

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW100919\
 Data File : VW013499.D
 Acq On : 09 Oct 2019 13:09
 Operator : SY/VA
 Sample : K5111-03 2.5PPBMDL
 Misc : 5.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

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

Quant Time: Oct 10 02:38:18 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	358895	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	515246	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	441277	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	217775	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	142881	51.53	ug/l	0.00
Spiked Amount			Recovery	=	103.06%	
35) Dibromofluoromethane	7.88	113	148477	51.59	ug/l	0.00
Spiked Amount			Recovery	=	103.18%	
50) Toluene-d8	10.32	98	621627	51.40	ug/l	0.00
Spiked Amount			Recovery	=	102.80%	
62) 4-Bromofluorobenzene	12.62	95	208426	51.30	ug/l	0.00
Spiked Amount			Recovery	=	102.60%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	2772	2.332	ug/l	94
3) Chloromethane	2.21	50	6530	3.125	ug/l	99
4) Vinyl Chloride	2.36	62	8232	2.671	ug/l	92
5) Bromomethane	2.78	94	5425	2.950	ug/l	95
6) Chloroethane	2.92	64	4806	2.776	ug/l	99
7) Trichlorofluoromethane	3.26	101	4215	2.890	ug/l	95
8) Diethyl Ether	3.68	74	4341	2.876	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	4.06	101	8451	2.812	ug/l	96
10) Methyl Iodide	4.27	142	12906	2.712	ug/l	100
11) Tert butyl alcohol	5.18	59	3847	Below Cal	#	86
12) 1,1-Dichloroethene	4.04	96	8260	2.652	ug/l #	91
13) Acrolein	3.90	56	577	6.020	ug/l	89
14) Allyl chloride	4.66	41	13157	2.749	ug/l	98
15) Acrylonitrile	5.37	53	9082	12.873	ug/l	97
16) Acetone	4.13	43	10700	16.583	ug/l	98
17) Carbon Disulfide	4.38	76	23392	2.675	ug/l	99
18) Methyl Acetate	4.67	43	5767	3.120	ug/l #	51
19) Methyl tert-butyl Ether	5.42	73	13344	2.833	ug/l	95
20) Methylene Chloride	4.91	84	19399	2.375	ug/l	96
21) trans-1,2-Dichloroethene	5.41	96	9352	2.825	ug/l	88
22) Diisopropyl ether	6.31	45	24278	2.707	ug/l	96
23) Vinyl Acetate	6.25	43	63224	11.742	ug/l	97
24) 1,1-Dichloroethane	6.22	63	15398	2.809	ug/l	96
25) 2-Butanone	7.18	43	13121	13.798	ug/l	91
26) 2,2-Dichloropropane	7.16	77	12111	3.427	ug/l	89
27) cis-1,2-Dichloroethene	7.17	96	9587	2.737	ug/l	91
28) Bromochloromethane	7.51	49	5413	4.790	ug/l #	99
29) Tetrahydrofuran	7.54	42	7097	12.211	ug/l	96
30) Chloroform	7.67	83	15922	3.003	ug/l	90
31) Cyclohexane	7.95	56	20732	3.573	ug/l #	52
32) 1,1,1-Trichloroethane	7.87	97	11752	2.726	ug/l	99
36) 1,1-Dichloropropene	8.08	75	12973	2.783	ug/l	96
37) Ethyl Acetate	7.26	43	5564	2.631	ug/l #	92
38) Carbon Tetrachloride	8.07	117	11054	2.675	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	17076	2.828	ug/l	98
40) Benzene	8.32	78	36412	2.799	ug/l	96
41) Methacrylonitrile	7.48	41	2878	2.393	ug/l #	94
42) 1,2-Dichloroethane	8.40	62	9520	2.895	ug/l	98
43) Isopropyl Acetate	8.43	43	9387	2.457	ug/l	98
44) Trichloroethene	9.09	130	10473	2.822	ug/l	96
45) 1,2-Dichloropropane	9.37	63	8668	2.776	ug/l	96
46) Dibromomethane	9.46	93	4215	2.709	ug/l	98
47) Bromodichloromethane	9.65	83	10517	2.719	ug/l	97
48) Methyl methacrylate	9.44	41	4178	2.220	ug/l	91
49) 1,4-Dioxane	9.46	88	498	18.230	ug/l #	12
51) 4-Methyl-2-Pentanone	10.21	43	26830	13.357	ug/l	98
52) Toluene	10.38	92	25028	2.986	ug/l	96
53) t-1,3-Dichloropropene	10.60	75	10762	2.678	ug/l	92
54) cis-1,3-Dichloropropene	10.07	75	12811	2.631	ug/l #	88
55) 1,1,2-Trichloroethane	10.79	97	6403	2.742	ug/l #	92
56) Ethyl methacrylate	10.65	69	7730	2.458	ug/l	96
57) 1,3-Dichloropropane	10.93	76	10781	2.689	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.93	63	15819	10.661	ug/l	97
59) 2-Hexanone	10.97	43	15531	11.276	ug/l	97
60) Dibromochloromethane	11.13	129	6790	2.528	ug/l	91
61) 1,2-Dibromoethane	11.23	107	5743	2.586	ug/l	96
64) Tetrachloroethene	10.86	164	9085	2.797	ug/l	96
65) Chlorobenzene	11.66	112	25065	2.859	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	8157	2.678	ug/l	96
67) Ethyl Benzene	11.73	91	43465	2.712	ug/l	98
68) m/p-Xylenes	11.84	106	33554	5.503	ug/l	98
69) o-Xylene	12.16	106	15635	2.775	ug/l	98
70) Styrene	12.18	104	24464	2.529	ug/l	96
71) Bromoform	12.35	173	4022	2.407	ug/l #	94
73) Isopropylbenzene	12.46	105	42311	2.712	ug/l	100
74) N-amyl acetate	12.27	43	8224	2.411	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.71	83	6980	2.625	ug/l	99
76) 1,2,3-Trichloropropane	12.76	75	8483	4.677	ug/l #	100
77) Bromobenzene	12.74	156	10331	2.794	ug/l	97
78) n-propylbenzene	12.80	91	48902	2.711	ug/l	96
79) 2-Chlorotoluene	12.89	91	29273	2.897	ug/l	97
80) 1,3,5-Trimethylbenzene	12.94	105	35926	2.772	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.62	75	97228	109.579	ug/l #	14
82) 4-Chlorotoluene	12.99	91	30358	2.894	ug/l	99
83) tert-Butylbenzene	13.21	119	31015	2.694	ug/l	98
84) 1,2,4-Trimethylbenzene	13.25	105	36582	2.854	ug/l	99
85) sec-Butylbenzene	13.38	105	43356	2.726	ug/l	99
86) p-Isopropyltoluene	13.50	119	39603	2.710	ug/l	97
87) 1,3-Dichlorobenzene	13.49	146	19853	2.832	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	19899	2.897	ug/l	86
89) n-Butylbenzene	13.82	91	36276	2.748	ug/l	98
90) Hexachloroethane	14.09	117	7147	2.858	ug/l	93
91) 1,2-Dichlorobenzene	13.87	146	17731	2.864	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	926	2.185	ug/l	94

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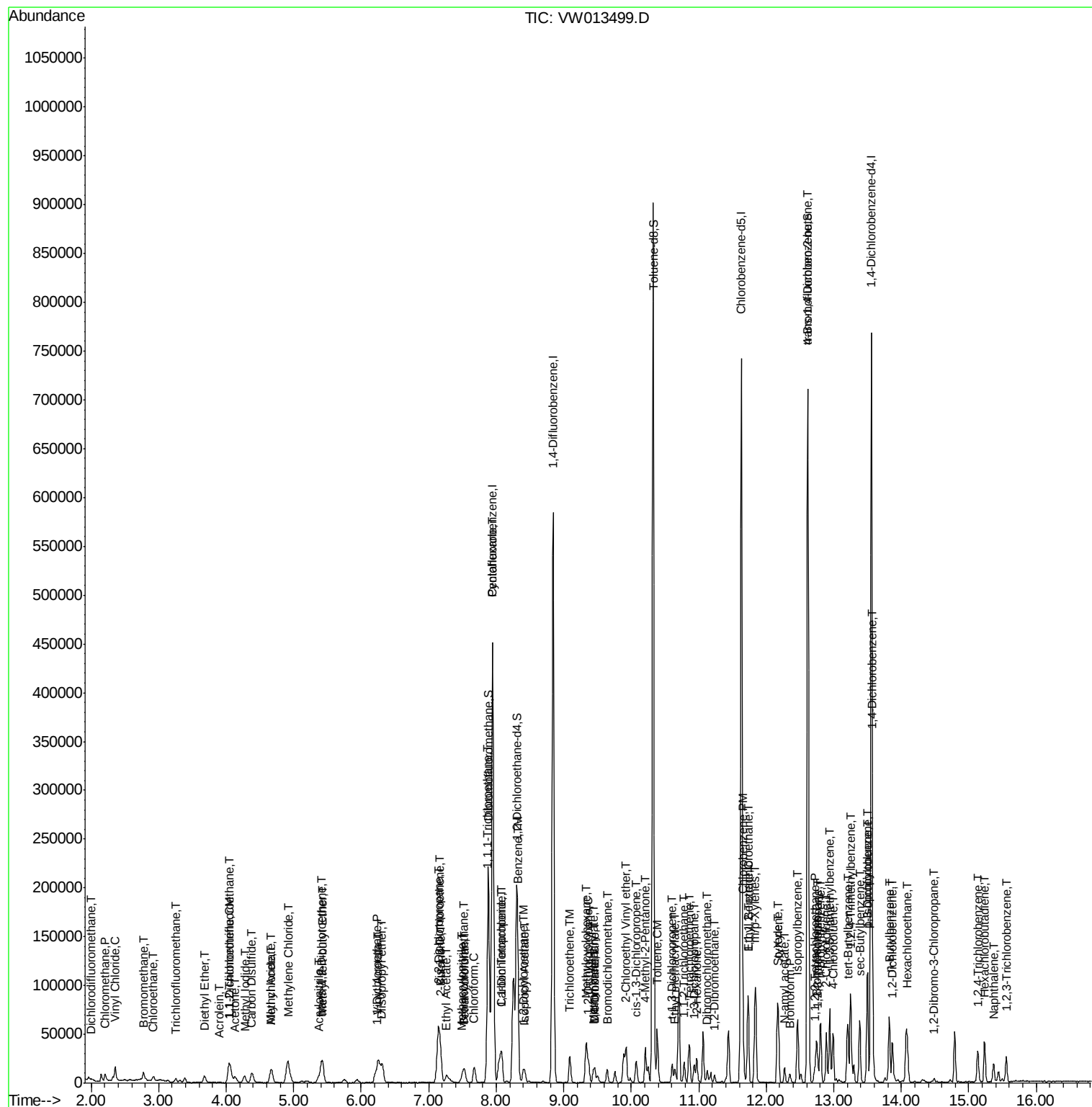
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	11719	2.679	ug/l	99
94) Hexachlorobutadiene	15.23	225	8618	2.964	ug/l	93
95) Naphthalene	15.36	128	16503	2.181	ug/l	97
96) 1,2,3-Trichlorobenzene	15.56	180	10406	2.720	ug/l	98

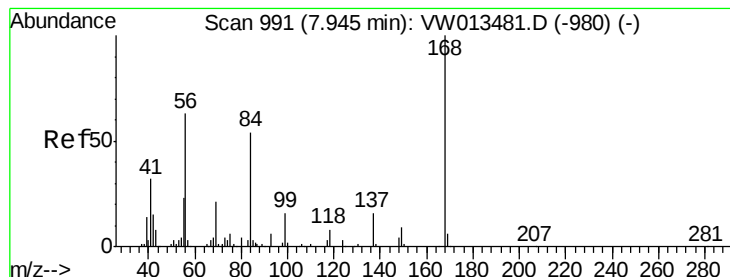
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

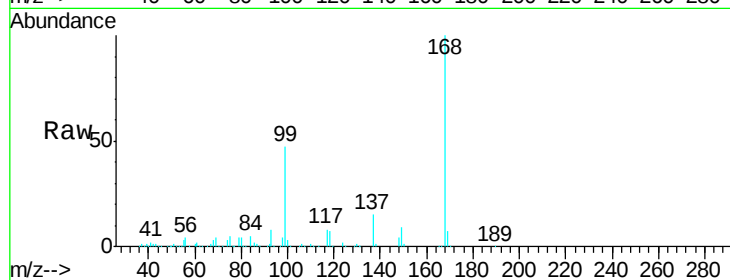
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion:168 Resp: 358895

Ion Ratio Lower Upper

168 100

99 47.4 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

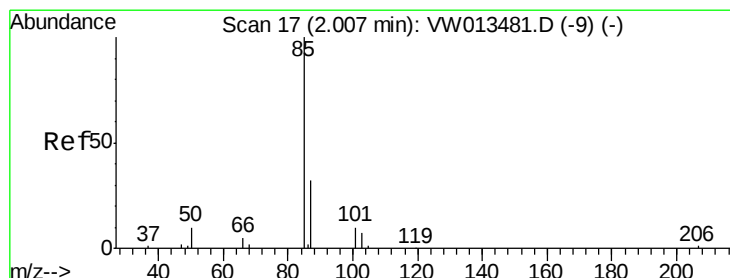
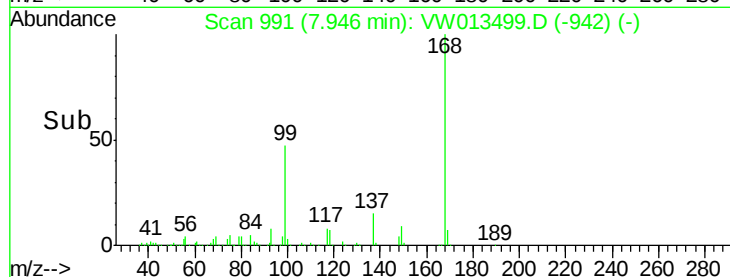
150000

100000

50000

0

Time--> 7.80 7.90 8.00



#2

Dichlorodifluoromethane

Concen: 2.332 ug/l

RT: 2.01 min Scan# 17

Delta R.T. 0.00 min

Lab File: VW013499.D

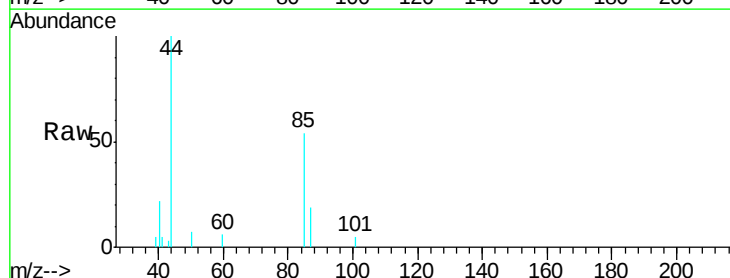
Acq: 09 Oct 2019 13:09

Tgt Ion: 85 Resp: 2772

Ion Ratio Lower Upper

85 100

87 34.9 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

1000

800

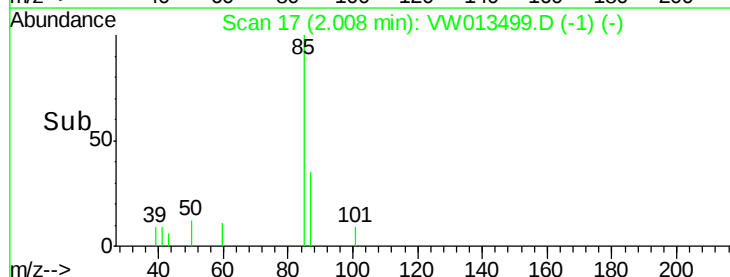
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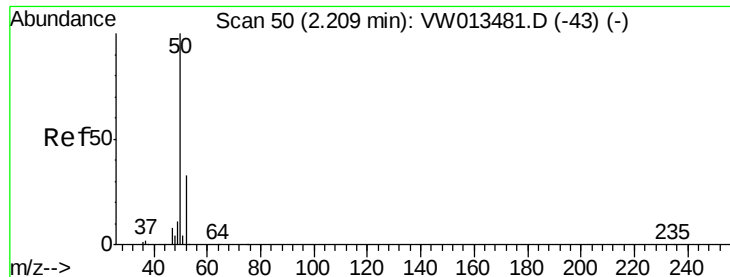
400

200

0

Time--> 1.95 2.00 2.05 2.10





#3

Chloromethane

Concen: 3.125 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

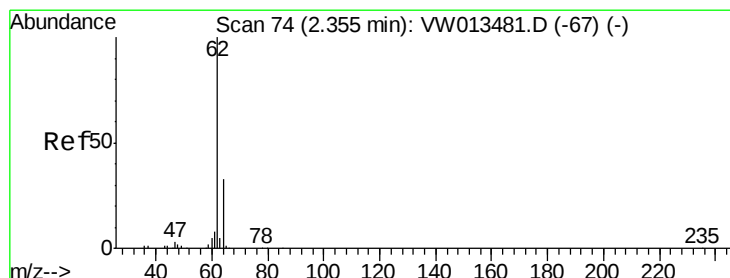
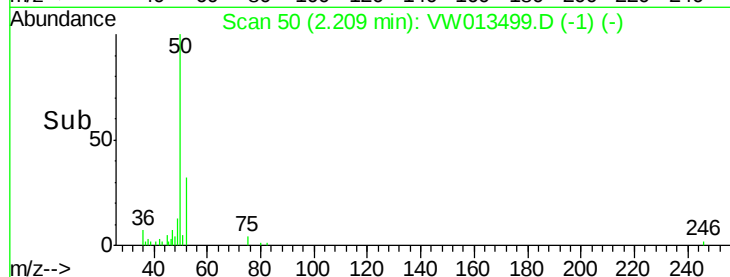
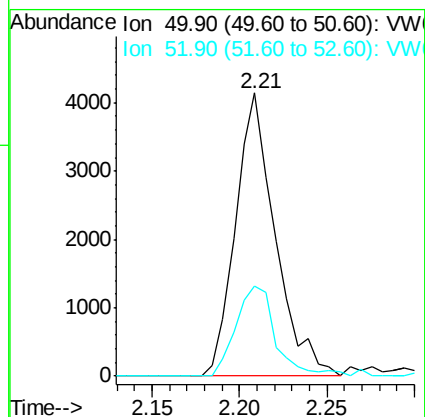
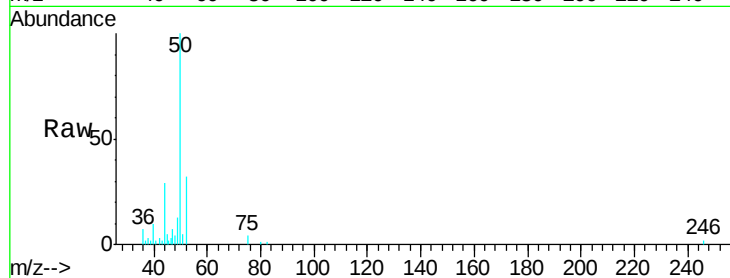
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 50 Resp: 6530

Ion Ratio Lower Upper

50 100

52 31.9 26.0 39.0



#4

Vinyl Chloride

Concen: 2.671 ug/l

RT: 2.36 min Scan# 74

Delta R.T. 0.00 min

Lab File: VW013499.D

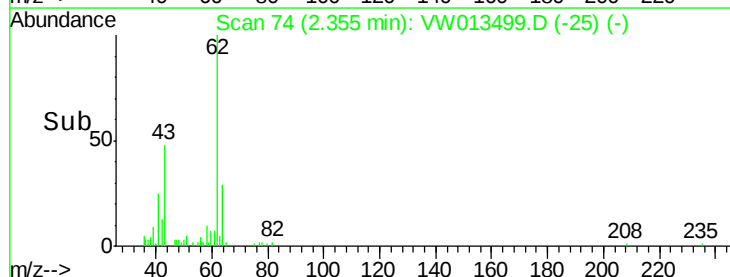
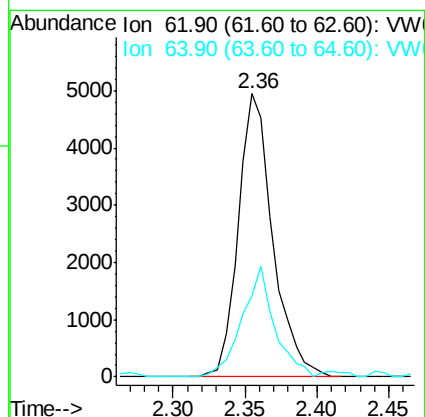
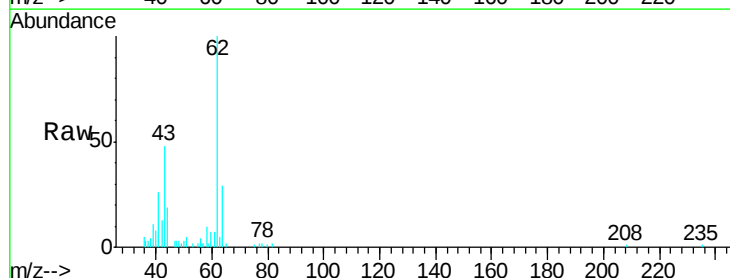
Acq: 09 Oct 2019 13:09

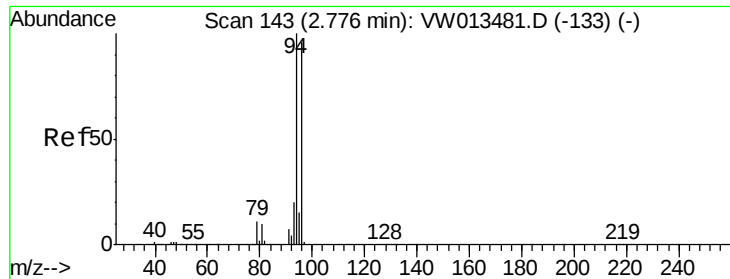
Tgt Ion: 62 Resp: 8232

Ion Ratio Lower Upper

62 100

64 28.7 26.6 39.8





#5

Bromomethane

Concen: 2.950 ug/l

RT: 2.78 min Scan# 143

Delta R.T. 0.00 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

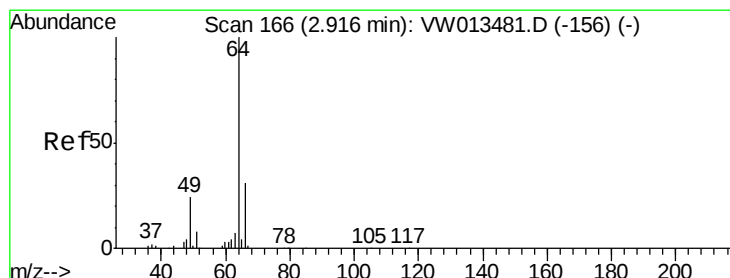
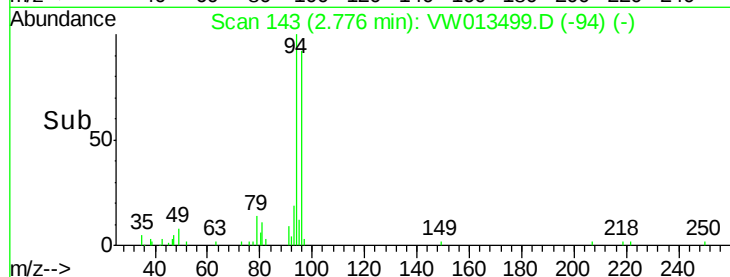
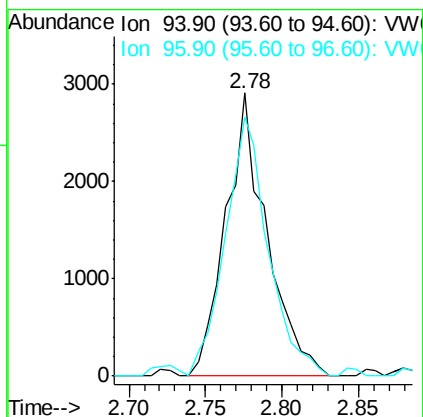
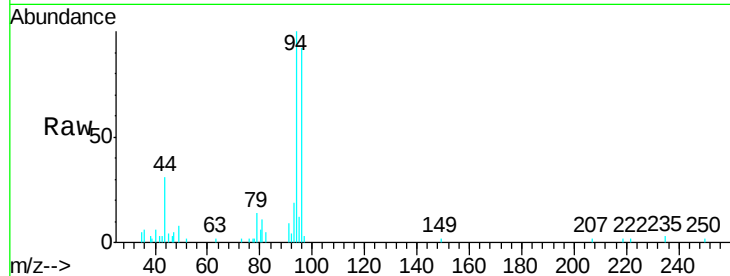
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 94 Resp: 5425

Ion Ratio Lower Upper

94 100

96 91.5 77.0 115.6



#6

Chloroethane

Concen: 2.776 ug/l

RT: 2.92 min Scan# 166

Delta R.T. 0.00 min

Lab File: VW013499.D

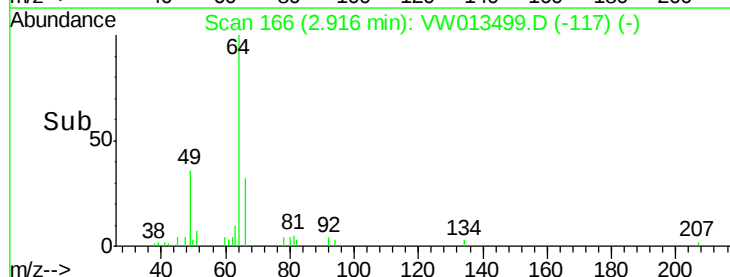
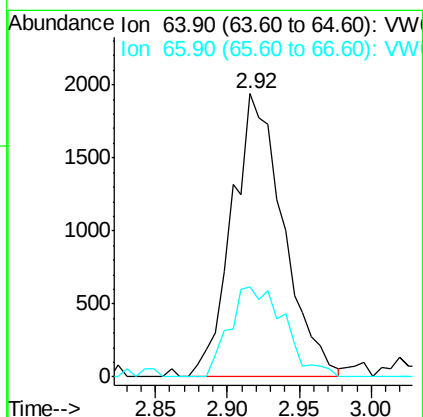
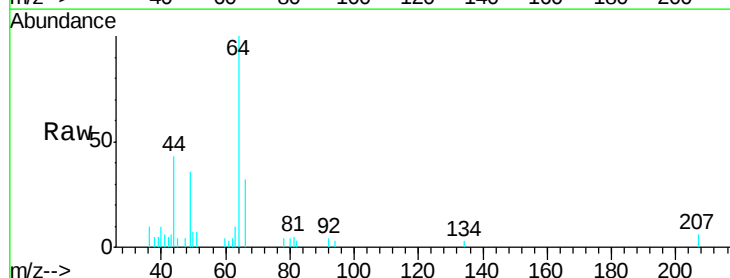
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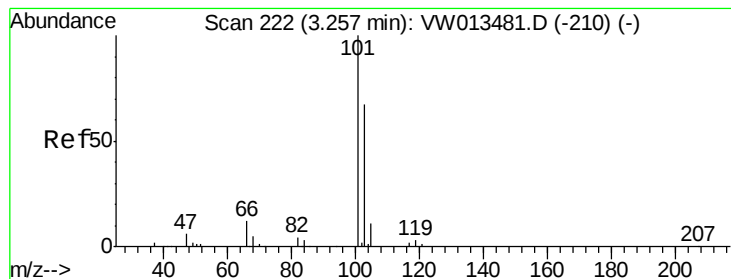
Tgt Ion: 64 Resp: 4806

Ion Ratio Lower Upper

64 100

66 31.9 25.0 37.4



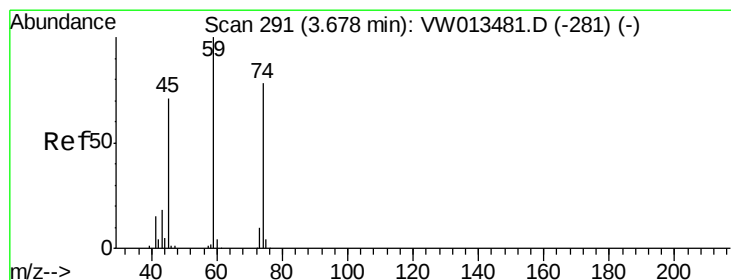
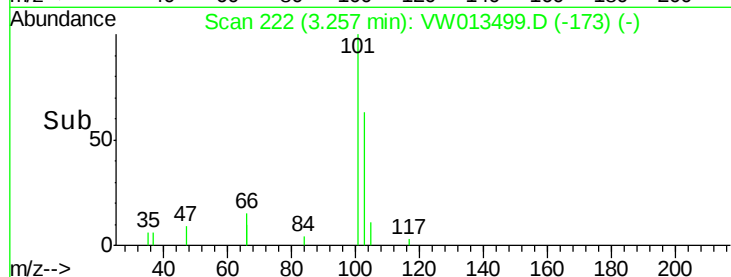
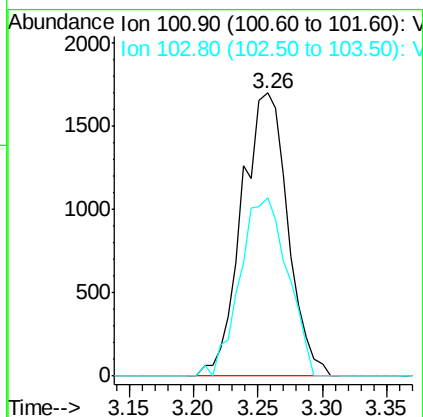
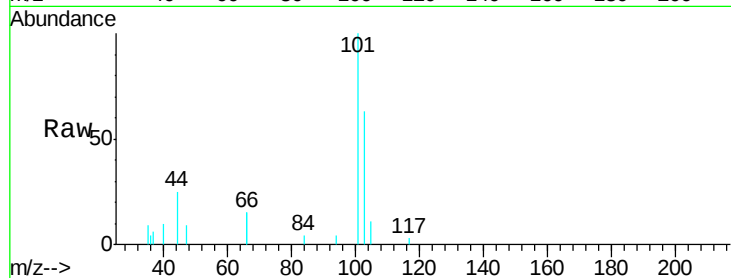


#7

Trichlorofluoromethane
 Concen: 2.890 ug/l
 RT: 3.26 min Scan# 222
 Delta R.T. 0.00 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

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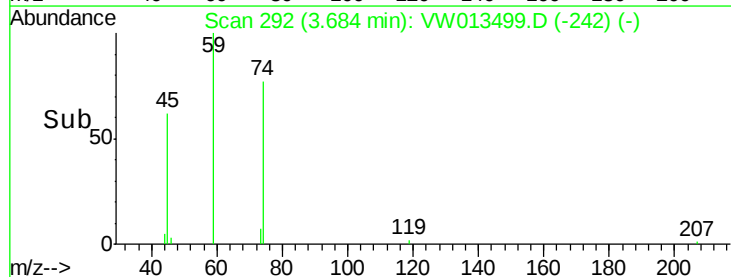
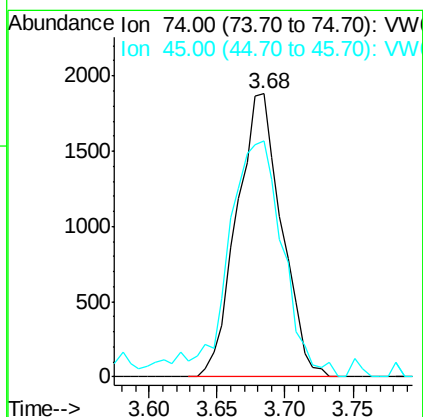
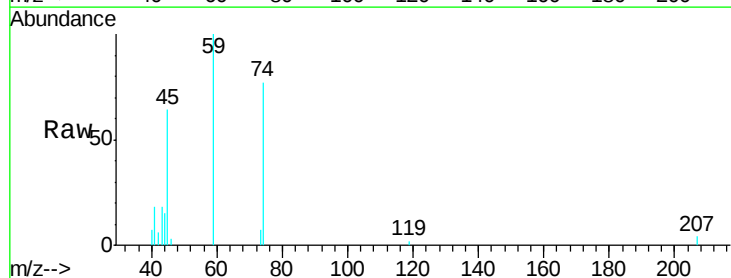
Tgt Ion: 101 Resp: 4215
 Ion Ratio Lower Upper
 101 100
 103 63.1 53.7 80.5

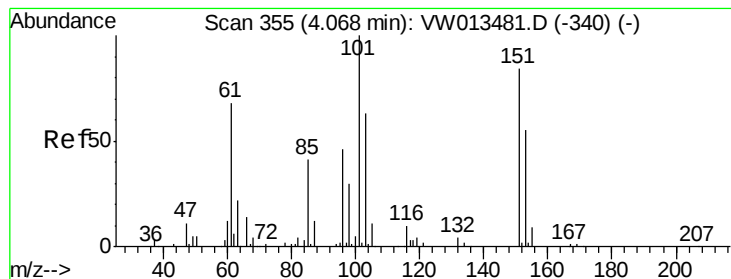


#8

Diethyl Ether
 Concen: 2.876 ug/l
 RT: 3.68 min Scan# 292
 Delta R.T. 0.01 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

Tgt Ion: 74 Resp: 4341
 Ion Ratio Lower Upper
 74 100
 45 104.3 50.0 150.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.812 ug/l

