

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD031119\
 Data File : VD060999.D
 Acq On : 11 Mar 2019 12:40
 Operator : VA/AP
 Sample : K1560-03MDL2.5PPB
 Misc : 5.00g/5ml/MSVOA D/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Quant Time: Mar 12 05:41:32 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 02:35:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.06	168	799317	50.00	ug/l	0.02
34) 1,4-Difluorobenzene	8.24	114	1349893	50.00	ug/l	0.02
63) Chlorobenzene-d5	12.37	117	1114890	50.00	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	14.53	152	484102	50.00	ug/l	0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.47	65	306550	46.07	ug/l	0.02
Spiked Amount			Recovery	=	92.14%	
35) Dibromofluoromethane	6.94	113	491927	49.10	ug/l	0.01
Spiked Amount			Recovery	=	98.20%	
50) Toluene-d8	10.42	98	1154127	45.88	ug/l	0.02
Spiked Amount			Recovery	=	91.76%	
62) 4-Bromofluorobenzene	13.56	95	485382	49.72	ug/l	0.01
Spiked Amount			Recovery	=	99.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.59	85	16553	2.091	ug/l	98
3) Chloromethane	1.76	50	13924	2.111	ug/l	98
4) Vinyl Chloride	1.86	62	11378	1.867	ug/l	89
5) Bromomethane	2.17	94	5546	3.709	ug/l #	80
6) Chloroethane	2.29	64	3605	1.976	ug/l #	81
7) Trichlorofluoromethane	2.56	101	18505	2.114	ug/l	87
8) Diethyl Ether	2.88	74	5846	2.024	ug/l	79
9) 1,1,2-Trichlorotrifluoroet	3.18	101	20772	2.122	ug/l #	86
10) Methyl Iodide	3.33	142	18615	4.234	ug/l	94
11) Tert butyl alcohol	4.07	59	4173	9.852	ug/l #	75
12) 1,1-Dichloroethene	3.15	96	16924	2.109	ug/l	93
13) Acrolein	3.05	56	6030	9.839	ug/l	96
14) Allyl chloride	3.64	41	26006	2.026	ug/l	97
15) Acrylonitrile	4.21	53	16105	10.758	ug/l	92
16) Acetone	3.23	43	19001	9.987	ug/l	98
17) Carbon Disulfide	3.39	76	59037	2.181	ug/l	96
18) Methyl Acetate	3.66	43	8360	2.233	ug/l #	88
19) Methyl tert-butyl Ether	4.25	73	29888	2.126	ug/l	95
21) trans-1,2-Dichloroethene	4.24	96	18667	2.149	ug/l	95
22) Diisopropyl ether	5.14	45	54607	2.049	ug/l	97
23) Vinyl Acetate	5.08	43	140571	10.275	ug/l	100
24) 1,1-Dichloroethane	5.01	63	30197	2.068	ug/l #	93
25) 2-Butanone	6.08	43	23313	10.798	ug/l	94
26) 2,2-Dichloropropane	6.04	77	23769	2.085	ug/l	94
27) cis-1,2-Dichloroethene	6.05	96	20671	2.243	ug/l	91
28) Bromochloromethane	6.46	49	13009	2.105	ug/l	98
29) Tetrahydrofuran	6.47	42	10867	9.270	ug/l	97
30) Chloroform	6.68	83	29541	1.952	ug/l	95
31) Cyclohexane	6.97	56	24954	2.120	ug/l	95
32) 1,1,1-Trichloroethane	6.89	97	27150	2.075	ug/l	94
36) 1,1-Dichloropropene	7.16	75	26207	2.252	ug/l	99
37) Ethyl Acetate	6.20	43	10707	1.961	ug/l #	96
38) Carbon Tetrachloride	7.06	117	76243	5.948	ug/l #	15
39) Methylcyclohexane	8.88	83	27416	2.272	ug/l	96

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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) Benzene	7.47	78	60872	2.094	ug/l	94
41) Methacrylonitrile	6.46	41	11625	1.851	ug/l #	90
42) 1,2-Dichloroethane	7.60	62	16573	1.964	ug/l	94
43) Isopropyl Acetate	9.25	43	12729	1.683	ug/l #	96
44) Trichloroethene	8.55	130	21622	2.156	ug/l	94
45) 1,2-Dichloropropane	8.95	63	14809	1.939	ug/l	92
46) Dibromomethane	9.07	93	9865	2.036	ug/l	94
47) Bromodichloromethane	9.39	83	21178	1.937	ug/l	99
48) Methyl methacrylate	9.13	41	8199	1.926	ug/l	90
49) 1,4-Dioxane	9.08	88	550	12.774	ug/l #	29
51) 4-Methyl-2-Pentanone	10.31	43	47327	10.215	ug/l	96
52) Toluene	10.52	92	38460	2.127	ug/l	96
53) t-1,3-Dichloropropene	10.92	75	19357	1.936	ug/l	98
54) cis-1,3-Dichloropropene	10.06	75	24015	1.999	ug/l	96
55) 1,1,2-Trichloroethane	11.20	97	12647	2.100	ug/l	97
56) Ethyl methacrylate	11.05	69	12002	1.904	ug/l	97
57) 1,3-Dichloropropane	11.42	76	18067	2.008	ug/l	94
58) 2-Chloroethyl Vinyl ether	9.87	63	37920	11.367	ug/l	100
59) 2-Hexanone	11.54	43	34923	10.304	ug/l	95
60) Dibromochloromethane	11.69	129	16814	1.897	ug/l	100
61) 1,2-Dibromoethane	11.82	107	14328	2.046	ug/l	96
64) Tetrachloroethene	11.27	164	16956	2.253	ug/l	96
65) Chlorobenzene	12.41	112	51309	2.348	ug/l	98
66) 1,1,1,2-Tetrachloroethane	12.52	131	18197	2.336	ug/l	95
67) Ethyl Benzene	12.53	91	80037	2.460	ug/l	95
68) m/p-Xylenes	12.68	106	61391	4.807	ug/l	98
69) o-Xylene	13.06	106	28954	2.306	ug/l	97
70) Stvrene	13.08	104	46956	2.291	ug/l	97
71) Bromoform	13.24	173	8723	1.736	ug/l	96
73) Isopropylbenzene	13.40	105	79524	2.279	ug/l	96
74) N-amyl acetate	13.28	43	18922	1.926	ug/l	95
75) 1,1,2,2-Tetrachloroethane	13.71	83	14444	2.122	ug/l	87
76) 1,2,3-Trichloropropane	13.74	75	15756	2.262	ug/l	99
77) Bromobenzene	13.68	156	19279	2.165	ug/l	98
78) n-propylbenzene	13.78	91	97499	2.387	ug/l	97
79) 2-Chlorotoluene	13.85	91	49711	2.211	ug/l	91
80) 1,3,5-Trimethylbenzene	14.24	105	62924	2.376	ug/l	96
81) trans-1,4-Dichloro-2-buten	13.56	75	176937	86.171	ug/l #	17
82) 4-Chlorotoluene	13.96	91	58019	2.183	ug/l	94
83) tert-Butylbenzene	14.19	119	75122	2.592	ug/l	95
84) 1,2,4-Trimethylbenzene	14.24	105	62924	2.376	ug/l	96
85) sec-Butylbenzene	14.37	105	79473	2.246	ug/l	92
86) p-Isopropyltoluene	14.50	119	68317	2.362	ug/l	97
87) 1,3-Dichlorobenzene	14.46	146	37877	2.382	ug/l	96
88) 1,4-Dichlorobenzene	14.55	146	37455	2.397	ug/l	98
89) n-Butylbenzene	14.80	91	58193	2.095	ug/l	97
90) Hexachloroethane	15.01	117	15707	1.923	ug/l	74
91) 1,2-Dichlorobenzene	14.81	146	28969	2.185	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	15.38	75	1389	1.693	ug/l	65
93) 1,2,4-Trichlorobenzene	15.95	180	13922	2.264	ug/l	98

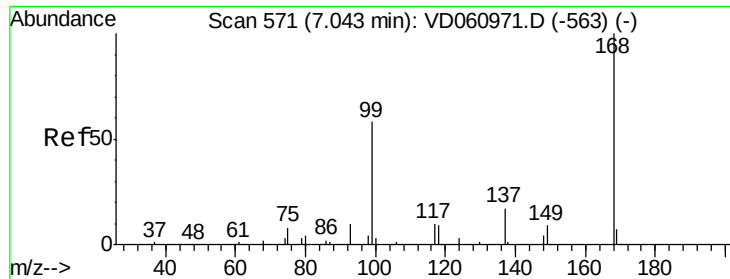
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD031119\
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Quant Title : SW846 8260
QLast Update : Fri Mar 08 02:35:39 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	16.04	225	10224	2.198	ug/l	94
95) Naphthalene	16.13	128	23179	2.480	ug/l	96
96) 1,2,3-Trichlorobenzene	16.28	180	6570	2.163	ug/l	91

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.06 min Scan# 573

Delta R.T. 0.02 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

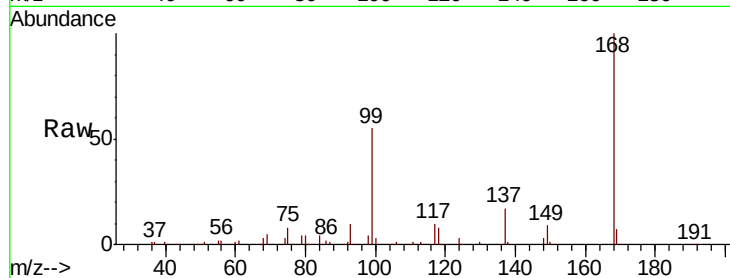
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:168 Resp: 799317

Ion Ratio Lower Upper

168 100

99 55.3 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.06

250000

200000

150000

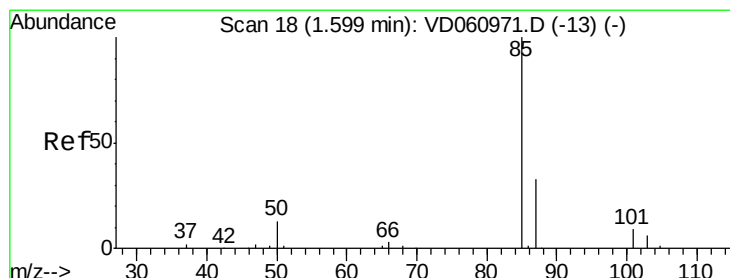
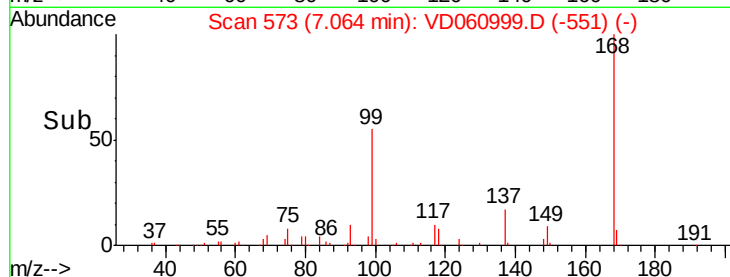
100000

50000

0

Time-->

6.90 7.00 7.10 7.20



#2

Dichlorodifluoromethane

Concen: 2.091 ug/l

RT: 1.59 min Scan# 17

Delta R.T. -0.01 min

Lab File: VD060999.D

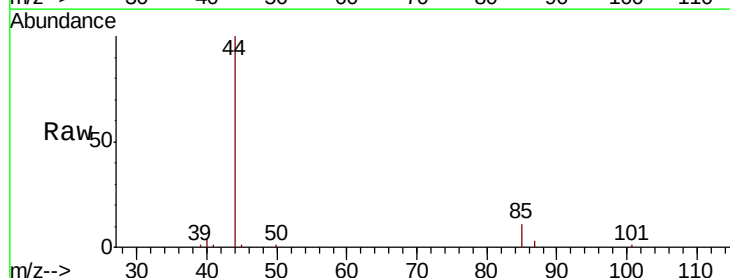
Acq: 11 Mar 2019 12:40

Tgt Ion: 85 Resp: 16553

Ion Ratio Lower Upper

85 100

87 32.0 16.4 49.4



Abundance Ion 84.95 (84.65 to 85.65): V

Ion 86.90 (86.60 to 87.60): V

1.59

6000

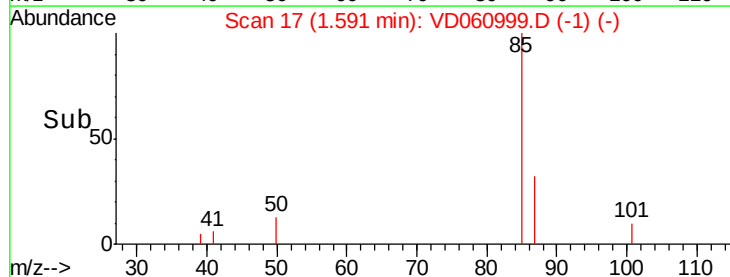
4000

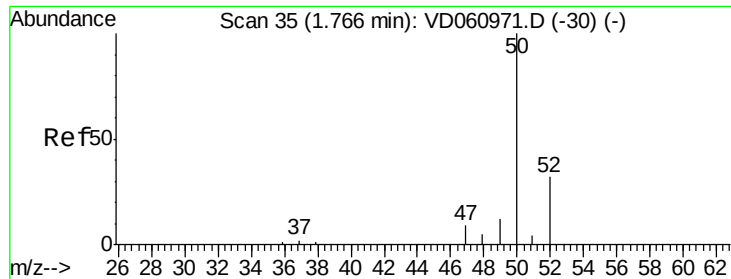
2000

0

Time-->

1.50 1.60 1.70

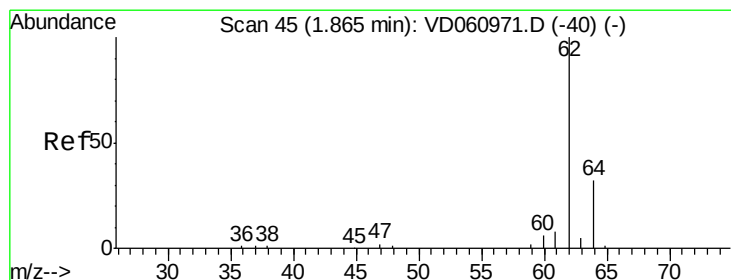
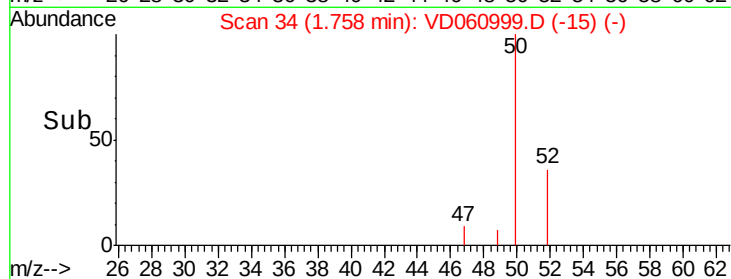
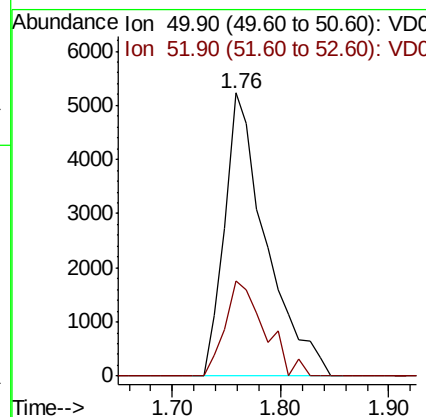
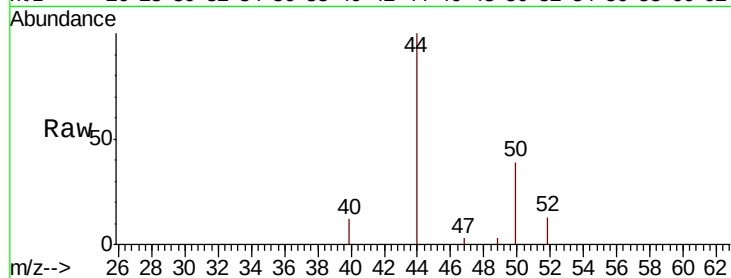




#3
Chloromethane
Concen: 2.111 ug/l
RT: 1.76 min Scan# 34
Delta R.T. -0.01 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

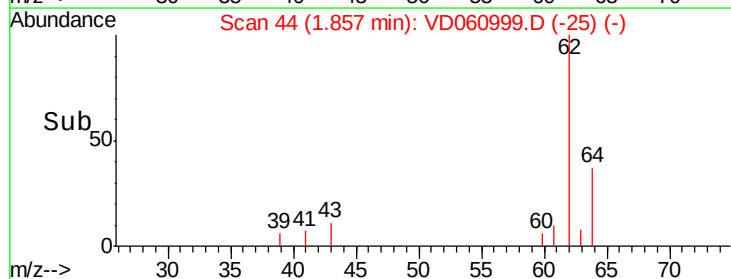
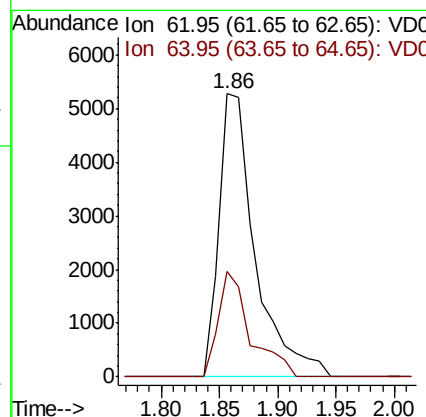
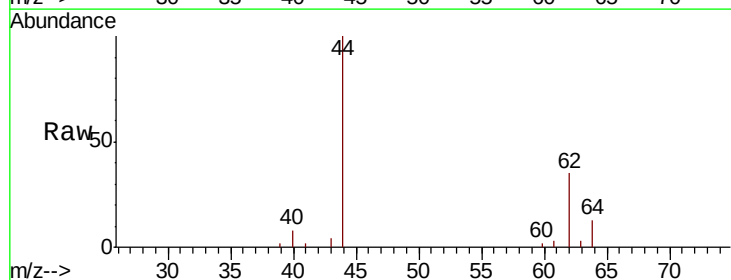
Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

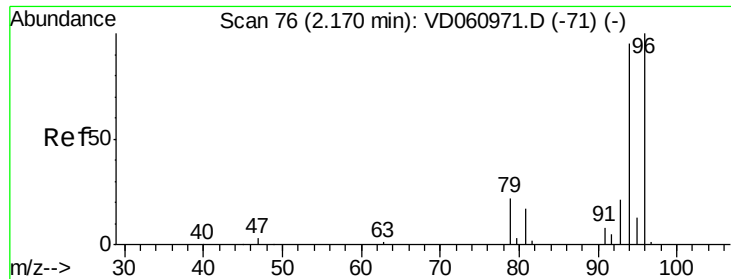
Tot Ion: 50 Resp: 13924
Ion Ratio Lower Upper
50 100
52 33.7 25.8 38.8



#4
Vinyl Chloride
Concen: 1.867 ug/l
RT: 1.86 min Scan# 44
Delta R.T. -0.01 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Tgt Ion: 62 Resp: 11378
Ion Ratio Lower Upper
62 100
64 37.4 25.2 37.8





#5

Bromomethane

Concen: 3.709 ug/l

RT: 2.17 min Scan# 76

Delta R.T. 0.00 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

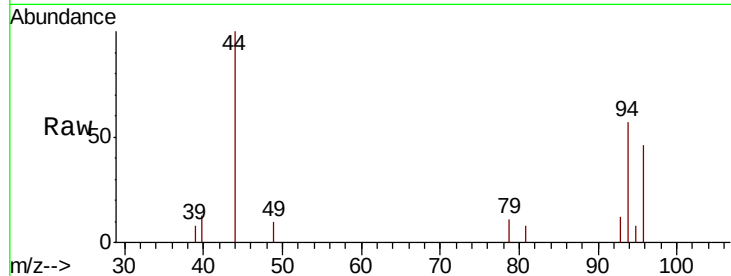
Tot Ion: 94 Resp: 5546

Ion Ratio Lower Upper

94 100

96 81.0 84.0 126.0#

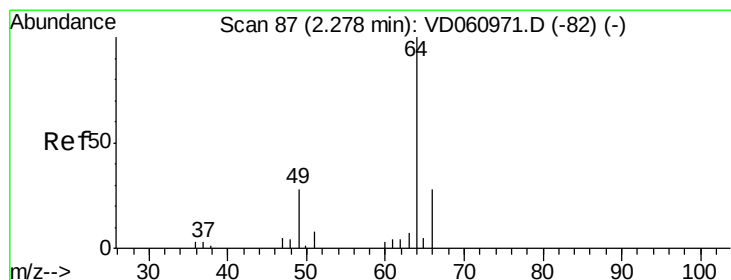
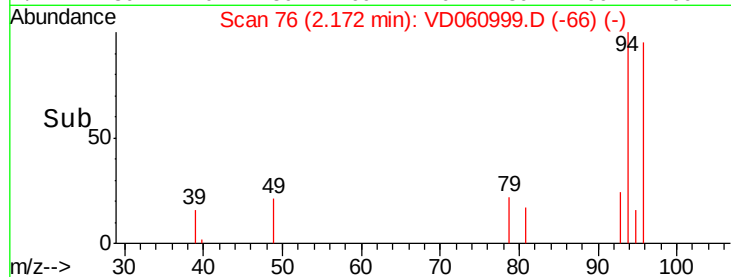
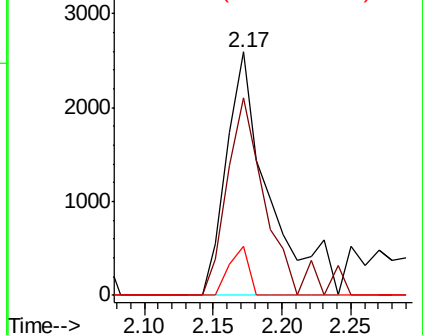
93 20.3 17.3 25.9



Abundance Ion 94.00 (93.70 to 94.70): VDC

Ion 96.00 (95.70 to 96.70): VDC

Ion 93.00 (92.70 to 93.70): VDC



#6

Chloroethane

Concen: 1.976 ug/l

RT: 2.29 min Scan# 88

Delta R.T. 0.01 min

Lab File: VD060999.D

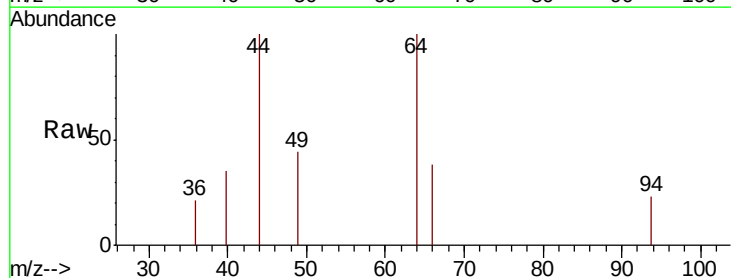
Acq: 11 Mar 2019 12:40

Tgt Ion: 64 Resp: 3605

Ion Ratio Lower Upper

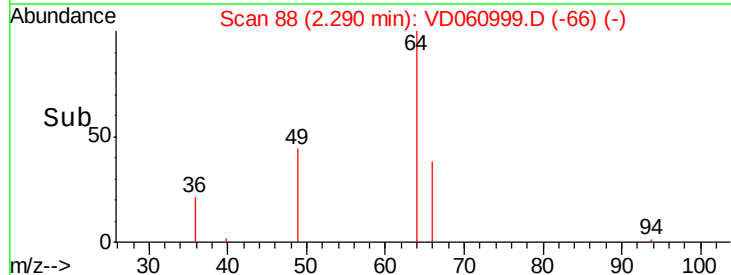
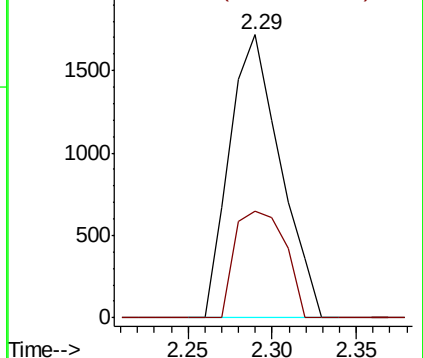
64 100

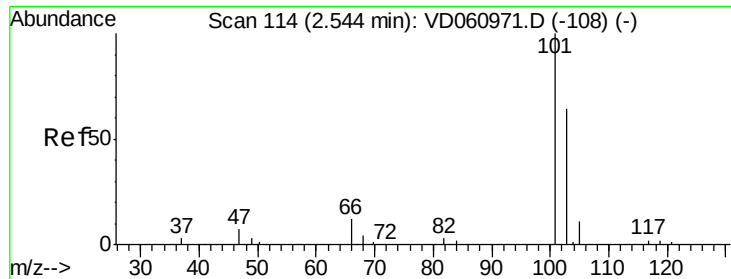
66 37.6 22.2 33.2#



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



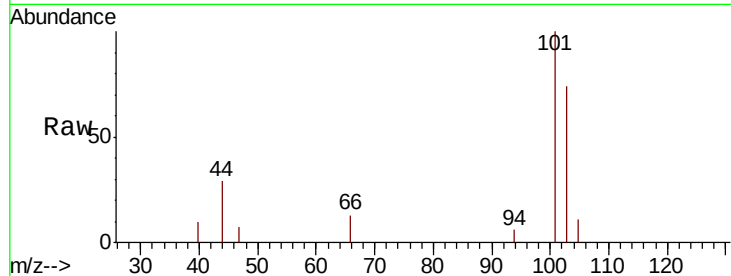


#7

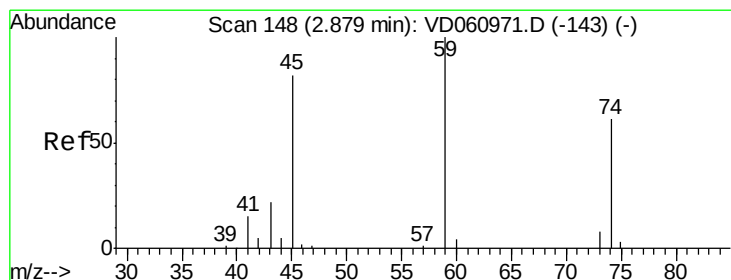
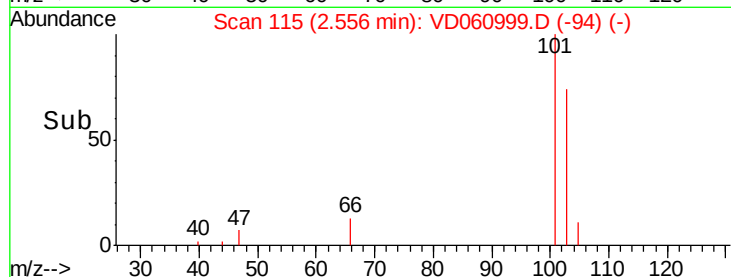
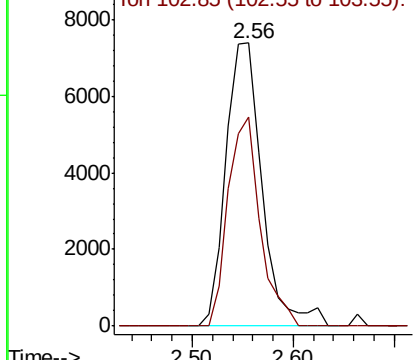
Trichlorofluoromethane
Concen: 2.114 ug/l
RT: 2.56 min Scan# 115
Delta R.T. 0.01 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

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Tot Ion:101 Resp: 18505
Ion Ratio Lower Upper
101 100
103 74.0 51.2 76.8



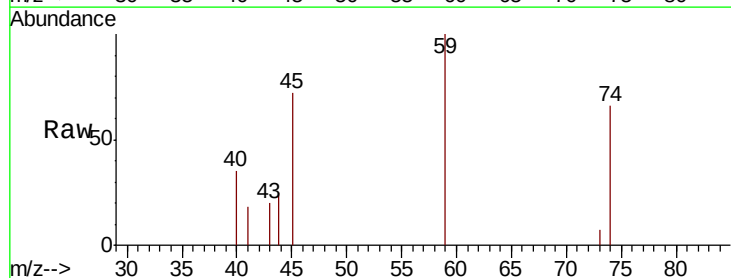
Abundance Ion 100.85 (100.55 to 101.55): V
Ion 102.85 (102.55 to 103.55): V



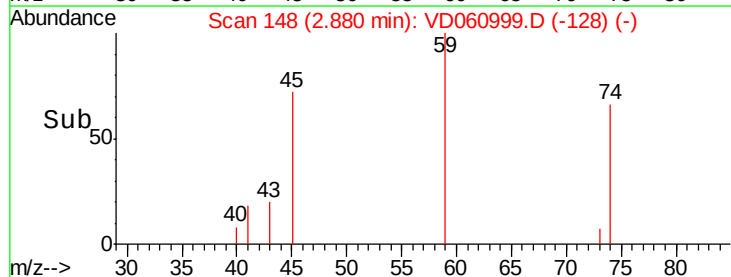
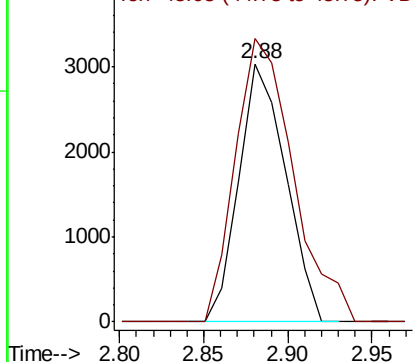
#8

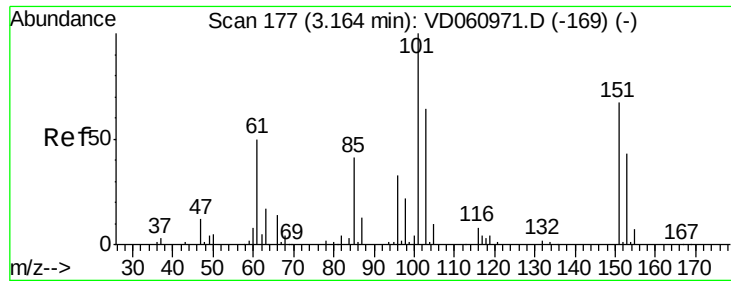
Diethyl Ether
Concen: 2.024 ug/l
RT: 2.88 min Scan# 148
Delta R.T. 0.00 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Tgt Ion: 74 Resp: 5846
Ion Ratio Lower Upper
74 100
45 109.6 67.0 201.1



Abundance Ion 74.00 (73.70 to 74.70): V
Ion 45.05 (44.75 to 45.75): V





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.122 ug/l

RT: 3.18 min Scan# 178

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

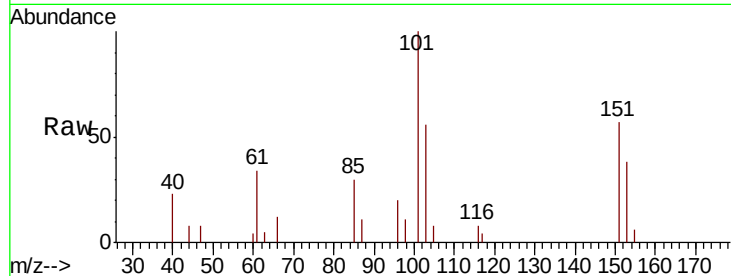
Tot Ion:101 Resp: 20772

Ion Ratio Lower Upper

101 100

85 30.4 32.5 48.7#

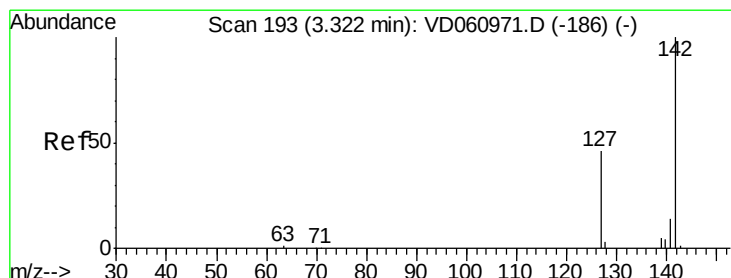
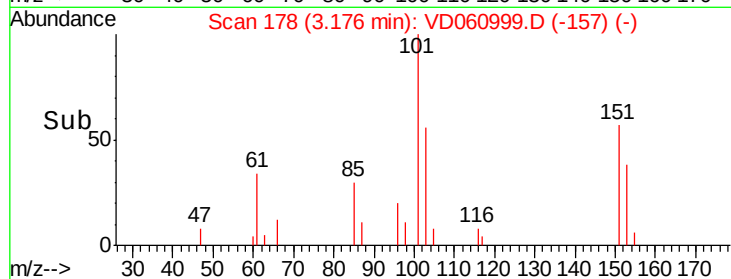
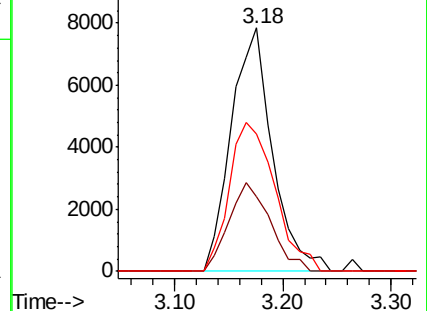
151 56.5 53.3 79.9



