

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\WV100919\
 Data File : VW013500.D
 Acq On : 09 Oct 2019 13:35
 Operator : SY/VA
 Sample : K5111-03 4PPBMDL
 Misc : 5.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Quant Time: Oct 10 02:38:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 05:54:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	361761	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	511449	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	440304	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	224898	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	133602	47.80	ug/l	0.00
Spiked Amount			Recovery	=	95.60%	
35) Dibromofluoromethane	7.88	113	138764	48.58	ug/l	0.00
Spiked Amount			Recovery	=	97.16%	
50) Toluene-d8	10.32	98	576426	48.02	ug/l	0.00
Spiked Amount			Recovery	=	96.04%	
62) 4-Bromofluorobenzene	12.62	95	194511	48.23	ug/l	0.00
Spiked Amount			Recovery	=	96.46%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	4108	3.428	ug/l	96
3) Chloromethane	2.21	50	9767	4.637	ug/l	98
4) Vinyl Chloride	2.35	62	12927	4.161	ug/l	95
5) Bromomethane	2.78	94	8117	4.379	ug/l	96
6) Chloroethane	2.92	64	7480	4.287	ug/l	98
7) Trichlorofluoromethane	3.25	101	6199	4.217	ug/l	99
8) Diethyl Ether	3.68	74	6497	4.270	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	4.06	101	12355	4.078	ug/l	94
10) Methyl Iodide	4.27	142	19631	4.092	ug/l #	92
11) Tert butyl alcohol	5.18	59	787	Below Cal	#	65
12) 1,1-Dichloroethene	4.04	96	13050	4.156	ug/l	98
13) Acrolein	3.89	56	639	6.246	ug/l #	36
14) Allyl chloride	4.67	41	19747	4.093	ug/l	98
15) Acrylonitrile	5.37	53	13389	18.828	ug/l	98
16) Acetone	4.13	43	13457	20.690	ug/l	98
17) Carbon Disulfide	4.38	76	35386	4.015	ug/l #	93
18) Methyl Acetate	4.67	43	3726	2.000	ug/l #	36
19) Methyl tert-butyl Ether	5.43	73	20192	4.253	ug/l	99
20) Methylene Chloride	4.92	84	21688	3.112	ug/l	95
21) trans-1,2-Dichloroethene	5.42	96	13449	4.031	ug/l	91
22) Diisopropyl ether	6.31	45	37995	4.203	ug/l	96
23) Vinyl Acetate	6.25	43	97847	18.028	ug/l	100
24) 1,1-Dichloroethane	6.21	63	23165	4.192	ug/l	96
25) 2-Butanone	7.18	43	19381	20.219	ug/l #	87
26) 2,2-Dichloropropane	7.16	77	17888	5.022	ug/l	93
27) cis-1,2-Dichloroethene	7.17	96	15865	4.494	ug/l	98
28) Bromochloromethane	7.52	49	8461	6.129	ug/l #	100
29) Tetrahydrofuran	7.54	42	11492	19.616	ug/l	96
30) Chloroform	7.68	83	24348	4.555	ug/l	96
31) Cyclohexane	7.95	56	28794	4.923	ug/l #	76
32) 1,1,1-Trichloroethane	7.87	97	18172	4.183	ug/l	98
36) 1,1-Dichloropropene	8.08	75	19905	4.302	ug/l	98
37) Ethyl Acetate	7.25	43	8246	3.928	ug/l #	94
38) Carbon Tetrachloride	8.07	117	16850	4.108	ug/l #	91

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW100919\
 Data File : VW013500.D
 Acq On : 09 Oct 2019 13:35
 Operator : SY/VA
 Sample : K5111-03 4PPBMDL
 Misc : 5.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Quant Time: Oct 10 02:38:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100819S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 05:54:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	25245	4.212	ug/l	95
40) Benzene	8.32	78	54724	4.237	ug/l	91
41) Methacrylonitrile	7.48	41	3989	3.342	ug/l	92
42) 1,2-Dichloroethane	8.40	62	14333	4.391	ug/l	97
43) Isopropyl Acetate	8.42	43	15303	4.035	ug/l	99
44) Trichloroethene	9.10	130	15354	4.167	ug/l	98
45) 1,2-Dichloropropane	9.37	63	13419	4.329	ug/l	93
46) Dibromomethane	9.46	93	6524	4.225	ug/l	98
47) Bromodichloromethane	9.65	83	16552	4.312	ug/l	99
48) Methyl methacrylate	9.43	41	6413	3.433	ug/l	93
49) 1,4-Dioxane	9.46	88	2008	74.051	ug/l #	91
51) 4-Methyl-2-Pentanone	10.21	43	40220	20.172	ug/l	99
52) Toluene	10.38	92	35447	4.261	ug/l	98
53) t-1,3-Dichloropropene	10.61	75	15895	3.985	ug/l	94
54) cis-1,3-Dichloropropene	10.07	75	20108	4.161	ug/l	95
55) 1,1,2-Trichloroethane	10.79	97	9315	4.019	ug/l	93
56) Ethyl methacrylate	10.65	69	11324	3.627	ug/l	95
57) 1,3-Dichloropropane	10.93	76	16880	4.241	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.93	63	26444	17.954	ug/l	99
59) 2-Hexanone	10.97	43	24160	17.671	ug/l	98
60) Dibromochloromethane	11.13	129	10880	4.081	ug/l	93
61) 1,2-Dibromoethane	11.24	107	9084	4.120	ug/l	100
64) Tetrachloroethene	10.87	164	14356	4.430	ug/l	87
65) Chlorobenzene	11.66	112	36985	4.227	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	12512	4.117	ug/l	99
67) Ethyl Benzene	11.73	91	67862	4.244	ug/l	100
68) m/p-Xylenes	11.84	106	51302	8.432	ug/l	99
69) o-Xylene	12.16	106	23819	4.237	ug/l	98
70) Styrene	12.18	104	39338	4.076	ug/l	99
71) Bromoform	12.35	173	6790	4.072	ug/l #	92
73) Isopropylbenzene	12.46	105	65247	4.050	ug/l	97
74) N-amyl acetate	12.27	43	12530	3.556	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.71	83	11390	4.148	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	13775	7.354	ug/l #	100
77) Bromobenzene	12.74	156	16013	4.194	ug/l	99
78) n-propylbenzene	12.80	91	76752	4.120	ug/l	97
79) 2-Chlorotoluene	12.89	91	43246	4.144	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	55922	4.178	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.51	75	3318	3.621	ug/l	96
82) 4-Chlorotoluene	12.99	91	45527	4.203	ug/l	100
83) tert-Butylbenzene	13.21	119	47892	4.029	ug/l	96
84) 1,2,4-Trimethylbenzene	13.25	105	54298	4.102	ug/l	99
85) sec-Butylbenzene	13.38	105	66306	4.037	ug/l	99
86) p-Isopropyltoluene	13.50	119	61447	4.072	ug/l	100
87) 1,3-Dichlorobenzene	13.50	146	31069	4.291	ug/l	97
88) 1,4-Dichlorobenzene	13.58	146	30967	4.366	ug/l	94
89) n-Butylbenzene	13.82	91	53684	3.938	ug/l	98
90) Hexachloroethane	14.09	117	10248	3.969	ug/l	98
91) 1,2-Dichlorobenzene	13.87	146	26586	4.159	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.48	75	1639	3.744	ug/l	87

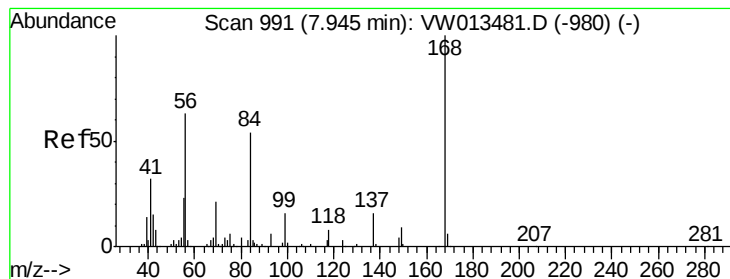
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW100919\
Data File : VW013500.D
Acq On : 09 Oct 2019 13:35
Operator : SY/VA
Sample : K5111-03 4PPBMDL
Misc : 5.00G/5ML/MSVOA_W/SOIL
ALS Vial : 7 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Quant Time: Oct 10 02:38:51 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W100819S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 09 05:54:09 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	17281	3.825	ug/l	99
94) Hexachlorobutadiene	15.23	225	13128	4.373	ug/l	96
95) Naphthalene	15.36	128	25243	3.230	ug/l	98
96) 1,2,3-Trichlorobenzene	15.56	180	15223	3.853	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

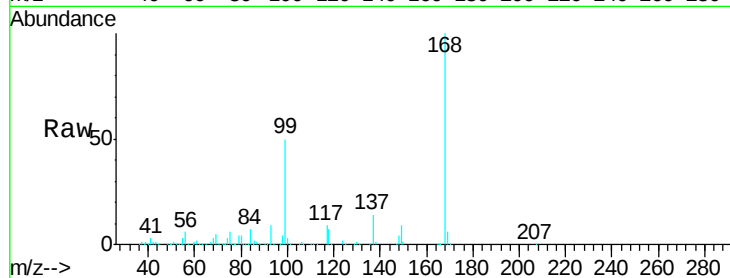
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 168 Resp: 361761

Ion Ratio Lower Upper

168 100

99 50.0 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

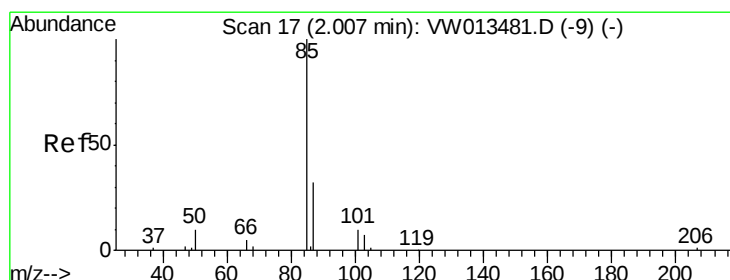
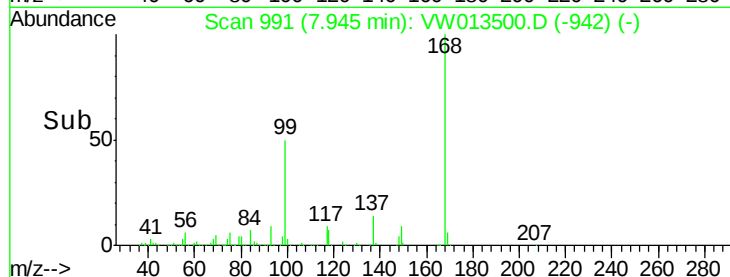
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 3.428 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW013500.D

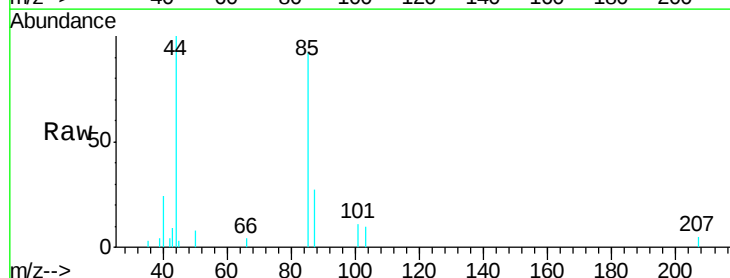
Acq: 09 Oct 2019 13:35

Tgt Ion: 85 Resp: 4108

Ion Ratio Lower Upper

85 100

87 29.1 15.8 47.3



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

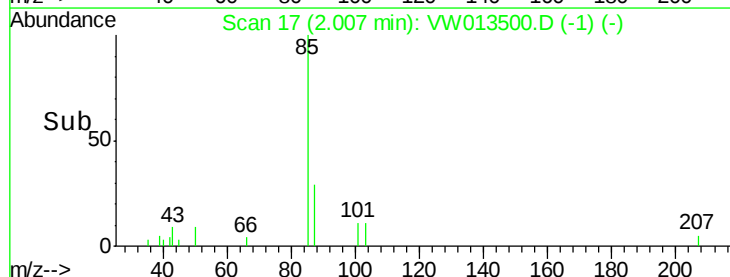
1500

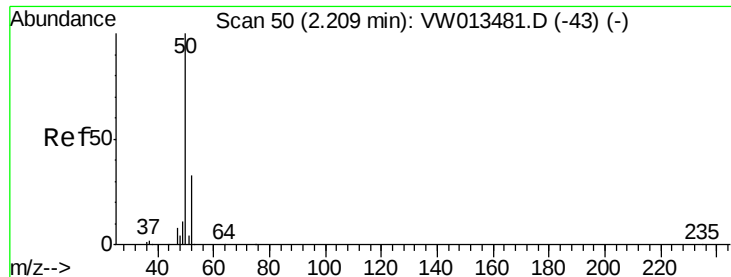
1000

500

0

Time--> 1.95 2.00 2.05 2.10





#3

Chloromethane

Concen: 4.637 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

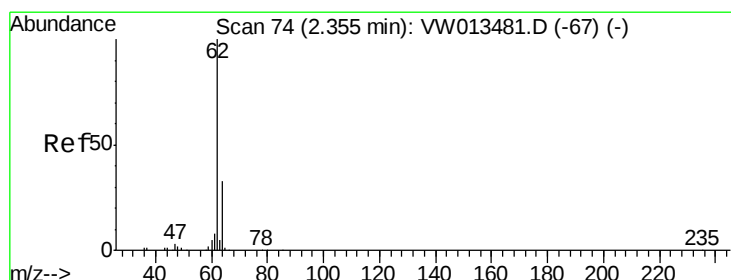
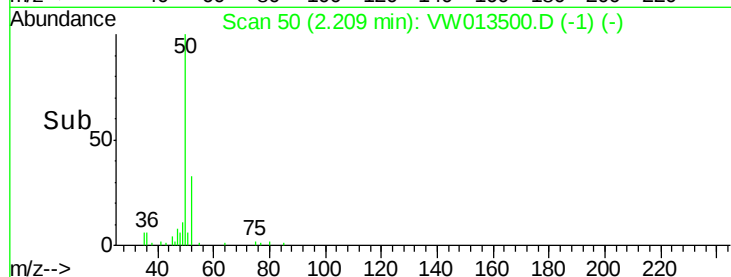
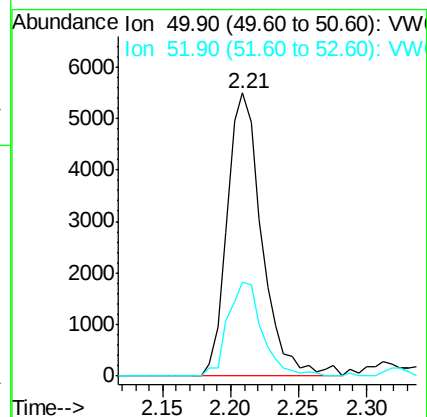
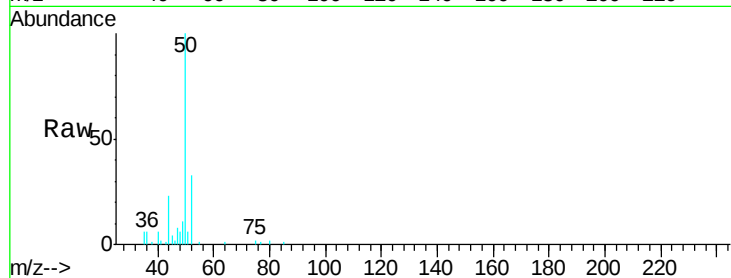
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 50 Resp: 9767

Ion Ratio Lower Upper

50 100

52 33.4 26.0 39.0



#4

Vinyl Chloride

Concen: 4.161 ug/l

RT: 2.35 min Scan# 74

Delta R.T. 0.00 min

Lab File: VW013500.D

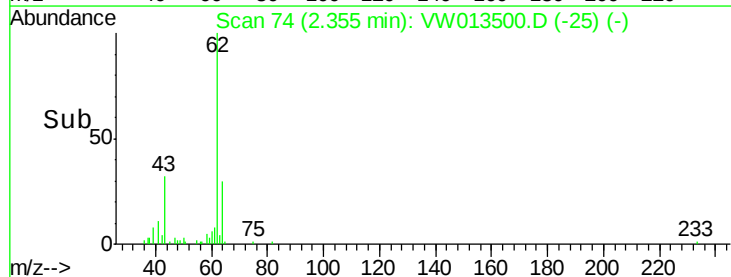
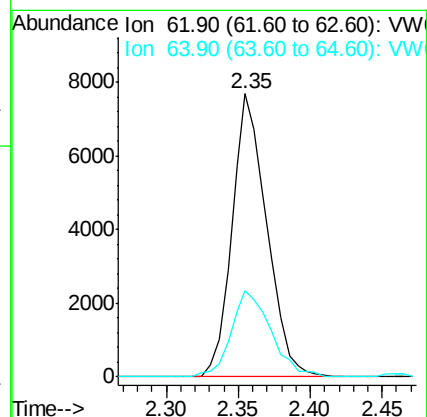
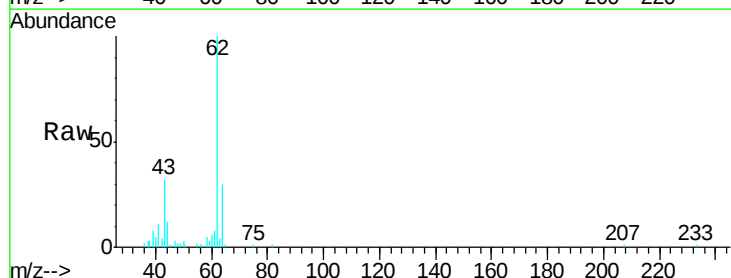
Acq: 09 Oct 2019 13:35

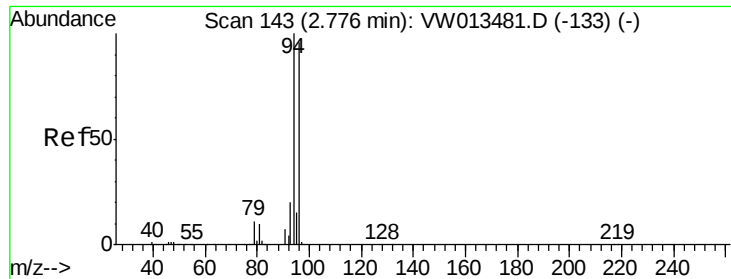
Tgt Ion: 62 Resp: 12927

Ion Ratio Lower Upper

62 100

64 30.3 26.6 39.8





#5

Bromomethane

Concen: 4.379 ug/l

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

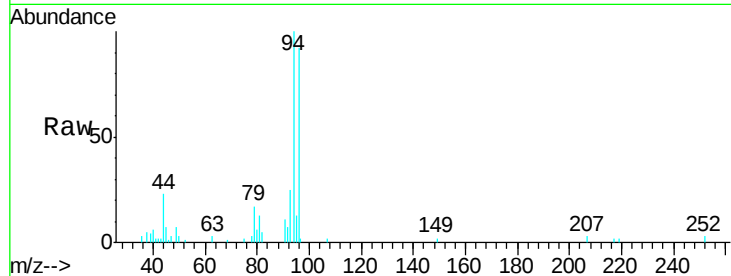
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 94 Resp: 8117

Ion Ratio Lower Upper

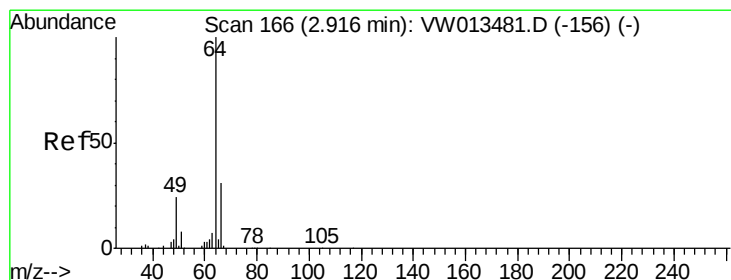
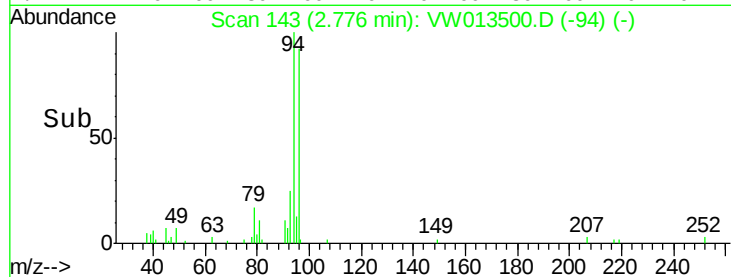
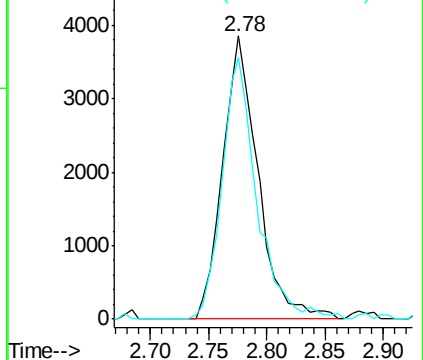
94 100

96 92.5 77.0 115.6



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#6

Chloroethane

Concen: 4.287 ug/l

RT: 2.92 min Scan# 166

Delta R.T. 0.00 min

Lab File: VW013500.D

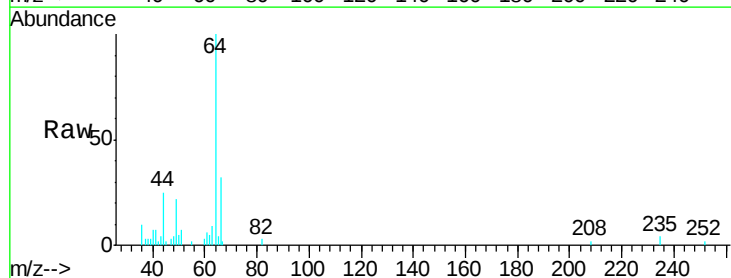
Acq: 09 Oct 2019 13:35

Tgt Ion: 64 Resp: 7480

Ion Ratio Lower Upper

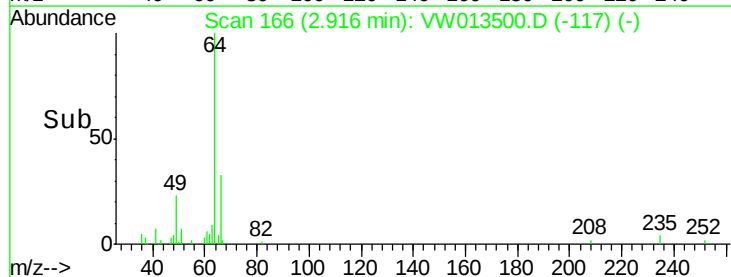
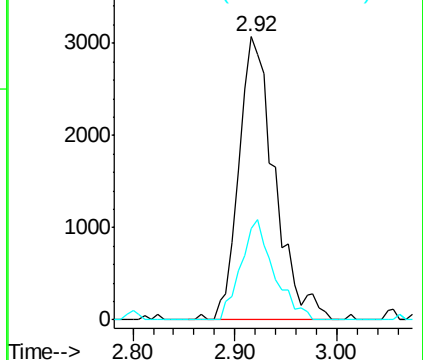
64 100

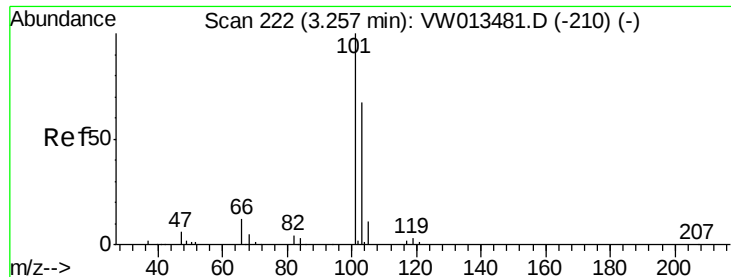
66 32.3 25.0 37.4



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW



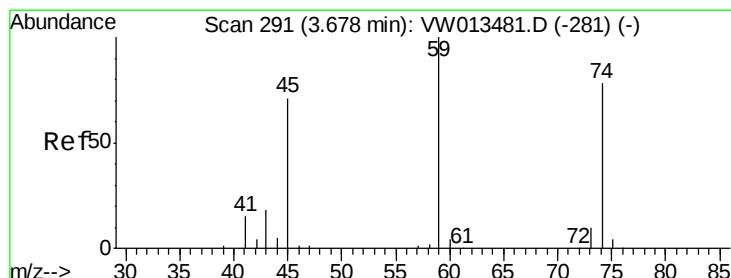
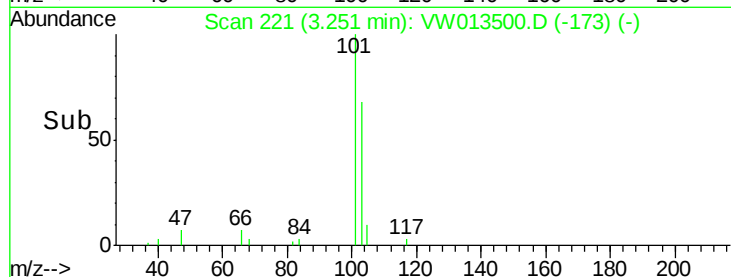
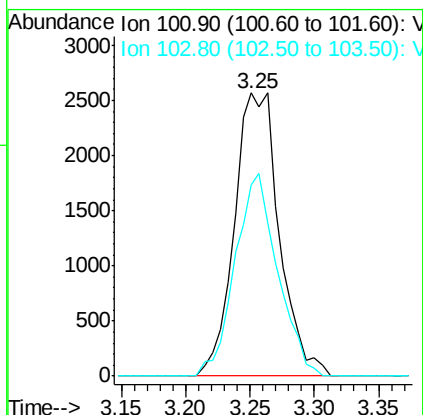
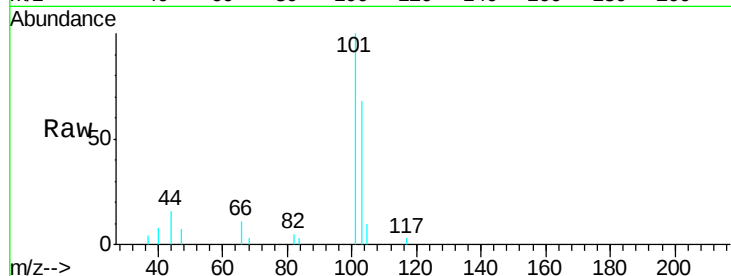


#7

Trichlorofluoromethane
 Concen: 4.217 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. -0.01 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

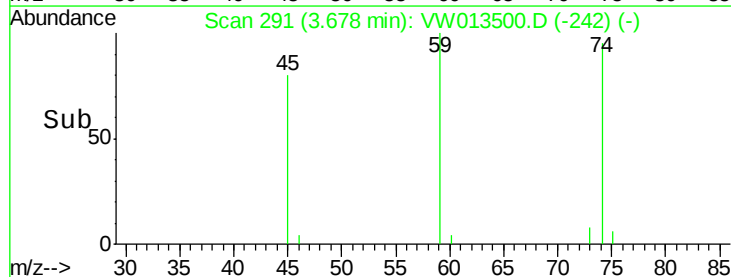
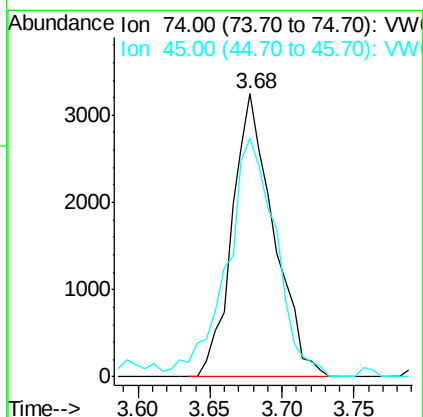
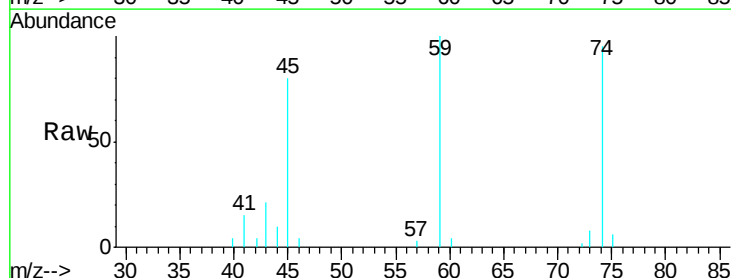
Tgt Ion: 101 Resp: 6199
 Ion Ratio Lower Upper
 101 100
 103 67.5 53.7 80.5

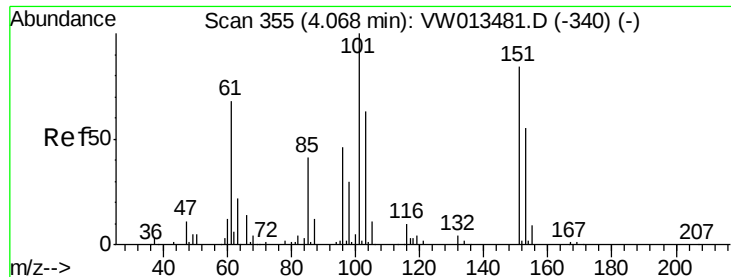


#8

Diethyl Ether
 Concen: 4.270 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. 0.00 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

Tgt Ion: 74 Resp: 6497
 Ion Ratio Lower Upper
 74 100
 45 99.9 50.0 150.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.078 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.01 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

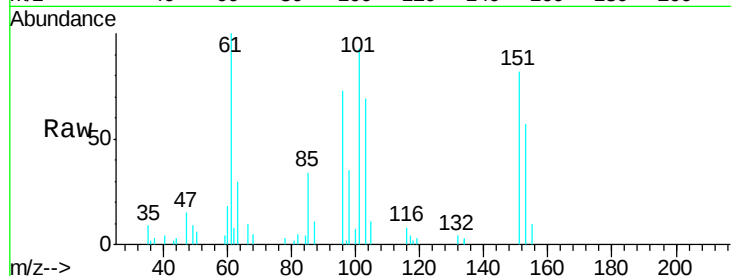
Tgt Ion:101 Resp: 12355

Ion Ratio Lower Upper

101 100

85 42.4 31.6 47.4

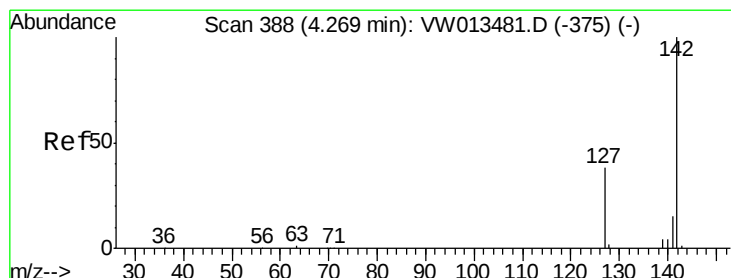
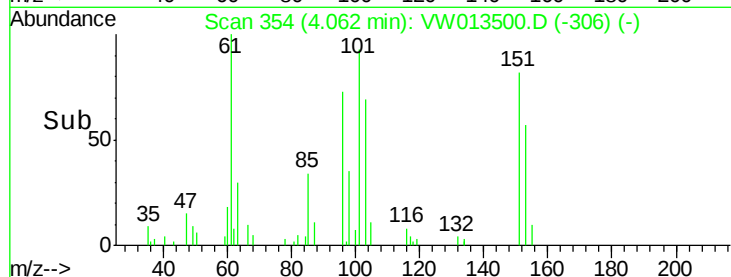
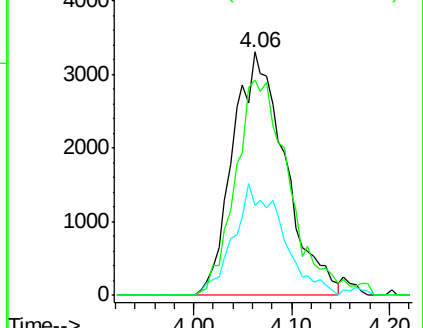
151 90.0 67.5 101.3



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.092 ug/l

RT: 4.27 min Scan# 388

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

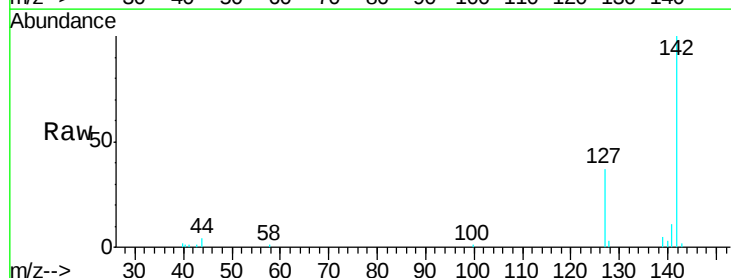
Tgt Ion:142 Resp: 19631

Ion Ratio Lower Upper

142 100

127 38.5 29.6 44.4

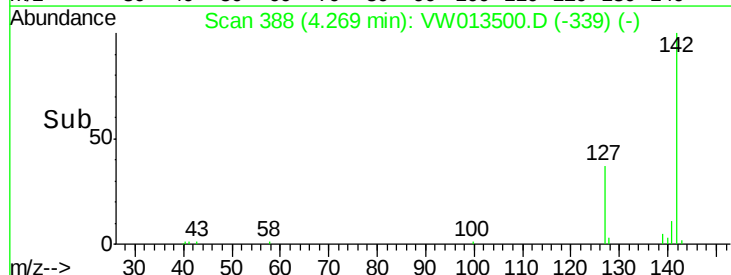
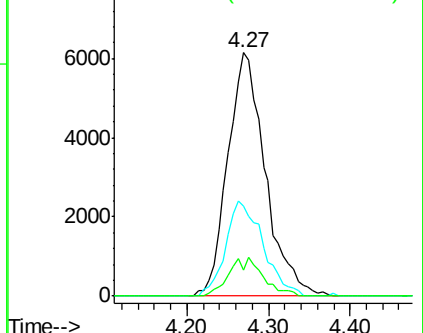
141 6.9 12.1 18.1#