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

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

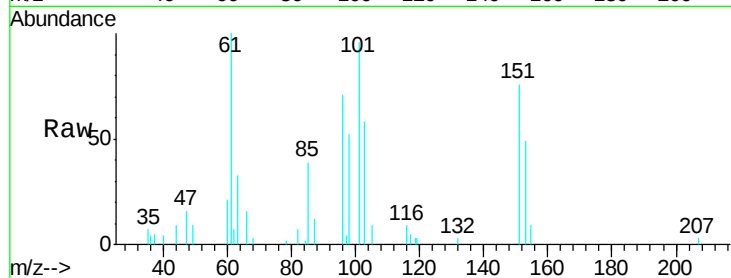
Tgt Ion:101 Resp: 8451

Ion Ratio Lower Upper

101 100

85 41.7 31.6 47.4

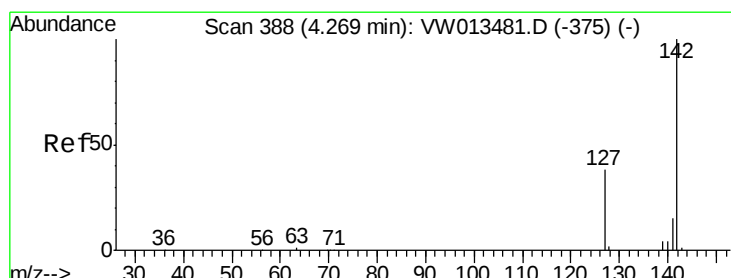
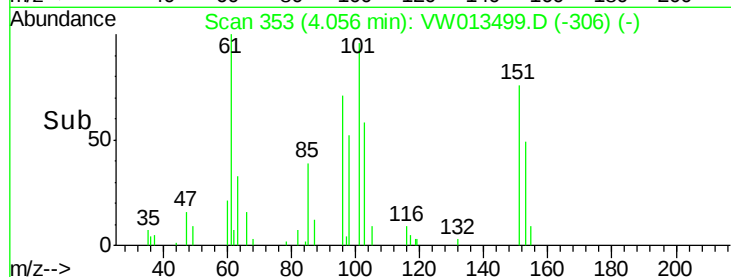
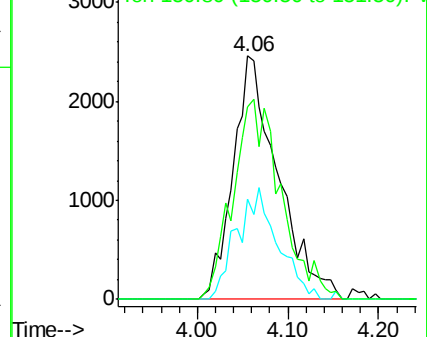
151 88.2 67.5 101.3



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: 2.712 ug/l

RT: 4.27 min Scan# 388

Delta R.T. 0.00 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

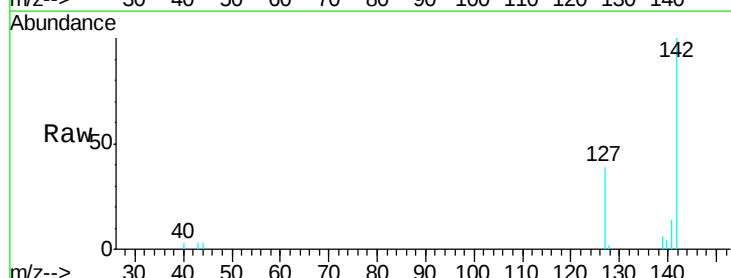
Tgt Ion:142 Resp: 12906

Ion Ratio Lower Upper

142 100

127 37.3 29.6 44.4

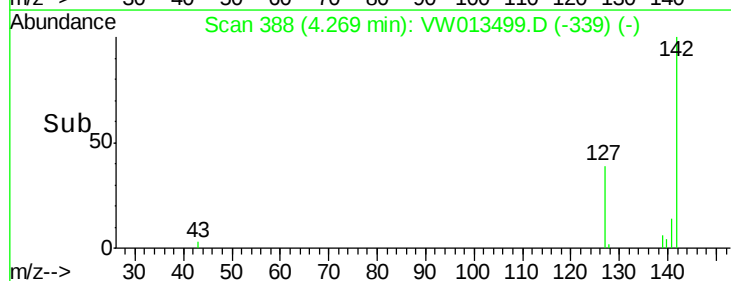
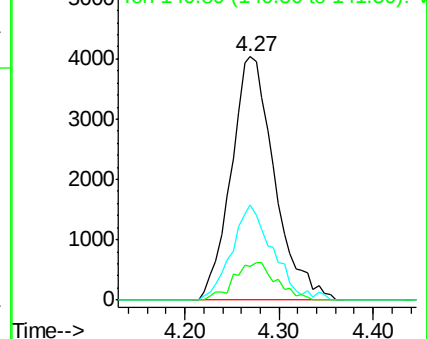
141 15.1 12.1 18.1

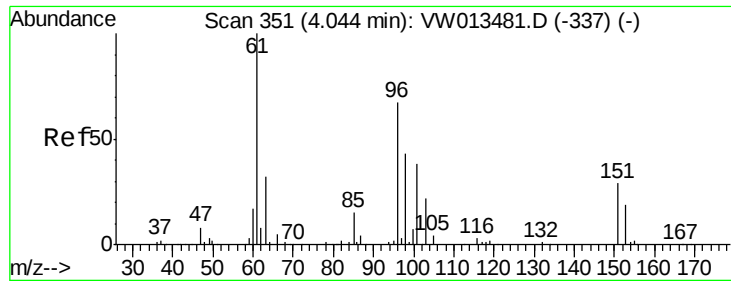


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





#12

1,1-Dichloroethene

Concen: 2.652 ug/l

RT: 4.04 min Scan# 350

Delta R.T. -0.01 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

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

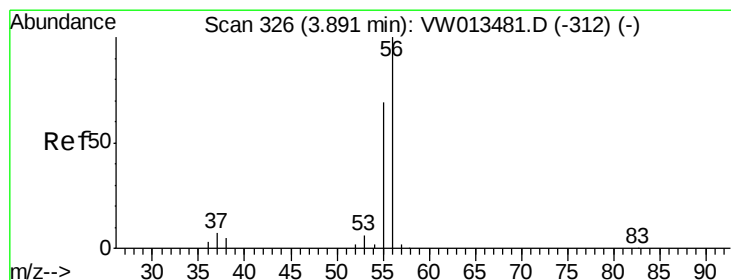
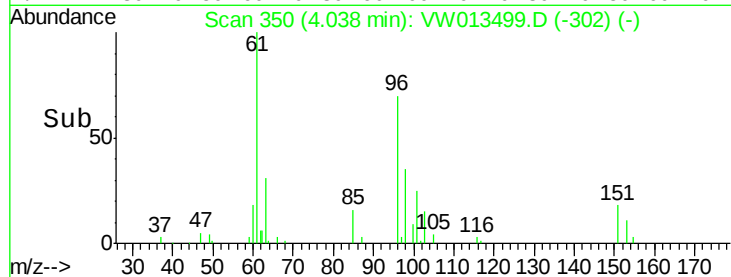
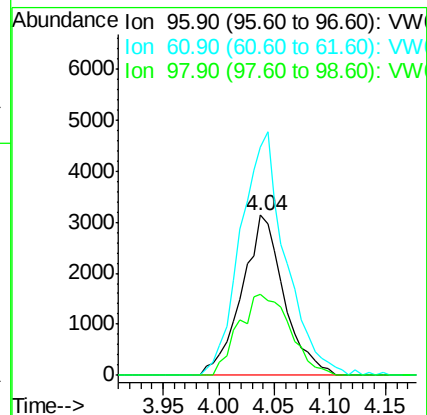
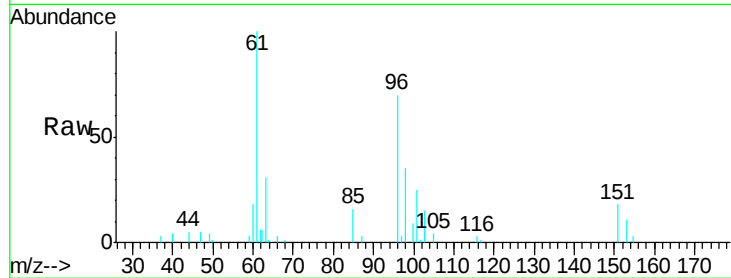
Tgt Ion: 96 Resp: 8260

Ion Ratio Lower Upper

96 100

61 142.6 119.4 179.0

98 50.5 51.1 76.7#



#13

Acrolein

Concen: 6.020 ug/l

RT: 3.90 min Scan# 328

Delta R.T. 0.01 min

Lab File: VW013499.D

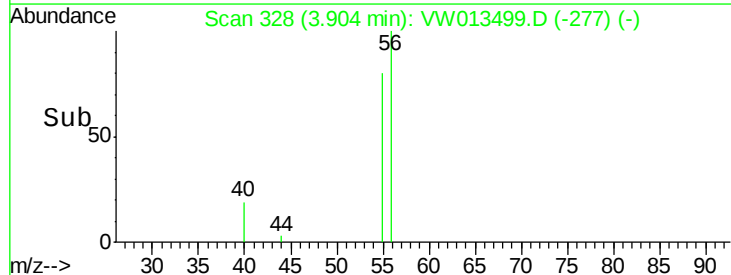
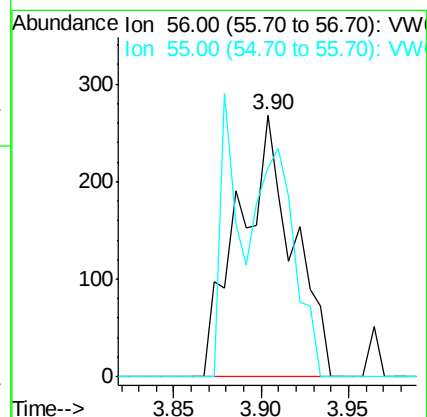
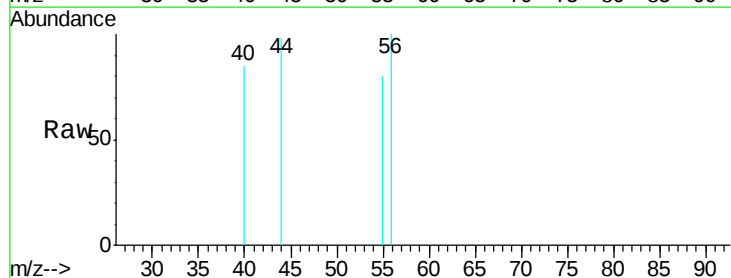
Acq: 09 Oct 2019 13:09

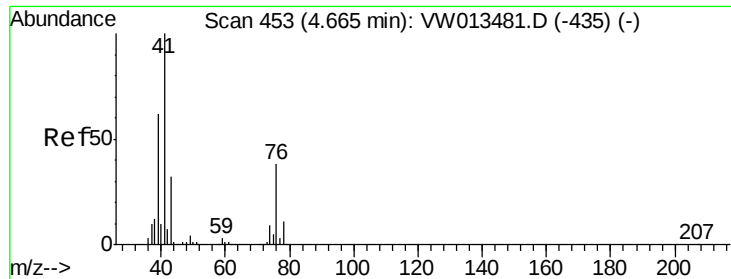
Tgt Ion: 56 Resp: 577

Ion Ratio Lower Upper

56 100

55 60.7 55.9 83.9

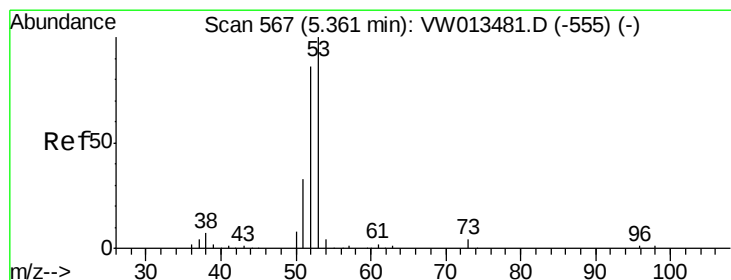
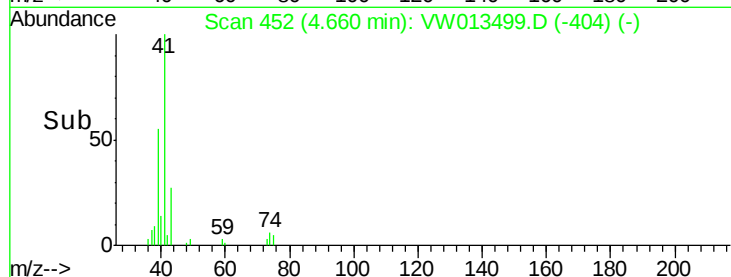
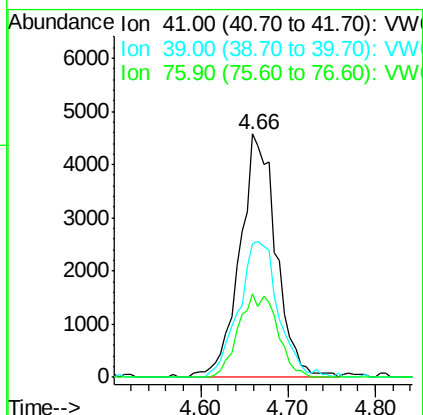
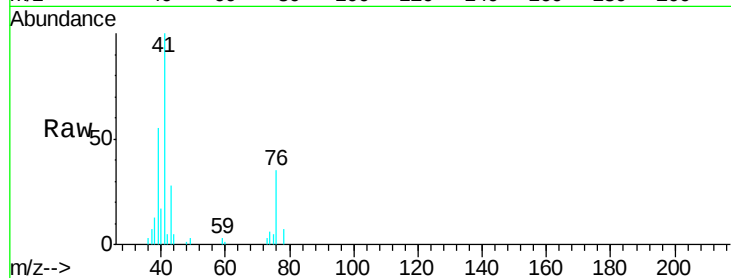




#14
 Allyl chloride
 Concen: 2.749 ug/l
 RT: 4.66 min Scan# 452
 Delta R.T. -0.01 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

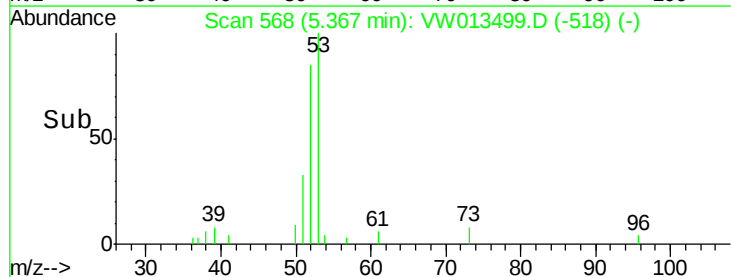
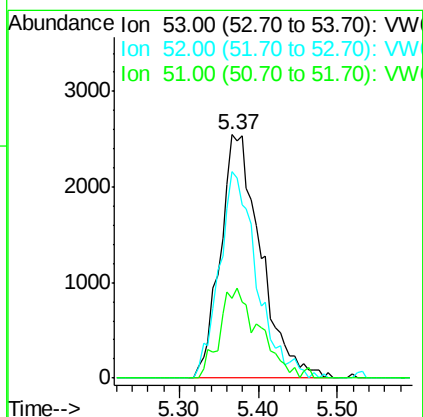
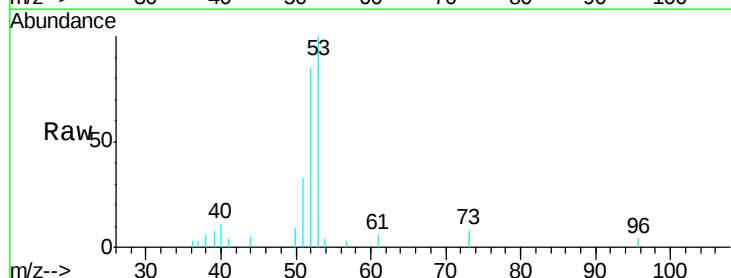
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

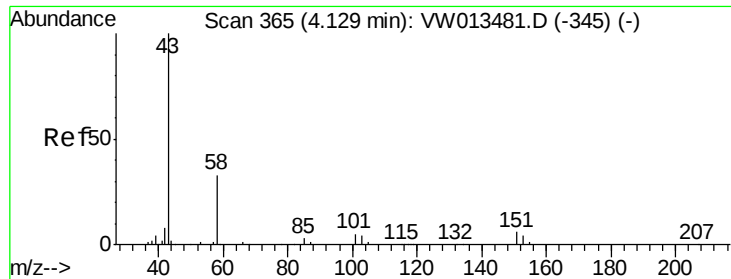
Tgt Ion: 41 Resp: 13157
 Ion Ratio Lower Upper
 41 100
 39 60.4 50.1 75.1
 76 36.7 29.0 43.4



#15
 Acrylonitrile
 Concen: 12.873 ug/l
 RT: 5.37 min Scan# 568
 Delta R.T. 0.01 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

Tgt Ion: 53 Resp: 9082
 Ion Ratio Lower Upper
 53 100
 52 78.7 65.8 98.8
 51 36.1 28.6 42.8





#16

Acetone

Concen: 16.583 ug/l

RT: 4.13 min Scan# 365

Delta R.T. 0.00 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

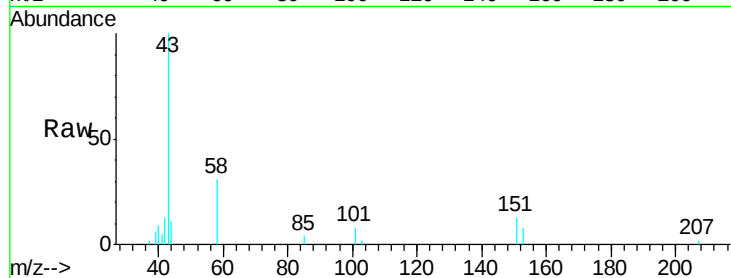
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 43 Resp: 10700

Ion Ratio Lower Upper

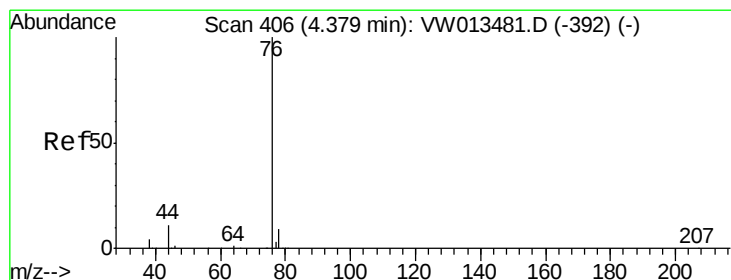
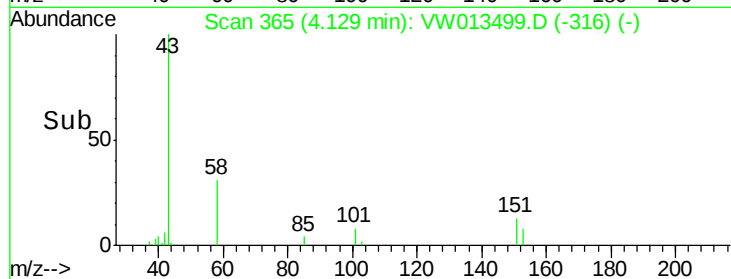
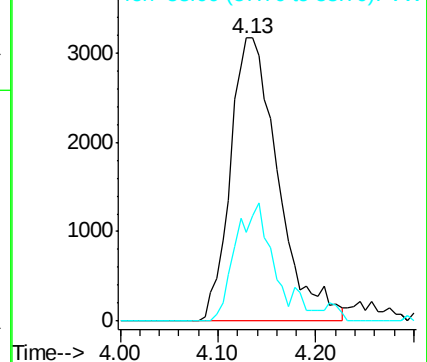
43 100

58 31.3 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#17

Carbon Disulfide

Concen: 2.675 ug/l

RT: 4.38 min Scan# 406

Delta R.T. 0.00 min

Lab File: VW013499.D

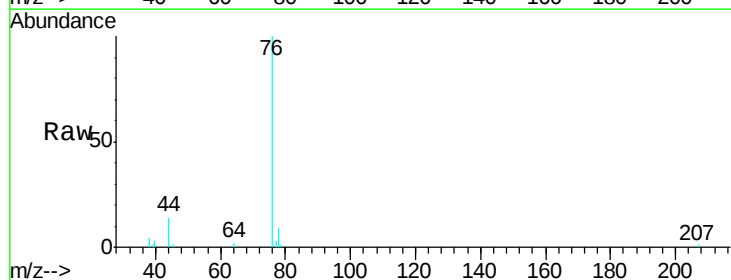
Acq: 09 Oct 2019 13:09

Tgt Ion: 76 Resp: 23392

Ion Ratio Lower Upper

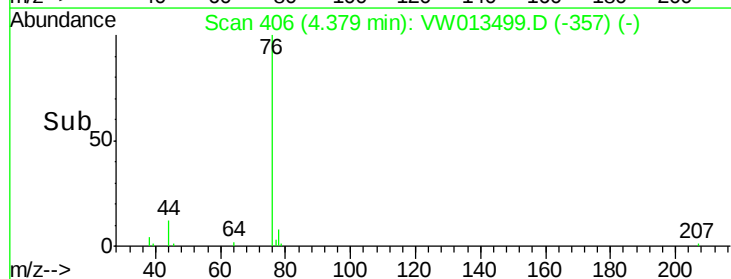
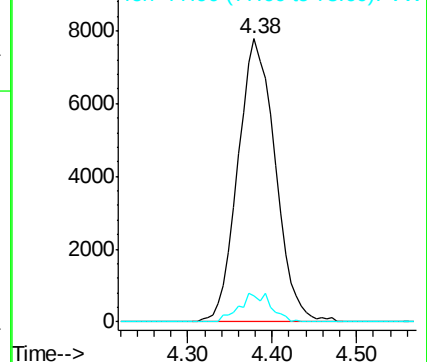
76 100

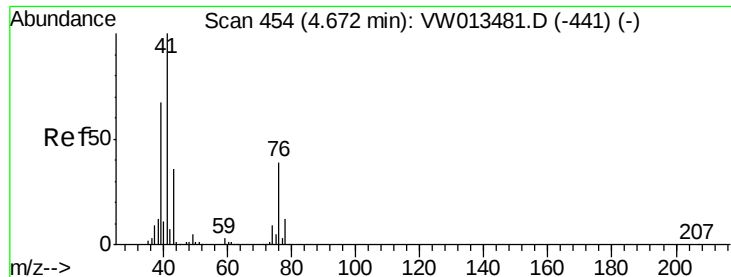
78 9.1 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW

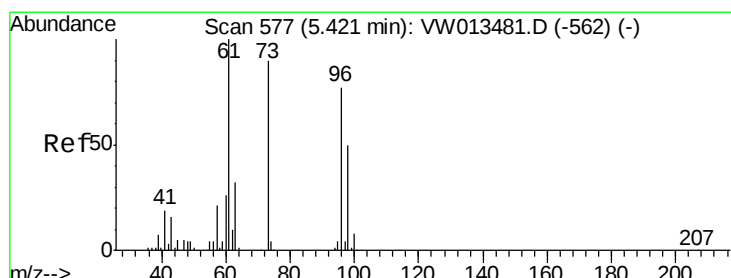
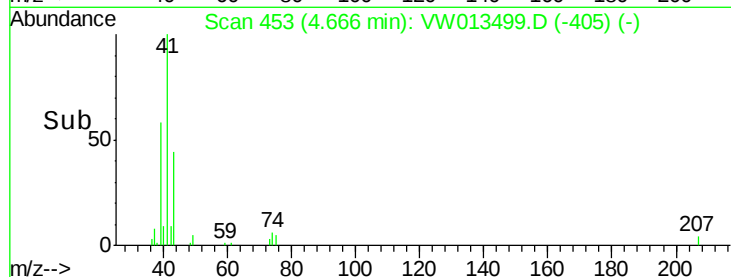
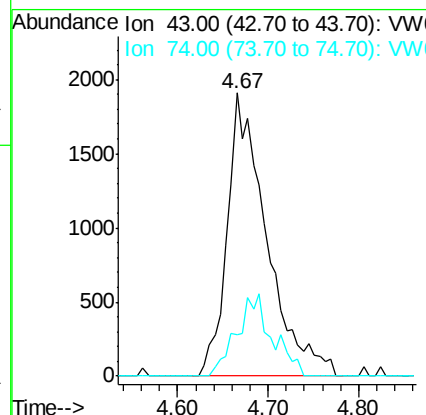
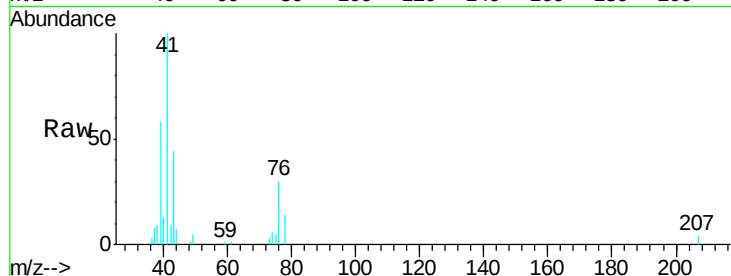




#18
Methyl Acetate
Concen: 3.120 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.01 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

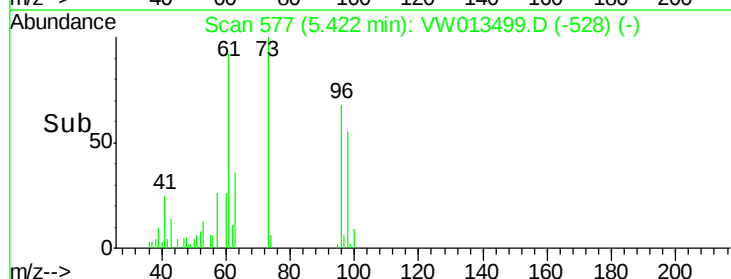
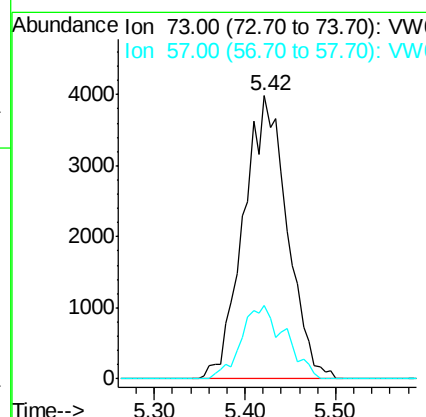
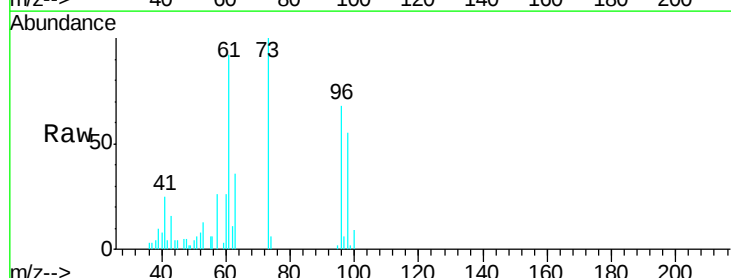
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

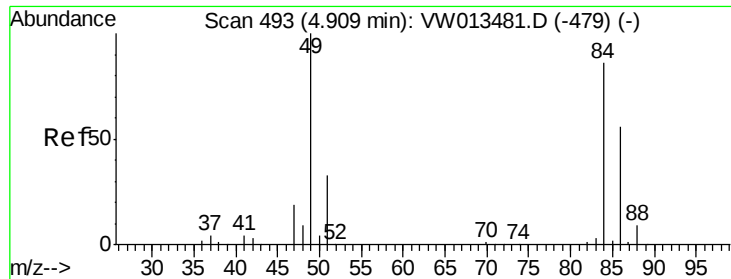
Tgt Ion: 43 Resp: 5767
Ion Ratio Lower Upper
43 100
74 0.0 19.6 29.4#



#19
Methyl tert-butyl Ether
Concen: 2.833 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

Tgt Ion: 73 Resp: 13344
Ion Ratio Lower Upper
73 100
57 25.8 18.6 27.8

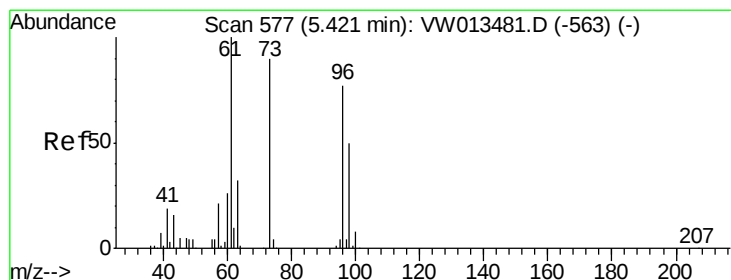
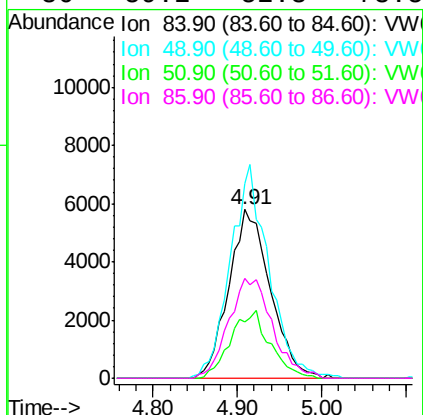
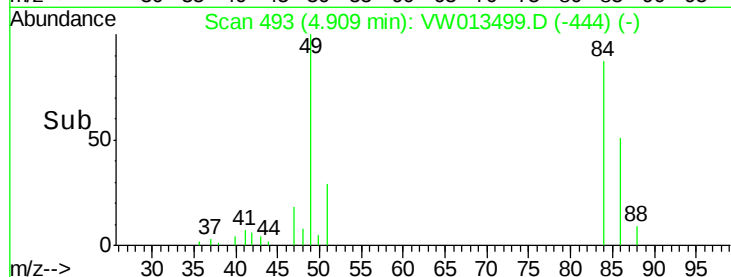
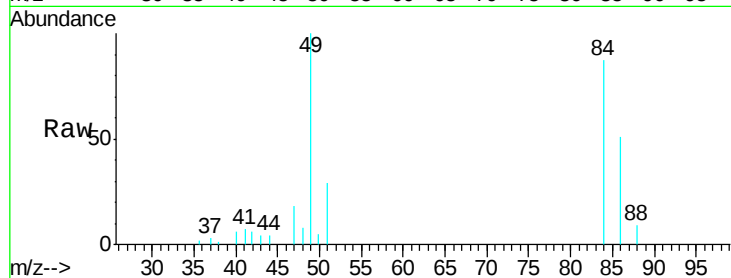




#20
Methylene Chloride
Concen: 2.375 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

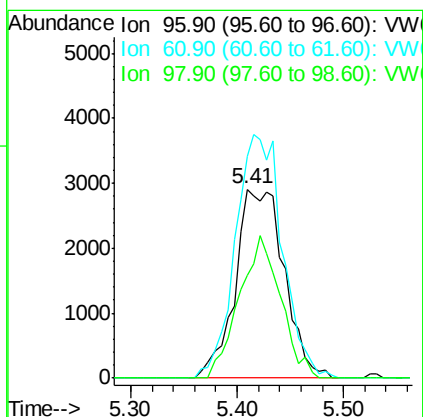
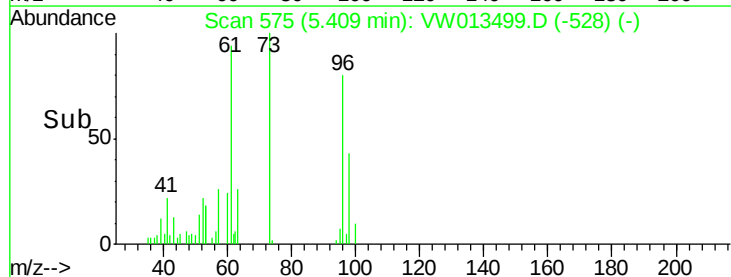
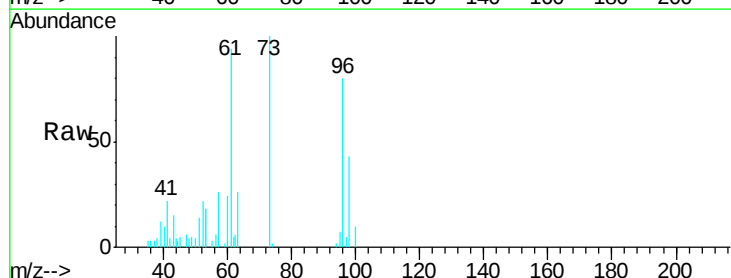
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

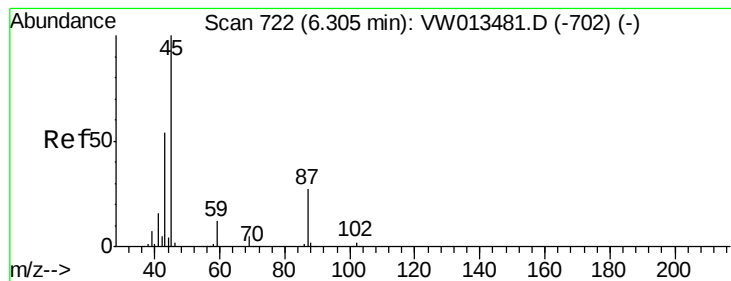
Tgt Ion:	84	Resp:	19399
Ion	Ratio	Lower	Upper
84	100		
49	115.2	93.4	140.0
51	33.8	30.6	46.0
86	59.2	52.3	78.5



#21
trans-1,2-Dichloroethene
Concen: 2.825 ug/l
RT: 5.41 min Scan# 575
Delta R.T. -0.01 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

Tgt Ion:	96	Resp:	9352
Ion	Ratio	Lower	Upper
96	100		
61	117.3	104.3	156.5
98	54.2	51.8	77.8



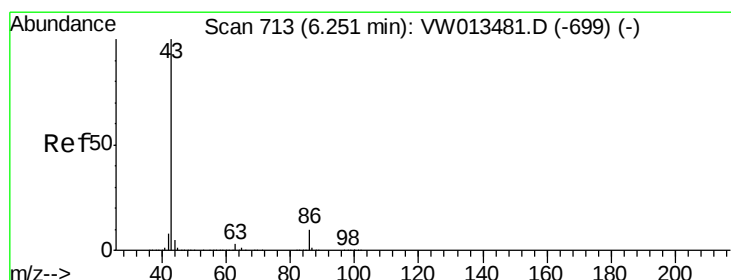
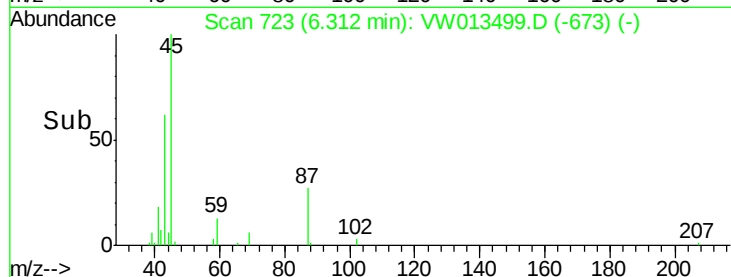
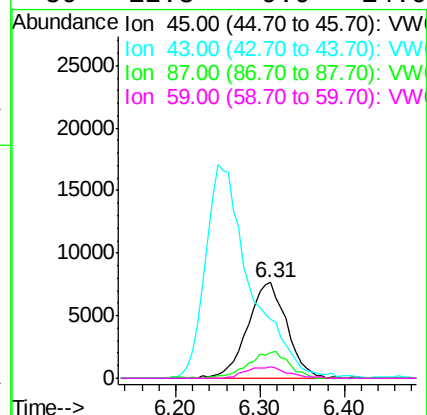
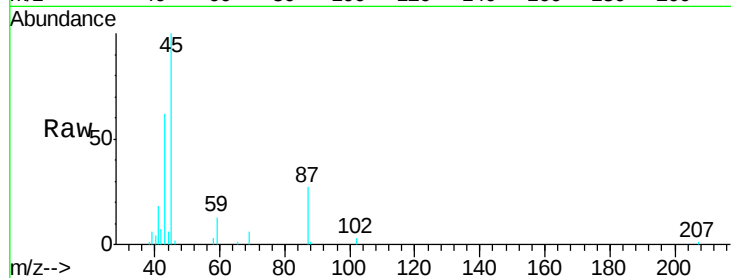


