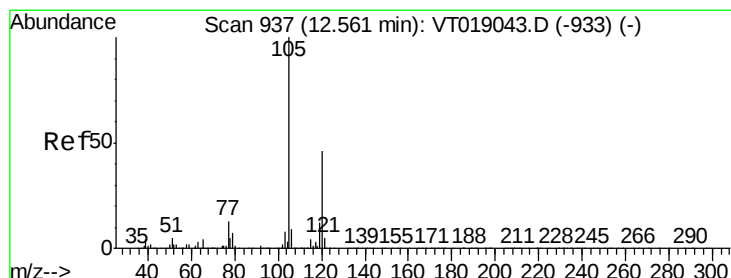
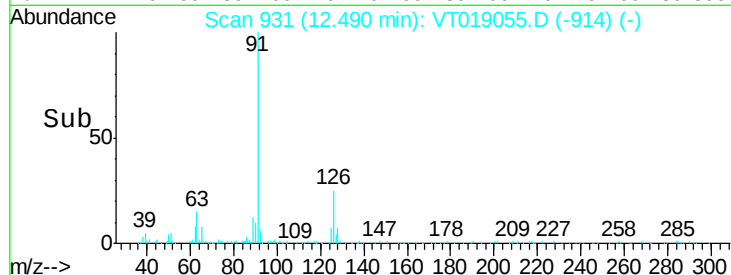
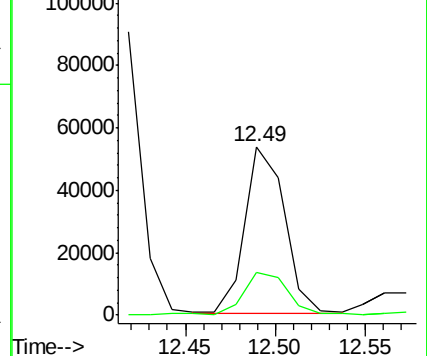
91 100

126 25.4 13.5 40.5



Abundance Ion 91.10 (90.80 to 91.80): VT0

Ion 126.00 (125.70 to 126.70): V



#79

1,3,5-Trimethylbenzene

Concen: 1.96 ug/l

RT: 12.56 min Scan# 937

Delta R.T. -0.00 min

Lab File: VT019055.D

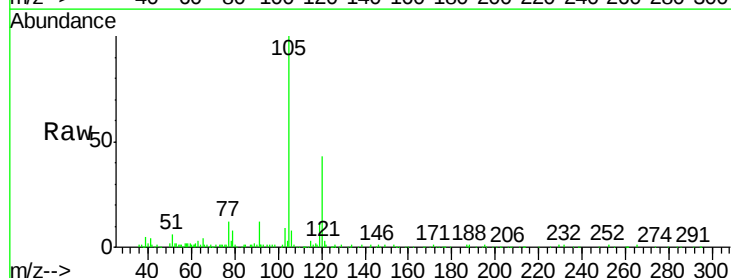
Acq: 9 May 2018 13:52

Tgt Ion:105 Resp: 90577

Ion Ratio Lower Upper

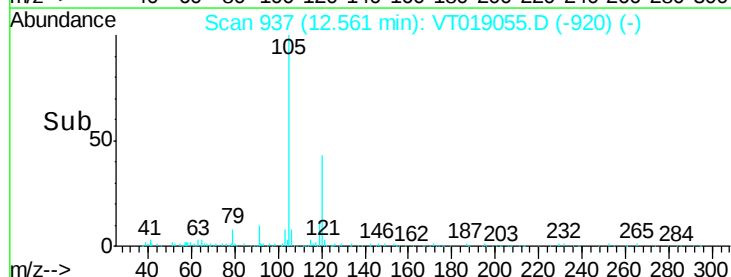
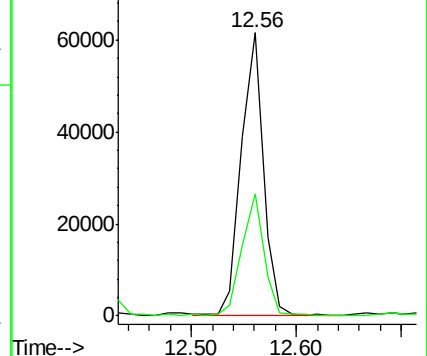
105 100

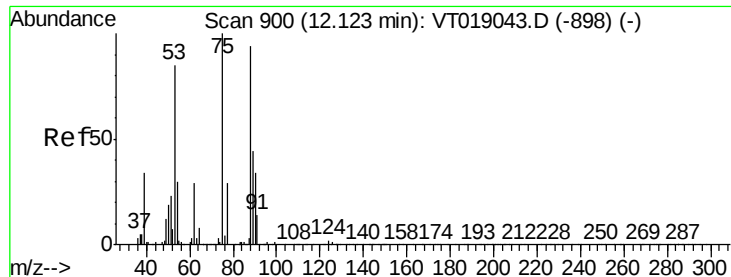
120 43.2 23.2 69.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.10 (119.80 to 120.80): V