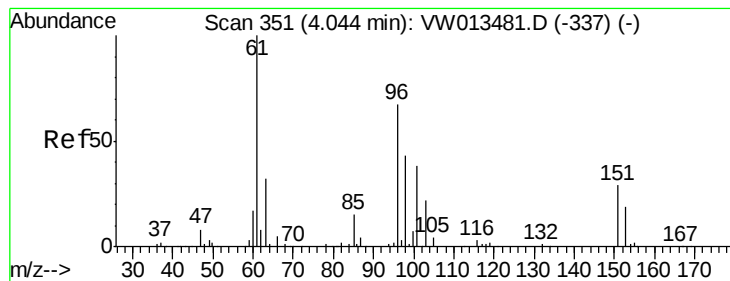


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#12

1,1-Dichloroethene

Concen: 4.156 ug/l

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

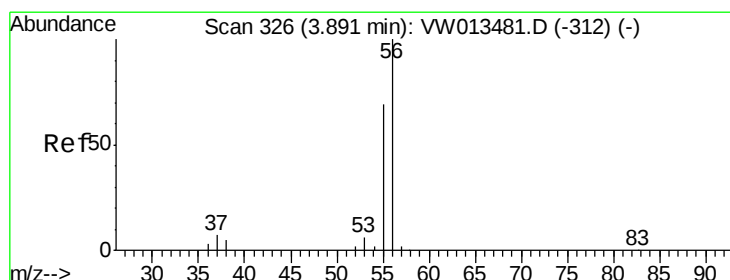
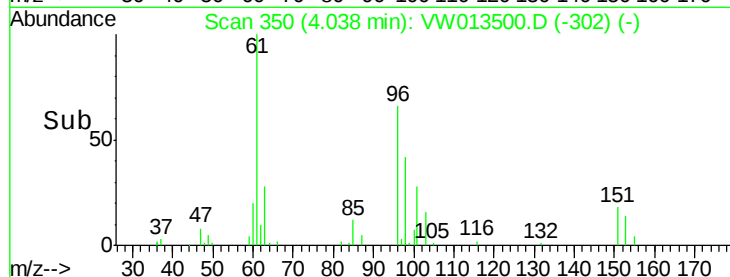
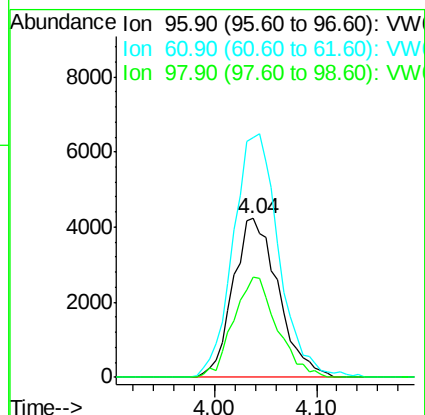
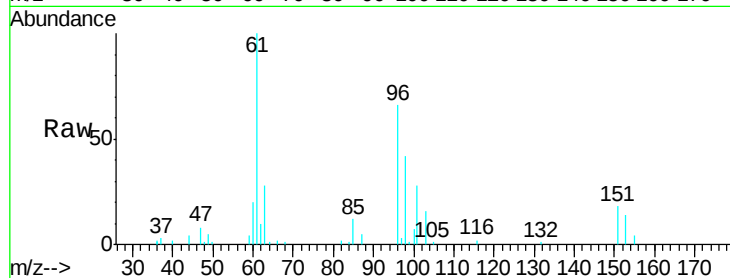
Tgt Ion: 96 Resp: 13050

Ion Ratio Lower Upper

96 100

61 151.4 119.4 179.0

98 63.1 51.1 76.7



#13

Acrolein

Concen: 6.246 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW013500.D

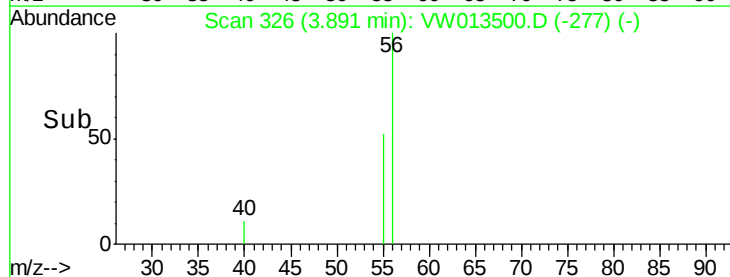
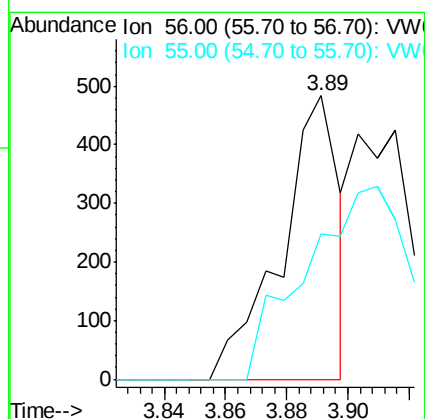
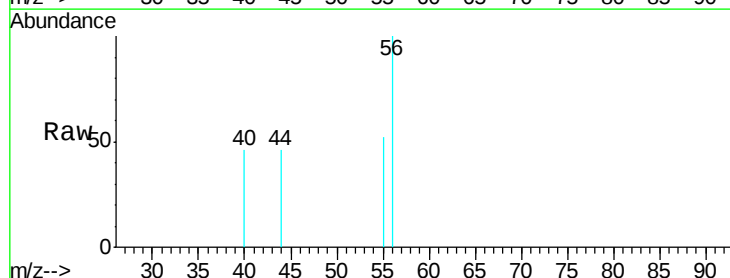
Acq: 09 Oct 2019 13:35

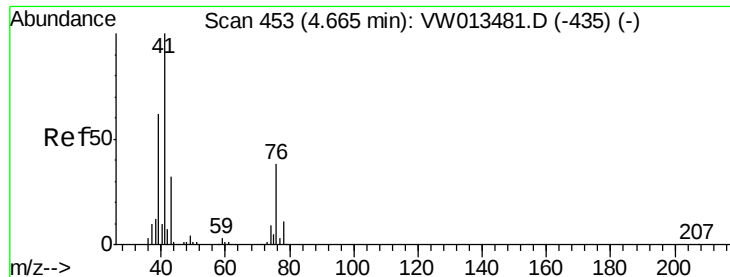
Tgt Ion: 56 Resp: 639

Ion Ratio Lower Upper

56 100

55 122.7 55.9 83.9#

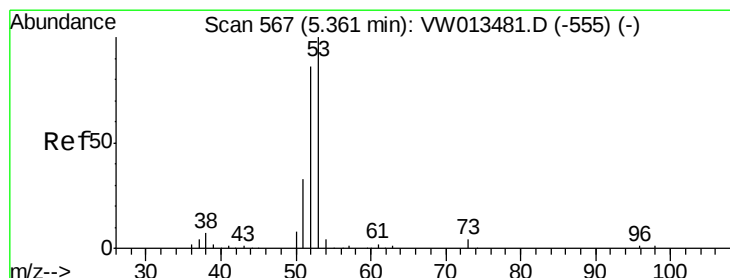
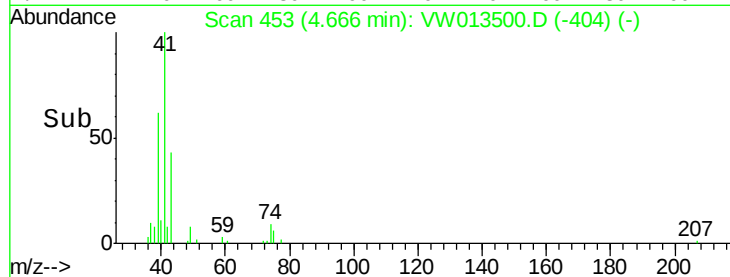
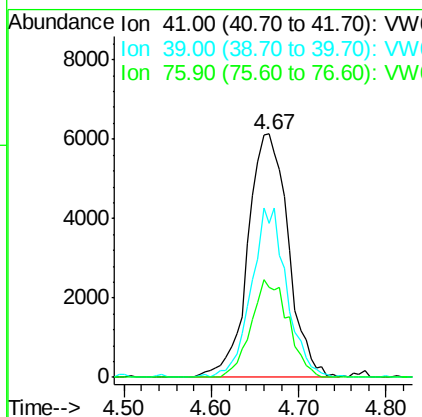
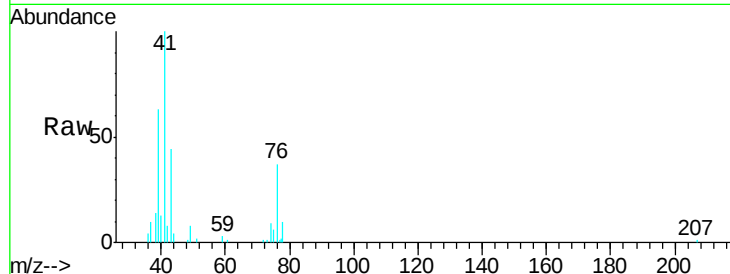




#14
 Allyl chloride
 Concen: 4.093 ug/l
 RT: 4.67 min Scan# 453
 Delta R.T. 0.00 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

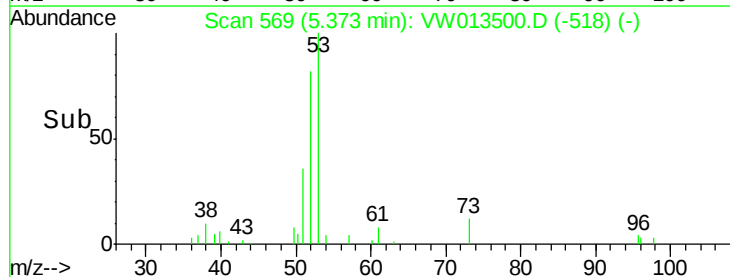
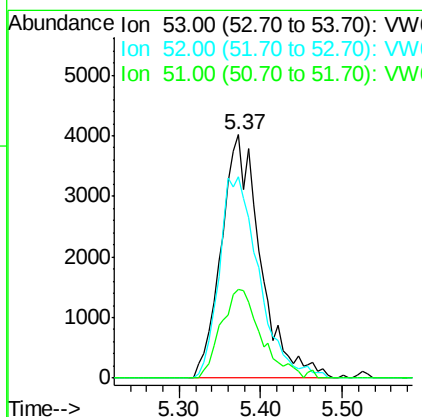
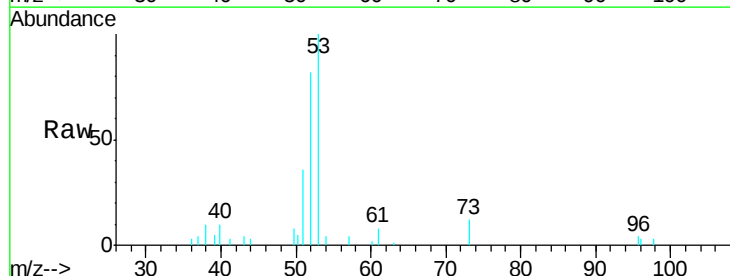
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

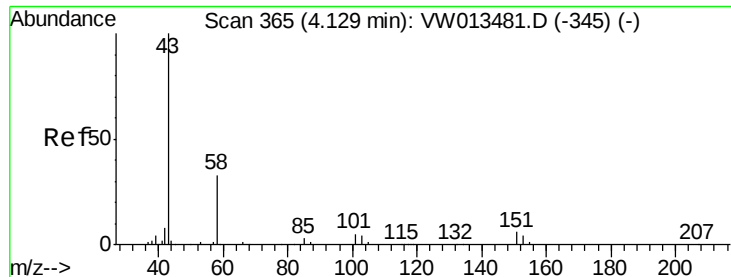
Tgt Ion: 41 Resp: 19747
 Ion Ratio Lower Upper
 41 100
 39 61.1 50.1 75.1
 76 36.8 29.0 43.4



#15
 Acrylonitrile
 Concen: 18.828 ug/l
 RT: 5.37 min Scan# 569
 Delta R.T. 0.01 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

Tgt Ion: 53 Resp: 13389
 Ion Ratio Lower Upper
 53 100
 52 83.6 65.8 98.8
 51 36.8 28.6 42.8

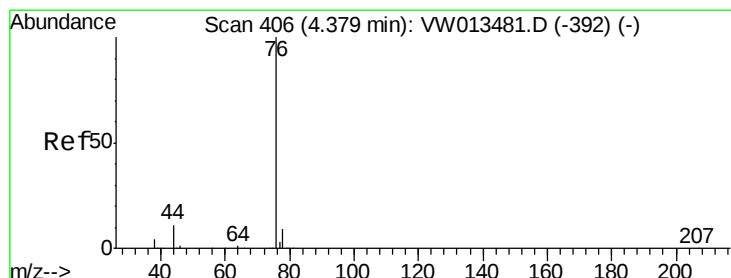
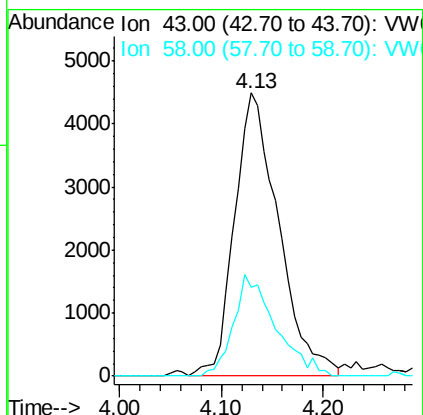
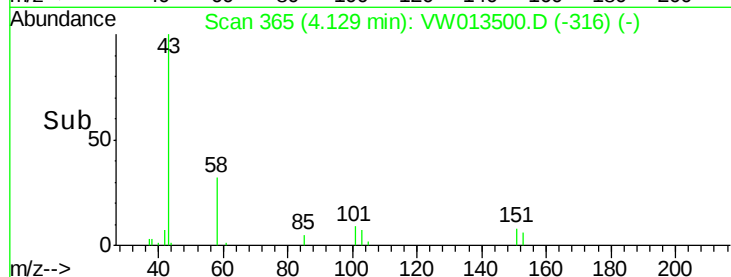
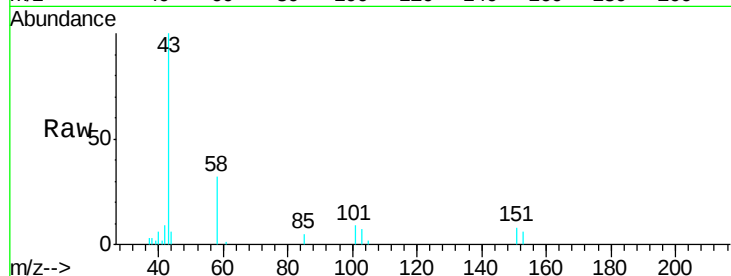




#16
Acetone
Concen: 20.690 ug/l
RT: 4.13 min Scan# 365
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

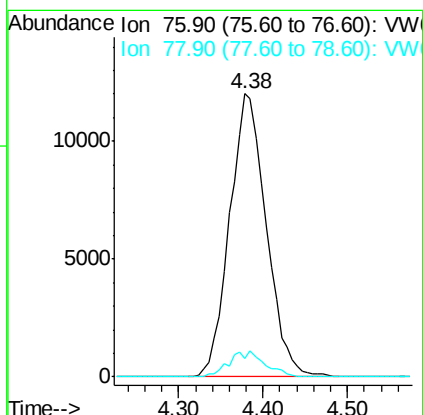
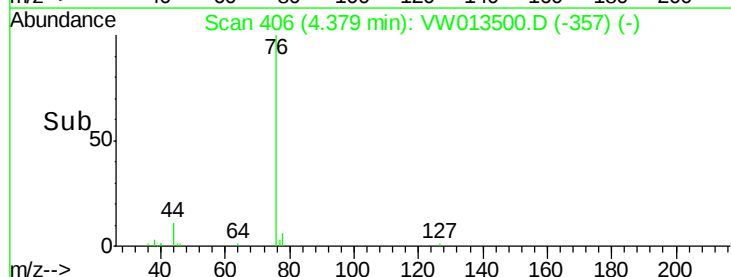
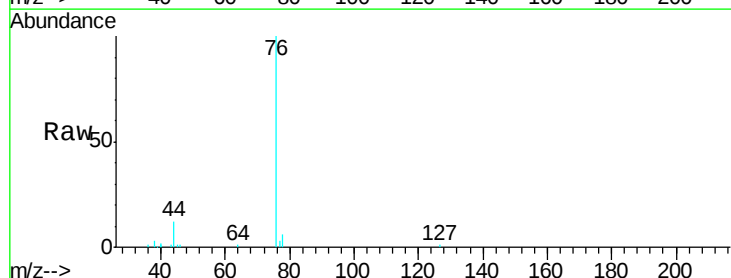
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

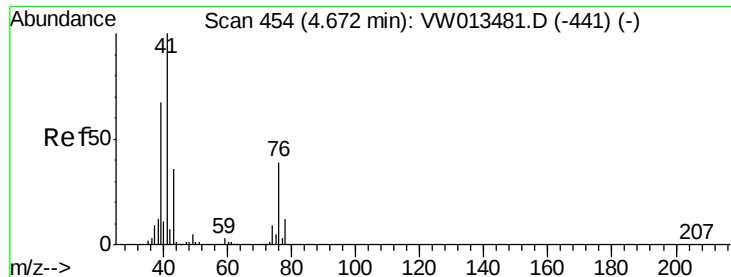
Tgt Ion: 43 Resp: 13457
Ion Ratio Lower Upper
43 100
58 31.6 26.1 39.1



#17
Carbon Disulfide
Concen: 4.015 ug/l
RT: 4.38 min Scan# 406
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

Tgt Ion: 76 Resp: 35386
Ion Ratio Lower Upper
76 100
78 6.4 7.1 10.7#





#18

Methyl Acetate

Concen: 2.000 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.01 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

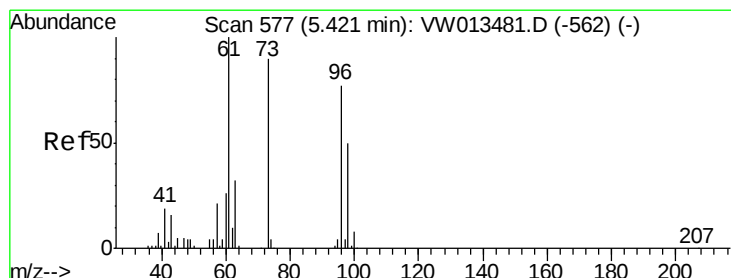
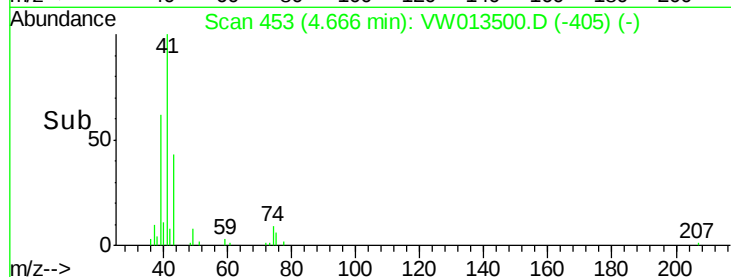
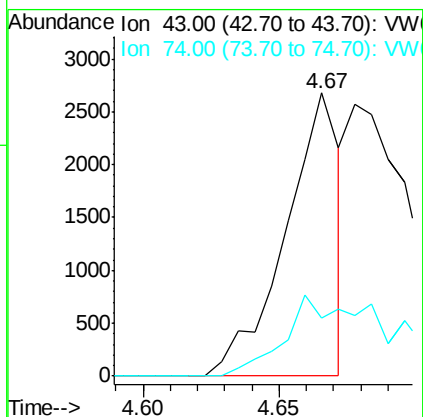
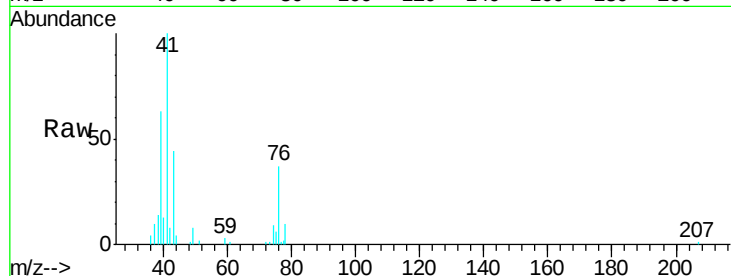
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 43 Resp: 3726

Ion Ratio Lower Upper

43 100

74 56.4 19.6 29.4#



#19

Methyl tert-butyl Ether

Concen: 4.253 ug/l

RT: 5.43 min Scan# 578

Delta R.T. 0.01 min

Lab File: VW013500.D

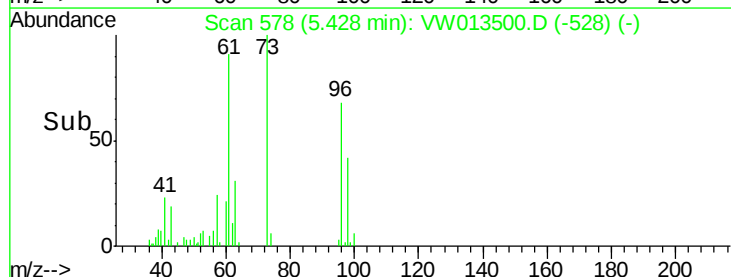
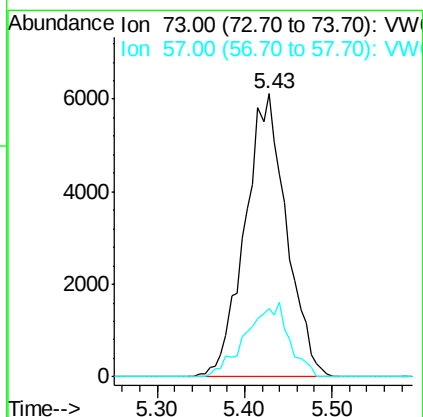
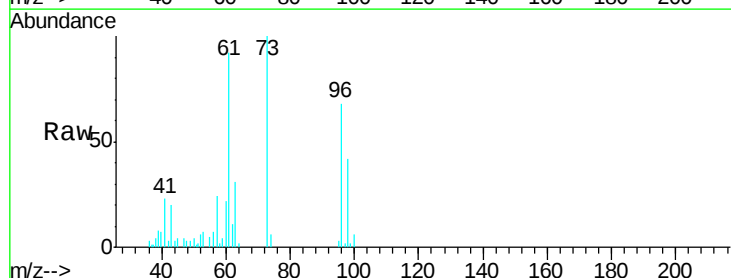
Acq: 09 Oct 2019 13:35

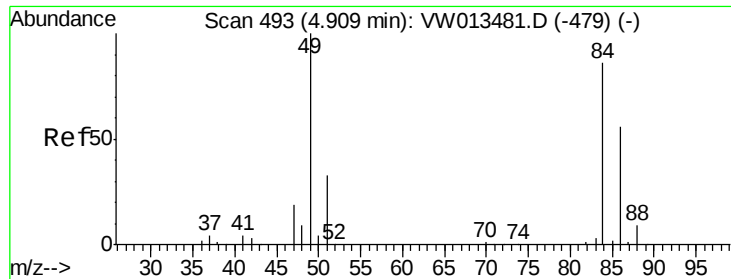
Tgt Ion: 73 Resp: 20192

Ion Ratio Lower Upper

73 100

57 23.9 18.6 27.8

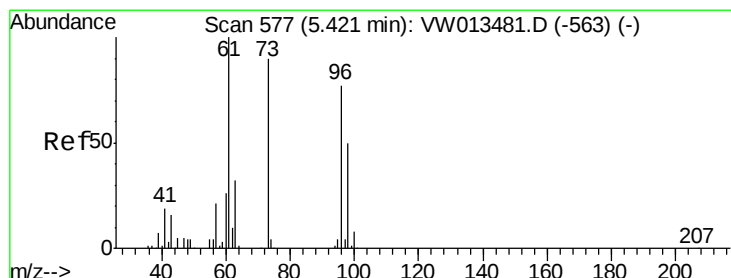
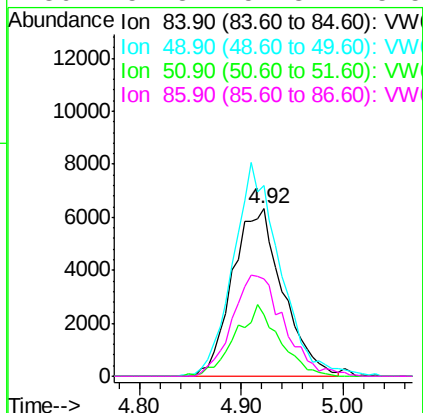
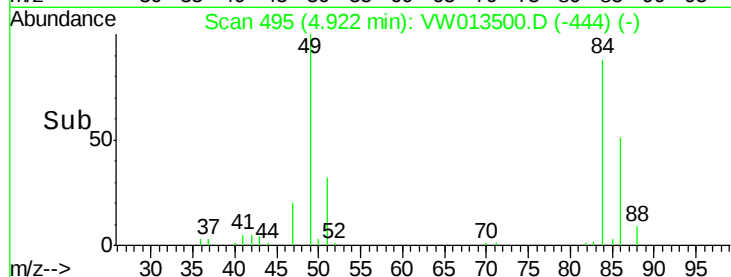
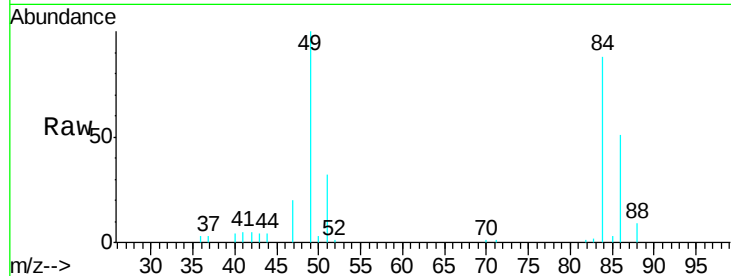




#20
Methylene Chloride
Concen: 3.112 ug/l
RT: 4.92 min Scan# 495
Delta R.T. 0.01 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

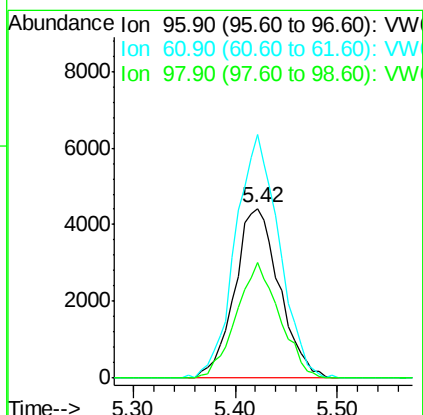
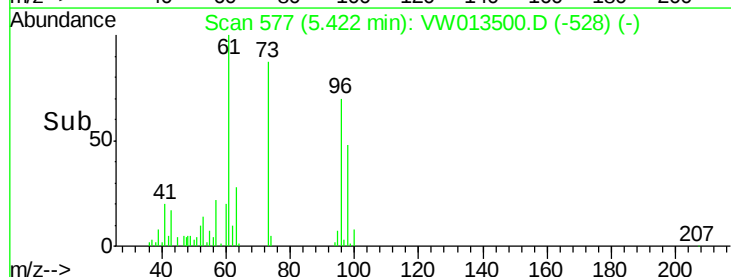
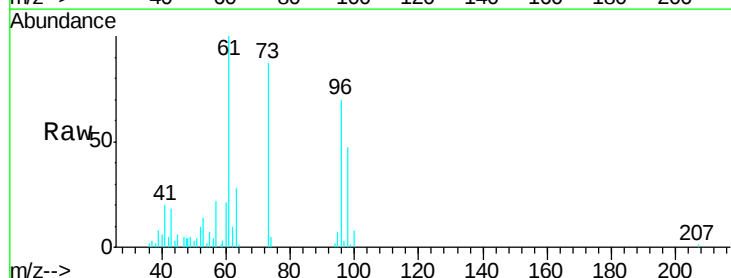
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

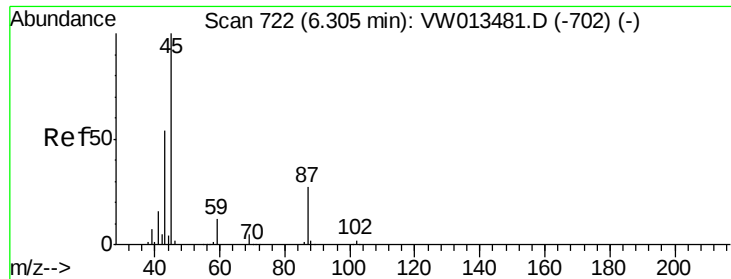
Tgt Ion:	84	Resp:	21688
Ion	Ratio	Lower	Upper
84	100		
49	113.1	93.4	140.0
51	36.5	30.6	46.0
86	57.8	52.3	78.5



#21
trans-1,2-Dichloroethene
Concen: 4.031 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

Tgt Ion:	96	Resp:	13449
Ion	Ratio	Lower	Upper
96	100		
61	143.4	104.3	156.5
98	67.9	51.8	77.8



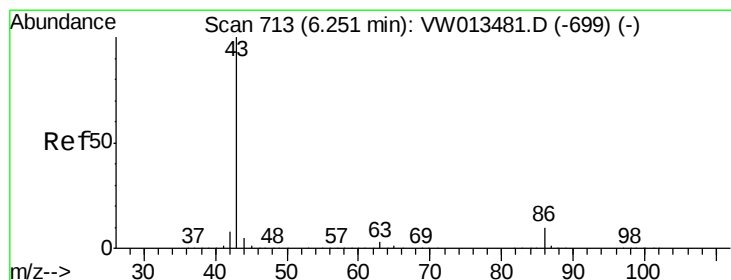
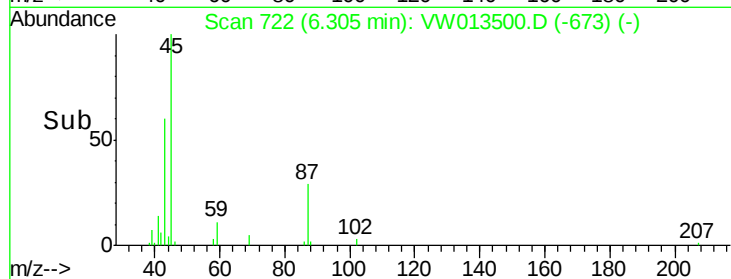
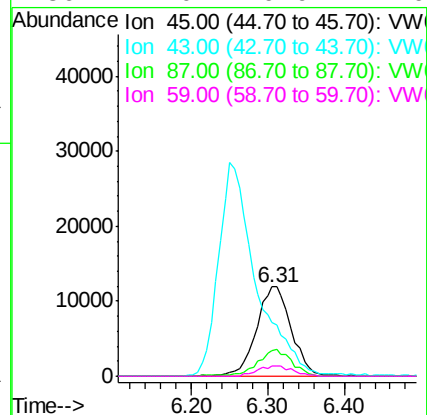
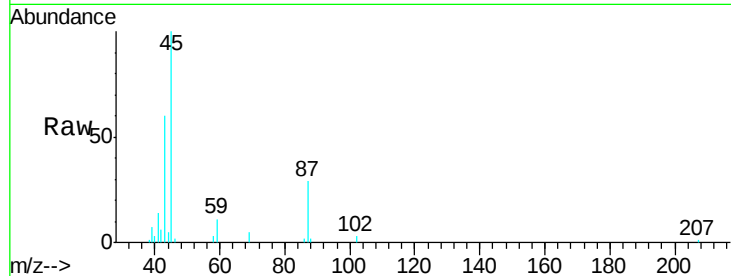


#22

Diisopropyl ether
 Concen: 4.203 ug/l
 RT: 6.31 min Scan# 722
 Delta R.T. 0.00 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

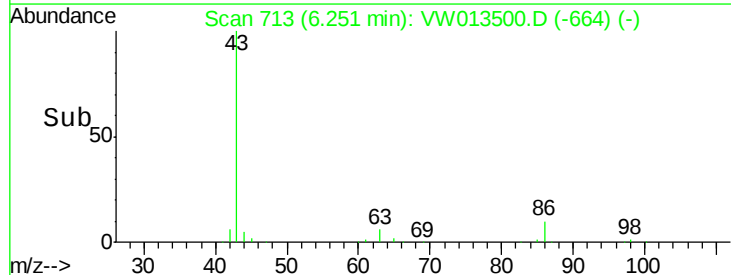
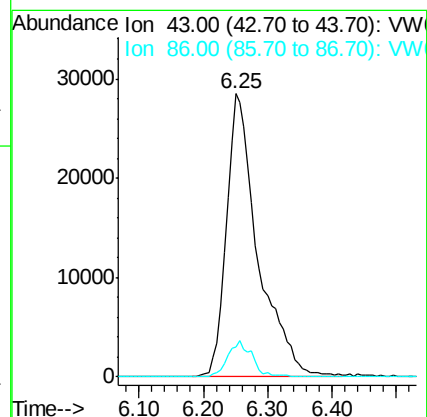
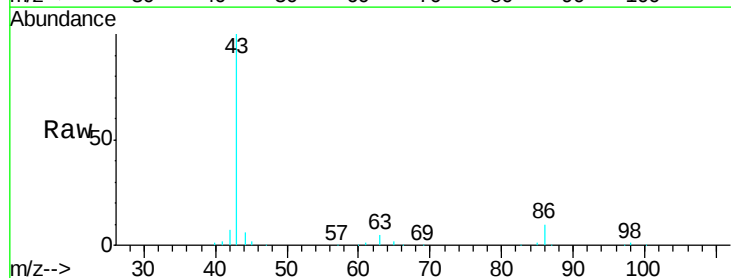
Tgt Ion:	45	Resp:	37995
Ion	Ratio	Lower	Upper
45	100		
43	57.6	43.4	65.0
87	28.7	22.1	33.1
59	11.0	9.9	14.9

