

Data Path : W:\HPCHEM1\MSVOA W\DATA\VW012418\
 Data File : VW000944.D
 Acq On : 24 Jan 2018 13:10
 Operator : JC/SY
 Sample : J1161-03 MDL 2.0 PPB
 Misc : 5.0G/5.0ML/MSVOA W/SOIL
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2018

Manual Integrations
 APPROVED

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 1/25/2018 1:33:56 PM

Quant Time: Jan 25 11:53:27 2018
 Quant Method : W:\HPCHEM1\MSVOA_W\METHOD\82W012318S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 23 13:31:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	245378	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	359900	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.65	117	322724	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.58	152	169991	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	119171	50.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.34%	
35) Dibromofluoromethane	7.89	113	96179	43.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.24%	
50) Toluene-d8	10.34	98	424722	48.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.72%	
62) 4-Bromofluorobenzene	12.63	95	145779	46.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.10%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.00	85	5469	2.31	ug/l	99
3) Chloromethane	2.22	50	4801	2.30	ug/l	95
4) Vinyl Chloride	2.36	62	4041	2.08	ug/l #	84
5) Bromomethane	2.76	94	3648	2.74	ug/l	90
6) Chloroethane	2.91	64	2332	2.16	ug/l	100
7) Trichlorofluoromethane	3.26	101	7344	2.05	ug/l	84
8) Diethyl Ether	3.67	74	1973	2.20	ug/l	54
9) 1,1,2-Trichlorotrifluoroet	4.04	101	5525	2.39	ug/l	95
10) Methyl Iodide	4.27	142	3770	6.24	ug/l	95
11) Tert butyl alcohol	5.18	59	3166m	12.41	ug/l	
12) 1,1-Dichloroethene	4.03	96	4620	2.32	ug/l #	79
13) Acrolein	3.90	56	2156	8.66	ug/l	99
14) Allyl chloride	4.66	41	6214	2.01	ug/l	95
15) Acrylonitrile	5.38	53	6815	9.73	ug/l	98
16) Acetone	4.13	43	10846	27.74	ug/l	94
17) Carbon Disulfide	4.37	76	13359	2.03	ug/l #	95
18) Methyl Acetate	4.68	43	3690	2.13	ug/l	100
19) Methyl tert-butyl Ether	5.43	73	9862	1.93	ug/l	93
20) Methylene Chloride	4.91	84	10420	2.04	ug/l	97
21) trans-1,2-Dichloroethene	5.43	96	4624	2.00	ug/l	87
22) Diisopropyl ether	6.32	45	9559	1.72	ug/l #	95
23) Vinyl Acetate	6.26	43	14937m	4.33	ug/l	
24) 1,1-Dichloroethane	6.23	63	7647	2.06	ug/l	97
25) 2-Butanone	7.18	43	10277	9.88	ug/l	93
26) 2,2-Dichloropropane	7.17	77	9880	2.63	ug/l	86
27) cis-1,2-Dichloroethene	7.17	96	4376	1.83	ug/l	72
28) Bromochloromethane	7.51	49	2823	1.81	ug/l	93
29) Tetrahydrofuran	7.53	42	4963	8.67	ug/l	98
30) Chloroform	7.68	83	7833m	1.96	ug/l	
31) Cyclohexane	7.95	56	11842	3.09	ug/l #	68
32) 1,1,1-Trichloroethane	7.87	97	7791	2.01	ug/l	98
36) 1,1-Dichloropropene	8.08	75	6947	2.02	ug/l	97
37) Ethyl Acetate	7.26	43	3892	2.01	ug/l #	89
38) Carbon Tetrachloride	8.06	117	6588	1.74	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	7635	1.85	ug/l	97
40) Benzene	8.32	78	18249	1.95	ug/l	100
41) Methacrylonitrile	7.49	41	1773	1.63	ug/l #	87
42) 1,2-Dichloroethane	8.41	62	5631	1.96	ug/l	99
43) Isopropyl Acetate	8.43	43	5870	1.79	ug/l	96
44) Trichloroethene	9.09	130	5827	2.10	ug/l	81
45) 1,2-Dichloropropane	9.37	63	4363	2.00	ug/l	93
46) Dibromomethane	9.46	93	2366	1.70	ug/l	94
47) Bromodichloromethane	9.65	83	5298	1.72	ug/l	90
48) Methyl methacrylate	9.45	41	2540	1.61	ug/l #	86
49) 1,4-Dioxane	9.45	88	1058	34.78	ug/l #	86
51) 4-Methyl-2-Pentanone	10.22	43	15418	8.15	ug/l	97
52) Toluene	10.40	92	11541	1.96	ug/l	95
53) t-1,3-Dichloropropene	10.62	75	5299	1.70	ug/l	89
54) cis-1,3-Dichloropropene	10.08	75	5699	1.66	ug/l	99
55) 1,1,2-Trichloroethane	10.80	97	3891	2.00	ug/l #	88
56) Ethyl methacrylate	10.66	69	3695	4.57	ug/l #	89
57) 1,3-Dichloropropane	10.94	76	5824	1.83	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.93	63	5271	29.04	ug/l	99
59) 2-Hexanone	10.98	43	10940	20.87	ug/l	92
60) Dibromochloromethane	11.13	129	4050	1.73	ug/l	94
61) 1,2-Dibromoethane	11.24	107	3570	1.76	ug/l	97
64) Tetrachloroethene	10.87	164	5968	2.23	ug/l	97
65) Chlorobenzene	11.67	112	13078	1.98	ug/l	90
66) 1,1,1,2-Tetrachloroethane	11.74	131	4491	1.89	ug/l #	64
67) Ethyl Benzene	11.74	91	20403	1.82	ug/l	97
68) m/p-Xylenes	11.85	106	14839	3.41	ug/l	98
69) o-Xylene	12.18	106	6698	1.68	ug/l	99
70) Styrene	12.19	104	10335	1.59	ug/l	96
71) Bromoform	12.37	173	2714	1.68	ug/l #	94
73) Isopropylbenzene	12.48	105	18884	1.72	ug/l	99
74) N-amyl acetate	12.29	43	4165	1.56	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.73	83	4181	1.78	ug/l	97
76) 1,2,3-Trichloropropane	12.78	75	3562m	1.81	ug/l	
77) Bromobenzene	12.76	156	5510	1.97	ug/l	97
78) n-propylbenzene	12.82	91	24917	1.88	ug/l	99
79) 2-Chlorotoluene	12.91	91	14238	1.90	ug/l	99
80) 1,3,5-Trimethylbenzene	12.96	105	16157	1.73	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.52	75	861m	5.53	ug/l	
82) 4-Chlorotoluene	13.01	91	15145	1.91	ug/l	98
83) tert-Butylbenzene	13.23	119	14186	1.73	ug/l	97
84) 1,2,4-Trimethylbenzene	13.27	105	15305	1.62	ug/l	96
85) sec-Butylbenzene	13.40	105	20265	1.72	ug/l	98
86) p-Isopropyltoluene	13.52	119	16782	1.60	ug/l	94
87) 1,3-Dichlorobenzene	13.51	146	10980	1.98	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	11277	2.03	ug/l	79
89) n-Butylbenzene	13.84	91	18603	1.89	ug/l	94
90) Hexachloroethane	14.11	117	3901	2.00	ug/l	100
91) 1,2-Dichlorobenzene	13.89	146	9857	1.97	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.51	75	1018	1.96	ug/l	92

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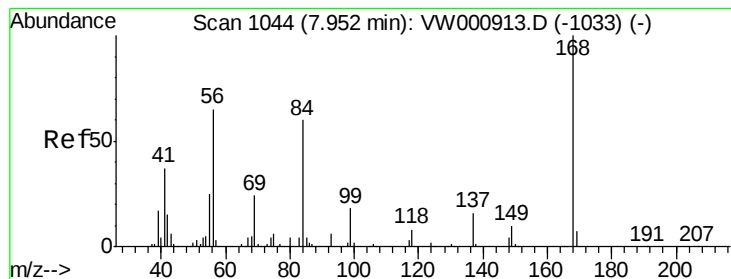
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.16	180	7687	2.07	ug/l	97
94) Hexachlorobutadiene	15.26	225	4700	1.99	ug/l	96
95) Naphthalene	15.39	128	13600	1.73	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.58	180	6643	1.94	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

Tot Ion:168 Resp: 245378

Ion Ratio Lower Upper

168 100

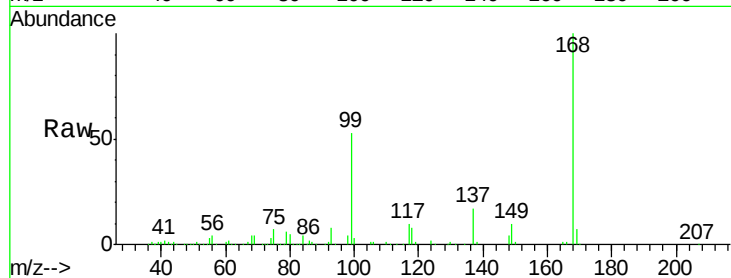
99 53.2 40.6 61.0

Manual Integrations

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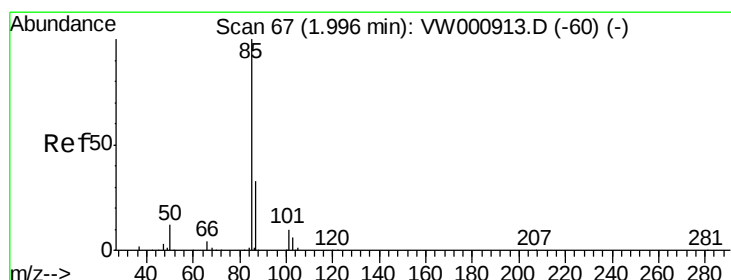
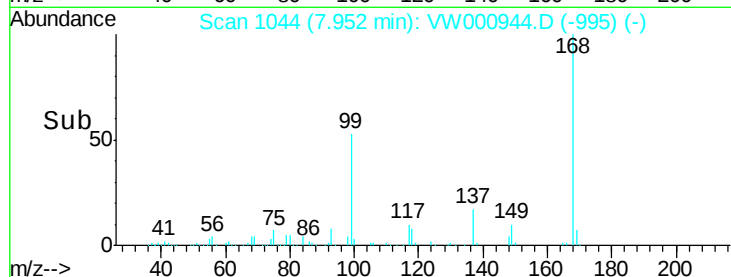
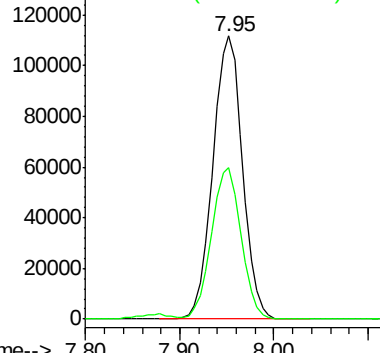
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 2.31 ug/l

RT: 2.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VW000944.D

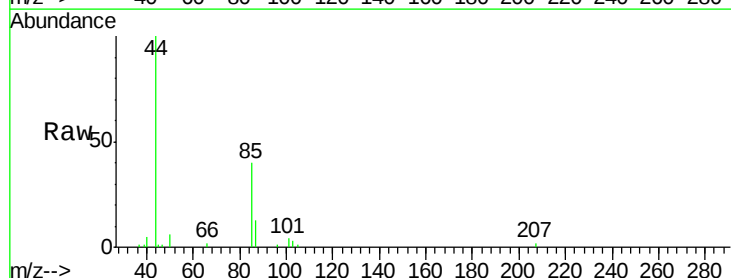
Acq: 24 Jan 2018 13:10

Tgt Ion: 85 Resp: 5469

Ion Ratio Lower Upper

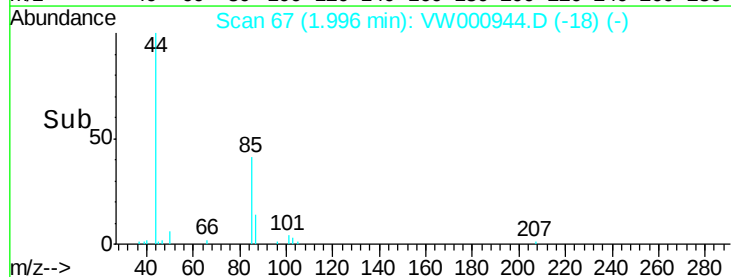
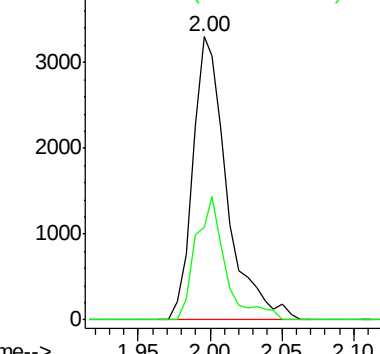
85 100

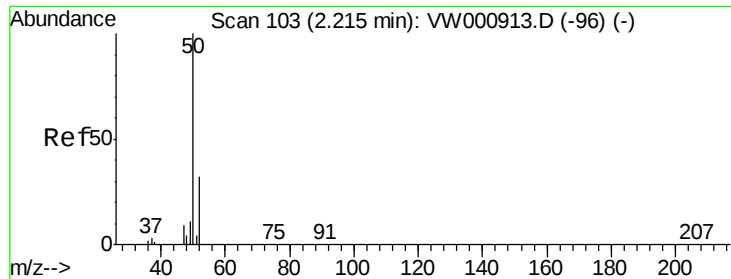
87 32.9 16.6 49.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 2.30 ug/l

RT: 2.22 min Scan# 103

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

Tot Ion: 50 Resp: 4801

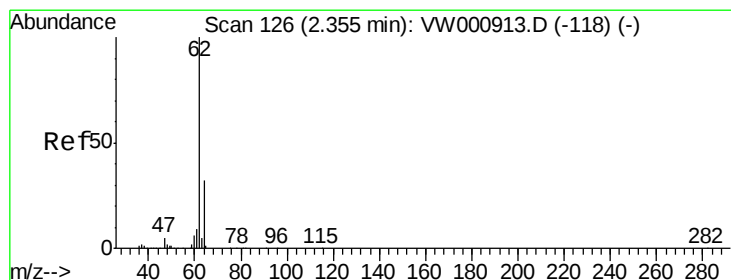
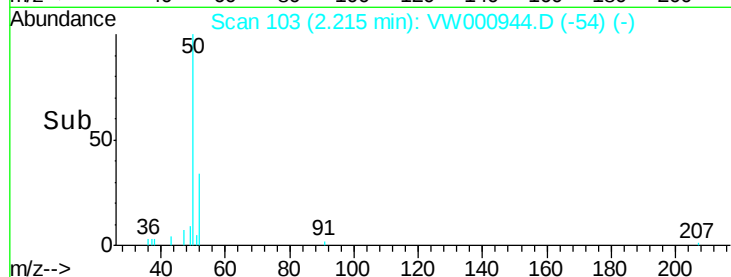
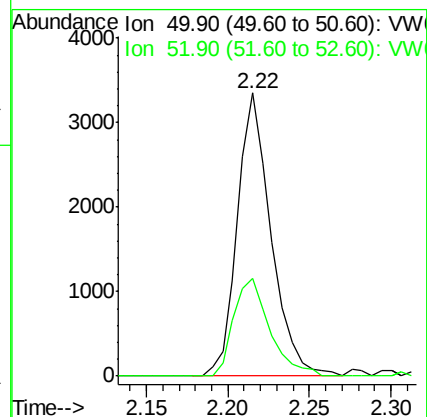
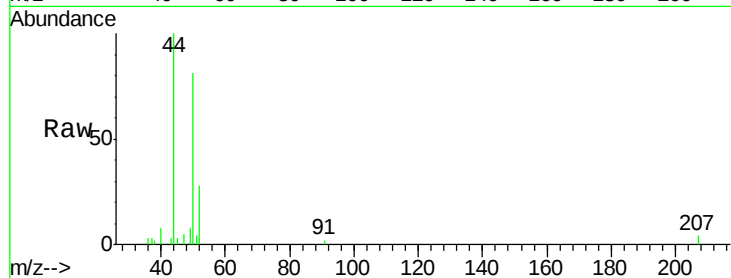
Ion Ratio Lower Upper

50 100

52 34.4 25.5 38.3

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#4

Vinyl Chloride

Concen: 2.08 ug/l

RT: 2.36 min Scan# 126

Delta R.T. 0.00 min

Lab File: VW000944.D

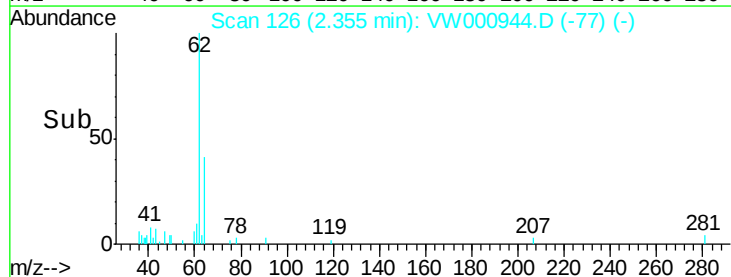
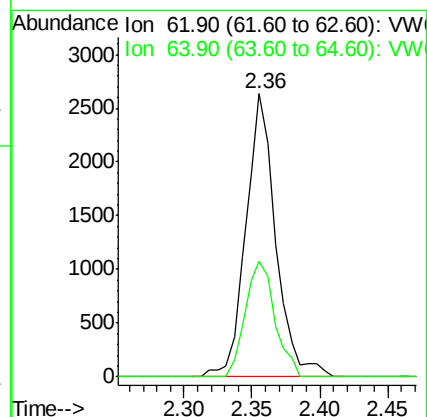
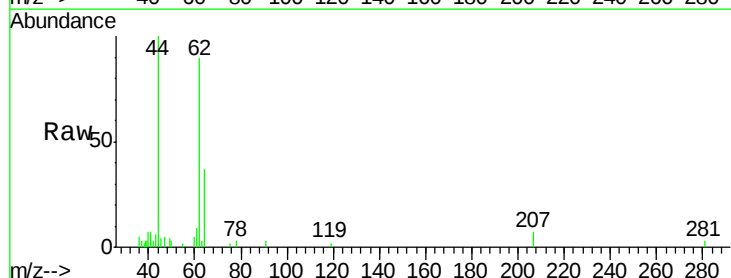
Acq: 24 Jan 2018 13:10

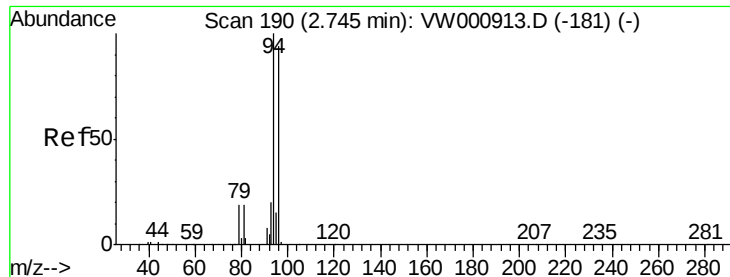
Tgt Ion: 62 Resp: 4041

Ion Ratio Lower Upper

62 100

64 40.7 25.6 38.4#





#5

Bromomethane

Concen: 2.74 ug/l

RT: 2.76 min Scan# 192

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

Tot Ion: 94 Resp: 3648

Ion Ratio Lower Upper

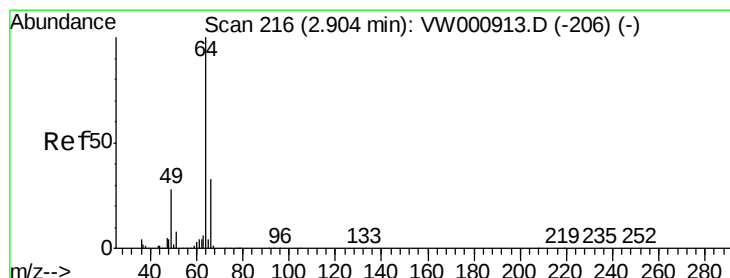
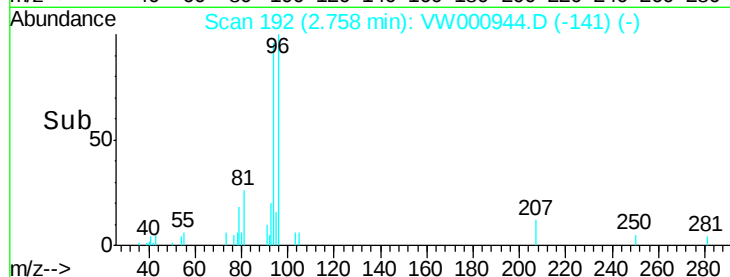
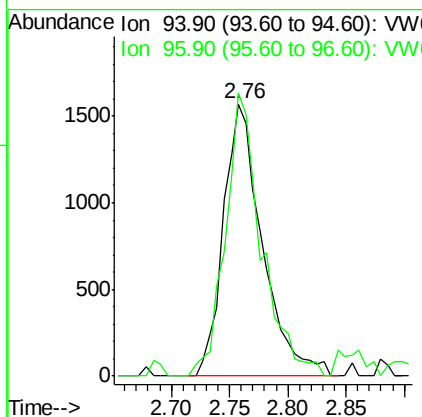
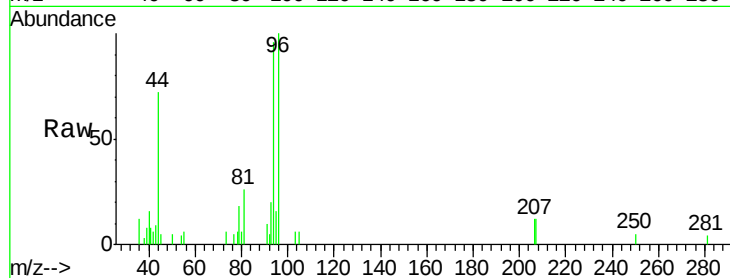
94 100

96 104.1 75.5 113.3

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#6

Chloroethane

Concen: 2.16 ug/l

RT: 2.91 min Scan# 217

Delta R.T. 0.01 min

Lab File: VW000944.D

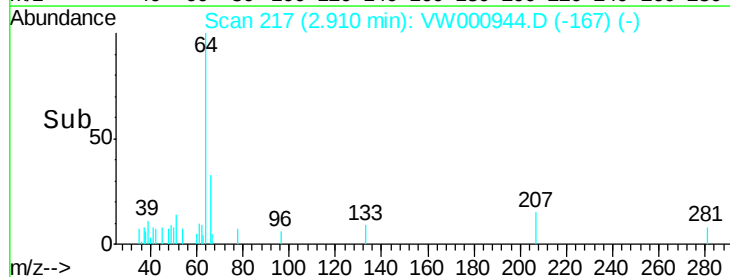
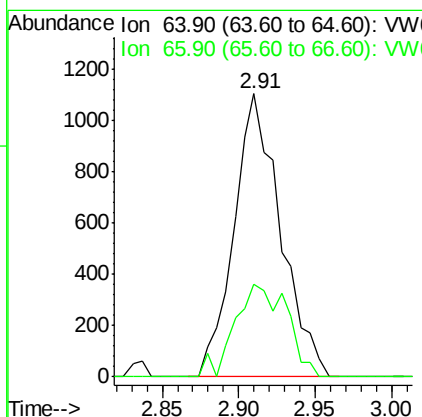
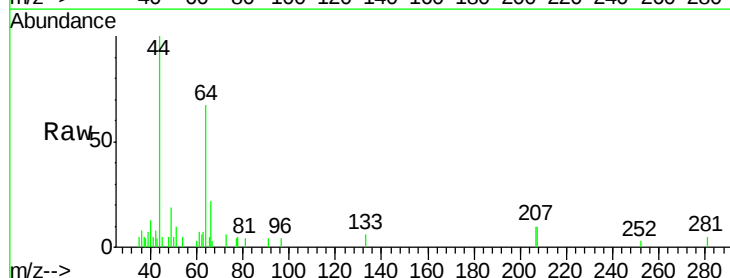
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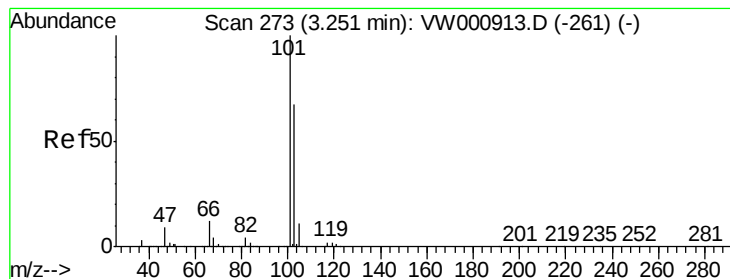
Tgt Ion: 64 Resp: 2332

Ion Ratio Lower Upper

64 100

66 32.5 26.1 39.1





#7

Trichlorofluoromethane

Concen: 2.05 ug/l

RT: 3.26 min Scan# 274

Delta R.T. 0.01 min

Lab File: VW000944.D

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Tot Ion:101 Resp: 7344

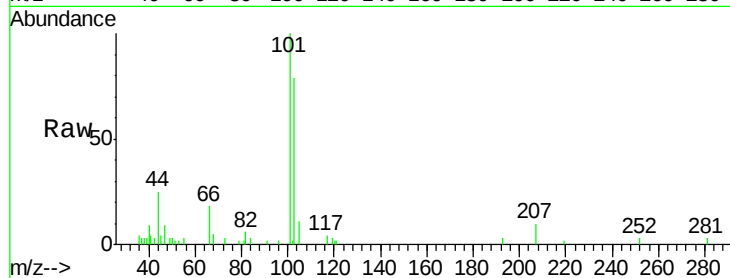
Ion Ratio Lower Upper

101 100

103 79.1 53.4 80.0

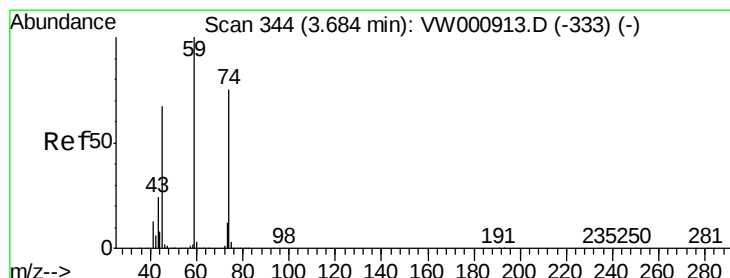
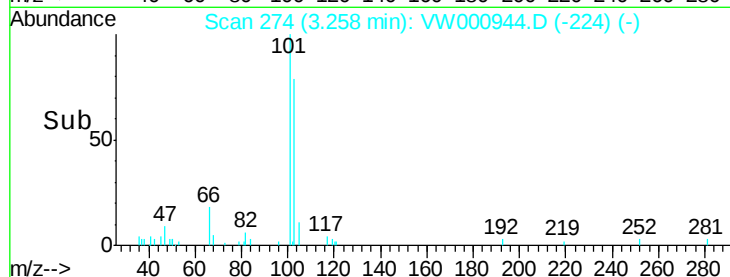
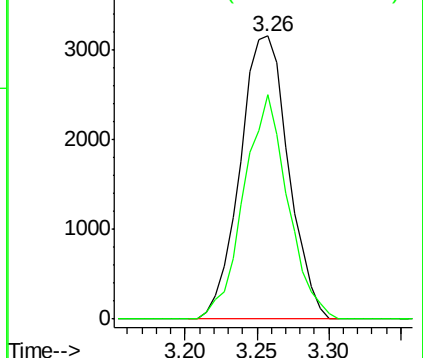
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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 2.20 ug/l

RT: 3.67 min Scan# 342

Delta R.T. -0.01 min

Lab File: VW000944.D

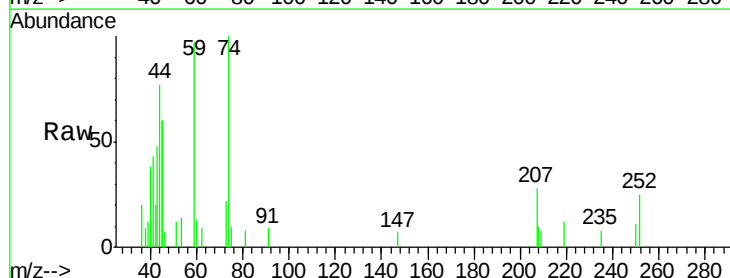
Acq: 24 Jan 2018 13:10

Tgt Ion: 74 Resp: 1973

Ion Ratio Lower Upper

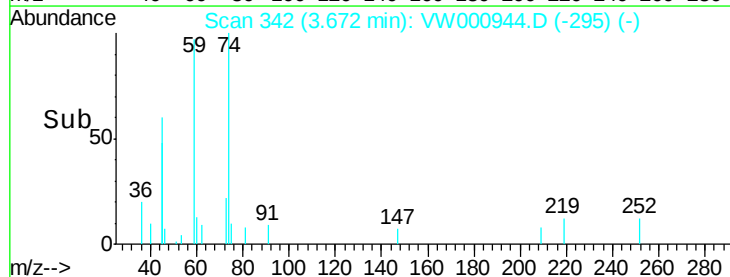
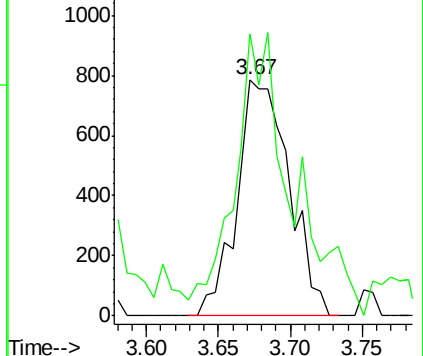
74 100

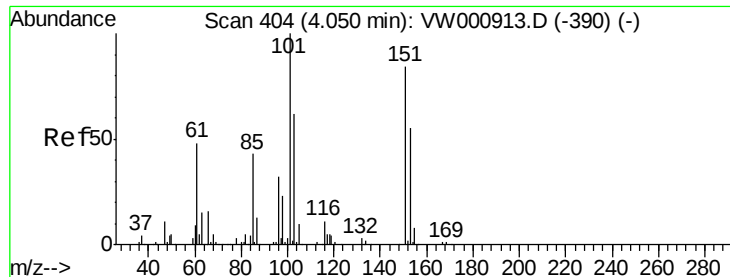
45 132.7 44.7 134.1



Abundance Ion 74.00 (73.70 to 74.70): VW

Ion 45.00 (44.70 to 45.70): VW





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.39 ug/l

RT: 4.04 min Scan# 403

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

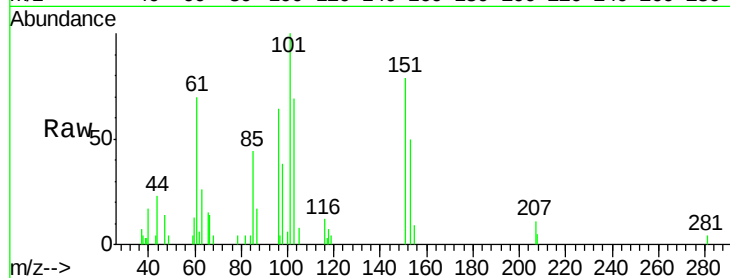
ClientSampleId :

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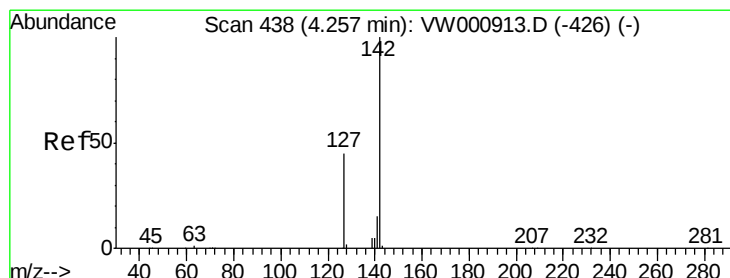
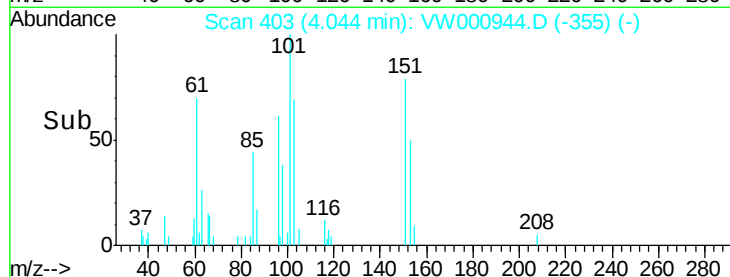
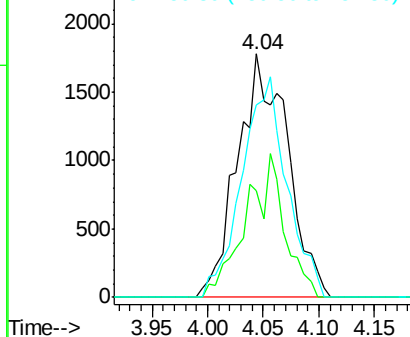
Tot Ion:	101	Resp:	5525
Ion Ratio	Lower	Upper	
101	100		
85	46.1	35.3	52.9
151	82.0	69.9	104.9

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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: 6.24 ug/l

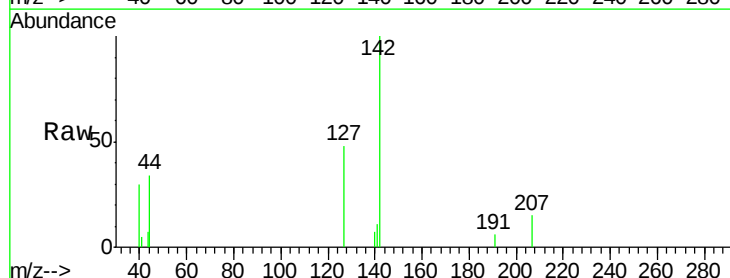
RT: 4.27 min Scan# 440

Delta R.T. 0.01 min

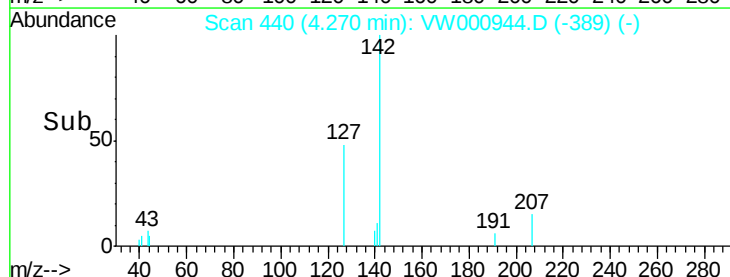
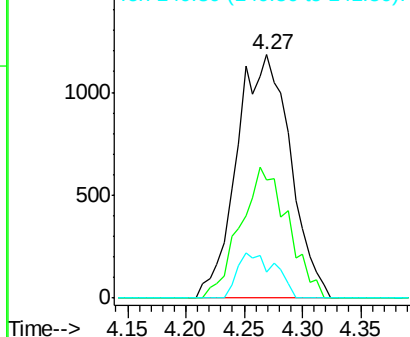
Lab File: VW000944.D

