

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW030719\
 Data File : VW009043.D
 Acq On : 07 Mar 2019 16:48
 Operator : SY/VA
 Sample : K1560-03MDL2.5PPB
 Misc : 5.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 16 Sample Multiplier: 1

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

Quant Time: Mar 08 05:42:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W030719S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 05:22:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	277923	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	399532	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	390706	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	211456	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	149231	53.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.74%	
35) Dibromofluoromethane	7.88	113	129216	53.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.44%	
50) Toluene-d8	10.32	98	552872	55.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.92%	
62) 4-Bromofluorobenzene	12.62	95	206007	52.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.94%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.00	85	8852	3.160	ug/l	99
3) Chloromethane	2.21	50	9530	2.678	ug/l	91
4) Vinyl Chloride	2.36	62	9657	2.674	ug/l	91
5) Bromomethane	2.76	94	9086	2.981	ug/l	98
6) Chloroethane	2.92	64	7653	2.977	ug/l	99
7) Trichlorofluoromethane	3.26	101	11738	2.525	ug/l	95
8) Diethyl Ether	3.68	74	3331	2.343	ug/l	86
9) 1,1,2-Trichlorotrifluoroet	4.06	101	7664	2.647	ug/l	93
10) Methyl Iodide	4.28	142	5225	4.745	ug/l #	98
11) Tert butyl alcohol	5.18	59	679	3.169	ug/l #	1
12) 1,1-Dichloroethene	4.03	96	5879	2.354	ug/l	98
13) Acrolein	3.91	56	2848	12.079	ug/l #	72
14) Allyl chloride	4.68	41	10674	2.423	ug/l	95
15) Acrylonitrile	5.37	53	8371	13.492	ug/l #	16
16) Acetone	4.14	43	9182	14.552	ug/l	99
17) Carbon Disulfide	4.37	76	20075	2.389	ug/l #	93
18) Methyl Acetate	4.69	43	4175	2.877	ug/l #	85
19) Methyl tert-butyl Ether	5.43	73	15245	2.307	ug/l	96
20) Methylene Chloride	4.92	84	14902	Below Cal		96
21) trans-1,2-Dichloroethene	5.42	96	7159	2.482	ug/l	96
22) Diisopropyl ether	6.31	45	19457	2.222	ug/l #	85
23) Vinyl Acetate	6.26	43	57399	10.534	ug/l	97
24) 1,1-Dichloroethane	6.22	63	12708	2.502	ug/l	98
25) 2-Butanone	7.18	43	10017	11.487	ug/l	94
26) 2,2-Dichloropropane	7.17	77	12467	2.701	ug/l	98
27) cis-1,2-Dichloroethene	7.17	96	7223	2.332	ug/l	92
28) Bromochloromethane	7.51	49	5296	2.507	ug/l	100
29) Tetrahydrofuran	7.54	42	6340	11.537	ug/l	96
30) Chloroform	7.67	83	12212	2.336	ug/l	91
31) Cyclohexane	7.95	56	18777	3.601	ug/l #	64
32) 1,1,1-Trichloroethane	7.87	97	12174	2.523	ug/l	94
36) 1,1-Dichloropropene	8.08	75	11039	2.642	ug/l	98
37) Ethyl Acetate	7.26	43	4383	2.234	ug/l #	82
38) Carbon Tetrachloride	8.07	117	10696	2.479	ug/l	93

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 Quant Title : SW846 8260
 QLast Update : Fri Mar 08 05:22:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	12733	2.559	ug/l	94
40) Benzene	8.32	78	26671	2.392	ug/l	98
41) Methacrylonitrile	7.48	41	1638	1.503	ug/l #	55
42) 1,2-Dichloroethane	8.40	62	9121	2.533	ug/l	96
43) Isopropyl Acetate	8.42	43	9119	2.495	ug/l	97
44) Trichloroethene	9.09	130	7287	2.331	ug/l	96
45) 1,2-Dichloropropane	9.37	63	6795	2.433	ug/l #	84
46) Dibromomethane	9.45	93	3617	2.371	ug/l	99
47) Bromodichloromethane	9.64	83	8895	2.304	ug/l #	93
48) Methyl methacrylate	9.43	41	3464	2.036	ug/l #	86
49) 1,4-Dioxane	9.46	88	1169	53.518	ug/l	95
51) 4-Methyl-2-Pentanone	10.21	43	20987	11.312	ug/l	98
52) Toluene	10.39	92	18439	2.438	ug/l	100
53) t-1,3-Dichloropropene	10.61	75	8522	2.231	ug/l	96
54) cis-1,3-Dichloropropene	10.07	75	10145	2.312	ug/l	96
55) 1,1,2-Trichloroethane	10.79	97	5575	2.697	ug/l	97
56) Ethyl methacrylate	10.65	69	5716	2.228	ug/l	98
57) 1,3-Dichloropropane	10.94	76	8861	2.419	ug/l	97
58) 2-Chloroethyl Vinyl ether	9.92	63	14523	10.918	ug/l	96
59) 2-Hexanone	10.97	43	14587	11.182	ug/l	99
60) Dibromochloromethane	11.13	129	5458	2.133	ug/l	96
61) 1,2-Dibromoethane	11.24	107	4795	2.366	ug/l	99
64) Tetrachloroethene	10.87	164	7584	2.692	ug/l	92
65) Chlorobenzene	11.66	112	20998	2.469	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.73	131	6535	2.301	ug/l	94
67) Ethyl Benzene	11.73	91	35498	2.311	ug/l	96
68) m/p-Xylenes	11.84	106	28347	4.675	ug/l	99
69) o-Xylene	12.16	106	12325	2.184	ug/l	99
70) Styrene	12.18	104	19981	2.189	ug/l	99
71) Bromoform	12.35	173	3399	2.229	ug/l #	93
73) Isopropylbenzene	12.46	105	34397	2.272	ug/l	99
74) N-amyl acetate	12.27	43	6854	1.912	ug/l #	87
75) 1,1,2,2-Tetrachloroethane	12.72	83	5776	2.418	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	8288	4.961	ug/l #	1
77) Bromobenzene	12.75	156	8183	2.365	ug/l	99
78) n-propylbenzene	12.80	91	44249	2.372	ug/l	99
79) 2-Chlorotoluene	12.90	91	25576	2.441	ug/l	97
80) 1,3,5-Trimethylbenzene	12.94	105	29834	2.286	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.62	75	109566	146.689	ug/l #	5
82) 4-Chlorotoluene	12.99	91	26752	2.395	ug/l	97
83) tert-Butylbenzene	13.21	119	25920	2.355	ug/l	99
84) 1,2,4-Trimethylbenzene	13.26	105	28869	2.186	ug/l	99
85) sec-Butylbenzene	13.38	105	37796	2.317	ug/l	97
86) p-Isopropyltoluene	13.50	119	32633	2.237	ug/l	99
87) 1,3-Dichlorobenzene	13.51	146	18402	2.531	ug/l	97
88) 1,4-Dichlorobenzene	13.58	146	19589	2.726	ug/l	90
89) n-Butylbenzene	13.83	91	30304	2.185	ug/l	98
90) Hexachloroethane	14.10	117	6164	2.449	ug/l	97
91) 1,2-Dichlorobenzene	13.87	146	16302	2.541	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.49	75	1229	2.889	ug/l	87

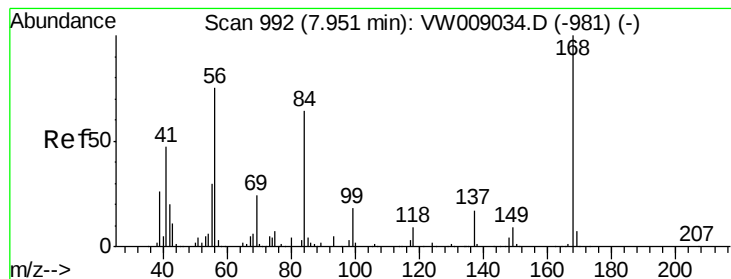
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	10599	2.446	ug/l	99
94) Hexachlorobutadiene	15.24	225	7559	2.785	ug/l	96
95) Naphthalene	15.38	128	14519	2.047	ug/l	95
96) 1,2,3-Trichlorobenzene	15.57	180	9370	2.459	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

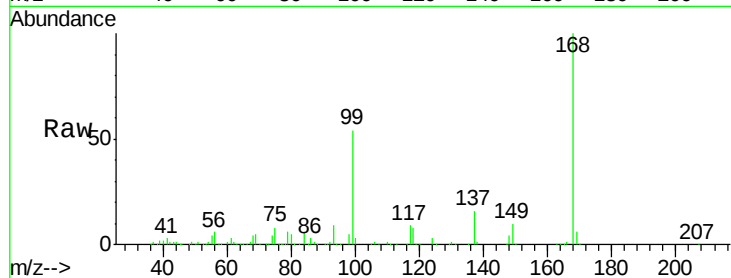
MDL-MDL-SOIL-03-QT1-2019

Tgt Ion:168 Resp: 277923

Ion Ratio Lower Upper

168 100

99 54.0 42.2 63.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

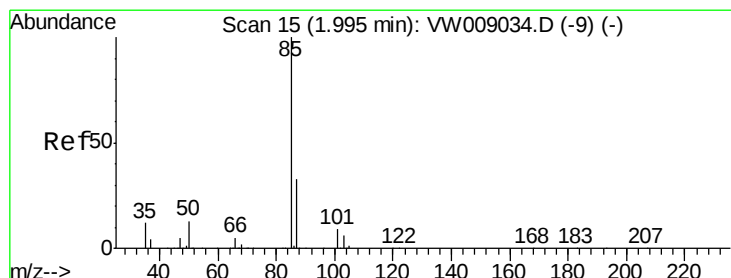
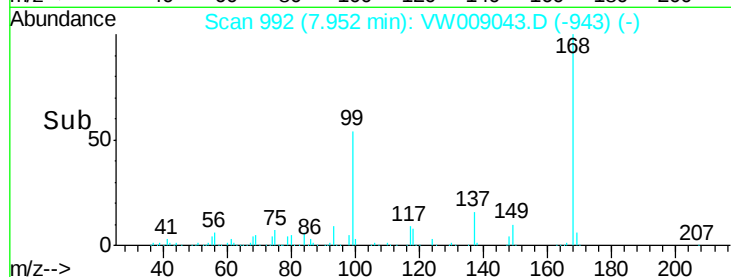
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 3.160 ug/l

RT: 2.00 min Scan# 16

Delta R.T. 0.01 min

Lab File: VW009043.D

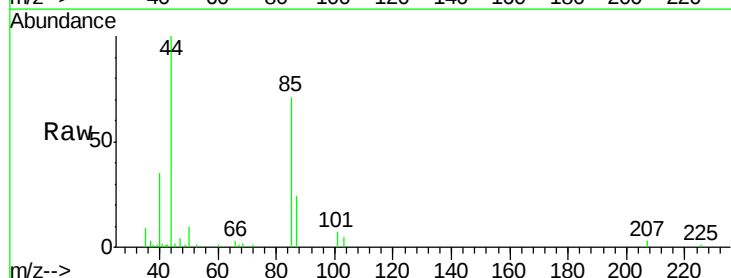
Acq: 07 Mar 2019 16:48

Tgt Ion: 85 Resp: 8852

Ion Ratio Lower Upper

85 100

87 33.2 16.3 48.9



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.00

6000

5000

4000

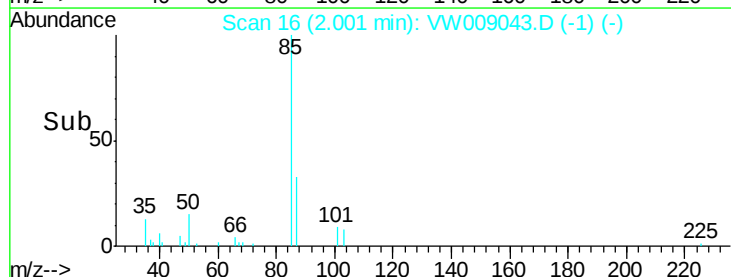
3000

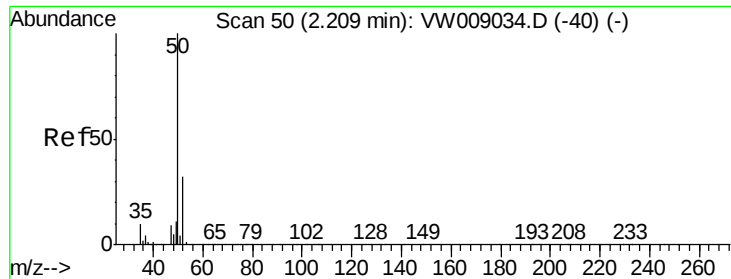
2000

1000

0

Time-->





#3

Chloromethane

Concen: 2.678 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

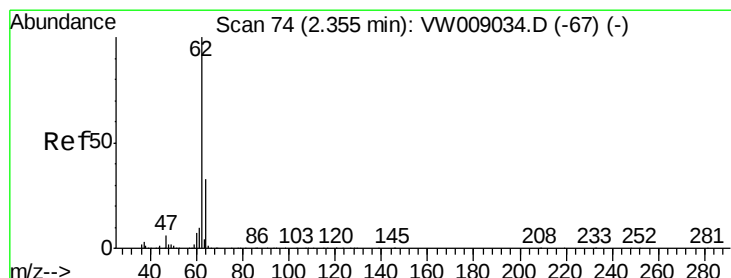
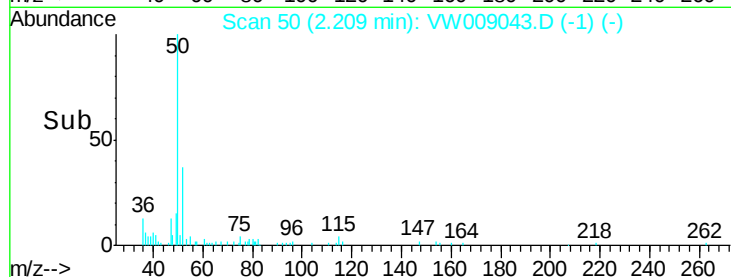
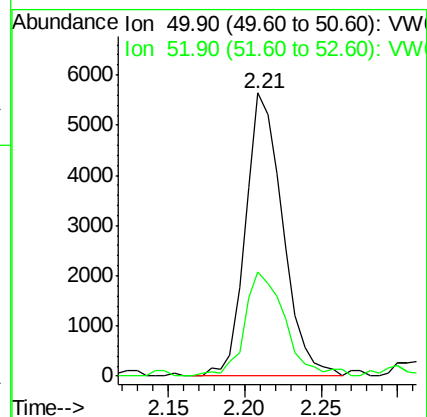
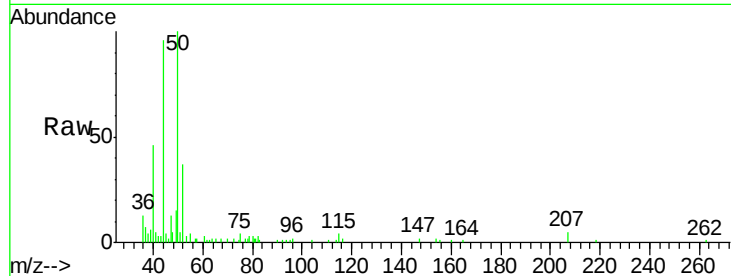
MDL-MDL-SOIL-03-QT1-2019

Tgt Ion: 50 Resp: 9530

Ion Ratio Lower Upper

50 100

52 36.9 25.4 38.2



#4

Vinyl Chloride

Concen: 2.674 ug/l

RT: 2.36 min Scan# 74

Delta R.T. 0.00 min

Lab File: VW009043.D

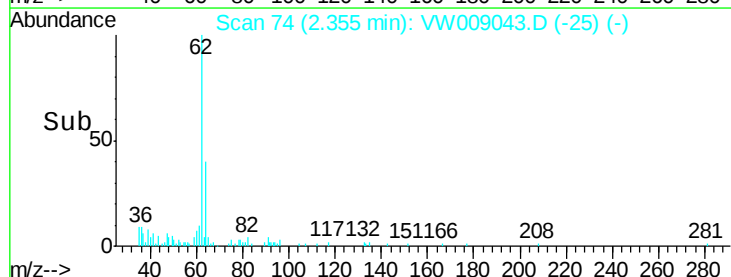
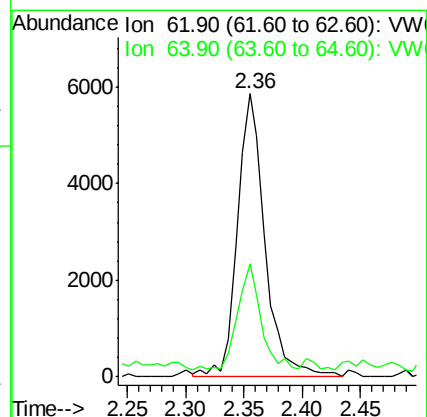
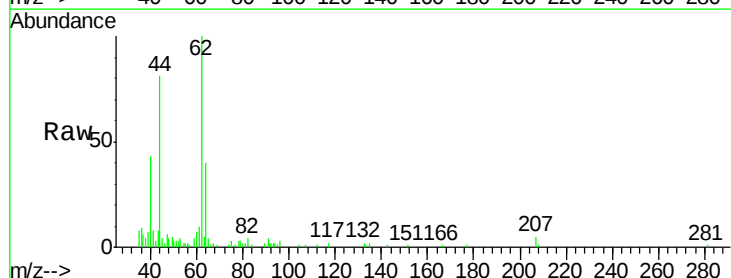
Acq: 07 Mar 2019 16:48

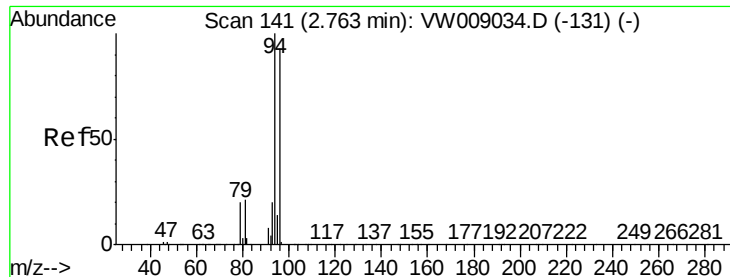
Tgt Ion: 62 Resp: 9657

Ion Ratio Lower Upper

62 100

64 37.7 26.0 39.0





#5

Bromomethane

Concen: 2.981 ug/l

RT: 2.76 min Scan# 141

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

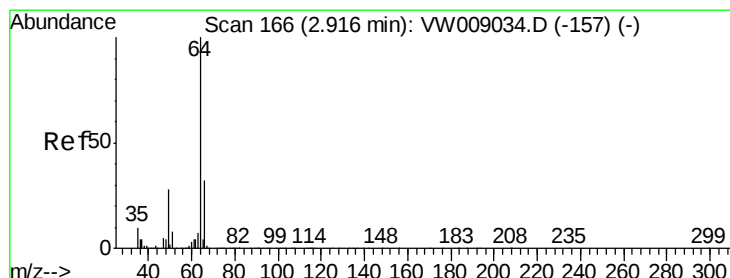
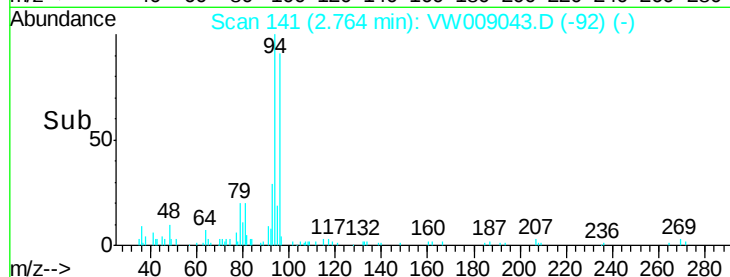
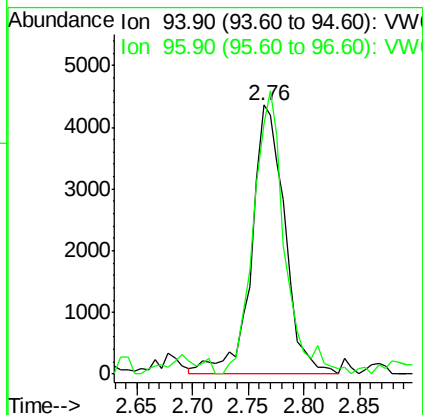
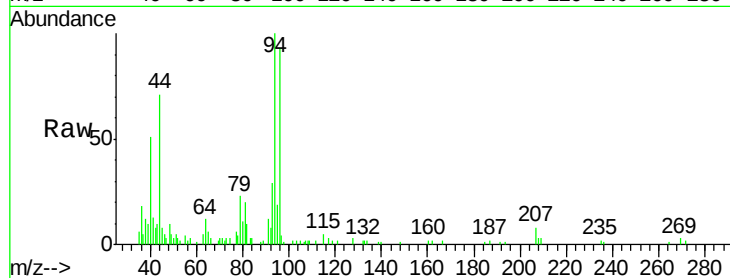
MDL-MDL-SOIL-03-QT1-2019

Tgt Ion: 94 Resp: 9086

Ion Ratio Lower Upper

94 100

96 90.7 74.4 111.6



#6

Chloroethane

Concen: 2.977 ug/l

RT: 2.92 min Scan# 166

Delta R.T. 0.00 min

Lab File: VW009043.D

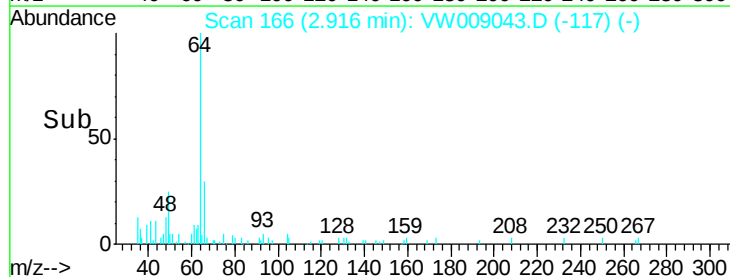
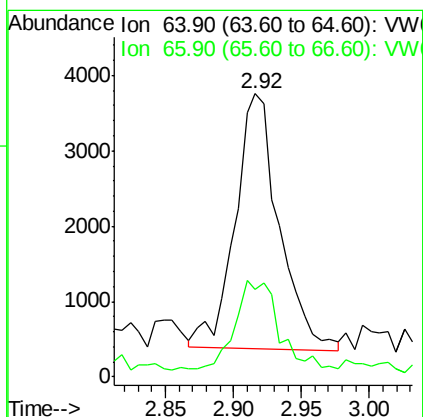
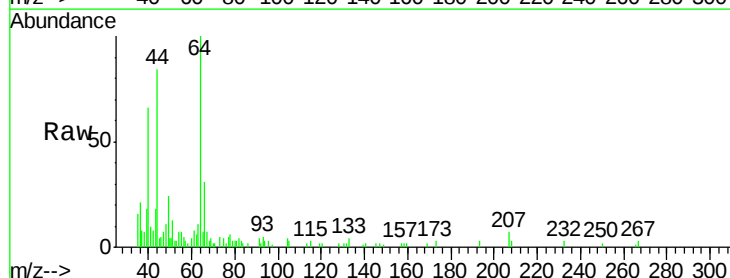
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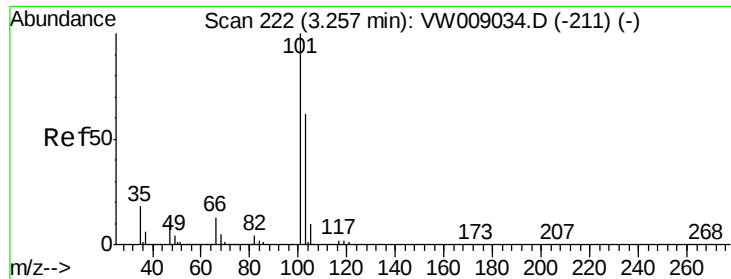
Tgt Ion: 64 Resp: 7653

Ion Ratio Lower Upper

64 100

66 32.2 25.5 38.3



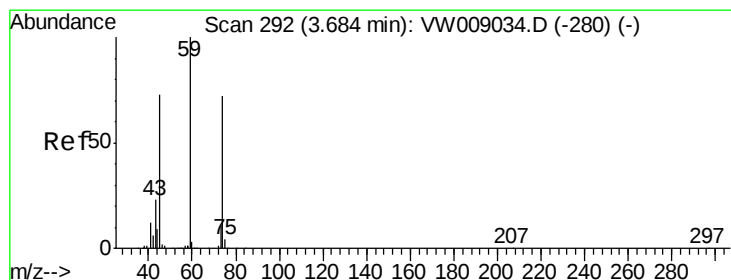
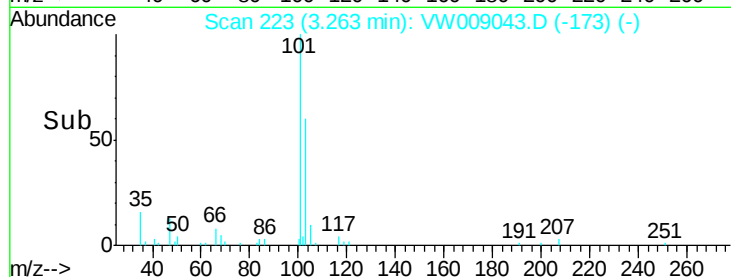
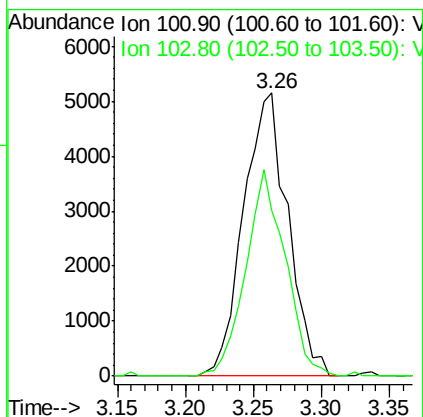
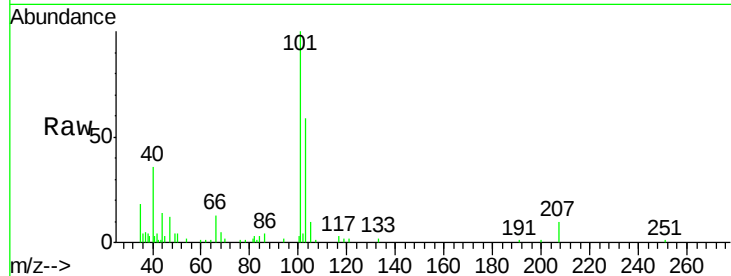


#7

Trichlorofluoromethane
 Concen: 2.525 ug/l
 RT: 3.26 min Scan# 223
 Delta R.T. 0.01 min
 Lab File: VW009043.D
 Acq: 07 Mar 2019 16:48

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 MSVOA_W
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 MDL-MDL-SOIL-03-QT1-2019

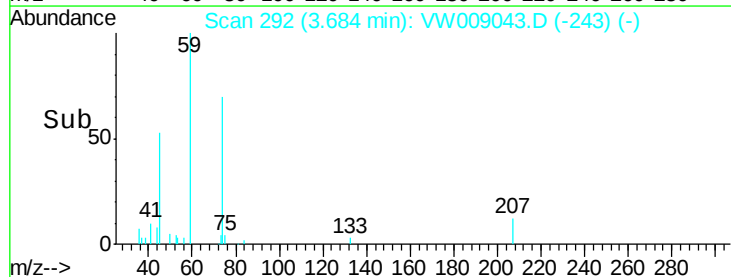
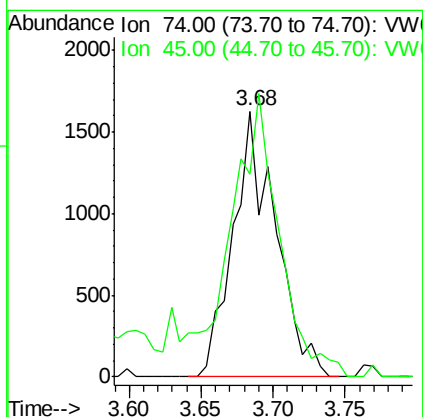
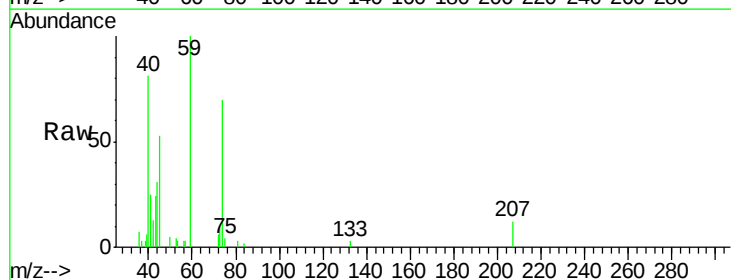
Tgt Ion:101 Resp: 11738
 Ion Ratio Lower Upper
 101 100
 103 58.5 49.9 74.9

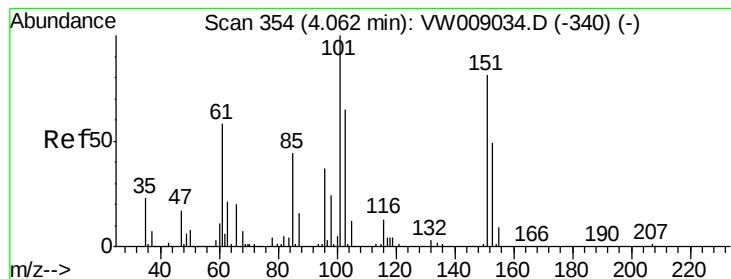


#8

Diethyl Ether
 Concen: 2.343 ug/l
 RT: 3.68 min Scan# 292
 Delta R.T. 0.00 min
 Lab File: VW009043.D
 Acq: 07 Mar 2019 16:48

Tgt Ion: 74 Resp: 3331
 Ion Ratio Lower Upper
 74 100
 45 119.3 52.3 157.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.647 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

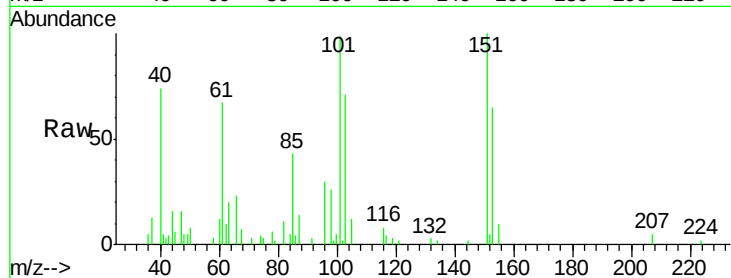
Tgt Ion:101 Resp: 7664

Ion Ratio Lower Upper

101 100

85 44.5 36.2 54.4

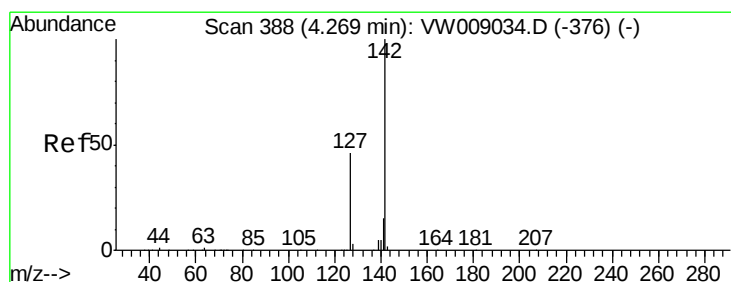
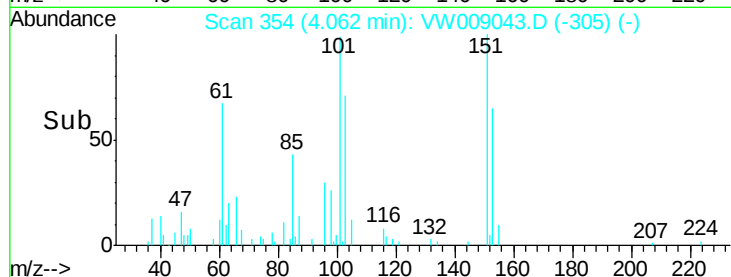
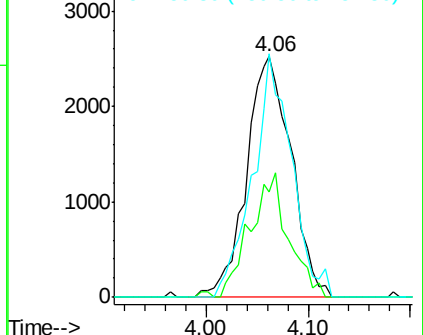
151 88.4 63.4 95.2