#80

trans-1,4-Dichloro-2-butene

Concen: 1.81 ug/l m

RT: 12.12 min Scan# 900

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

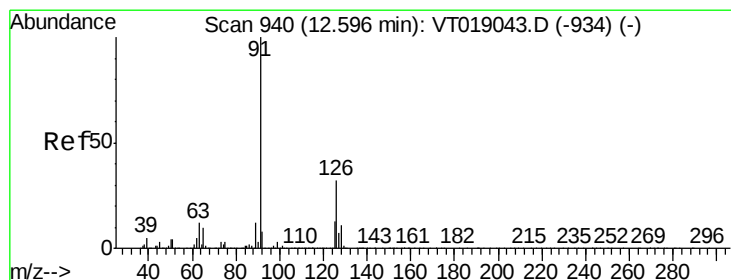
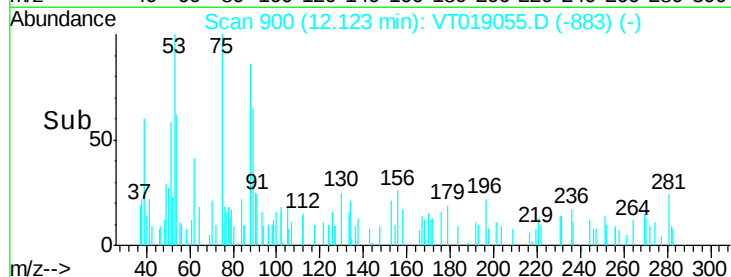
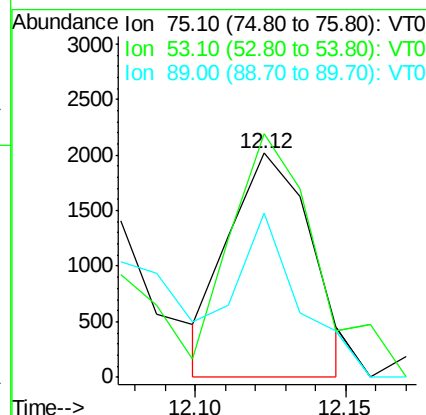
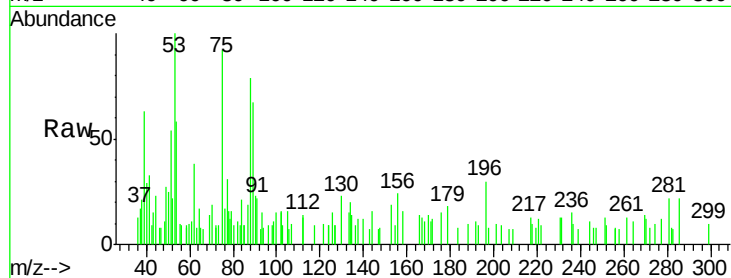
Tot Ion: 75 Resp: 3814

Ion Ratio Lower Upper

75 100

53 108.6 70.8 106.2#

89 73.1 35.8 53.8#



#81

4-Chlorotoluene

Concen: 2.01 ug/l

RT: 12.60 min Scan# 940

Delta R.T. -0.00 min

Lab File: VT019055.D

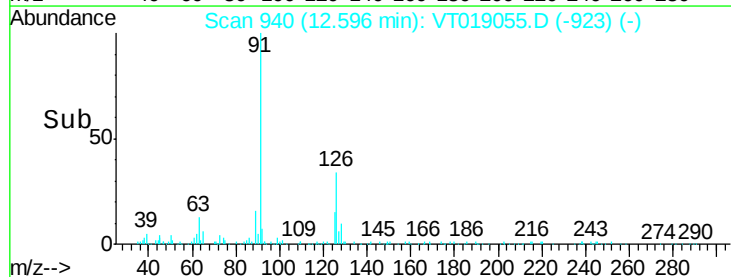
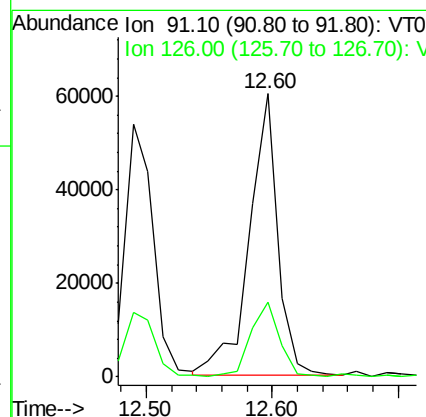
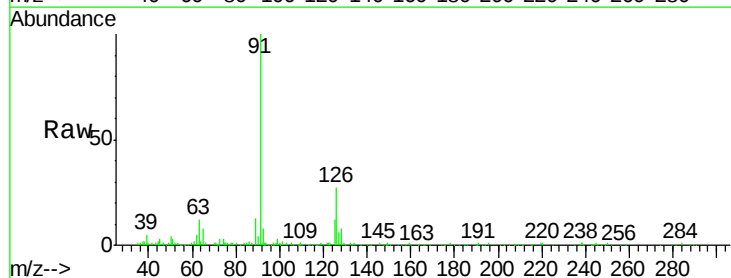
Acq: 9 May 2018 13:52

