

Data Path : W:\HPCHEM1\MSVOA W\DATA\VW012418\
 Data File : VW000943.D
 Acq On : 24 Jan 2018 12:46
 Operator : JC/SY
 Sample : J1161-02 L00 10 PPB
 Misc : 5.0G/5.0ML/MSVOA W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2018

Manual Integrations
 APPROVED

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 1/25/2018 1:33:55 PM

Quant Time: Jan 25 04:30:49 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	243292	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	341060	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	310186	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	170336	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	120540	51.69	ug/l	0.00
Spiked Amount						
			Recovery	=	103.38%	
35) Dibromofluoromethane	7.88	113	100218	47.97	ug/l	0.00
Spiked Amount						
			Recovery	=	95.94%	
50) Toluene-d8	10.33	98	435734	52.90	ug/l	0.00
Spiked Amount						
			Recovery	=	105.80%	
62) 4-Bromofluorobenzene	12.63	95	154950	51.65	ug/l	0.00
Spiked Amount						
			Recovery	=	103.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.00	85	23979	10.22	ug/l	97
3) Chloromethane	2.22	50	23242	11.21	ug/l	100
4) Vinyl Chloride	2.36	62	19658	10.19	ug/l	99
5) Bromomethane	2.73	94	14336	9.97	ug/l	96
6) Chloroethane	2.89	64	10720	10.00	ug/l	95
7) Trichlorofluoromethane	3.25	101	36152	10.18	ug/l	91
8) Diethyl Ether	3.68	74	8903	10.01	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	4.04	101	25090	10.94	ug/l	99
10) Methyl Iodide	4.26	142	17111	11.21	ug/l	99
11) Tert butyl alcohol	5.20	59	12386m	48.98	ug/l	
12) 1,1-Dichloroethene	4.02	96	21261	10.78	ug/l	95
13) Acrolein	3.89	56	12873	52.14	ug/l	93
14) Allyl chloride	4.65	41	31476	10.25	ug/l	98
15) Acrylonitrile	5.37	53	38457	55.36	ug/l	100
16) Acetone	4.13	43	42079	56.40	ug/l #	86
17) Carbon Disulfide	4.36	76	65516	10.06	ug/l	96
18) Methyl Acetate	4.68	43	20453	11.92	ug/l	98
19) Methyl tert-butyl Ether	5.43	73	49661	9.81	ug/l	97
20) Methylene Chloride	4.91	84	27146	10.56	ug/l	91
21) trans-1,2-Dichloroethene	5.42	96	23510	10.26	ug/l	96
22) Diisopropyl ether	6.31	45	54398	9.89	ug/l	93
23) Vinyl Acetate	6.26	43	127589	37.34	ug/l	98
24) 1,1-Dichloroethane	6.21	63	37458	10.17	ug/l	97
25) 2-Butanone	7.18	43	52397	50.79	ug/l	99
26) 2,2-Dichloropropane	7.17	77	37783	10.14	ug/l	94
27) cis-1,2-Dichloroethene	7.17	96	24129	10.19	ug/l	97
28) Bromochloromethane	7.51	49	15777	10.20	ug/l	99
29) Tetrahydrofuran	7.53	42	31774	55.98	ug/l	99
30) Chloroform	7.68	83	40080	10.09	ug/l	95
31) Cyclohexane	7.95	56	39637	10.43	ug/l #	85
32) 1,1,1-Trichloroethane	7.87	97	39060	10.18	ug/l	99
36) 1,1-Dichloropropene	8.08	75	32842	10.09	ug/l	98
37) Ethyl Acetate	7.26	43	19824	10.79	ug/l	100
38) Carbon Tetrachloride	8.07	117	35428	9.87	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	38673	9.87	ug/l	92
40) Benzene	8.32	78	89117	10.07	ug/l	98
41) Methacrylonitrile	7.49	41	9955	9.66	ug/l #	91
42) 1,2-Dichloroethane	8.40	62	28034	10.28	ug/l	98
43) Isopropyl Acetate	8.43	43	32279	10.37	ug/l	99
44) Trichloroethene	9.09	130	27092	10.30	ug/l	98
45) 1,2-Dichloropropane	9.37	63	21232	10.28	ug/l	94
46) Dibromomethane	9.46	93	13048	9.89	ug/l	98
47) Bromodichloromethane	9.65	83	29020	9.95	ug/l	97
48) Methyl methacrylate	9.44	41	14494	9.69	ug/l	94
49) 1,4-Dioxane	9.45	88	6617	229.53	ug/l	98
51) 4-Methyl-2-Pentanone	10.22	43	93787	52.34	ug/l	100
52) Toluene	10.40	92	57664	10.32	ug/l	100
53) t-1,3-Dichloropropene	10.62	75	28146	9.52	ug/l	99
54) cis-1,3-Dichloropropene	10.08	75	30611	9.42	ug/l	99
55) 1,1,2-Trichloroethane	10.80	97	18945	10.29	ug/l	96
56) Ethyl methacrylate	10.66	69	21412	11.35	ug/l	96
57) 1,3-Dichloropropane	10.94	76	31503	10.47	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.93	63	36636	49.26	ug/l	100
59) 2-Hexanone	10.98	43	67893	55.24	ug/l	99
60) Dibromochloromethane	11.14	129	22594	10.16	ug/l	98
61) 1,2-Dibromoethane	11.24	107	19255	10.03	ug/l	97
64) Tetrachloroethene	10.87	164	28138	10.93	ug/l	97
65) Chlorobenzene	11.67	112	64688	10.16	ug/l	93
66) 1,1,1,2-Tetrachloroethane	11.74	131	23041	10.08	ug/l	99
67) Ethyl Benzene	11.74	91	107572	10.01	ug/l	98
68) m/p-Xylenes	11.85	106	83037	19.87	ug/l	99
69) o-Xylene	12.18	106	36805	9.61	ug/l	100
70) Styrene	12.20	104	61001	9.77	ug/l	98
71) Bromoform	12.36	173	15131	9.76	ug/l #	98
73) Isopropylbenzene	12.48	105	105334	9.57	ug/l	99
74) N-amyl acetate	12.29	43	27188	10.17	ug/l	97
75) 1,1,2,2-Tetrachloroethane	12.73	83	24731	10.51	ug/l	97
76) 1,2,3-Trichloropropane	12.79	75	19550m	9.92	ug/l	
77) Bromobenzene	12.76	156	27456	9.80	ug/l	94
78) n-propylbenzene	12.82	91	132535	9.98	ug/l	99
79) 2-Chlorotoluene	12.91	91	75508	10.08	ug/l	99
80) 1,3,5-Trimethylbenzene	12.96	105	92303	9.86	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.53	75	5303	10.67	ug/l	90
82) 4-Chlorotoluene	13.01	91	81359	10.22	ug/l	99
83) tert-Butylbenzene	13.23	119	79123	9.64	ug/l	98
84) 1,2,4-Trimethylbenzene	13.27	105	93076	9.83	ug/l	100
85) sec-Butylbenzene	13.40	105	116780	9.86	ug/l	100
86) p-Isopropyltoluene	13.52	119	102545	9.76	ug/l	99
87) 1,3-Dichlorobenzene	13.52	146	57403	10.33	ug/l	98
88) 1,4-Dichlorobenzene	13.60	146	56502	10.17	ug/l	96
89) n-Butylbenzene	13.84	91	94062	9.54	ug/l	98
90) Hexachloroethane	14.11	117	18857	9.66	ug/l	97
91) 1,2-Dichlorobenzene	13.89	146	52778	10.55	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.51	75	5543	10.68	ug/l	91