Abundance Ion 100.85 (100.55 to 101.55): V

Ion 84.95 (84.65 to 85.65): V

Ion 150.90 (150.60 to 151.60): V



#10

Methyl Iodide

Concen: 4.234 ug/l

RT: 3.33 min Scan# 194

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

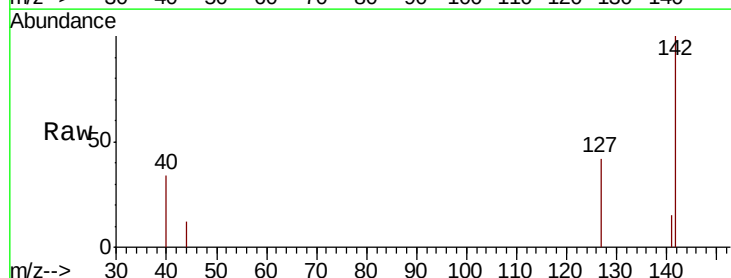
Tgt Ion:142 Resp: 18615

Ion Ratio Lower Upper

142 100

127 41.8 36.8 55.2

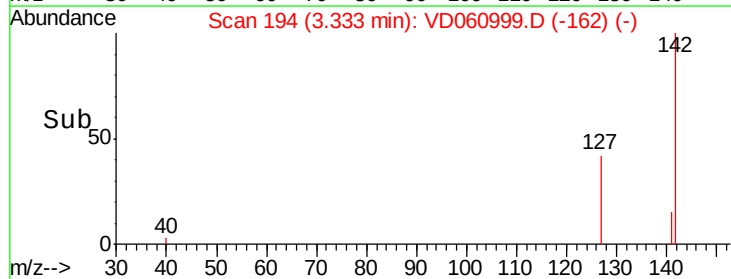
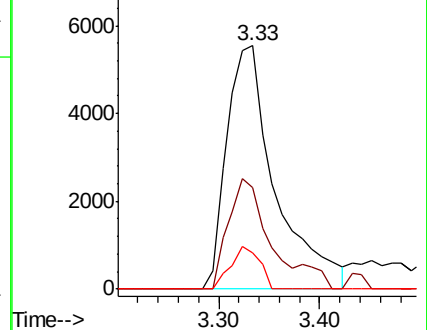
141 15.1 11.2 16.8

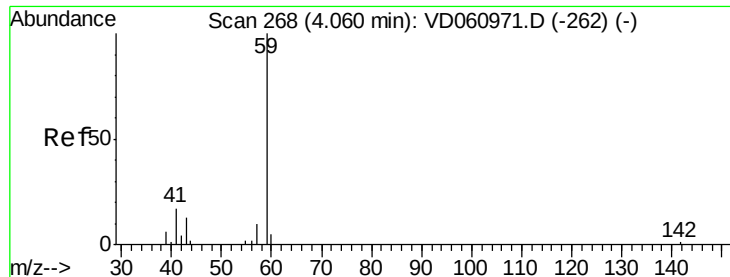


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

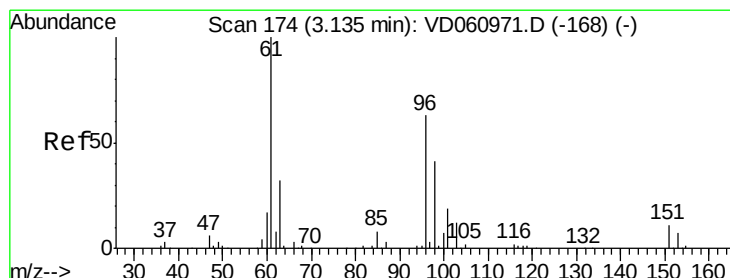
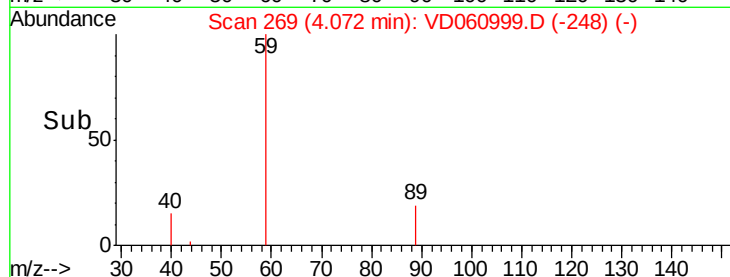
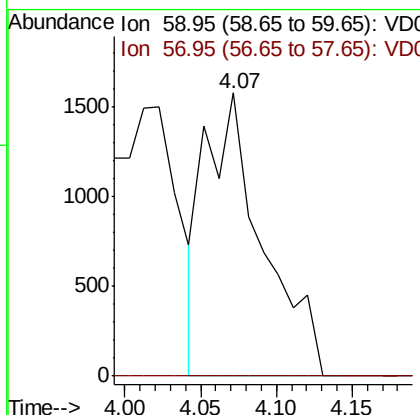
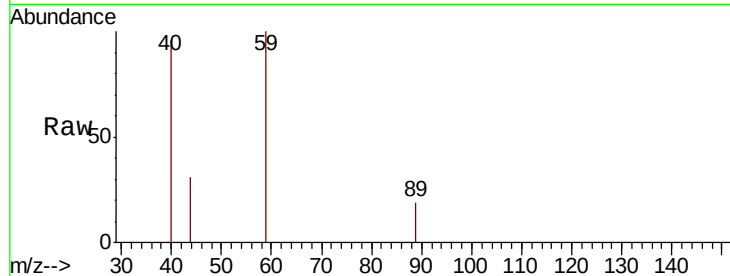




#11
Tert butyl alcohol
Concen: 9.852 ug/l
RT: 4.07 min Scan# 269
Delta R.T. 0.01 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

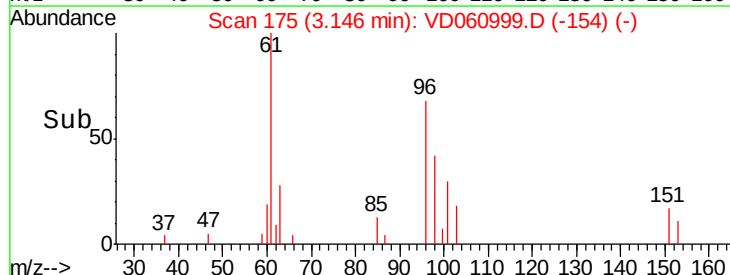
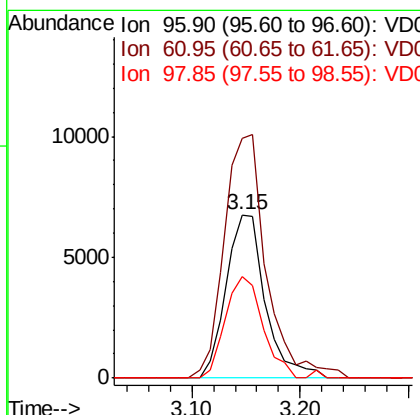
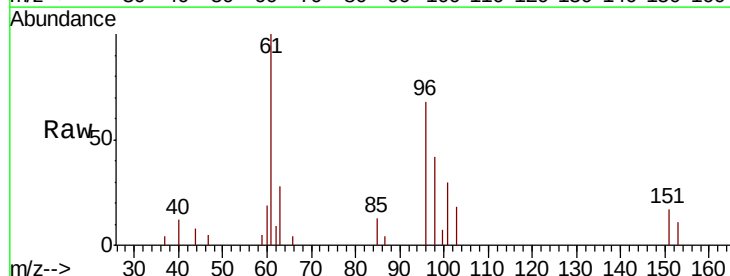
Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

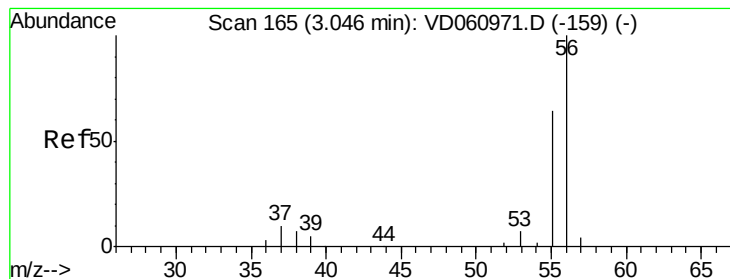
Tot Ion: 59 Resp: 4173
Ion Ratio Lower Upper
59 100
57 0.0 7.1 10.7#



#12
1,1-Dichloroethene
Concen: 2.109 ug/l
RT: 3.15 min Scan# 175
Delta R.T. 0.01 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Tgt Ion: 96 Resp: 16924
Ion Ratio Lower Upper
96 100
61 147.1 127.1 190.7
98 62.0 51.5 77.3





#13

Acrolein

Concen: 9.839 ug/l

RT: 3.05 min Scan# 165

Delta R.T. 0.00 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

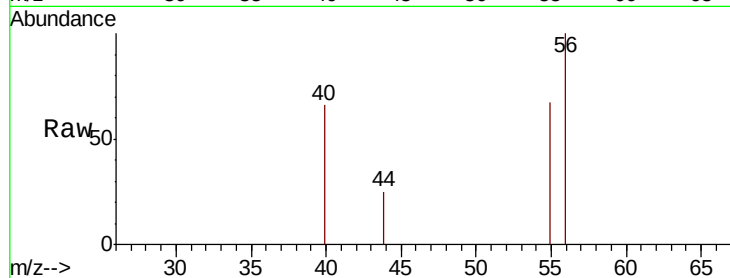
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 56 Resp: 6030

Ion Ratio Lower Upper

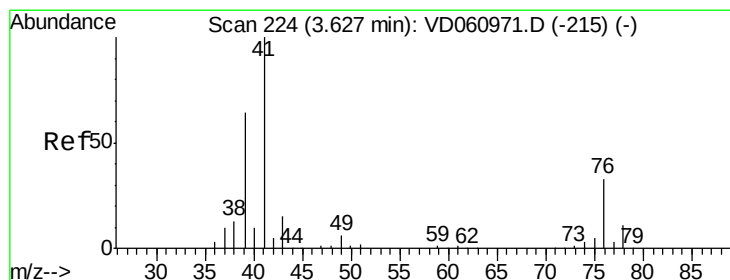
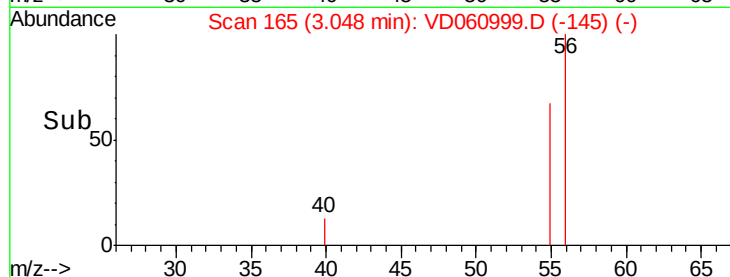
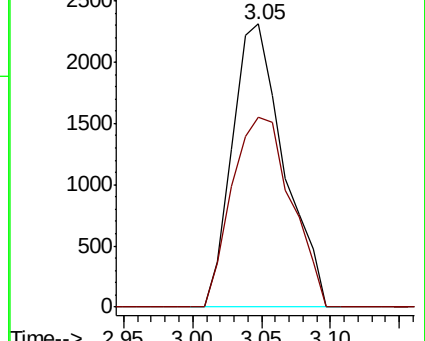
56 100

55 67.2 51.3 76.9



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC



#14

Allyl chloride

Concen: 2.026 ug/l

RT: 3.64 min Scan# 225

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

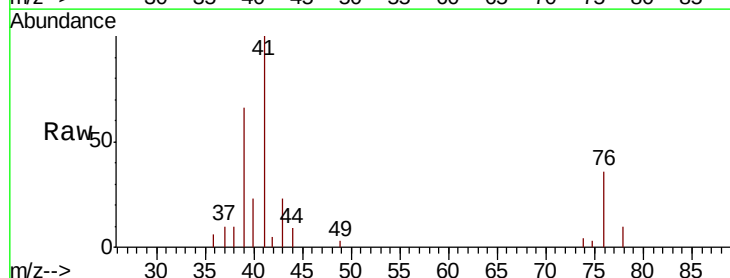
Tgt Ion: 41 Resp: 26006

Ion Ratio Lower Upper

41 100

39 66.5 51.1 76.7

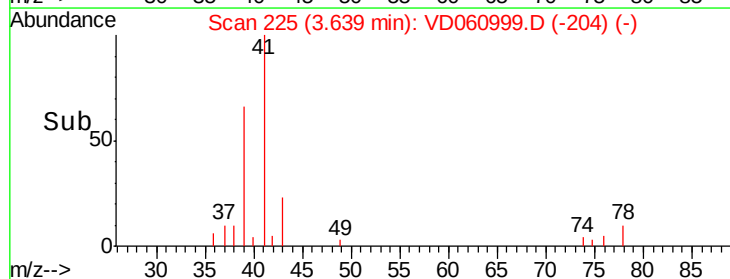
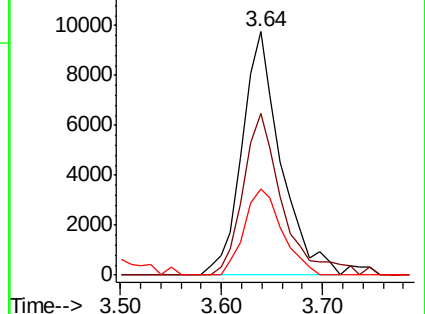
76 35.5 29.1 43.7

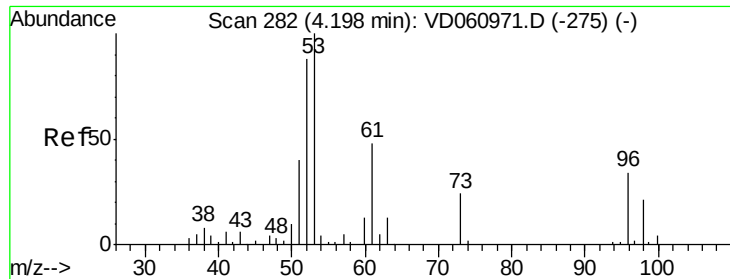


Abundance Ion 41.05 (40.75 to 41.75): VDC

Ion 38.95 (38.65 to 39.65): VDC

Ion 75.95 (75.65 to 76.65): VDC





#15

Acrylonitrile

Concen: 10.758 ug/l

RT: 4.21 min Scan# 283

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

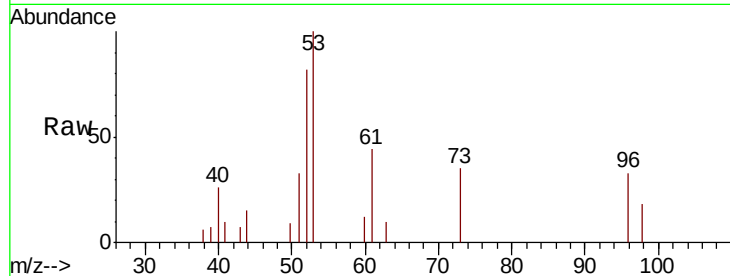
Tot Ion: 53 Resp: 16105

Ion Ratio Lower Upper

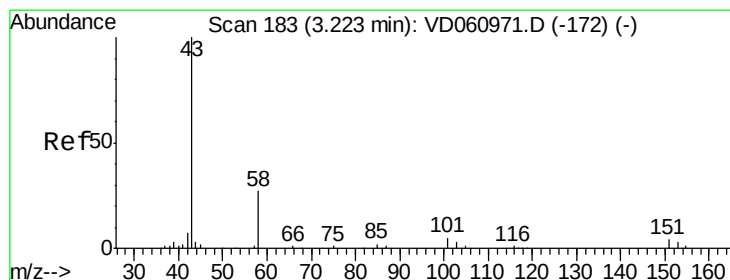
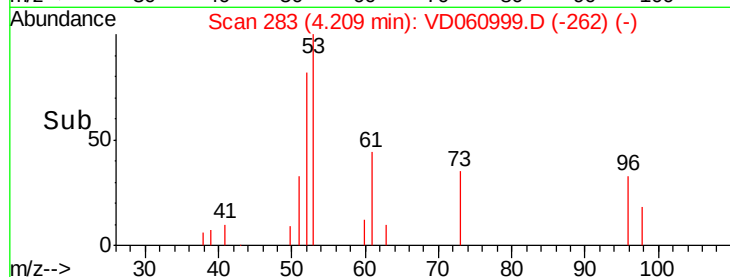
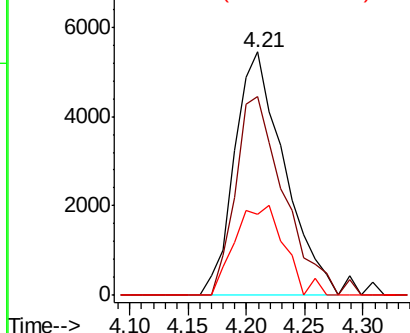
53 100

52 81.8 70.2 105.4

51 33.2 31.7 47.5



Abundance Ion 53.00 (52.70 to 53.70): VDC
Ion 52.00 (51.70 to 52.70): VDC
Ion 51.00 (50.70 to 51.70): VDC



#16

Acetone

Concen: 9.987 ug/l

RT: 3.23 min Scan# 184

Delta R.T. 0.01 min

Lab File: VD060999.D

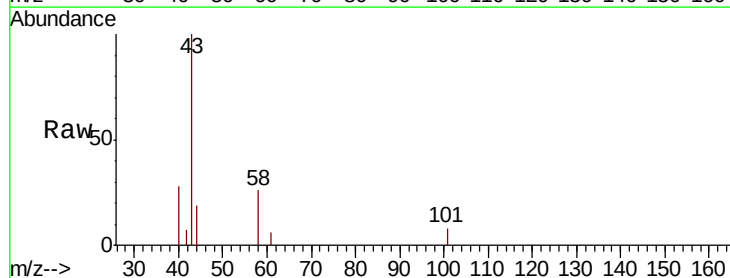
Acq: 11 Mar 2019 12:40

Tgt Ion: 43 Resp: 19001

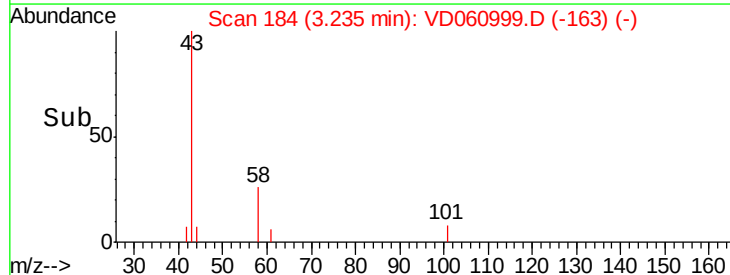
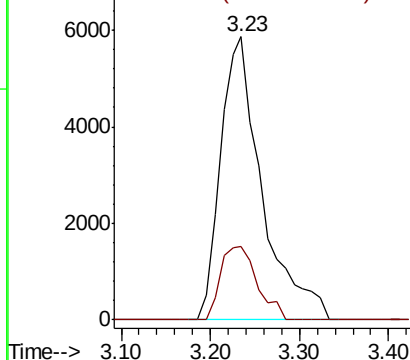
Ion Ratio Lower Upper

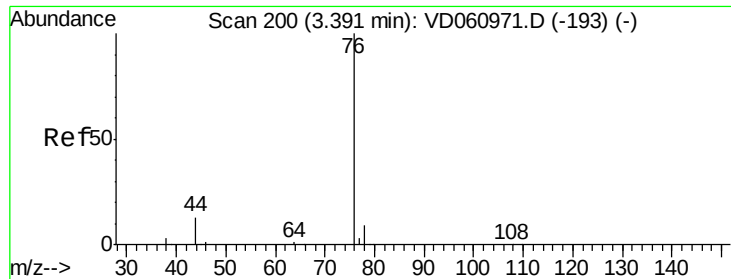
43 100

58 25.9 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC





#17

Carbon Disulfide

Concen: 2.181 ug/l

RT: 3.39 min Scan# 200

Delta R.T. 0.00 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

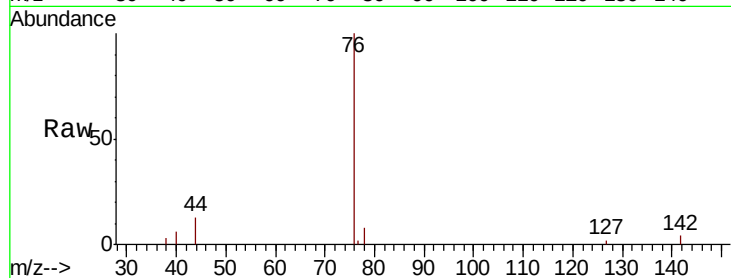
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 76 Resp: 59037

Ion Ratio Lower Upper

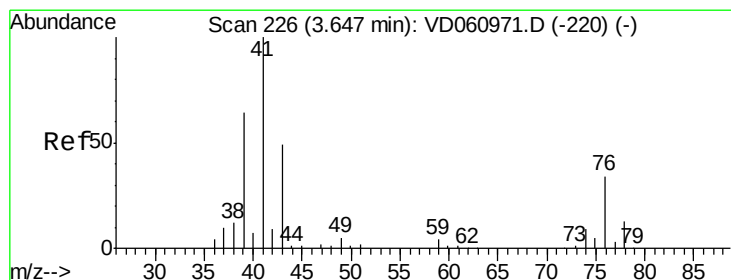
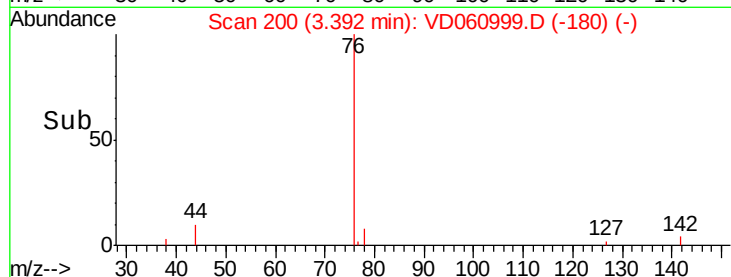
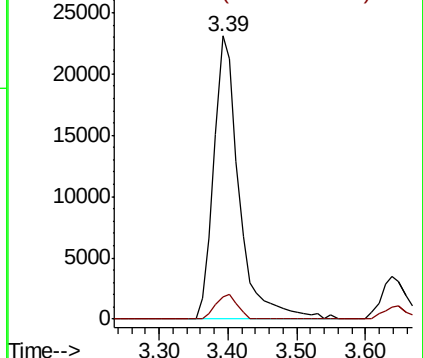
76 100

78 7.9 7.4 11.2



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 2.233 ug/l

RT: 3.66 min Scan# 227

Delta R.T. 0.01 min

Lab File: VD060999.D

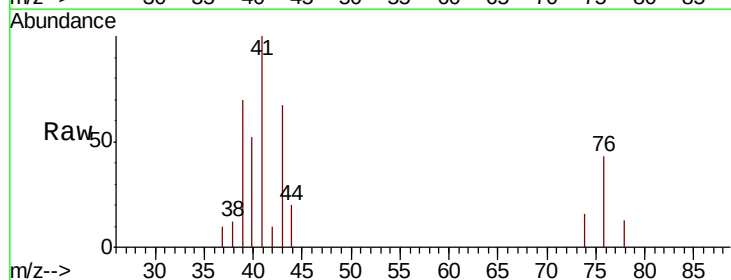
Acq: 11 Mar 2019 12:40

Tgt Ion: 43 Resp: 8360

Ion Ratio Lower Upper

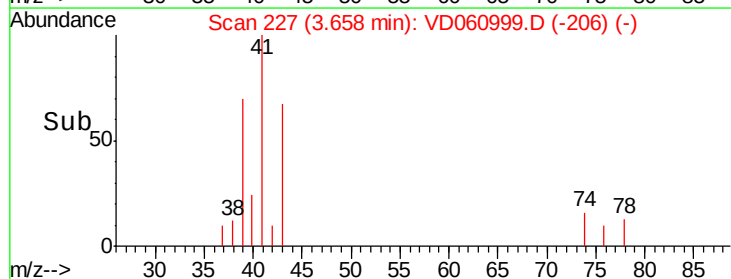
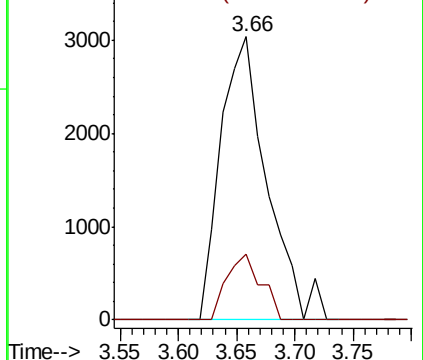
43 100

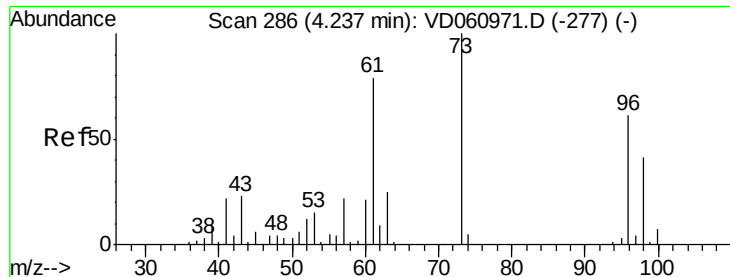
74 23.3 14.6 21.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

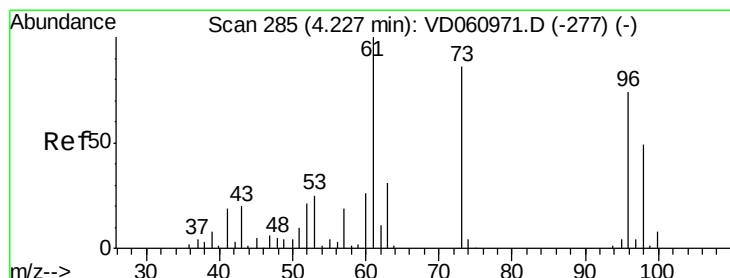
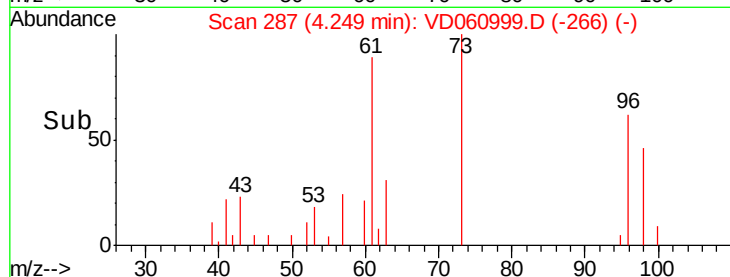
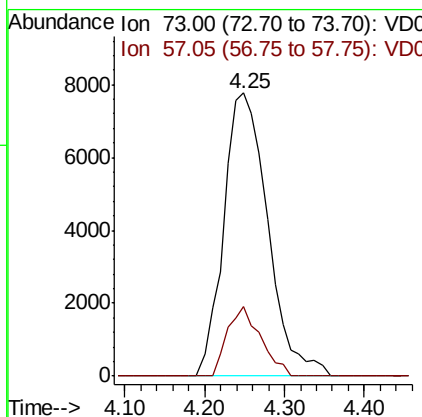
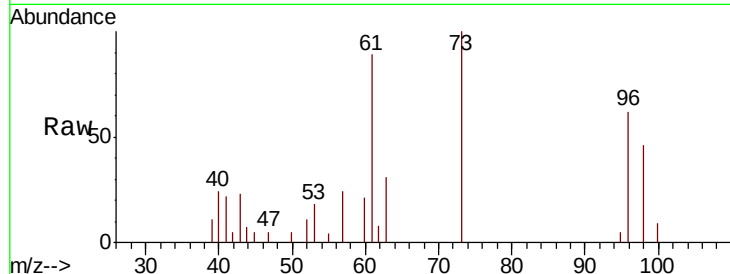




#19
Methyl tert-butyl Ether
Concen: 2.126 ug/l
RT: 4.25 min Scan# 287
Delta R.T. 0.01 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

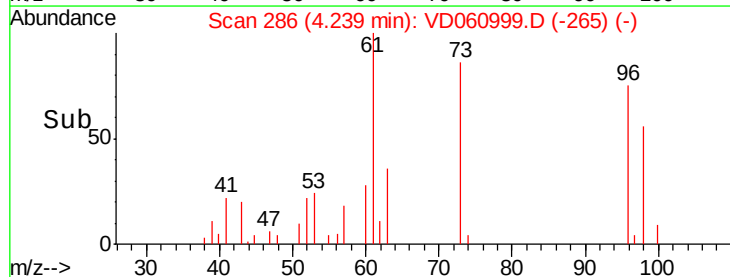
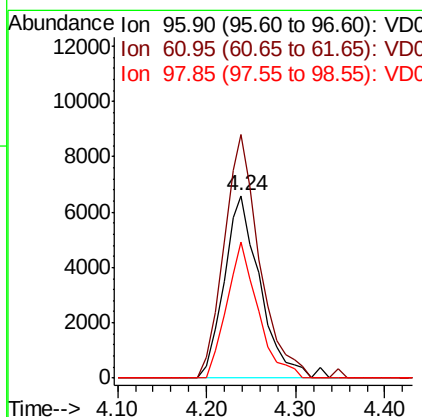
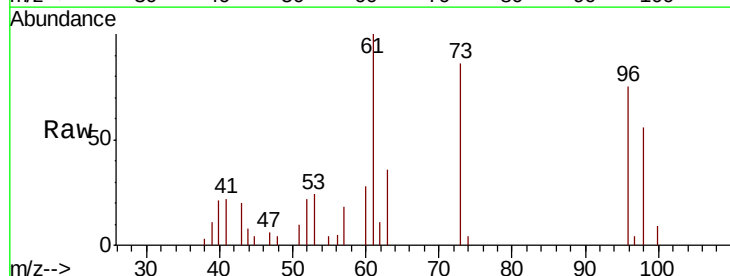
Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

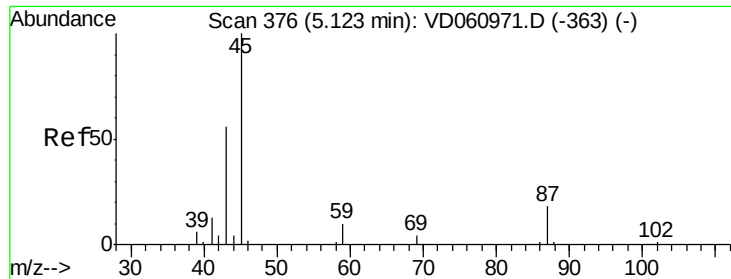
Tot Ion: 73 Resp: 29888
Ion Ratio Lower Upper
73 100
57 24.5 17.7 26.5



#21
trans-1,2-Dichloroethene
Concen: 2.149 ug/l
RT: 4.24 min Scan# 286
Delta R.T. 0.01 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Tgt Ion: 96 Resp: 18667
Ion Ratio Lower Upper
96 100
61 133.5 108.4 162.6
98 74.9 53.0 79.4

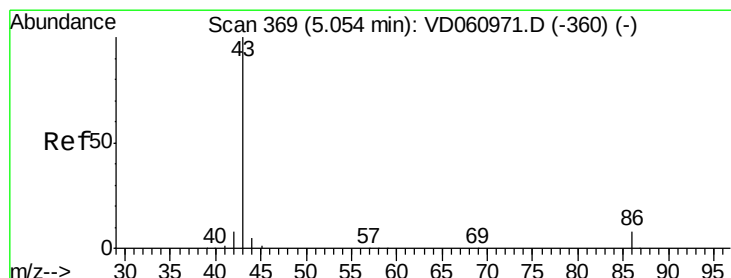
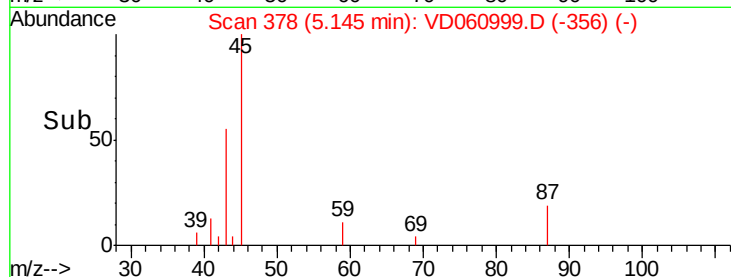
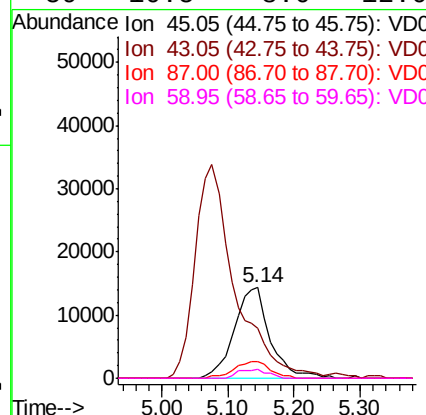
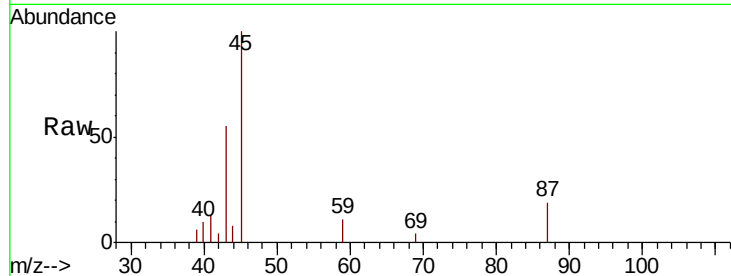




#22
Diisopropyl ether
Concen: 2.049 ug/l
RT: 5.14 min Scan# 378
Delta R.T. 0.02 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

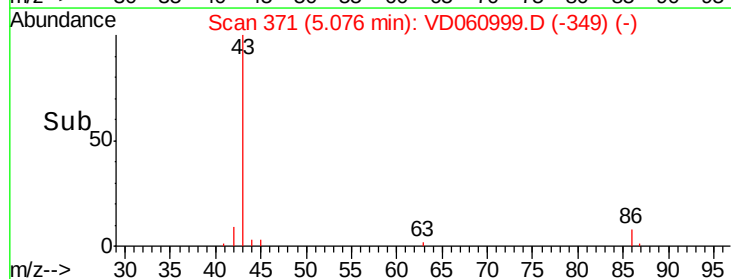
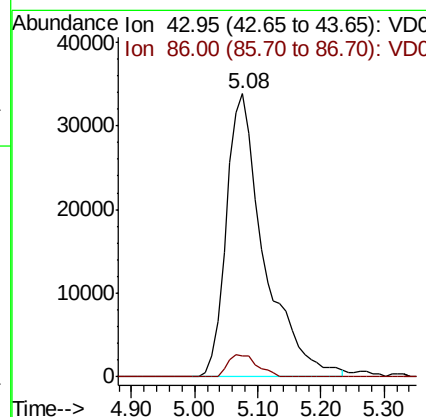
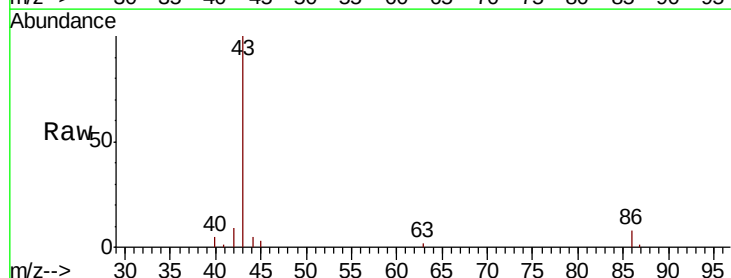
Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