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VW

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.745 ug/l

RT: 4.28 min Scan# 389

Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

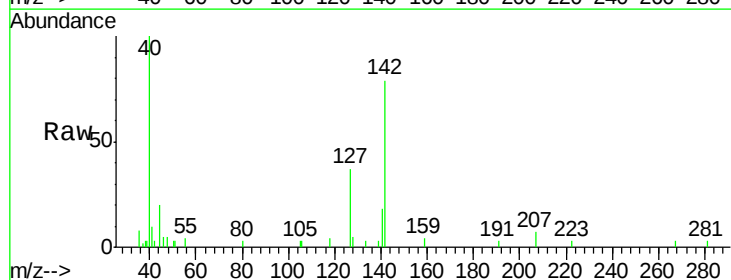
Tgt Ion:142 Resp: 5225

Ion Ratio Lower Upper

142 100

127 45.1 35.8 53.6

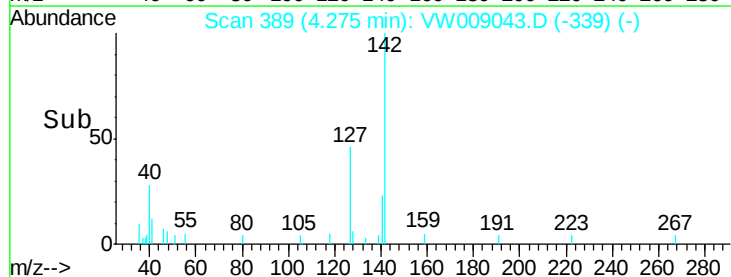
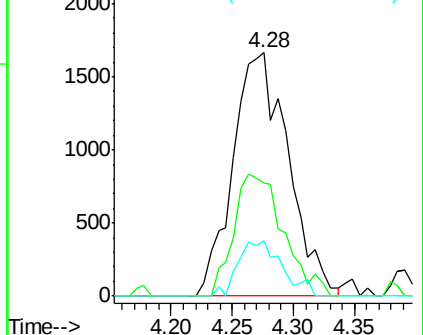
141 18.0 11.8 17.8#

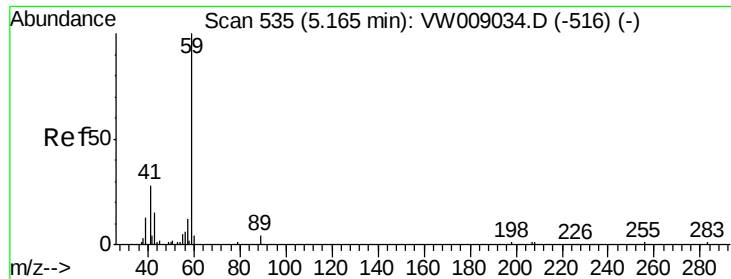


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

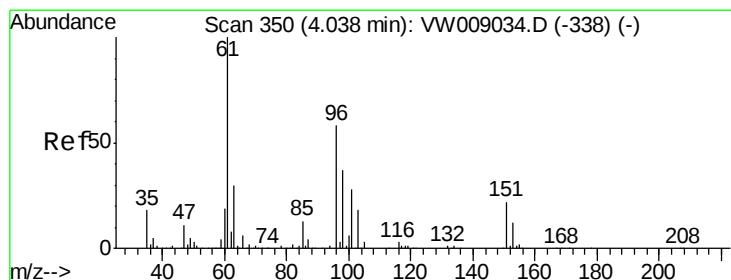
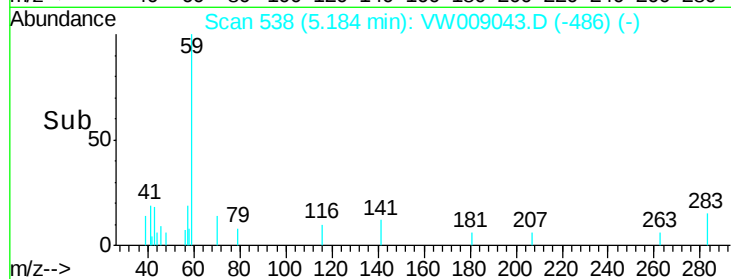
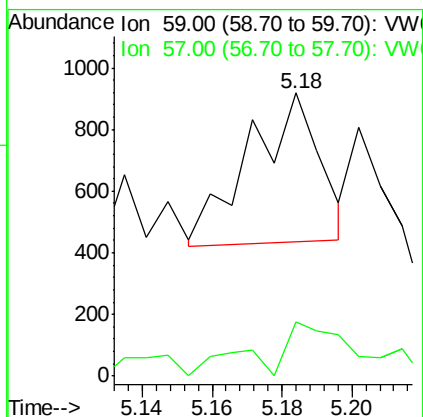
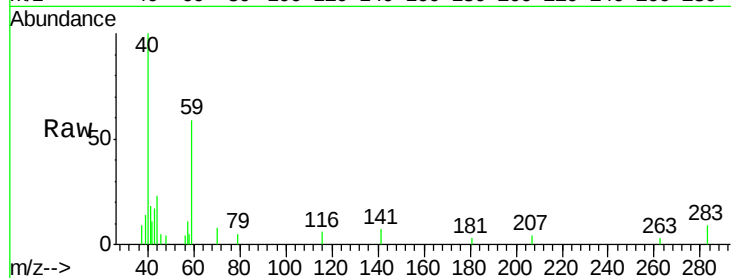




#11
Tert butyl alcohol
Concen: 3.169 ug/l
RT: 5.18 min Scan# 538
Delta R.T. 0.02 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

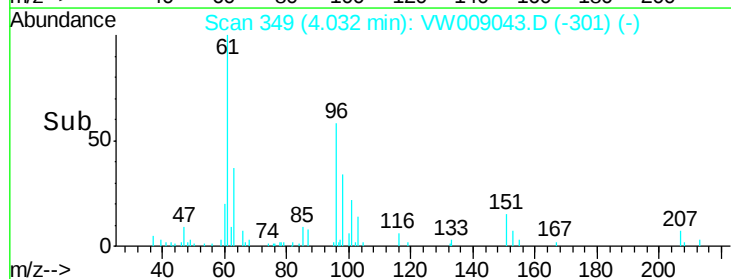
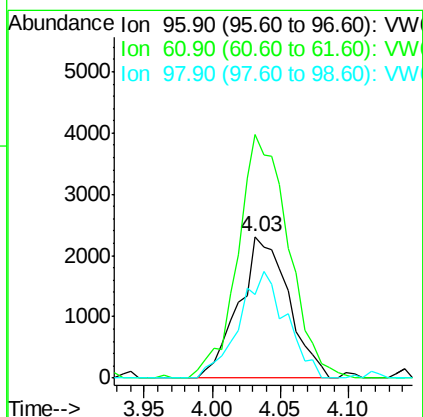
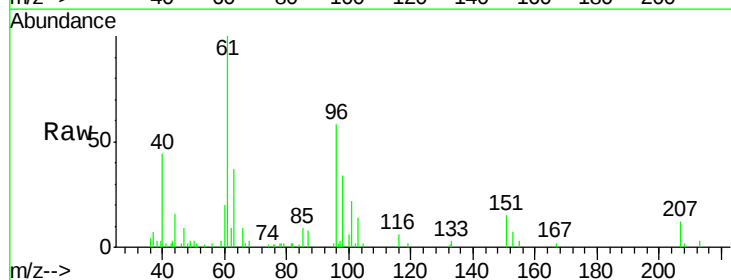
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

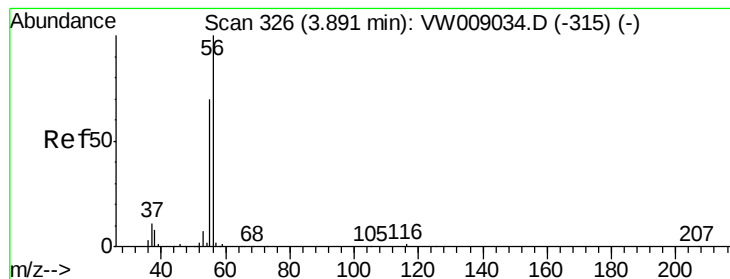
Tgt Ion: 59 Resp: 679
Ion Ratio Lower Upper
59 100
57 48.2 8.6 12.8#



#12
1,1-Dichloroethene
Concen: 2.354 ug/l
RT: 4.03 min Scan# 349
Delta R.T. -0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion: 96 Resp: 5879
Ion Ratio Lower Upper
96 100
61 172.3 138.2 207.2
98 58.9 51.3 76.9





#13

Acrolein

Concen: 12.079 ug/l

RT: 3.91 min Scan# 329

Delta R.T. 0.02 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

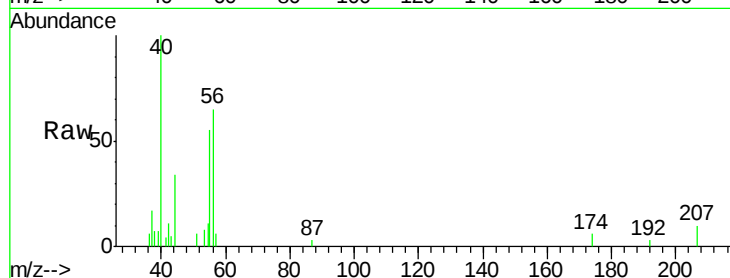
MDL-MDL-SOIL-03-QT1-2019

Tgt Ion: 56 Resp: 2848

Ion Ratio Lower Upper

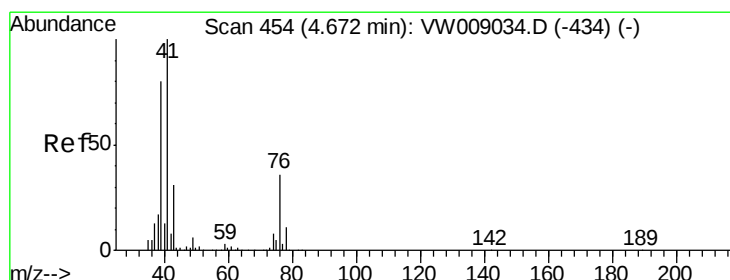
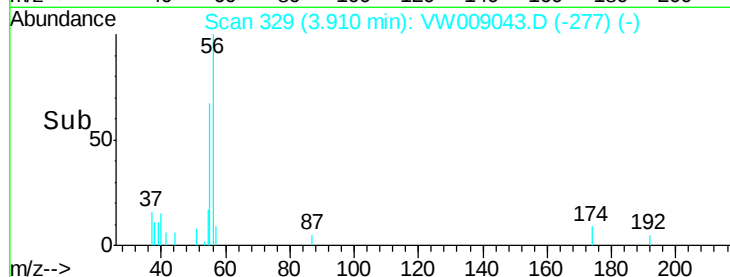
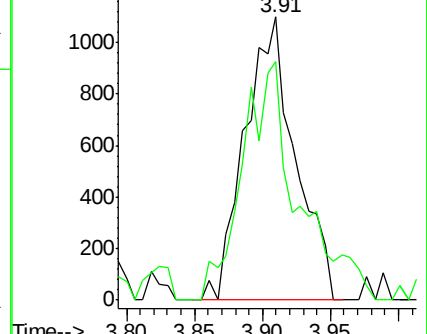
56 100

55 93.8 56.6 84.8#



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#14

Allyl chloride

Concen: 2.423 ug/l

RT: 4.68 min Scan# 455

Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

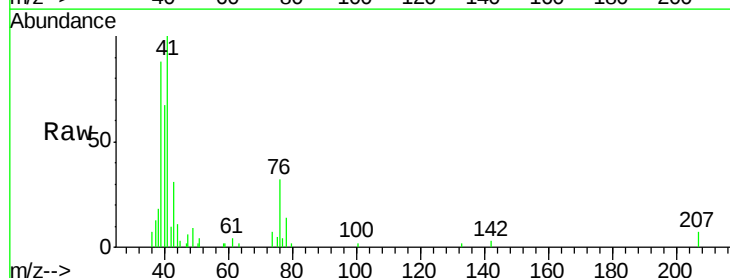
Tgt Ion: 41 Resp: 10674

Ion Ratio Lower Upper

41 100

39 74.0 63.0 94.4

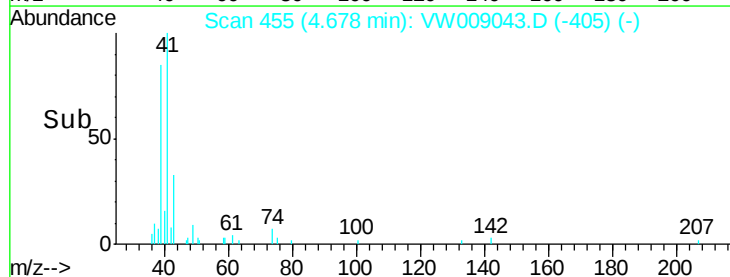
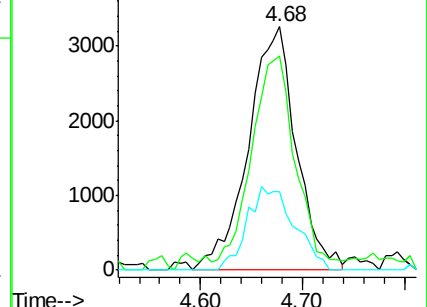
76 33.5 28.2 42.2

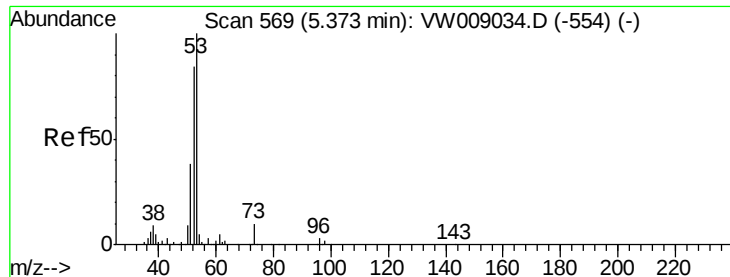


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW





#15

Acrylonitrile

Concen: 13.492 ug/l

RT: 5.37 min Scan# 568

Delta R.T. -0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

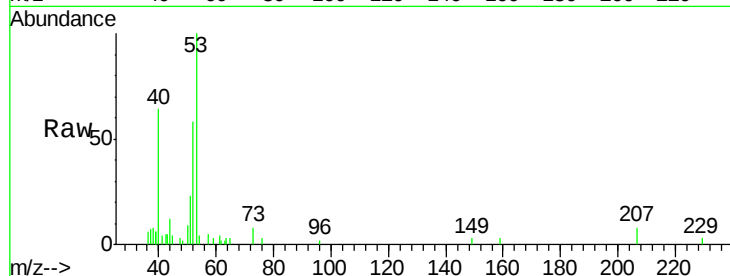
Tgt Ion: 53 Resp: 8371

Ion Ratio Lower Upper

53 100

52 0.0 67.2 100.8#

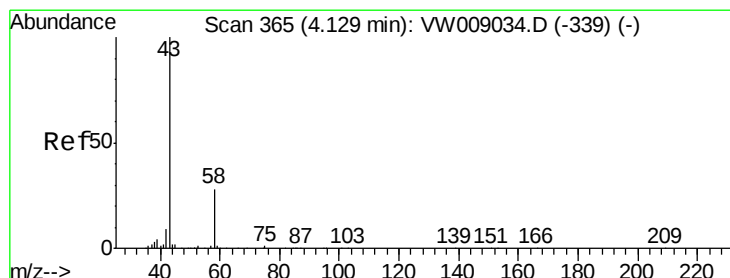
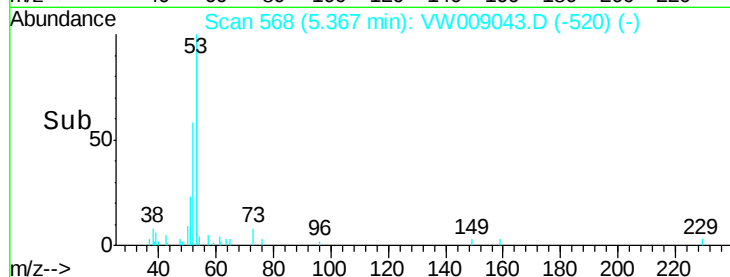
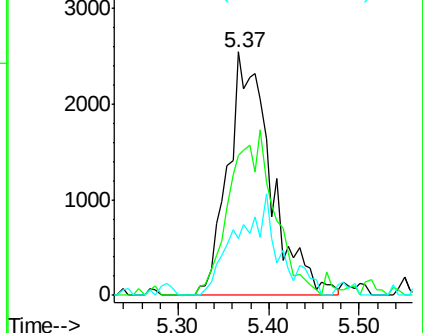
51 0.0 31.8 47.6#



Abundance Ion 53.00 (52.70 to 53.70): VW

Ion 52.00 (51.70 to 52.70): VW

Ion 51.00 (50.70 to 51.70): VW



#16

Acetone

Concen: 14.552 ug/l

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW009043.D

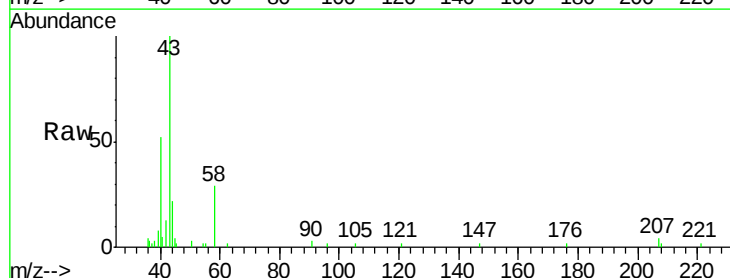
Acq: 07 Mar 2019 16:48

Tgt Ion: 43 Resp: 9182

Ion Ratio Lower Upper

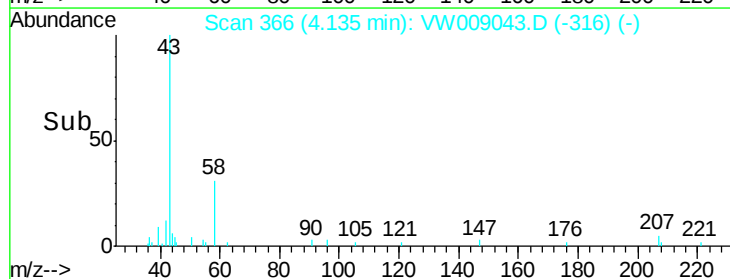
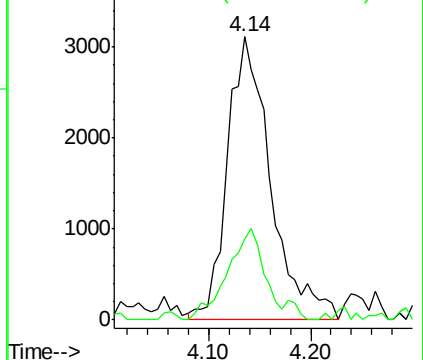
43 100

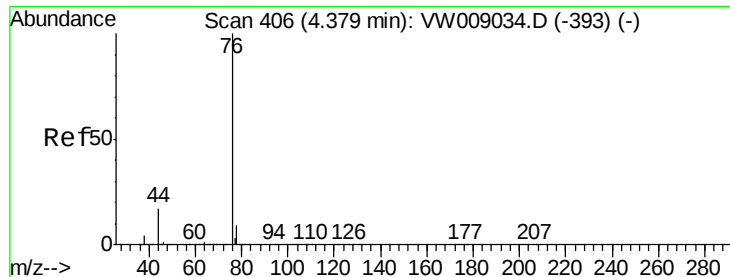
58 28.6 22.5 33.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#17

Carbon Disulfide

Concen: 2.389 ug/l

RT: 4.37 min Scan# 405

Delta R.T. -0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

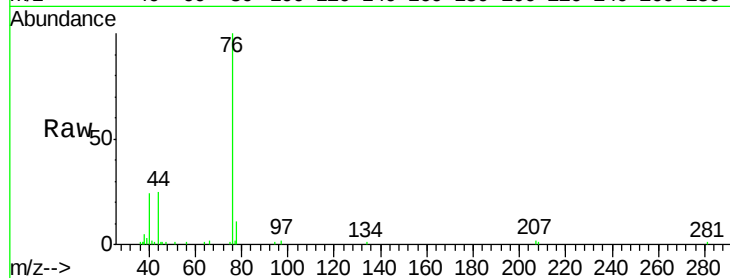
MDL-MDL-SOIL-03-QT1-2019

Tgt Ion: 76 Resp: 20075

Ion Ratio Lower Upper

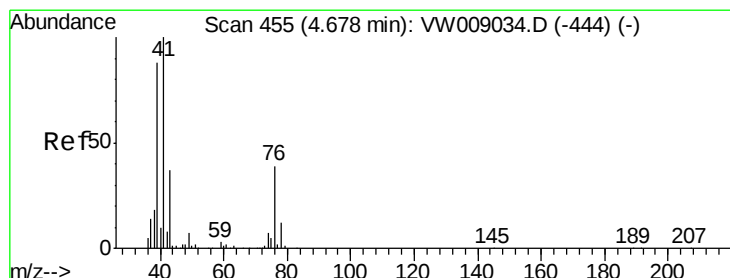
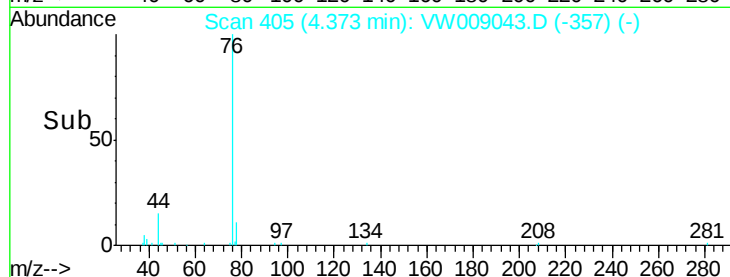
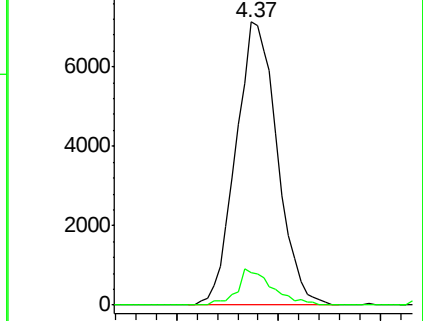
76 100

78 11.4 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 2.877 ug/l

RT: 4.69 min Scan# 457

Delta R.T. 0.01 min

Lab File: VW009043.D

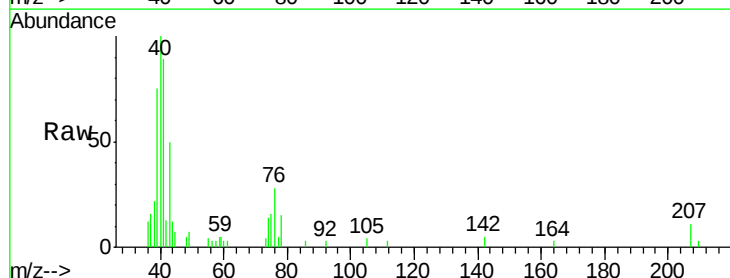
Acq: 07 Mar 2019 16:48

Tgt Ion: 43 Resp: 4175

Ion Ratio Lower Upper

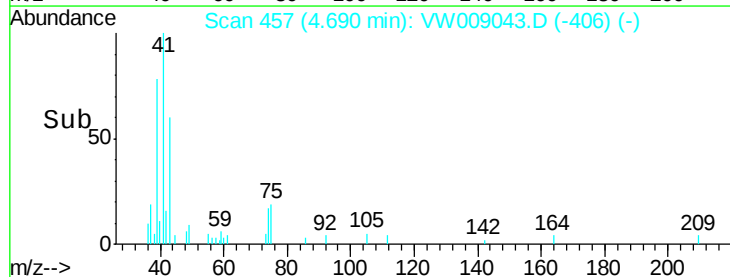
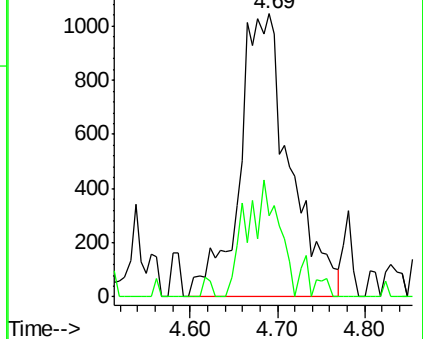
43 100

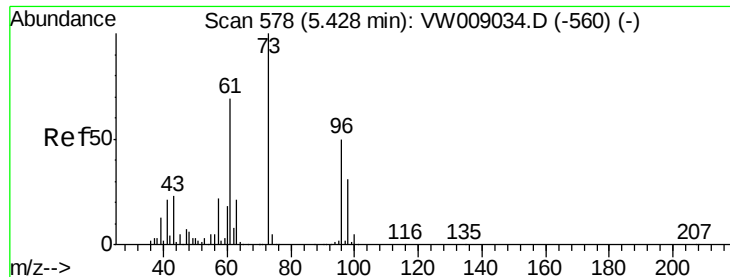
74 14.7 17.6 26.4#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW

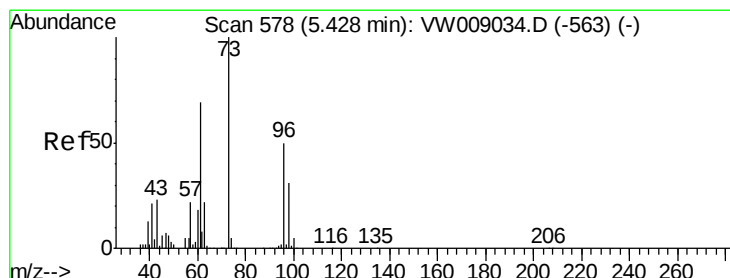
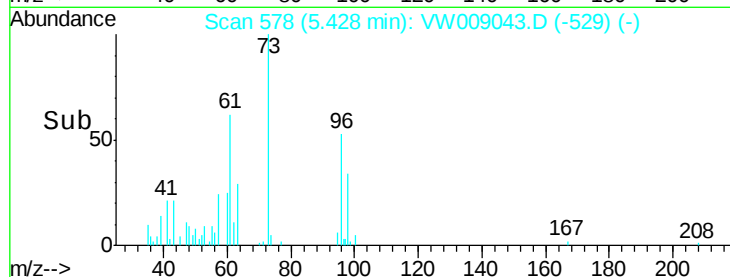
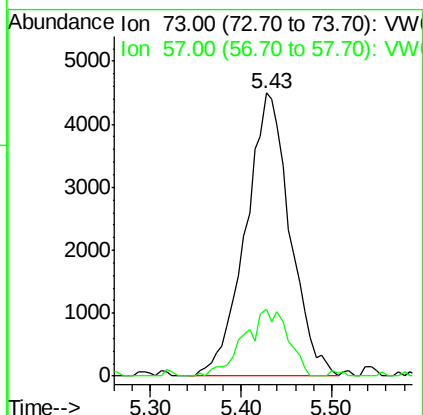
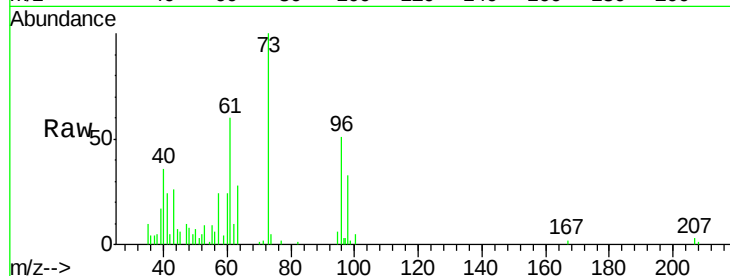




#19
Methyl tert-butyl Ether
Concen: 2.307 ug/l
RT: 5.43 min Scan# 578
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

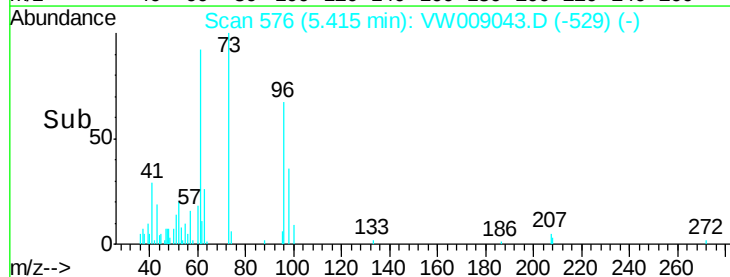
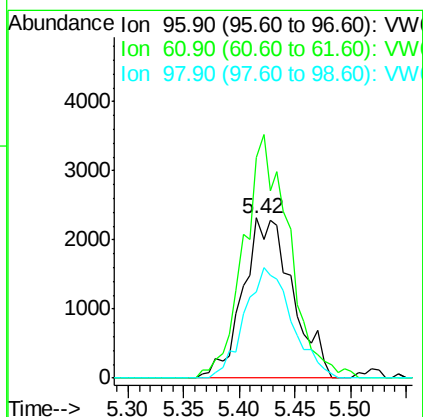
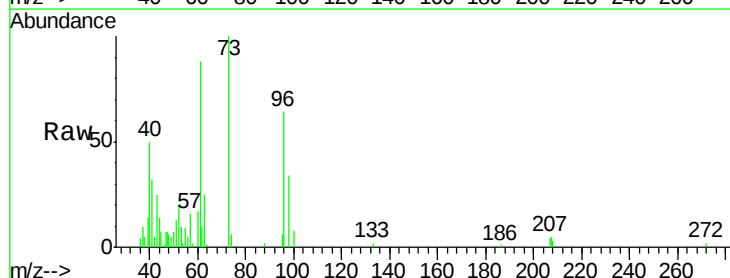
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

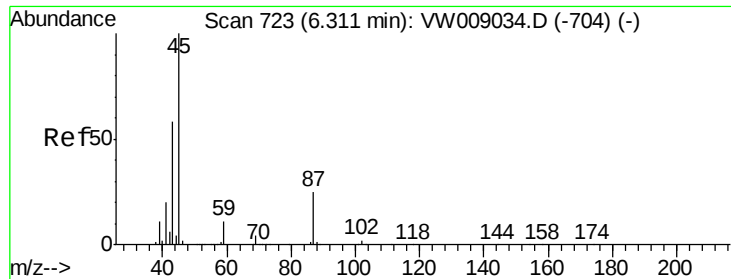
Tgt Ion: 73 Resp: 15245
Ion Ratio Lower Upper
73 100
57 23.6 17.3 25.9



#21
trans-1,2-Dichloroethene
Concen: 2.482 ug/l
RT: 5.42 min Scan# 576
Delta R.T. -0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion: 96 Resp: 7159
Ion Ratio Lower Upper
96 100
61 137.7 111.0 166.6
98 53.7 49.4 74.0

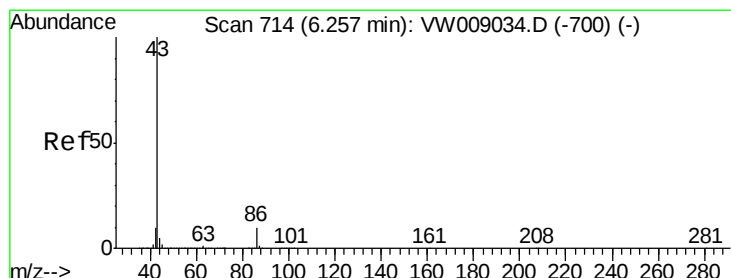
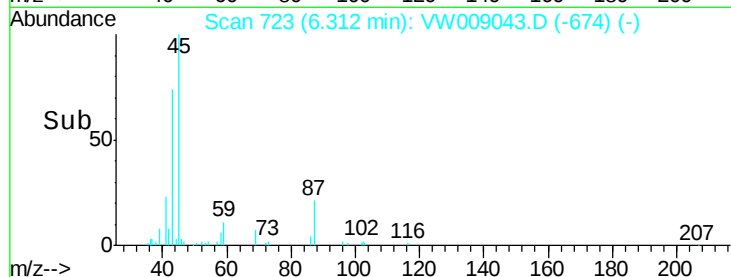
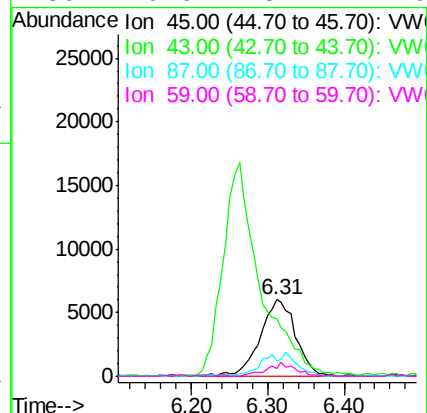
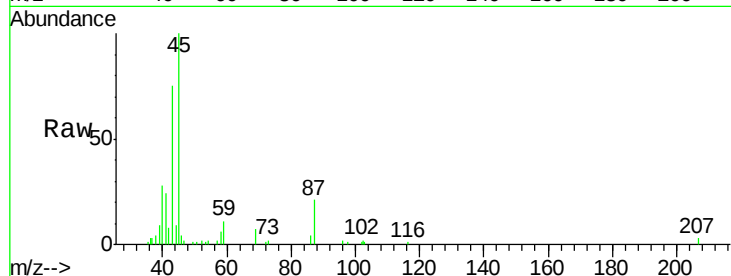




#22
Diisopropyl ether
Concen: 2.222 ug/l
RT: 6.31 min Scan# 723
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

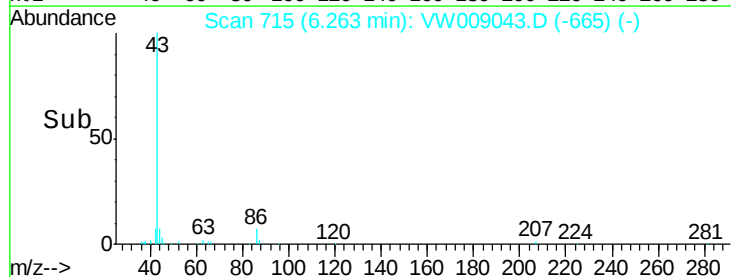
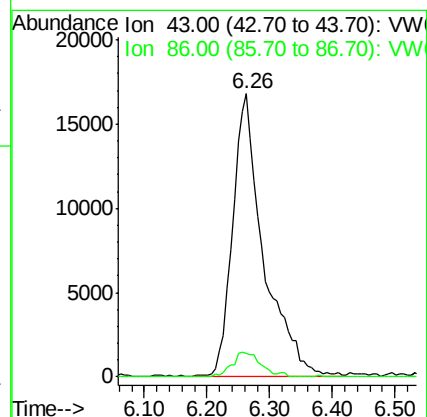
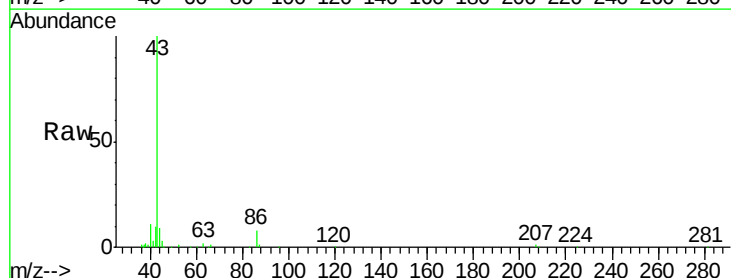
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