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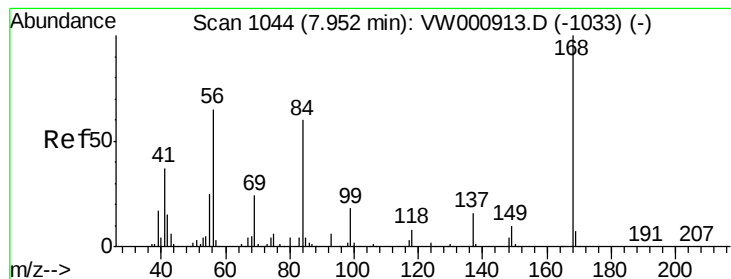
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.16	180	37305	10.00	ug/l	99
94) Hexachlorobutadiene	15.26	225	24293	10.28	ug/l	98
95) Naphthalene	15.39	128	73325	9.32	ug/l	99
96) 1,2,3-Trichlorobenzene	15.58	180	33981	9.91	ug/l	99

(#) = 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: VW000943.D

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Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion:168 Resp: 243292

Ion Ratio Lower Upper

168 100

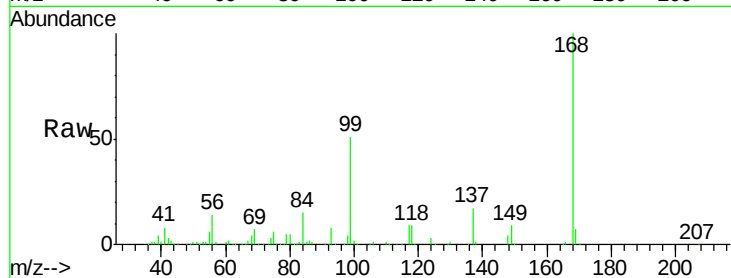
99 51.0 40.6 61.0

Manual Integrations

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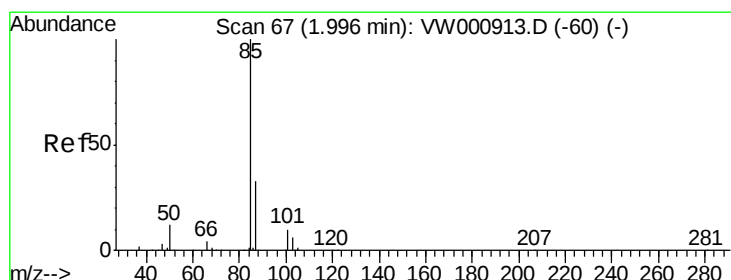
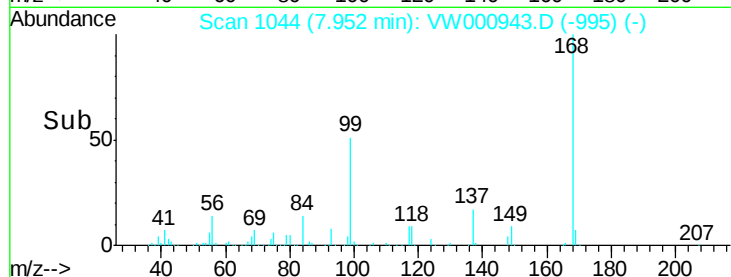
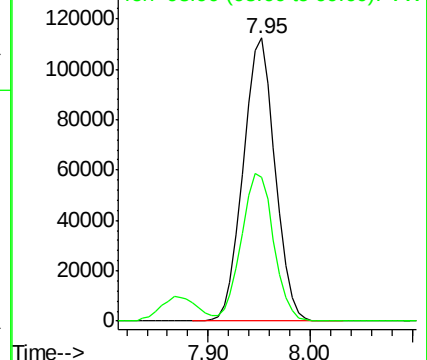
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 10.22 ug/l