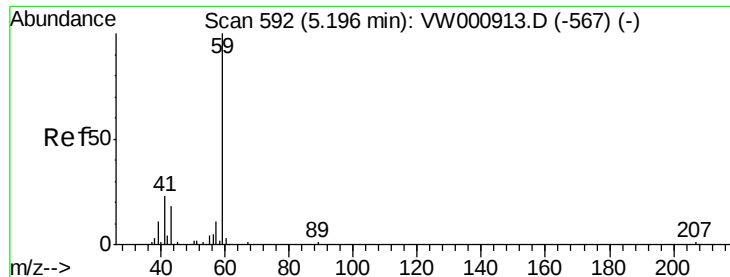
Acq: 24 Jan 2018 13:10

Tgt Ion:	142	Resp:	3770
Ion Ratio	Lower	Upper	
142	100		
127	48.1	35.5	53.3
141	13.2	11.7	17.5



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

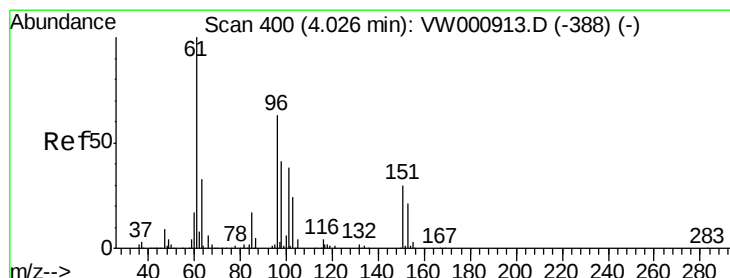
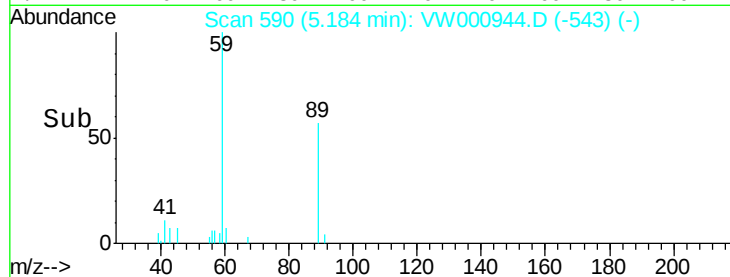
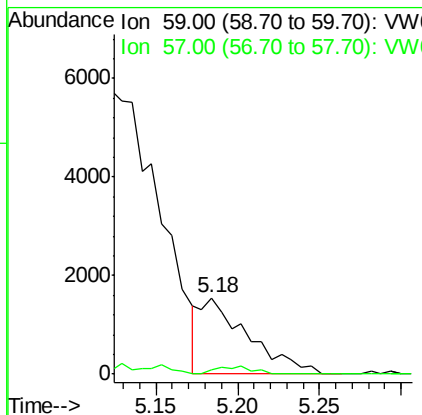
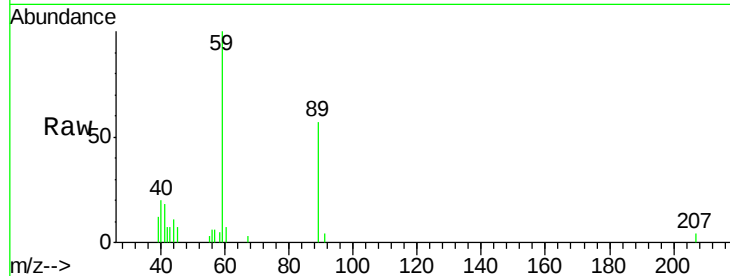
Tert butyl alcohol
 Concen: 12.41 ug/l m
 RT: 5.18 min Scan# 590
 Delta R.T. -0.01 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2018

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.7	7.0	10.6

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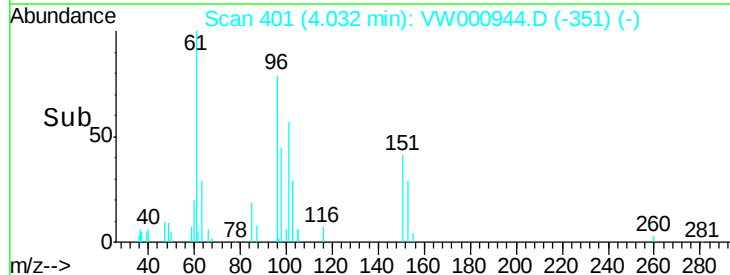
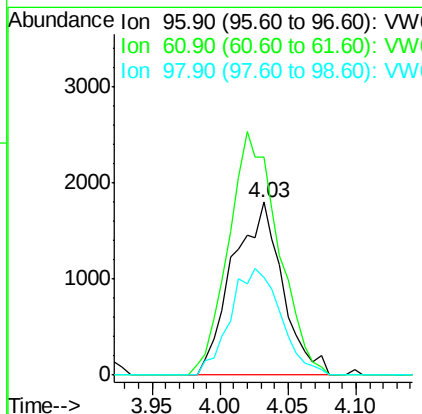
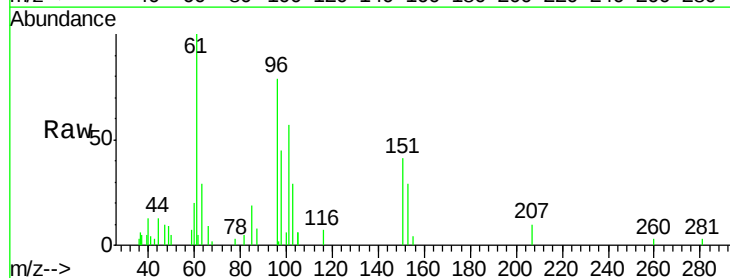
MMDadoda
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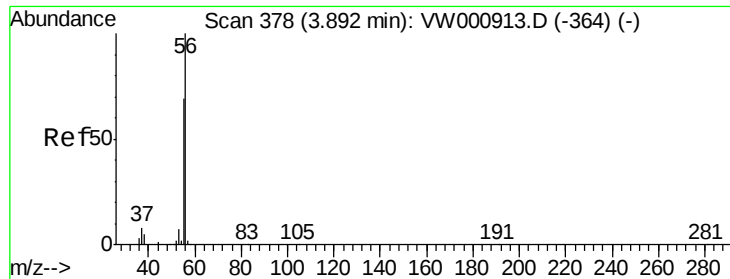


#12

1,1-Dichloroethene
 Concen: 2.32 ug/l
 RT: 4.03 min Scan# 401
 Delta R.T. 0.01 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Lower	Upper
96	100		
61	125.8	126.7	190.1#
98	56.5	52.1	78.1





#13

Acrolein

Concen: 8.66 ug/l

RT: 3.90 min Scan# 379

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

Tot Ion: 56 Resp: 2156

Ion Ratio Lower Upper

56 100

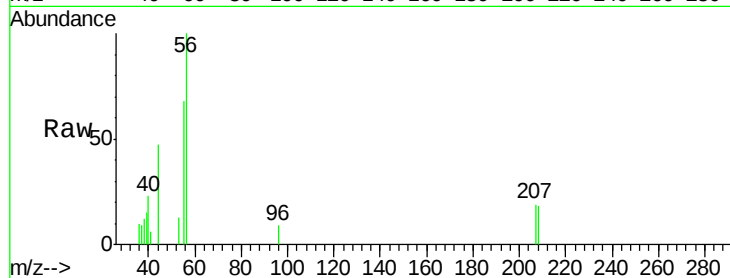
55 70.2 55.4 83.0

Manual Integrations

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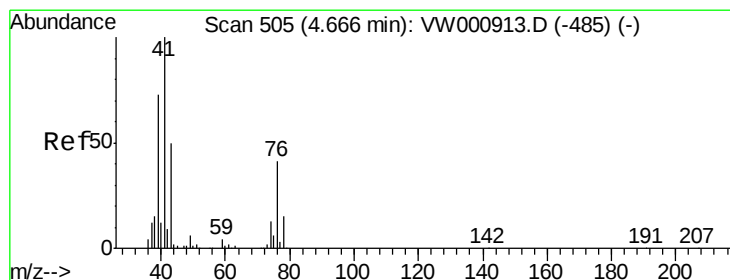
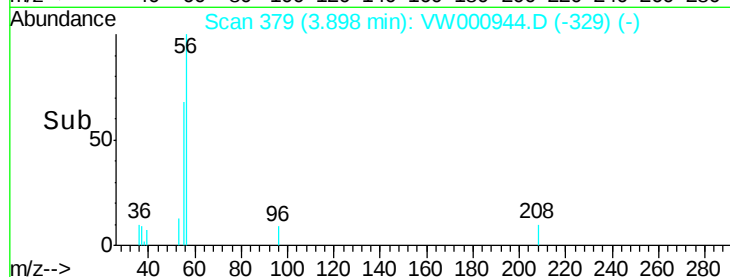
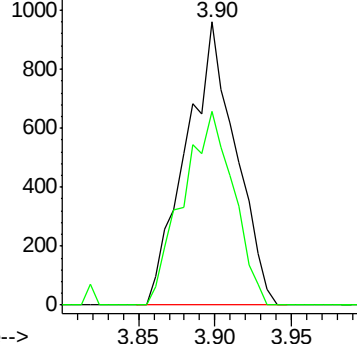
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Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#14

Allyl chloride

Concen: 2.01 ug/l

RT: 4.66 min Scan# 504

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

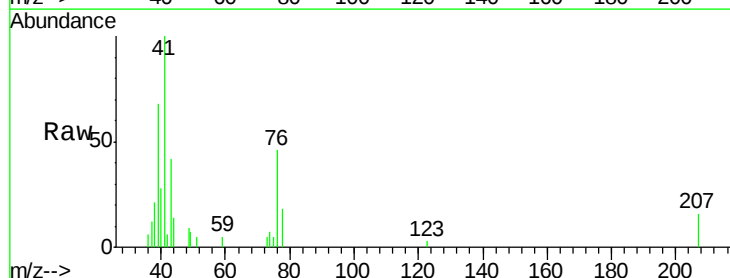
Tgt Ion: 41 Resp: 6214

Ion Ratio Lower Upper

41 100

39 74.3 55.3 82.9

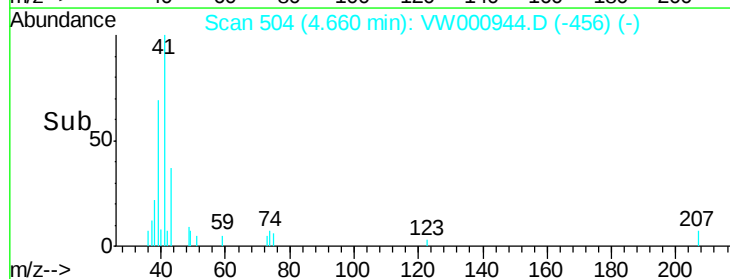
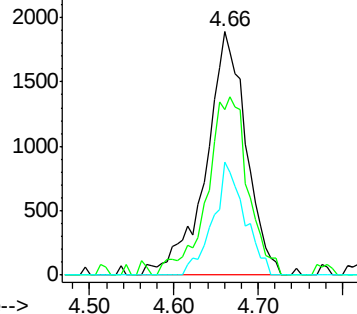
76 36.2 29.9 44.9

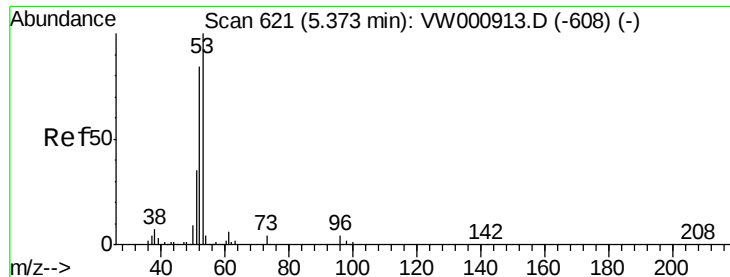


Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW





#15

Acrylonitrile

Concen: 9.73 ug/l

RT: 5.38 min Scan# 622

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

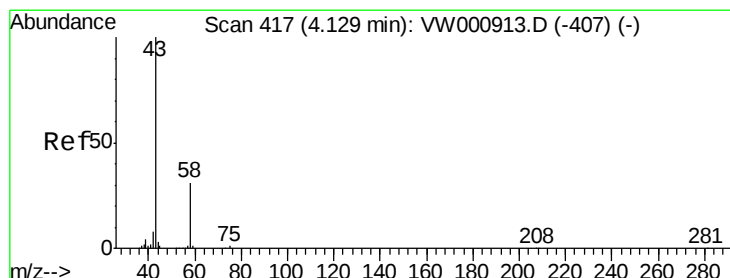
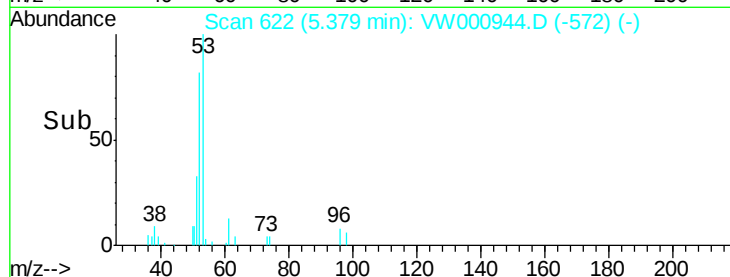
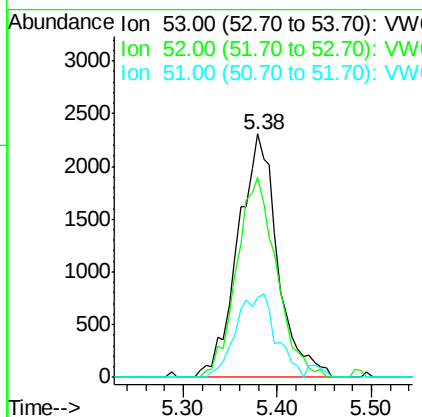
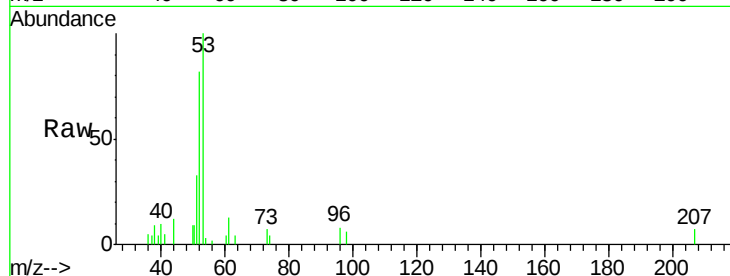
ClientSampleId :

MDL-SOIL-03-QT1-2018

Tot Ion:	53	Resp:	6815
Ion	Ratio	Lower	Upper
53	100		
52	82.5	66.6	99.8
51	34.4	29.4	44.0

Manual Integrations
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#16

Acetone

Concen: 27.74 ug/l

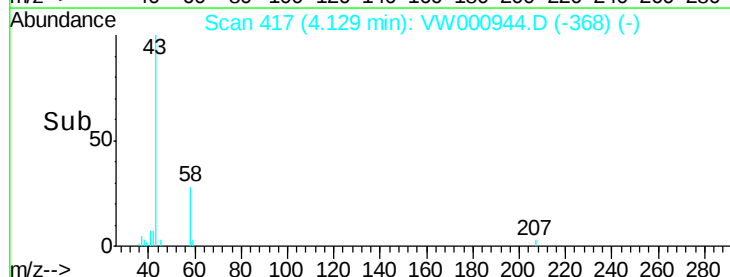
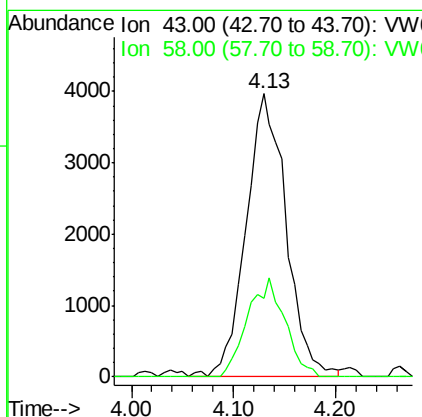
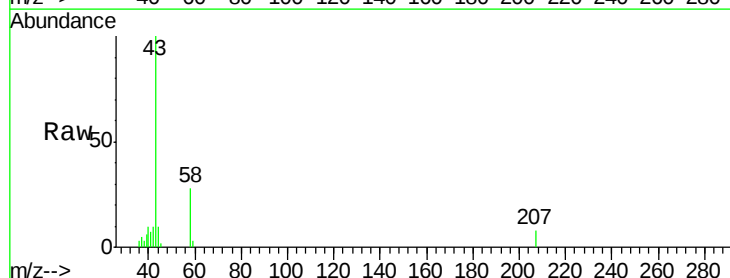
RT: 4.13 min Scan# 417

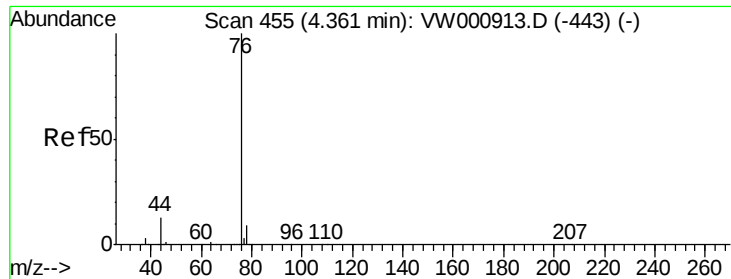
Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Tgt Ion:	43	Resp:	10846
Ion	Ratio	Lower	Upper
43	100		
58	27.8	24.9	37.3





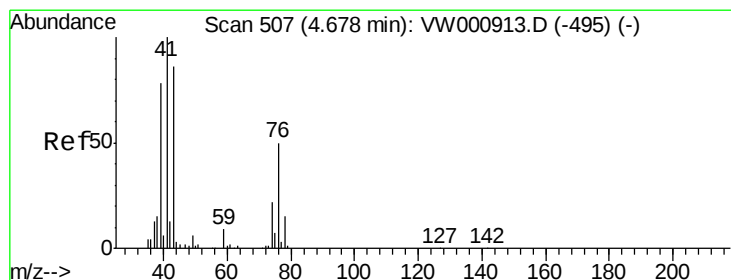
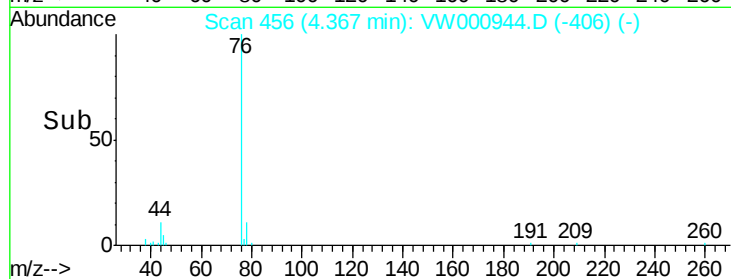
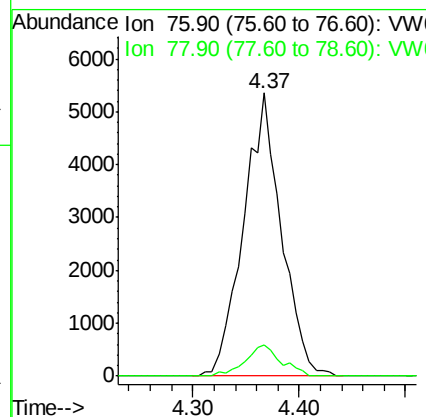
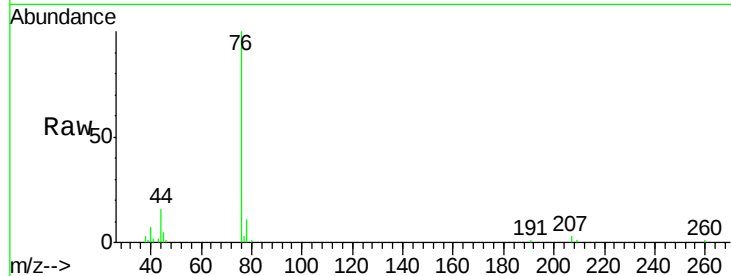
#17
Carbon Disulfide
Concen: 2.03 ug/l
RT: 4.37 min Scan# 456
Delta R.T. 0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tot Ion	Ratio	Lower	Upper
76	100		
78	11.2	7.4	11.2#

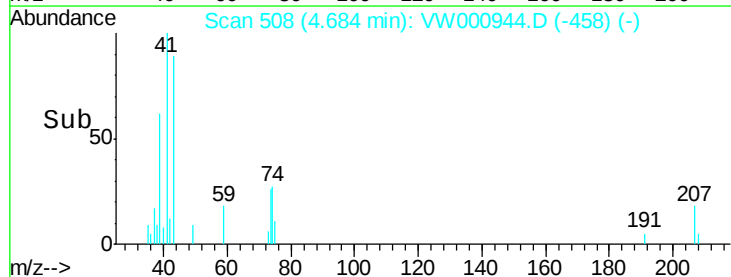
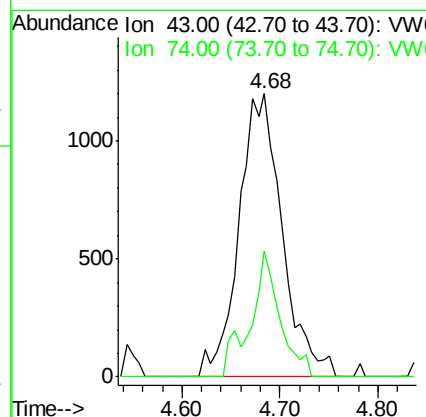
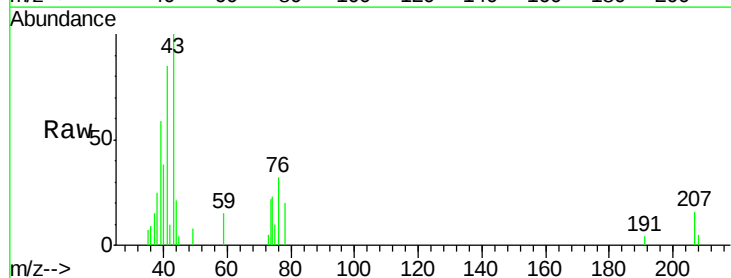
Manual Integrations
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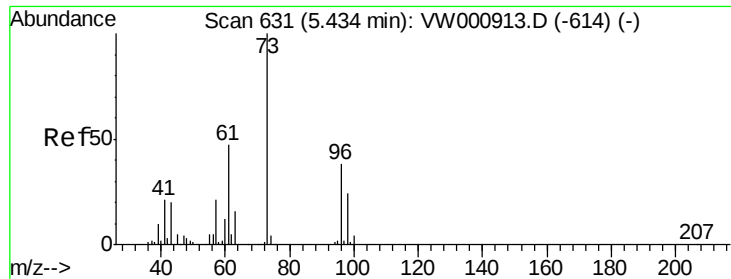
MMDadoda
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#18
Methyl Acetate
Concen: 2.13 ug/l
RT: 4.68 min Scan# 508
Delta R.T. 0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.8	20.5	30.7





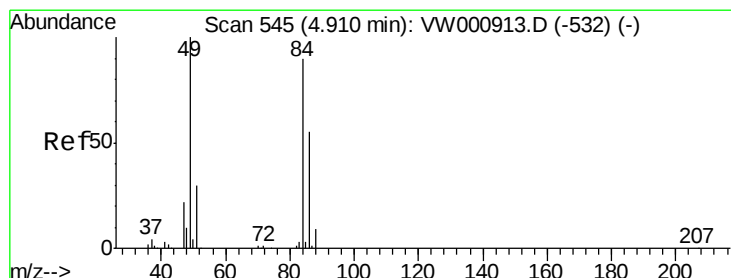
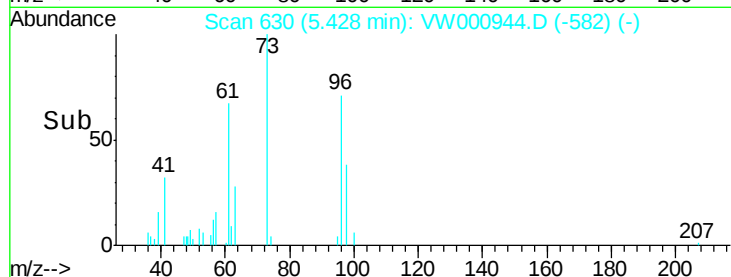
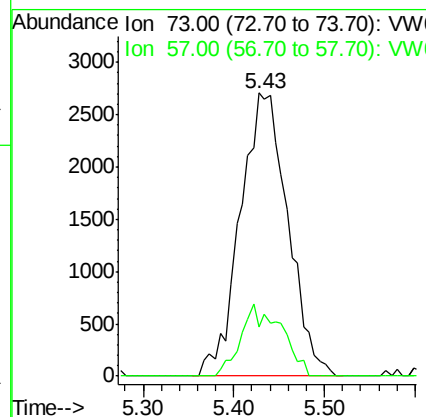
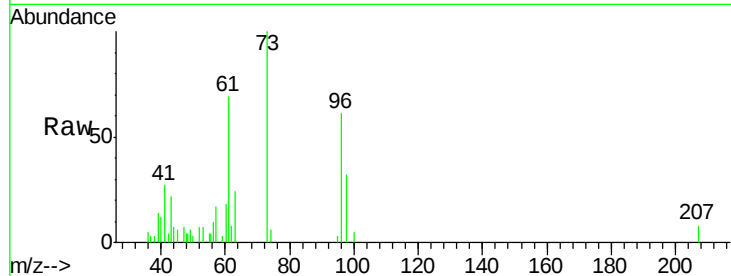
#19
Methvl tert-butvl Ether
Concen: 1.93 ug/l
RT: 5.43 min Scan# 630
Delta R.T. -0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tot Ion: 73 Resp: 9862
Ion Ratio Lower Upper
73 100
57 17.4 16.7 25.1

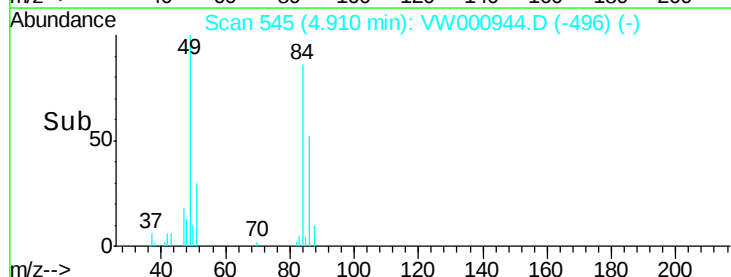
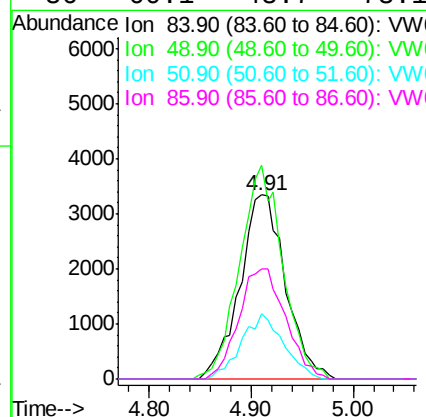
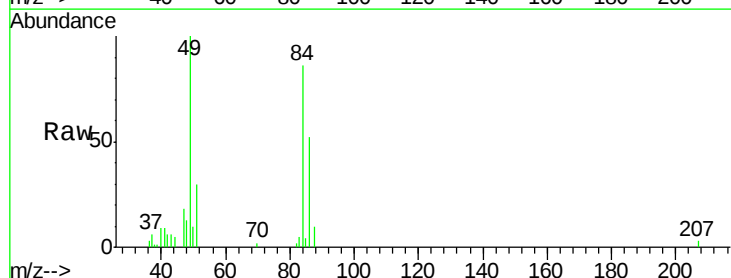
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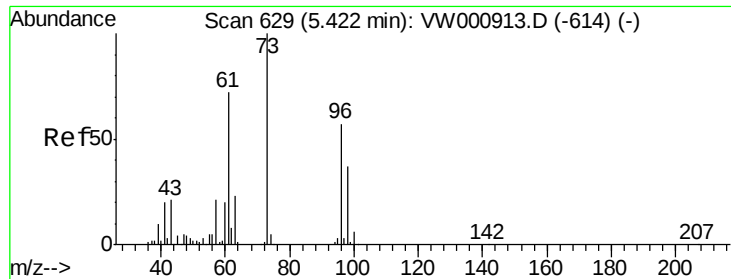
MMDadoda
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#20
Methylene Chloride
Concen: 2.04 ug/l
RT: 4.91 min Scan# 545
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion: 84 Resp: 10420
Ion Ratio Lower Upper
84 100
49 116.2 89.0 133.4
51 35.2 26.7 40.1
86 60.1 48.7 73.1





#21

trans-1,2-Dichloroethene

Concen: 2.00 ug/l

RT: 5.43 min Scan# 630

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

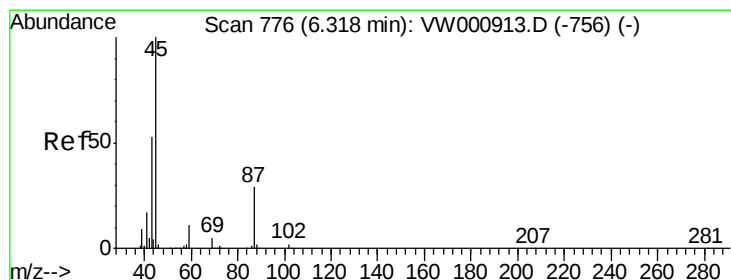
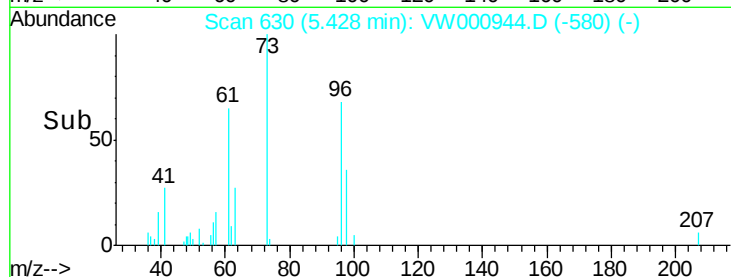
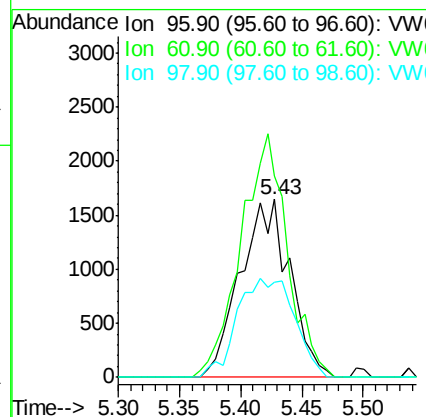
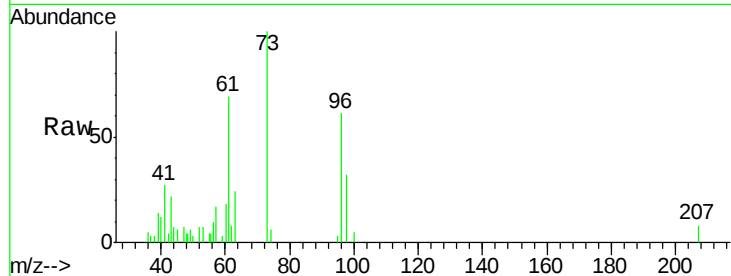
ClientSampleId :

MDL-SOIL-03-QT1-2018

Tot Ion:	96	Resp:	4624
Ion	Ratio	Lower	Upper
96	100		
61	113.4	101.1	151.7
98	53.4	52.2	78.2

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#22

Diisopropyl ether

Concen: 1.72 ug/l

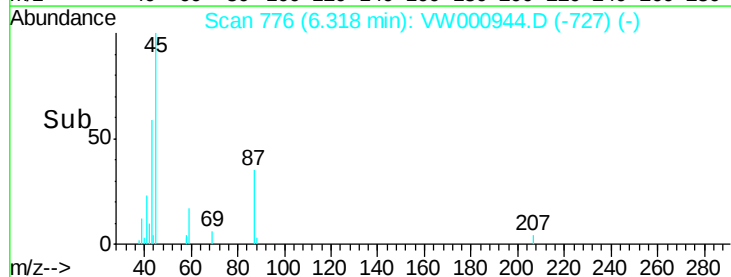
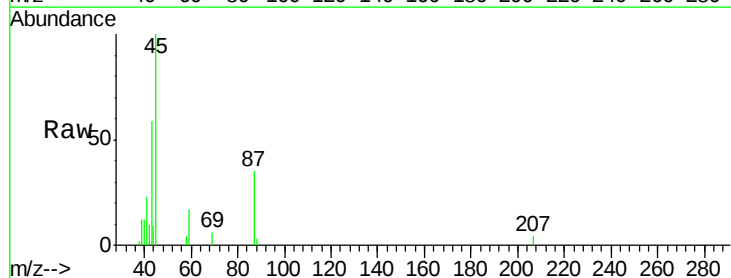
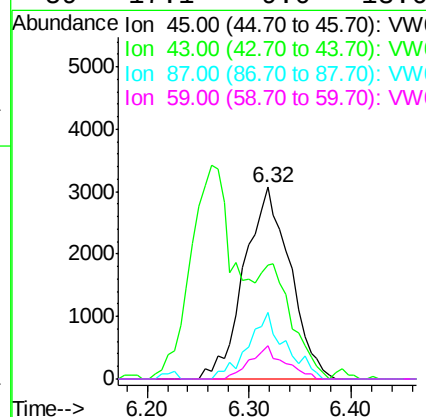
RT: 6.32 min Scan# 776