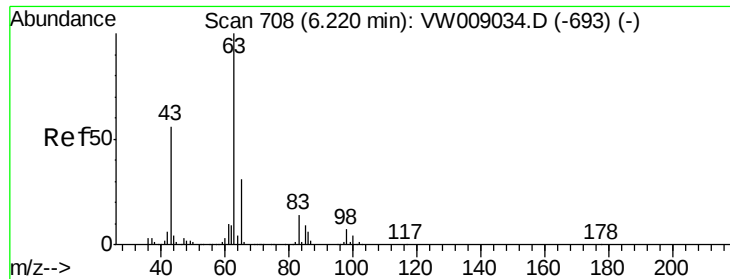
Tgt Ion:	45	Resp:	19457
Ion	Ratio	Lower	Upper
45	100		
43	73.4	46.2	69.4#
87	20.7	20.1	30.1
59	10.6	8.4	12.6



#23
Vinyl Acetate
Concen: 10.534 ug/l
RT: 6.26 min Scan# 715
Delta R.T. 0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion:	43	Resp:	57399
Ion	Ratio	Lower	Upper
43	100		
86	8.4	7.6	11.4

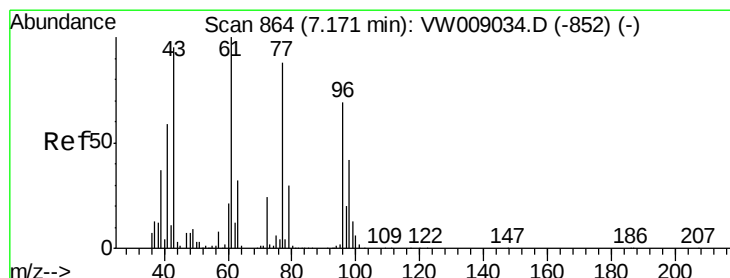
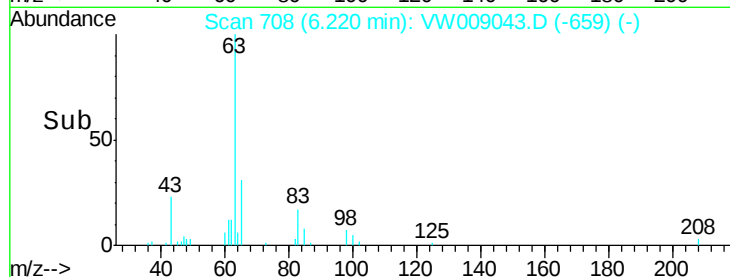
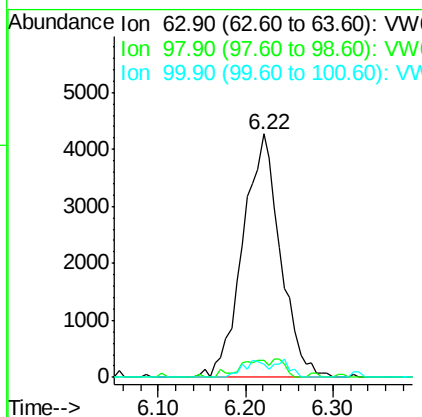
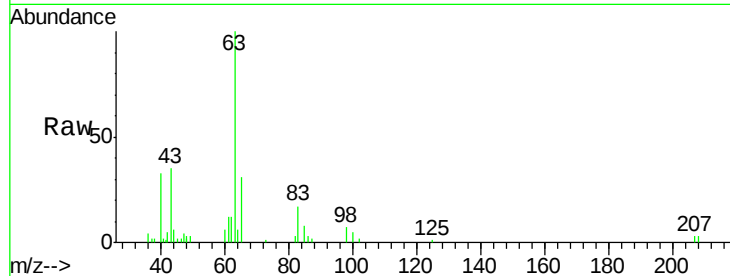




#24
 1,1-Dichloroethane
 Concen: 2.502 ug/l
 RT: 6.22 min Scan# 708
 Delta R.T. 0.00 min
 Lab File: VW009043.D
 Acq: 07 Mar 2019 16:48

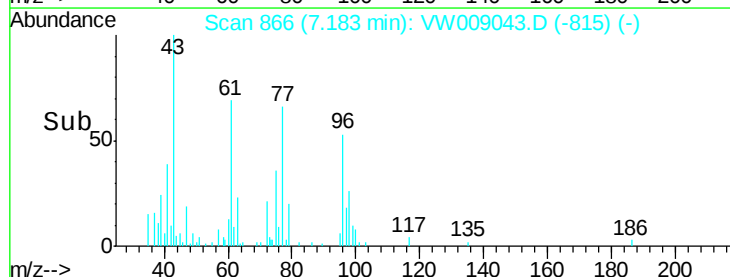
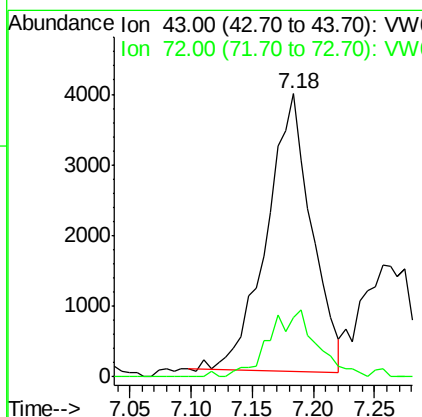
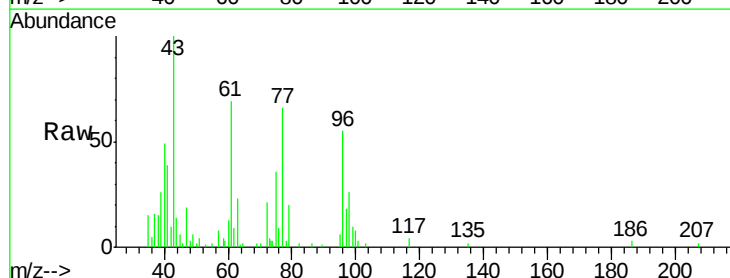
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT1-2019

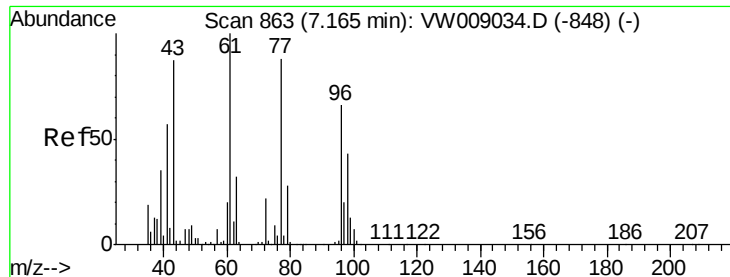
Tgt Ion: 63 Resp: 12708
 Ion Ratio Lower Upper
 63 100
 98 7.2 3.4 10.2
 100 5.4 2.1 6.2



#25
 2-Butanone
 Concen: 11.487 ug/l
 RT: 7.18 min Scan# 866
 Delta R.T. 0.01 min
 Lab File: VW009043.D
 Acq: 07 Mar 2019 16:48

Tgt Ion: 43 Resp: 10017
 Ion Ratio Lower Upper
 43 100
 72 21.8 20.0 30.0





#26

2,2-Dichloropropane

Concen: 2.701 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

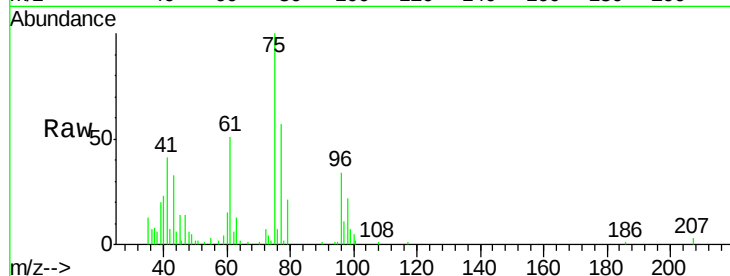
MDL-MDL-SOIL-03-QT1-2019

Tgt Ion: 77 Resp: 12467

Ion Ratio Lower Upper

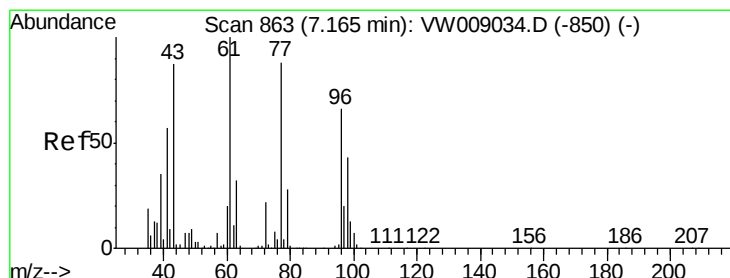
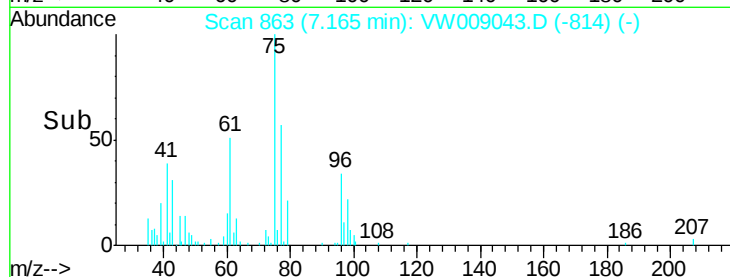
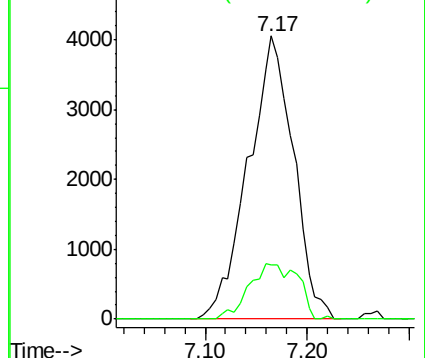
77 100

97 20.8 10.9 32.9



Abundance Ion 76.90 (76.60 to 77.60): VW

Ion 96.90 (96.60 to 97.60): VW



#27

cis-1,2-Dichloroethene

Concen: 2.332 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

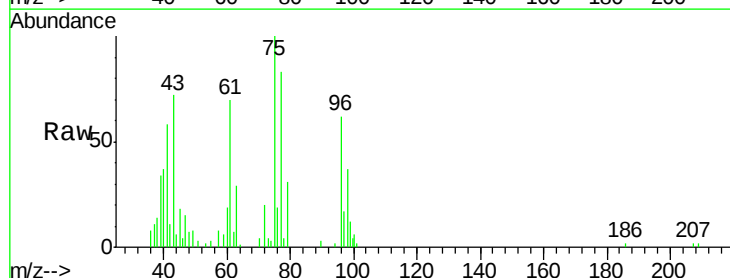
Tgt Ion: 96 Resp: 7223

Ion Ratio Lower Upper

96 100

61 164.1 0.0 299.8

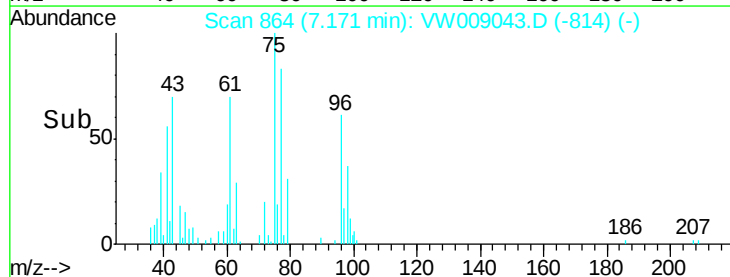
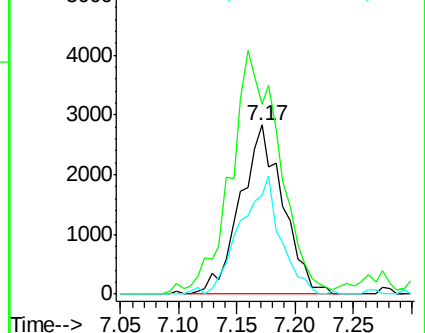
98 65.1 0.0 127.2

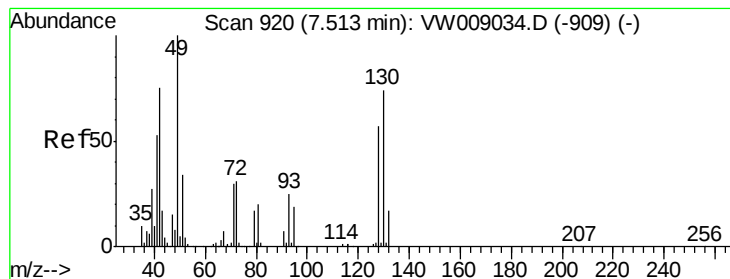


Abundance Ion 95.90 (95.60 to 96.60): VW

Ion 60.90 (60.60 to 61.60): VW

Ion 97.90 (97.60 to 98.60): VW





#28

Bromochloromethane

Concen: 2.507 ug/l

RT: 7.51 min Scan# 920

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

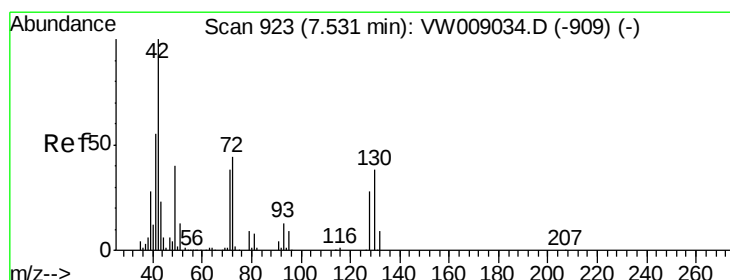
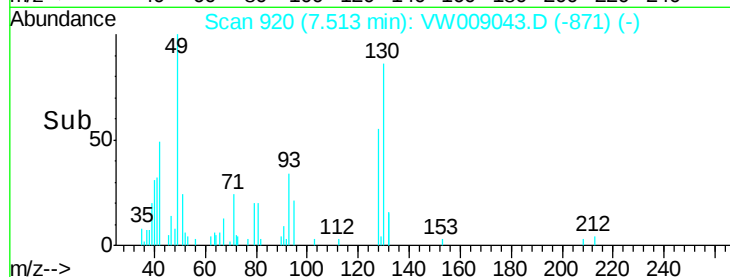
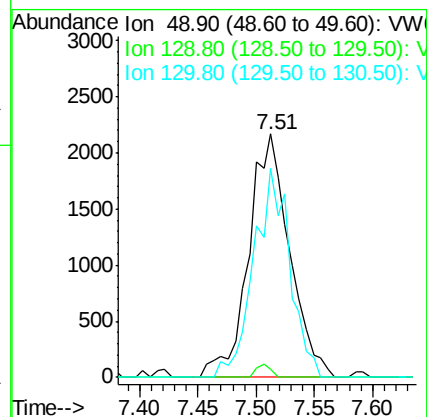
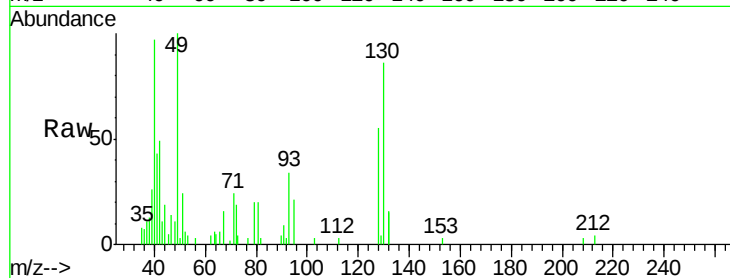
Tgt Ion: 49 Resp: 5296

Ion Ratio Lower Upper

49 100

129 1.9 0.0 4.6

130 75.6 60.4 90.6



#29

Tetrahydrofuran

Concen: 11.537 ug/l

RT: 7.54 min Scan# 925

Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

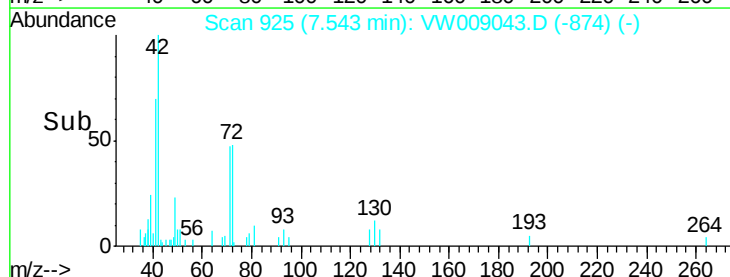
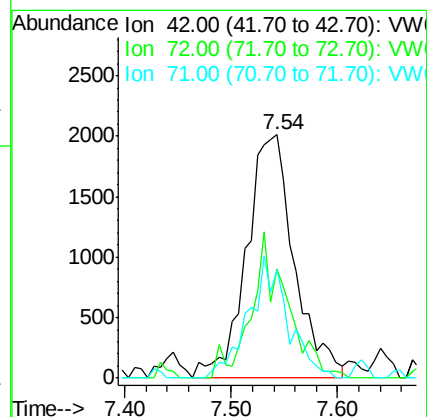
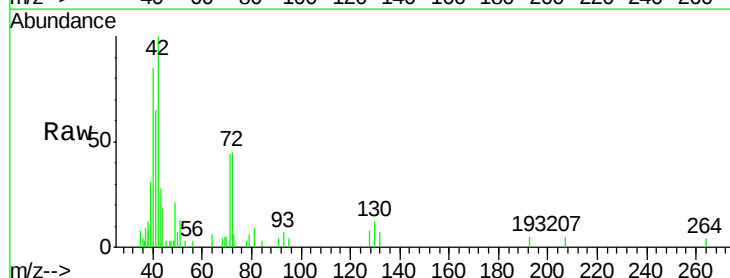
Tgt Ion: 42 Resp: 6340

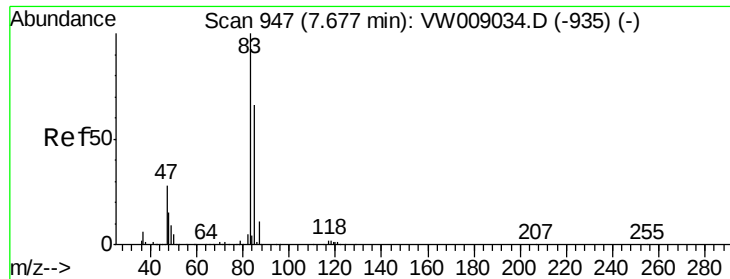
Ion Ratio Lower Upper

42 100

72 42.3 32.2 48.4

71 41.1 30.7 46.1

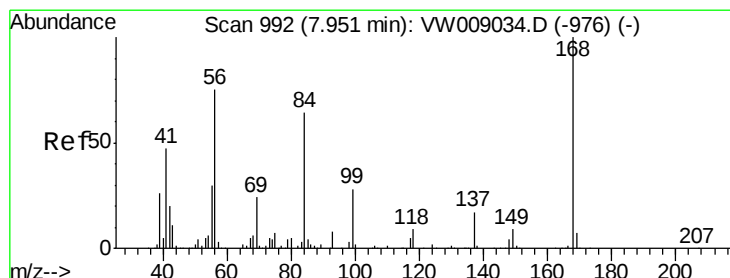
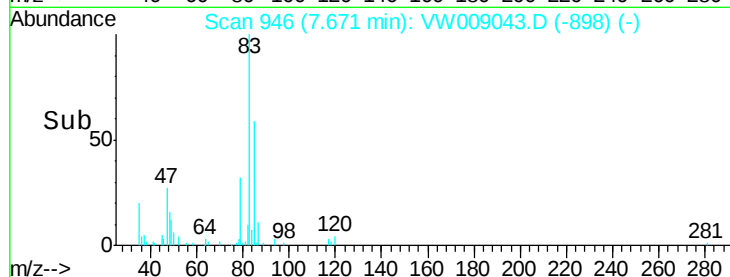
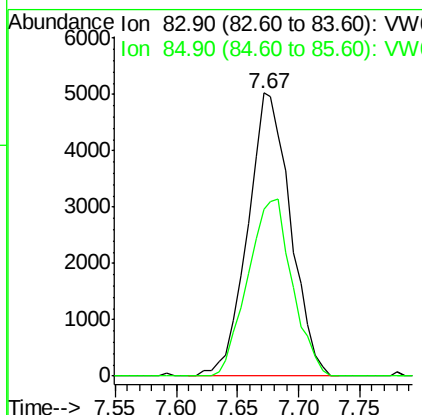
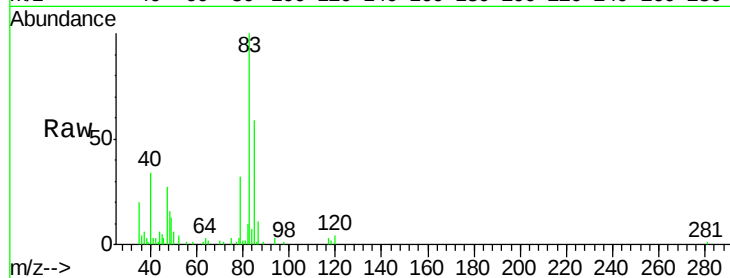




#30
Chloroform
Concen: 2.336 ug/l
RT: 7.67 min Scan# 946
Delta R.T. -0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

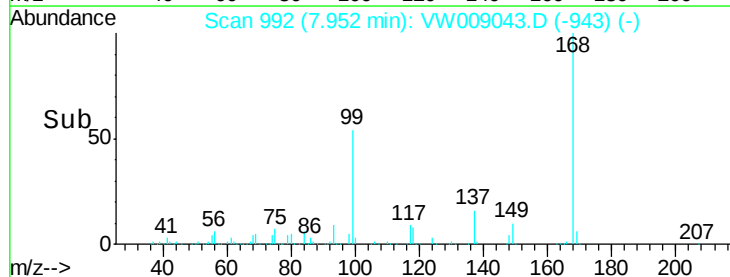
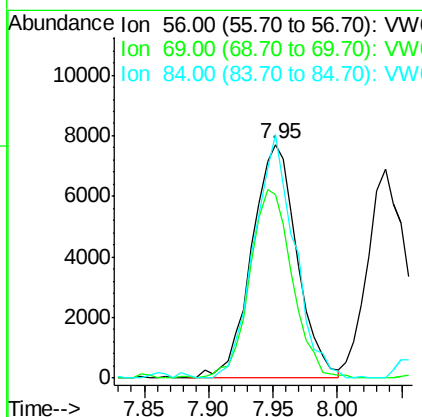
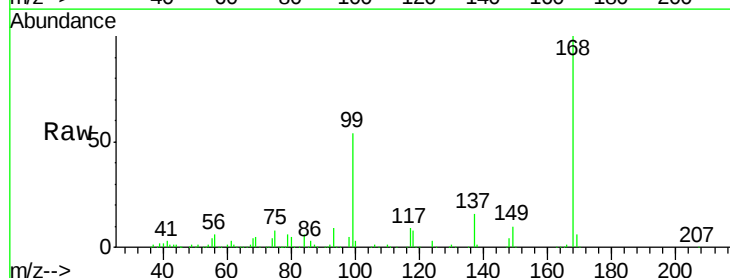
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

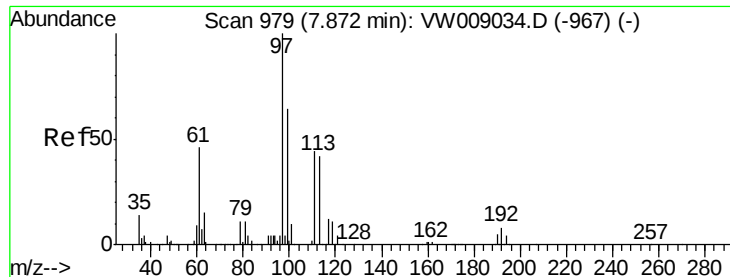
Tgt Ion: 83 Resp: 12212
Ion Ratio Lower Upper
83 100
85 58.9 53.0 79.6



#31
Cyclohexane
Concen: 3.601 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion: 56 Resp: 18777
Ion Ratio Lower Upper
56 100
69 78.0 25.5 38.3#
84 103.1 68.6 103.0#





#32

1,1,1-Trichloroethane

Concen: 2.523 ug/l

RT: 7.87 min Scan# 979

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

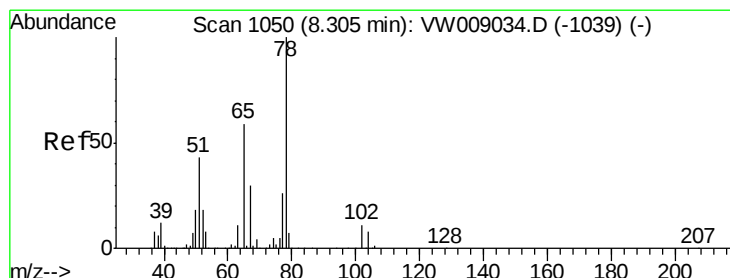
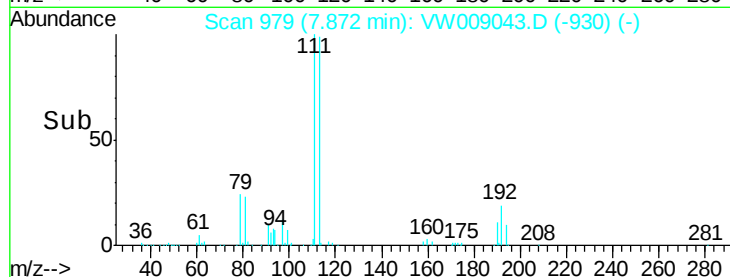
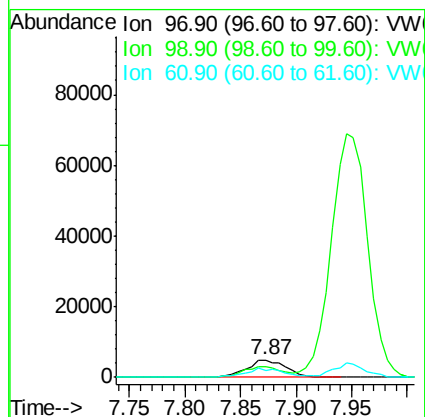
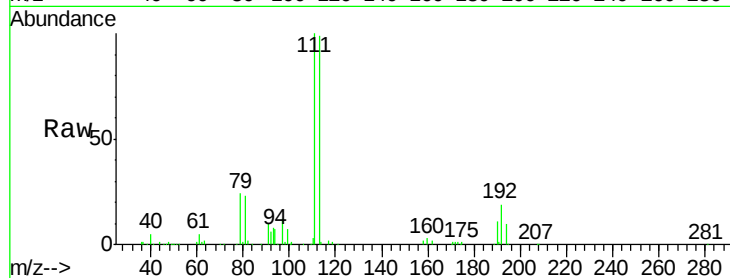
Tgt Ion: 97 Resp: 12174

Ion Ratio Lower Upper

97 100

99 59.4 51.8 77.8

61 49.3 37.3 55.9



#33

1,2-Dichloroethane-d4

Concen: 53.370 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW009043.D

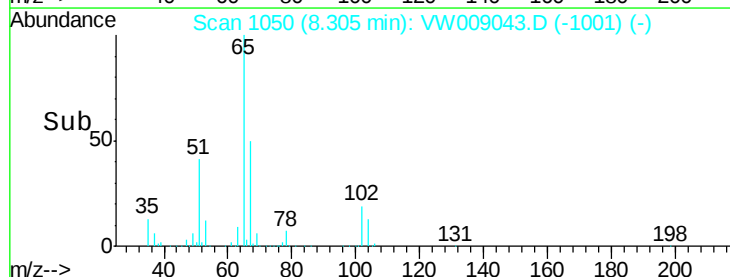
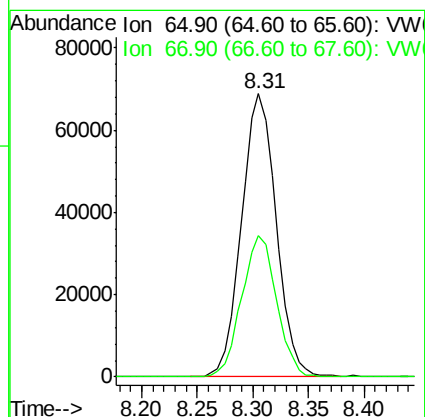
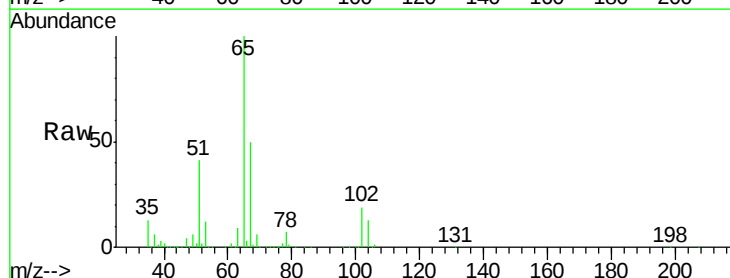
Acq: 07 Mar 2019 16:48

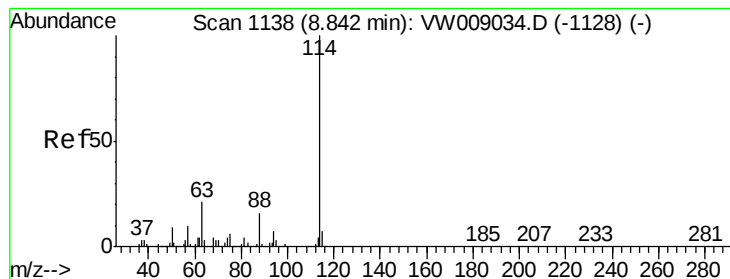
Tgt Ion: 65 Resp: 149231

Ion Ratio Lower Upper

65 100

67 50.1 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

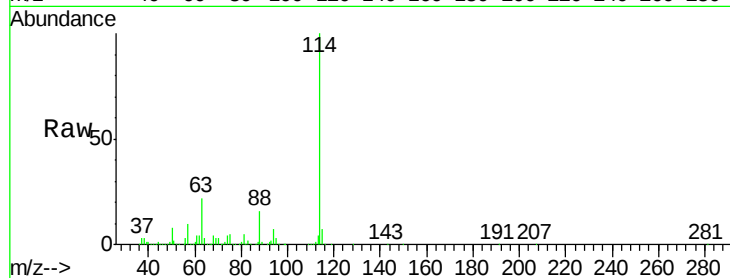
Tgt Ion:114 Resp: 399532

Ion Ratio Lower Upper

114 100

63 22.3 0.0 41.2

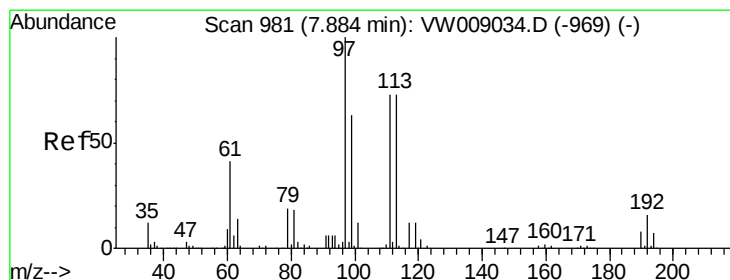
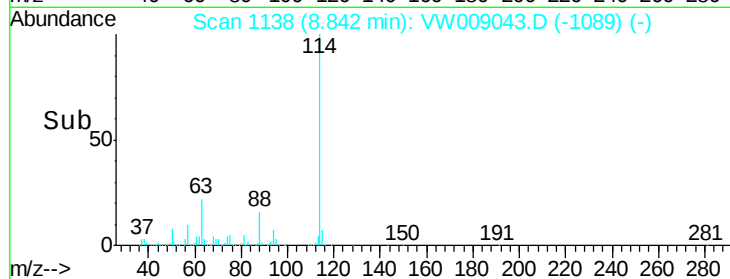
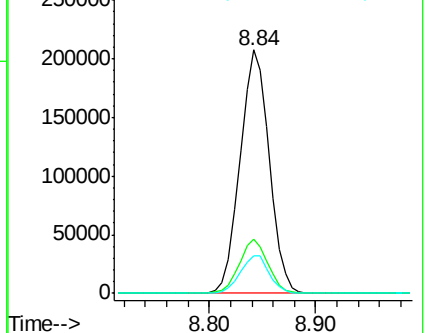
88 15.6 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VW