RT: 2.00 min Scan# 67

Delta R.T. 0.00 min

Lab File: VW000943.D

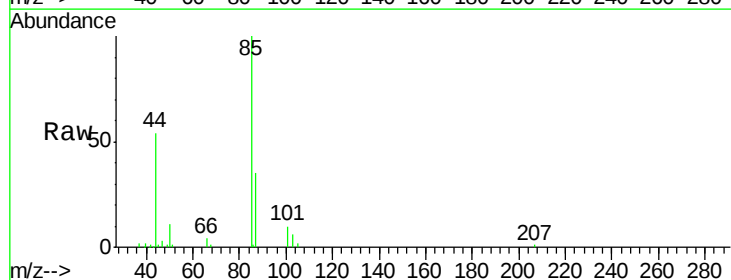
Acq: 24 Jan 2018 12:46

Tgt Ion: 85 Resp: 23979

Ion Ratio Lower Upper

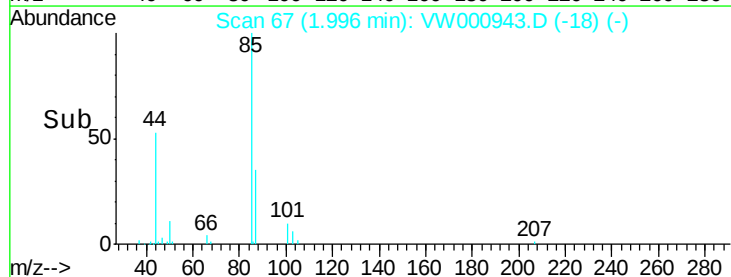
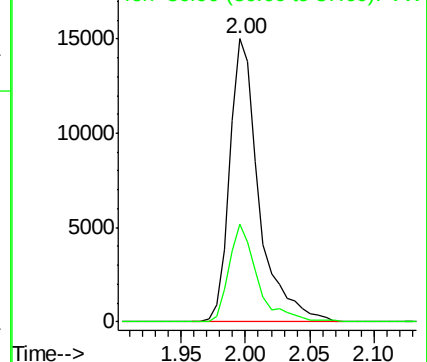
85 100

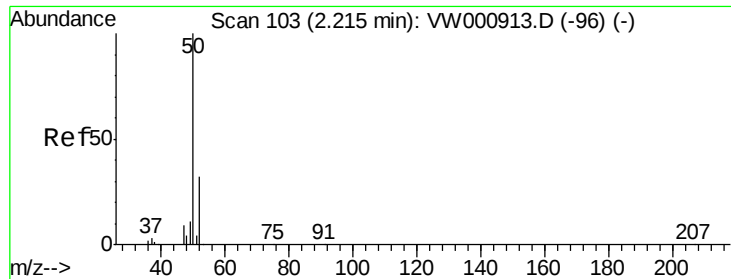
87 34.7 16.6 49.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 11.21 ug/l

RT: 2.22 min Scan# 103

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion: 50 Resp: 23242

Ion Ratio Lower Upper

50 100

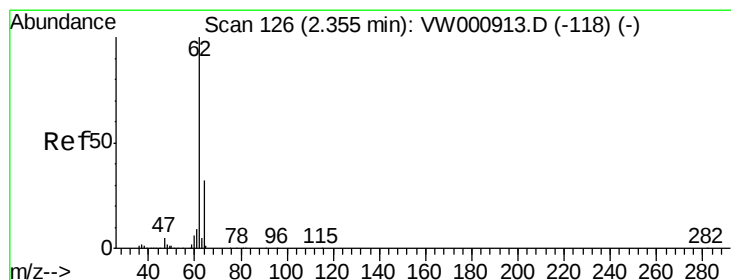
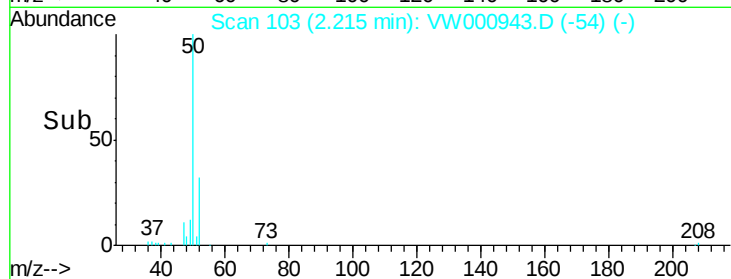
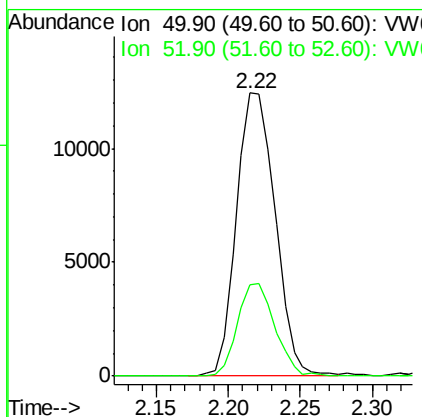
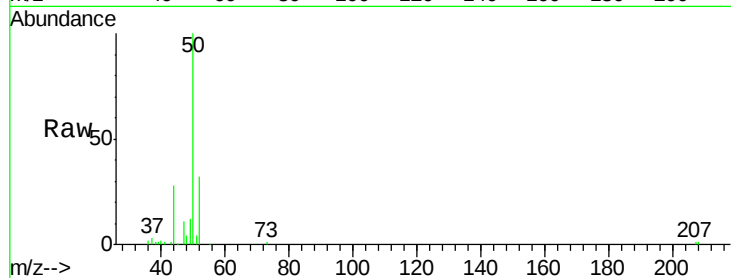
52 32.1 25.5 38.3