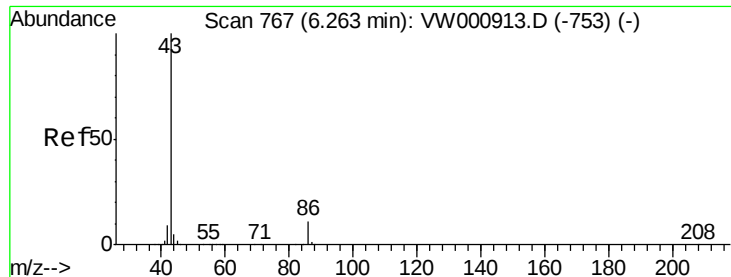
Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Tgt Ion:	45	Resp:	9559
Ion	Ratio	Lower	Upper
45	100		
43	54.0	42.7	64.1
87	35.0	23.8	35.8
59	17.1	9.0	13.6#





#23

Vinyl Acetate

Concen: 4.33 ug/l m

RT: 6.26 min Scan# 767

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

Tot Ion: 43 Resp: 14937

Ion Ratio Lower Upper

43 100

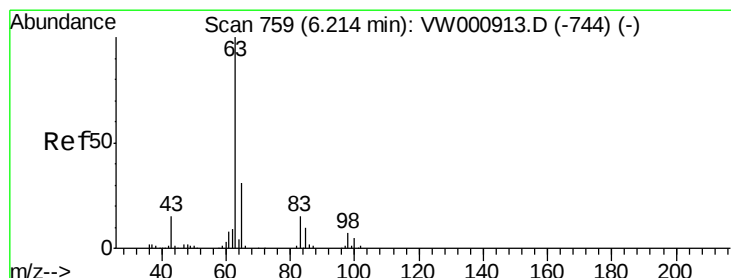
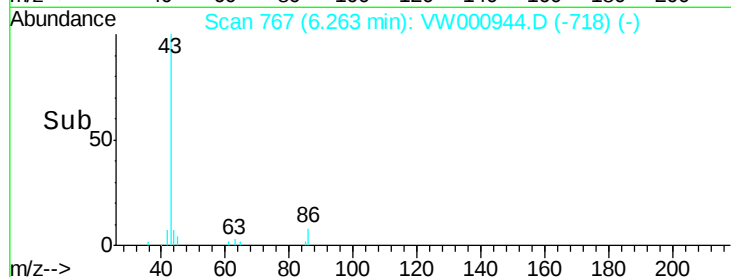
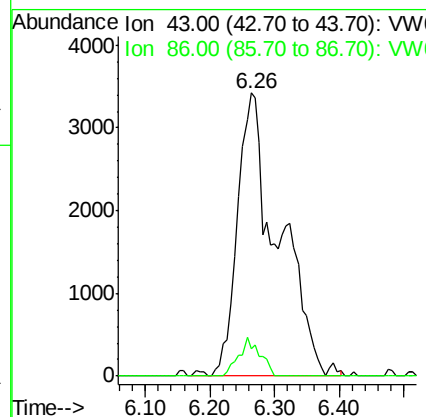
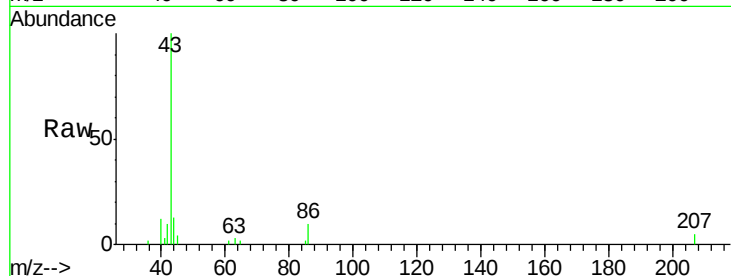
86 9.8 9.1 13.7

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 2.06 ug/l

RT: 6.23 min Scan# 761

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

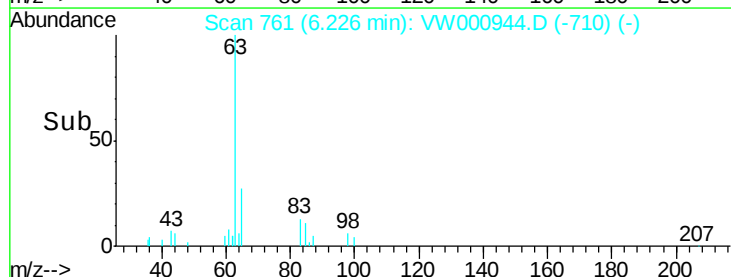
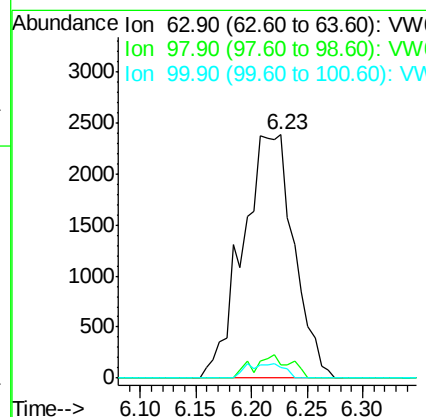
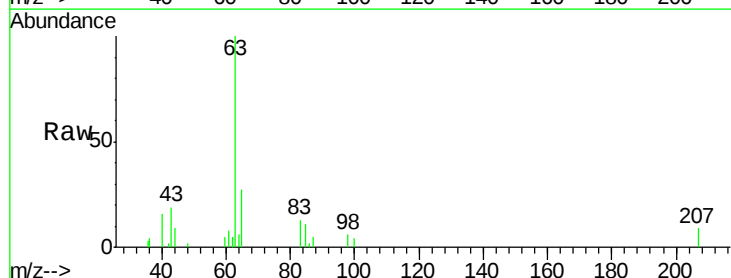
Tgt Ion: 63 Resp: 7647

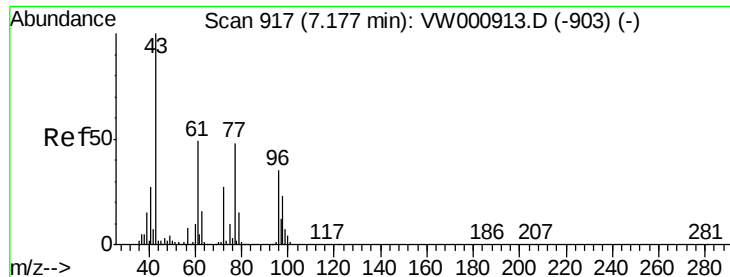
Ion Ratio Lower Upper

63 100

98 5.7 3.6 10.8

100 4.4 2.5 7.4





#25

2-Butanone

Concen: 9.88 ug/l

RT: 7.18 min Scan# 918

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

Tot Ion: 43 Resp: 10277

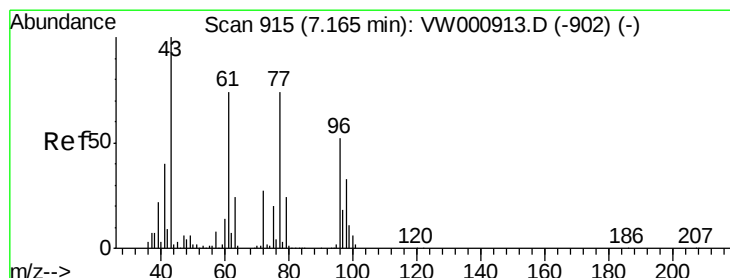
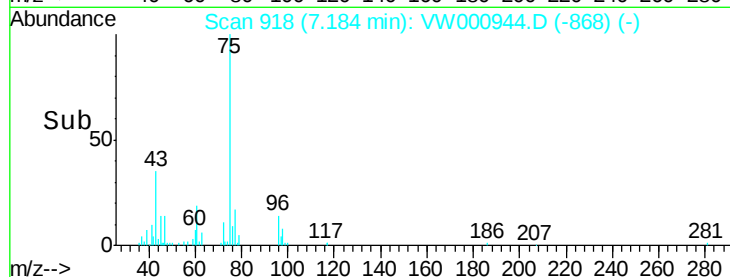
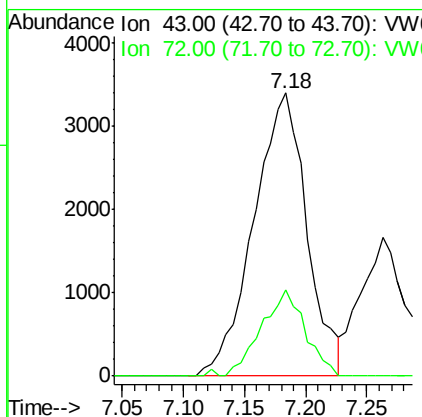
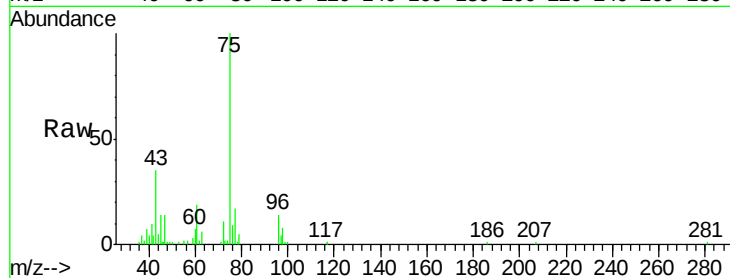
Ion Ratio Lower Upper

43 100

72 30.4 21.5 32.3

Manual Integrations
APPROVED

MMDadoda
1/25/2018 1:33:56 PM



#26

2,2-Dichloropropane

Concen: 2.63 ug/l

RT: 7.17 min Scan# 915

Delta R.T. 0.00 min

Lab File: VW000944.D

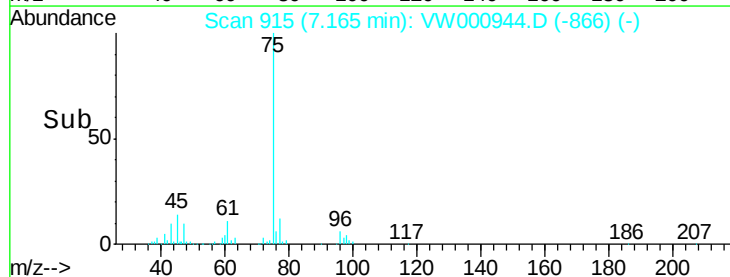
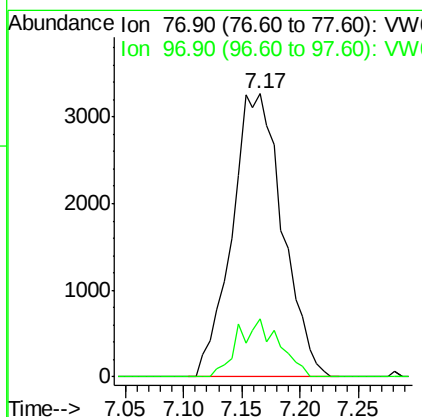
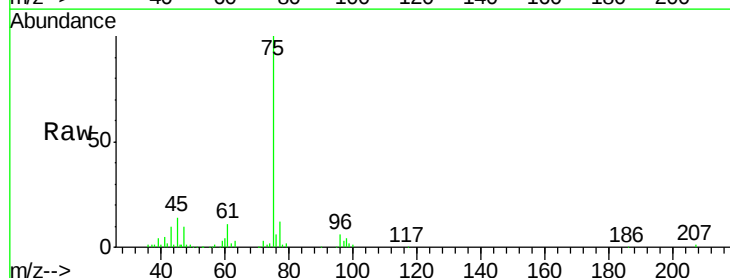
Acq: 24 Jan 2018 13:10

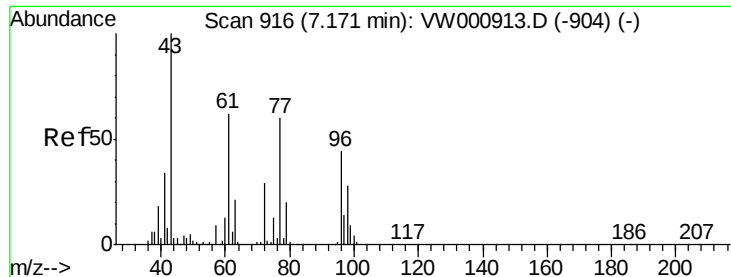
Tgt Ion: 77 Resp: 9880

Ion Ratio Lower Upper

77 100

97 16.7 11.8 35.3





#27

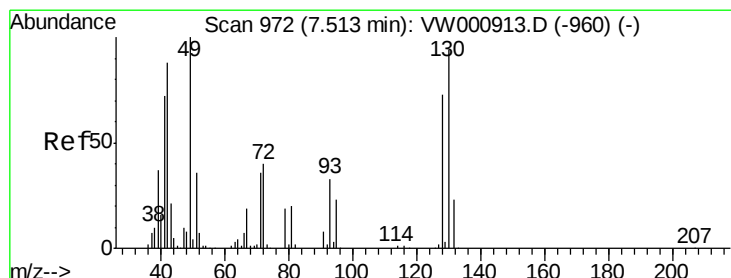
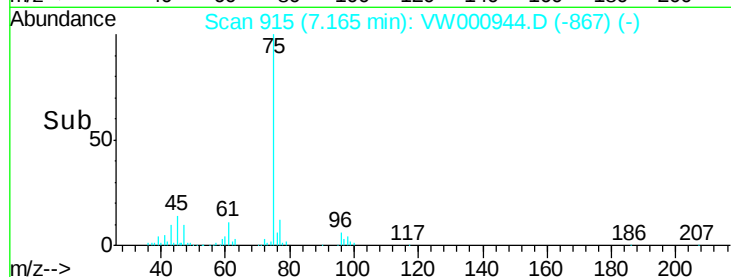
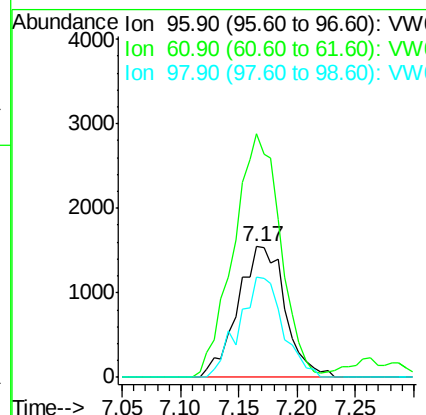
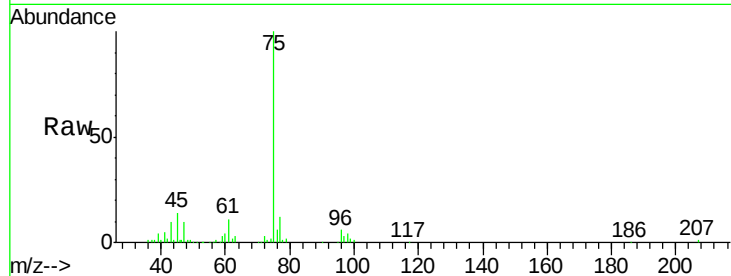
cis-1,2-Dichloroethene
Concen: 1.83 ug/l
RT: 7.17 min Scan# 915
Delta R.T. -0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tot Ion	Ratio	Lower	Upper
96	100		
61	184.6	0.0	279.8
98	70.5	0.0	127.6

Manual Integrations
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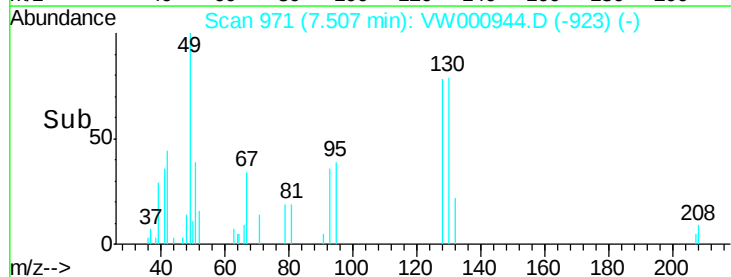
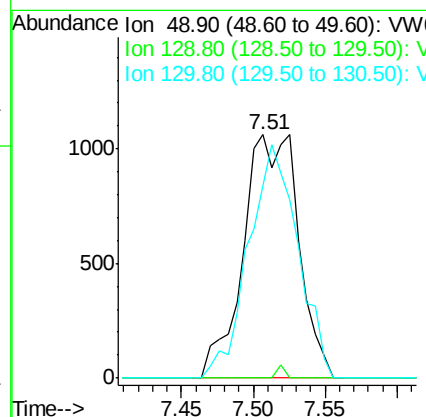
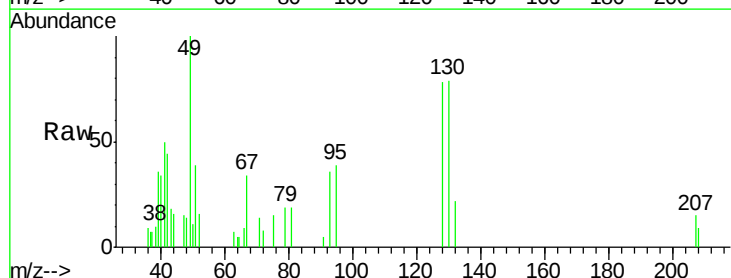
MMDadoda
1/25/2018 1:33:56 PM

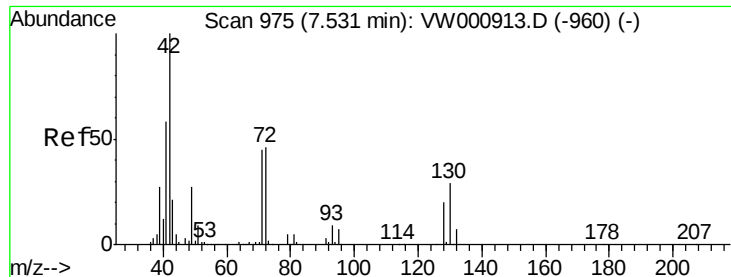


#28

Bromochloromethane
Concen: 1.81 ug/l
RT: 7.51 min Scan# 971
Delta R.T. -0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.7	0.0	2.8
130	85.5	73.8	110.6





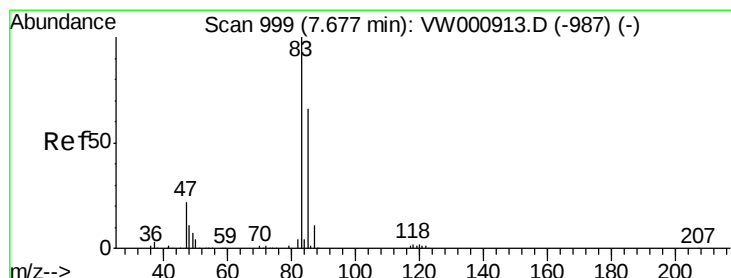
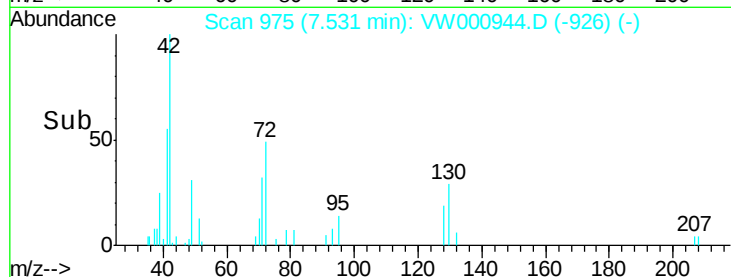
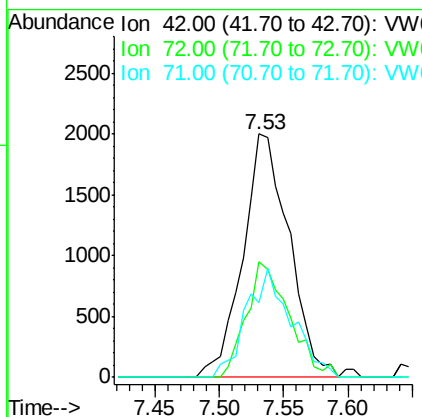
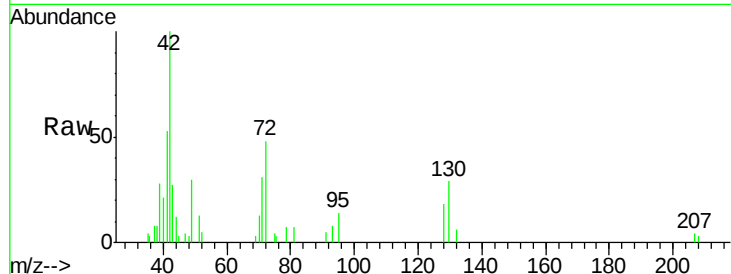
#29
Tetrahydrofuran
Concen: 8.67 ug/l
RT: 7.53 min Scan# 975
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.8	37.1	55.7
71	43.8	34.9	52.3

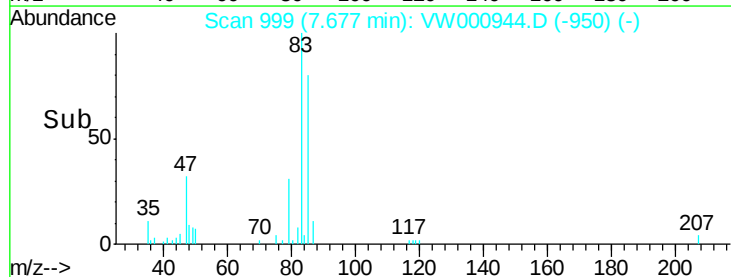
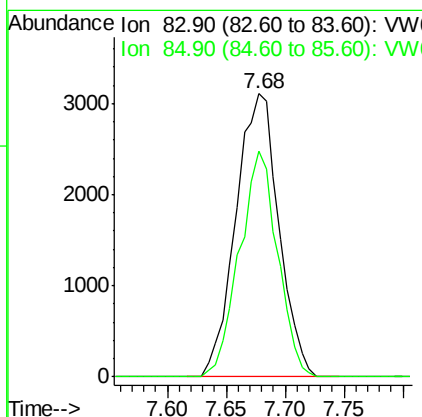
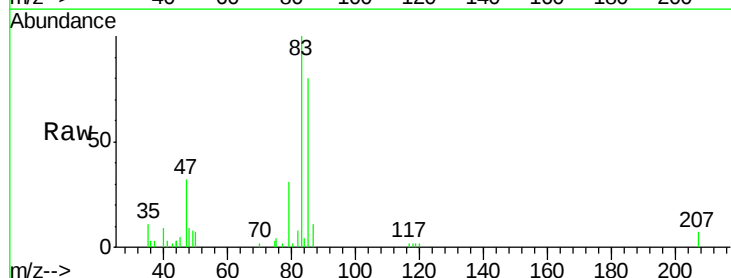
Manual Integrations
APPROVED

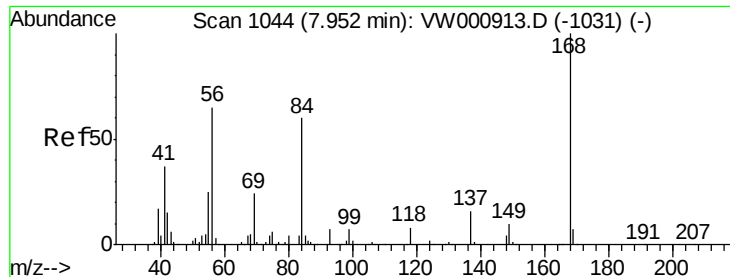
MMDadoda
1/25/2018 1:33:56 PM



#30
Chloroform
Concen: 1.96 ug/l m
RT: 7.68 min Scan# 999
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Lower	Upper
83	100		
85	79.7	52.5	78.7#





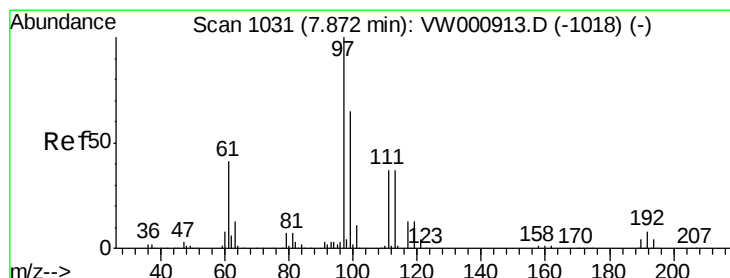
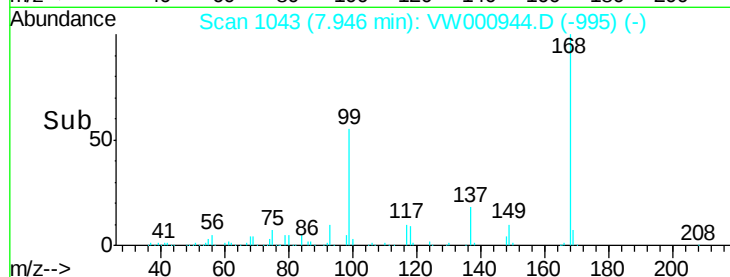
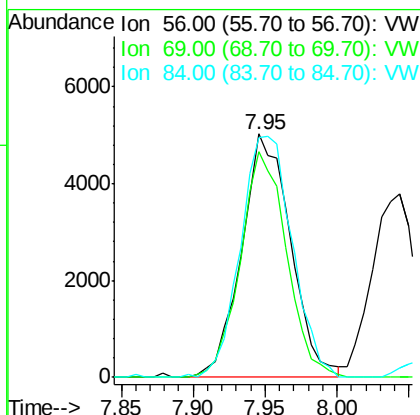
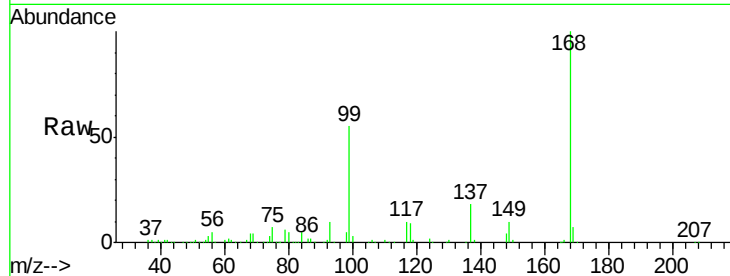
#31
Cyclohexane
Concen: 3.09 ug/l
RT: 7.95 min Scan# 1043
Delta R.T. -0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tot Ion: 56 Resp: 11842
Ion Ratio Lower Upper
56 100
69 92.8 29.2 43.8#
84 98.4 73.6 110.4

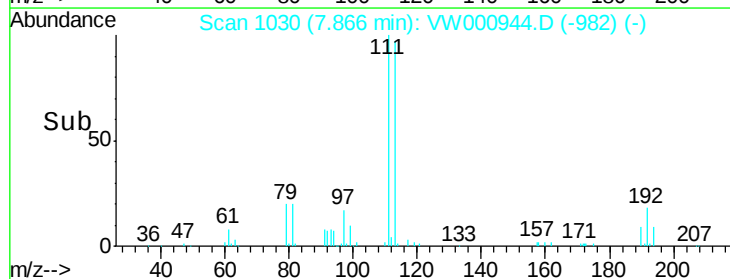
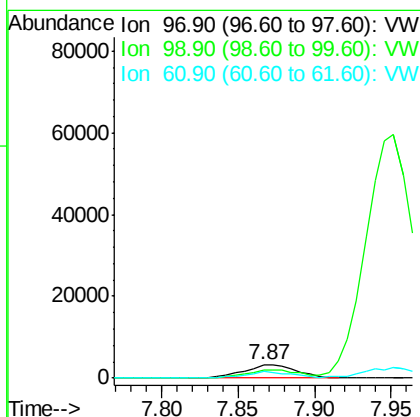
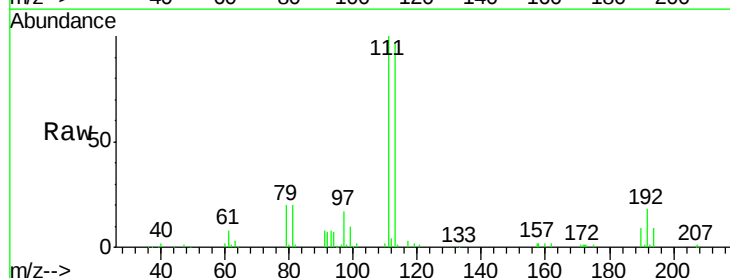
Manual Integrations
APPROVED

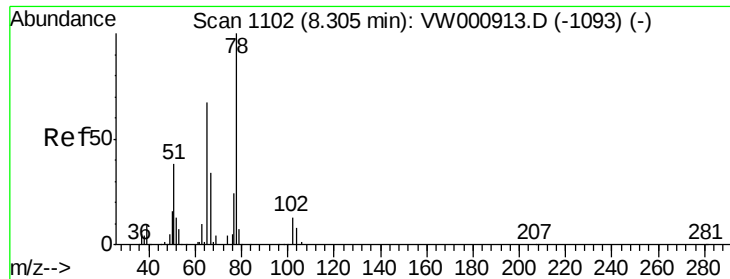
MMDadoda
1/25/2018 1:33:56 PM



#32
1,1,1-Trichloroethane
Concen: 2.01 ug/l
RT: 7.87 min Scan# 1030
Delta R.T. -0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion: 97 Resp: 7791
Ion Ratio Lower Upper
97 100
99 64.4 52.6 78.8
61 42.3 32.9 49.3





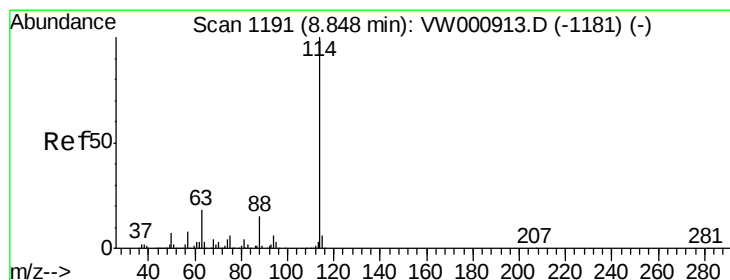
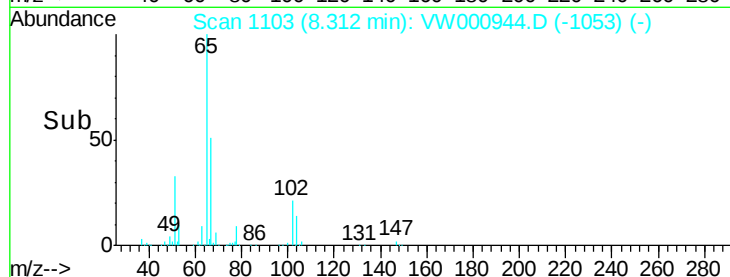
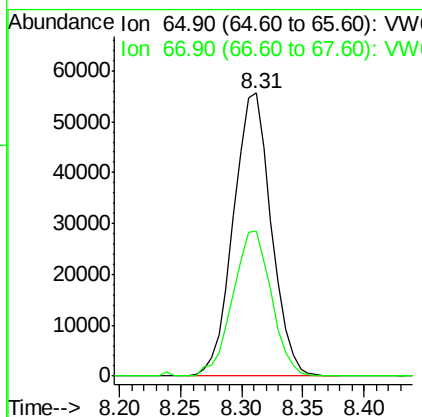
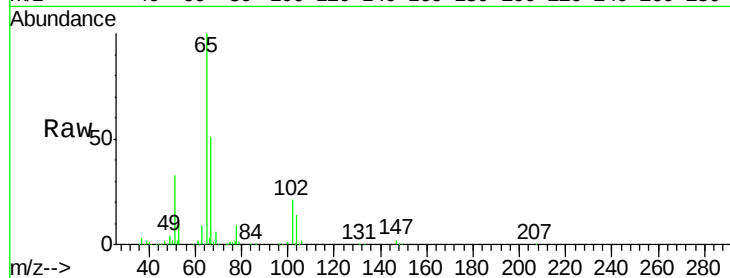
#33
 1,2-Dichloroethane-d4
 Concen: 50.67 ug/l
 RT: 8.31 min Scan# 1103
 Delta R.T. 0.01 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2018

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	52.5	0.0	105.8	

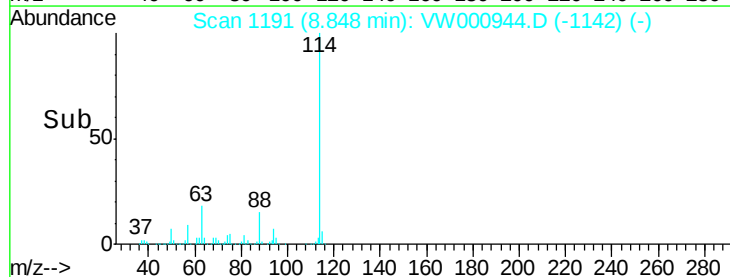
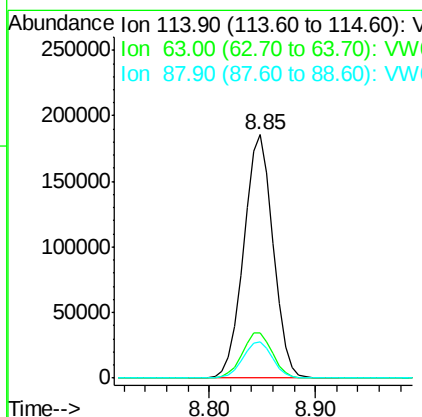
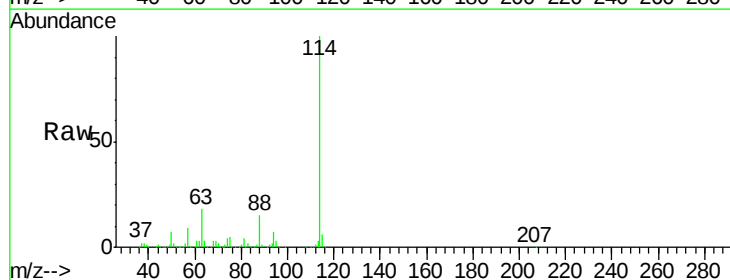
Manual Integrations
 APPROVED

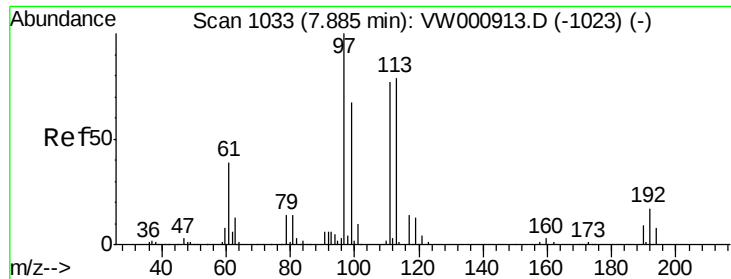
MMDadoda
 1/25/2018 1:33:56 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.85 min Scan# 1191
 Delta R.T. 0.00 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.5	0.0	36.8	
88	14.7	0.0	29.8	