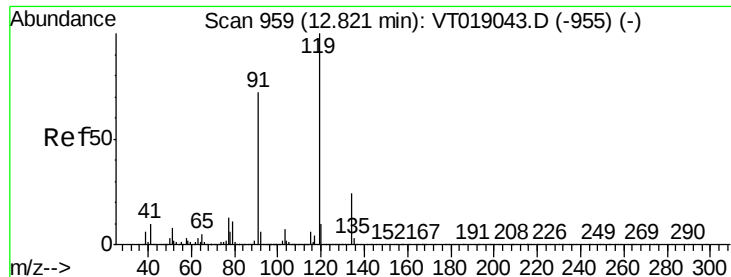
Tgt Ion: 91 Resp: 95052

Ion Ratio Lower Upper

91 100

126 26.6 16.0 47.9





#82

tert-Butylbenzene

Concen: 1.97 ug/l

RT: 12.82 min Scan# 959

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

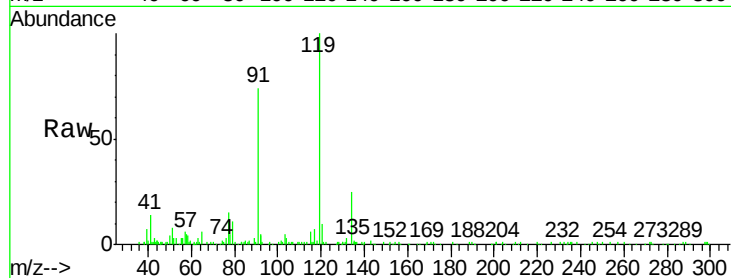
Tot Ion:119 Resp: 79166

Ion Ratio Lower Upper

119 100

91 74.2 36.1 108.3

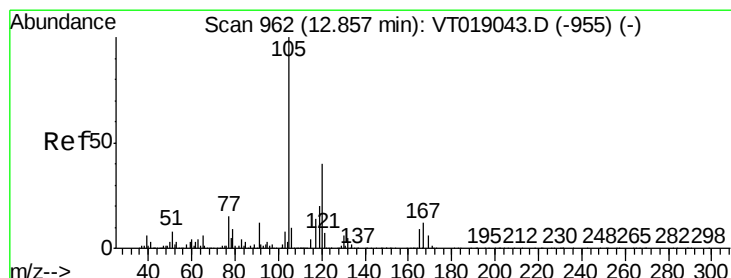
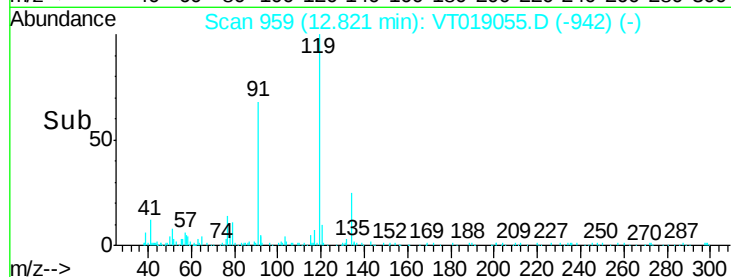
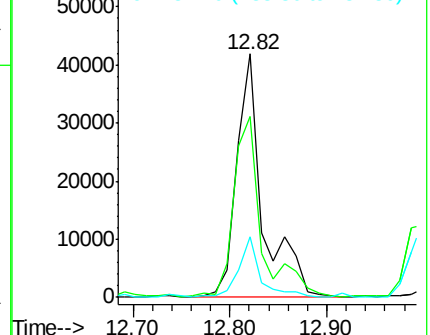
134 25.0 12.0 36.1



Abundance Ion 119.10 (118.80 to 119.80): V

Ion 91.10 (90.80 to 91.80): VT0

Ion 134.10 (133.80 to 134.80): V



#83

1,2,4-Trimethylbenzene

Concen: 1.88 ug/l

RT: 12.86 min Scan# 962

Delta R.T. -0.00 min

Lab File: VT019055.D

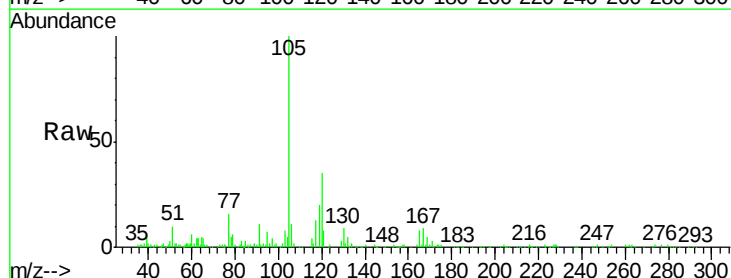
Acq: 9 May 2018 13:52

Tgt Ion:105 Resp: 88045

Ion Ratio Lower Upper

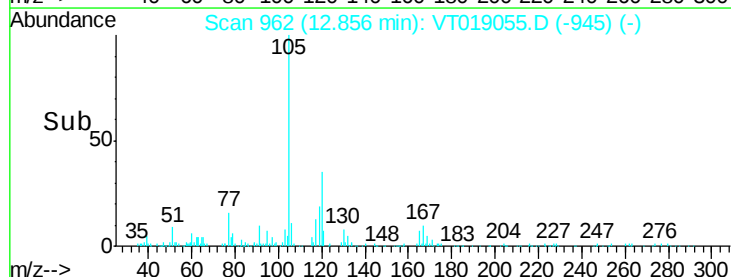
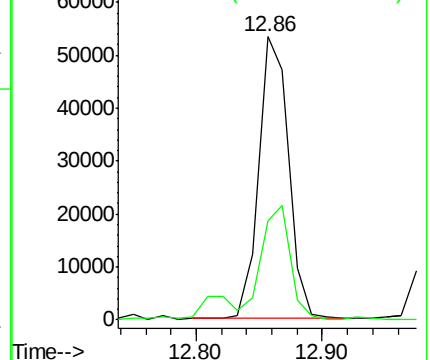
105 100

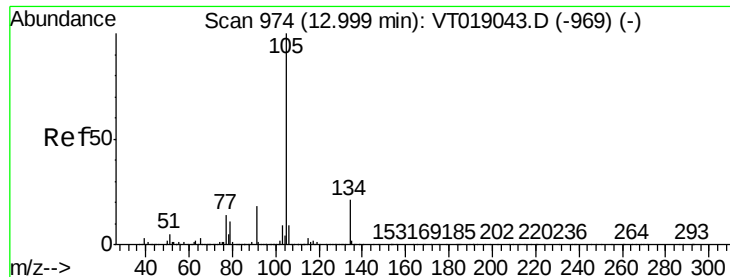
120 35.2 20.0 59.9



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.10 (119.80 to 120.80): V





#84

sec-Butylbenzene

Concen: 1.90 ug/l

RT: 13.00 min Scan# 974

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Instrument :

MSVOA_T

ClientSampleId :

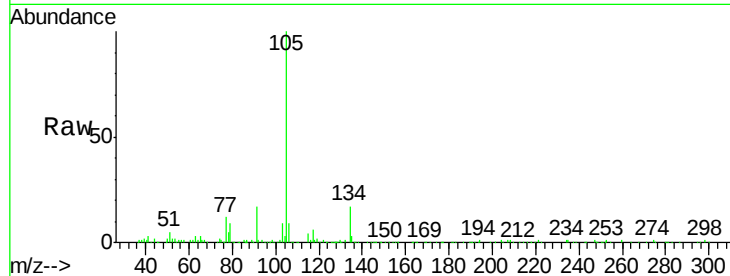
MDL-SOIL-03-QT2-2018DL

Tot Ion:105 Resp: 107793

Ion Ratio Lower Upper

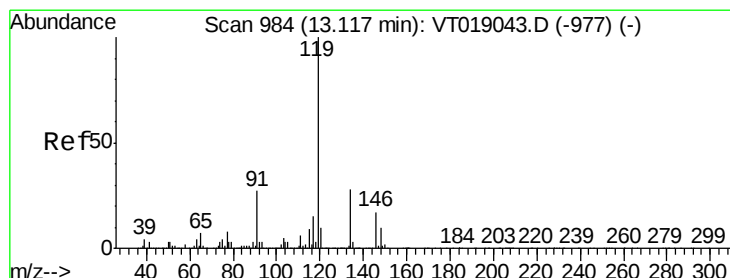
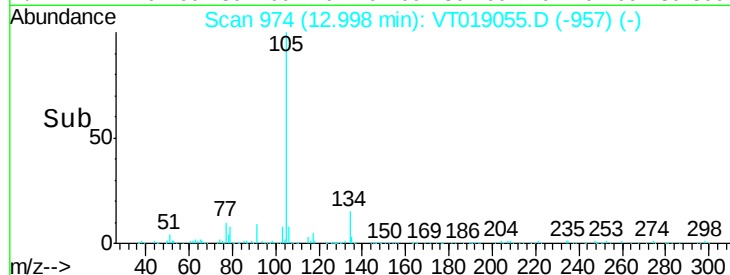
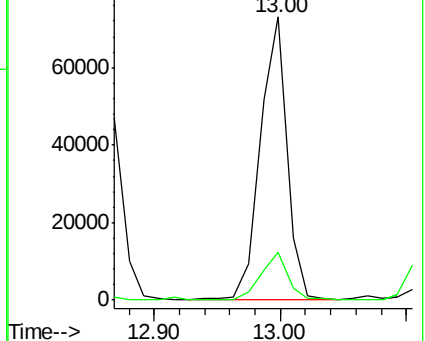
105 100