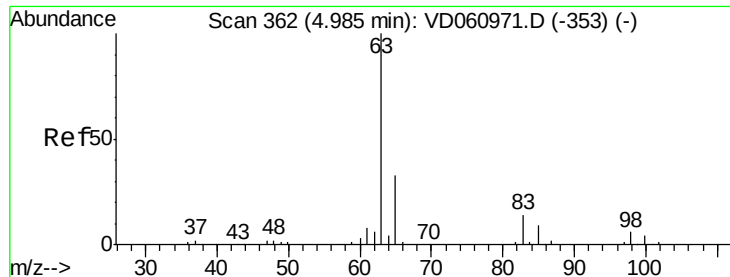
Tot Ion:	45	Resp:	54607
Ion	Ratio	Lower	Upper
45	100		
43	54.6	45.8	68.8
87	18.8	14.9	22.3
59	10.5	8.0	12.0



#23
Vinyl Acetate
Concen: 10.275 ug/l
RT: 5.08 min Scan# 371
Delta R.T. 0.02 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Tgt Ion:	43	Resp:	140571
Ion	Ratio	Lower	Upper
43	100		
86	7.6	6.2	9.2





#24

1,1-Dichloroethane

Concen: 2.068 ug/l

RT: 5.01 min Scan# 364

Delta R.T. 0.02 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

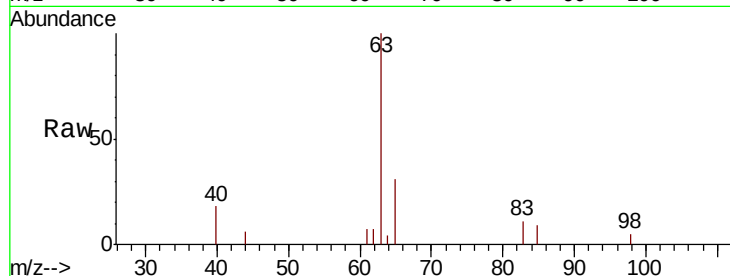
Tot Ion: 63 Resp: 30197

Ion Ratio Lower Upper

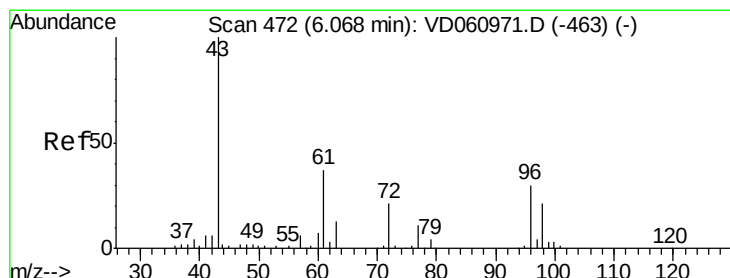
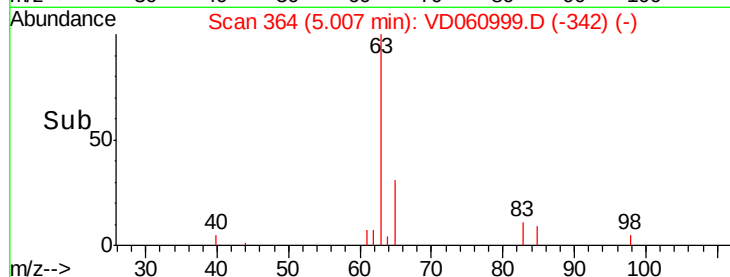
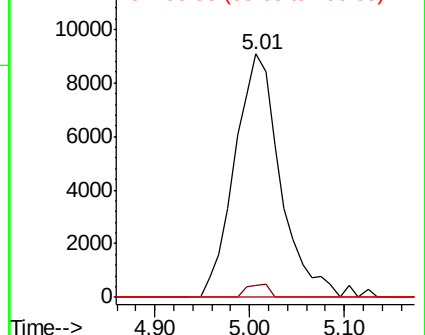
63 100

98 5.0 3.0 9.2

100 0.0 2.0 5.8#



Abundance Ion 62.95 (62.65 to 63.65): VDC
Ion 97.95 (97.65 to 98.65): VDC
Ion 99.95 (99.65 to 100.65): VDC



#25

2-Butanone

Concen: 10.798 ug/l

RT: 6.08 min Scan# 473

Delta R.T. 0.01 min

Lab File: VD060999.D

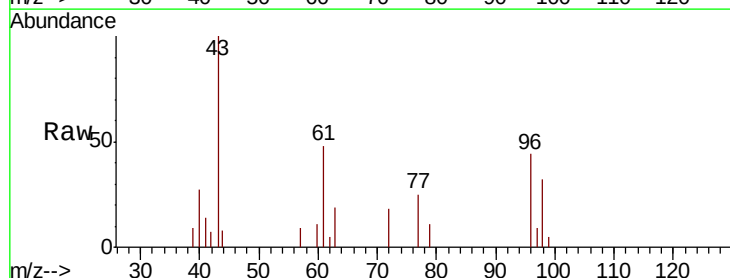
Acq: 11 Mar 2019 12:40

Tgt Ion: 43 Resp: 23313

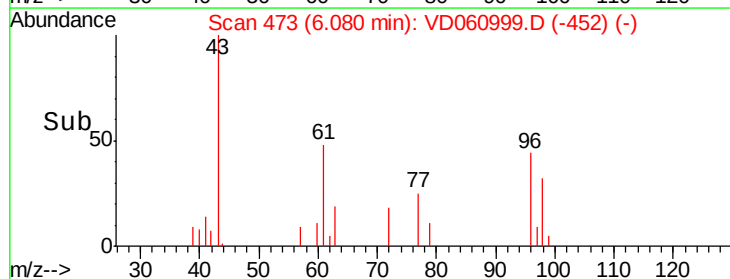
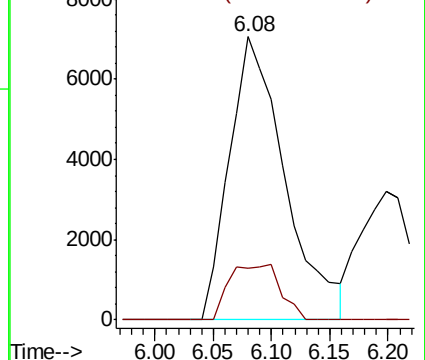
Ion Ratio Lower Upper

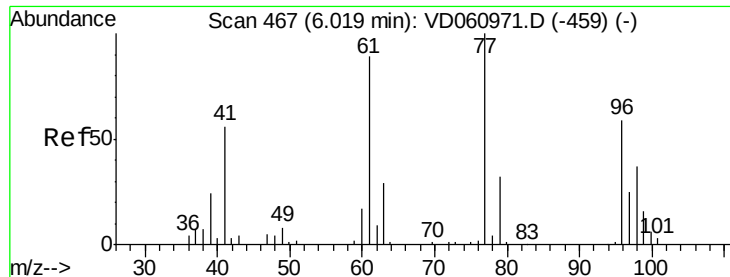
43 100

72 18.1 16.7 25.1



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 72.00 (71.70 to 72.70): VDC

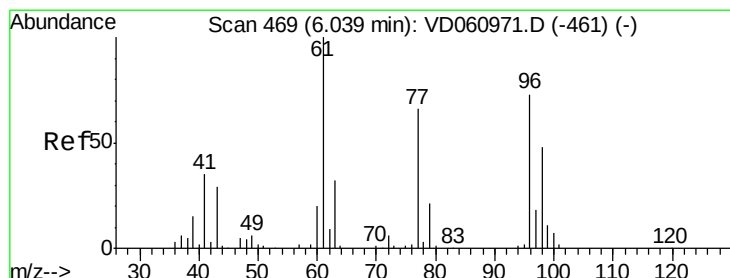
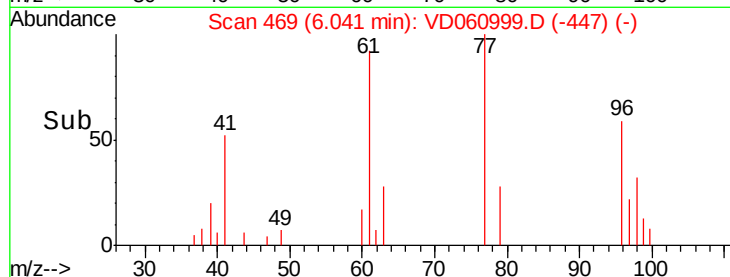
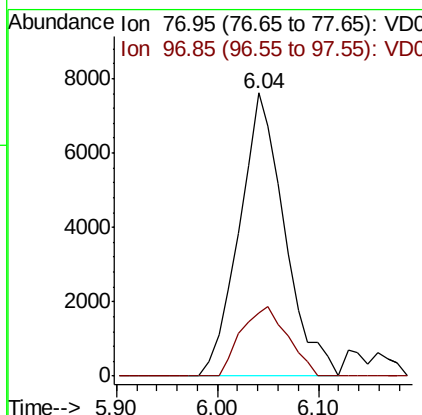
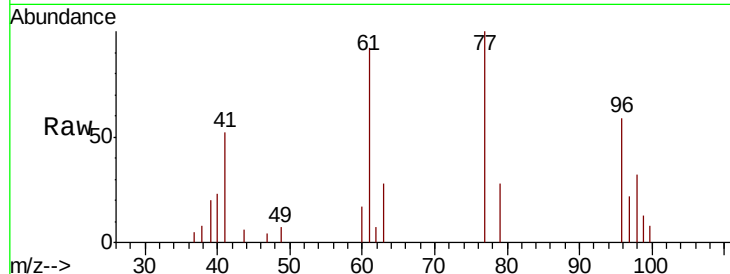




#26
 2,2-Dichloropropane
 Concen: 2.085 ug/l
 RT: 6.04 min Scan# 469
 Delta R.T. 0.02 min
 Lab File: VD060999.D
 Acq: 11 Mar 2019 12:40

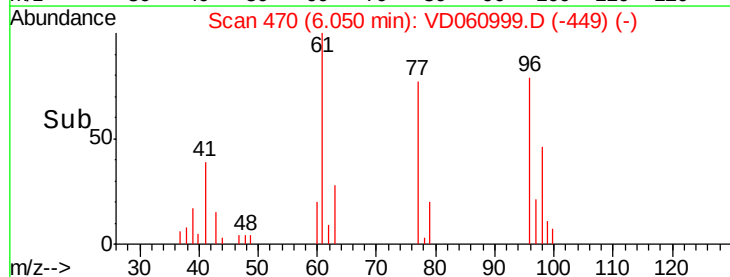
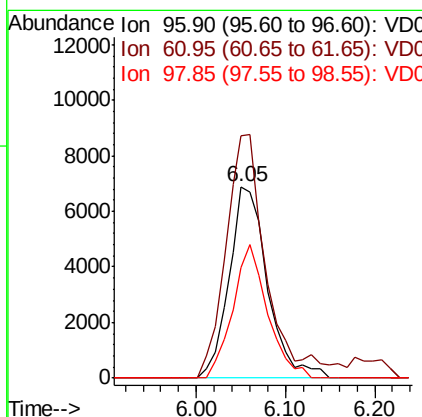
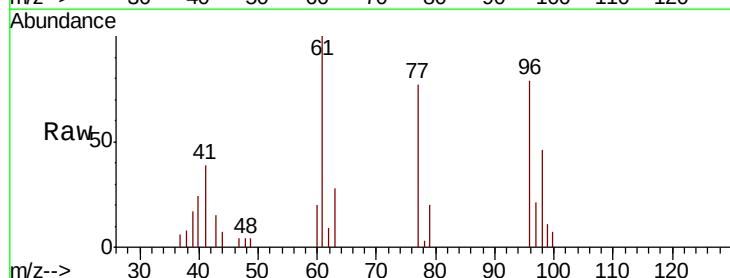
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

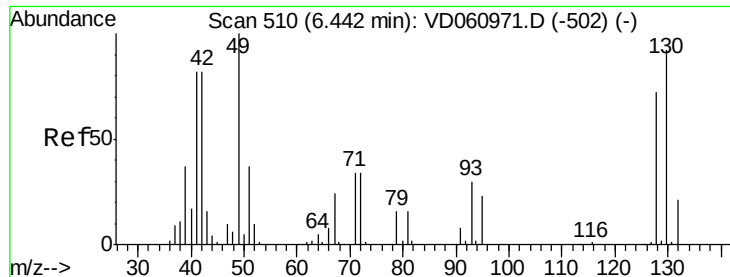
Tot Ion: 77 Resp: 23769
 Ion Ratio Lower Upper
 77 100
 97 22.1 12.6 37.6



#27
 cis-1,2-Dichloroethene
 Concen: 2.243 ug/l
 RT: 6.05 min Scan# 470
 Delta R.T. 0.01 min
 Lab File: VD060999.D
 Acq: 11 Mar 2019 12:40

Tgt Ion: 96 Resp: 20671
 Ion Ratio Lower Upper
 96 100
 61 126.6 0.0 273.6
 98 57.8 0.0 132.6





#28

Bromochloromethane

Concen: 2.105 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.02 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

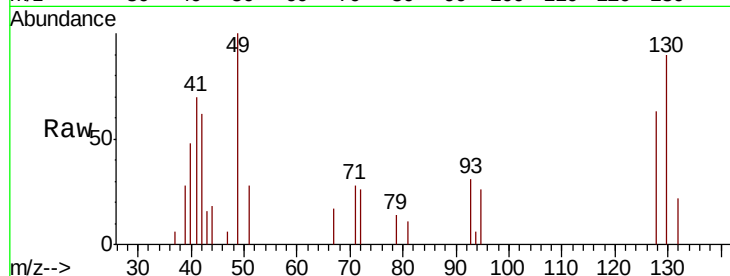
Tot Ion: 49 Resp: 13009

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.0

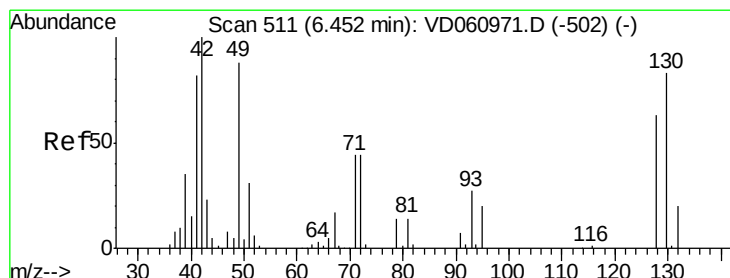
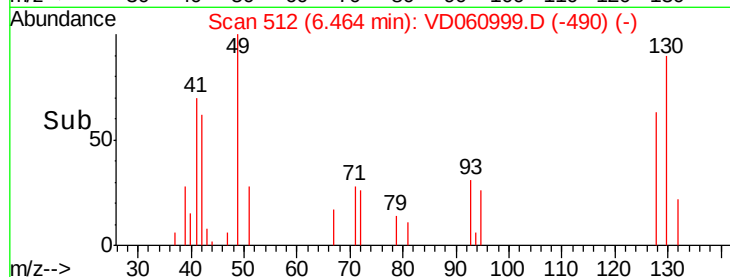
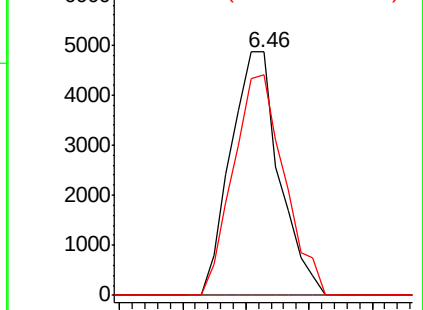
130 90.4 73.8 110.8



Abundance Ion 48.90 (48.60 to 49.60): VDC

Ion 128.80 (128.50 to 129.50): VDC

Ion 129.80 (129.50 to 130.50): VDC



#29

Tetrahydrofuran

Concen: 9.270 ug/l

RT: 6.47 min Scan# 513

Delta R.T. 0.02 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

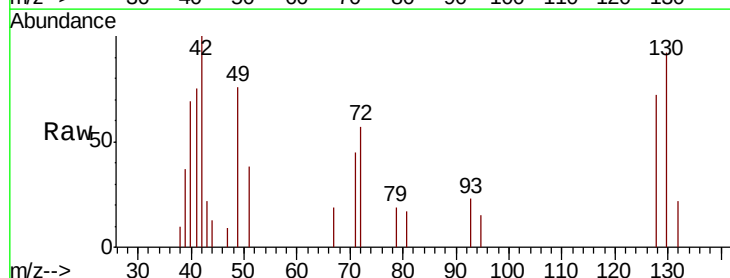
Tgt Ion: 42 Resp: 10867

Ion Ratio Lower Upper

42 100

72 42.0 34.5 51.7

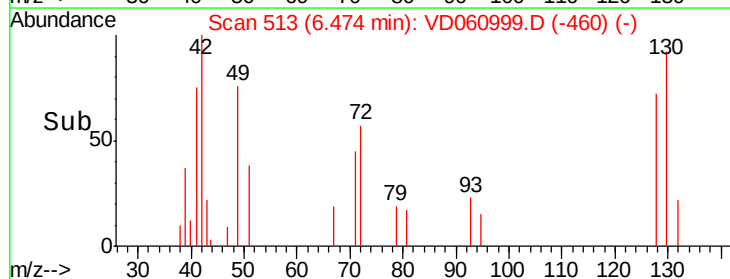
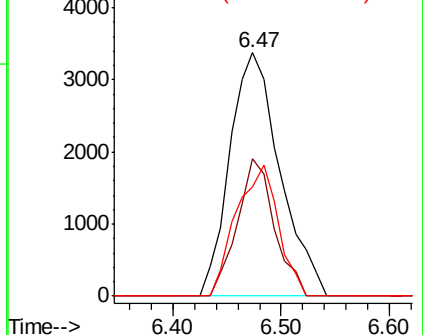
71 45.2 33.8 50.6

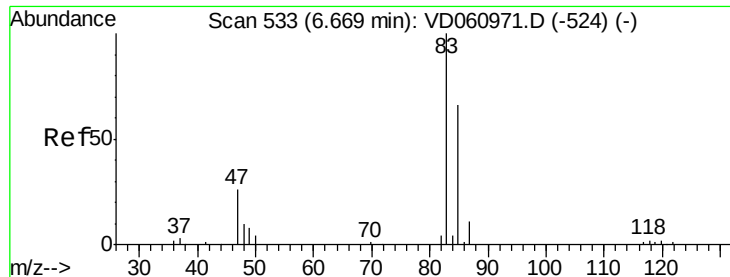


Abundance Ion 42.00 (41.70 to 42.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

Ion 71.00 (70.70 to 71.70): VDC

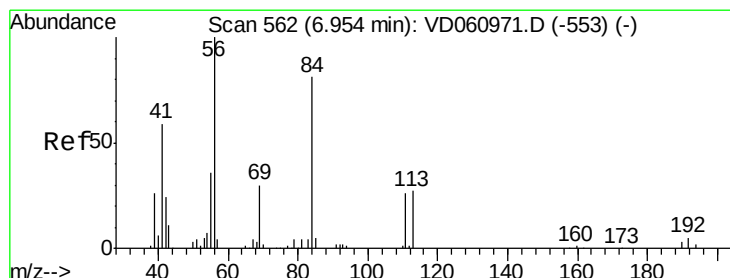
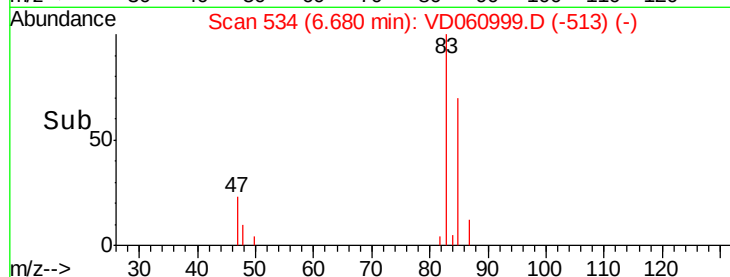
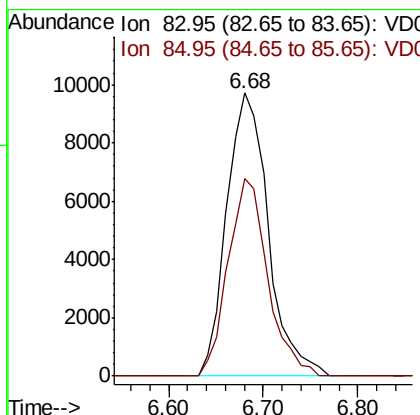
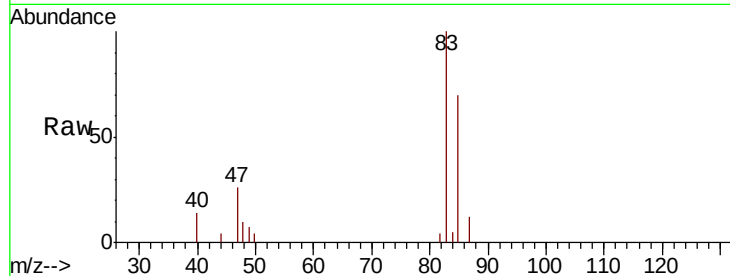




#30
Chloroform
Concen: 1.952 ug/l
RT: 6.68 min Scan# 534
Delta R.T. 0.01 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

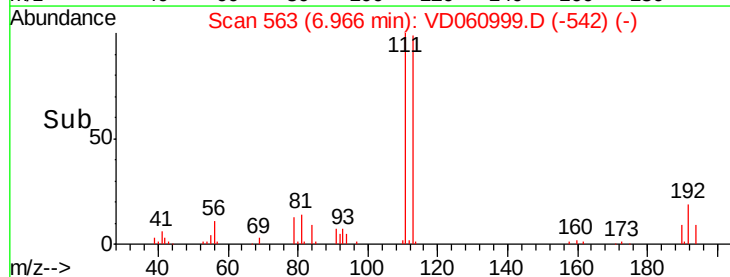
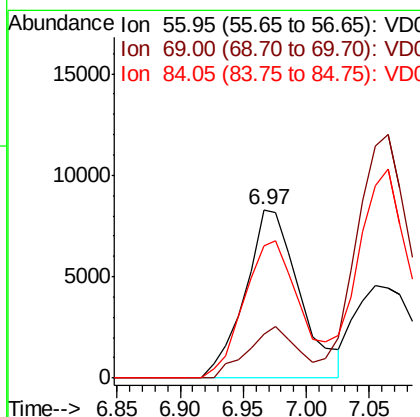
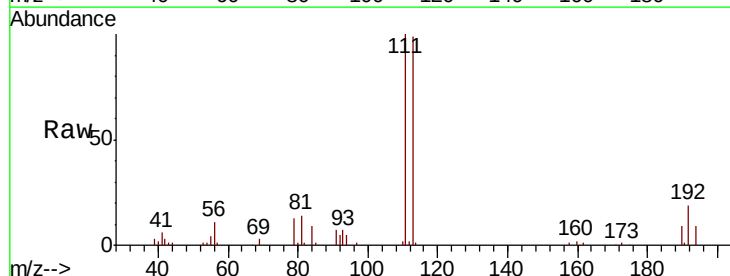
Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

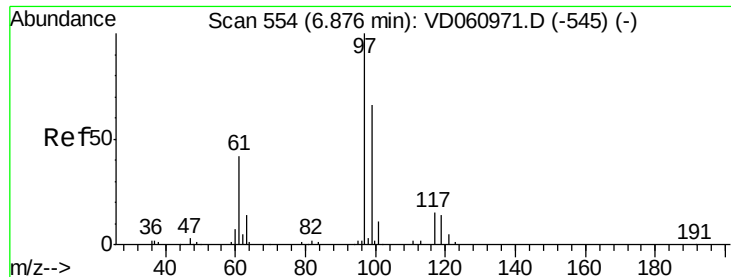
Tot Ion: 83 Resp: 29541
Ion Ratio Lower Upper
83 100
85 69.9 53.0 79.4



#31
Cyclohexane
Concen: 2.120 ug/l
RT: 6.97 min Scan# 563
Delta R.T. 0.01 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Tgt Ion: 56 Resp: 24954
Ion Ratio Lower Upper
56 100
69 26.0 24.0 36.0
84 78.4 65.8 98.6





#32

1,1,1-Trichloroethane

Concen: 2.075 ug/l

RT: 6.89 min Scan# 555

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

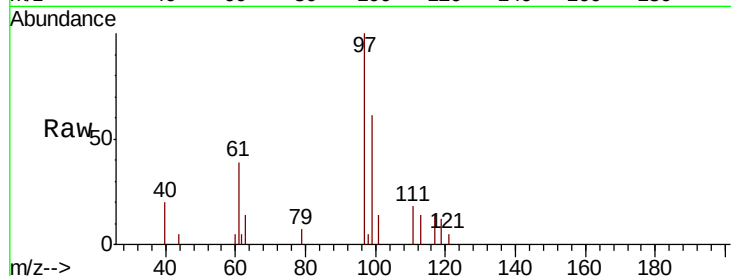
Tot Ion: 97 Resp: 27150

Ion Ratio Lower Upper

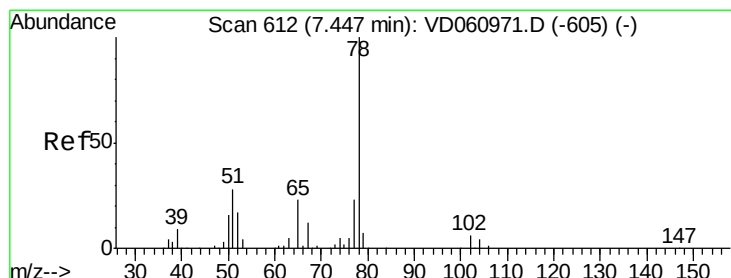
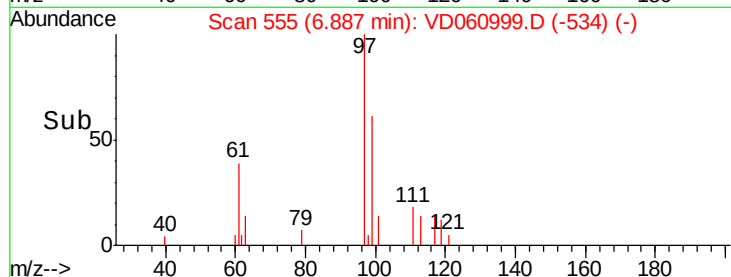
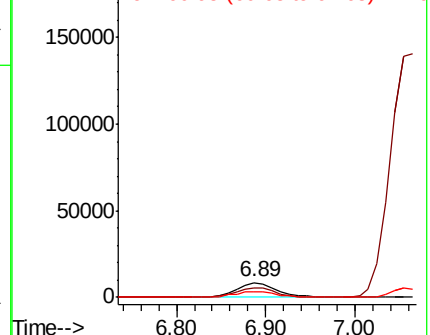
97 100

99 61.3 53.2 79.8

61 39.1 33.8 50.8



Abundance Ion 96.85 (96.55 to 97.55): VDC
Ion 98.85 (98.55 to 99.55): VDC
Ion 60.95 (60.65 to 61.65): VDC



#33

1,2-Dichloroethane-d4

Concen: 2.075 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.02 min

Lab File: VD060999.D

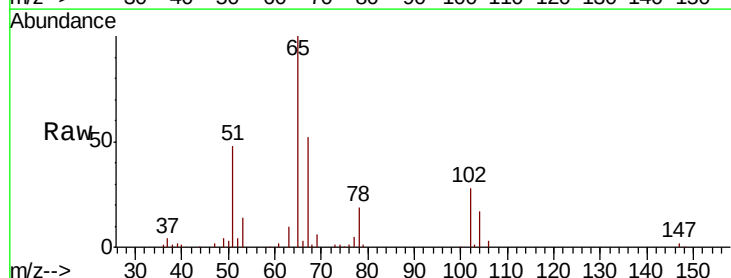
Acq: 11 Mar 2019 12:40

Tgt Ion: 65 Resp: 306550

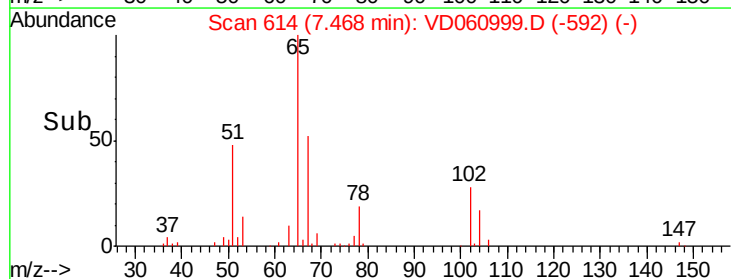
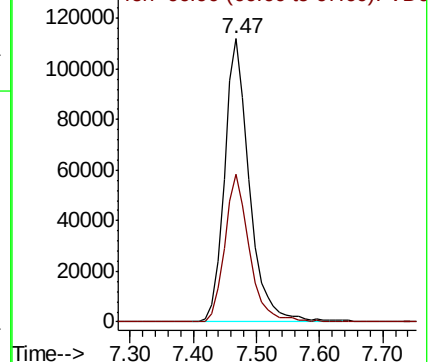
Ion Ratio Lower Upper

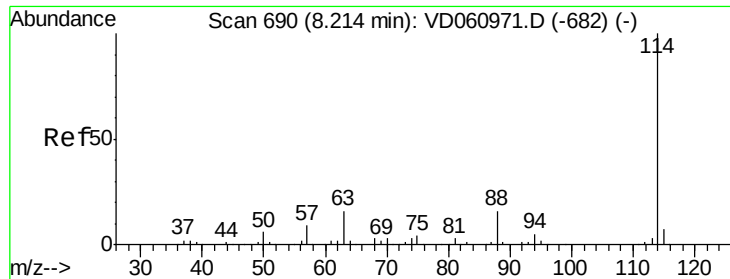
65 100

67 52.2 0.0 105.2



Abundance Ion 64.95 (64.65 to 65.65): VDC
Ion 66.90 (66.60 to 67.60): VDC

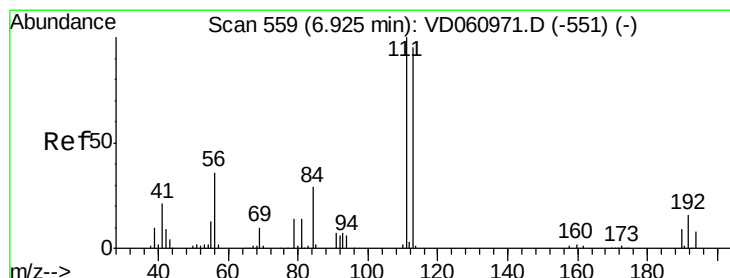
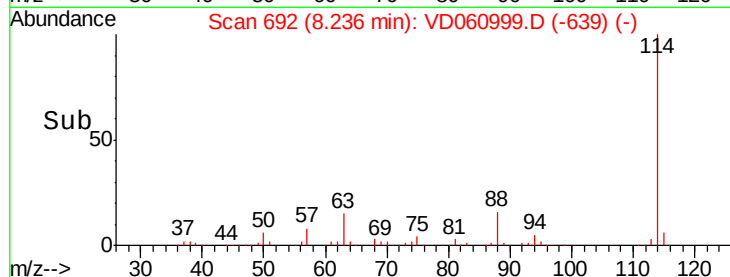
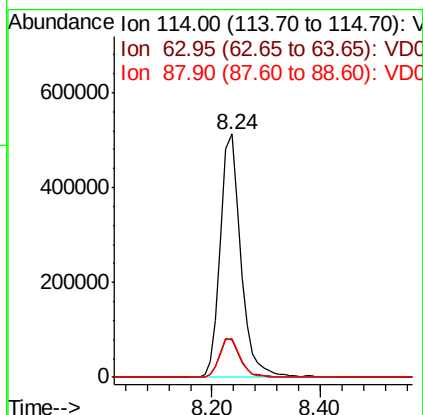
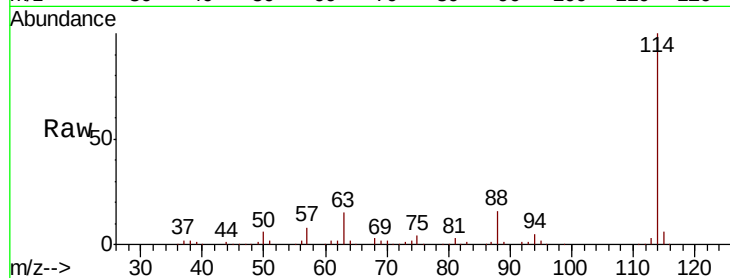




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.24 min Scan# 692
 Delta R.T. 0.02 min
 Lab File: VD060999.D
 Acq: 11 Mar 2019 12:40

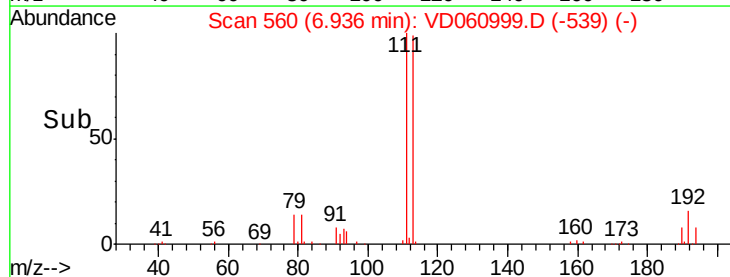
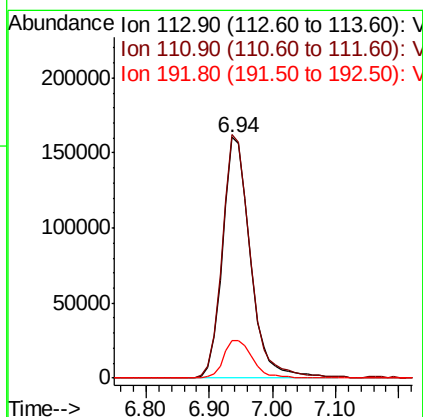
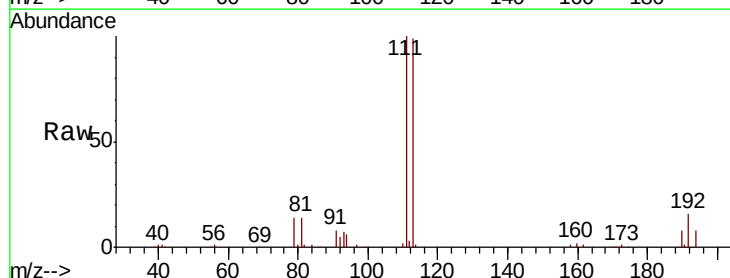
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