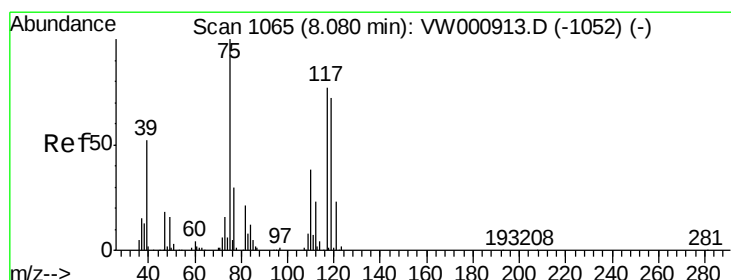
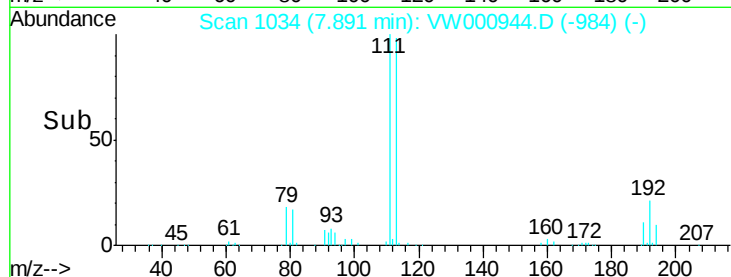
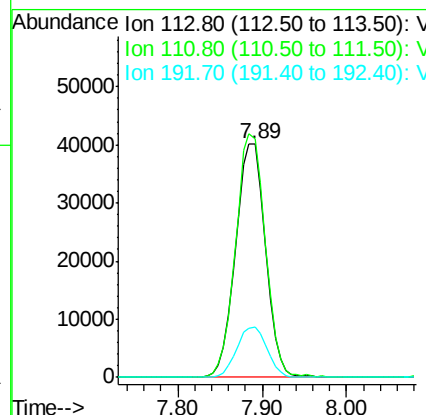
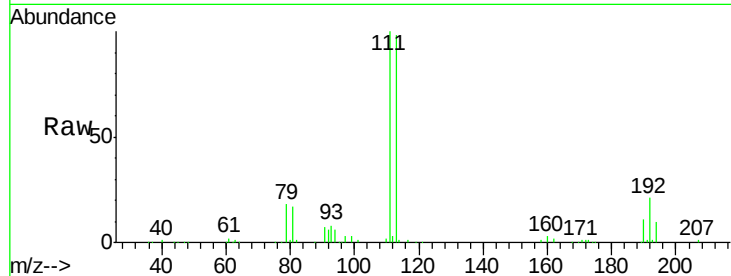
#35
 Dibromofluoromethane
 Concen: 43.62 ug/l
 RT: 7.89 min Scan# 1034
 Delta R.T. 0.01 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2018

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	80.4	120.6
192	21.7	17.0	25.4

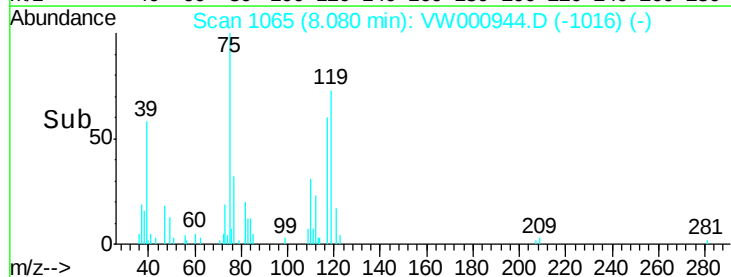
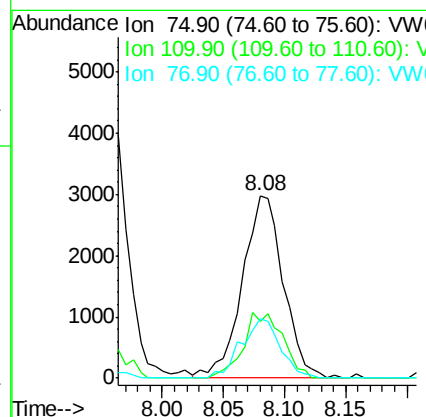
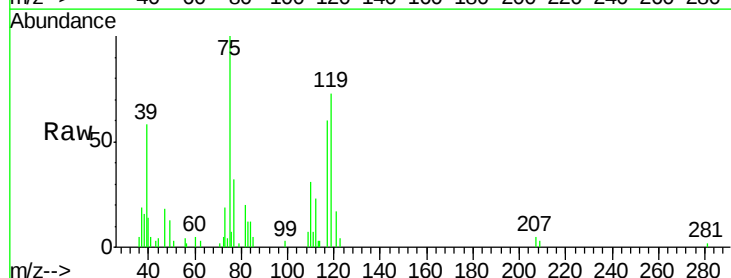
Manual Integrations
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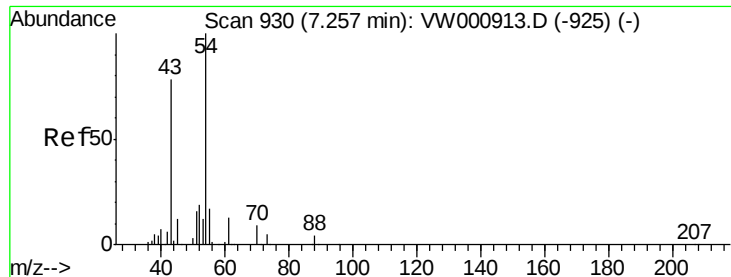
MMDadoda
 1/25/2018 1:33:56 PM



#36
 1,1-Dichloropropene
 Concen: 2.02 ug/l
 RT: 8.08 min Scan# 1065
 Delta R.T. 0.00 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.8	18.6	56.0
77	31.2	24.6	36.8





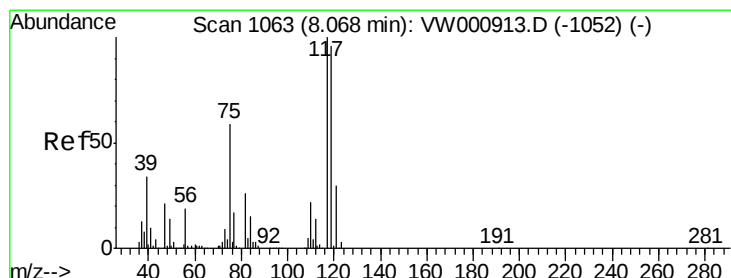
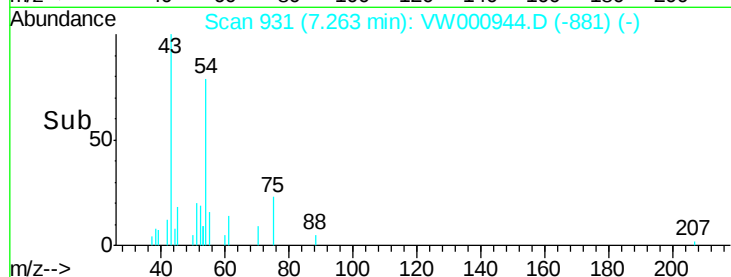
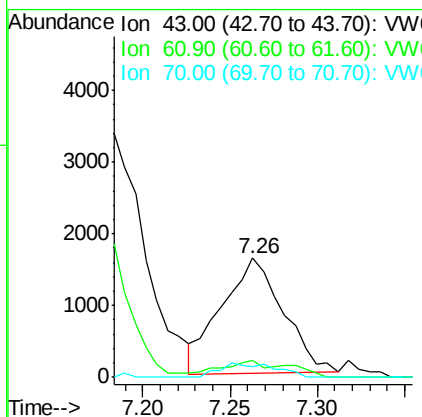
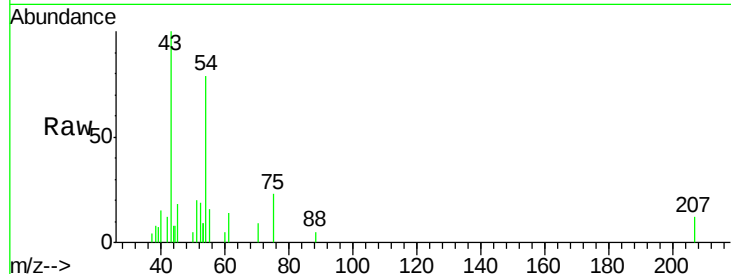
#37
Ethyl Acetate
Concen: 2.01 ug/l
RT: 7.26 min Scan# 931
Delta R.T. 0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tot Ion	Ratio	Lower	Upper
43	100		
61	7.1	12.1	18.1#
70	11.1	9.1	13.7

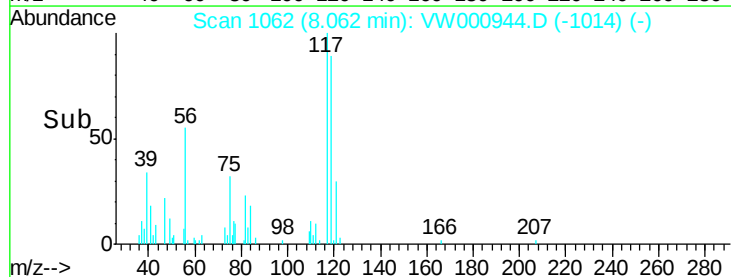
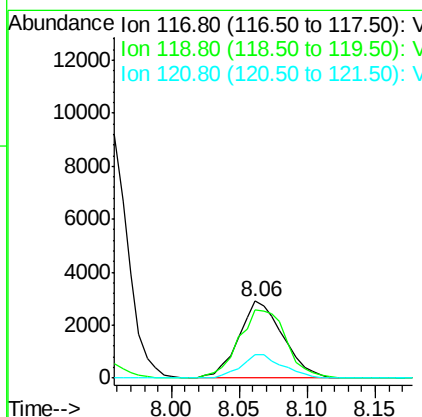
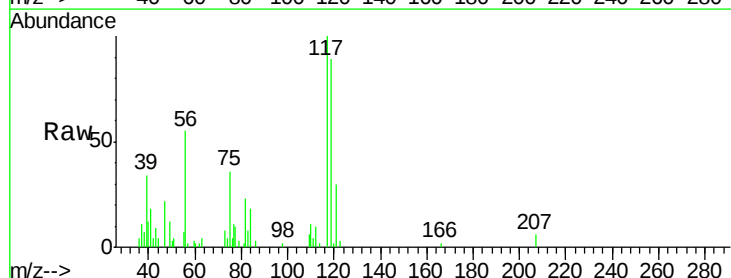
Manual Integrations
APPROVED

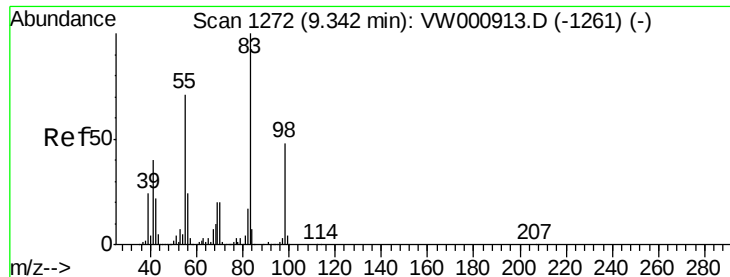
MMDadoda
1/25/2018 1:33:56 PM



#38
Carbon Tetrachloride
Concen: 1.74 ug/l
RT: 8.06 min Scan# 1062
Delta R.T. -0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	89.4	76.5	114.7
121	30.2	24.3	36.5





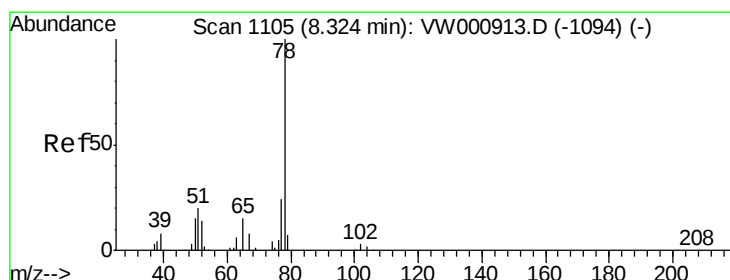
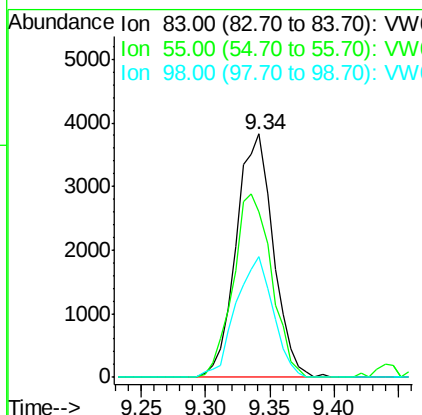
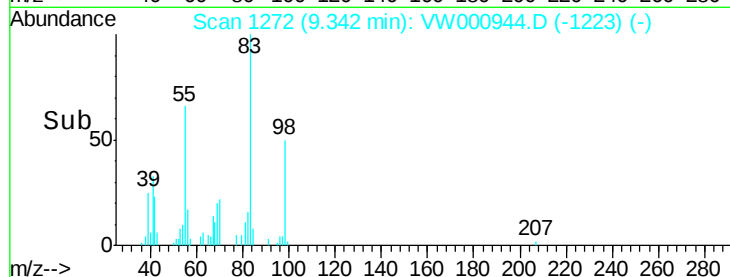
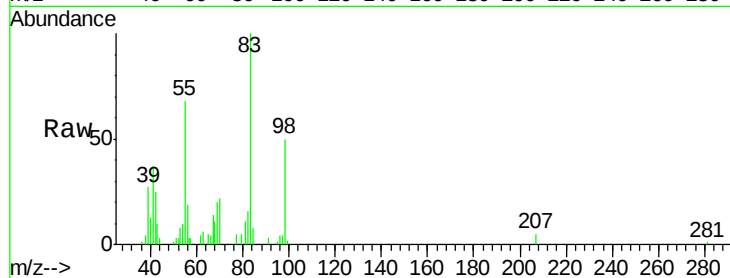
#39
Methvlcvclohexane
Concen: 1.85 ug/l
RT: 9.34 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tot Ion	Ratio	Lower	Upper
83	100		
55	68.0	56.4	84.6
98	49.6	38.2	57.4

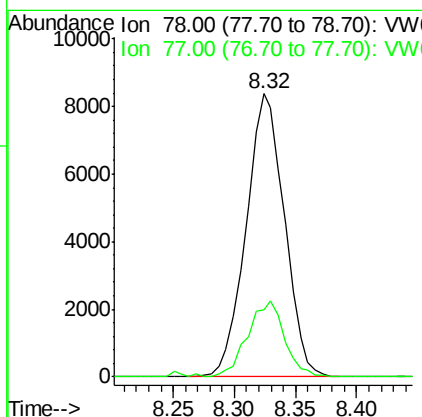
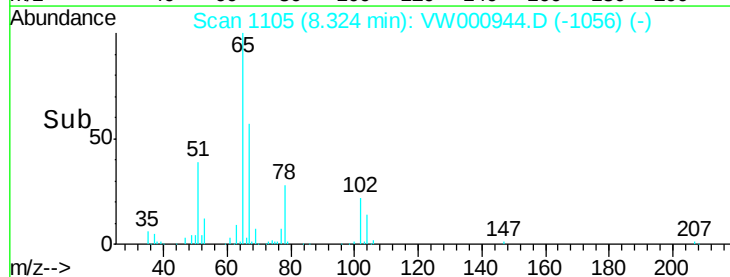
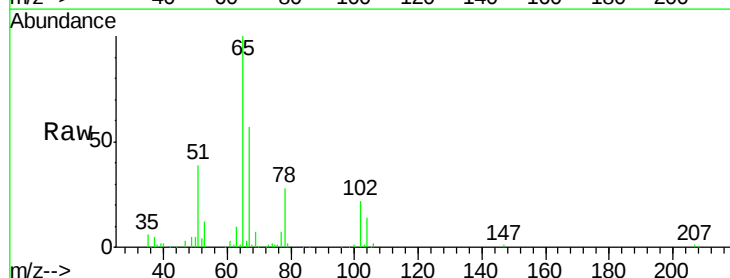
Manual Integrations
APPROVED

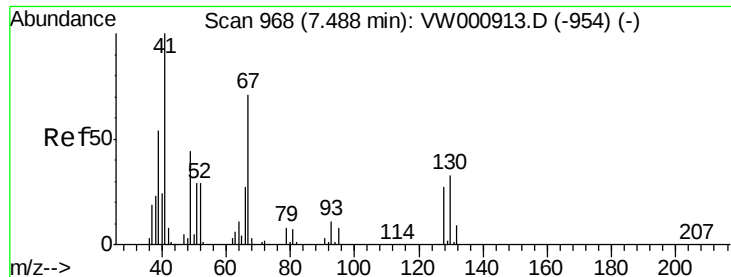
MMDadoda
1/25/2018 1:33:56 PM



#40
Benzene
Concen: 1.95 ug/l
RT: 8.32 min Scan# 1105
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.0	28.6





#41

Methacrylonitrile

Concen: 1.63 ug/l

RT: 7.49 min Scan# 968

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

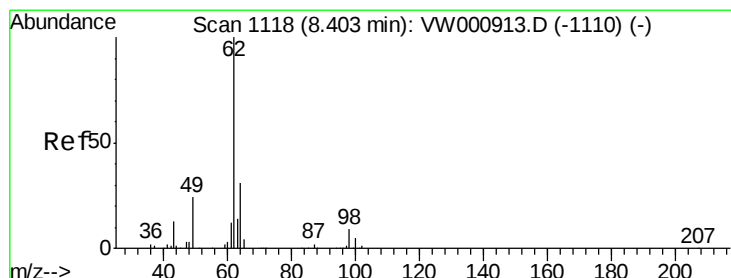
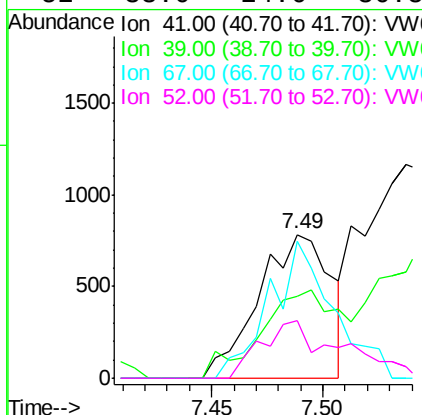
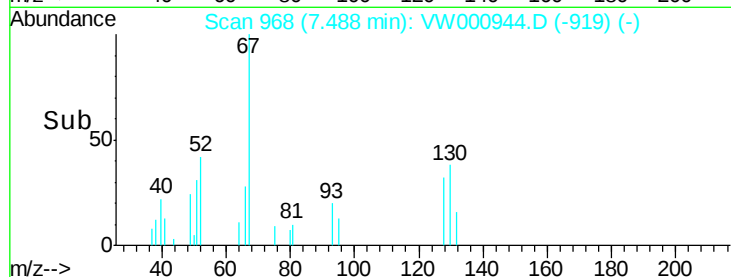
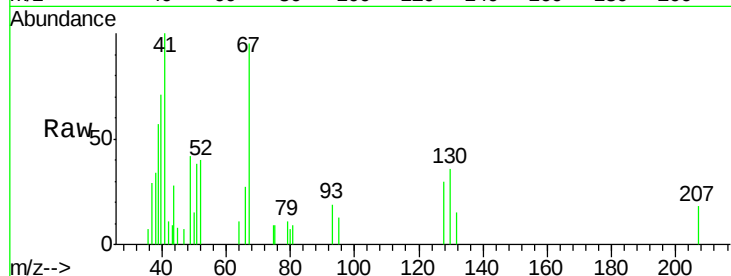
MDL-SOIL-03-QT1-2018

Tot Ion: 41 Resp: 1773

Ion	Ratio	Lower	Upper
41	100		
39	67.7	43.4	65.0#
67	83.9	59.0	88.4
52	33.0	24.6	36.8

Manual Integrations
APPROVED

MMDadoda
1/25/2018 1:33:56 PM



#42

1,2-Dichloroethane

Concen: 1.96 ug/l

RT: 8.41 min Scan# 1119

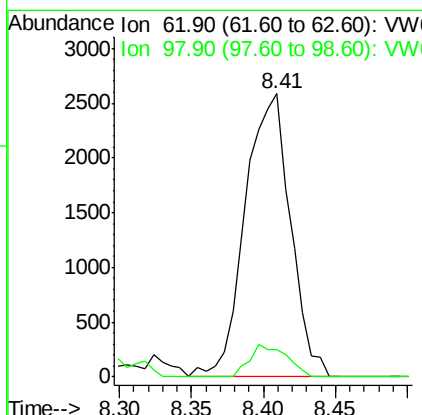
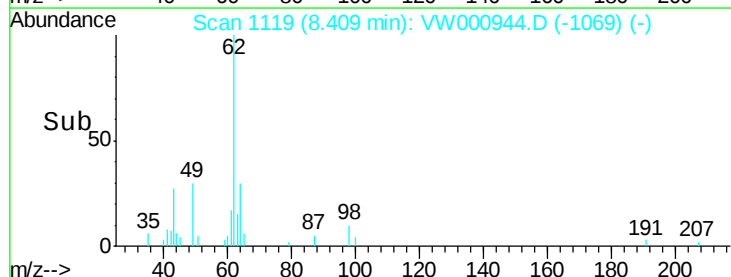
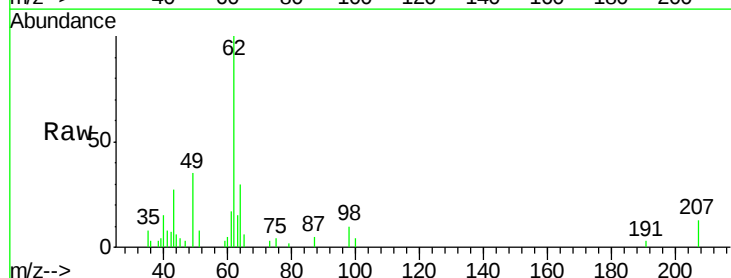
Delta R.T. 0.01 min

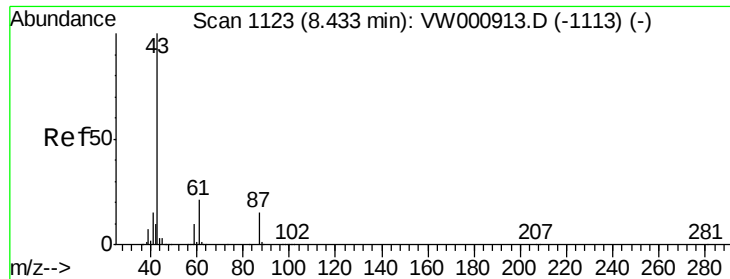
Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Tgt Ion: 62 Resp: 5631

Ion	Ratio	Lower	Upper
62	100		
98	9.2	0.0	18.0





#43

Isopropyl Acetate

Concen: 1.79 ug/l

RT: 8.43 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

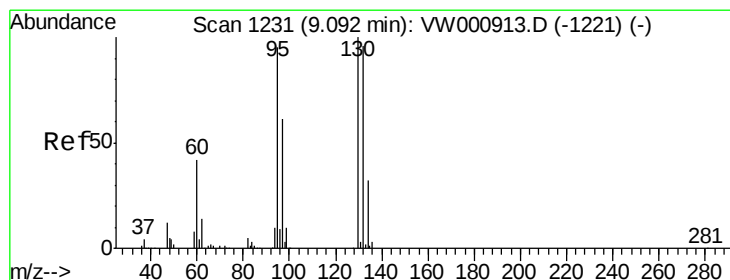
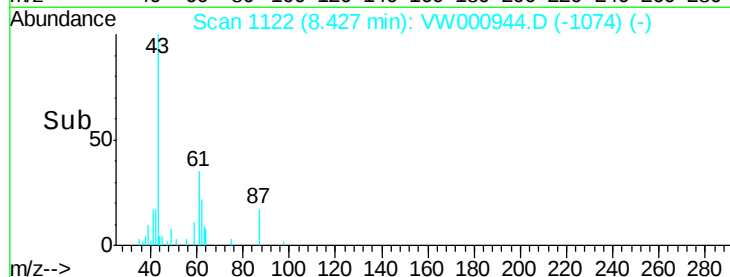
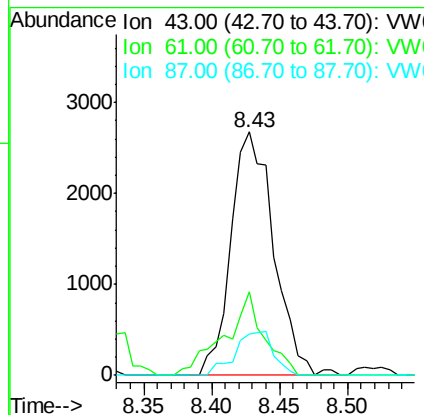
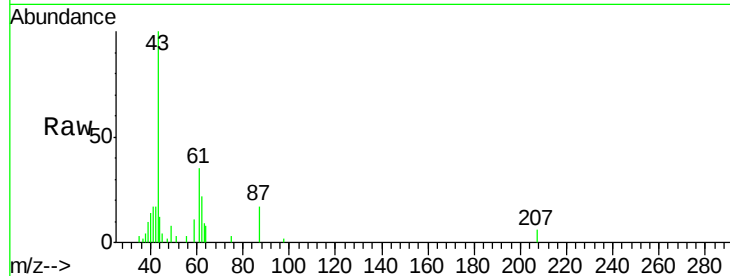
ClientSampleId :

MDL-SOIL-03-QT1-2018

Tot Ion:	43	Resp:	5870
Ion	Ratio	Lower	Upper
43	100		
61	31.7	23.6	35.4
87	16.3	11.7	17.5

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#44

Trichloroethene

Concen: 2.10 ug/l

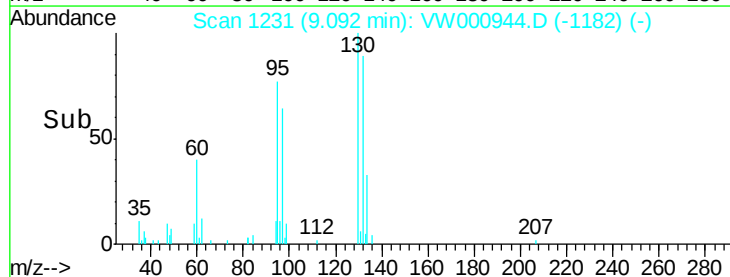
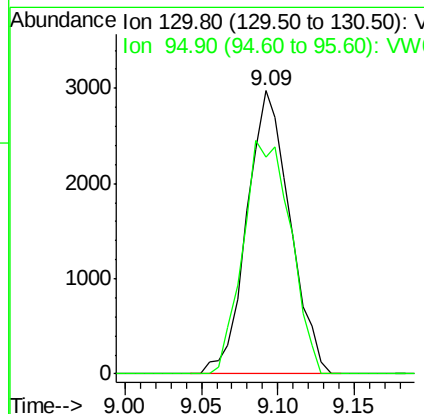
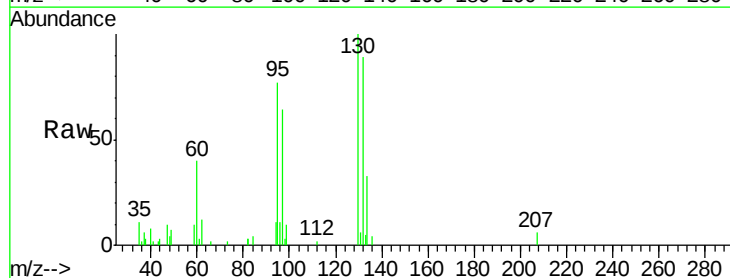
RT: 9.09 min Scan# 1231

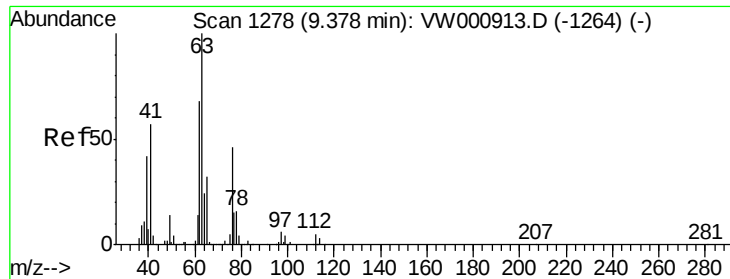
Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Tgt Ion:	130	Resp:	5827
Ion	Ratio	Lower	Upper
130	100		
95	76.7	0.0	190.4





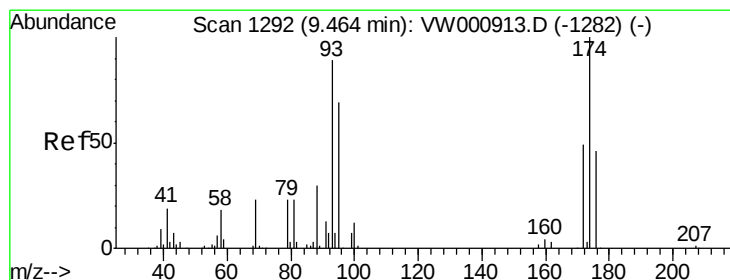
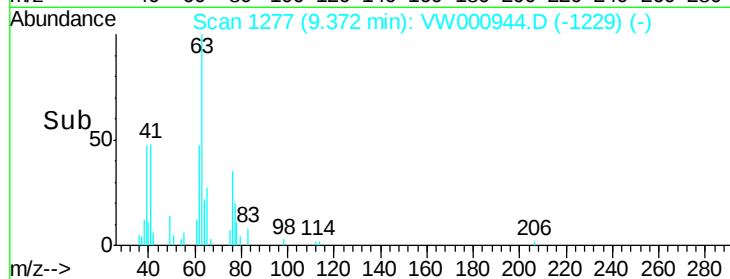
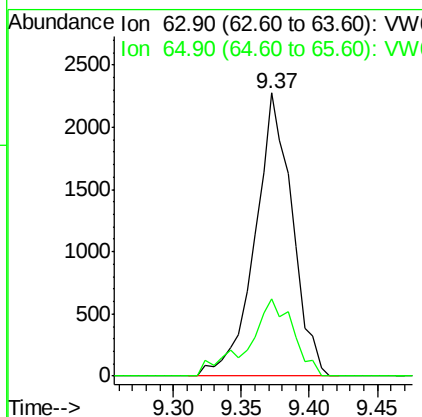
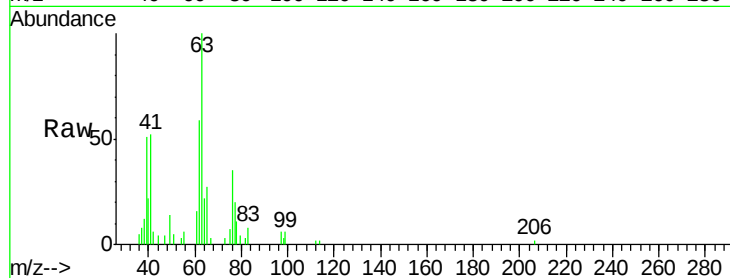
#45
 1,2-Dichloropropane
 Concen: 2.00 ug/l
 RT: 9.37 min Scan# 1277
 Delta R.T. -0.01 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2018

Tot Ion	63	Resp	4363
Ion Ratio	Lower	Upper	
63	100		
65	27.4	25.2	37.8

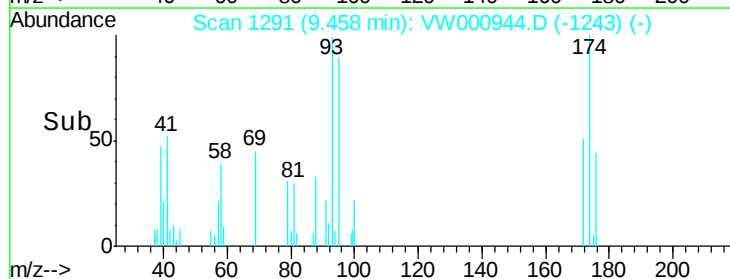
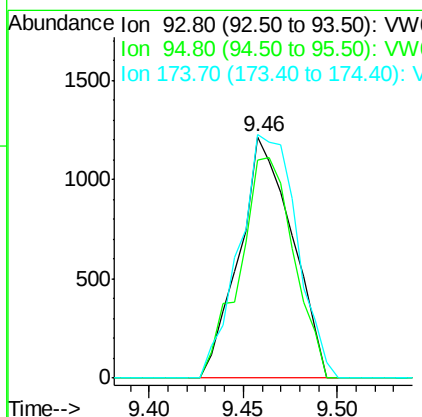
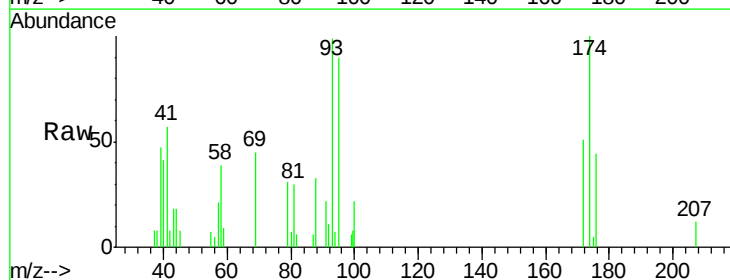
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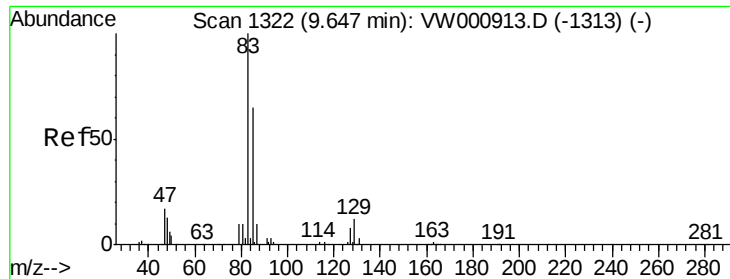
MMDadoda
 1/25/2018 1:33:56 PM



#46
 Dibromomethane
 Concen: 1.70 ug/l
 RT: 9.46 min Scan# 1291
 Delta R.T. -0.01 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Tgt Ion	93	Resp	2366
Ion Ratio	Lower	Upper	
93	100		
95	93.4	65.8	98.6
174	110.1	89.0	133.6