Ion 87.90 (87.60 to 88.60): VW



#35

Dibromofluoromethane

Concen: 53.716 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

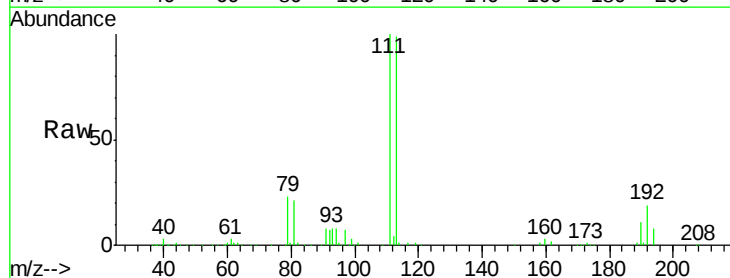
Tgt Ion:113 Resp: 129216

Ion Ratio Lower Upper

113 100

111 101.7 81.0 121.4

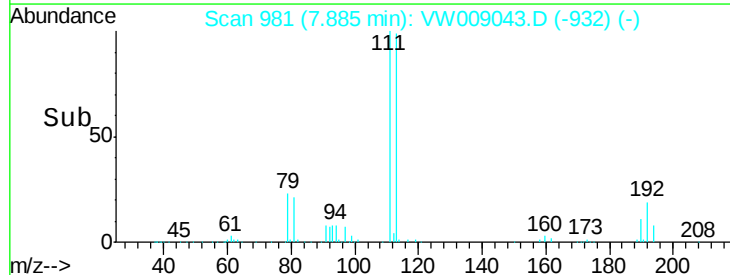
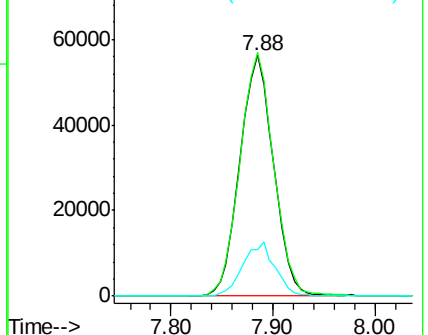
192 21.4 17.1 25.7

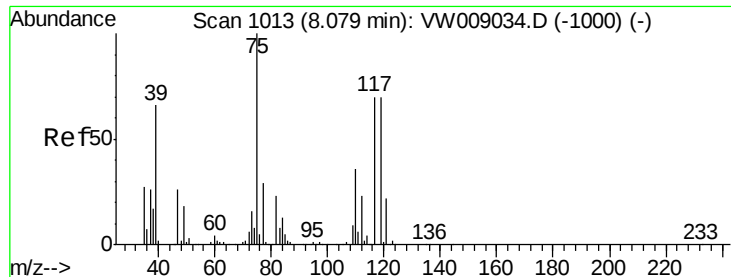


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 2.642 ug/l

RT: 8.08 min Scan# 1013

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

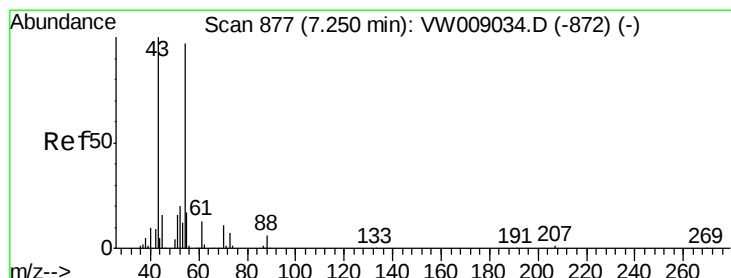
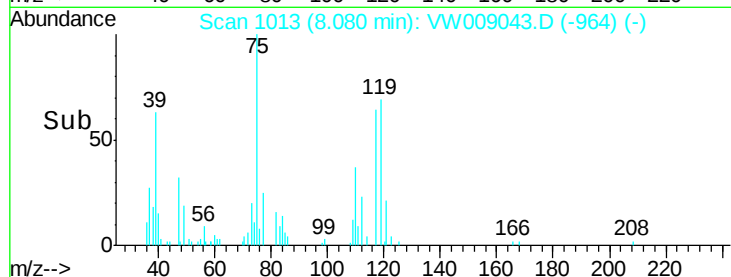
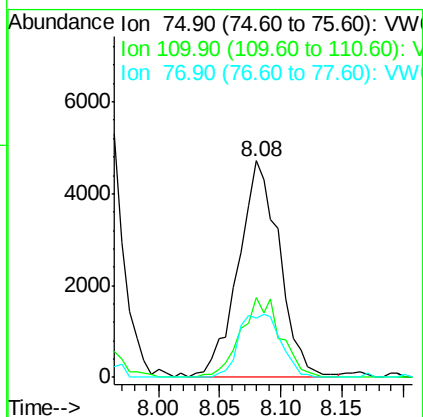
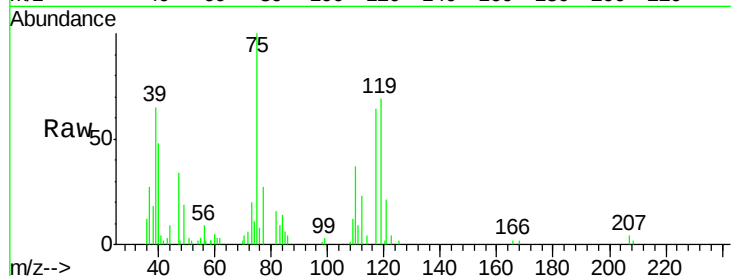
Tgt Ion: 75 Resp: 11039

Ion Ratio Lower Upper

75 100

110 35.9 17.6 52.9

77 29.9 25.1 37.7



#37

Ethyl Acetate

Concen: 2.234 ug/l

RT: 7.26 min Scan# 878

Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

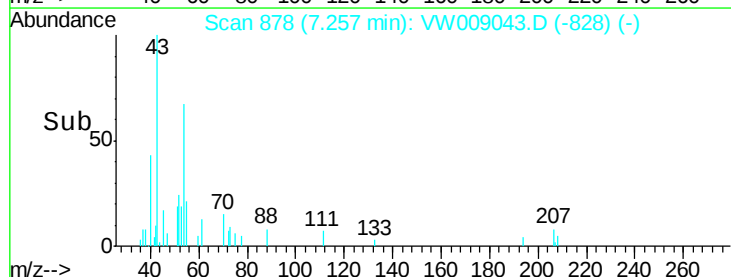
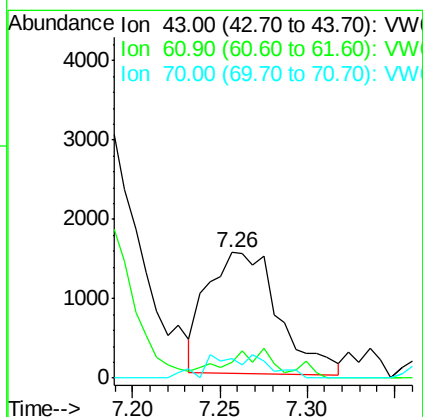
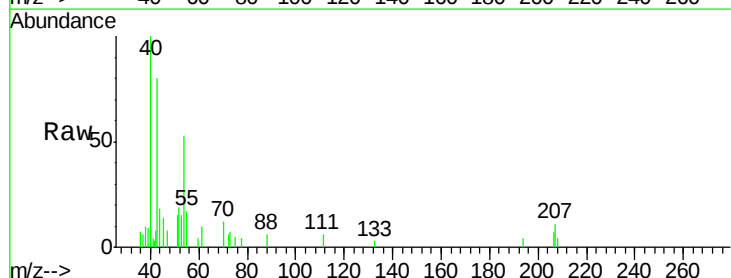
Tgt Ion: 43 Resp: 4383

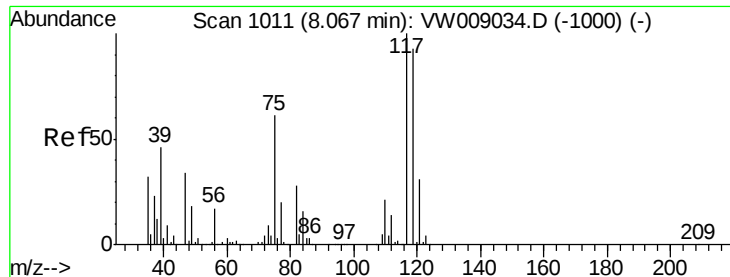
Ion Ratio Lower Upper

43 100

61 0.0 9.8 14.6#

70 9.2 7.2 10.8

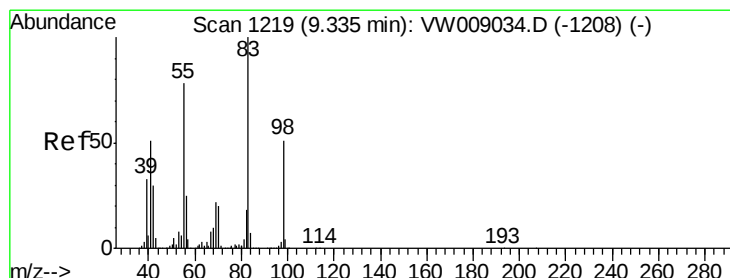
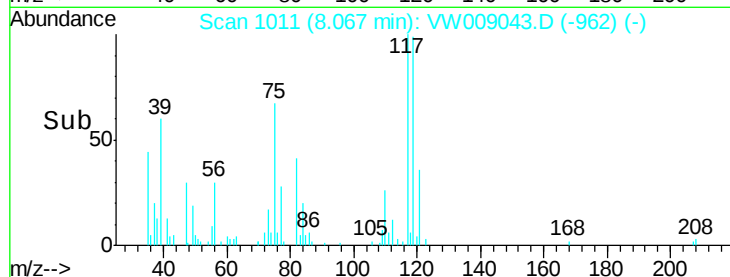
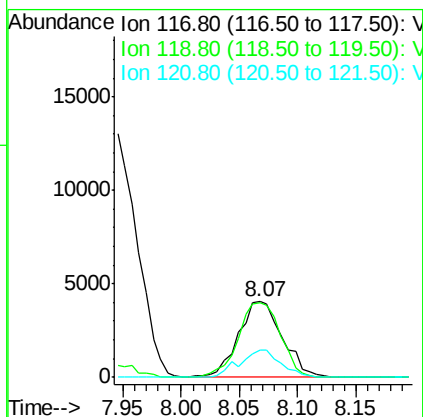
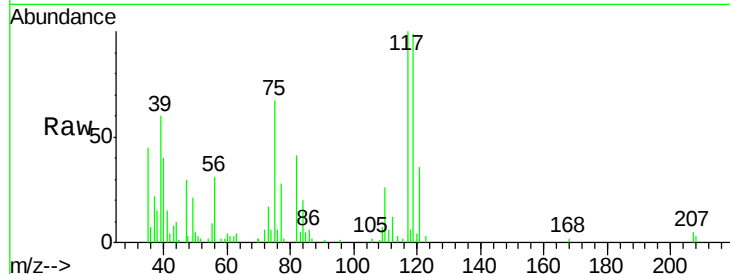




#38
Carbon Tetrachloride
Concen: 2.479 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

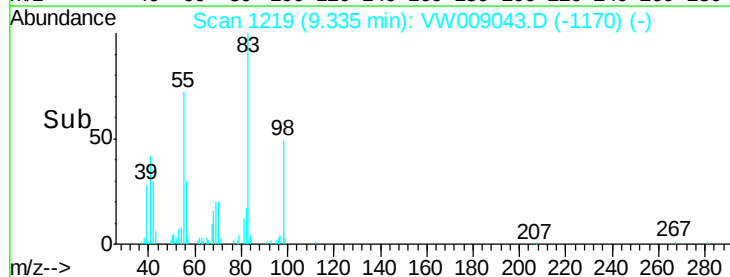
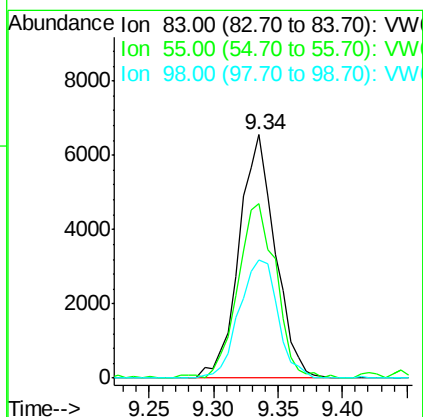
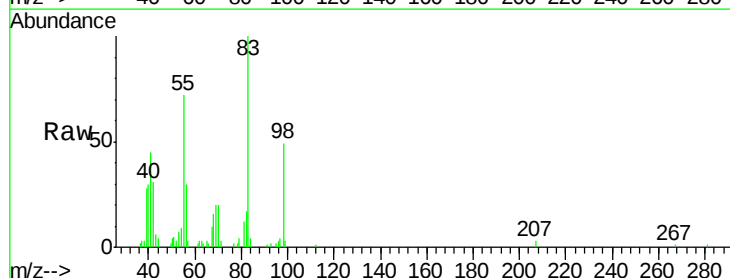
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

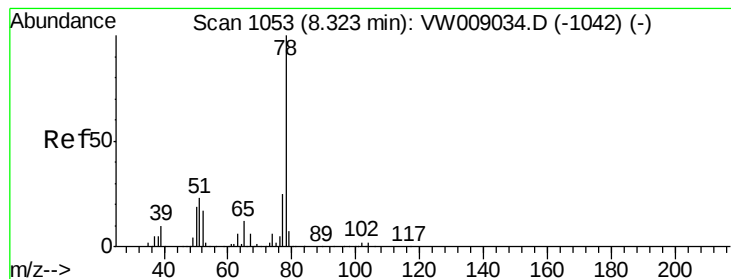
Tgt Ion:117 Resp: 10696
Ion Ratio Lower Upper
117 100
119 99.4 74.6 112.0
121 36.5 24.7 37.1



#39
Methylcyclohexane
Concen: 2.559 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion: 83 Resp: 12733
Ion Ratio Lower Upper
83 100
55 71.8 62.7 94.1
98 48.6 40.8 61.2





#40

Benzene

Concen: 2.392 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

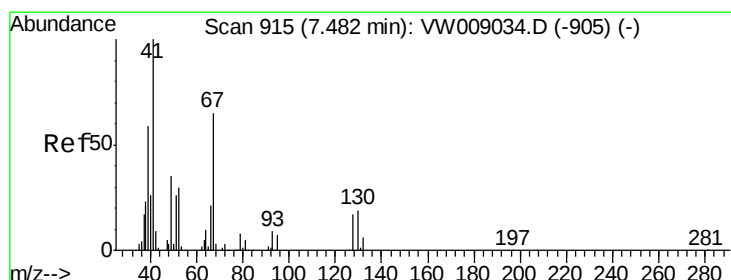
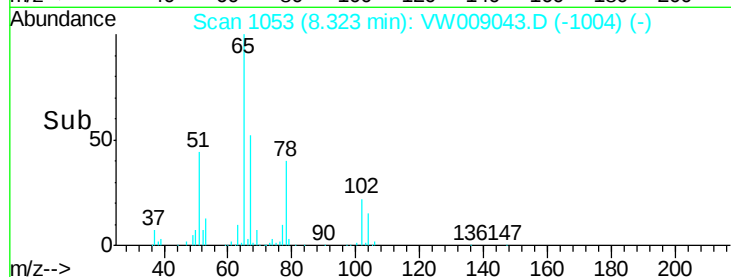
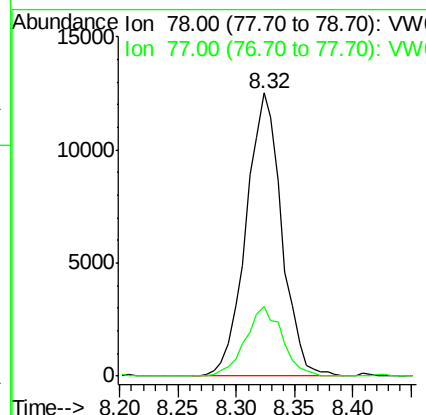
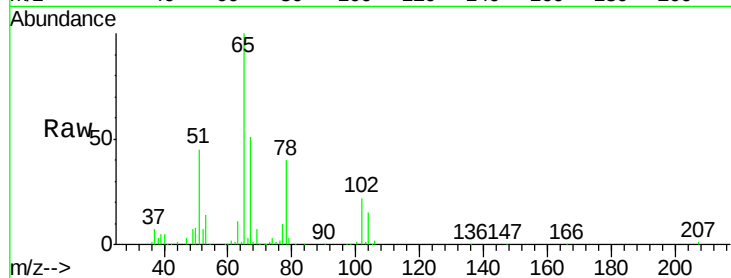
MDL-MDL-SOIL-03-QT1-2019

Tgt Ion: 78 Resp: 26671

Ion Ratio Lower Upper

78 100

77 24.5 20.2 30.4



#41

Methacrylonitrile

Concen: 1.503 ug/l

RT: 7.48 min Scan# 915

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Tgt Ion: 41 Resp: 1638

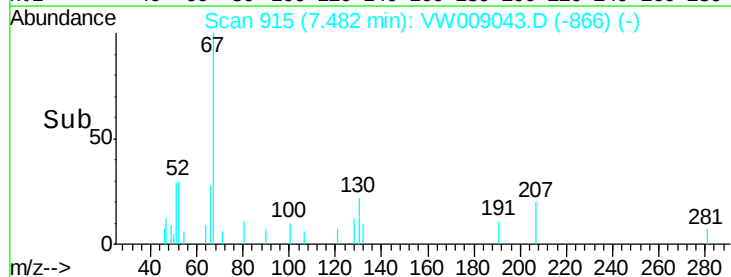
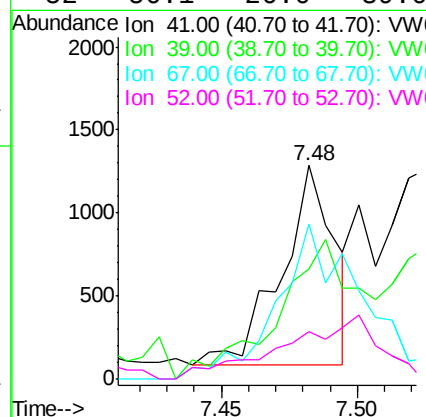
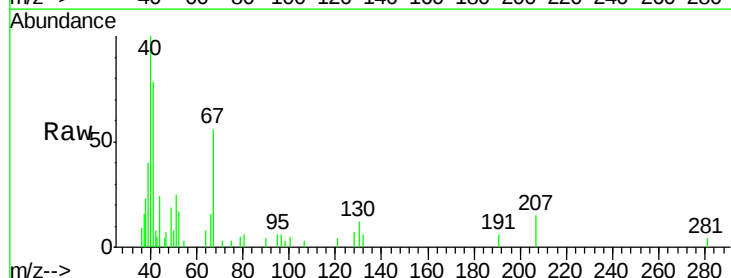
Ion Ratio Lower Upper

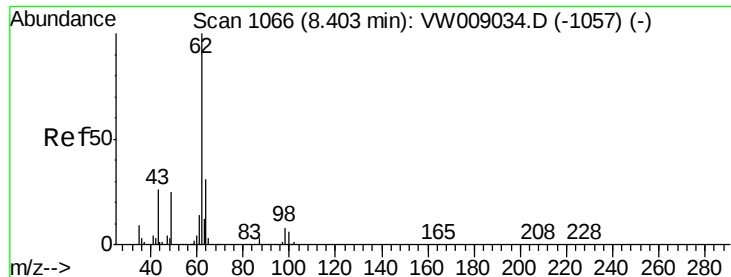
41 100

39 86.1 53.6 80.4#

67 127.0 57.6 86.4#

52 56.1 26.0 39.0#





#42

1,2-Dichloroethane

Concen: 2.533 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

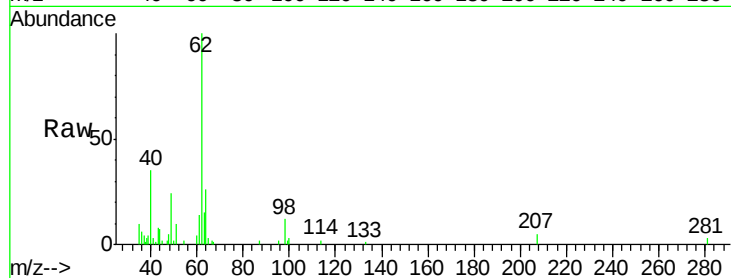
MDL-MDL-SOIL-03-QT1-2019

Tgt Ion: 62 Resp: 9121

Ion Ratio Lower Upper

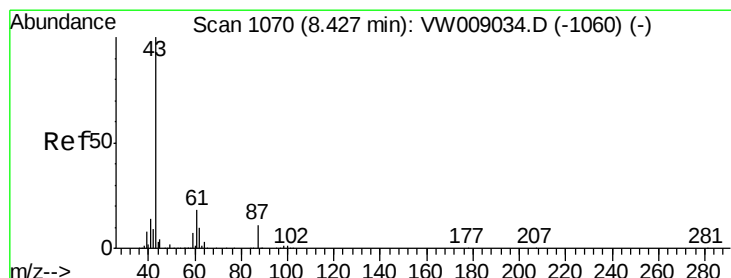
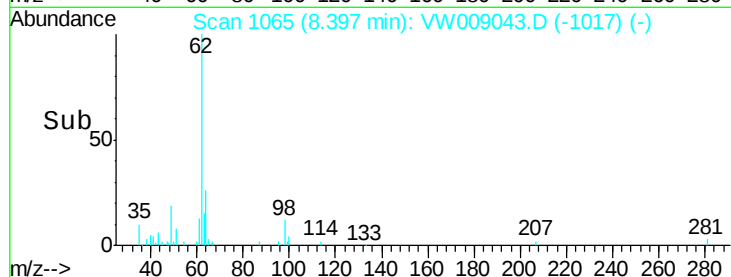
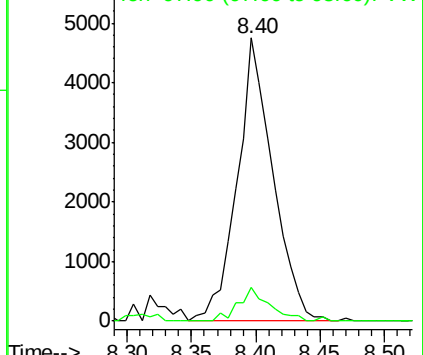
62 100

98 10.3 0.0 17.6



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 97.90 (97.60 to 98.60): VW



#43

Isopropyl Acetate

Concen: 2.495 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

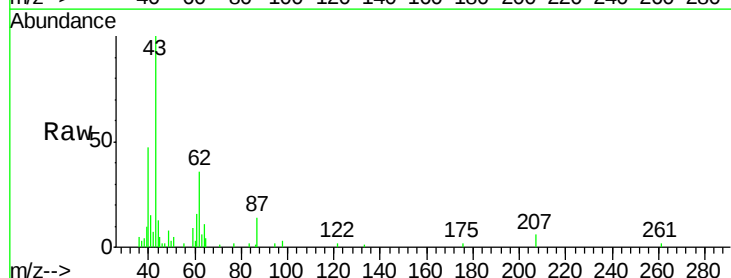
Tgt Ion: 43 Resp: 9119

Ion Ratio Lower Upper

43 100

61 29.8 22.8 34.2

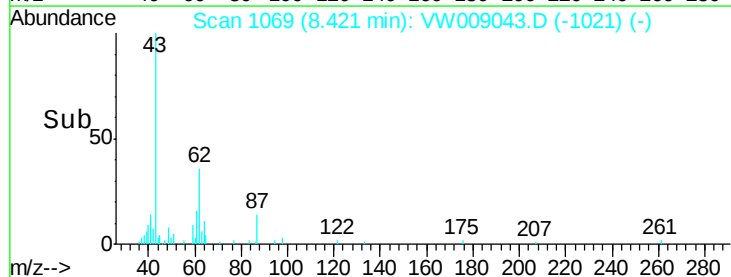
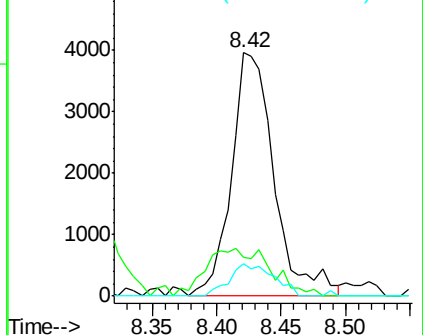
87 13.7 9.4 14.2

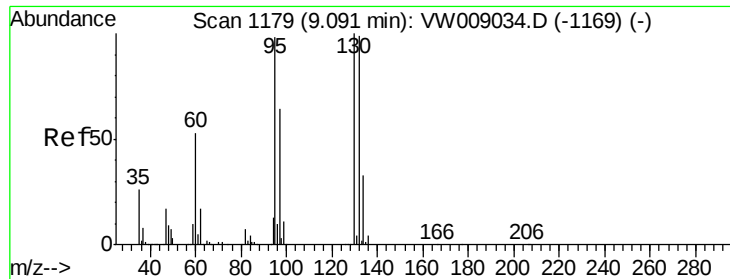


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 87.00 (86.70 to 87.70): VW





#44

Trichloroethene

Concen: 2.331 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

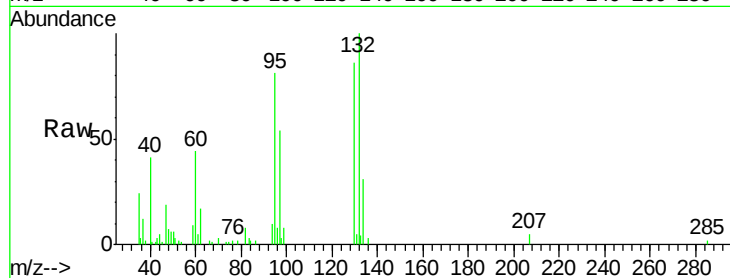
MDL-MDL-SOIL-03-QT1-2019

Tgt Ion:130 Resp: 7287

Ion Ratio Lower Upper

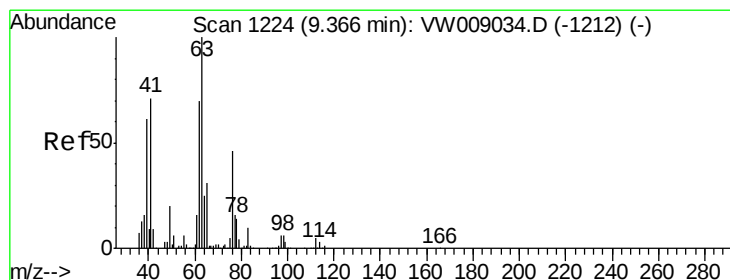
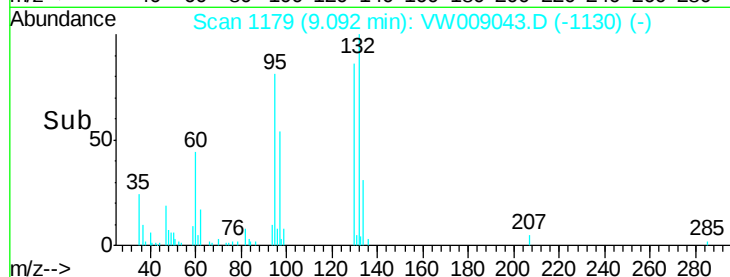
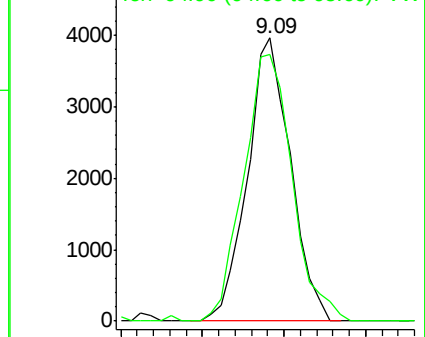
130 100

95 94.2 0.0 197.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW



#45

1,2-Dichloropropane

Concen: 2.433 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. 0.01 min

Lab File: VW009043.D

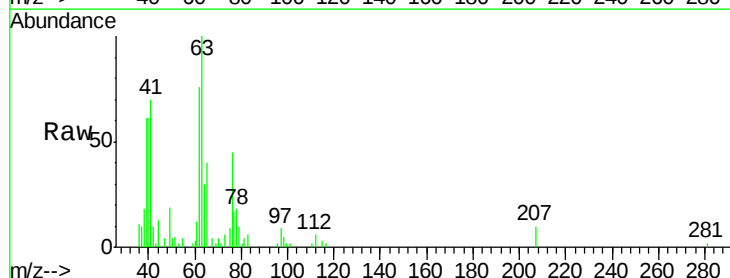
Acq: 07 Mar 2019 16:48

Tgt Ion: 63 Resp: 6795

Ion Ratio Lower Upper

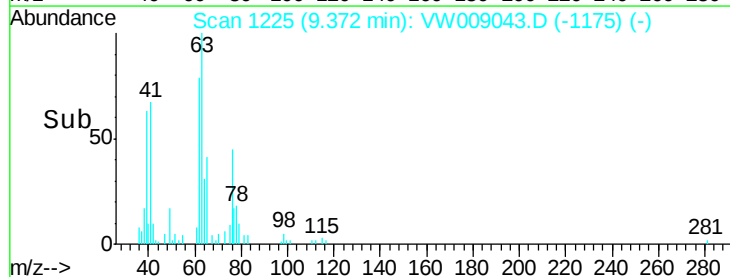
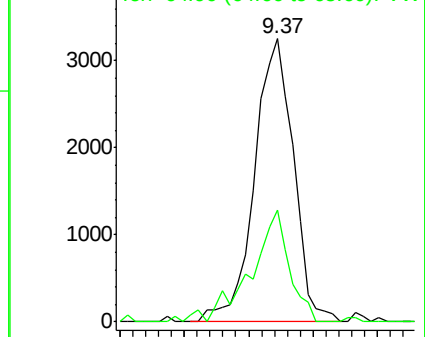
63 100

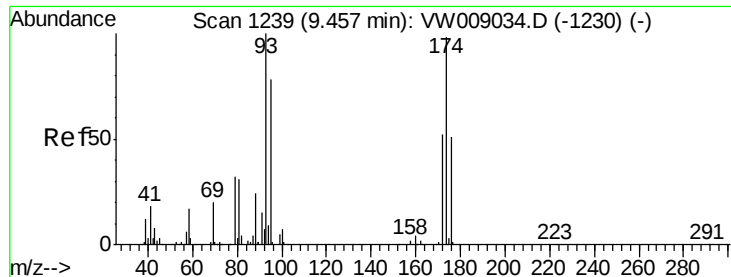
65 39.7 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW





#46

Dibromomethane

Concen: 2.371 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. -0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

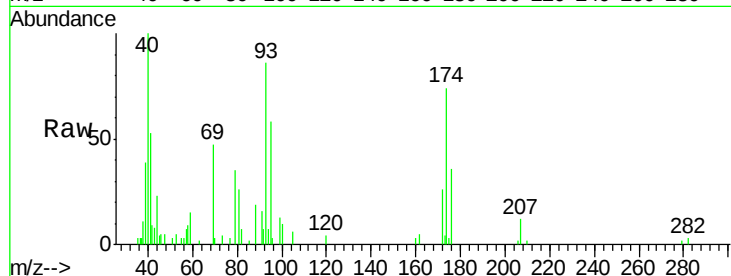
Tgt Ion: 93 Resp: 3617

Ion Ratio Lower Upper

93 100

95 83.2 65.0 97.6

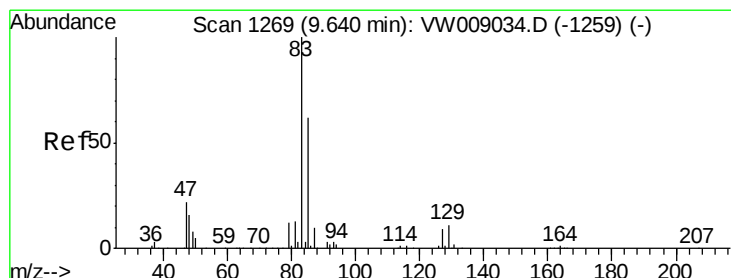
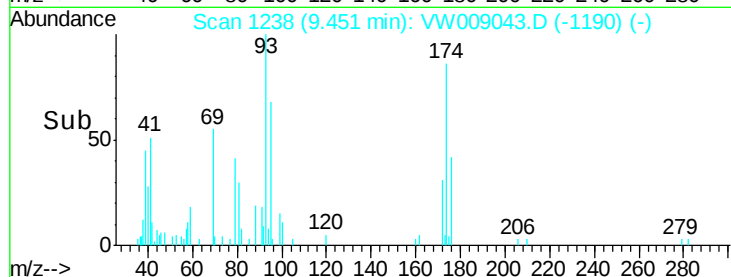
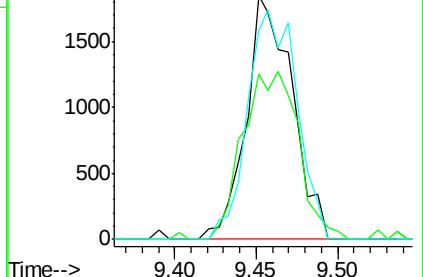
174 101.4 81.8 122.6