#22

Diisopropyl ether
 Concen: 2.707 ug/l
 RT: 6.31 min Scan# 723
 Delta R.T. 0.01 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

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

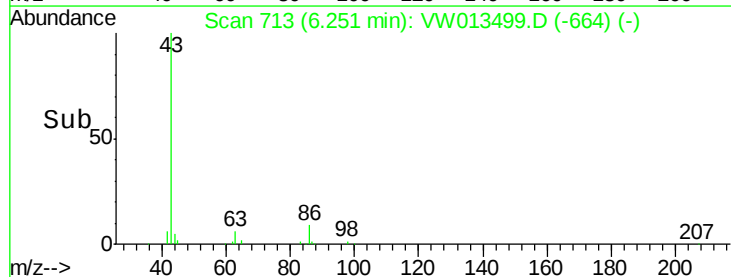
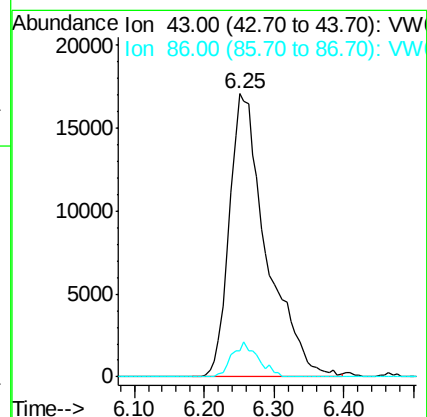
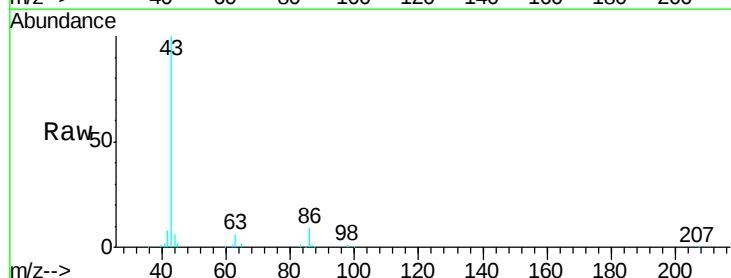
Tgt Ion:	45	Resp:	24278
Ion	Ratio	Lower	Upper
45	100		
43	58.9	43.4	65.0
87	26.7	22.1	33.1
59	12.8	9.9	14.9

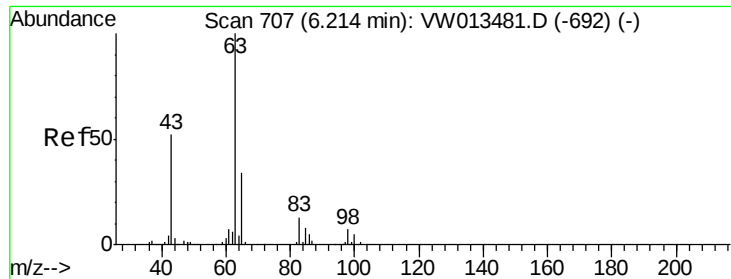


#23

Vinyl Acetate
 Concen: 11.742 ug/l
 RT: 6.25 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

Tgt Ion:	43	Resp:	63224
Ion	Ratio	Lower	Upper
43	100		
86	9.4	8.3	12.5





#24

1,1-Dichloroethane

Concen: 2.809 ug/l

RT: 6.22 min Scan# 708

Delta R.T. 0.01 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

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

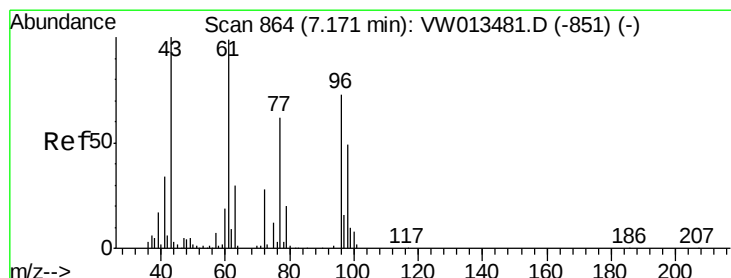
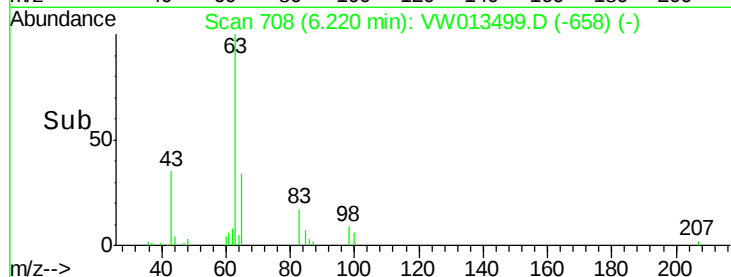
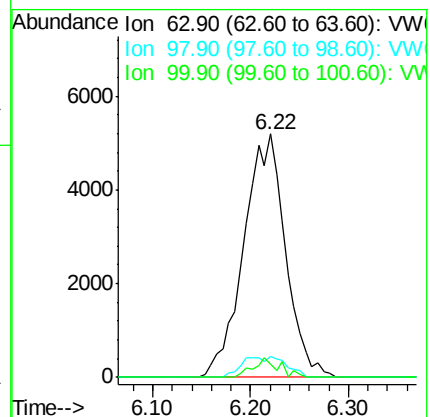
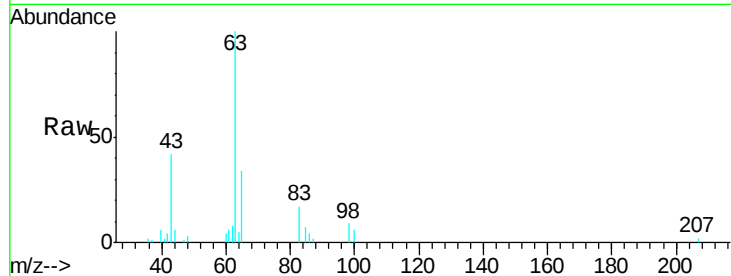
Tgt Ion: 63 Resp: 15398

Ion Ratio Lower Upper

63 100

98 8.6 3.5 10.6

100 5.7 2.3 6.8



#25

2-Butanone

Concen: 13.798 ug/l

RT: 7.18 min Scan# 865

Delta R.T. 0.01 min

Lab File: VW013499.D

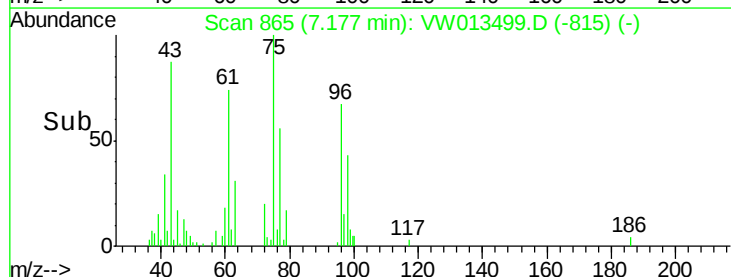
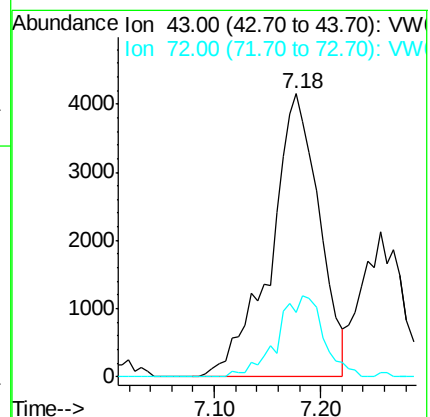
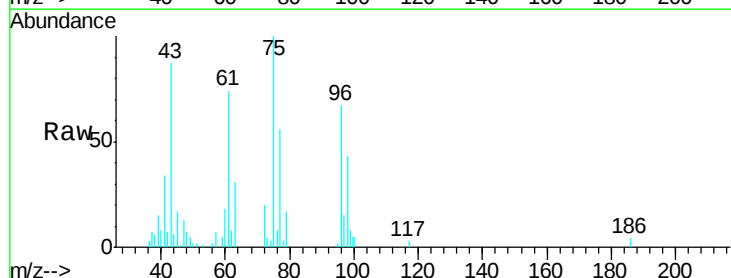
Acq: 09 Oct 2019 13:09

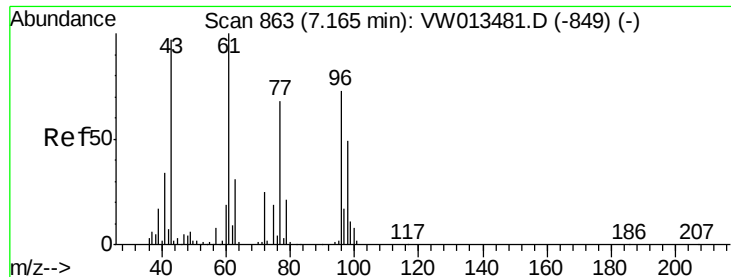
Tgt Ion: 43 Resp: 13121

Ion Ratio Lower Upper

43 100

72 23.0 22.1 33.1





#26

2,2-Dichloropropane

Concen: 3.427 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

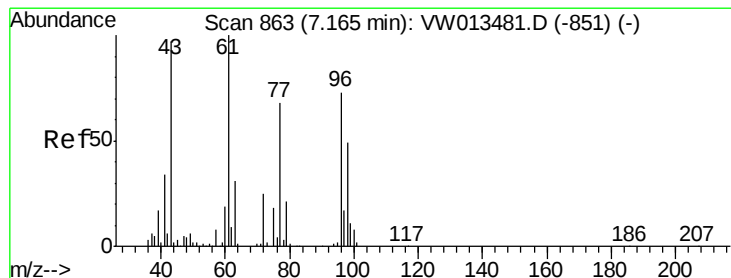
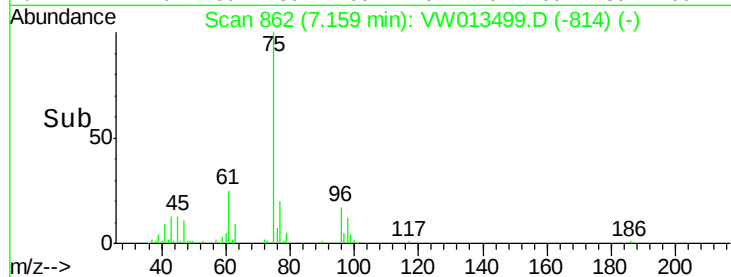
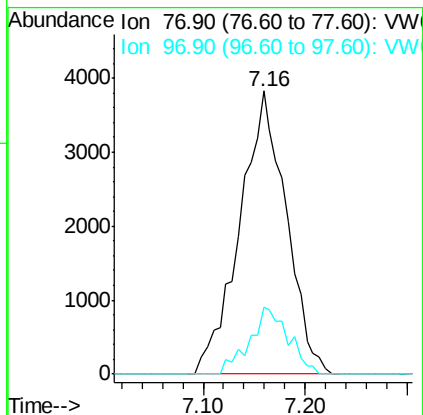
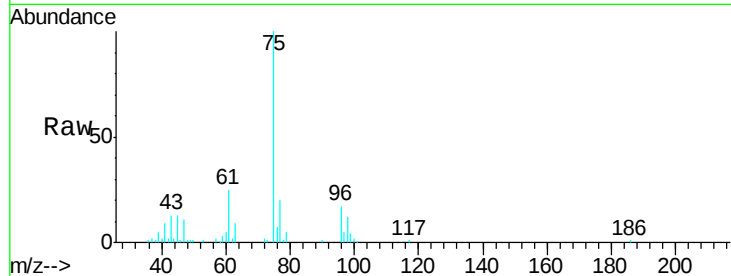
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 77 Resp: 12111

Ion Ratio Lower Upper

77 100

97 19.8 12.6 37.6



#27

cis-1,2-Dichloroethene

Concen: 2.737 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

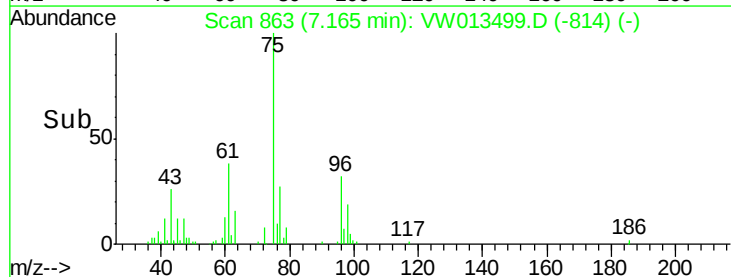
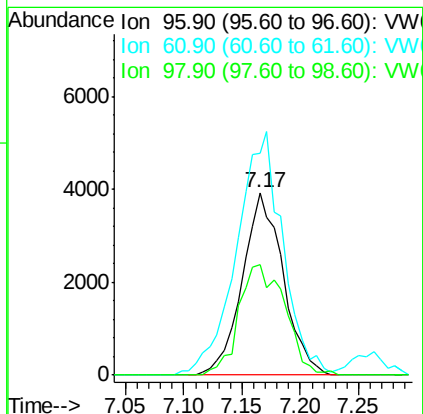
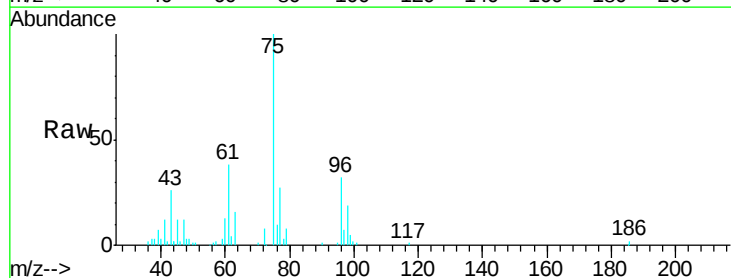
Tgt Ion: 96 Resp: 9587

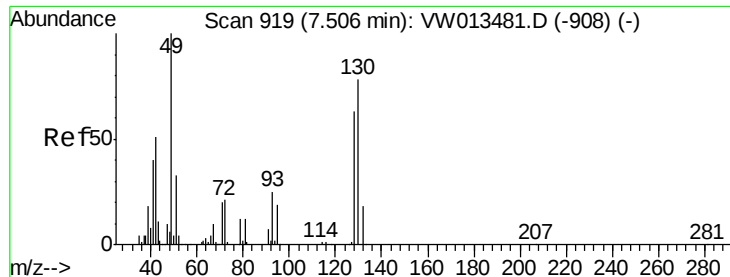
Ion Ratio Lower Upper

96 100

61 151.1 0.0 274.4

98 68.7 0.0 130.2

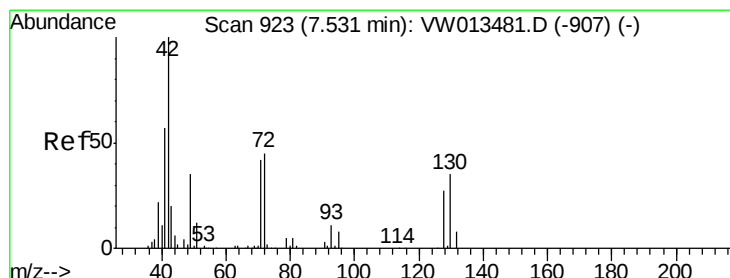
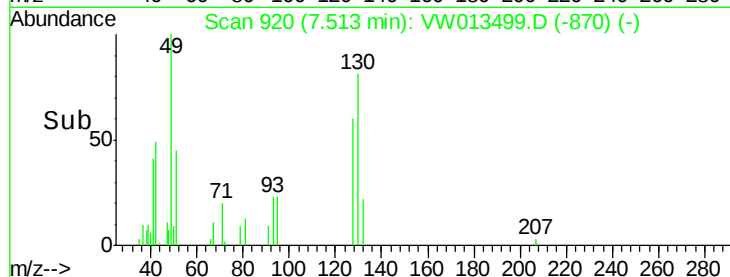
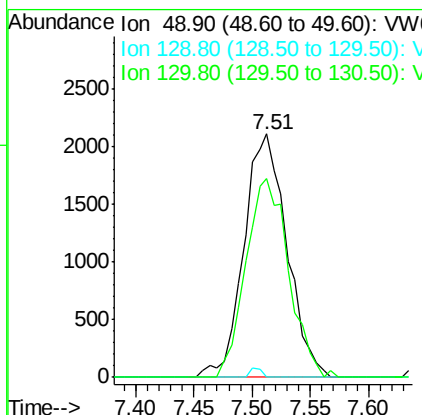
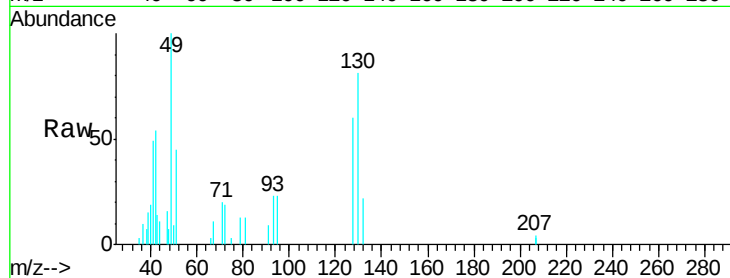




#28
 Bromochloromethane
 Concen: 4.790 ug/l
 RT: 7.51 min Scan# 920
 Delta R.T. 0.01 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

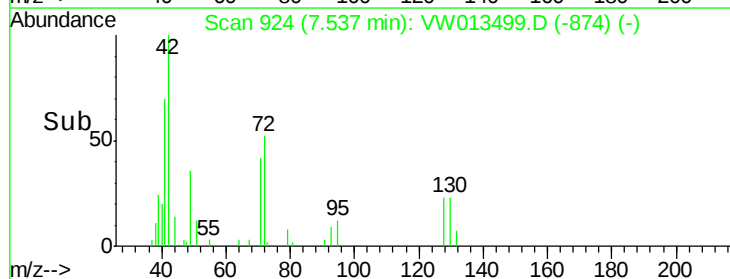
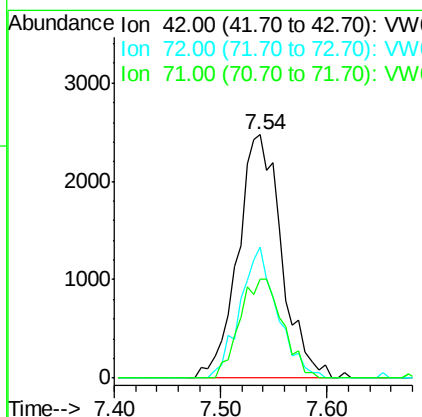
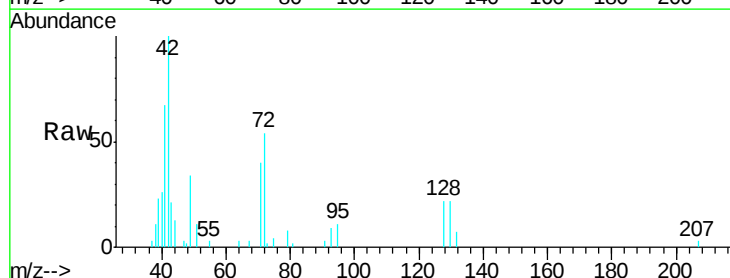
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

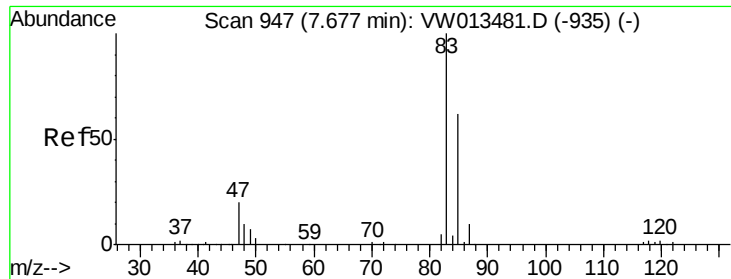
Tgt Ion: 49 Resp: 5413
 Ion Ratio Lower Upper
 49 100
 129 1.1 0.0 1.6
 130 81.3 0.0 0.0#



#29
 Tetrahydrofuran
 Concen: 12.211 ug/l
 RT: 7.54 min Scan# 924
 Delta R.T. 0.01 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

Tgt Ion: 42 Resp: 7097
 Ion Ratio Lower Upper
 42 100
 72 46.5 34.8 52.2
 71 40.0 33.6 50.4

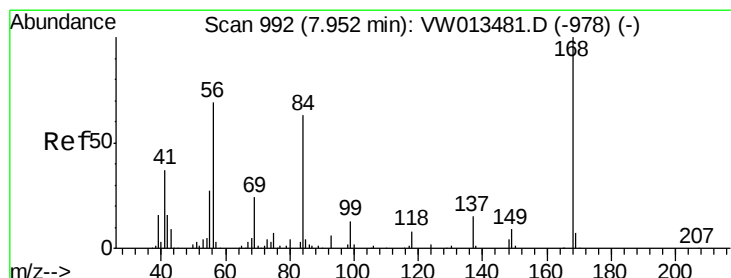
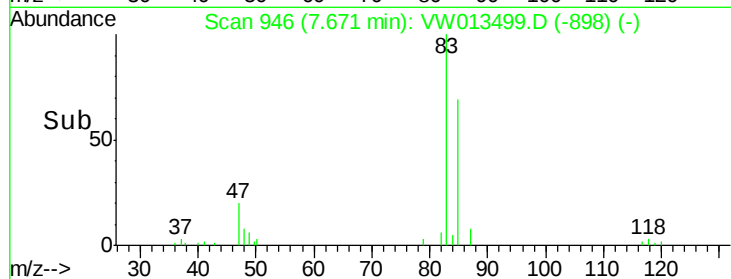
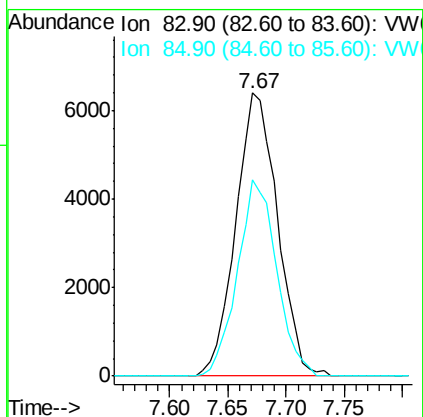
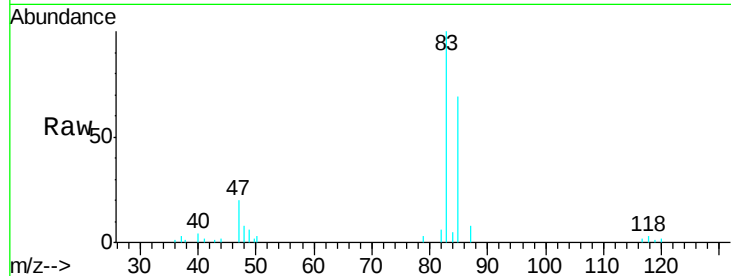




#30
Chloroform
Concen: 3.003 ug/l
RT: 7.67 min Scan# 946
Delta R.T. -0.01 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

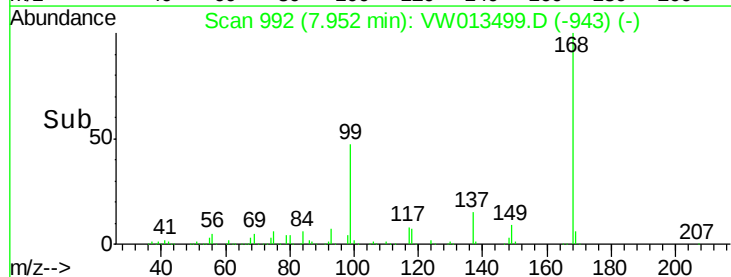
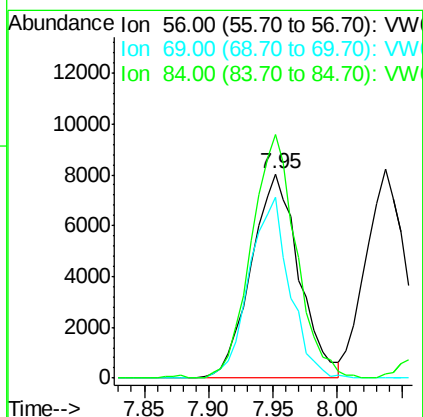
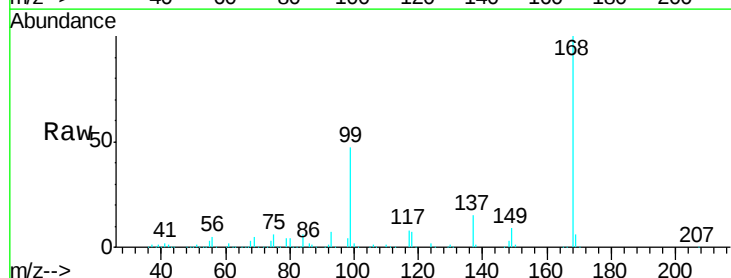
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

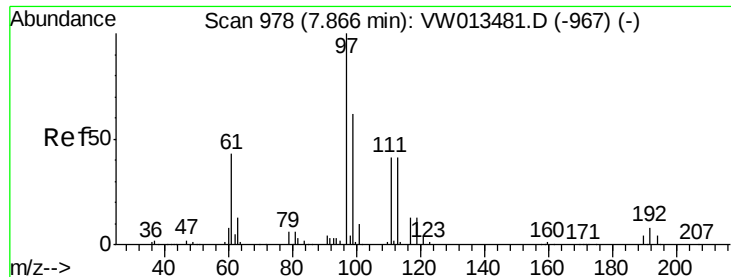
Tgt Ion: 83 Resp: 15922
Ion Ratio Lower Upper
83 100
85 69.4 49.4 74.2



#31
Cyclohexane
Concen: 3.573 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

Tgt Ion: 56 Resp: 20732
Ion Ratio Lower Upper
56 100
69 88.2 28.0 42.0#
84 119.1 71.8 107.6#





#32

1,1,1-Trichloroethane

Concen: 2.726 ug/l

RT: 7.87 min Scan# 978

Delta R.T. 0.00 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

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

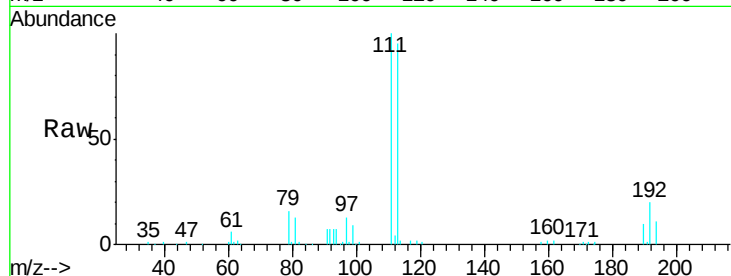
Tgt Ion: 97 Resp: 11752

Ion Ratio Lower Upper

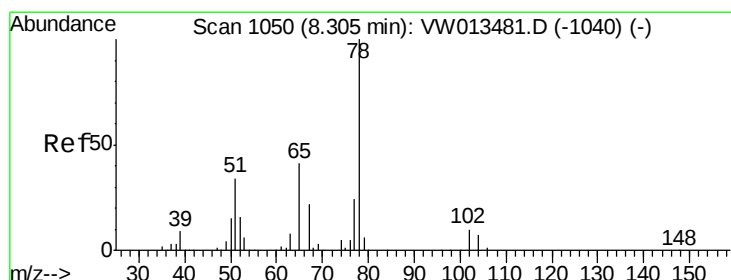
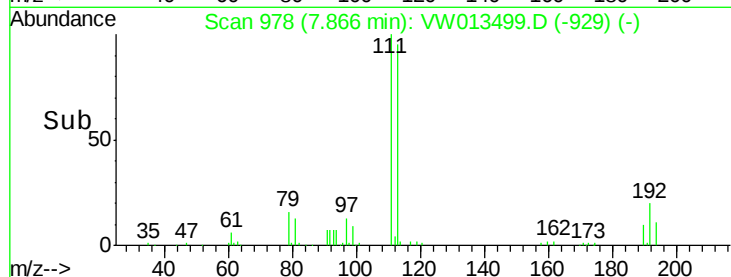
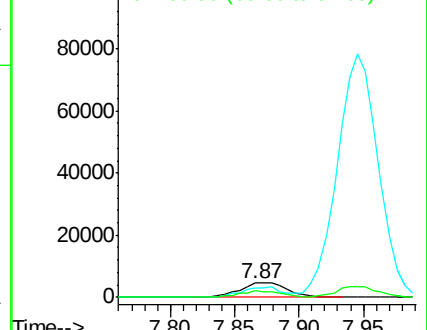
97 100

99 63.8 52.3 78.5

61 42.0 33.7 50.5



Abundance Ion 96.90 (96.60 to 97.60): VW
Ion 98.90 (98.60 to 99.60): VW
Ion 60.90 (60.60 to 61.60): VW



#33

1,2-Dichloroethane-d4

Concen: 51.529 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW013499.D

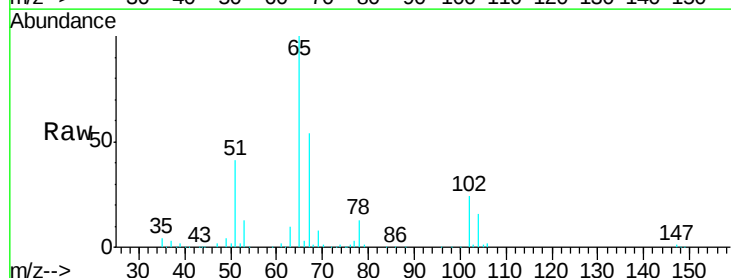
Acq: 09 Oct 2019 13:09

Tgt Ion: 65 Resp: 142881

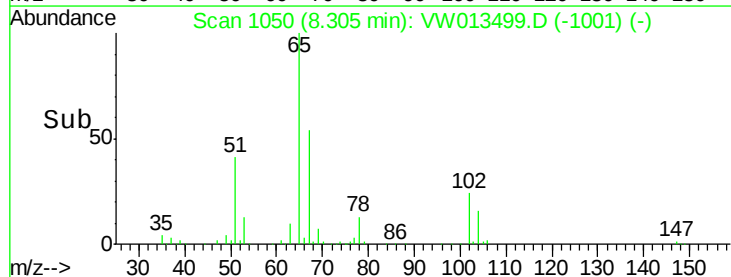
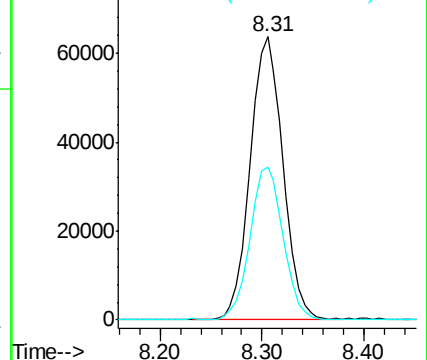
Ion Ratio Lower Upper

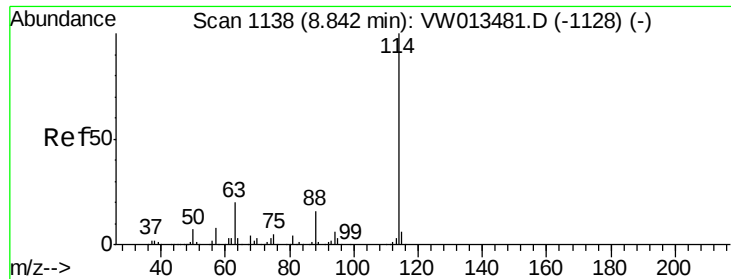
65 100

67 54.4 0.0 109.4



Abundance Ion 64.90 (64.60 to 65.60): VW
Ion 66.90 (66.60 to 67.60): VW

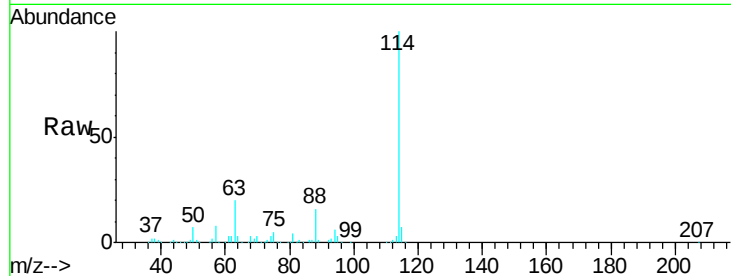




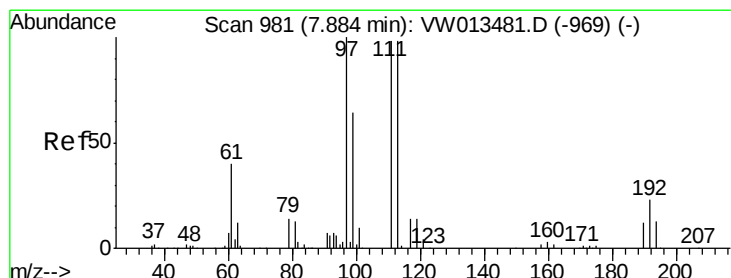
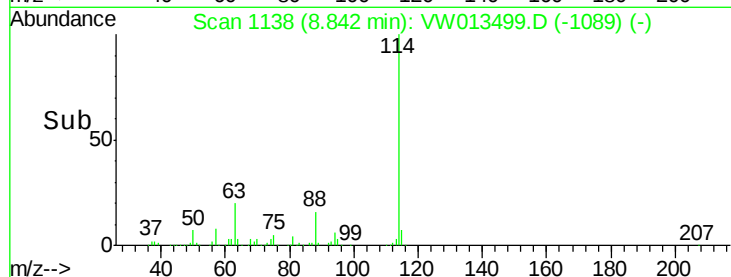
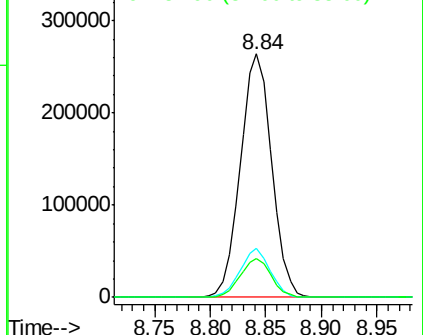
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. 0.00 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