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#4

Vinyl Chloride

Concen: 10.19 ug/l

RT: 2.36 min Scan# 126

Delta R.T. 0.00 min

Lab File: VW000943.D

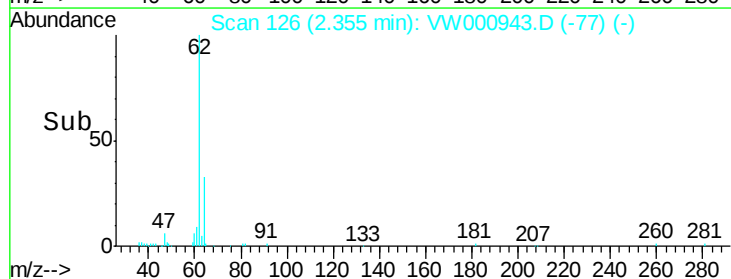
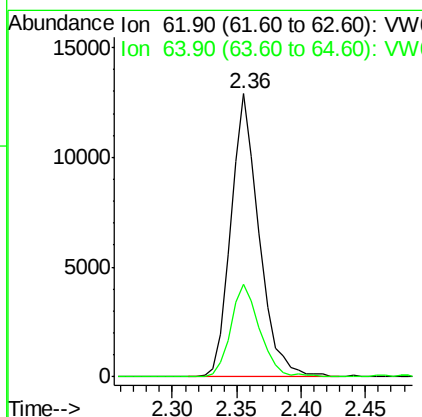
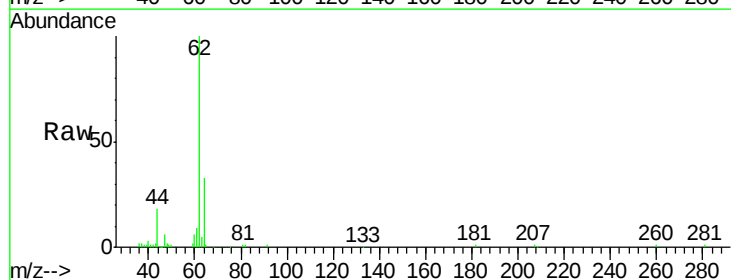
Acq: 24 Jan 2018 12:46

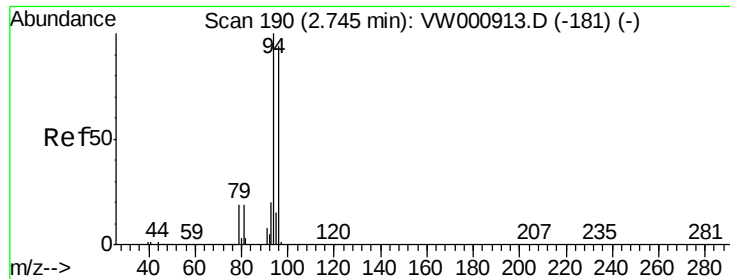
Tgt Ion: 62 Resp: 19658

Ion Ratio Lower Upper

62 100

64 32.7 25.6 38.4





#5

Bromomethane

Concen: 9.97 ug/l

RT: 2.73 min Scan# 187

Delta R.T. -0.02 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

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ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion: 94 Resp: 14336

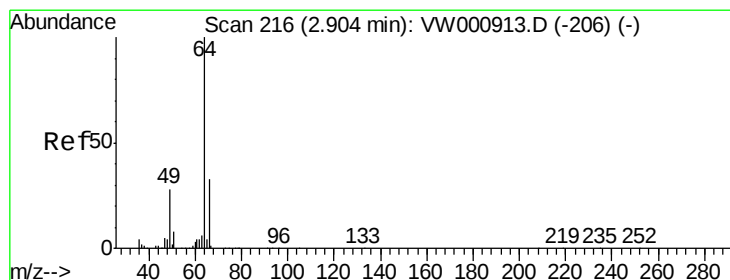
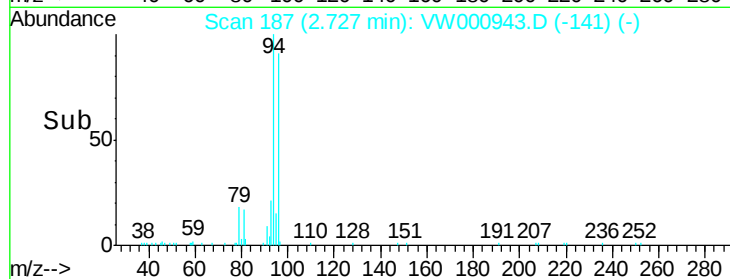
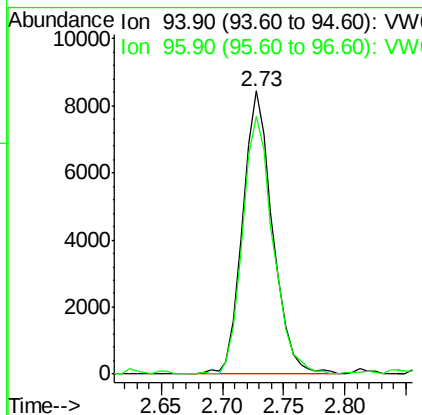
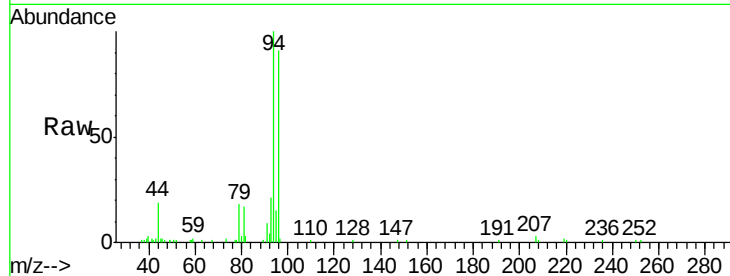
Ion Ratio Lower Upper