Abundance Ion 92.80 (92.50 to 93.50): VW

Ion 94.80 (94.50 to 95.50): VW

Ion 173.70 (173.40 to 174.40): V



#47

Bromodichloromethane

Concen: 2.304 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

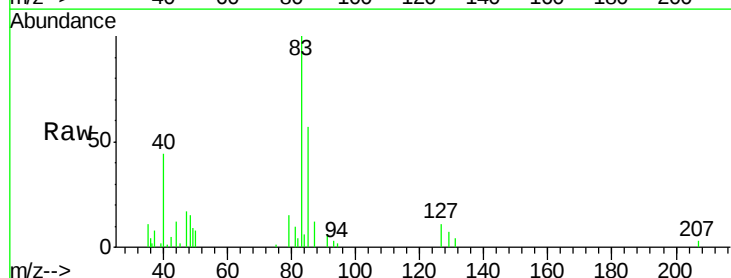
Tgt Ion: 83 Resp: 8895

Ion Ratio Lower Upper

83 100

85 56.9 49.9 74.9

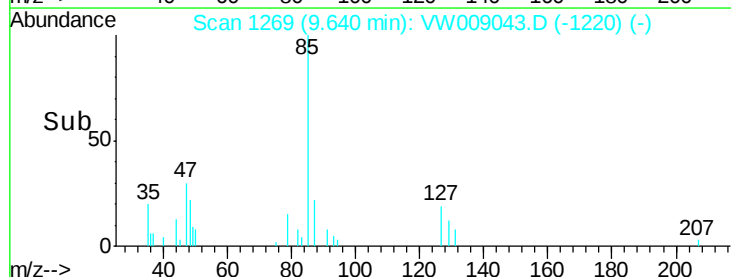
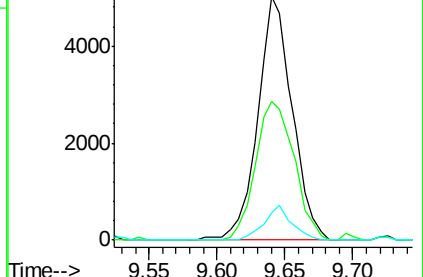
127 11.0 7.1 10.7#

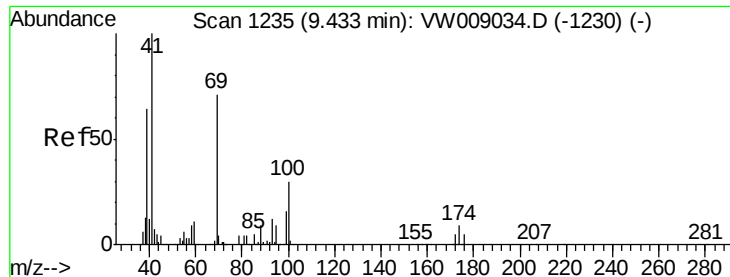


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 126.80 (126.50 to 127.50): V

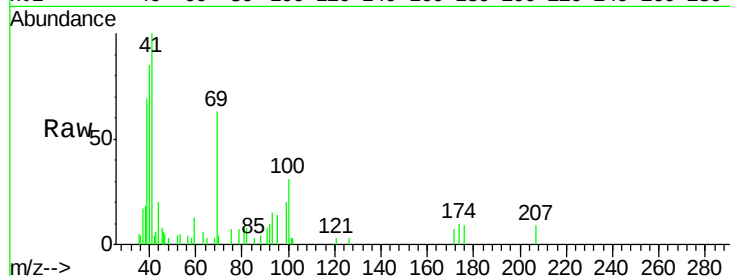




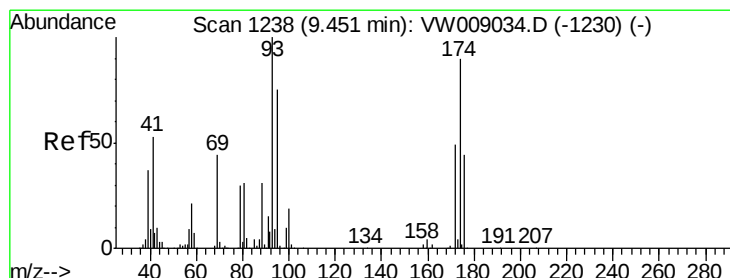
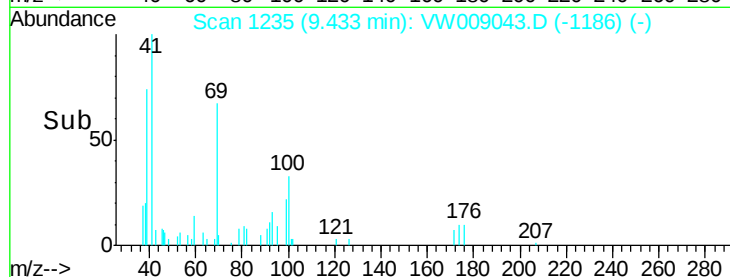
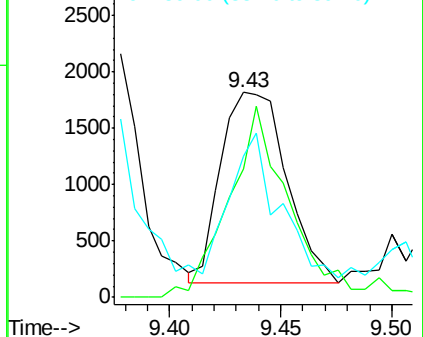
#48
Methyl methacrylate
Concen: 2.036 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

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

Tgt Ion: 41 Resp: 3464
Ion Ratio Lower Upper
41 100
69 90.8 59.1 88.7#
39 56.4 48.9 73.3

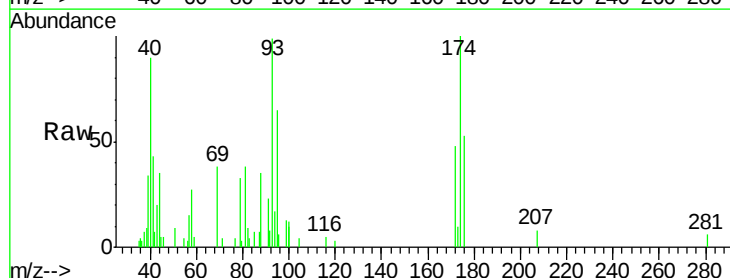


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 39.00 (38.70 to 39.70): VW

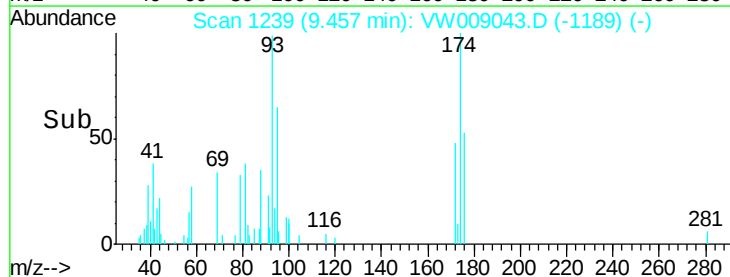
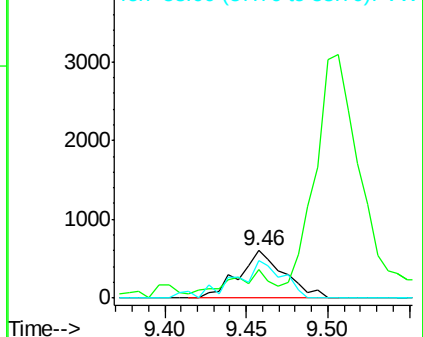


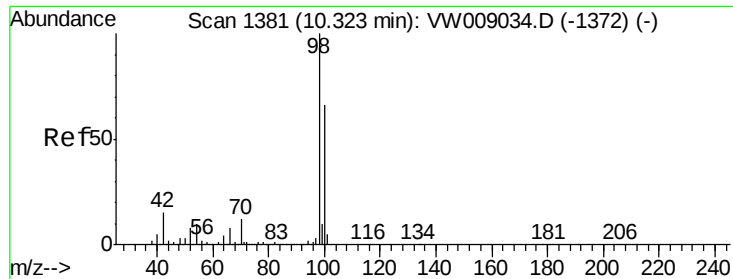
#49
1,4-Dioxane
Concen: 53.518 ug/l
RT: 9.46 min Scan# 1239
Delta R.T. 0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion: 88 Resp: 1169
Ion Ratio Lower Upper
88 100
43 39.0 29.0 43.4
58 77.8 59.2 88.8



Abundance Ion 88.00 (87.70 to 88.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 58.00 (57.70 to 58.70): VW





#50

Toluene-d8

Concen: 55.959 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

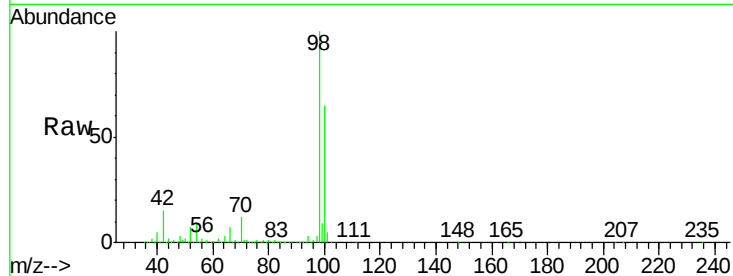
MDL-MDL-SOIL-03-QT1-2019

Tgt Ion: 98 Resp: 552872

Ion Ratio Lower Upper

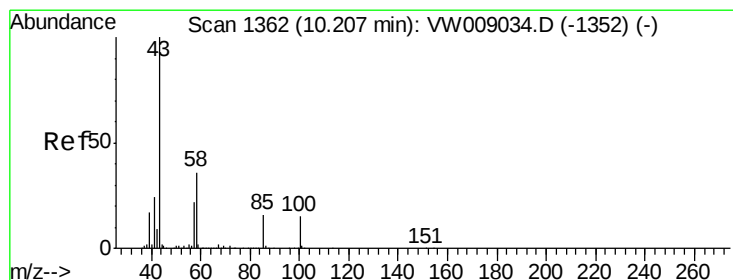
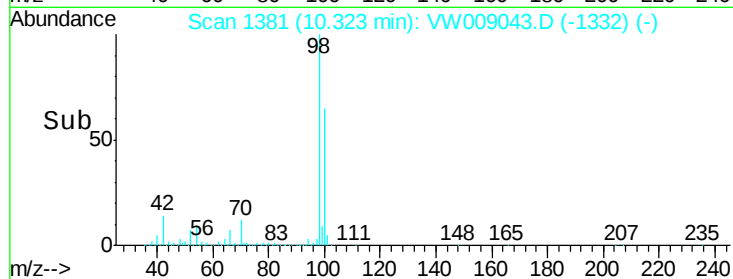
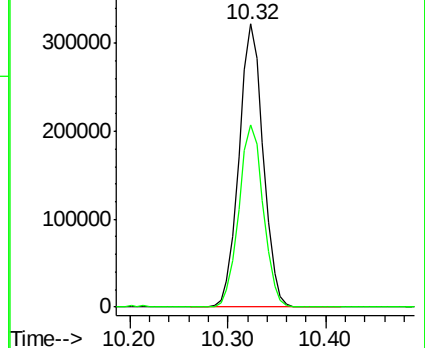
98 100

100 64.9 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#51

4-Methyl-2-Pentanone

Concen: 11.312 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.01 min

Lab File: VW009043.D

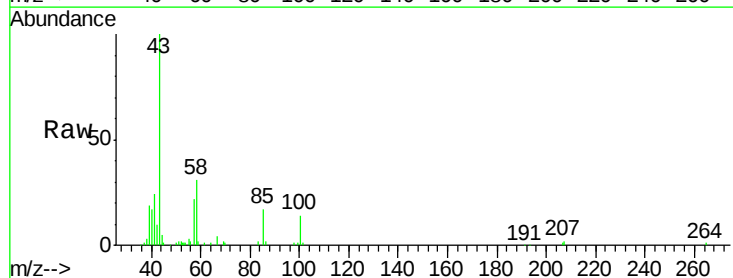
Acq: 07 Mar 2019 16:48

Tgt Ion: 43 Resp: 20987

Ion Ratio Lower Upper

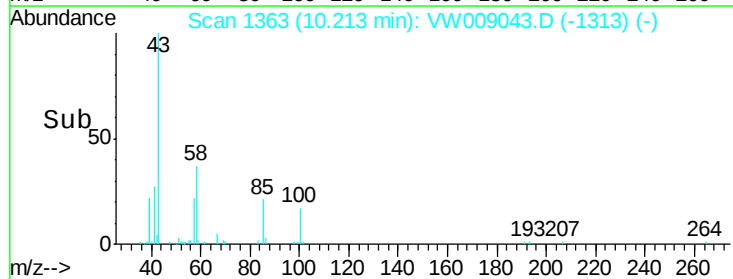
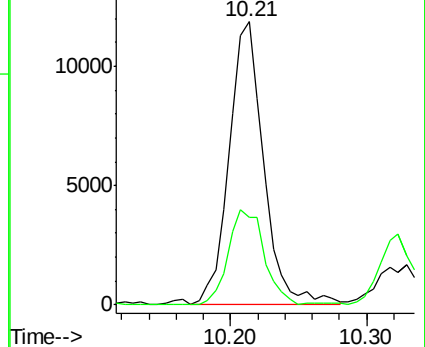
43 100

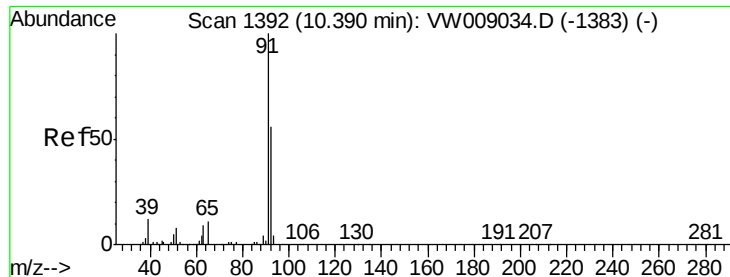
58 34.9 28.8 43.2



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#52

Toluene

Concen: 2.438 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

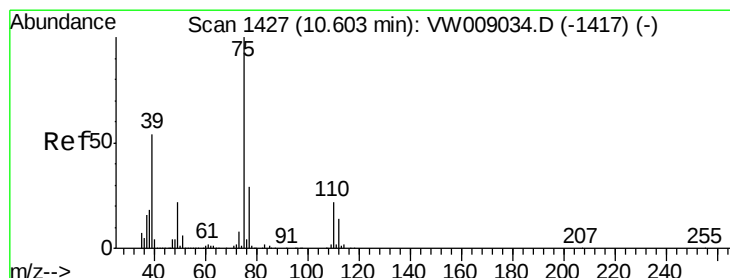
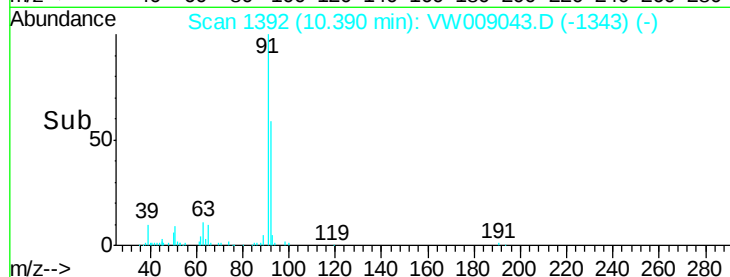
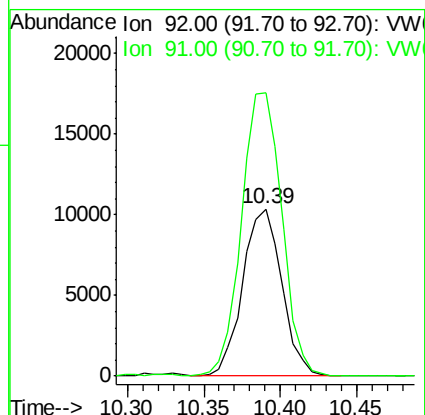
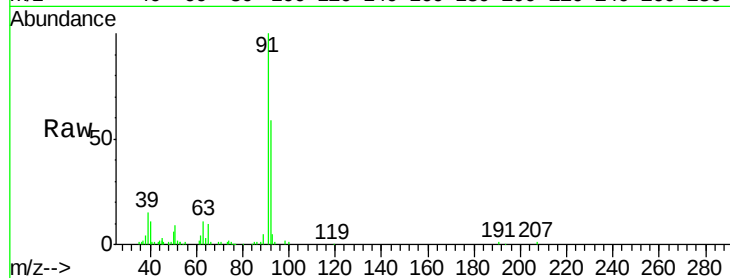
MDL-MDL-SOIL-03-QT1-2019

Tgt Ion: 92 Resp: 18439

Ion Ratio Lower Upper

92 100

91 174.6 139.9 209.9



#53

t-1,3-Dichloropropene

Concen: 2.231 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. 0.01 min

Lab File: VW009043.D

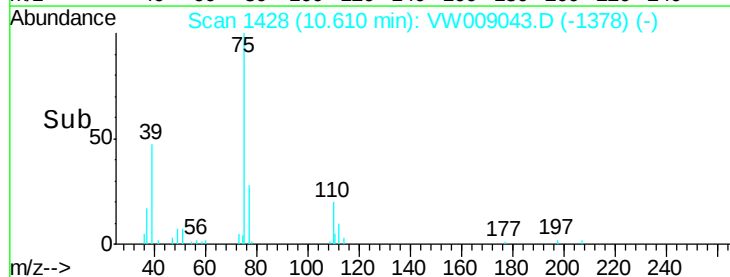
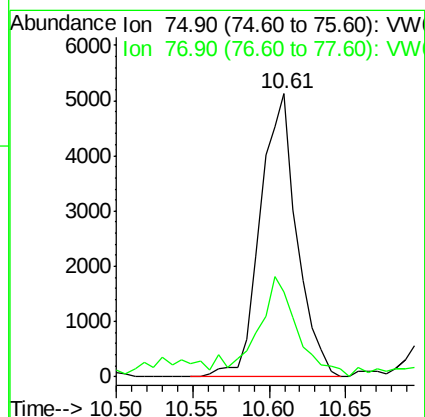
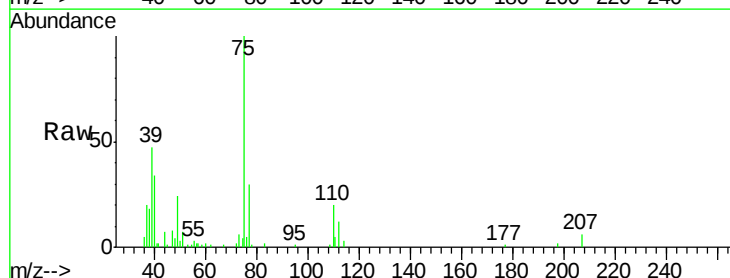
Acq: 07 Mar 2019 16:48

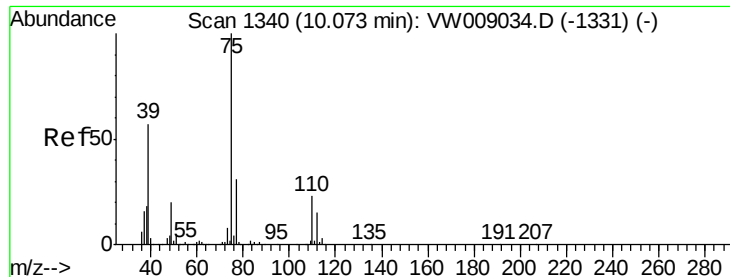
Tgt Ion: 75 Resp: 8522

Ion Ratio Lower Upper

75 100

77 27.2 23.6 35.4





#54

cis-1,3-Dichloropropene

Concen: 2.312 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

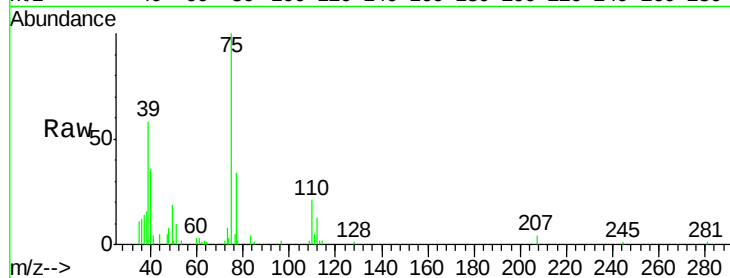
Tgt Ion: 75 Resp: 10145

Ion Ratio Lower Upper

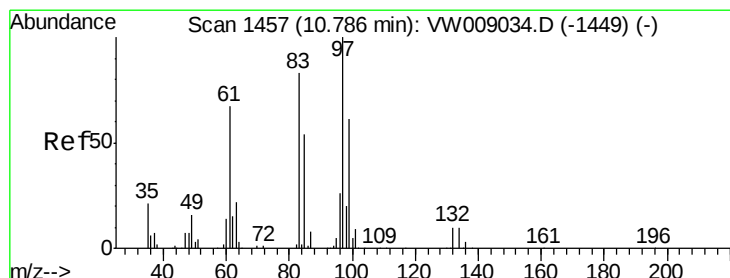
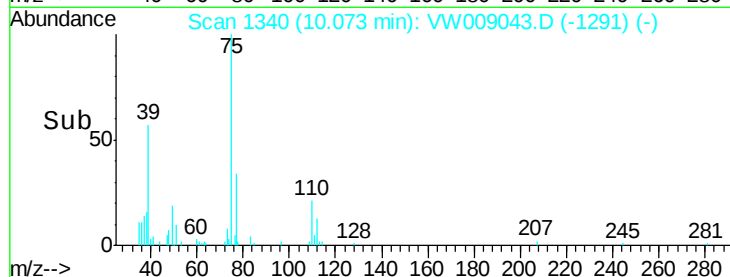
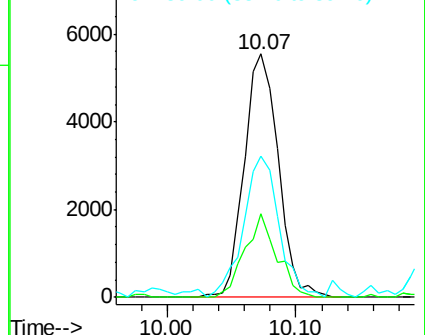
75 100

77 34.2 24.6 36.8

39 55.7 45.9 68.9



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 76.90 (76.60 to 77.60): VW
Ion 39.00 (38.70 to 39.70): VW



#55

1,1,2-Trichloroethane

Concen: 2.697 ug/l

RT: 10.79 min Scan# 1457

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Tgt Ion: 97 Resp: 5575

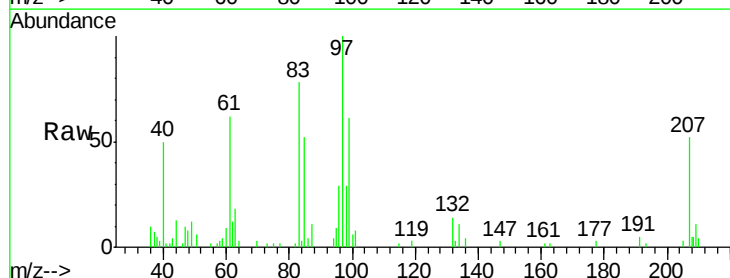
Ion Ratio Lower Upper

97 100

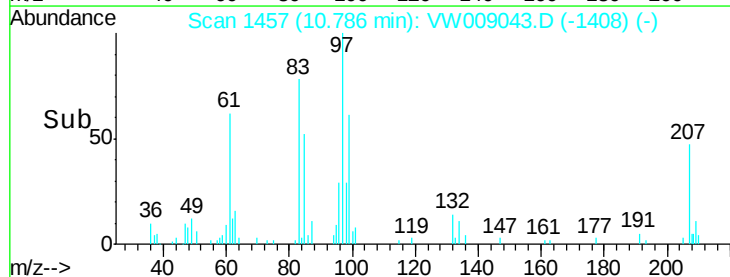
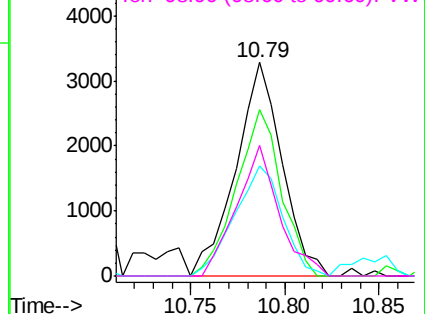
83 78.1 66.2 99.2

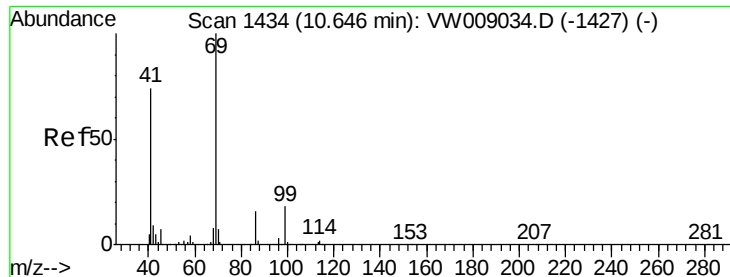
85 51.7 43.6 65.4

99 61.4 49.0 73.4



Abundance Ion 96.90 (96.60 to 97.60): VW
Ion 82.90 (82.60 to 83.60): VW
Ion 84.90 (84.60 to 85.60): VW
Ion 98.90 (98.60 to 99.60): VW





#56

Ethyl methacrylate

Concen: 2.228 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

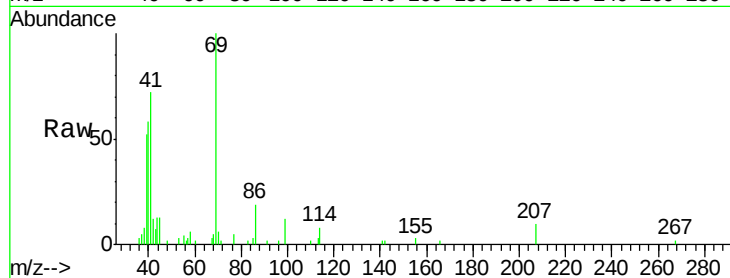
Tgt Ion: 69 Resp: 5716

Ion Ratio Lower Upper

69 100

41 76.4 59.4 89.2

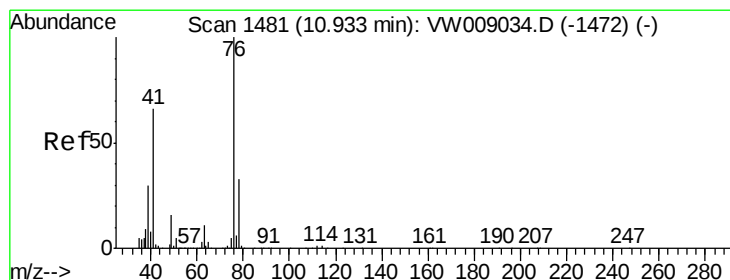
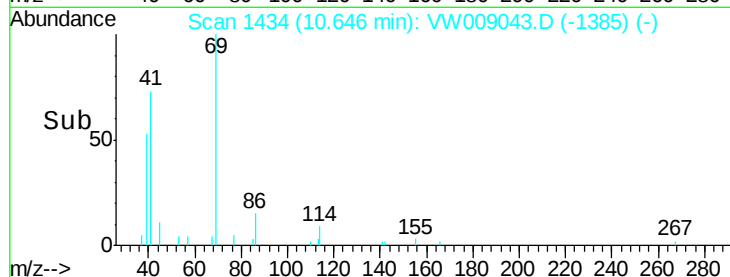
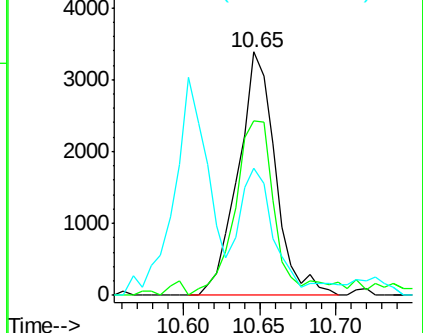
39 48.4 38.5 57.7



Abundance Ion 69.00 (68.70 to 69.70): VW

Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW



#57

1,3-Dichloropropane

Concen: 2.419 ug/l

RT: 10.94 min Scan# 1482

Delta R.T. 0.01 min

Lab File: VW009043.D

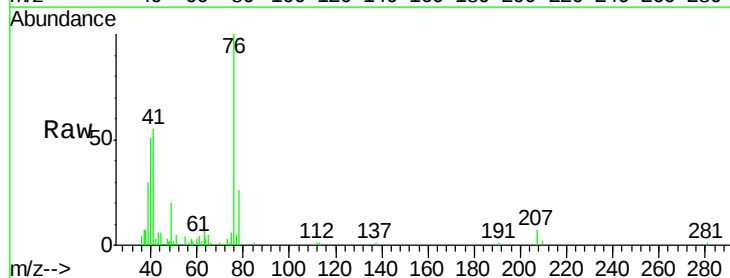
Acq: 07 Mar 2019 16:48

Tgt Ion: 76 Resp: 8861

Ion Ratio Lower Upper

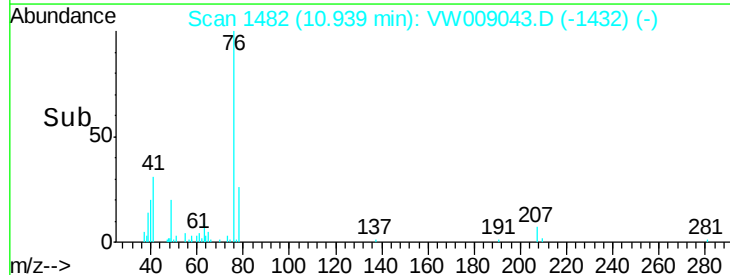
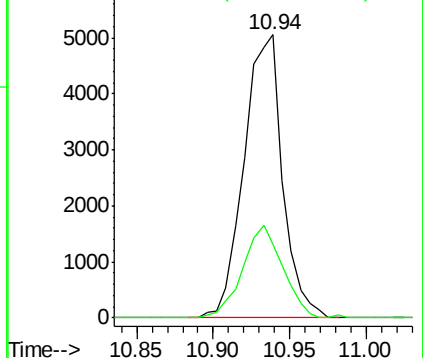
76 100

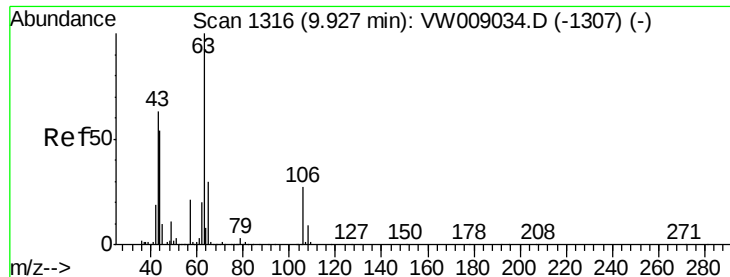
78 33.9 25.7 38.5



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW





#58

2-Chloroethyl Vinyl ether

Concen: 10.918 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. -0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

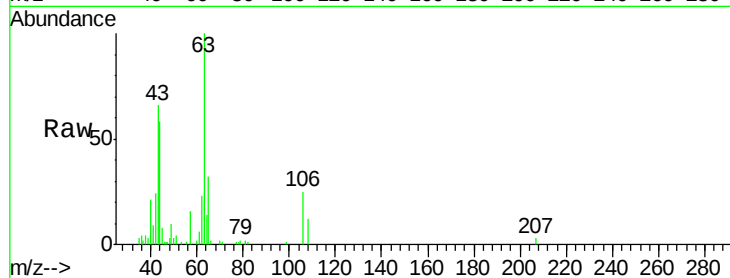
MDL-MDL-SOIL-03-QT1-2019

Tgt Ion: 63 Resp: 14523

Ion Ratio Lower Upper

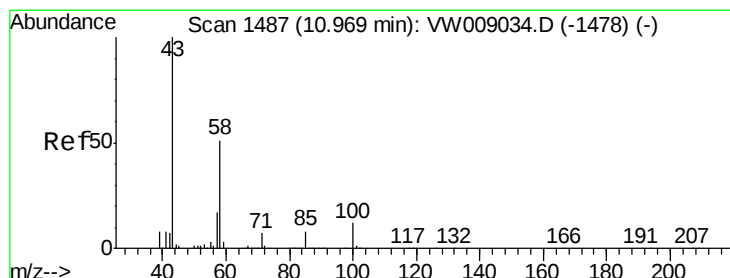
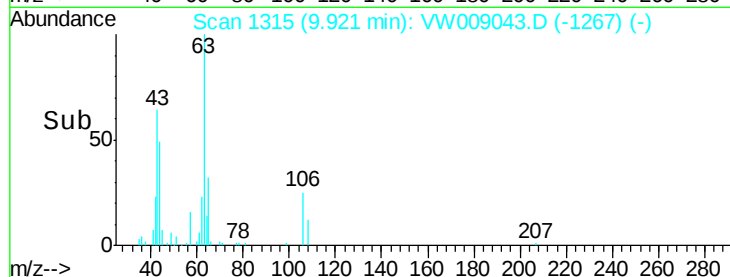
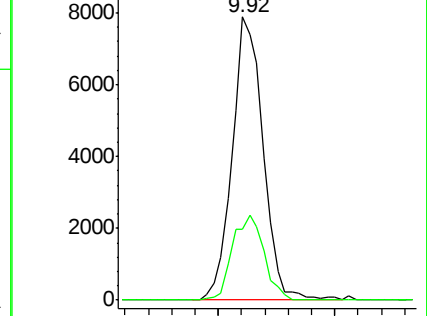
63 100

106 30.7 23.0 34.6



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 105.90 (105.60 to 106.60): V