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

Tgt Ion:114 Resp: 515246
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 40.4
 88 16.0 0.0 31.4

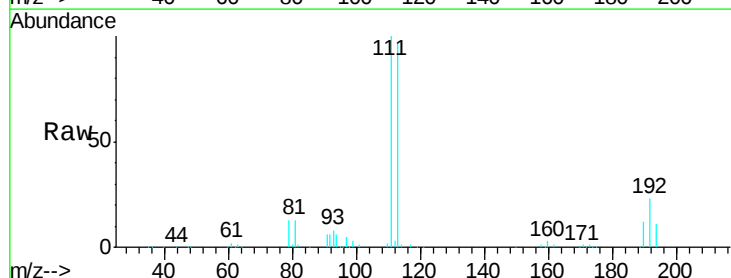


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VW
 Ion 87.90 (87.60 to 88.60): VW

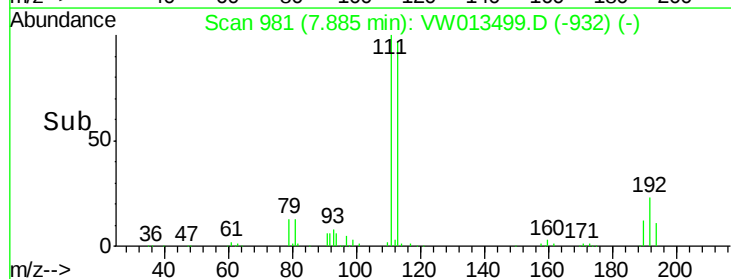
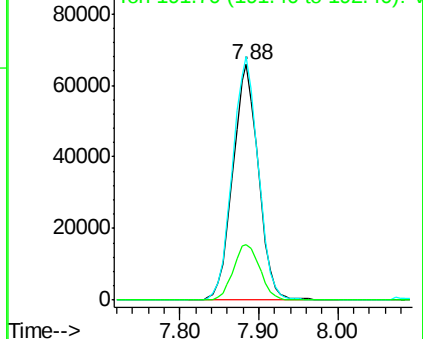


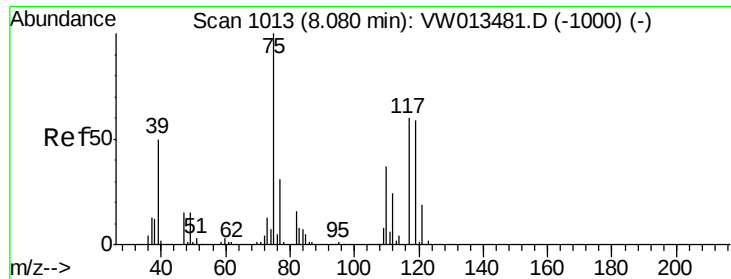
#35
 Dibromofluoromethane
 Concen: 51.595 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. 0.00 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

Tgt Ion:113 Resp: 148477
 Ion Ratio Lower Upper
 113 100
 111 104.5 82.3 123.5
 192 24.5 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

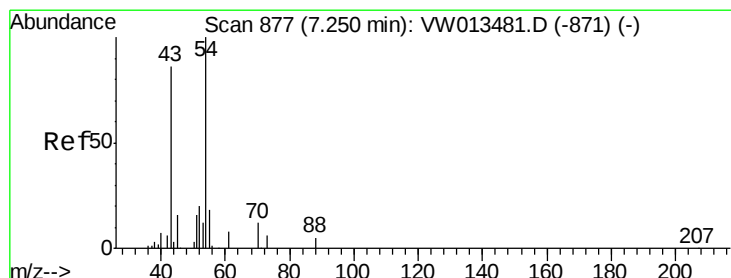
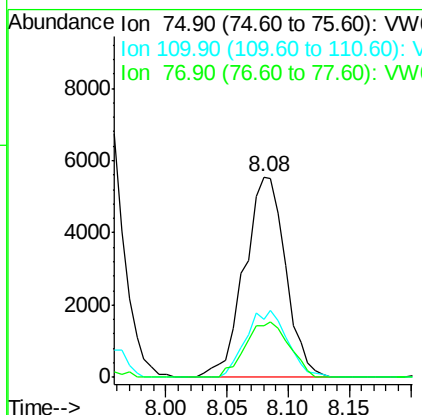
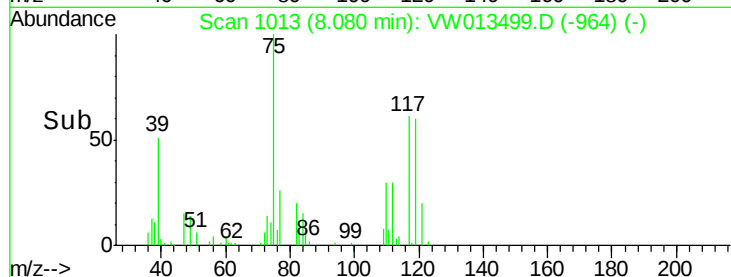
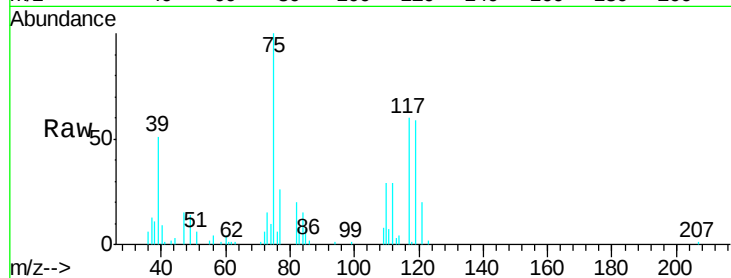




#36
 1,1-Dichloropropene
 Concen: 2.783 ug/l
 RT: 8.08 min Scan# 1013
 Delta R.T. 0.00 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

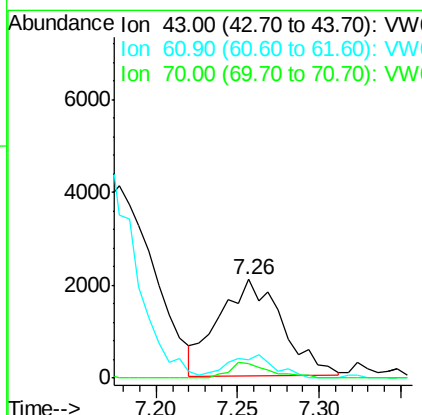
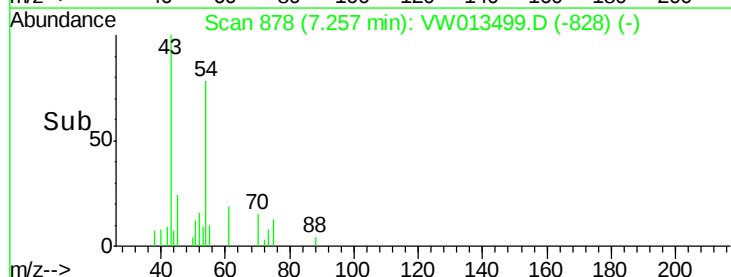
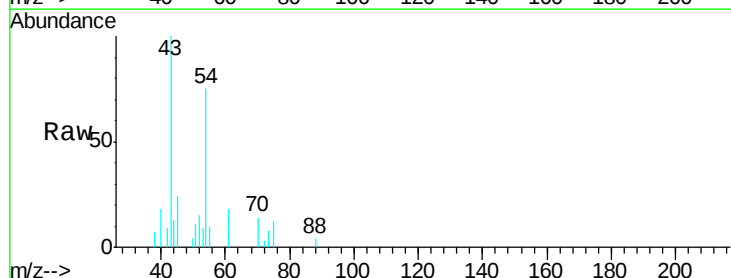
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

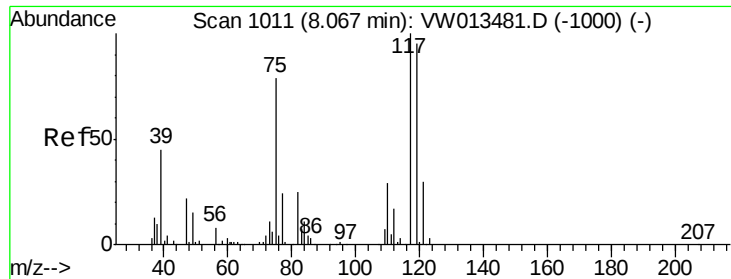
Tgt Ion: 75 Resp: 12973
 Ion Ratio Lower Upper
 75 100
 110 33.8 18.4 55.2
 77 29.4 25.0 37.4



#37
 Ethyl Acetate
 Concen: 2.631 ug/l
 RT: 7.26 min Scan# 878
 Delta R.T. 0.01 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

Tgt Ion: 43 Resp: 5564
 Ion Ratio Lower Upper
 43 100
 61 18.1 10.9 16.3#
 70 10.1 9.2 13.8

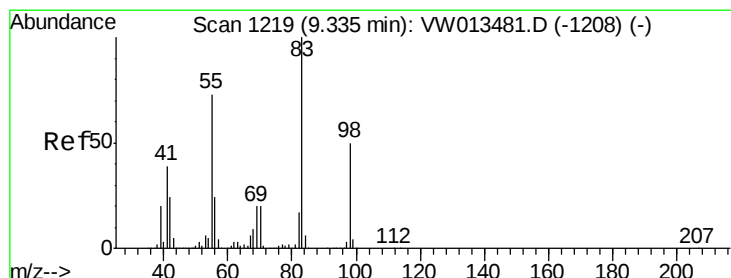
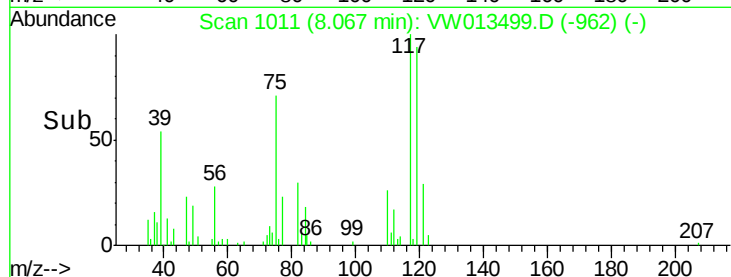
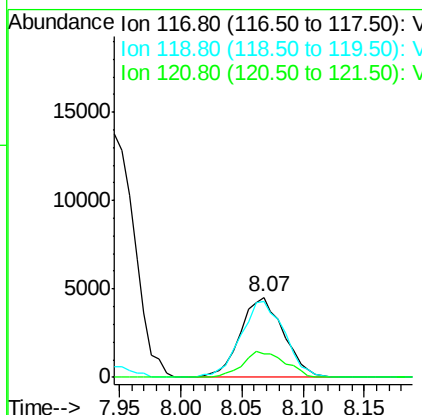
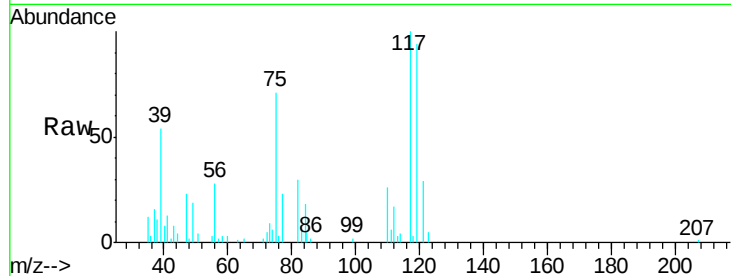




#38
Carbon Tetrachloride
Concen: 2.675 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

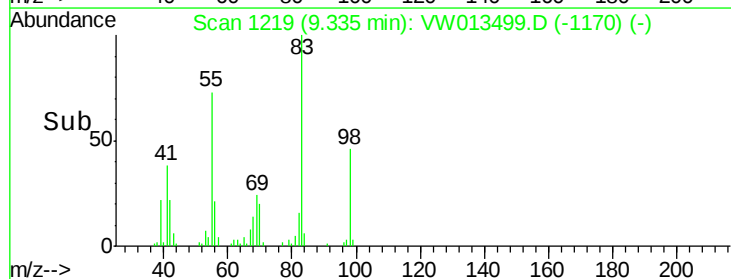
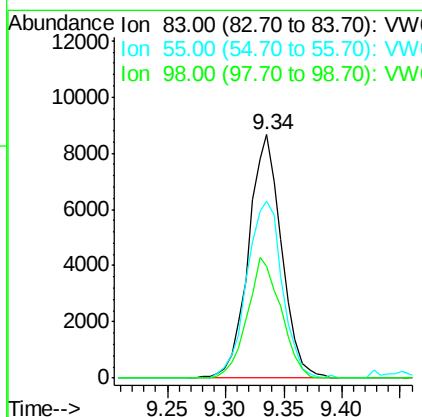
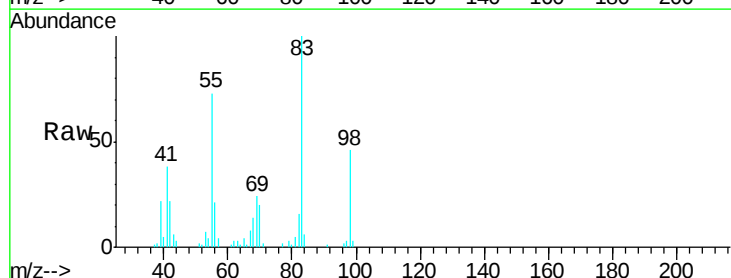
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

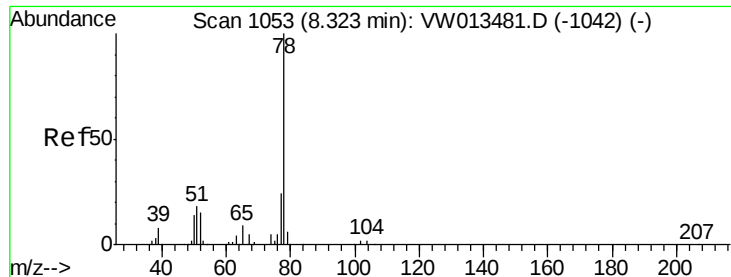
Tgt Ion: 117 Resp: 11054
Ion Ratio Lower Upper
117 100
119 94.5 76.3 114.5
121 28.7 23.6 35.4



#39
Methylcyclohexane
Concen: 2.828 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

Tgt Ion: 83 Resp: 17076
Ion Ratio Lower Upper
83 100
55 72.7 58.2 87.4
98 45.9 39.8 59.6





#40

Benzene

Concen: 2.799 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. 0.00 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

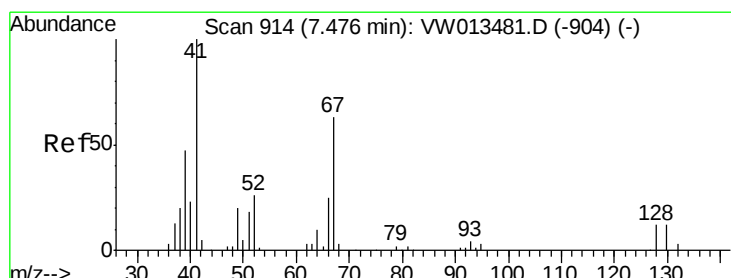
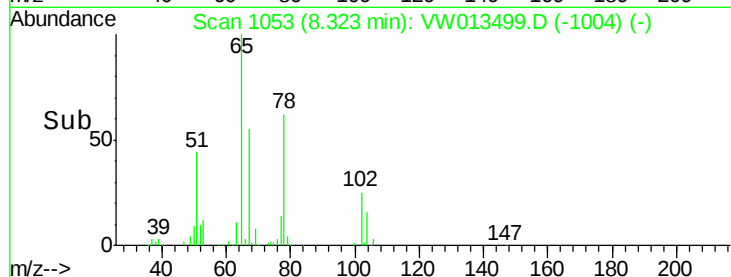
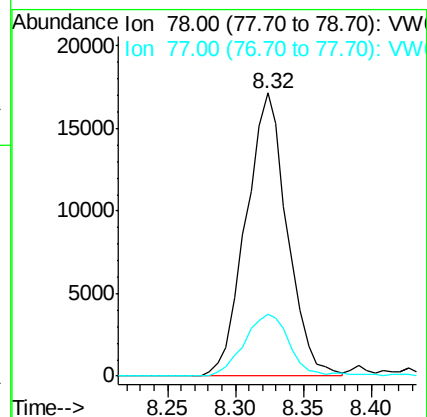
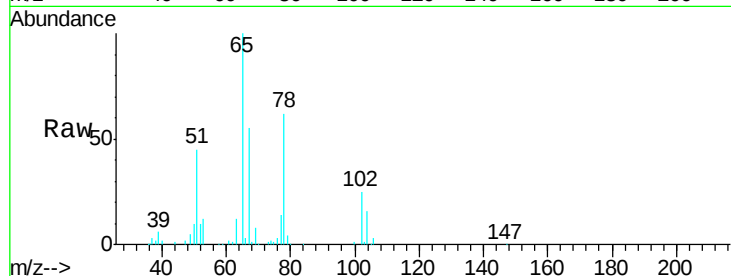
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 78 Resp: 36412

Ion Ratio Lower Upper

78 100

77 22.1 19.2 28.8



#41

Methacrylonitrile

Concen: 2.393 ug/l

RT: 7.48 min Scan# 915

Delta R.T. 0.01 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Tgt Ion: 41 Resp: 2878

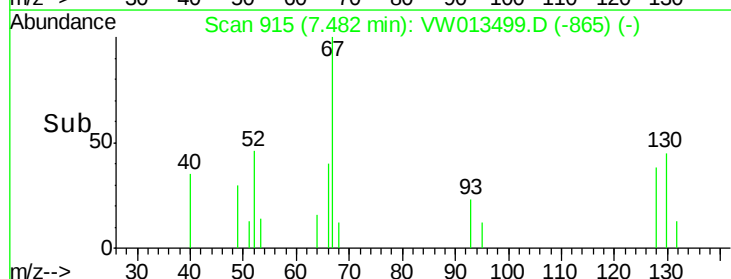
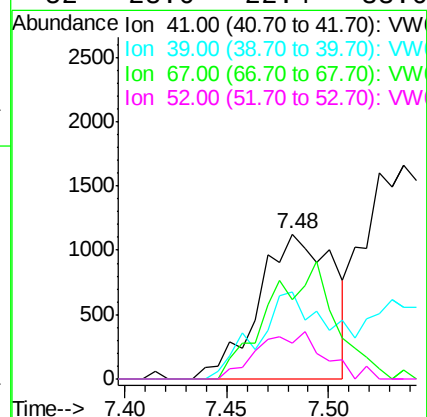
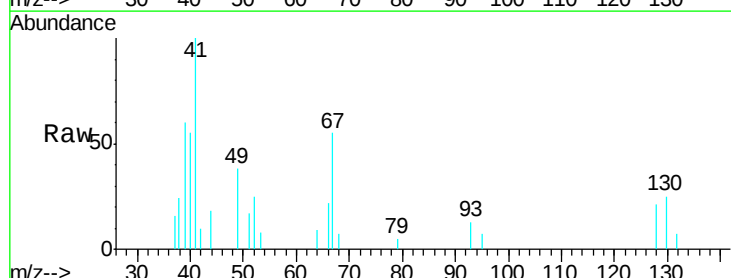
Ion Ratio Lower Upper

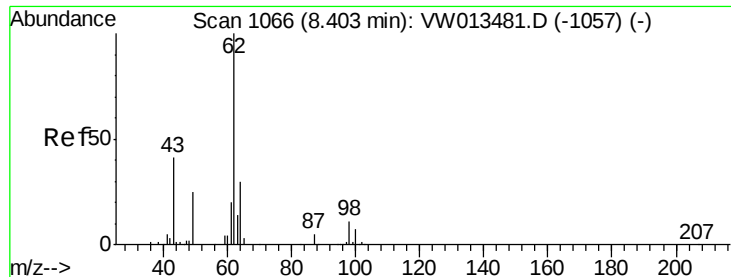
41 100

39 59.6 39.4 59.0#

67 72.9 57.0 85.6

52 28.6 22.4 33.6





#42

1,2-Dichloroethane

Concen: 2.895 ug/l

RT: 8.40 min Scan# 1066

Delta R.T. 0.00 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

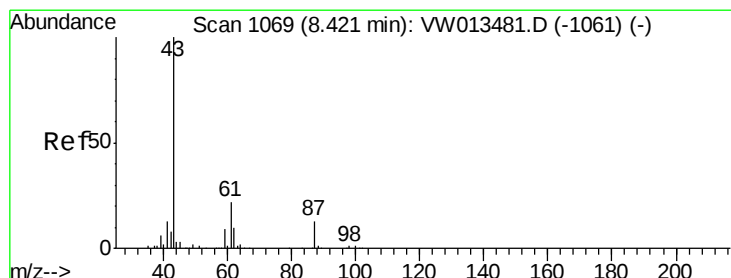
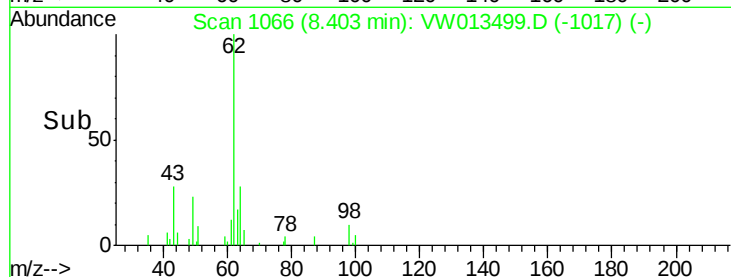
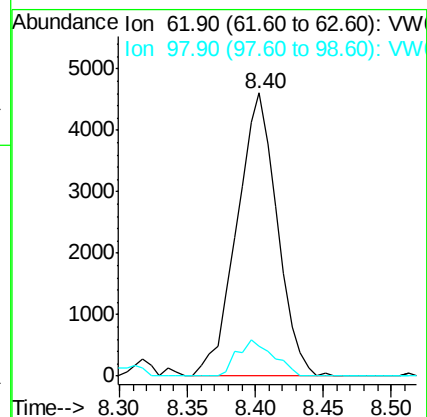
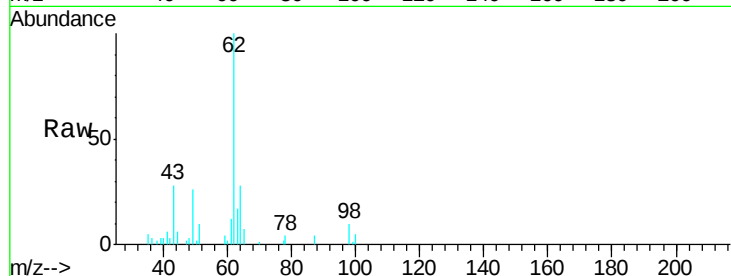
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 62 Resp: 9520

Ion Ratio Lower Upper

62 100

98 11.5 0.0 21.4



#43

Isopropyl Acetate

Concen: 2.457 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. 0.01 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

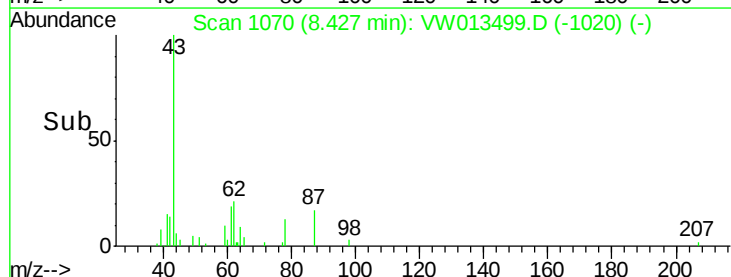
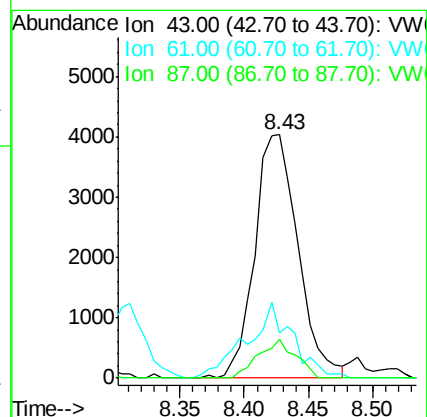
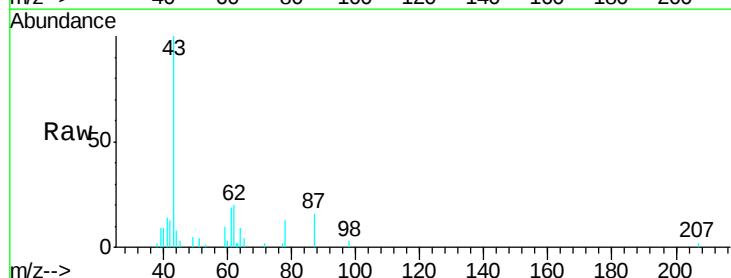
Tgt Ion: 43 Resp: 9387

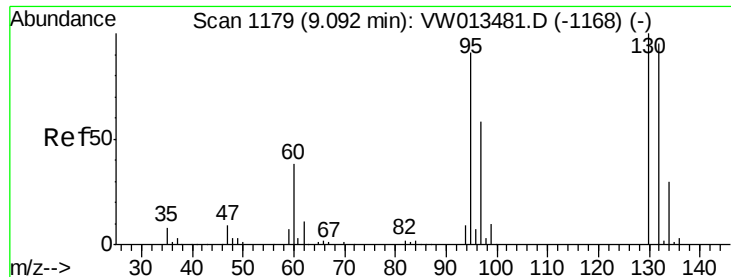
Ion Ratio Lower Upper

43 100

61 33.2 25.4 38.2

87 13.6 10.8 16.2





#44

Trichloroethene

Concen: 2.822 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

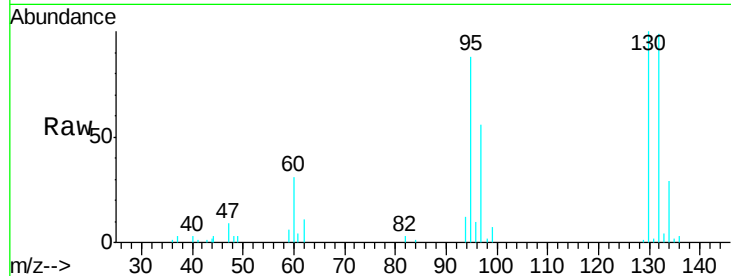
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion:130 Resp: 10473

Ion Ratio Lower Upper

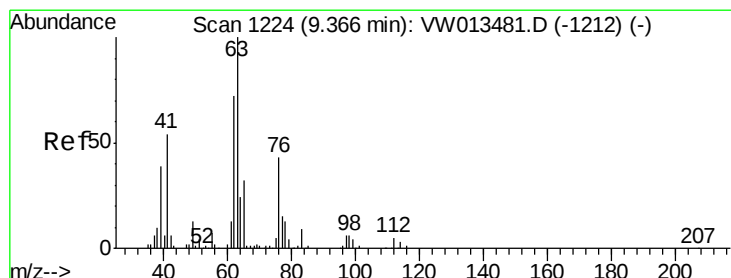
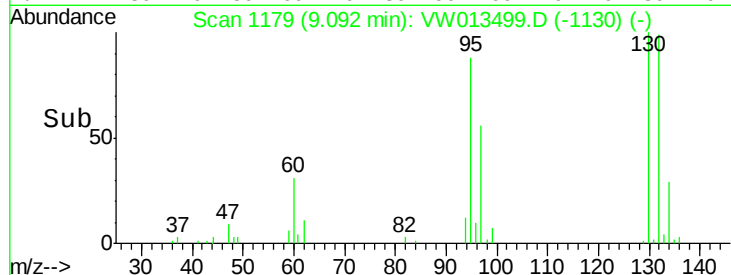
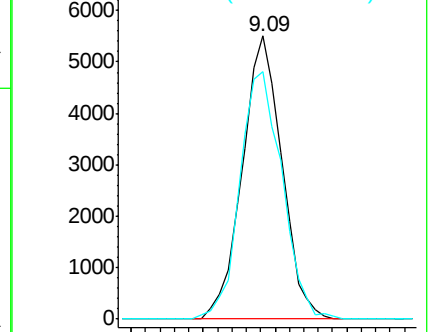
130 100

95 87.6 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: 2.776 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW013499.D

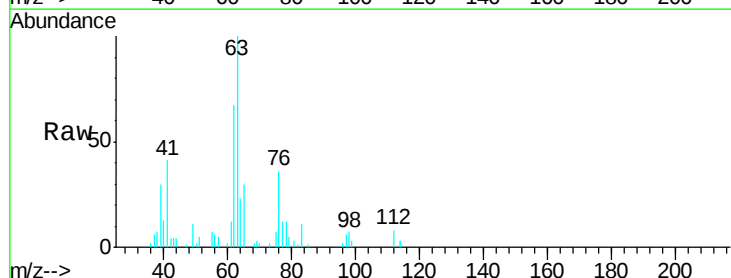
Acq: 09 Oct 2019 13:09

Tgt Ion: 63 Resp: 8668

Ion Ratio Lower Upper

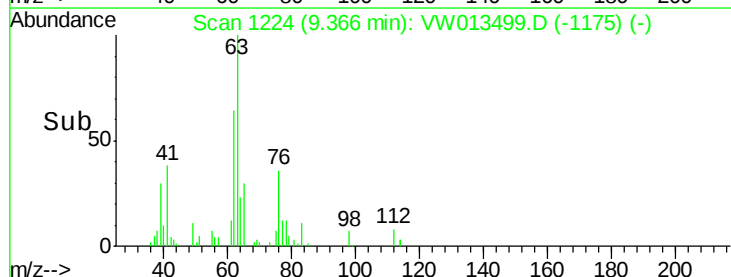
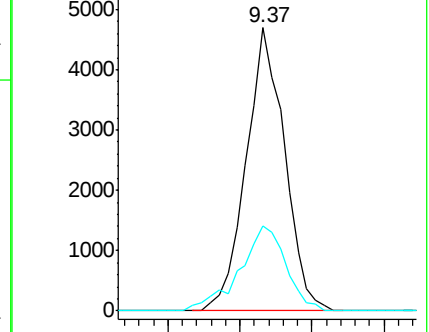
63 100

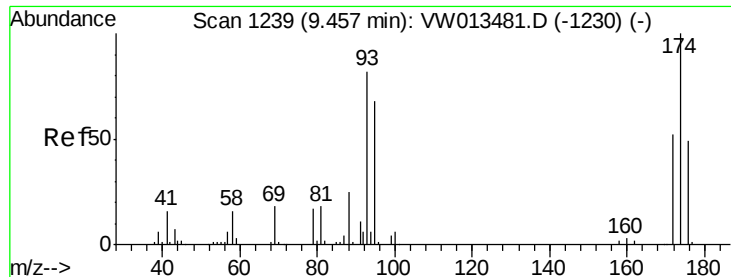
65 30.1 25.8 38.6



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW

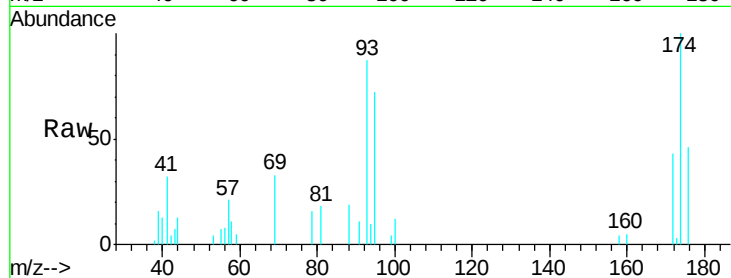




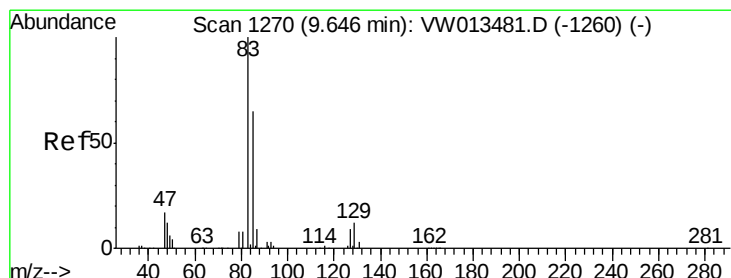
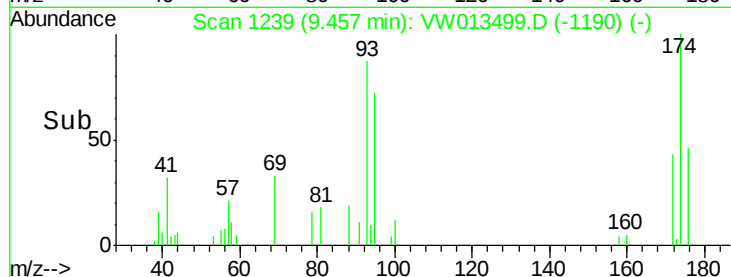
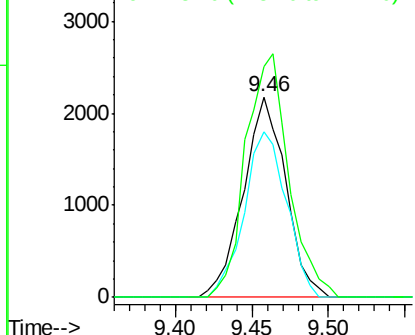
#46
Dibromomethane
Concen: 2.709 ug/l
RT: 9.46 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

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

Tgt Ion: 93 Resp: 4215
Ion Ratio Lower Upper
93 100
95 82.0 68.0 102.0
174 123.1 97.0 145.6

