

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050119\
 Data File : VD062101.D
 Acq On : 1 May 2019 14:27
 Operator : FY/SY
 Sample : K2241-03
 Misc : 5.00g/5mL/MSVOA D/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

Quant Time: May 02 07:54:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D042319S.M
 Quant Title : SW846 8260
 QLast Update : Thu May 02 07:48:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.02	168	582424	50.00	ug/l	-0.03
34) 1,4-Difluorobenzene	8.19	114	951403	50.00	ug/l	-0.03
63) Chlorobenzene-d5	12.35	117	775002	50.00	ug/l	-0.02
72) 1,4-Dichlorobenzene-d4	14.51	152	377509	50.00	ug/l	-0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.43	65	259987	57.03	ug/l	-0.03
Spiked Amount			Recovery	=	114.06%	
35) Dibromofluoromethane	6.90	113	380875	57.88	ug/l	-0.04
Spiked Amount			Recovery	=	115.76%	
50) Toluene-d8	10.38	98	904655	57.78	ug/l	-0.04
Spiked Amount			Recovery	=	115.56%	
62) 4-Bromofluorobenzene	13.54	95	332750	52.99	ug/l	-0.02
Spiked Amount			Recovery	=	105.98%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.57	85	16818	3.234	ug/l	100
3) Chloromethane	1.75	50	12051	2.726	ug/l #	85
4) Vinyl Chloride	1.85	62	11734	2.929	ug/l	95
5) Bromomethane	2.15	94	6036	5.290	ug/l	97
6) Chloroethane	2.27	64	4247	2.933	ug/l	99
7) Trichlorofluoromethane	2.52	101	18206	3.006	ug/l #	83
8) Diethyl Ether	2.85	74	3888	2.395	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.14	101	17982	3.223	ug/l	98
10) Methyl Iodide	3.29	142	17280	2.480	ug/l	90
11) Tert butyl alcohol	4.03	59	3823	14.844	ug/l #	76
12) 1,1-Dichloroethene	3.12	96	15058	3.172	ug/l #	73
13) Acrolein	3.02	56	3170	11.863	ug/l #	66
14) Allyl chloride	3.61	41	20354	3.140	ug/l #	87
15) Acrylonitrile	4.18	53	13047	16.360	ug/l	97
16) Acetone	3.20	43	16024	14.722	ug/l	92
17) Carbon Disulfide	3.36	76	47123	3.435	ug/l #	94
18) Methyl Acetate	3.62	43	10557	4.820	ug/l #	85
19) Methyl tert-butyl Ether	4.21	73	27955	2.968	ug/l	98
20) Methylene Chloride	3.80	84	19825	3.286	ug/l #	86
21) trans-1,2-Dichloroethene	4.19	96	16534	3.036	ug/l	91
22) Diisopropyl ether	5.08	45	43992	2.907	ug/l	98
23) Vinyl Acetate	5.03	43	96224	12.208	ug/l	97
24) 1,1-Dichloroethane	4.95	63	25601	2.799	ug/l #	94
25) 2-Butanone	6.03	43	18368	13.919	ug/l	99
26) 2,2-Dichloropropane	6.00	77	22685	2.843	ug/l	90
27) cis-1,2-Dichloroethene	6.01	96	17220	2.779	ug/l	91
28) Bromochloromethane	6.40	49	10792	3.083	ug/l #	79
29) Tetrahydrofuran	6.42	42	9391	14.443	ug/l	88
30) Chloroform	6.64	83	28291	2.723	ug/l	100
31) Cyclohexane	6.93	56	19480	2.869	ug/l	94
32) 1,1,1-Trichloroethane	6.85	97	26393	2.919	ug/l	94
36) 1,1-Dichloropropene	7.11	75	22943	3.095	ug/l	93
37) Ethyl Acetate	6.15	43	8615	2.727	ug/l #	81
38) Carbon Tetrachloride	7.08	117	22658	2.412	ug/l	98

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 Quant Title : SW846 8260
 QLast Update : Thu May 02 07:48:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	8.83	83	21922	2.998	ug/l	95
40) Benzene	7.43	78	47652	2.597	ug/l	97
41) Methacrylonitrile	6.41	41	11657	3.163	ug/l #	85
42) 1,2-Dichloroethane	7.56	62	18031	2.894	ug/l	98
43) Isopropyl Acetate	9.22	43	10482	2.271	ug/l #	73
44) Trichloroethene	8.51	130	20166	2.835	ug/l	93
45) 1,2-Dichloropropane	8.90	63	12490	2.683	ug/l	100
46) Dibromomethane	9.03	93	8684	2.592	ug/l	95
47) Bromodichloromethane	9.36	83	19158	2.420	ug/l	94
48) Methyl methacrylate	9.09	41	7627	2.896	ug/l	95
49) 1,4-Dioxane	9.05	88	1121	39.486	ug/l #	78
51) 4-Methyl-2-Pentanone	10.27	43	41393	14.665	ug/l	100
52) Toluene	10.49	92	32367	2.766	ug/l	97
53) t-1,3-Dichloropropene	10.88	75	17314	2.606	ug/l	93
54) cis-1,3-Dichloropropene	10.01	75	21220	2.626	ug/l	94
55) 1,1,2-Trichloroethane	11.17	97	10517	2.677	ug/l	97
56) Ethyl methacrylate	11.02	69	11781	2.708	ug/l	93
57) 1,3-Dichloropropane	11.37	76	15577	2.567	ug/l	92
58) 2-Chloroethyl Vinyl ether	9.83	63	35620	17.610	ug/l	93
59) 2-Hexanone	11.51	43	27525	13.000	ug/l	96
60) Dibromochloromethane	11.66	129	16910	2.602	ug/l	96
61) 1,2-Dibromoethane	11.78	107	13330	2.861	ug/l	98
64) Tetrachloroethene	11.24	164	18155	3.284	ug/l	87
65) Chlorobenzene	12.38	112	42397	2.895	ug/l	96
66) 1,1,1,2-Tetrachloroethane	12.50	131	13931	2.243	ug/l	91
67) Ethyl Benzene	12.51	91	63046	2.638	ug/l	99
68) m/p-Xylenes	12.65	106	52961	6.130	ug/l	97
69) o-Xylene	13.03	106	24511	3.101	ug/l	92
70) Styrene	13.06	104	37670	2.760	ug/l	96
71) Bromoform	13.22	173	9035	2.551	ug/l	99
73) Isopropylbenzene	13.38	105	60442	2.400	ug/l	97
74) N-amyl acetate	13.25	43	16157	2.491	ug/l	93
75) 1,1,2,2-Tetrachloroethane	13.69	83	11688	2.368	ug/l	91
76) 1,2,3-Trichloropropane	13.72	75	12533	2.614	ug/l	84
77) Bromobenzene	13.65	156	19289	2.670	ug/l	83
78) n-propylbenzene	13.76	91	80595	2.796	ug/l	98
79) 2-Chlorotoluene	13.83	91	45546	2.608	ug/l	96
80) 1,3,5-Trimethylbenzene	13.91	105	52940	2.637	ug/l	94
81) trans-1,4-Dichloro-2-buten	13.46	75	3164m	2.178	ug/l	
82) 4-Chlorotoluene	13.93	91	51197	2.662	ug/l	94
83) tert-Butylbenzene	14.17	119	63597	2.734	ug/l	97
84) 1,2,4-Trimethylbenzene	14.22	105	59944	3.127	ug/l	93
85) sec-Butylbenzene	14.36	105	73331	2.918	ug/l	98
86) p-Isopropyltoluene	14.48	119	67909	3.019	ug/l	97
87) 1,3-Dichlorobenzene	14.45	146	35075	2.773	ug/l	94
88) 1,4-Dichlorobenzene	14.52	146	35360	2.989	ug/l	94
89) n-Butylbenzene	14.78	91	52979	2.623	ug/l	95
90) Hexachloroethane	15.00	117	15804	2.598	ug/l	87
91) 1,2-Dichlorobenzene	14.79	146	28064	2.689	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	15.37	75	1194	1.817	ug/l	71

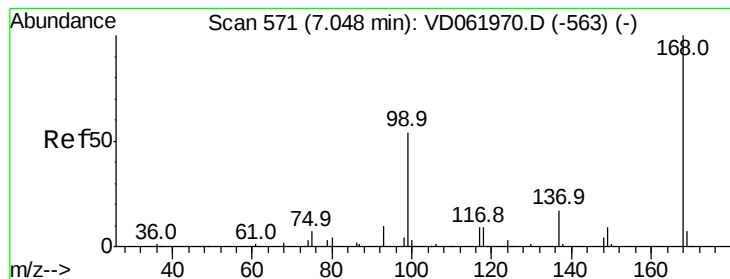
Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD050119\
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Quant Title : SW846 8260
QLast Update : Thu May 02 07:48:09 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.93	180	15240	2.707	ug/l	90
94) Hexachlorobutadiene	16.02	225	11920	2.861	ug/l	98
95) Naphthalene	16.11	128	25135	2.765	ug/l	98
96) 1,2,3-Trichlorobenzene	16.26	180	8955	2.803	ug/l	94

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 569

Delta R.T. -0.03 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

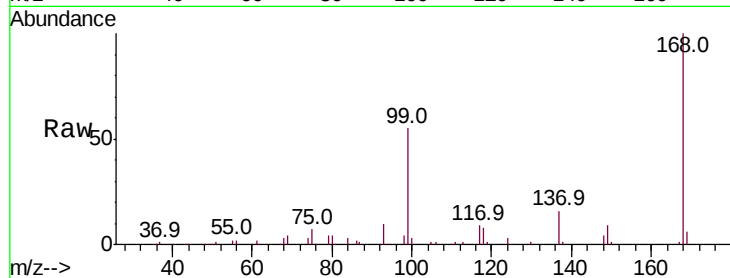
MDL-MDL-SOIL-03-QT2-2019

Tot Ion:168 Resp: 582424

Ion Ratio Lower Upper

168 100

99 54.5 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.02

200000

150000

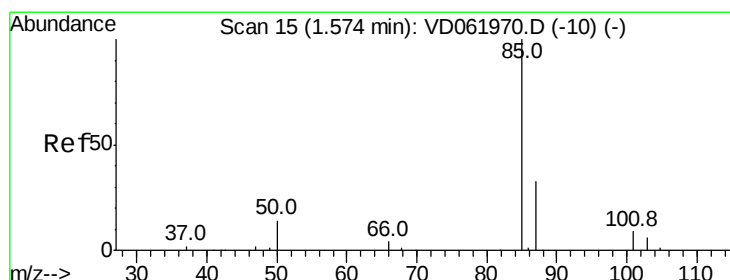
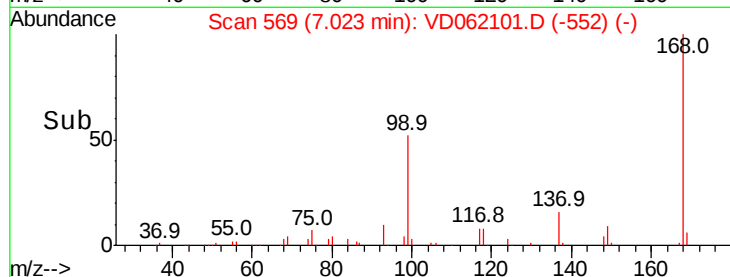
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#2

Dichlorodifluoromethane

Concen: 3.234 ug/l

RT: 1.57 min Scan# 15

Delta R.T. -0.02 min

Lab File: VD062101.D

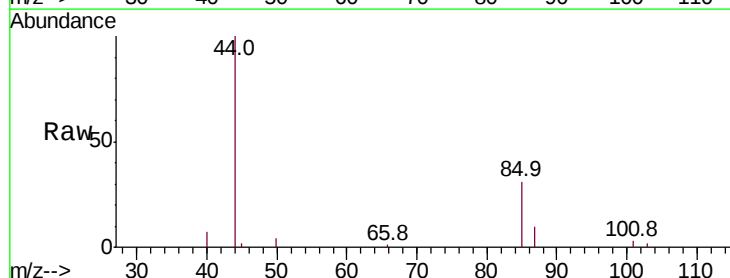
Acq: 1 May 2019 14:27

Tgt Ion: 85 Resp: 16818

Ion Ratio Lower Upper

85 100

87 32.5 16.2 48.6



Abundance Ion 84.95 (84.65 to 85.65): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.57

8000

6000

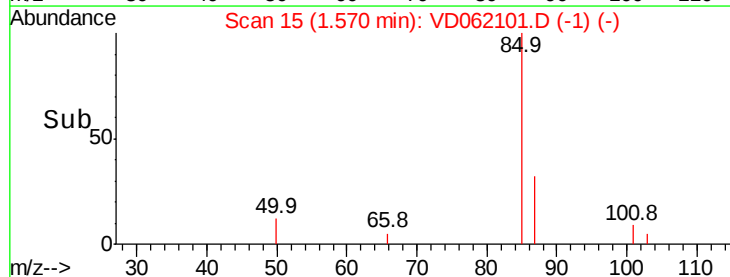
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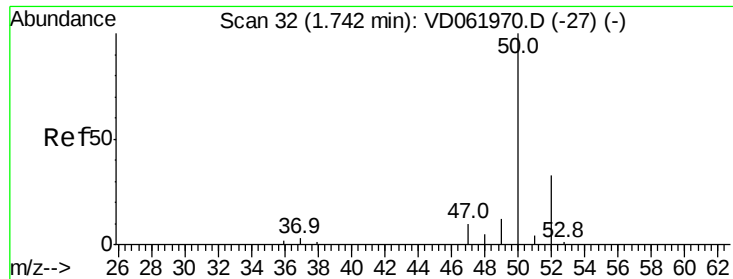
2000

0

1.50 1.55 1.60 1.65

Time-->

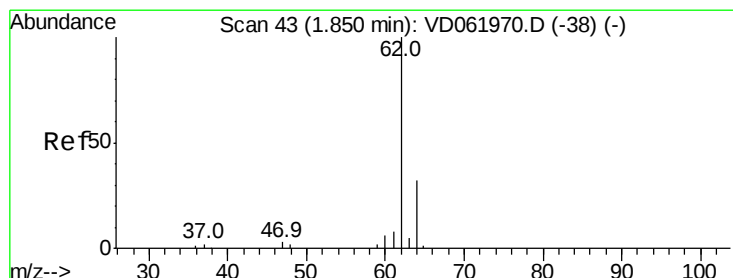
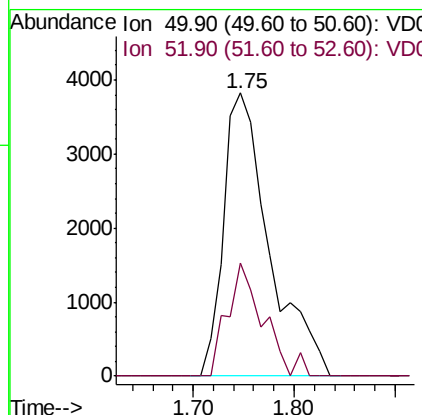
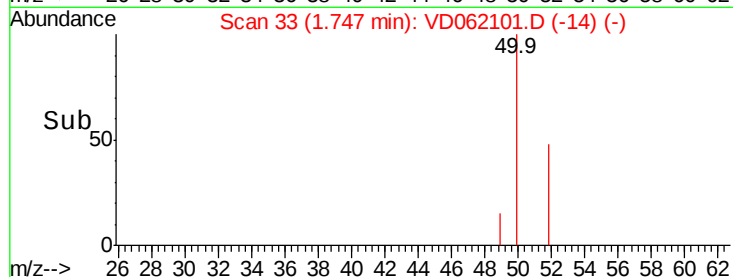
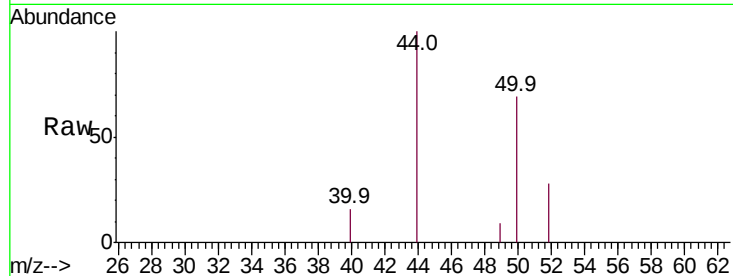




#3
Chloromethane
Concen: 2.726 ug/l
RT: 1.75 min Scan# 33
Delta R.T. -0.01 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

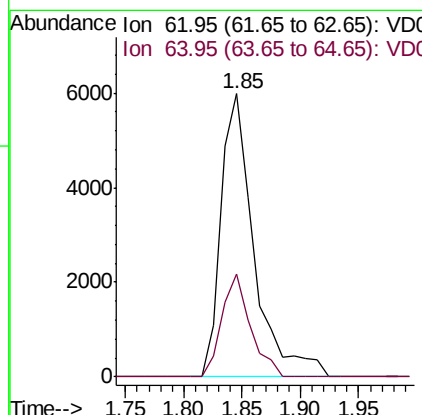
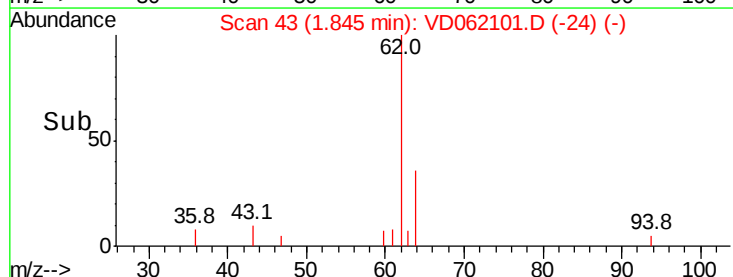
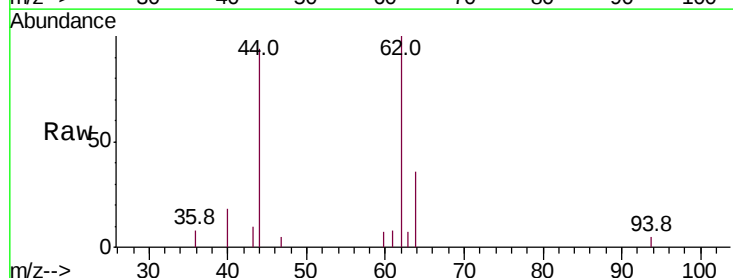
Instrument :
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MDL-MDL-SOIL-03-QT2-2019

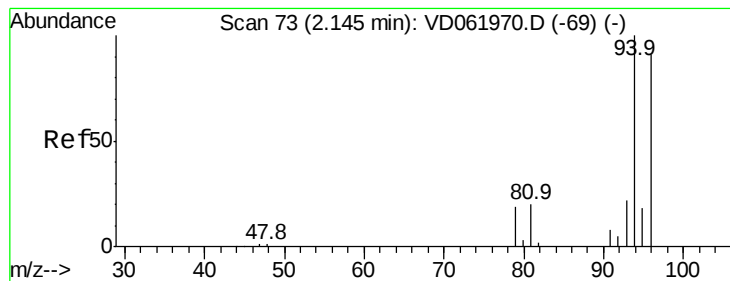
Tot Ion: 50 Resp: 12051
Ion Ratio Lower Upper
50 100
52 39.9 25.2 37.8#



#4
Vinyl Chloride
Concen: 2.929 ug/l
RT: 1.85 min Scan# 43
Delta R.T. -0.01 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Tgt Ion: 62 Resp: 11734
Ion Ratio Lower Upper
62 100
64 36.2 26.5 39.7





#5

Bromomethane

Concen: 5.290 ug/l

RT: 2.15 min Scan# 74

Delta R.T. -0.01 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

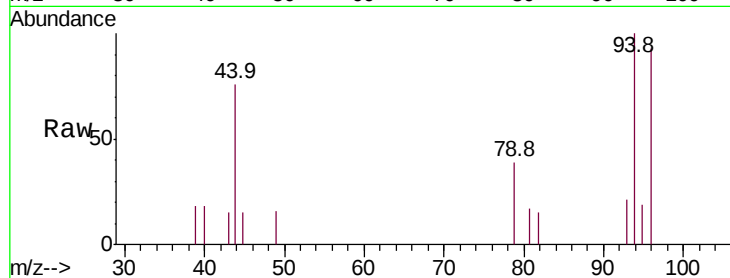
Tot Ion: 94 Resp: 6036

Ion Ratio Lower Upper

94 100

96 92.8 76.6 115.0

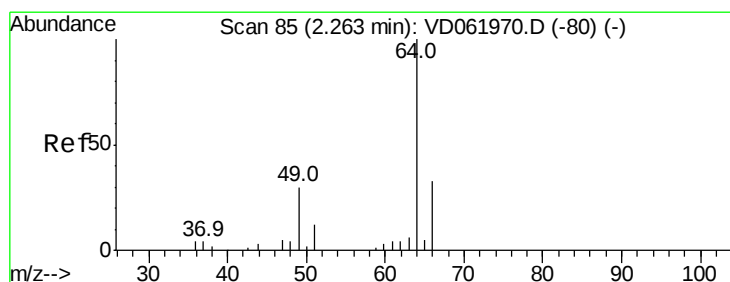
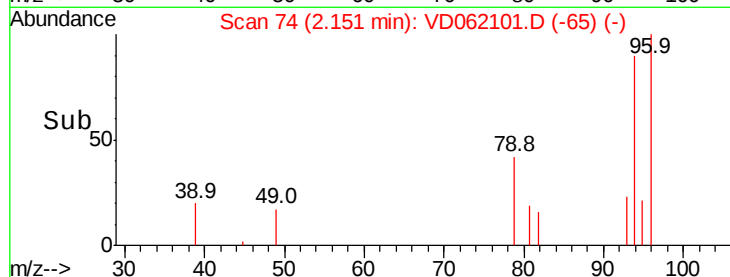
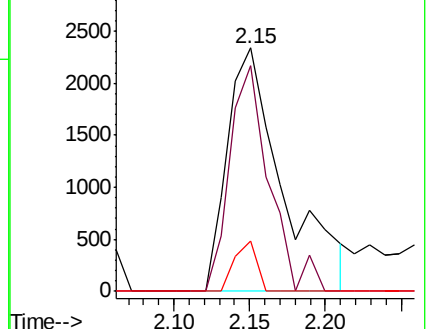
93 20.9 18.5 27.7



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: 2.933 ug/l

RT: 2.27 min Scan# 86

Delta R.T. -0.01 min

Lab File: VD062101.D

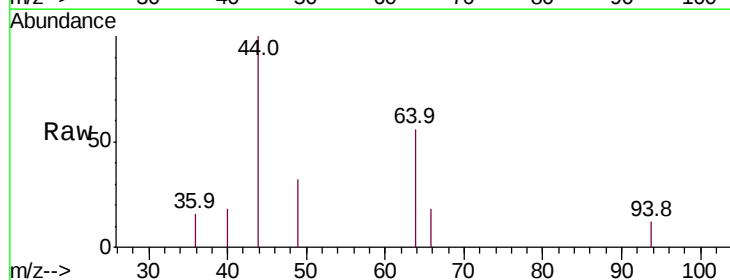
Acq: 1 May 2019 14:27

Tgt Ion: 64 Resp: 4247

Ion Ratio Lower Upper

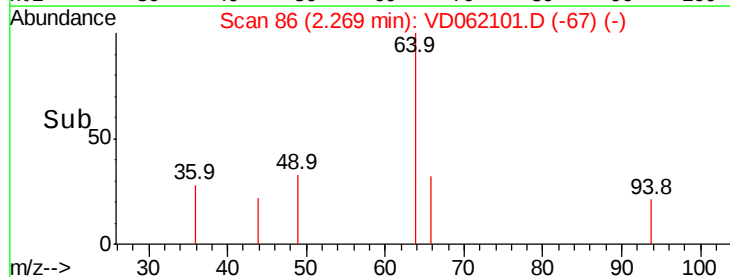
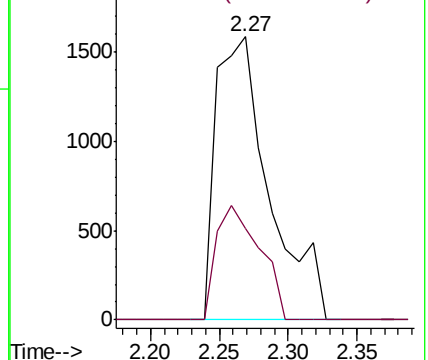
64 100

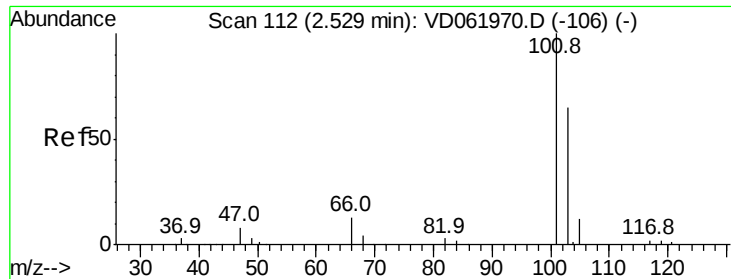
66 32.3 25.6 38.4



Abundance Ion 63.95 (63.65 to 64.65): VDC

Ion 65.90 (65.60 to 66.60): VDC



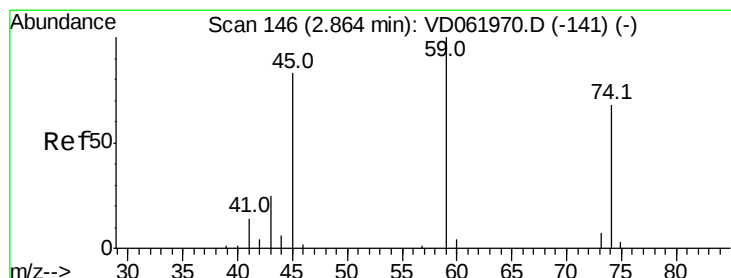
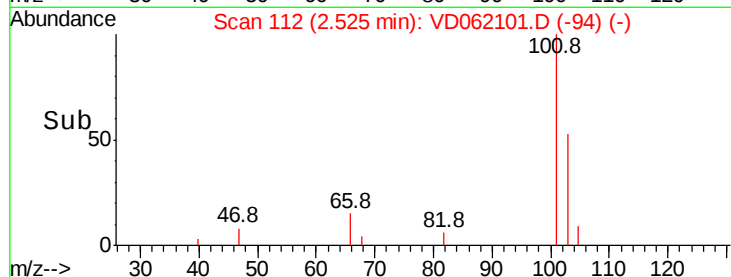
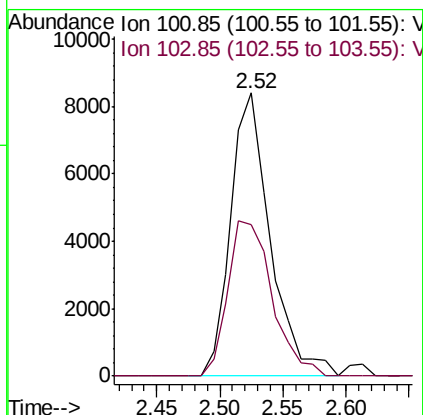
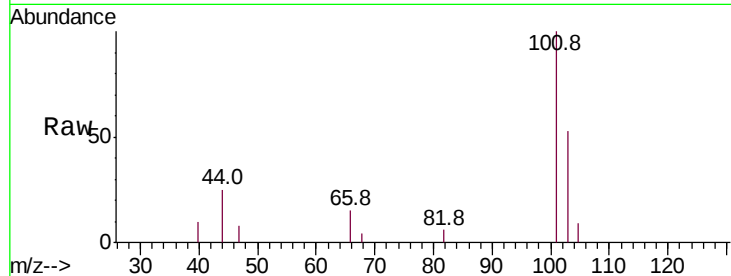


#7

Trichlorofluoromethane
 Concen: 3.006 ug/l
 RT: 2.52 min Scan# 112
 Delta R.T. -0.02 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

Instrument :
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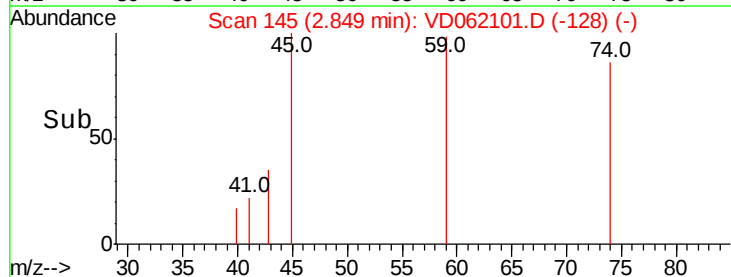
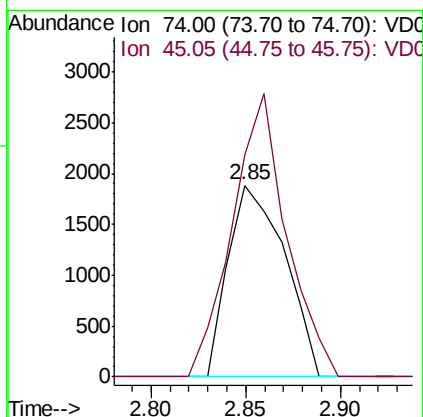
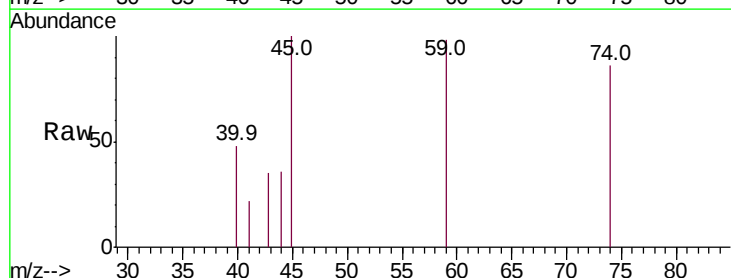
Tot Ion:101 Resp: 18206
 Ion Ratio Lower Upper
 101 100
 103 53.4 53.6 80.4#

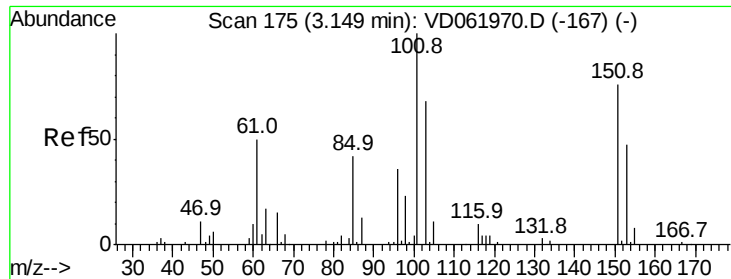


#8

Diethyl Ether
 Concen: 2.395 ug/l
 RT: 2.85 min Scan# 145
 Delta R.T. -0.03 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

Tgt Ion: 74 Resp: 3888
 Ion Ratio Lower Upper
 74 100
 45 115.8 56.9 170.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.223 ug/l

RT: 3.14 min Scan# 175

Delta R.T. -0.02 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

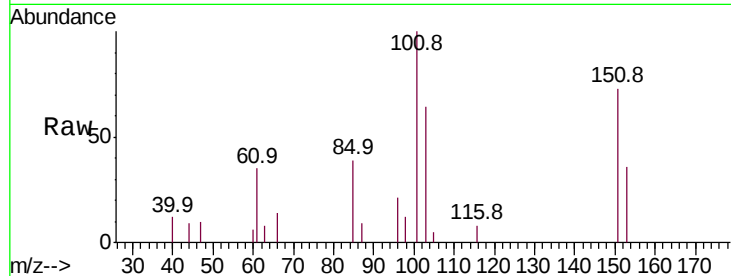
Tot Ion:101 Resp: 17982

Ion Ratio Lower Upper

101 100

85 38.9 32.4 48.6

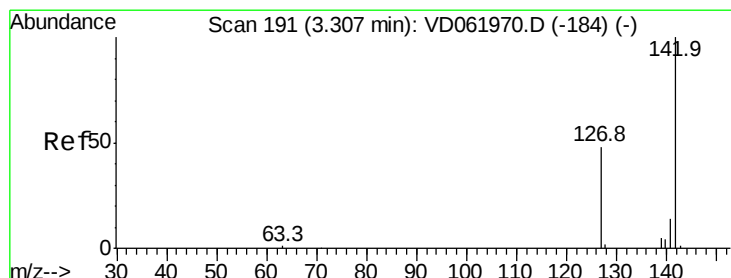
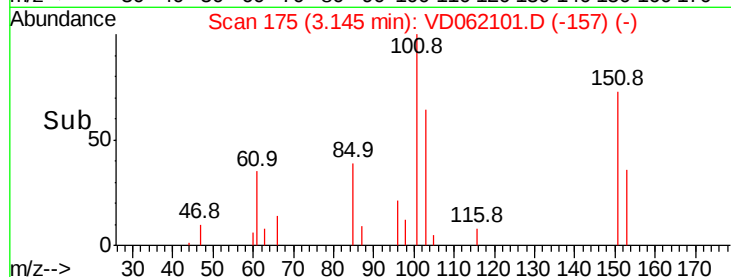
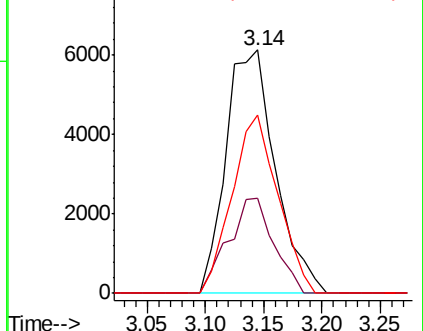
151 73.0 59.4 89.0



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: 2.480 ug/l

RT: 3.29 min Scan# 190

Delta R.T. -0.03 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

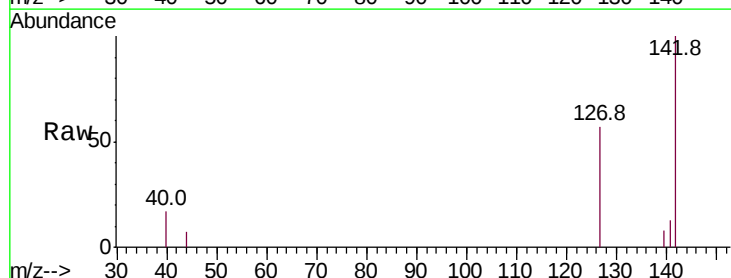
Tgt Ion:142 Resp: 17280

Ion Ratio Lower Upper

142 100

127 57.2 38.8 58.2

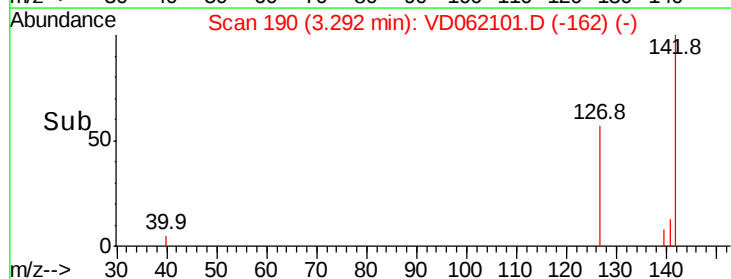
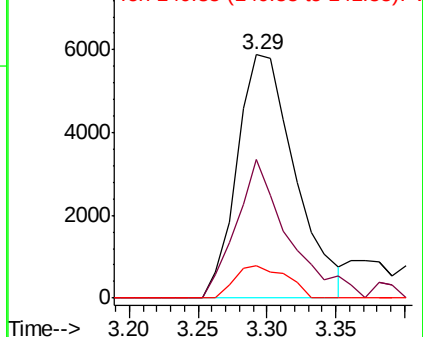
141 13.3 11.4 17.0