#59

2-Hexanone

Concen: 11.182 ug/l

RT: 10.97 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VW009043.D

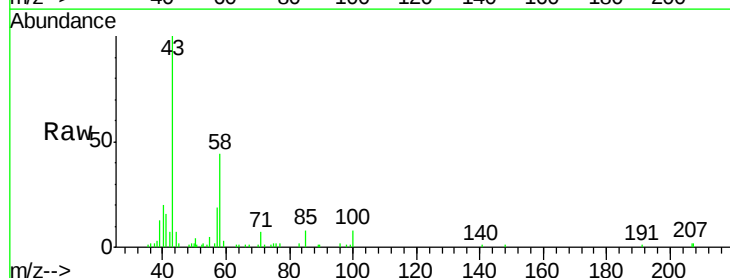
Acq: 07 Mar 2019 16:48

Tgt Ion: 43 Resp: 14587

Ion Ratio Lower Upper

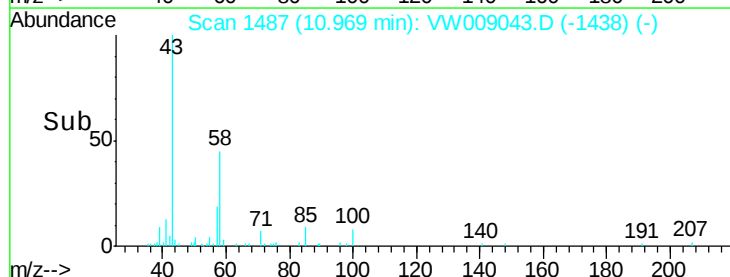
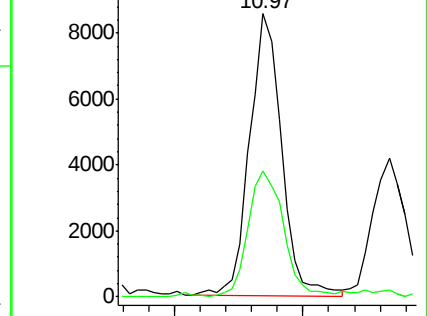
43 100

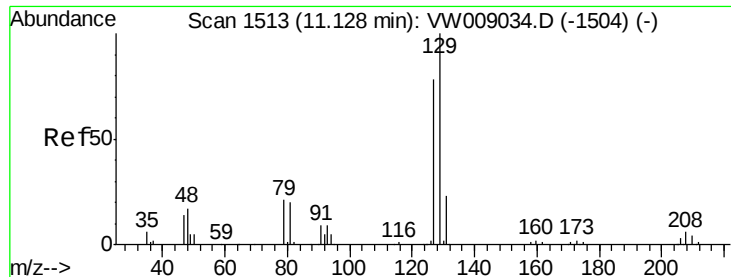
58 49.8 25.3 75.9



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

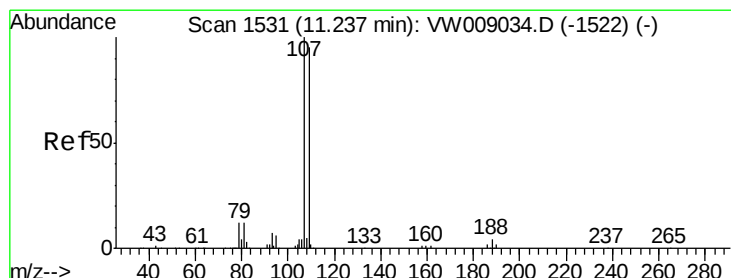
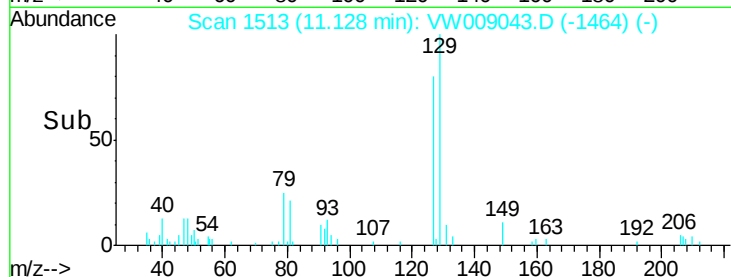
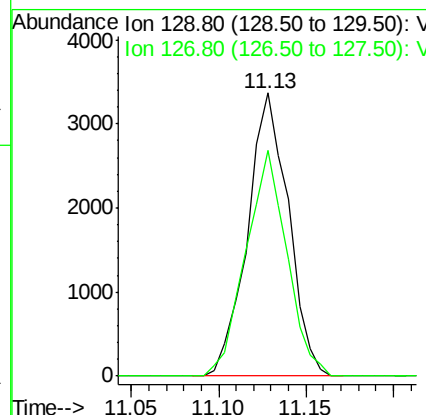
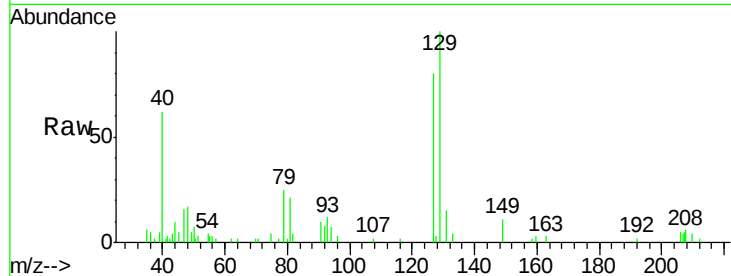




#60
Dibromochloromethane
Concen: 2.133 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

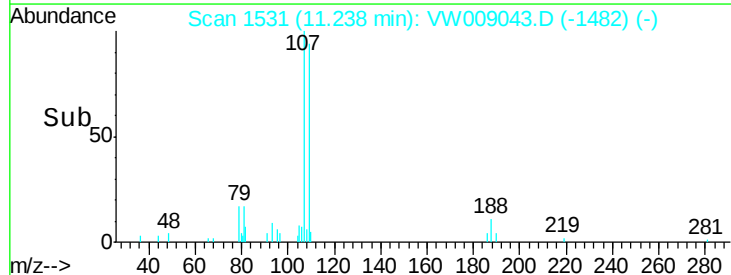
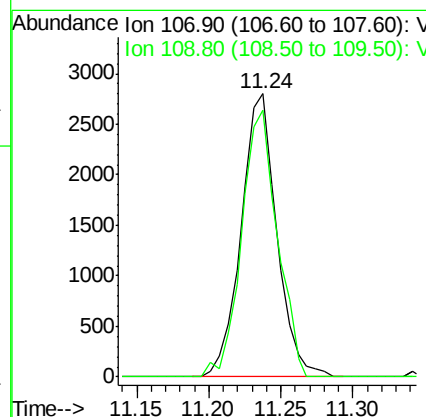
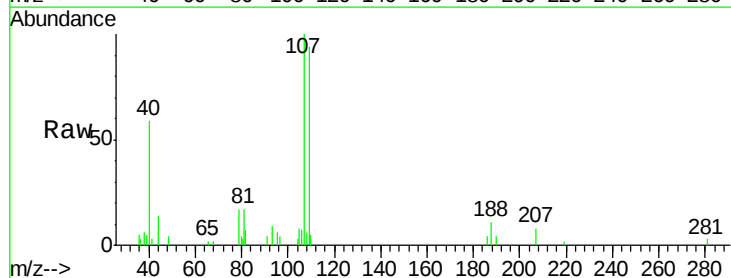
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

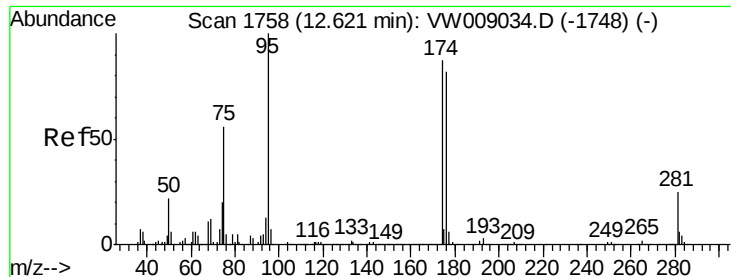
Tgt Ion:129 Resp: 5458
Ion Ratio Lower Upper
129 100
127 80.3 38.4 115.1



#61
1,2-Dibromoethane
Concen: 2.366 ug/l
RT: 11.24 min Scan# 1531
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion:107 Resp: 4795
Ion Ratio Lower Upper
107 100
109 94.4 74.7 112.1

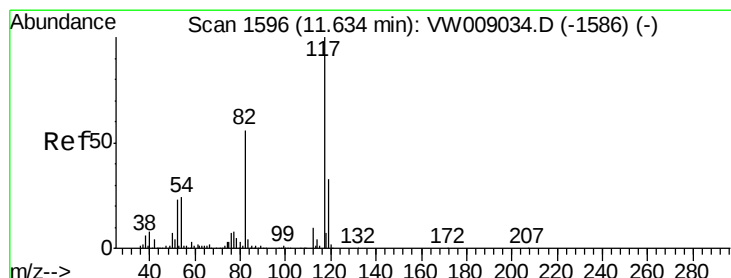
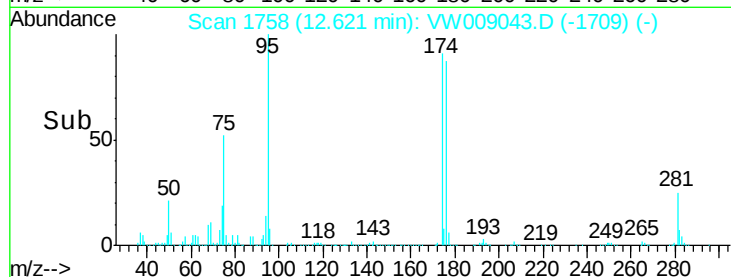
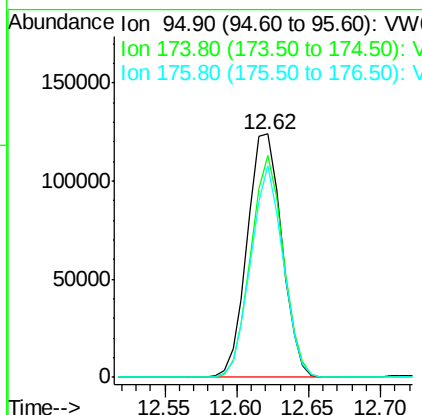
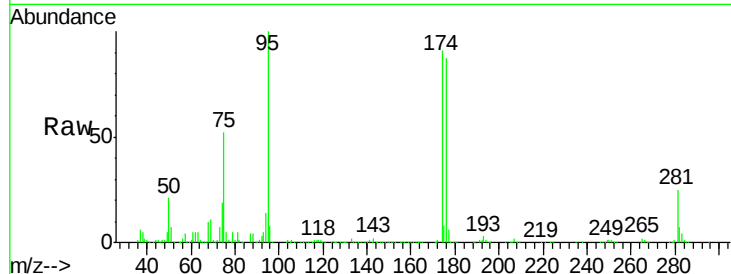




#62
4-Bromofluorobenzene
Concen: 52.967 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

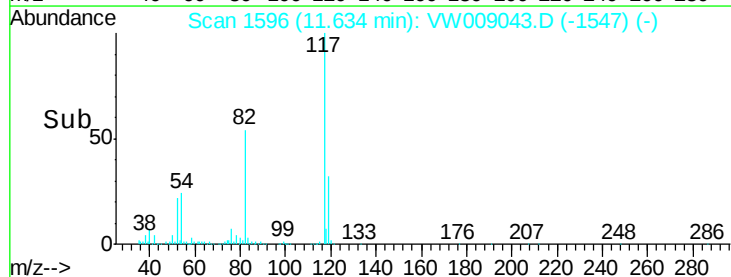
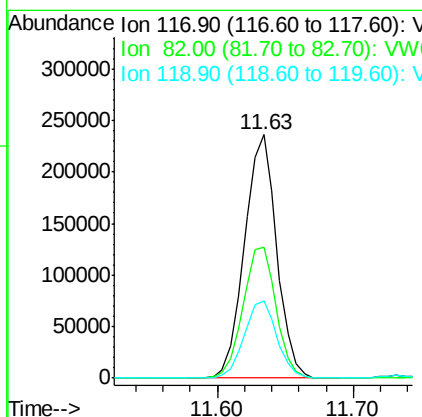
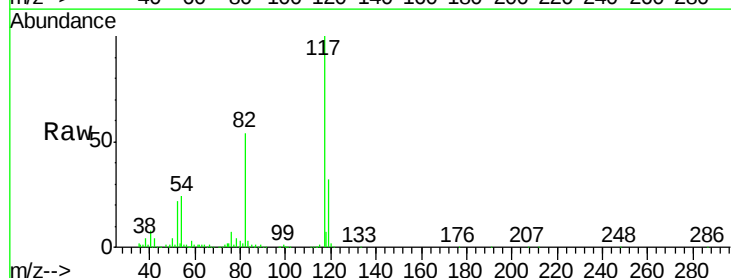
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

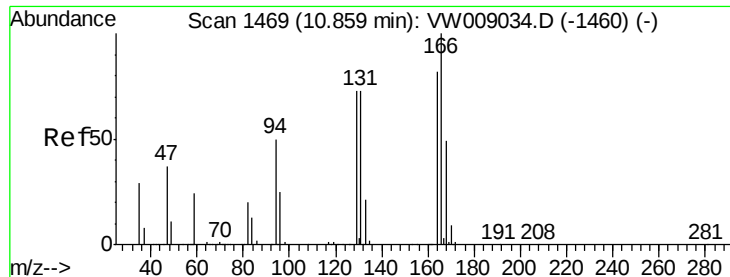
Tgt Ion: 95 Resp: 206007
Ion Ratio Lower Upper
95 100
174 85.7 0.0 167.0
176 81.1 0.0 159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion: 117 Resp: 390706
Ion Ratio Lower Upper
117 100
82 54.0 45.0 67.6
119 31.7 26.6 39.8





#64

Tetrachloroethene

Concen: 2.692 ug/l

RT: 10.87 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tgt Ion:164 Resp: 7584

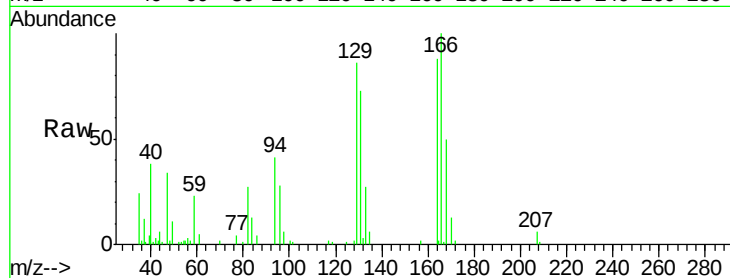
Ion Ratio Lower Upper

164 100

166 113.4 97.8 146.6

129 98.0 71.6 107.4

131 82.3 71.4 107.0

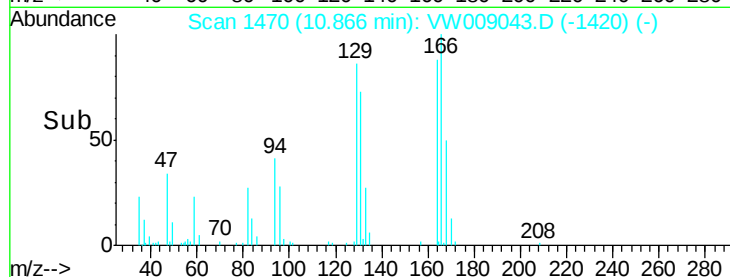


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

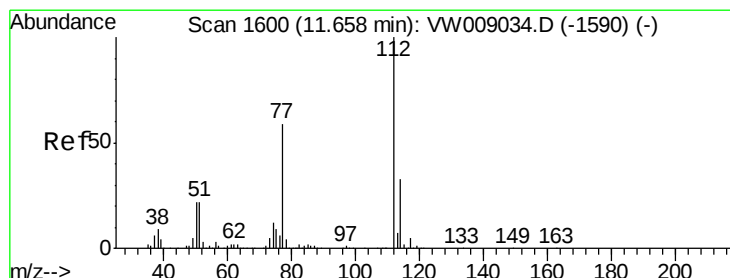
Ion 130.80 (130.50 to 131.50): V



Abundance

10.87

Time-->



#65

Chlorobenzene

Concen: 2.469 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW009043.D

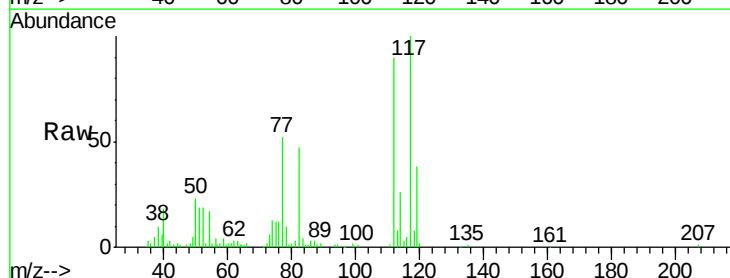
Acq: 07 Mar 2019 16:48

Tgt Ion:112 Resp: 20998

Ion Ratio Lower Upper

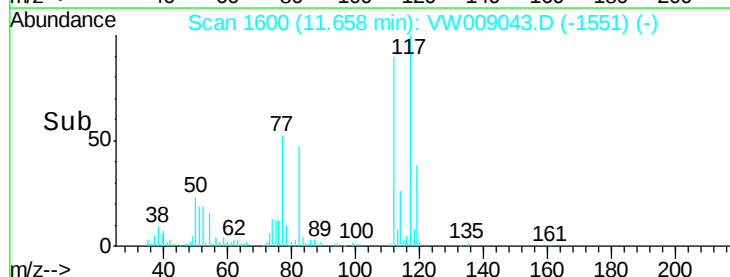
112 100

114 28.7 26.6 40.0



Abundance Ion 111.90 (111.60 to 112.60): V

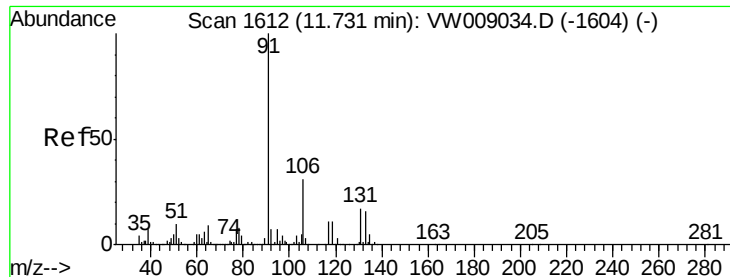
Ion 113.90 (113.60 to 114.60): V



Abundance

11.66

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 2.301 ug/l

RT: 11.73 min Scan# 1611

Delta R.T. -0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

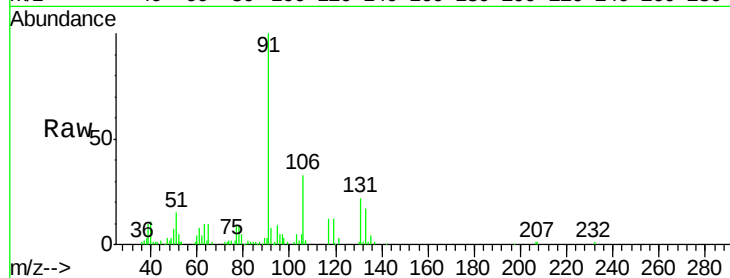
Tgt Ion:131 Resp: 6535

Ion Ratio Lower Upper

131 100

133 102.1 47.6 142.8

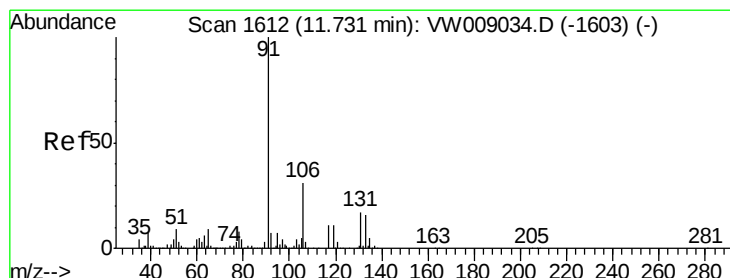
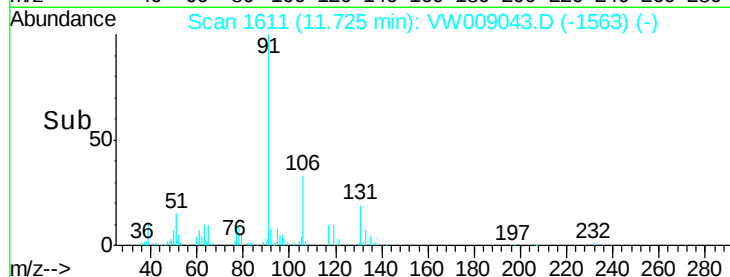
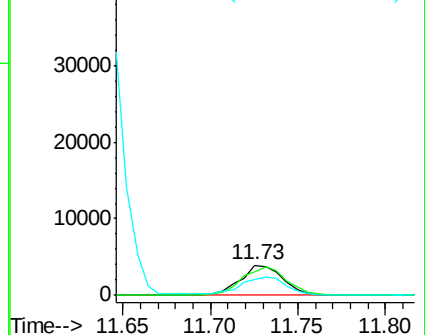
119 66.0 31.3 93.8



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V



#67

Ethyl Benzene

Concen: 2.311 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW009043.D

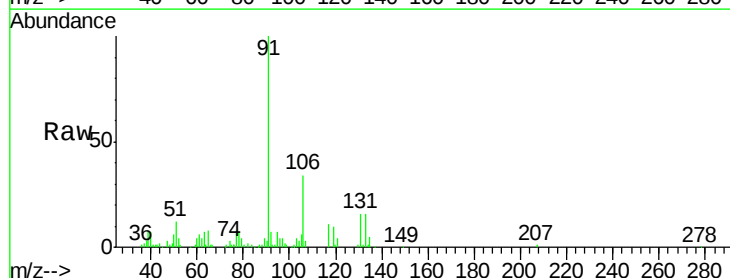
Acq: 07 Mar 2019 16:48

Tgt Ion: 91 Resp: 35498

Ion Ratio Lower Upper

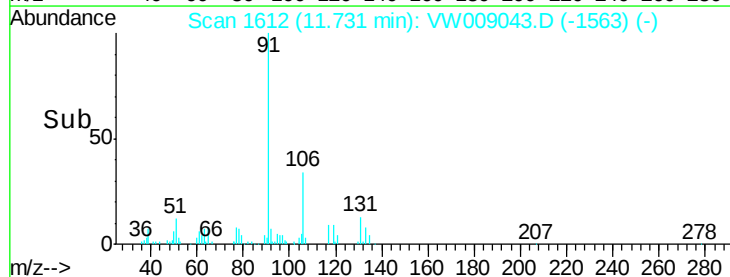
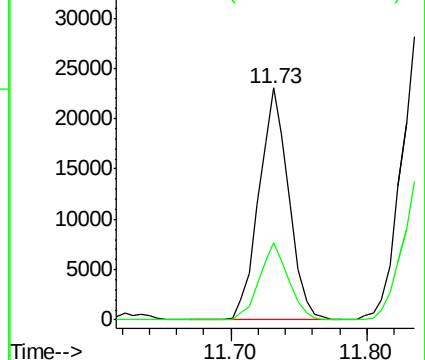
91 100

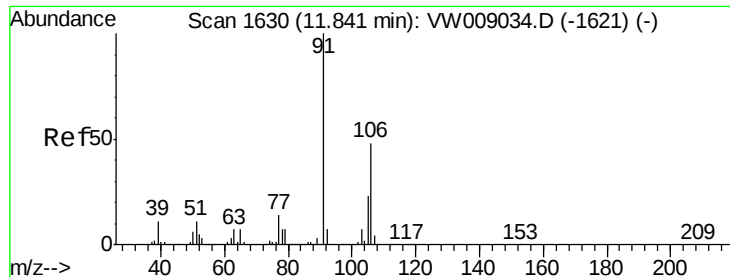
106 33.5 25.0 37.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

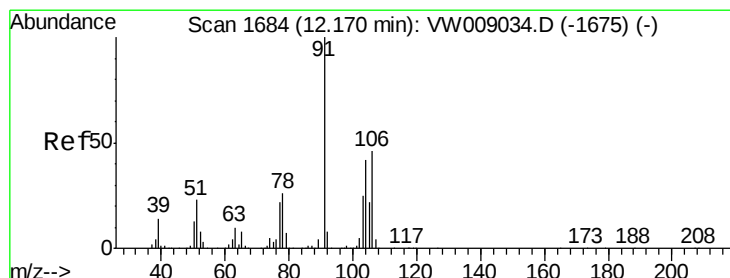
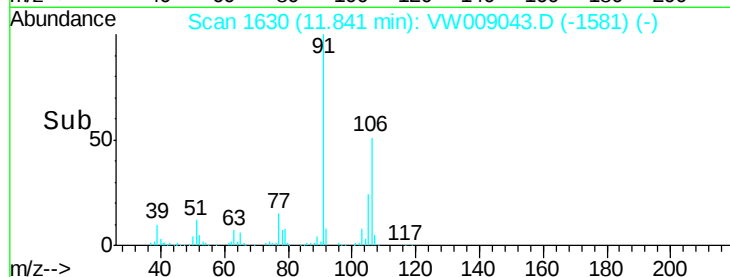
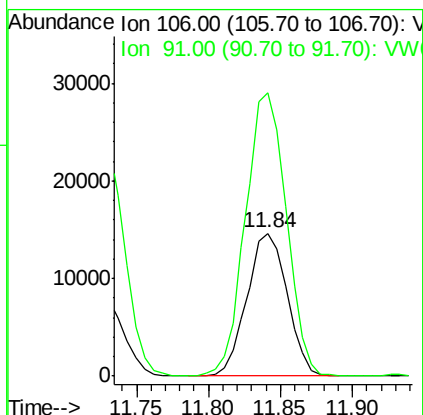
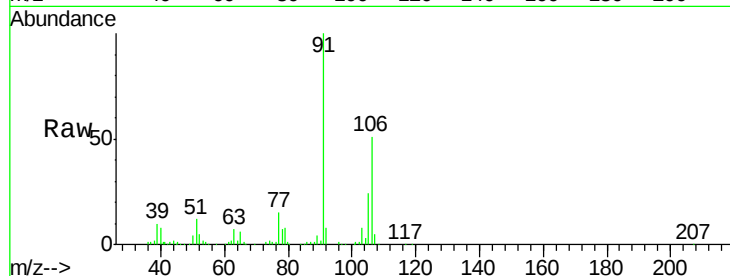




#68
m/p-Xylenes
Concen: 4.675 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

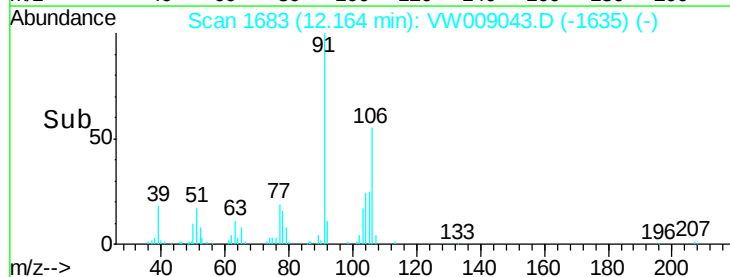
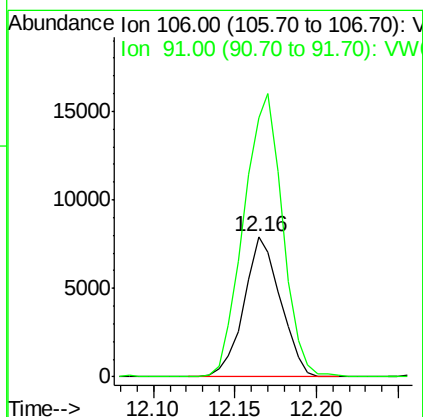
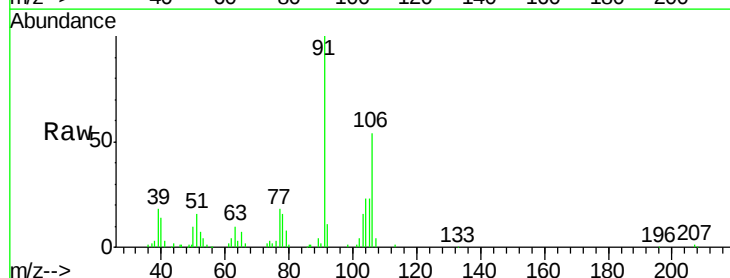
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

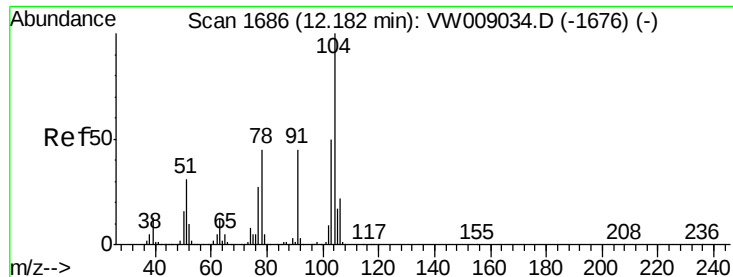
Tgt Ion:106 Resp: 28347
Ion Ratio Lower Upper
106 100
91 201.9 163.2 244.8



#69
o-Xylene
Concen: 2.184 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion:106 Resp: 12325
Ion Ratio Lower Upper
106 100
91 215.0 108.6 325.6





#70

Styrene

Concen: 2.189 ug/l

RT: 12.18 min Scan# 1686

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

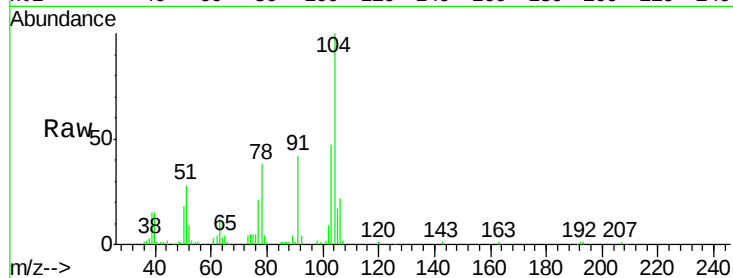
Tgt Ion:104 Resp: 19981

Ion Ratio Lower Upper

104 100

78 51.7 42.1 63.1

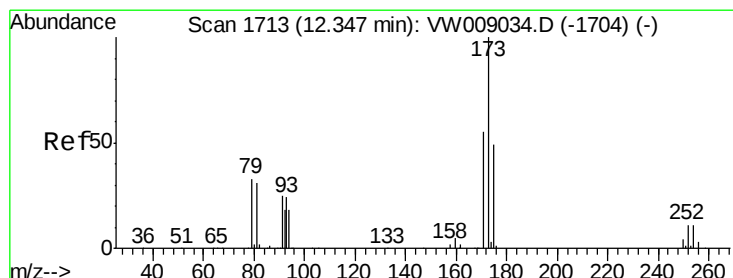
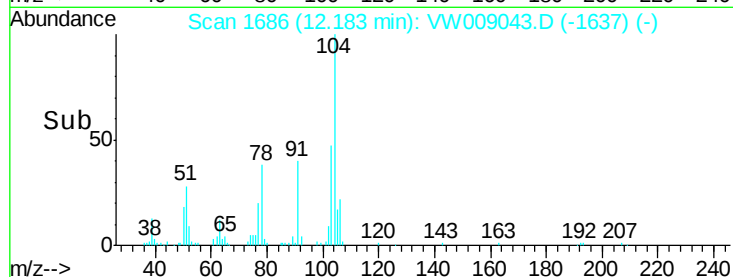
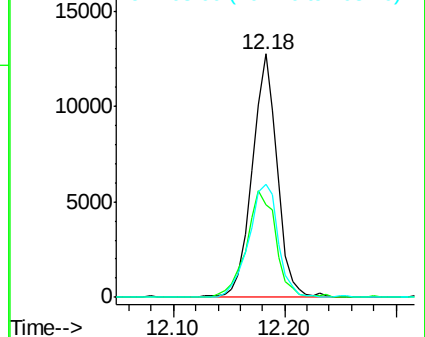
103 54.3 43.9 65.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 2.229 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

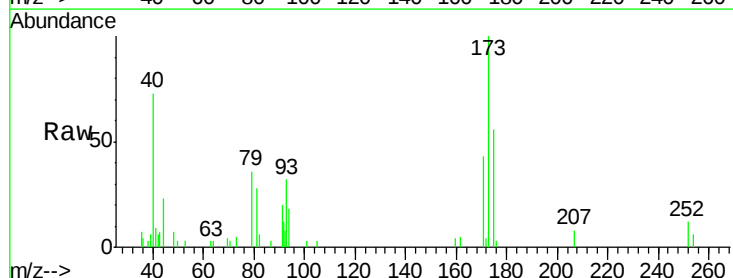
Tgt Ion:173 Resp: 3399

Ion Ratio Lower Upper

173 100

175 44.5 24.6 74.0

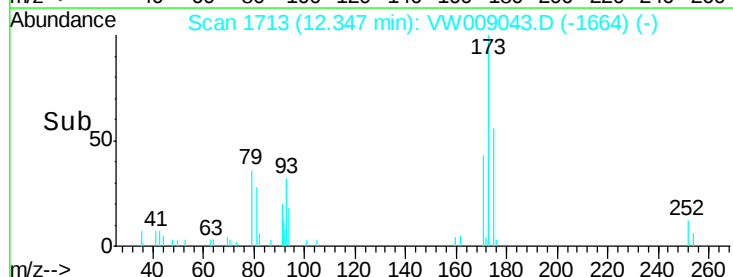
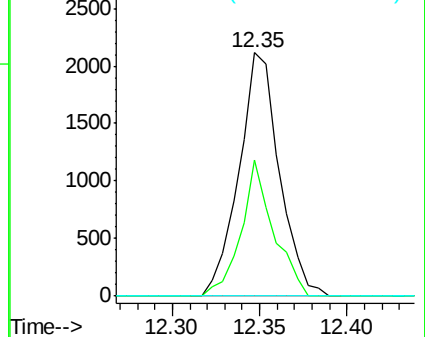
254 0.0 0.0 0.0