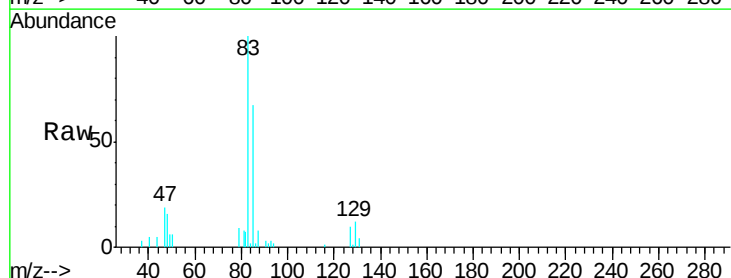


Abundance Ion 92.80 (92.50 to 93.50): VW
Ion 94.80 (94.50 to 95.50): VW
Ion 173.70 (173.40 to 174.40): V

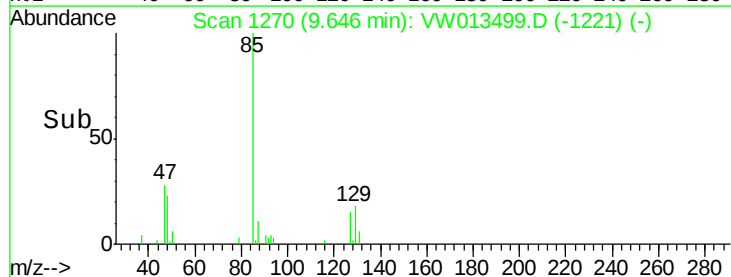
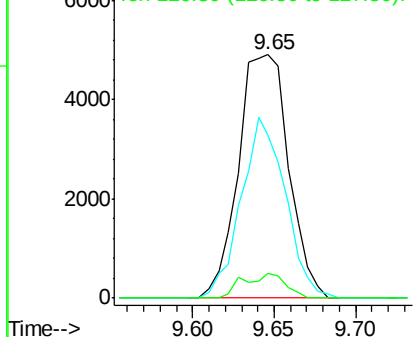


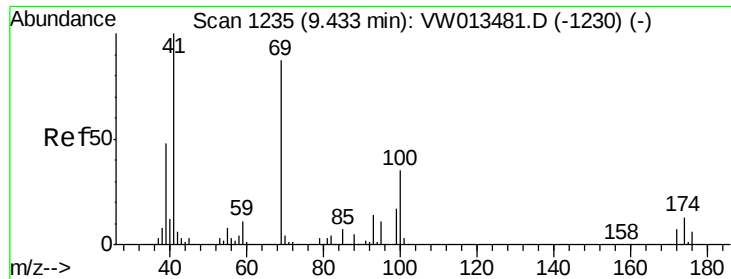
#47
Bromodichloromethane
Concen: 2.719 ug/l
RT: 9.65 min Scan# 1270
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

Tgt Ion: 83 Resp: 10517
Ion Ratio Lower Upper
83 100
85 67.1 51.9 77.9
127 10.3 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

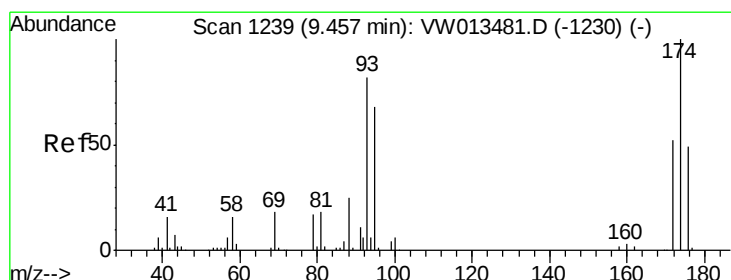
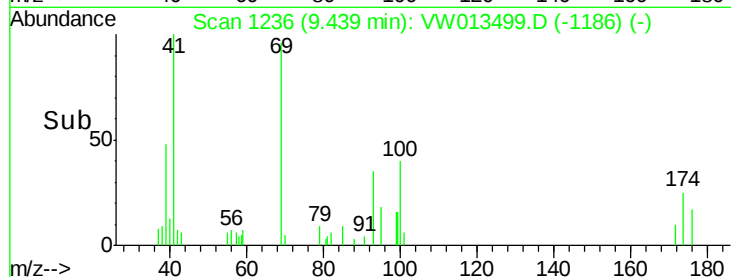
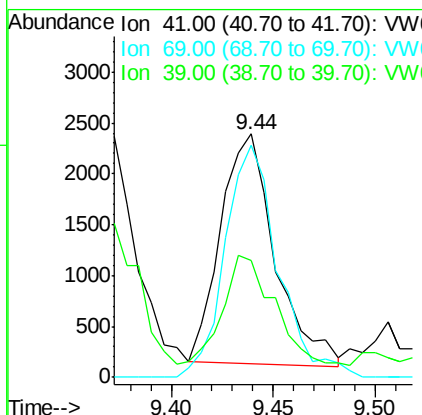
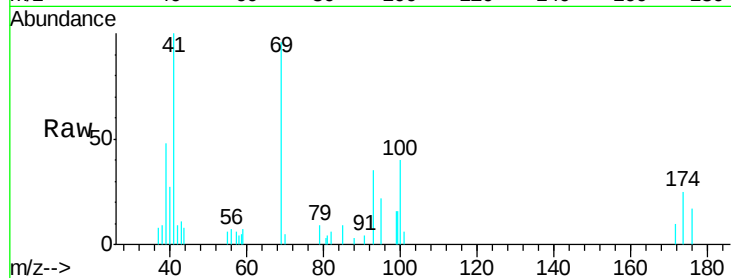




#48
Methyl methacrylate
Concen: 2.220 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. 0.01 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

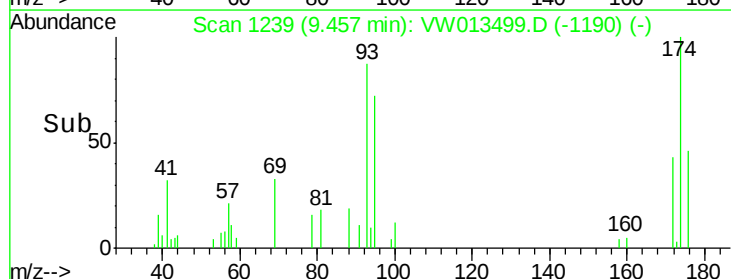
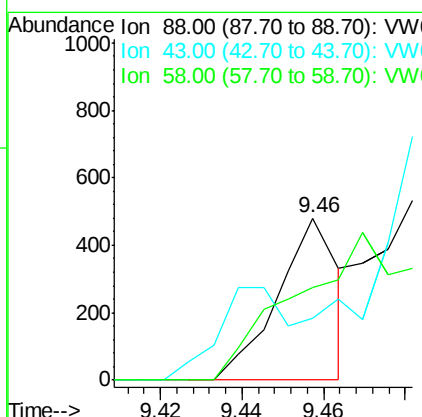
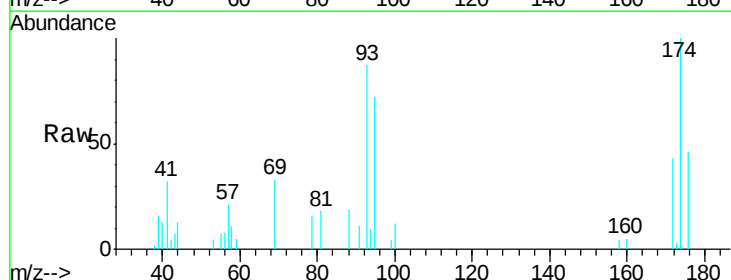
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

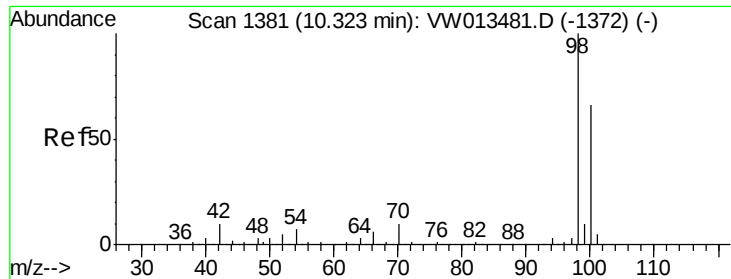
Tgt Ion: 41 Resp: 4178
Ion Ratio Lower Upper
41 100
69 98.6 70.4 105.6
39 49.2 37.3 55.9



#49
1,4-Dioxane
Concen: 18.230 ug/l
RT: 9.46 min Scan# 1239
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

Tgt Ion: 88 Resp: 498
Ion Ratio Lower Upper
88 100
43 76.9 0.0 0.0#
58 0.0 60.0 90.0#

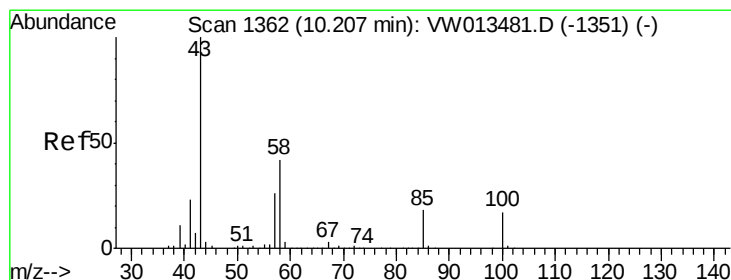
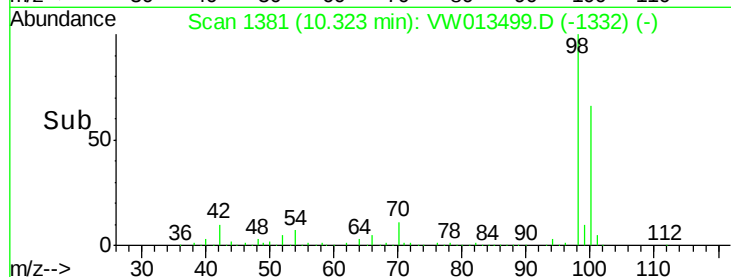
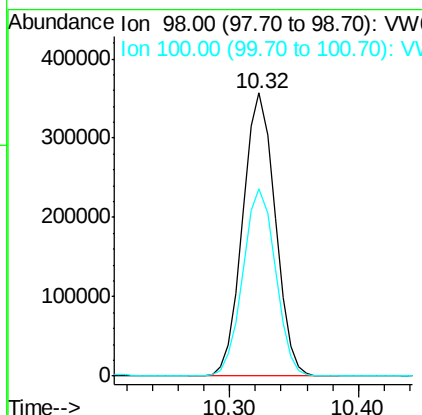
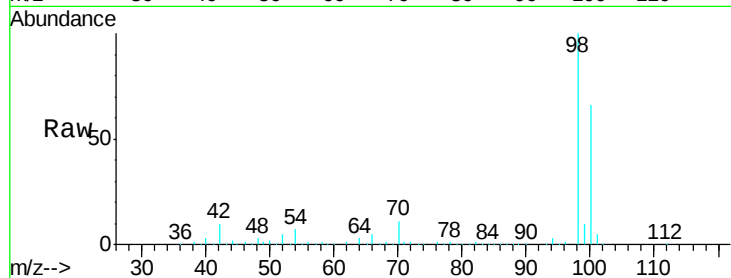




#50
Toluene-d8
Concen: 51.401 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

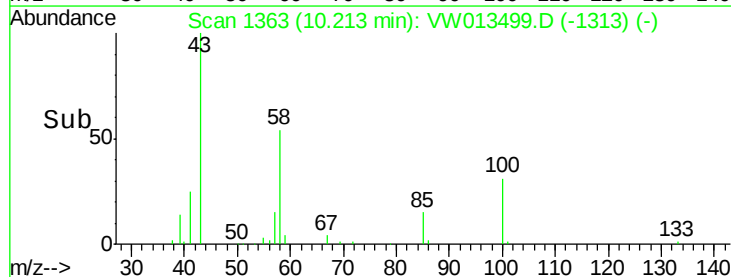
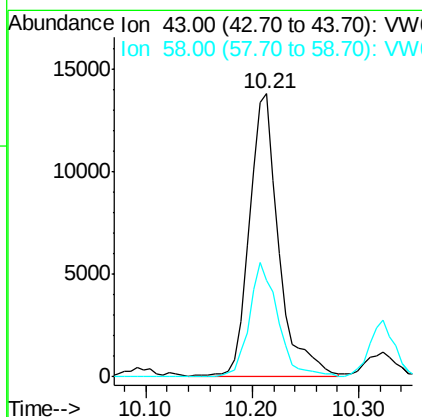
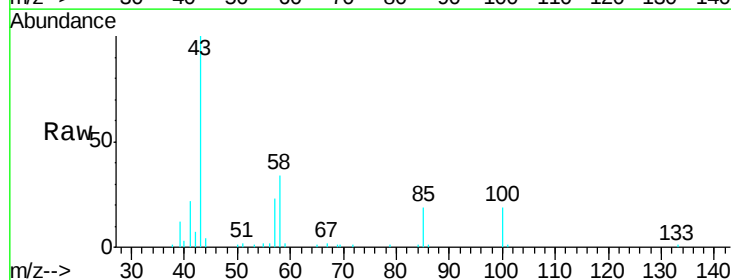
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

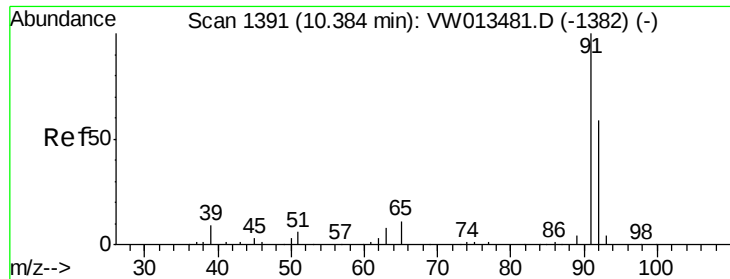
Tgt Ion: 98 Resp: 621627
Ion Ratio Lower Upper
98 100
100 66.4 53.2 79.8



#51
4-Methyl-2-Pentanone
Concen: 13.357 ug/l
RT: 10.21 min Scan# 1363
Delta R.T. 0.01 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

Tgt Ion: 43 Resp: 26830
Ion Ratio Lower Upper
43 100
58 39.4 32.8 49.2





#52

Toluene

Concen: 2.986 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

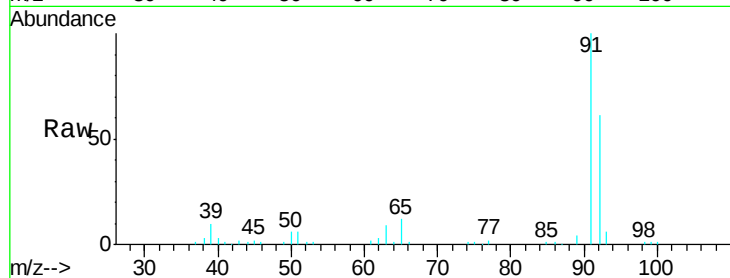
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 92 Resp: 25028

Ion Ratio Lower Upper

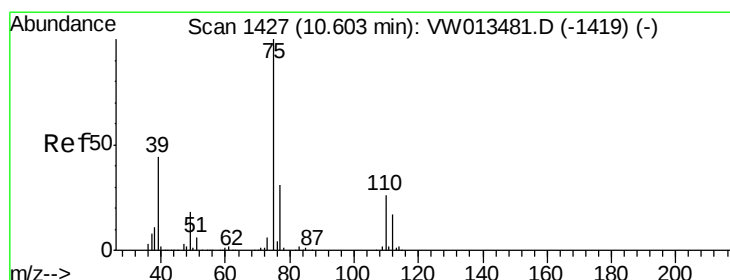
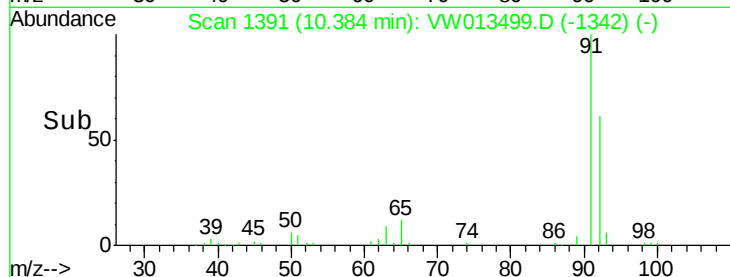
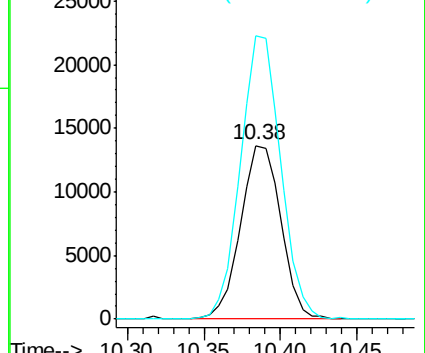
92 100

91 163.1 134.8 202.2



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW



#53

t-1,3-Dichloropropene

Concen: 2.678 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW013499.D

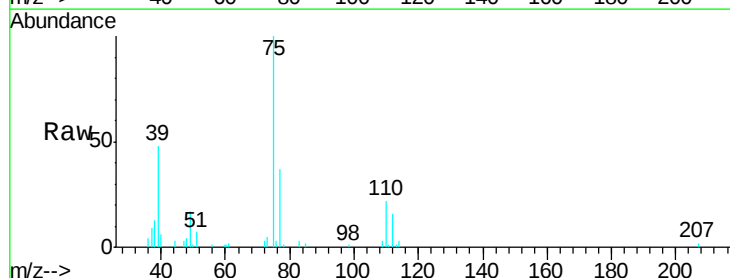
Acq: 09 Oct 2019 13:09

Tgt Ion: 75 Resp: 10762

Ion Ratio Lower Upper

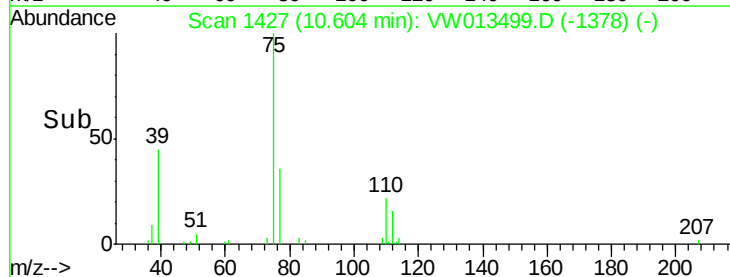
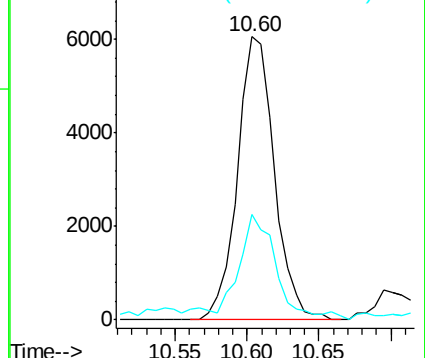
75 100

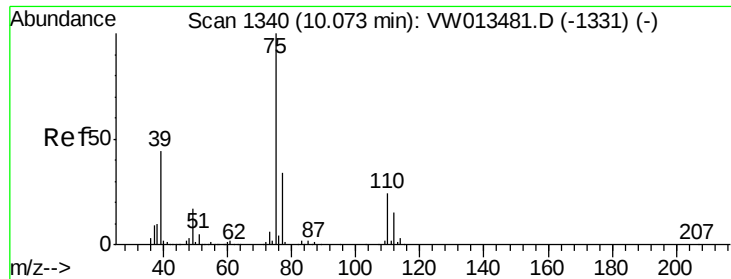
77 35.7 25.2 37.8



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

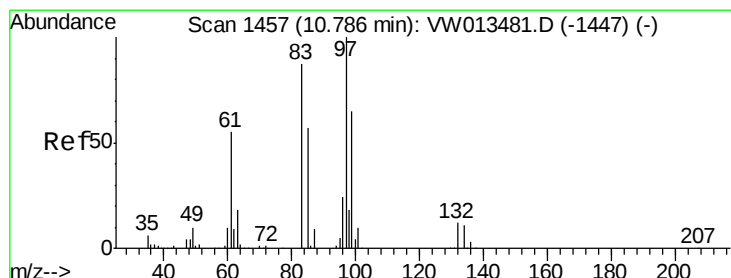
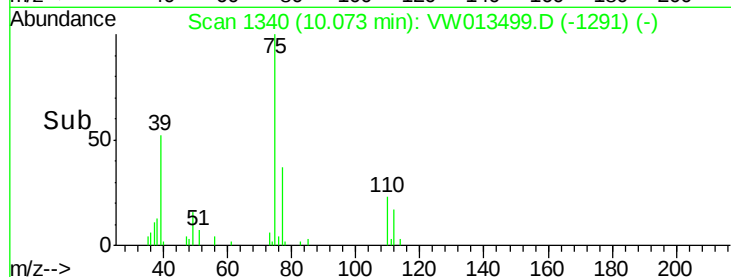
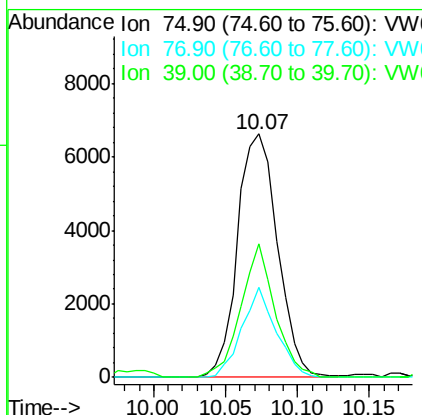
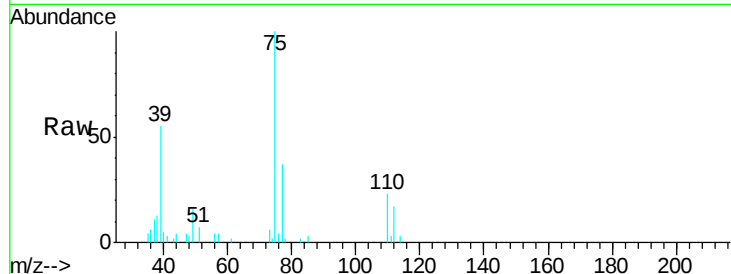




#54
 cis-1,3-Dichloropropene
 Concen: 2.631 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. 0.00 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

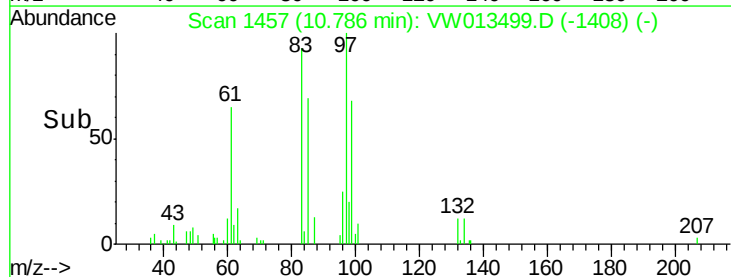
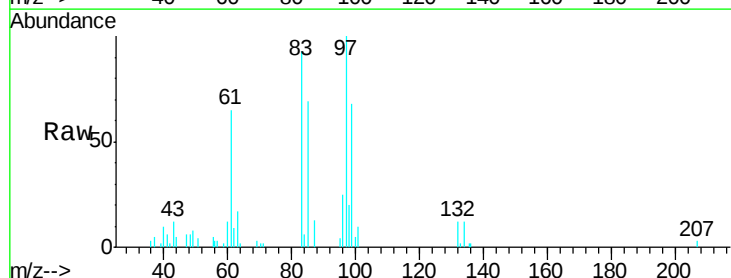
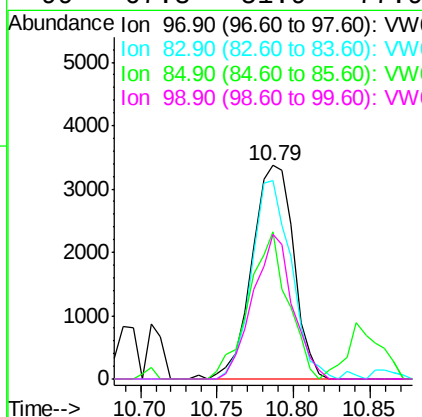
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

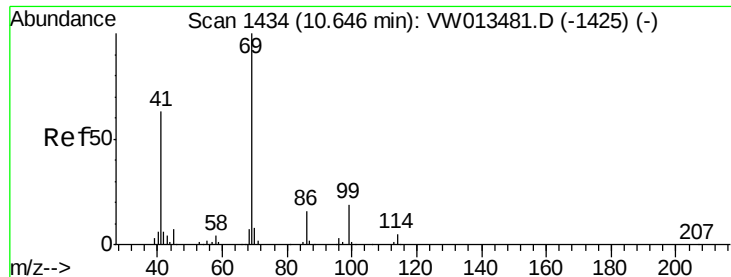
Tgt Ion: 75 Resp: 12811
 Ion Ratio Lower Upper
 75 100
 77 36.8 27.0 40.4
 39 54.9 35.0 52.4#



#55
 1,1,2-Trichloroethane
 Concen: 2.742 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

Tgt Ion: 97 Resp: 6403
 Ion Ratio Lower Upper
 97 100
 83 92.8 69.8 104.8
 85 68.7 45.4 68.0#
 99 67.8 51.9 77.9

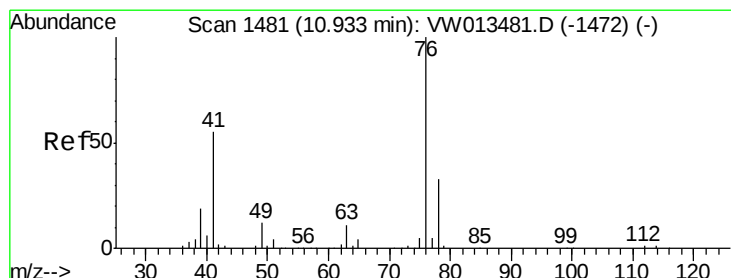
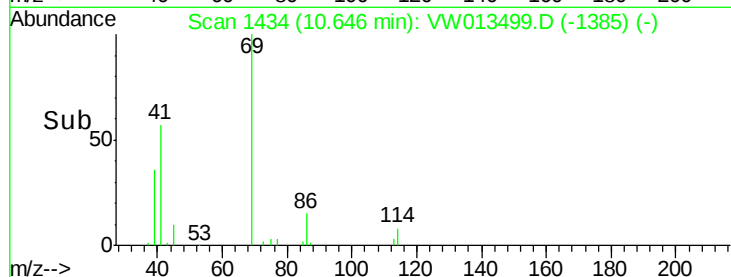
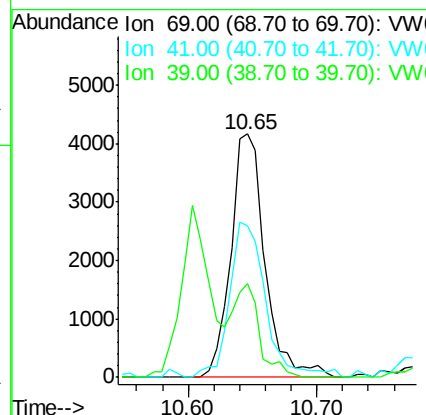
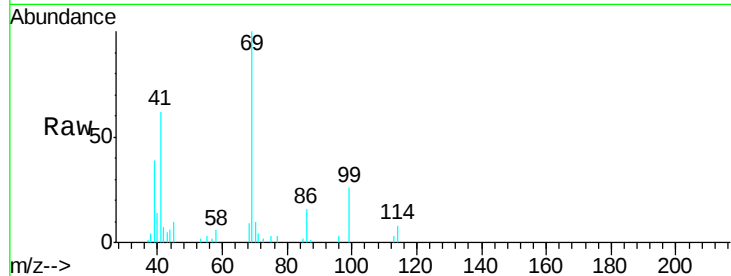




#56
 Ethyl methacrylate
 Concen: 2.458 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

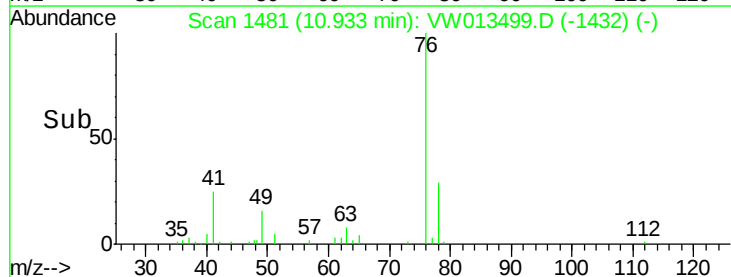
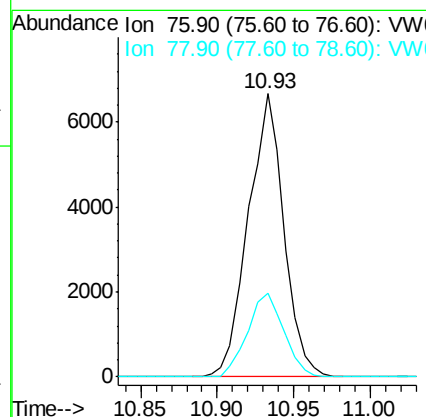
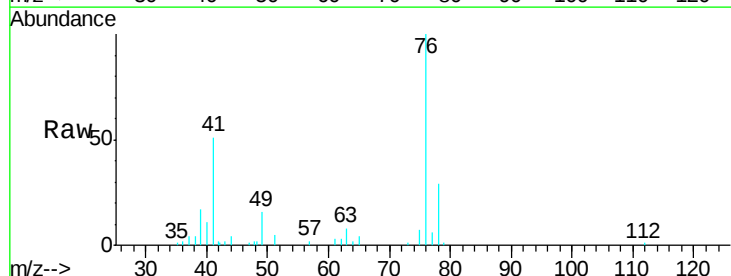
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

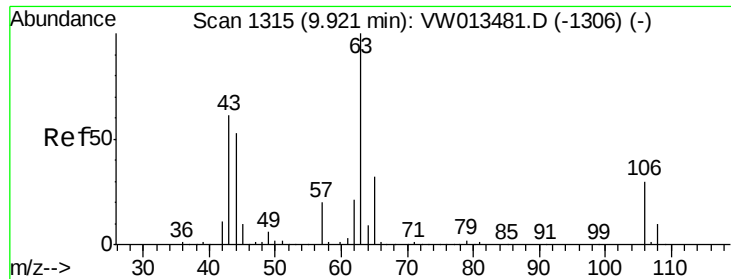
Tgt Ion: 69 Resp: 7730
 Ion Ratio Lower Upper
 69 100
 41 67.5 51.8 77.6
 39 30.4 21.7 32.5



#57
 1,3-Dichloropropane
 Concen: 2.689 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

Tgt Ion: 76 Resp: 10781
 Ion Ratio Lower Upper
 76 100
 78 30.0 25.9 38.9

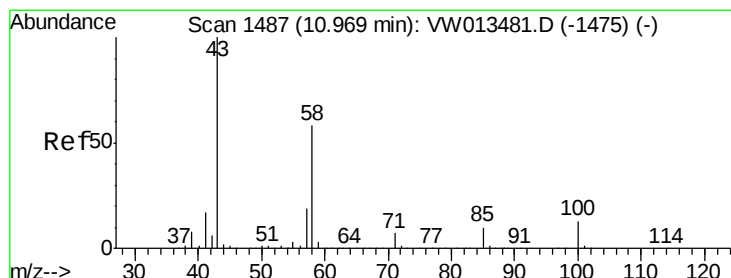
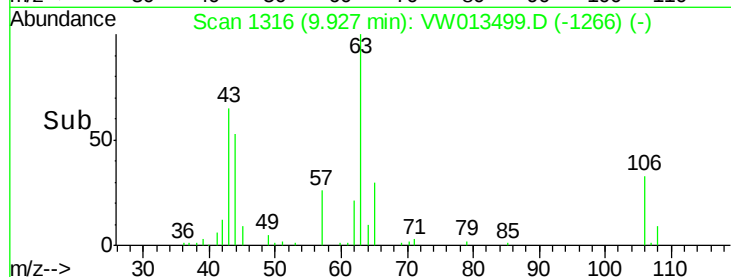
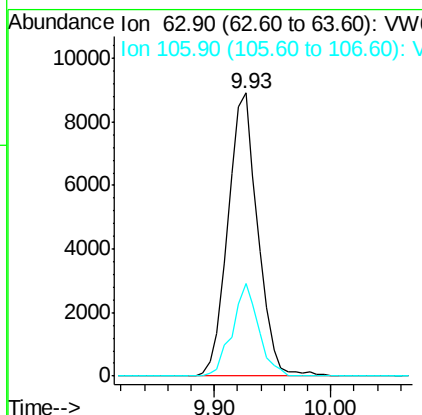
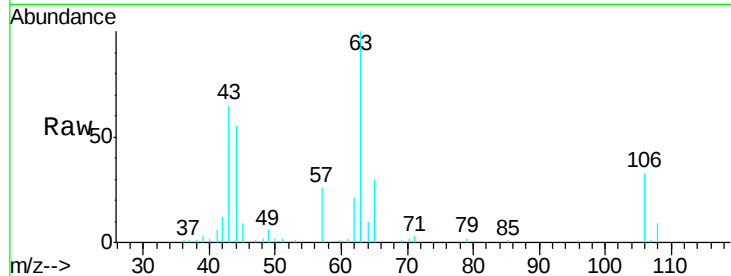




#58
2-Chloroethyl Vinyl ether
Concen: 10.661 ug/l
RT: 9.93 min Scan# 1316
Delta R.T. 0.01 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