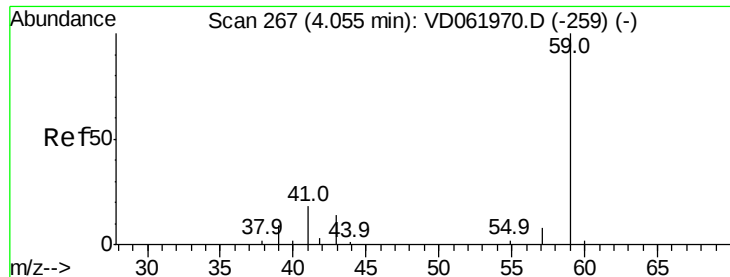


Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

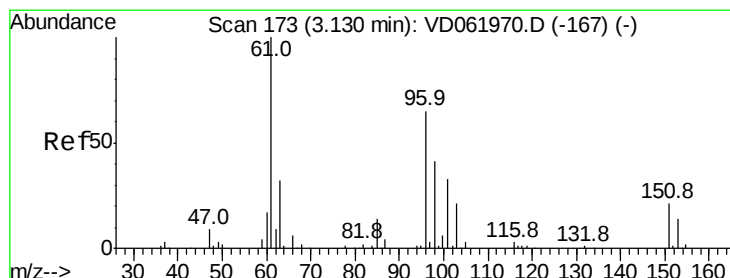
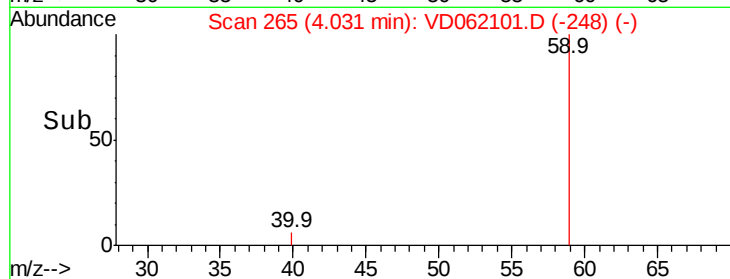
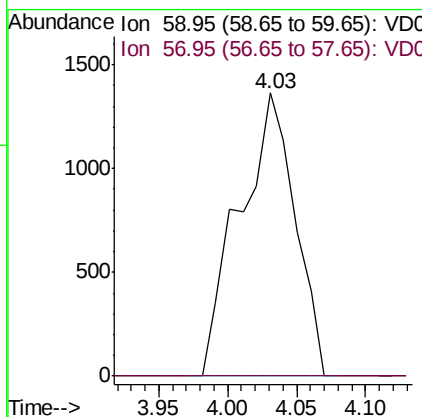
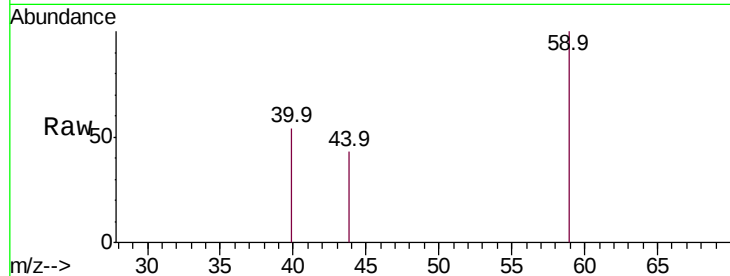




#11
Tert butyl alcohol
Concen: 14.844 ug/l
RT: 4.03 min Scan# 265
Delta R.T. -0.03 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

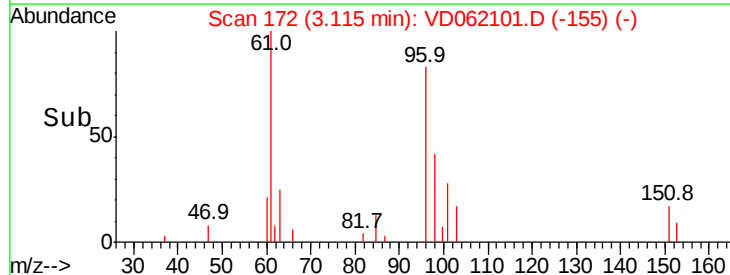
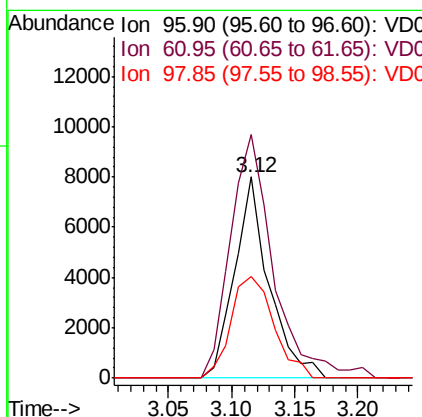
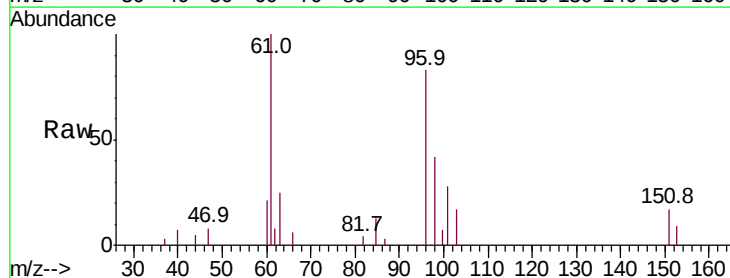
Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

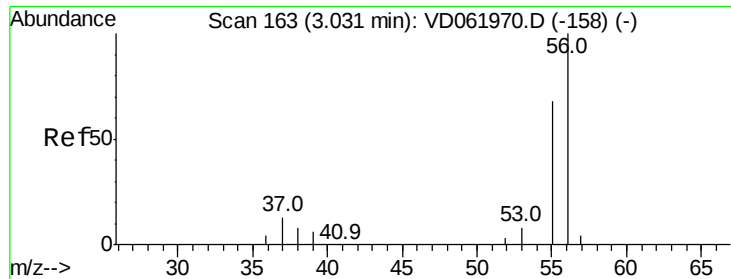
Tot Ion: 59 Resp: 3823
Ion Ratio Lower Upper
59 100
57 0.0 6.9 10.3#



#12
1,1-Dichloroethene
Concen: 3.172 ug/l
RT: 3.12 min Scan# 172
Delta R.T. -0.03 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Tgt Ion: 96 Resp: 15058
Ion Ratio Lower Upper
96 100
61 121.1 129.8 194.8#
98 50.7 51.2 76.8#





#13

Acrolein

Concen: 11.863 ug/l

RT: 3.02 min Scan# 162

Delta R.T. -0.03 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

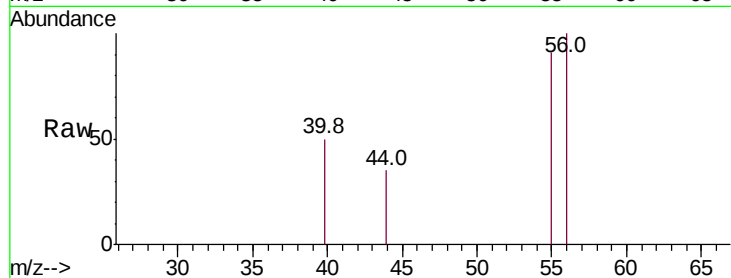
MDL-MDL-SOIL-03-QT2-2019

Tot Ion: 56 Resp: 3170

Ion Ratio Lower Upper

56 100

55 91.0 51.4 77.2#



Abundance Ion 55.95 (55.65 to 56.65): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.02

1500

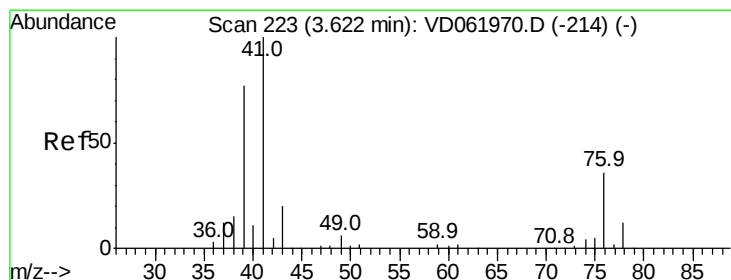
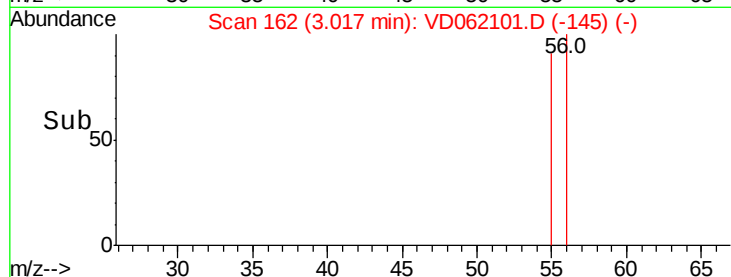
1000

500

0

Time-->

2.95 3.00 3.05



#14

Allyl chloride

Concen: 3.140 ug/l

RT: 3.61 min Scan# 222

Delta R.T. -0.03 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

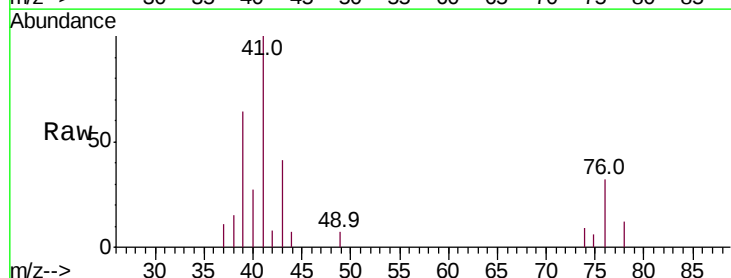
Tgt Ion: 41 Resp: 20354

Ion Ratio Lower Upper

41 100

39 64.3 60.5 90.7

76 31.5 31.8 47.8#



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

3.61

10000

8000

6000

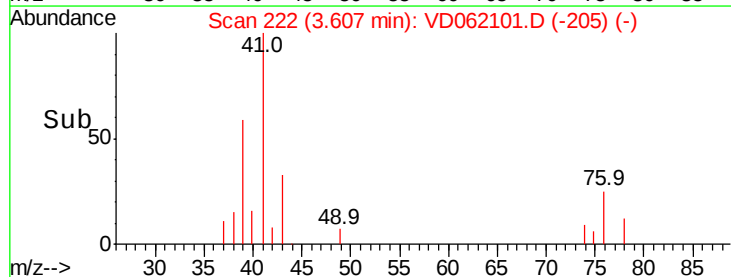
4000

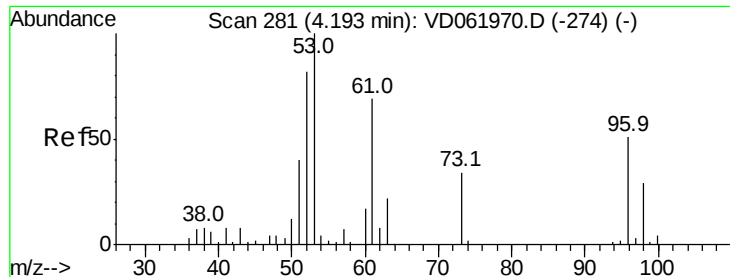
2000

0

Time-->

3.50 3.60 3.70





#15

Acrylonitrile

Concen: 16.360 ug/l

RT: 4.18 min Scan# 280

Delta R.T. -0.03 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

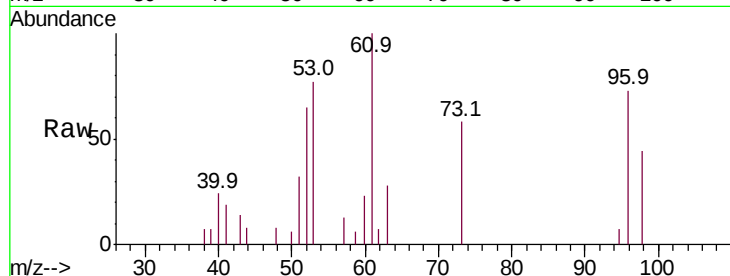
Tot Ion: 53 Resp: 13047

Ion Ratio Lower Upper

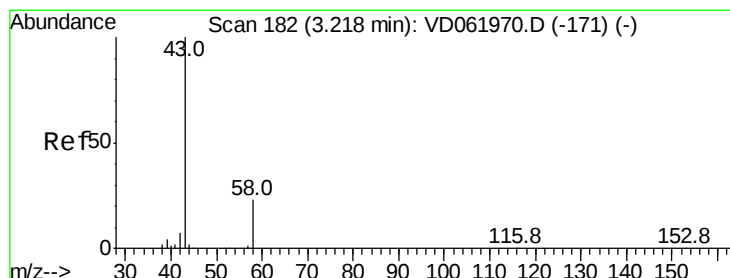
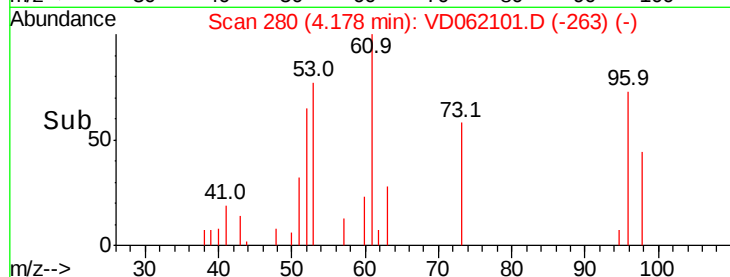
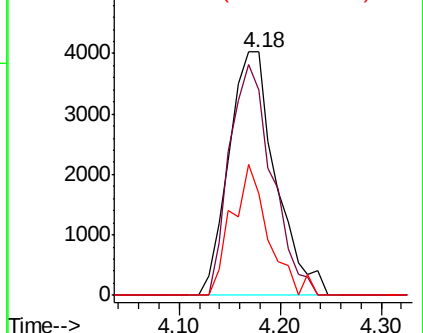
53 100

52 84.1 65.0 97.4

51 41.9 32.6 48.8



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: 14.722 ug/l

RT: 3.20 min Scan# 181

Delta R.T. -0.02 min

Lab File: VD062101.D

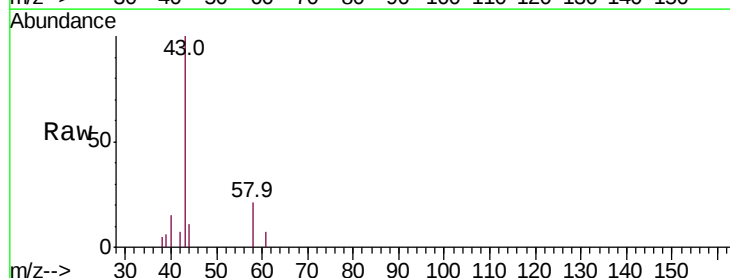
Acq: 1 May 2019 14:27

Tgt Ion: 43 Resp: 16024

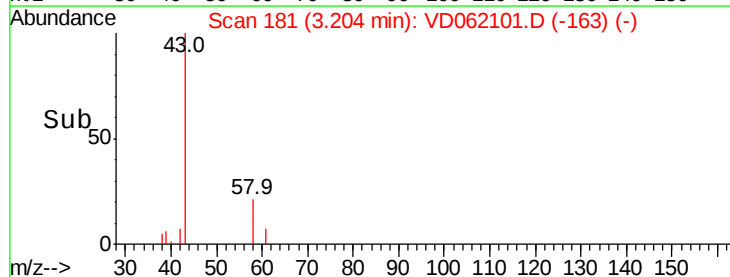
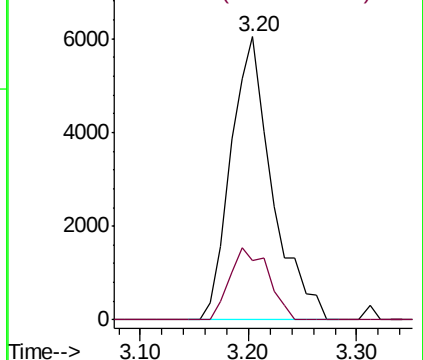
Ion Ratio Lower Upper

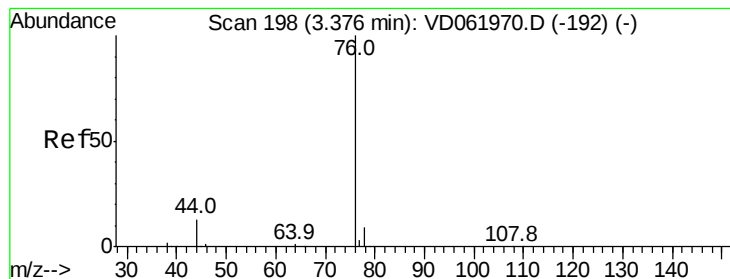
43 100

58 21.1 19.9 29.9



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





#17

Carbon Disulfide

Concen: 3.435 ug/l

RT: 3.36 min Scan# 197

Delta R.T. -0.03 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

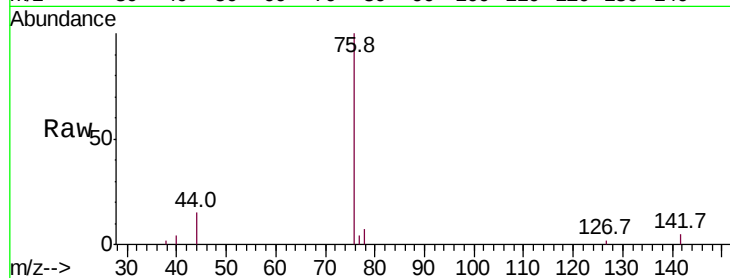
MDL-MDL-SOIL-03-QT2-2019

Tot Ion: 76 Resp: 47123

Ion Ratio Lower Upper

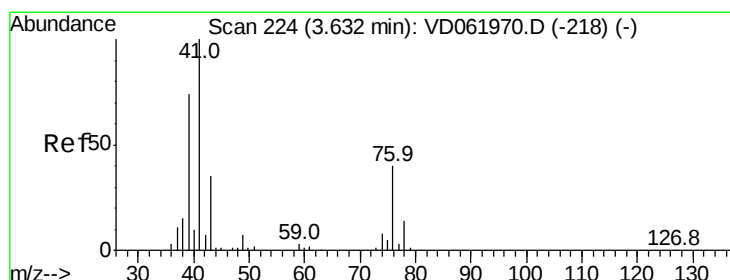
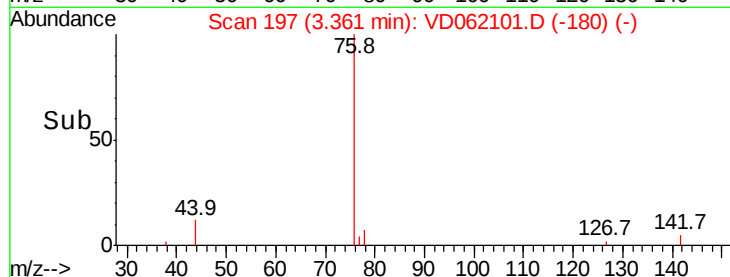
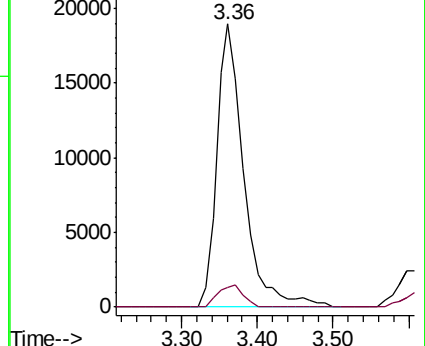
76 100

78 6.9 7.2 10.8#



Abundance Ion 75.85 (75.55 to 76.55): VDC

Ion 77.85 (77.55 to 78.55): VDC



#18

Methyl Acetate

Concen: 4.820 ug/l

RT: 3.62 min Scan# 223

Delta R.T. -0.03 min

Lab File: VD062101.D

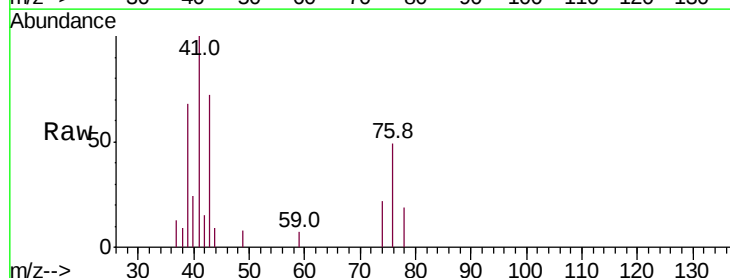
Acq: 1 May 2019 14:27

Tgt Ion: 43 Resp: 10557

Ion Ratio Lower Upper

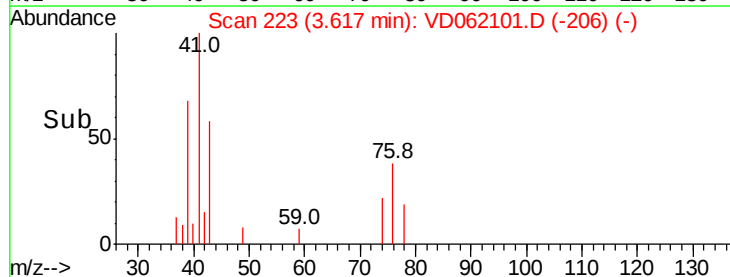
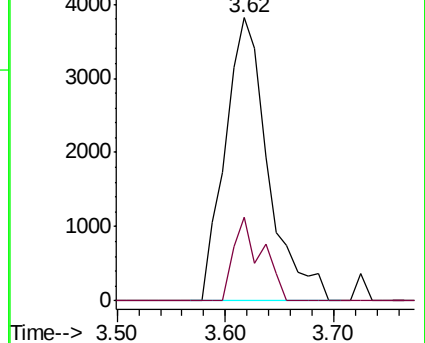
43 100

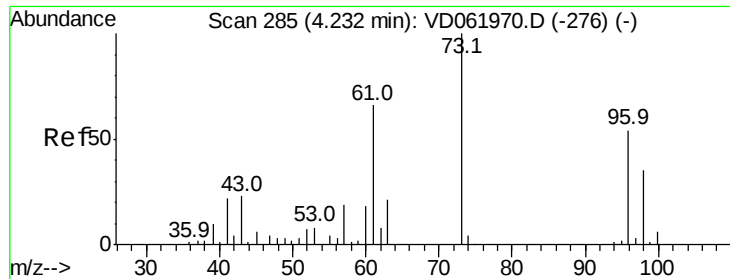
74 29.8 18.0 27.0#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 74.00 (73.70 to 74.70): VDC

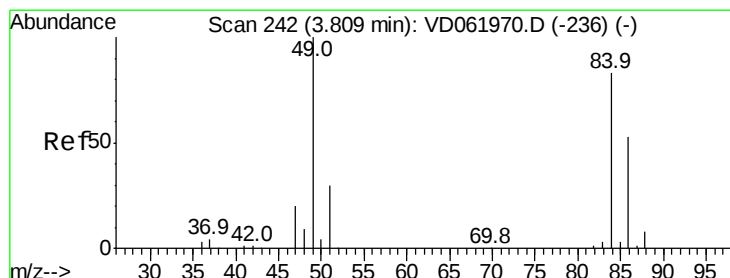
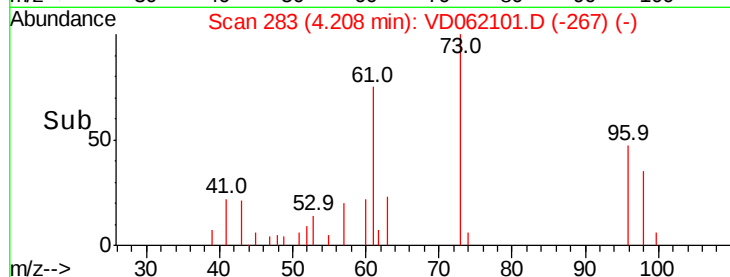
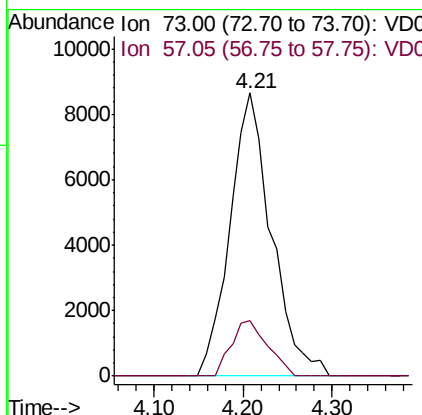
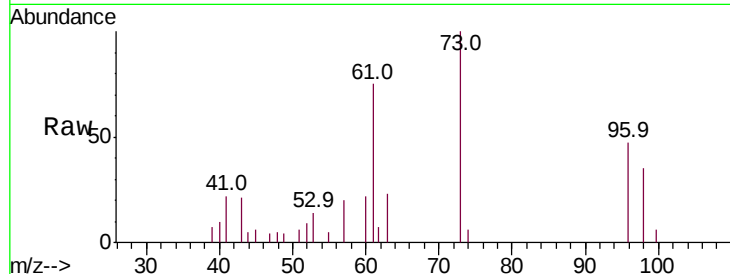




#19
Methvl tert-butvl Ether
Concen: 2.968 ug/l
RT: 4.21 min Scan# 283
Delta R.T. -0.04 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

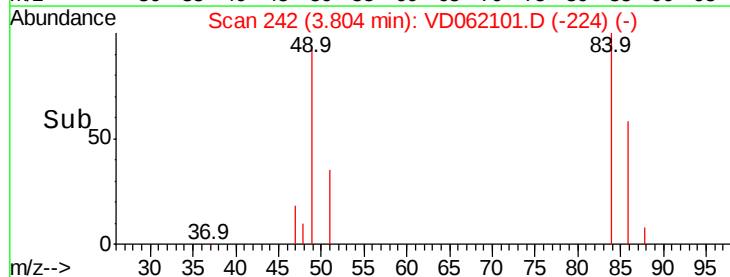
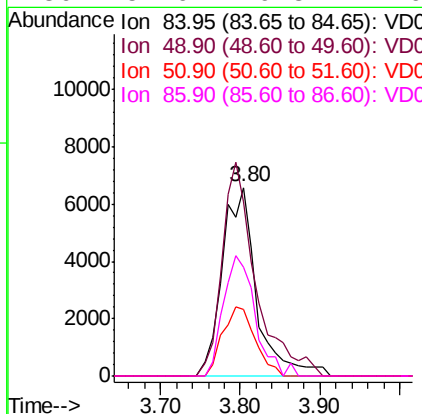
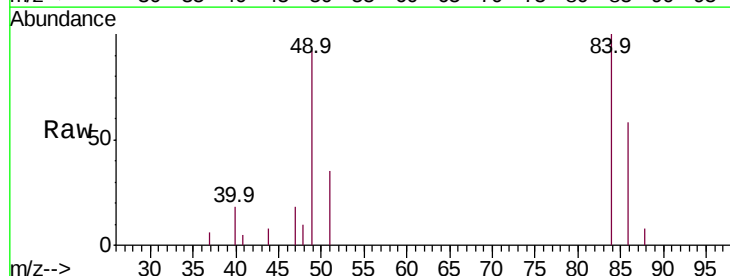
Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

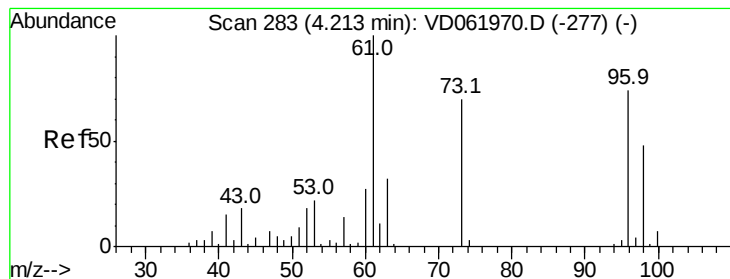
Tot Ion: 73 Resp: 27955
Ion Ratio Lower Upper
73 100
57 19.6 16.3 24.5



#20
Methylene Chloride
Concen: 3.286 ug/l
RT: 3.80 min Scan# 242
Delta R.T. -0.02 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Tgt Ion: 84 Resp: 19825
Ion Ratio Lower Upper
84 100
49 92.4 94.0 141.0#
51 35.1 29.0 43.4
86 57.6 49.8 74.6





#21

trans-1,2-Dichloroethene

Concen: 3.036 ug/l

RT: 4.19 min Scan# 281

Delta R.T. -0.04 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

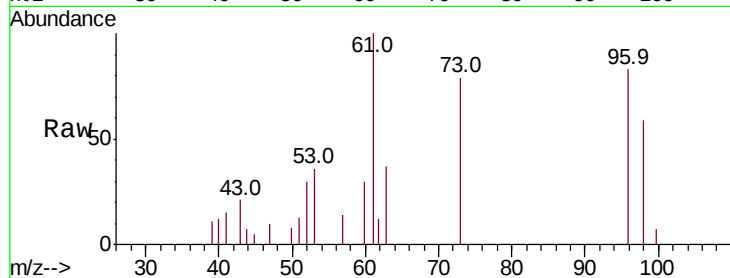
Tot Ion: 96 Resp: 16534

Ion Ratio Lower Upper

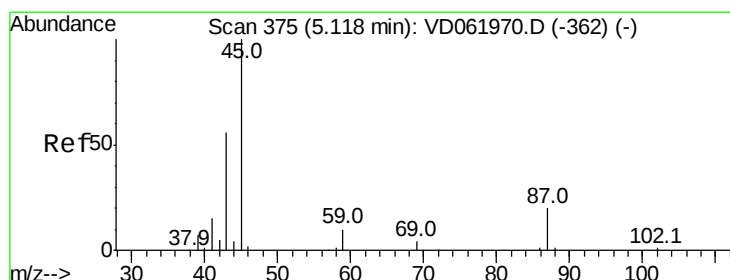
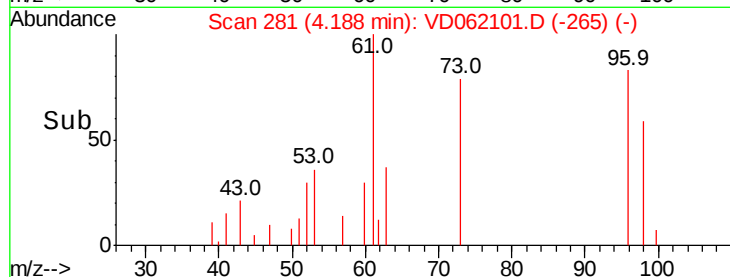
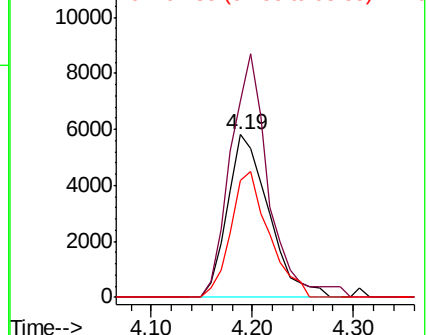
96 100

61 120.3 104.4 156.6

98 71.6 51.8 77.8



Abundance Ion 95.90 (95.60 to 96.60): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 97.85 (97.55 to 98.55): VDC



#22

Diisopropyl ether

Concen: 2.907 ug/l

RT: 5.08 min Scan# 372

Delta R.T. -0.04 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Tgt Ion: 45 Resp: 43992

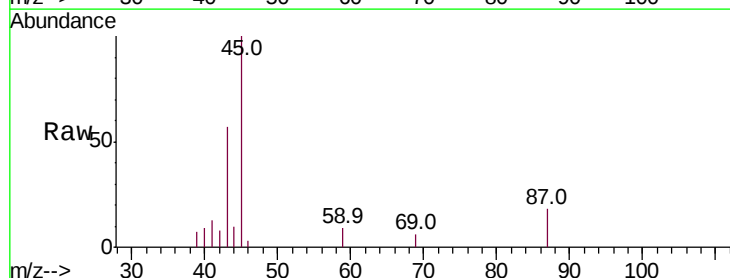
Ion Ratio Lower Upper

45 100

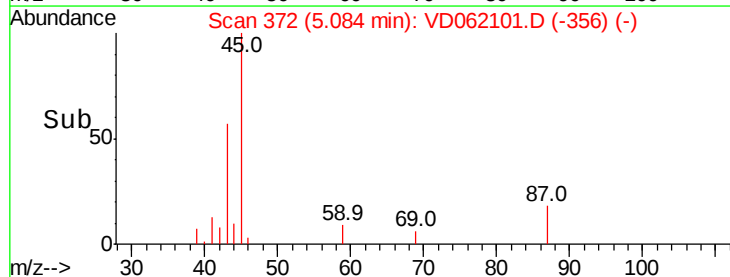
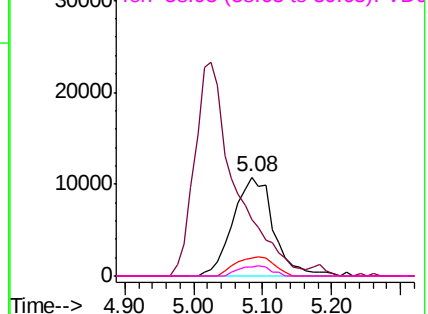
43 56.6 46.2 69.2

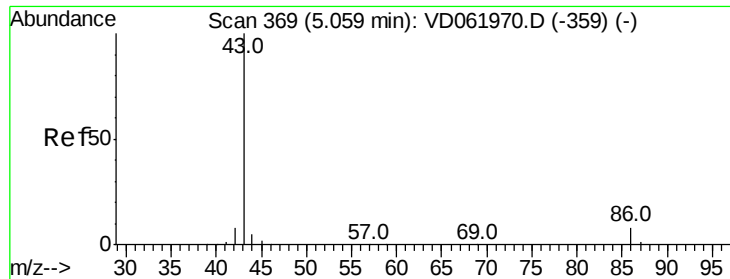
87 18.1 15.9 23.9

59 9.2 7.9 11.9



Abundance Ion 45.05 (44.75 to 45.75): VDC
Ion 43.05 (42.75 to 43.75): VDC
Ion 87.00 (86.70 to 87.70): VDC
Ion 58.95 (58.65 to 59.65): VDC