#47

Bromodichloromethane

Concen: 1.72 ug/l

RT: 9.65 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

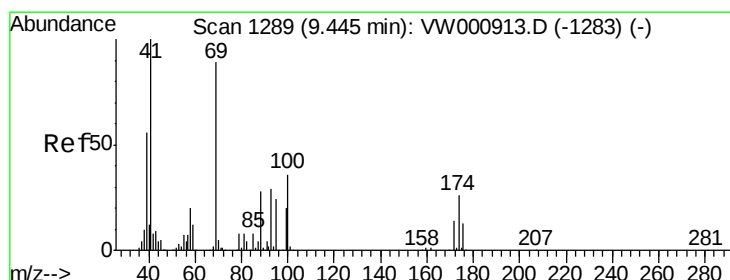
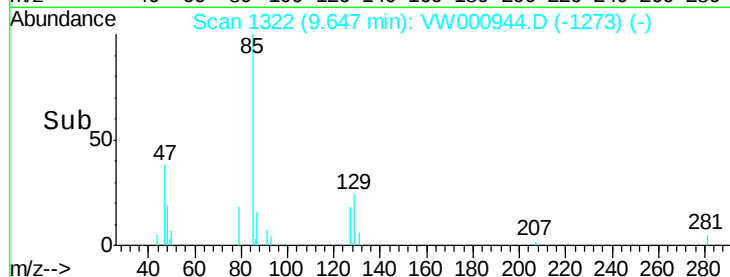
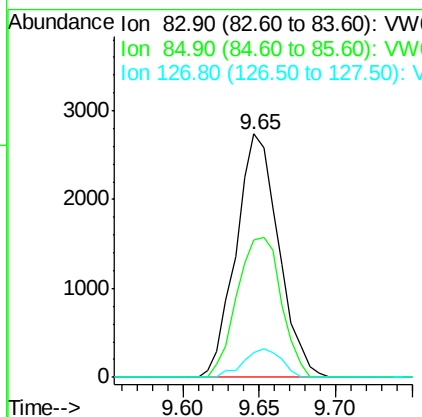
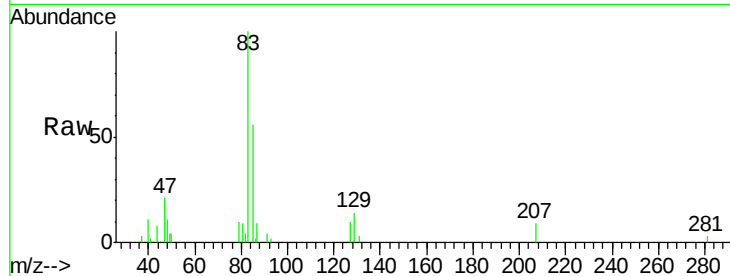
ClientSampleId :

MDL-SOIL-03-QT1-2018

Tot Ion:	83	Resp:	5298
Ion	Ratio	Lower	Upper
83	100		
85	56.2	52.0	78.0
127	10.0	6.8	10.2

Manual Integrations
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#48

Methyl methacrylate

Concen: 1.61 ug/l

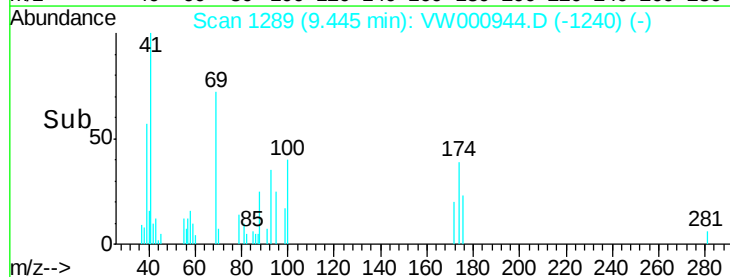
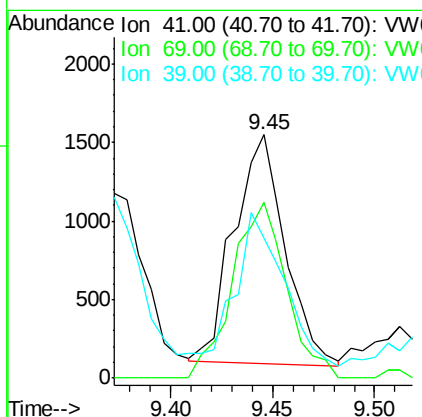
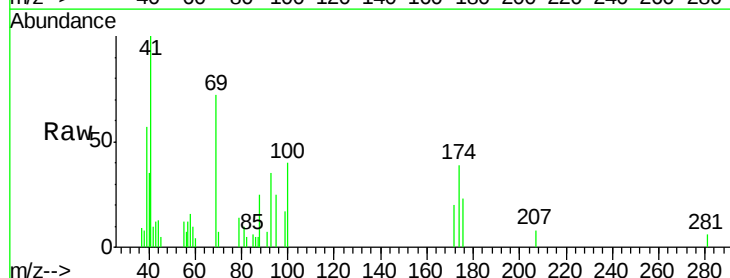
RT: 9.45 min Scan# 1289

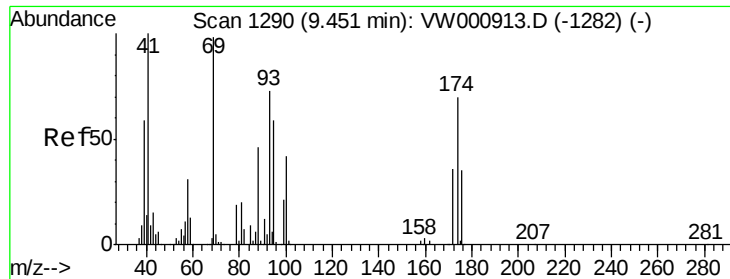
Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Tgt Ion:	41	Resp:	2540
Ion	Ratio	Lower	Upper
41	100		
69	80.6	72.9	109.3
39	74.6	48.4	72.6#





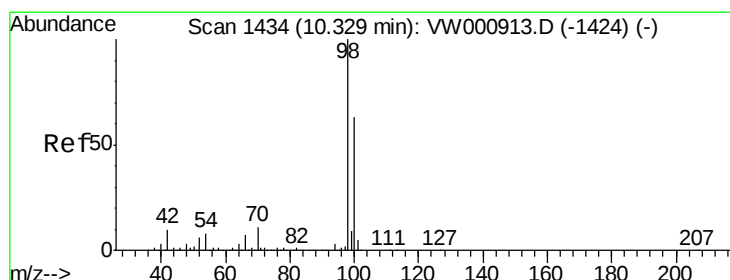
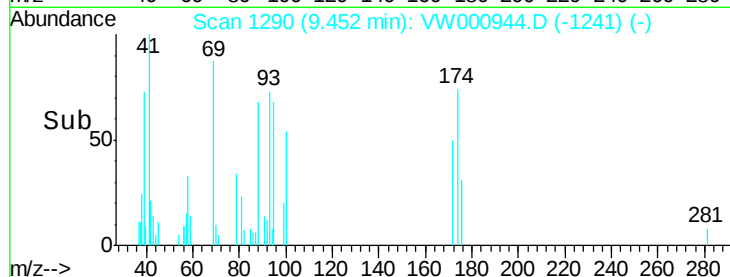
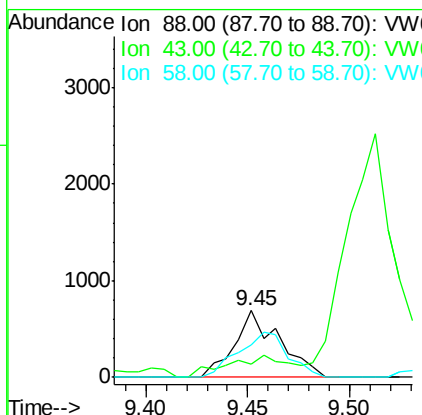
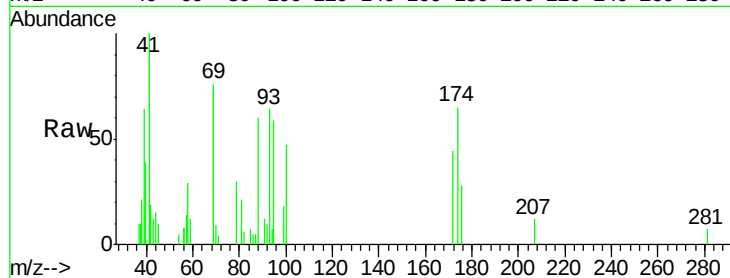
#49
1,4-Dioxane
Concen: 34.78 ug/l
RT: 9.45 min Scan# 1290
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tot Ion	88	Resp	1058
Ion	Ratio	Lower	Upper
88	100		
43	44.4	24.5	36.7#
58	75.1	54.7	82.1

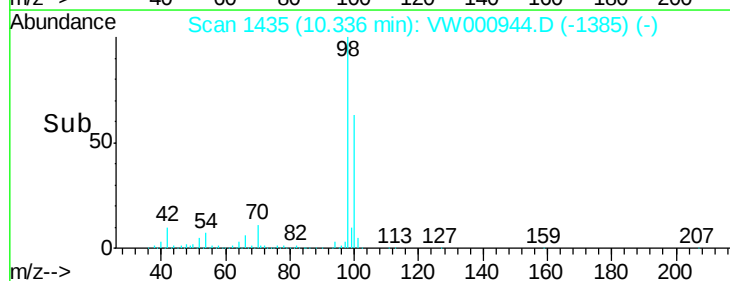
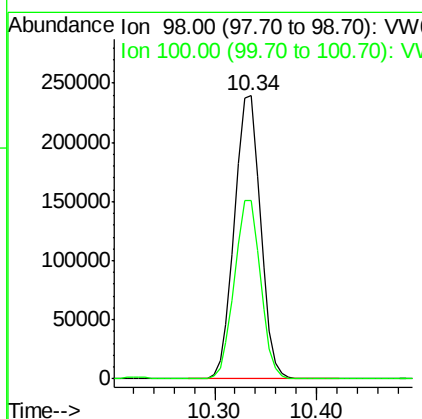
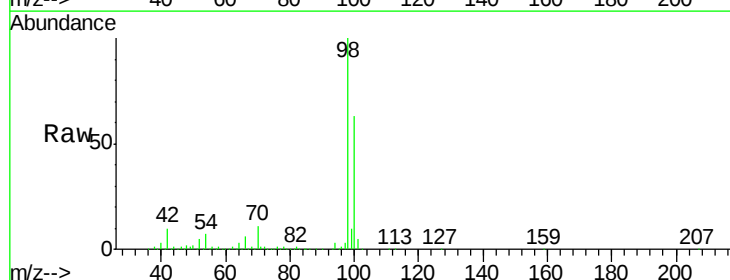
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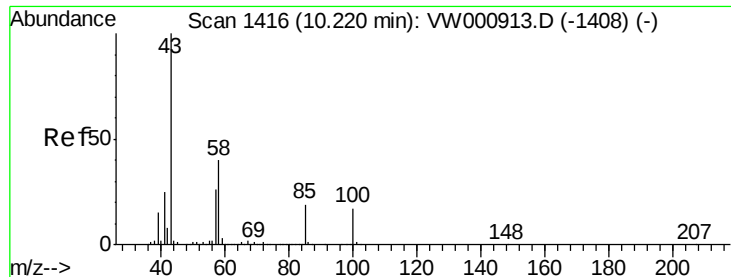
MM Dadoda
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#50
Toluene-d8
Concen: 48.86 ug/l
RT: 10.34 min Scan# 1435
Delta R.T. 0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion	98	Resp	424722
Ion	Ratio	Lower	Upper
98	100		
100	62.9	50.8	76.2





#51

4-Methyl-2-Pentanone

Concen: 8.15 ug/l

RT: 10.22 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

Tot Ion: 43 Resp: 15418

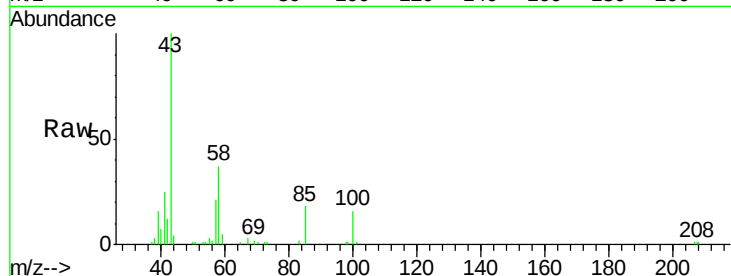
Ion Ratio Lower Upper

43 100

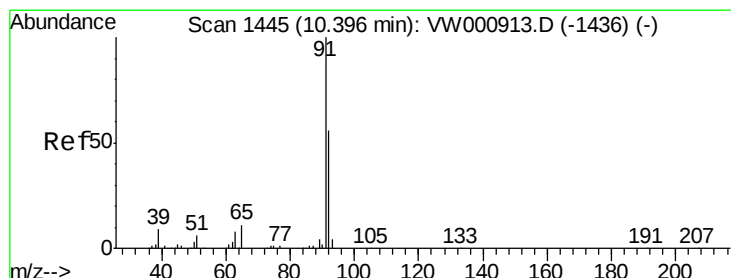
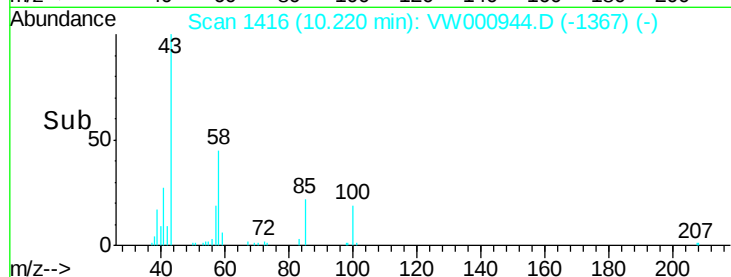
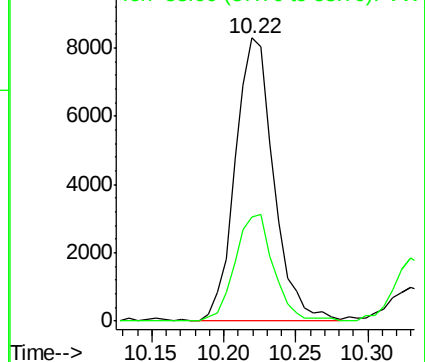
58 37.9 32.0 48.0

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



#52

Toluene

Concen: 1.96 ug/l

RT: 10.40 min Scan# 1445

Delta R.T. 0.00 min

Lab File: VW000944.D

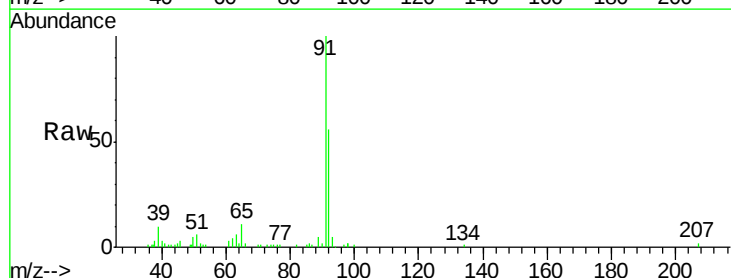
Acq: 24 Jan 2018 13:10

Tgt Ion: 92 Resp: 11541

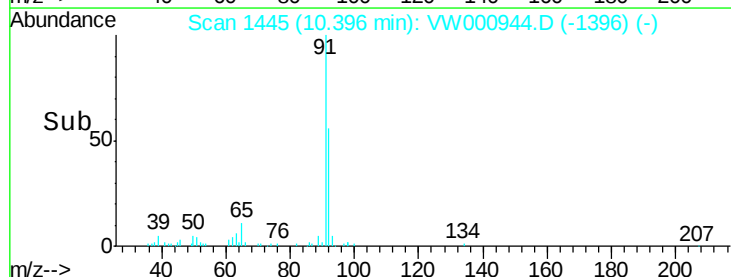
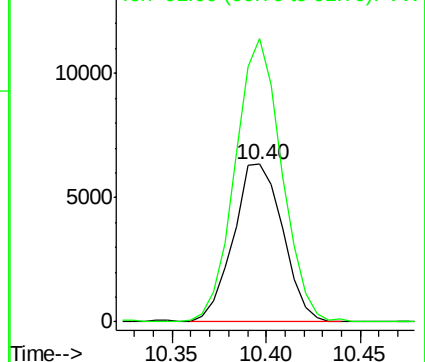
Ion Ratio Lower Upper

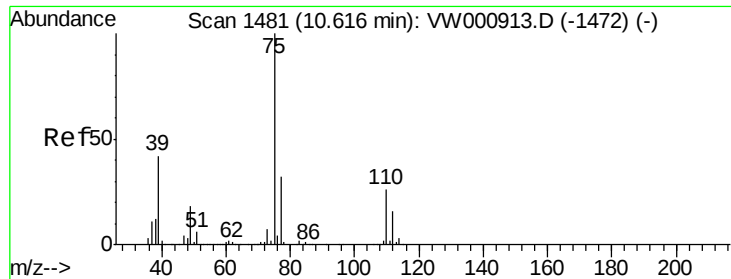
92 100

91 169.3 140.7 211.1



Abundance Ion 92.00 (91.70 to 92.70): VW
Ion 91.00 (90.70 to 91.70): VW





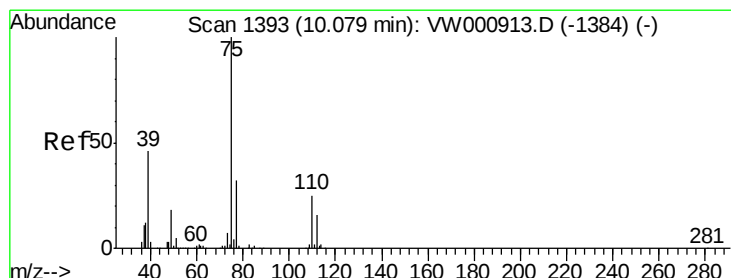
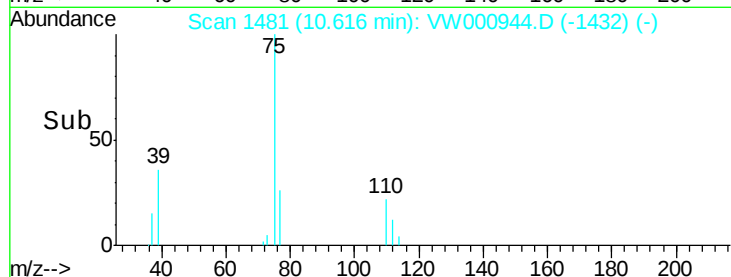
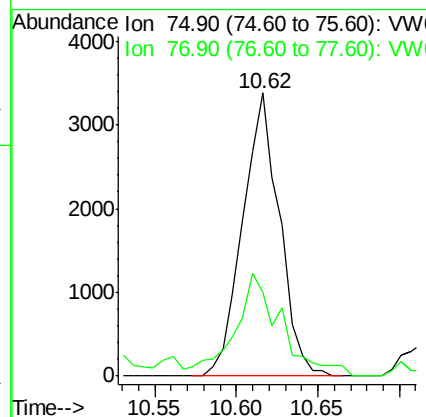
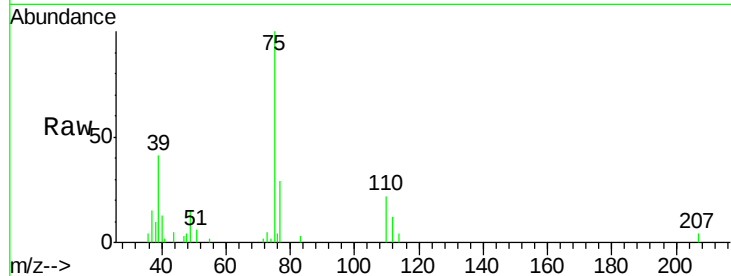
#53
t-1,3-Dichloropropene
Concen: 1.70 ug/l
RT: 10.62 min Scan# 1481
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tot Ion	Ratio	Lower	Upper
75	100		
77	26.2	25.7	38.5

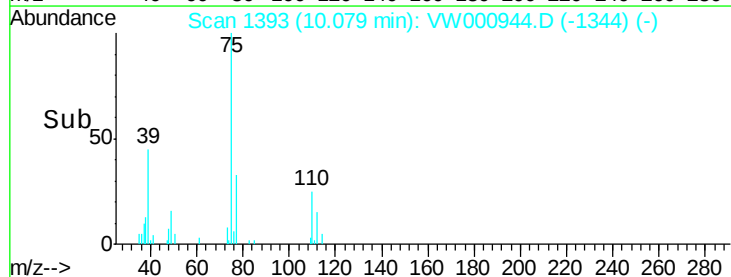
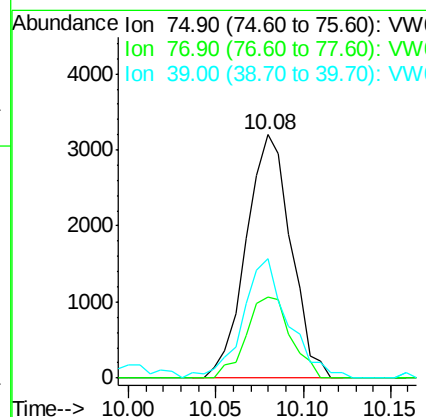
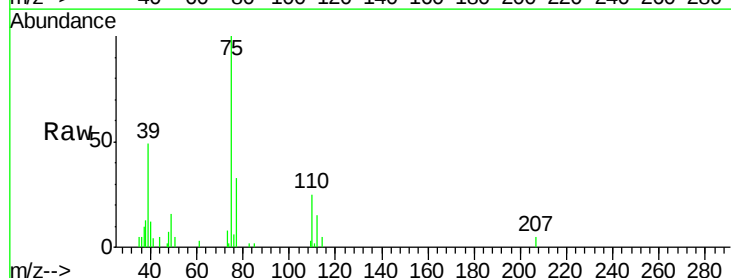
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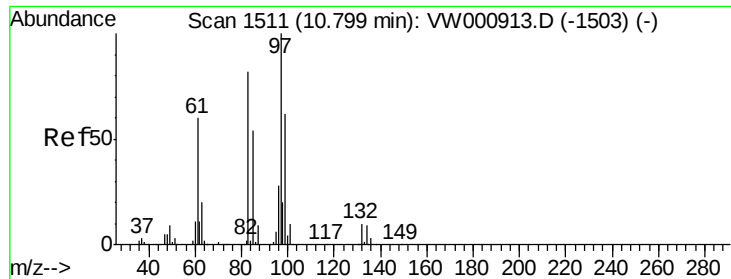
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#54
cis-1,3-Dichloropropene
Concen: 1.66 ug/l
RT: 10.08 min Scan# 1393
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Lower	Upper
75	100		
77	33.1	25.3	37.9
39	46.7	37.0	55.6





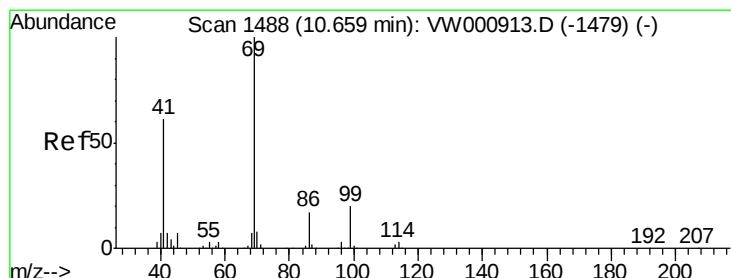
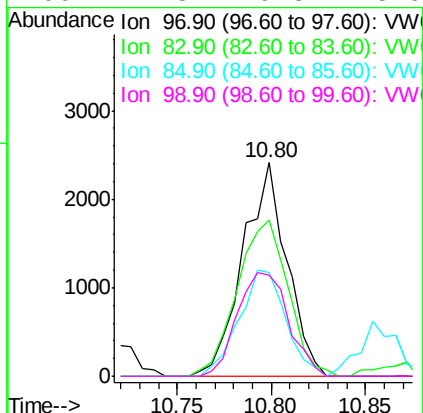
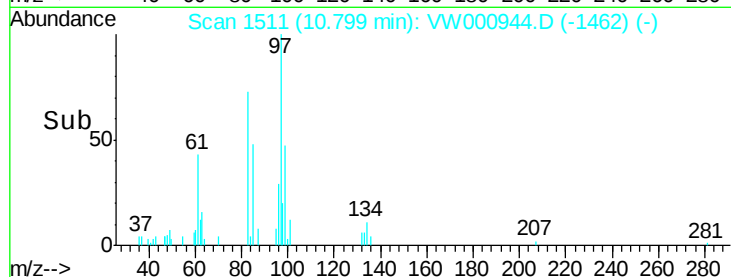
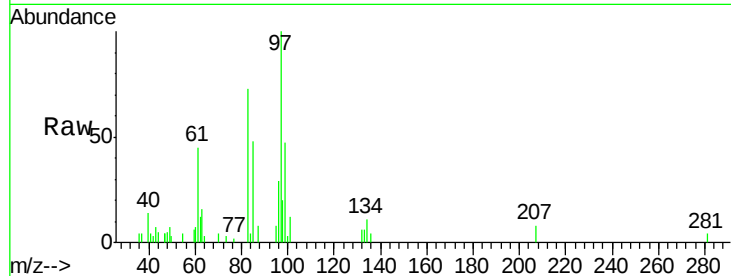
#55
 1,1,2-Trichloroethane
 Concen: 2.00 ug/l
 RT: 10.80 min Scan# 1511
 Delta R.T. 0.00 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2018

Tot Ion:	97	Resp:	3891
Ion	Ratio	Lower	Upper
97	100		
83	73.2	65.2	97.8
85	48.3	43.1	64.7
99	47.3	49.3	73.9#

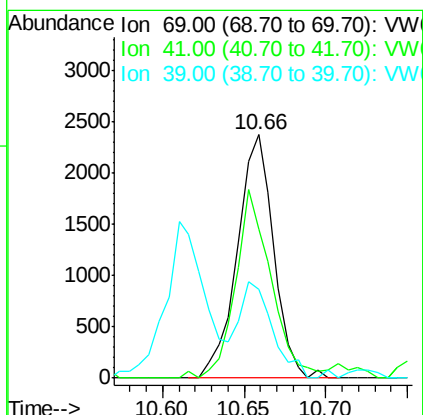
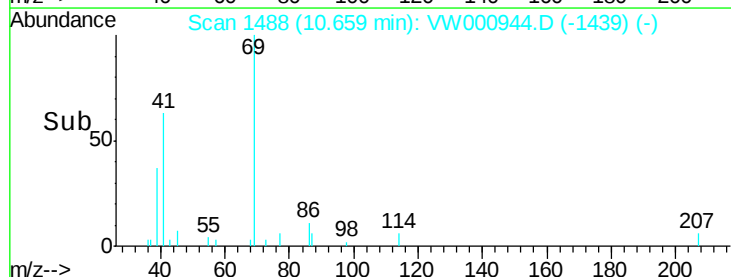
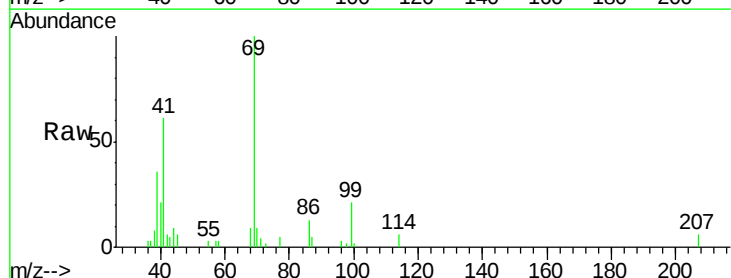
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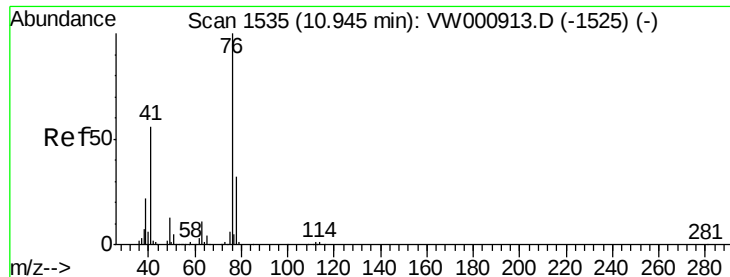
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#56
 Ethyl methacrylate
 Concen: 4.57 ug/l
 RT: 10.66 min Scan# 1488
 Delta R.T. 0.00 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Tgt Ion:	69	Resp:	3695
Ion	Ratio	Lower	Upper
69	100		
41	75.7	50.3	75.5#
39	35.9	28.6	42.8





#57

1,3-Dichloropropane

Concen: 1.83 ug/l

RT: 10.94 min Scan# 1534

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

Tot Ion: 76 Resp: 5824

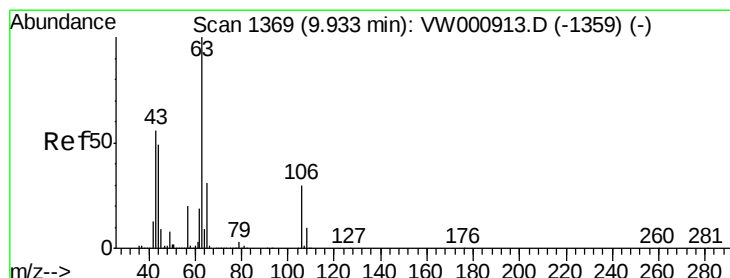
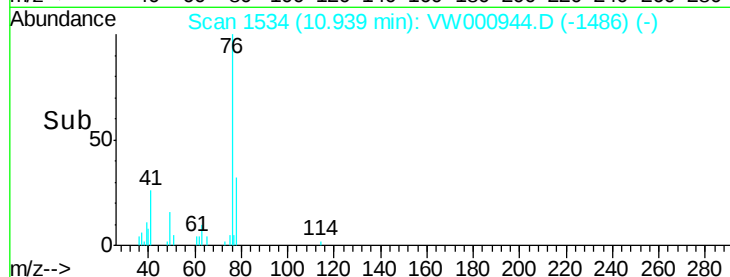
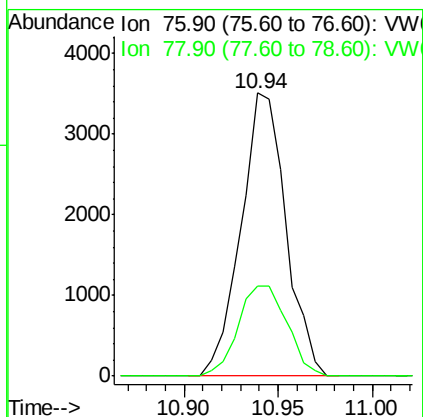
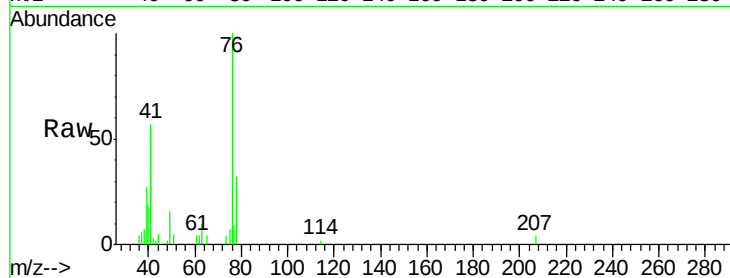
Ion Ratio Lower Upper

76 100

78 34.6 25.8 38.8

Manual Integrations
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1/25/2018 1:33:56 PM



#58

2-Chloroethyl Vinyl ether

Concen: 29.04 ug/l

RT: 9.93 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VW000944.D

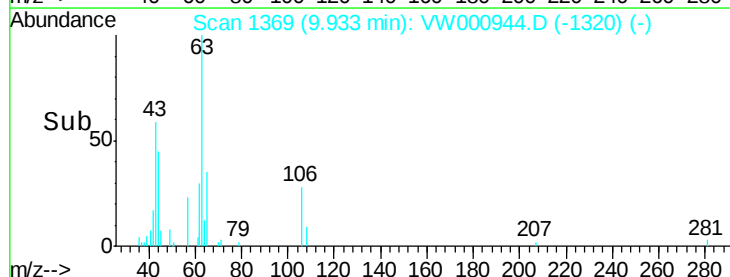
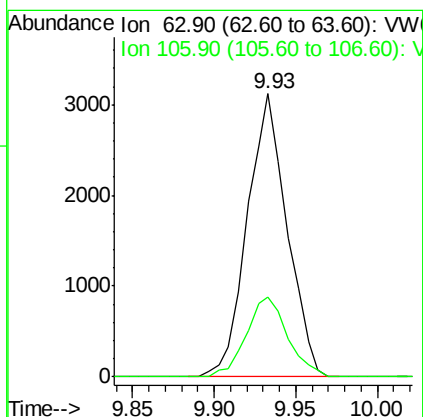
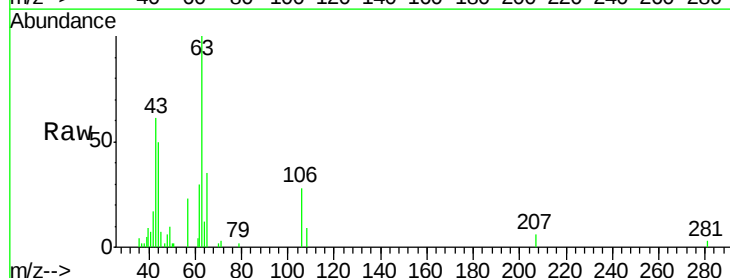
Acq: 24 Jan 2018 13:10