134 17.1 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: 1.81 ug/l

RT: 13.12 min Scan# 984

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

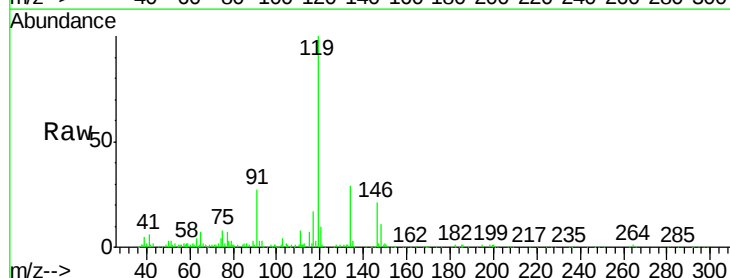
Tgt Ion:119 Resp: 86165

Ion Ratio Lower Upper

119 100

134 29.1 14.1 42.3

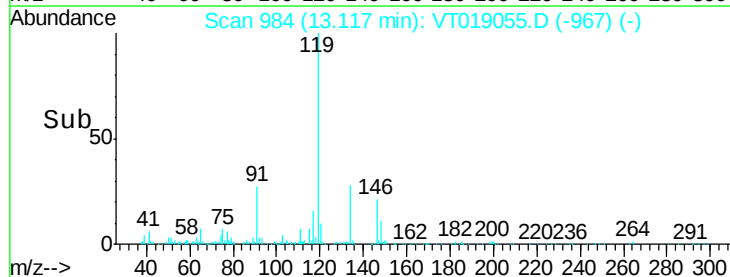
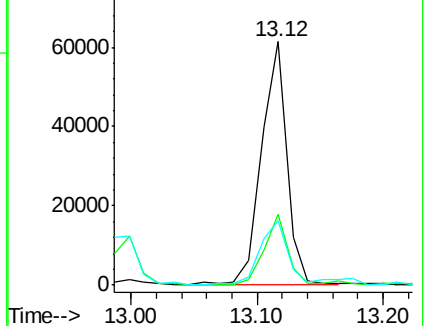
91 26.7 13.5 40.4

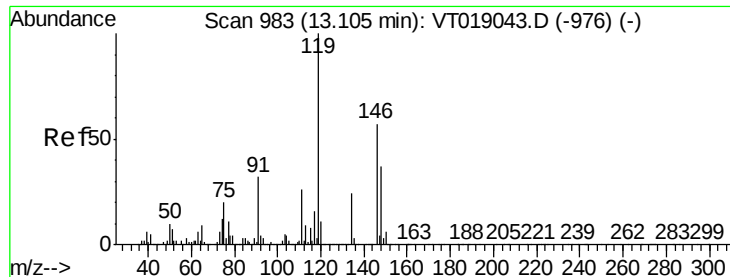


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.10 (90.80 to 91.80): VT0

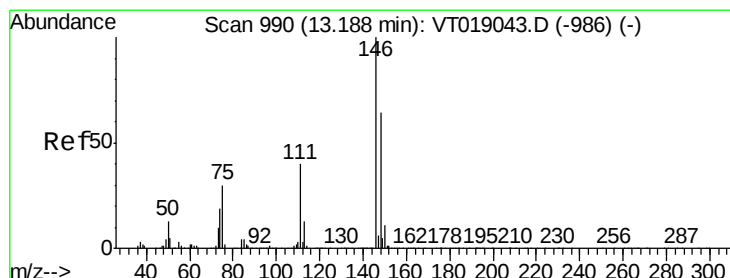
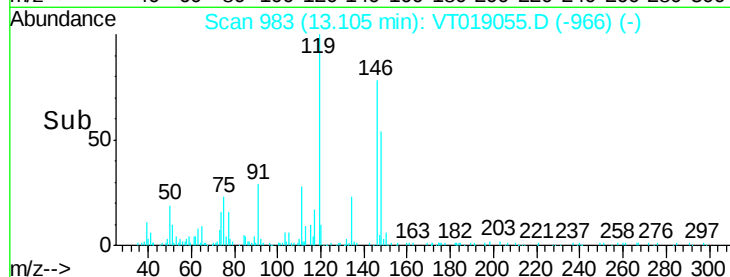
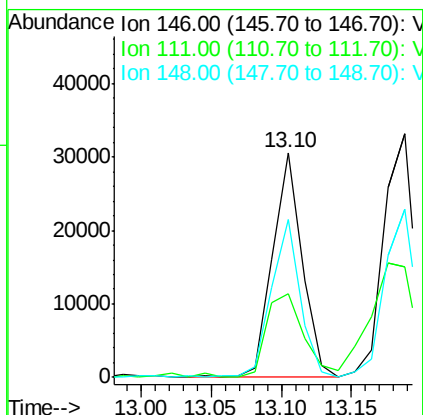
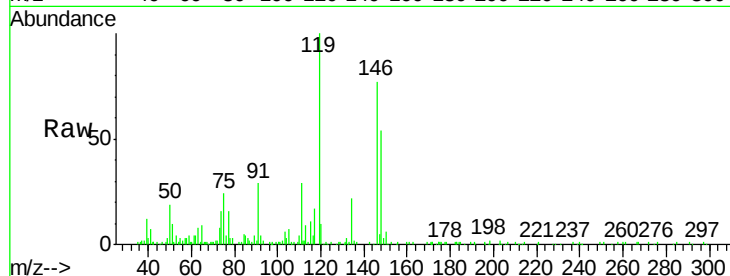