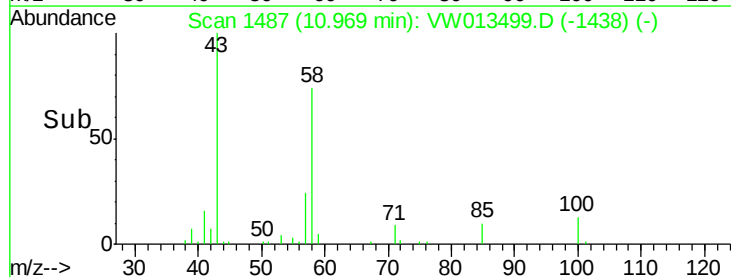
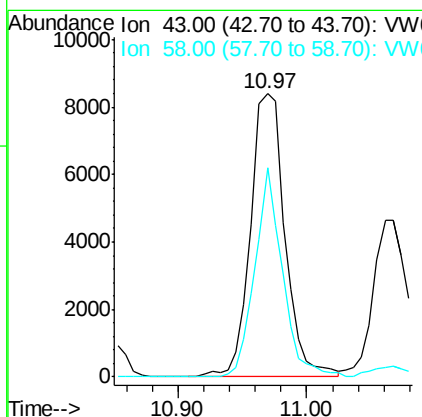
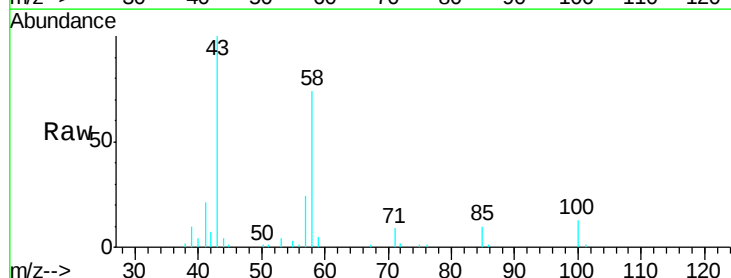
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

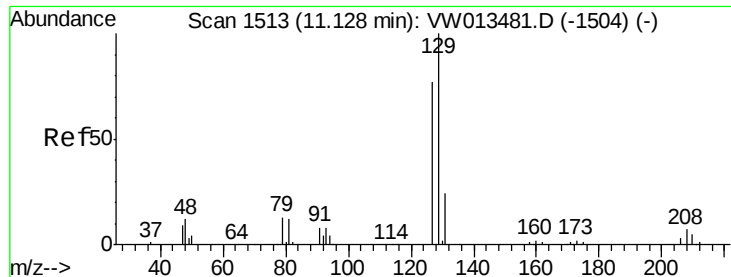
Tgt Ion: 63 Resp: 15819
Ion Ratio Lower Upper
63 100
106 29.0 24.5 36.7



#59
2-Hexanone
Concen: 11.276 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

Tgt Ion: 43 Resp: 15531
Ion Ratio Lower Upper
43 100
58 59.0 28.4 85.2





#60

Dibromochloromethane

Concen: 2.528 ug/l

RT: 11.13 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

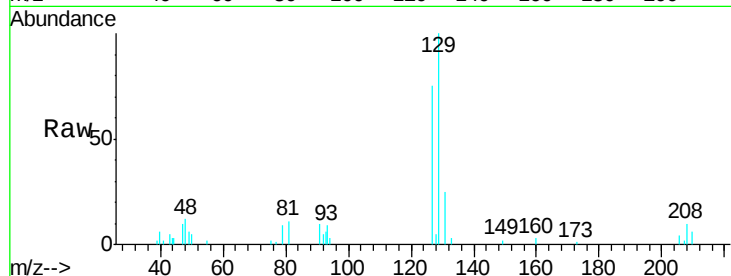
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion:129 Resp: 6790

Ion Ratio Lower Upper

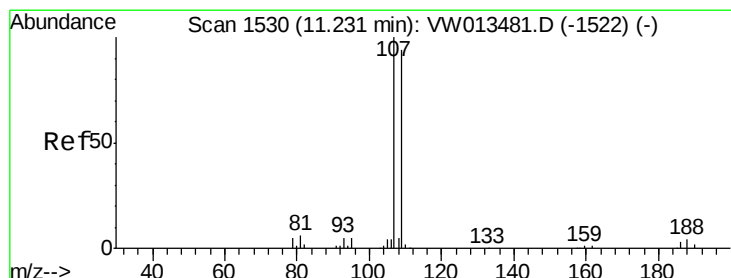
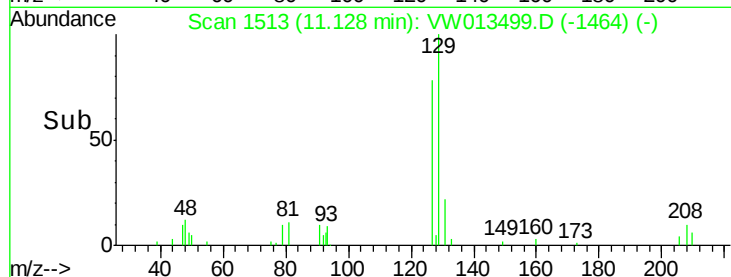
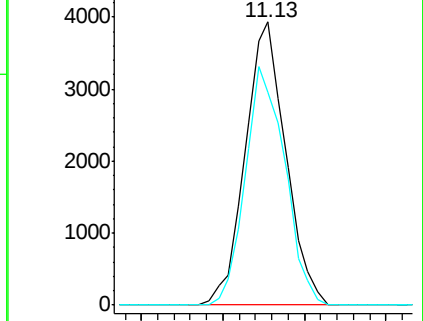
129 100

127 82.6 37.4 112.1



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#61

1,2-Dibromoethane

Concen: 2.586 ug/l

RT: 11.23 min Scan# 1530

Delta R.T. 0.00 min

Lab File: VW013499.D

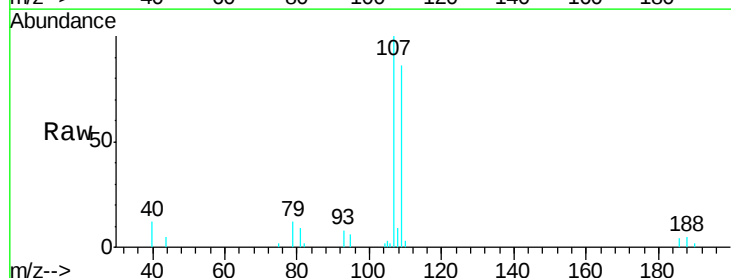
Acq: 09 Oct 2019 13:09

Tgt Ion:107 Resp: 5743

Ion Ratio Lower Upper

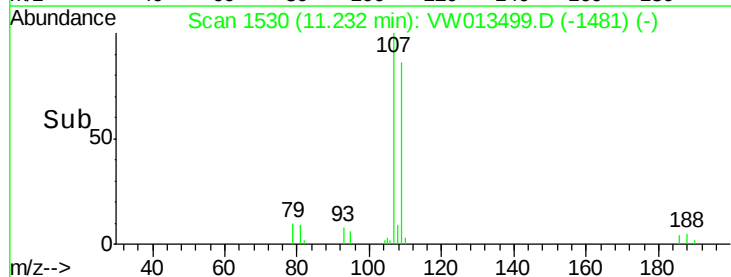
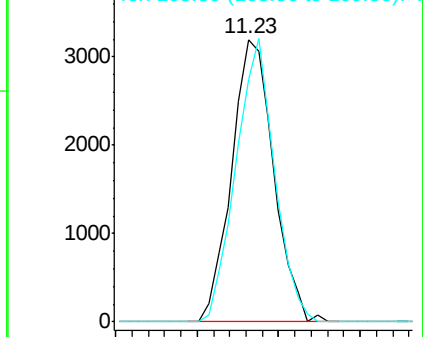
107 100

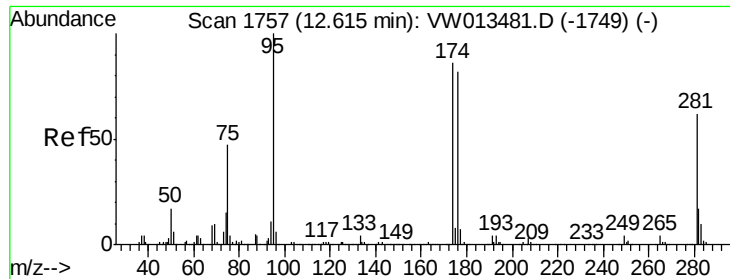
109 92.3 76.6 115.0



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

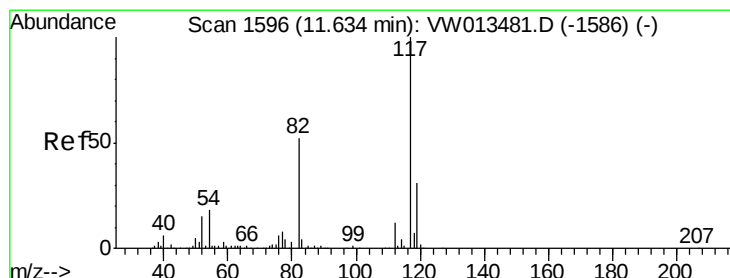
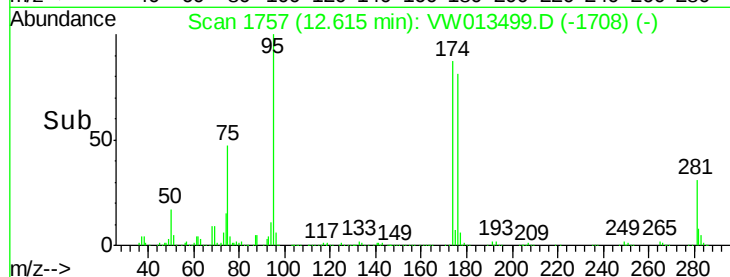
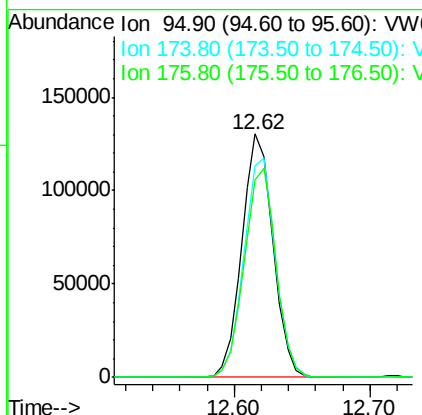
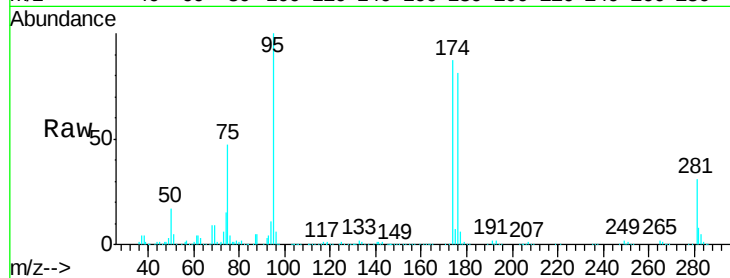




#62
4-Bromofluorobenzene
Concen: 51.303 ug/l
RT: 12.62 min Scan# 1757
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

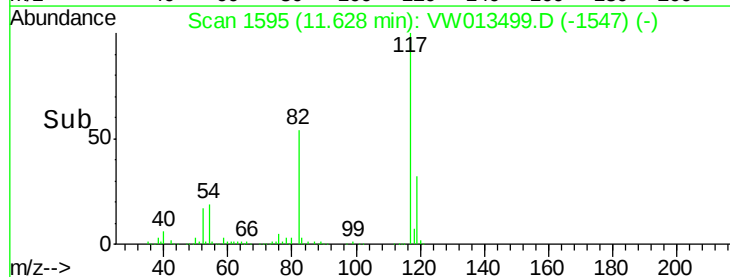
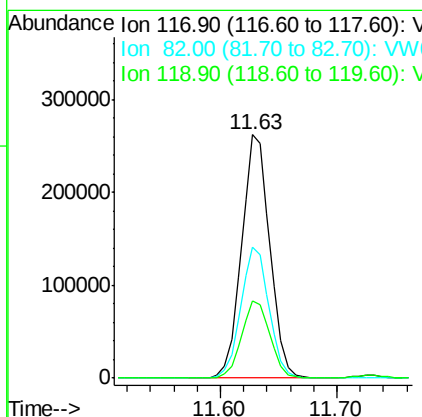
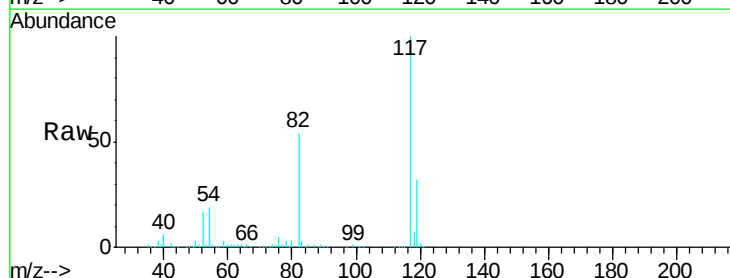
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

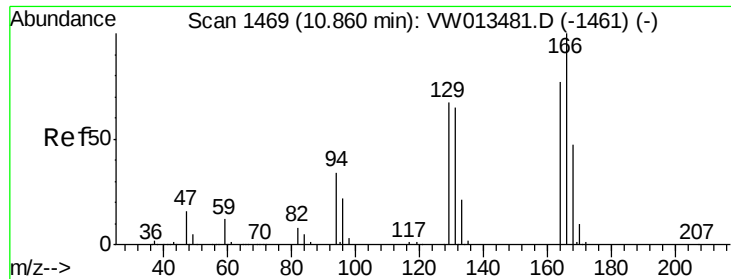
Tgt Ion: 95 Resp: 208426
Ion Ratio Lower Upper
95 100
174 91.4 0.0 177.4
176 87.9 0.0 173.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.01 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

Tgt Ion: 117 Resp: 441277
Ion Ratio Lower Upper
117 100
82 53.6 41.4 62.2
119 32.0 25.1 37.7

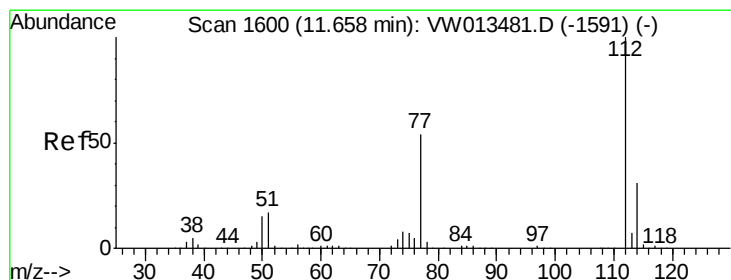
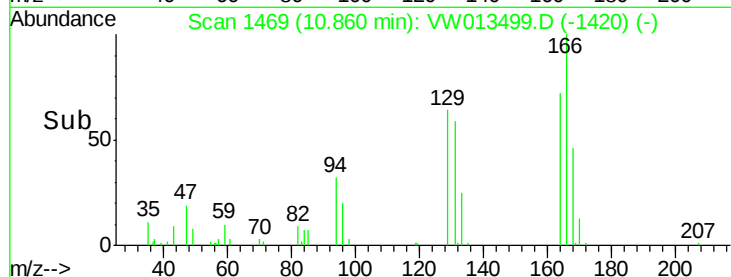
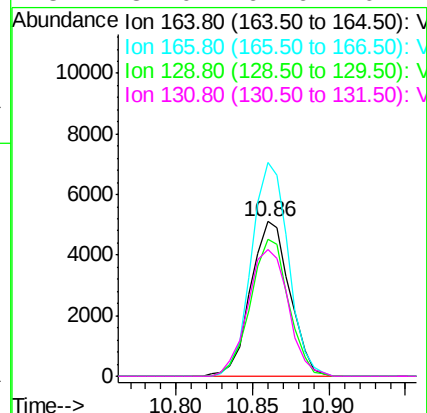
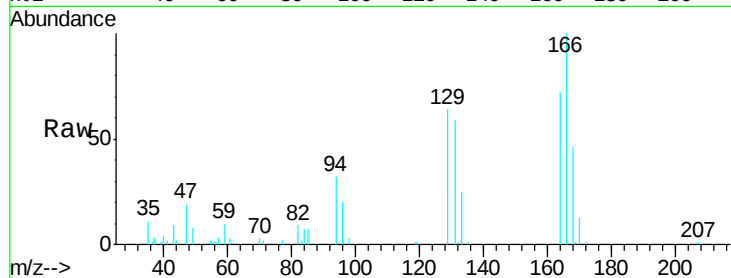




#64
Tetrachloroethene
Concen: 2.797 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

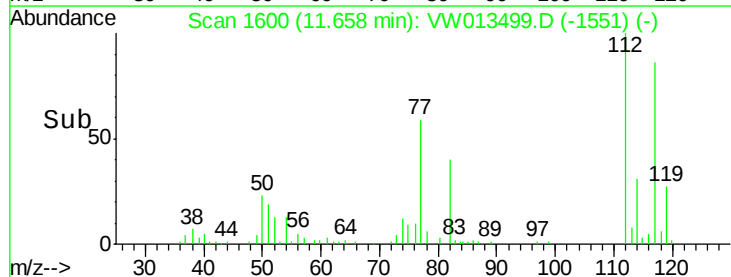
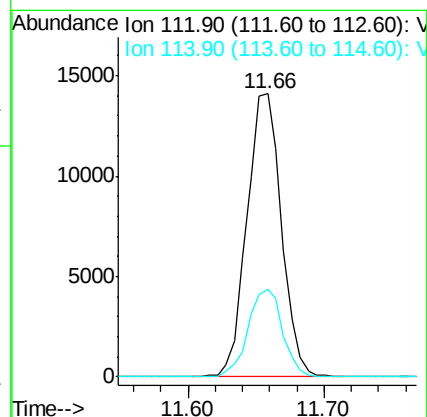
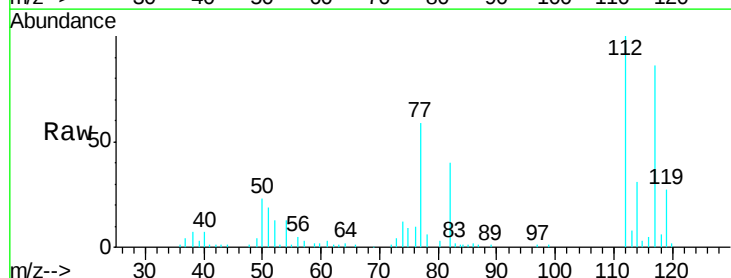
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

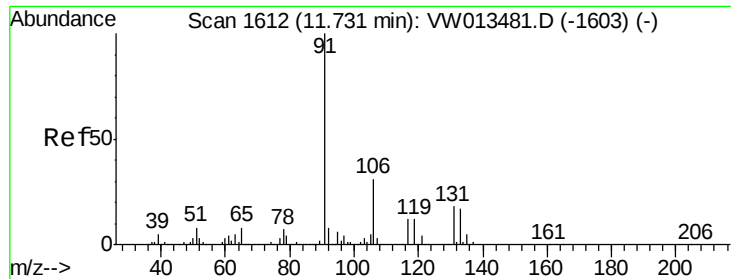
Tgt Ion:164 Resp: 9085
Ion Ratio Lower Upper
164 100
166 138.4 104.6 156.8
129 89.1 70.2 105.2
131 82.0 67.6 101.4



#65
Chlorobenzene
Concen: 2.859 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

Tgt Ion:112 Resp: 25065
Ion Ratio Lower Upper
112 100
114 30.8 24.6 37.0

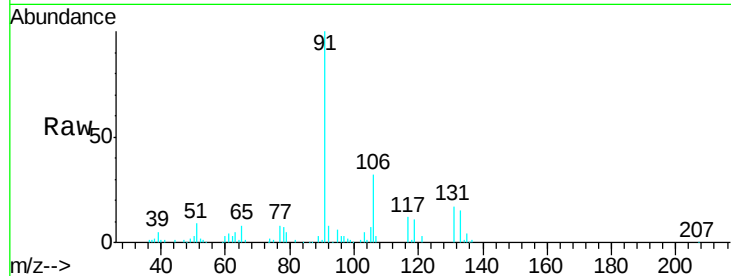




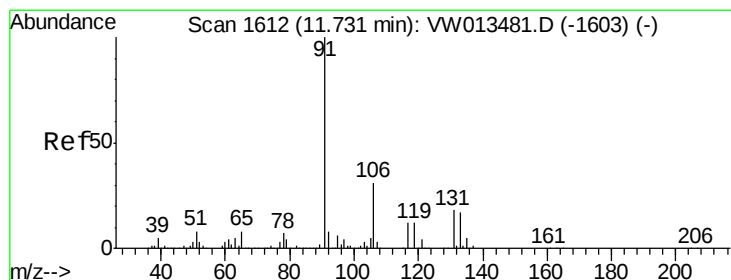
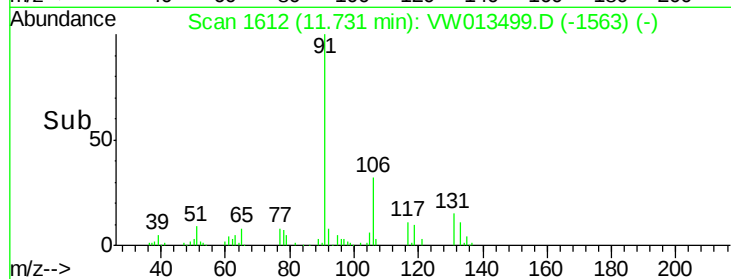
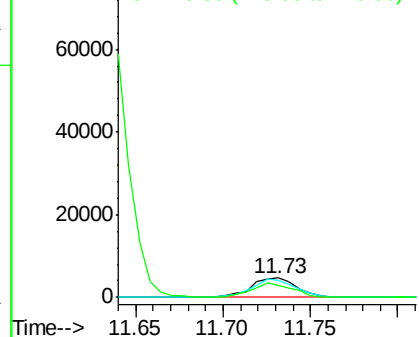
#66
 1,1,1,2-Tetrachloroethane
 Concen: 2.678 ug/l
 RT: 11.73 min Scan# 1612
 Delta R.T. 0.00 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

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

Tgt Ion:131 Resp: 8157
 Ion Ratio Lower Upper
 131 100
 133 91.7 47.6 142.9
 119 68.4 32.6 98.0

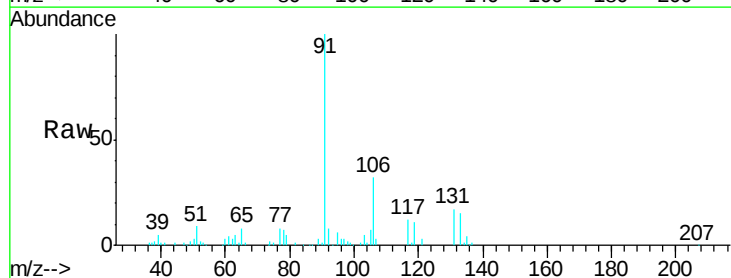


Abundance Ion 130.80 (130.50 to 131.50): V
 Ion 132.80 (132.50 to 133.50): V
 Ion 118.80 (118.50 to 119.50): V

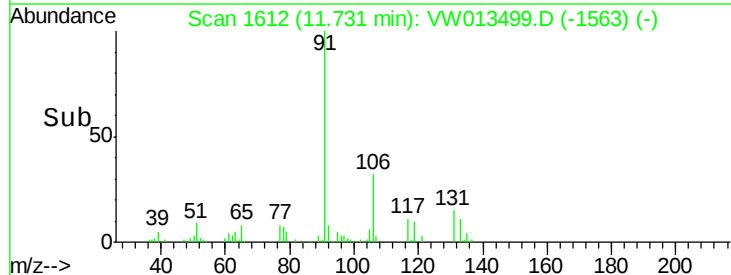
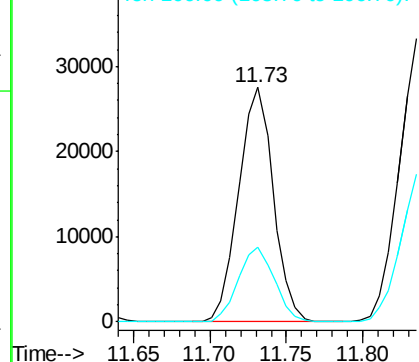


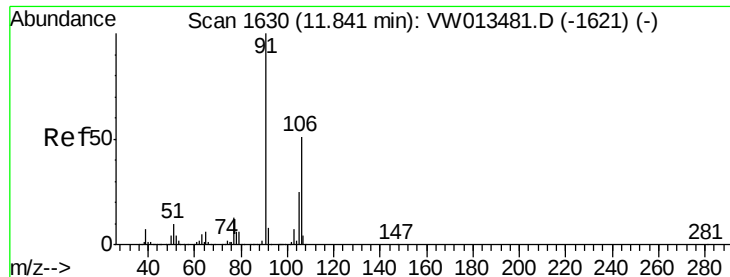
#67
 Ethyl Benzene
 Concen: 2.712 ug/l
 RT: 11.73 min Scan# 1612
 Delta R.T. 0.00 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

Tgt Ion: 91 Resp: 43465
 Ion Ratio Lower Upper
 91 100
 106 32.2 24.8 37.2



Abundance Ion 91.00 (90.70 to 91.70): VW
 Ion 106.00 (105.70 to 106.70): V

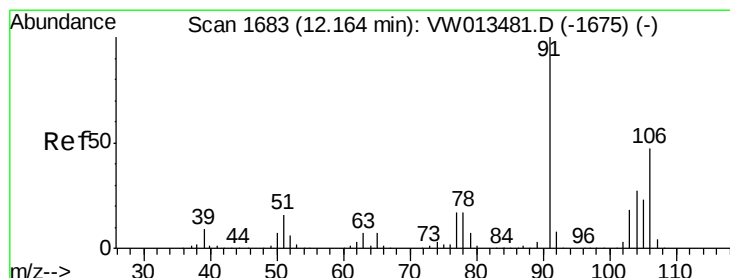
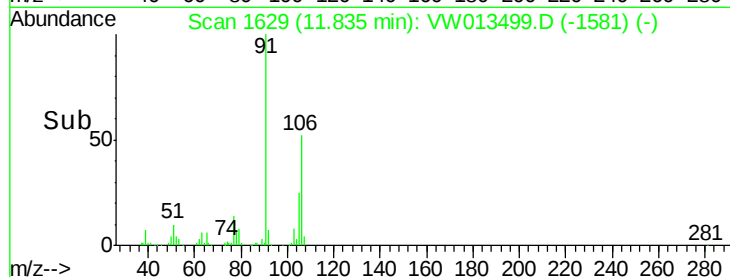
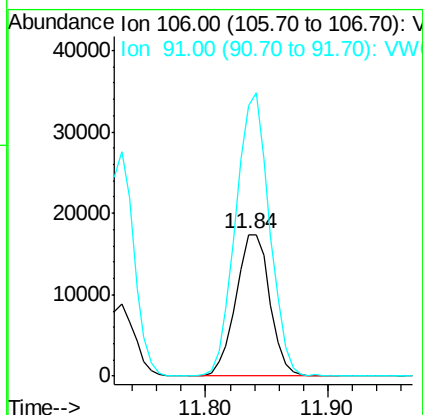
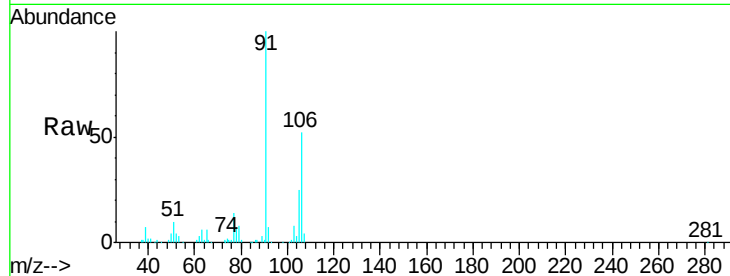




#68
m/p-Xylenes
Concen: 5.503 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

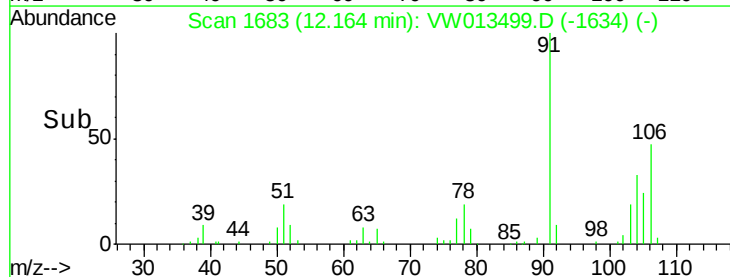
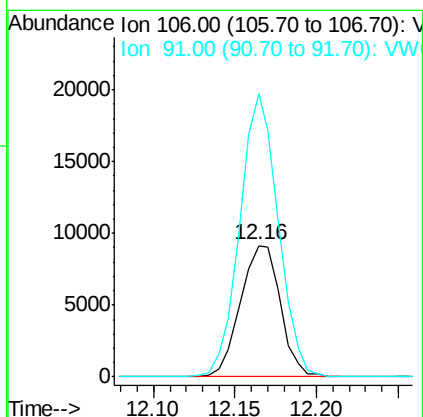
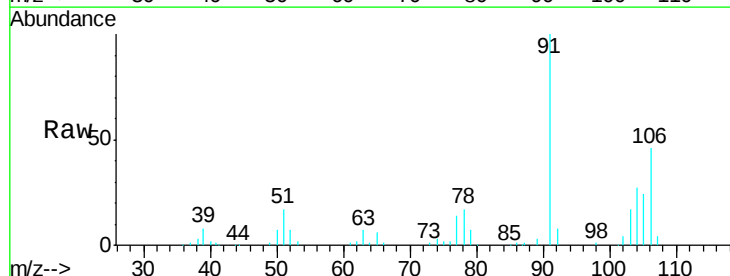
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

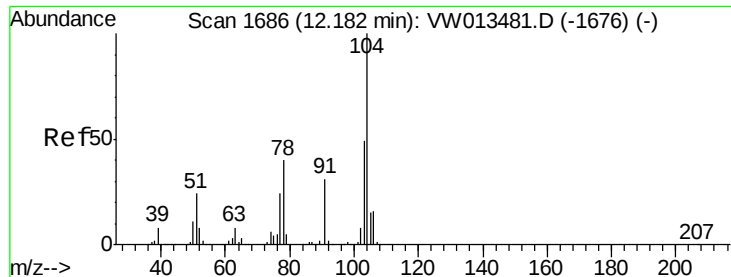
Tgt Ion:106 Resp: 33554
Ion Ratio Lower Upper
106 100
91 198.1 156.2 234.4



#69
o-Xylene
Concen: 2.775 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

Tgt Ion:106 Resp: 15635
Ion Ratio Lower Upper
106 100
91 206.7 105.0 315.0

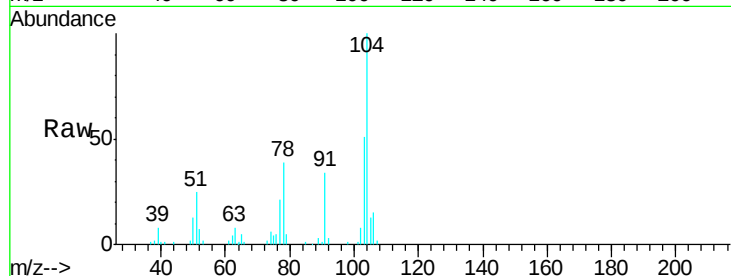




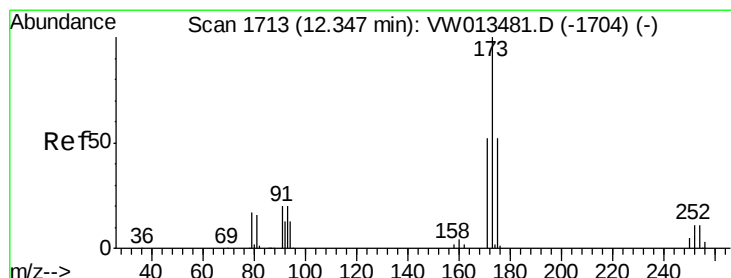
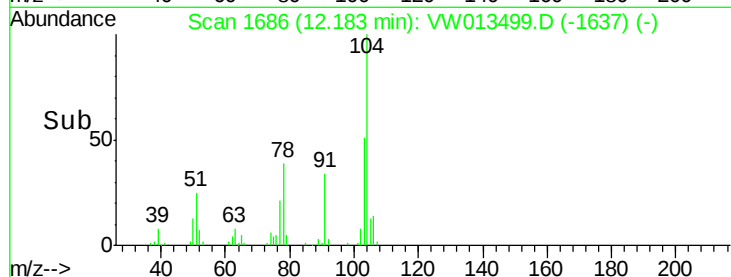
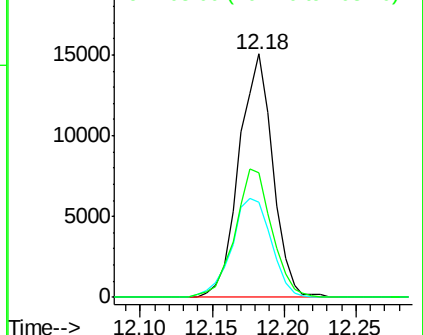
#70
Styrene
Concen: 2.529 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

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

Tgt Ion:104 Resp: 24464
Ion Ratio Lower Upper
104 100
78 47.9 37.1 55.7
103 57.4 43.2 64.8

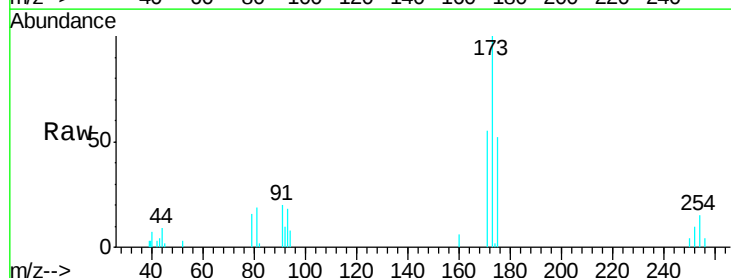


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

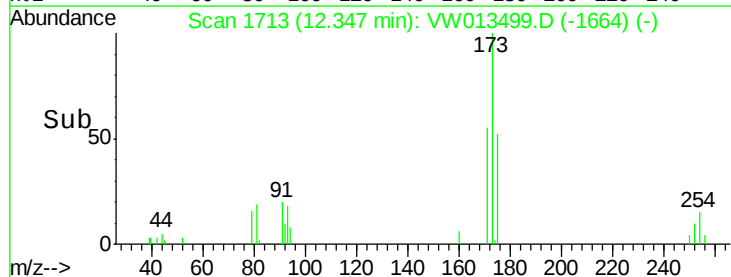
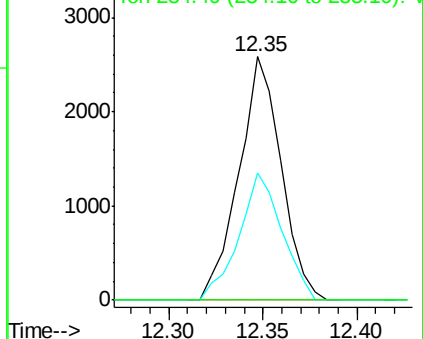