#23

Vinyl Acetate

Concen: 12.208 ug/l

RT: 5.03 min Scan# 366

Delta R.T. -0.04 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

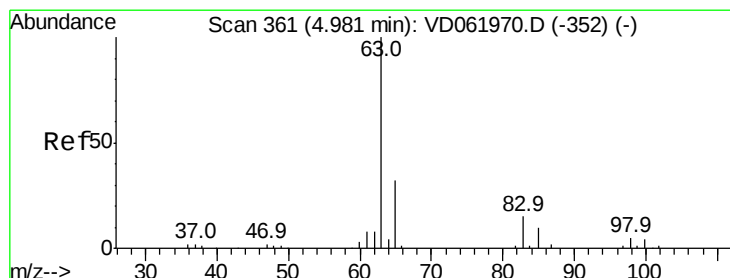
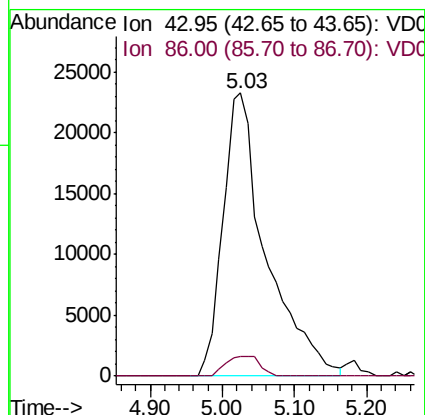
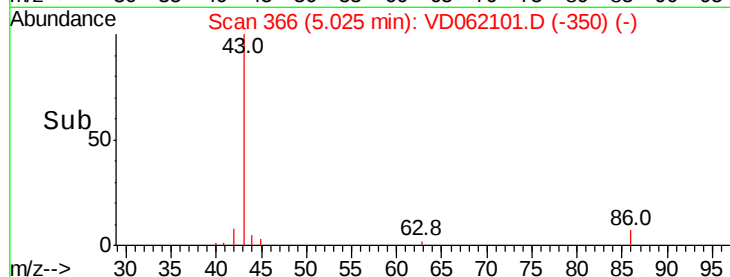
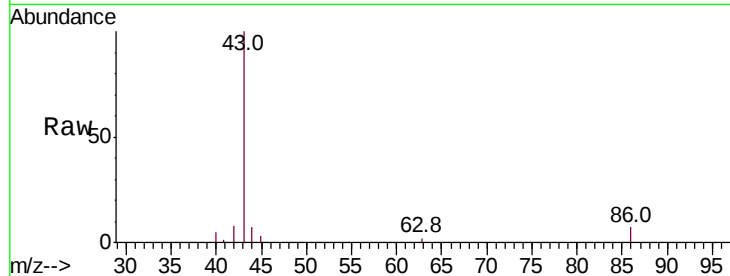
MDL-MDL-SOIL-03-QT2-2019

Tot Ion: 43 Resp: 96224

Ion Ratio Lower Upper

43 100

86 7.0 6.4 9.6



#24

1,1-Dichloroethane

Concen: 2.799 ug/l

RT: 4.95 min Scan# 358

Delta R.T. -0.05 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

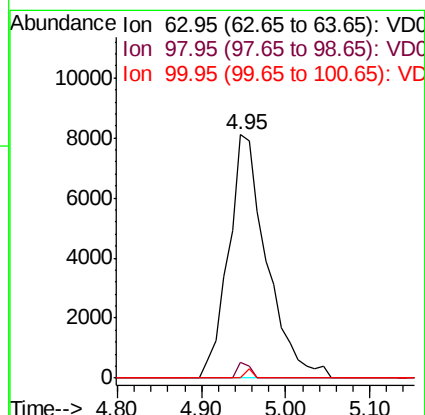
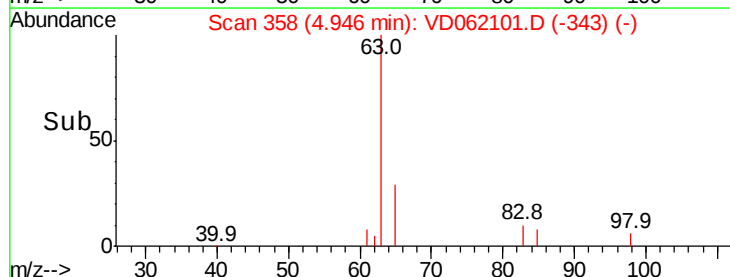
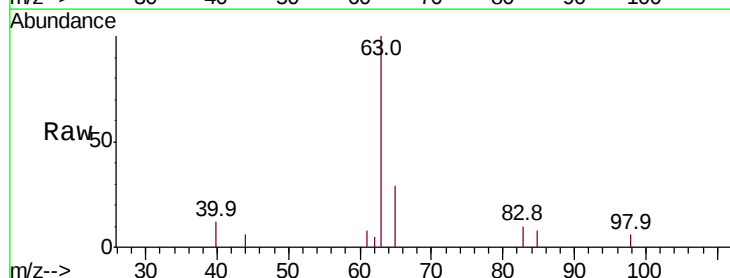
Tgt Ion: 63 Resp: 25601

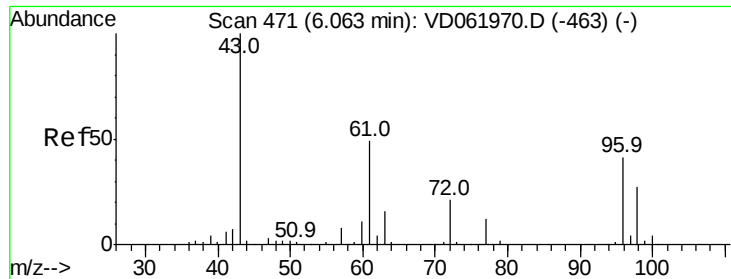
Ion Ratio Lower Upper

63 100

98 6.4 2.8 8.4

100 0.0 1.8 5.5#





#25

2-Butanone

Concen: 13.919 ug/l

RT: 6.03 min Scan# 468

Delta R.T. -0.05 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

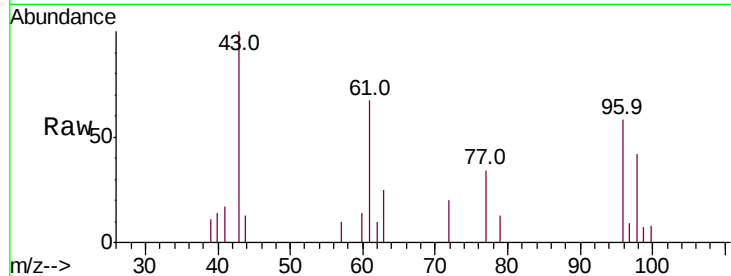
MDL-MDL-SOIL-03-QT2-2019

Tot Ion: 43 Resp: 18368

Ion Ratio Lower Upper

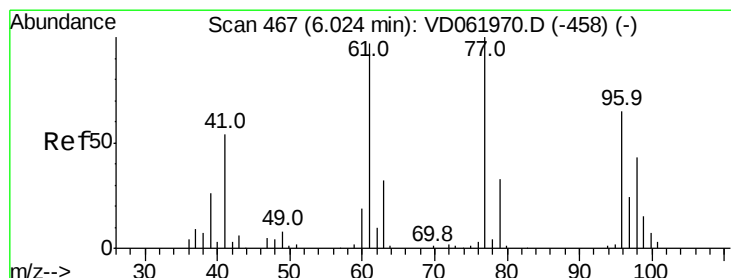
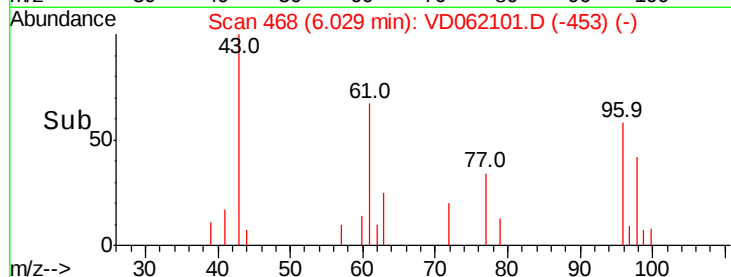
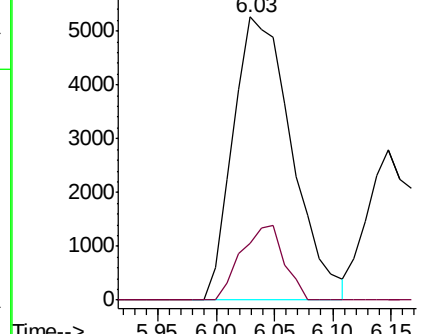
43 100

72 19.9 16.2 24.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC



#26

2,2-Dichloropropane

Concen: 2.843 ug/l

RT: 6.00 min Scan# 465

Delta R.T. -0.03 min

Lab File: VD062101.D

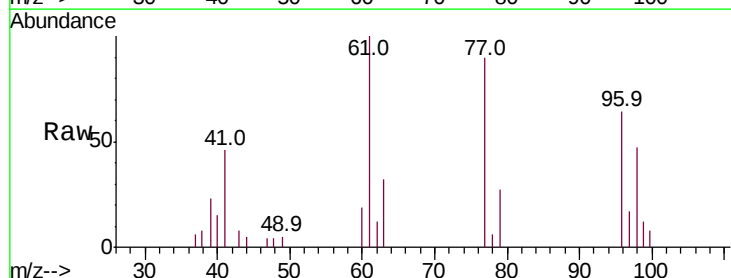
Acq: 1 May 2019 14:27

Tgt Ion: 77 Resp: 22685

Ion Ratio Lower Upper

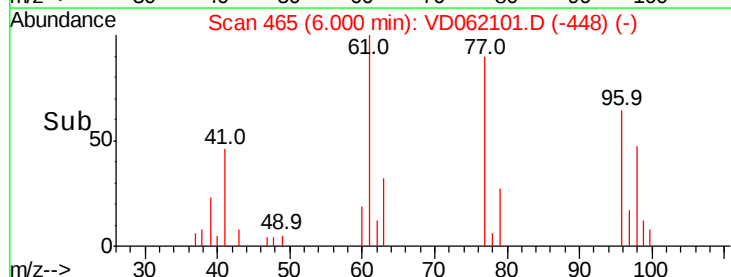
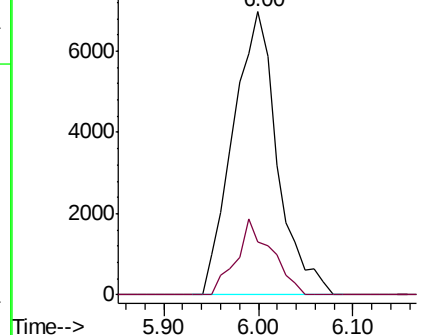
77 100

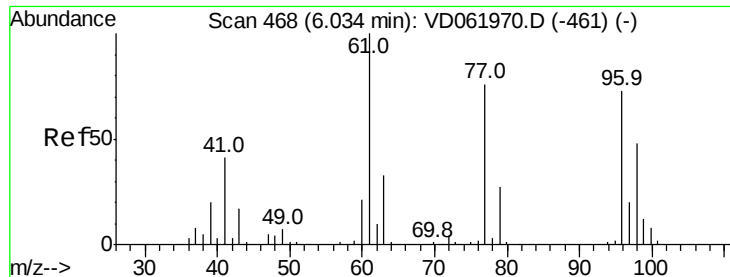
97 18.8 11.9 35.9



Abundance Ion 76.95 (76.65 to 77.65): VDC

Ion 96.85 (96.55 to 97.55): VDC



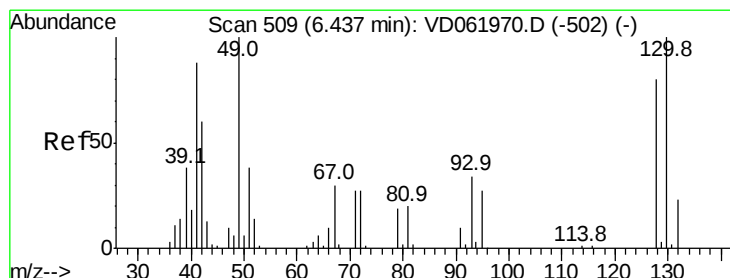
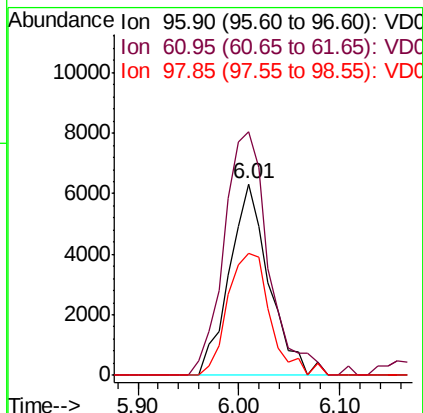
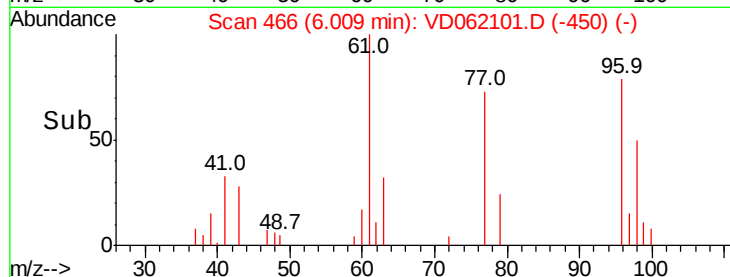
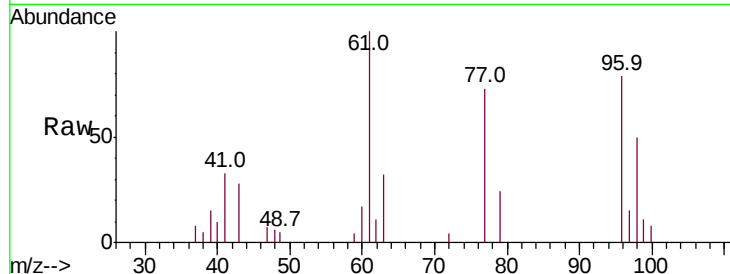


#27

cis-1,2-Dichloroethene
Concen: 2.779 ug/l
RT: 6.01 min Scan# 466
Delta R.T. -0.04 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

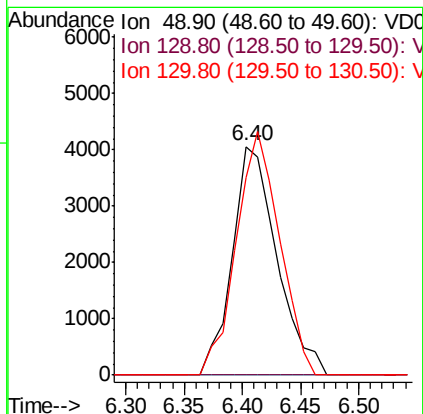
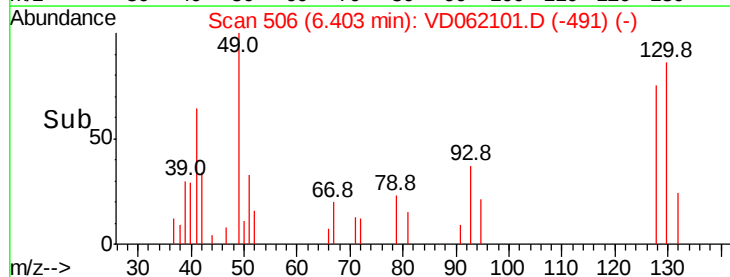
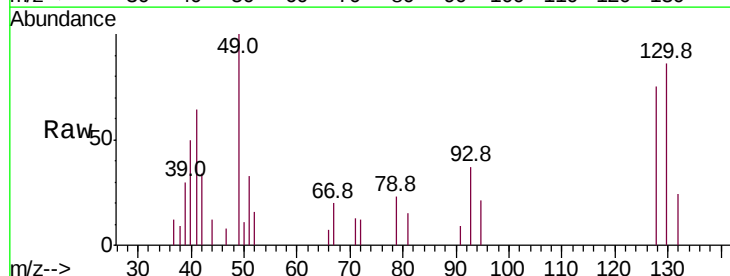
Tot Ion: 96 Resp: 17220
Ion Ratio Lower Upper
96 100
61 127.0 0.0 279.8
98 63.8 0.0 136.0

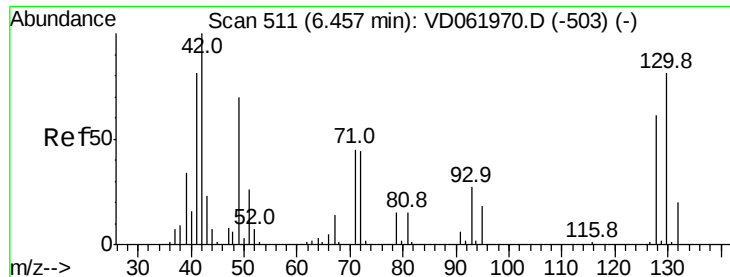


#28

Bromochloromethane
Concen: 3.083 ug/l
RT: 6.40 min Scan# 506
Delta R.T. -0.05 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Tgt Ion: 49 Resp: 10792
Ion Ratio Lower Upper
49 100
129 0.0 0.0 6.6
130 86.4 86.7 130.1#





#29

Tetrahydrofuran

Concen: 14.443 ug/l

RT: 6.42 min Scan# 508

Delta R.T. -0.04 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

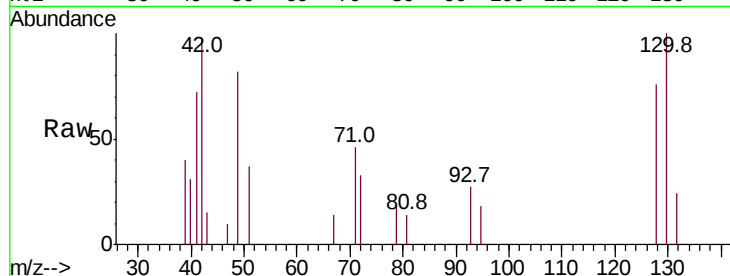
Tot Ion: 42 Resp: 9391

Ion Ratio Lower Upper

42 100

72 38.5 37.8 56.6

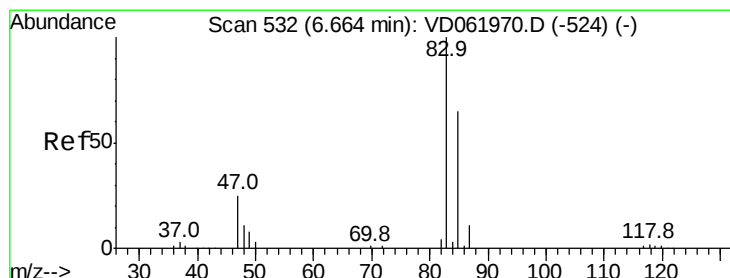
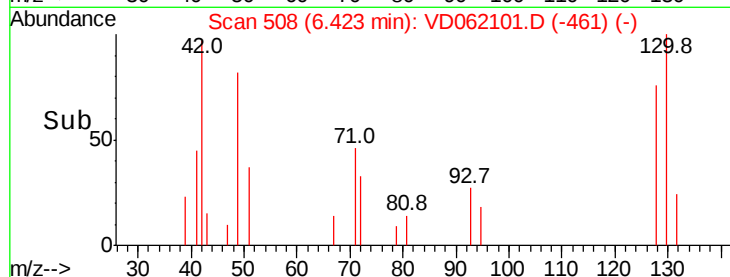
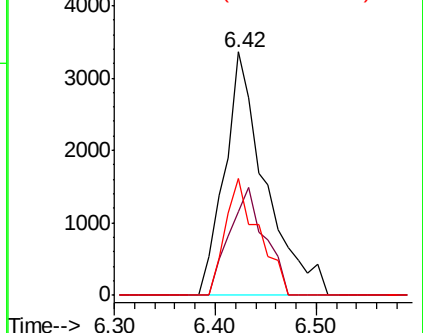
71 39.3 36.7 55.1



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: 2.723 ug/l

RT: 6.64 min Scan# 530

Delta R.T. -0.04 min

Lab File: VD062101.D

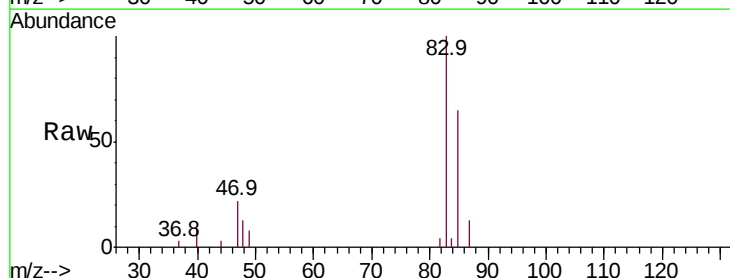
Acq: 1 May 2019 14:27

Tgt Ion: 83 Resp: 28291

Ion Ratio Lower Upper

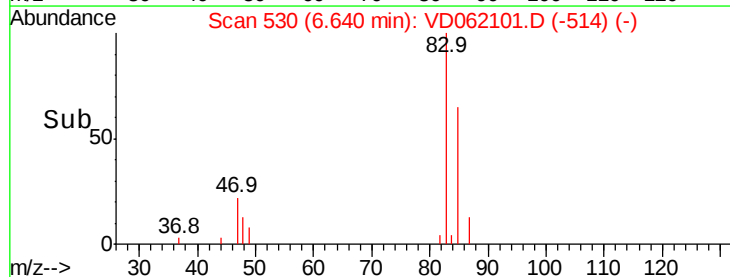
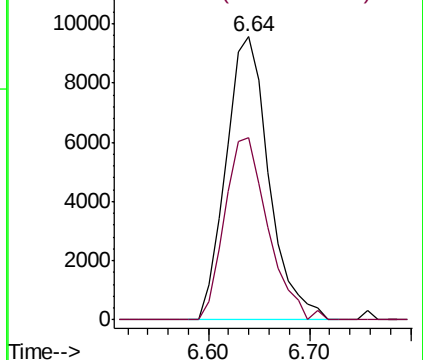
83 100

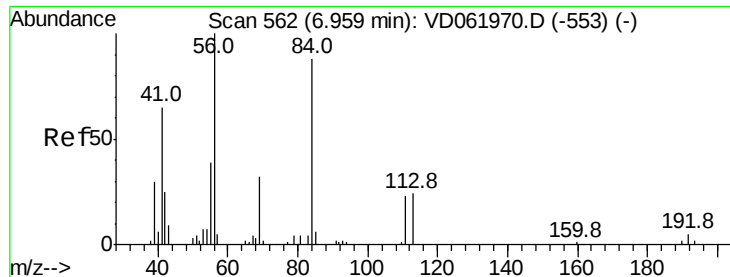
85 64.5 51.7 77.5



Abundance Ion 82.95 (82.65 to 83.65): VDC

Ion 84.95 (84.65 to 85.65): VDC

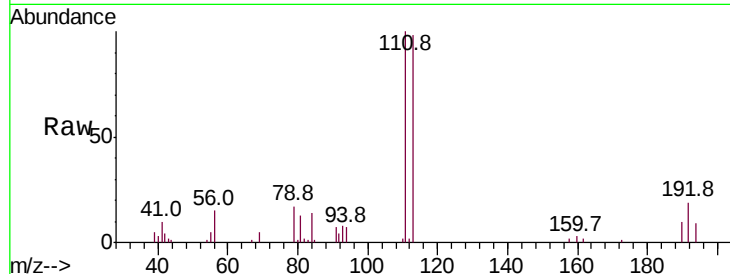




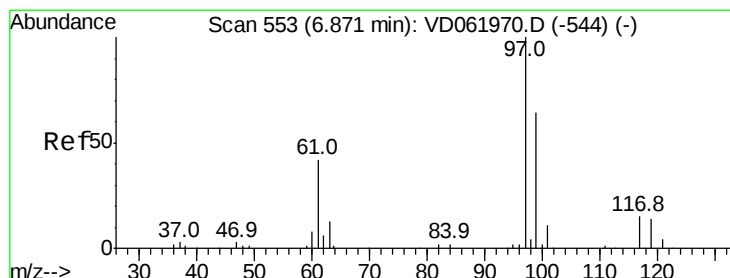
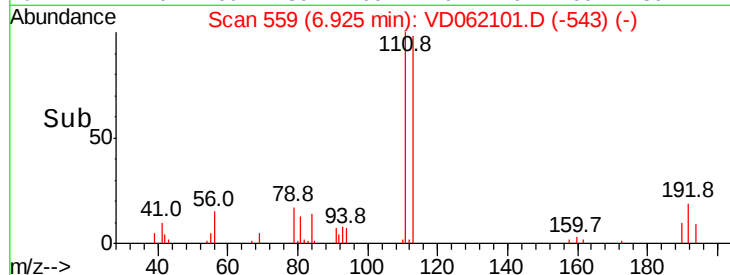
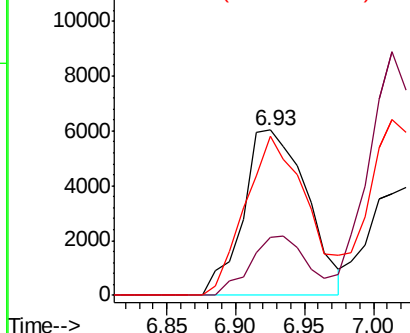
#31
Cvclohexane
Concen: 2.869 ug/l
RT: 6.93 min Scan# 559
Delta R.T. -0.04 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

Tot Ion: 56 Resp: 19480
Ion Ratio Lower Upper
56 100
69 34.7 25.8 38.6
84 96.0 72.2 108.4

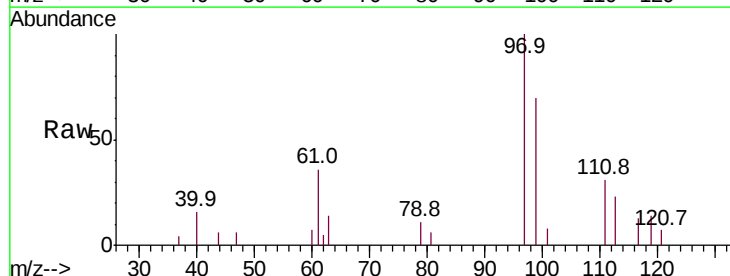


Abundance Ion 55.95 (55.65 to 56.65): VDC
Ion 69.00 (68.70 to 69.70): VDC
Ion 84.05 (83.75 to 84.75): VDC

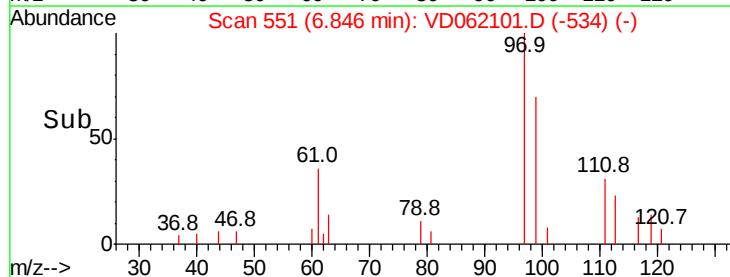
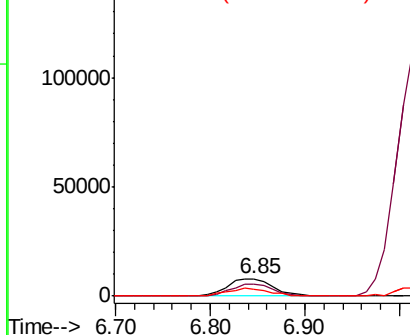


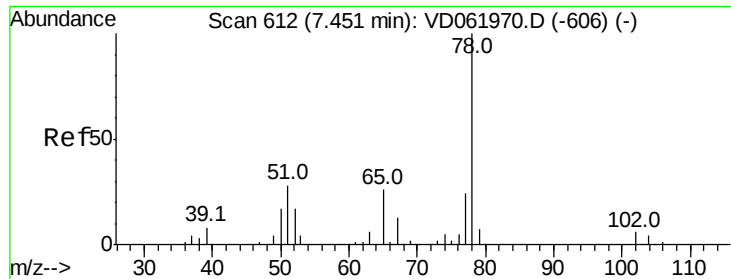
#32
1,1,1-Trichloroethane
Concen: 2.919 ug/l
RT: 6.85 min Scan# 551
Delta R.T. -0.03 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Tgt Ion: 97 Resp: 26393
Ion Ratio Lower Upper
97 100
99 69.9 52.2 78.2
61 36.4 32.4 48.6



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: 57.035 ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.03 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

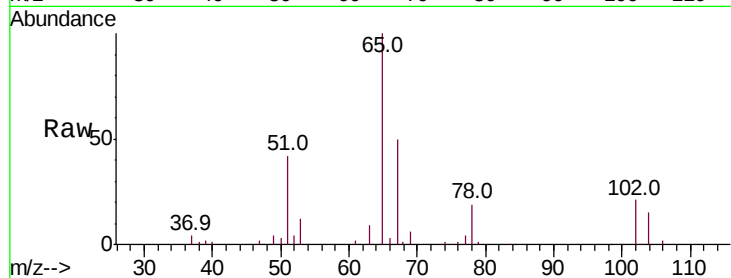
MDL-MDL-SOIL-03-QT2-2019

Tot Ion: 65 Resp: 259987

Ion Ratio Lower Upper

65 100

67 50.2 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

7.43

100000

80000

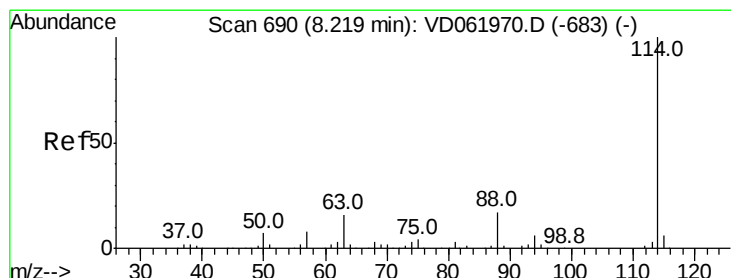
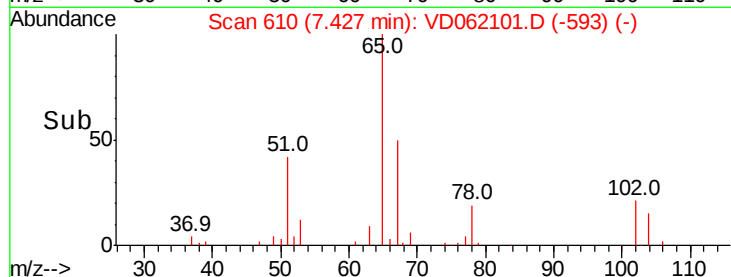
60000

40000

20000

0

Time--> 7.30 7.40 7.50 7.60



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.19 min Scan# 688

Delta R.T. -0.03 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

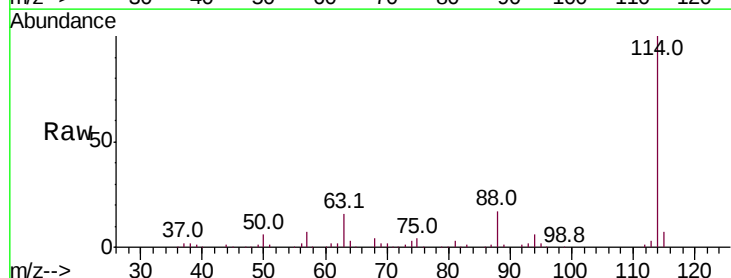
Tgt Ion:114 Resp: 951403

Ion Ratio Lower Upper

114 100

63 16.1 0.0 32.4

88 16.6 0.0 33.6



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC

500000

400000

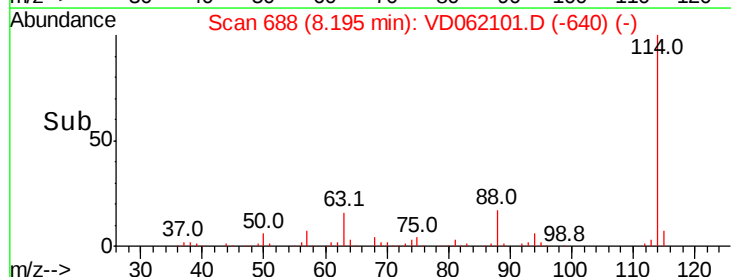
300000

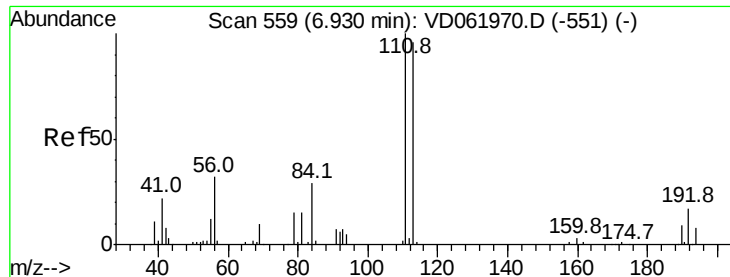
200000

100000

0

Time--> 8.00 8.20 8.40

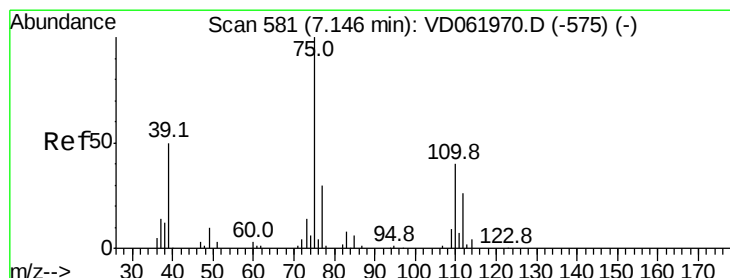
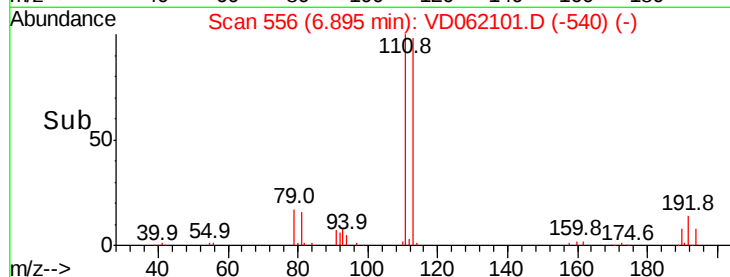
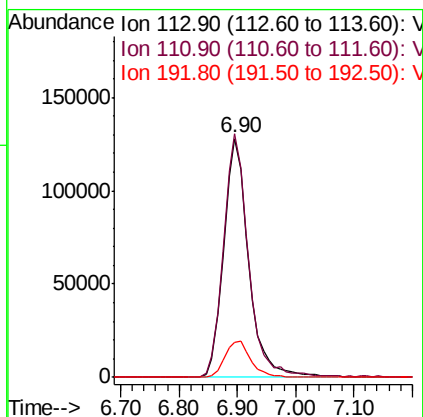
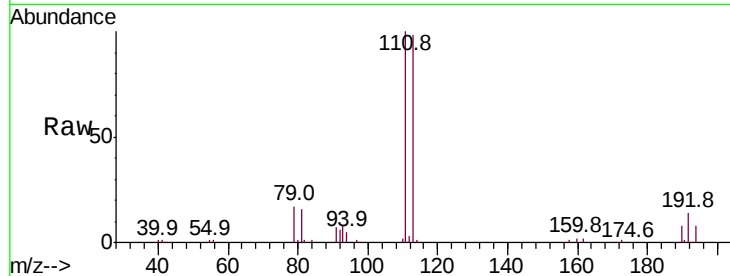