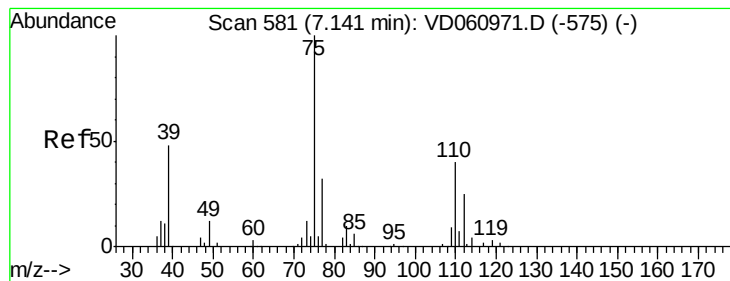
Tot Ion:114 Resp: 1349893
 Ion Ratio Lower Upper
 114 100
 63 15.4 0.0 31.4
 88 15.7 0.0 33.0



#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 6.94 min Scan# 560
 Delta R.T. 0.01 min
 Lab File: VD060999.D
 Acq: 11 Mar 2019 12:40

Tgt Ion:113 Resp: 491927
 Ion Ratio Lower Upper
 113 100
 111 101.1 84.2 126.4
 192 15.8 13.1 19.7





#36

1,1-Dichloropropene

Concen: 2.252 ug/l

RT: 7.16 min Scan# 583

Delta R.T. 0.02 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

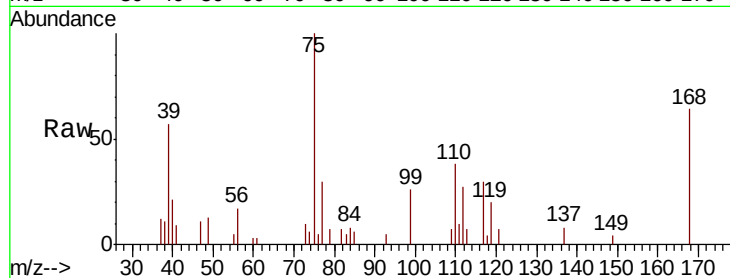
Tot Ion: 75 Resp: 26207

Ion Ratio Lower Upper

75 100

110 38.2 19.7 59.1

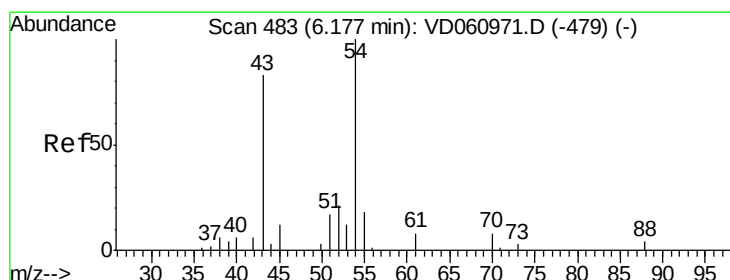
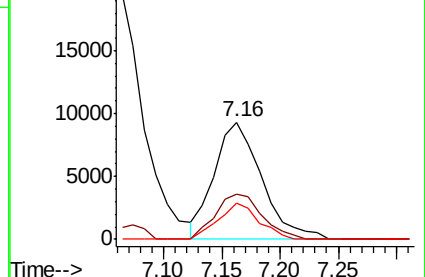
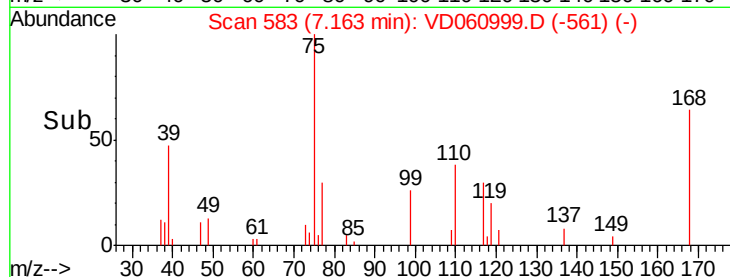
77 30.5 24.7 37.1



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 1.961 ug/l

RT: 6.20 min Scan# 485

Delta R.T. 0.02 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

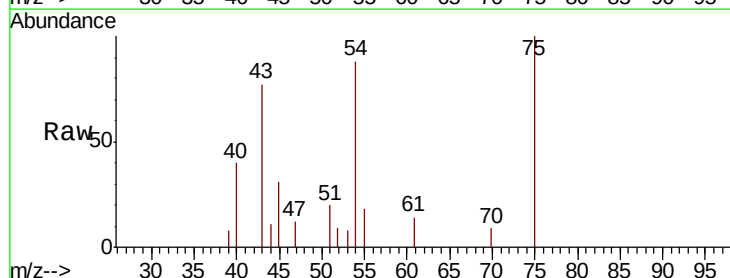
Tgt Ion: 43 Resp: 10707

Ion Ratio Lower Upper

43 100

61 18.4 13.7 20.5

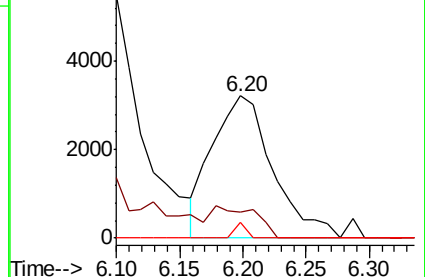
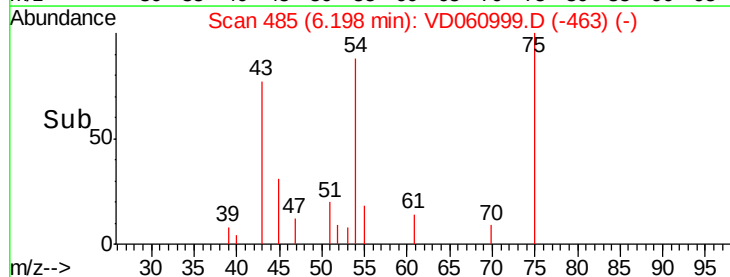
70 11.3 7.1 10.7#

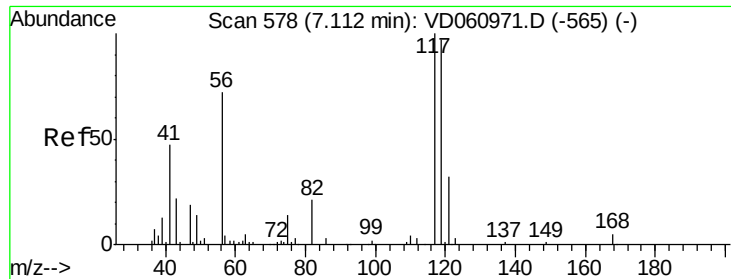


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

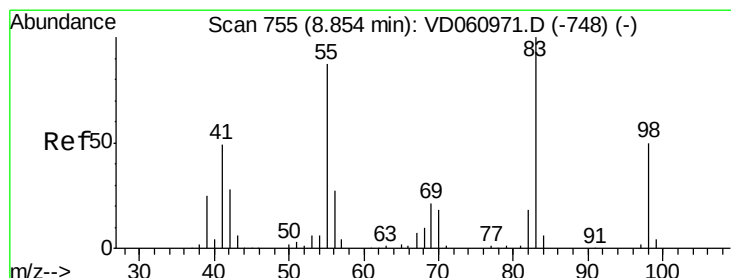
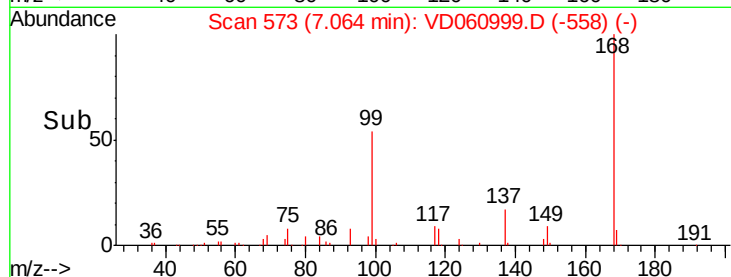
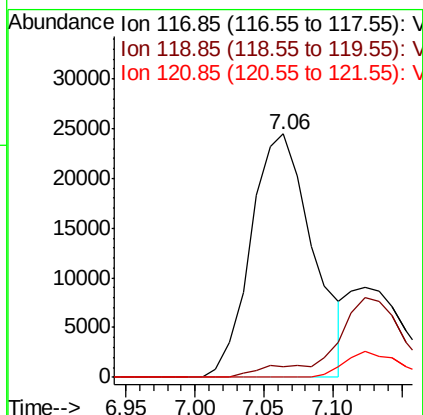
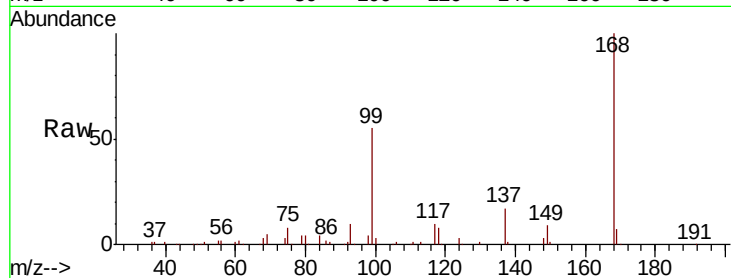




#38
Carbon Tetrachloride
Concen: 5.948 ug/l
RT: 7.06 min Scan# 573
Delta R.T. -0.05 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

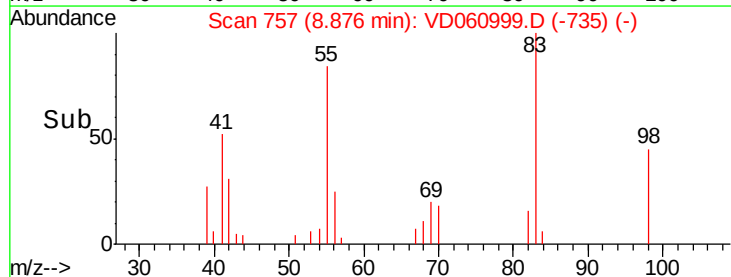
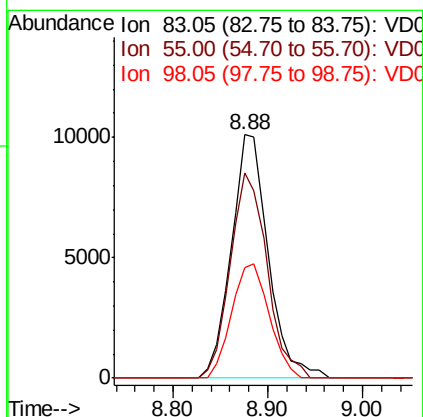
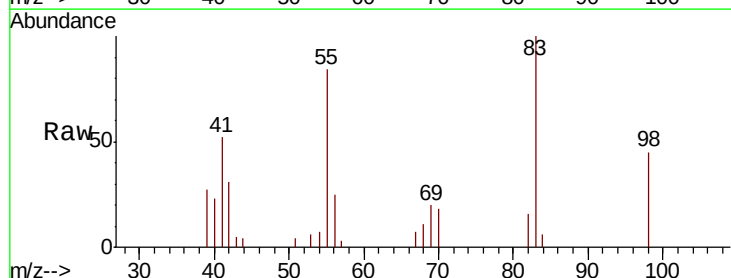
Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

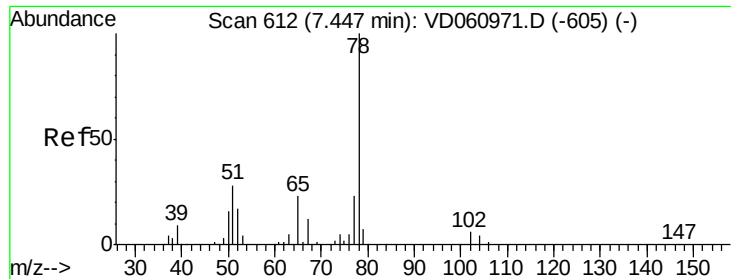
Tot Ion:117 Resp: 76243
Ion Ratio Lower Upper
117 100
119 4.2 77.8 116.8#
121 0.0 25.3 37.9#



#39
Methylcyclohexane
Concen: 2.272 ug/l
RT: 8.88 min Scan# 757
Delta R.T. 0.02 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Tgt Ion: 83 Resp: 27416
Ion Ratio Lower Upper
83 100
55 84.1 69.6 104.4
98 45.4 40.0 60.0





#40

Benzene

Concen: 2.094 ug/l

RT: 7.47 min Scan# 614

Delta R.T. 0.02 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

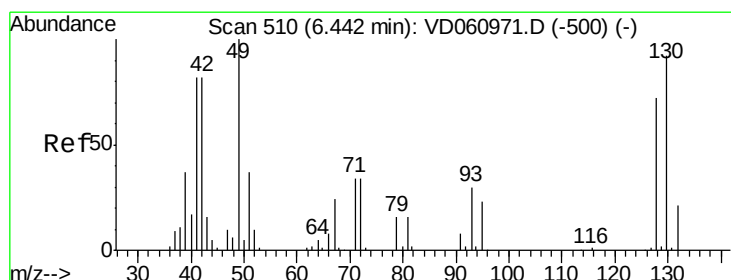
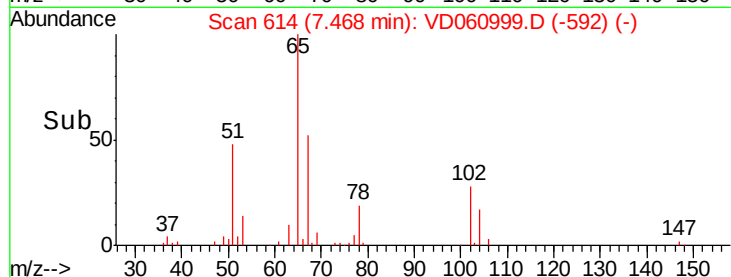
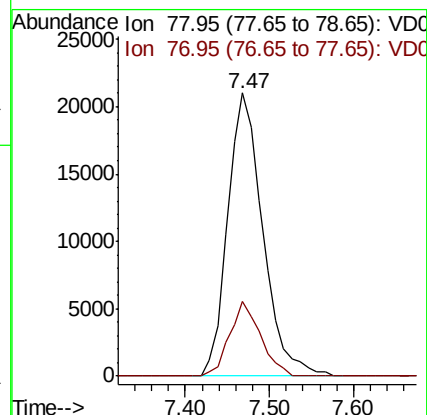
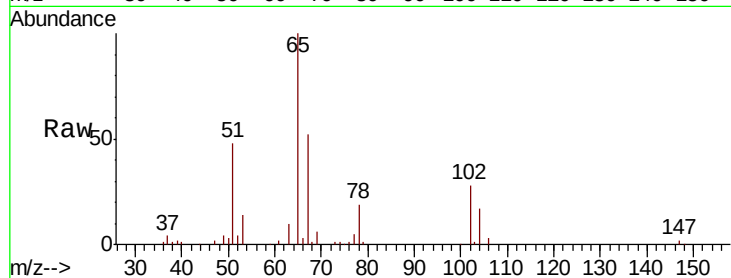
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 78 Resp: 60872

Ion Ratio Lower Upper

78 100

77 26.5 18.8 28.2



#41

Methacrylonitrile

Concen: 1.851 ug/l

RT: 6.46 min Scan# 512

Delta R.T. 0.02 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Tgt Ion: 41 Resp: 11625

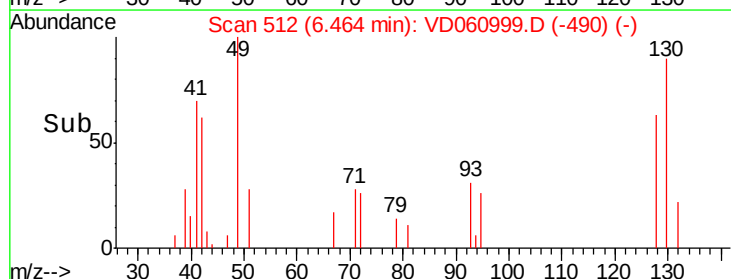
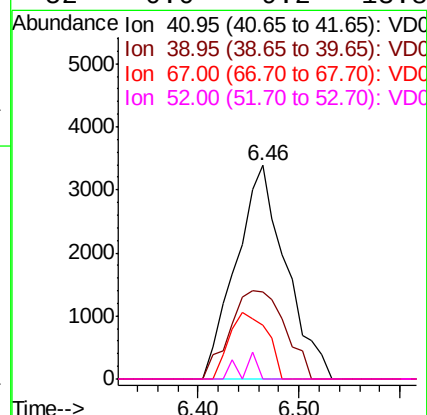
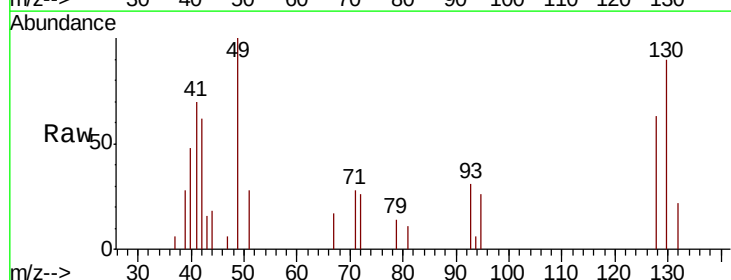
Ion Ratio Lower Upper

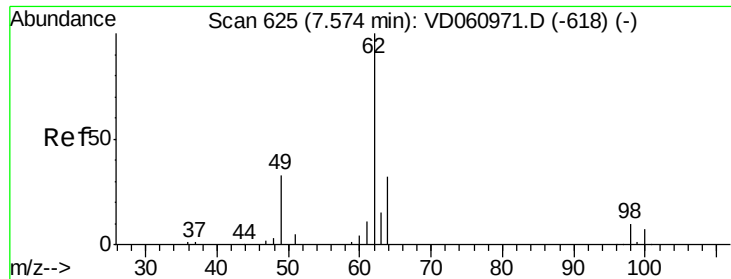
41 100

39 40.6 35.7 53.5

67 25.0 23.0 34.6

52 0.0 9.2 13.8#

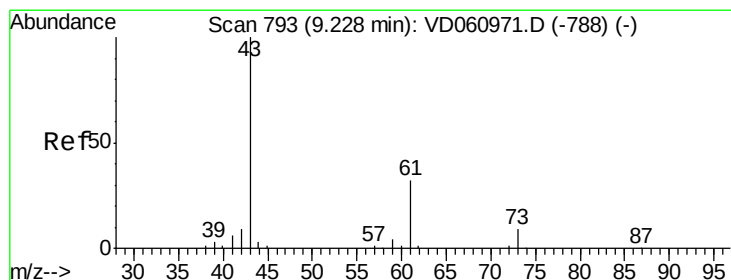
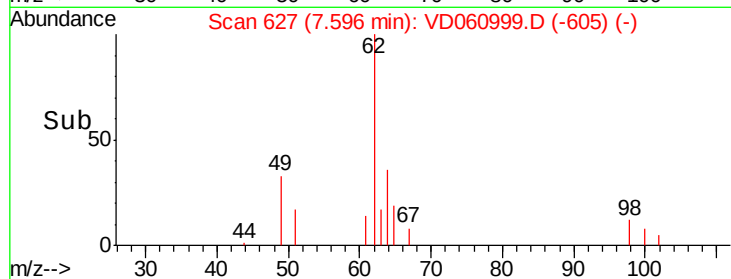
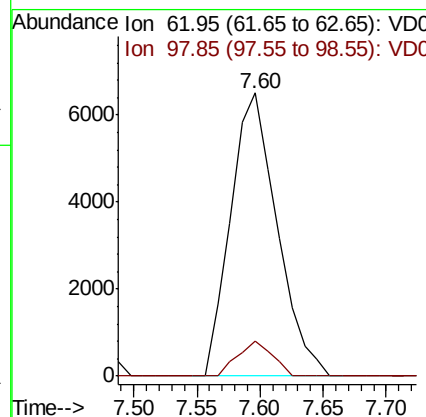
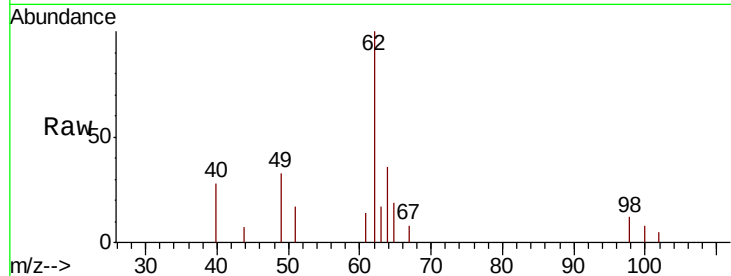




#42
 1,2-Dichloroethane
 Concen: 1.964 ug/l
 RT: 7.60 min Scan# 627
 Delta R.T. 0.02 min
 Lab File: VD060999.D
 Acq: 11 Mar 2019 12:40

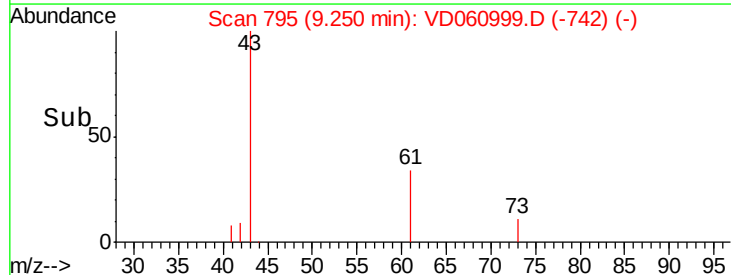
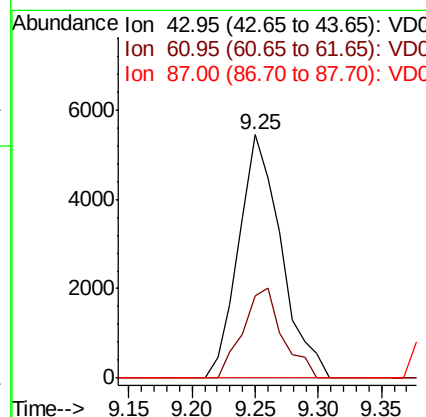
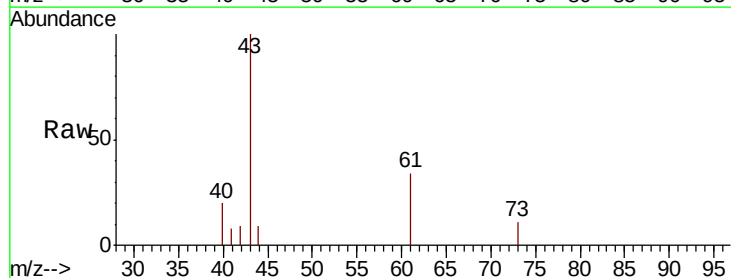
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

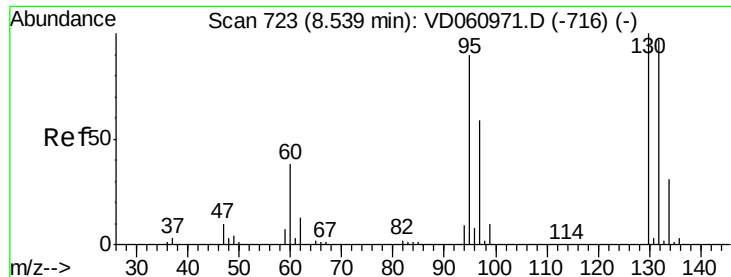
Tot Ion: 62 Resp: 16573
 Ion Ratio Lower Upper
 62 100
 98 12.3 0.0 20.4



#43
 Isopropyl Acetate
 Concen: 1.683 ug/l
 RT: 9.25 min Scan# 795
 Delta R.T. 0.02 min
 Lab File: VD060999.D
 Acq: 11 Mar 2019 12:40

Tgt Ion: 43 Resp: 12729
 Ion Ratio Lower Upper
 43 100
 61 34.1 25.6 38.4
 87 0.0 0.2 0.4#

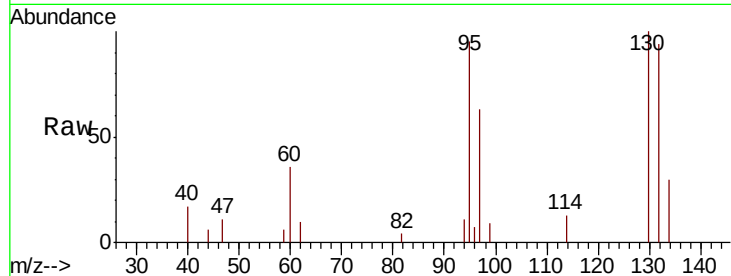




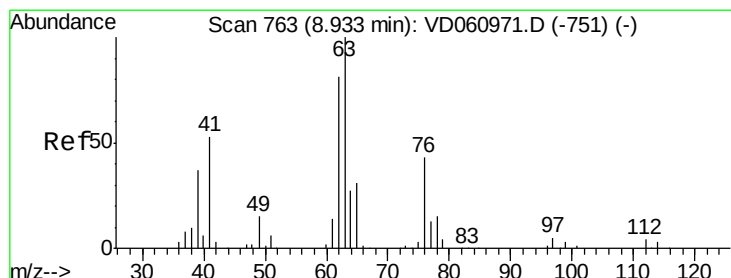
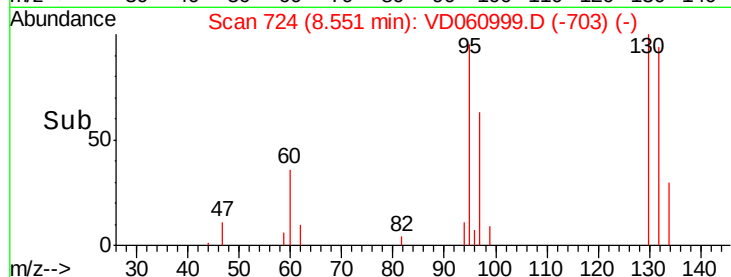
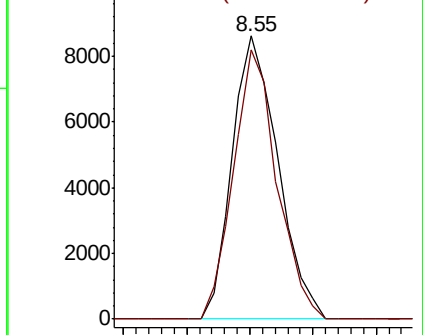
#44
 Trichloroethene
 Concen: 2.156 ug/l
 RT: 8.55 min Scan# 724
 Delta R.T. 0.01 min
 Lab File: VD060999.D
 Acq: 11 Mar 2019 12:40

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion:130 Resp: 21622
 Ion Ratio Lower Upper
 130 100
 95 95.1 0.0 179.4

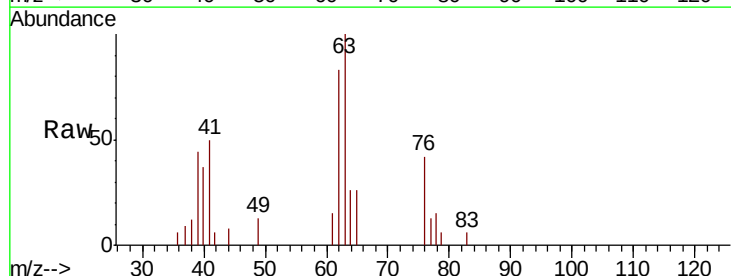


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VDC

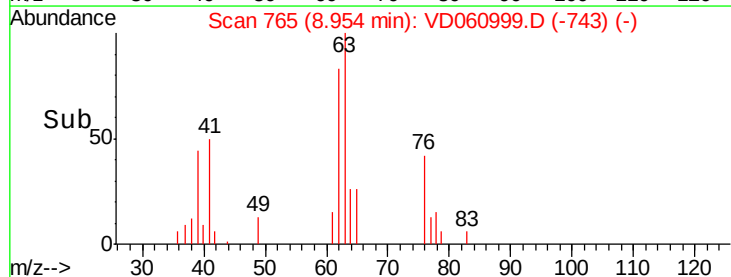
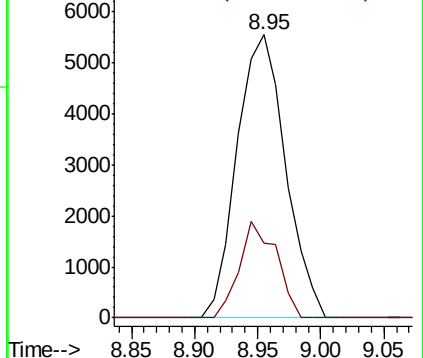


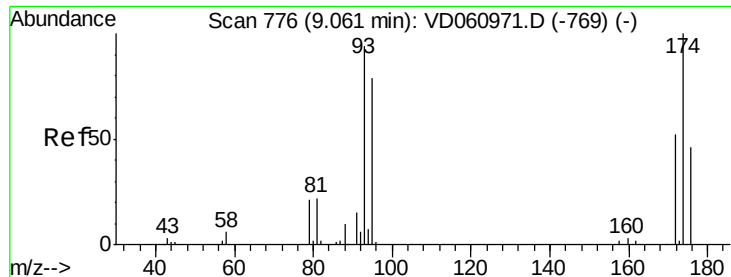
#45
 1,2-Dichloropropane
 Concen: 1.939 ug/l
 RT: 8.95 min Scan# 765
 Delta R.T. 0.02 min
 Lab File: VD060999.D
 Acq: 11 Mar 2019 12:40

Tgt Ion: 63 Resp: 14809
 Ion Ratio Lower Upper
 63 100
 65 26.5 24.8 37.2



Abundance Ion 62.95 (62.65 to 63.65): VDC
 Ion 64.95 (64.65 to 65.65): VDC





#46

Dibromomethane

Concen: 2.036 ug/l

RT: 9.07 min Scan# 777

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

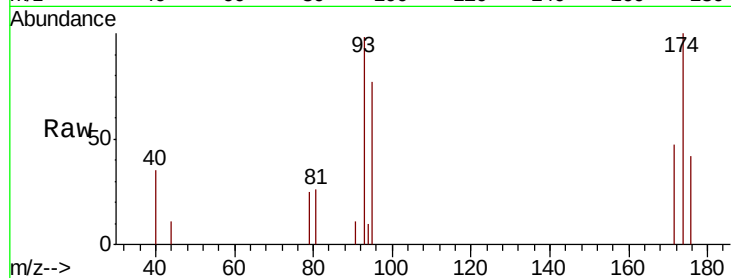
Tot Ion: 93 Resp: 9865

Ion Ratio Lower Upper

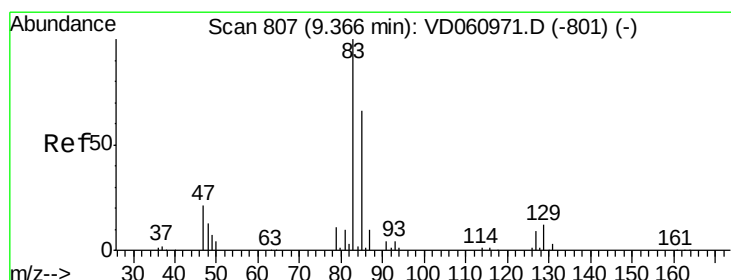
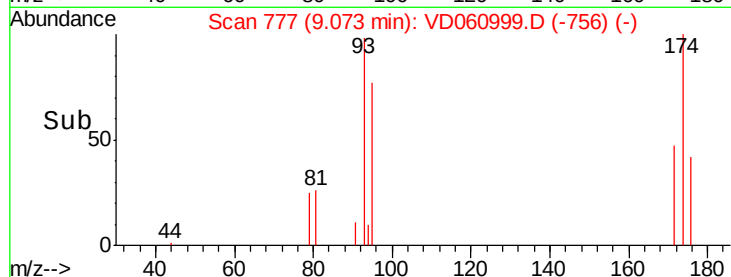
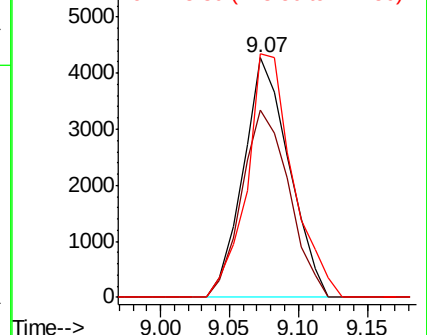
93 100

95 78.4 67.4 101.0

174 101.7 85.4 128.0



Abundance Ion 92.90 (92.60 to 93.60): VDC
Ion 94.90 (94.60 to 95.60): VDC
Ion 173.80 (173.50 to 174.50): V



#47

Bromodichloromethane

Concen: 1.937 ug/l

RT: 9.39 min Scan# 809

Delta R.T. 0.02 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

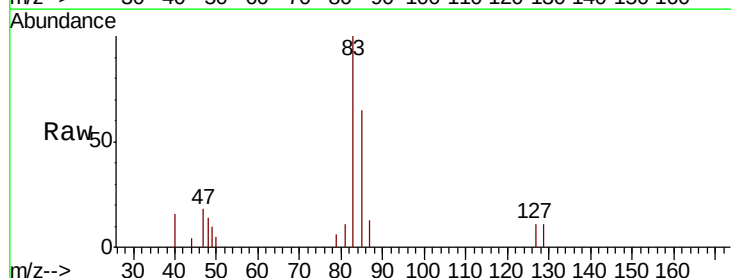
Tgt Ion: 83 Resp: 21178

Ion Ratio Lower Upper

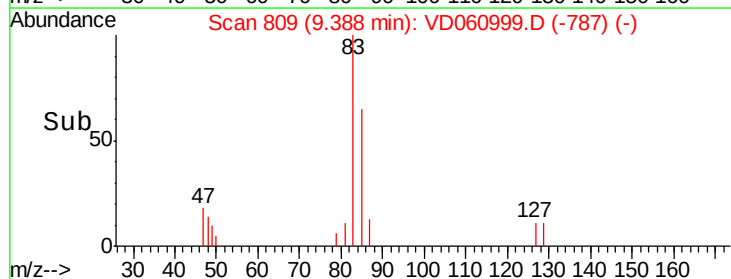
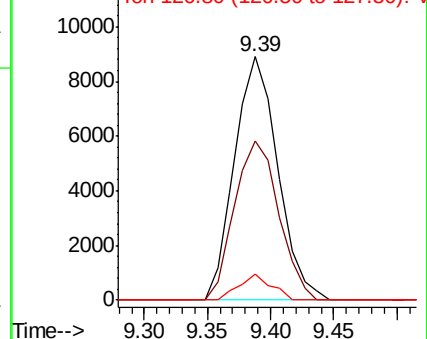
83 100