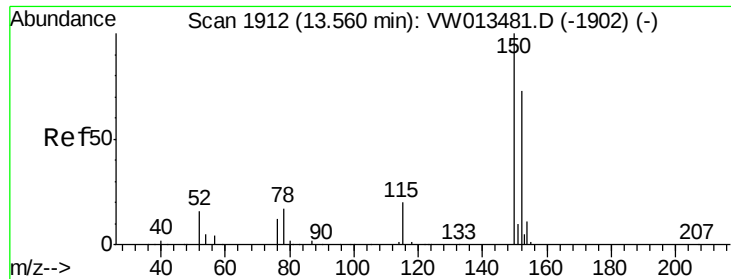
#71
Bromoform
Concen: 2.407 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

Tgt Ion:173 Resp: 4022
Ion Ratio Lower Upper
173 100
175 53.0 24.4 73.4
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

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

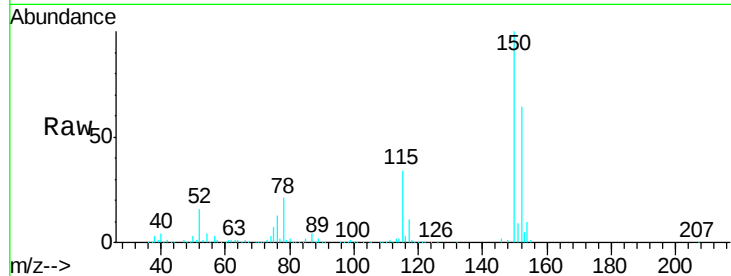
Tgt Ion:152 Resp: 217775

Ion Ratio Lower Upper

152 100

115 55.5 27.0 81.0

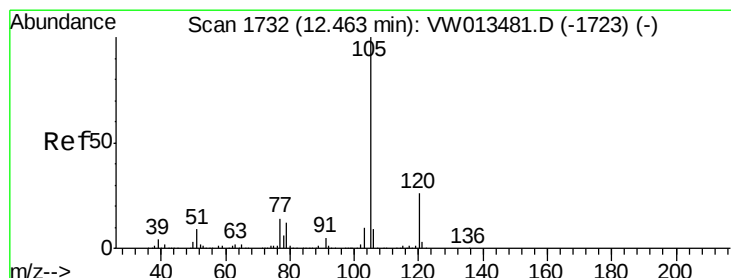
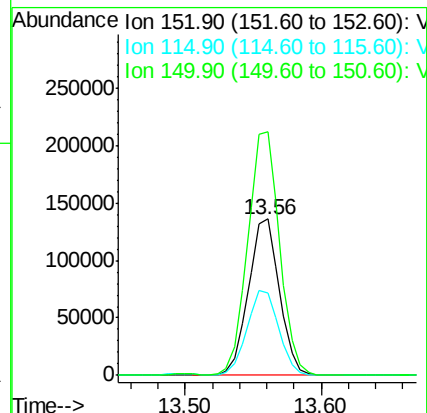
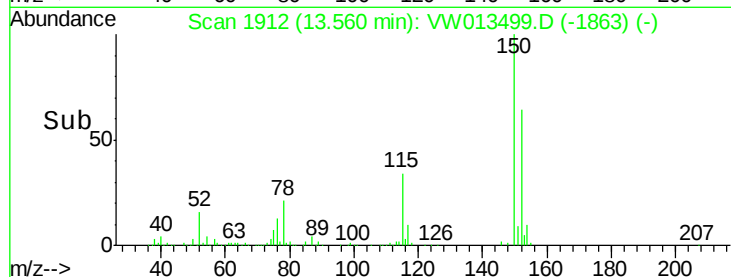
150 159.6 0.0 337.4



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: 2.712 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW013499.D

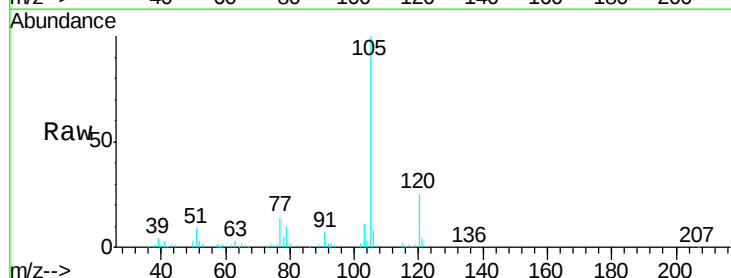
Acq: 09 Oct 2019 13:09

Tgt Ion:105 Resp: 42311

Ion Ratio Lower Upper

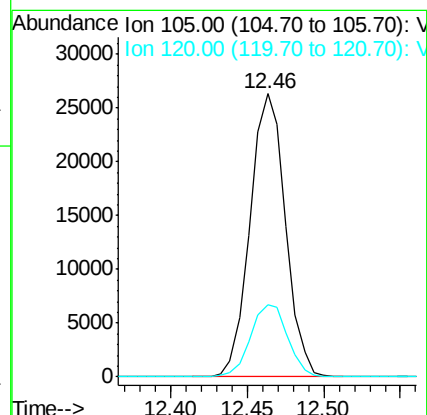
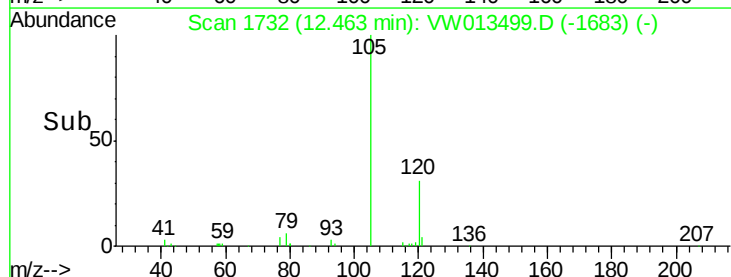
105 100

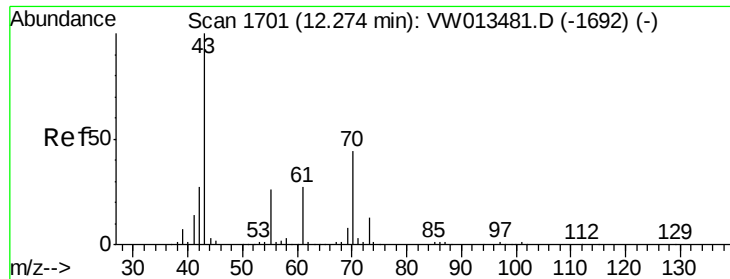
120 26.8 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

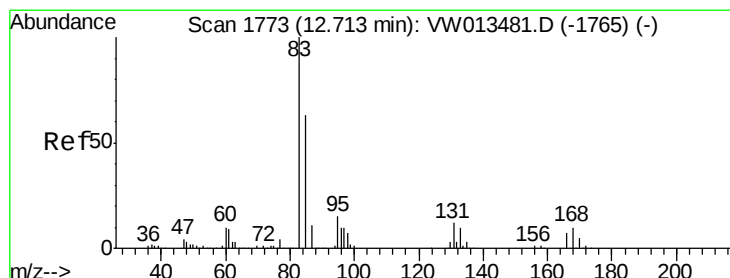
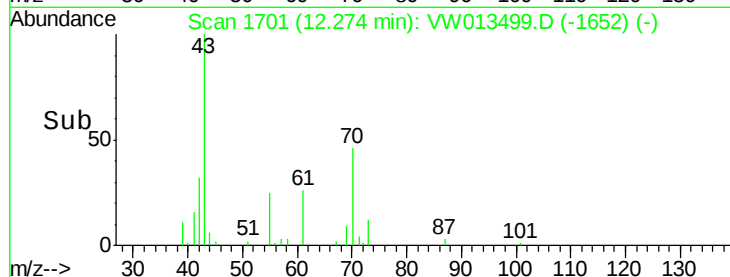
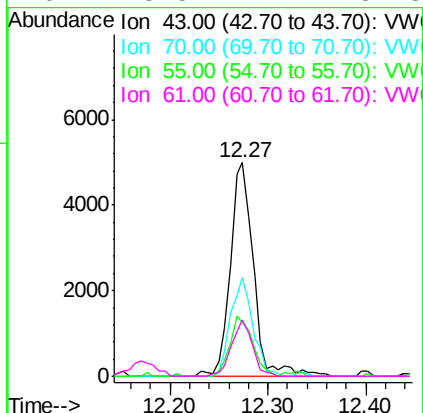
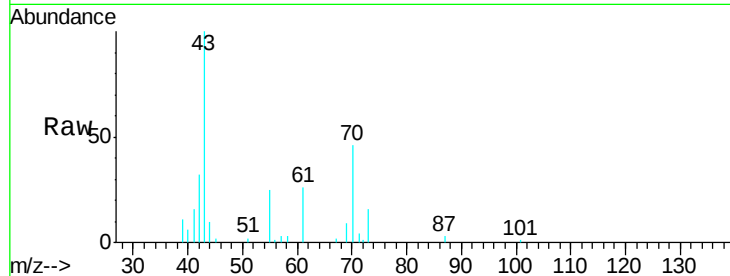




#74
N-ethyl acetate
Concen: 2.411 ug/l
RT: 12.27 min Scan# 1701
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

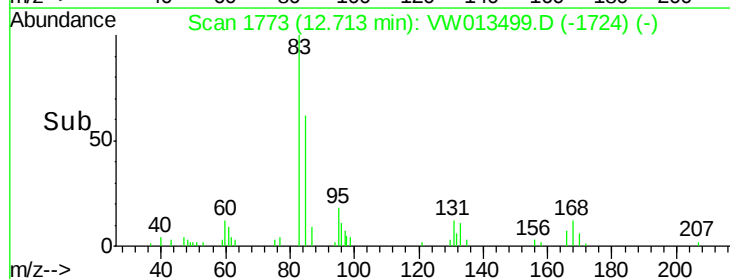
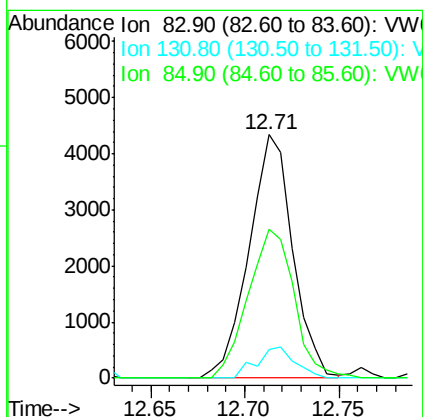
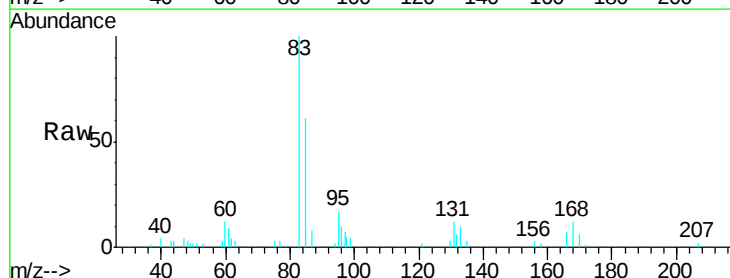
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

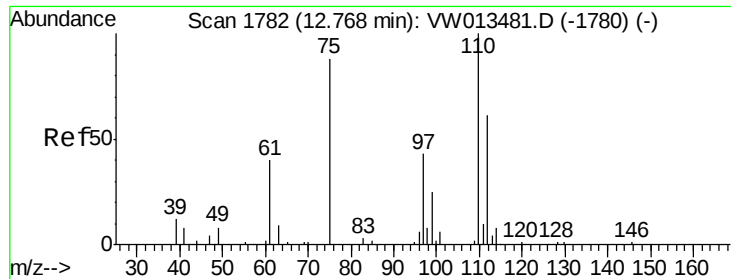
Tgt Ion: 43 Resp: 8224
Ion Ratio Lower Upper
43 100
70 44.5 35.3 52.9
55 27.1 20.0 30.0
61 23.5 21.2 31.8



#75
1,1,2,2-Tetrachloroethane
Concen: 2.625 ug/l
RT: 12.71 min Scan# 1773
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

Tgt Ion: 83 Resp: 6980
Ion Ratio Lower Upper
83 100
131 11.0 5.9 17.7
85 64.2 32.5 97.4





#76

1,2,3-Trichloropropane

Concen: 4.677 ug/l

RT: 12.76 min Scan# 1781

Delta R.T. -0.01 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

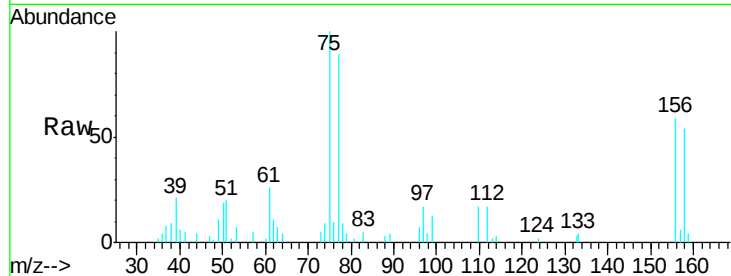
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion: 75 Resp: 8483

Ion Ratio Lower Upper

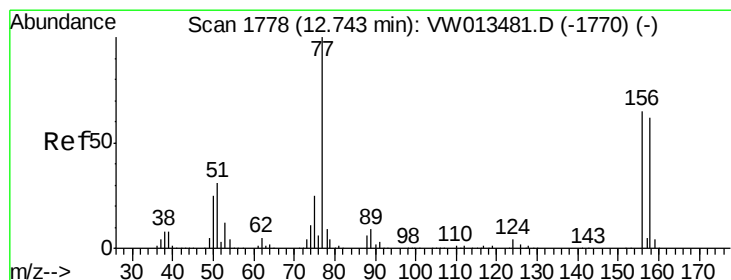
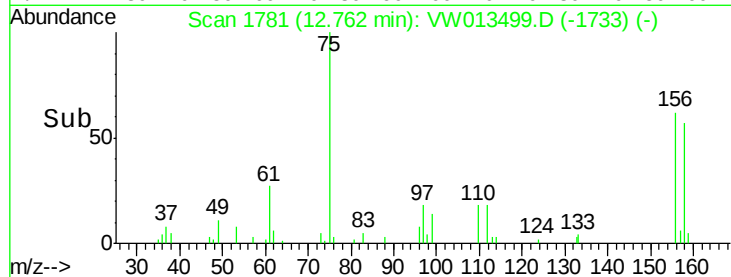
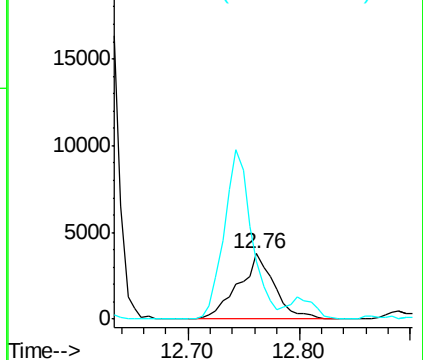
75 100

77 197.7 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW



#77

Bromobenzene

Concen: 2.794 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

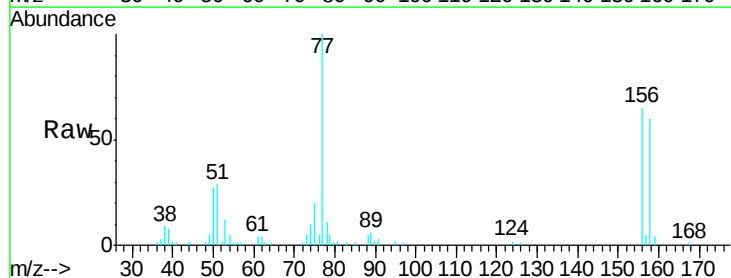
Tgt Ion: 156 Resp: 10331

Ion Ratio Lower Upper

156 100

77 162.3 83.7 251.0

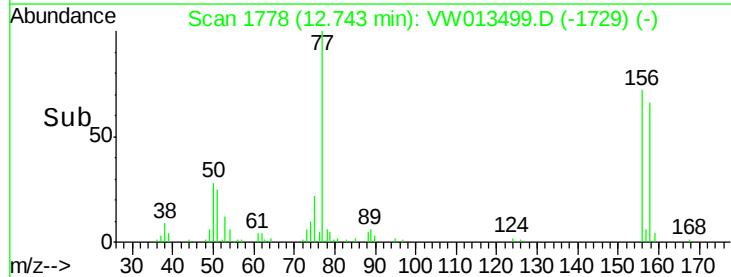
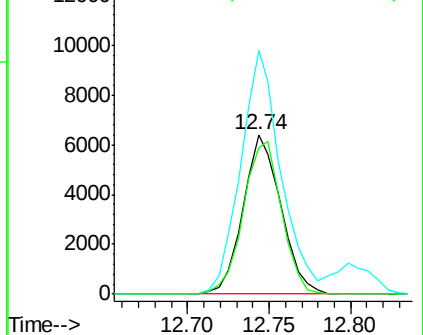
158 96.9 49.0 147.0

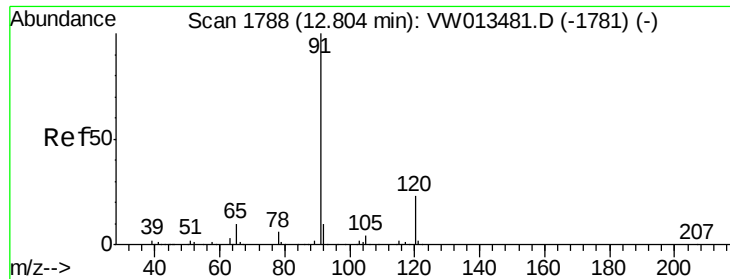


Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V

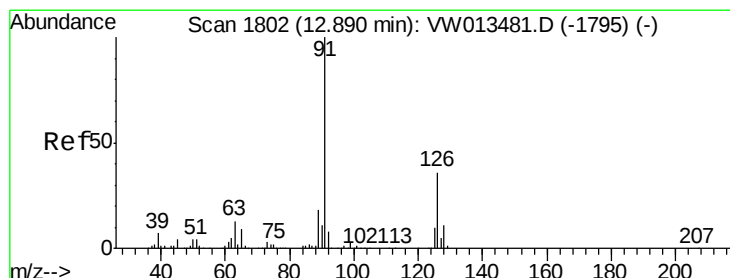
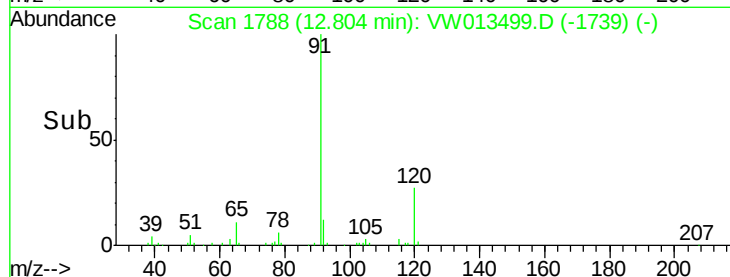
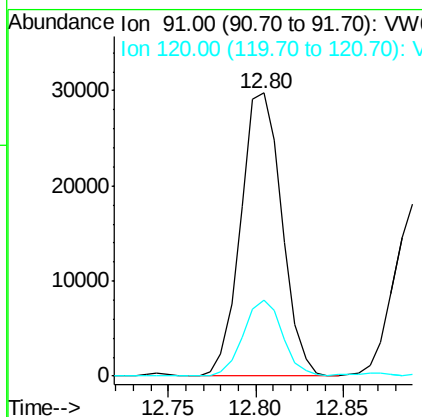
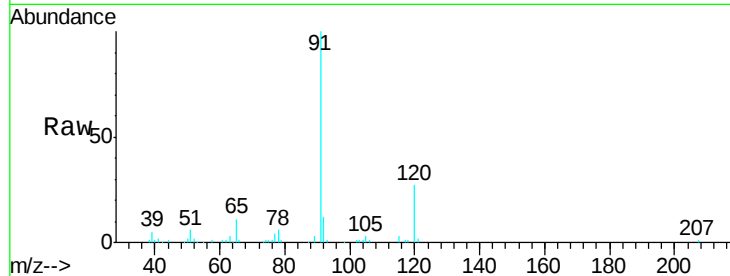




#78
n-propylbenzene
Concen: 2.711 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

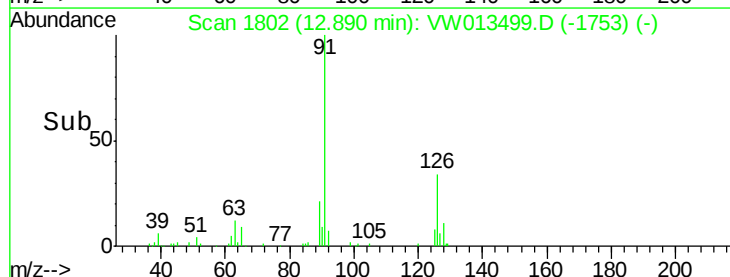
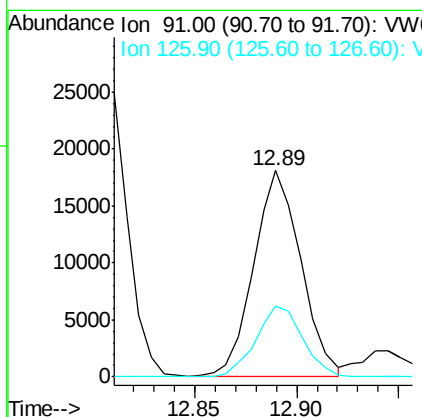
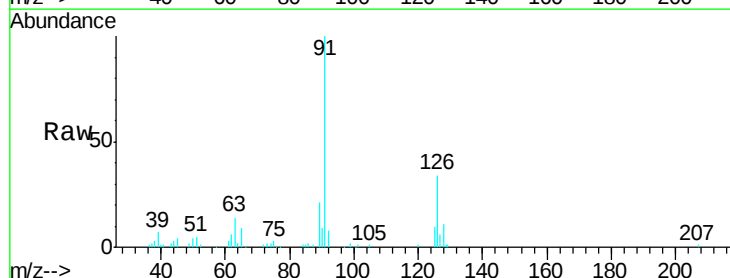
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

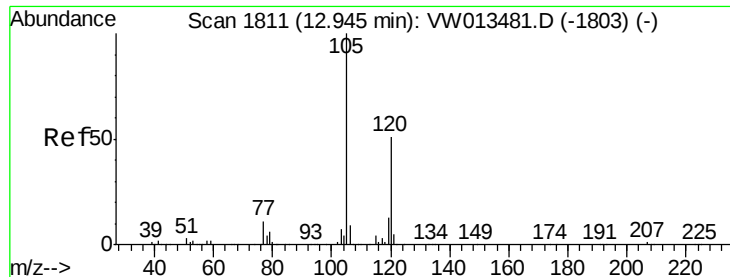
Tgt Ion: 91 Resp: 48902
Ion Ratio Lower Upper
91 100
120 25.5 11.7 35.1



#79
2-Chlorotoluene
Concen: 2.897 ug/l
RT: 12.89 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

Tgt Ion: 91 Resp: 29273
Ion Ratio Lower Upper
91 100
126 33.9 17.8 53.4

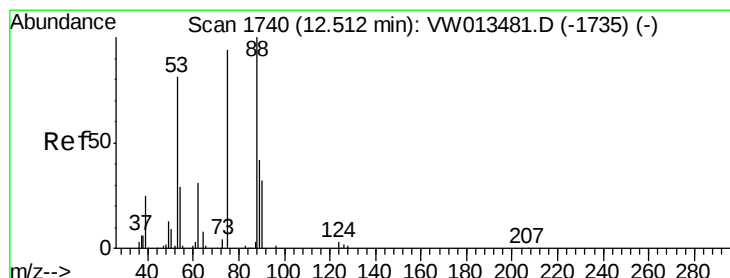
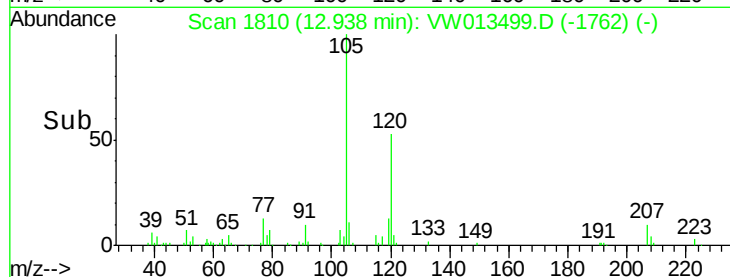
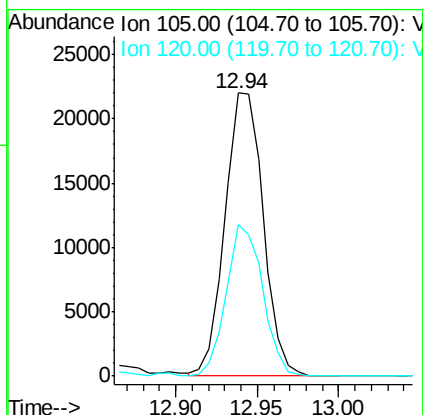
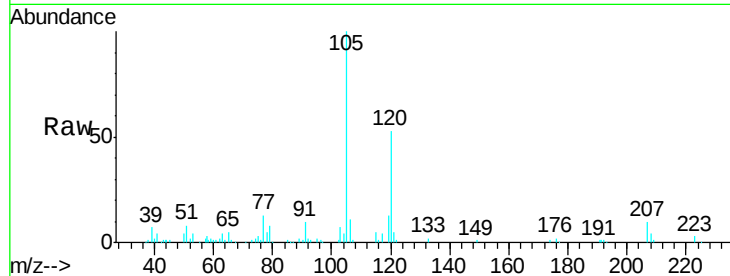




#80
 1,3,5-Trimethylbenzene
 Concen: 2.772 ug/l
 RT: 12.94 min Scan# 1810
 Delta R.T. -0.01 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

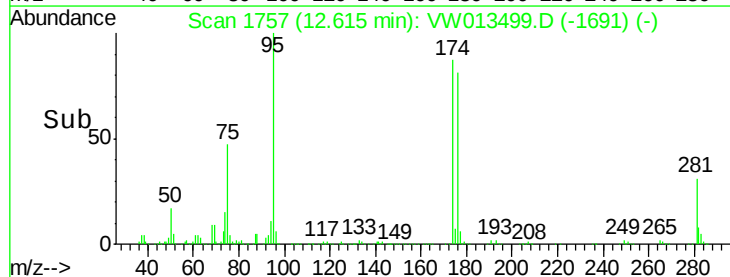
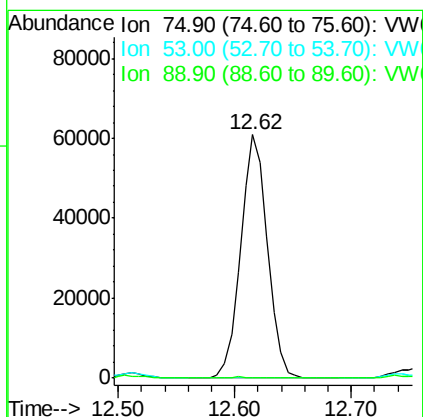
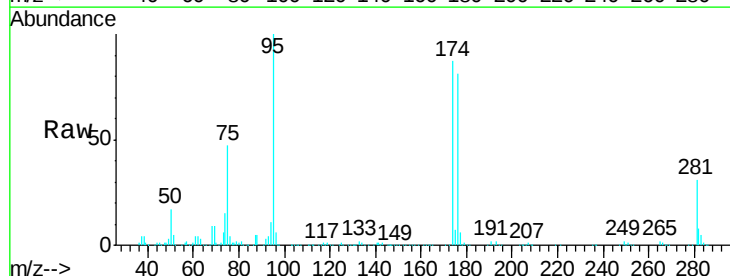
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

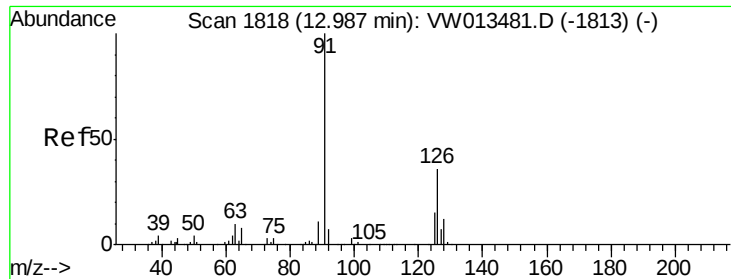
Tgt Ion: 105 Resp: 35926
 Ion Ratio Lower Upper
 105 100
 120 51.1 25.4 76.0



#81
 trans-1,4-Dichloro-2-butene
 Concen: 109.579 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. 0.10 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

Tgt Ion: 75 Resp: 97228
 Ion Ratio Lower Upper
 75 100
 53 0.0 71.0 106.6#
 89 0.0 36.1 54.1#

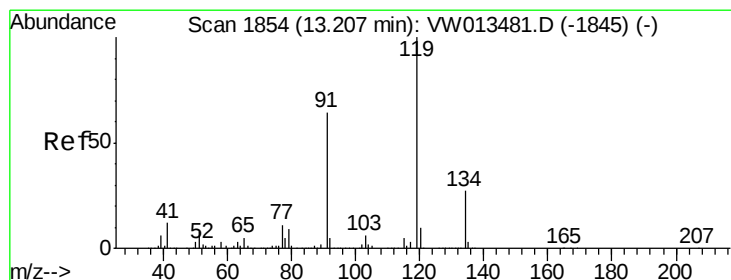
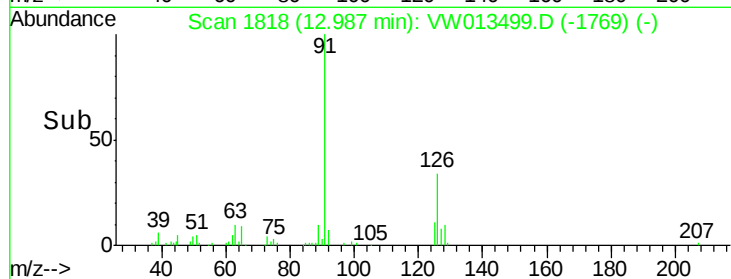
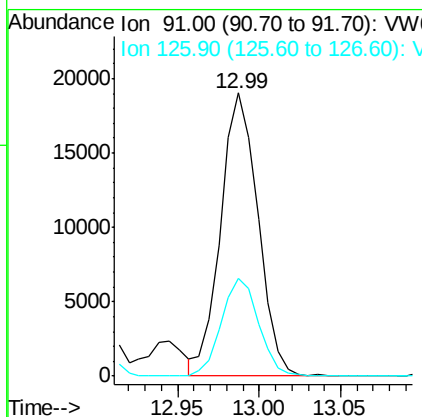
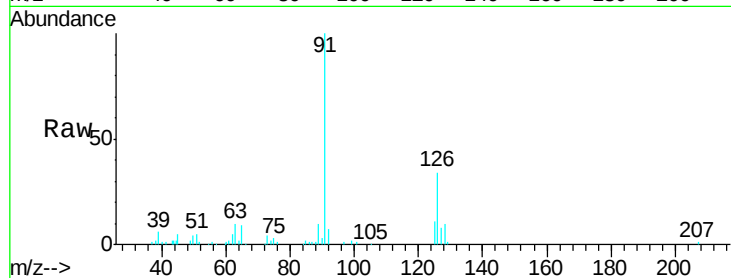




#82
4-Chlorotoluene
Concen: 2.894 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

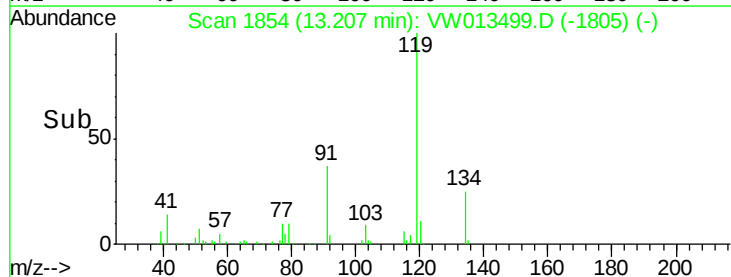
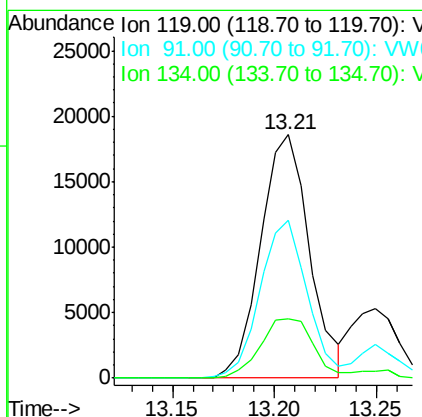
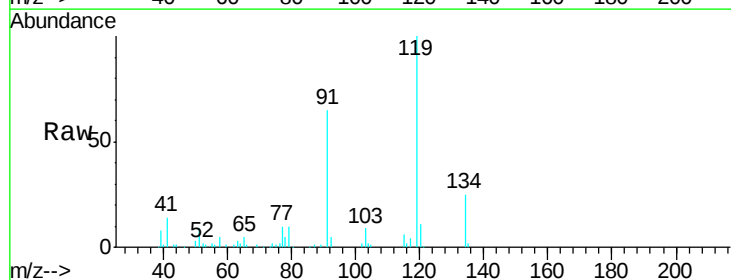
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

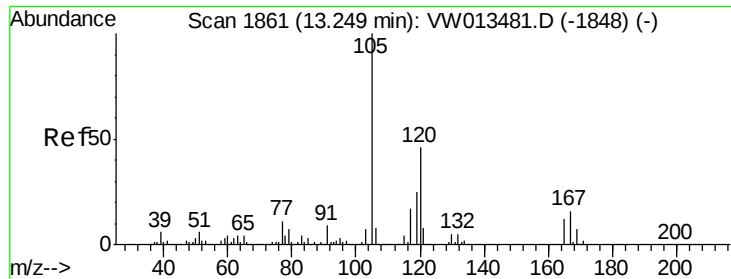
Tgt Ion: 91 Resp: 30358
Ion Ratio Lower Upper
91 100
126 34.3 17.5 52.6



#83
tert-Butylbenzene
Concen: 2.694 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