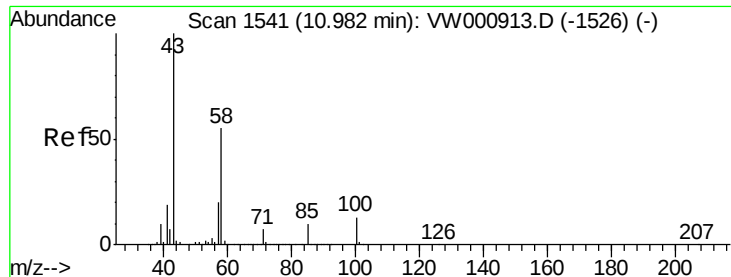
Tgt Ion: 63 Resp: 5271

Ion Ratio Lower Upper

63 100

106 29.4 23.8 35.8





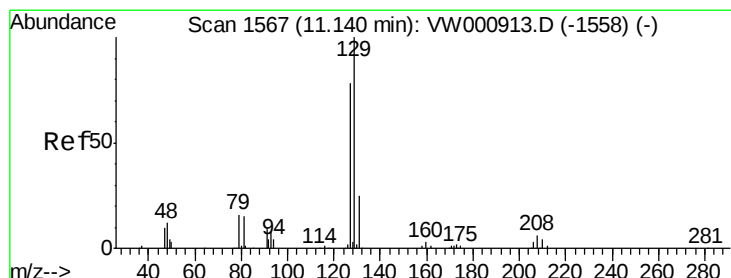
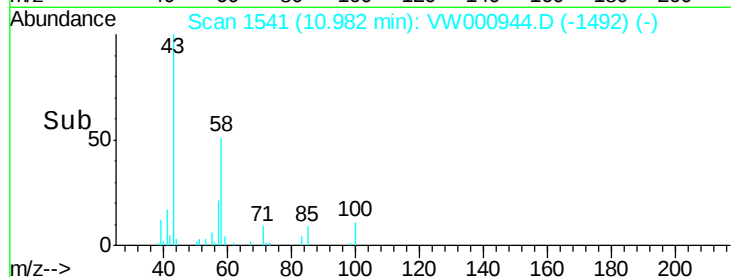
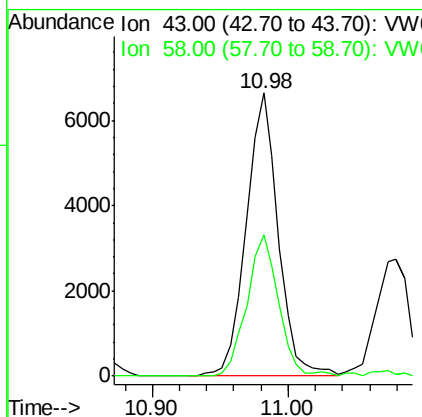
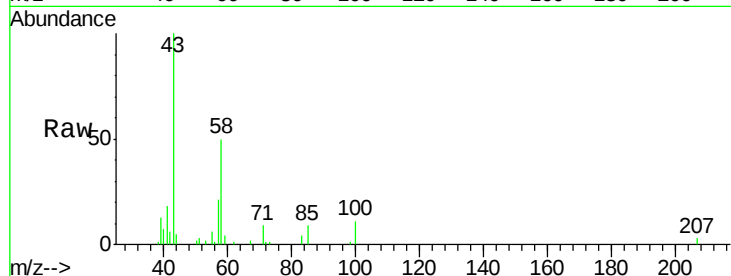
#59
2-Hexanone
Concen: 20.87 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tot Ion: 43 Resp: 10940
Ion Ratio Lower Upper
43 100
58 48.9 27.4 82.2

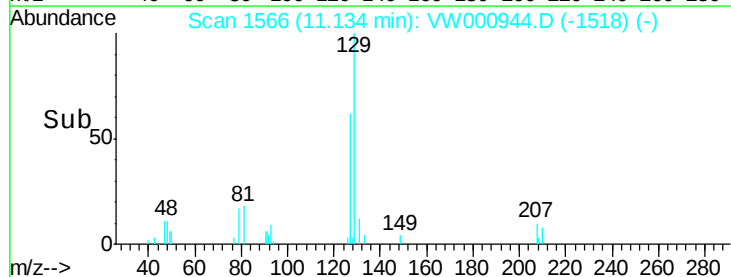
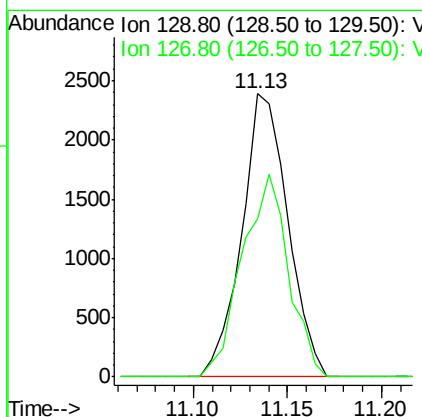
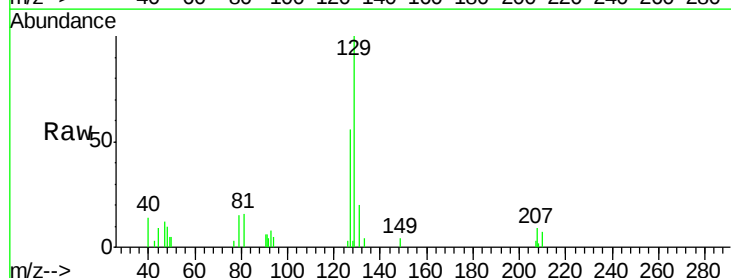
Manual Integrations
APPROVED

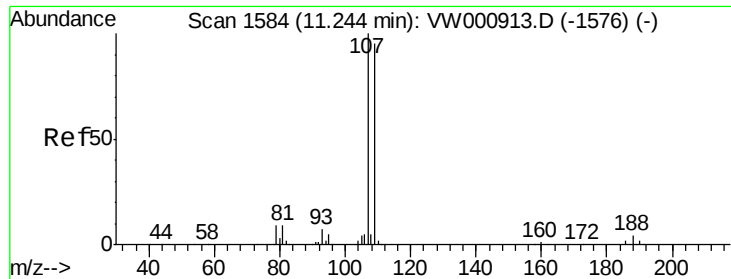
MMDadoda
1/25/2018 1:33:56 PM



#60
Dibromochloromethane
Concen: 1.73 ug/l
RT: 11.13 min Scan# 1566
Delta R.T. -0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion: 129 Resp: 4050
Ion Ratio Lower Upper
129 100
127 72.0 38.4 115.2





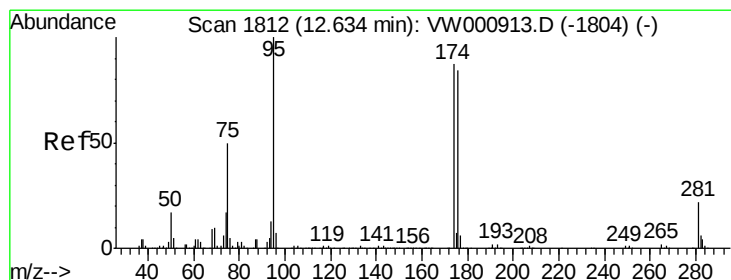
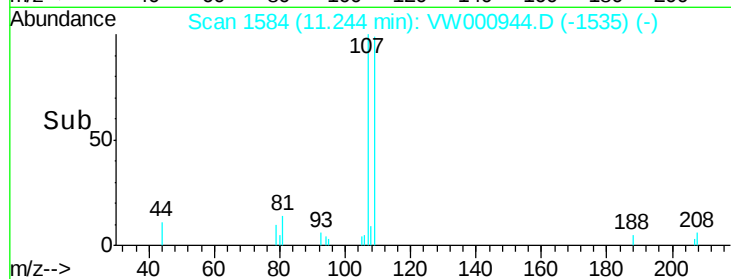
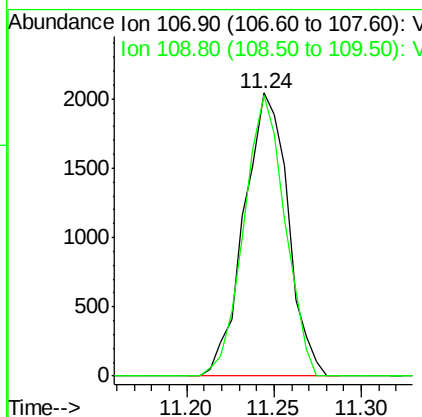
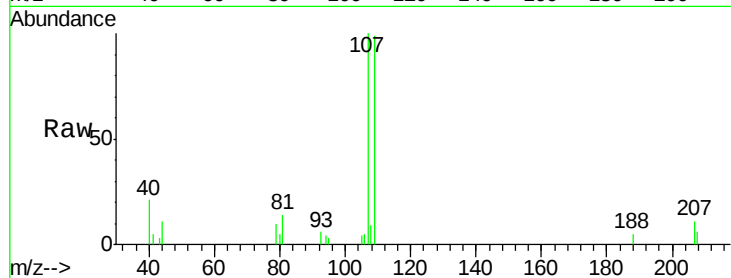
#61
 1,2-Dibromoethane
 Concen: 1.76 ug/l
 RT: 11.24 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2018

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.5	76.0	114.0

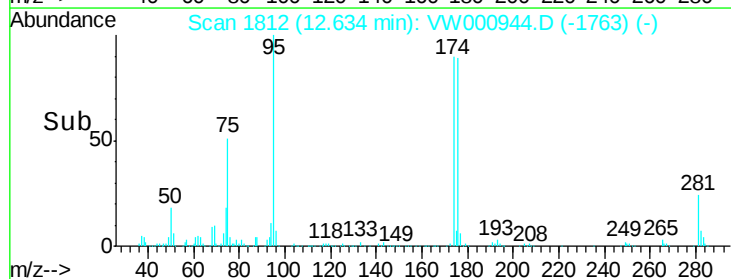
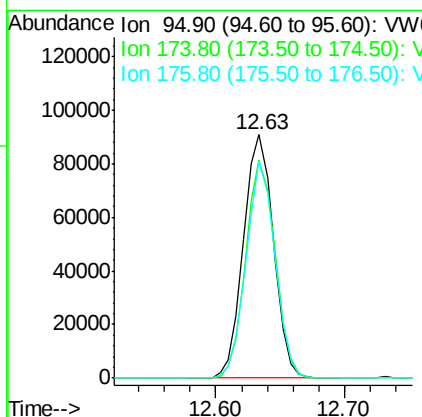
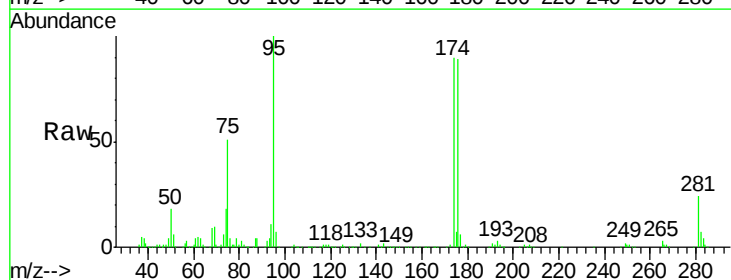
Manual Integrations
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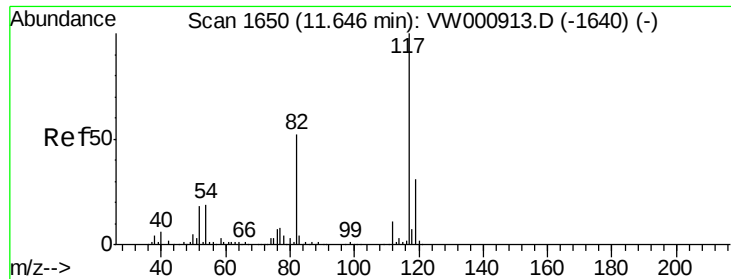
MMDadoda
 1/25/2018 1:33:56 PM



#62
 4-Bromofluorobenzene
 Concen: 46.05 ug/l
 RT: 12.63 min Scan# 1812
 Delta R.T. 0.00 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.0	0.0	176.8
176	85.8	0.0	171.8





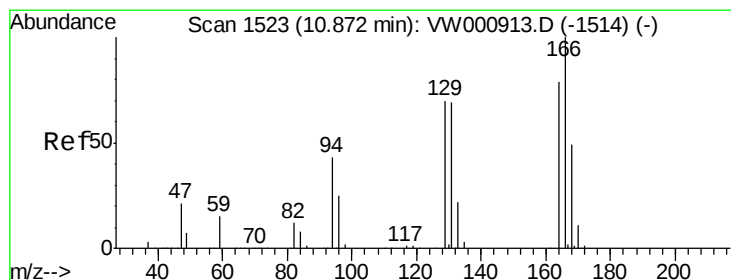
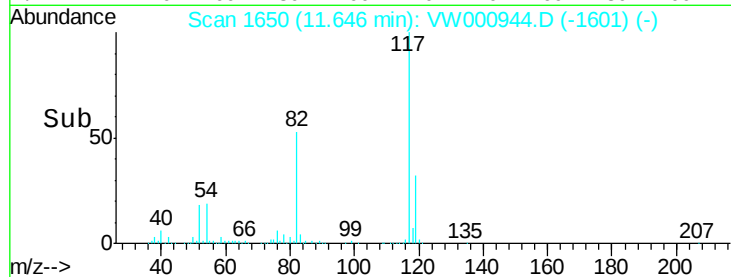
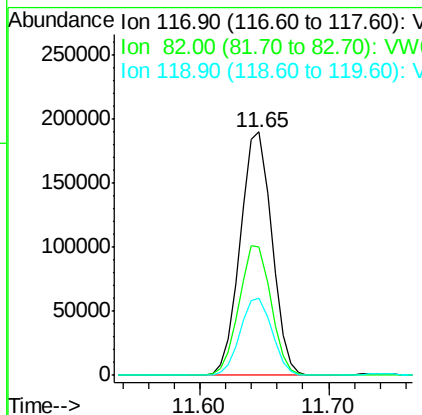
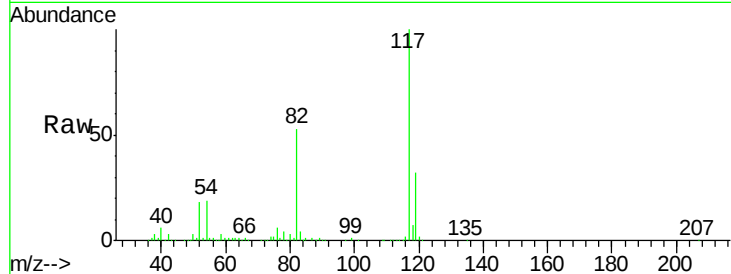
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.65 min Scan# 1650
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.6	41.8	62.6
119	31.8	25.2	37.8

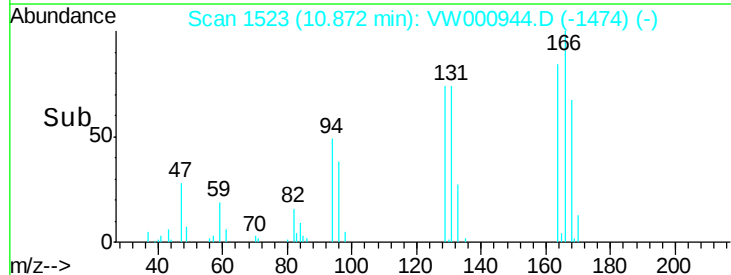
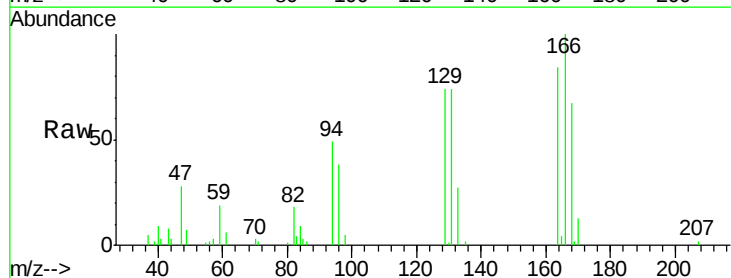
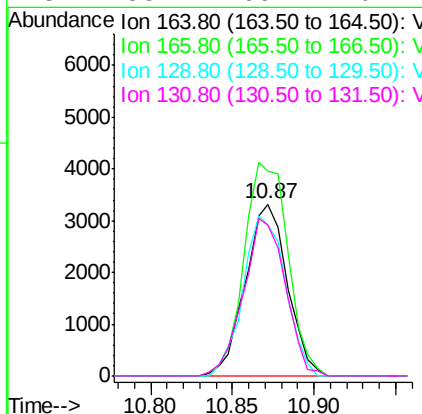
Manual Integrations
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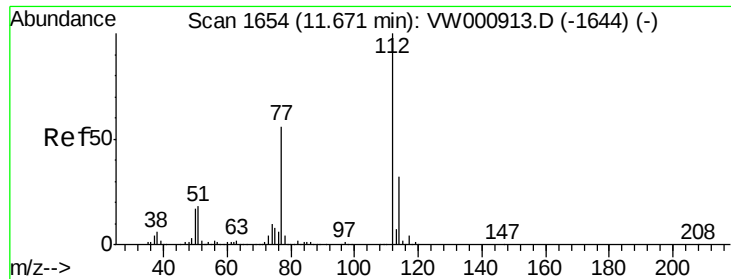
MMDadoda
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#64
Tetrachloroethene
Concen: 2.23 ug/l
RT: 10.87 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Lower	Upper
164	100		
166	119.2	100.9	151.3
129	88.2	70.5	105.7
131	88.1	69.4	104.2





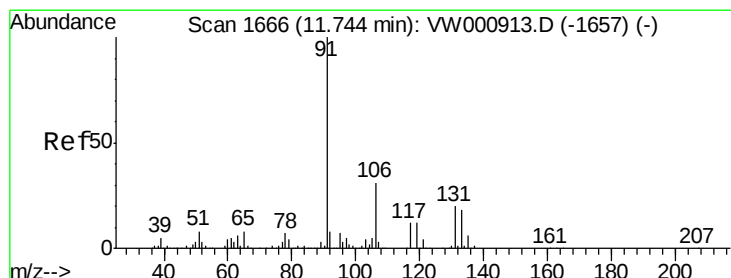
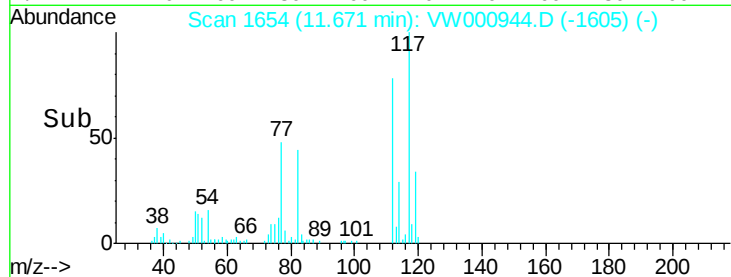
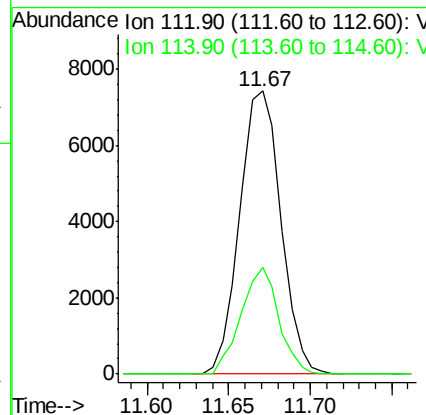
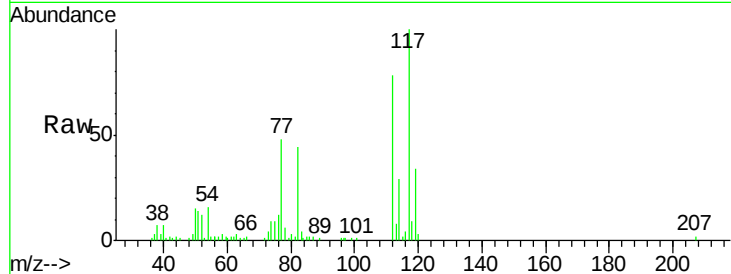
#65
Chlorobenzene
Concen: 1.98 ug/l
RT: 11.67 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tot Ion:112 Resp: 13078
Ion Ratio Lower Upper
112 100
114 37.6 25.8 38.6

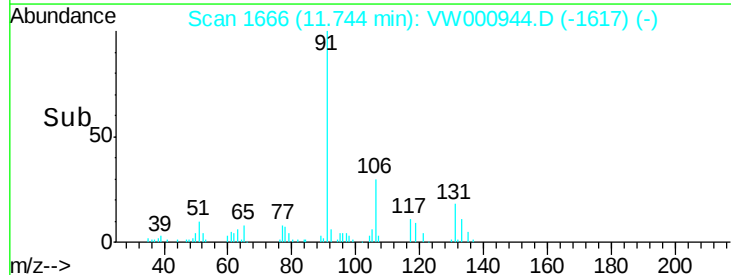
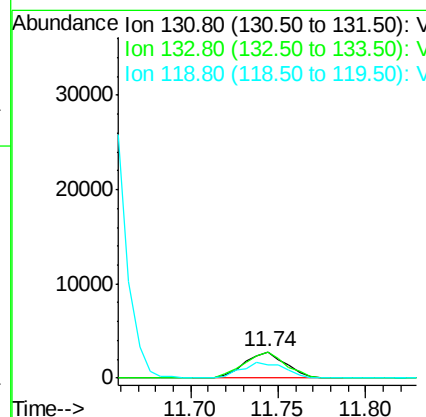
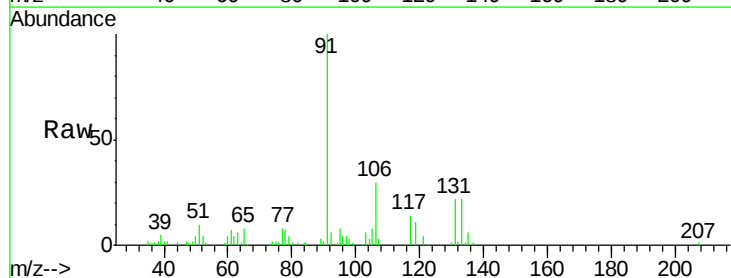
Manual Integrations
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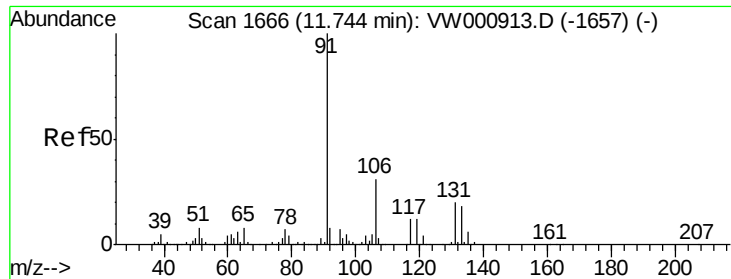
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 1.89 ug/l
RT: 11.74 min Scan# 1666
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion:131 Resp: 4491
Ion Ratio Lower Upper
131 100
133 101.0 47.3 142.0
119 0.0 31.6 94.7#





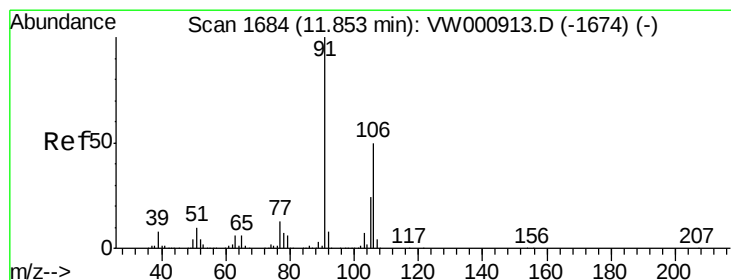
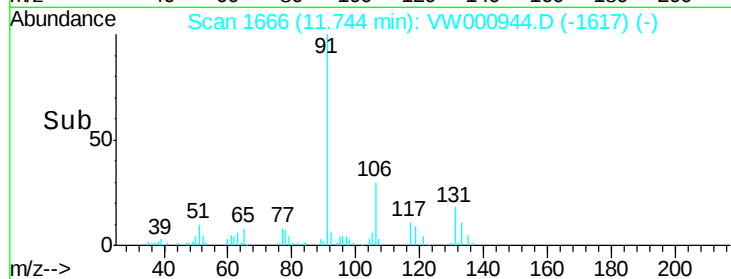
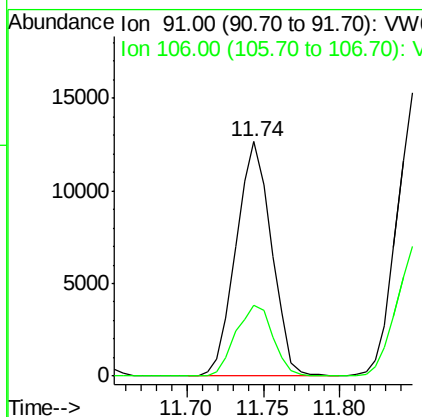
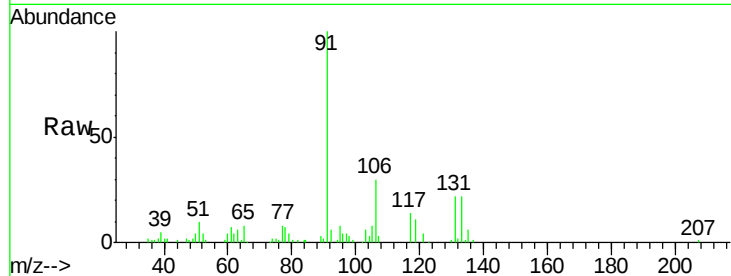
#67
Ethyl Benzene
Concen: 1.82 ug/l
RT: 11.74 min Scan# 1666
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tot Ion: 91 Resp: 20403
Ion Ratio Lower Upper
91 100
106 30.0 25.1 37.7

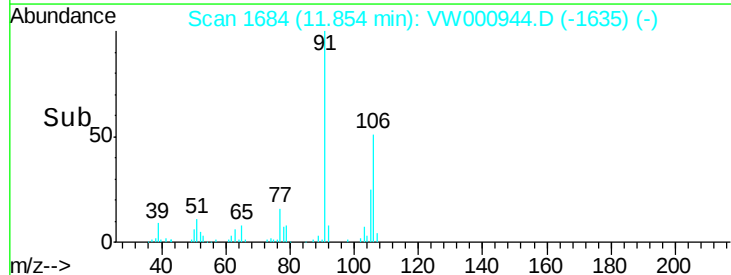
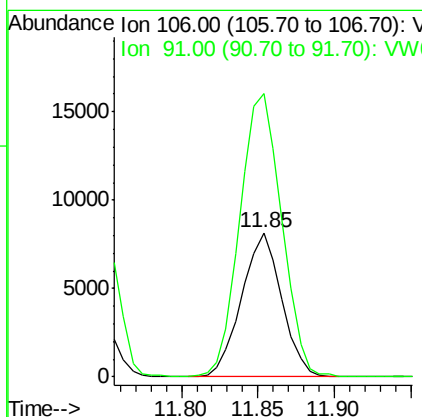
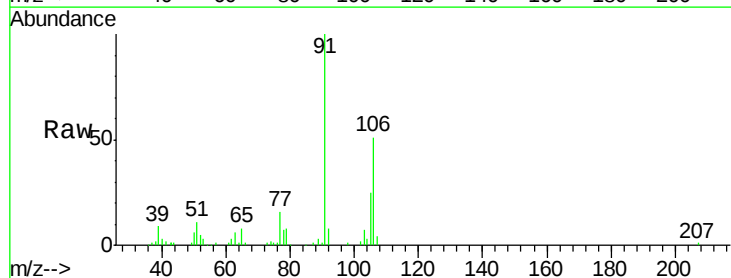
Manual Integrations
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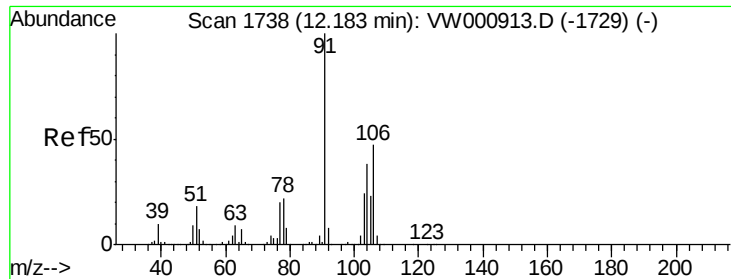
MMDadoda
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#68
m/p-Xylenes
Concen: 3.41 ug/l
RT: 11.85 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion: 106 Resp: 14839
Ion Ratio Lower Upper
106 100
91 205.4 161.9 242.9





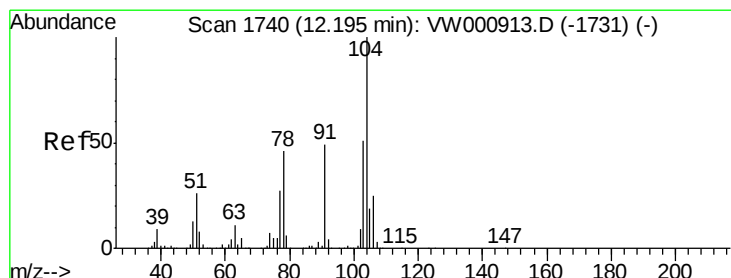
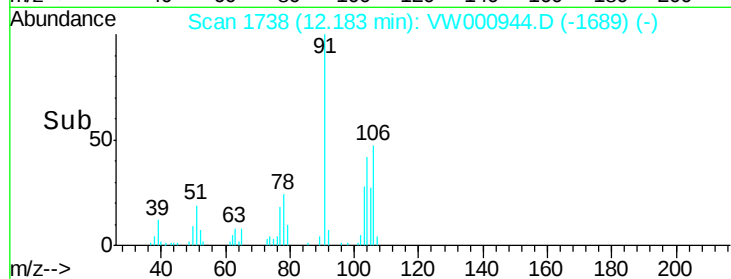
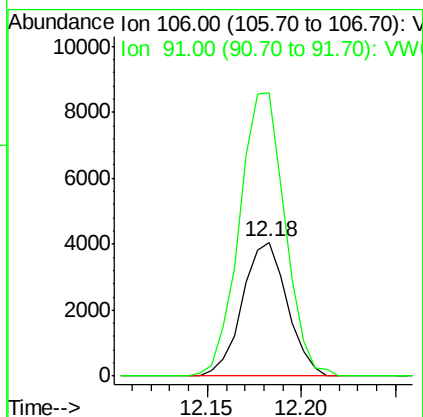
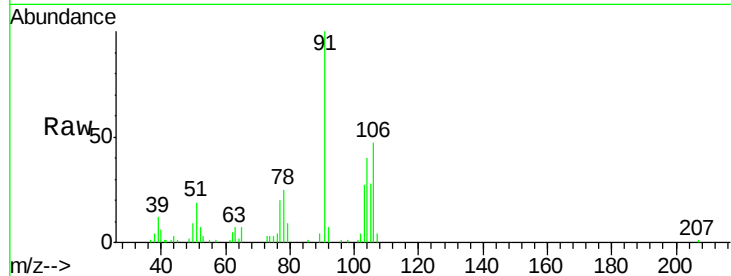
#69
o-Xylene
Concen: 1.68 ug/l
RT: 12.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tot Ion:106 Resp: 6698
Ion Ratio Lower Upper
106 100
91 214.4 106.3 318.8

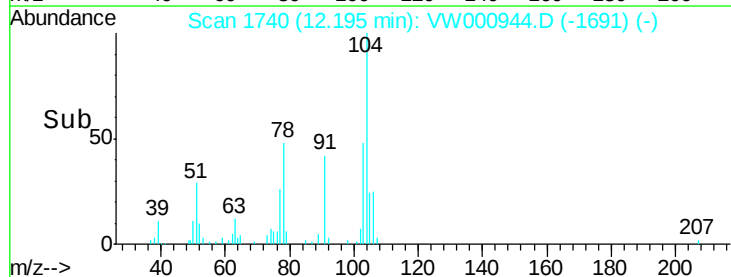
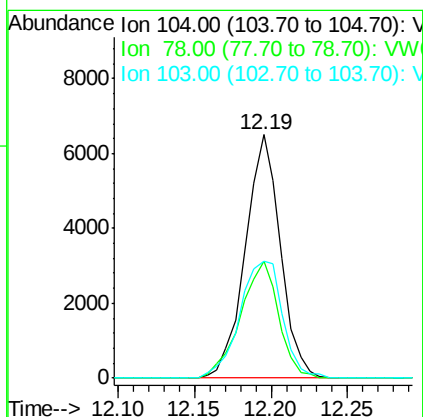
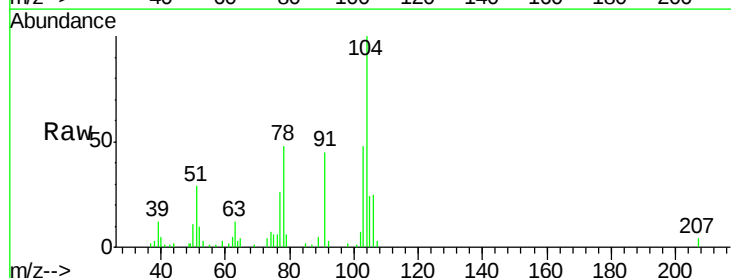
Manual Integrations
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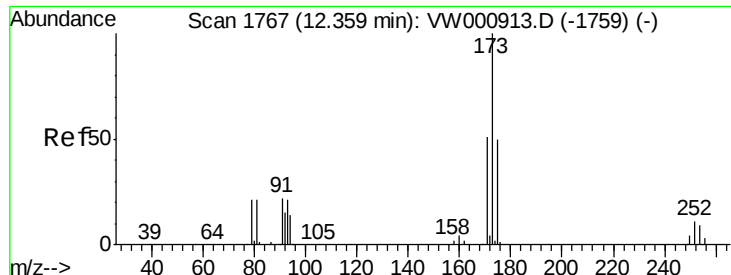
MMDadoda
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#70
Styrene
Concen: 1.59 ug/l
RT: 12.19 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion:104 Resp: 10335
Ion Ratio Lower Upper
104 100
78 52.3 40.1 60.1
103 59.2 44.6 66.8





#71

Bromoform

Concen: 1.68 ug/l

RT: 12.37 min Scan# 1768

Delta R.T. 0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

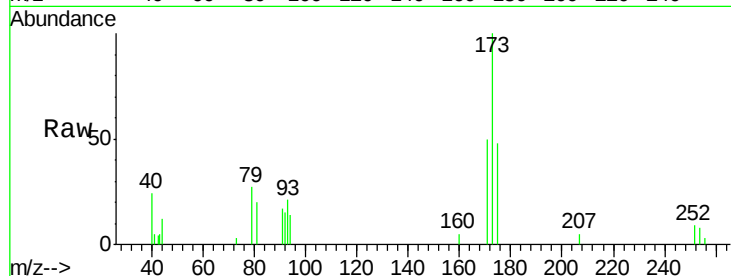
ClientSampleId :