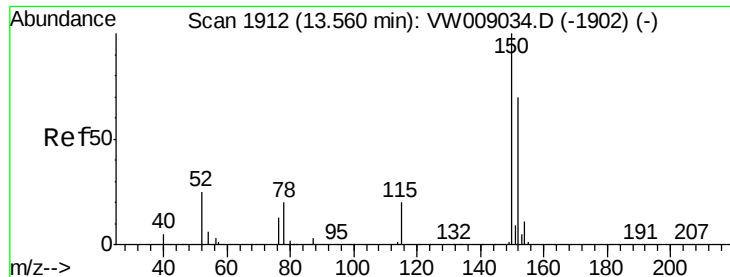


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

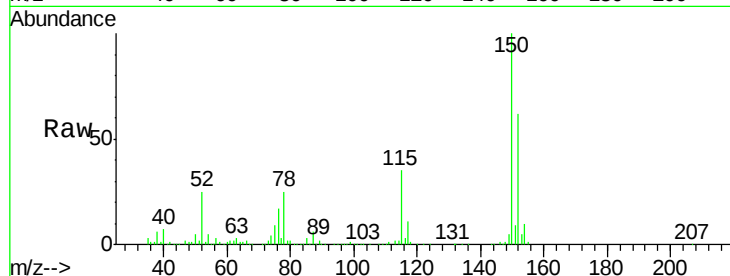
Tgt Ion:152 Resp: 211456

Ion Ratio Lower Upper

152 100

115 56.6 28.9 86.7

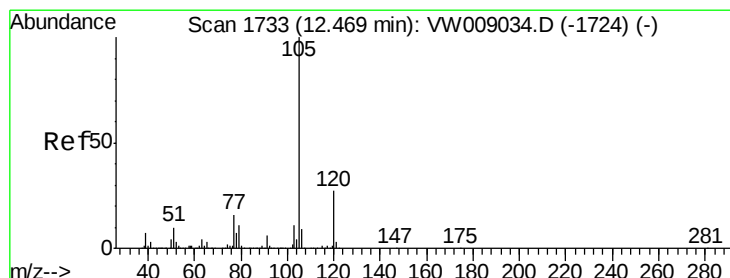
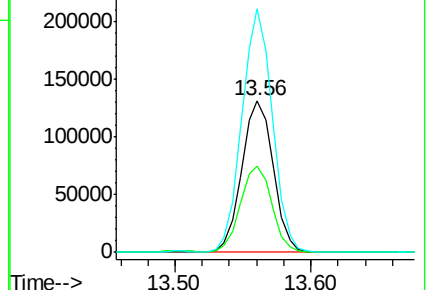
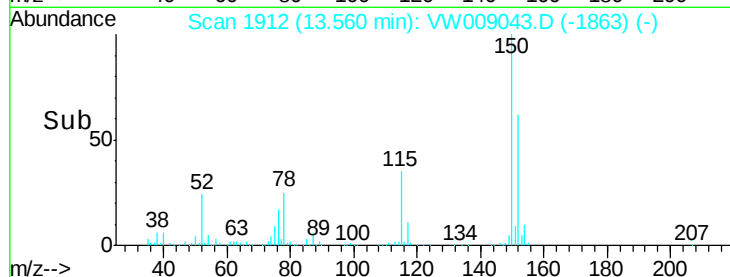
150 156.0 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: 2.272 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.01 min

Lab File: VW009043.D

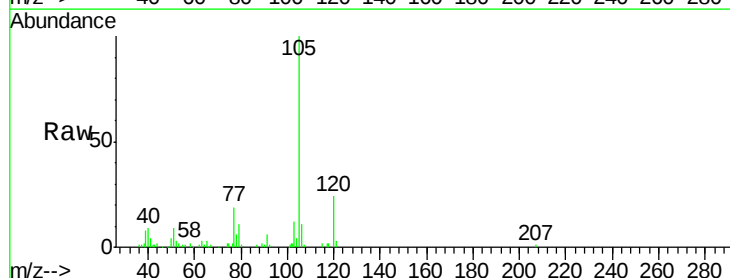
Acq: 07 Mar 2019 16:48

Tgt Ion:105 Resp: 34397

Ion Ratio Lower Upper

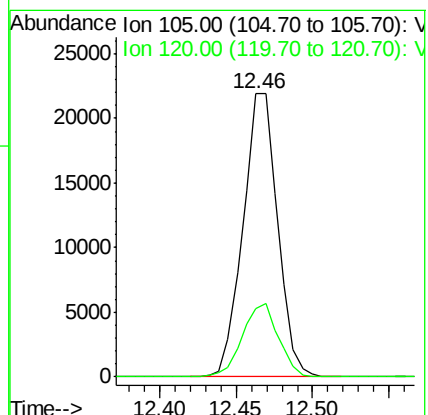
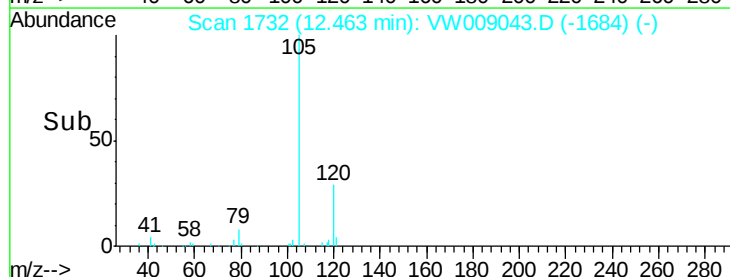
105 100

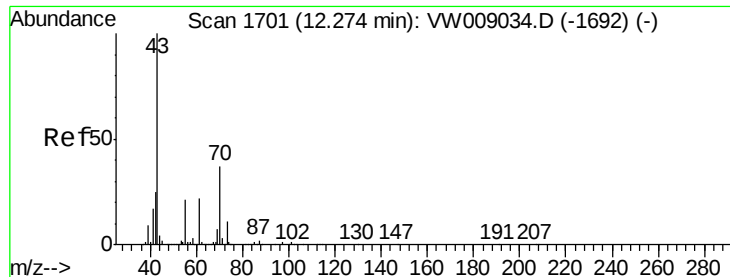
120 26.9 13.2 39.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-ethyl acetate

Concen: 1.912 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

Tgt Ion: 43 Resp: 6854

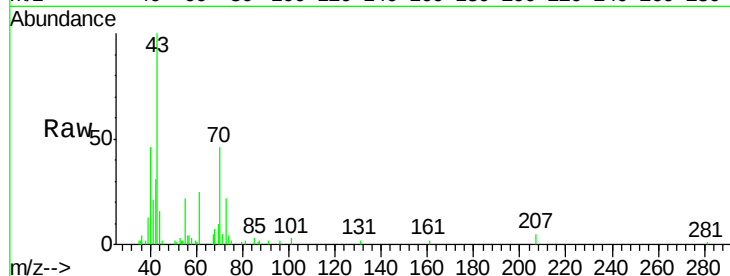
Ion Ratio Lower Upper

43 100

70 47.7 30.8 46.2#

55 27.8 17.8 26.8#

61 27.6 17.4 26.2#

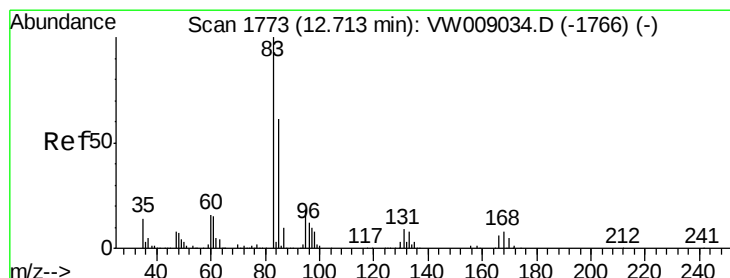
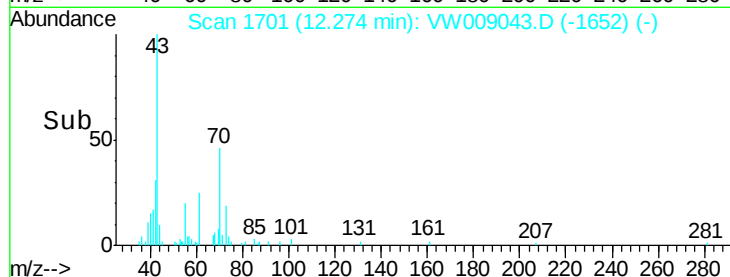
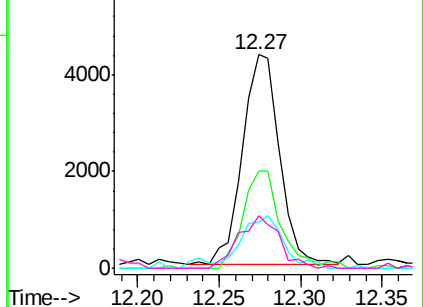


Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW



#75

1,1,2,2-Tetrachloroethane

Concen: 2.418 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

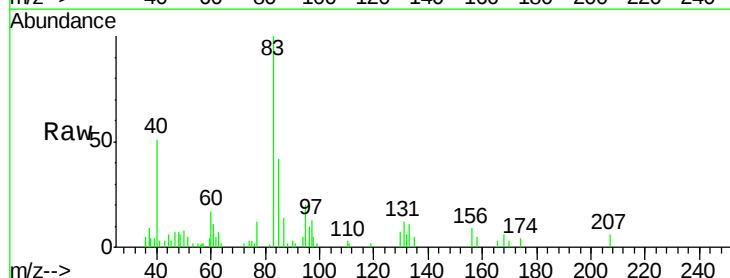
Tgt Ion: 83 Resp: 5776

Ion Ratio Lower Upper

83 100

131 12.9 5.5 16.7

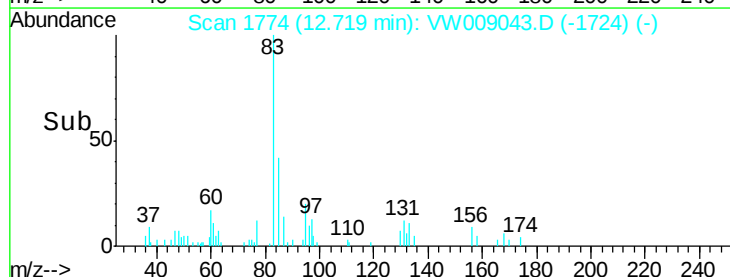
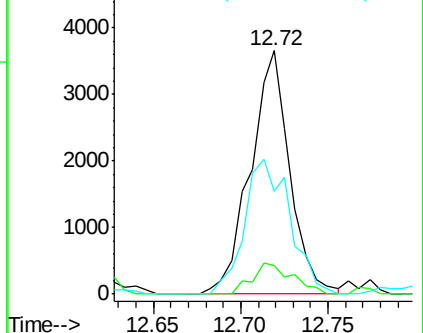
85 63.9 31.7 95.1

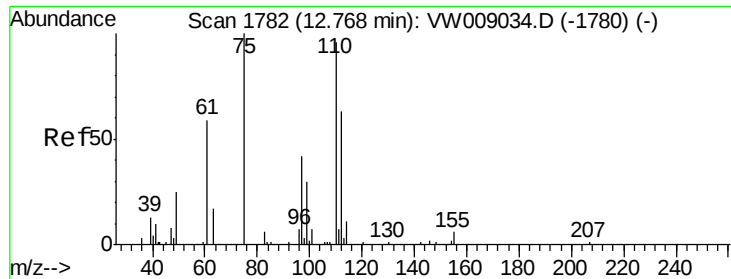


Abundance Ion 82.90 (82.60 to 83.60): VW

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VW





#76

1,2,3-Trichloropropane

Concen: 4.961 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

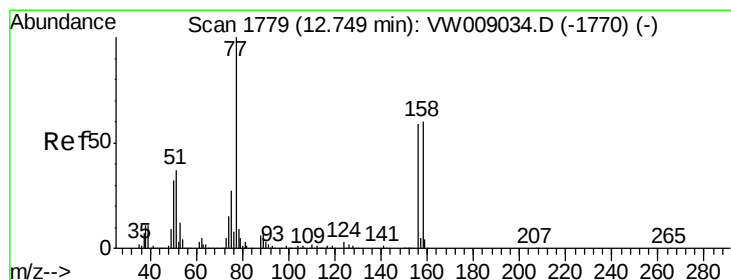
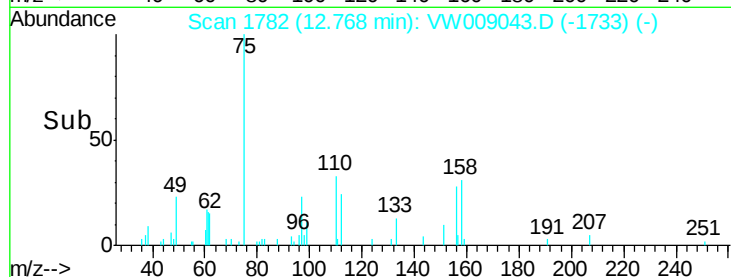
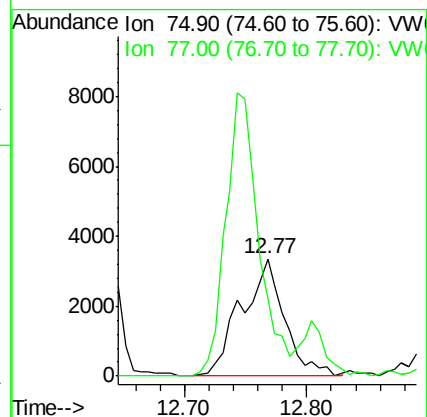
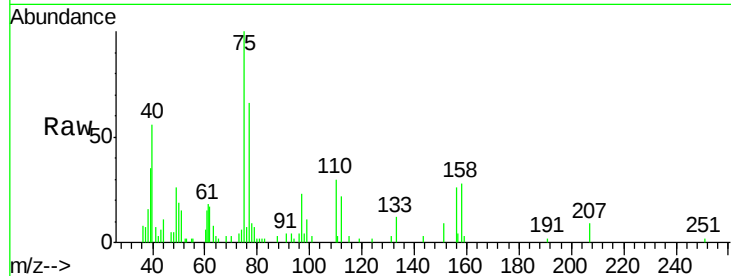
MDL-MDL-SOIL-03-QT1-2019

Tgt Ion: 75 Resp: 8288

Ion Ratio Lower Upper

75 100

77 0.0 186.7 560.0#



#77

Bromobenzene

Concen: 2.365 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

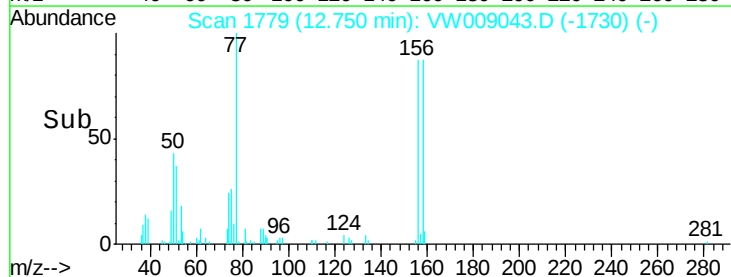
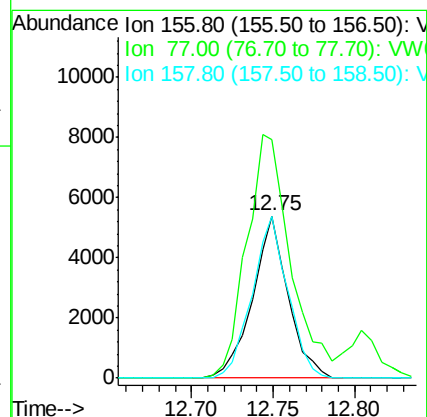
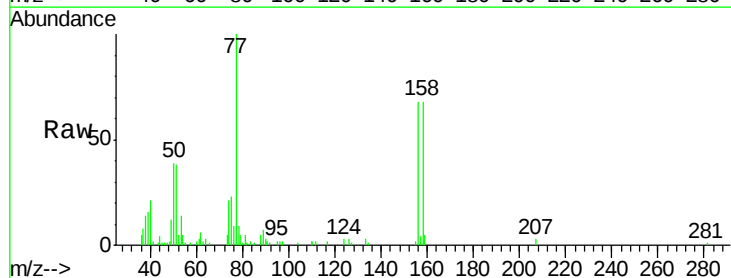
Tgt Ion: 156 Resp: 8183

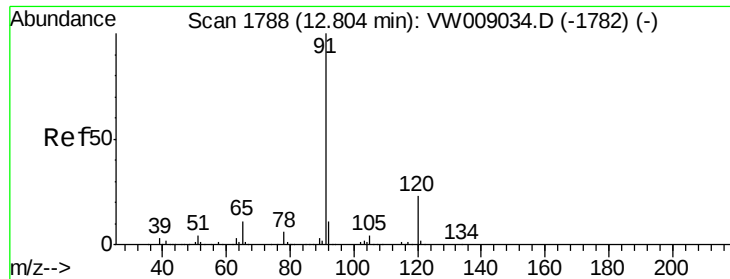
Ion Ratio Lower Upper

156 100

77 184.8 93.0 279.2

158 100.4 50.0 149.8

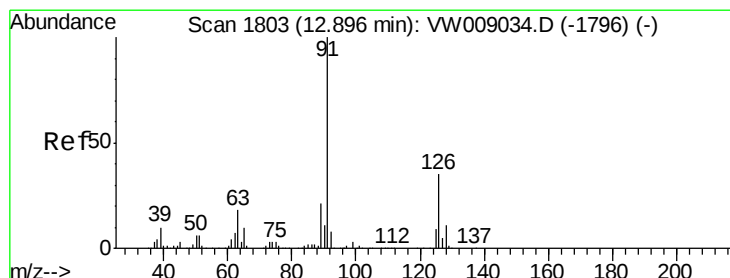
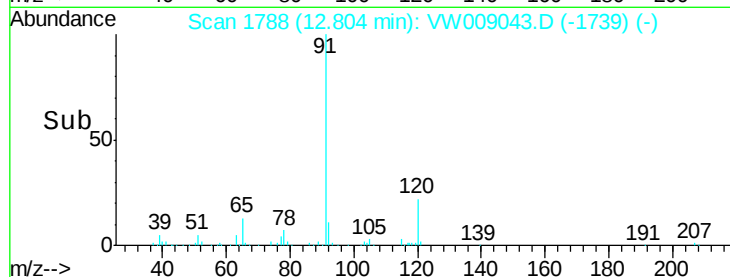
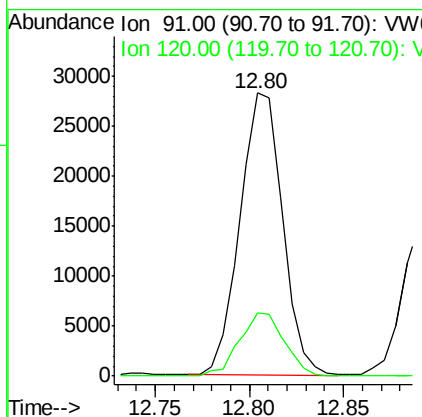
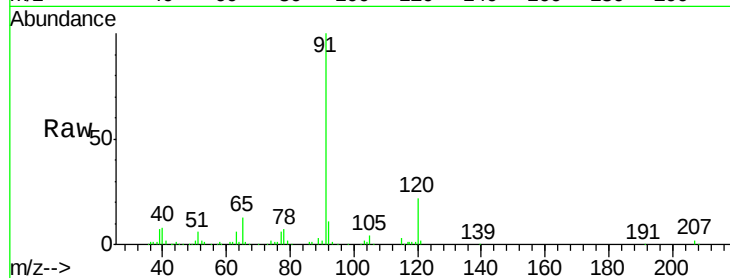




#78
n-propylbenzene
Concen: 2.372 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

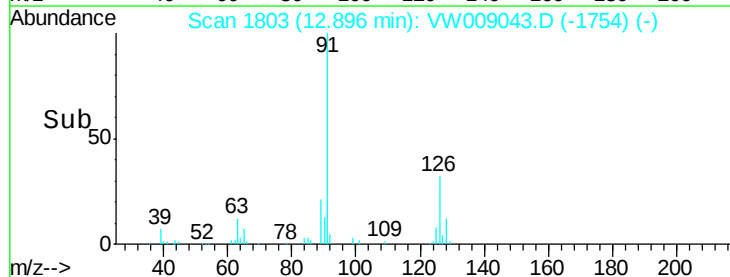
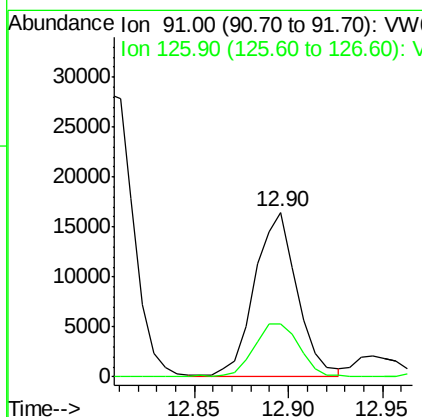
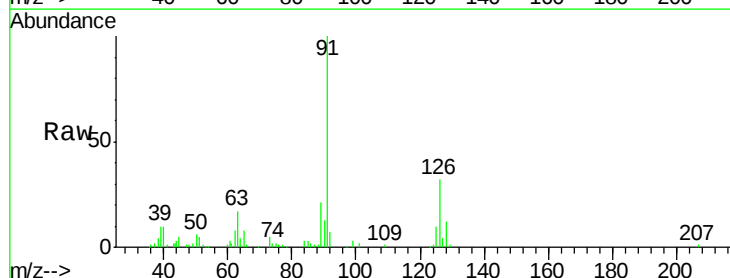
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

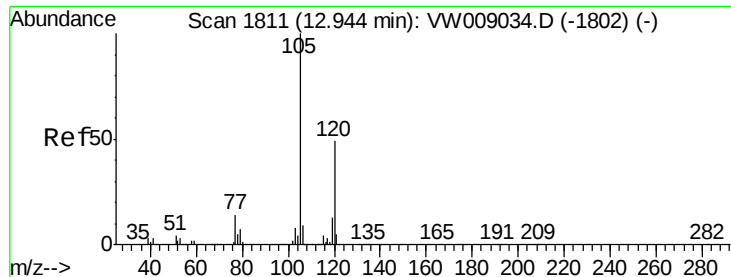
Tgt Ion: 91 Resp: 44249
Ion Ratio Lower Upper
91 100
120 23.5 11.4 34.2



#79
2-Chlorotoluene
Concen: 2.441 ug/l
RT: 12.90 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion: 91 Resp: 25576
Ion Ratio Lower Upper
91 100
126 35.2 16.8 50.4





#80

1,3,5-Trimethylbenzene

Concen: 2.286 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

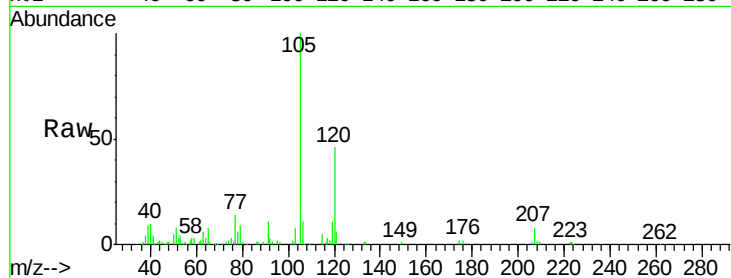
MDL-MDL-SOIL-03-QT1-2019

Tgt Ion: 105 Resp: 29834

Ion Ratio Lower Upper

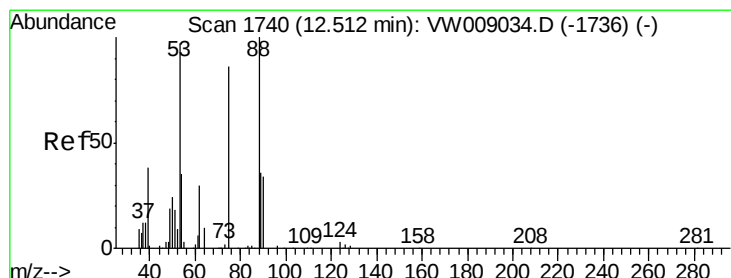
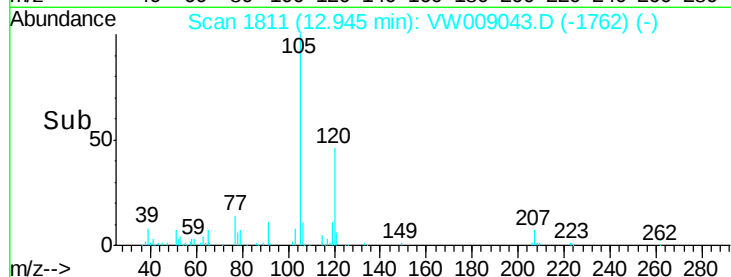
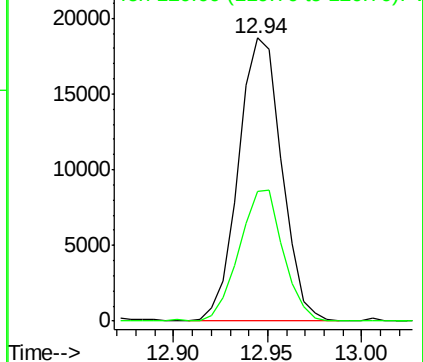
105 100

120 47.0 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 146.689 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.10 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

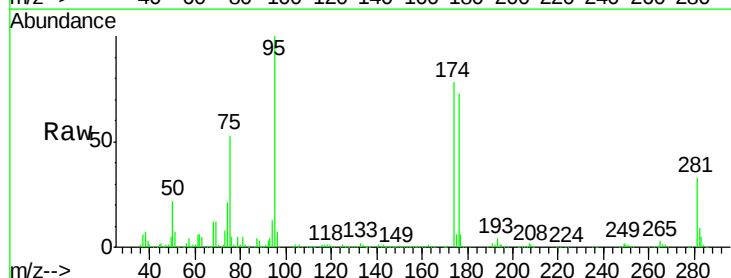
Tgt Ion: 75 Resp: 109566

Ion Ratio Lower Upper

75 100

53 0.2 90.5 135.7#

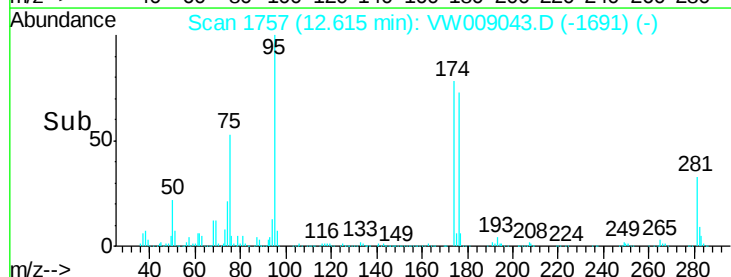
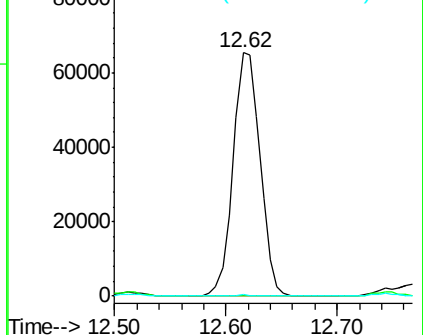
89 0.3 37.5 56.3#

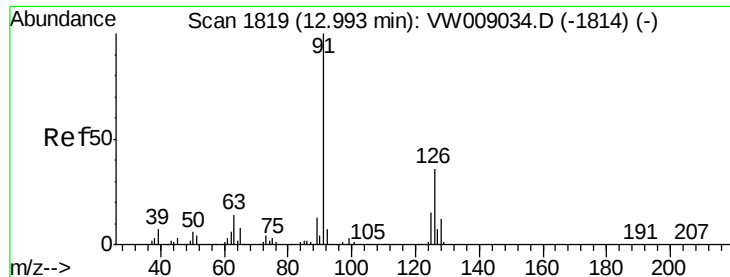


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#82

4-Chlorotoluene

Concen: 2.395 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. -0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

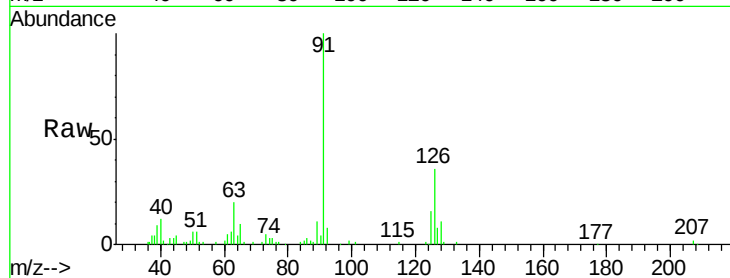
MDL-MDL-SOIL-03-QT1-2019

Tgt Ion: 91 Resp: 26752

Ion Ratio Lower Upper

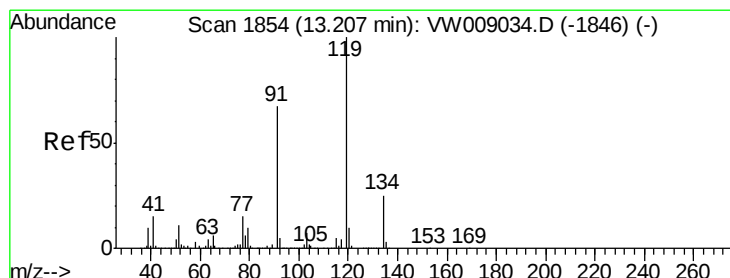
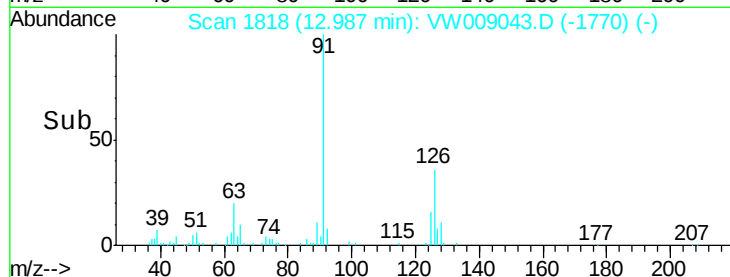
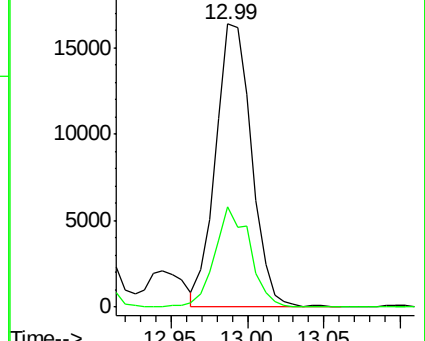
91 100

126 35.0 16.6 49.8



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#83

tert-Butylbenzene

Concen: 2.355 ug/l

RT: 13.21 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

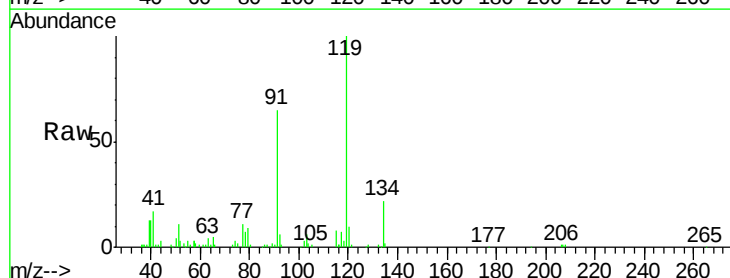
Tgt Ion: 119 Resp: 25920

Ion Ratio Lower Upper

119 100

91 67.9 34.2 102.5

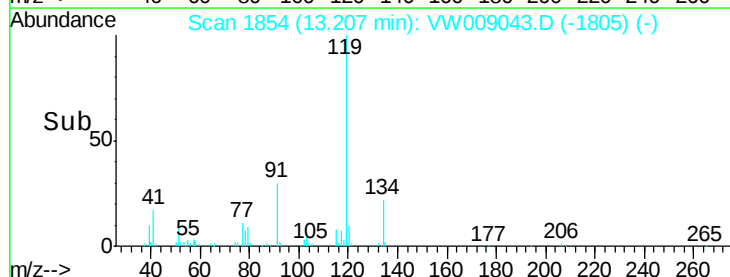
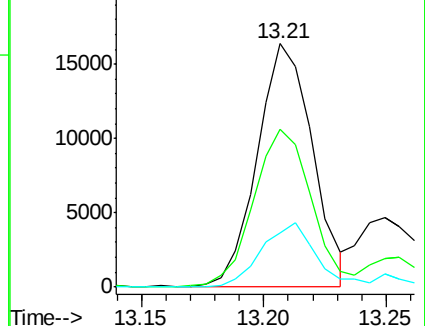
134 26.4 13.9 41.6