#86
 1,3-Dichlorobenzene
 Concen: 2.02 ug/l
 RT: 13.10 min Scan# 983
 Delta R.T. -0.00 min
 Lab File: VT019055.D
 Acq: 9 May 2018 13:52

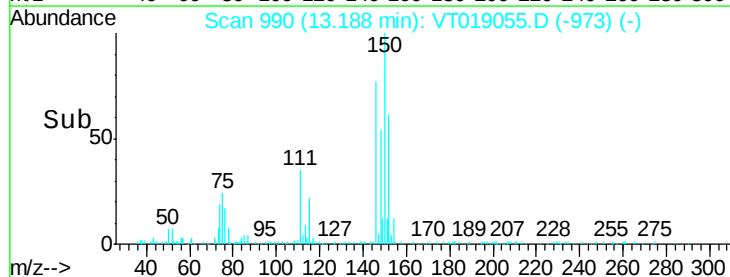
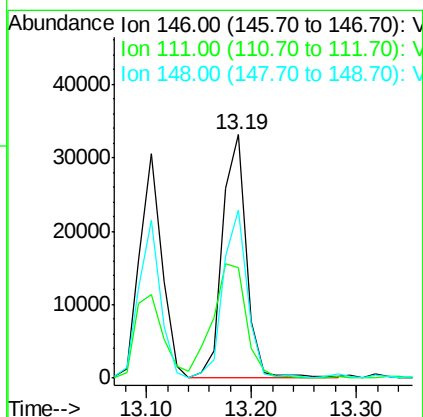
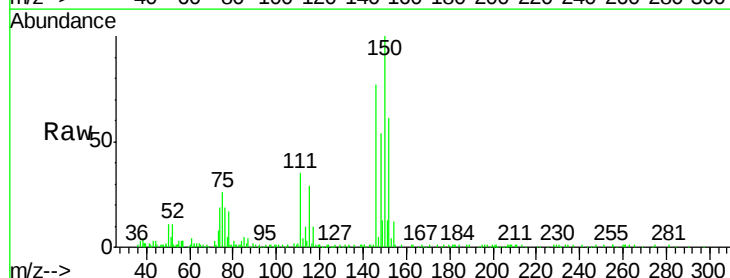
Instrument :
 MSVOA_T
 ClientSampleId :
 MDL-SOIL-03-QT2-2018DL

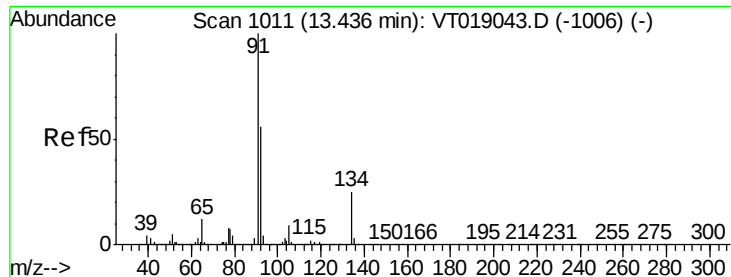
Tot Ion:146 Resp: 44832
 Ion Ratio Lower Upper
 146 100
 111 39.6 23.1 69.2
 148 70.2 32.5 97.5



#87
 1,4-Dichlorobenzene
 Concen: 2.43 ug/l
 RT: 13.19 min Scan# 990
 Delta R.T. -0.00 min
 Lab File: VT019055.D
 Acq: 9 May 2018 13:52

Tgt Ion:146 Resp: 52487
 Ion Ratio Lower Upper
 146 100
 111 45.5 20.3 60.8
 148 69.3 32.3 96.8

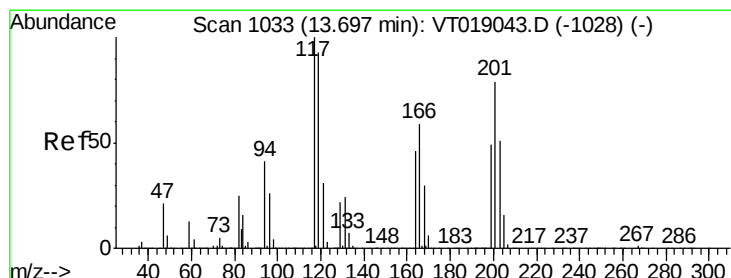
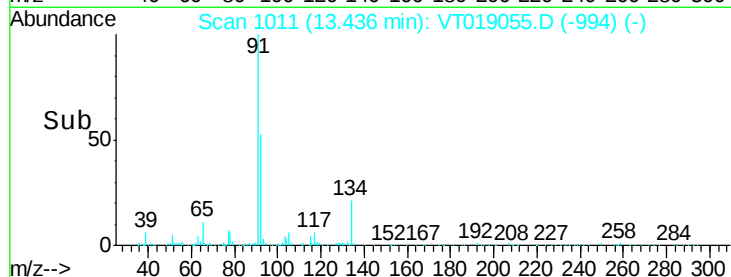
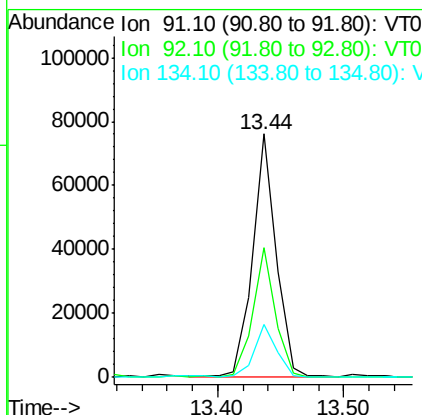
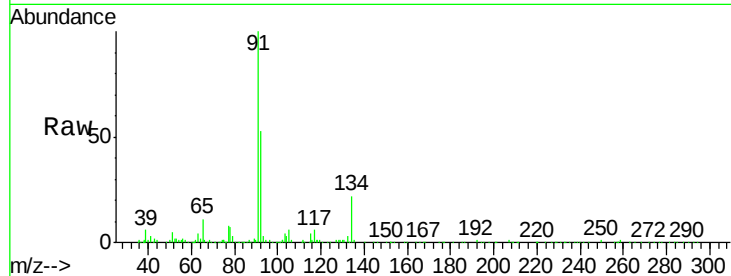




#88
n-Butylbenzene
Concen: 1.94 ug/l
RT: 13.44 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