94 100

96 90.9 75.5 113.3

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#6

Chloroethane

Concen: 10.00 ug/l

RT: 2.89 min Scan# 214

Delta R.T. -0.01 min

Lab File: VW000943.D

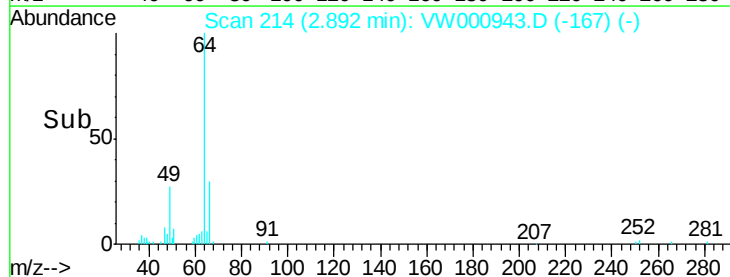
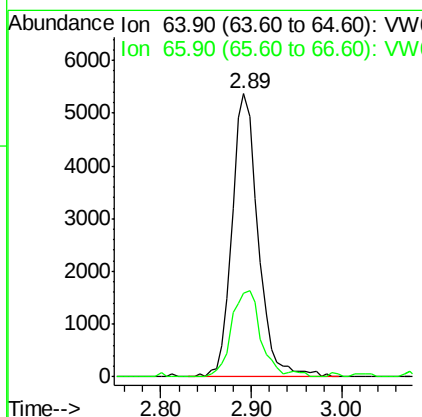
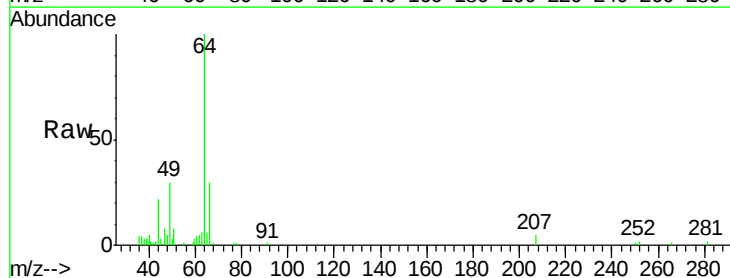
Acq: 24 Jan 2018 12:46

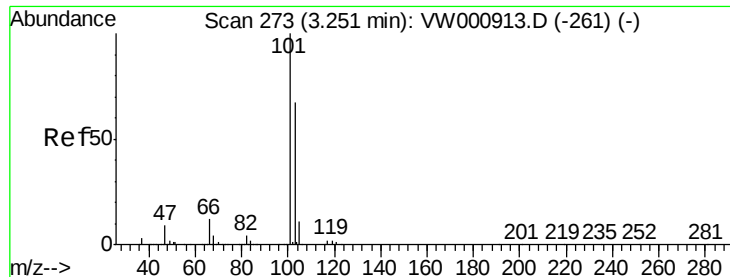
Tgt Ion: 64 Resp: 10720

Ion Ratio Lower Upper

64 100

66 29.6 26.1 39.1





#7

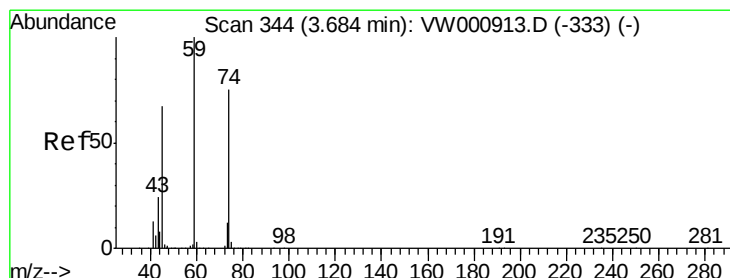
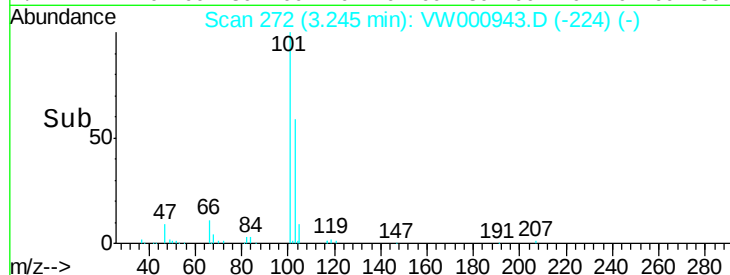
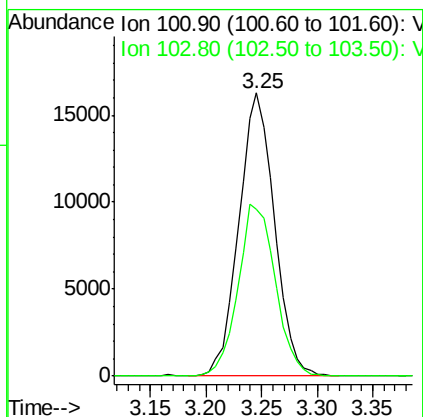
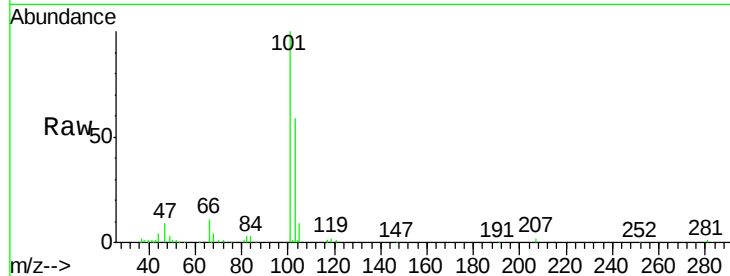
Trichlorofluoromethane
Concen: 10.18 ug/l
RT: 3.25 min Scan# 272
Delta R.T. -0.01 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Instrument :
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Tot Ion	Ratio	Resp	Lower	Upper
101	100	36152		
103	59.1		53.4	80.0