#35
 Dibromofluoromethane
 Concen: 57.885 ug/l
 RT: 6.90 min Scan# 556
 Delta R.T. -0.04 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

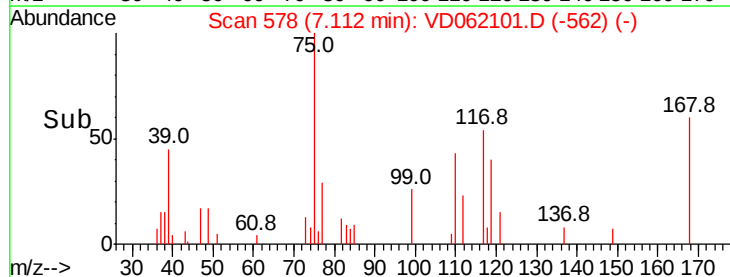
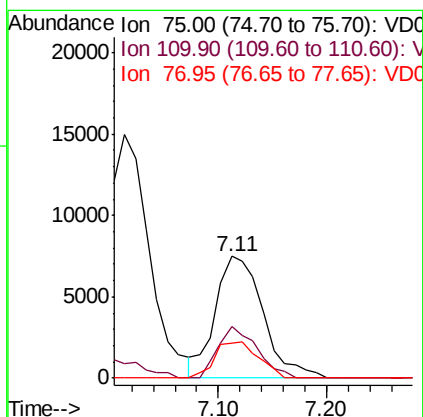
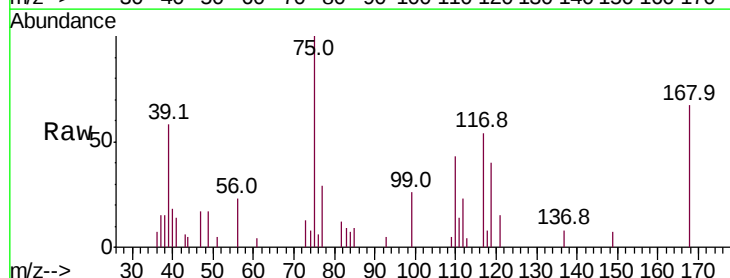
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

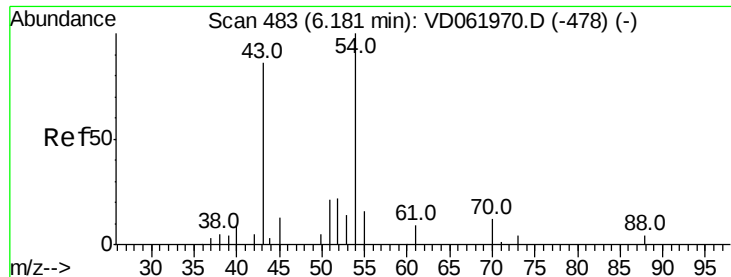
Tot Ion:113 Resp: 380875
 Ion Ratio Lower Upper
 113 100
 111 101.8 78.5 117.7
 192 14.5 13.0 19.4



#36
 1,1-Dichloropropene
 Concen: 3.095 ug/l
 RT: 7.11 min Scan# 578
 Delta R.T. -0.04 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

Tgt Ion: 75 Resp: 22943
 Ion Ratio Lower Upper
 75 100
 110 42.8 19.1 57.1
 77 28.6 25.6 38.4

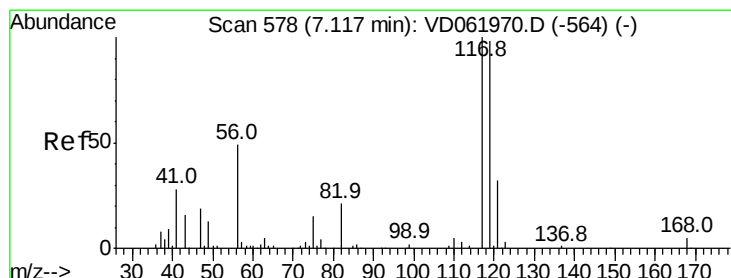
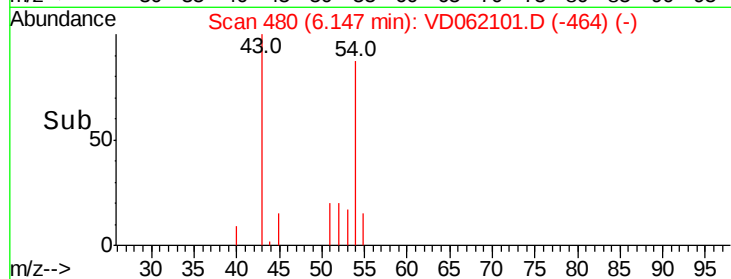
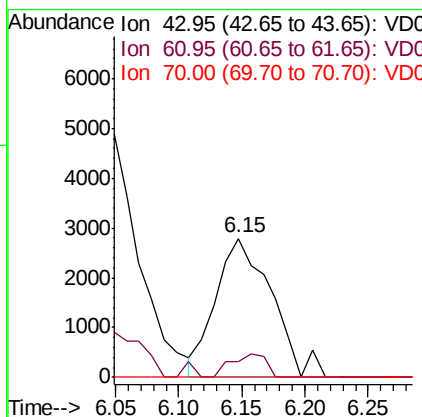
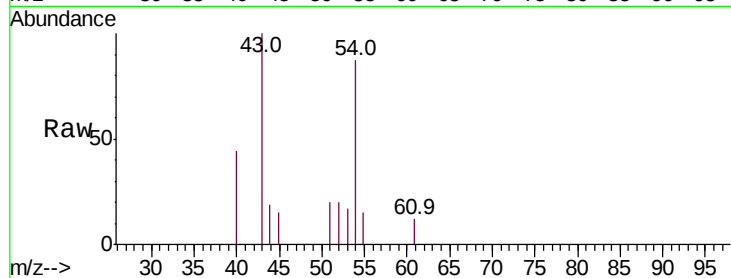




#37
Ethyl Acetate
Concen: 2.727 ug/l
RT: 6.15 min Scan# 480
Delta R.T. -0.04 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

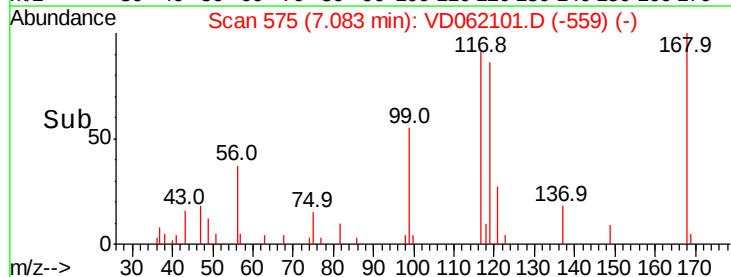
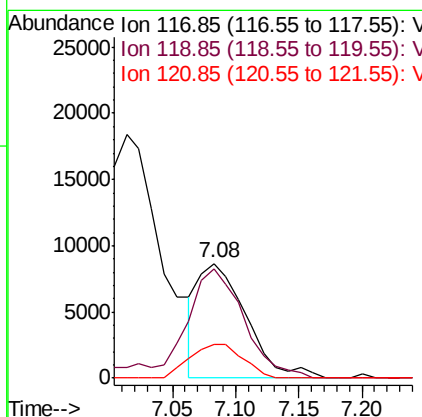
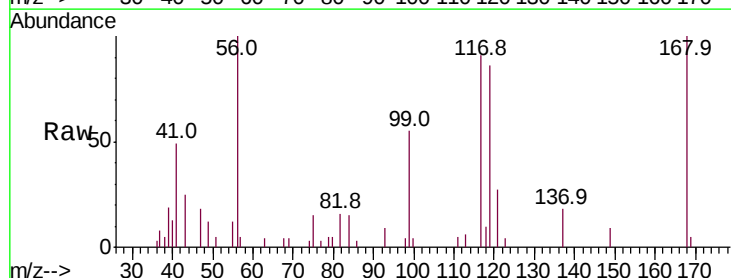
Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

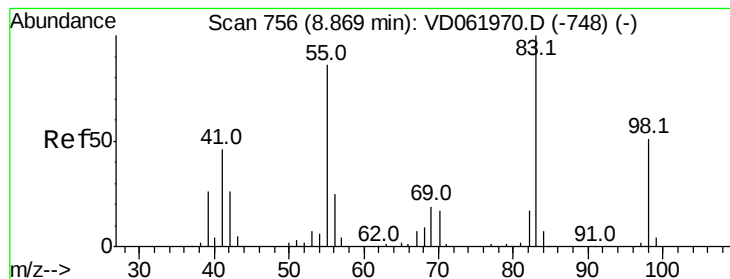
Tot Ion: 43 Resp: 8615
Ion Ratio Lower Upper
43 100
61 11.6 14.7 22.1#
70 0.0 7.8 11.6#



#38
Carbon Tetrachloride
Concen: 2.412 ug/l
RT: 7.08 min Scan# 575
Delta R.T. -0.04 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Tgt Ion: 117 Resp: 22658
Ion Ratio Lower Upper
117 100
119 95.1 75.8 113.8
121 29.2 25.9 38.9





#39

Methvlcvclohexane

Concen: 2.998 ug/l

RT: 8.83 min Scan# 753

Delta R.T. -0.04 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

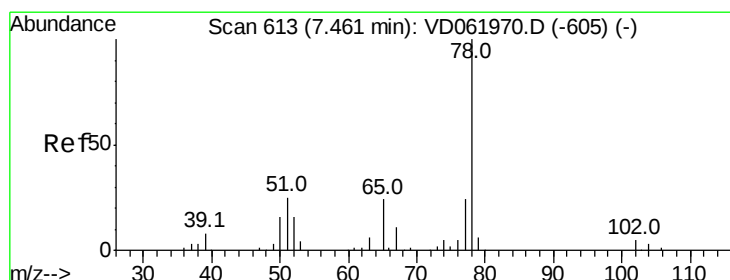
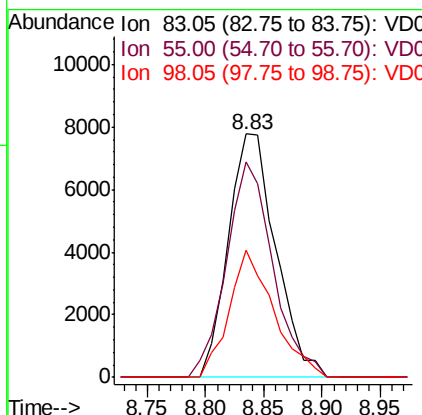
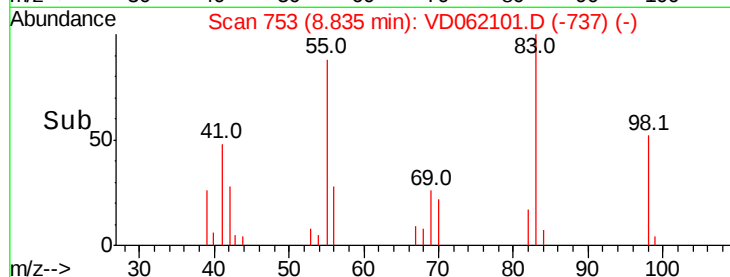
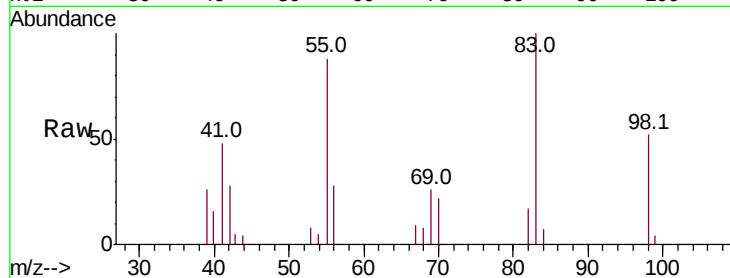
Tot Ion: 83 Resp: 21922

Ion Ratio Lower Upper

83 100

55 88.4 68.2 102.4

98 52.3 38.2 57.4



#40

Benzene

Concen: 2.597 ug/l

RT: 7.43 min Scan# 610

Delta R.T. -0.04 min

Lab File: VD062101.D

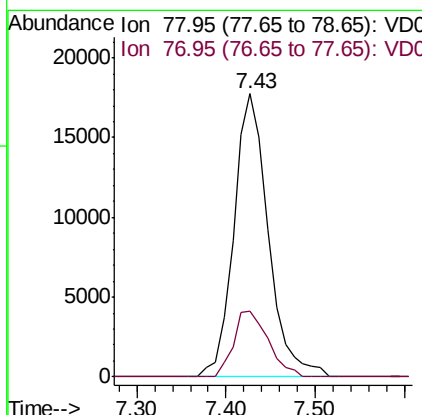
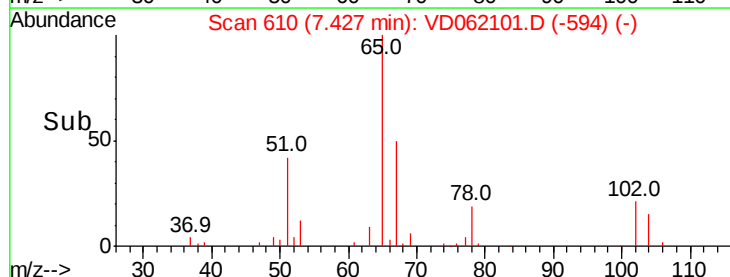
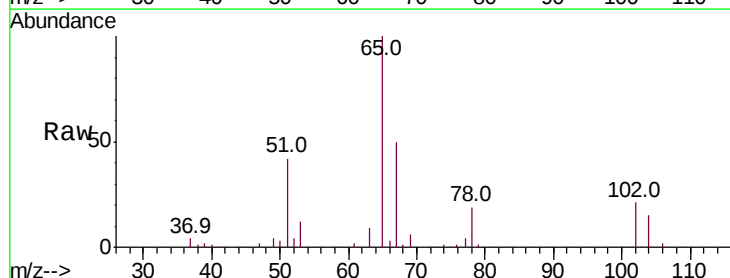
Acq: 1 May 2019 14:27

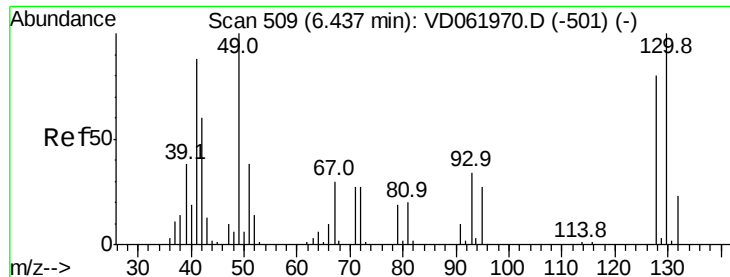
Tgt Ion: 78 Resp: 47652

Ion Ratio Lower Upper

78 100

77 23.2 19.7 29.5

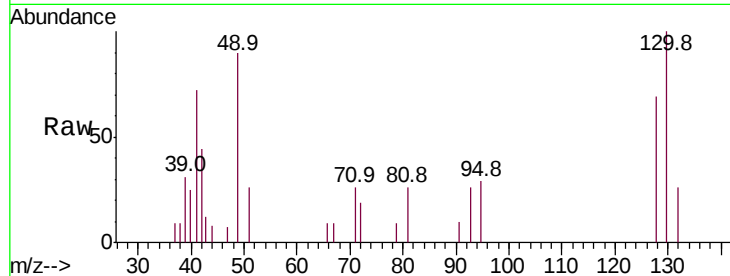




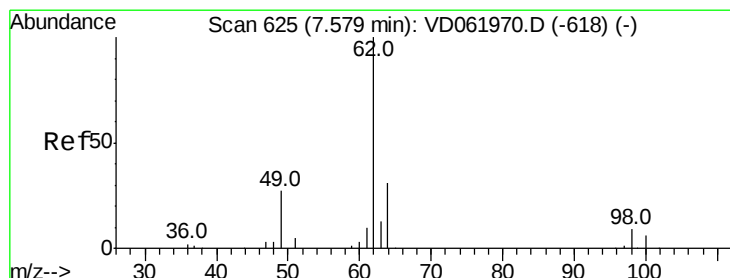
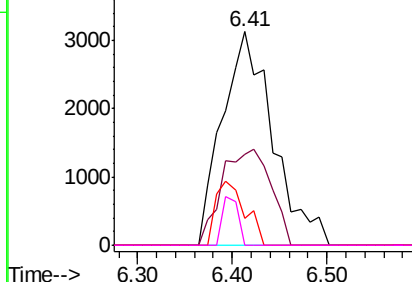
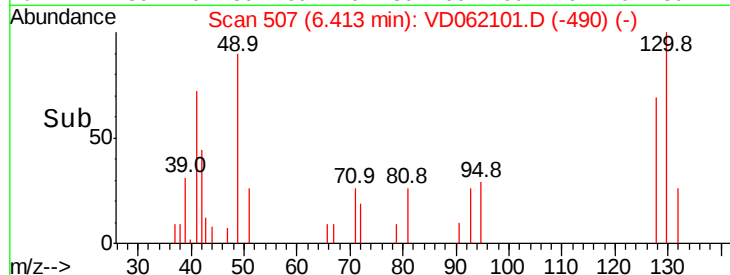
#41
Methacrylonitrile
Concen: 3.163 ug/l
RT: 6.41 min Scan# 507
Delta R.T. -0.03 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

Tot Ion: 41 Resp: 11657
Ion Ratio Lower Upper
41 100
39 42.5 34.1 51.1
67 12.5 23.8 35.6#
52 0.0 8.8 13.2#

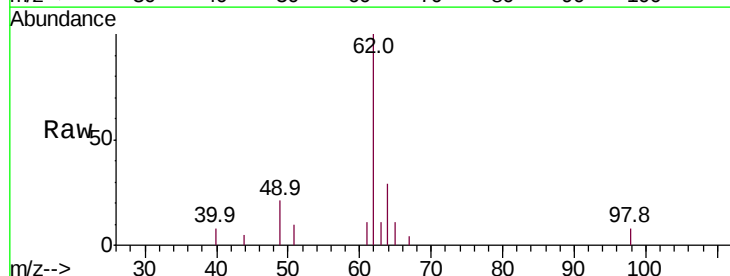


Abundance Ion 40.95 (40.65 to 41.65): VDC
Ion 38.95 (38.65 to 39.65): VDC
Ion 67.00 (66.70 to 67.70): VDC
Ion 52.00 (51.70 to 52.70): VDC

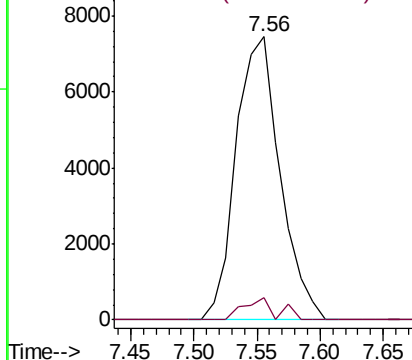
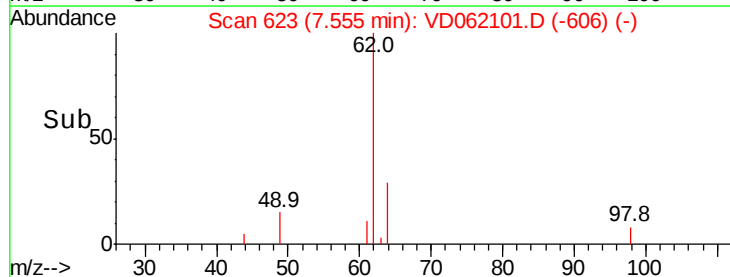


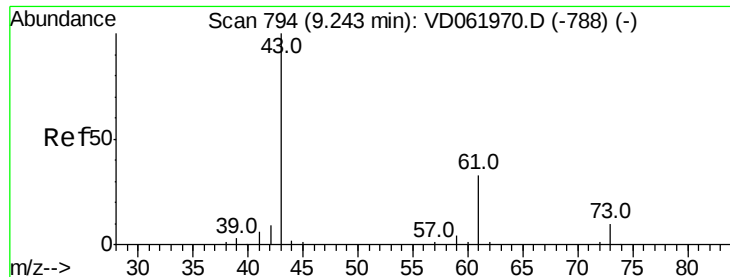
#42
1,2-Dichloroethane
Concen: 2.894 ug/l
RT: 7.56 min Scan# 623
Delta R.T. -0.03 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Tgt Ion: 62 Resp: 18031
Ion Ratio Lower Upper
62 100
98 8.0 0.0 17.8



Abundance Ion 61.95 (61.65 to 62.65): VDC
Ion 97.85 (97.55 to 98.55): VDC





#43

Isopropyl Acetate

Concen: 2.271 ug/l

RT: 9.22 min Scan# 792

Delta R.T. -0.03 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

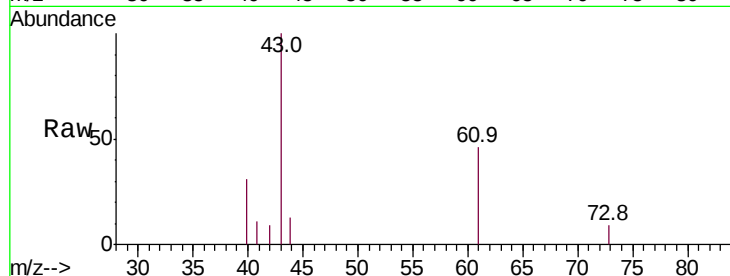
Tot Ion: 43 Resp: 10482

Ion Ratio Lower Upper

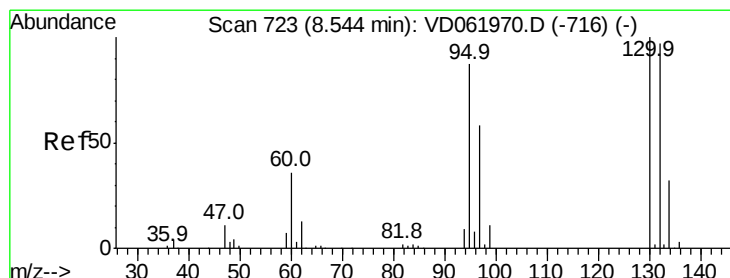
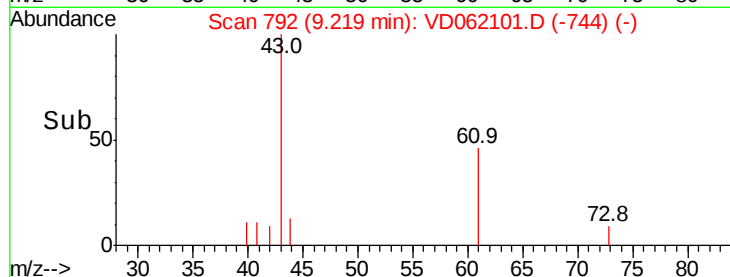
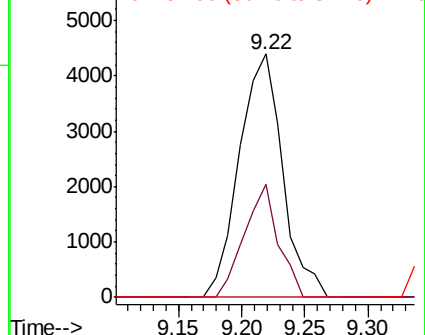
43 100

61 46.3 25.1 37.7#

87 0.0 0.0 0.0



Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 60.95 (60.65 to 61.65): VDC
Ion 87.00 (86.70 to 87.70): VDC



#44

Trichloroethene

Concen: 2.835 ug/l

RT: 8.51 min Scan# 720

Delta R.T. -0.04 min

Lab File: VD062101.D

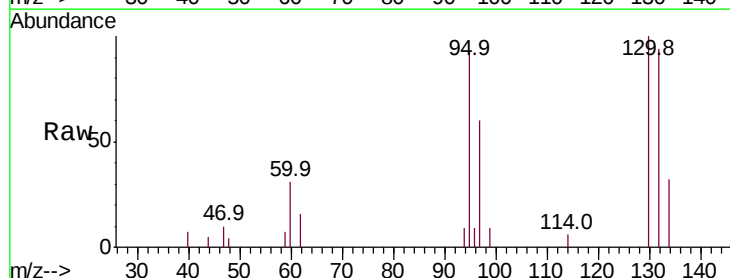
Acq: 1 May 2019 14:27

Tgt Ion:130 Resp: 20166

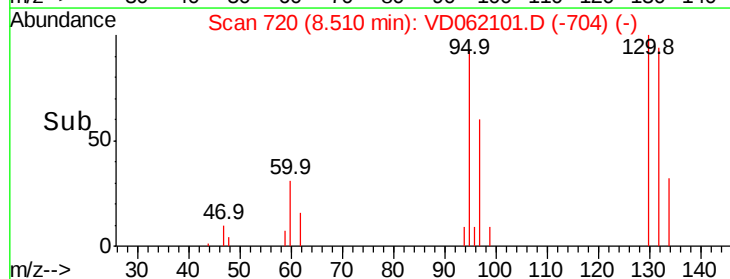
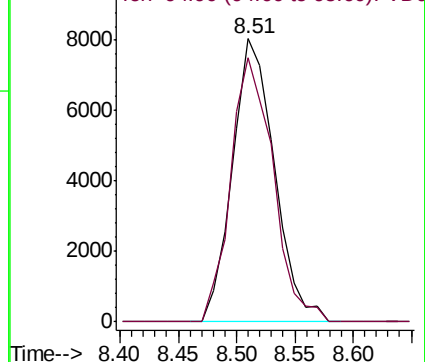
Ion Ratio Lower Upper

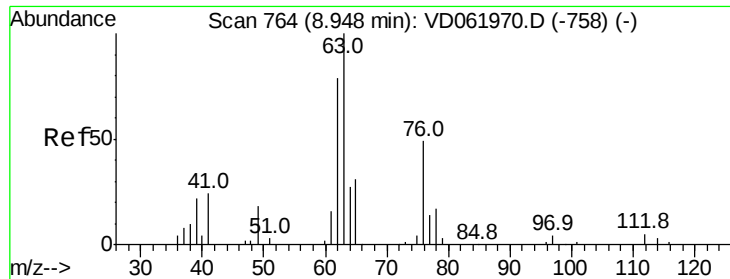
130 100

95 93.3 0.0 174.0



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





#45

1,2-Dichloropropane

Concen: 2.683 ug/l

RT: 8.90 min Scan# 760

Delta R.T. -0.04 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

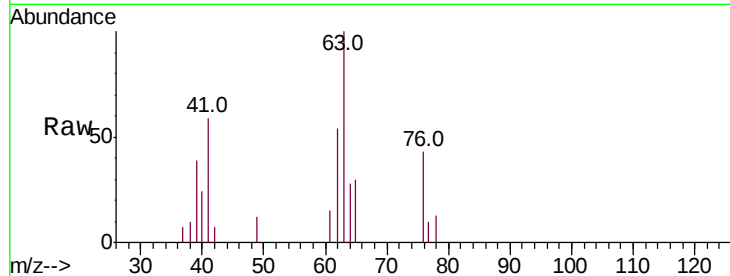
MDL-MDL-SOIL-03-QT2-2019

Tot Ion: 63 Resp: 12490

Ion Ratio Lower Upper

63 100

65 29.6 23.8 35.6



Abundance Ion 62.95 (62.65 to 63.65): VDC

Ion 64.95 (64.65 to 65.65): VDC

8.90

6000

5000

4000

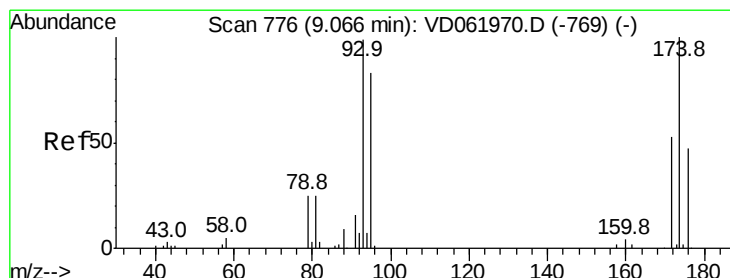
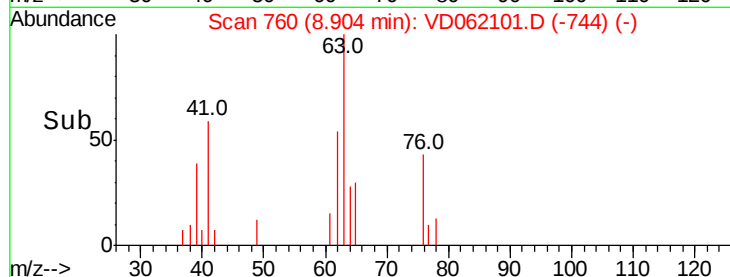
3000

2000

1000

0

Time--> 8.80 8.85 8.90 8.95 9.00



#46

Dibromomethane

Concen: 2.592 ug/l

RT: 9.03 min Scan# 773

Delta R.T. -0.04 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

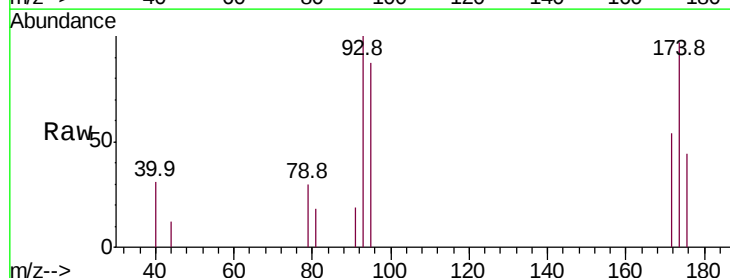
Tgt Ion: 93 Resp: 8684

Ion Ratio Lower Upper

93 100

95 87.5 64.8 97.2

174 96.7 79.3 118.9



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

5000

4000

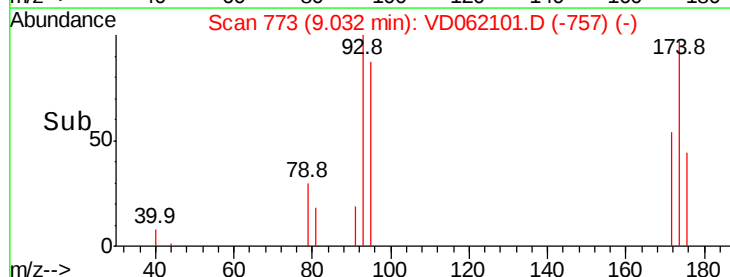
3000

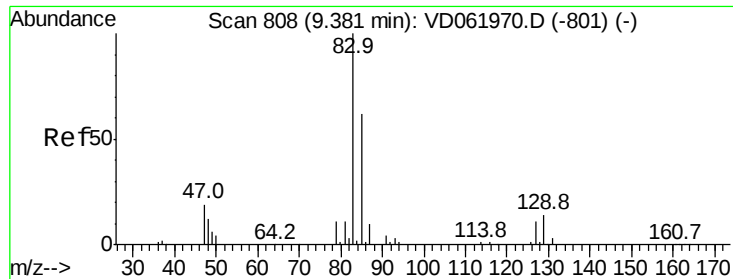
2000

1000

0

Time--> 8.95 9.00 9.05 9.10





#47

Bromodichloromethane

Concen: 2.420 ug/l

RT: 9.36 min Scan# 806

Delta R.T. -0.03 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

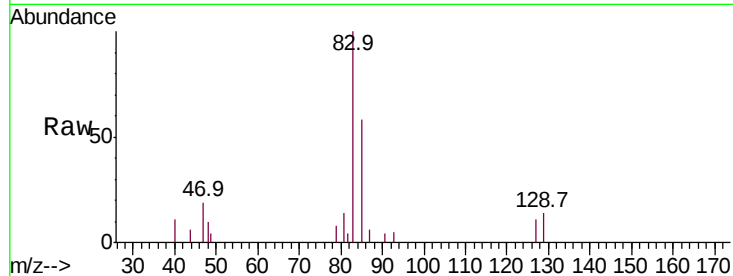
Tot Ion: 83 Resp: 19158

Ion Ratio Lower Upper

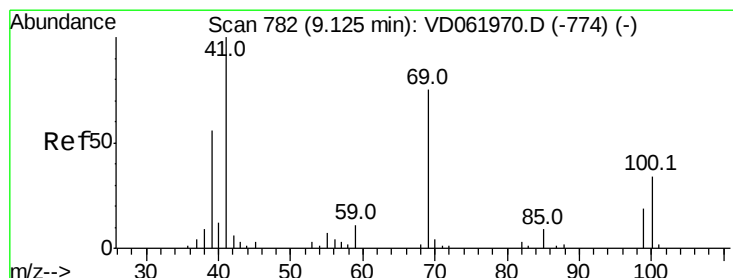
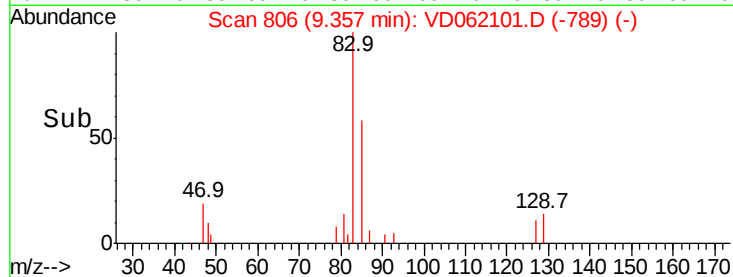
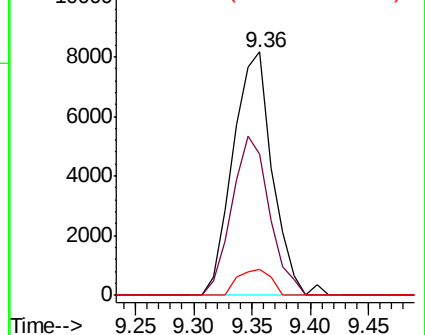
83 100