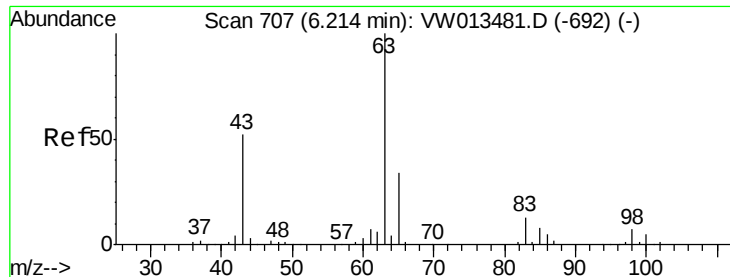


#23

Vinyl Acetate
 Concen: 18.028 ug/l
 RT: 6.25 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

Tgt Ion:	43	Resp:	97847
Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.3	12.5





#24

1,1-Dichloroethane

Concen: 4.192 ug/l

RT: 6.21 min Scan# 707

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

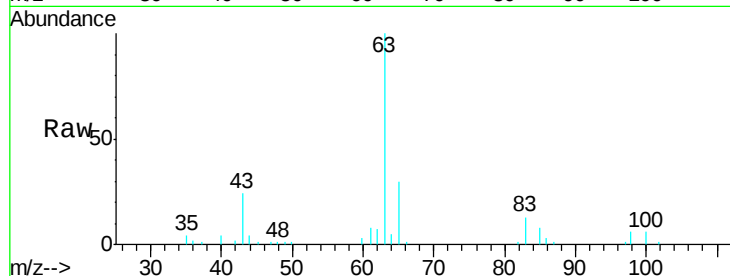
Tgt Ion: 63 Resp: 23165

Ion Ratio Lower Upper

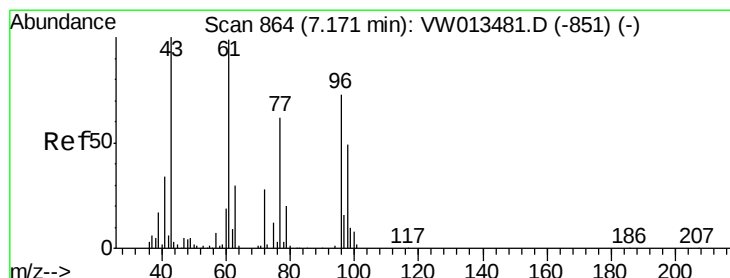
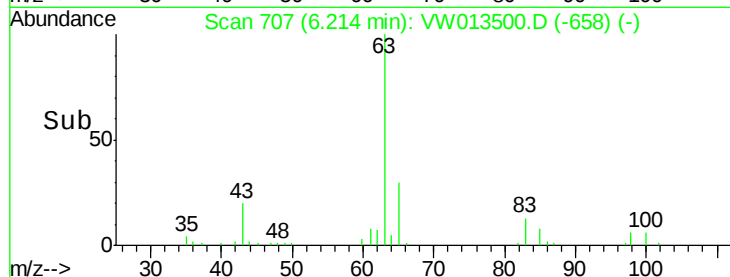
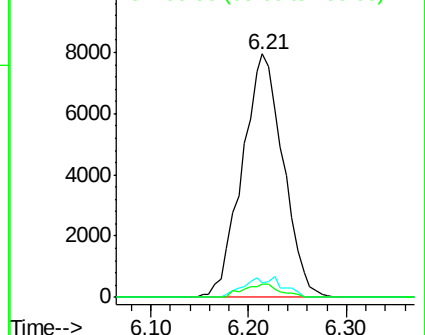
63 100

98 5.7 3.5 10.6

100 5.6 2.3 6.8



Abundance Ion 62.90 (62.60 to 63.60): VW
Ion 97.90 (97.60 to 98.60): VW
Ion 99.90 (99.60 to 100.60): VW



#25

2-Butanone

Concen: 20.219 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW013500.D

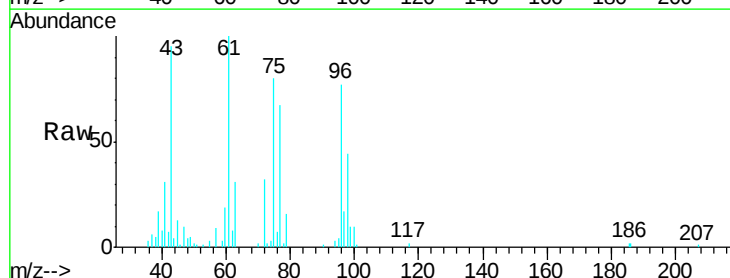
Acq: 09 Oct 2019 13:35

Tgt Ion: 43 Resp: 19381

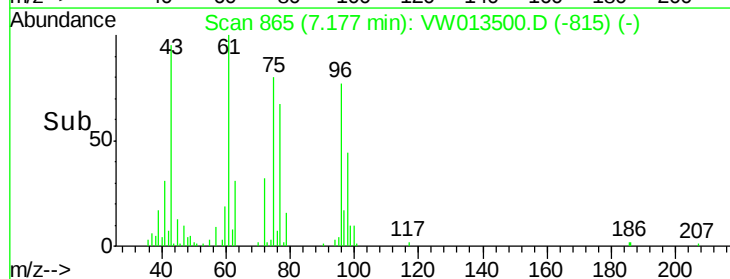
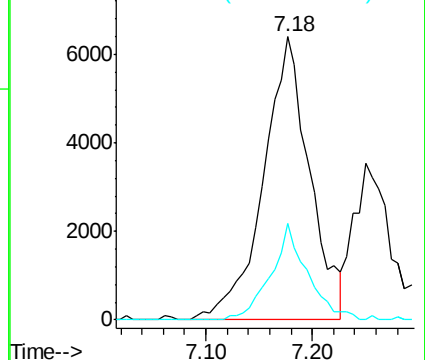
Ion Ratio Lower Upper

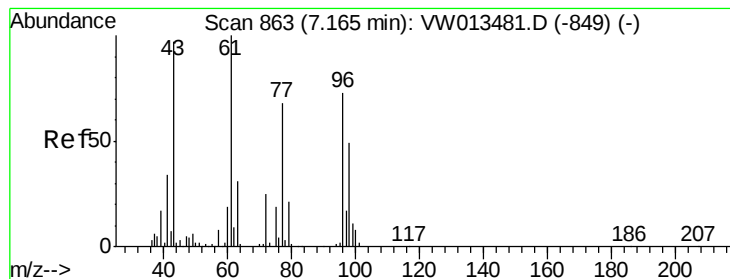
43 100

72 34.3 22.1 33.1#



Abundance Ion 43.00 (42.70 to 43.70): VW
Ion 72.00 (71.70 to 72.70): VW





#26

2,2-Dichloropropane

Concen: 5.022 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

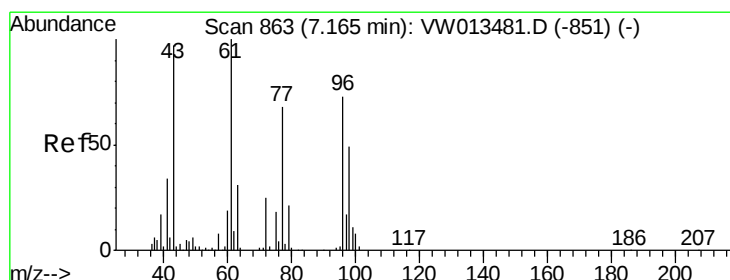
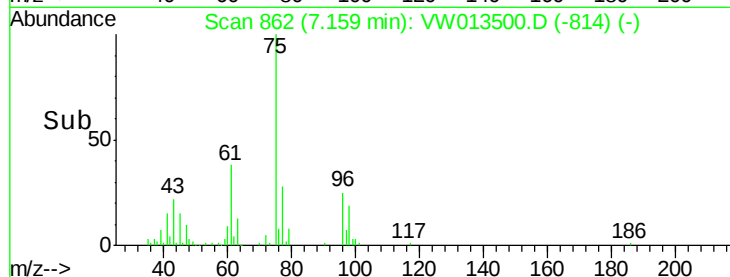
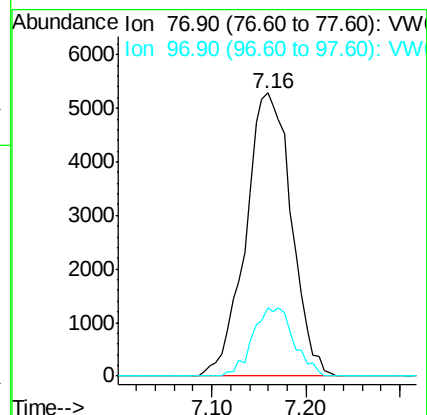
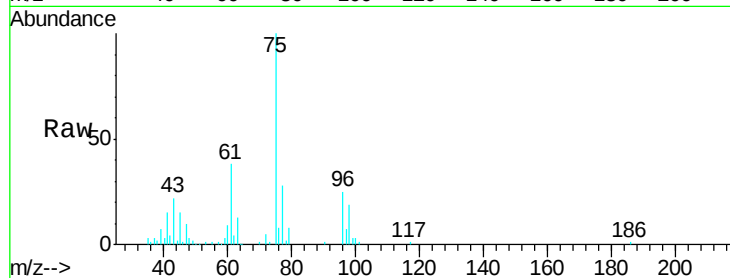
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 77 Resp: 17888

Ion Ratio Lower Upper

77 100

97 21.8 12.6 37.6



#27

cis-1,2-Dichloroethene

Concen: 4.494 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

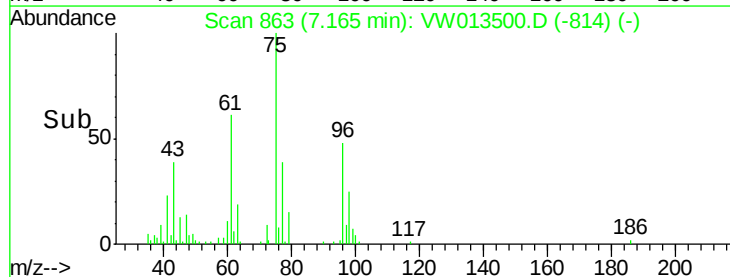
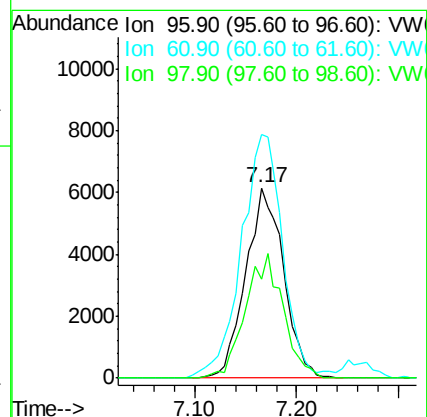
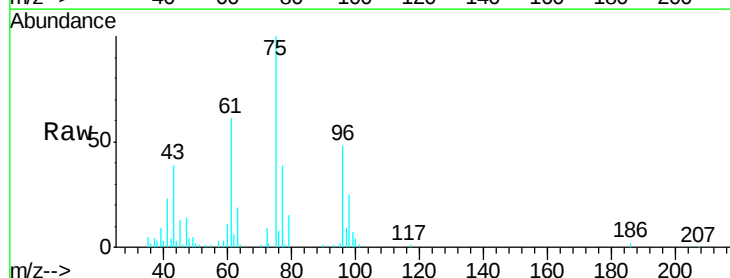
Tgt Ion: 96 Resp: 15865

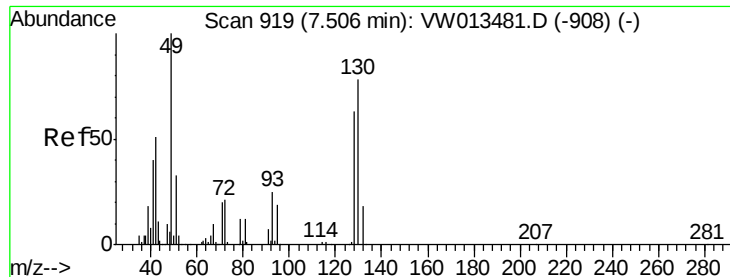
Ion Ratio Lower Upper

96 100

61 140.0 0.0 274.4

98 65.0 0.0 130.2





#28

Bromochloromethane

Concen: 6.129 ug/l

RT: 7.52 min Scan# 921

Delta R.T. 0.01 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

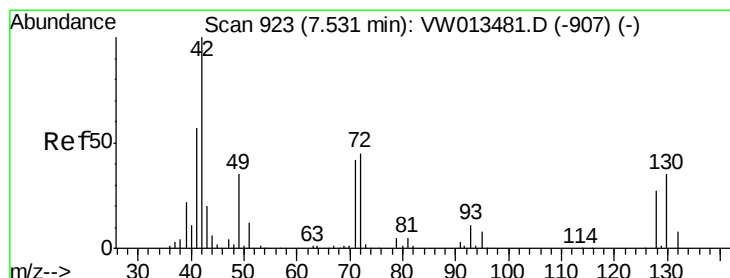
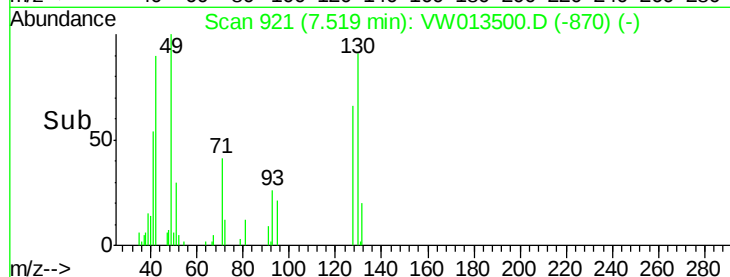
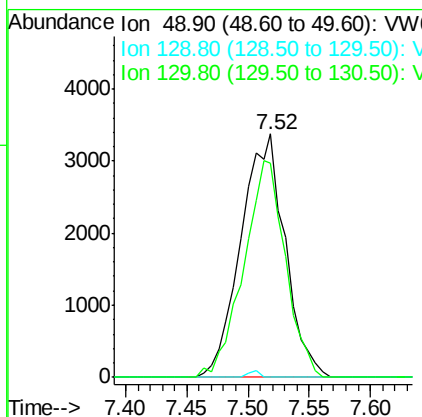
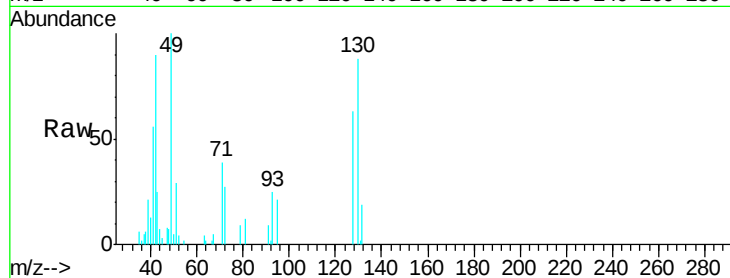
Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion:	49	Resp:	8461
Ion	Ratio	Lower	Upper
49	100		
129	0.6	0.0	1.6
130	84.2	0.0	0.0#



#29

Tetrahydrofuran

Concen: 19.616 ug/l

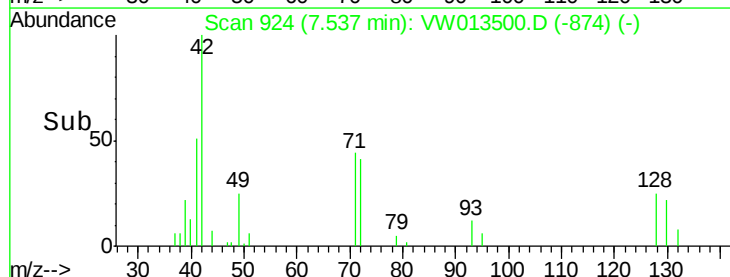
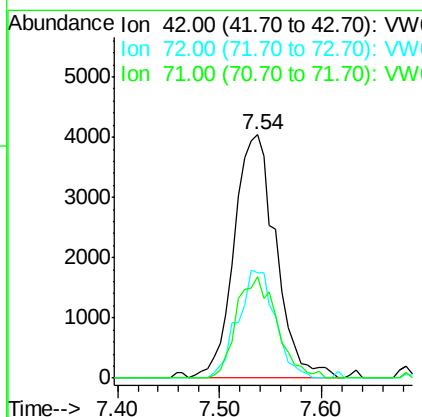
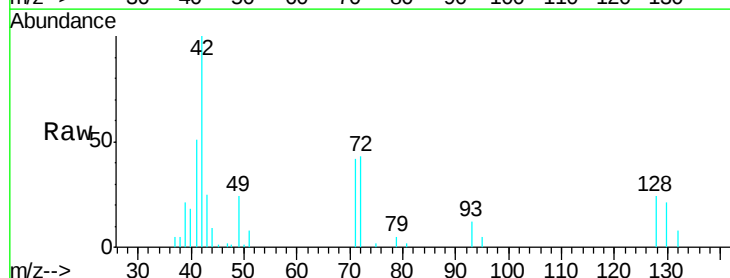
RT: 7.54 min Scan# 924

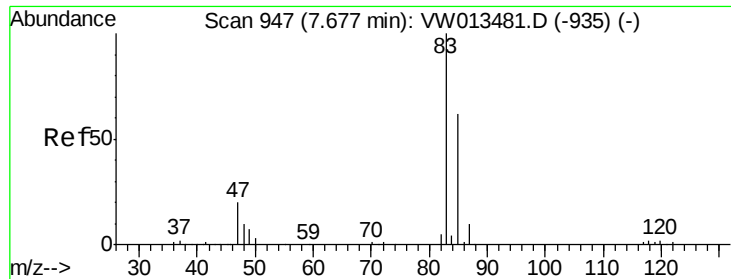
Delta R.T. 0.01 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Tgt Ion:	42	Resp:	11492
Ion	Ratio	Lower	Upper
42	100		
72	39.7	34.8	52.2
71	40.2	33.6	50.4

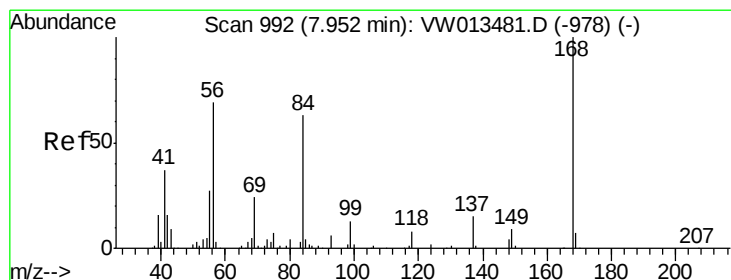
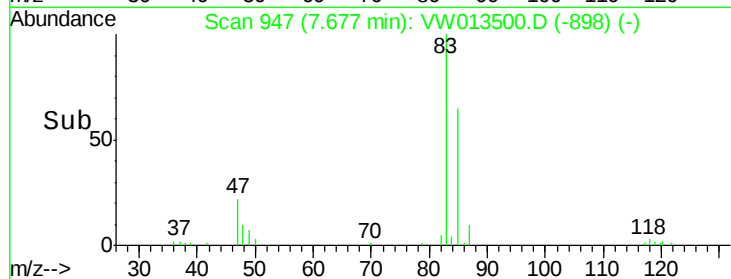
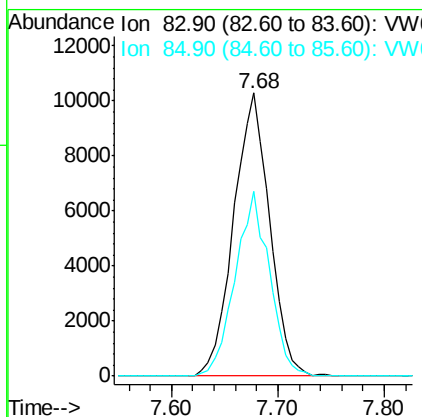
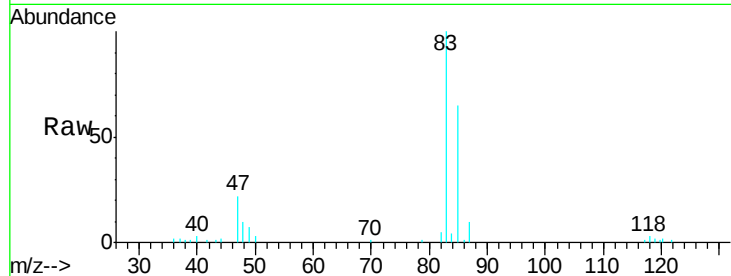




#30
Chloroform
Concen: 4.555 ug/l
RT: 7.68 min Scan# 947
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

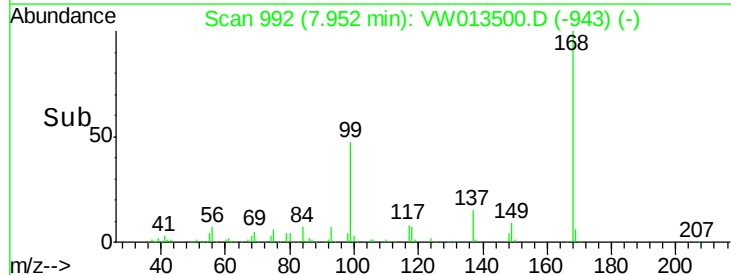
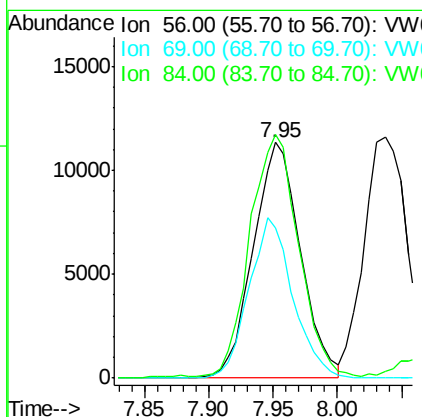
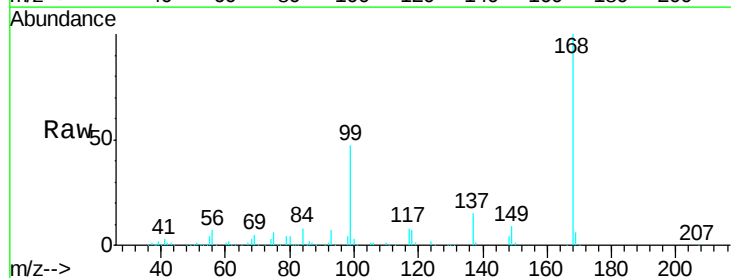
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

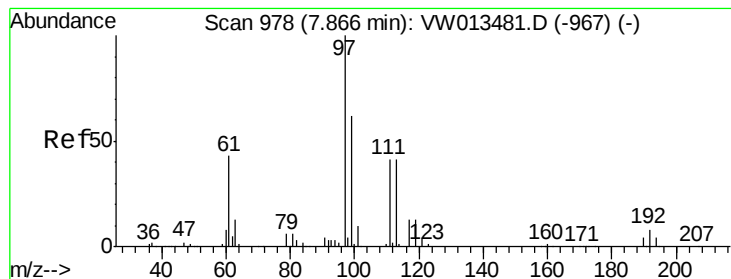
Tgt Ion: 83 Resp: 24348
Ion Ratio Lower Upper
83 100
85 65.2 49.4 74.2



#31
Cyclohexane
Concen: 4.923 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

Tgt Ion: 56 Resp: 28794
Ion Ratio Lower Upper
56 100
69 63.9 28.0 42.0#
84 102.8 71.8 107.6





#32

1,1,1-Trichloroethane

Concen: 4.183 ug/l

RT: 7.87 min Scan# 978

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

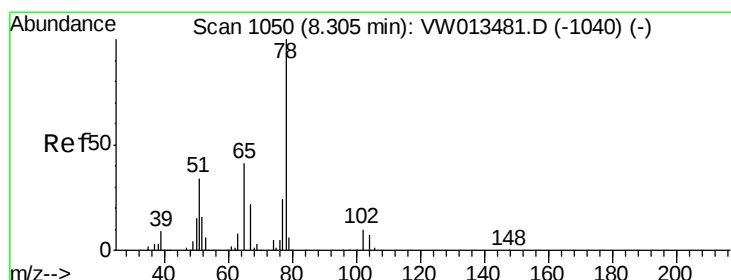
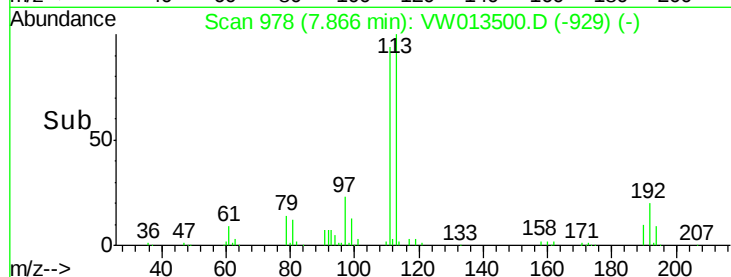
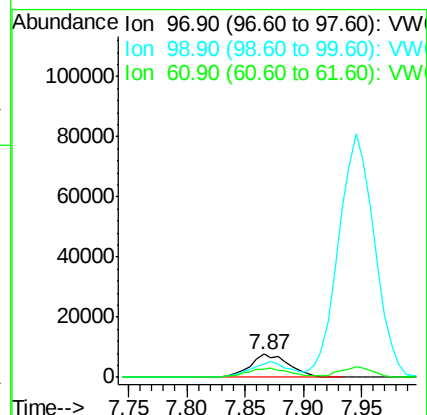
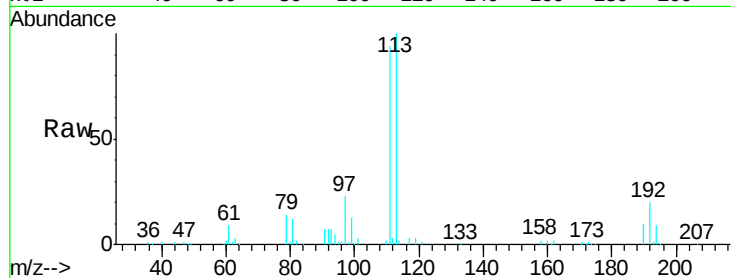
Tgt Ion: 97 Resp: 18172

Ion Ratio Lower Upper

97 100

99 68.0 52.3 78.5

61 42.4 33.7 50.5



#33

1,2-Dichloroethane-d4

Concen: 47.801 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW013500.D

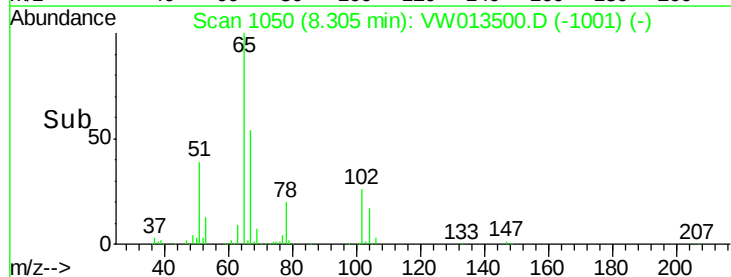
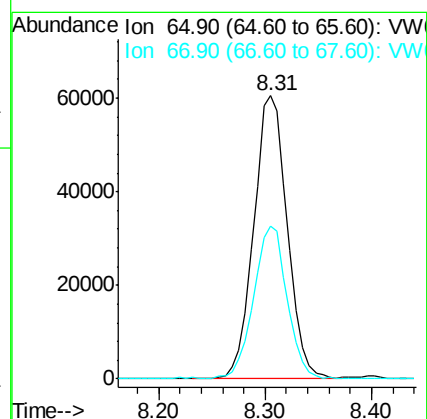
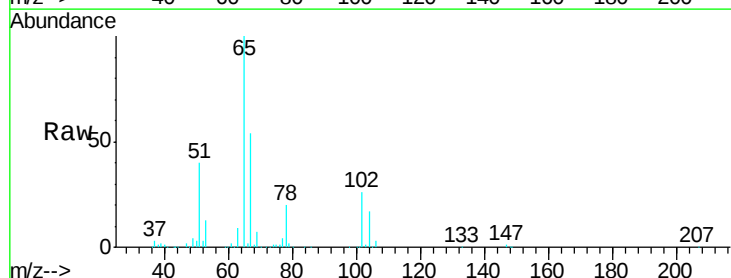
Acq: 09 Oct 2019 13:35

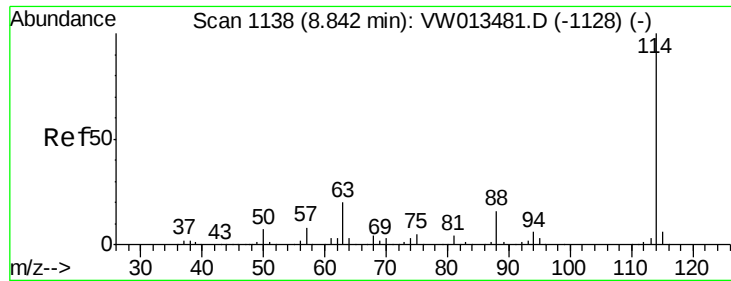
Tgt Ion: 65 Resp: 133602

Ion Ratio Lower Upper

65 100

67 53.9 0.0 109.4

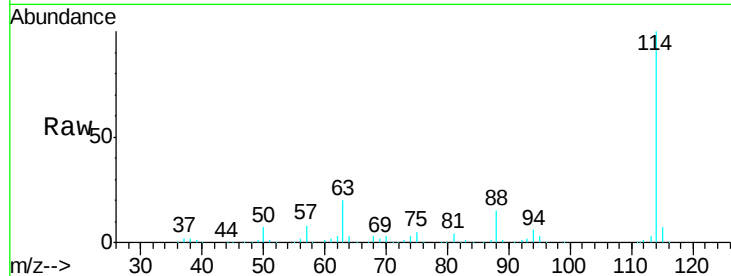




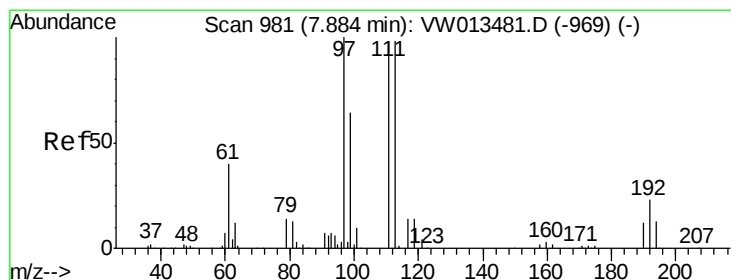
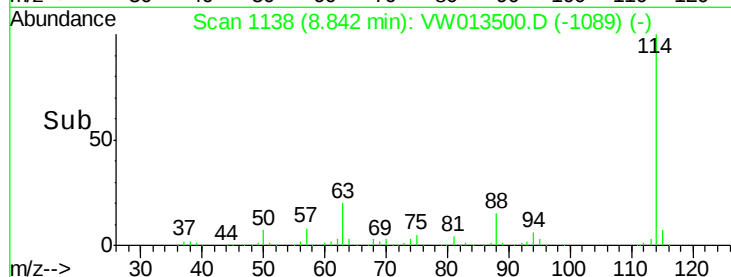
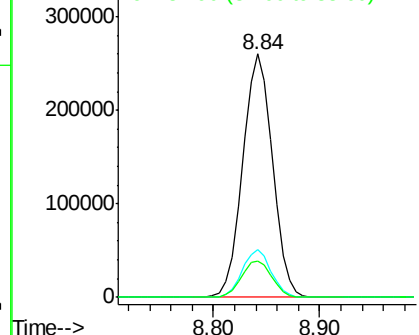
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion:114 Resp: 511449
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 40.4
 88 14.8 0.0 31.4

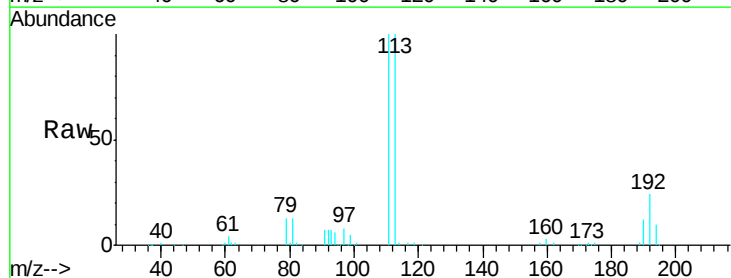


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

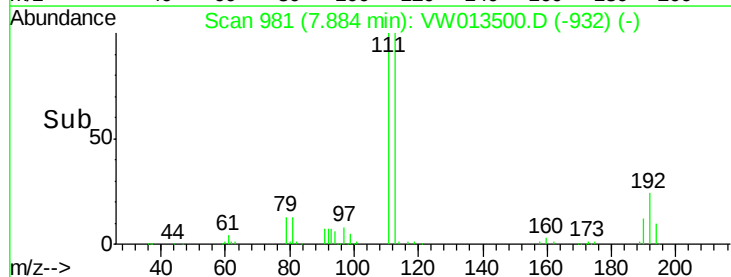
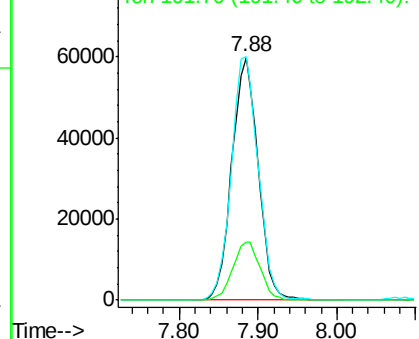