Manual Integrations
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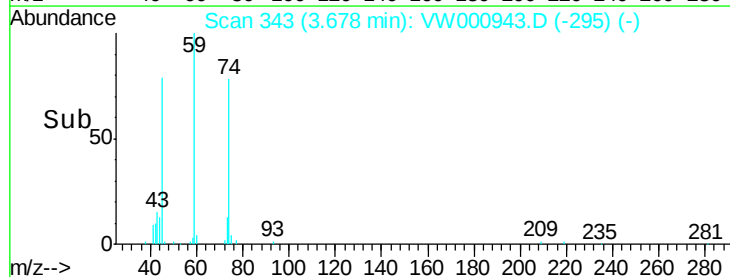
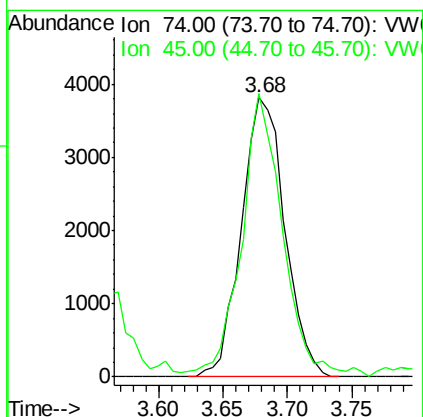
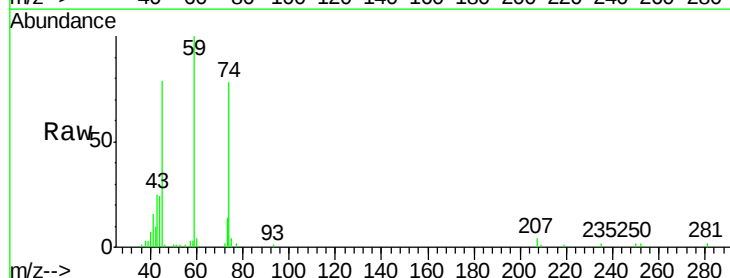
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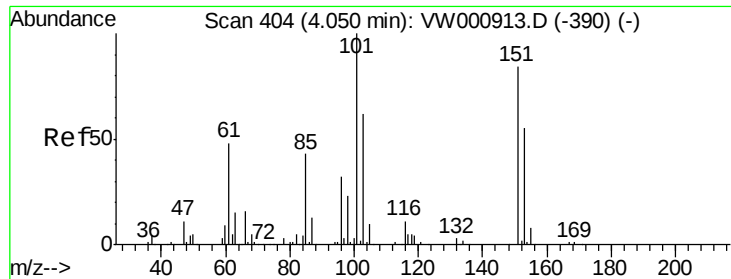


#8

Diethyl Ether
Concen: 10.01 ug/l
RT: 3.68 min Scan# 343
Delta R.T. -0.01 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	8903		
45	96.7		44.7	134.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 10.94 ug/l

RT: 4.04 min Scan# 403

Delta R.T. -0.01 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

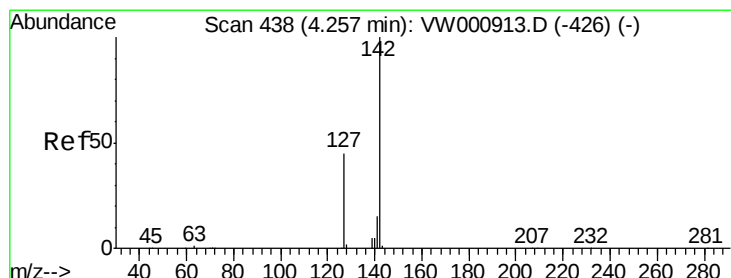
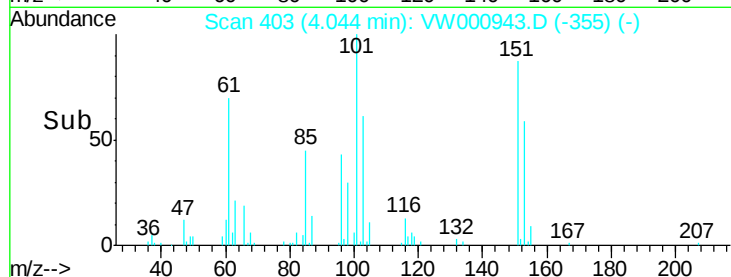
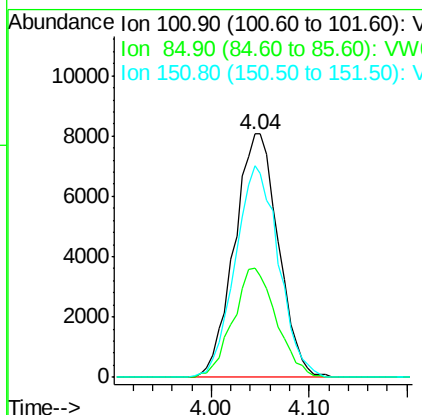
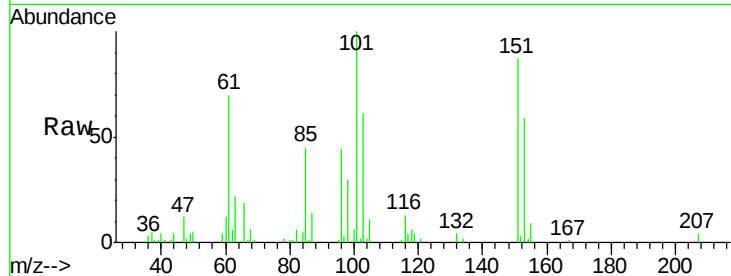
ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion:	101	Resp:	25090
Ion Ratio	Lower	Upper	
101	100		
85	44.1	35.3	52.9
151	86.0	69.9	104.9