85 58.0 50.9 76.3

127 10.6 8.1 12.1



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): VDC



#48

Methyl methacrylate

Concen: 2.896 ug/l

RT: 9.09 min Scan# 779

Delta R.T. -0.04 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

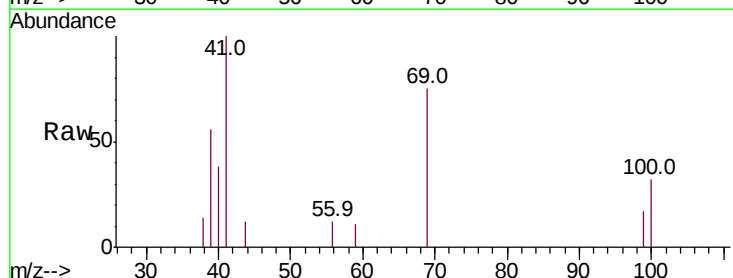
Tgt Ion: 41 Resp: 7627

Ion Ratio Lower Upper

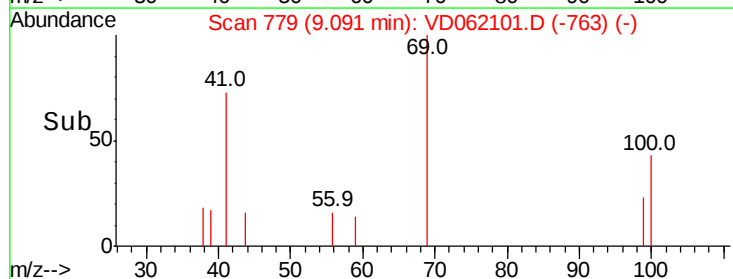
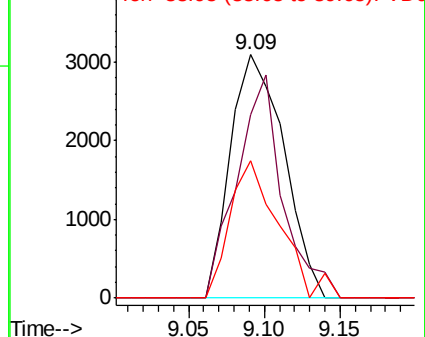
41 100

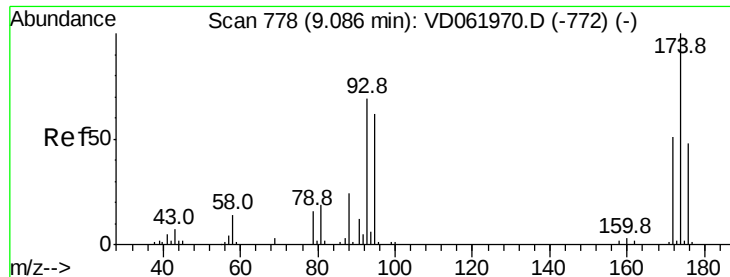
69 75.1 64.2 96.2

39 56.4 46.8 70.2



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: 39.486 ug/l

RT: 9.05 min Scan# 775

Delta R.T. -0.03 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

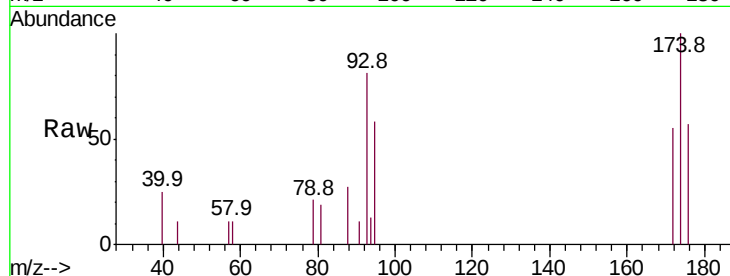
Tot Ion: 88 Resp: 1121

Ion Ratio Lower Upper

88 100

43 42.3 23.4 35.0#

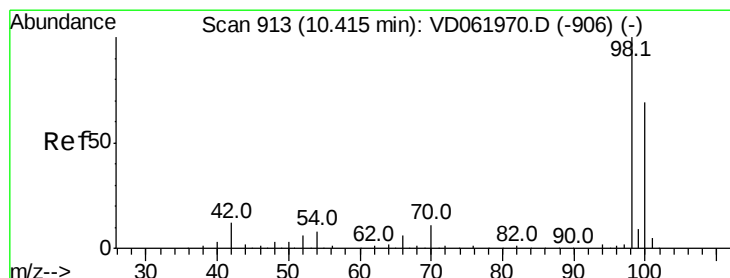
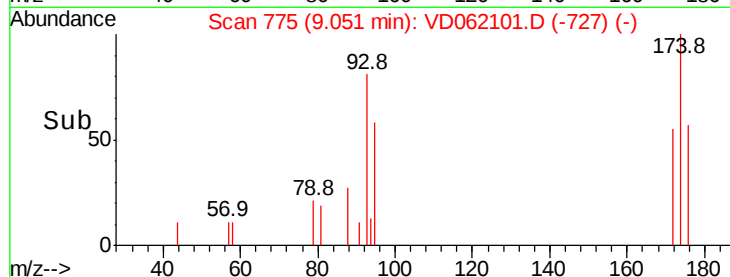
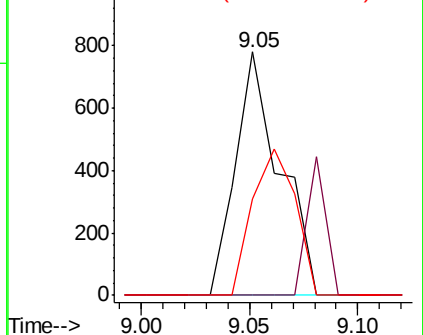
58 39.6 44.0 66.0#



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: 57.780 ug/l

RT: 10.38 min Scan# 910

Delta R.T. -0.04 min

Lab File: VD062101.D

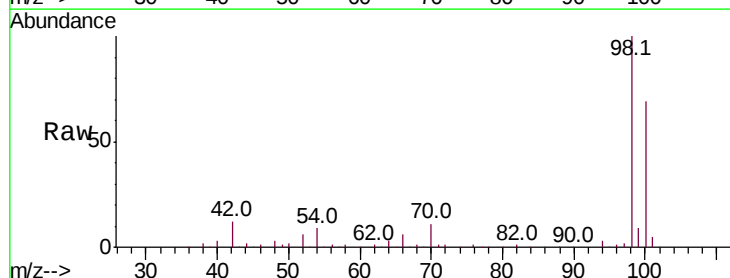
Acq: 1 May 2019 14:27

Tgt Ion: 98 Resp: 904655

Ion Ratio Lower Upper

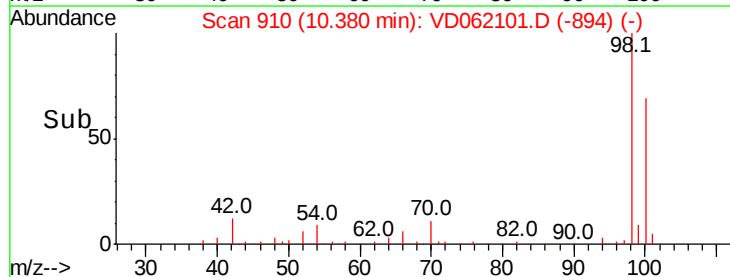
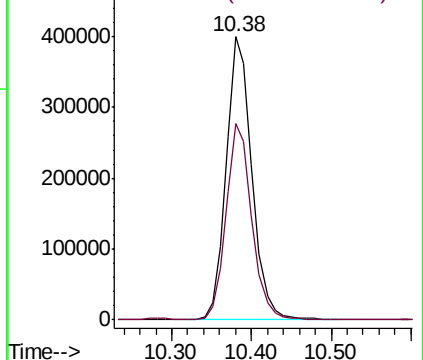
98 100

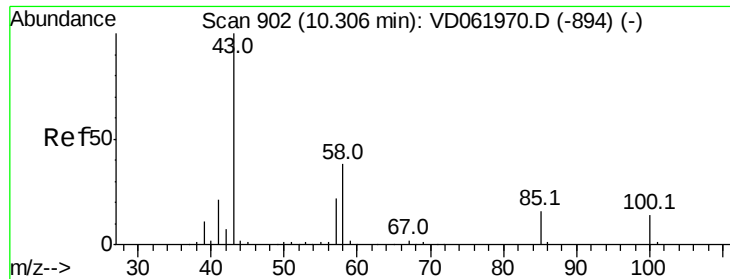
100 69.4 53.8 80.8



Abundance Ion 98.05 (97.75 to 98.75): VDC

Ion 100.05 (99.75 to 100.75): VDC





#51

4-Methyl-2-Pentanone

Concen: 14.665 ug/l

RT: 10.27 min Scan# 899

Delta R.T. -0.03 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

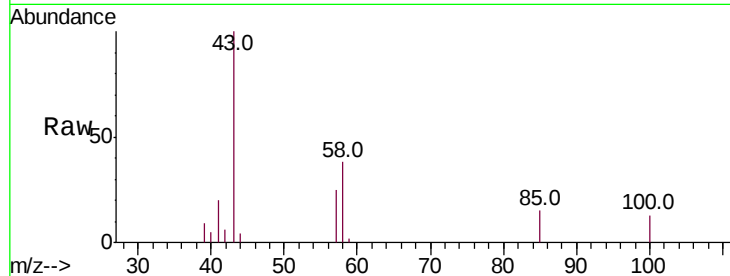
MDL-MDL-SOIL-03-QT2-2019

Tot Ion: 43 Resp: 41393

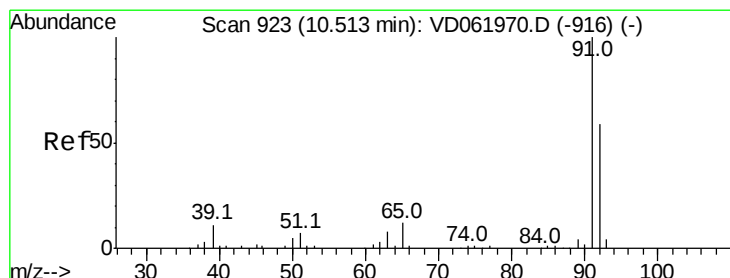
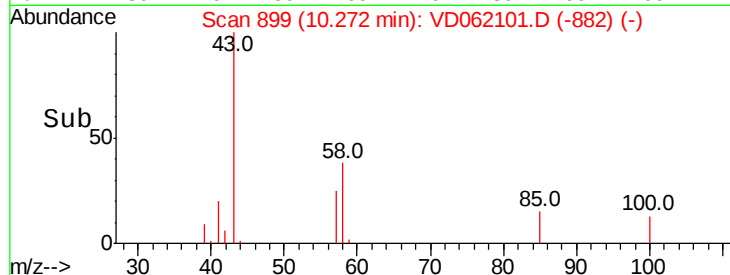
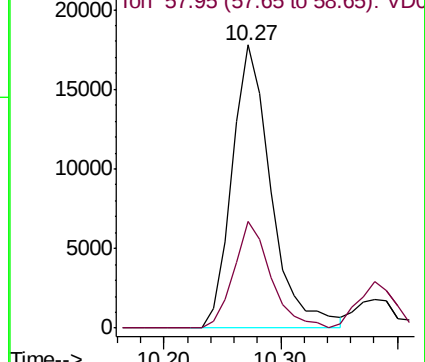
Ion Ratio Lower Upper

43 100

58 37.8 30.4 45.6



Abundance Ion 42.95 (42.65 to 43.65): VDC



#52

Toluene

Concen: 2.766 ug/l

RT: 10.49 min Scan# 921

Delta R.T. -0.03 min

Lab File: VD062101.D

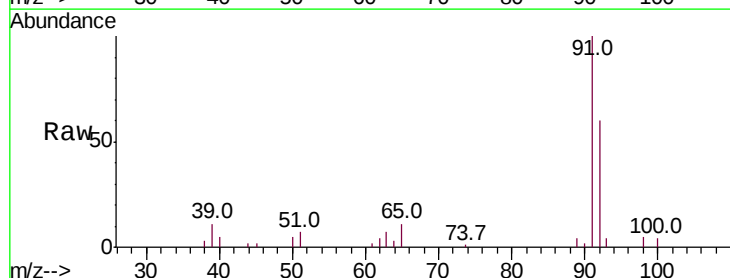
Acq: 1 May 2019 14:27

Tgt Ion: 92 Resp: 32367

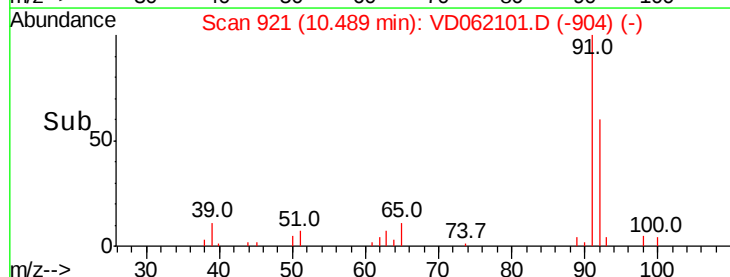
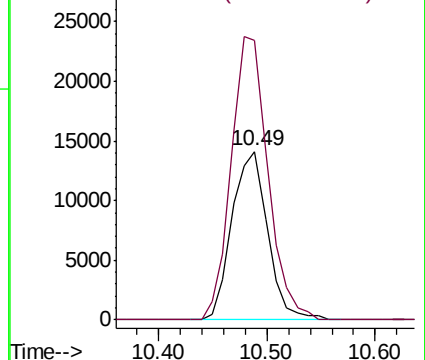
Ion Ratio Lower Upper

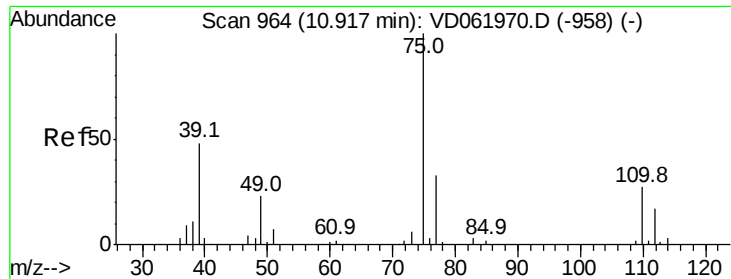
92 100

91 166.2 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

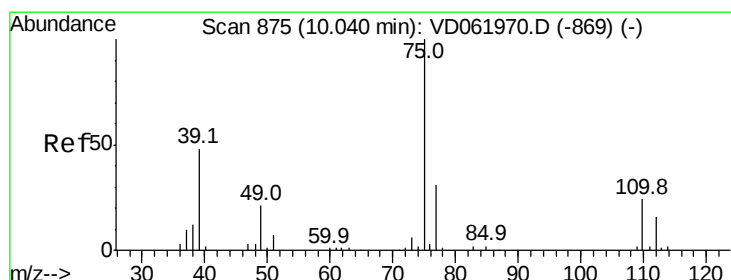
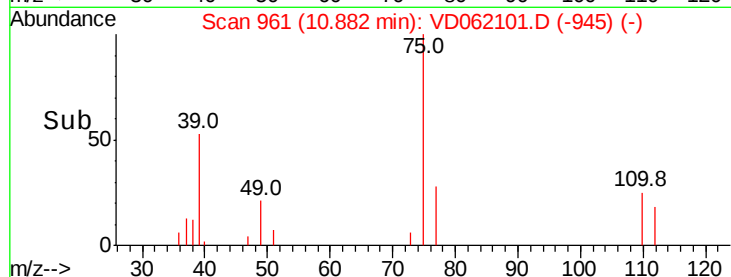
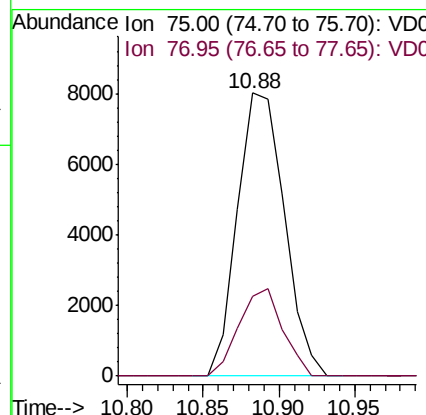
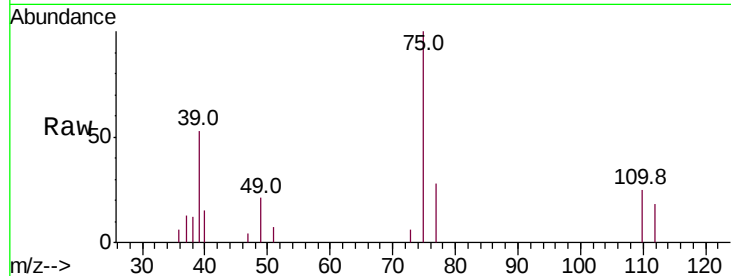




#53
t-1,3-Dichloropropene
Concen: 2.606 ug/l
RT: 10.88 min Scan# 961
Delta R.T. -0.04 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

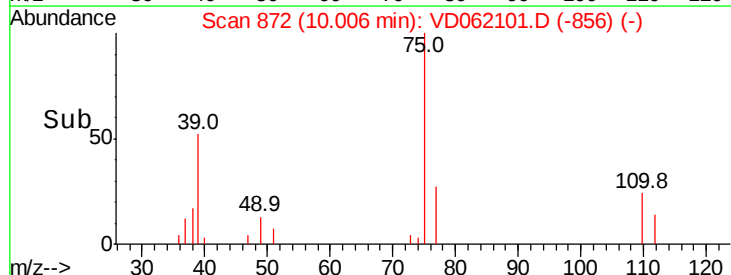
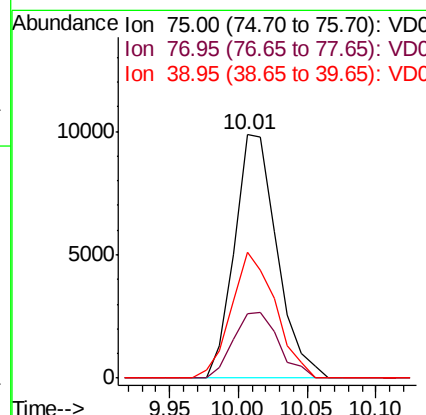
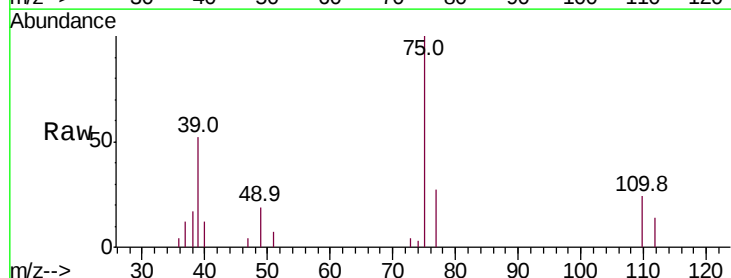
Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

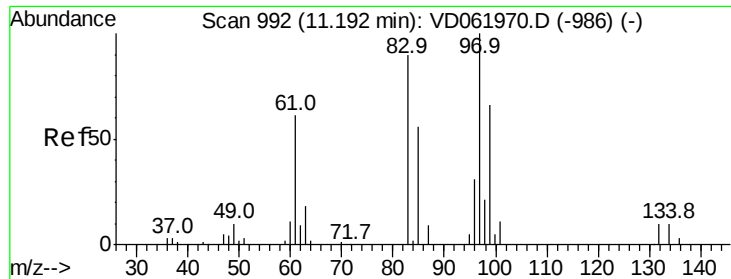
Tot Ion: 75 Resp: 17314
Ion Ratio Lower Upper
75 100
77 28.2 25.8 38.8



#54
cis-1,3-Dichloropropene
Concen: 2.626 ug/l
RT: 10.01 min Scan# 872
Delta R.T. -0.04 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Tgt Ion: 75 Resp: 21220
Ion Ratio Lower Upper
75 100
77 26.6 25.5 38.3
39 51.9 39.4 59.2

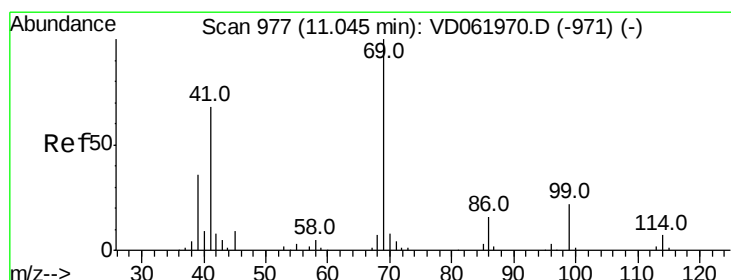
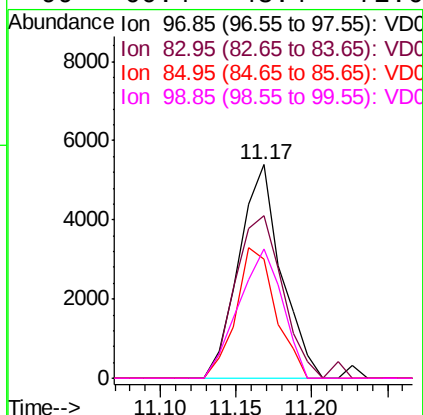
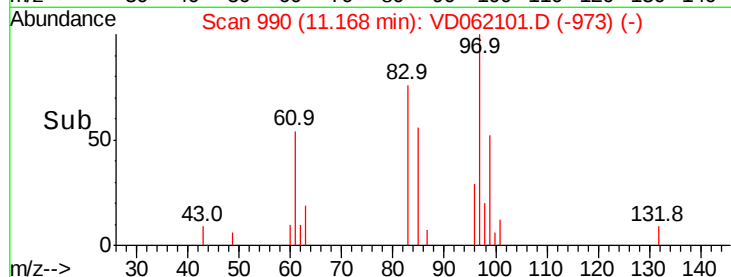
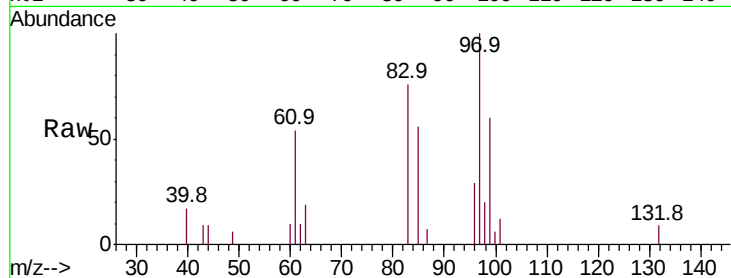




#55
 1,1,2-Trichloroethane
 Concen: 2.677 ug/l
 RT: 11.17 min Scan# 990
 Delta R.T. -0.03 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

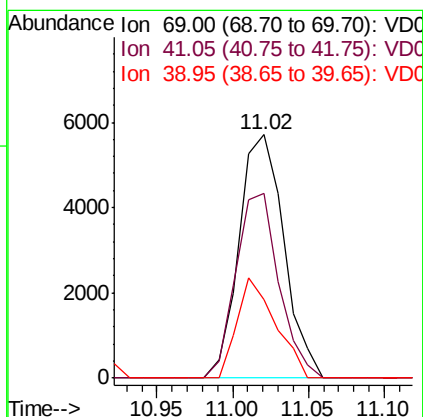
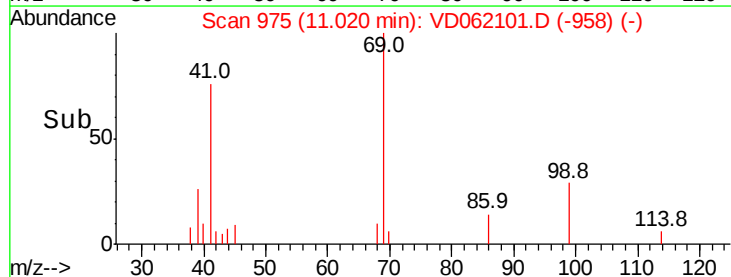
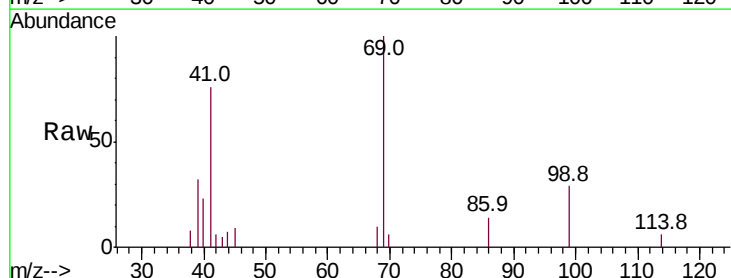
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

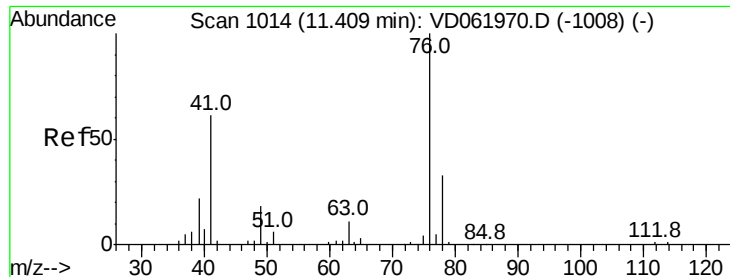
Tot Ion:	97	Resp:	10517
Ion	Ratio	Lower	Upper
97	100		
83	76.0	65.7	98.5
85	55.8	45.6	68.4
99	60.4	48.4	72.6



#56
 Ethyl methacrylate
 Concen: 2.708 ug/l
 RT: 11.02 min Scan# 975
 Delta R.T. -0.03 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

Tgt Ion:	69	Resp:	11781
Ion	Ratio	Lower	Upper
69	100		
41	75.9	56.3	84.5
39	32.2	29.4	44.2





#57

1,3-Dichloropropane

Concen: 2.567 ug/l

RT: 11.37 min Scan# 1011

Delta R.T. -0.04 min

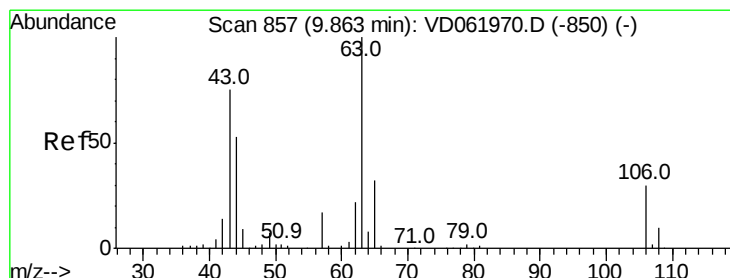
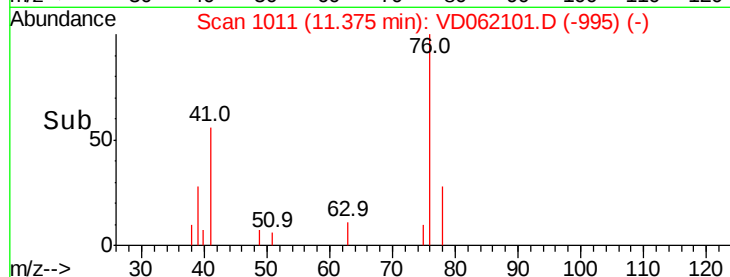
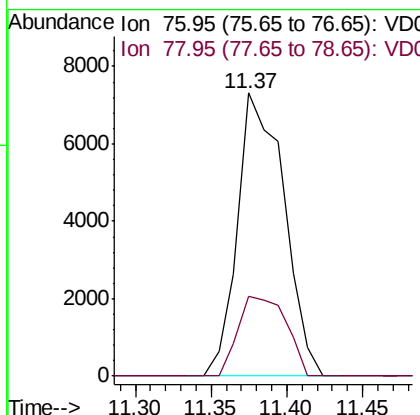
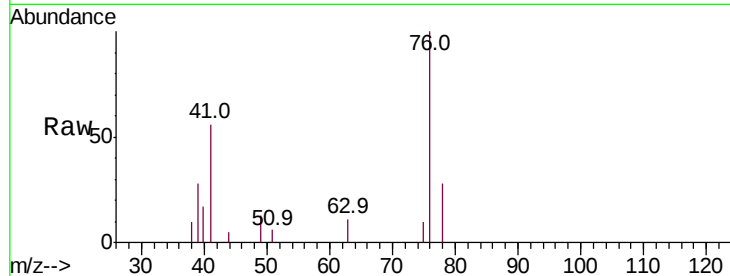
Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

Tot Ion: 76 Resp: 15577

Ion	Ratio	Lower	Upper
76	100		
78	28.3	26.2	39.2



#58

2-Chloroethyl Vinyl ether

Concen: 17.610 ug/l

RT: 9.83 min Scan# 854

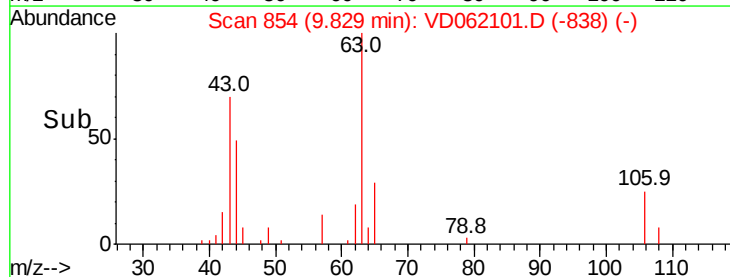
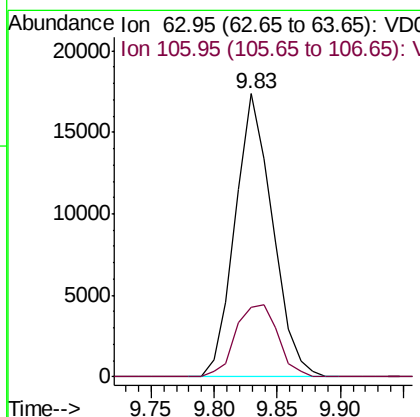
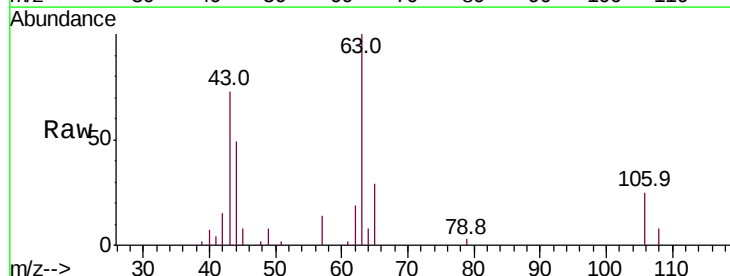
Delta R.T. -0.04 min

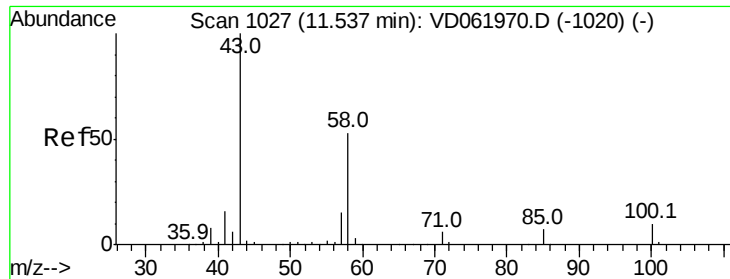
Lab File: VD062101.D

Acq: 1 May 2019 14:27

Tgt Ion: 63 Resp: 35620

Ion	Ratio	Lower	Upper
63	100		
106	24.5	22.6	34.0

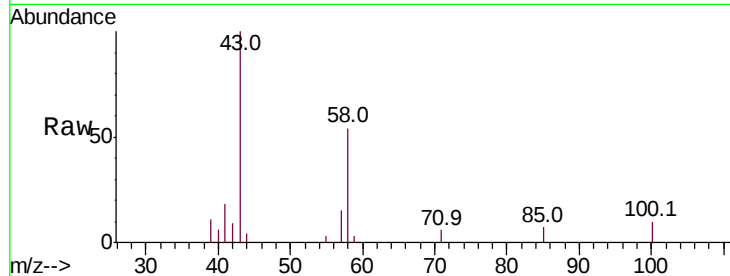




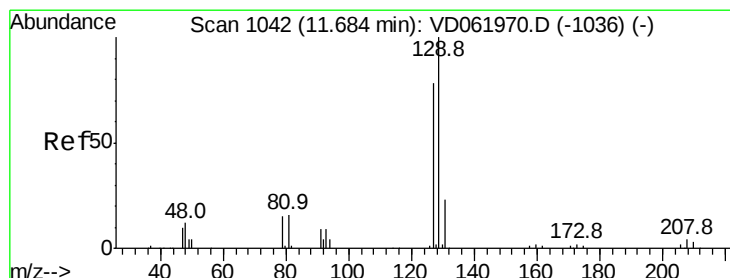
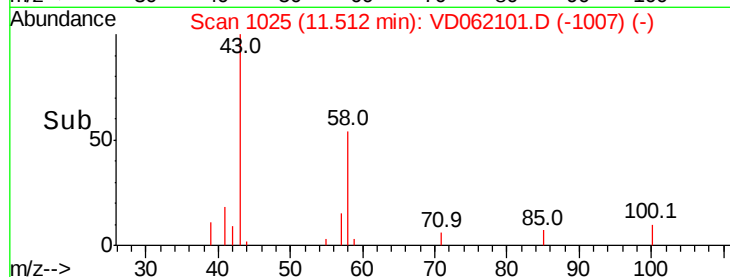
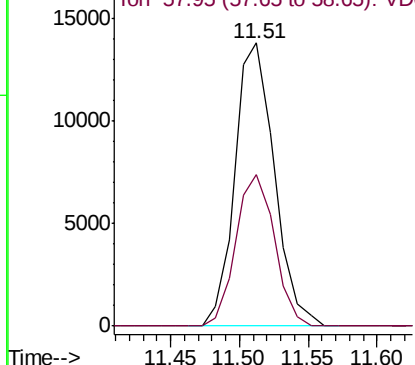
#59
2-Hexanone
Concen: 13.000 ug/l
RT: 11.51 min Scan# 1025
Delta R.T. -0.02 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