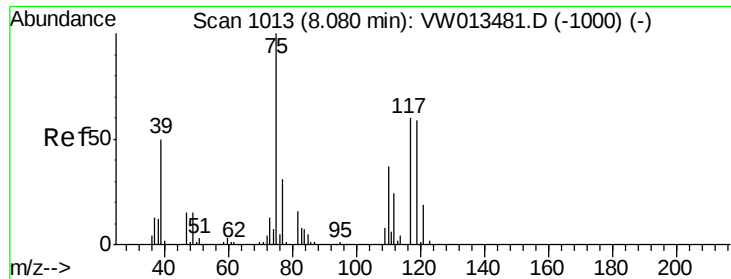
#35
 Dibromofluoromethane
 Concen: 48.578 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

Tgt Ion:113 Resp: 138764
 Ion Ratio Lower Upper
 113 100
 111 102.4 82.3 123.5
 192 24.8 19.3 28.9



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

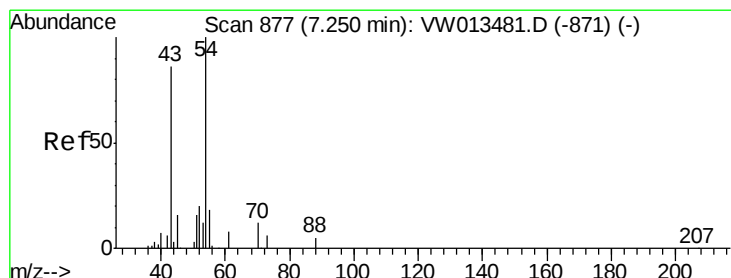
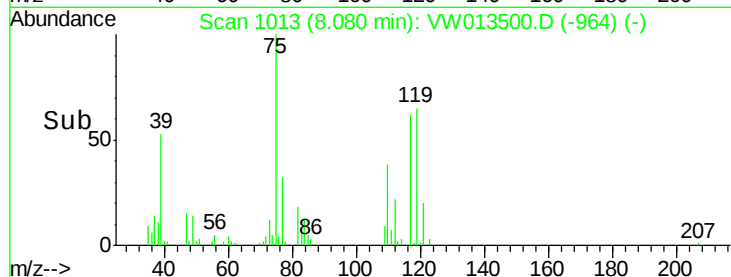
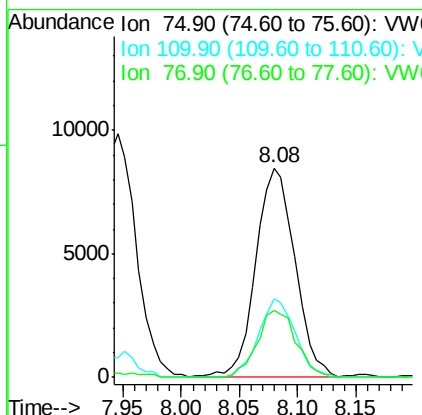
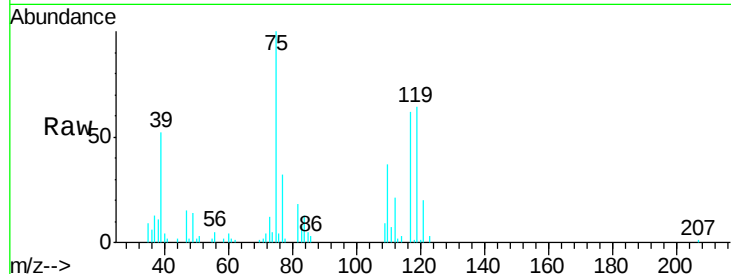




#36
 1,1-Dichloropropene
 Concen: 4.302 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. 0.00 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

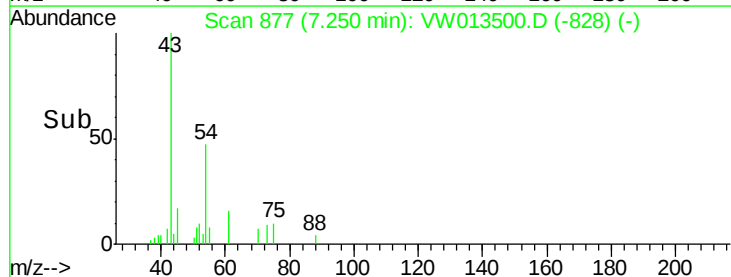
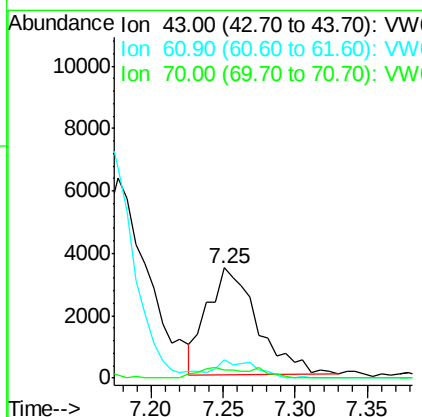
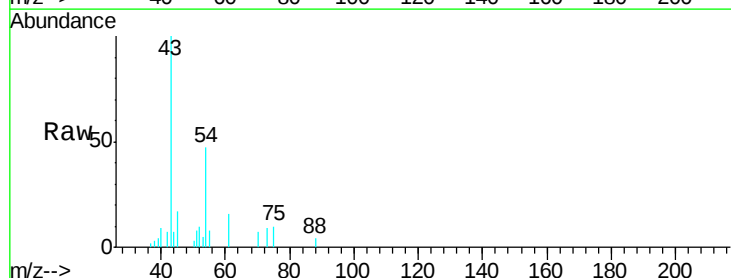
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

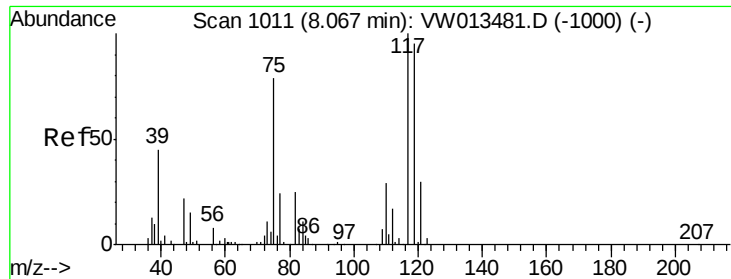
Tgt Ion: 75 Resp: 19905
 Ion Ratio Lower Upper
 75 100
 110 34.8 18.4 55.2
 77 31.8 25.0 37.4



#37
 Ethyl Acetate
 Concen: 3.928 ug/l
 RT: 7.25 min Scan# 877
 Delta R.T. 0.00 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

Tgt Ion: 43 Resp: 8246
 Ion Ratio Lower Upper
 43 100
 61 12.8 10.9 16.3
 70 7.4 9.2 13.8#

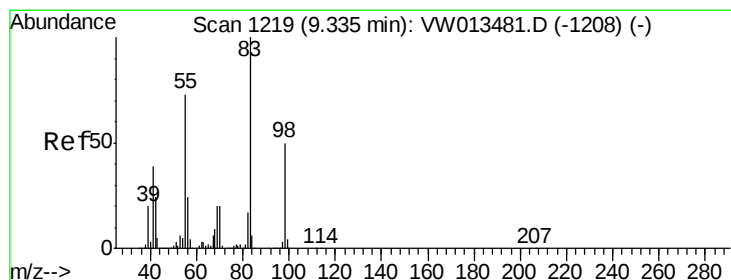
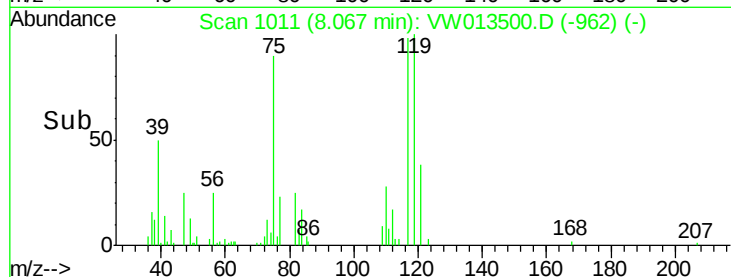
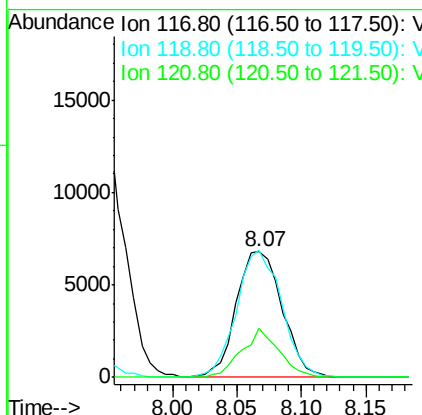
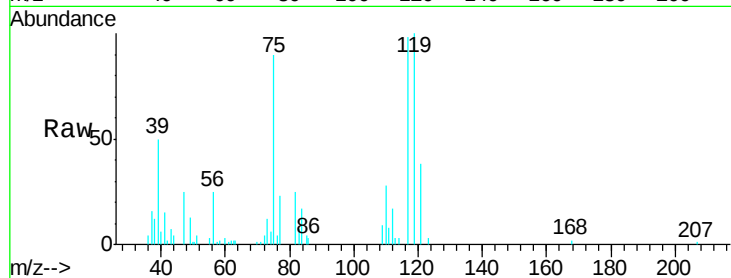




#38
Carbon Tetrachloride
Concen: 4.108 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

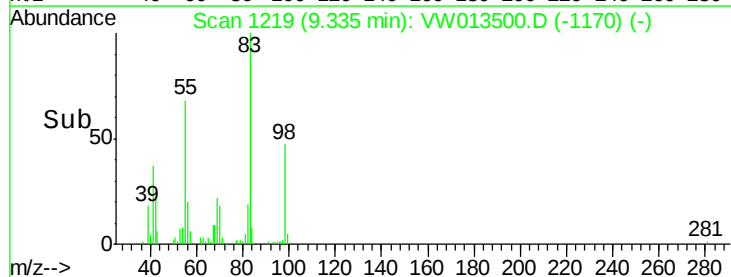
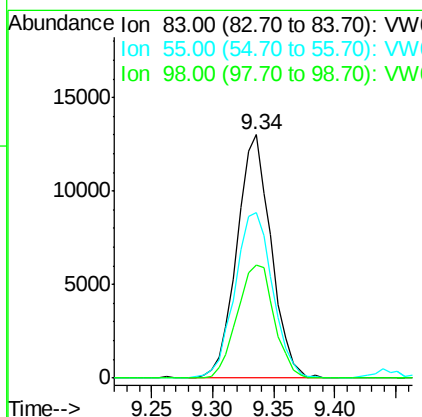
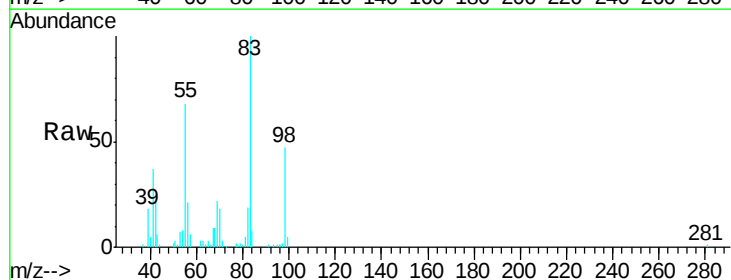
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

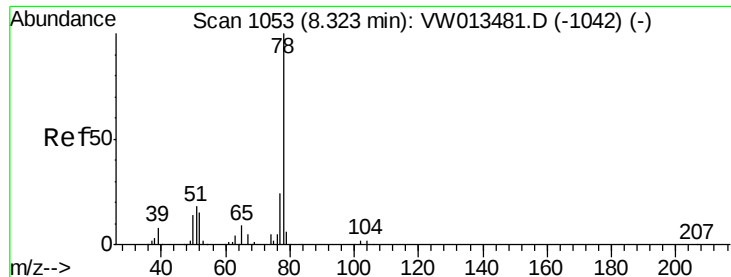
Tgt Ion: 117 Resp: 16850
Ion Ratio Lower Upper
117 100
119 101.6 76.3 114.5
121 38.8 23.6 35.4#



#39
Methylcyclohexane
Concen: 4.212 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

Tgt Ion: 83 Resp: 25245
Ion Ratio Lower Upper
83 100
55 68.2 58.2 87.4
98 46.5 39.8 59.6





#40

Benzene

Concen: 4.237 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

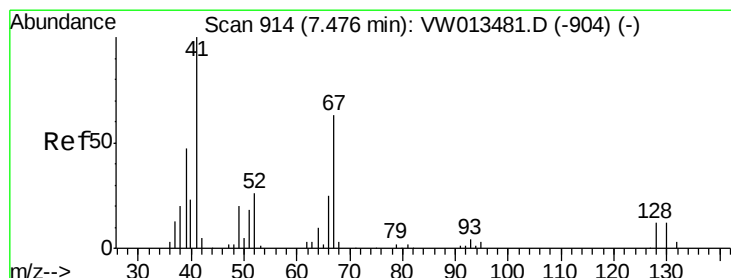
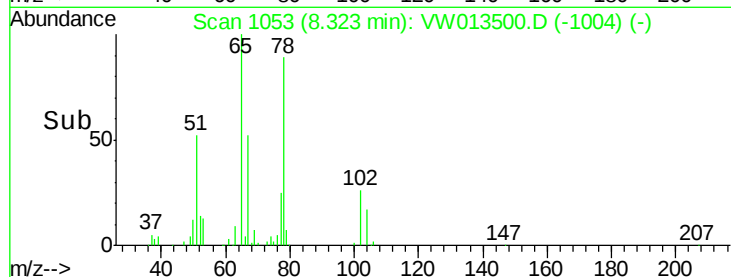
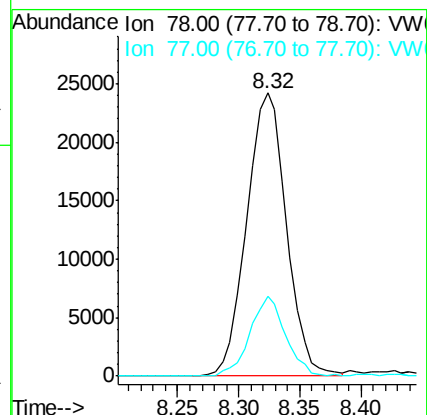
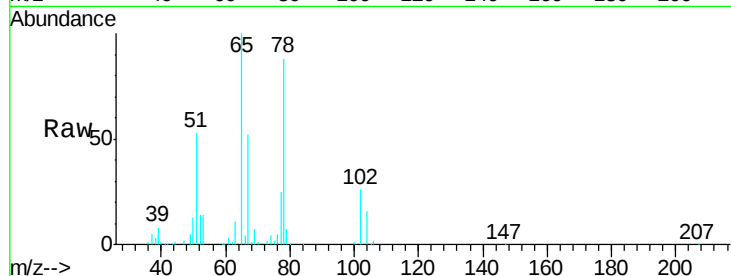
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 78 Resp: 54724

Ion Ratio Lower Upper

78 100

77 28.2 19.2 28.8



#41

Methacrylonitrile

Concen: 3.342 ug/l

RT: 7.48 min Scan# 914

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Tgt Ion: 41 Resp: 3989

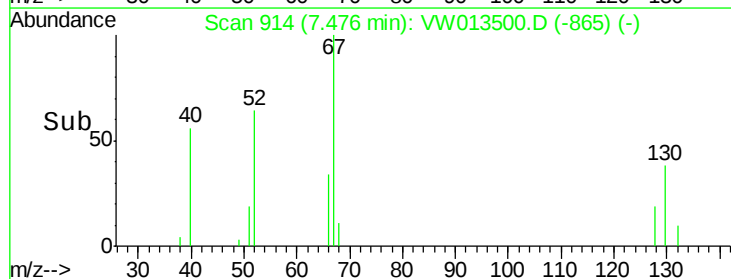
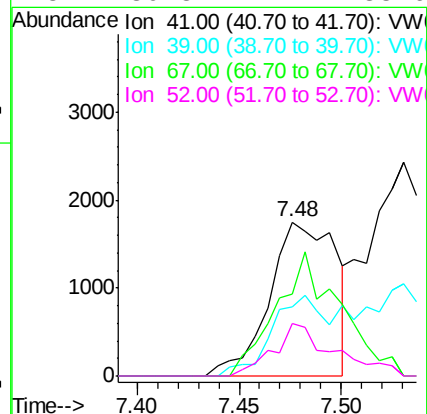
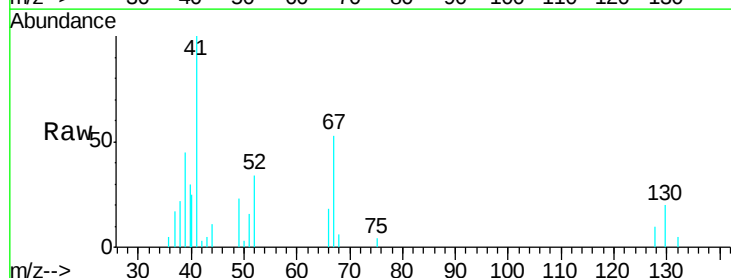
Ion Ratio Lower Upper

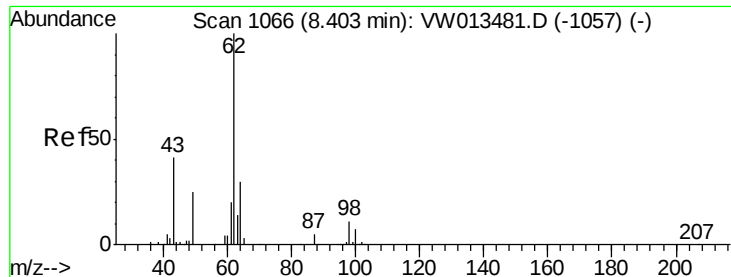
41 100

39 42.0 39.4 59.0

67 77.4 57.0 85.6

52 30.8 22.4 33.6





#42

1,2-Dichloroethane

Concen: 4.391 ug/l

RT: 8.40 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

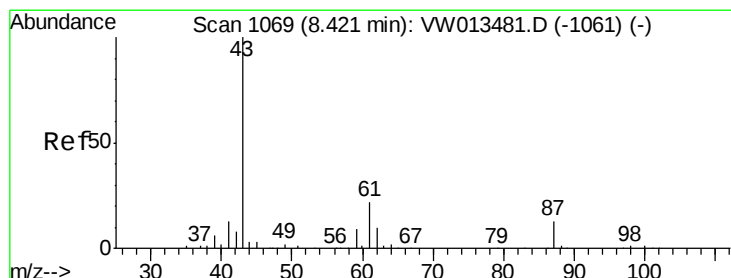
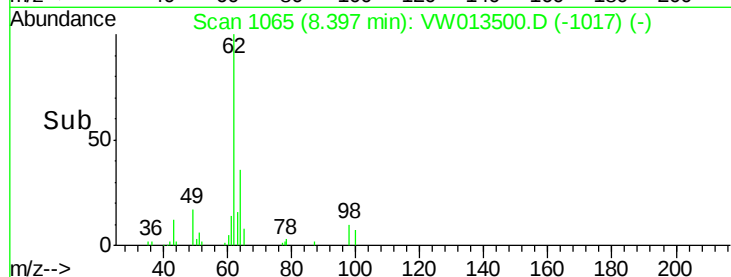
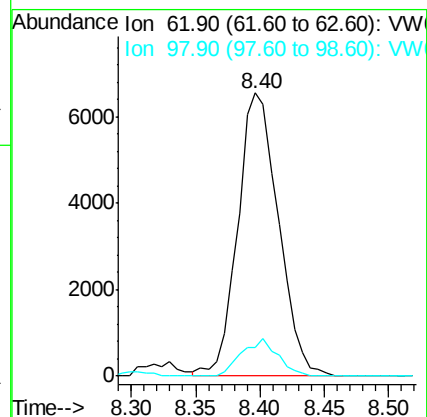
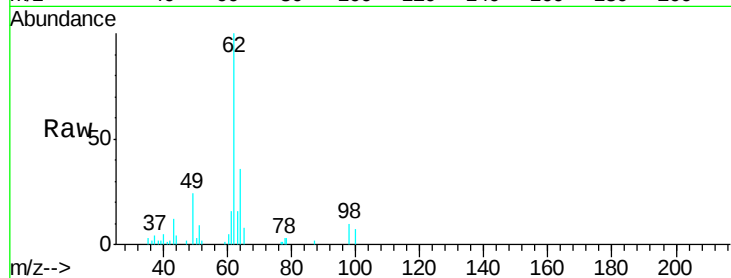
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 62 Resp: 14333

Ion Ratio Lower Upper

62 100

98 11.8 0.0 21.4



#43

Isopropyl Acetate

Concen: 4.035 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

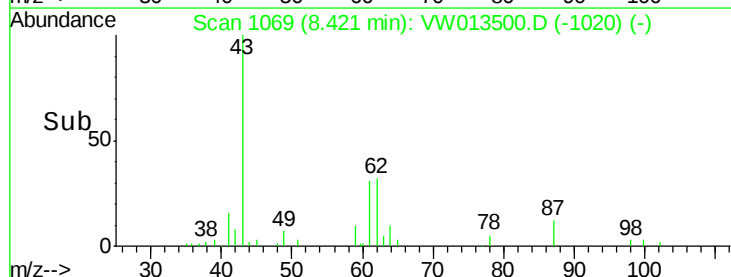
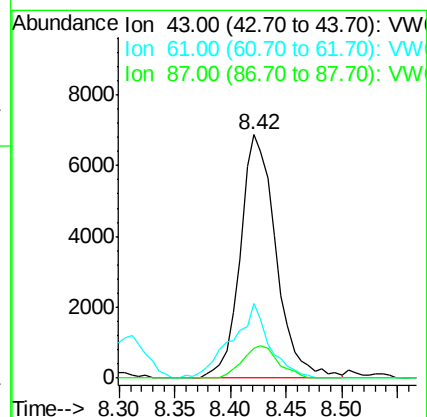
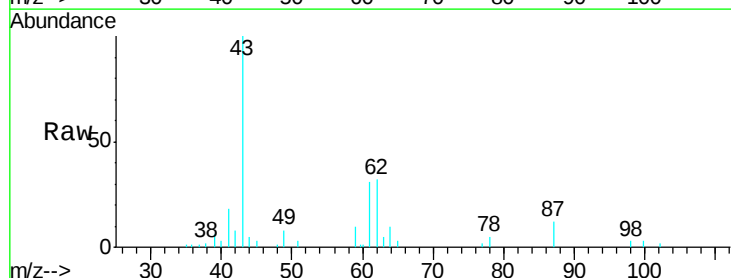
Tgt Ion: 43 Resp: 15303

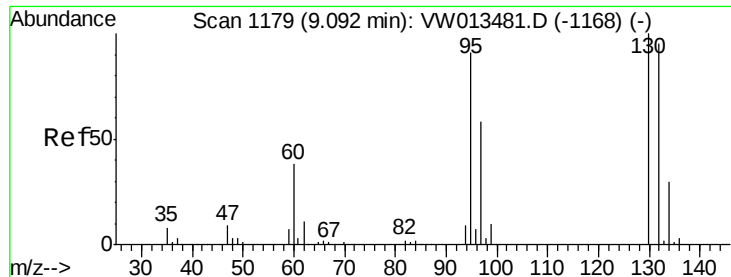
Ion Ratio Lower Upper

43 100

61 32.2 25.4 38.2

87 13.2 10.8 16.2





#44

Trichloroethene

Concen: 4.167 ug/l

RT: 9.10 min Scan# 1180

Delta R.T. 0.01 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

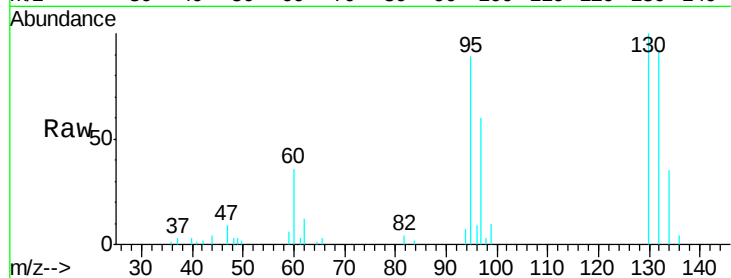
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion:130 Resp: 15354

Ion Ratio Lower Upper

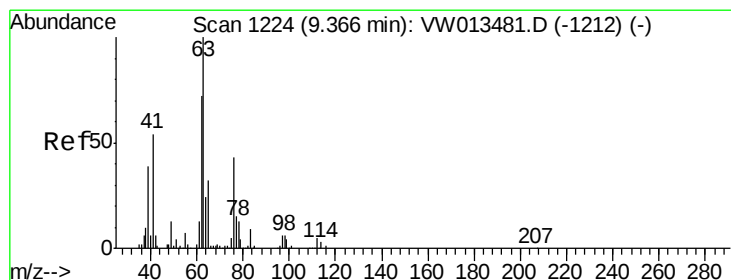
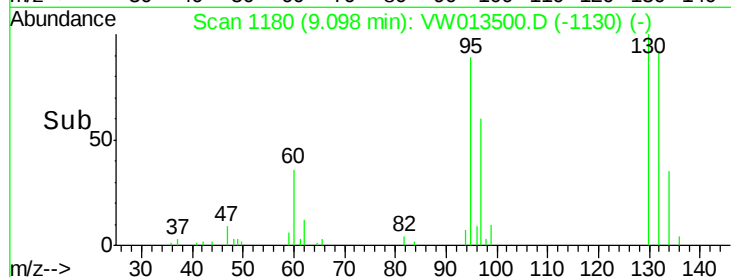
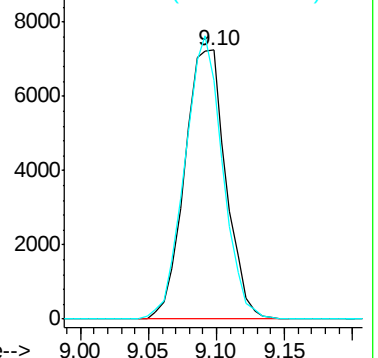
130 100

95 88.8 0.0 182.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW



#45

1,2-Dichloropropane

Concen: 4.329 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW013500.D

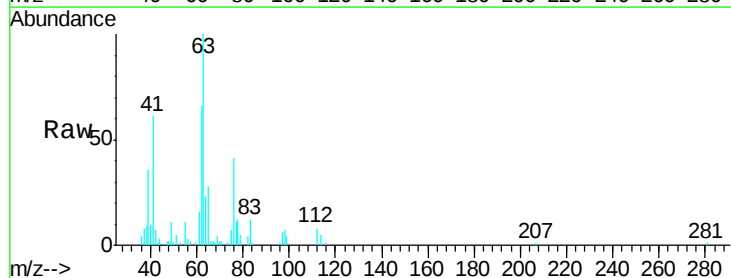
Acq: 09 Oct 2019 13:35

Tgt Ion: 63 Resp: 13419

Ion Ratio Lower Upper

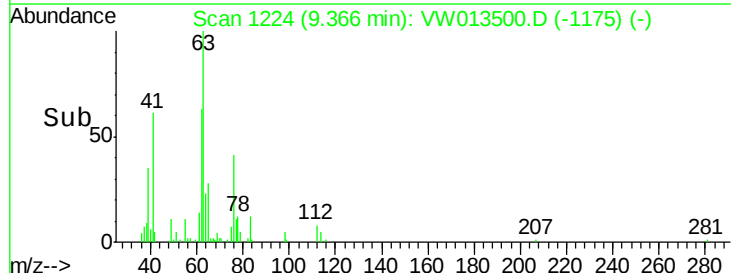
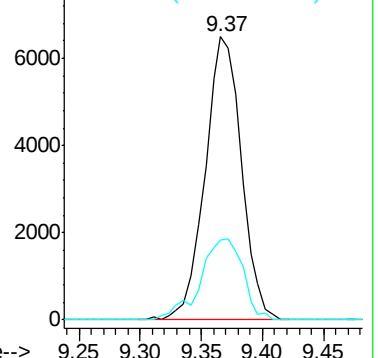
63 100

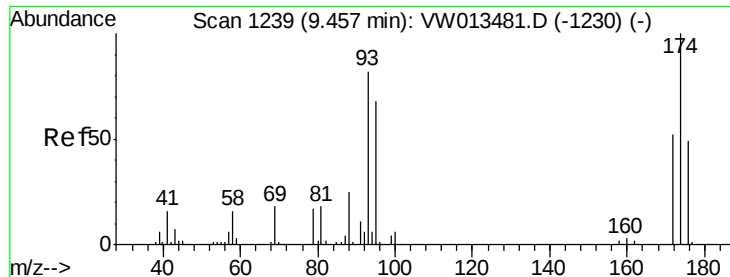
65 28.4 25.8 38.6



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW

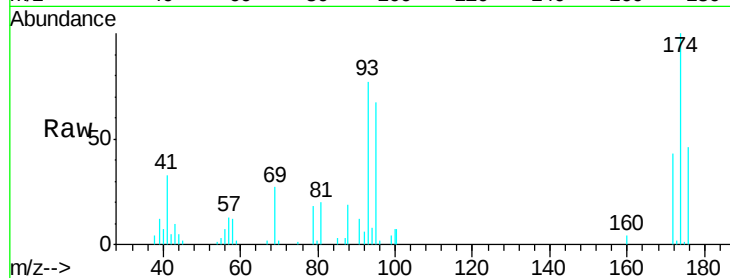




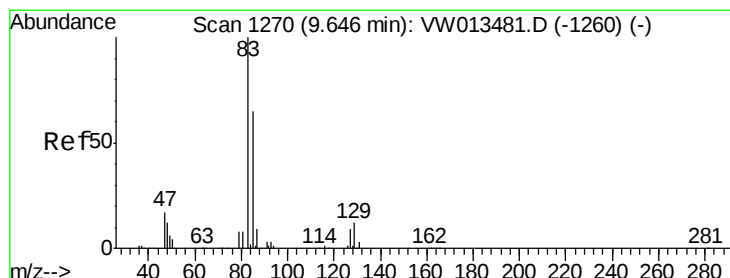
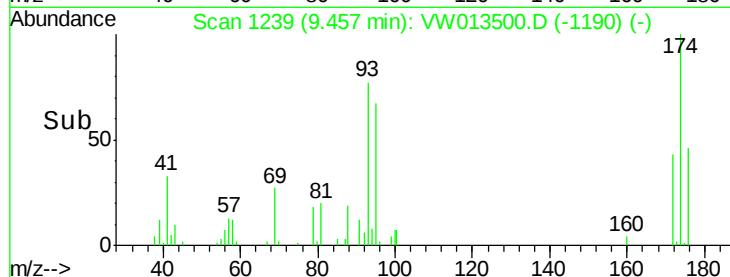
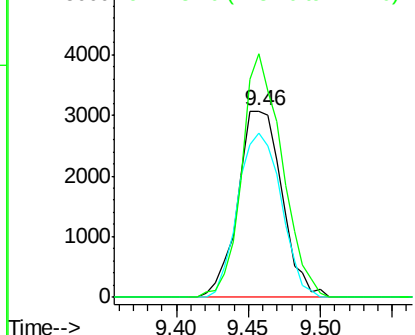
#46
Dibromomethane
Concen: 4.225 ug/l
RT: 9.46 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 93 Resp: 6524
Ion Ratio Lower Upper
93 100
95 86.8 68.0 102.0
174 119.0 97.0 145.6

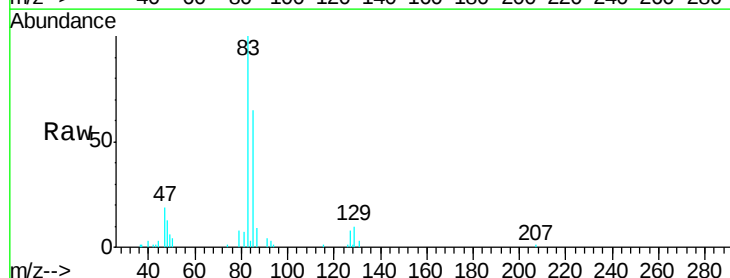


Abundance Ion 92.80 (92.50 to 93.50): VW
Ion 94.80 (94.50 to 95.50): VW
Ion 173.70 (173.40 to 174.40): V

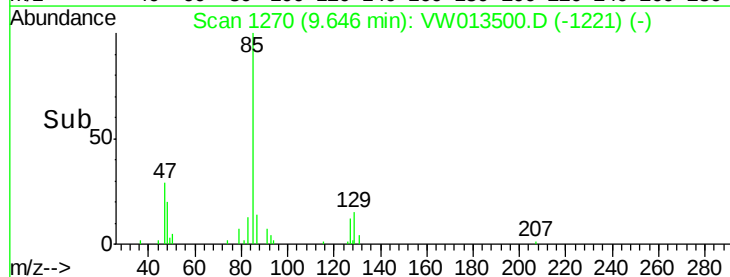
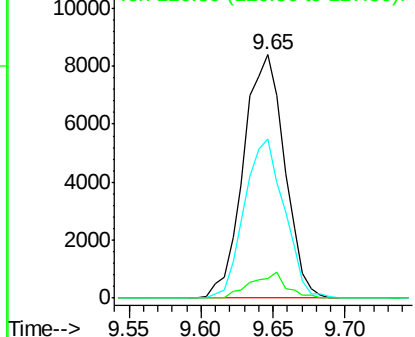