MDL-SOIL-03-QT1-2018

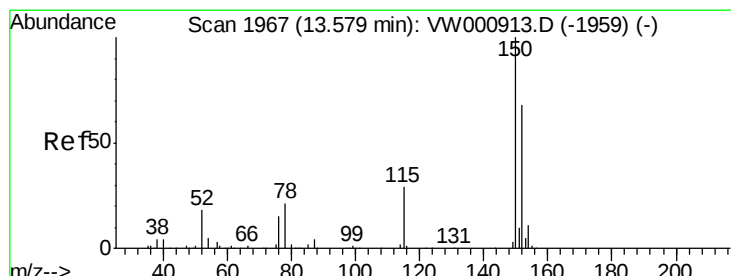
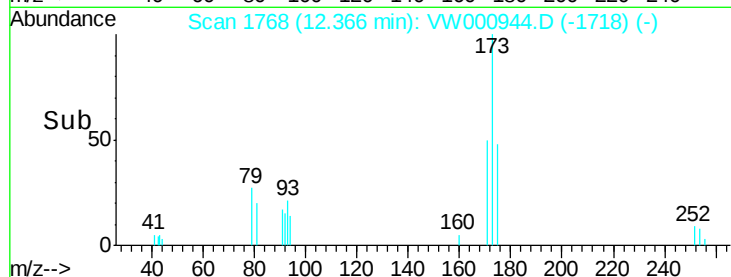
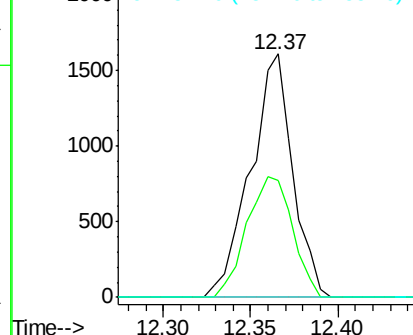
Tot Ion	Ratio	Lower	Upper
173	100		
175	53.6	24.7	74.1
254	0.0	0.2	0.2

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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: 50.00 ug/l

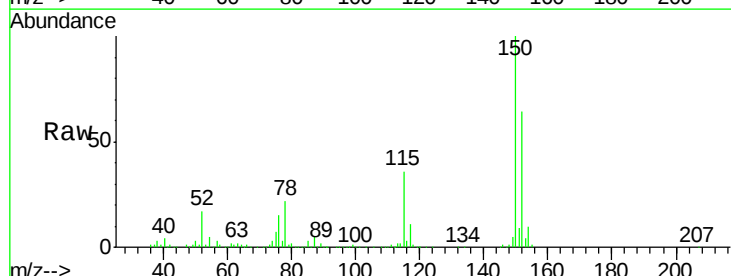
RT: 13.58 min Scan# 1967

Delta R.T. 0.00 min

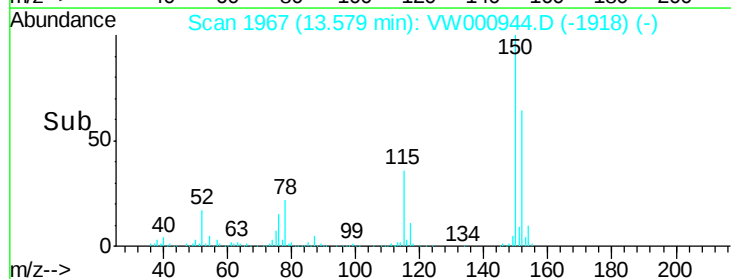
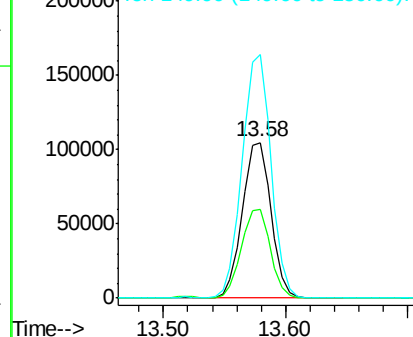
Lab File: VW000944.D

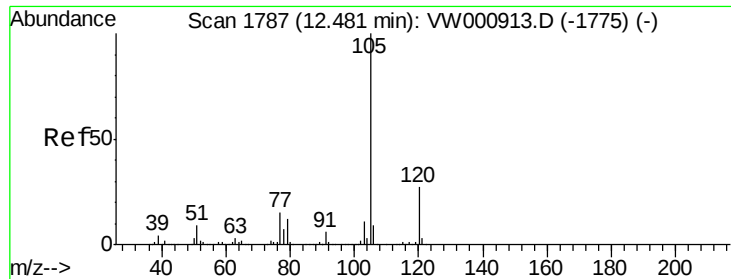
Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.4	28.5	85.5
150	157.4	0.0	342.0



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: 1.72 ug/l

RT: 12.48 min Scan# 1787

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

Tot Ion: 105 Resp: 18884

Ion Ratio Lower Upper

105 100

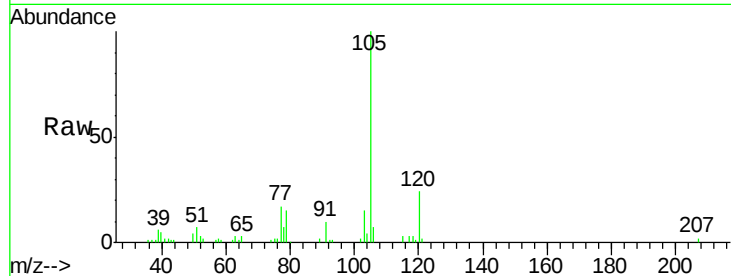
120 25.8 13.3 39.9

Manual Integrations

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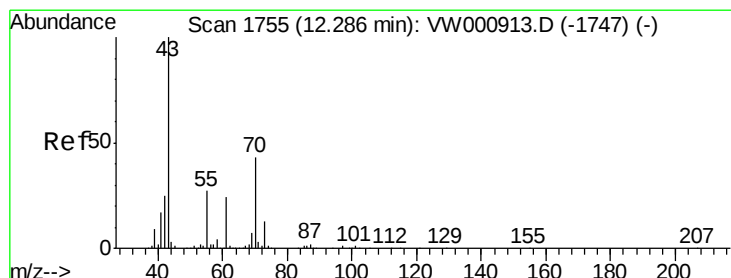
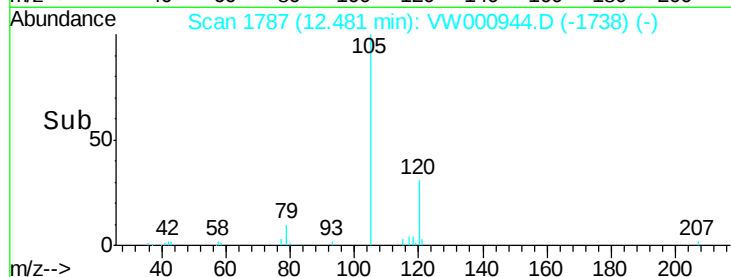
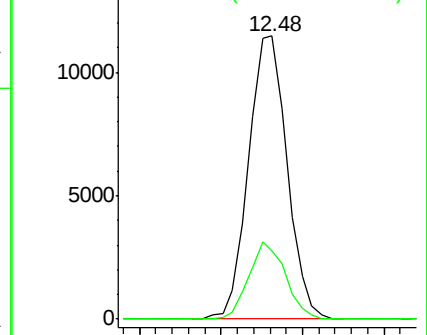
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 1.56 ug/l

RT: 12.29 min Scan# 1755

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Tgt Ion: 43 Resp: 4165

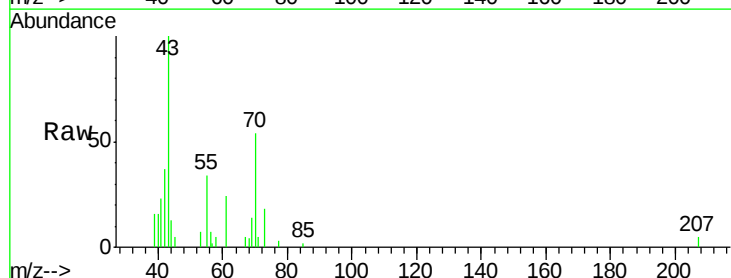
Ion Ratio Lower Upper

43 100

70 43.6 35.8 53.8

55 30.0 21.4 32.2

61 23.9 19.5 29.3

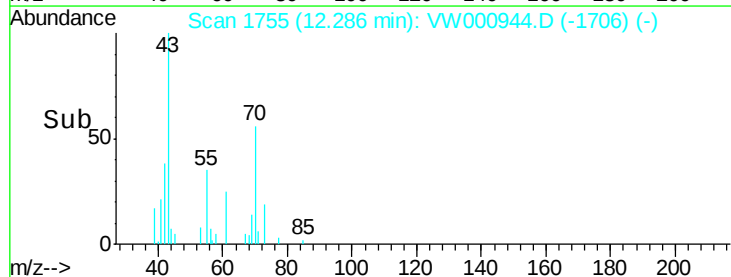
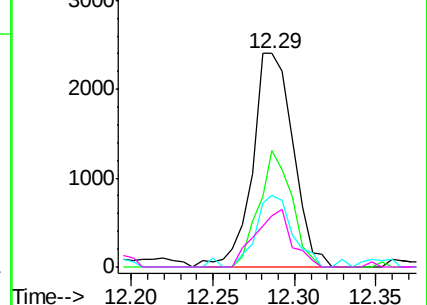


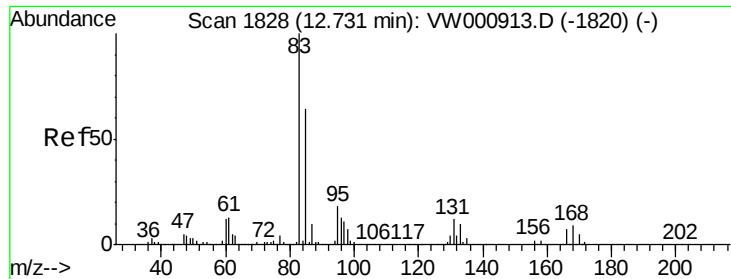
Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW





#75

1,1,2,2-Tetrachloroethane

Concen: 1.78 ug/l

RT: 12.73 min Scan# 1827

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

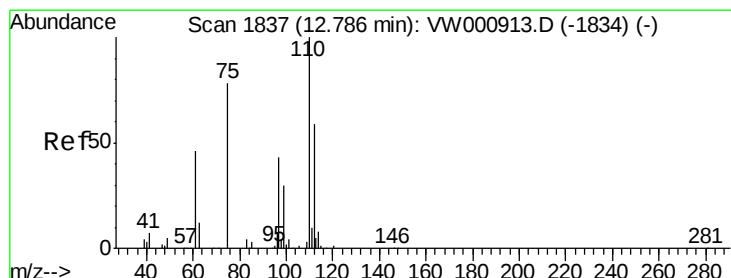
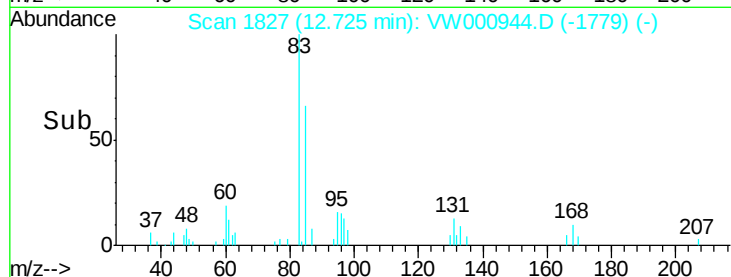
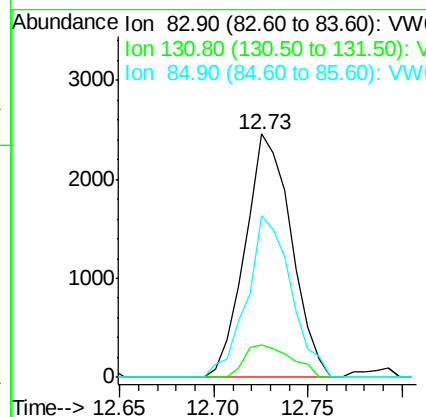
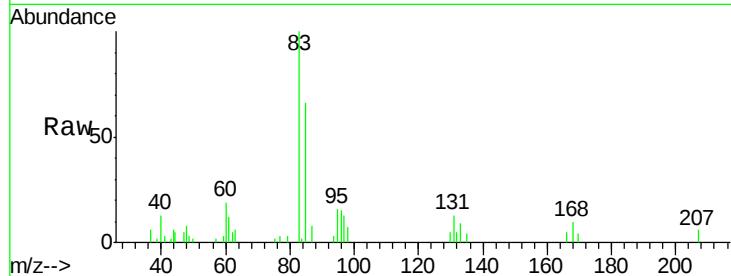
ClientSampleId :

MDL-SOIL-03-QT1-2018

Tot Ion:	83	Resp:	4181
Ion Ratio	Lower	Upper	
83	100		
131	13.4	5.9	17.7
85	63.3	32.6	97.7

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#76

1,2,3-Trichloropropane

Concen: 1.81 ug/l m

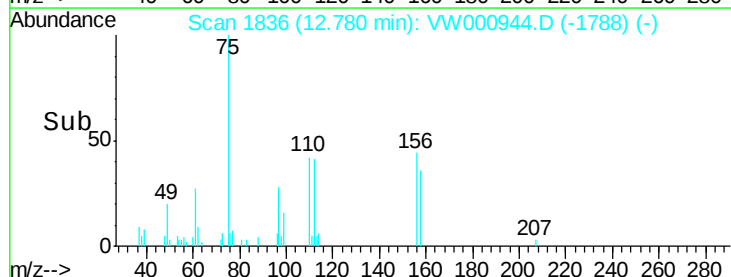
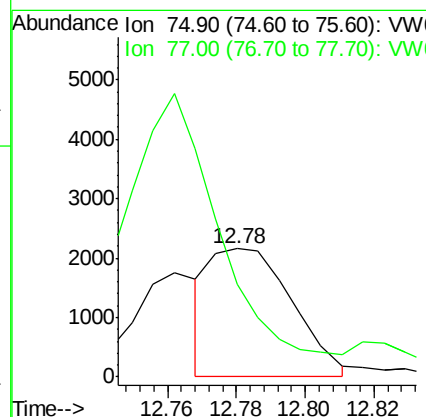
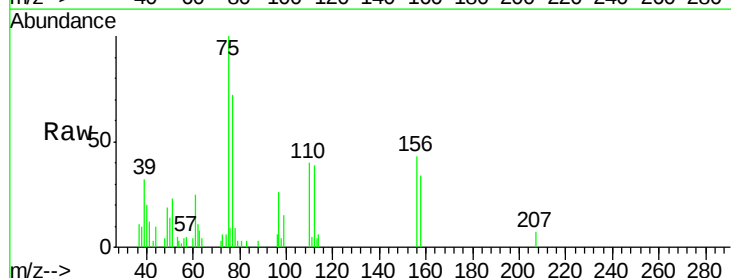
RT: 12.78 min Scan# 1836

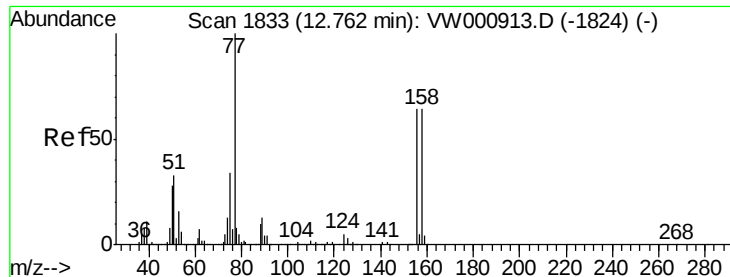
Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Tgt Ion:	75	Resp:	3562
Ion Ratio	Lower	Upper	
75	100		
77	267.5	0.0	0.0#





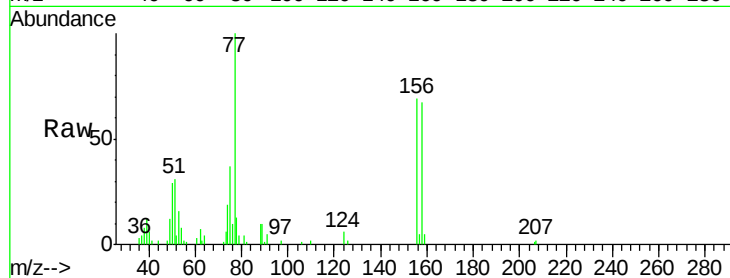
#77
Bromobenzene
Concen: 1.97 ug/l
RT: 12.76 min Scan# 1833
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

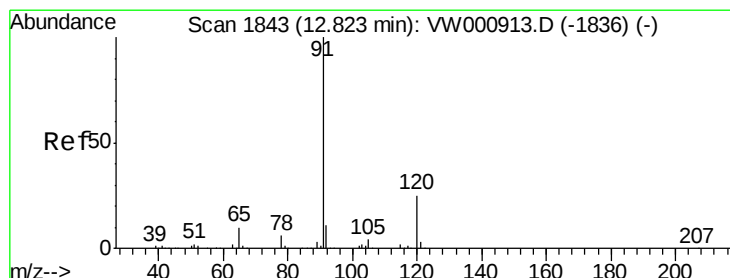
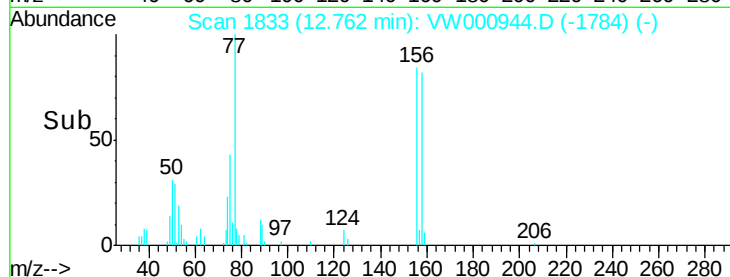
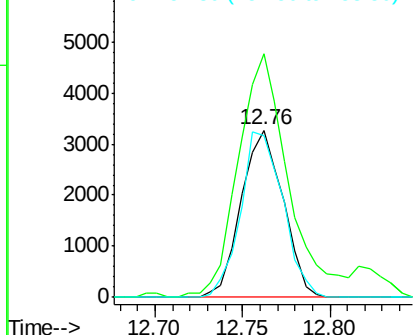
Tot Ion	Ratio	Lower	Upper
156	100		
77	173.0	89.0	267.1
158	99.7	48.9	146.8

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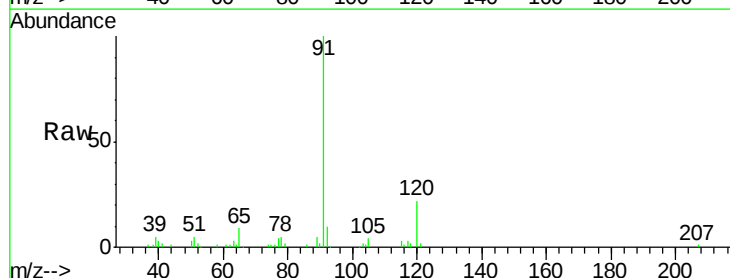


Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VW
Ion 157.80 (157.50 to 158.50): V

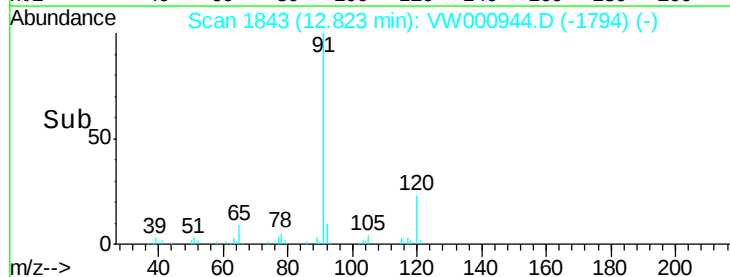
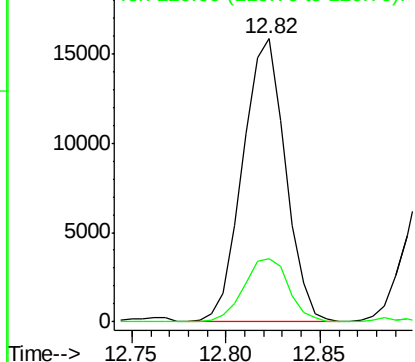


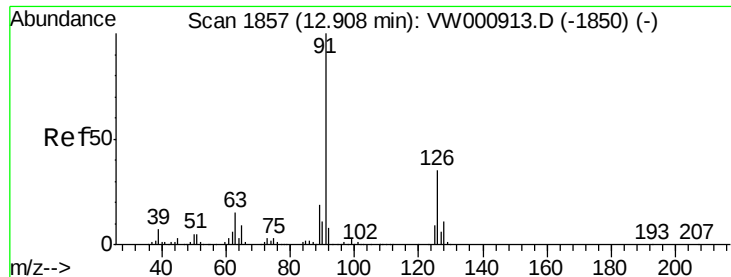
#78
n-propylbenzene
Concen: 1.88 ug/l
RT: 12.82 min Scan# 1843
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.4	12.0	36.1



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 120.00 (119.70 to 120.70): V





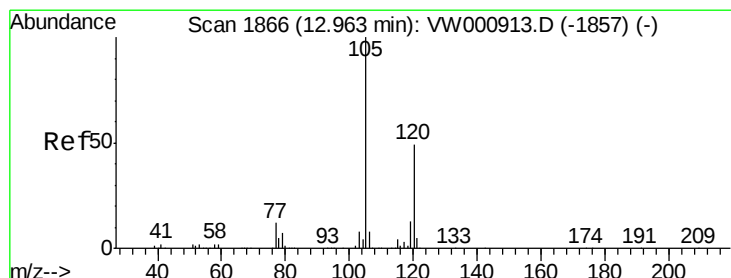
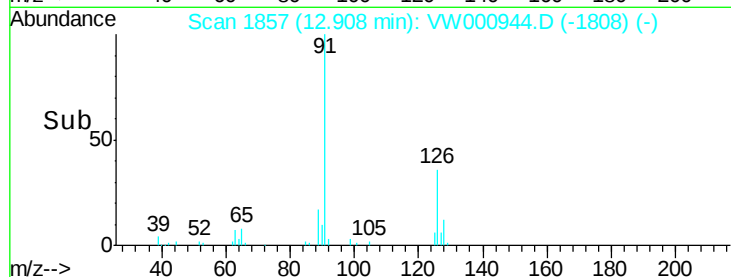
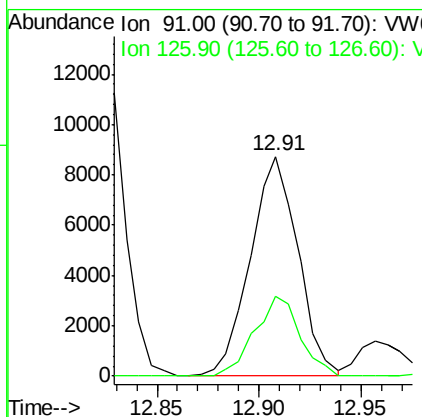
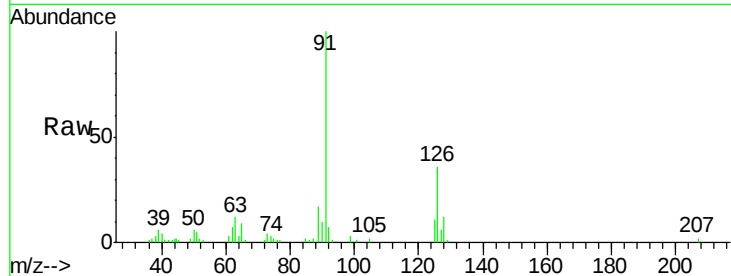
#79
 2-Chlorotoluene
 Concen: 1.90 ug/l
 RT: 12.91 min Scan# 1857
 Delta R.T. 0.00 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2018

Tot Ion: 91 Resp: 14238
 Ion Ratio Lower Upper
 91 100
 126 34.4 17.6 52.8

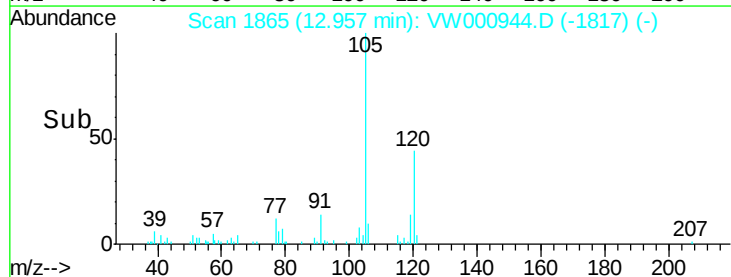
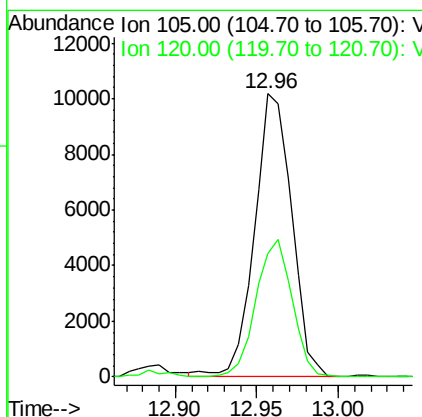
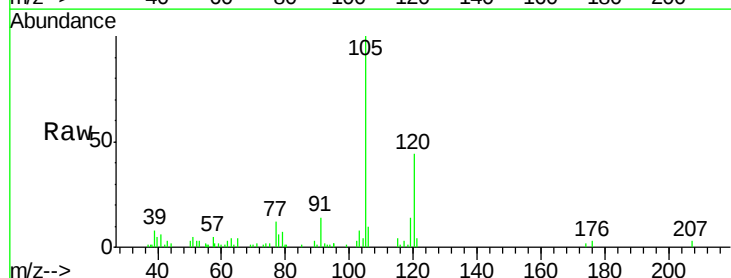
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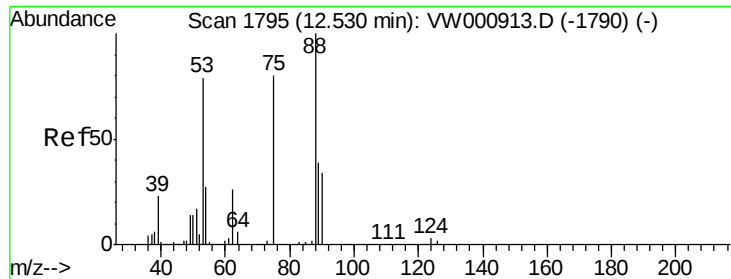
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#80
 1,3,5-Trimethylbenzene
 Concen: 1.73 ug/l
 RT: 12.96 min Scan# 1865
 Delta R.T. -0.01 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Tgt Ion:105 Resp: 16157
 Ion Ratio Lower Upper
 105 100
 120 47.2 24.3 72.9





#81

trans-1,4-Dichloro-2-butene

Concen: 5.53 ug/l m

RT: 12.52 min Scan# 1793

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

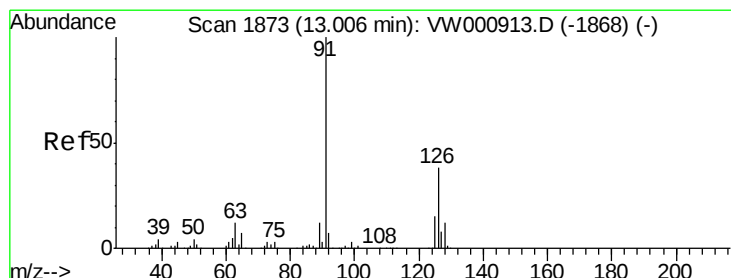
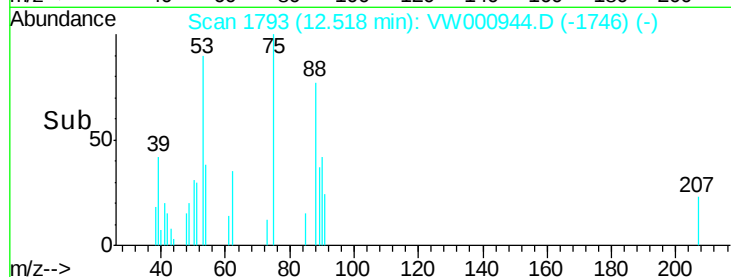
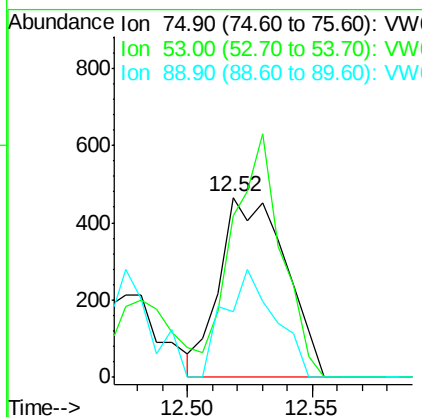
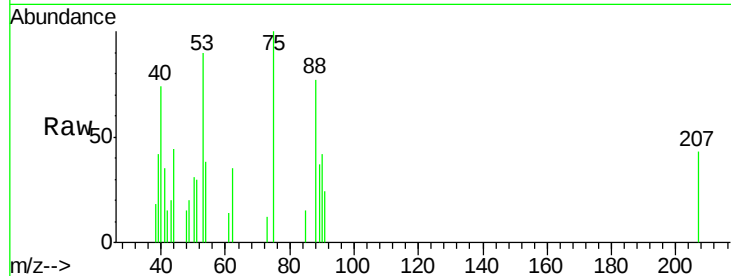
ClientSampleId :

MDL-SOIL-03-QT1-2018

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	77.5	116.3#
89	18.4	38.2	57.4#

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#82

4-Chlorotoluene

Concen: 1.91 ug/l

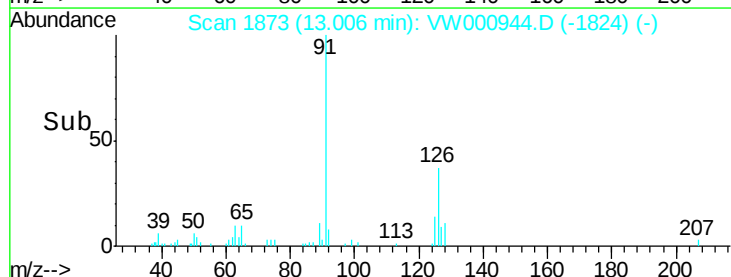
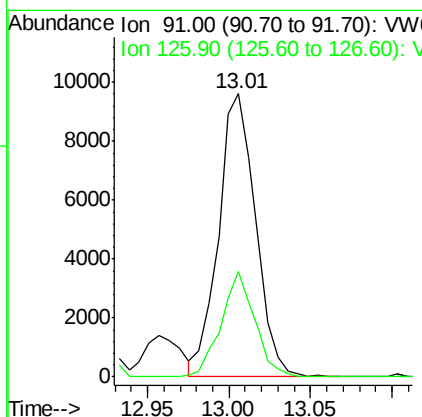
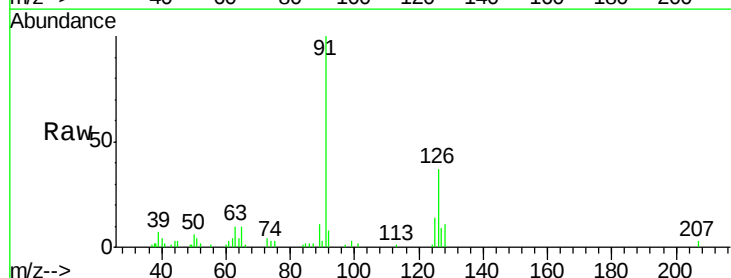
RT: 13.01 min Scan# 1873

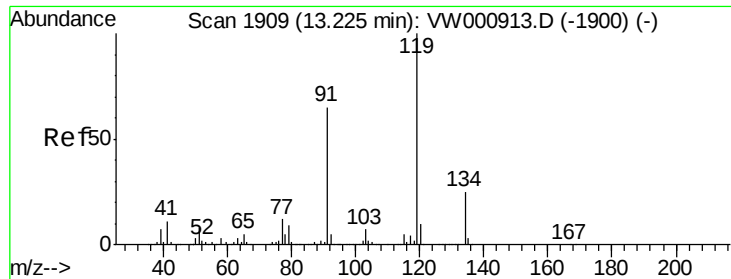
Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.0	17.6	52.9





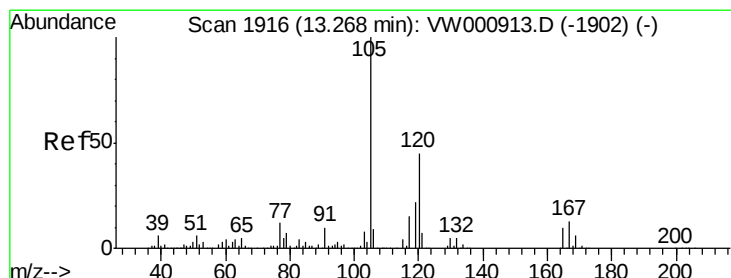
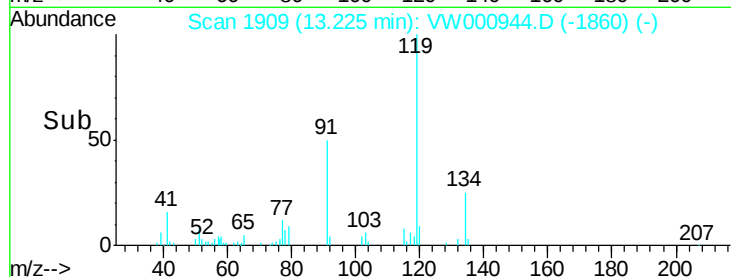
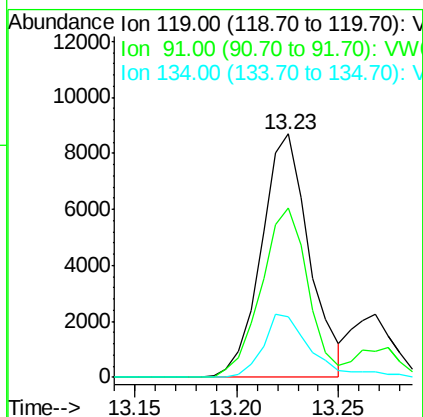
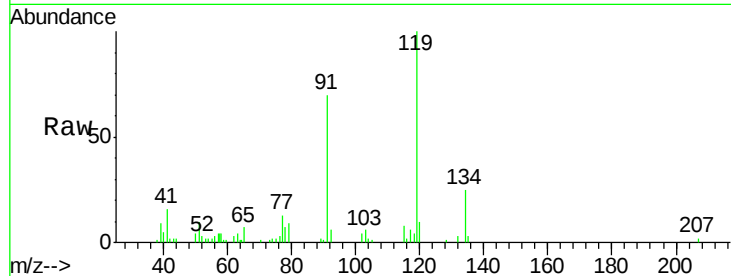
#83
tert-Butylbenzene
Concen: 1.73 ug/l
RT: 13.23 min Scan# 1909
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tot Ion	Ratio	Resp	Lower	Upper
119	100	14186		
91	67.9		32.4	97.0
134	26.4		13.1	39.3