Tot Ion: 43 Resp: 27525
Ion Ratio Lower Upper
43 100
58 53.5 25.4 76.4

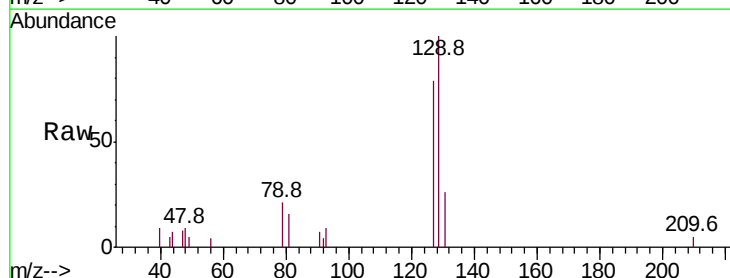


Abundance Ion 42.95 (42.65 to 43.65): VDC
Ion 57.95 (57.65 to 58.65): VDC

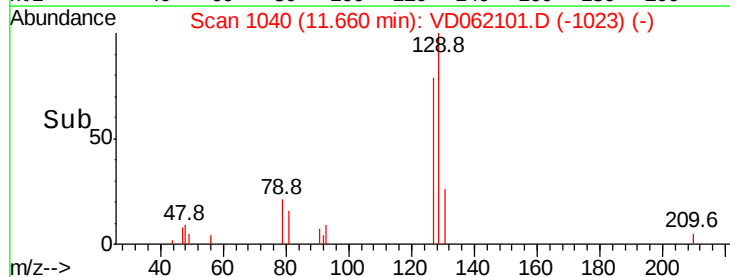
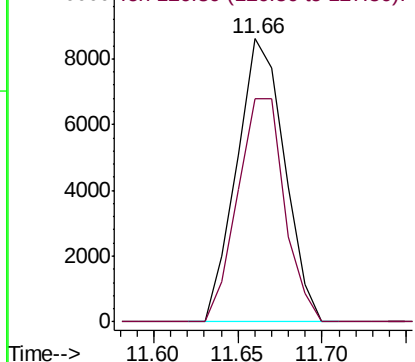


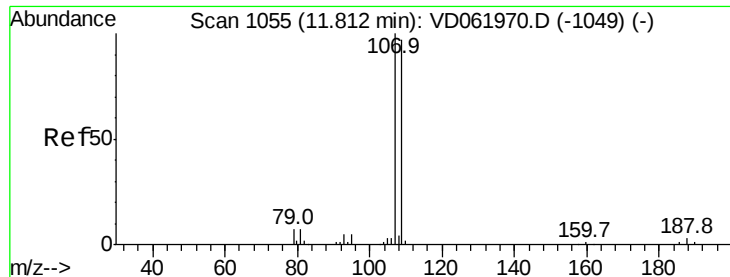
#60
Dibromochloromethane
Concen: 2.602 ug/l
RT: 11.66 min Scan# 1040
Delta R.T. -0.03 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Tgt Ion:129 Resp: 16910
Ion Ratio Lower Upper
129 100
127 79.0 38.0 113.9



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

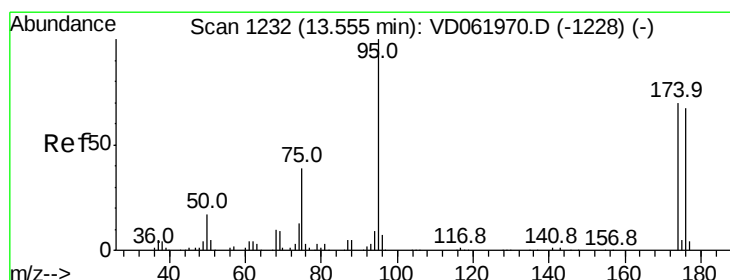
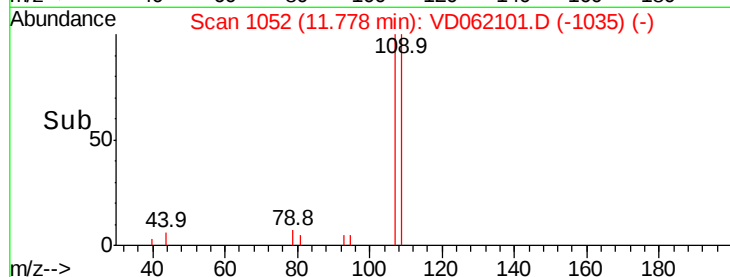
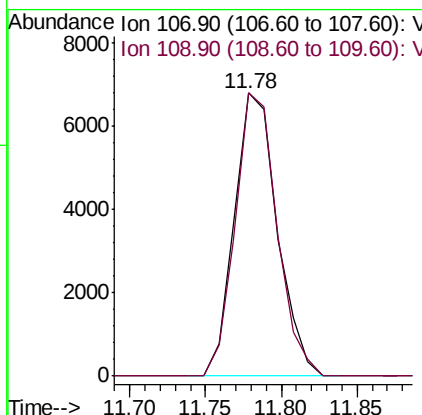
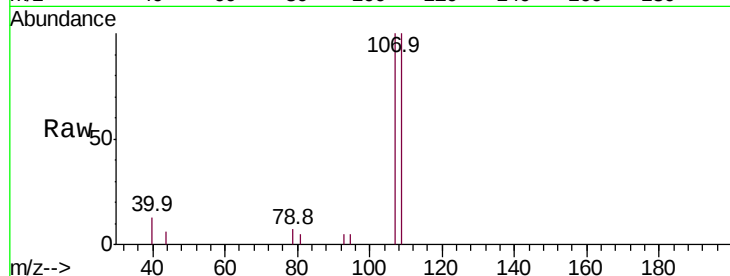




#61
 1,2-Dibromoethane
 Concen: 2.861 ug/l
 RT: 11.78 min Scan# 1052
 Delta R.T. -0.03 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

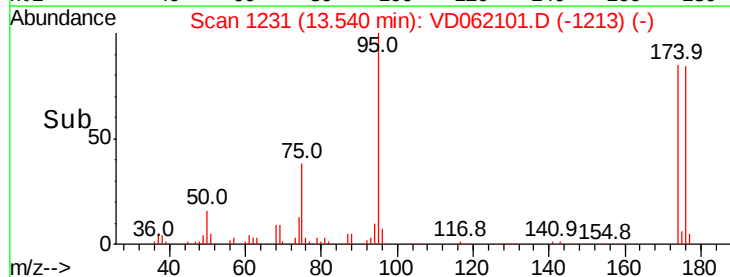
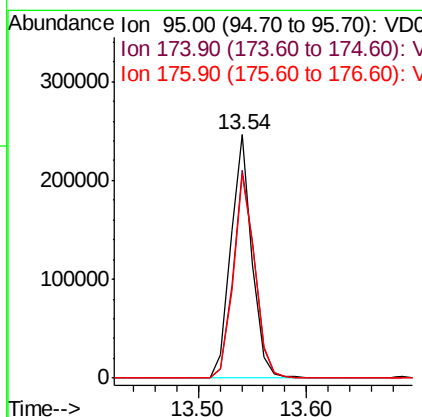
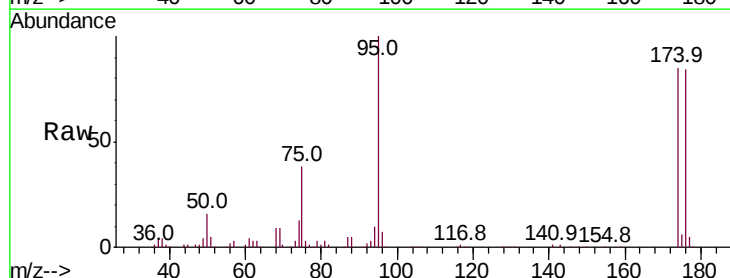
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

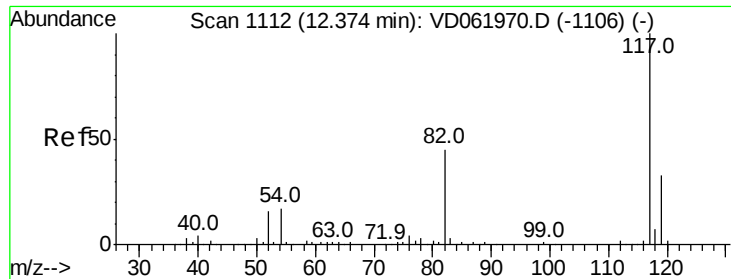
Tot Ion:107 Resp: 13330
 Ion Ratio Lower Upper
 107 100
 109 100.1 78.3 117.5



#62
 4-Bromofluorobenzene
 Concen: 52.987 ug/l
 RT: 13.54 min Scan# 1231
 Delta R.T. -0.02 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

Tgt Ion: 95 Resp: 332750
 Ion Ratio Lower Upper
 95 100
 174 85.2 0.0 181.8
 176 83.9 0.0 174.4

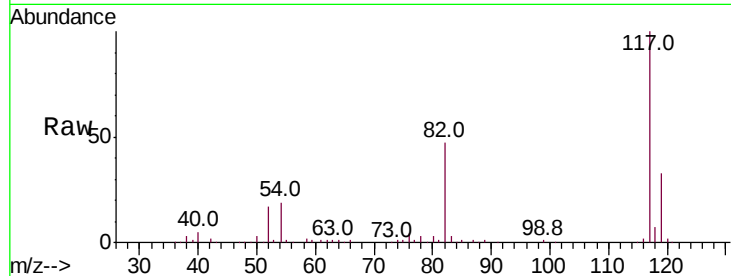




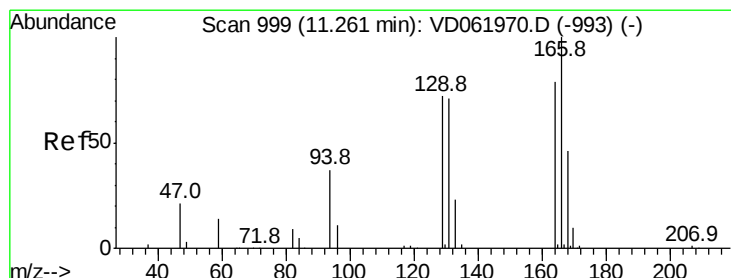
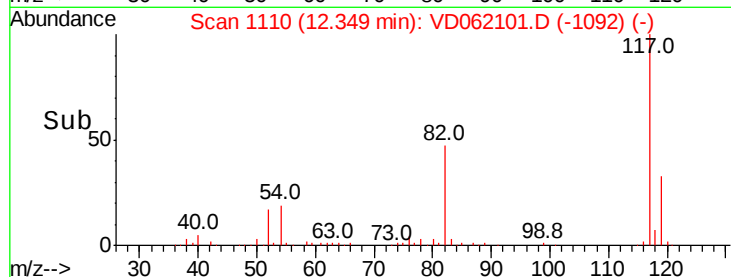
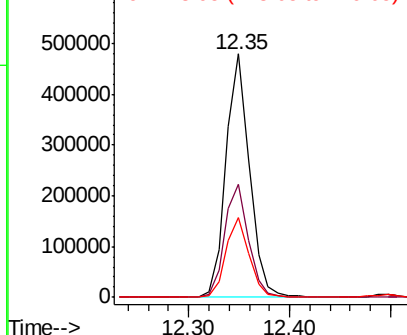
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 12.35 min Scan# 1110
Delta R.T. -0.02 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

Tot Ion:117 Resp: 775002
Ion Ratio Lower Upper
117 100
82 46.6 36.2 54.2
119 32.7 26.2 39.4

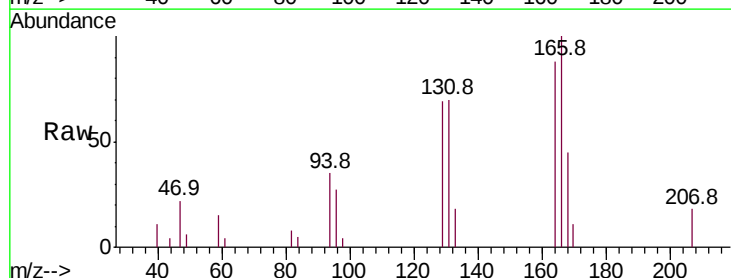


Abundance Ion 116.95 (116.65 to 117.65): V
Ion 82.05 (81.75 to 82.75): V
Ion 118.95 (118.65 to 119.65): V

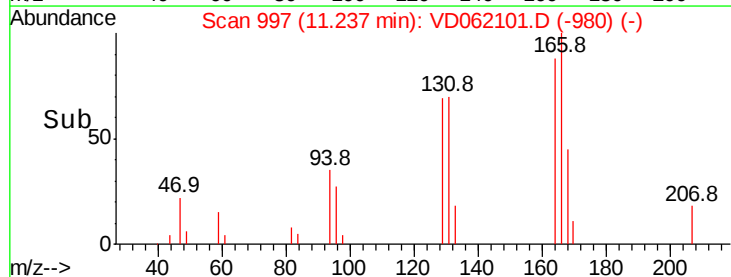
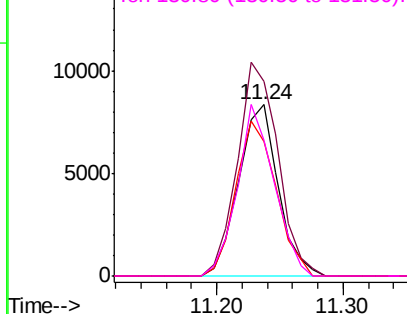


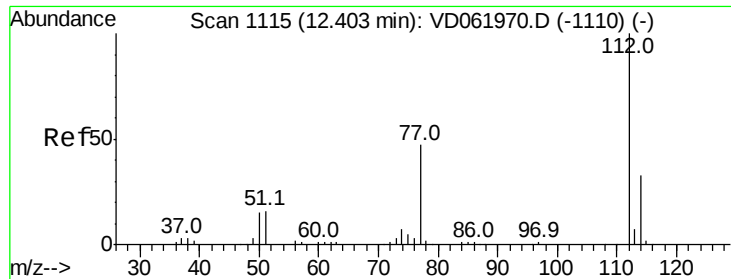
#64
Tetrachloroethene
Concen: 3.284 ug/l
RT: 11.24 min Scan# 997
Delta R.T. -0.03 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Tgt Ion:164 Resp: 18155
Ion Ratio Lower Upper
164 100
166 113.8 101.5 152.3
129 78.3 74.6 112.0
131 79.3 72.6 108.8



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

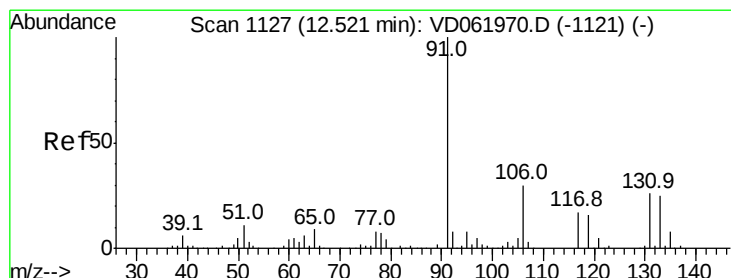
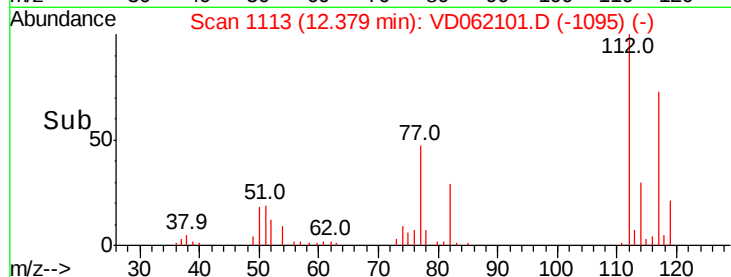
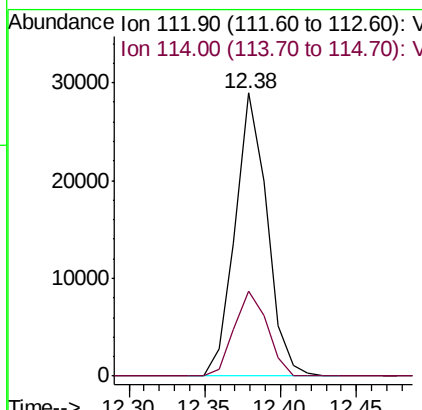
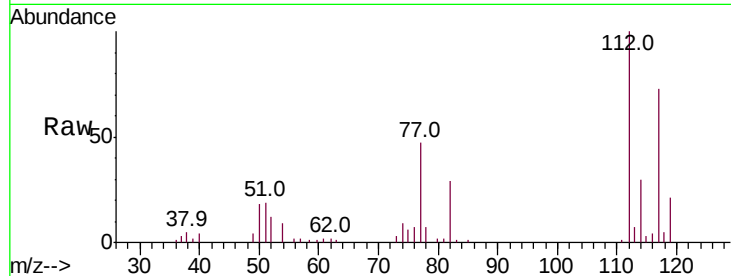




#65
Chlorobenzene
Concen: 2.895 ug/l
RT: 12.38 min Scan# 1113
Delta R.T. -0.02 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

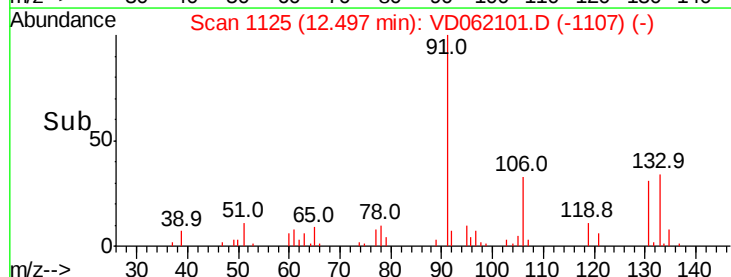
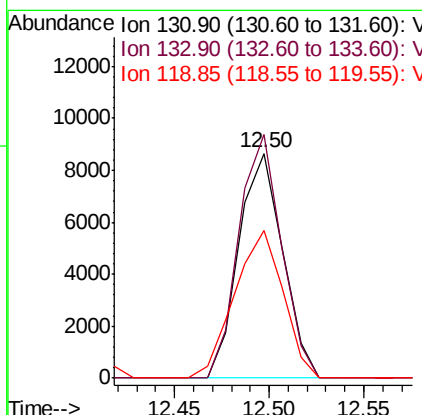
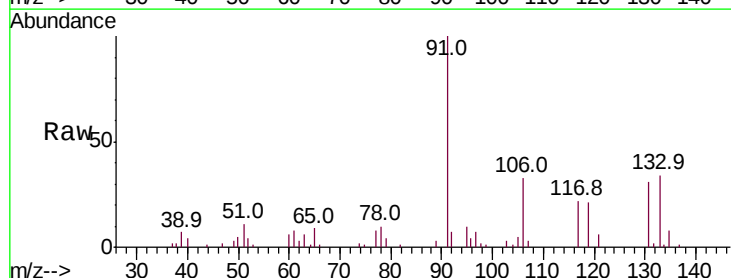
Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

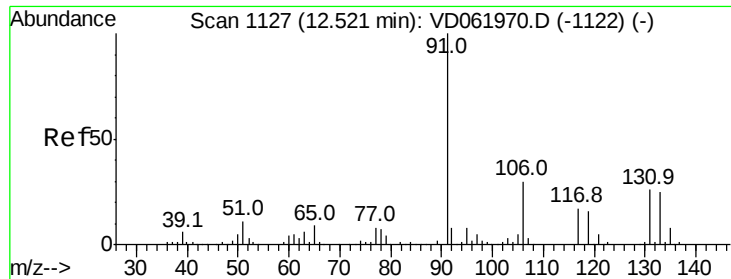
Tot Ion:112 Resp: 42397
Ion Ratio Lower Upper
112 100
114 30.1 25.8 38.8



#66
1,1,1,2-Tetrachloroethane
Concen: 2.243 ug/l
RT: 12.50 min Scan# 1125
Delta R.T. -0.02 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Tgt Ion:131 Resp: 13931
Ion Ratio Lower Upper
131 100
133 108.4 48.6 145.8
119 65.5 34.7 104.1





#67

Ethyl Benzene

Concen: 2.638 ug/l

RT: 12.51 min Scan# 1126

Delta R.T. -0.02 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

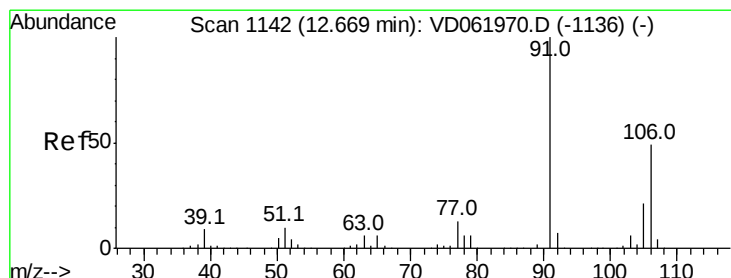
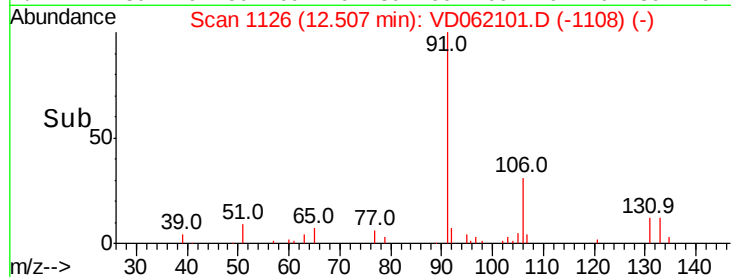
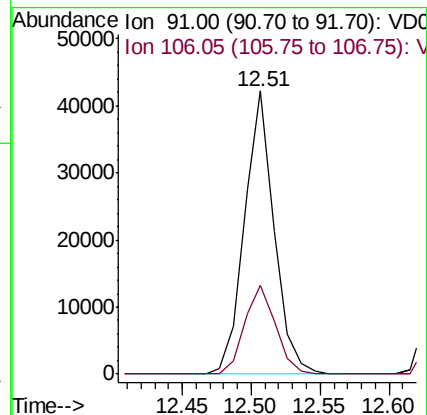
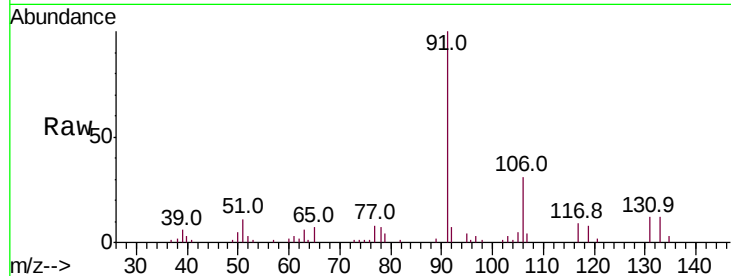
MDL-MDL-SOIL-03-QT2-2019

Tot Ion: 91 Resp: 63046

Ion Ratio Lower Upper

91 100

106 31.3 24.7 37.1



#68

m/p-Xylenes

Concen: 6.130 ug/l

RT: 12.65 min Scan# 1141

Delta R.T. -0.01 min

Lab File: VD062101.D

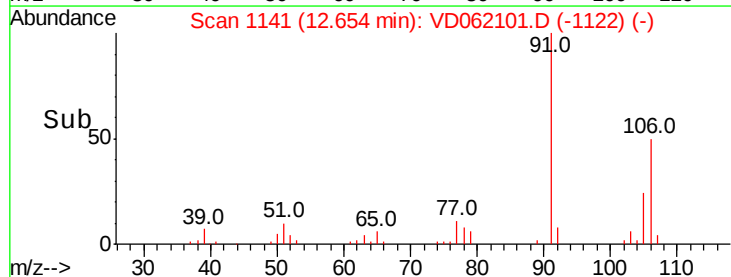
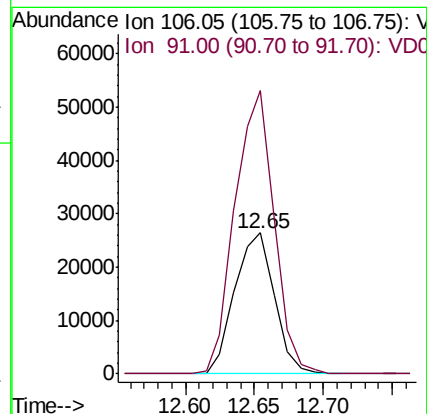
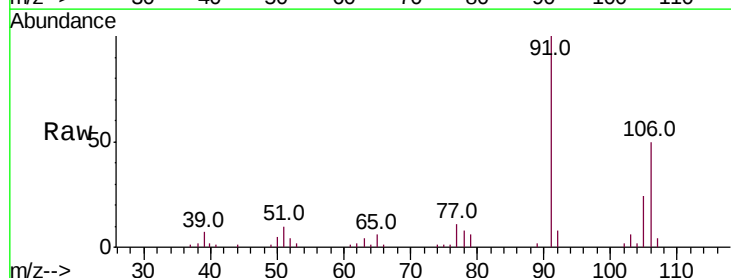
Acq: 1 May 2019 14:27

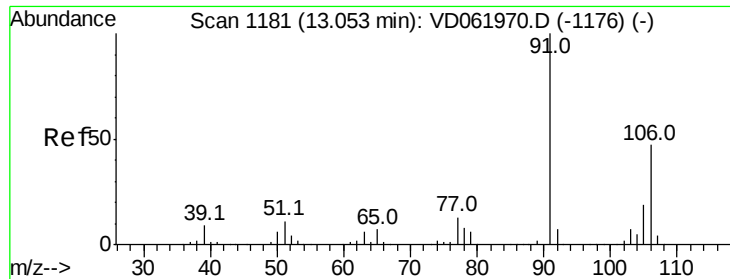
Tgt Ion:106 Resp: 52961

Ion Ratio Lower Upper

106 100

91 200.5 164.0 246.0

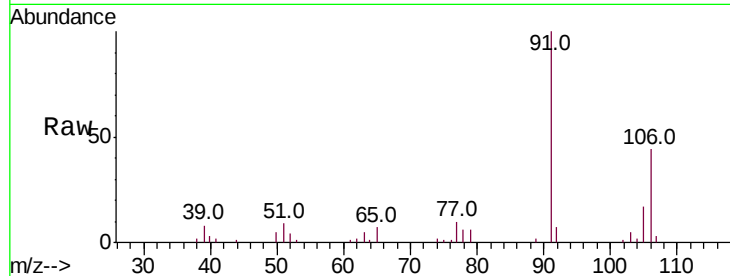




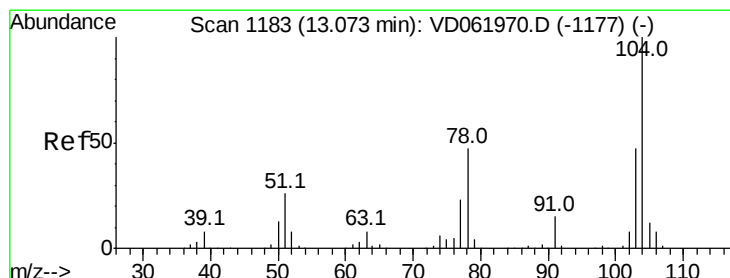
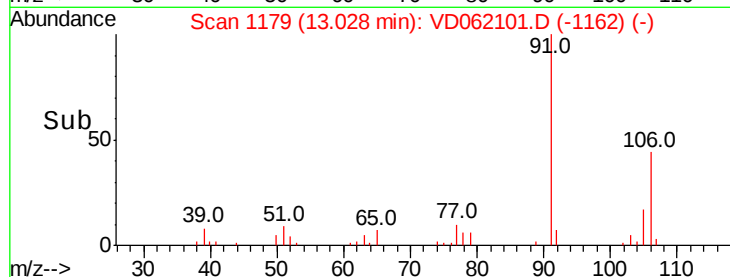
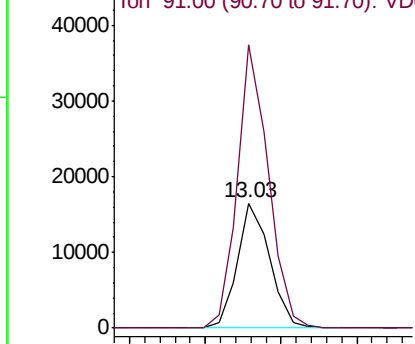
#69
o-Xylene
Concen: 3.101 ug/l
RT: 13.03 min Scan# 1179
Delta R.T. -0.03 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

Tot Ion:106 Resp: 24511
Ion Ratio Lower Upper
106 100
91 226.0 106.7 319.9

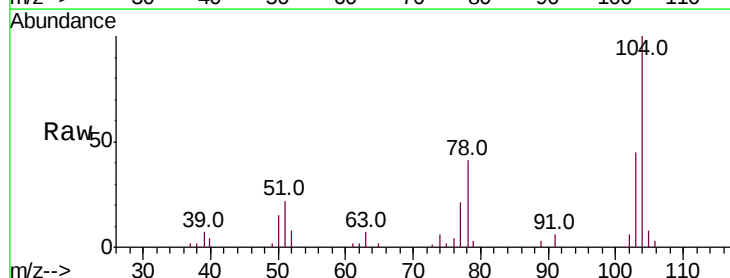


Abundance Ion 106.05 (105.75 to 106.75): V
Ion 91.00 (90.70 to 91.70): V

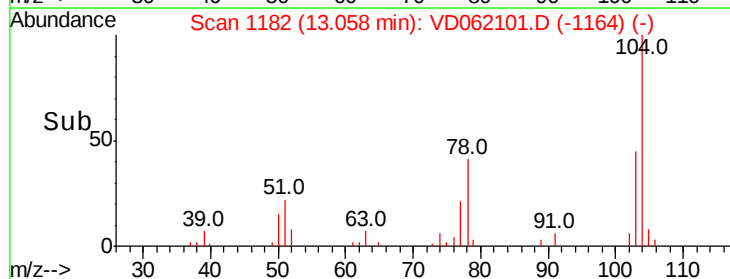
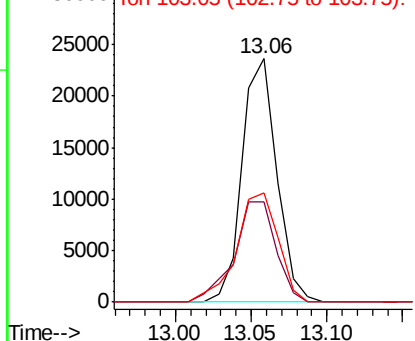


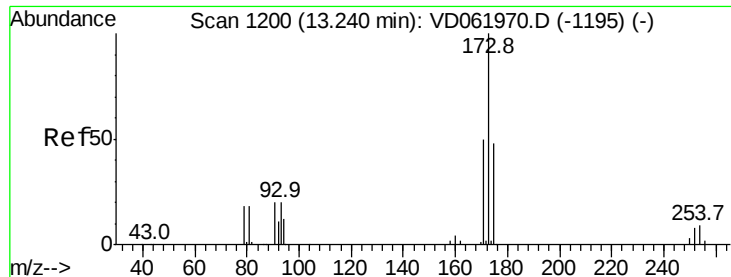
#70
Styrene
Concen: 2.760 ug/l
RT: 13.06 min Scan# 1182
Delta R.T. -0.02 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Tgt Ion:104 Resp: 37670
Ion Ratio Lower Upper
104 100
78 41.4 35.4 53.2
103 44.8 37.5 56.3



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

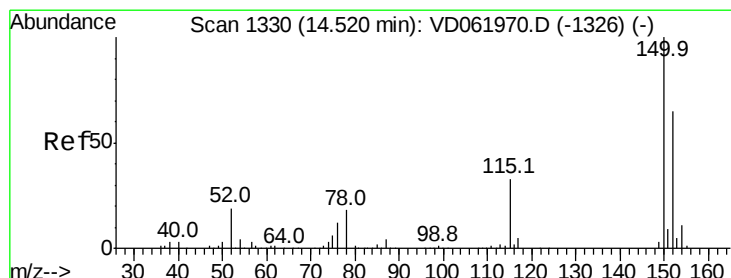
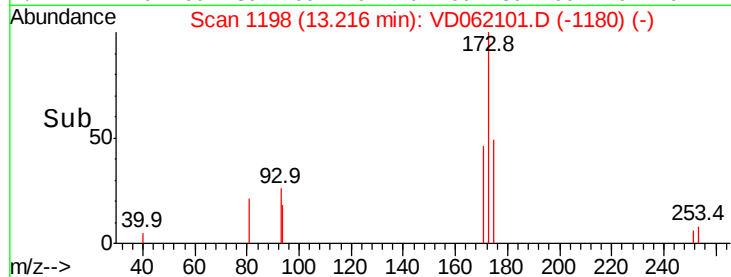
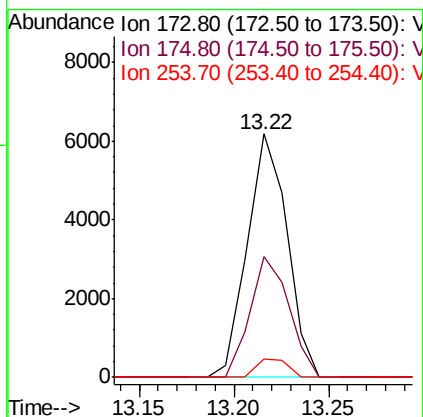
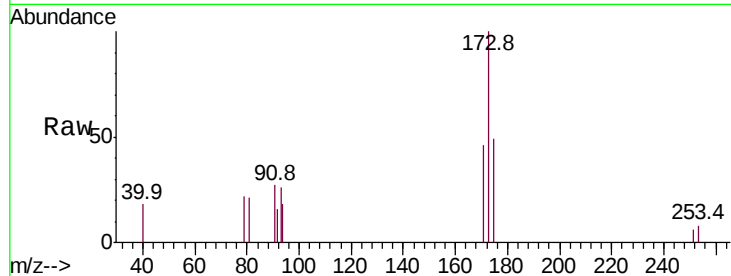




#71
Bromoform
Concen: 2.551 ug/l
RT: 13.22 min Scan# 1198
Delta R.T. -0.02 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