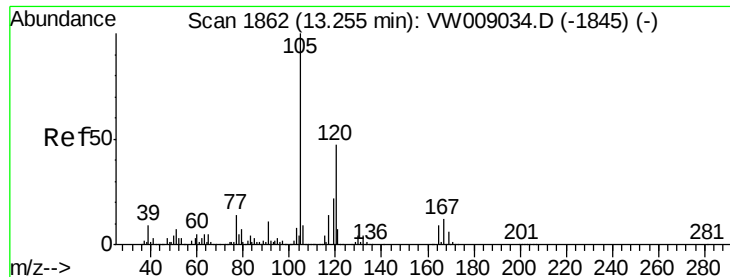


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VW

Ion 134.00 (133.70 to 134.70): V

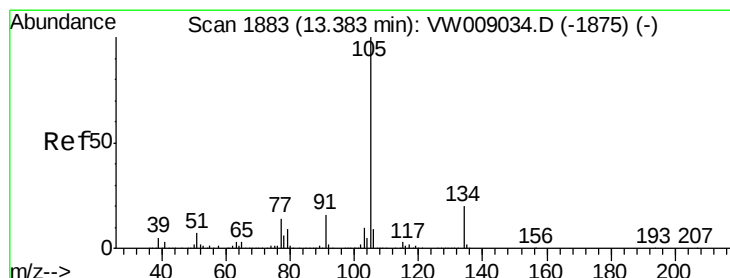
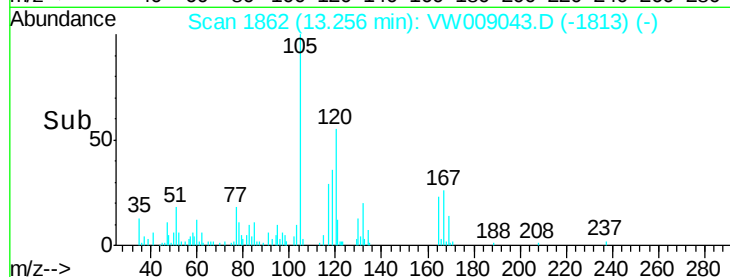
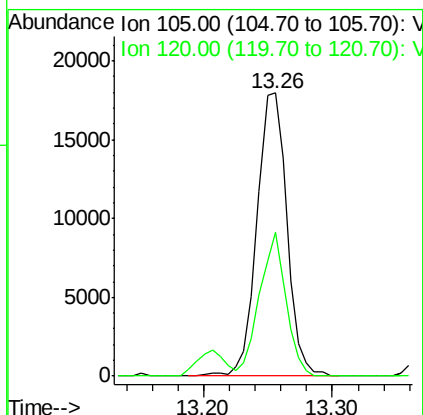
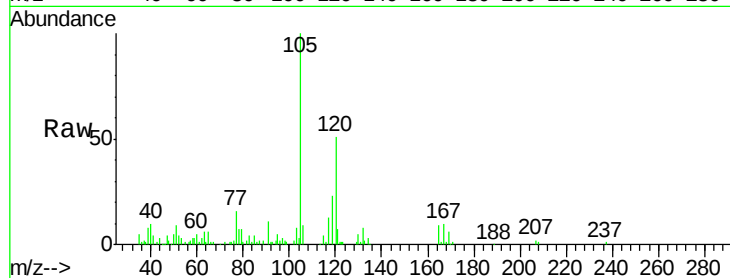




#84
1,2,4-Trimethylbenzene
Concen: 2.186 ug/l
RT: 13.26 min Scan# 1862
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

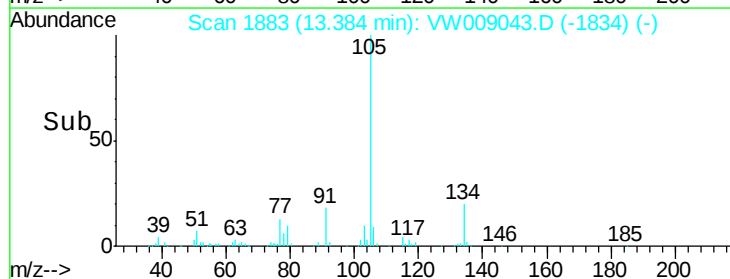
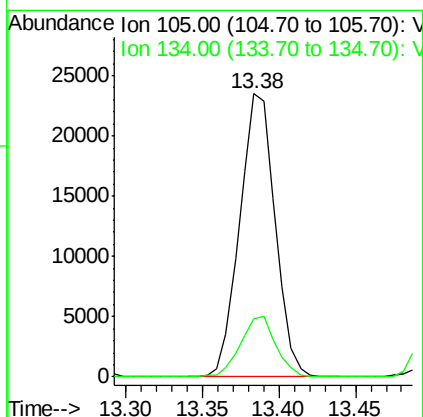
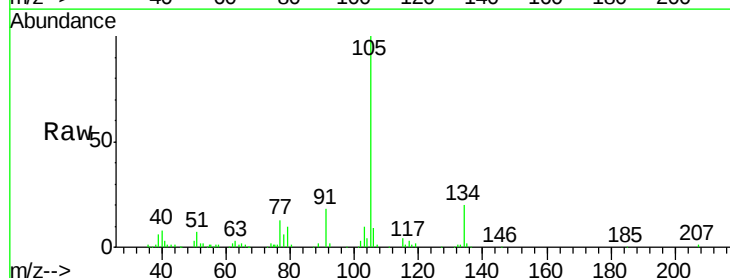
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

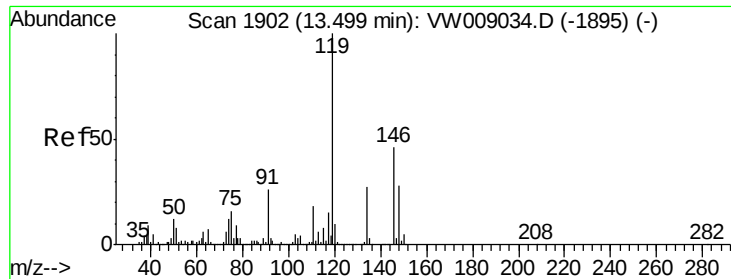
Tgt Ion:105 Resp: 28869
Ion Ratio Lower Upper
105 100
120 45.1 22.8 68.4



#85
sec-Butylbenzene
Concen: 2.317 ug/l
RT: 13.38 min Scan# 1883
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion:105 Resp: 37796
Ion Ratio Lower Upper
105 100
134 21.4 10.0 30.0

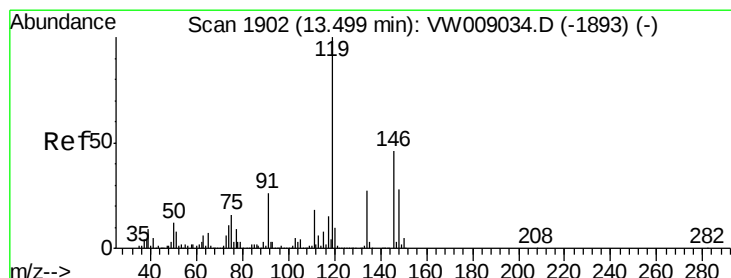
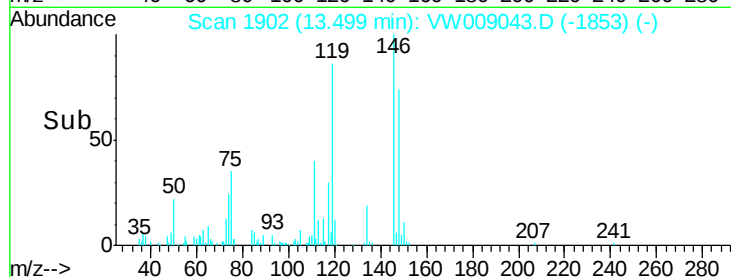
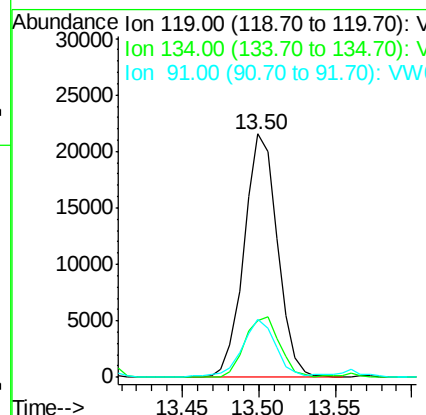
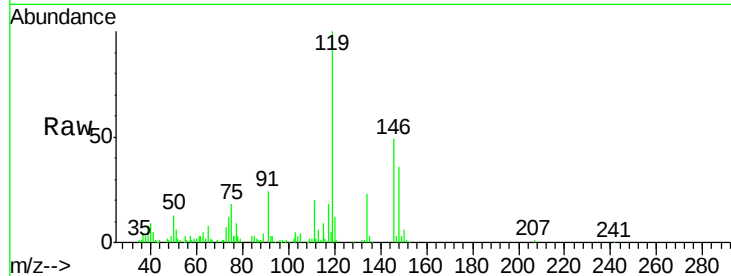




#86
p-Isopropyltoluene
Concen: 2.237 ug/l
RT: 13.50 min Scan# 1902
Delta R.T. 0.00 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

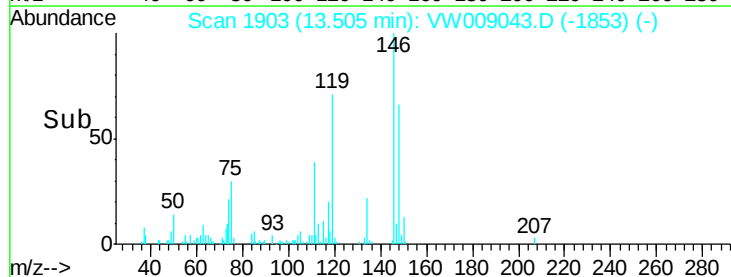
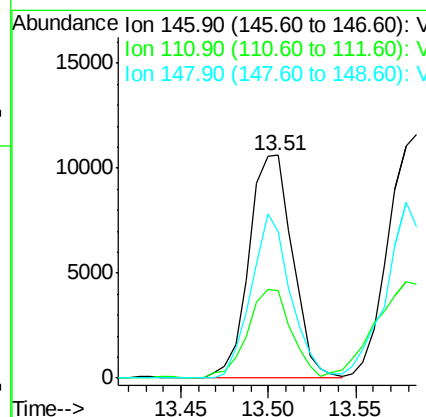
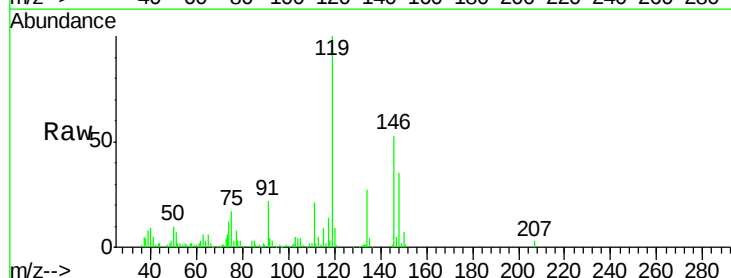
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT1-2019

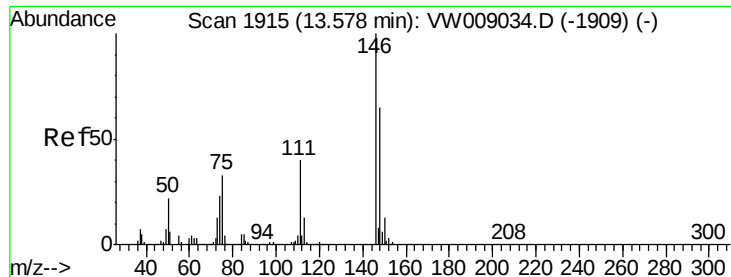
Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.7	13.3	39.9
91	24.6	12.3	36.9



#87
1,3-Dichlorobenzene
Concen: 2.531 ug/l
RT: 13.51 min Scan# 1903
Delta R.T. 0.01 min
Lab File: VW009043.D
Acq: 07 Mar 2019 16:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.0	19.8	59.4
148	67.0	31.6	94.8





#88

1,4-Dichlorobenzene

Concen: 2.726 ug/l

RT: 13.58 min Scan# 1916

Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

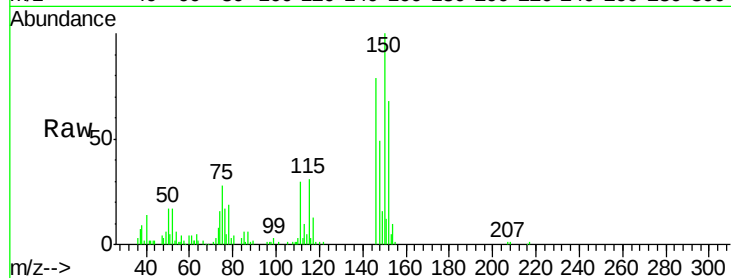
Tgt Ion:146 Resp: 19589

Ion Ratio Lower Upper

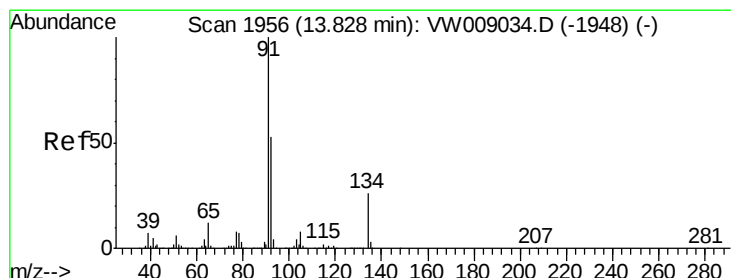
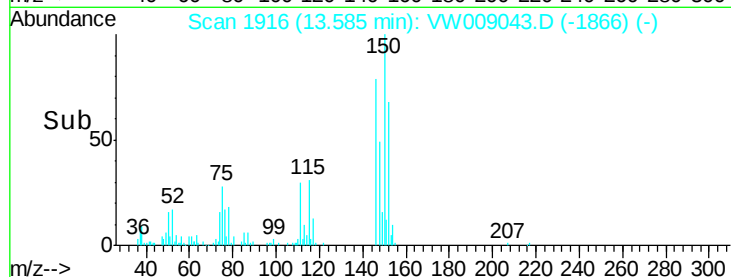
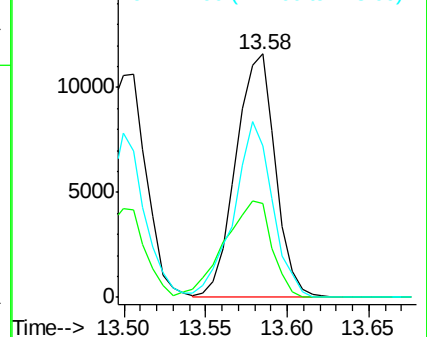
146 100

111 48.0 19.7 59.0

148 70.7 32.2 96.6



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 2.185 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

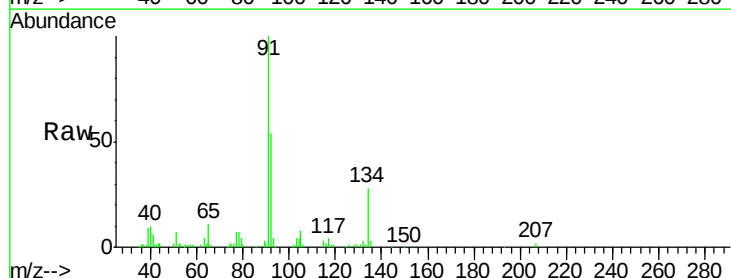
Tgt Ion: 91 Resp: 30304

Ion Ratio Lower Upper

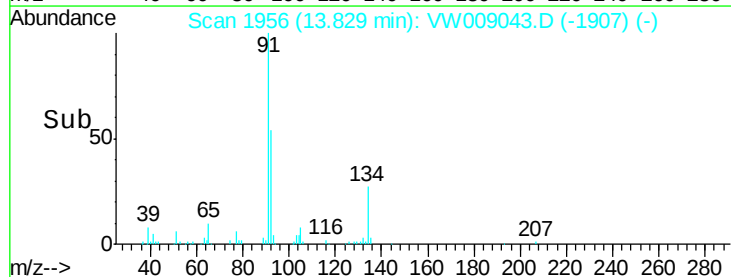
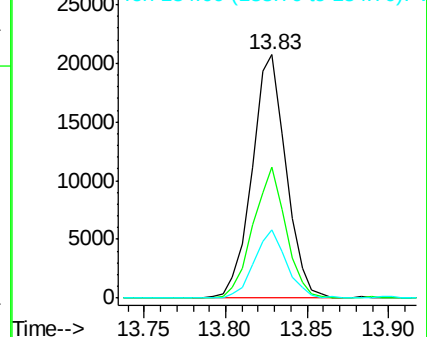
91 100

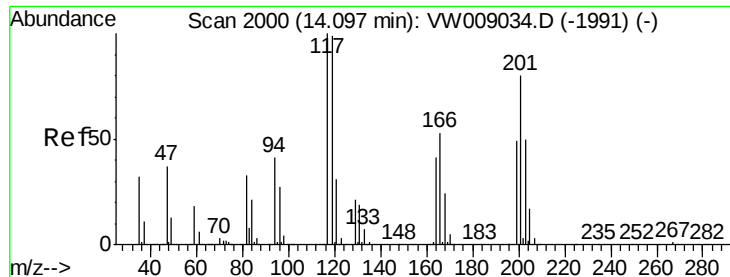
92 51.6 26.8 80.3

134 26.6 12.9 38.7



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 92.00 (91.70 to 92.70): VW
Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 2.449 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

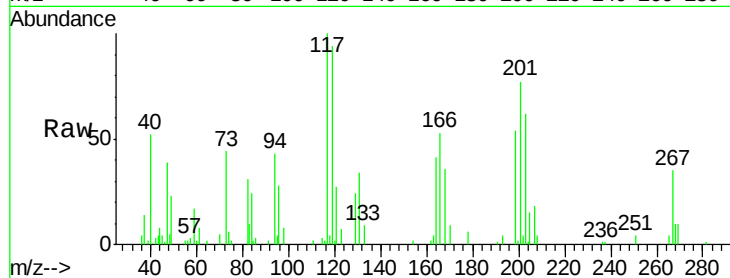
MDL-MDL-SOIL-03-QT1-2019

Tgt Ion:117 Resp: 6164

Ion Ratio Lower Upper

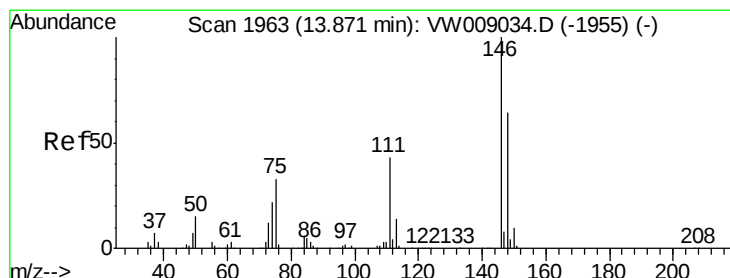
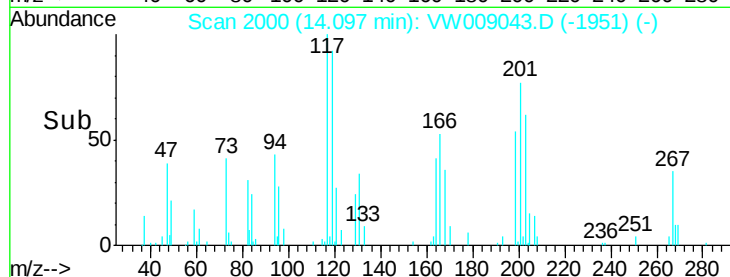
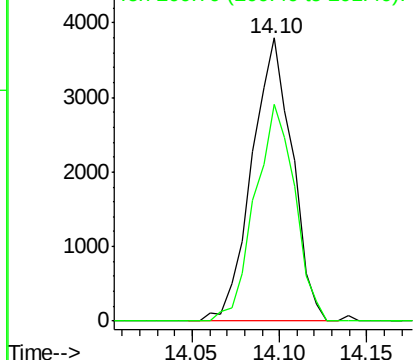
117 100

201 75.5 39.1 117.5



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 2.541 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

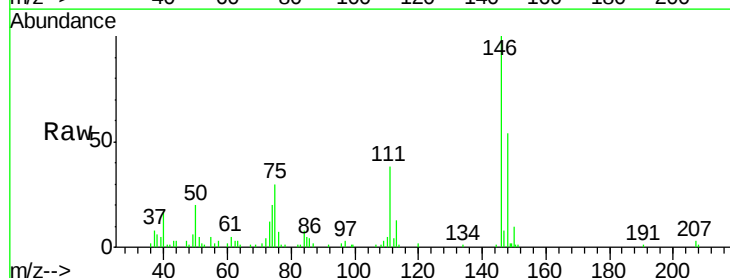
Tgt Ion:146 Resp: 16302

Ion Ratio Lower Upper

146 100

111 42.5 21.1 63.1

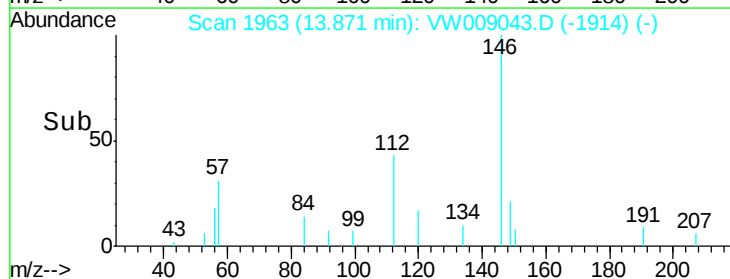
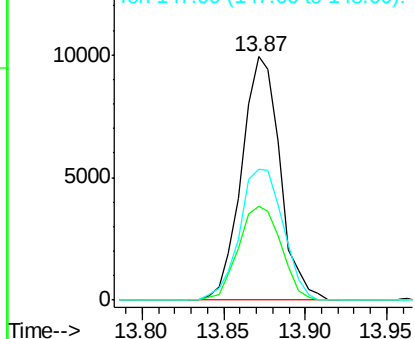
148 61.0 32.3 96.9

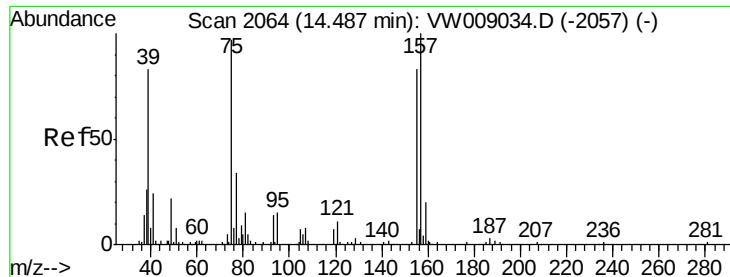


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.889 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

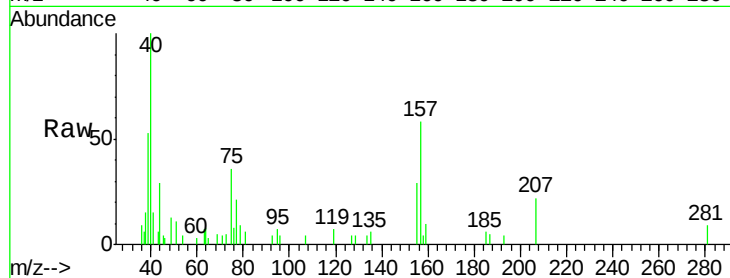
Tgt Ion: 75 Resp: 1229

Ion Ratio Lower Upper

75 100

155 68.2 40.8 122.4

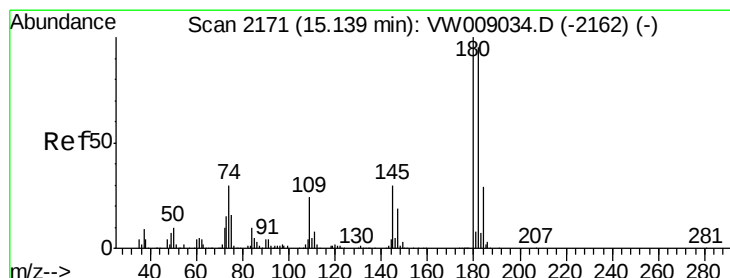
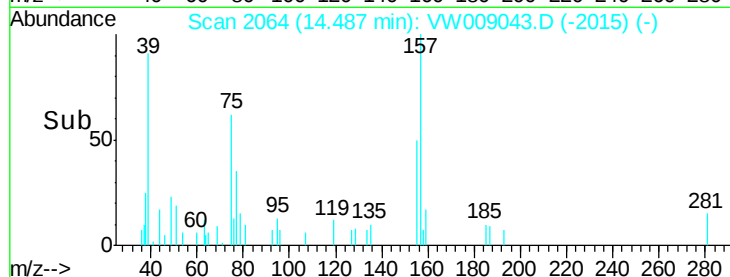
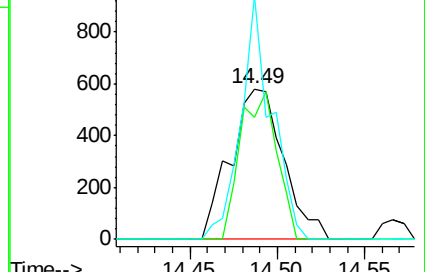
157 93.7 52.4 157.3



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 2.446 ug/l

RT: 15.14 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

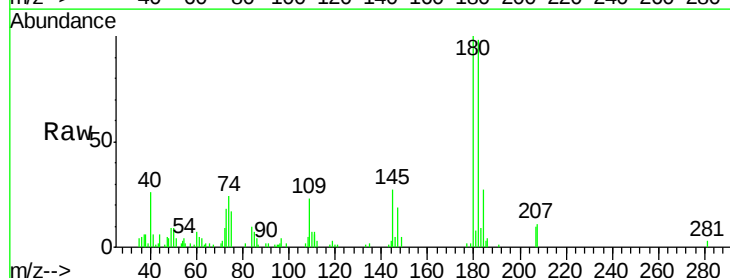
Tgt Ion: 180 Resp: 10599

Ion Ratio Lower Upper

180 100

182 95.8 48.1 144.3

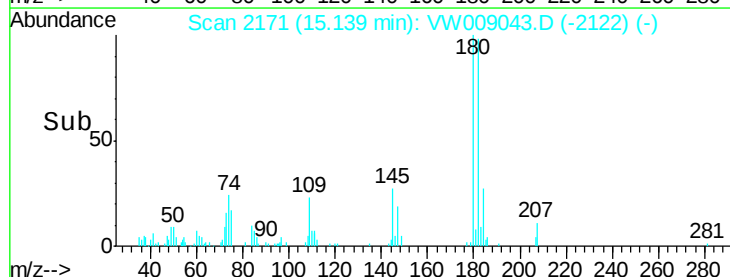
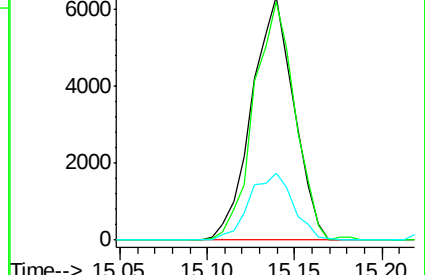
145 28.9 15.4 46.1

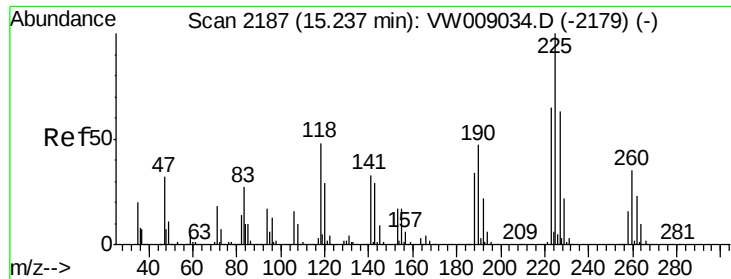


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 2.785 ug/l

RT: 15.24 min Scan# 2188

Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT1-2019

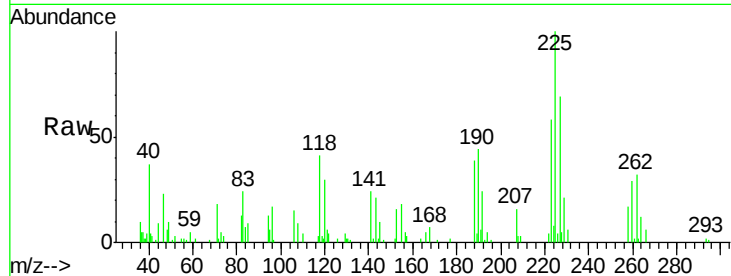
Tgt Ion:225 Resp: 7559

Ion Ratio Lower Upper

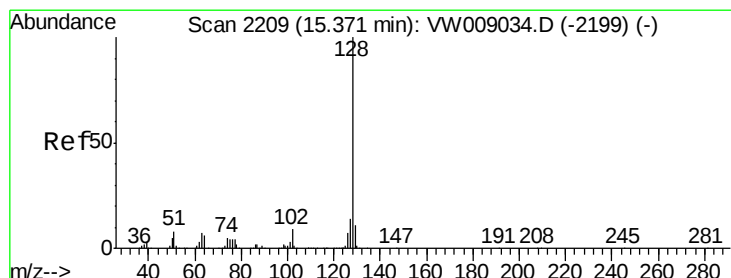
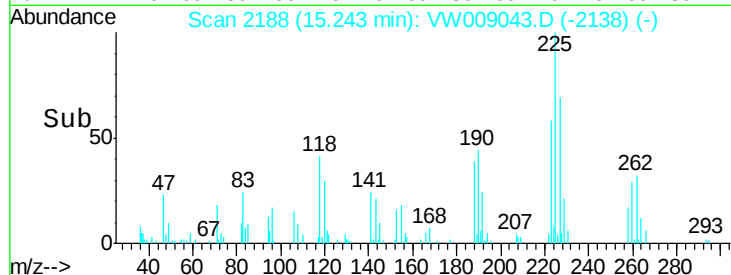
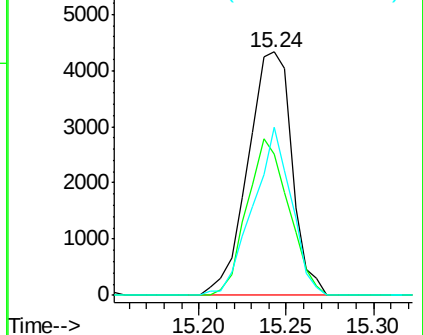
225 100

223 60.9 31.6 94.8

227 60.3 32.0 96.2



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.047 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. 0.01 min

Lab File: VW009043.D

Acq: 07 Mar 2019 16:48

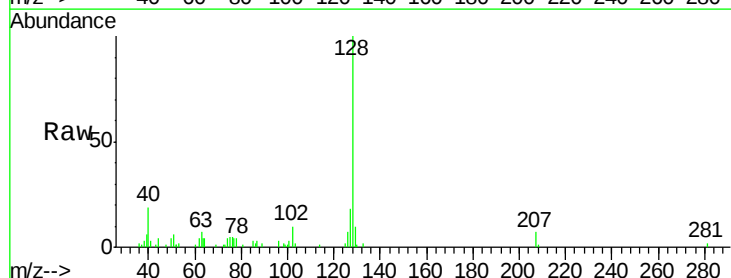
Tgt Ion:128 Resp: 14519

Ion Ratio Lower Upper

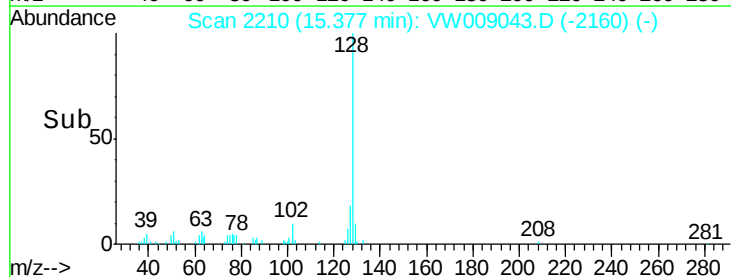
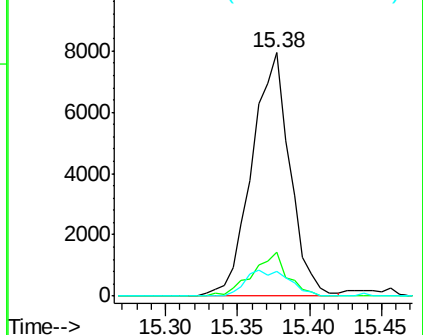
128 100

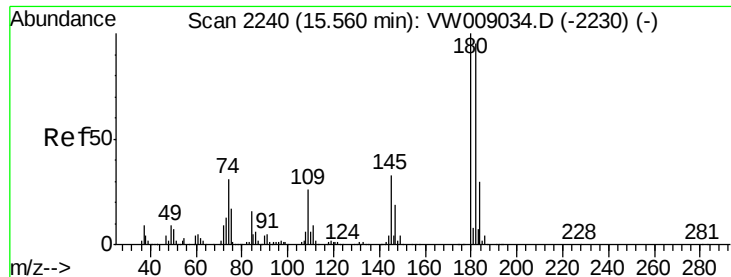
127 16.4 11.0 16.6

129 12.2 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

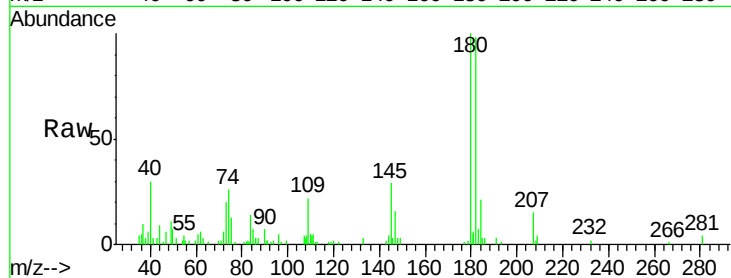




#96
 1,2,3-Trichlorobenzene
 Concen: 2.459 ug/l
 RT: 15.57 min Scan# 2241
 Delta R.T. 0.01 min
 Lab File: VW009043.D
 Acq: 07 Mar 2019 16:48

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

Tgt Ion	Ratio	Lower	Upper
180	100		
182	99.5	48.1	144.3
145	32.1	15.8	47.3



Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.90 (144.60 to 145.60): V