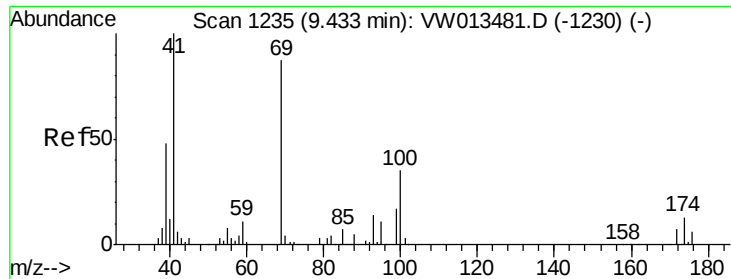
#47
Bromodichloromethane
Concen: 4.312 ug/l
RT: 9.65 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

Tgt Ion: 83 Resp: 16552
Ion Ratio Lower Upper
83 100
85 65.3 51.9 77.9
127 8.0 7.4 11.2



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

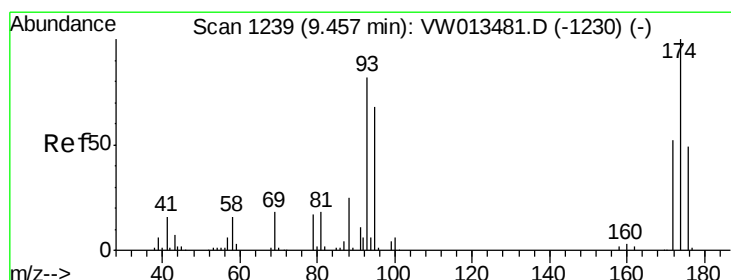
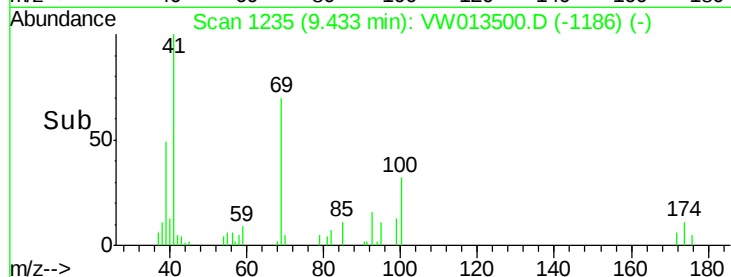
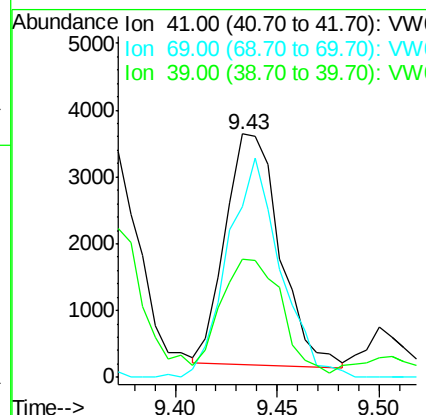
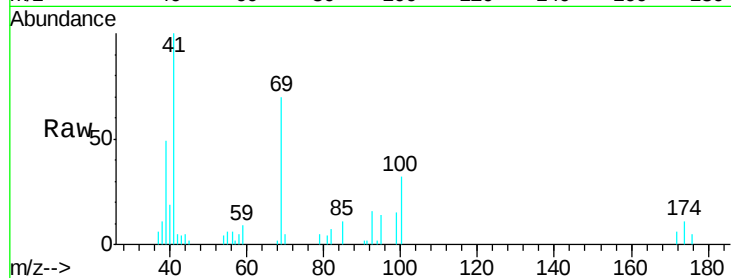




#48
Methyl methacrylate
Concen: 3.433 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

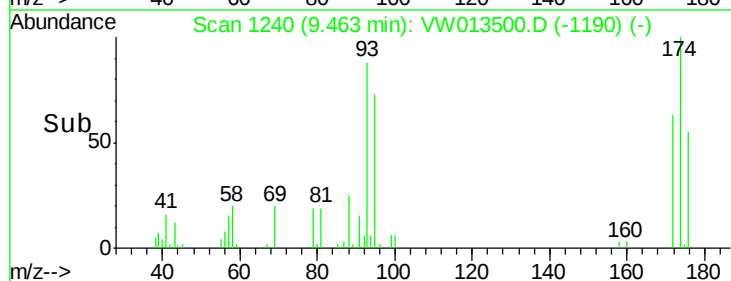
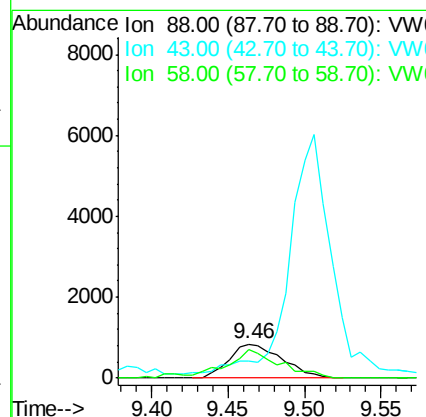
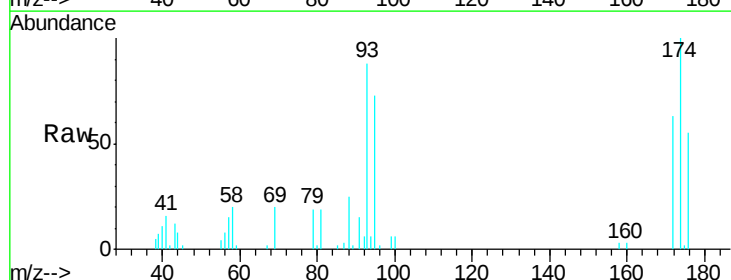
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

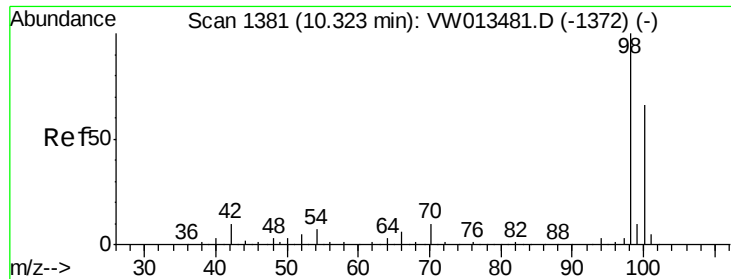
Tgt Ion: 41 Resp: 6413
Ion Ratio Lower Upper
41 100
69 92.3 70.4 105.6
39 54.1 37.3 55.9



#49
1,4-Dioxane
Concen: 74.051 ug/l
RT: 9.46 min Scan# 1240
Delta R.T. 0.01 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

Tgt Ion: 88 Resp: 2008
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 82.9 60.0 90.0

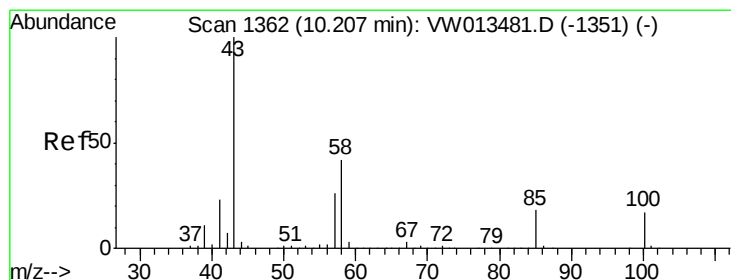
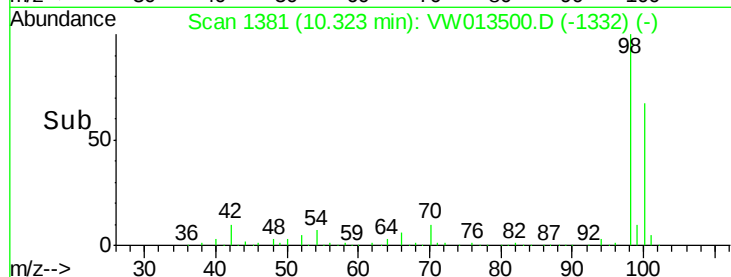
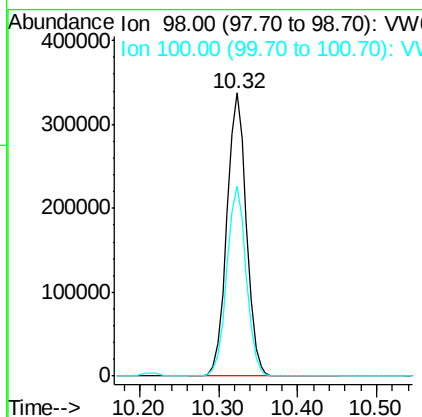
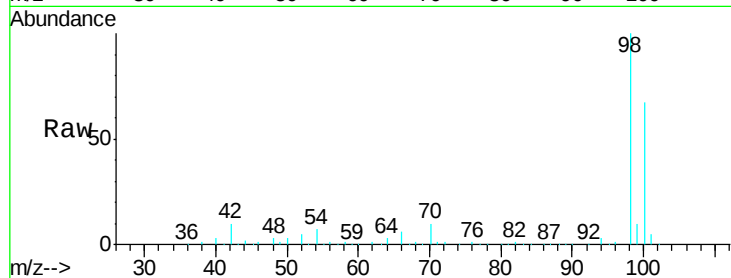




#50
Toluene-d8
Concen: 48.018 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

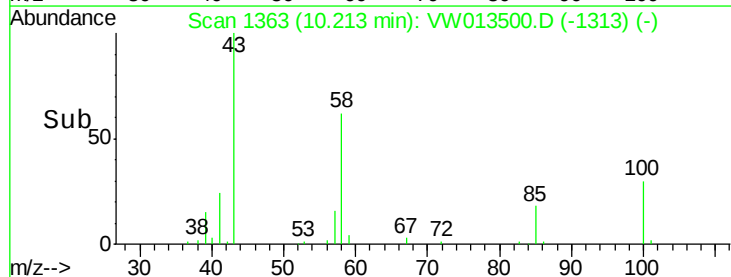
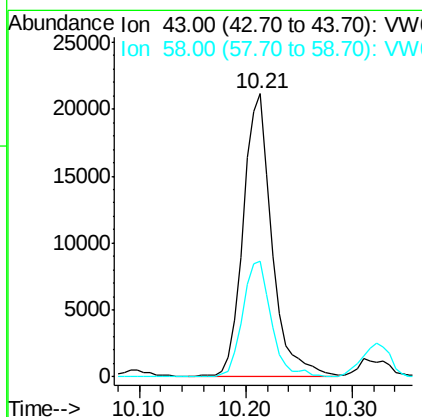
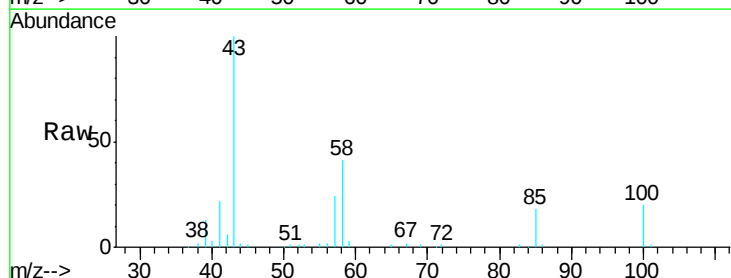
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

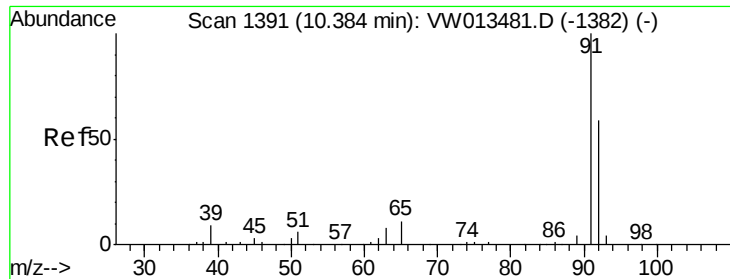
Tgt Ion: 98 Resp: 576426
Ion Ratio Lower Upper
98 100
100 66.9 53.2 79.8



#51
4-Methyl-2-Pentanone
Concen: 20.172 ug/l
RT: 10.21 min Scan# 1363
Delta R.T. 0.01 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

Tgt Ion: 43 Resp: 40220
Ion Ratio Lower Upper
43 100
58 40.4 32.8 49.2





#52

Toluene

Concen: 4.261 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

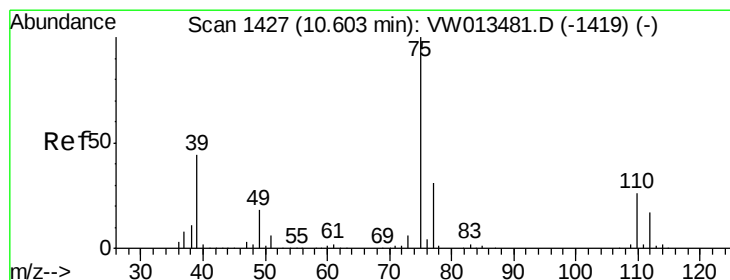
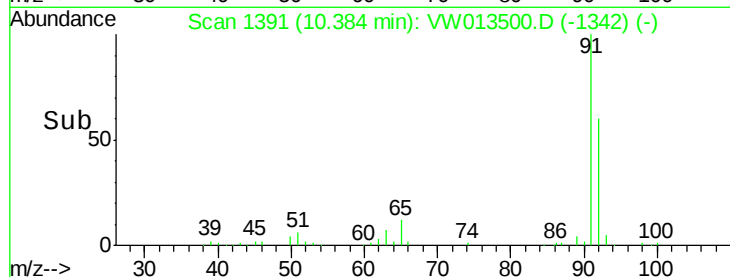
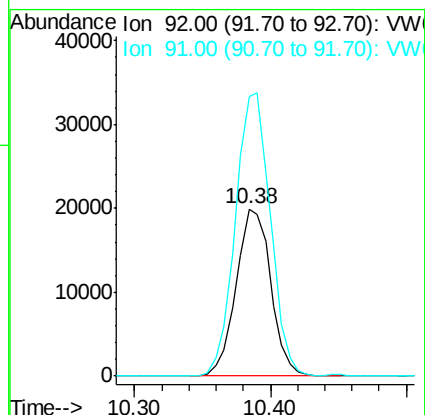
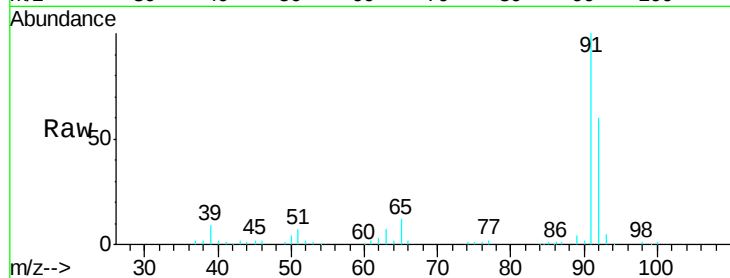
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 92 Resp: 35447

Ion Ratio Lower Upper

92 100

91 171.2 134.8 202.2



#53

t-1,3-Dichloropropene

Concen: 3.985 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. 0.01 min

Lab File: VW013500.D

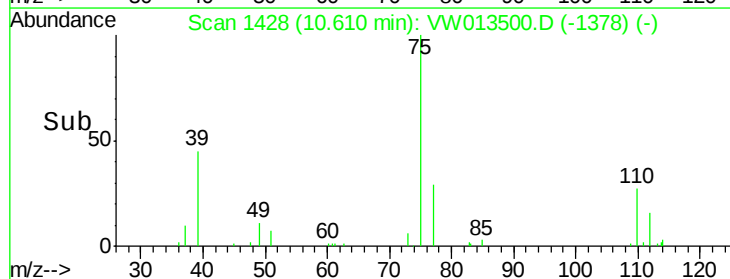
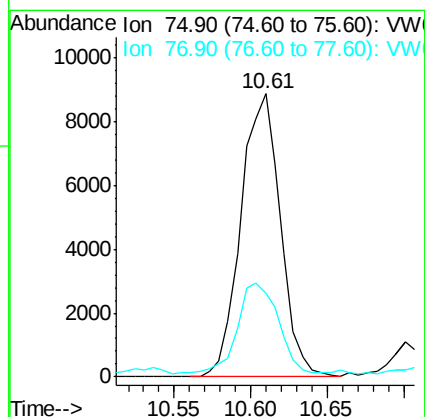
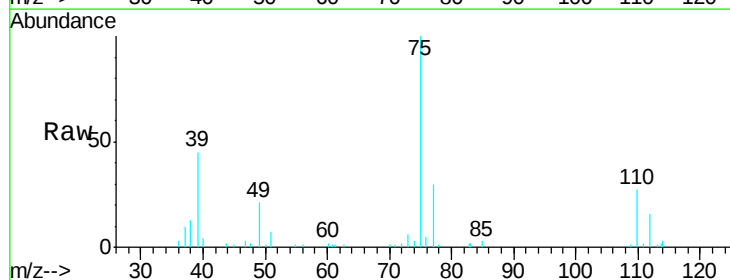
Acq: 09 Oct 2019 13:35

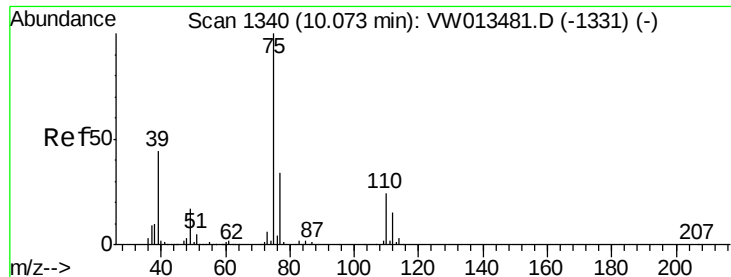
Tgt Ion: 75 Resp: 15895

Ion Ratio Lower Upper

75 100

77 28.0 25.2 37.8

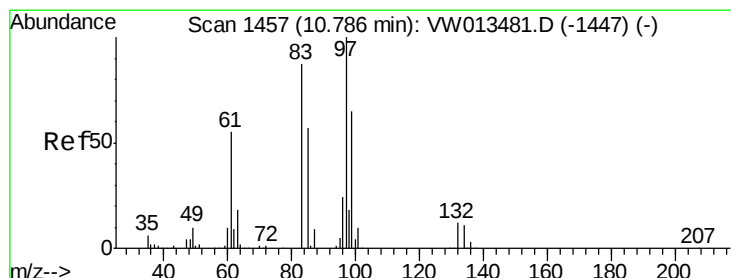
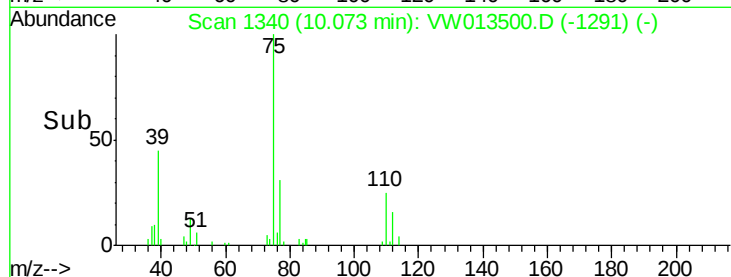
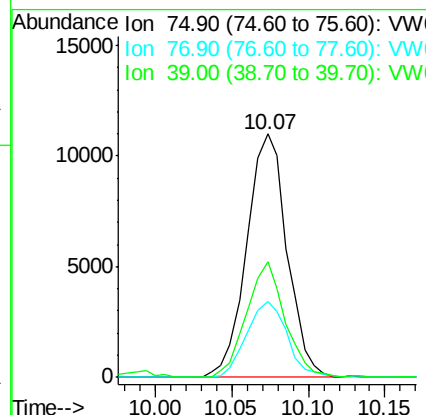
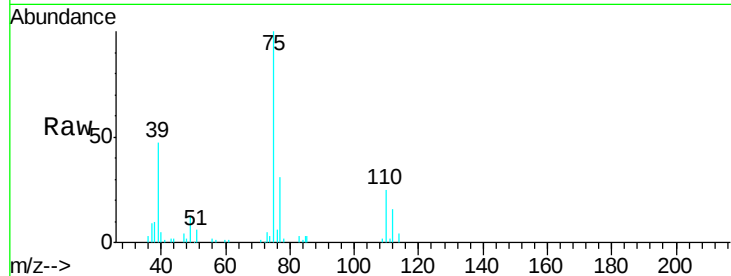




#54
 cis-1,3-Dichloropropene
 Concen: 4.161 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

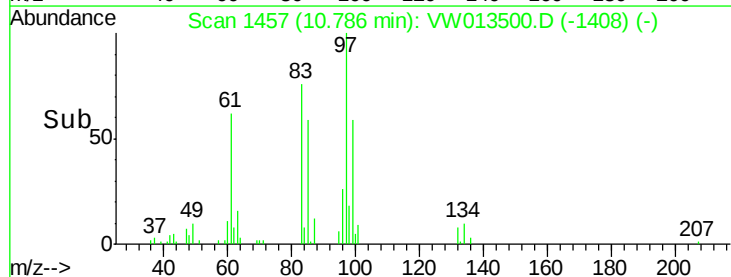
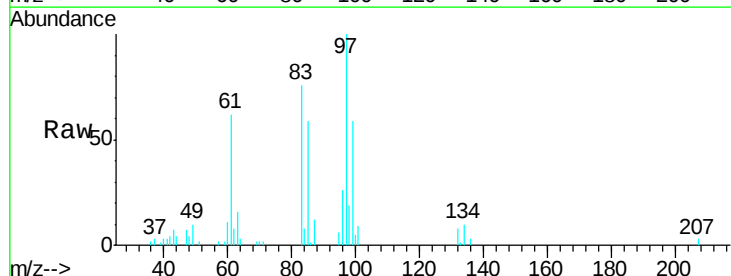
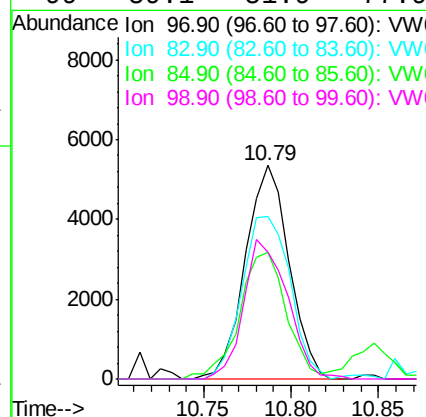
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

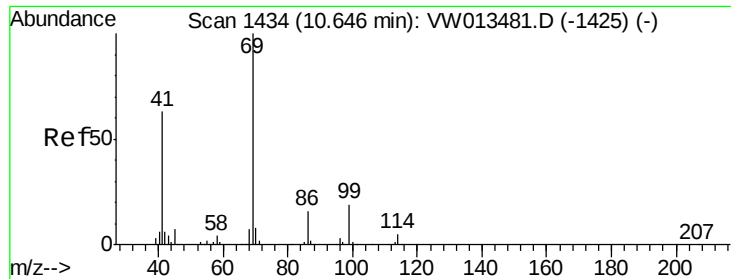
Tgt Ion: 75 Resp: 20108
 Ion Ratio Lower Upper
 75 100
 77 31.4 27.0 40.4
 39 47.3 35.0 52.4



#55
 1,1,2-Trichloroethane
 Concen: 4.019 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

Tgt Ion: 97 Resp: 9315
 Ion Ratio Lower Upper
 97 100
 83 76.1 69.8 104.8
 85 56.9 45.4 68.0
 99 59.1 51.9 77.9





#56

Ethyl methacrylate

Concen: 3.627 ug/l

RT: 10.65 min Scan# 1434

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

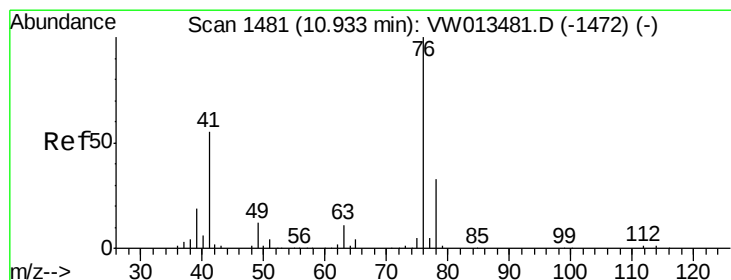
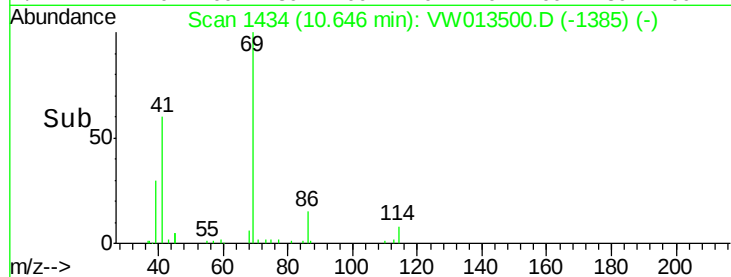
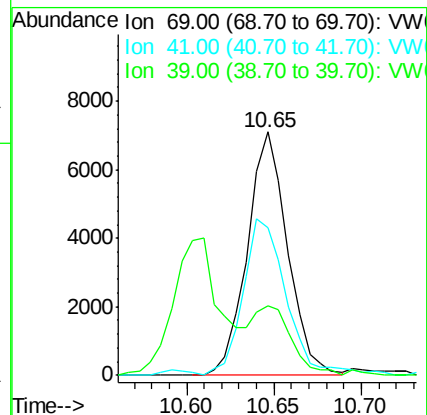
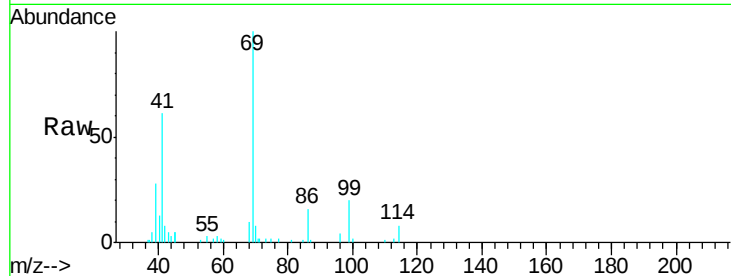
Tgt Ion: 69 Resp: 11324

Ion Ratio Lower Upper

69 100

41 69.7 51.8 77.6

39 26.4 21.7 32.5



#57

1,3-Dichloropropane

Concen: 4.241 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. 0.00 min

Lab File: VW013500.D

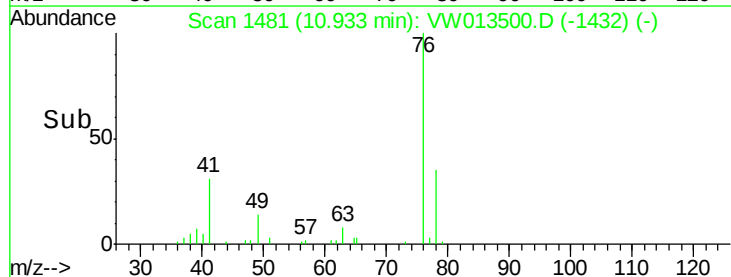
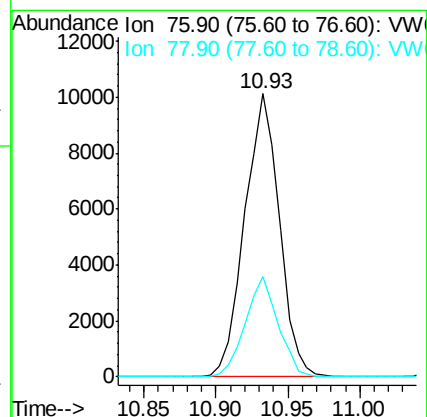
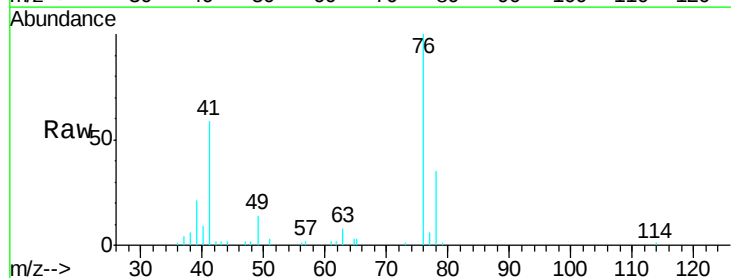
Acq: 09 Oct 2019 13:35

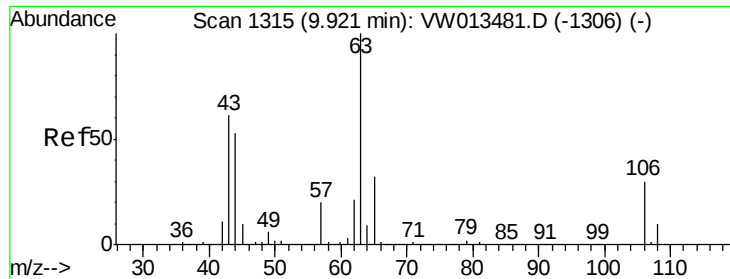
Tgt Ion: 76 Resp: 16880

Ion Ratio Lower Upper

76 100

78 33.4 25.9 38.9

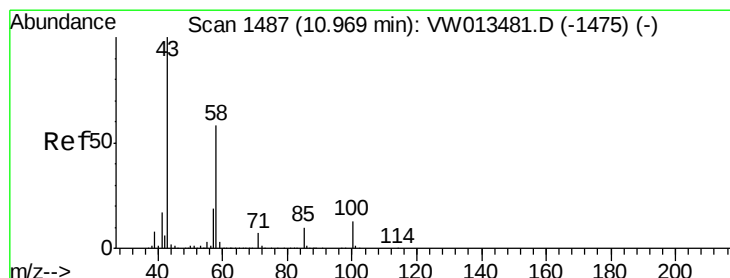
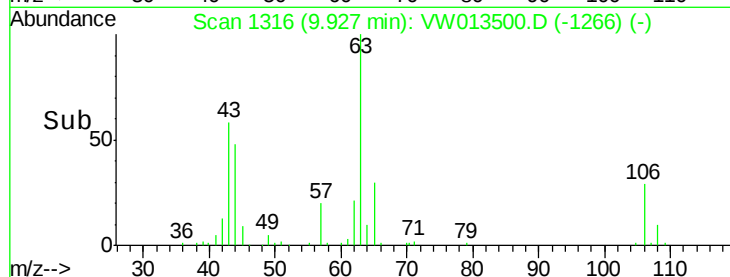
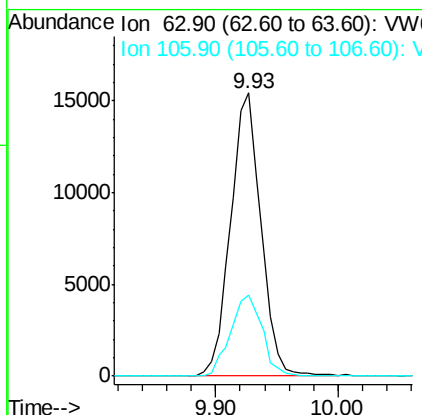
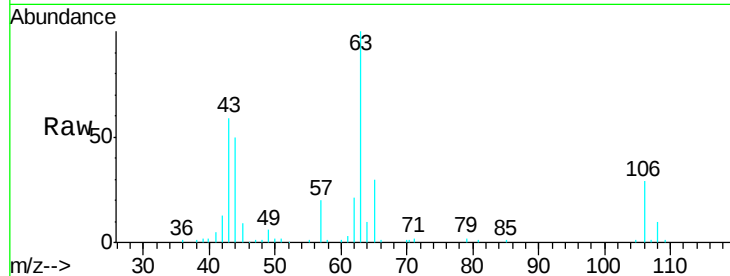




#58
 2-Chloroethyl Vinyl ether
 Concen: 17.954 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

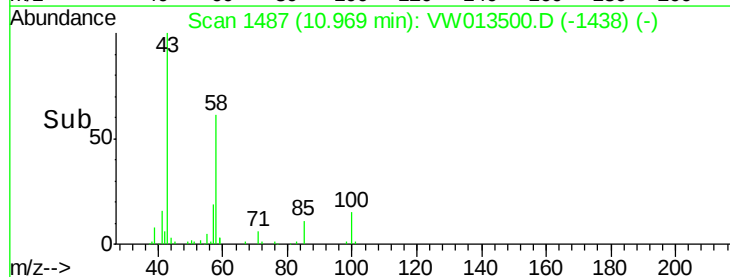
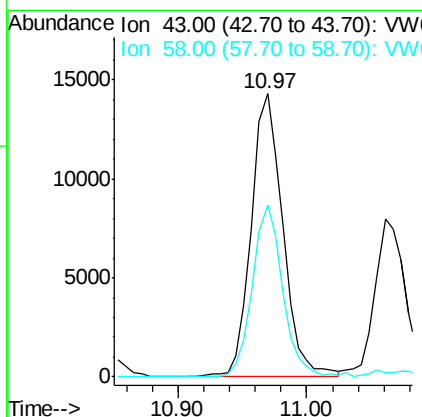
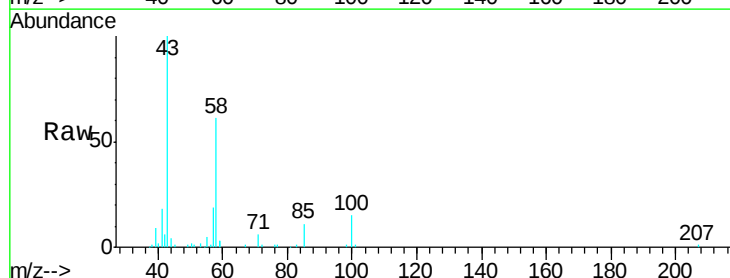
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