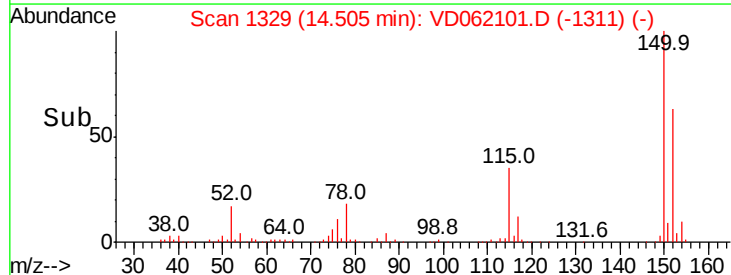
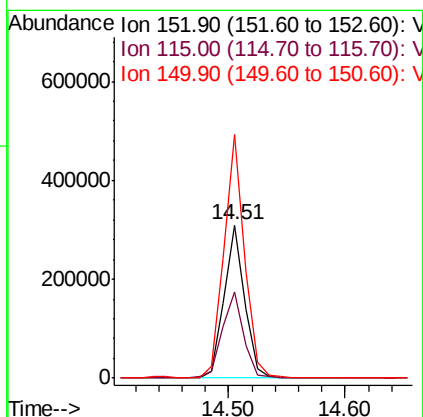
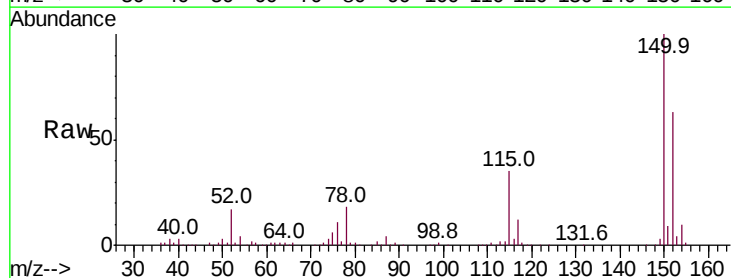
Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

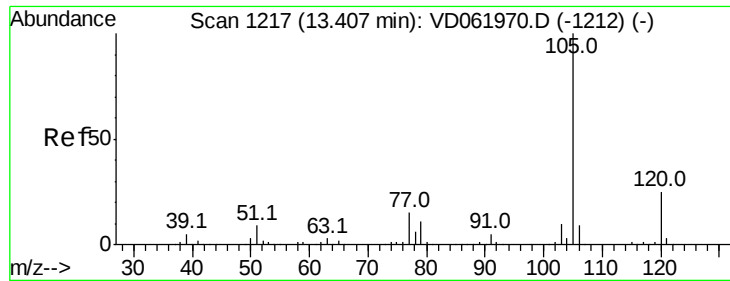
Tot Ion:173 Resp: 9035
Ion Ratio Lower Upper
173 100
175 49.4 24.4 73.4
254 7.7 5.4 8.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 14.51 min Scan# 1329
Delta R.T. -0.02 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Tgt Ion:152 Resp: 377509
Ion Ratio Lower Upper
152 100
115 56.4 30.9 92.7
150 159.0 0.0 314.8





#73

Isopropylbenzene

Concen: 2.400 ug/l

RT: 13.38 min Scan# 1215

Delta R.T. -0.02 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

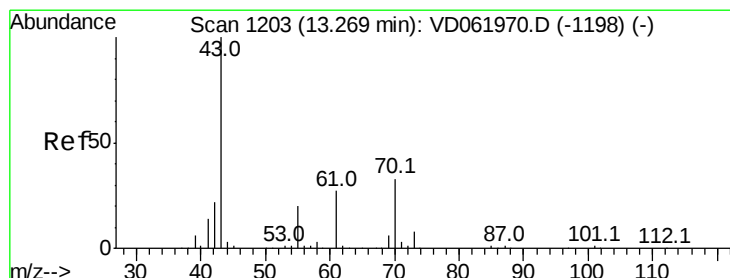
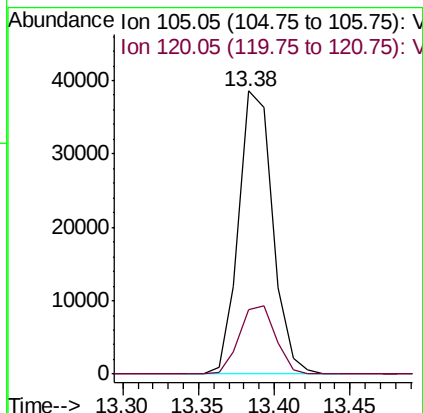
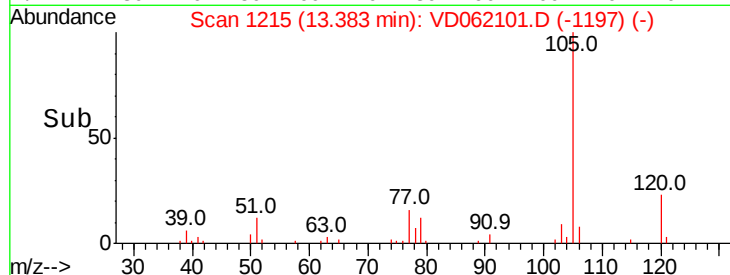
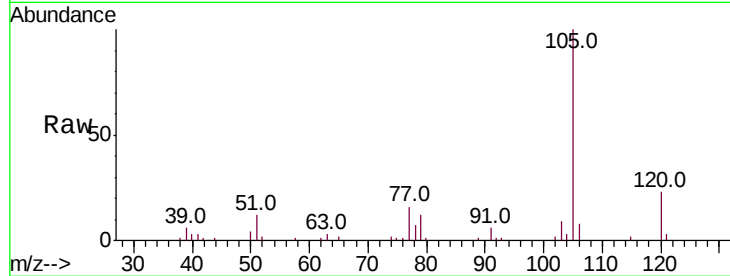
MDL-MDL-SOIL-03-QT2-2019

Tot Ion:105 Resp: 60442

Ion Ratio Lower Upper

105 100

120 22.6 12.0 36.1



#74

N-ethyl acetate

Concen: 2.491 ug/l

RT: 13.25 min Scan# 1202

Delta R.T. -0.01 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Tgt Ion: 43 Resp: 16157

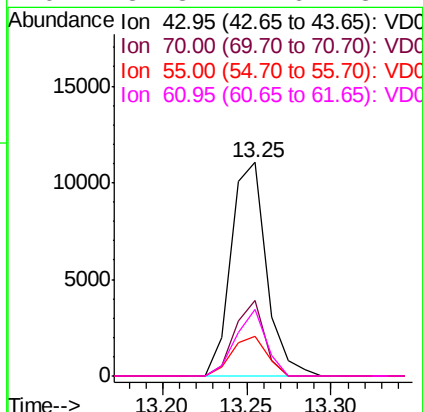
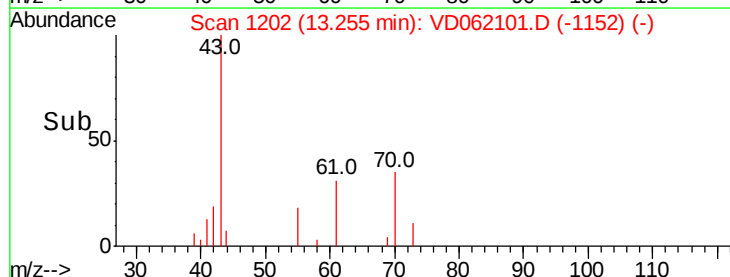
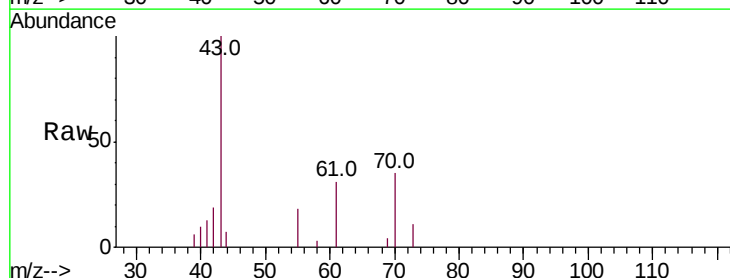
Ion Ratio Lower Upper

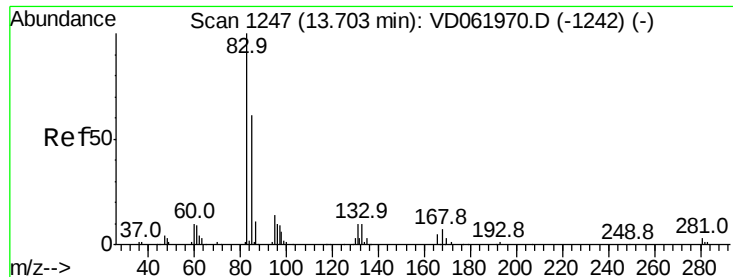
43 100

70 35.5 24.2 36.4

55 18.4 16.0 24.0

61 31.3 21.6 32.4





#75

1,1,2,2-Tetrachloroethane

Concen: 2.368 ug/l

RT: 13.69 min Scan# 1246

Delta R.T. -0.01 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

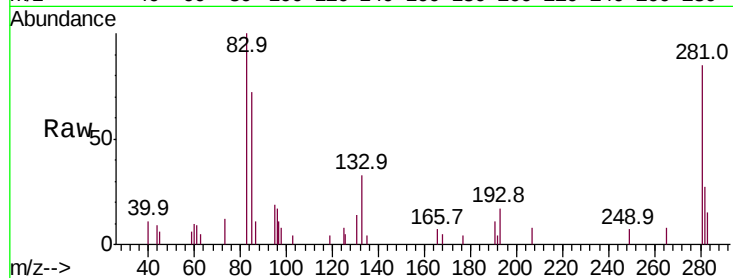
Tot Ion: 83 Resp: 11688

Ion Ratio Lower Upper

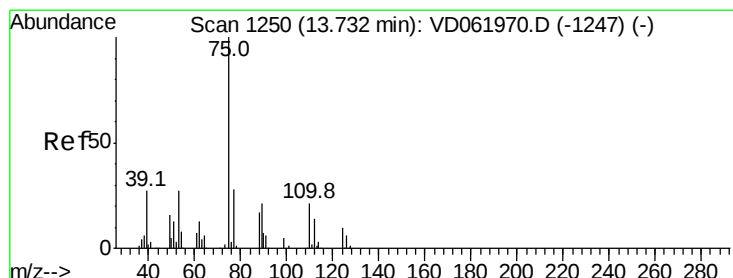
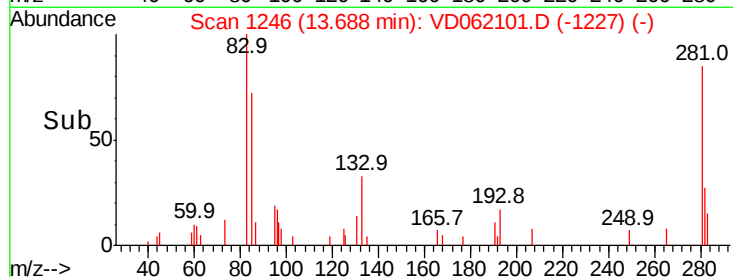
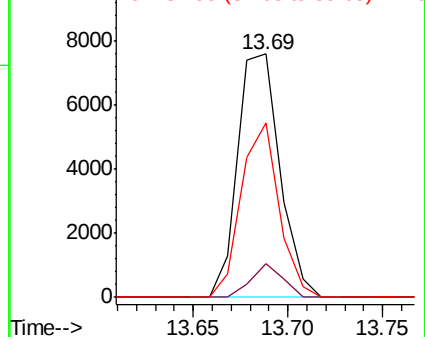
83 100

131 14.1 5.0 14.9

85 71.9 32.6 97.7



Abundance Ion 82.95 (82.65 to 83.65): VDC
Ion 130.90 (130.60 to 131.60): VDC
Ion 84.95 (84.65 to 85.65): VDC



#76

1,2,3-Trichloropropane

Concen: 2.614 ug/l

RT: 13.72 min Scan# 1249

Delta R.T. -0.02 min

Lab File: VD062101.D

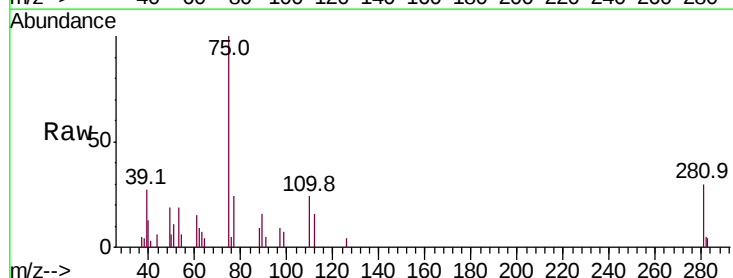
Acq: 1 May 2019 14:27

Tgt Ion: 75 Resp: 12533

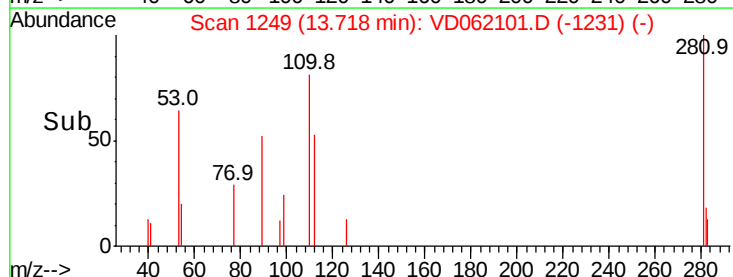
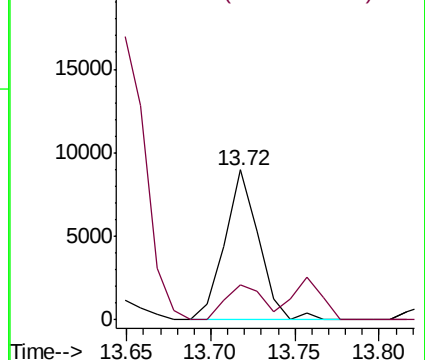
Ion Ratio Lower Upper

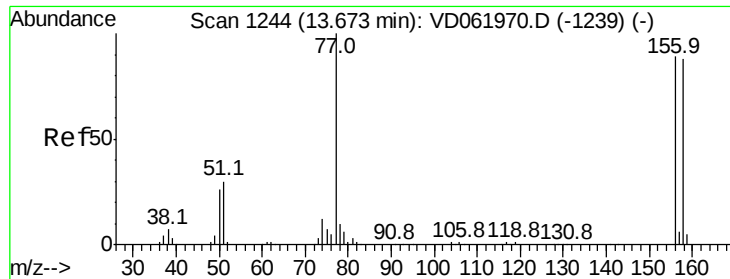
75 100

77 23.8 16.4 49.4



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

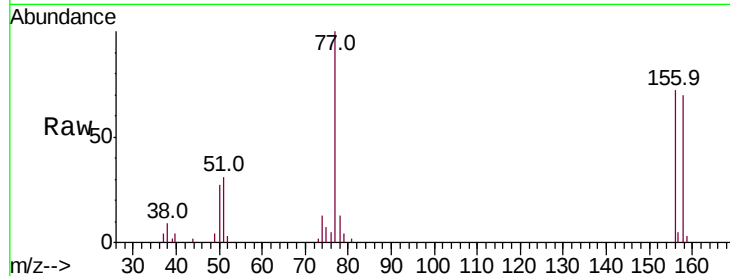




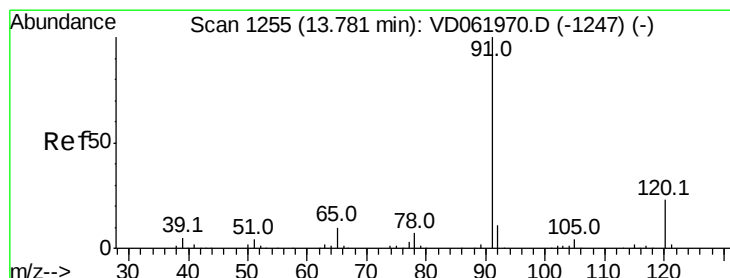
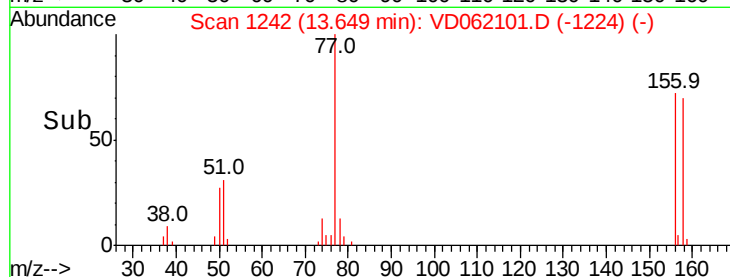
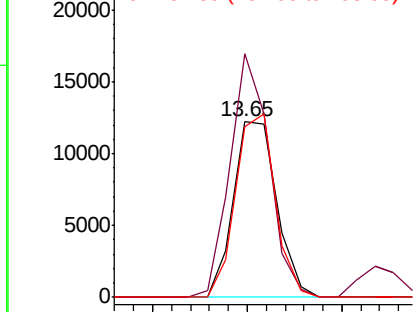
#77
Bromobenzene
Concen: 2.670 ug/l
RT: 13.65 min Scan# 1242
Delta R.T. -0.02 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

Tot Ion:156 Resp: 19289
Ion Ratio Lower Upper
156 100
77 138.9 53.1 159.4
158 97.5 49.4 148.0

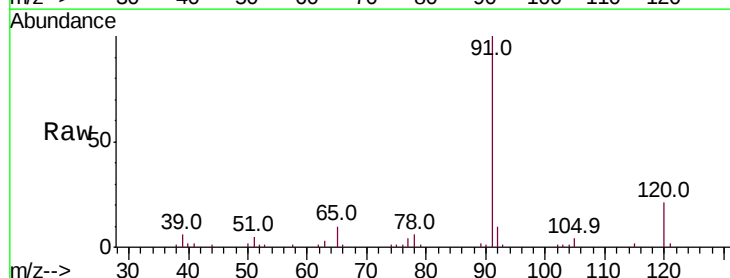


Abundance Ion 155.90 (155.60 to 156.60): V
Ion 76.95 (76.65 to 77.65): V
Ion 157.85 (157.55 to 158.55): V

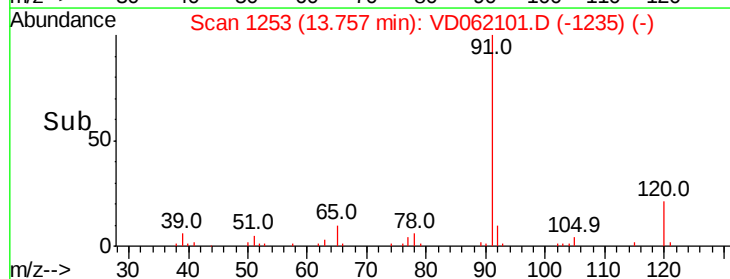
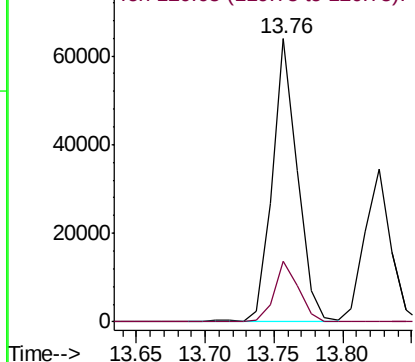


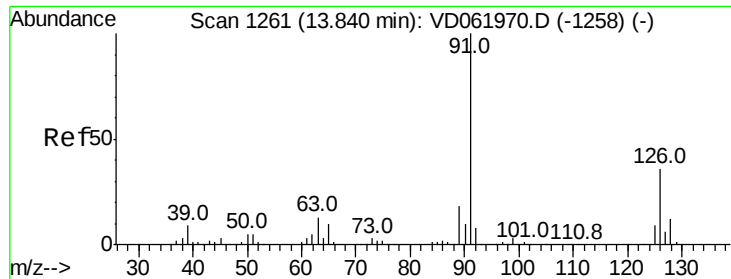
#78
n-propylbenzene
Concen: 2.796 ug/l
RT: 13.76 min Scan# 1253
Delta R.T. -0.02 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Tgt Ion: 91 Resp: 80595
Ion Ratio Lower Upper
91 100
120 21.3 11.1 33.1



Abundance Ion 91.00 (90.70 to 91.70): V
Ion 120.05 (119.75 to 120.75): V

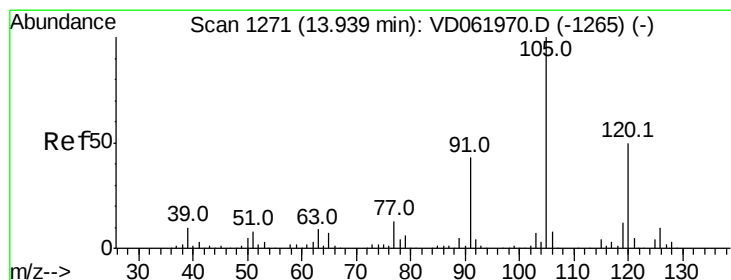
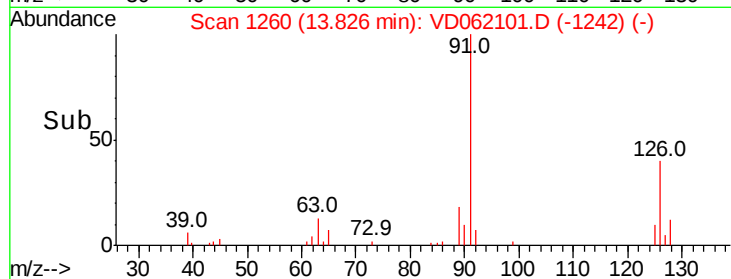
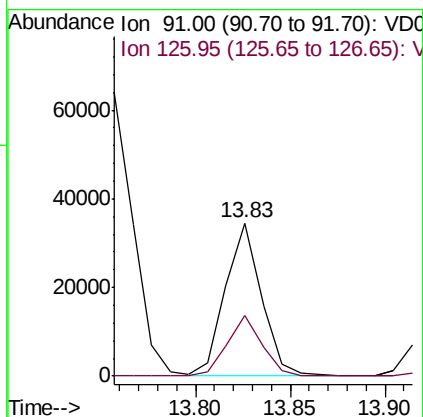
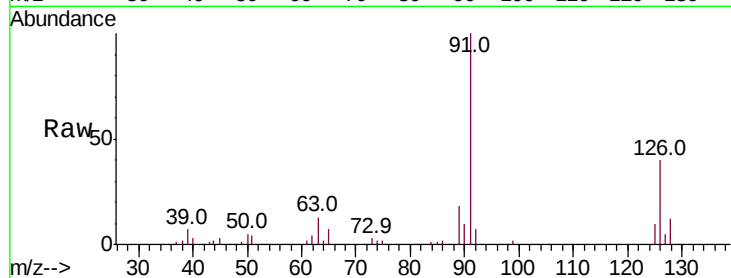




#79
 2-Chlorotoluene
 Concen: 2.608 ug/l
 RT: 13.83 min Scan# 1260
 Delta R.T. -0.02 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

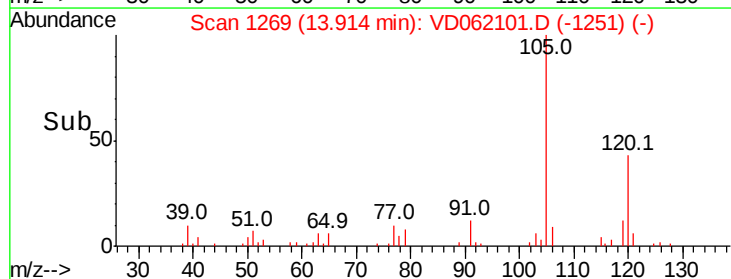
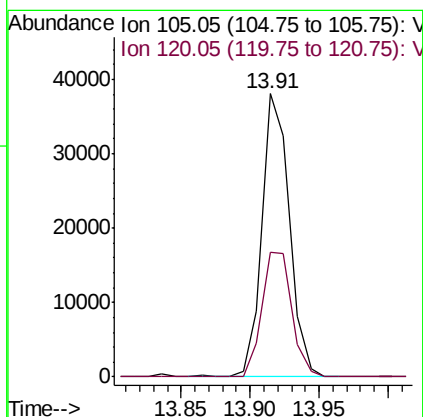
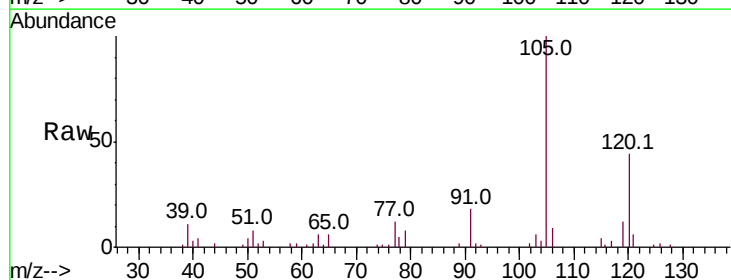
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

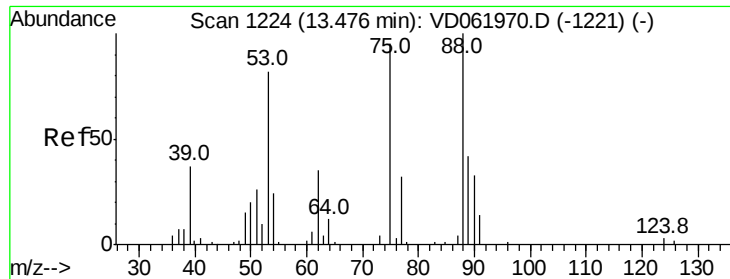
Tot Ion: 91 Resp: 45546
 Ion Ratio Lower Upper
 91 100
 126 39.7 18.6 55.8



#80
 1,3,5-Trimethylbenzene
 Concen: 2.637 ug/l
 RT: 13.91 min Scan# 1269
 Delta R.T. -0.02 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

Tgt Ion:105 Resp: 52940
 Ion Ratio Lower Upper
 105 100
 120 44.0 24.0 72.0





#81

trans-1,4-Dichloro-2-butene

Concen: 2.178 ug/l m

RT: 13.46 min Scan# 1223

Delta R.T. -0.02 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

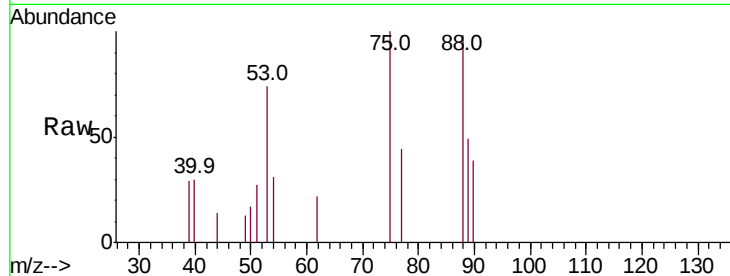
Tot Ion: 75 Resp: 3164

Ion Ratio Lower Upper

75 100

53 73.7 65.8 98.8

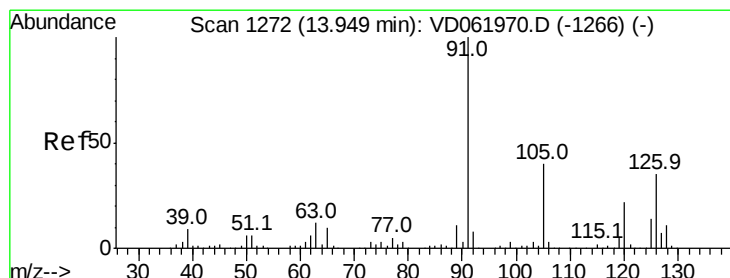
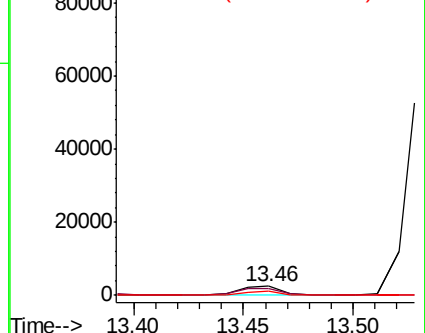
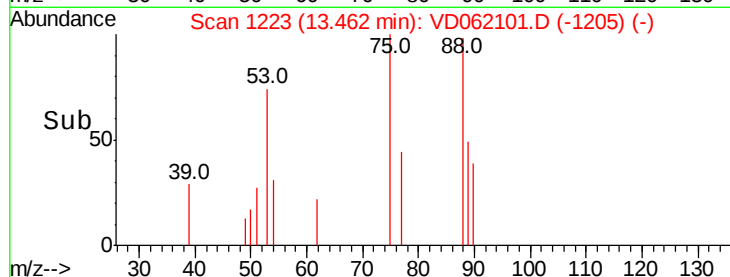
89 48.7 35.0 52.6



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



#82

4-Chlorotoluene

Concen: 2.662 ug/l

RT: 13.93 min Scan# 1271

Delta R.T. -0.02 min

Lab File: VD062101.D

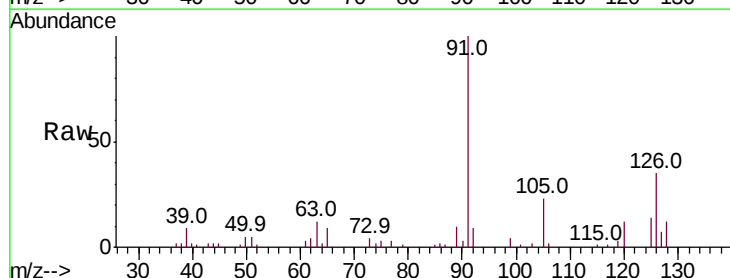
Acq: 1 May 2019 14:27

Tgt Ion: 91 Resp: 51197

Ion Ratio Lower Upper

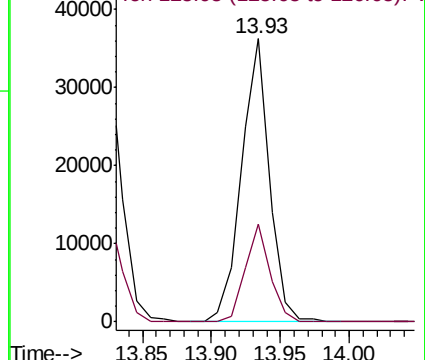
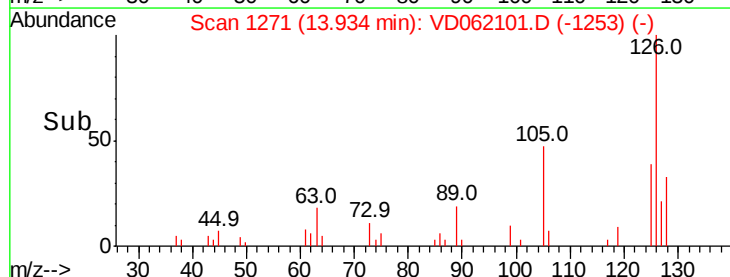
91 100

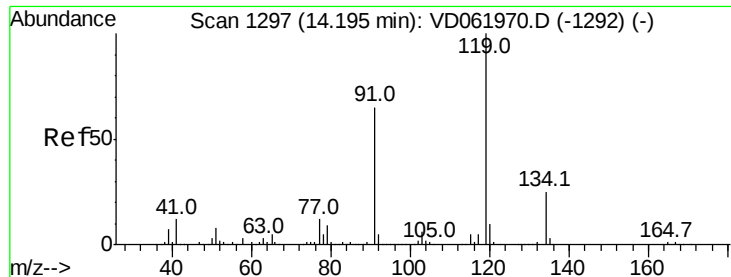
126 34.5 19.1 57.5



Abundance Ion 91.00 (90.70 to 91.70): VDC

Ion 125.95 (125.65 to 126.65): V

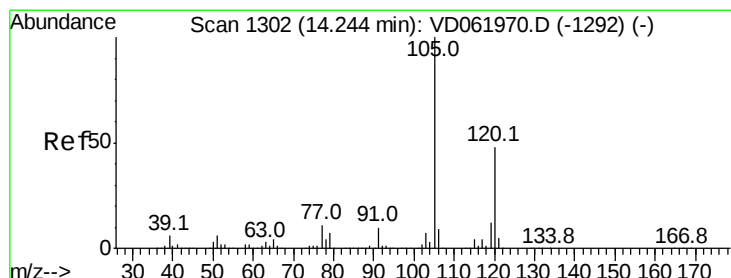
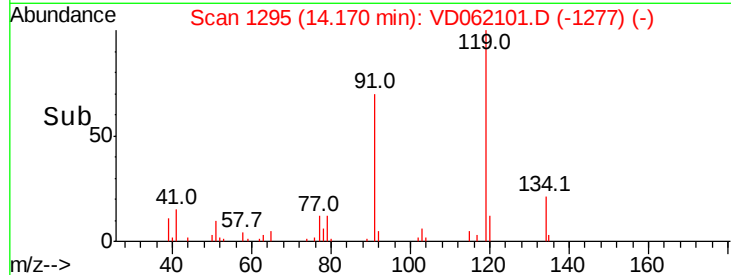
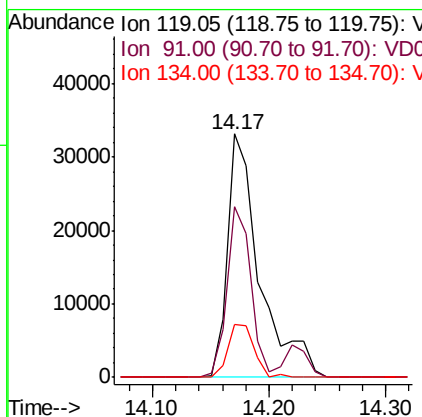
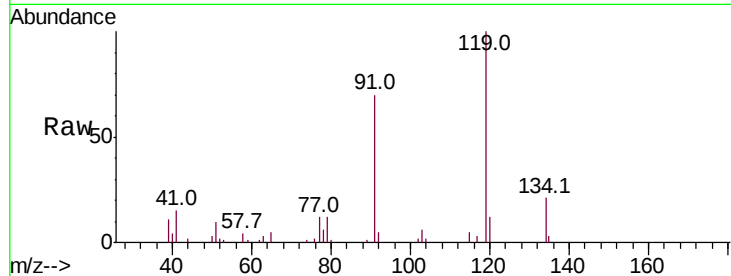




#83
 tert-Butylbenzene
 Concen: 2.734 ug/l
 RT: 14.17 min Scan# 1295
 Delta R.T. -0.02 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