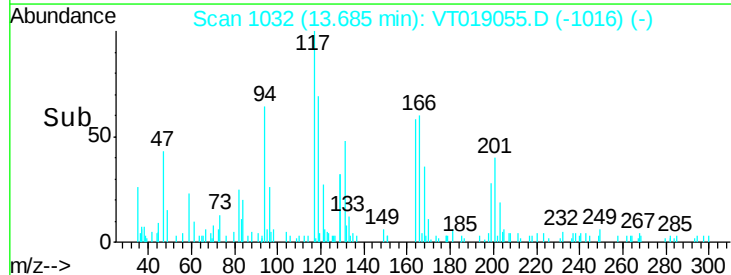
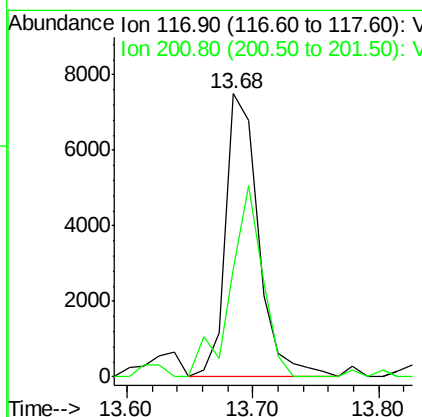
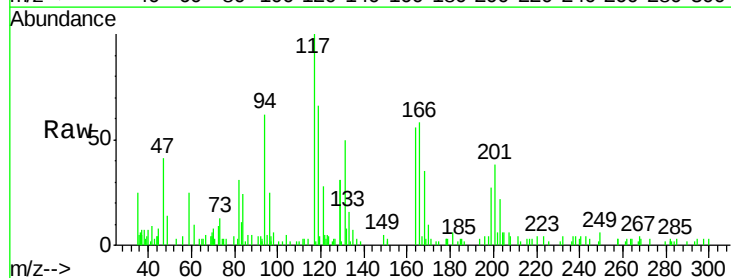
Instrument :
MSVOA_T
ClientSampleId :
MDL-SOIL-03-QT2-2018DL

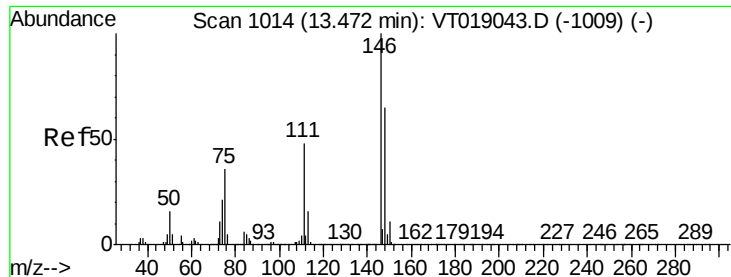
Tot Ion: 91 Resp: 98799
Ion Ratio Lower Upper
91 100
92 53.5 28.0 84.0
134 21.9 12.4 37.0



#89
Hexachloroethane
Concen: 1.64 ug/l
RT: 13.68 min Scan# 1032
Delta R.T. -0.01 min
Lab File: VT019055.D
Acq: 9 May 2018 13:52

Tgt Ion: 117 Resp: 13571
Ion Ratio Lower Upper
117 100
201 38.0 39.4 118.1#

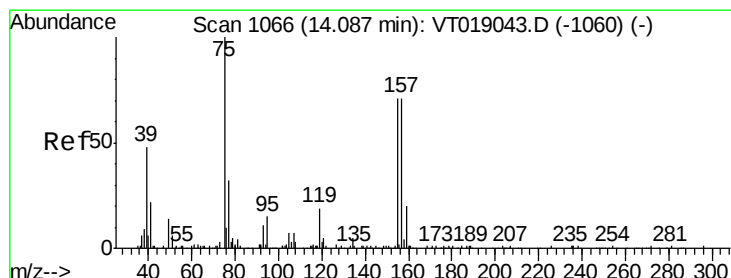
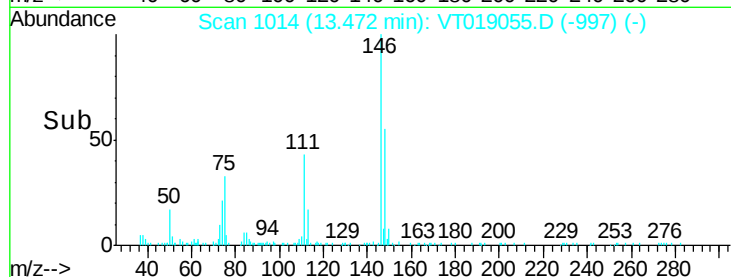
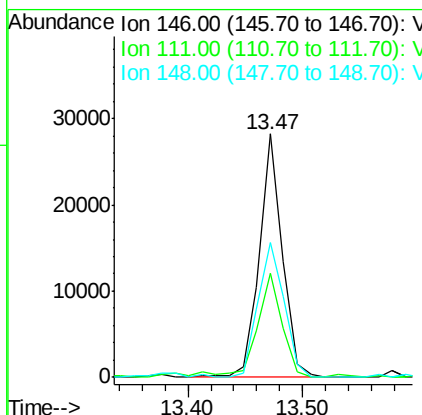
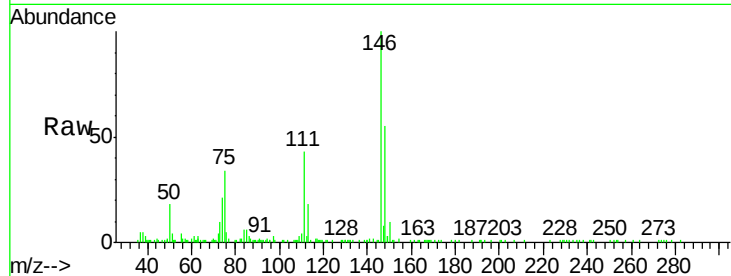




#90
 1,2-Dichlorobenzene
 Concen: 2.13 ug/l
 RT: 13.47 min Scan# 1014
 Delta R.T. -0.00 min
 Lab File: VT019055.D
 Acq: 9 May 2018 13:52