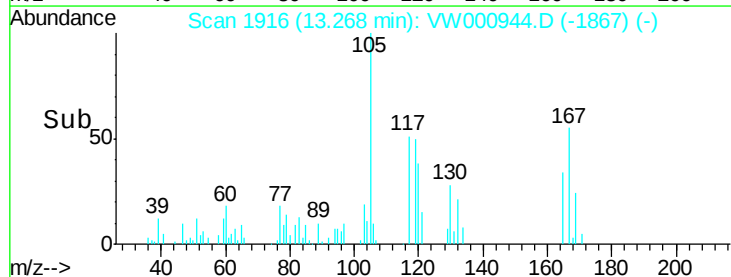
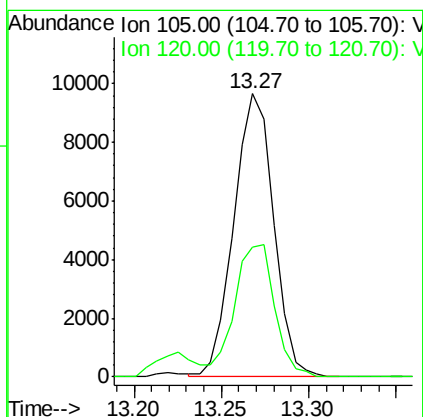
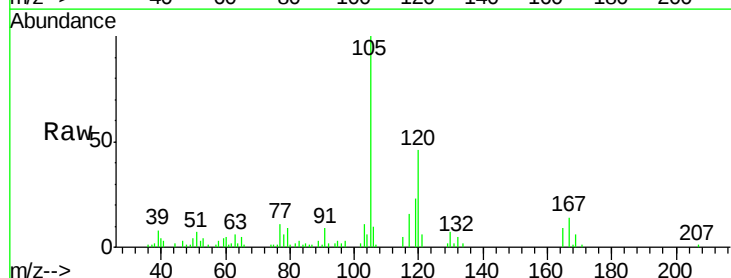
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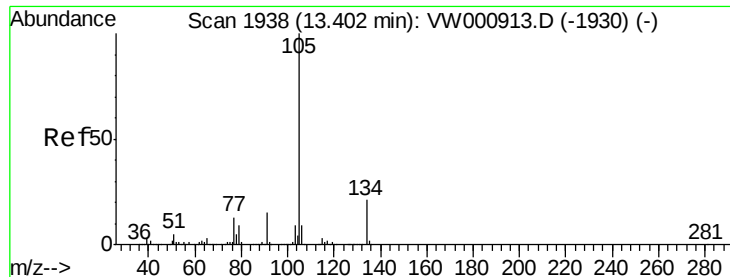
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#84
1,2,4-Trimethylbenzene
Concen: 1.62 ug/l
RT: 13.27 min Scan# 1916
Delta R.T. 0.00 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	15305		
120	47.5		22.4	67.0





#85

sec-Butylbenzene

Concen: 1.72 ug/l

RT: 13.40 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

ClientSampleId :

MDL-SOIL-03-QT1-2018

Tot Ion:105 Resp: 20265

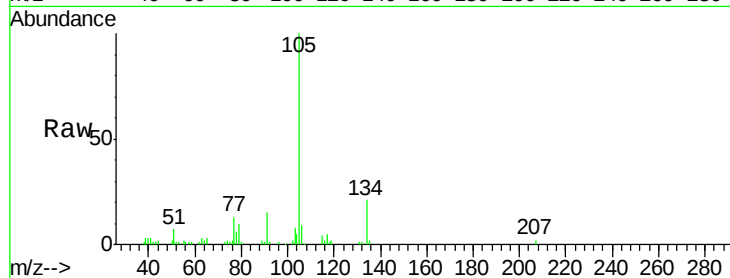
Ion Ratio Lower Upper

105 100

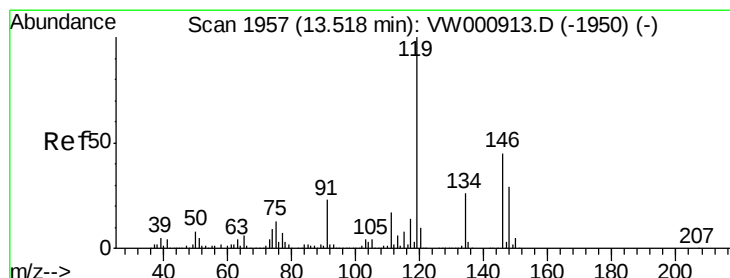
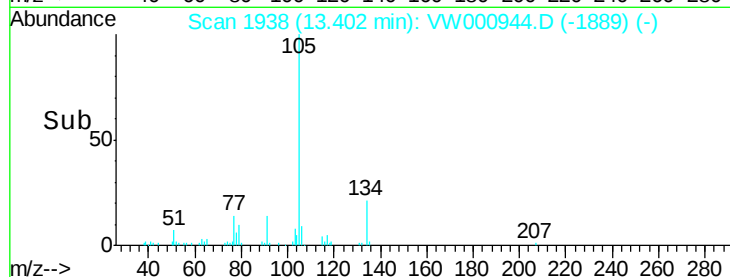
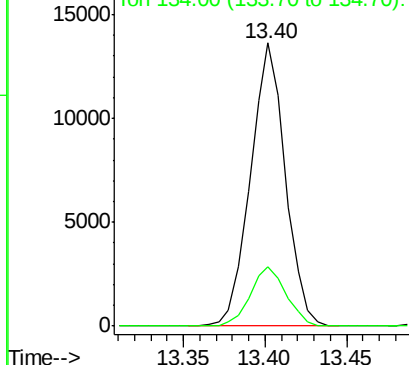
134 21.5 10.3 30.9

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Abundance Ion 105.00 (104.70 to 105.70): V
Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 1.60 ug/l

RT: 13.52 min Scan# 1957

Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

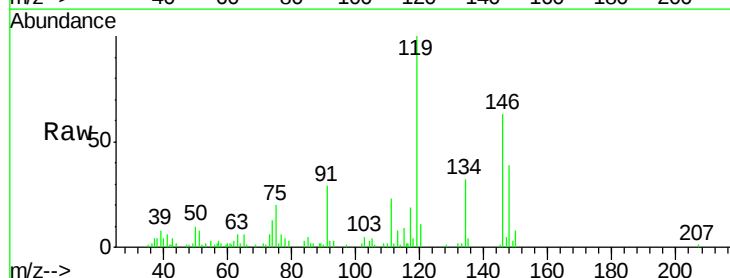
Tgt Ion:119 Resp: 16782

Ion Ratio Lower Upper

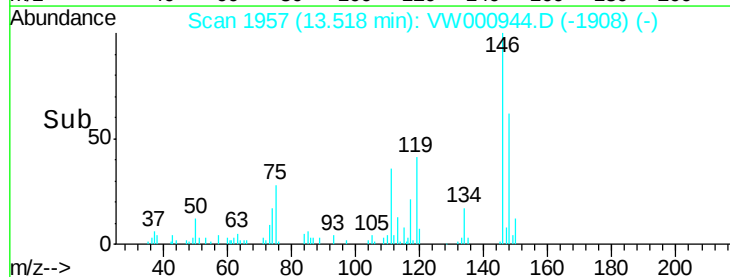
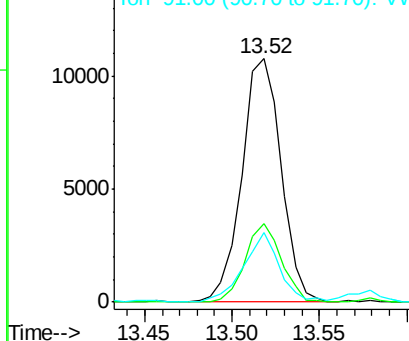
119 100

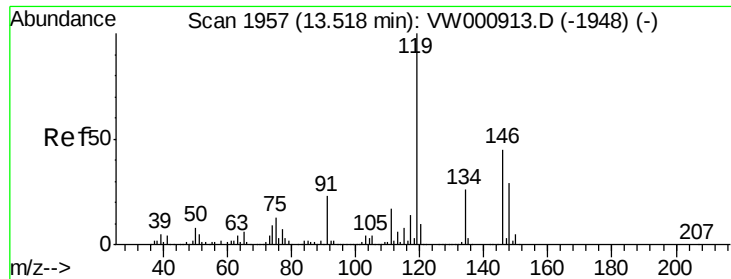
134 29.4 13.2 39.6

91 26.4 11.7 35.0



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 1.98 ug/l

RT: 13.51 min Scan# 1956

Delta R.T. -0.01 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Instrument :

MSVOA_W

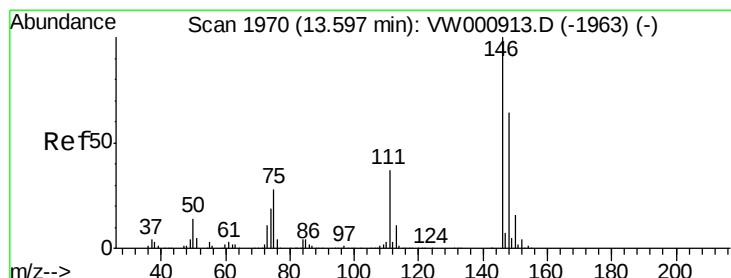
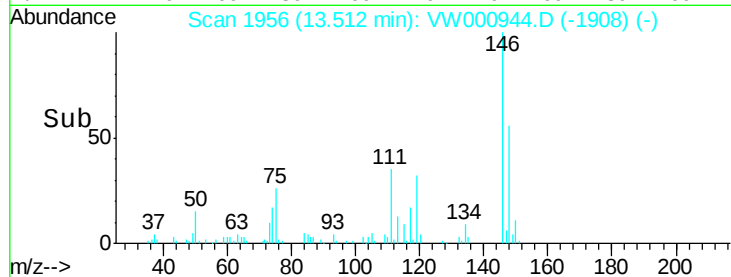
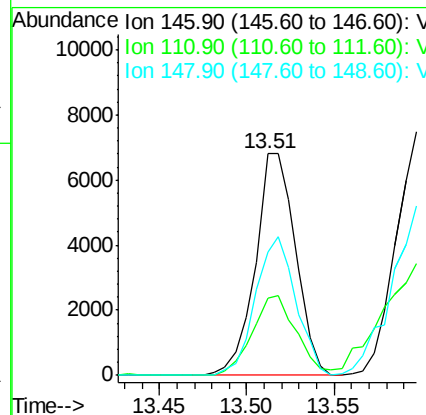
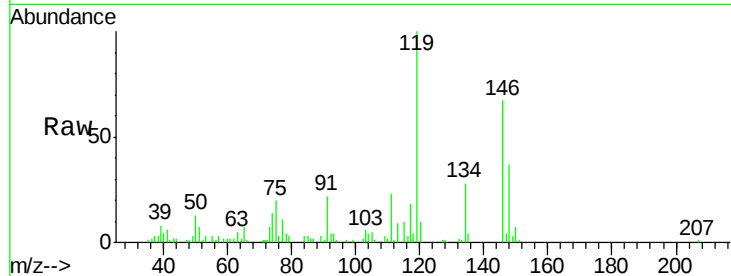
ClientSampleId :

MDL-SOIL-03-QT1-2018

Tot Ion:	146	Resp:	10980
Ion	Ratio	Lower	Upper
146	100		
111	39.2	19.7	59.0
148	62.7	32.4	97.0

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#88

1,4-Dichlorobenzene

Concen: 2.03 ug/l

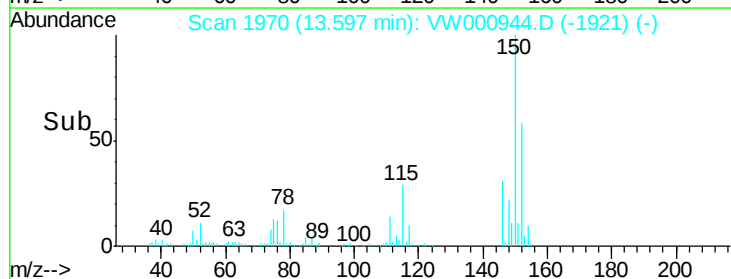
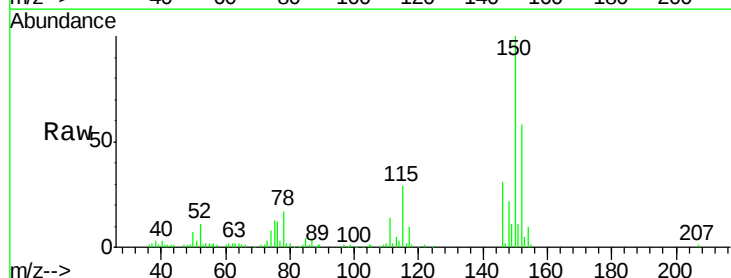
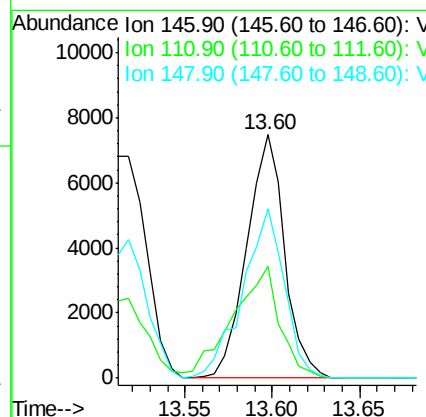
RT: 13.60 min Scan# 1970

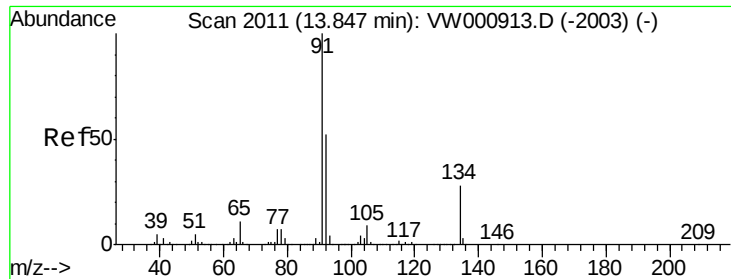
Delta R.T. 0.00 min

Lab File: VW000944.D

Acq: 24 Jan 2018 13:10

Tgt Ion:	146	Resp:	11277
Ion	Ratio	Lower	Upper
146	100		
111	56.9	19.0	57.0
148	76.8	32.4	97.2





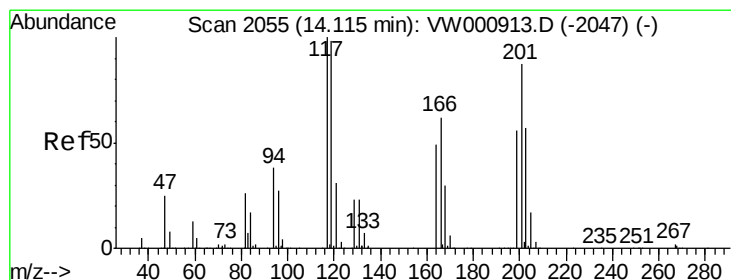
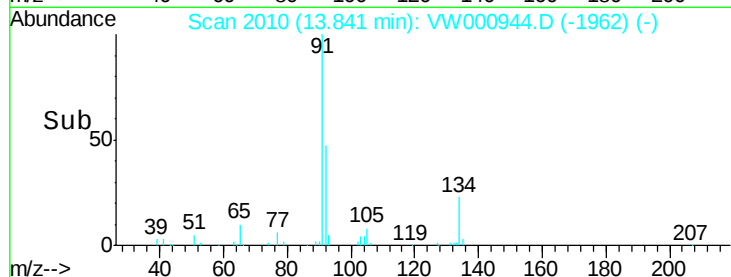
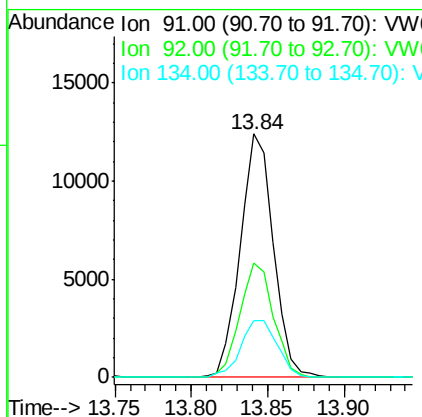
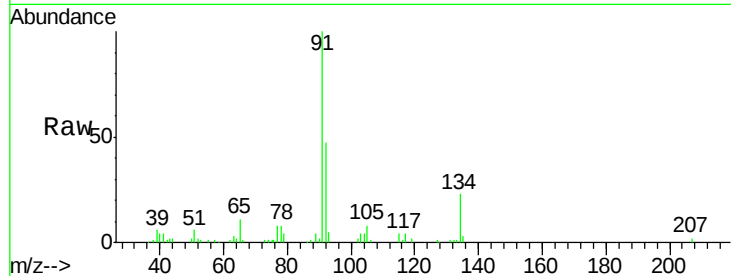
#89
n-Butylbenzene
Concen: 1.89 ug/l
RT: 13.84 min Scan# 2010
Delta R.T. -0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tot Ion	Ratio	Lower	Upper
91	100		
92	47.6	26.2	78.6
134	25.7	13.7	41.1

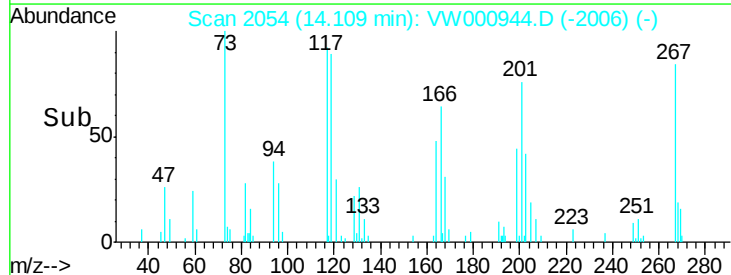
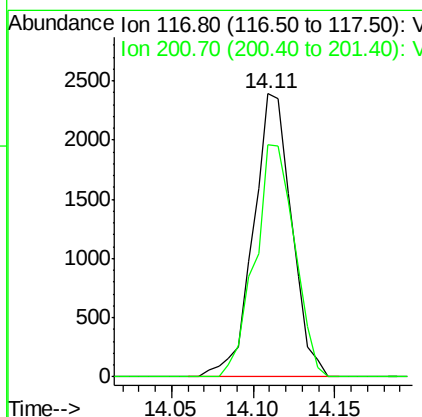
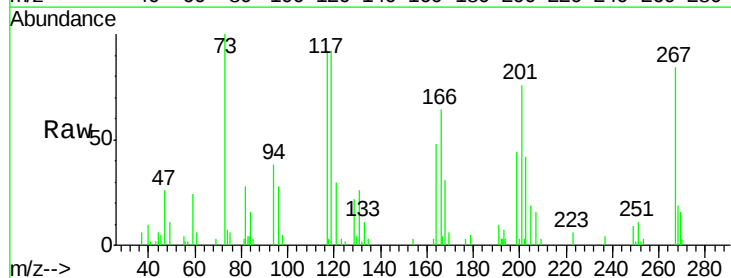
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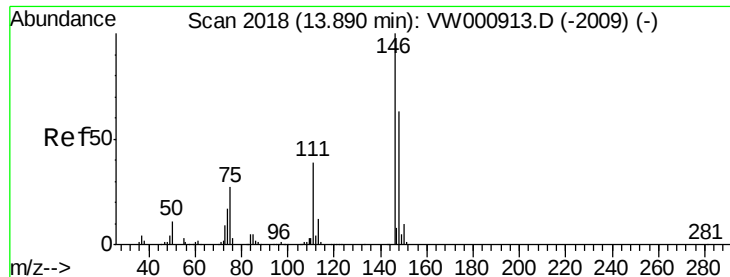
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#90
Hexachloroethane
Concen: 2.00 ug/l
RT: 14.11 min Scan# 2054
Delta R.T. -0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Lower	Upper
117	100		
201	85.1	42.8	128.3





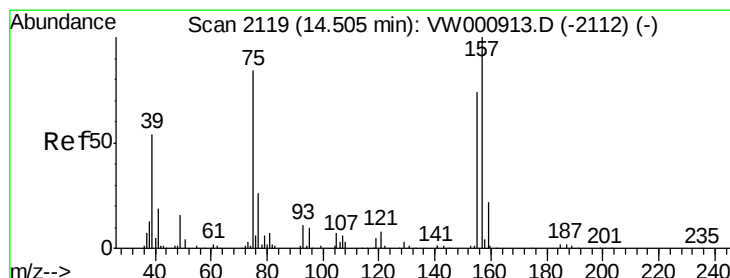
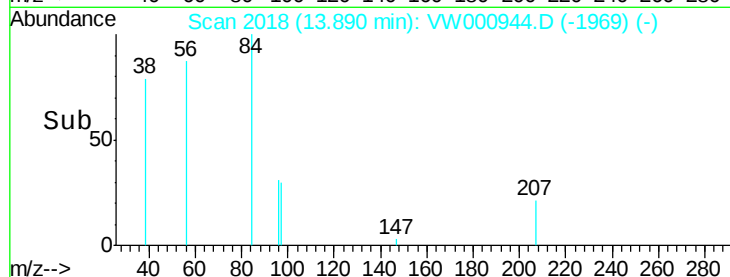
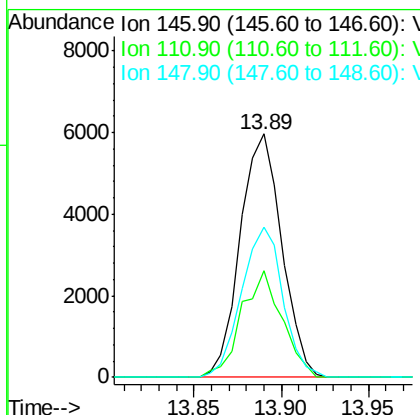
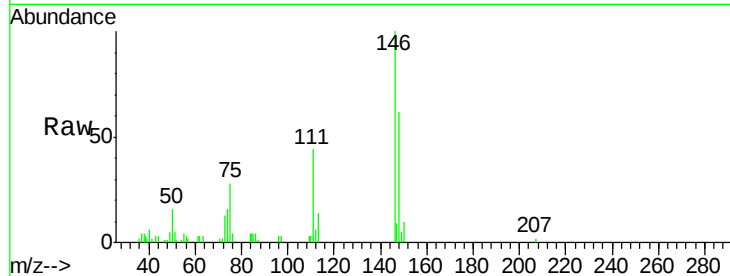
#91
 1,2-Dichlorobenzene
 Concen: 1.97 ug/l
 RT: 13.89 min Scan# 2018
 Delta R.T. 0.00 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2018

Tot Ion	Ratio	Lower	Upper
146	100		
111	42.7	19.8	59.4
148	61.3	31.8	95.3

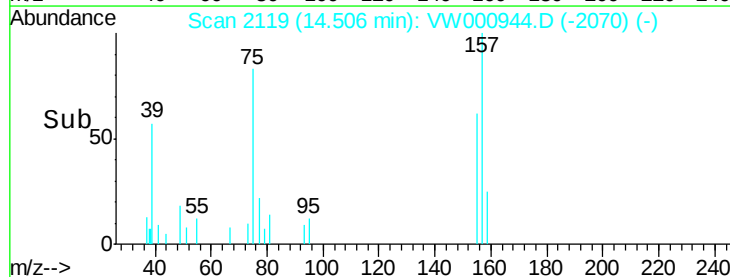
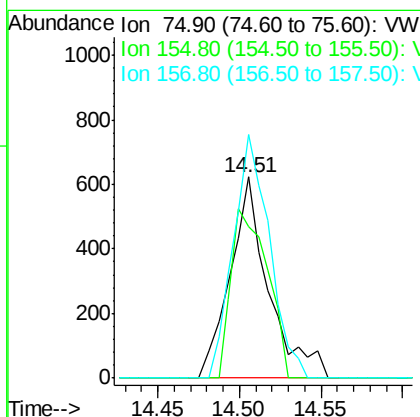
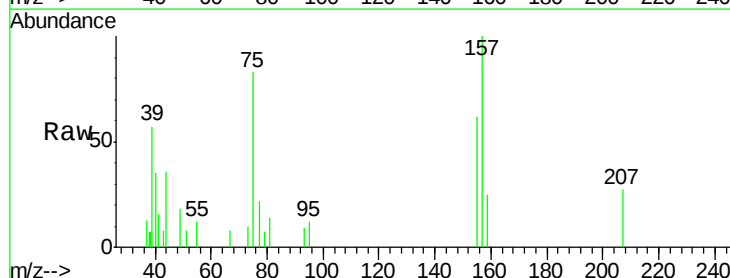
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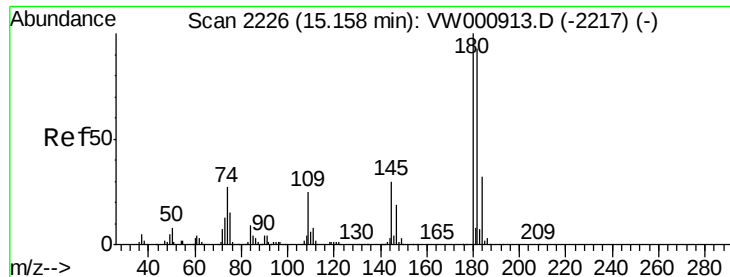
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.96 ug/l
 RT: 14.51 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Lower	Upper
75	100		
155	80.2	45.9	137.6
157	114.7	59.8	179.3





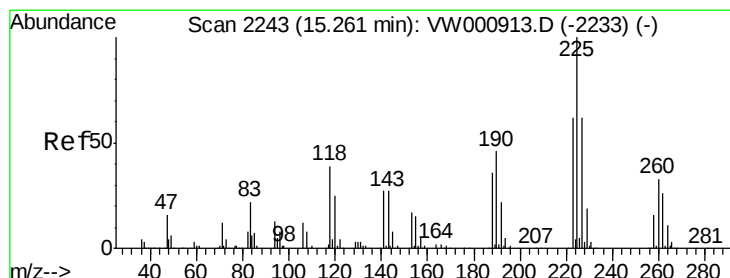
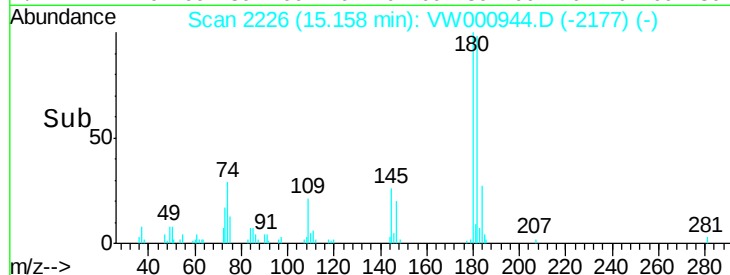
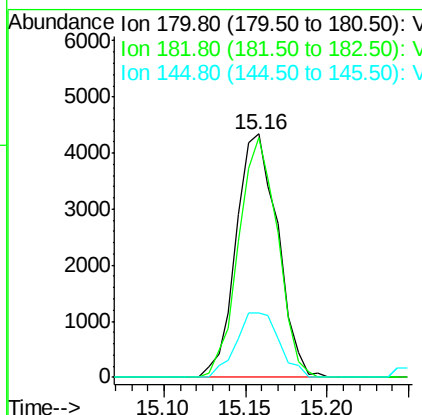
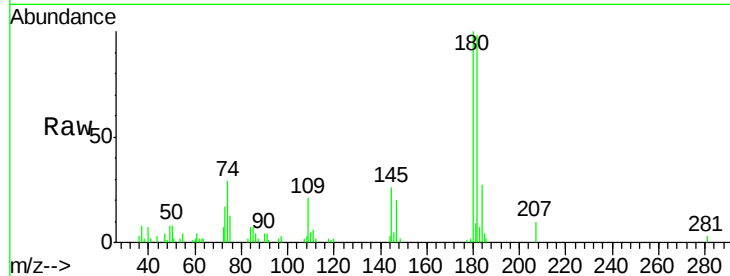
#93
 1,2,4-Trichlorobenzene
 Concen: 2.07 ug/l
 RT: 15.16 min Scan# 2226
 Delta R.T. 0.00 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Instrument :
 MSVOA_W
 ClientSampleId :
 MDL-SOIL-03-QT1-2018

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.4	47.5	142.6
145	27.4	14.9	44.7

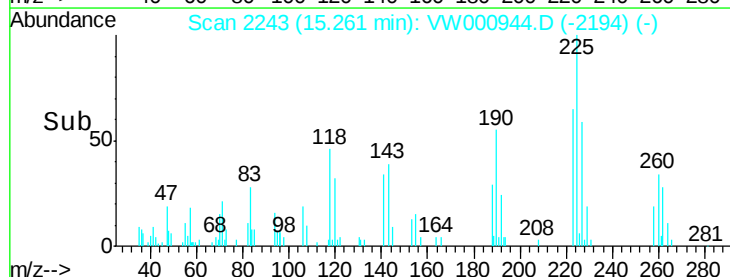
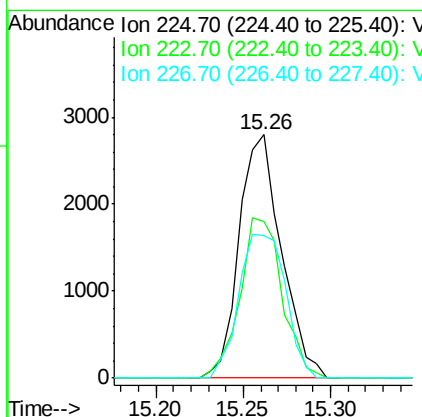
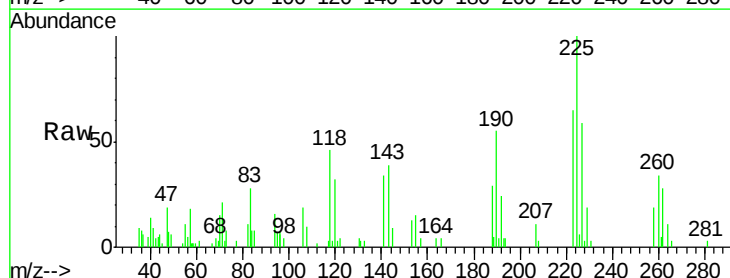
Manual Integrations
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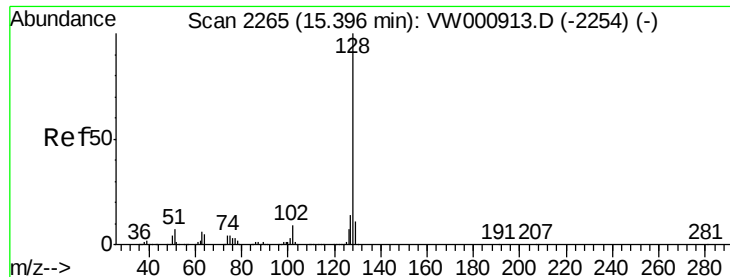
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#94
 Hexachlorobutadiene
 Concen: 1.99 ug/l
 RT: 15.26 min Scan# 2243
 Delta R.T. 0.00 min
 Lab File: VW000944.D
 Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.9	31.3	93.8
227	65.6	31.8	95.3





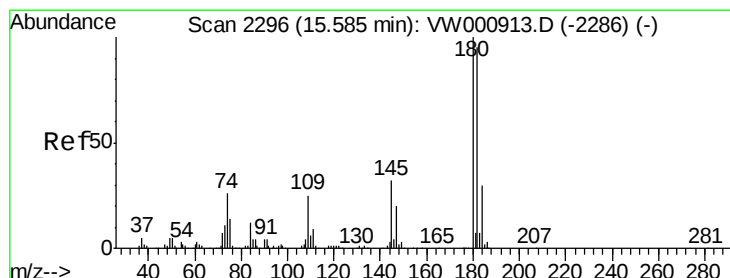
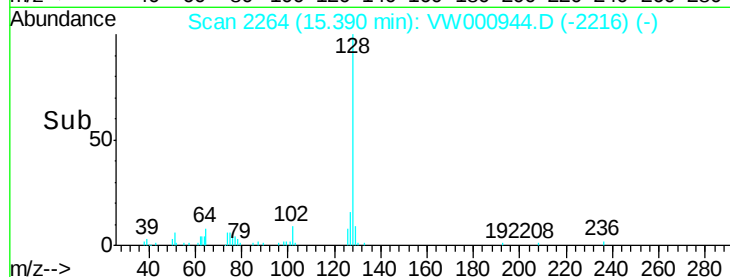
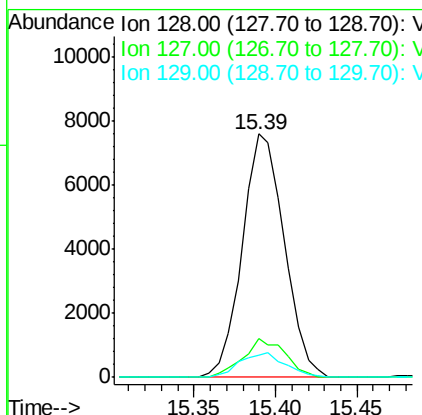
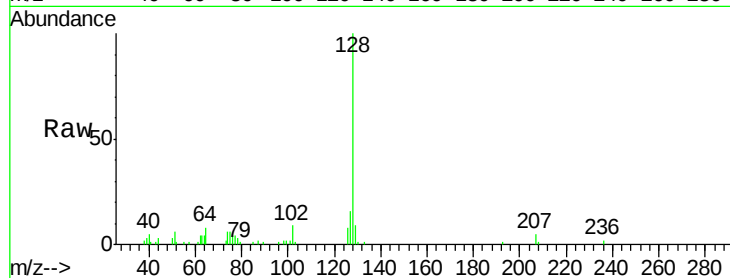
#95
Naphthalene
Concen: 1.73 ug/l
RT: 15.39 min Scan# 2264
Delta R.T. -0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Instrument :
MSVOA_W
ClientSampleId :
MDL-SOIL-03-QT1-2018

Tot Ion	Ratio	Lower	Upper
128	100		
127	16.0	10.6	15.8#
129	10.7	8.7	13.1

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 1.94 ug/l
RT: 15.58 min Scan# 2295
Delta R.T. -0.01 min
Lab File: VW000944.D
Acq: 24 Jan 2018 13:10

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.7	47.4	142.3
145	30.1	15.8	47.3