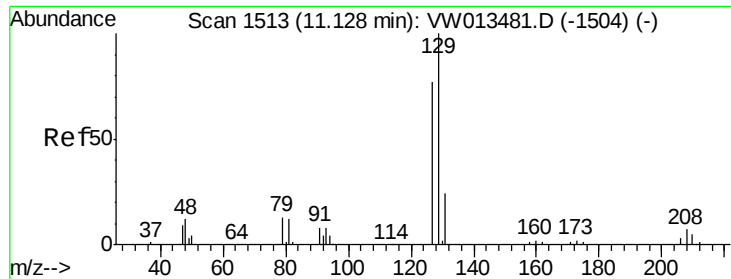
Tgt Ion: 63 Resp: 26444
 Ion Ratio Lower Upper
 63 100
 106 29.8 24.5 36.7



#59
 2-Hexanone
 Concen: 17.671 ug/l
 RT: 10.97 min Scan# 1487
 Delta R.T. 0.00 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

Tgt Ion: 43 Resp: 24160
 Ion Ratio Lower Upper
 43 100
 58 58.2 28.4 85.2

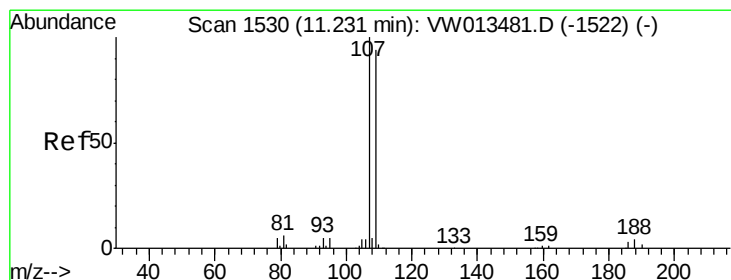
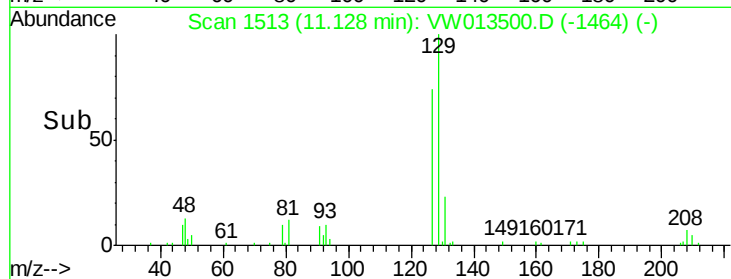
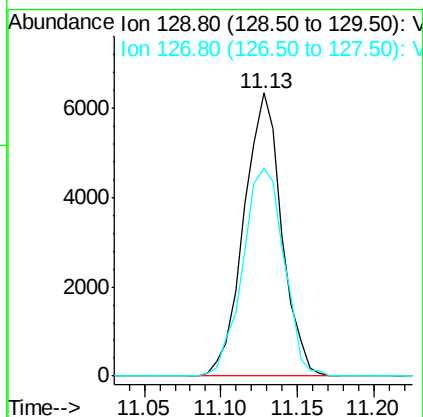
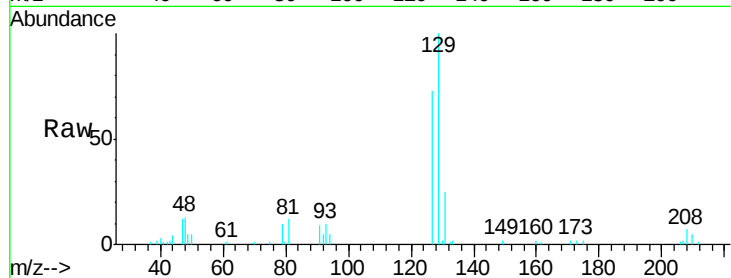




#60
 Dibromochloromethane
 Concen: 4.081 ug/l
 RT: 11.13 min Scan# 1513
 Delta R.T. 0.00 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

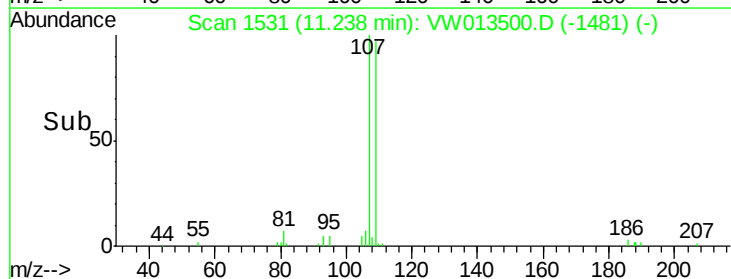
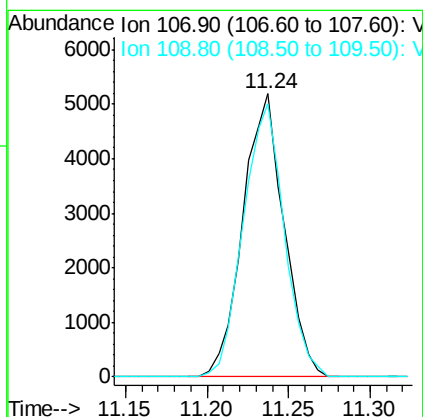
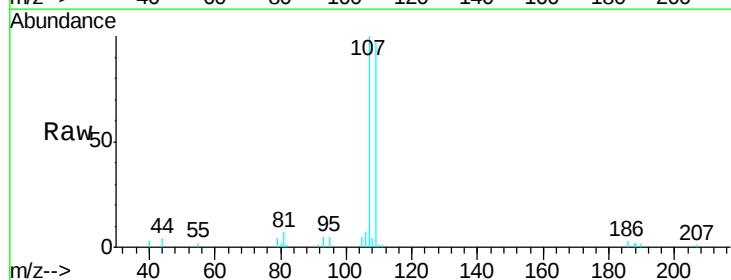
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

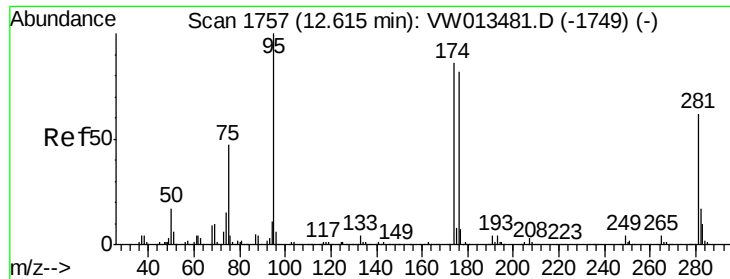
Tgt Ion:129 Resp: 10880
 Ion Ratio Lower Upper
 129 100
 127 80.5 37.4 112.1



#61
 1,2-Dibromoethane
 Concen: 4.120 ug/l
 RT: 11.24 min Scan# 1531
 Delta R.T. 0.01 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

Tgt Ion:107 Resp: 9084
 Ion Ratio Lower Upper
 107 100
 109 96.2 76.6 115.0

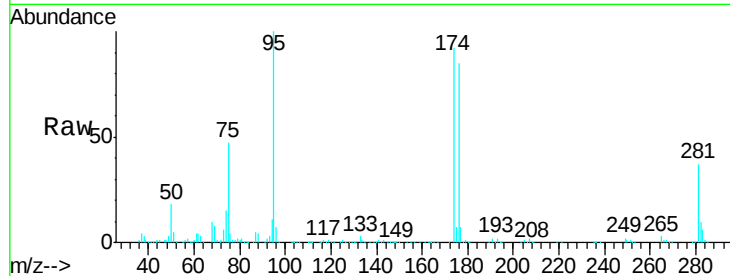




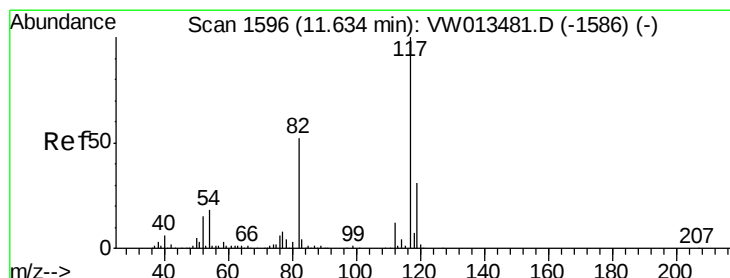
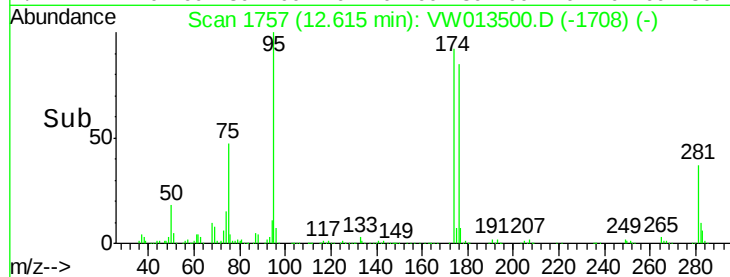
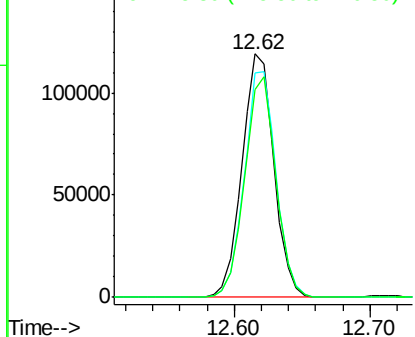
#62
4-Bromofluorobenzene
Concen: 48.233 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 95 Resp: 194511
Ion Ratio Lower Upper
95 100
174 92.5 0.0 177.4
176 88.9 0.0 173.4

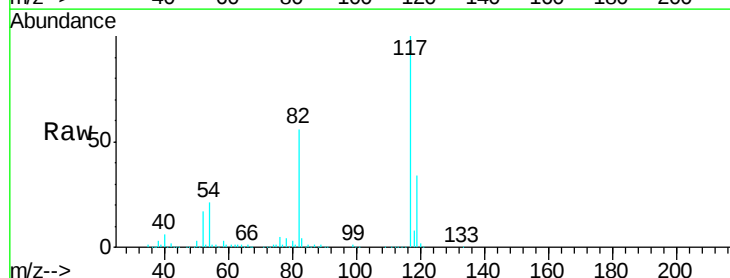


Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW

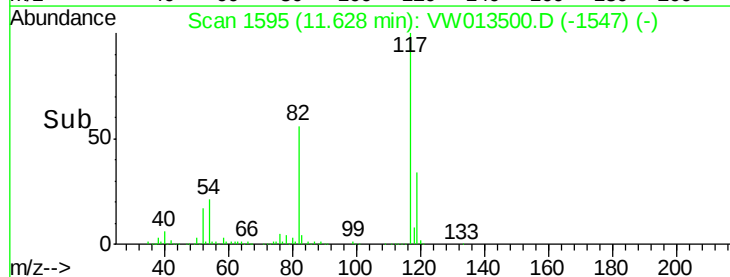
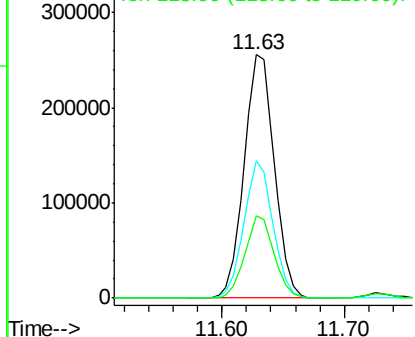


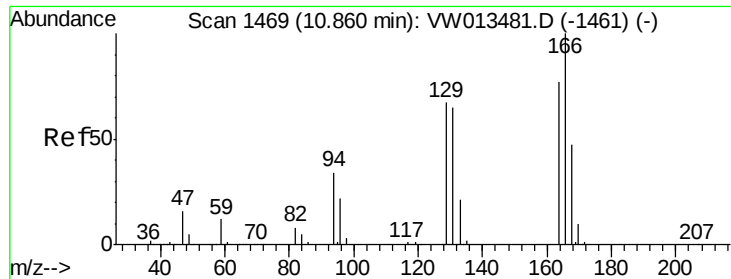
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

Tgt Ion: 117 Resp: 440304
Ion Ratio Lower Upper
117 100
82 56.4 41.4 62.2
119 34.0 25.1 37.7



Abundance Ion 116.90 (116.60 to 117.60): VW
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): VW

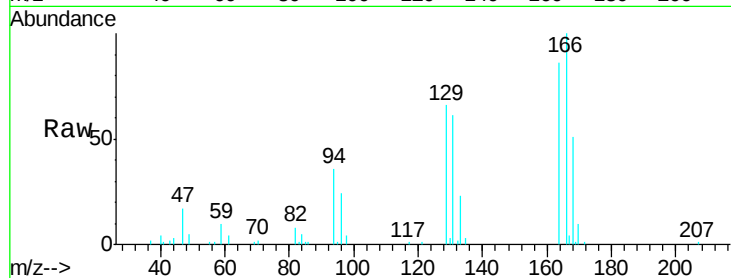




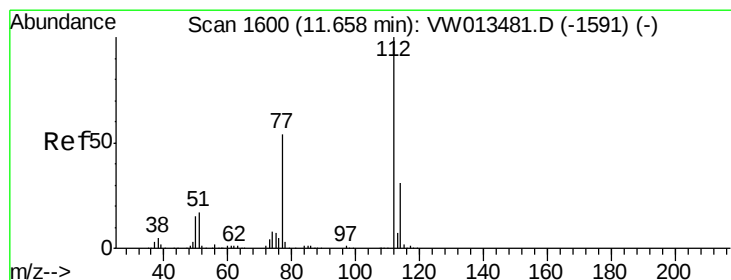
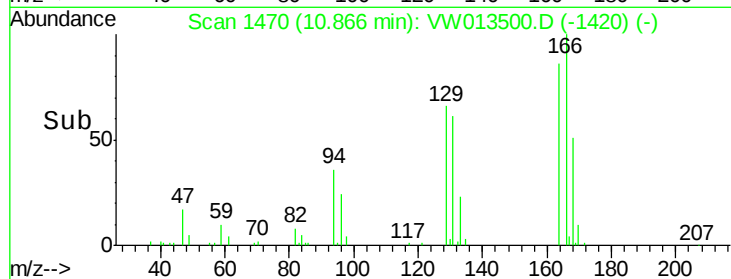
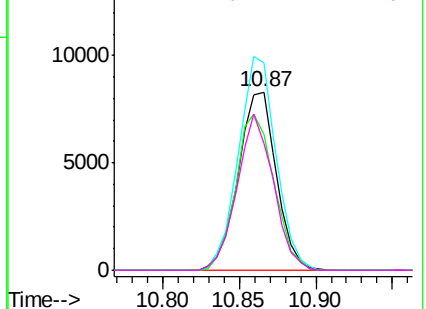
#64
Tetrachloroethene
Concen: 4.430 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion:164 Resp: 14356
Ion Ratio Lower Upper
164 100
166 116.6 104.6 156.8
129 76.4 70.2 105.2
131 70.9 67.6 101.4

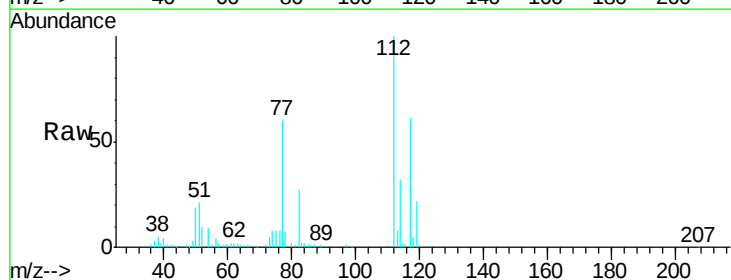


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

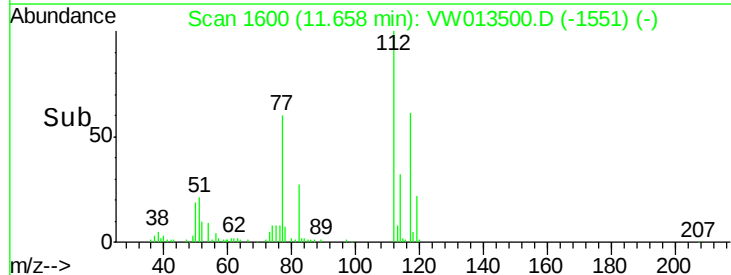
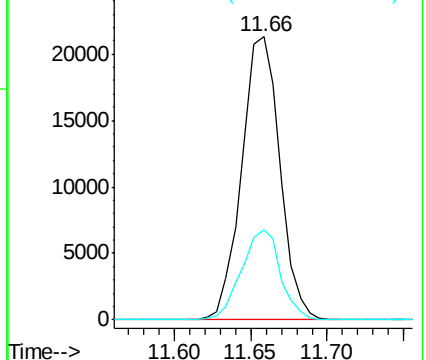


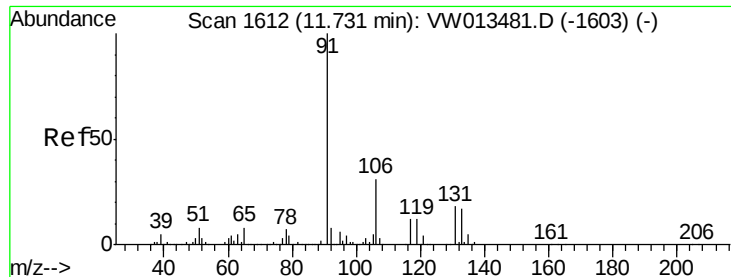
#65
Chlorobenzene
Concen: 4.227 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

Tgt Ion:112 Resp: 36985
Ion Ratio Lower Upper
112 100
114 31.8 24.6 37.0



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V





#66

1,1,1,2-Tetrachloroethane

Concen: 4.117 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

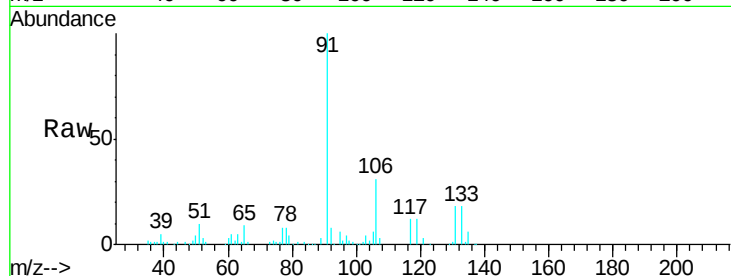
Tgt Ion: 131 Resp: 12512

Ion Ratio Lower Upper

131 100

133 96.4 47.6 142.9

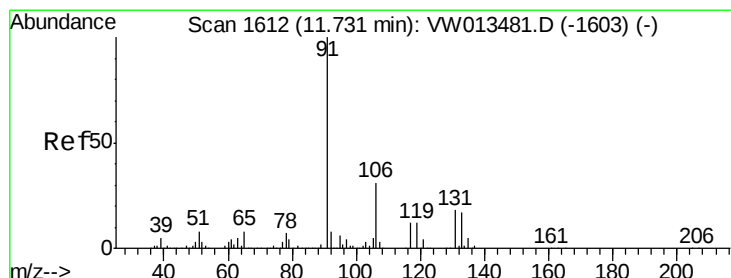
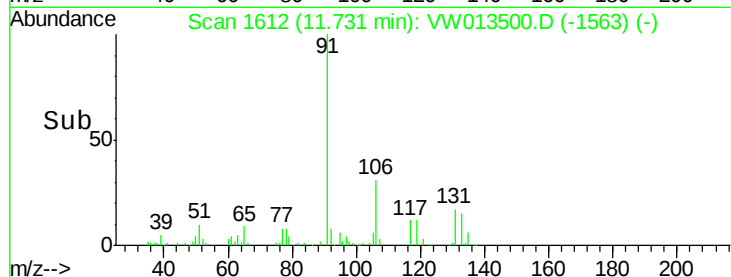
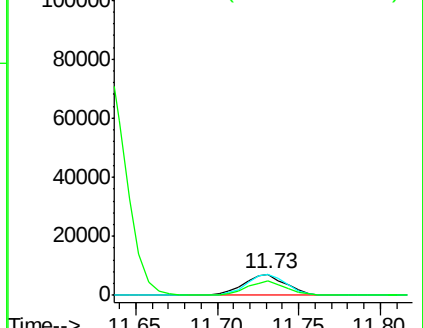
119 65.2 32.6 98.0



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: 4.244 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW013500.D

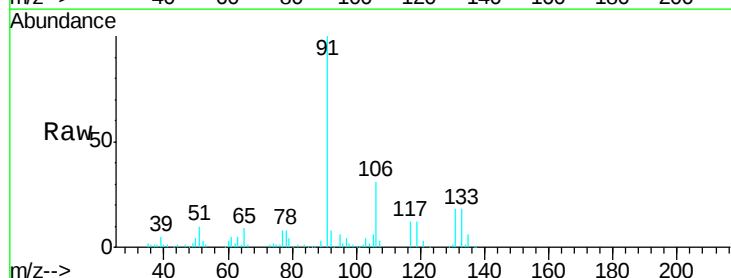
Acq: 09 Oct 2019 13:35

Tgt Ion: 91 Resp: 67862

Ion Ratio Lower Upper

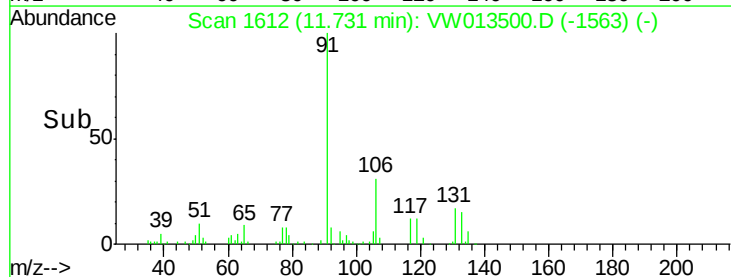
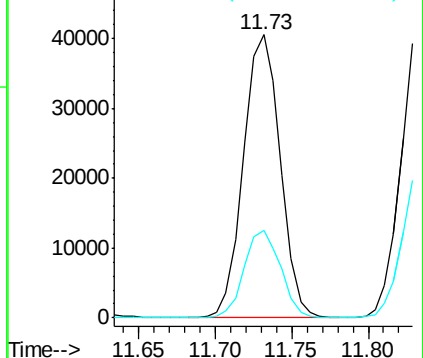
91 100

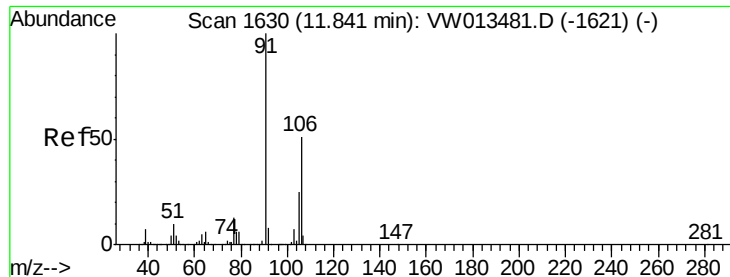
106 30.9 24.8 37.2



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V

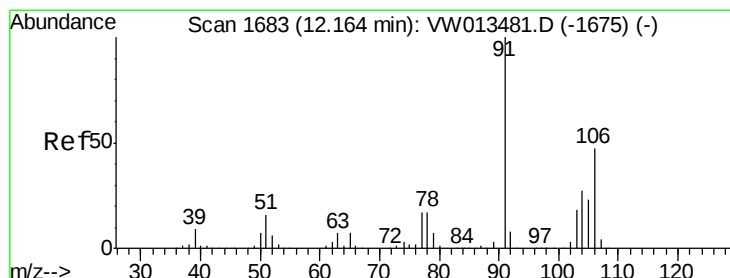
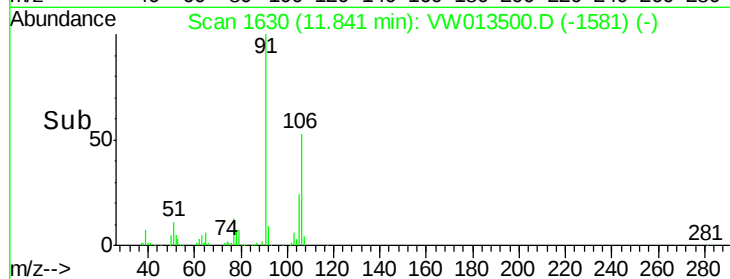
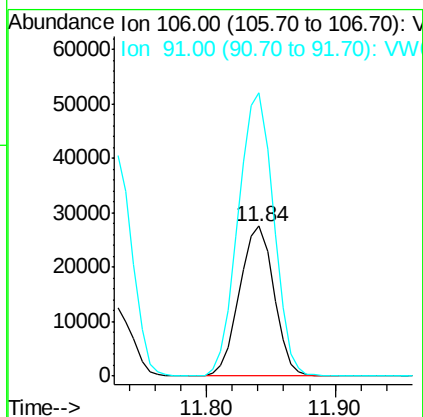
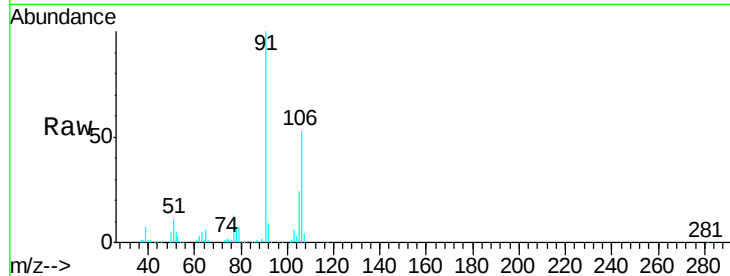




#68
m/p-Xylenes
Concen: 8.432 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

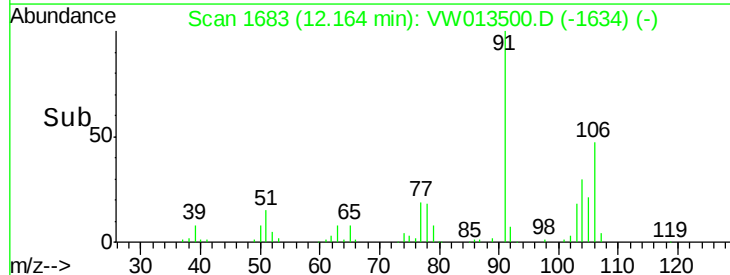
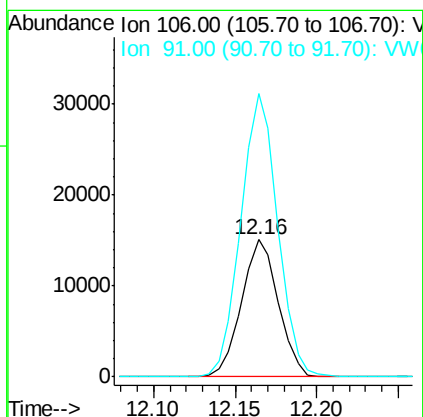
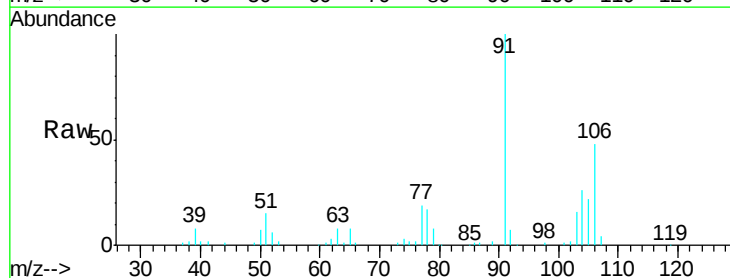
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

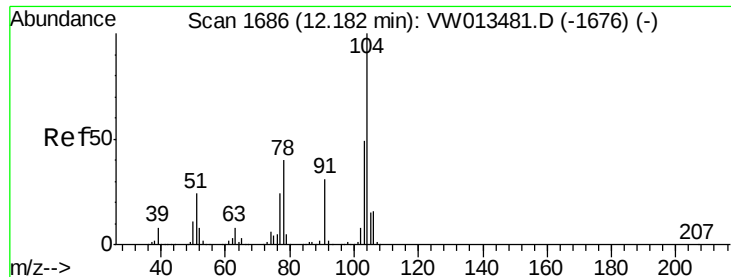
Tgt Ion:106 Resp: 51302
Ion Ratio Lower Upper
106 100
91 193.6 156.2 234.4



#69
o-Xylene
Concen: 4.237 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

Tgt Ion:106 Resp: 23819
Ion Ratio Lower Upper
106 100
91 206.2 105.0 315.0

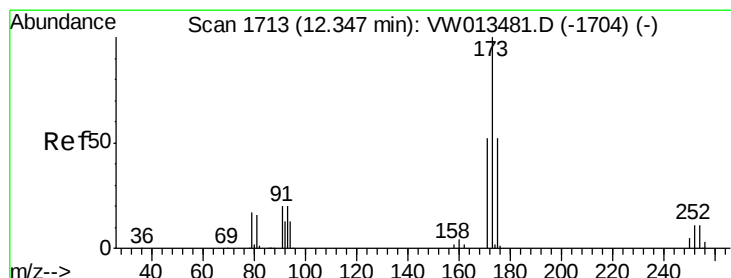
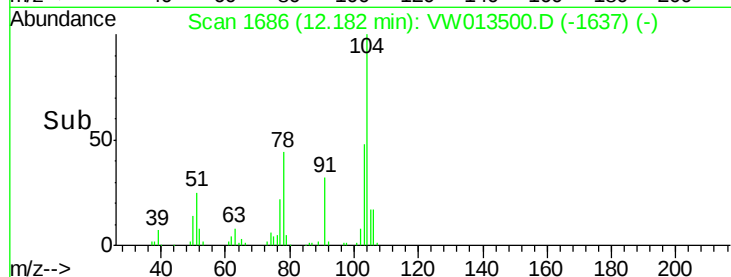
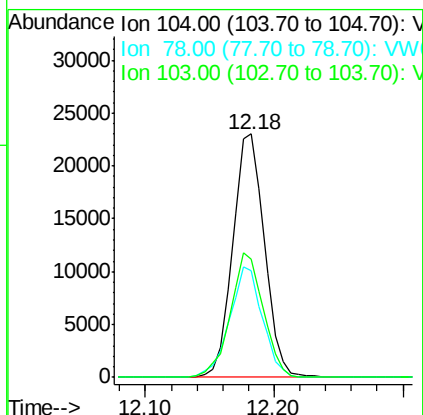
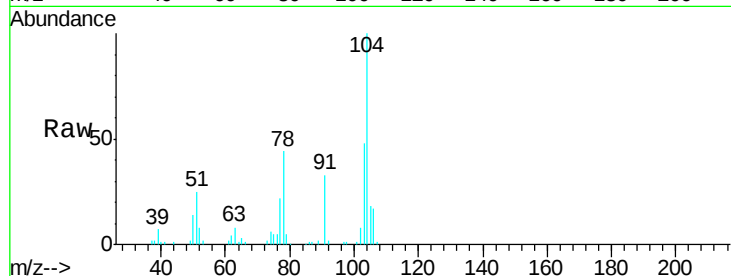




#70
Styrene
Concen: 4.076 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

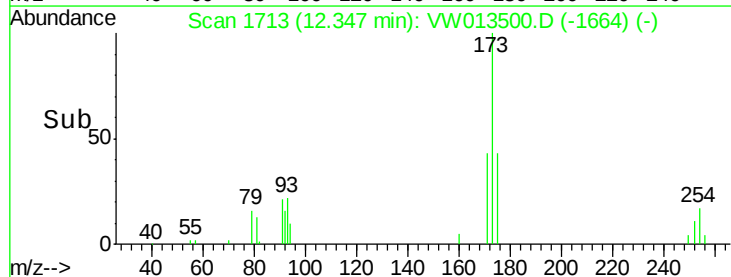
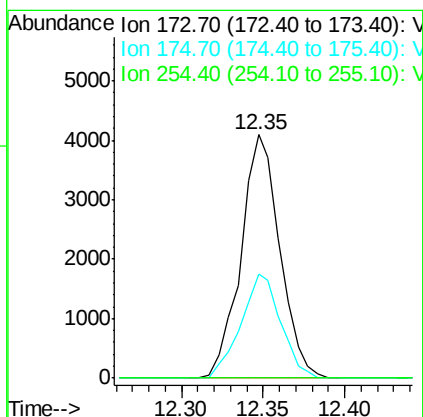
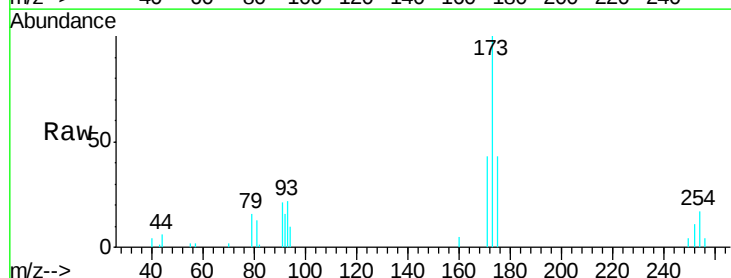
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

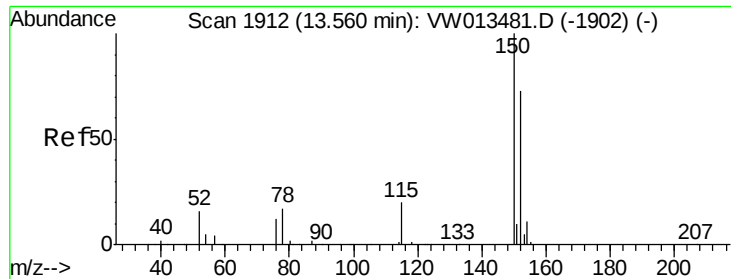
Tgt Ion:104 Resp: 39338
Ion Ratio Lower Upper
104 100
78 47.3 37.1 55.7
103 53.2 43.2 64.8



#71
Bromoform
Concen: 4.072 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

Tgt Ion:173 Resp: 6790
Ion Ratio Lower Upper
173 100
175 43.8 24.4 73.4
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