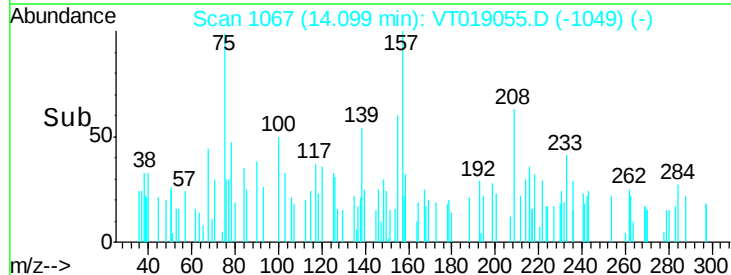
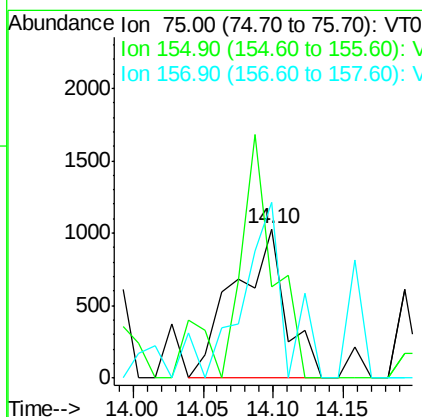
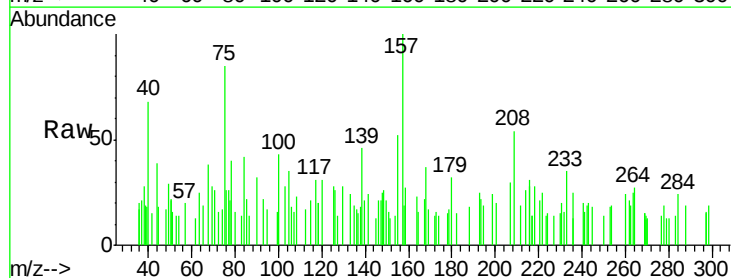
Instrument :
 MSVOA_T
 ClientSampleId :
 MDL-SOIL-03-QT2-2018DL

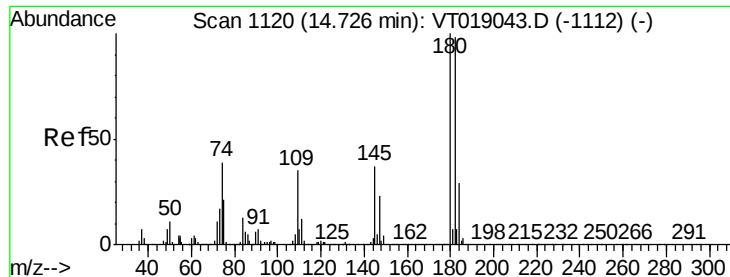
Tot Ion:146 Resp: 39482
 Ion Ratio Lower Upper
 146 100
 111 42.9 23.8 71.2
 148 55.3 32.7 98.1



#91
 1,2-Dibromo-3-Chloropropane
 Concen: 2.31 ug/l
 RT: 14.10 min Scan# 1067
 Delta R.T. 0.01 min
 Lab File: VT019055.D
 Acq: 9 May 2018 13:52

Tgt Ion: 75 Resp: 2606
 Ion Ratio Lower Upper
 75 100
 155 60.9 35.6 106.8
 157 118.0 35.8 107.3#

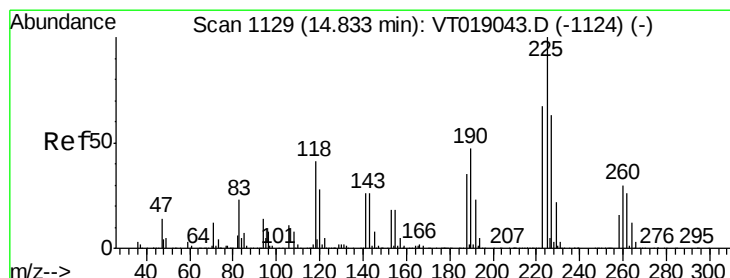
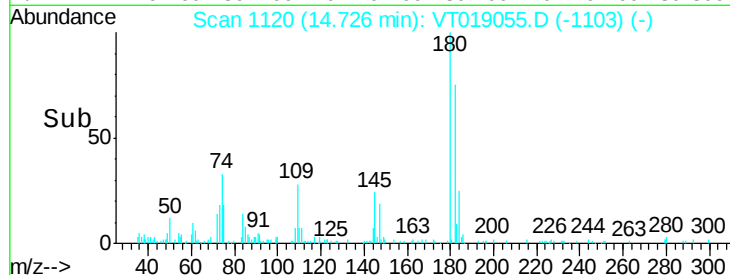
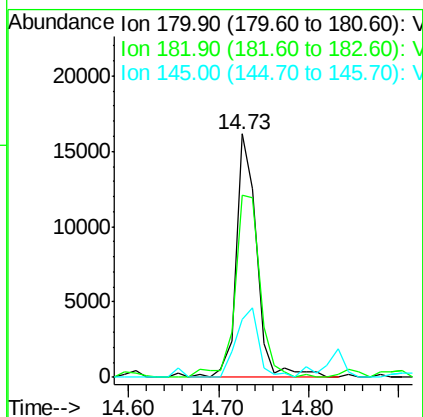
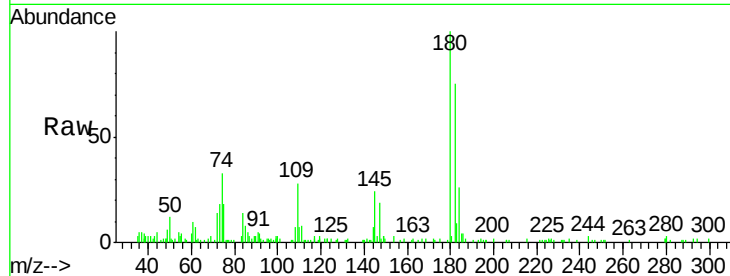




#92
 1,2,4-Trichlorobenzene
 Concen: 2.06 ug/l
 RT: 14.73 min Scan# 1120
 Delta R.T. -0.00 min
 Lab File: VT019055.D
 Acq: 9 May 2018 13:52