Manual Integrations
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#10

Methyl Iodide

Concen: 11.21 ug/l

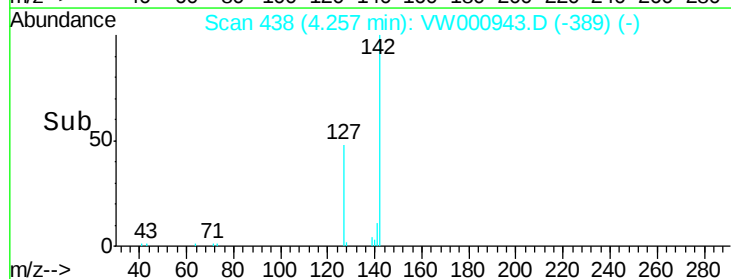
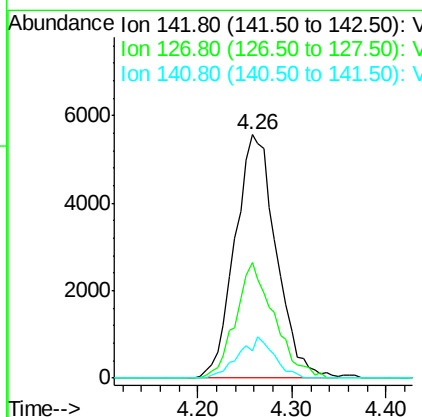
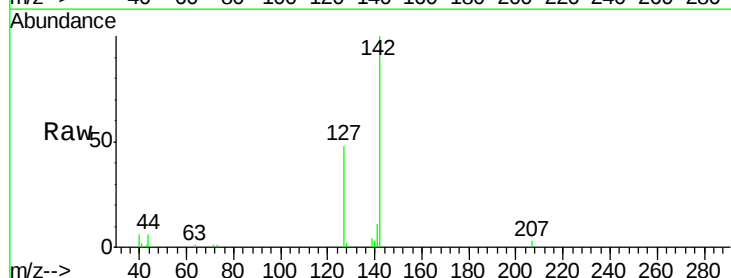
RT: 4.26 min Scan# 438

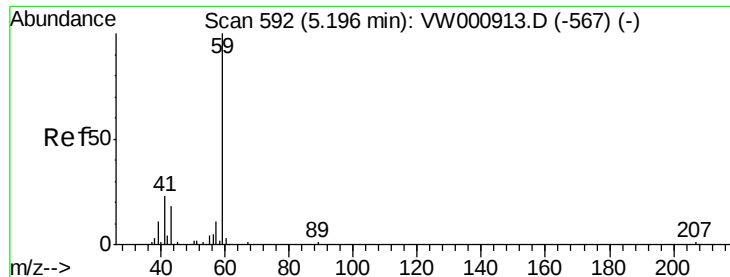
Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Tgt Ion:	142	Resp:	17111
Ion Ratio	Lower	Upper	
142	100		
127	44.0	35.5	53.3
141	14.5	11.7	17.5





#11

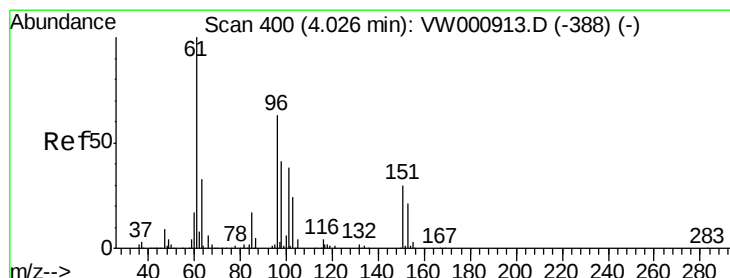
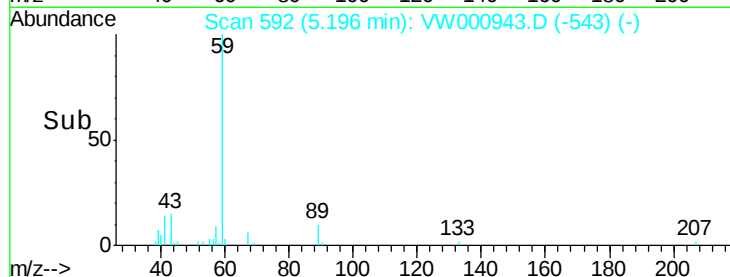
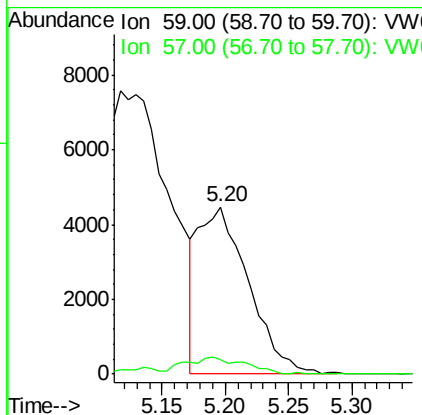
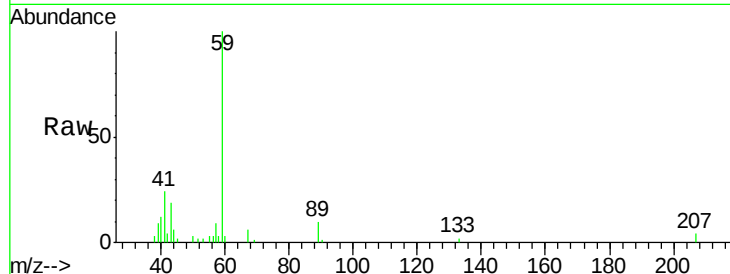
Tert butyl alcohol
 Concen: 48.98 ug/l m
 RT: 5.20 min Scan# 592
 Delta R.T. 0.00 min
 Lab File: VW000943.D
 Acq: 24 Jan 2018 12:46