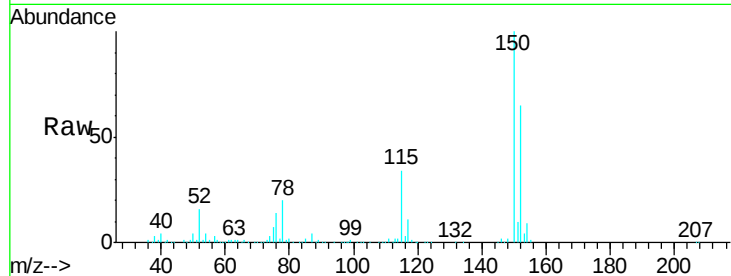
Tgt Ion:152 Resp: 224898

Ion Ratio Lower Upper

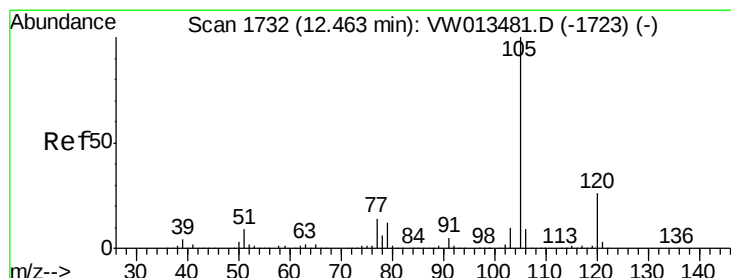
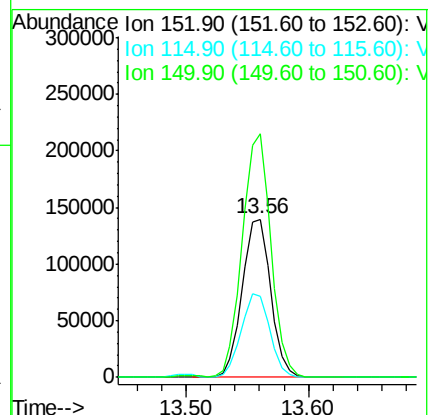
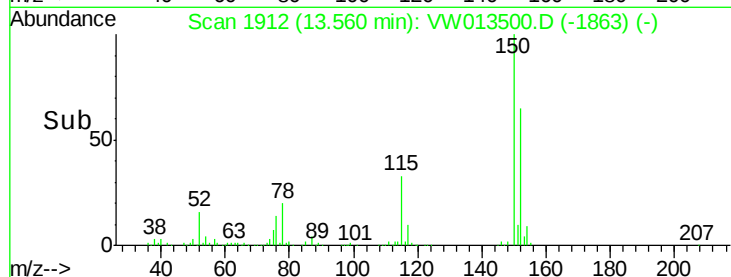
152 100

115 53.4 27.0 81.0

150 154.7 0.0 337.4



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: 4.050 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW013500.D

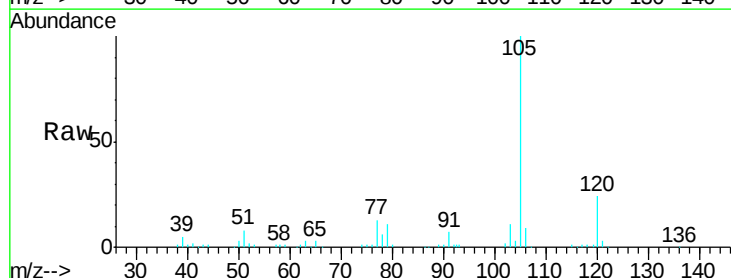
Acq: 09 Oct 2019 13:35

Tgt Ion:105 Resp: 65247

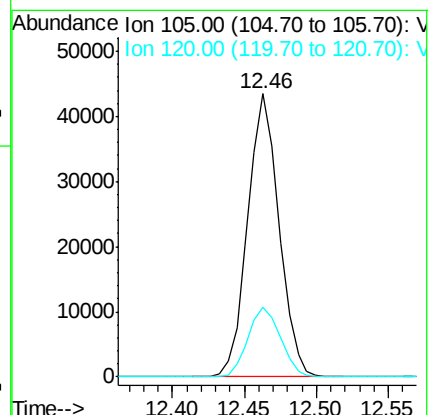
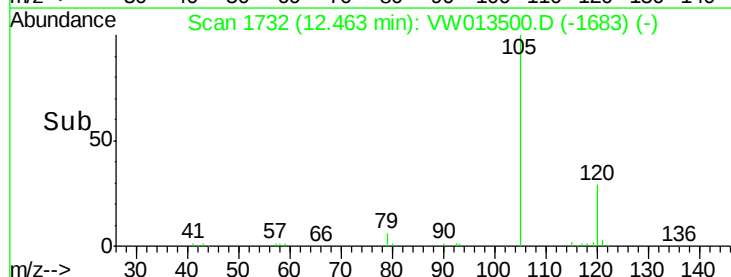
Ion Ratio Lower Upper

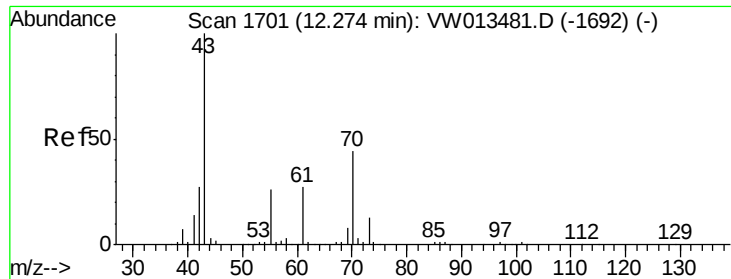
105 100

120 25.6 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#74

N-ethyl acetate

Concen: 3.556 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 43 Resp: 12530

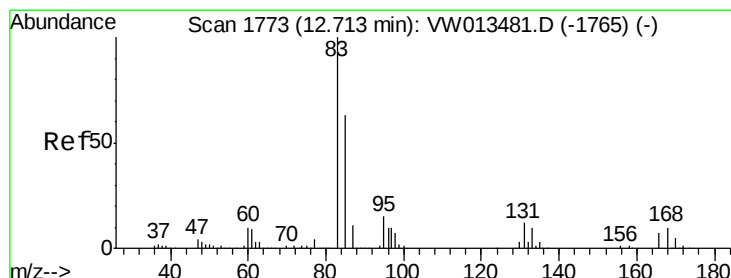
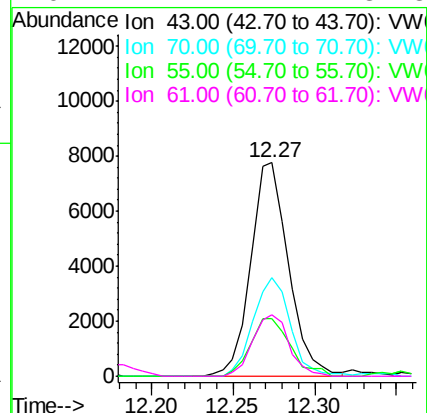
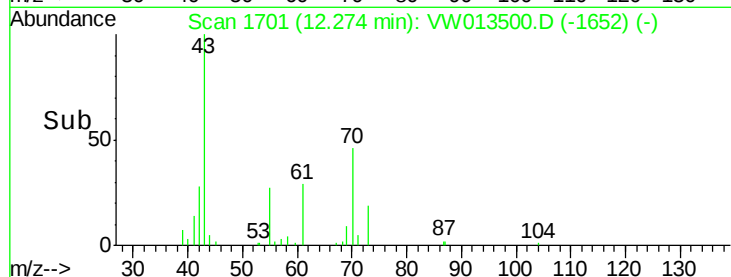
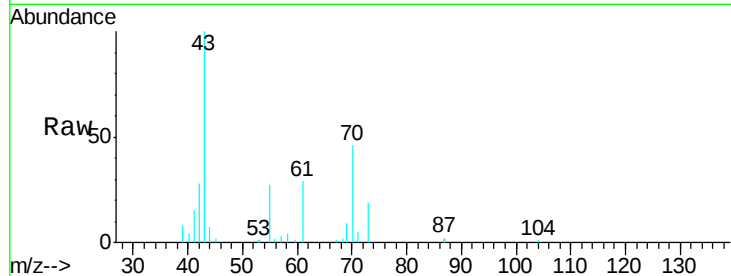
Ion Ratio Lower Upper

43 100

70 45.4 35.3 52.9

55 28.7 20.0 30.0

61 27.7 21.2 31.8



#75

1,1,2,2-Tetrachloroethane

Concen: 4.148 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

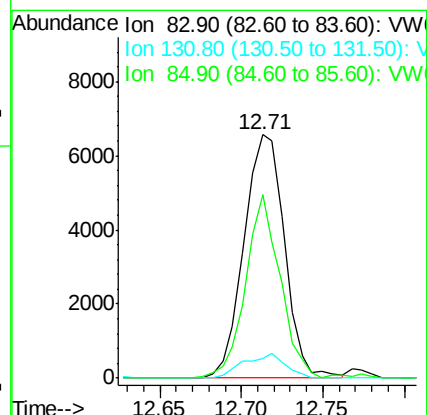
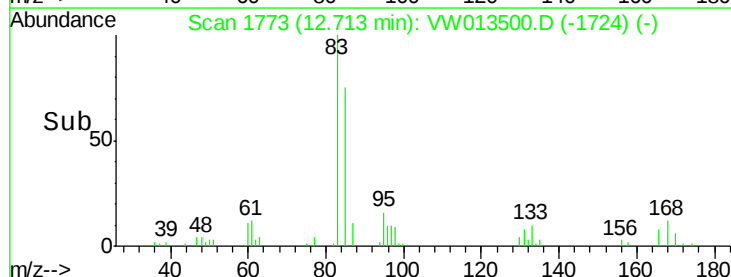
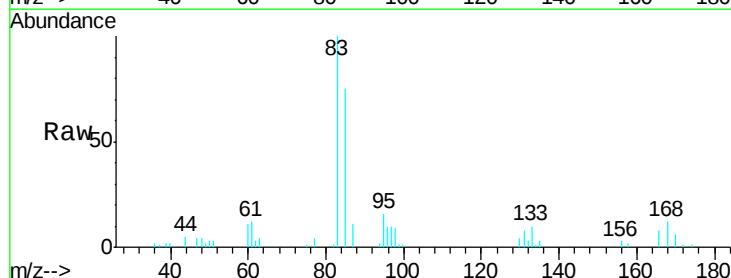
Tgt Ion: 83 Resp: 11390

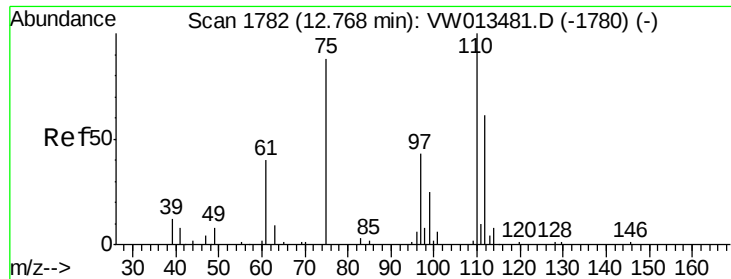
Ion Ratio Lower Upper

83 100

131 10.2 5.9 17.7

85 64.1 32.5 97.4





#76

1,2,3-Trichloropropane

Concen: 7.354 ug/l

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

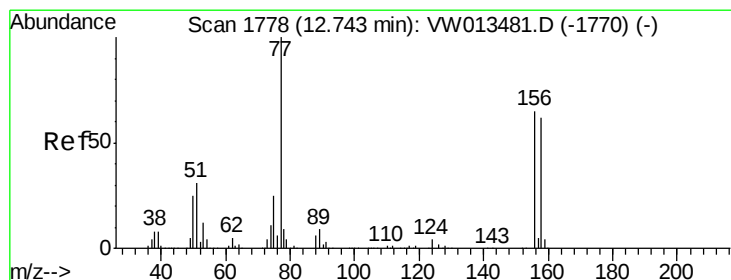
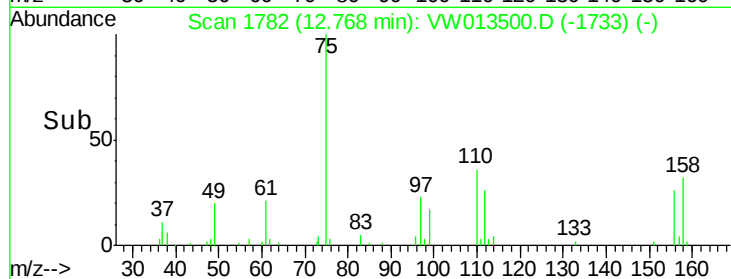
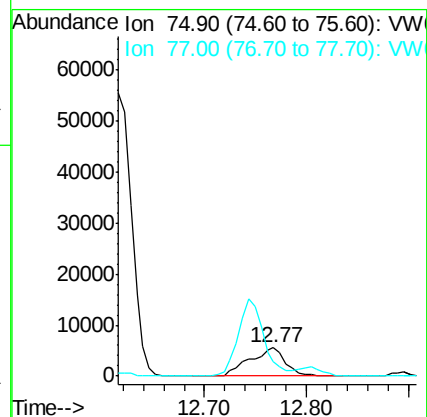
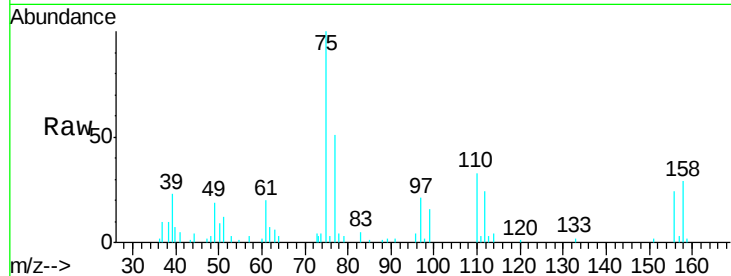
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 75 Resp: 13775

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



#77

Bromobenzene

Concen: 4.194 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

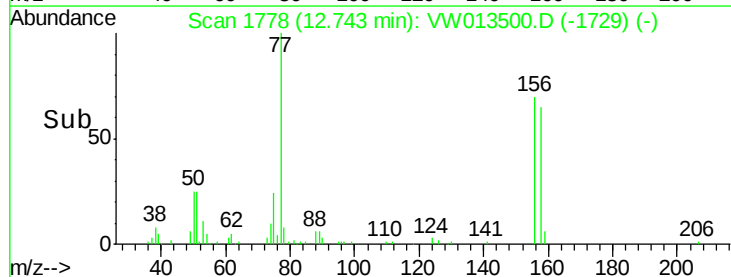
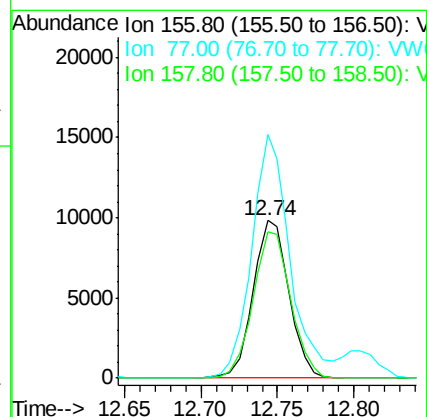
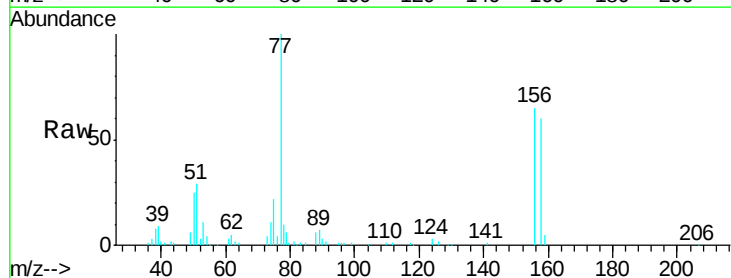
Tgt Ion: 156 Resp: 16013

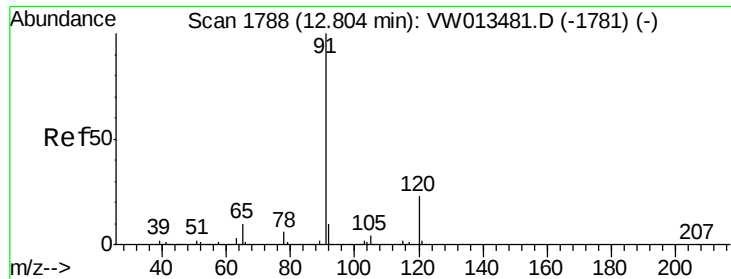
Ion Ratio Lower Upper

156 100

77 164.9 83.7 251.0

158 97.1 49.0 147.0

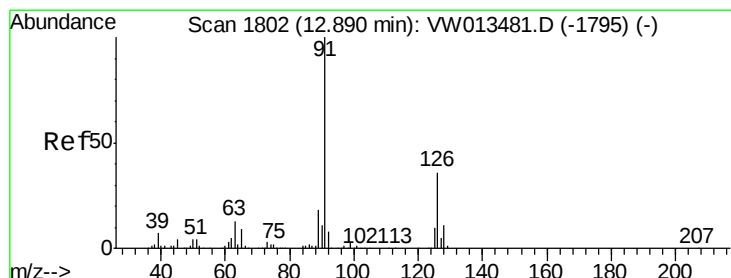
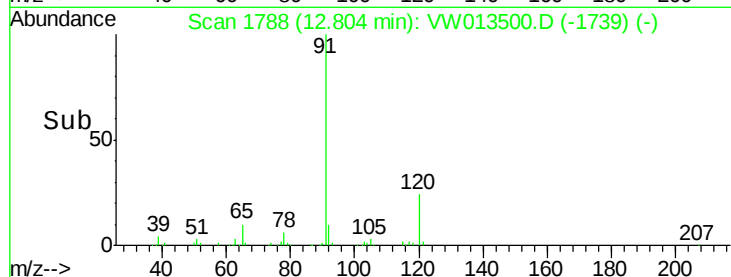
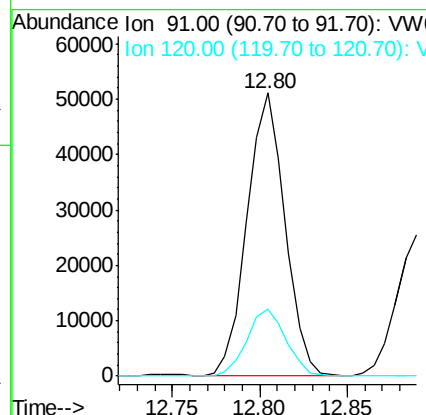
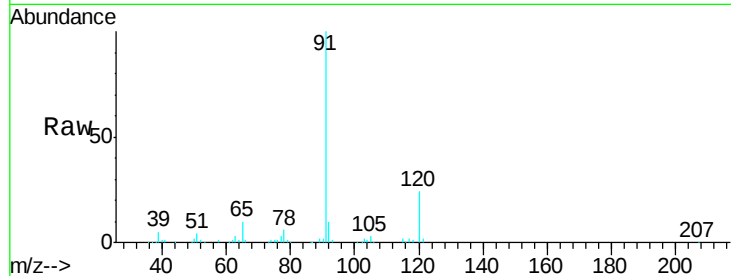




#78
n-propylbenzene
Concen: 4.120 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

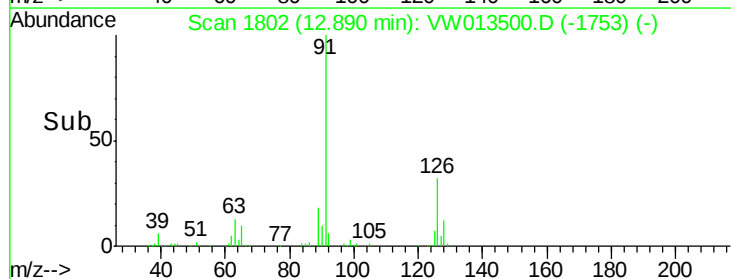
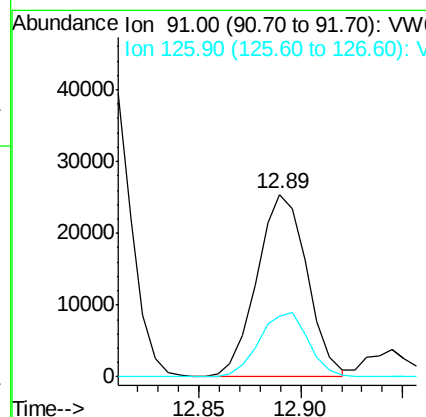
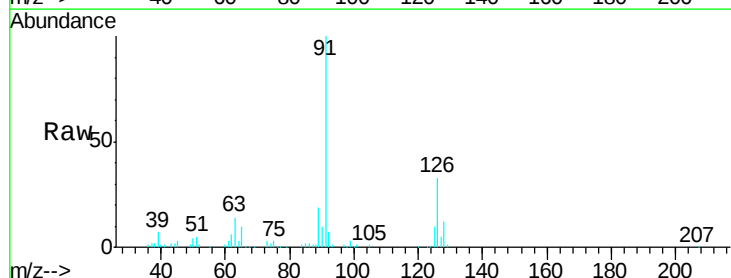
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

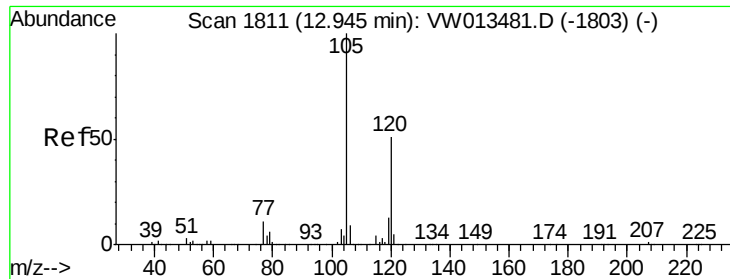
Tgt Ion: 91 Resp: 76752
Ion Ratio Lower Upper
91 100
120 24.7 11.7 35.1



#79
2-Chlorotoluene
Concen: 4.144 ug/l
RT: 12.89 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

Tgt Ion: 91 Resp: 43246
Ion Ratio Lower Upper
91 100
126 34.8 17.8 53.4





#80

1,3,5-Trimethylbenzene

Concen: 4.178 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

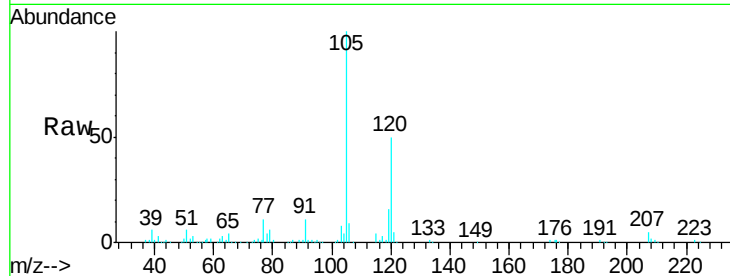
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion:105 Resp: 55922

Ion Ratio Lower Upper

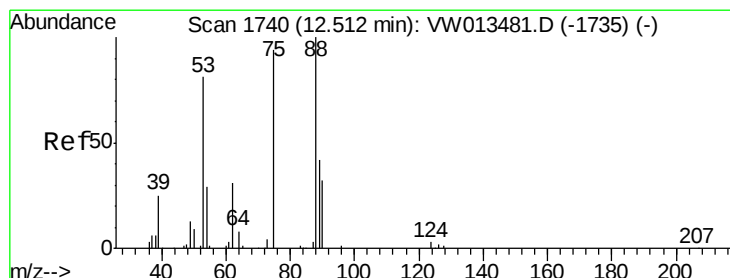
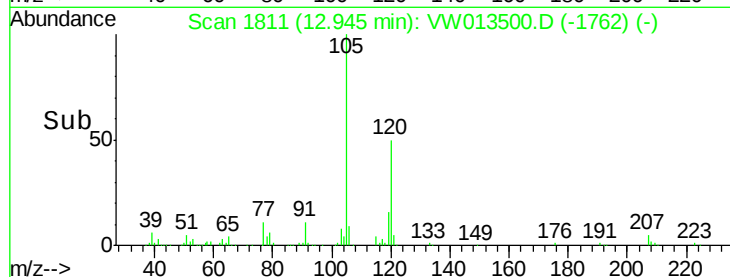
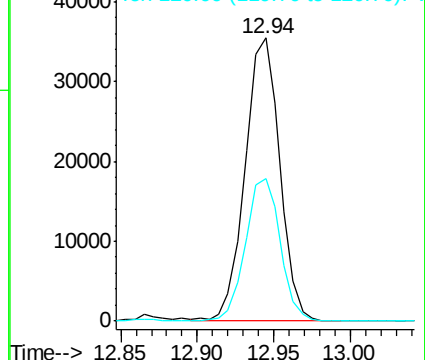
105 100

120 50.5 25.4 76.0



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: 3.621 ug/l

RT: 12.51 min Scan# 1740

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

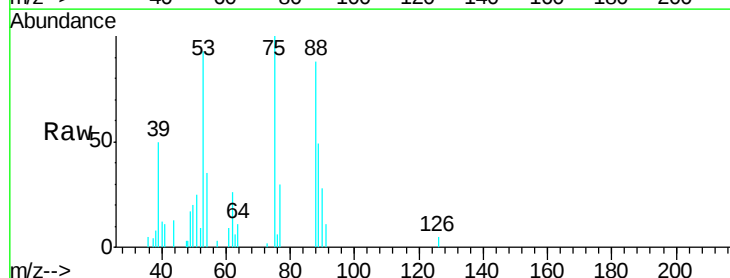
Tgt Ion: 75 Resp: 3318

Ion Ratio Lower Upper

75 100

53 93.7 71.0 106.6

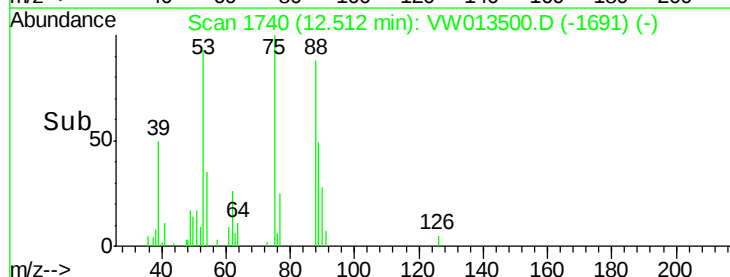
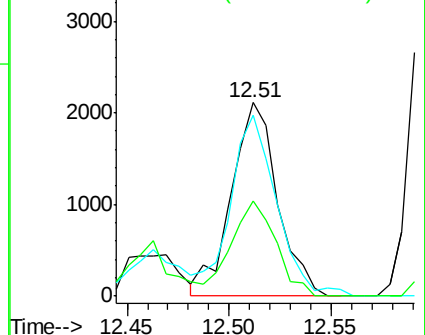
89 47.0 36.1 54.1

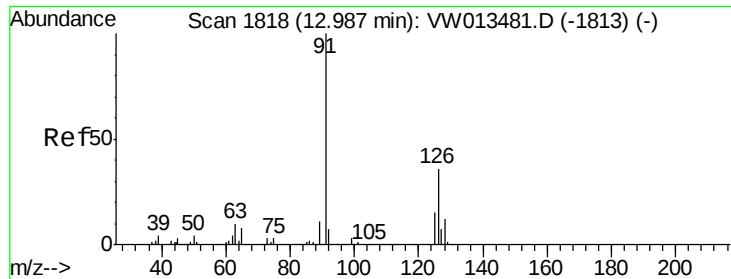


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW





#82

4-Chlorotoluene

Concen: 4.203 ug/l

RT: 12.99 min Scan# 1818

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

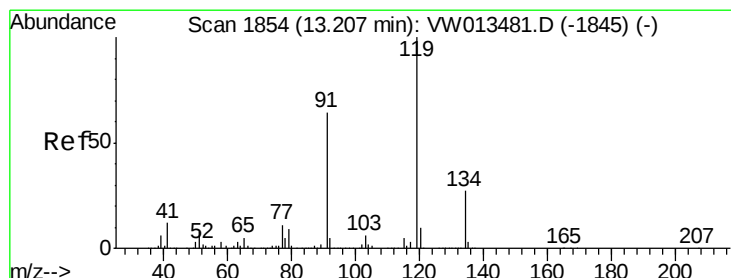
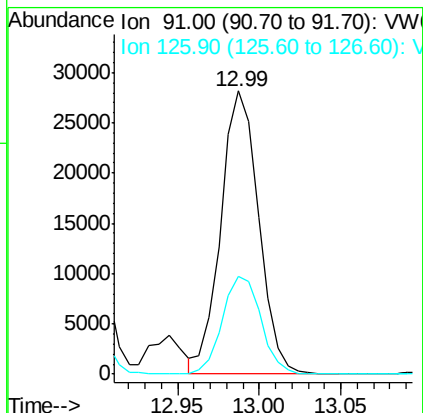
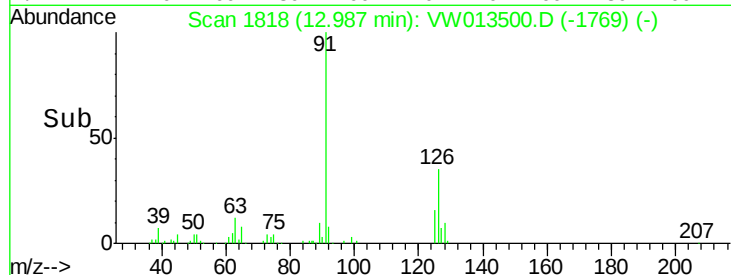
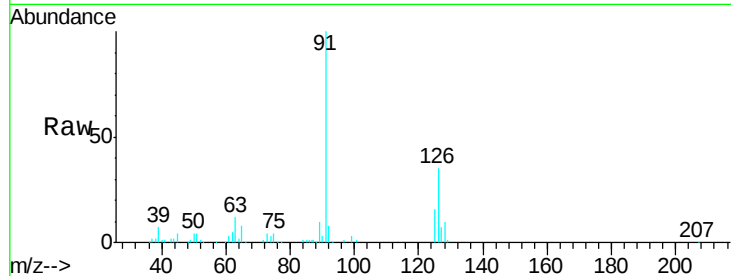
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 91 Resp: 45527

Ion Ratio Lower Upper

91 100

126 35.2 17.5 52.6



#83

tert-Butylbenzene

Concen: 4.029 ug/l

RT: 13.21 min Scan# 1854

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

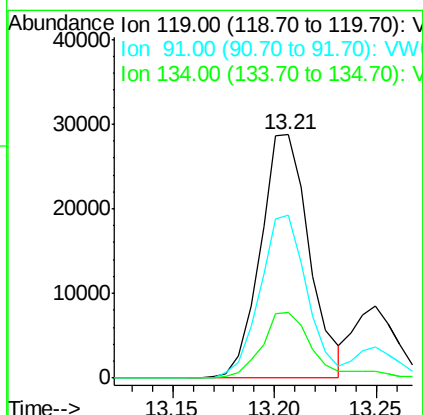
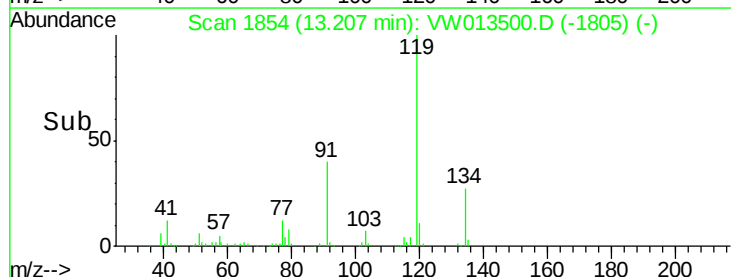
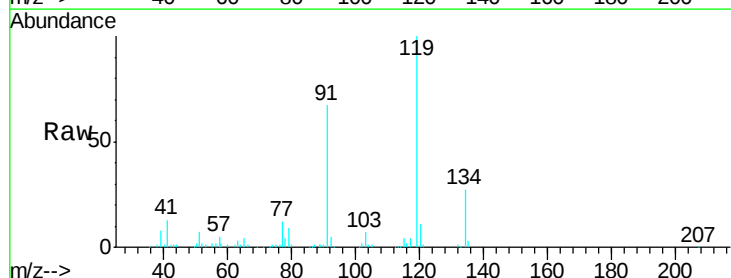
Tgt Ion: 119 Resp: 47892