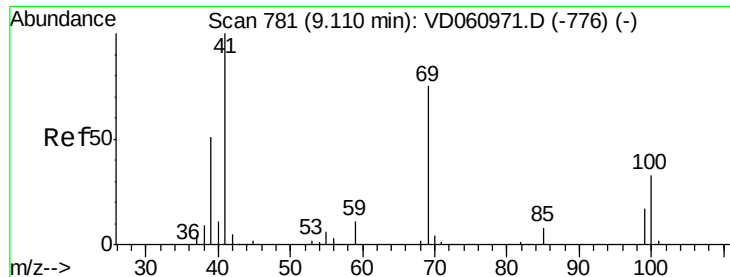
85 65.3 52.5 78.7

127 10.6 7.5 11.3



Abundance Ion 82.85 (82.55 to 83.55): VDC
Ion 84.95 (84.65 to 85.65): VDC
Ion 126.80 (126.50 to 127.50): V





#48

Methyl methacrylate

Concen: 1.926 ug/l

RT: 9.13 min Scan# 783

Delta R.T. 0.02 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

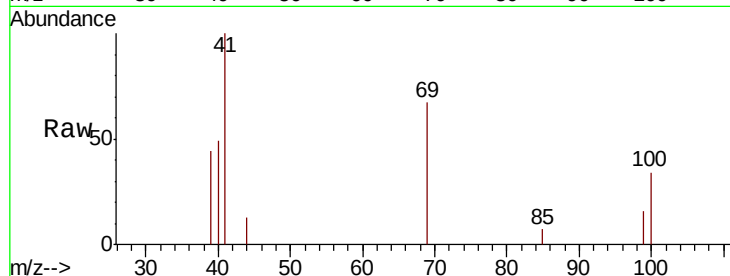
Tot Ion: 41 Resp: 8199

Ion Ratio Lower Upper

41 100

69 66.7 59.9 89.9

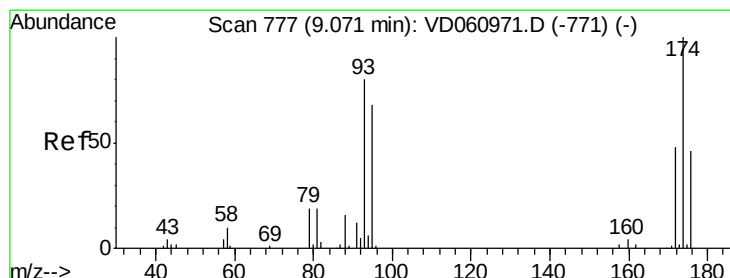
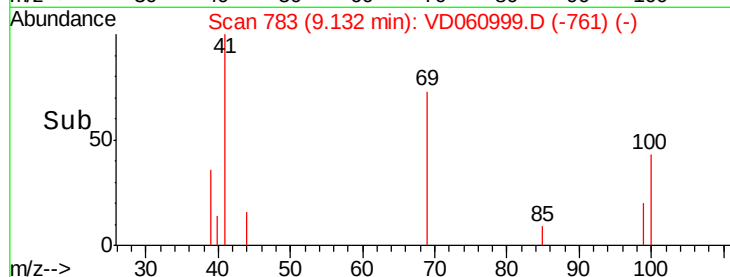
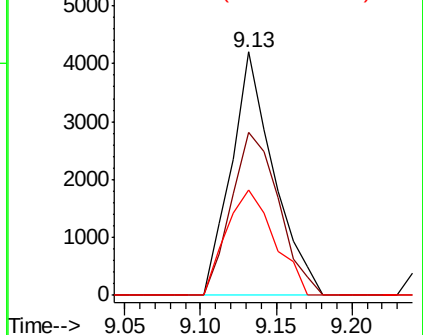
39 43.5 40.9 61.3



Abundance Ion 40.95 (40.65 to 41.65): VDC

Ion 69.00 (68.70 to 69.70): VDC

Ion 38.95 (38.65 to 39.65): VDC



#49

1,4-Dioxane

Concen: 12.774 ug/l

RT: 9.08 min Scan# 778

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

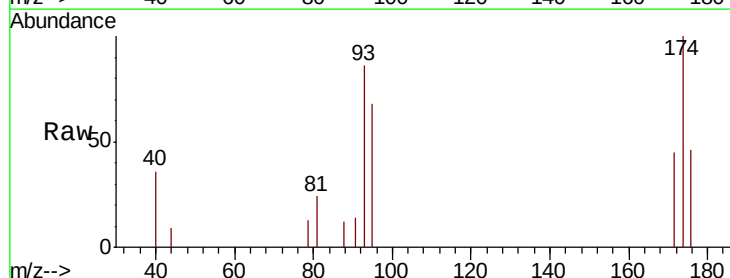
Tgt Ion: 88 Resp: 550

Ion Ratio Lower Upper

88 100

43 0.0 21.0 31.6#

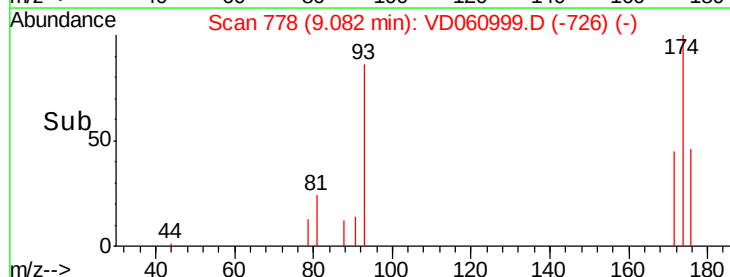
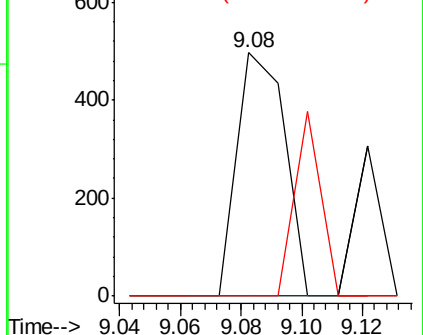
58 0.0 48.6 72.8#

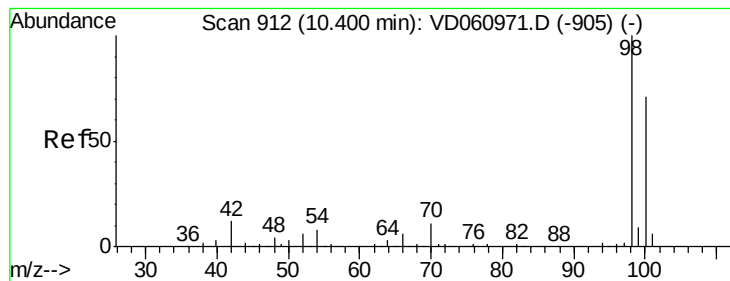


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.05 (42.75 to 43.75): VDC

Ion 57.95 (57.65 to 58.65): VDC





#50

Toluene-d8

Concen: 12.774 ug/l

RT: 10.42 min Scan# 914

Delta R.T. 0.02 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

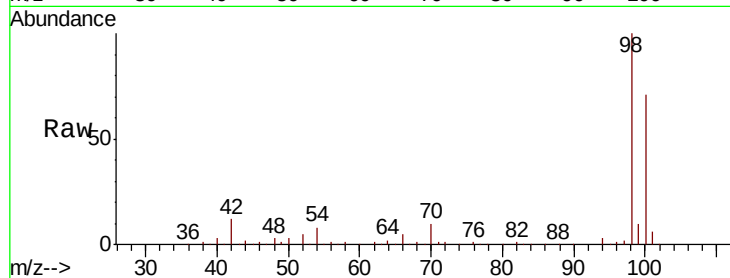
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 98 Resp: 1154127

Ion Ratio Lower Upper

98 100

100 70.6 57.4 86.2



Abundance Ion 98.05 (97.75 to 98.75): VD060971.D (-905) (-)

Ion 100.05 (99.75 to 100.75): VD060971.D (-905) (-)

10.42

500000

400000

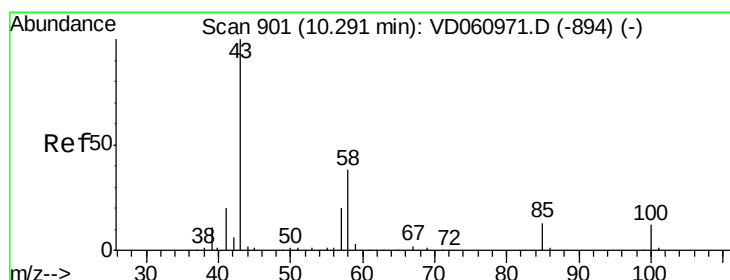
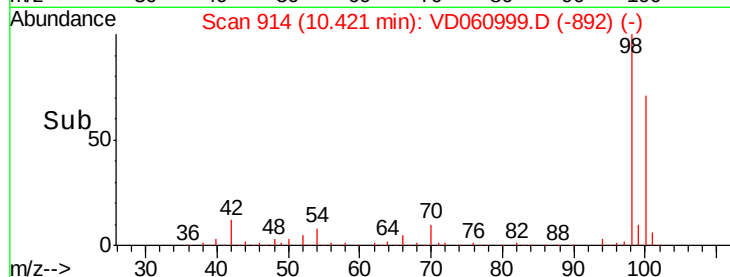
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 10.215 ug/l

RT: 10.31 min Scan# 903

Delta R.T. 0.02 min

Lab File: VD060999.D

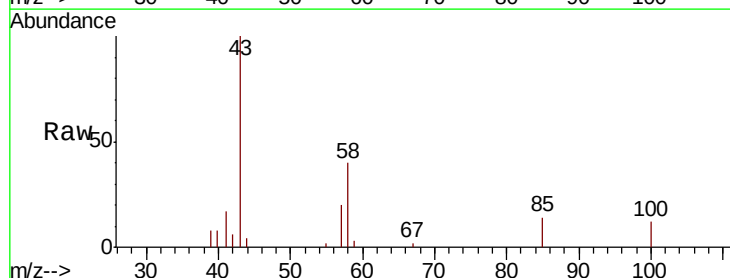
Acq: 11 Mar 2019 12:40

Tgt Ion: 43 Resp: 47327

Ion Ratio Lower Upper

43 100

58 40.2 30.2 45.2



Abundance Ion 42.95 (42.65 to 43.65): VD060971.D (-894) (-)

Ion 57.95 (57.65 to 58.65): VD060971.D (-894) (-)

10.31

20000

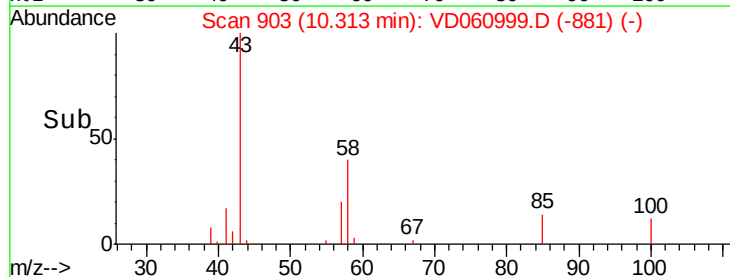
15000

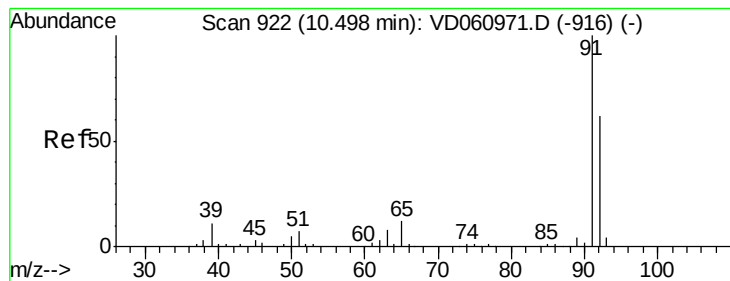
10000

5000

0

Time-->





#52

Toluene

Concen: 2.127 ug/l

RT: 10.52 min Scan# 924

Delta R.T. 0.02 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

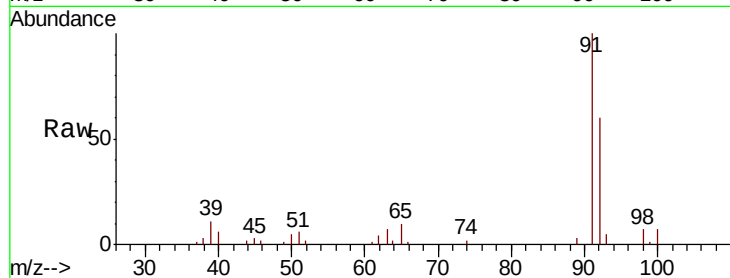
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 92 Resp: 38460

Ion Ratio Lower Upper

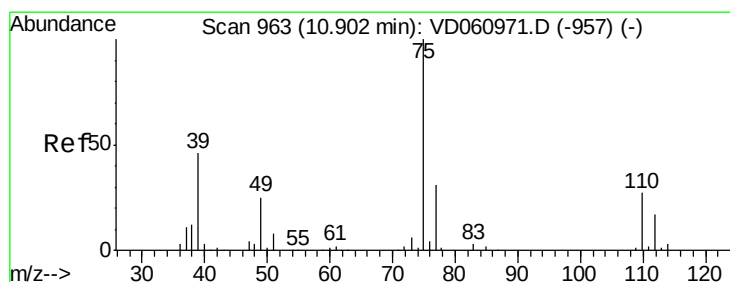
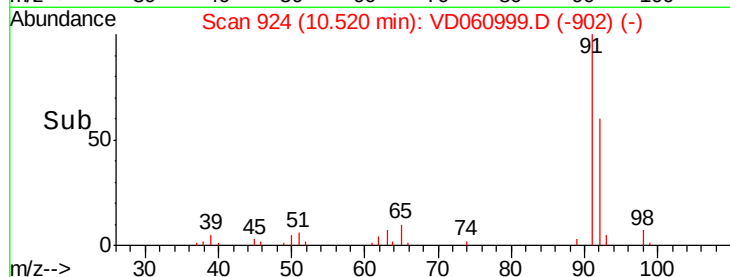
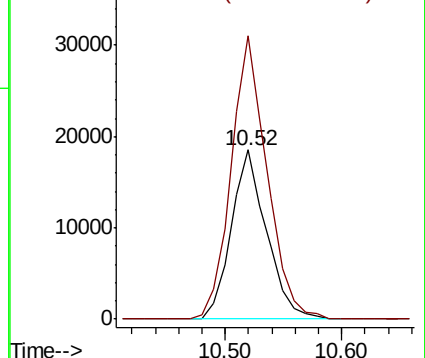
92 100

91 167.5 129.8 194.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#53

t-1,3-Dichloropropene

Concen: 1.936 ug/l

RT: 10.92 min Scan# 965

Delta R.T. 0.02 min

Lab File: VD060999.D

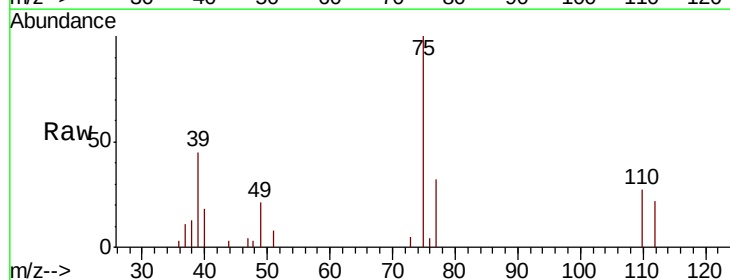
Acq: 11 Mar 2019 12:40

Tgt Ion: 75 Resp: 19357

Ion Ratio Lower Upper

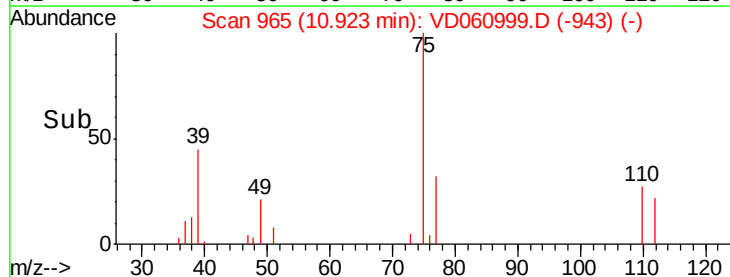
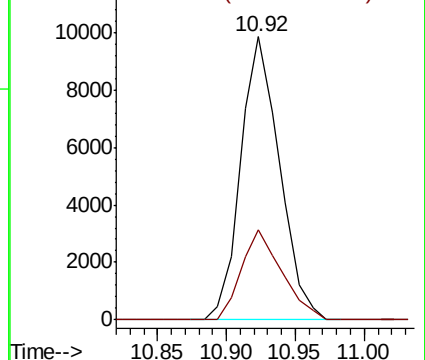
75 100

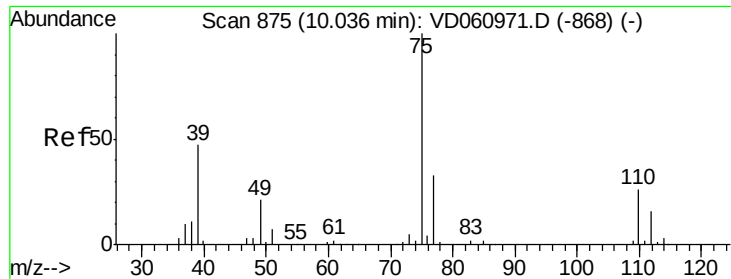
77 31.9 24.7 37.1



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 76.95 (76.65 to 77.65): VDC



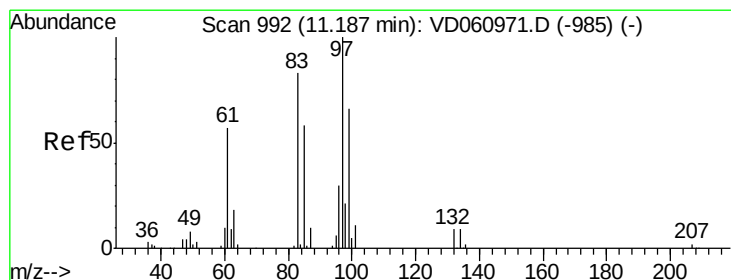
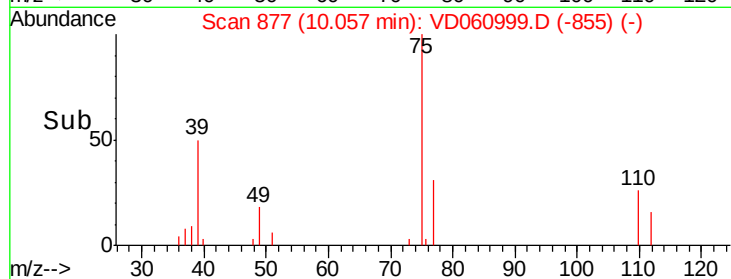
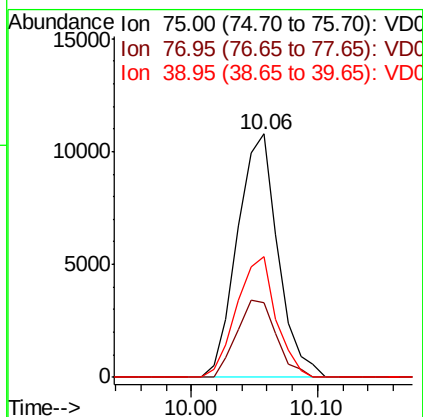
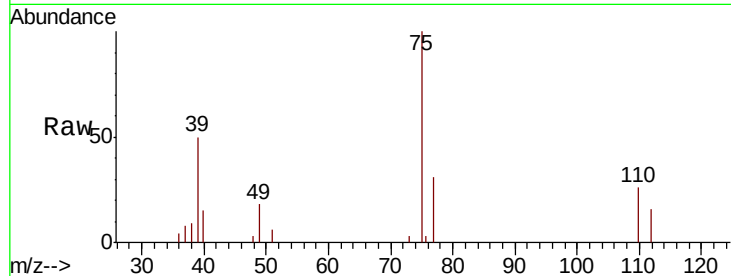


#54

cis-1,3-Dichloropropene
Concen: 1.999 ug/l
RT: 10.06 min Scan# 877
Delta R.T. 0.02 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

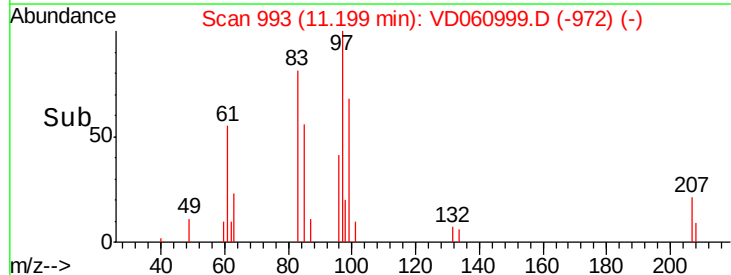
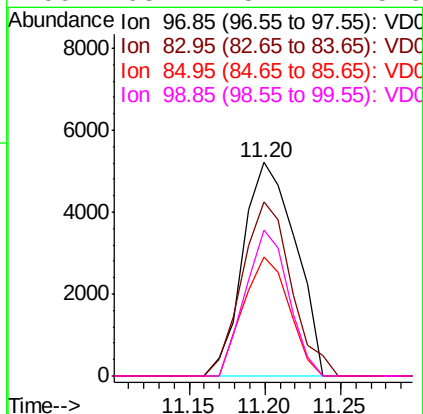
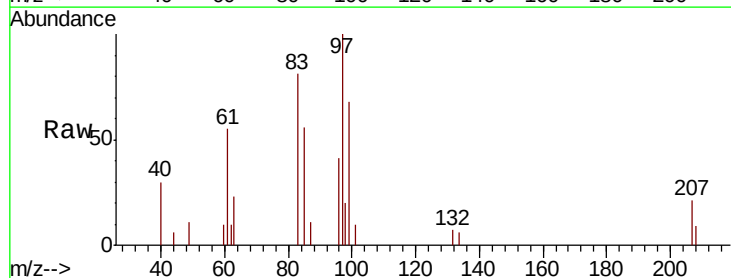
Tot Ion: 75 Resp: 24015
Ion Ratio Lower Upper
75 100
77 30.9 26.2 39.4
39 49.7 37.8 56.8

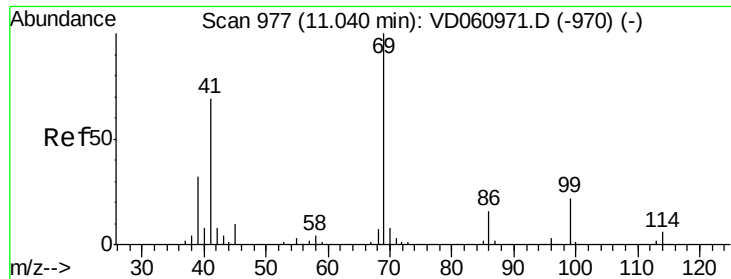


#55

1,1,2-Trichloroethane
Concen: 2.100 ug/l
RT: 11.20 min Scan# 993
Delta R.T. 0.01 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Tgt Ion: 97 Resp: 12647
Ion Ratio Lower Upper
97 100
83 81.4 66.6 100.0
85 55.5 46.4 69.6
99 68.2 52.4 78.6





#56

Ethyl methacrylate

Concen: 1.904 ug/l

RT: 11.05 min Scan# 978

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

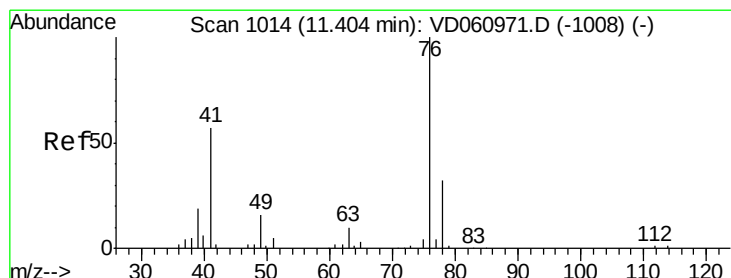
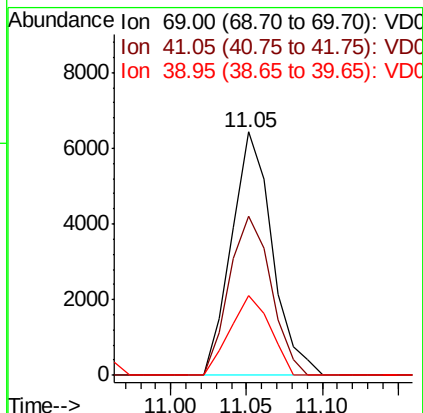
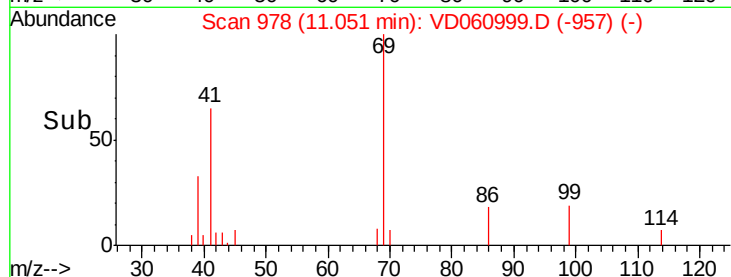
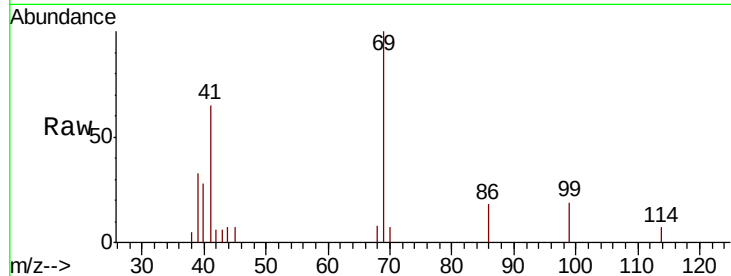
Tot Ion: 69 Resp: 12002

Ion Ratio Lower Upper

69 100

41 65.5 55.5 83.3

39 32.9 26.2 39.2



#57

1,3-Dichloropropane

Concen: 2.008 ug/l

RT: 11.42 min Scan# 1015

Delta R.T. 0.01 min

Lab File: VD060999.D

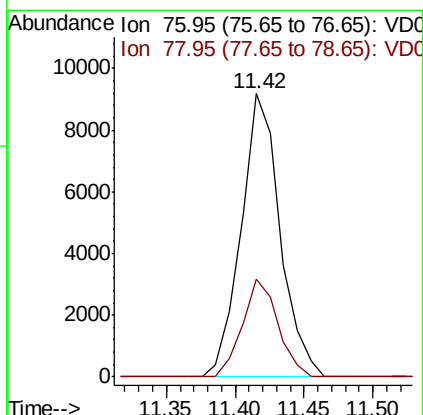
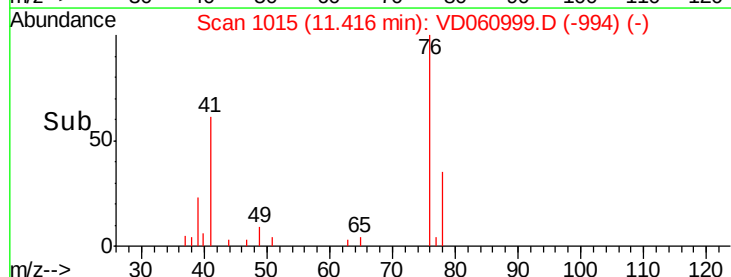
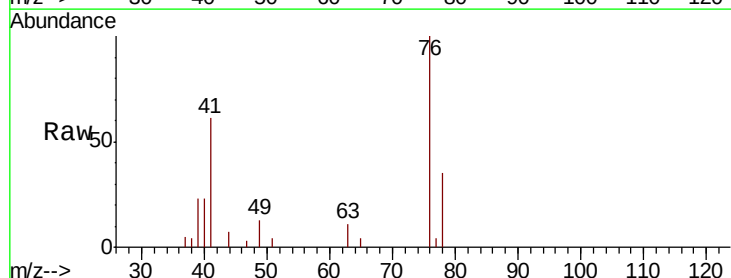
Acq: 11 Mar 2019 12:40

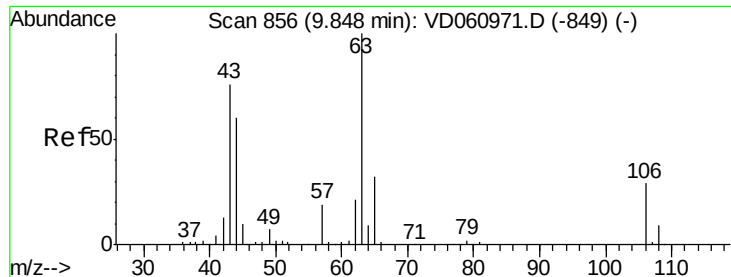
Tgt Ion: 76 Resp: 18067

Ion Ratio Lower Upper

76 100

78 34.8 25.4 38.0





#58

2-Chloroethyl Vinyl ether

Concen: 11.367 ug/l

RT: 9.87 min Scan# 858

Delta R.T. 0.02 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

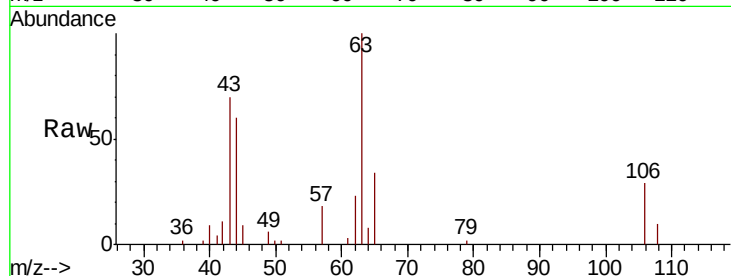
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 63 Resp: 37920

Ion Ratio Lower Upper

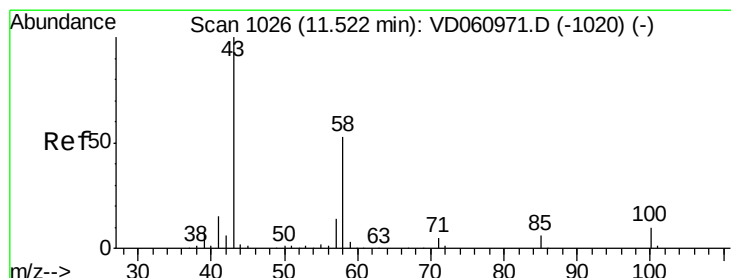
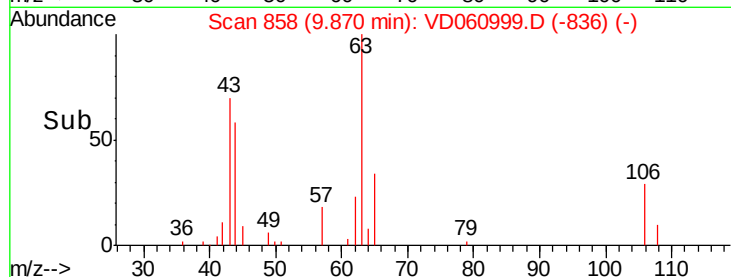
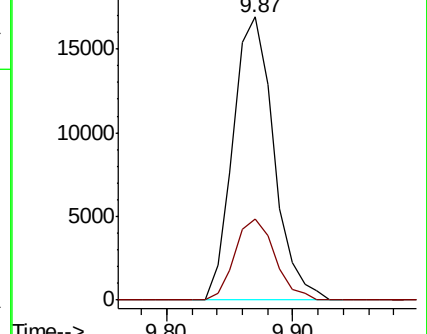
63 100

106 28.7 22.8 34.2



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 105.95 (105.65 to 106.65): VDC



#59

2-Hexanone

Concen: 10.304 ug/l

RT: 11.54 min Scan# 1028

Delta R.T. 0.02 min

Lab File: VD060999.D

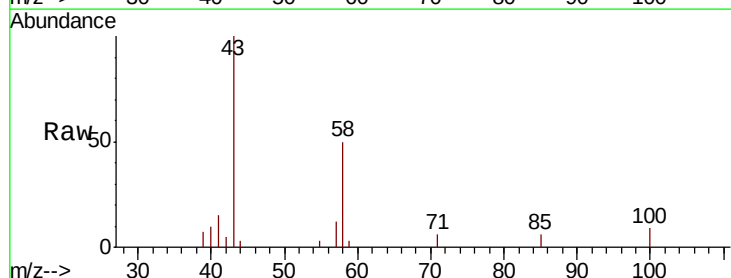
Acq: 11 Mar 2019 12:40

Tgt Ion: 43 Resp: 34923

Ion Ratio Lower Upper

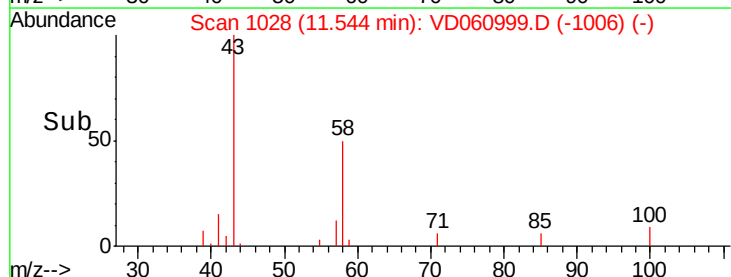
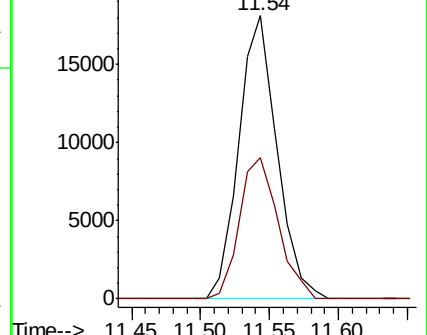
43 100