Tgt Ion: 119 Resp: 31015
Ion Ratio Lower Upper
119 100
91 62.3 30.6 91.6
134 26.7 13.8 41.3

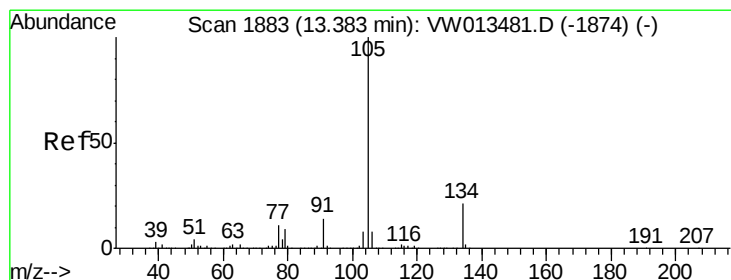
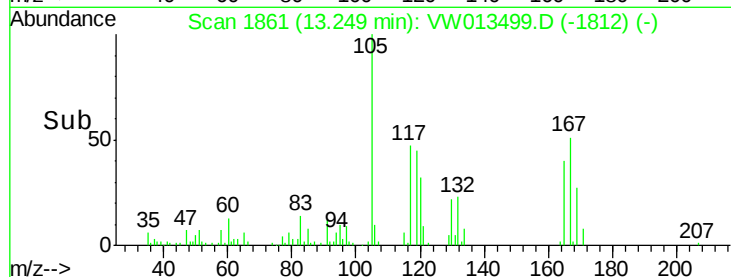
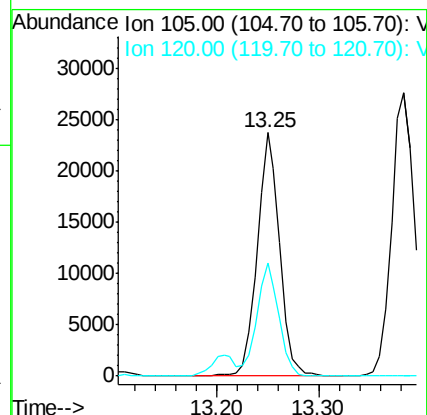
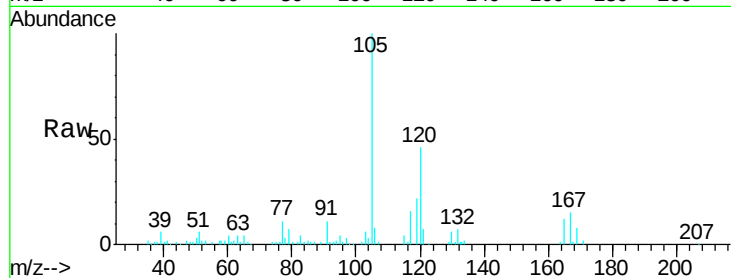




#84
1,2,4-Trimethylbenzene
Concen: 2.854 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

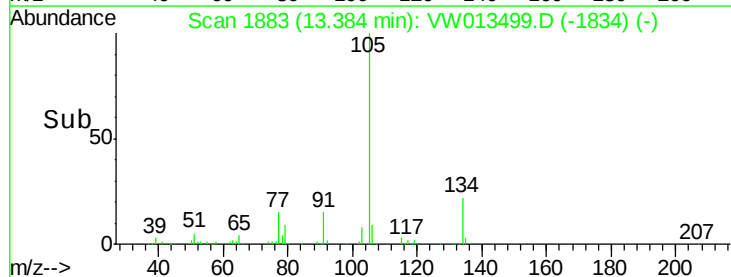
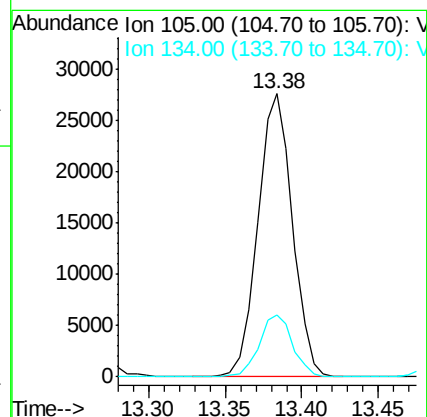
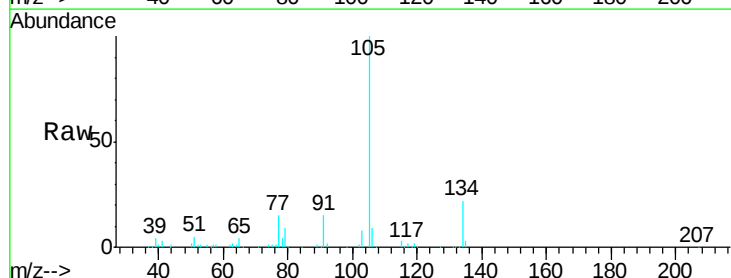
Instrument :
MSVOA_W
ClientSampleId :
MDL-MDL-SOIL-03-QT4-2019DL

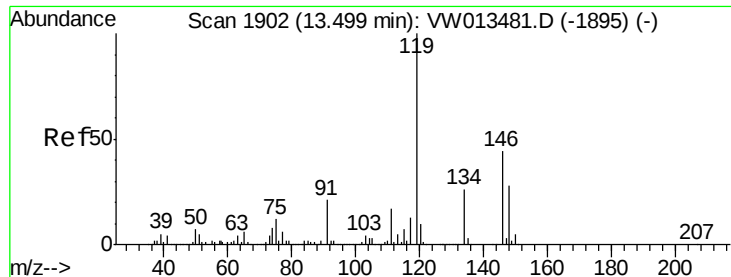
Tgt Ion:105 Resp: 36582
Ion Ratio Lower Upper
105 100
120 45.8 23.2 69.5



#85
sec-Butylbenzene
Concen: 2.726 ug/l
RT: 13.38 min Scan# 1883
Delta R.T. 0.00 min
Lab File: VW013499.D
Acq: 09 Oct 2019 13:09

Tgt Ion:105 Resp: 43356
Ion Ratio Lower Upper
105 100
134 21.3 10.4 31.4





#86

p-Isopropyltoluene

Concen: 2.710 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

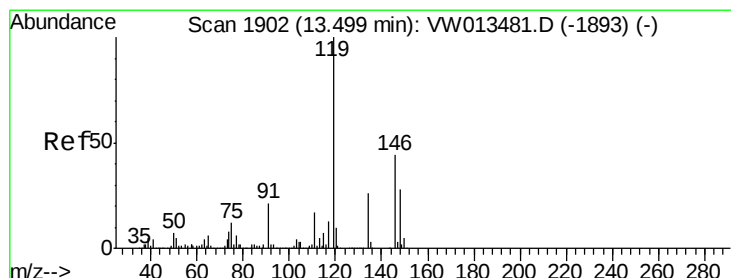
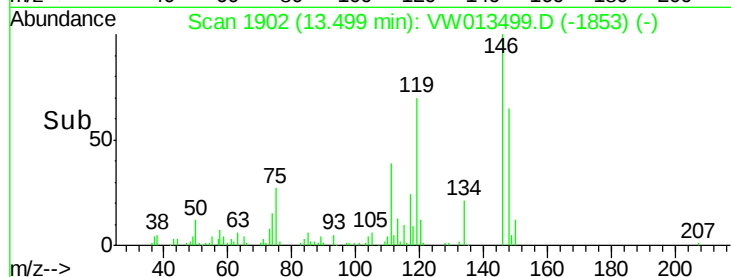
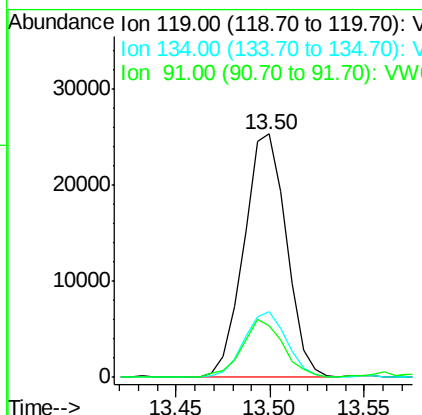
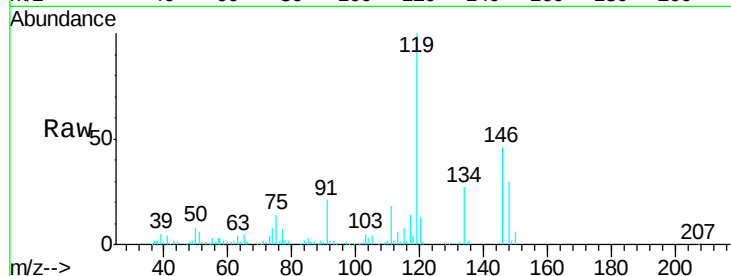
Instrument :

MSVOA_W

ClientSampleId :

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

Tgt Ion:	119	Resp:	39603
Ion	Ratio	Lower	Upper
119	100		
134	27.0	13.1	39.1
91	23.1	10.8	32.3



#87

1,3-Dichlorobenzene

Concen: 2.832 ug/l

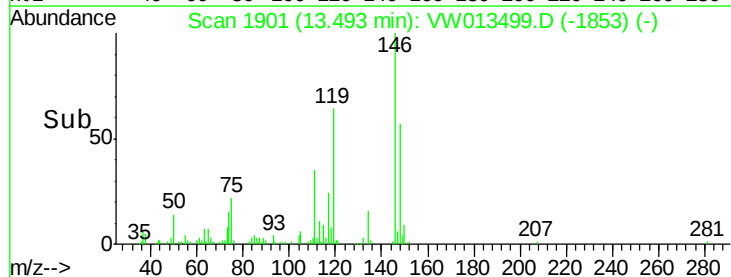
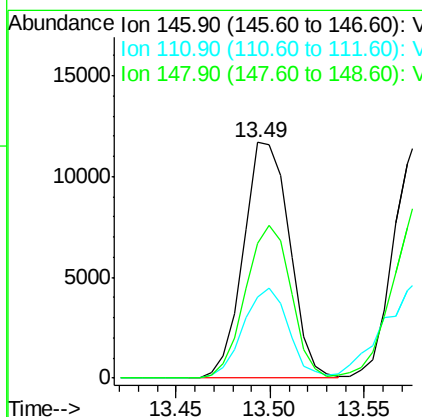
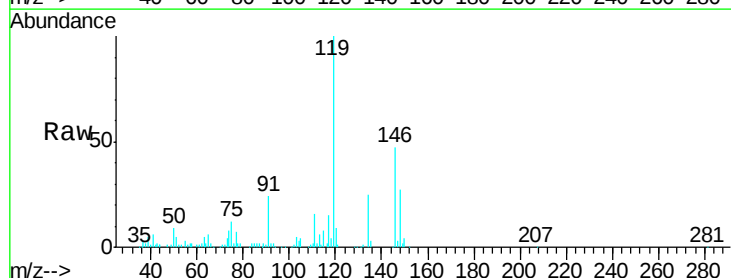
RT: 13.49 min Scan# 1901

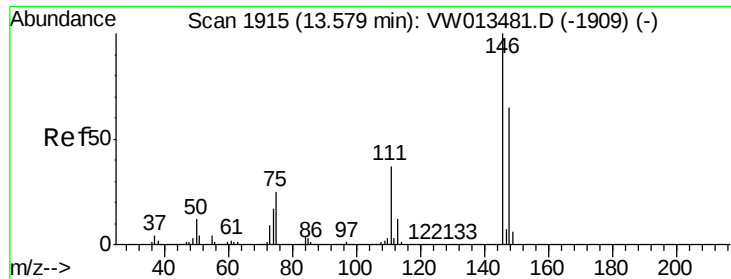
Delta R.T. -0.01 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Tgt Ion:	146	Resp:	19853
Ion	Ratio	Lower	Upper
146	100		
111	37.7	18.7	56.1
148	63.8	32.3	96.8

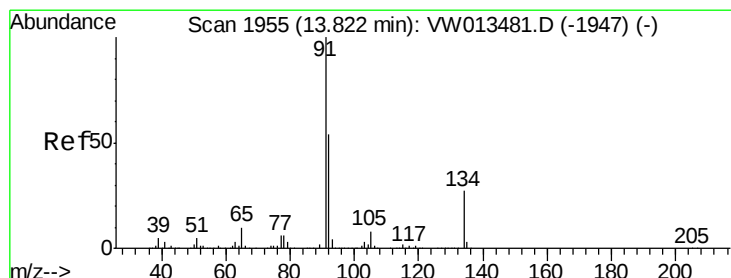
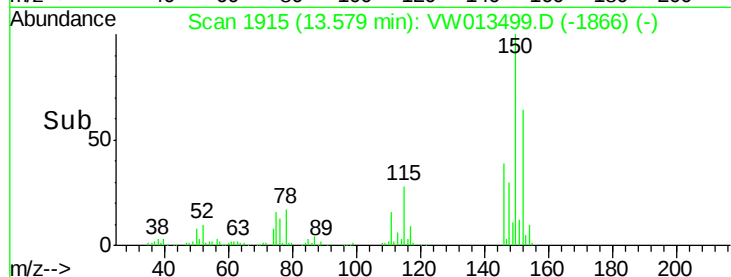
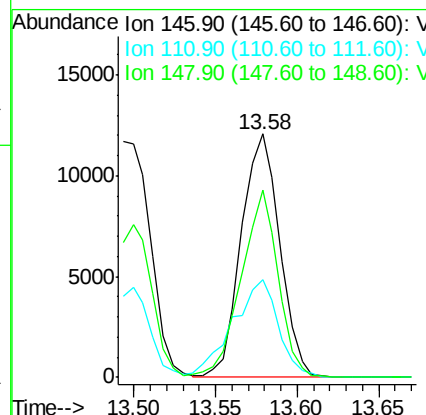
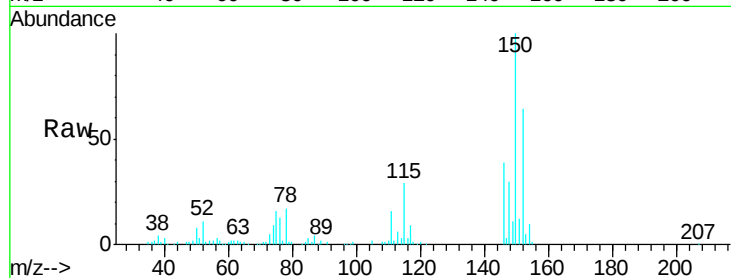




#88
 1,4-Dichlorobenzene
 Concen: 2.897 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

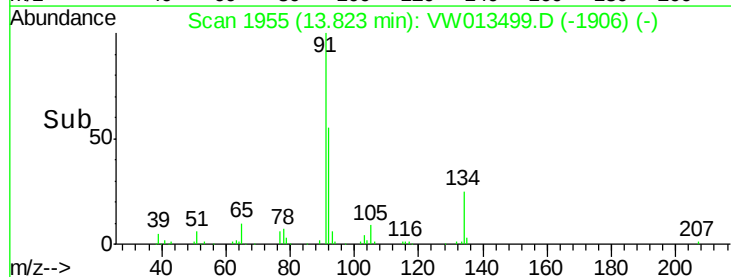
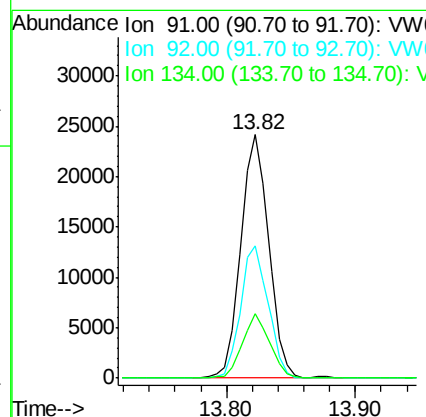
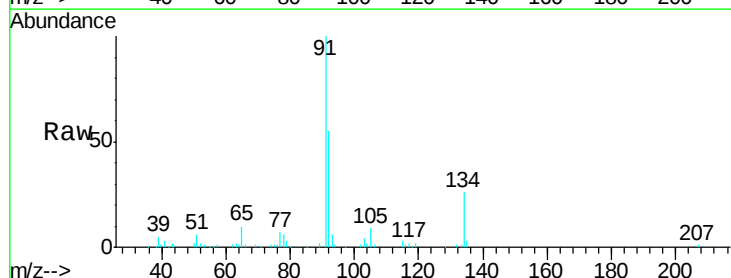
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

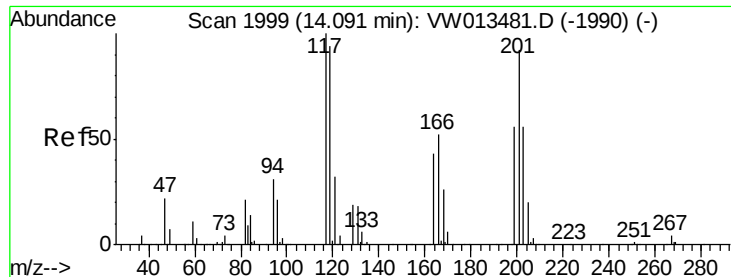
Tgt Ion: 146 Resp: 19899
 Ion Ratio Lower Upper
 146 100
 111 48.0 18.4 55.4
 148 73.5 32.0 96.2



#89
 n-Butylbenzene
 Concen: 2.748 ug/l
 RT: 13.82 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

Tgt Ion: 91 Resp: 36276
 Ion Ratio Lower Upper
 91 100
 92 53.6 27.5 82.4
 134 25.6 13.8 41.3





#90

Hexachloroethane

Concen: 2.858 ug/l

RT: 14.09 min Scan# 1999

Delta R.T. 0.00 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

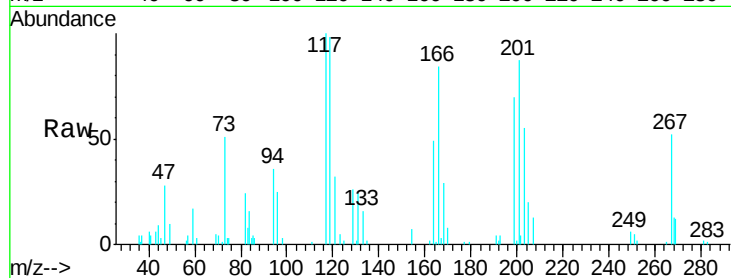
MDL-MDL-SOIL-03-QT4-2019DL

Tgt Ion:117 Resp: 7147

Ion Ratio Lower Upper

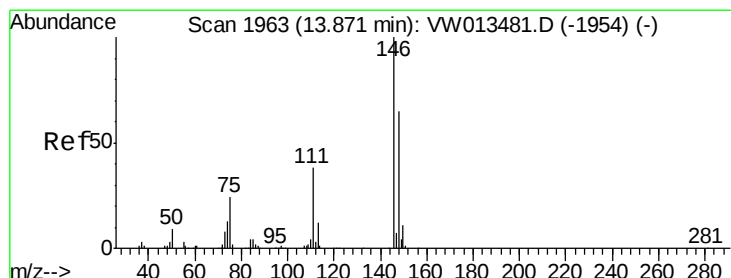
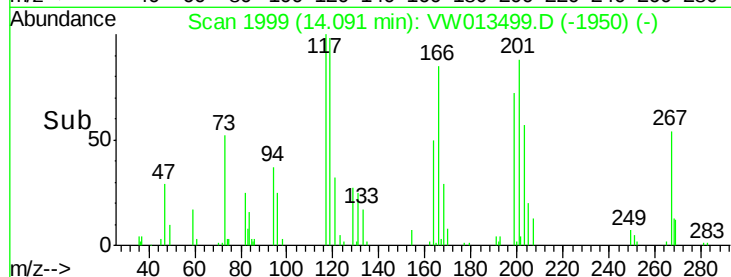
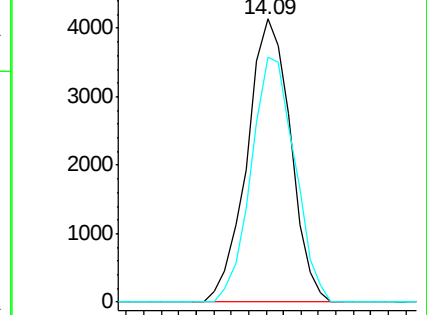
117 100

201 86.7 46.9 140.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 2.864 ug/l

RT: 13.87 min Scan# 1962

Delta R.T. -0.01 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

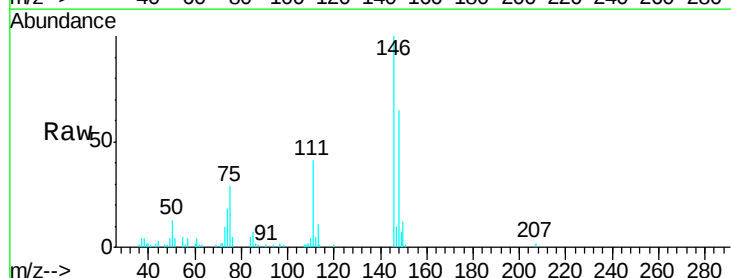
Tgt Ion:146 Resp: 17731

Ion Ratio Lower Upper

146 100

111 40.6 19.4 58.2

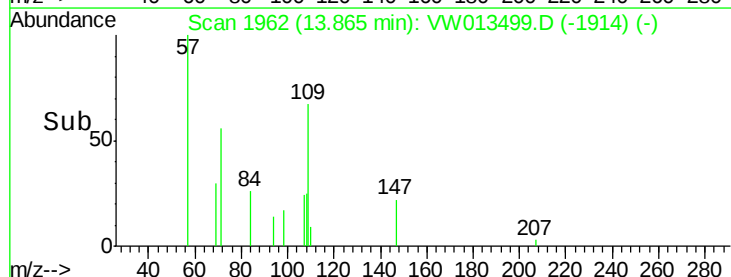
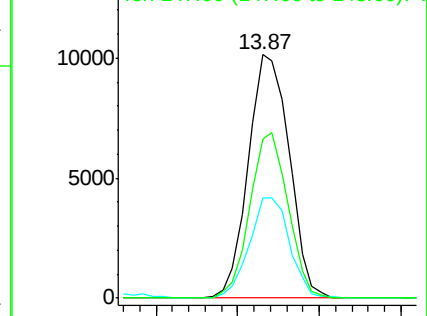
148 63.6 31.8 95.3

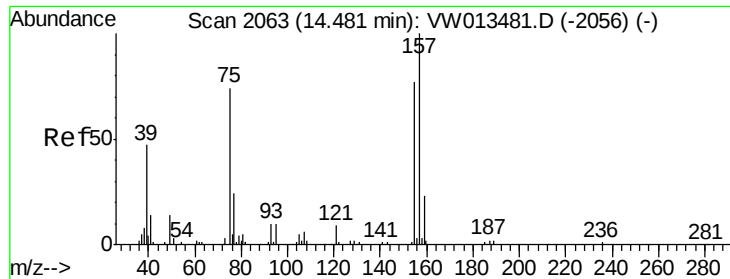


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

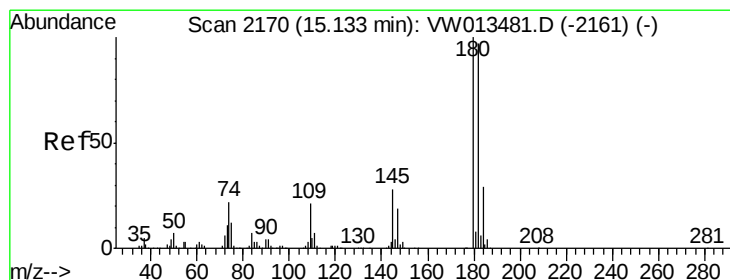
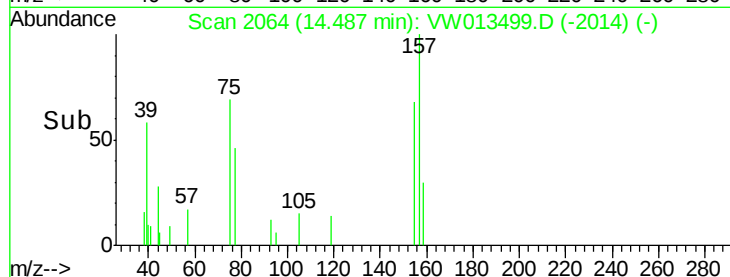
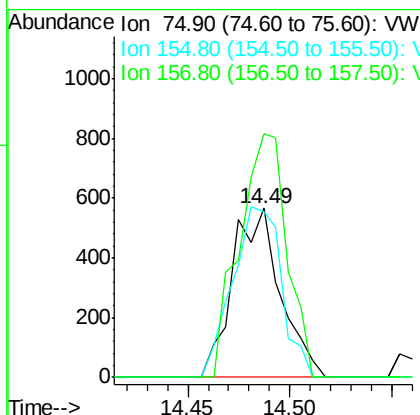
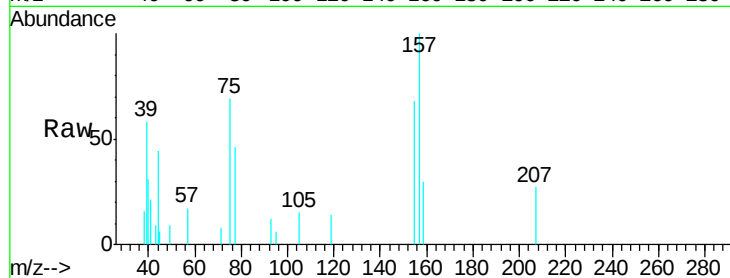




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 2.185 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.01 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

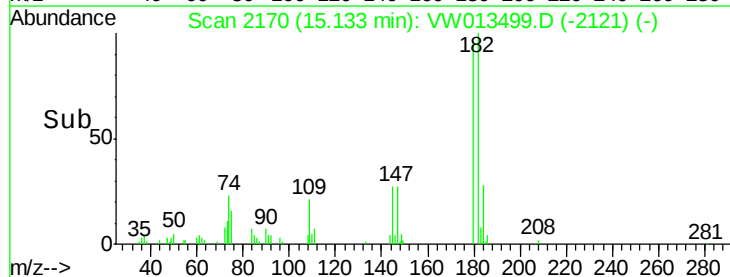
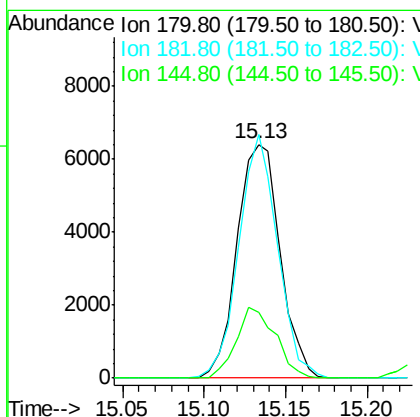
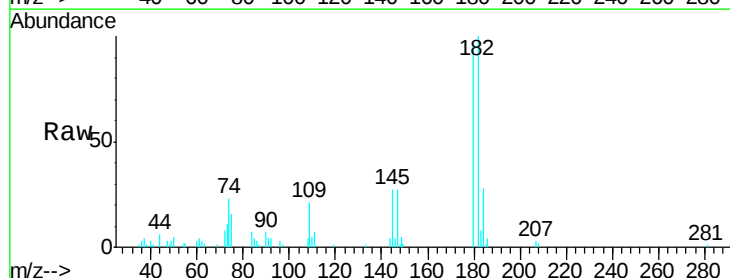
Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-MDL-SOIL-03-QT4-2019DL

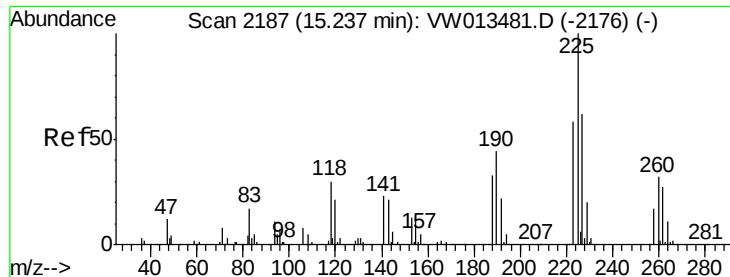
Tgt Ion: 75 Resp: 926
 Ion Ratio Lower Upper
 75 100
 155 102.6 51.0 153.1
 157 142.9 65.9 197.7



#93
 1,2,4-Trichlorobenzene
 Concen: 2.679 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

Tgt Ion: 180 Resp: 11719
 Ion Ratio Lower Upper
 180 100
 182 94.0 47.7 143.1
 145 27.6 14.0 41.9





#94

Hexachlorobutadiene

Concen: 2.964 ug/l

RT: 15.23 min Scan# 2186

Delta R.T. -0.01 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

Instrument :

MSVOA_W

ClientSampleId :

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

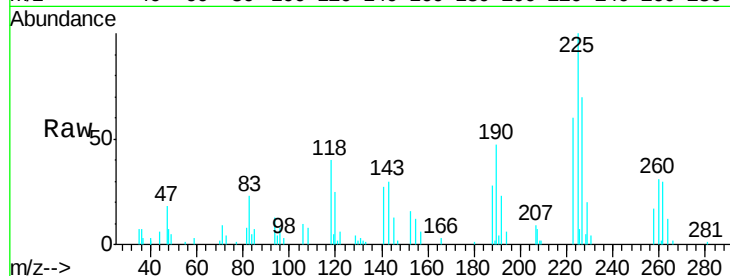
Tgt Ion:225 Resp: 8618

Ion Ratio Lower Upper

225 100

223 67.2 30.3 90.9

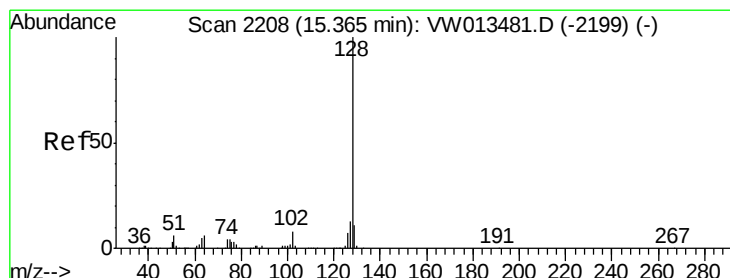
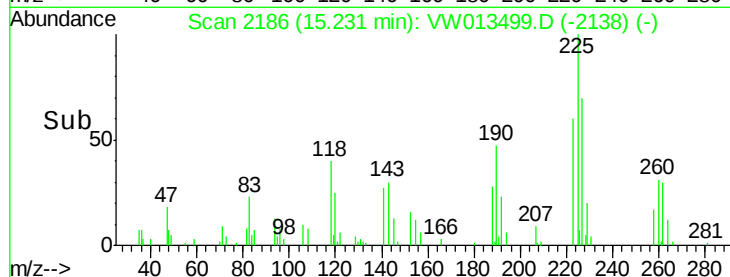
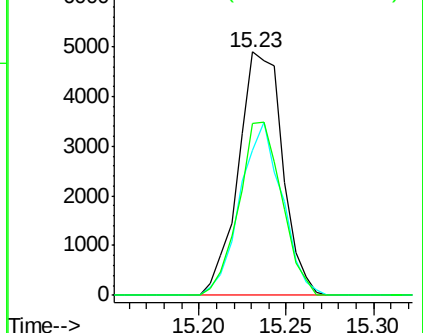
227 68.9 32.0 96.0



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.181 ug/l

RT: 15.36 min Scan# 2208

Delta R.T. 0.00 min

Lab File: VW013499.D

Acq: 09 Oct 2019 13:09

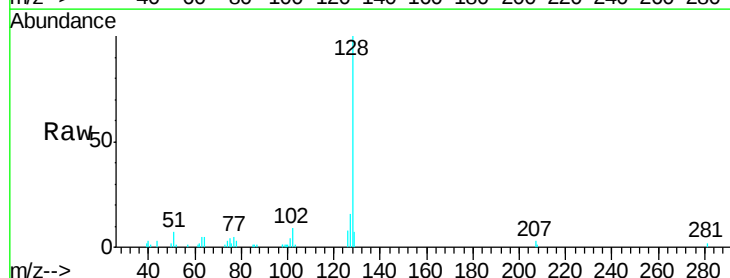
Tgt Ion:128 Resp: 16503

Ion Ratio Lower Upper

128 100

127 12.1 10.6 16.0

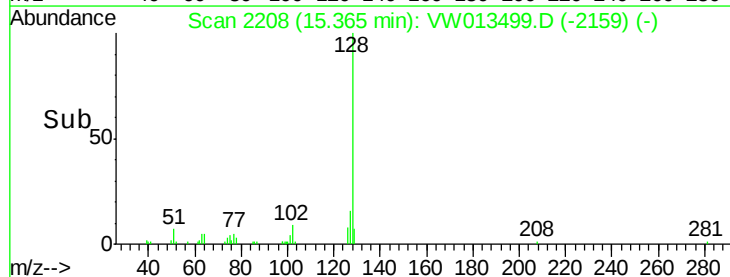
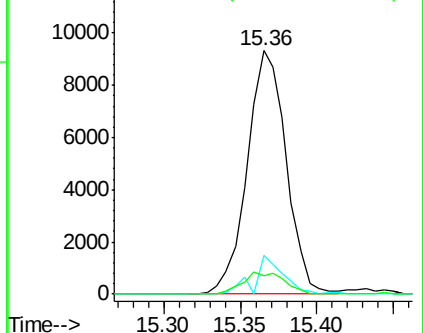
129 9.7 8.8 13.2

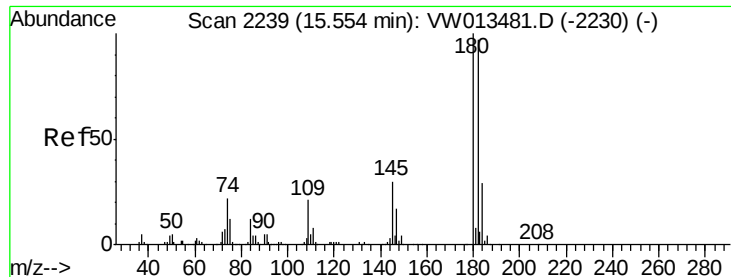


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.720 ug/l
 RT: 15.56 min Scan# 2240
 Delta R.T. 0.01 min
 Lab File: VW013499.D
 Acq: 09 Oct 2019 13:09

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

Tgt Ion:	180	Resp:	10406
Ion	Ratio	Lower	Upper
180	100		
182	92.8	47.7	143.1
145	30.5	14.9	44.9