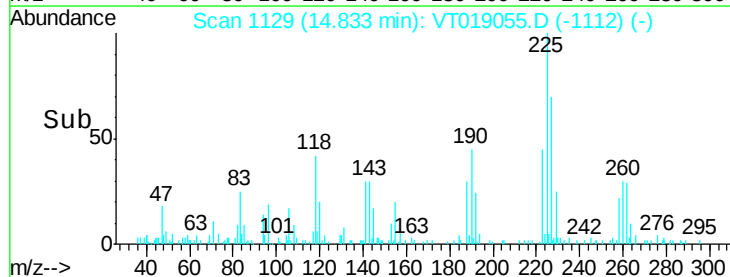
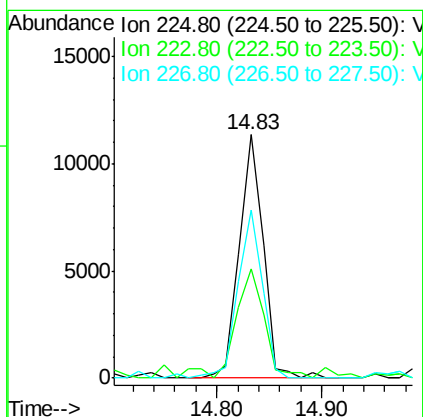
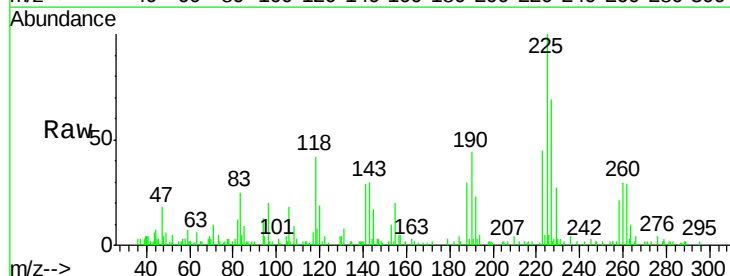
Instrument :
 MSVOA_T
 ClientSampleId :
 MDL-SOIL-03-QT2-2018DL

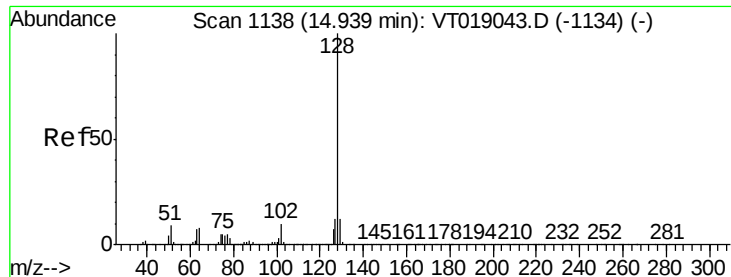
Tot Ion	Ratio	Lower	Upper
180	100		
182	74.9	49.0	147.0
145	23.9	18.3	54.9



#93
 Hexachlorobutadiene
 Concen: 1.96 ug/l
 RT: 14.83 min Scan# 1129
 Delta R.T. -0.00 min
 Lab File: VT019055.D
 Acq: 9 May 2018 13:52

Tgt Ion	Ratio	Lower	Upper
225	100		
223	44.7	33.5	100.4
227	71.3	31.7	95.1





#94

Naphthalene

Concen: 1.67 ug/l

RT: 14.94 min Scan# 1138

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

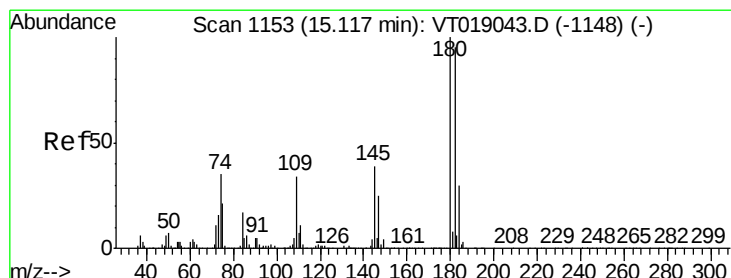
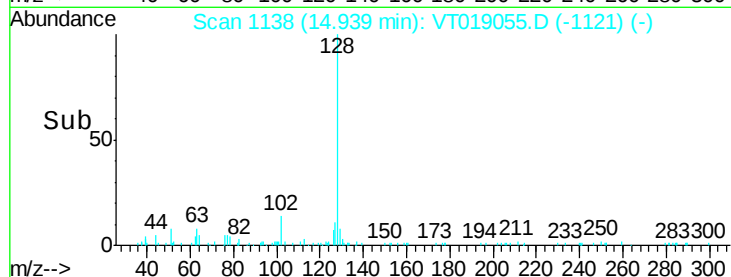
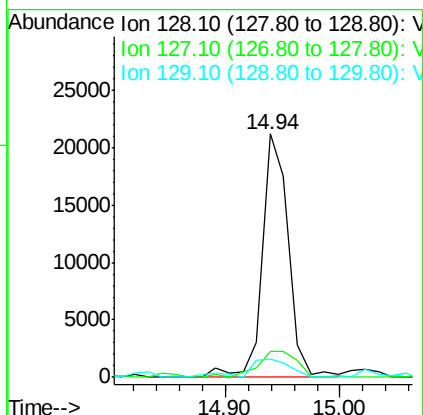
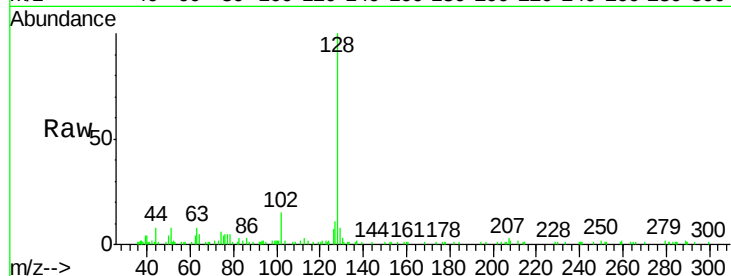
Instrument :

MSVOA_T

ClientSampleId :

MDL-SOIL-03-QT2-2018DL

Tot Ion:128	Resp:	33539
Ion Ratio	Lower	Upper
128	100	
127	10.7	9.9 14.9
129	7.6	9.3 13.9#



#95

1,2,3-Trichlorobenzene

Concen: 1.99 ug/l

RT: 15.12 min Scan# 1153

Delta R.T. -0.00 min

Lab File: VT019055.D

Acq: 9 May 2018 13:52

Tgt Ion:180	Resp:	20346
Ion Ratio	Lower	Upper
180	100	
182	71.1	47.7 143.1
145	47.7	19.4 58.1