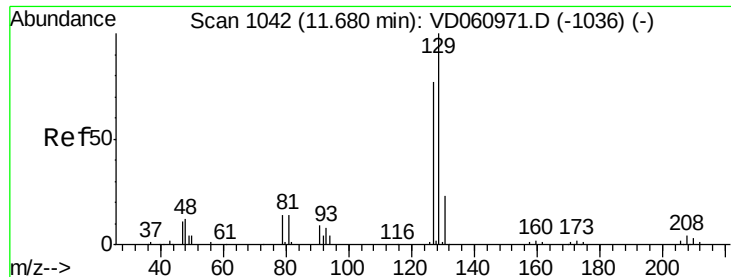
58 49.8 26.5 79.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#60

Dibromochloromethane

Concen: 1.897 ug/l

RT: 11.69 min Scan# 1043

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

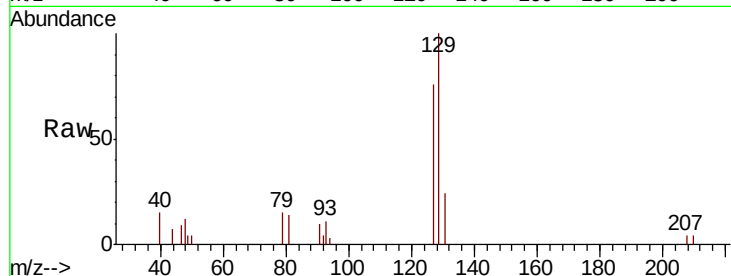
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:129 Resp: 16814

Ion Ratio Lower Upper

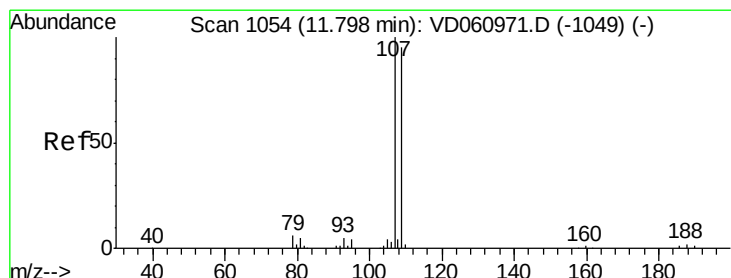
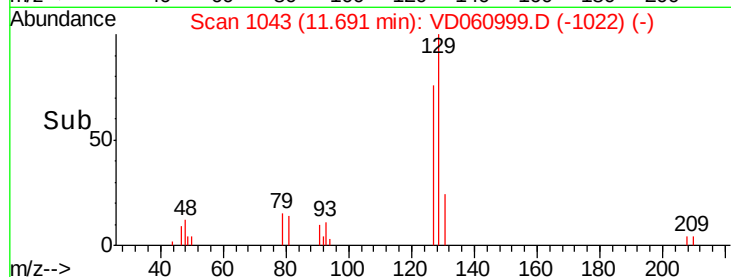
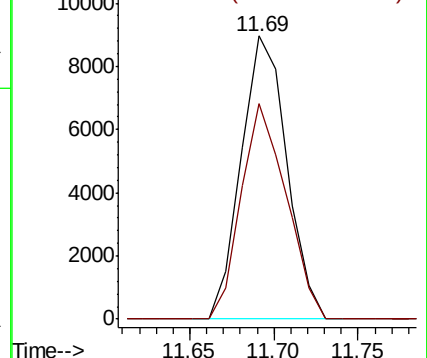
129 100

127 76.2 38.3 114.9



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 2.046 ug/l

RT: 11.82 min Scan# 1056

Delta R.T. 0.02 min

Lab File: VD060999.D

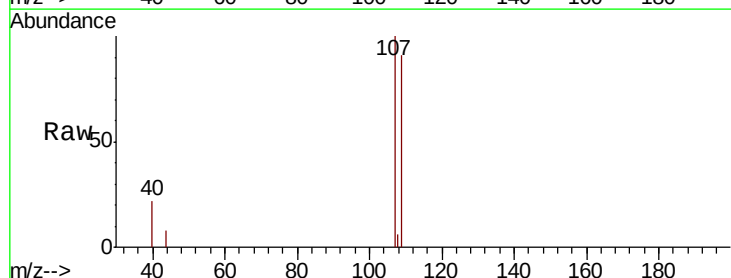
Acq: 11 Mar 2019 12:40

Tgt Ion:107 Resp: 14328

Ion Ratio Lower Upper

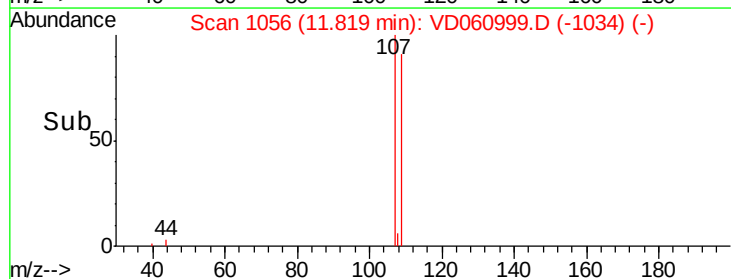
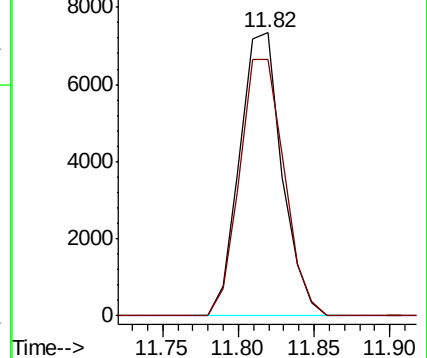
107 100

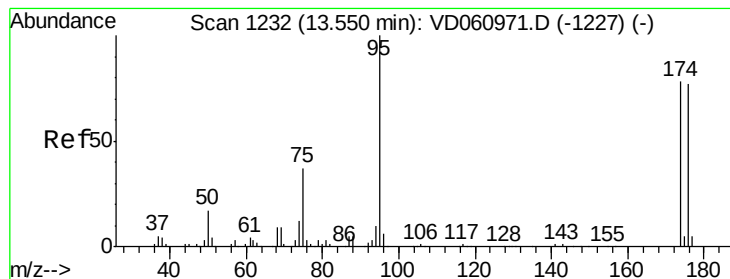
109 90.6 75.6 113.4



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.90 (108.60 to 109.60): V





#62

4-Bromofluorobenzene

Concen: 2.046 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

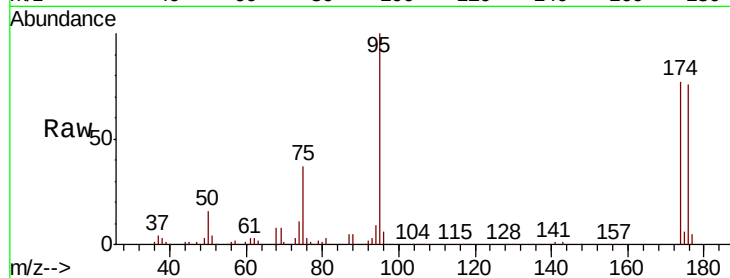
Tot Ion: 95 Resp: 485382

Ion Ratio Lower Upper

95 100

174 76.5 0.0 155.6

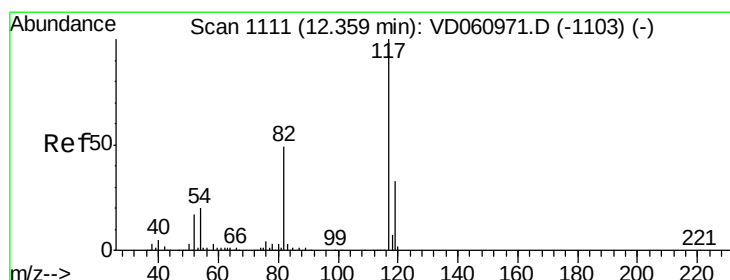
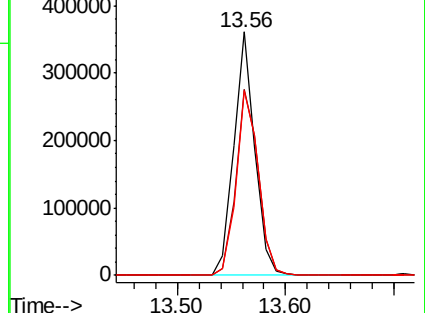
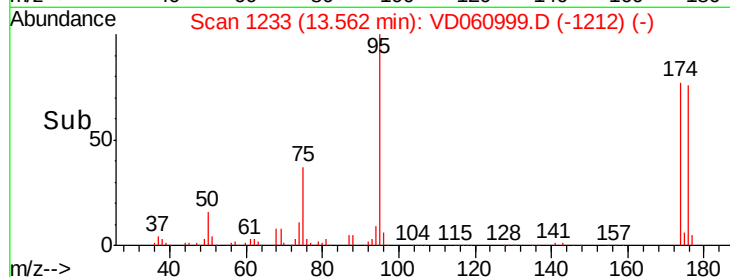
176 75.7 0.0 153.8



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 12.37 min Scan# 1112

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

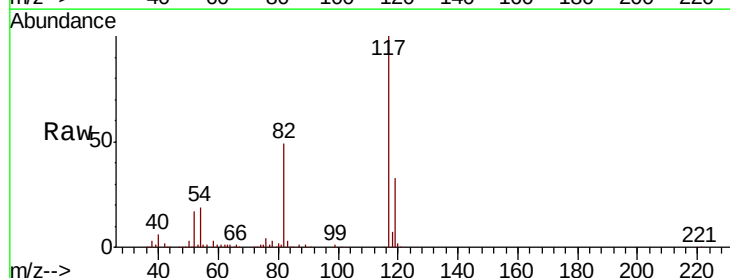
Tgt Ion: 117 Resp: 1114890

Ion Ratio Lower Upper

117 100

82 49.1 38.9 58.3

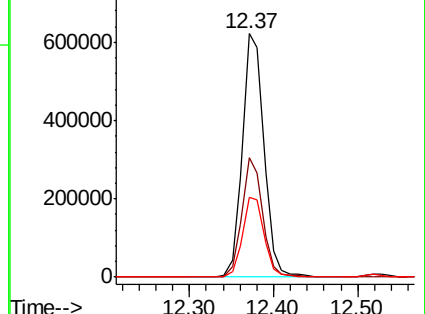
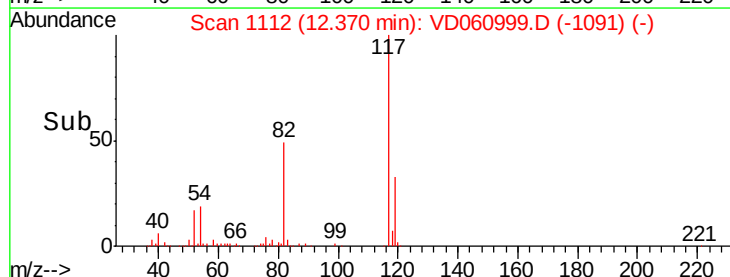
119 33.0 26.6 39.8

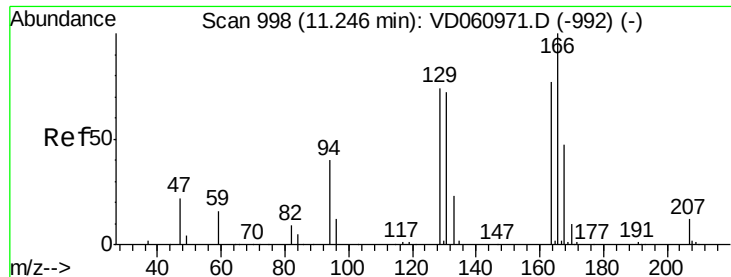


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

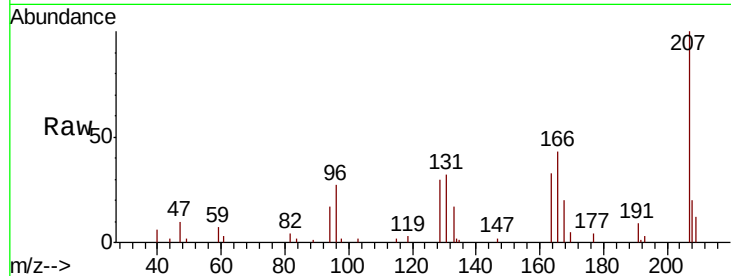




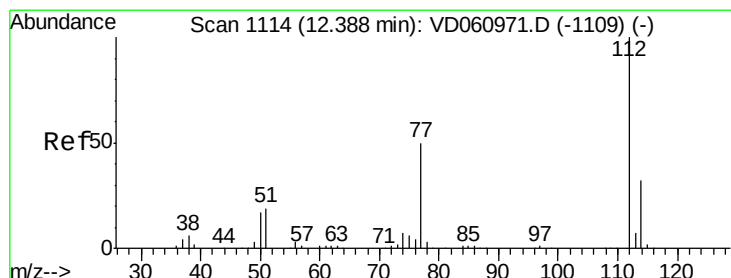
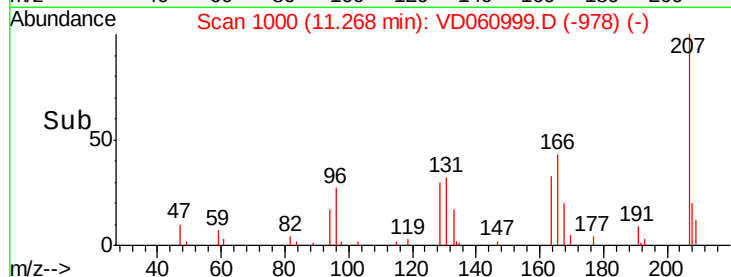
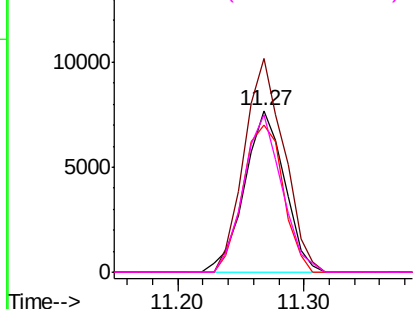
#64
Tetrachloroethene
Concen: 2.253 ug/l
RT: 11.27 min Scan# 1000
Delta R.T. 0.02 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:164 Resp: 16956
Ion Ratio Lower Upper
164 100
166 132.0 103.4 155.0
129 90.7 76.9 115.3
131 97.0 74.4 111.6

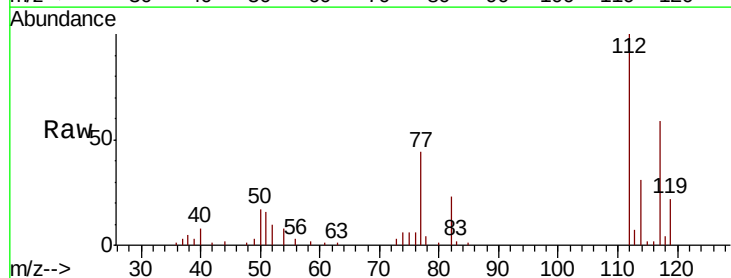


Abundance Ion 163.85 (163.55 to 164.55): V
Ion 165.85 (165.55 to 166.55): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

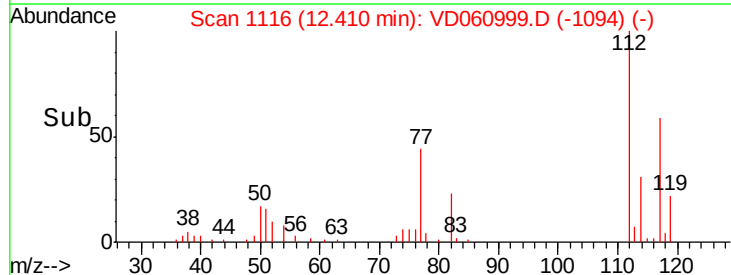
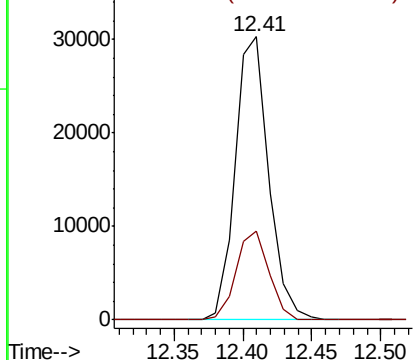


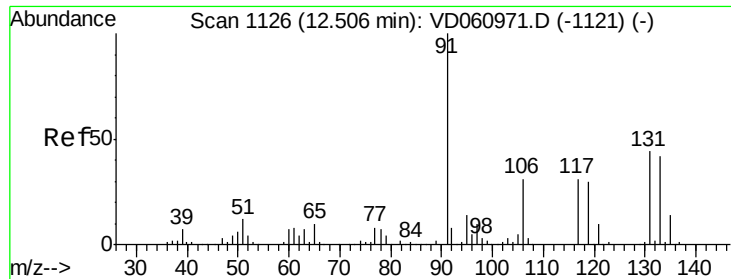
#65
Chlorobenzene
Concen: 2.348 ug/l
RT: 12.41 min Scan# 1116
Delta R.T. 0.02 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Tgt Ion:112 Resp: 51309
Ion Ratio Lower Upper
112 100
114 31.4 26.0 39.0



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 114.00 (113.70 to 114.70): V

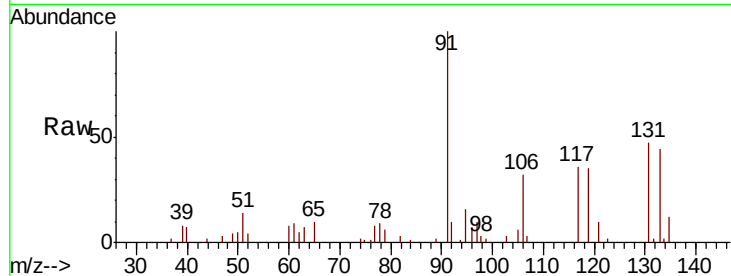




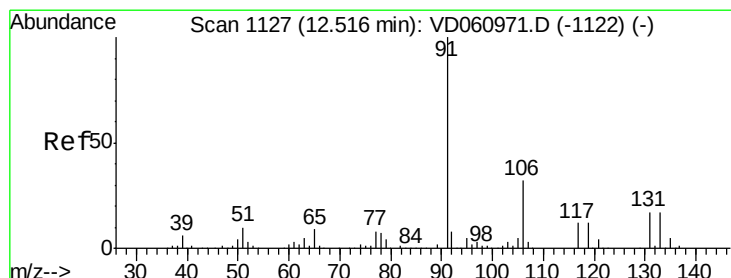
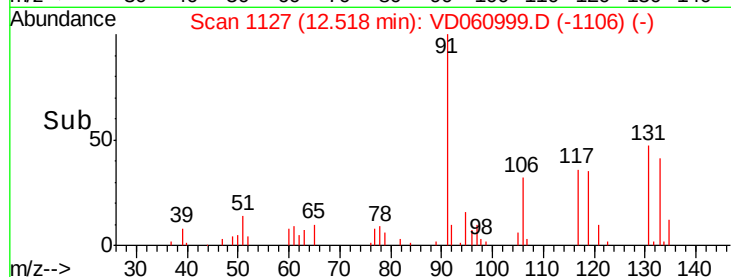
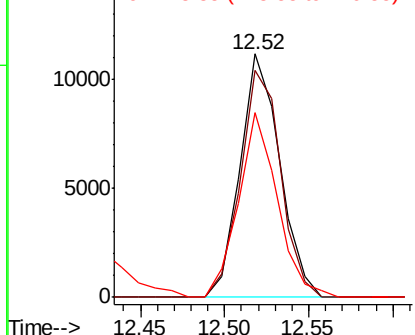
#66
 1,1,1,2-Tetrachloroethane
 Concen: 2.336 ug/l
 RT: 12.52 min Scan# 1127
 Delta R.T. 0.01 min
 Lab File: VD060999.D
 Acq: 11 Mar 2019 12:40

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion:131 Resp: 18197
 Ion Ratio Lower Upper
 131 100
 133 93.4 47.8 143.3
 119 75.6 34.3 102.9

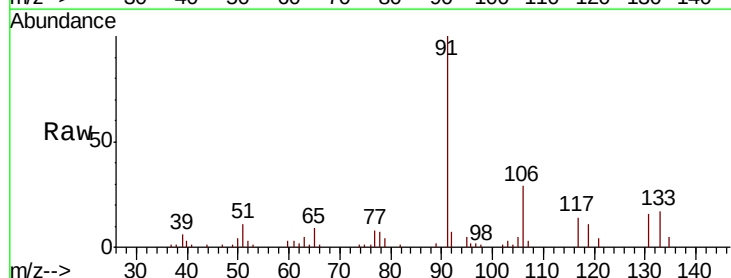


Abundance Ion 130.90 (130.60 to 131.60): V
 Ion 132.90 (132.60 to 133.60): V
 Ion 118.85 (118.55 to 119.55): V

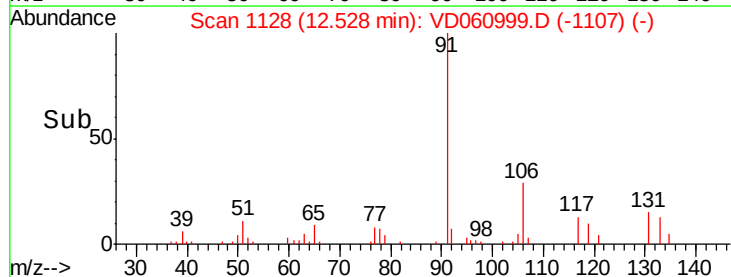
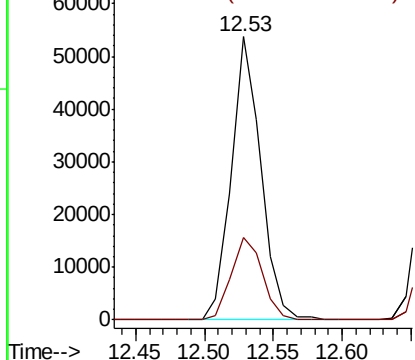


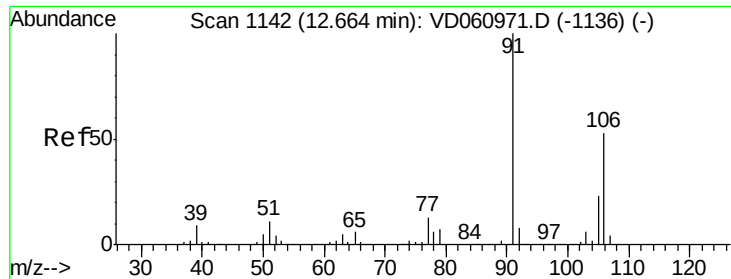
#67
 Ethyl Benzene
 Concen: 2.460 ug/l
 RT: 12.53 min Scan# 1128
 Delta R.T. 0.01 min
 Lab File: VD060999.D
 Acq: 11 Mar 2019 12:40

Tgt Ion: 91 Resp: 80037
 Ion Ratio Lower Upper
 91 100
 106 29.2 25.7 38.5



Abundance Ion 91.00 (90.70 to 91.70): V
 Ion 106.05 (105.75 to 106.75): V

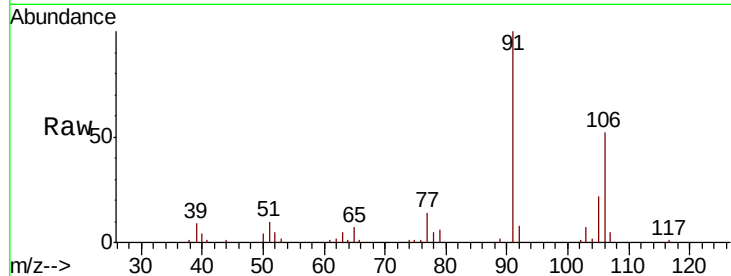




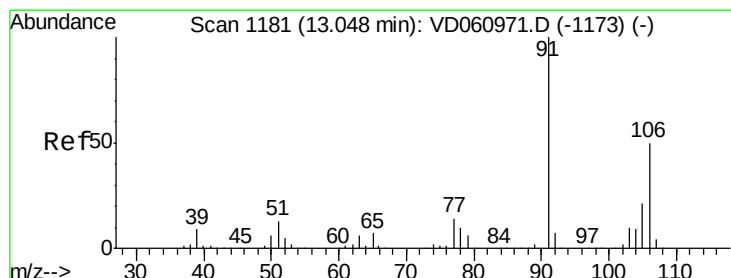
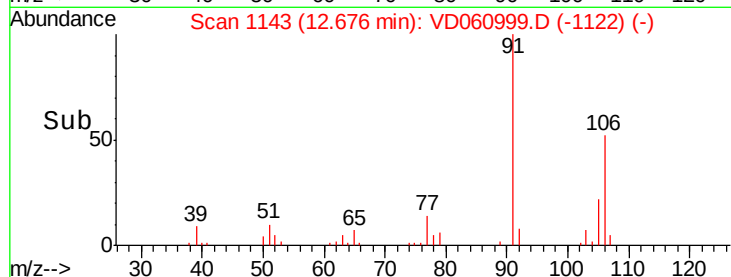
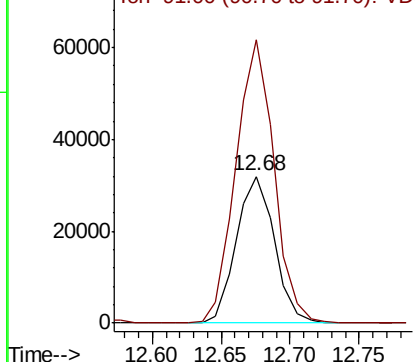
#68
m/p-Xylenes
Concen: 4.807 ug/l
RT: 12.68 min Scan# 1143
Delta R.T. 0.01 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:106 Resp: 61391
Ion Ratio Lower Upper
106 100
91 192.8 152.0 228.0

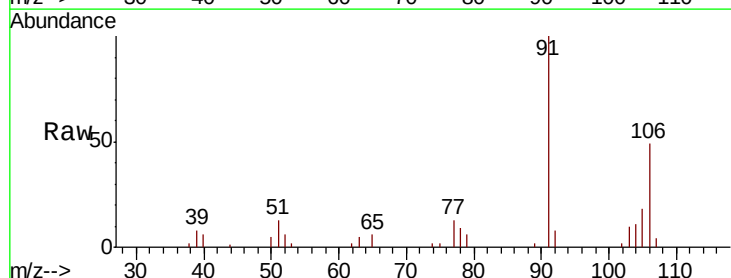


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

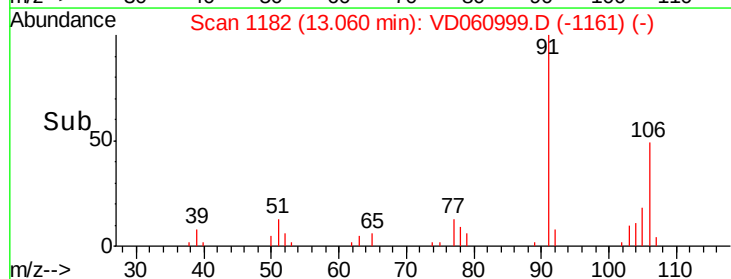
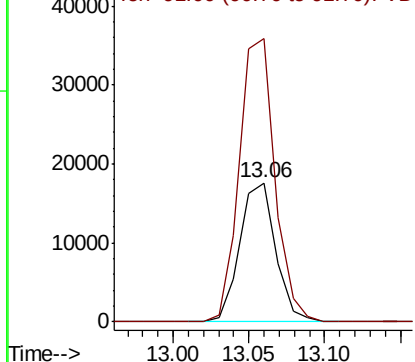


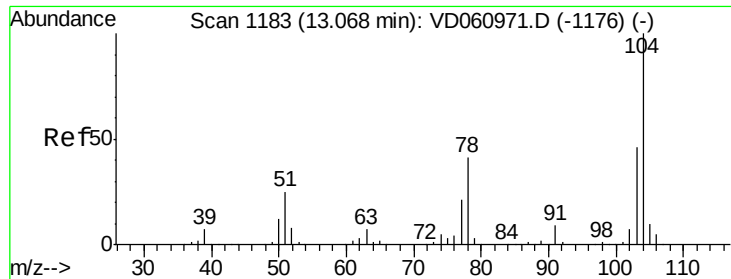
#69
o-Xylene
Concen: 2.306 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. 0.01 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Tgt Ion:106 Resp: 28954
Ion Ratio Lower Upper
106 100
91 203.9 99.8 299.3



Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): VDC

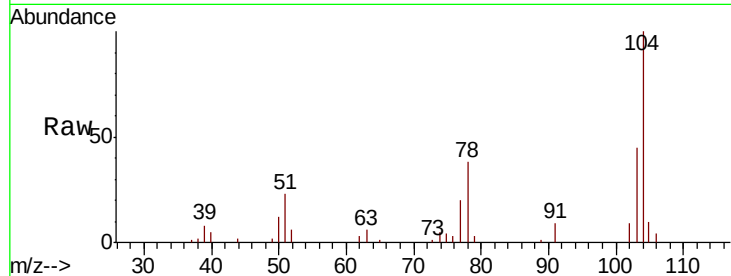




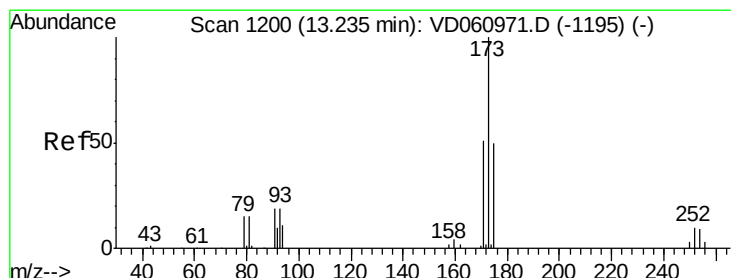
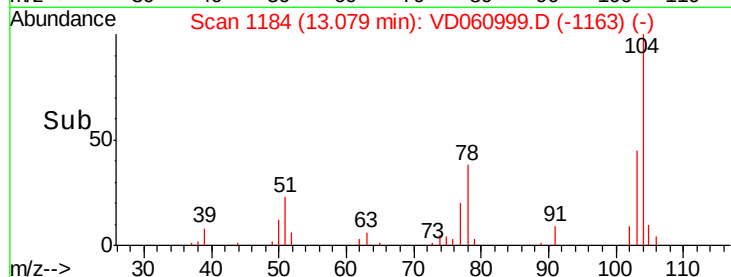
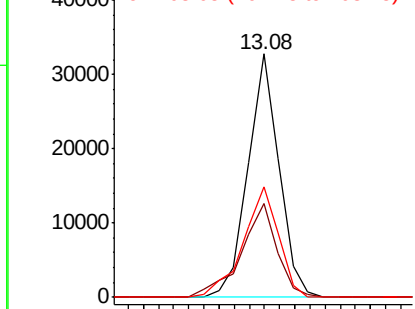
#70
Stvrene
Concen: 2.291 ug/l
RT: 13.08 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:104 Resp: 46956
Ion Ratio Lower Upper
104 100
78 38.5 33.0 49.4
103 45.2 37.1 55.7

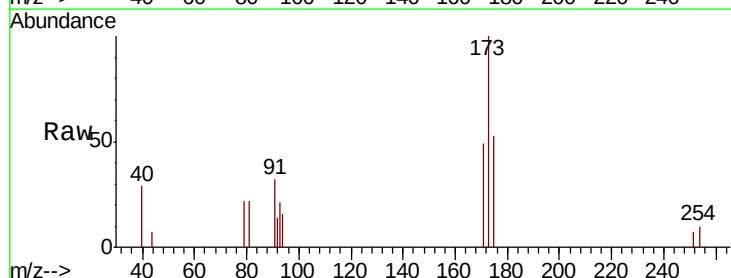


Abundance Ion 104.05 (103.75 to 104.75): V
Ion 77.95 (77.65 to 78.65): V
Ion 103.05 (102.75 to 103.75): V

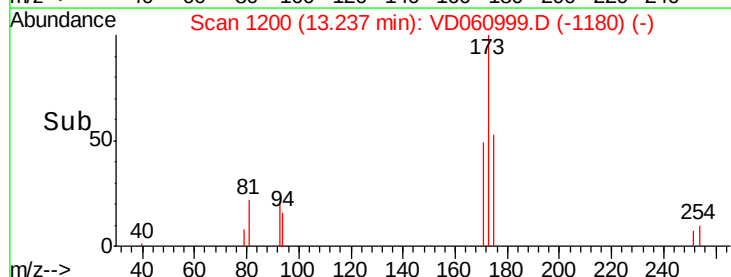
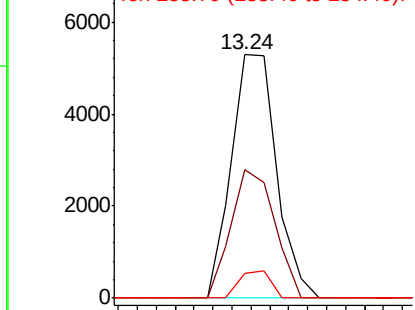


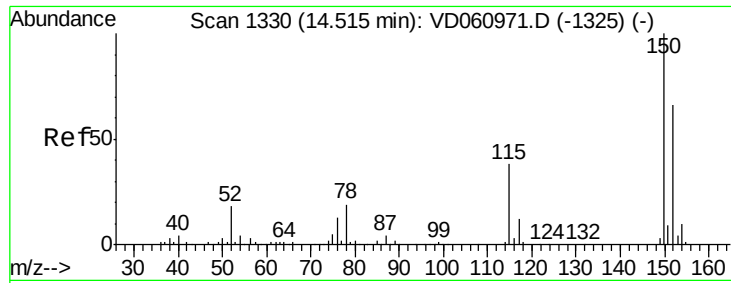
#71
Bromoform
Concen: 1.736 ug/l
RT: 13.24 min Scan# 1200
Delta R.T. 0.00 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Tgt Ion:173 Resp: 8723
Ion Ratio Lower Upper
173 100
175 53.0 24.9 74.8
254 10.4 7.3 10.9