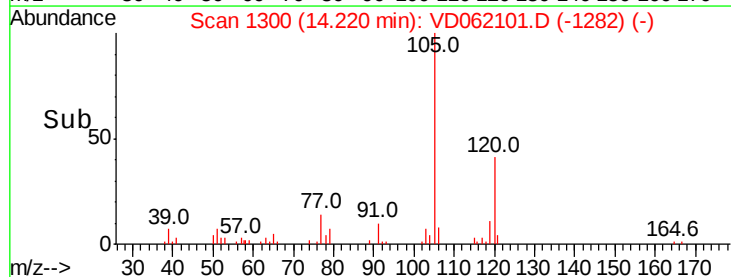
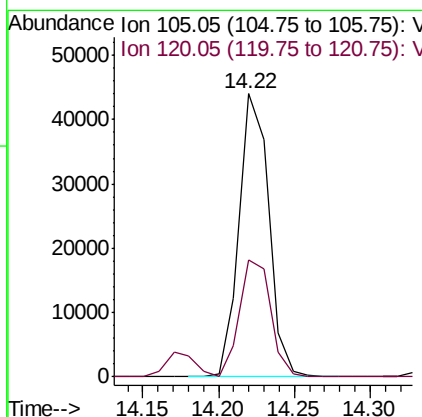
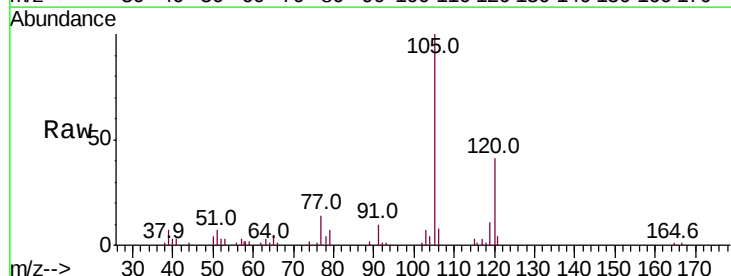
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

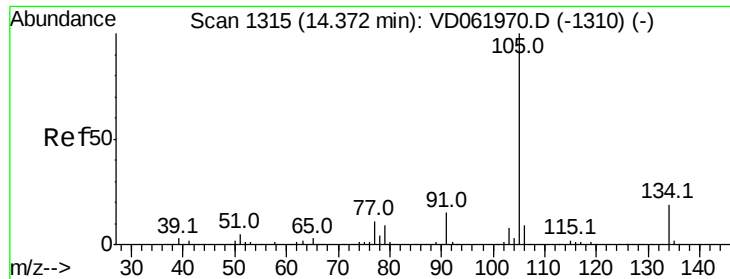
Tot Ion:119 Resp: 63597
 Ion Ratio Lower Upper
 119 100
 91 70.0 34.2 102.6
 134 21.5 12.0 36.0



#84
 1,2,4-Trimethylbenzene
 Concen: 3.127 ug/l
 RT: 14.22 min Scan# 1300
 Delta R.T. -0.02 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

Tgt Ion:105 Resp: 59944
 Ion Ratio Lower Upper
 105 100
 120 41.4 23.1 69.2





#85

sec-Butylbenzene

Concen: 2.918 ug/l

RT: 14.36 min Scan# 1314

Delta R.T. -0.01 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

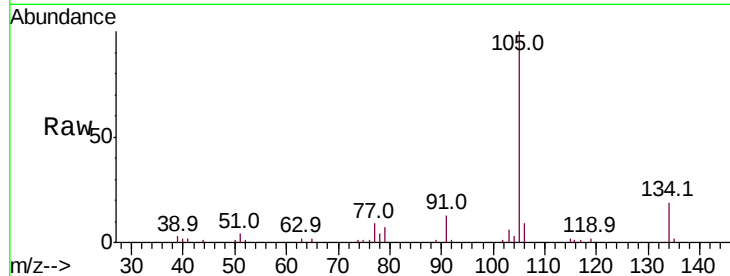
MDL-MDL-SOIL-03-QT2-2019

Tot Ion:105 Resp: 73331

Ion Ratio Lower Upper

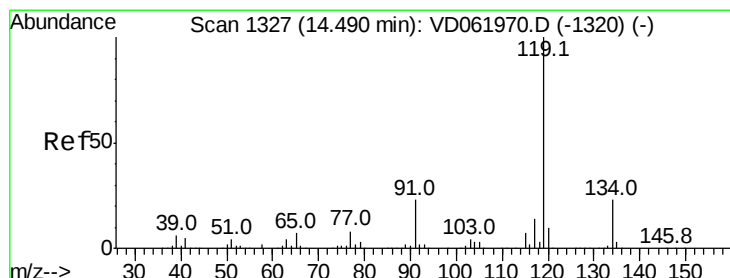
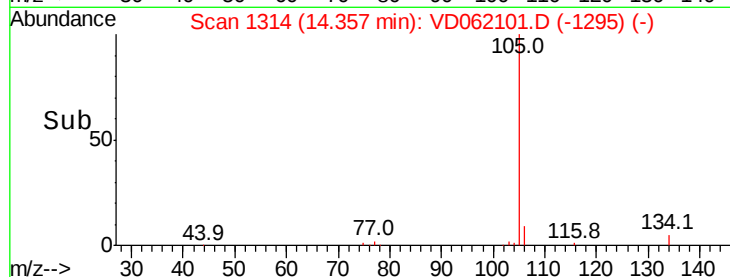
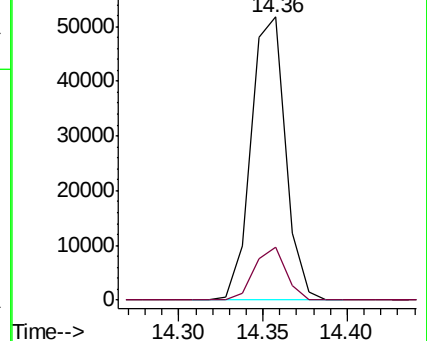
105 100

134 18.7 8.9 26.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 134.10 (133.80 to 134.80): V



#86

p-Isopropyltoluene

Concen: 3.019 ug/l

RT: 14.48 min Scan# 1326

Delta R.T. -0.02 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

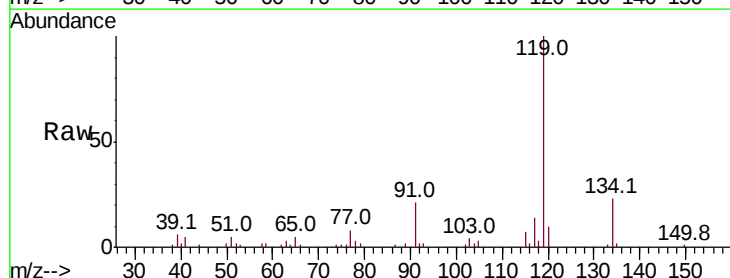
Tgt Ion:119 Resp: 67909

Ion Ratio Lower Upper

119 100

134 22.6 12.8 38.3

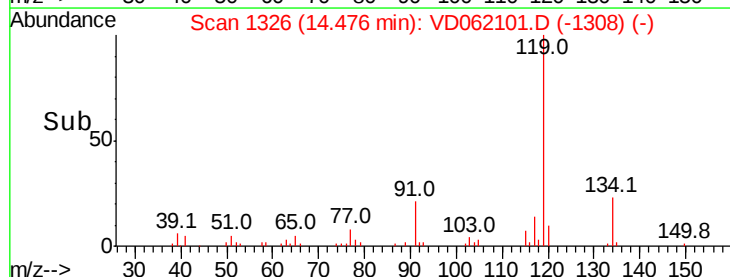
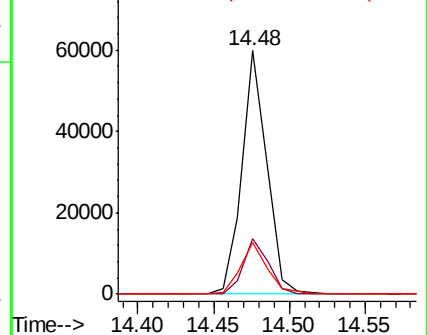
91 21.2 10.7 32.1

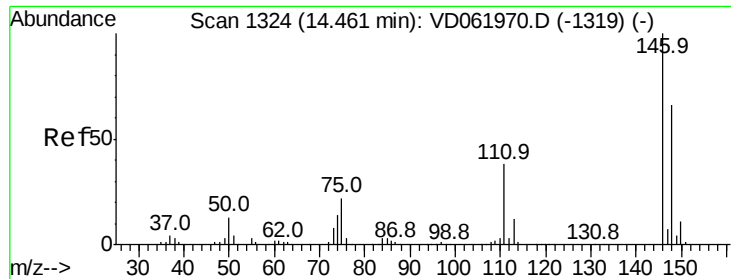


Abundance Ion 119.05 (118.75 to 119.75): V

Ion 134.10 (133.80 to 134.80): V

Ion 91.00 (90.70 to 91.70): V

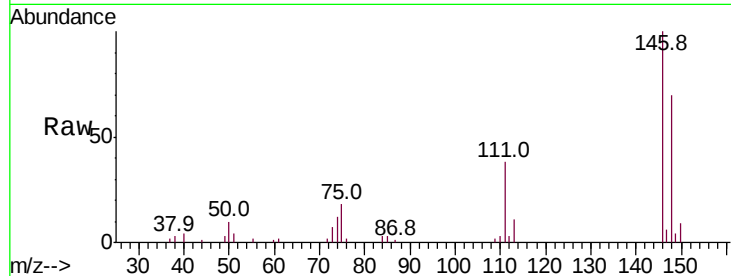




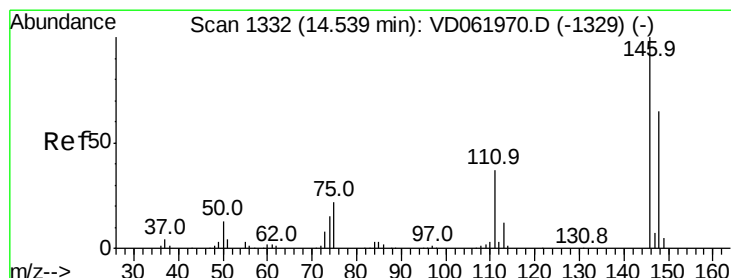
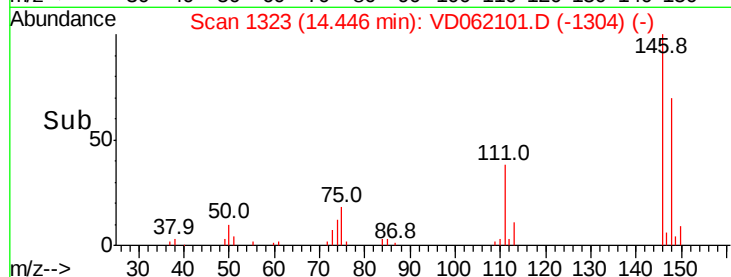
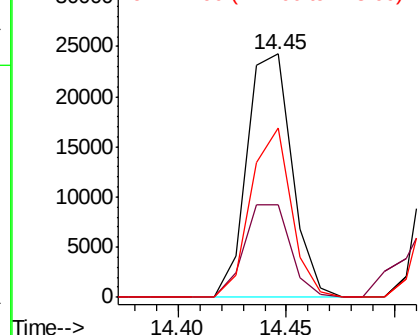
#87
 1,3-Dichlorobenzene
 Concen: 2.773 ug/l
 RT: 14.45 min Scan# 1323
 Delta R.T. -0.01 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

Tot Ion:146 Resp: 35075
 Ion Ratio Lower Upper
 146 100
 111 38.2 20.0 60.0
 148 69.7 31.8 95.4

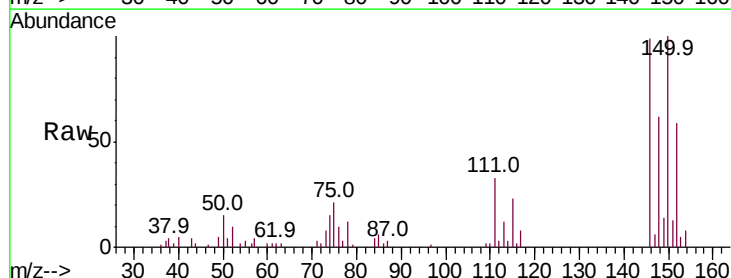


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

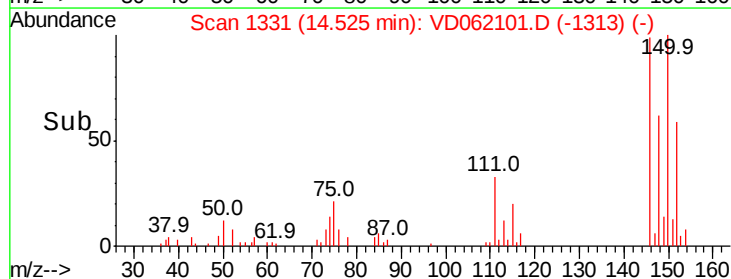
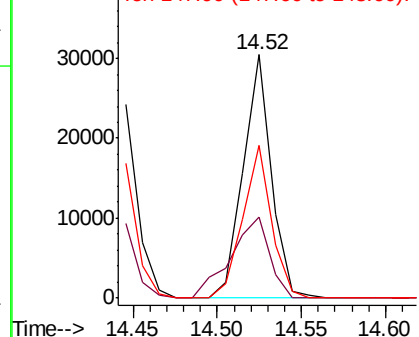


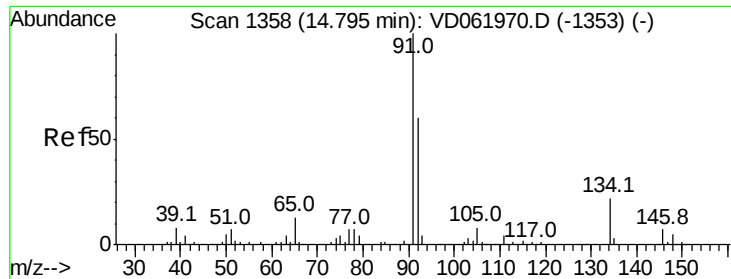
#88
 1,4-Dichlorobenzene
 Concen: 2.989 ug/l
 RT: 14.52 min Scan# 1331
 Delta R.T. -0.02 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

Tgt Ion:146 Resp: 35360
 Ion Ratio Lower Upper
 146 100
 111 33.1 20.2 60.5
 148 62.5 32.0 96.2



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 2.623 ug/l

RT: 14.78 min Scan# 1357

Delta R.T. -0.02 min

Lab File: VD062101.D

Acq: 1 May 2019 14:27

Instrument :

MSVOA_D

ClientSampleId :

MDL-MDL-SOIL-03-QT2-2019

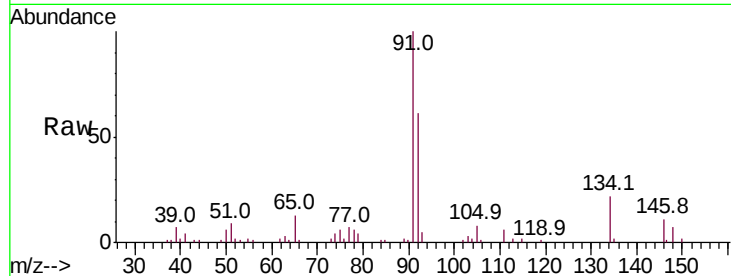
Tot Ion: 91 Resp: 52979

Ion Ratio Lower Upper

91 100

92 61.4 30.3 91.0

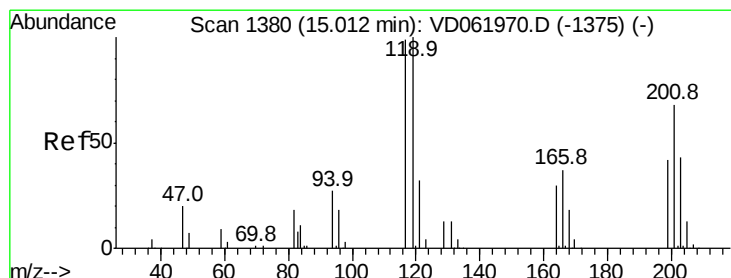
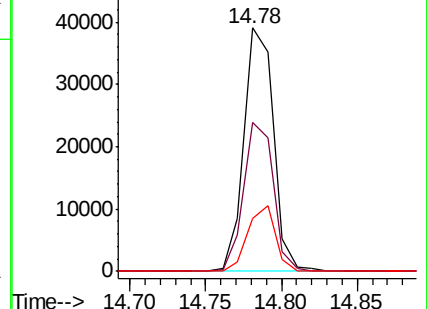
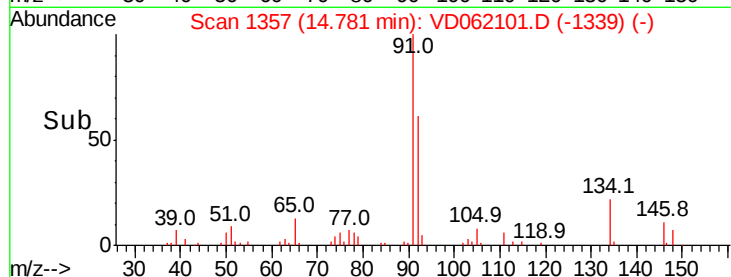
134 21.8 14.5 43.6



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.10 (133.80 to 134.80): V



#90

Hexachloroethane

Concen: 2.598 ug/l

RT: 15.00 min Scan# 1379

Delta R.T. -0.01 min

Lab File: VD062101.D

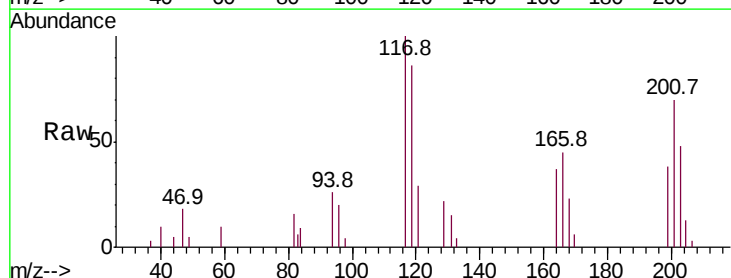
Acq: 1 May 2019 14:27

Tgt Ion: 117 Resp: 15804

Ion Ratio Lower Upper

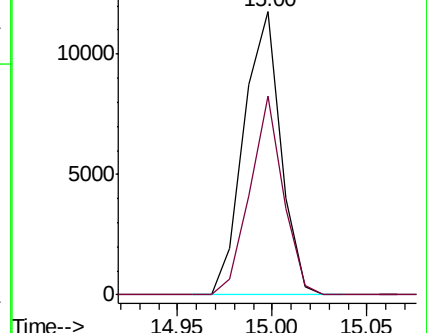
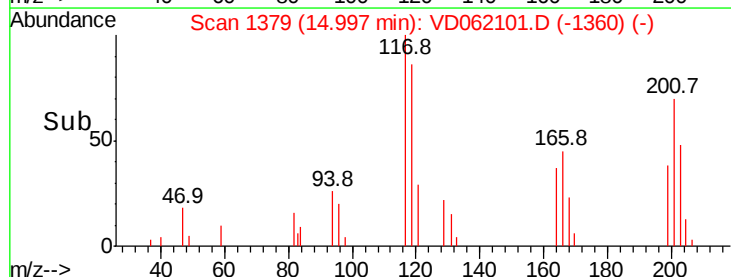
117 100

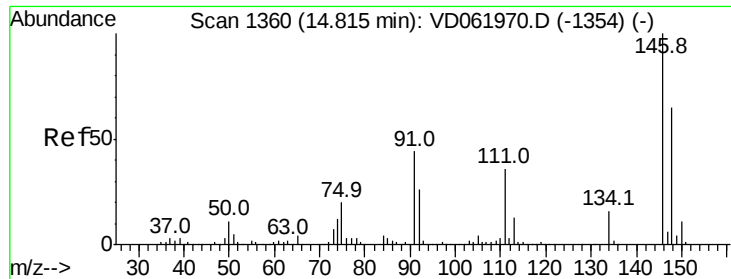
201 70.1 30.2 90.6



Abundance Ion 116.85 (116.55 to 117.55): V

Ion 200.75 (200.45 to 201.45): V

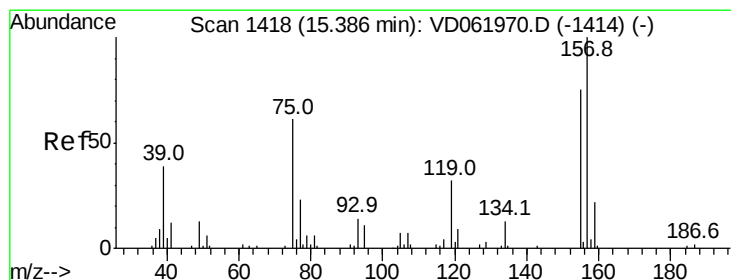
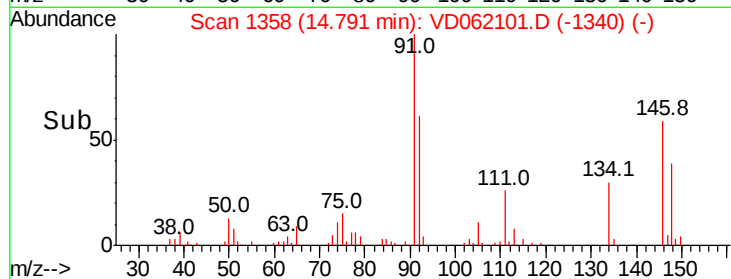
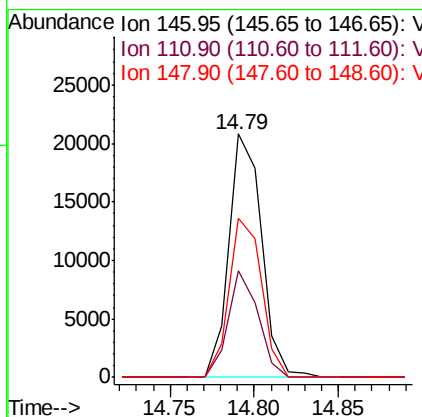
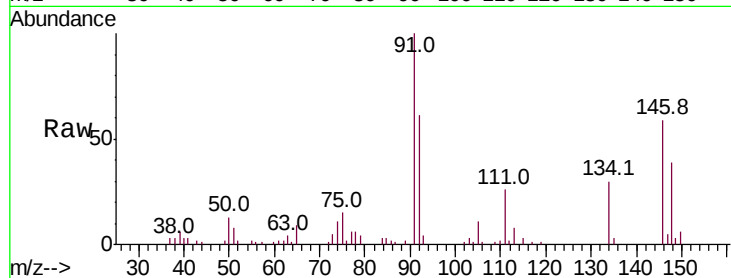




#91
 1,2-Dichlorobenzene
 Concen: 2.689 ug/l
 RT: 14.79 min Scan# 1358
 Delta R.T. -0.02 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

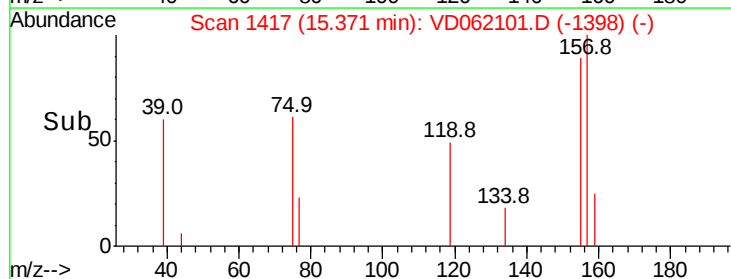
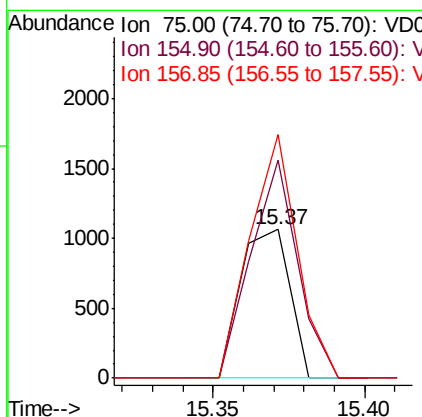
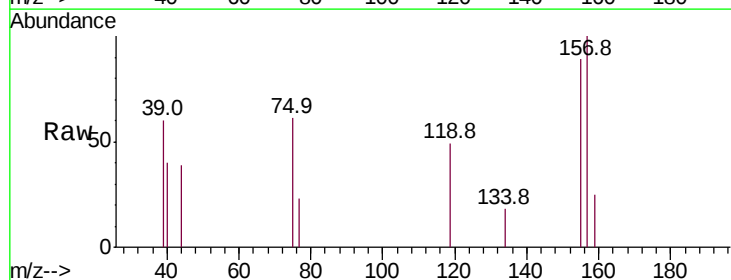
Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

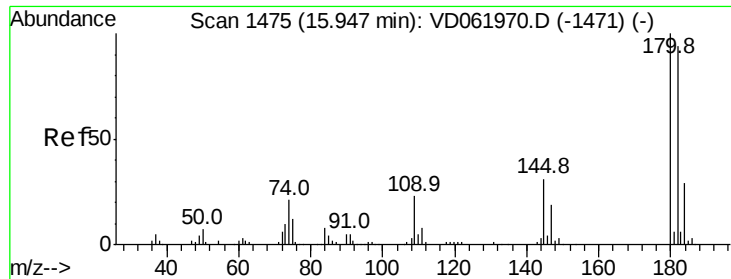
Tot Ion:146 Resp: 28064
 Ion Ratio Lower Upper
 146 100
 111 43.6 20.0 59.9
 148 65.2 32.3 96.8



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.817 ug/l
 RT: 15.37 min Scan# 1417
 Delta R.T. -0.01 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

Tgt Ion: 75 Resp: 1194
 Ion Ratio Lower Upper
 75 100
 155 146.9 55.3 165.8
 157 164.2 67.8 203.2

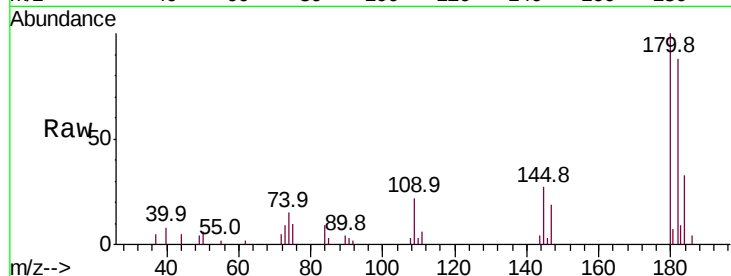




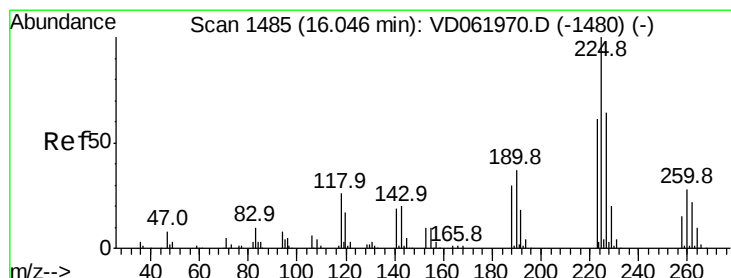
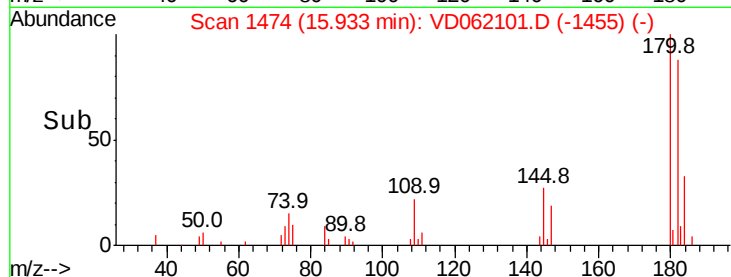
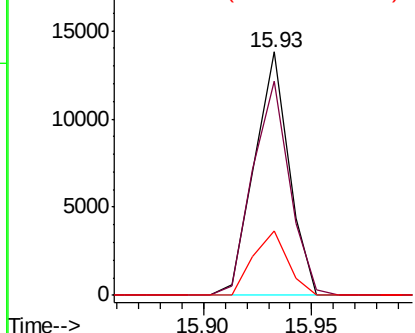
#93
 1,2,4-Trichlorobenzene
 Concen: 2.707 ug/l
 RT: 15.93 min Scan# 1474
 Delta R.T. -0.01 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

Instrument :
 MSVOA_D
 ClientSampleId :
 MDL-MDL-SOIL-03-QT2-2019

Tot Ion:180 Resp: 15240
 Ion Ratio Lower Upper
 180 100
 182 88.2 49.3 147.8
 145 26.6 16.2 48.6

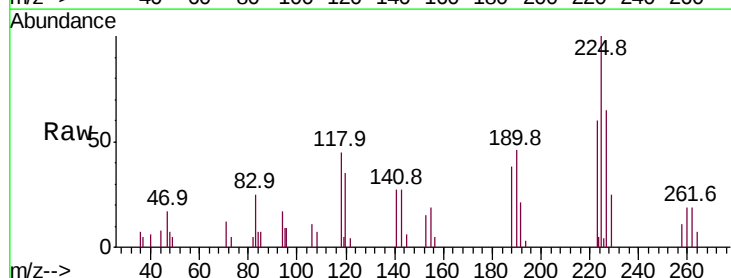


Abundance Ion 179.85 (179.55 to 180.55): V
 Ion 181.85 (181.55 to 182.55): V
 Ion 144.95 (144.65 to 145.65): V

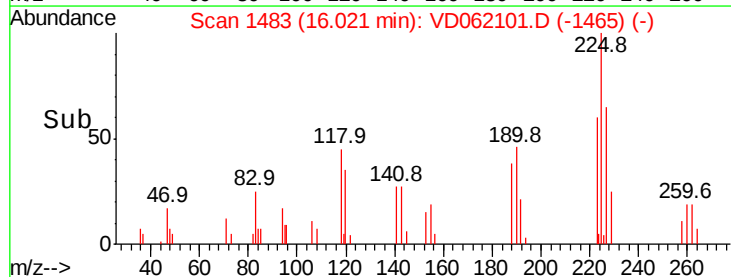
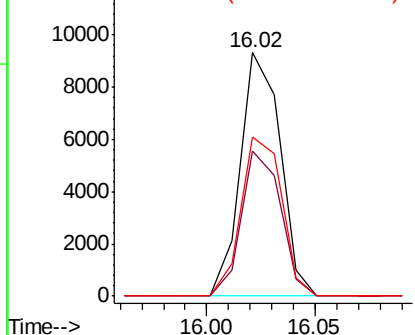


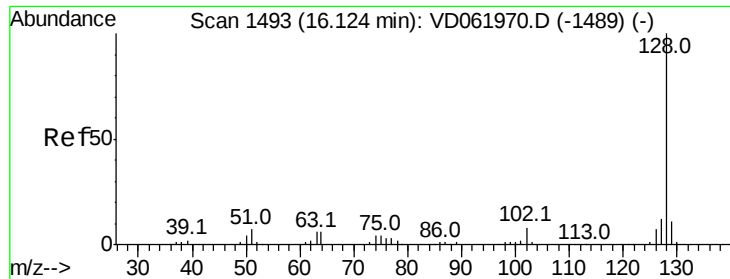
#94
 Hexachlorobutadiene
 Concen: 2.861 ug/l
 RT: 16.02 min Scan# 1483
 Delta R.T. -0.02 min
 Lab File: VD062101.D
 Acq: 1 May 2019 14:27

Tgt Ion:225 Resp: 11920
 Ion Ratio Lower Upper
 225 100
 223 59.6 30.6 92.0
 227 65.2 32.0 96.2



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

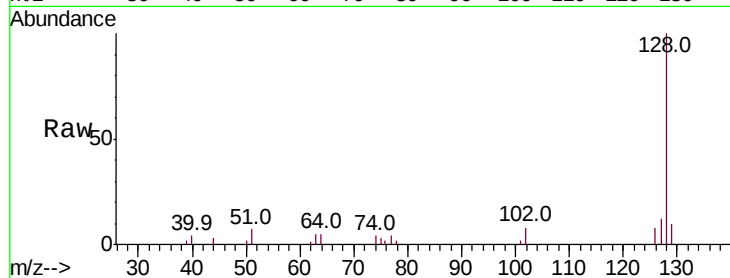




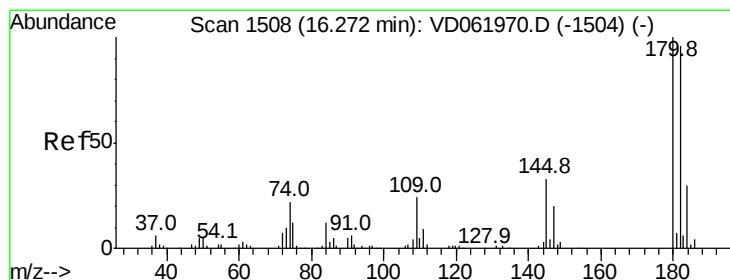
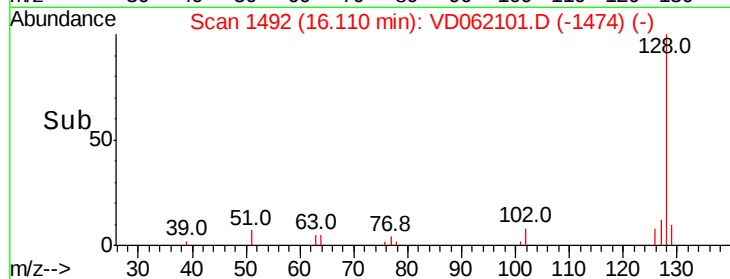
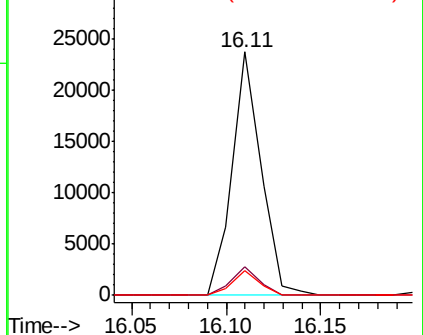
#95
Naphthalene
Concen: 2.765 ug/l
RT: 16.11 min Scan# 1492
Delta R.T. -0.02 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Instrument :
MSVOA_D
ClientSampleId :
MDL-MDL-SOIL-03-QT2-2019

Tot Ion:128 Resp: 25135
Ion Ratio Lower Upper
128 100
127 11.6 9.8 14.8
129 10.2 8.8 13.2

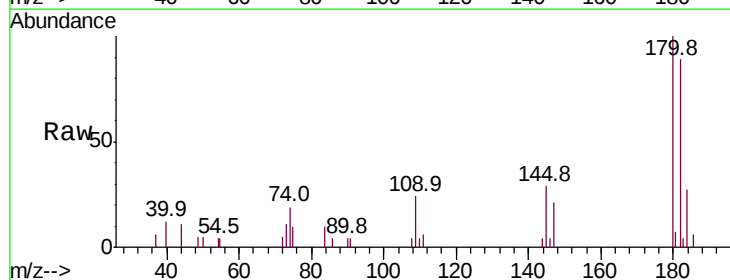


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 2.803 ug/l
RT: 16.26 min Scan# 1507
Delta R.T. -0.01 min
Lab File: VD062101.D
Acq: 1 May 2019 14:27

Tgt Ion:180 Resp: 8955
Ion Ratio Lower Upper
180 100
182 89.2 47.0 141.0
145 28.5 17.0 51.0



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