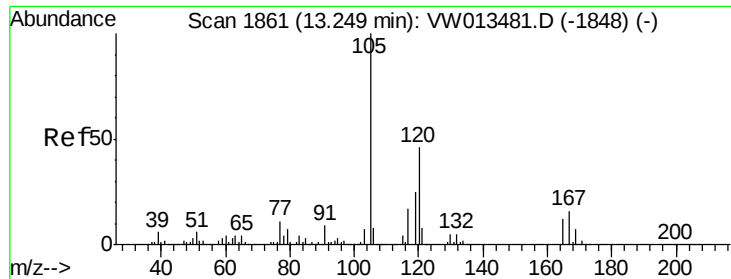
Ion Ratio Lower Upper

119 100

91 64.6 30.6 91.6

134 28.7 13.8 41.3

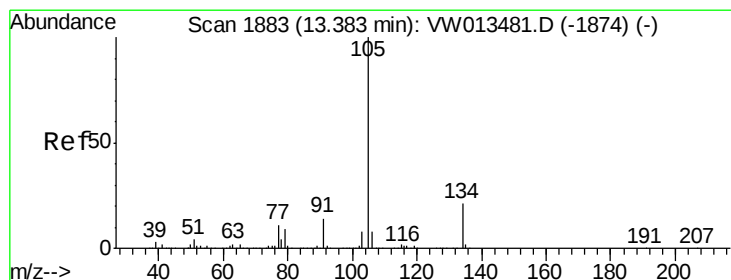
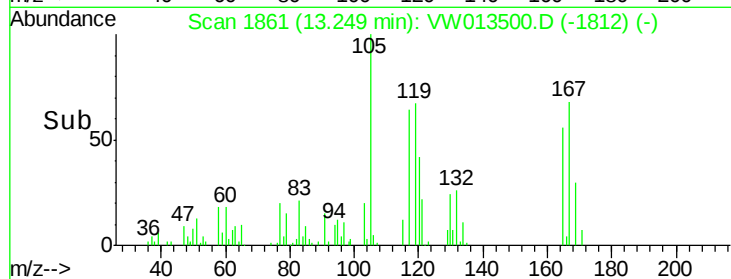
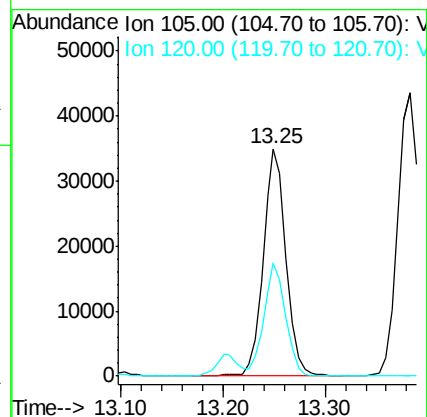
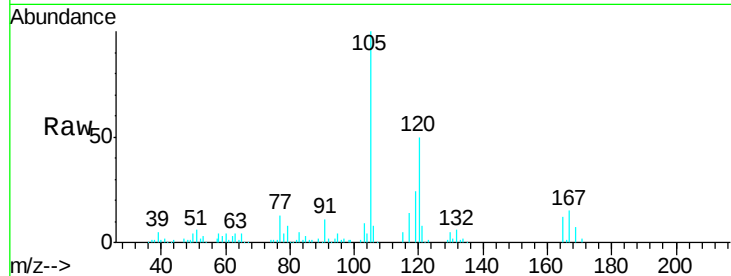




#84
1,2,4-Trimethylbenzene
Concen: 4.102 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

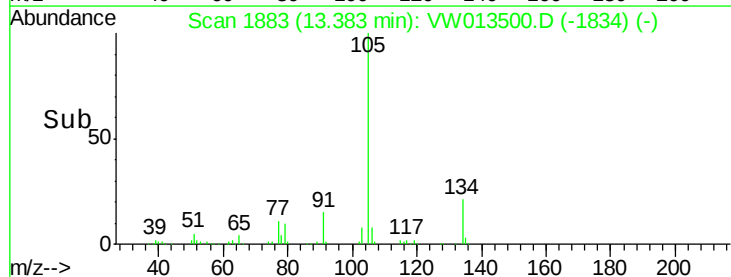
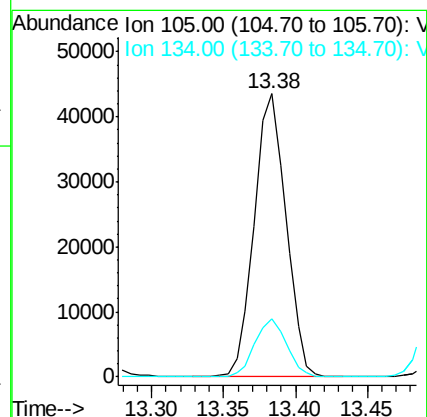
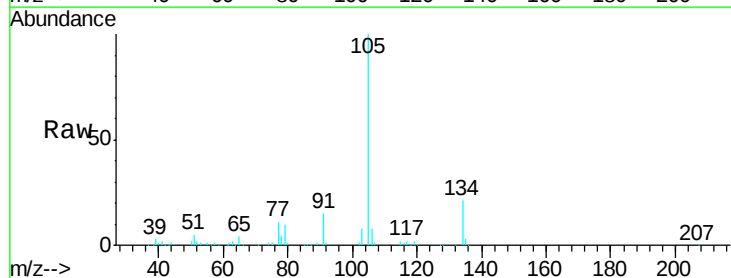
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

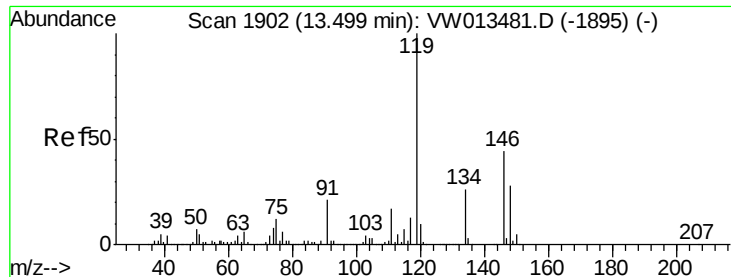
Tgt Ion:105 Resp: 54298
Ion Ratio Lower Upper
105 100
120 47.3 23.2 69.5



#85
sec-Butylbenzene
Concen: 4.037 ug/l
RT: 13.38 min Scan# 1883
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

Tgt Ion:105 Resp: 66306
Ion Ratio Lower Upper
105 100
134 20.5 10.4 31.4

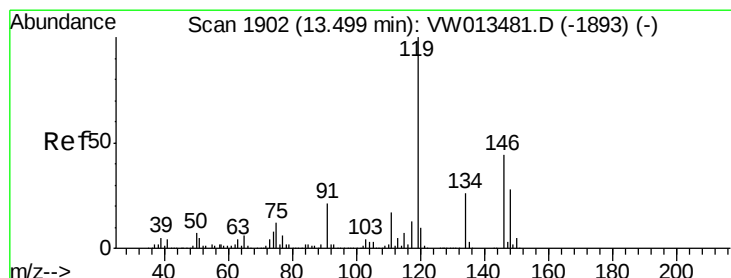
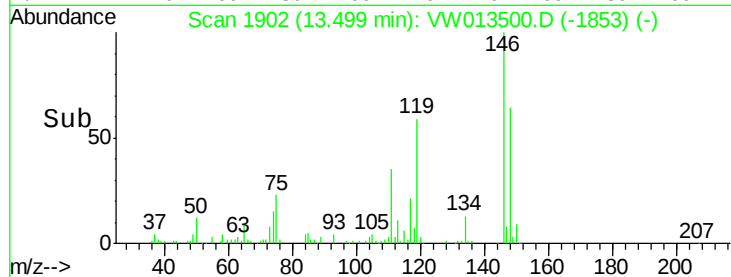
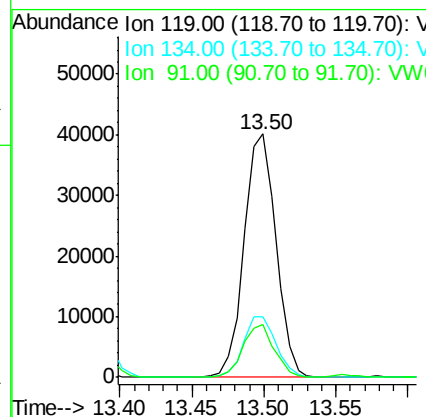
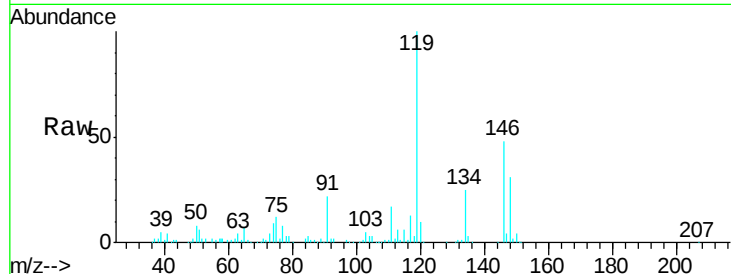




#86
p-Isopropyltoluene
Concen: 4.072 ug/l
RT: 13.50 min Scan# 1902
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

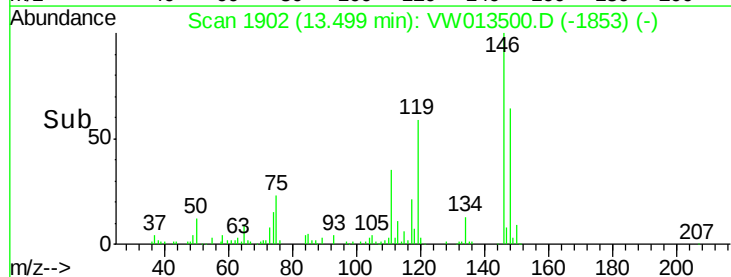
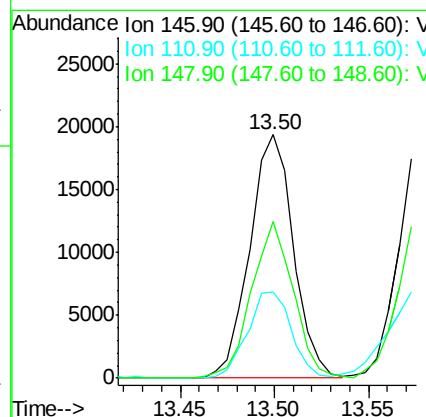
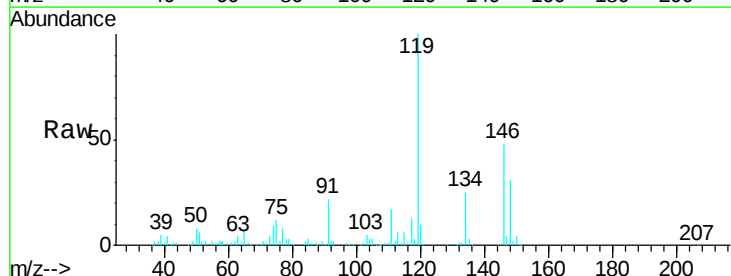
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

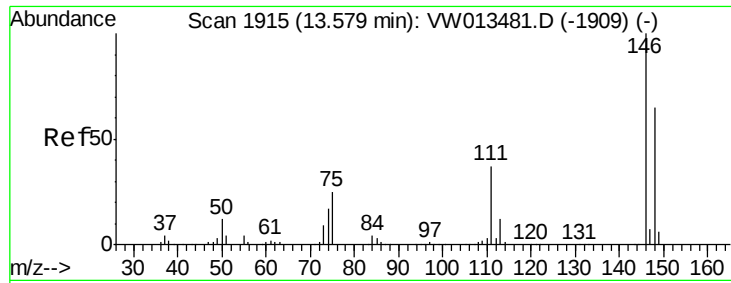
Tgt Ion:119 Resp: 61447
Ion Ratio Lower Upper
119 100
134 26.0 13.1 39.1
91 21.6 10.8 32.3



#87
1,3-Dichlorobenzene
Concen: 4.291 ug/l
RT: 13.50 min Scan# 1902
Delta R.T. 0.00 min
Lab File: VW013500.D
Acq: 09 Oct 2019 13:35

Tgt Ion:146 Resp: 31069
Ion Ratio Lower Upper
146 100
111 35.8 18.7 56.1
148 61.6 32.3 96.8





#88

1,4-Dichlorobenzene

Concen: 4.366 ug/l

RT: 13.58 min Scan# 1915

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

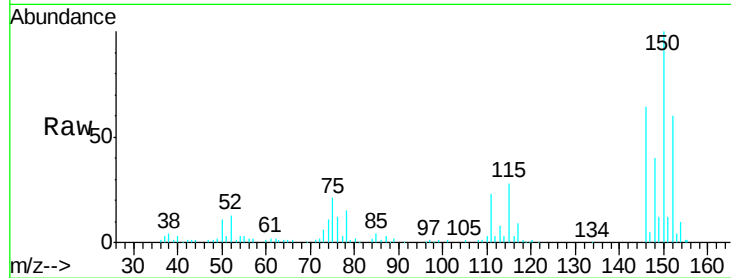
Tgt Ion:146 Resp: 30967

Ion Ratio Lower Upper

146 100

111 44.5 18.4 55.4

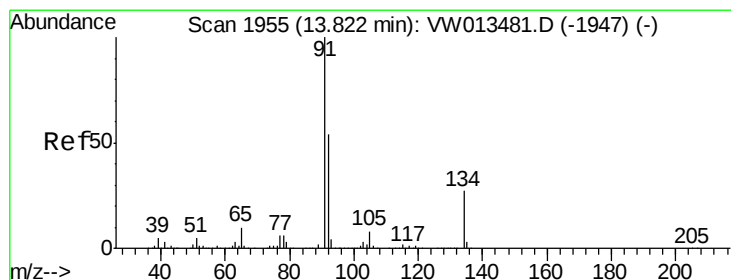
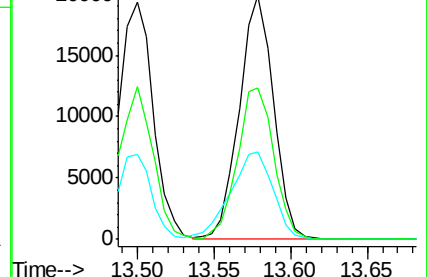
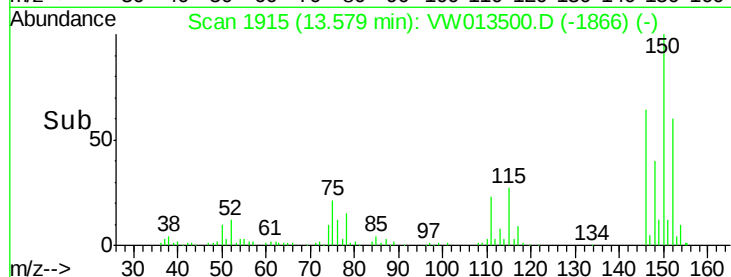
148 66.3 32.0 96.2



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: 3.938 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

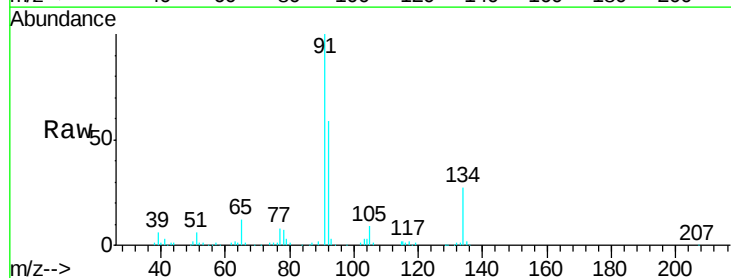
Tgt Ion: 91 Resp: 53684

Ion Ratio Lower Upper

91 100

92 56.3 27.5 82.4

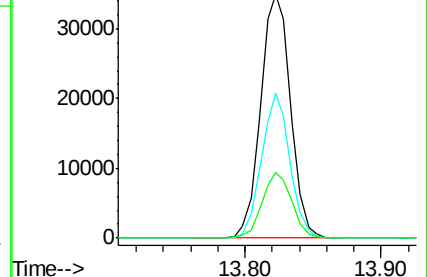
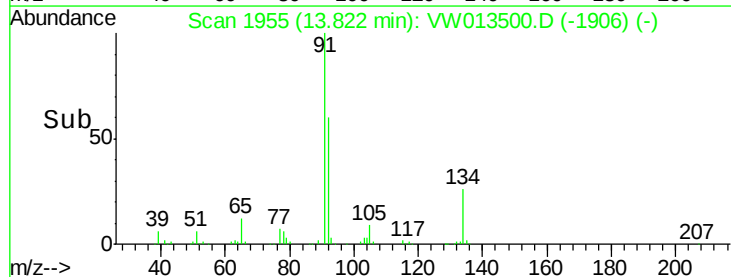
134 26.7 13.8 41.3

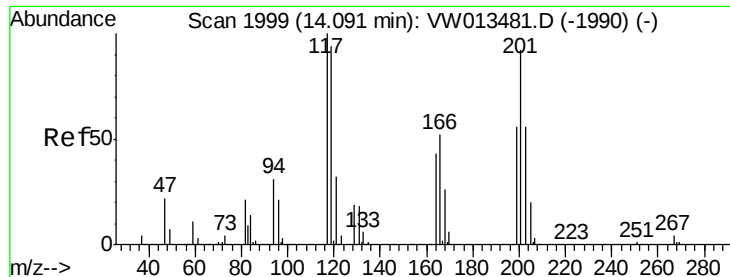


Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 3.969 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Instrument :

MSVOA_W

ClientSampleId :

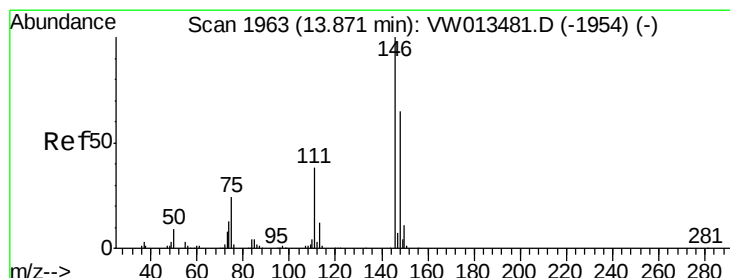
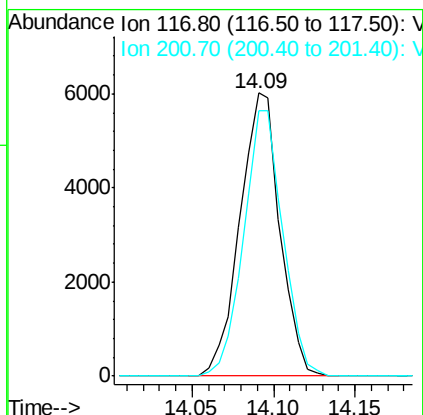
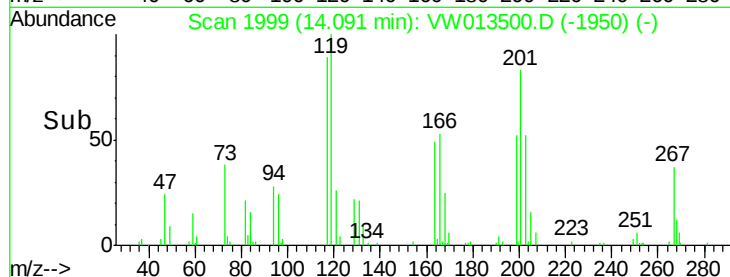
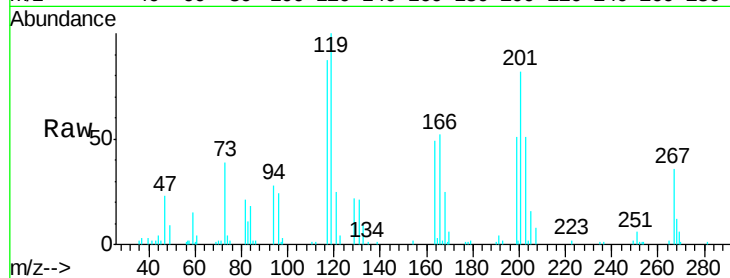
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion:117 Resp: 10248

Ion Ratio Lower Upper

117 100

201 92.0 46.9 140.7



#91

1,2-Dichlorobenzene

Concen: 4.159 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

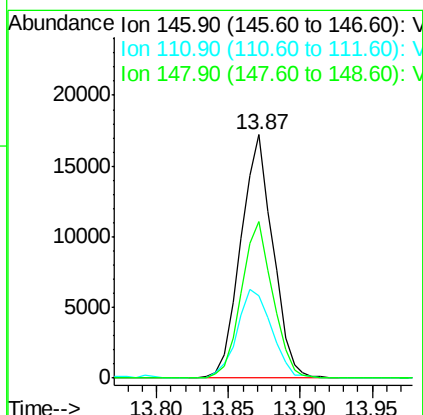
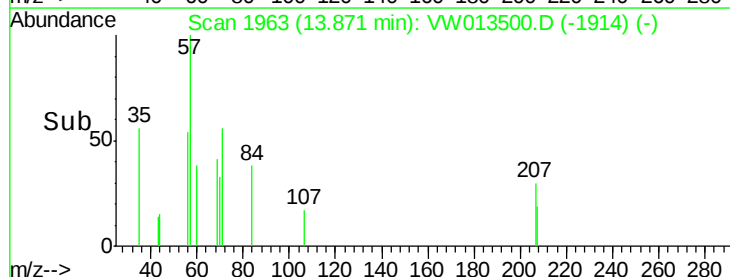
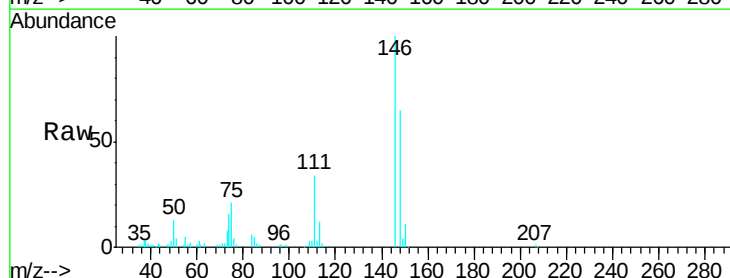
Tgt Ion:146 Resp: 26586

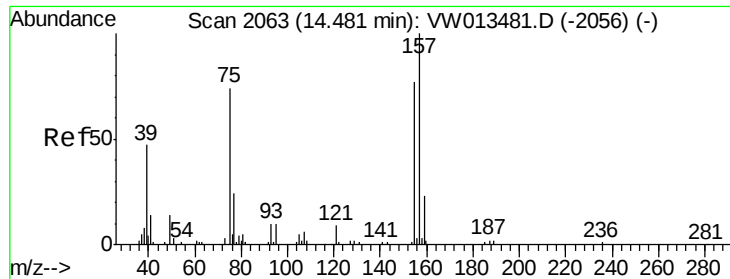
Ion Ratio Lower Upper

146 100

111 39.5 19.4 58.2

148 63.0 31.8 95.3

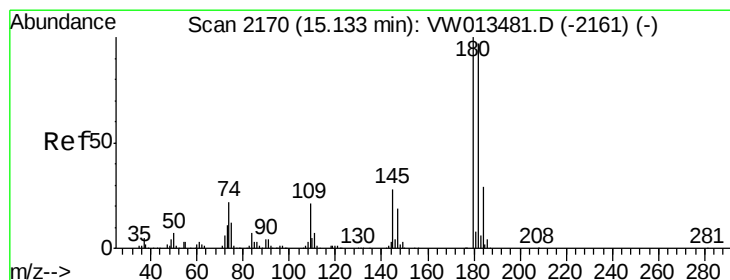
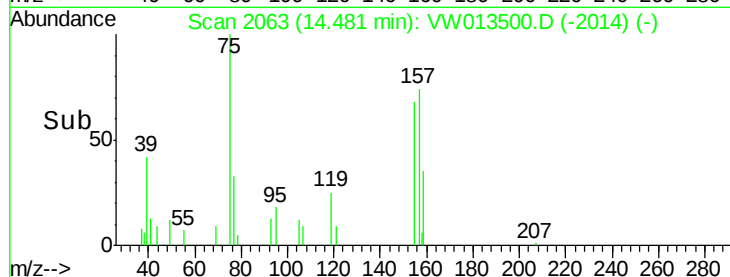
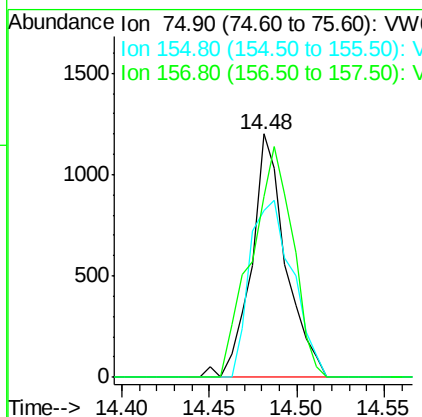
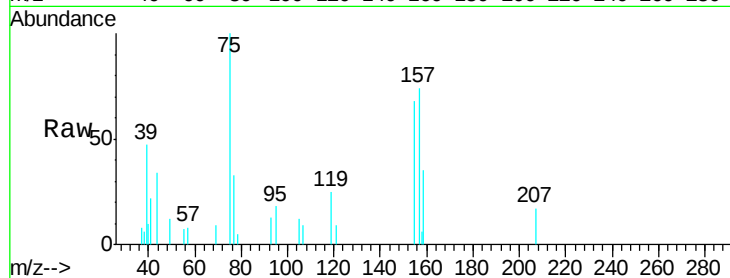




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 3.744 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. 0.00 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

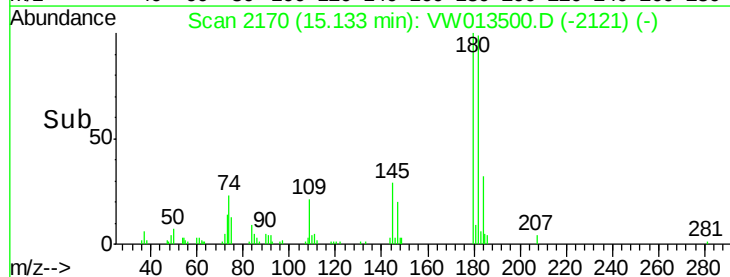
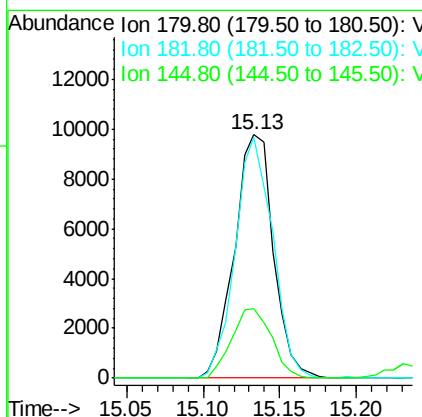
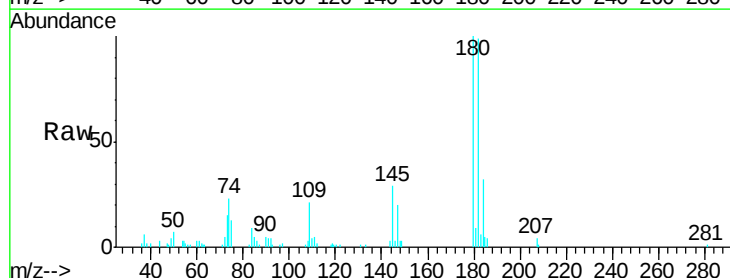
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

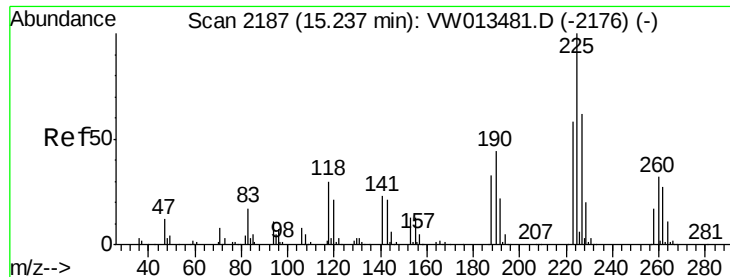
Tgt Ion: 75 Resp: 1639
 Ion Ratio Lower Upper
 75 100
 155 91.0 51.0 153.1
 157 114.7 65.9 197.7



#93
 1,2,4-Trichlorobenzene
 Concen: 3.825 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

Tgt Ion: 180 Resp: 17281
 Ion Ratio Lower Upper
 180 100
 182 95.4 47.7 143.1
 145 29.3 14.0 41.9





#94

Hexachlorobutadiene

Concen: 4.373 ug/l

RT: 15.23 min Scan# 2186

Delta R.T. -0.01 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

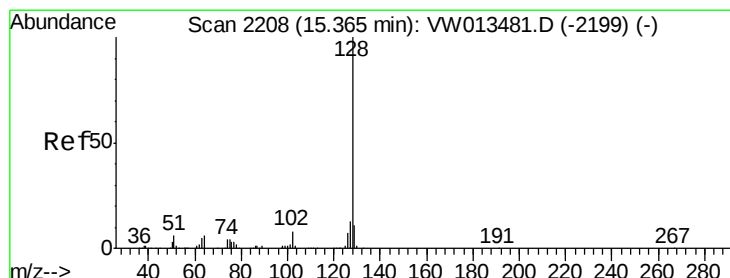
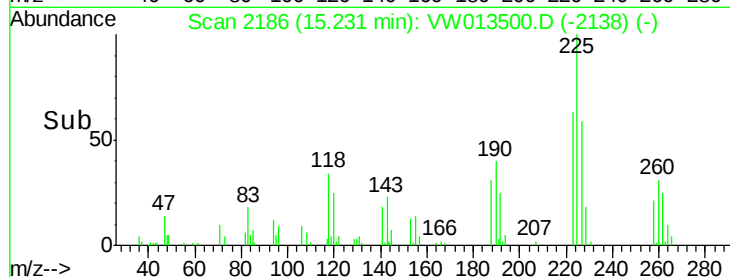
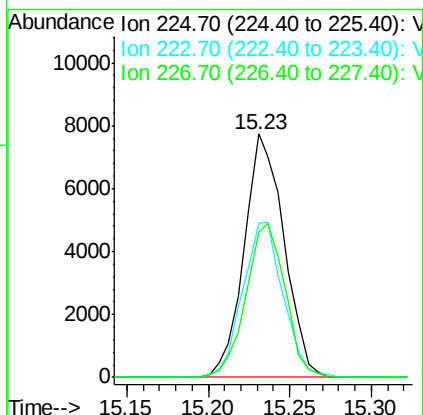
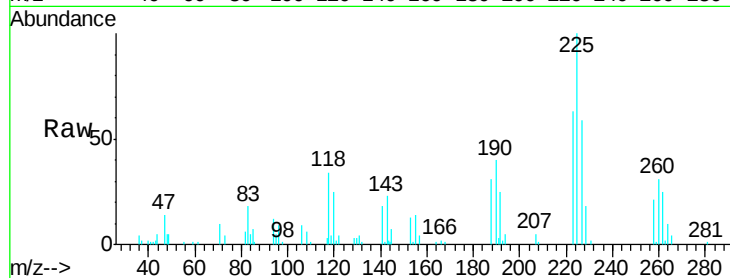
Instrument :

MSVOA_W

ClientSampleId :

MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion:	225	Resp:	13128
Ion	Ratio	Lower	Upper
225	100		
223	64.7	30.3	90.9
227	62.3	32.0	96.0



#95

Naphthalene

Concen: 3.230 ug/l

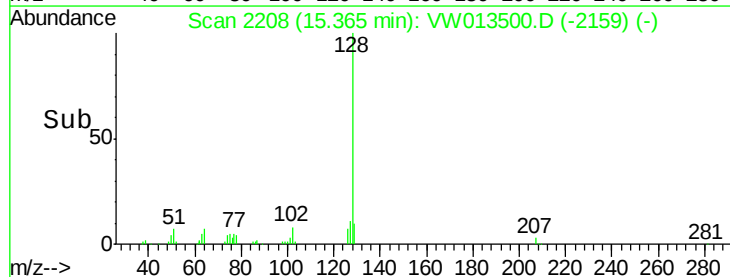
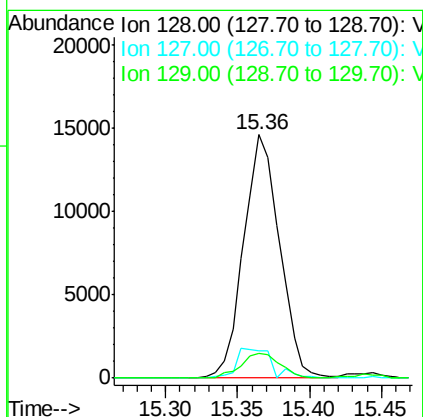
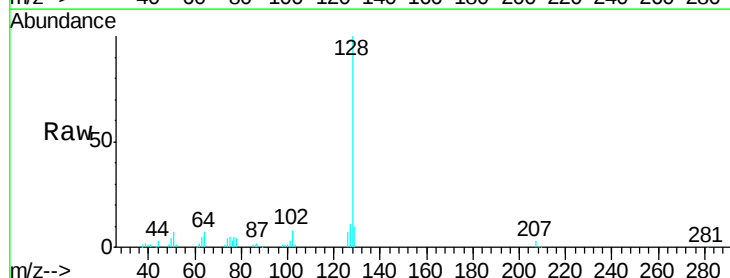
RT: 15.36 min Scan# 2208

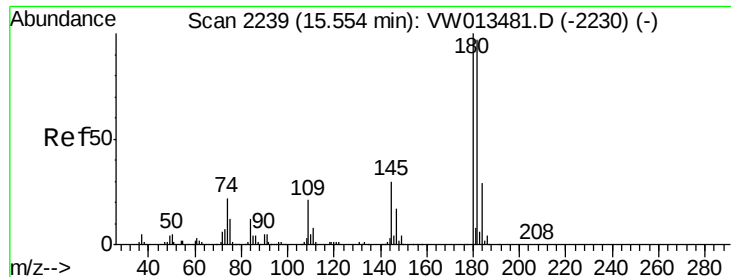
Delta R.T. 0.00 min

Lab File: VW013500.D

Acq: 09 Oct 2019 13:35

Tgt Ion:	128	Resp:	25243
Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.6	16.0
129	11.0	8.8	13.2

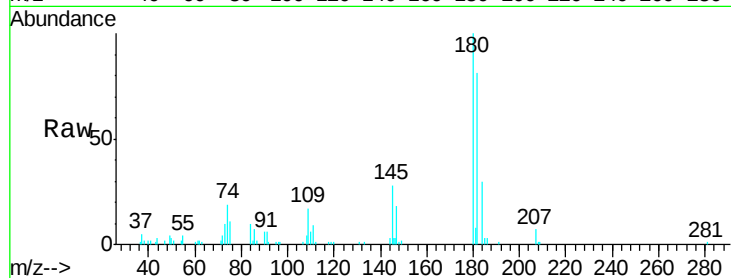




#96
 1,2,3-Trichlorobenzene
 Concen: 3.853 ug/l
 RT: 15.56 min Scan# 2240
 Delta R.T. 0.01 min
 Lab File: VW013500.D
 Acq: 09 Oct 2019 13:35

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion:	180	Resp:	15223
Ion	Ratio	Lower	Upper
180	100		
182	90.2	47.7	143.1
145	28.3	14.9	44.9



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