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



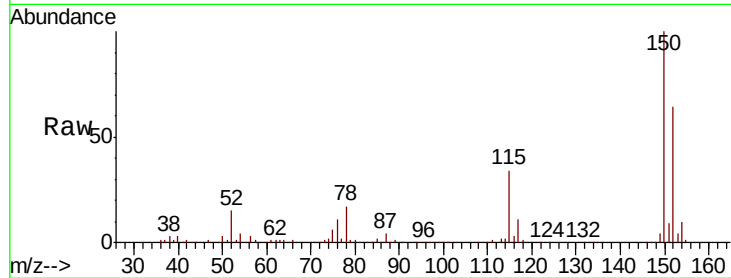


#72

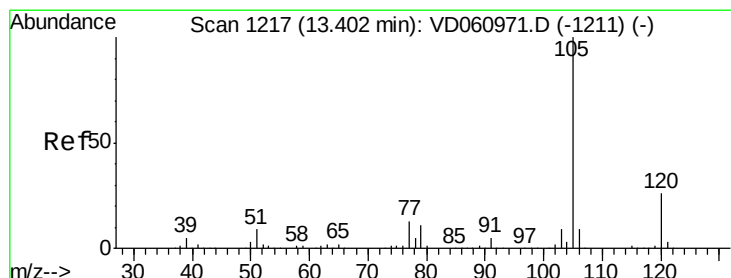
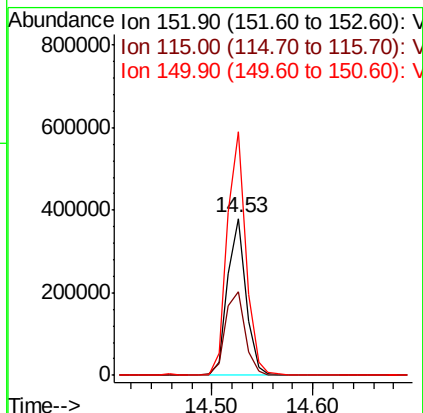
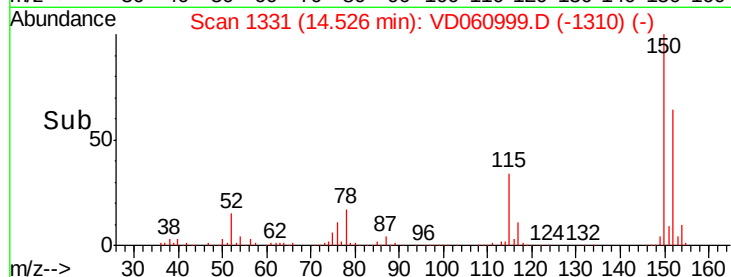
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.53 min Scan# 1331
Delta R.T. 0.01 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:152 Resp: 484102
Ion Ratio Lower Upper
152 100
115 53.3 28.6 85.9
150 155.2 0.0 310.6



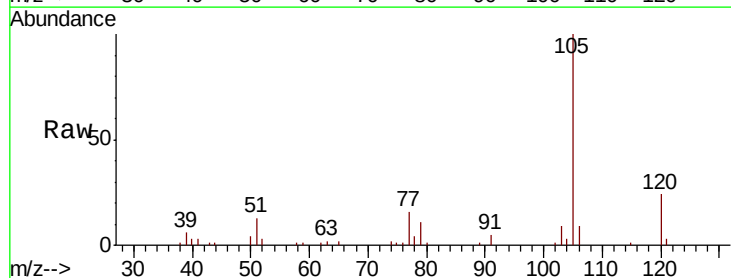
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 115.00 (114.70 to 115.70): V
Ion 149.90 (149.60 to 150.60): V



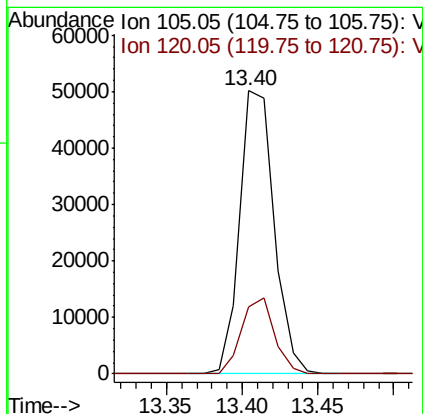
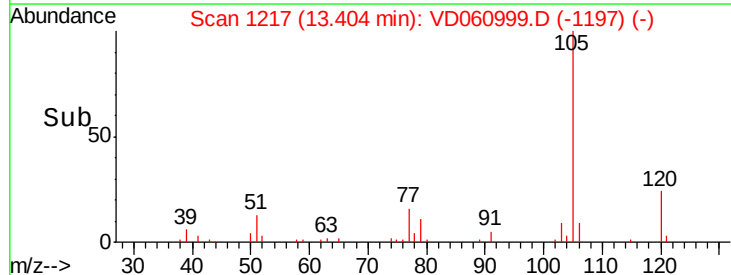
#73

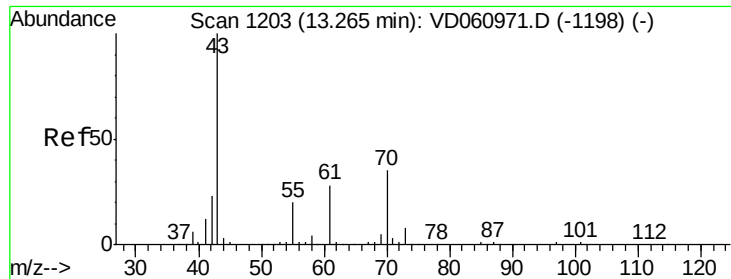
Isopropylbenzene
Concen: 2.279 ug/l
RT: 13.40 min Scan# 1217
Delta R.T. 0.00 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Tgt Ion:105 Resp: 79524
Ion Ratio Lower Upper
105 100
120 23.6 12.8 38.4



Abundance Ion 105.05 (104.75 to 105.75): V
Ion 120.05 (119.75 to 120.75): V





#74

N-amvl acetate

Concen: 1.926 ug/l

RT: 13.28 min Scan# 1204

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 43 Resp: 18922

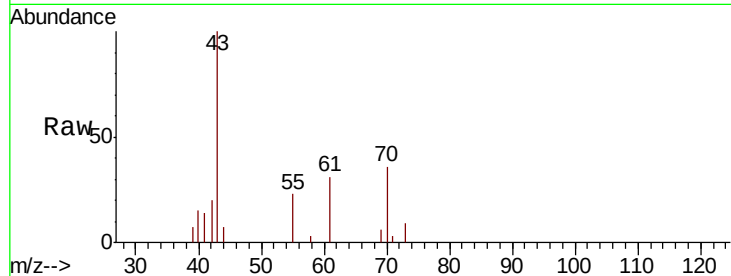
Ion Ratio Lower Upper

43 100

70 36.2 27.7 41.5

55 22.6 16.2 24.2

61 31.3 22.3 33.5

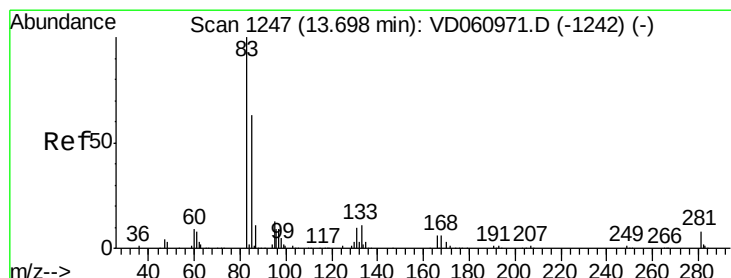
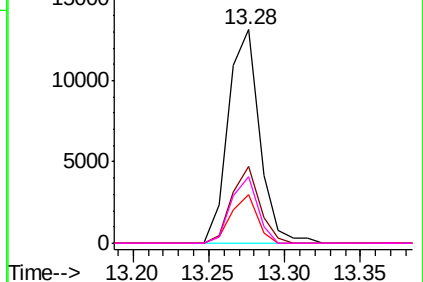
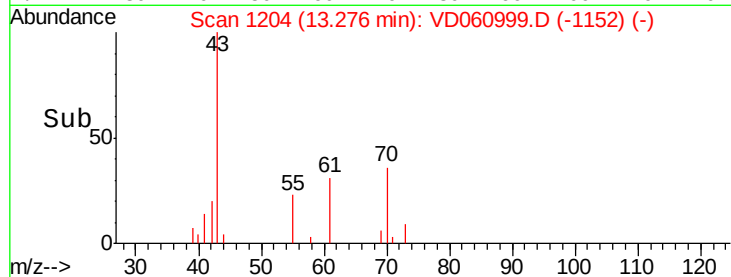


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

Ion 60.95 (60.65 to 61.65): VDC



#75

1,1,2,2-Tetrachloroethane

Concen: 2.122 ug/l

RT: 13.71 min Scan# 1248

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

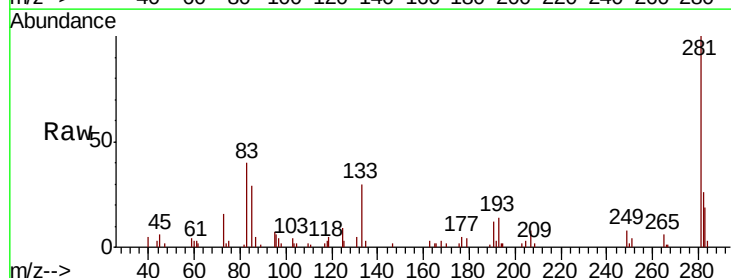
Tgt Ion: 83 Resp: 14444

Ion Ratio Lower Upper

83 100

131 13.6 5.1 15.3

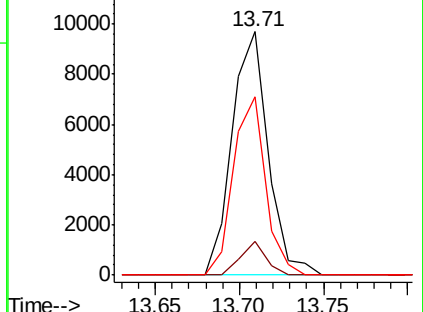
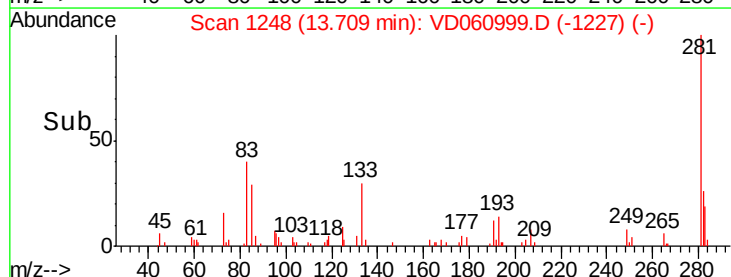
85 73.4 31.5 94.5

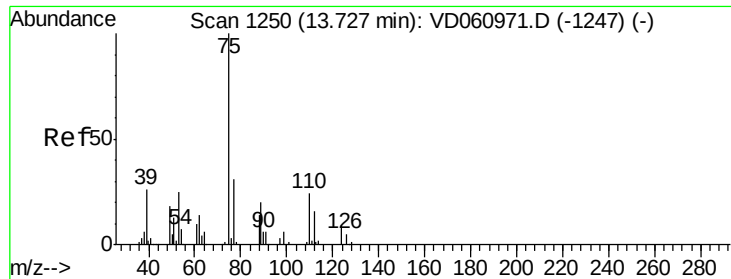


Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 130.90 (130.60 to 131.60): V

Ion 84.95 (84.65 to 85.65): VDC

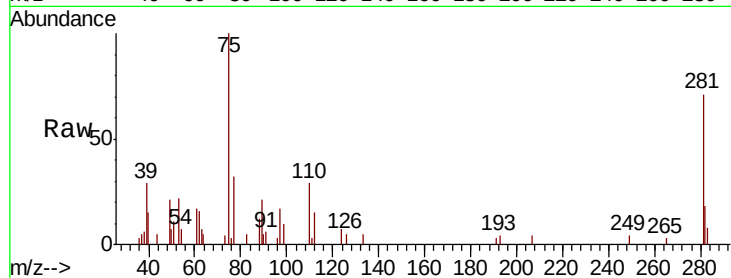




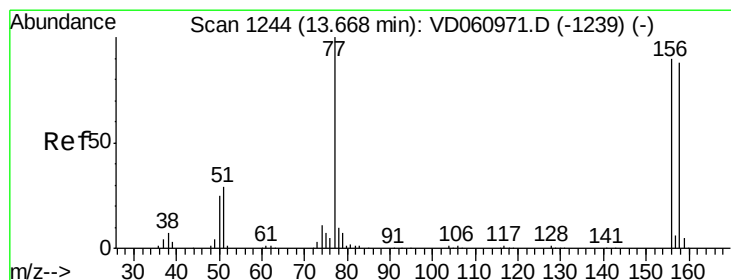
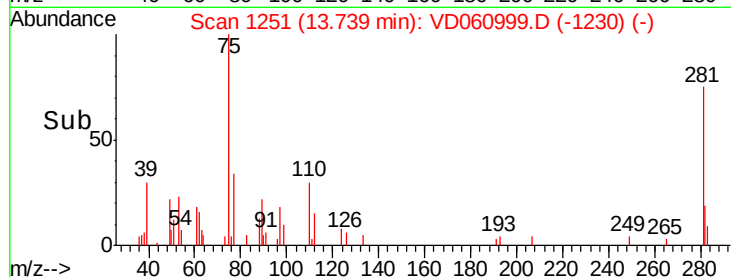
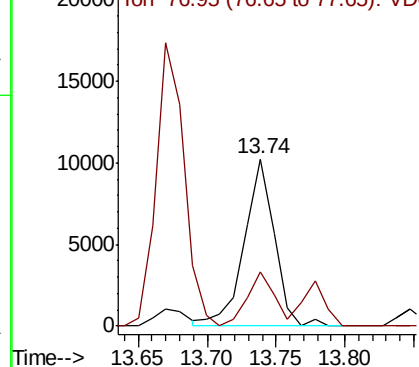
#76
 1,2,3-Trichloropropane
 Concen: 2.262 ug/l
 RT: 13.74 min Scan# 1251
 Delta R.T. 0.01 min
 Lab File: VD060999.D
 Acq: 11 Mar 2019 12:40

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 75 Resp: 15756
 Ion Ratio Lower Upper
 75 100
 77 32.4 16.6 49.7

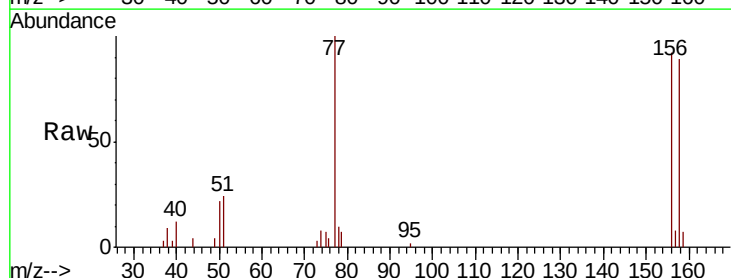


Abundance Ion 75.00 (74.70 to 75.70): VDC
 Ion 76.95 (76.65 to 77.65): VDC

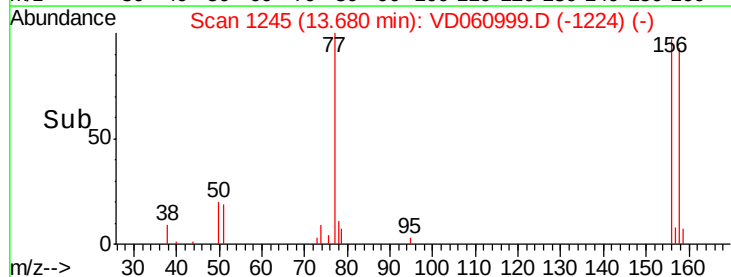
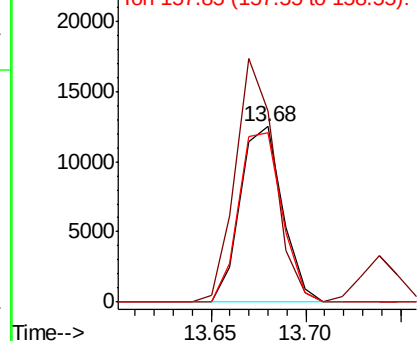


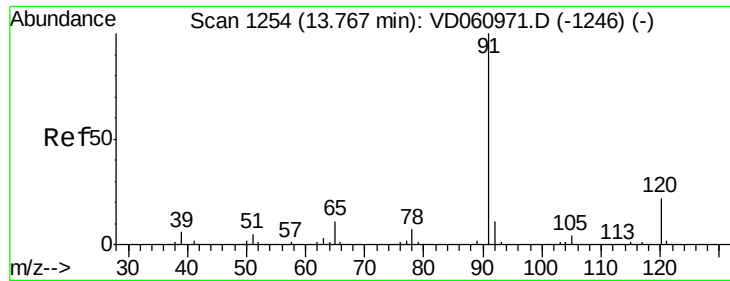
#77
 Bromobenzene
 Concen: 2.165 ug/l
 RT: 13.68 min Scan# 1245
 Delta R.T. 0.01 min
 Lab File: VD060999.D
 Acq: 11 Mar 2019 12:40

Tgt Ion: 156 Resp: 19279
 Ion Ratio Lower Upper
 156 100
 77 108.9 55.5 166.7
 158 96.4 49.0 147.0



Abundance Ion 155.90 (155.60 to 156.60): VDC
 Ion 76.95 (76.65 to 77.65): VDC
 Ion 157.85 (157.55 to 158.55): VDC





#78

n-propylbenzene

Concen: 2.387 ug/l

RT: 13.78 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

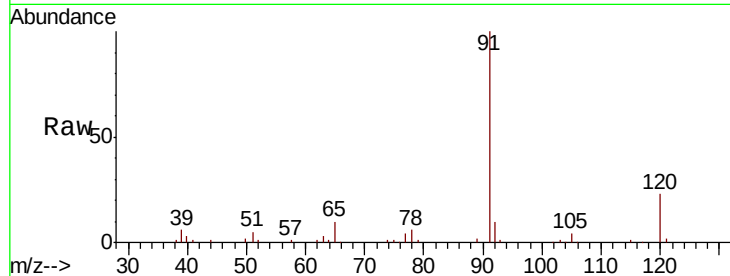
MDL-MDL-SOIL-03-QT1-2019

Tot Ion: 91 Resp: 97499

Ion Ratio Lower Upper

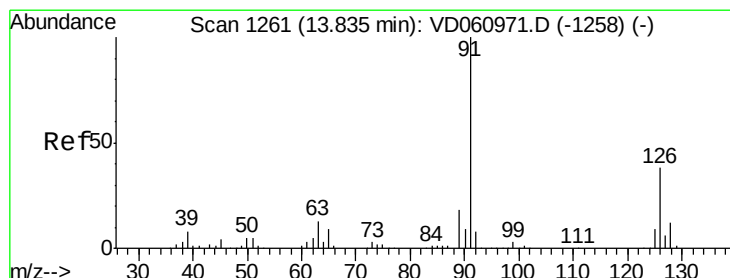
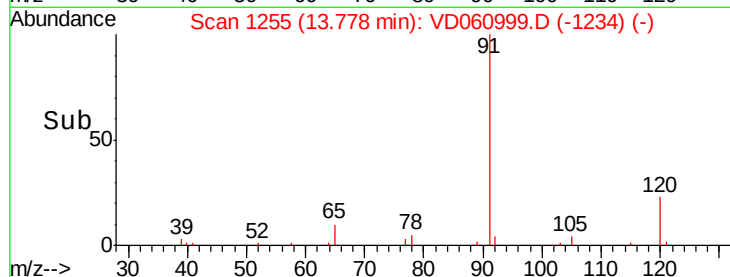
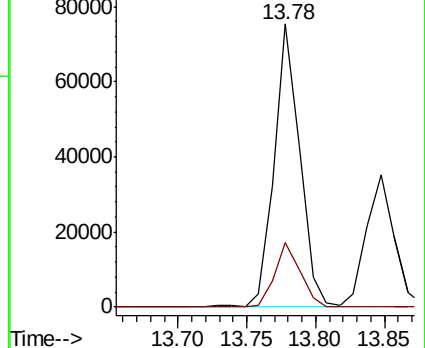
91 100

120 22.8 10.8 32.3



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 120.05 (119.75 to 120.75): VDC



#79

2-Chlorotoluene

Concen: 2.211 ug/l

RT: 13.85 min Scan# 1262

Delta R.T. 0.01 min

Lab File: VD060999.D

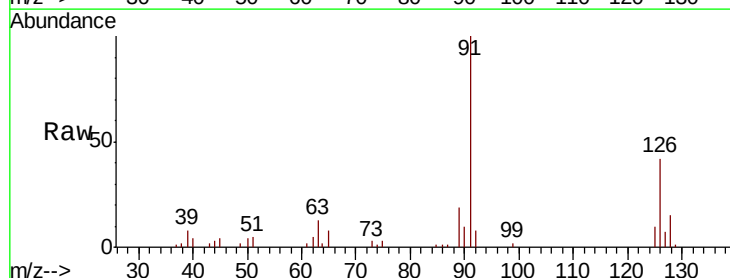
Acq: 11 Mar 2019 12:40

Tgt Ion: 91 Resp: 49711

Ion Ratio Lower Upper

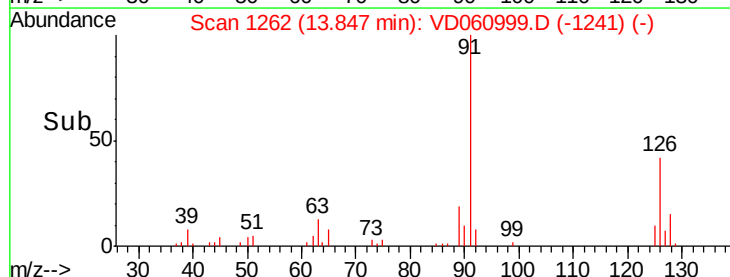
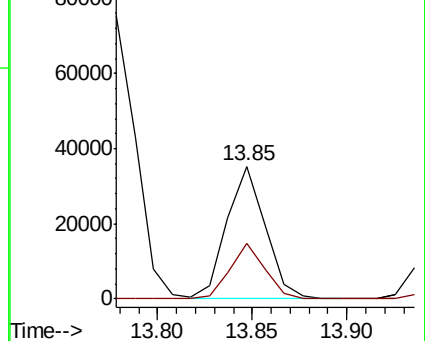
91 100

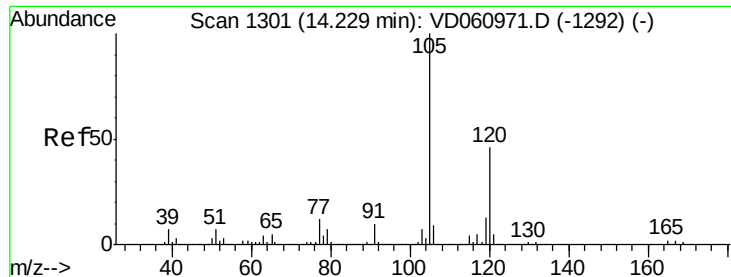
126 42.3 18.6 55.6



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): VDC





#80

1,3,5-Trimethylbenzene

Concen: 2.376 ug/l

RT: 14.24 min Scan# 1302

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

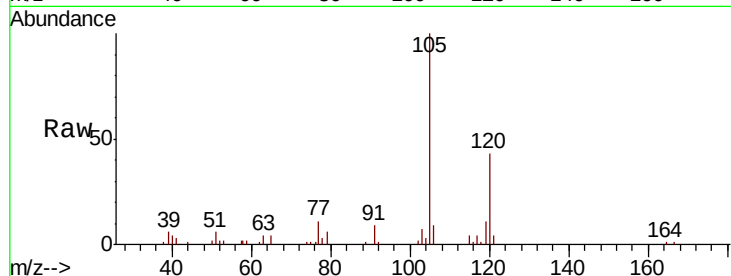
MDL-MDL-SOIL-03-QT1-2019

Tot Ion:105 Resp: 62924

Ion Ratio Lower Upper

105 100

120 42.8 22.9 68.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.05 (119.75 to 120.75): V

60000

50000

40000

30000

20000

10000

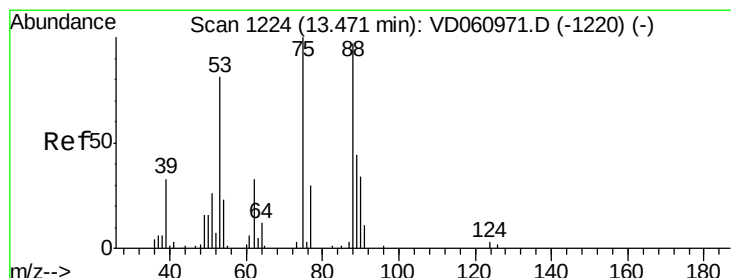
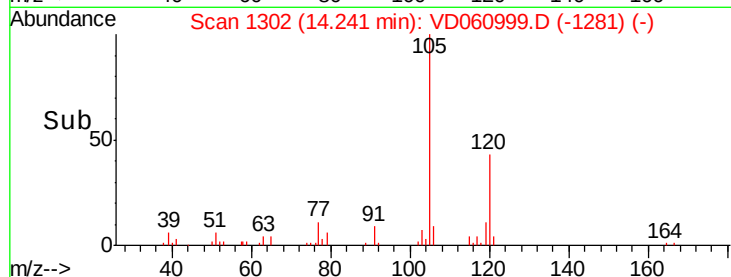
0

14.20

14.25

14.30

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 86.171 ug/l

RT: 13.56 min Scan# 1233

Delta R.T. 0.09 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

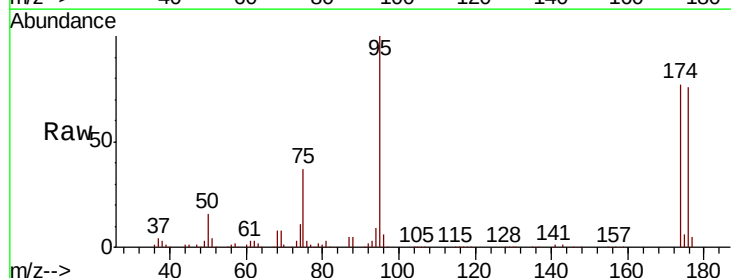
Tgt Ion: 75 Resp: 176937

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 34.8 52.2#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

150000

100000

50000

0

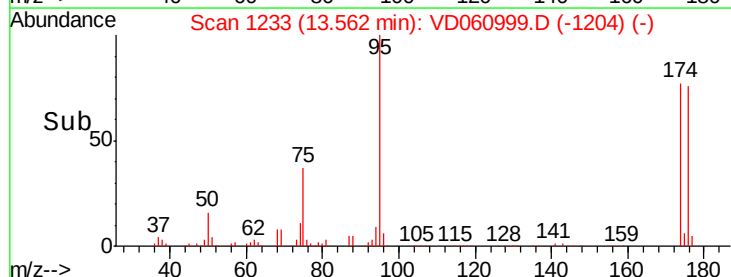
13.50

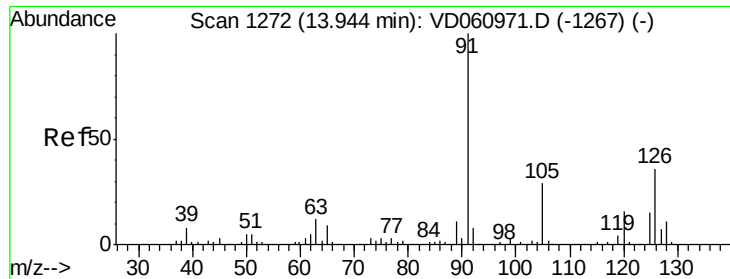
13.55

13.60

13.65

Time-->

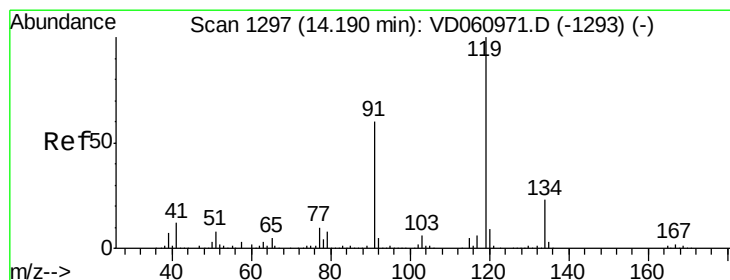
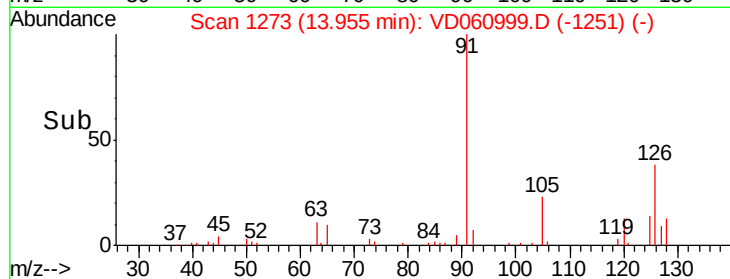
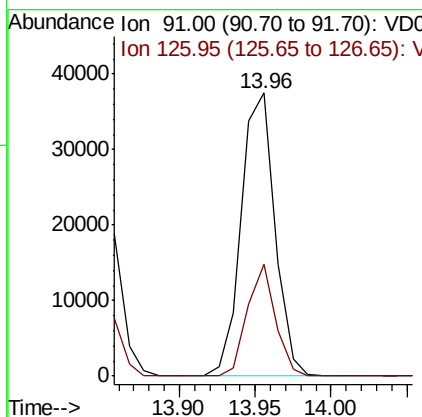
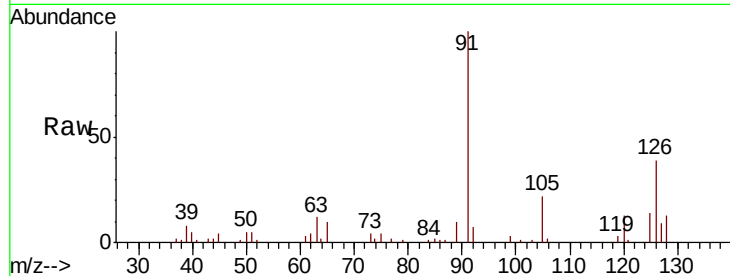




#82
4-Chlorotoluene
Concen: 2.183 ug/l
RT: 13.96 min Scan# 1273
Delta R.T. 0.01 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

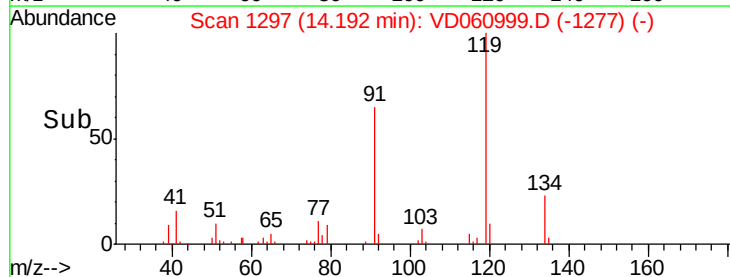
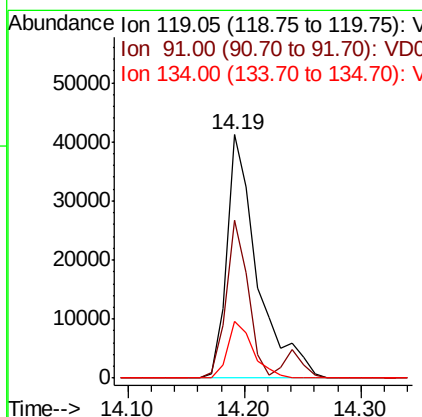
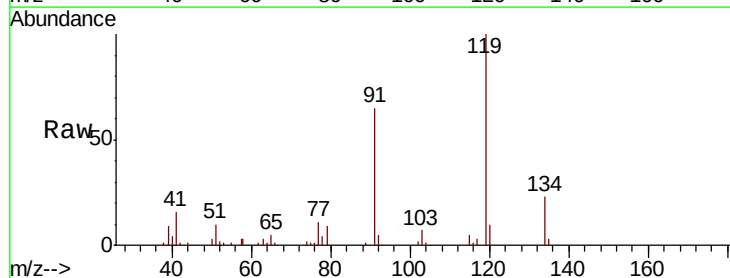
Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

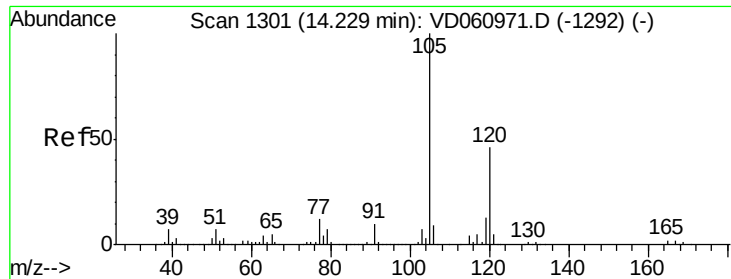
Tot Ion: 91 Resp: 58019
Ion Ratio Lower Upper
91 100
126 39.3 18.0 54.0



#83
tert-Butylbenzene
Concen: 2.592 ug/l
RT: 14.19 min Scan# 1297
Delta R.T. 0.00 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Tgt Ion: 119 Resp: 75122
Ion Ratio Lower Upper
119 100
91 64.9 30.1 90.3
134 23.5 11.6 34.7

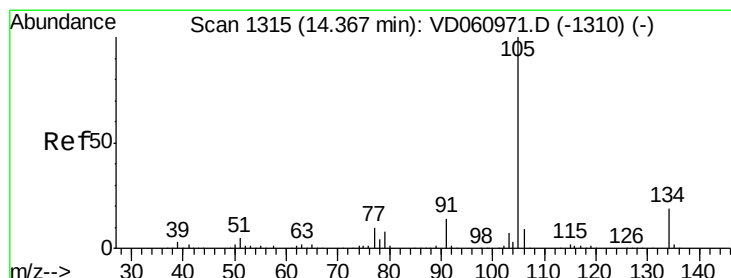
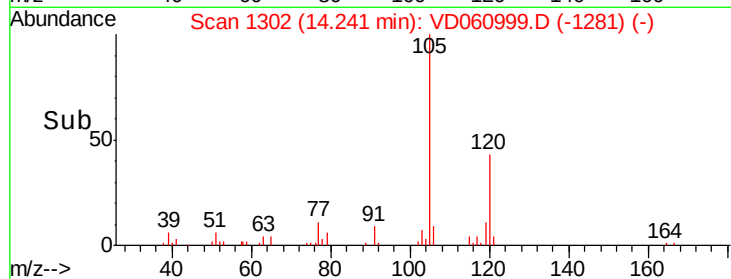
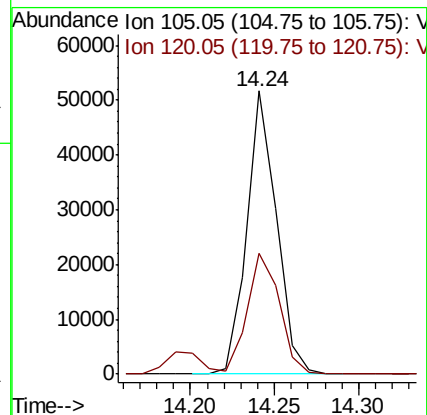
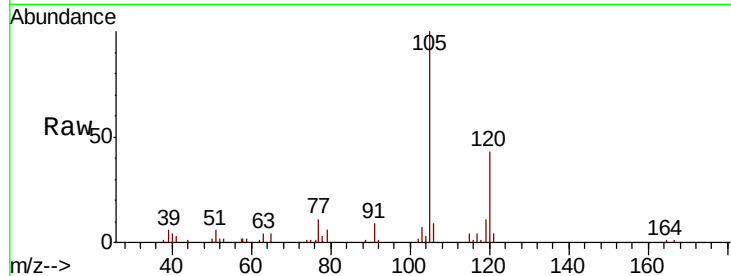




#84
1,2,4-Trimethylbenzene
Concen: 2.376 ug/l
RT: 14.24 min Scan# 1302
Delta R.T. 0.01 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

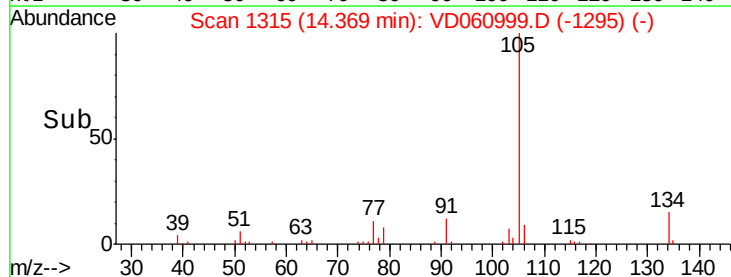
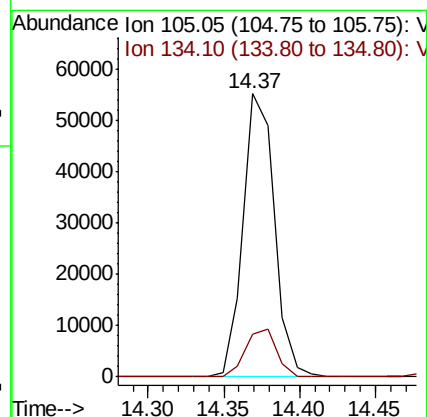
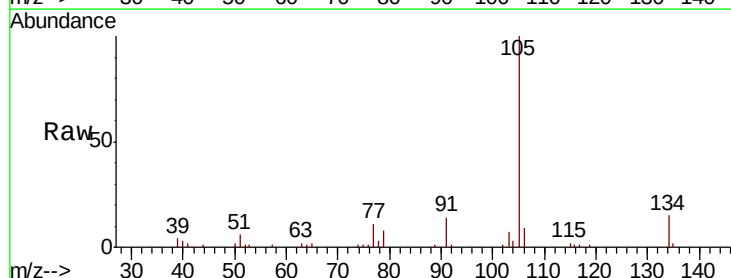
Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

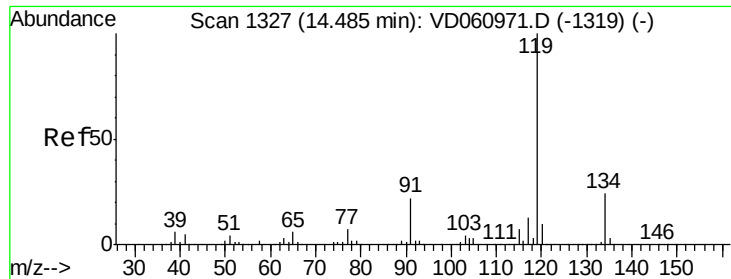
Tot Ion:105 Resp: 62924
Ion Ratio Lower Upper
105 100
120 42.8 22.9 68.5



#85
sec-Butylbenzene
Concen: 2.246 ug/l
RT: 14.37 min Scan# 1315
Delta R.T. 0.00 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Tgt Ion:105 Resp: 79473
Ion Ratio Lower Upper
105 100
134 15.3 9.4 28.2

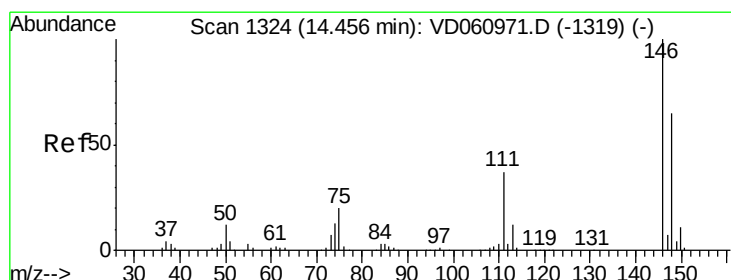
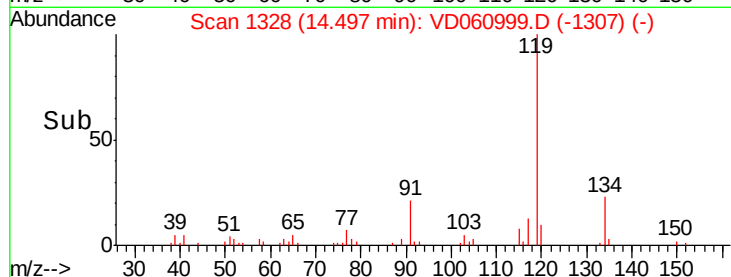
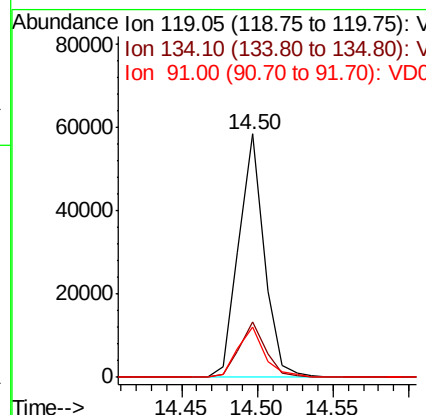
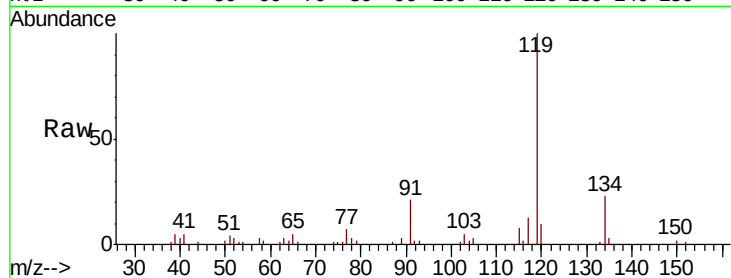




#86
 p-Isopropyltoluene
 Concen: 2.362 ug/l
 RT: 14.50 min Scan# 1328
 Delta R.T. 0.01 min
 Lab File: VD060999.D
 Acq: 11 Mar 2019 12:40

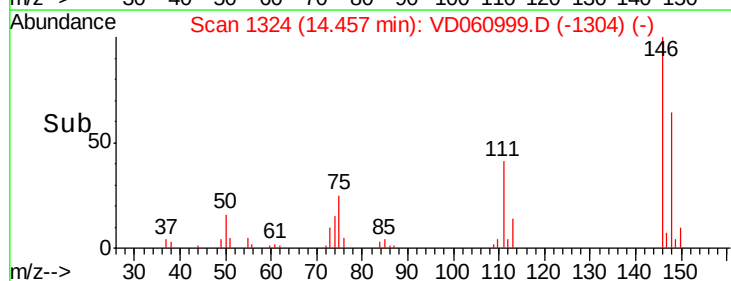
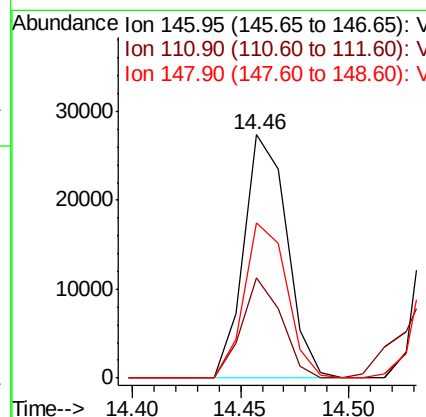
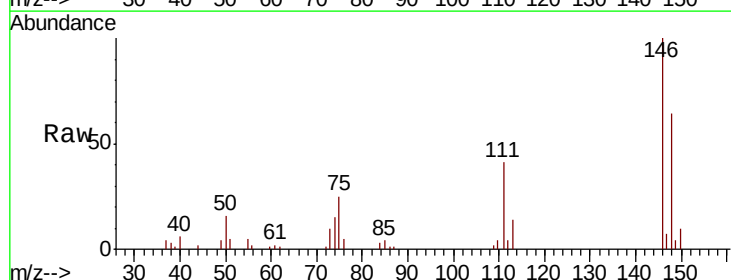
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

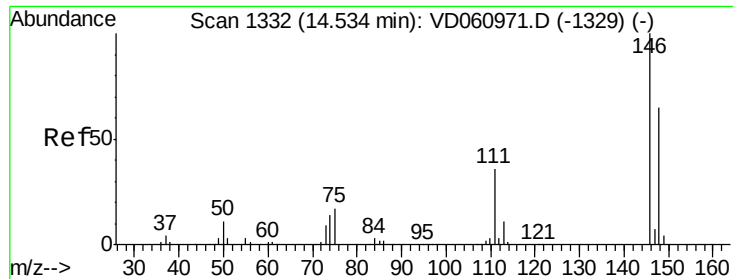
Tot Ion:119 Resp: 68317
 Ion Ratio Lower Upper
 119 100
 134 23.0 12.0 36.1
 91 20.6 11.2 33.6



#87
 1,3-Dichlorobenzene
 Concen: 2.382 ug/l
 RT: 14.46 min Scan# 1324
 Delta R.T. 0.00 min
 Lab File: VD060999.D
 Acq: 11 Mar 2019 12:40

Tgt Ion:146 Resp: 37877
 Ion Ratio Lower Upper
 146 100
 111 41.2 18.4 55.4
 148 63.5 32.5 97.4

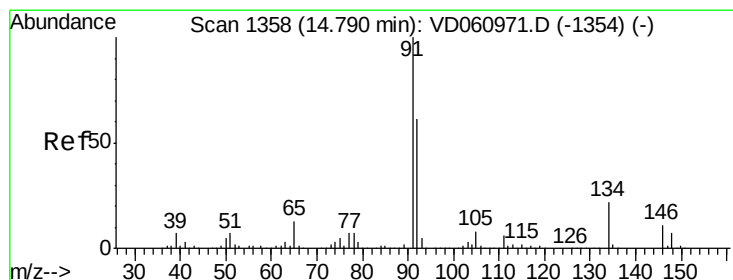
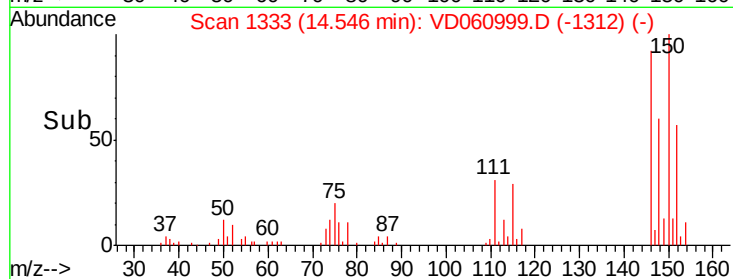
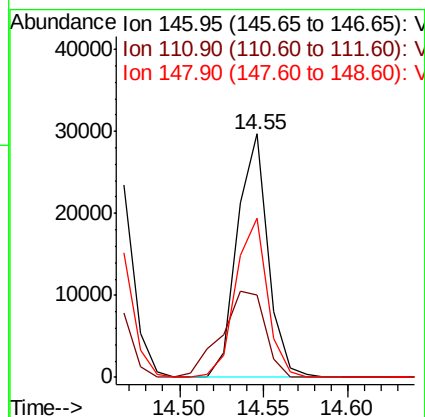
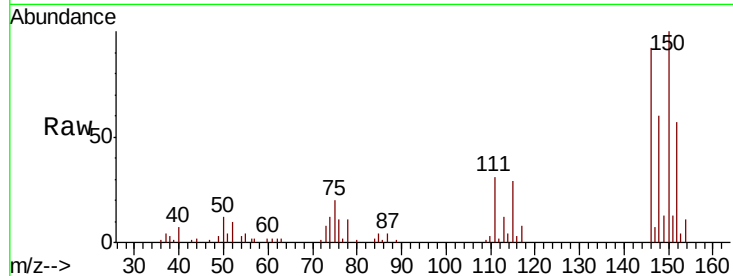




#88
 1,4-Dichlorobenzene
 Concen: 2.397 ug/l
 RT: 14.55 min Scan# 1333
 Delta R.T. 0.01 min
 Lab File: VD060999.D
 Acq: 11 Mar 2019 12:40

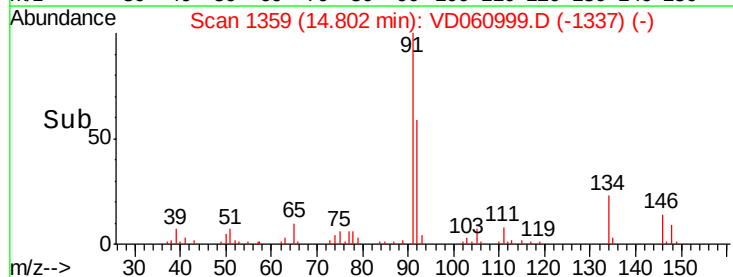
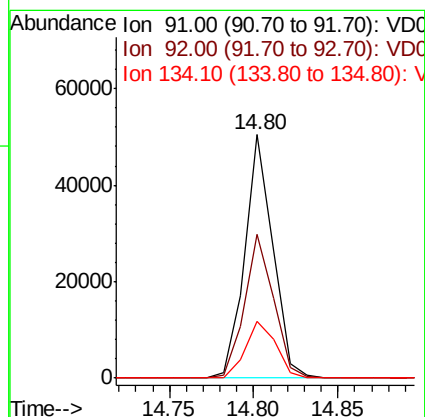
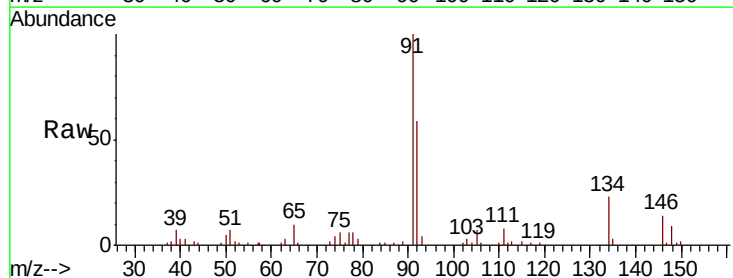
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

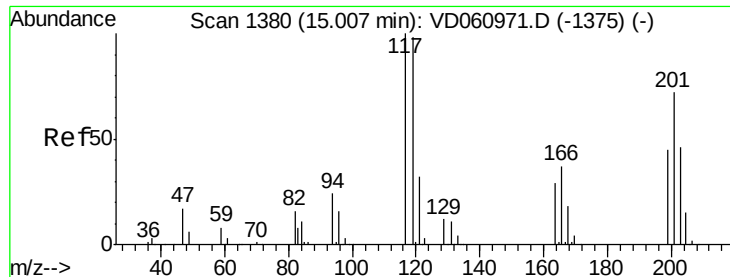
Tot Ion:146 Resp: 37455
 Ion Ratio Lower Upper
 146 100
 111 33.9 18.4 55.2
 148 65.5 32.5 97.5



#89
 n-Butylbenzene
 Concen: 2.095 ug/l
 RT: 14.80 min Scan# 1359
 Delta R.T. 0.01 min
 Lab File: VD060999.D
 Acq: 11 Mar 2019 12:40

Tgt Ion: 91 Resp: 58193
 Ion Ratio Lower Upper
 91 100
 92 59.2 30.6 91.8
 134 23.5 11.0 33.0

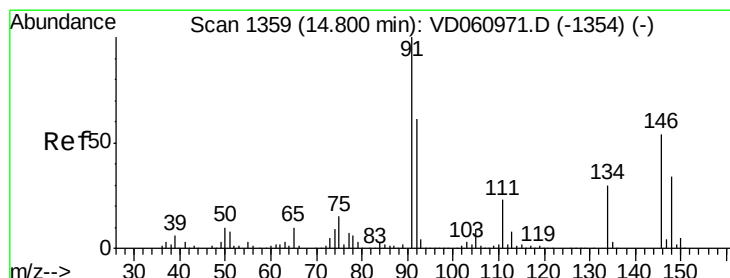
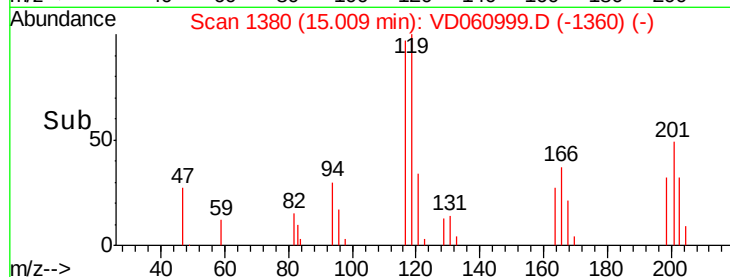
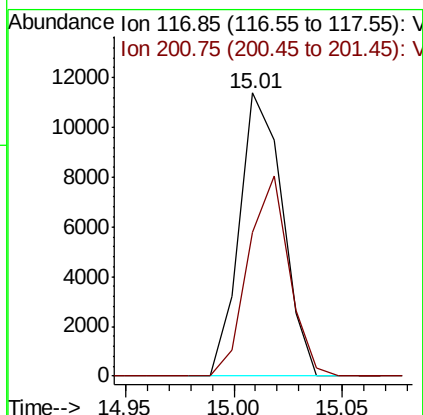
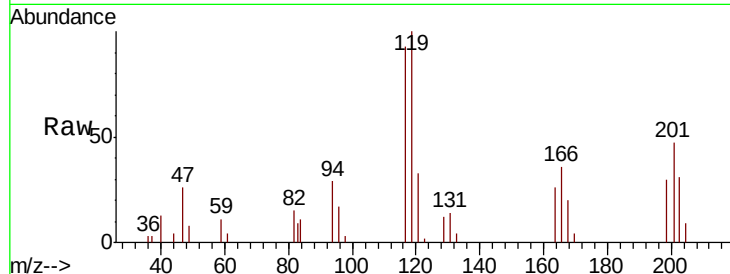




#90
Hexachloroethane
Concen: 1.923 ug/l
RT: 15.01 min Scan# 1380
Delta R.T. 0.00 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

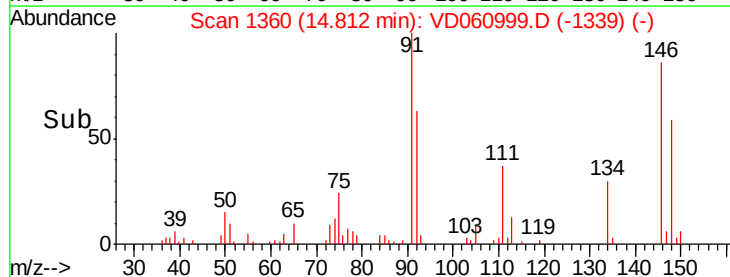
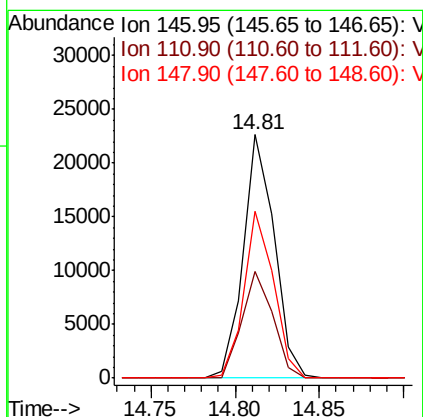
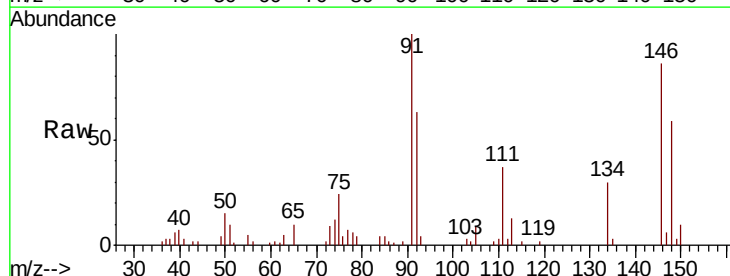
Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

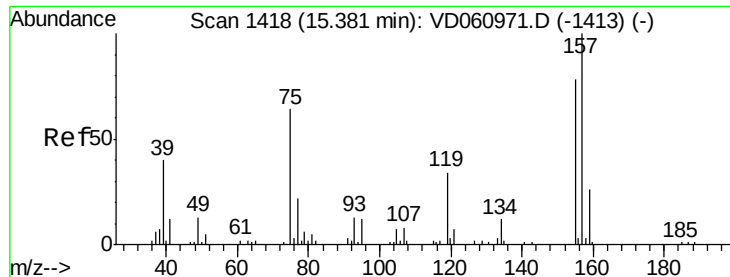
Tot Ion:117 Resp: 15707
Ion Ratio Lower Upper
117 100
201 50.7 36.2 108.6



#91
1,2-Dichlorobenzene
Concen: 2.185 ug/l
RT: 14.81 min Scan# 1360
Delta R.T. 0.01 min
Lab File: VD060999.D
Acq: 11 Mar 2019 12:40

Tgt Ion:146 Resp: 28969
Ion Ratio Lower Upper
146 100
111 43.6 21.5 64.5
148 68.3 30.9 92.8





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.693 ug/l

RT: 15.38 min Scan# 1418

Delta R.T. 0.00 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

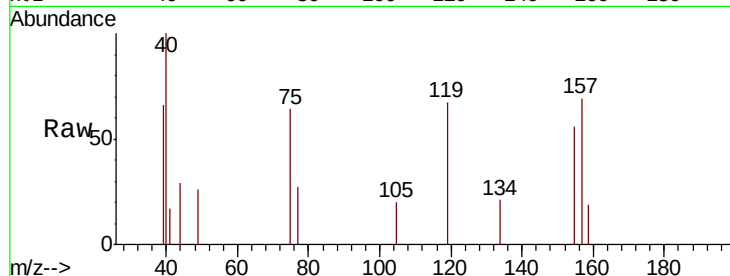
Tot Ion: 75 Resp: 1389

Ion Ratio Lower Upper

75 100

155 86.6 61.2 183.5

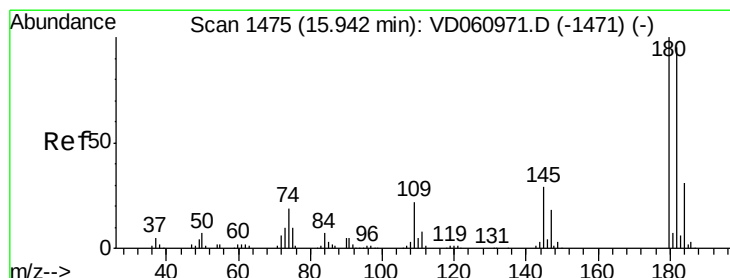
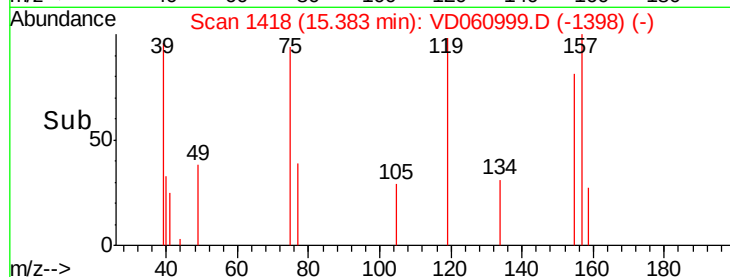
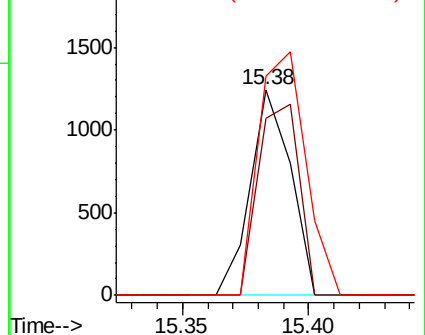
157 106.9 78.3 234.8



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 154.90 (154.60 to 155.60): V

Ion 156.85 (156.55 to 157.55): V



#93

1,2,4-Trichlorobenzene

Concen: 2.264 ug/l

RT: 15.95 min Scan# 1476

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

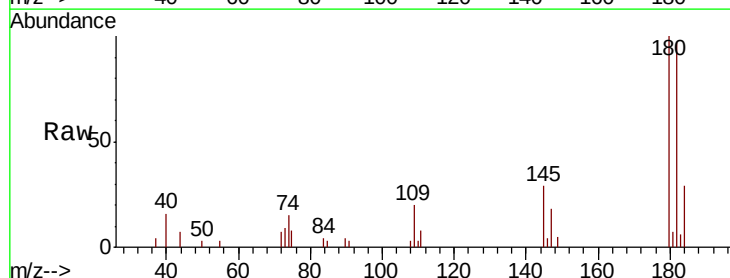
Tgt Ion:180 Resp: 13922

Ion Ratio Lower Upper

180 100

182 97.1 47.3 142.0

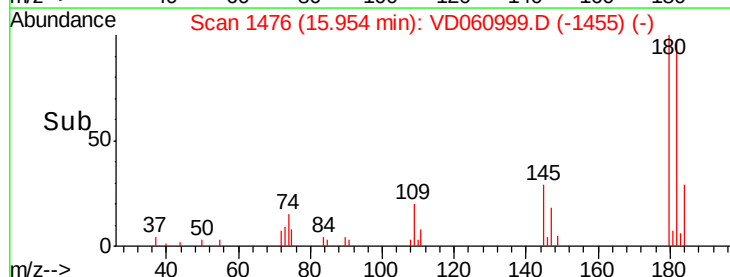
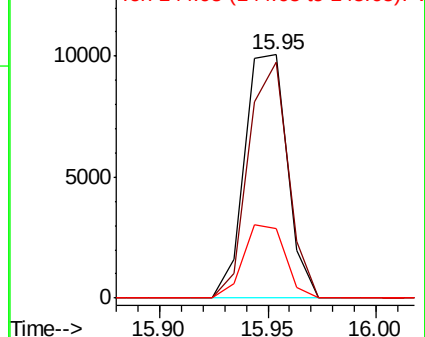
145 28.5 14.4 43.0

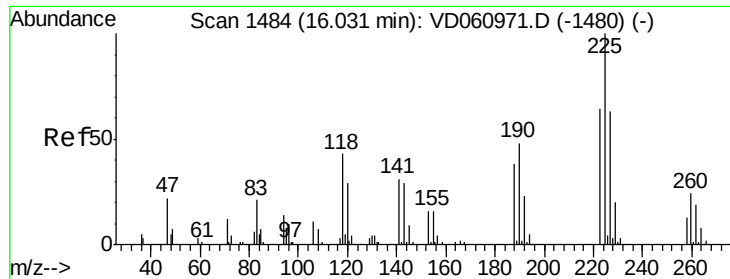


Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V





#94

Hexachlorobutadiene

Concen: 2.198 ug/l

RT: 16.04 min Scan# 1485

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

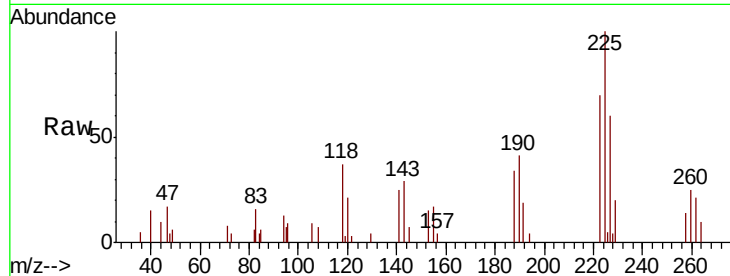
Tot Ion:225 Resp: 10224

Ion Ratio Lower Upper

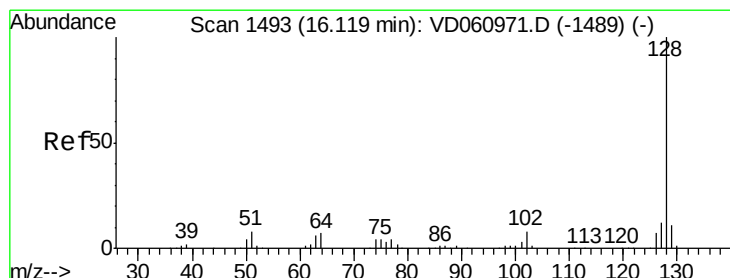
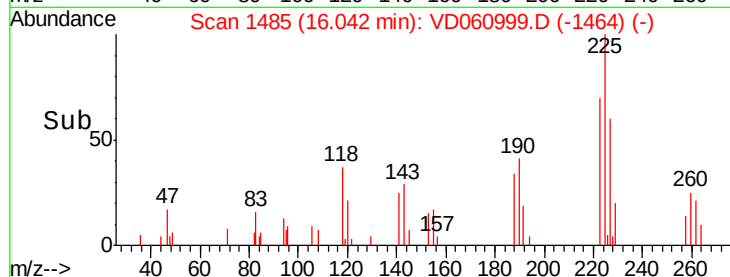
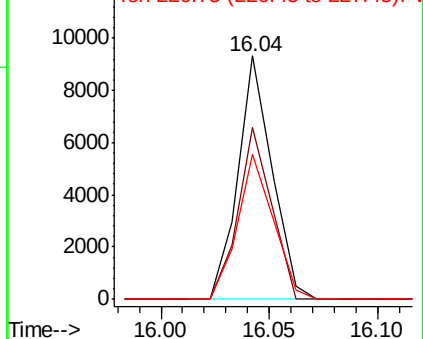
225 100

223 70.5 31.8 95.3

227 59.6 31.4 94.0



Abundance Ion 224.75 (224.45 to 225.45): V
Ion 222.75 (222.45 to 223.45): V
Ion 226.75 (226.45 to 227.45): V



#95

Naphthalene

Concen: 2.480 ug/l

RT: 16.13 min Scan# 1494

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

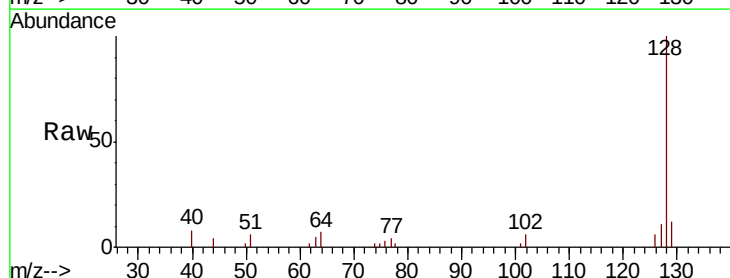
Tgt Ion:128 Resp: 23179

Ion Ratio Lower Upper

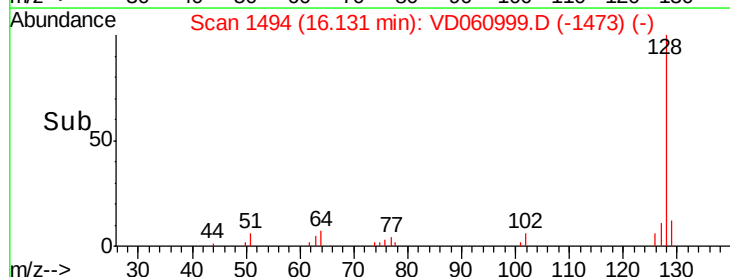
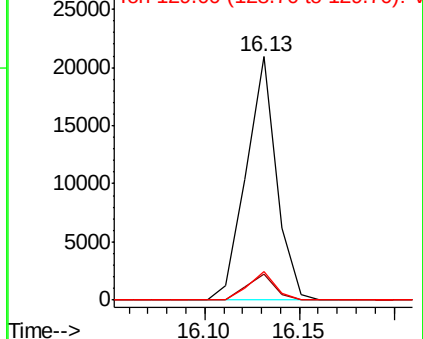
128 100

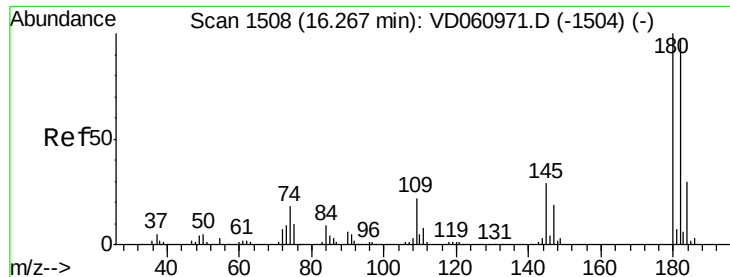
127 10.8 9.8 14.8

129 11.8 8.5 12.7



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 2.163 ug/l

RT: 16.28 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VD060999.D

Acq: 11 Mar 2019 12:40

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

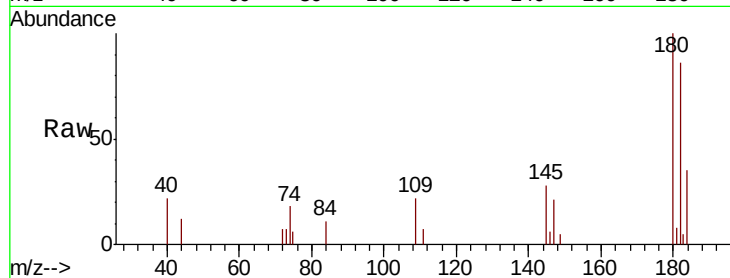
Tot Ion:180 Resp: 6570

Ion Ratio Lower Upper

180 100

182 86.0 48.6 145.8

145 27.9 14.3 42.9



Abundance Ion 179.85 (179.55 to 180.55): V

Ion 181.85 (181.55 to 182.55): V

Ion 144.95 (144.65 to 145.65): V