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2018

Tot Ion	Ratio	Lower	Upper
59	100		
57	3.3	7.0	10.6#

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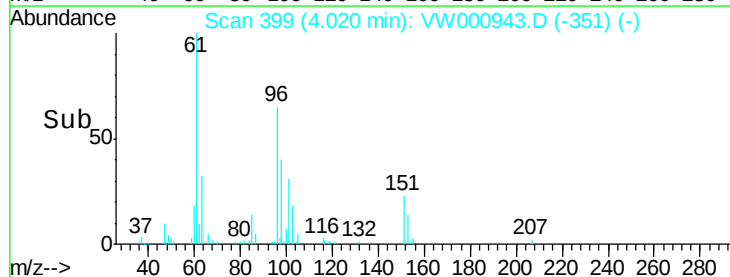
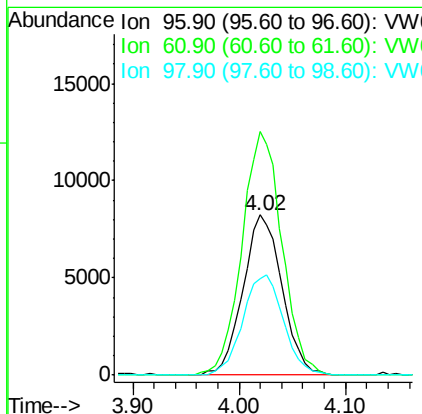
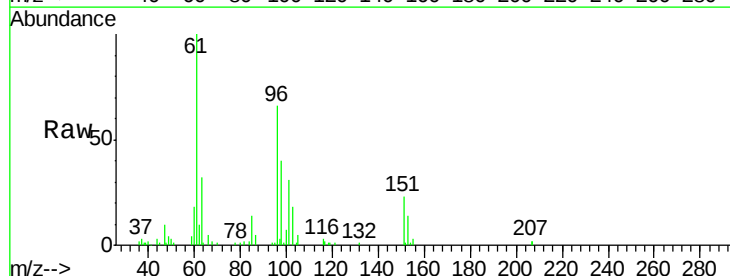
MMDadoda
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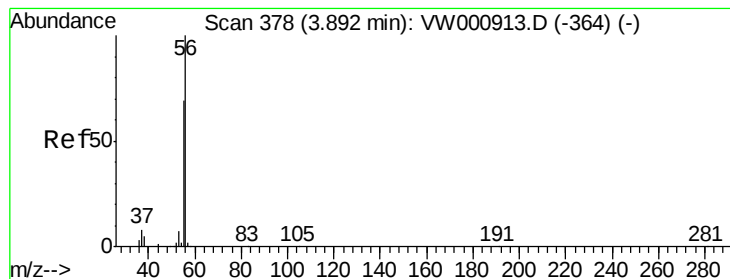


#12

1,1-Dichloroethene
 Concen: 10.78 ug/l
 RT: 4.02 min Scan# 399
 Delta R.T. -0.01 min
 Lab File: VW000943.D
 Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
96	100		
61	152.0	126.7	190.1
98	60.4	52.1	78.1





#13

Acrolein

Concen: 52.14 ug/l

RT: 3.89 min Scan# 377

Delta R.T. -0.01 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion: 56 Resp: 12873

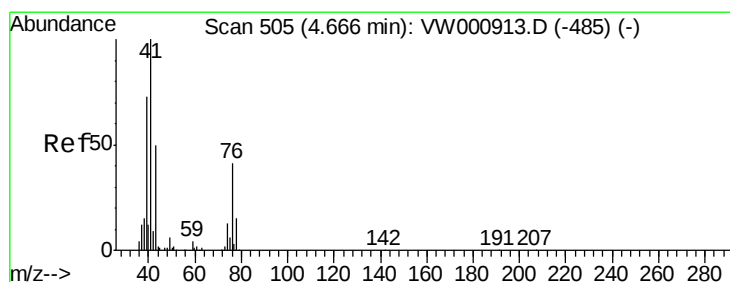
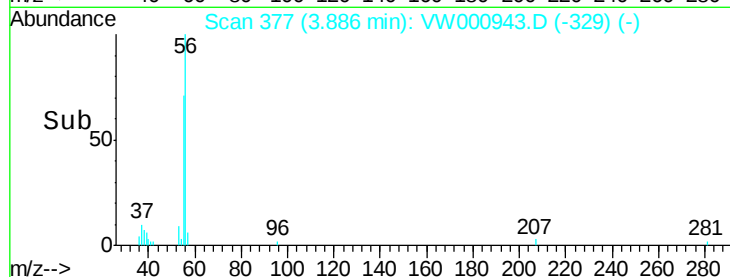
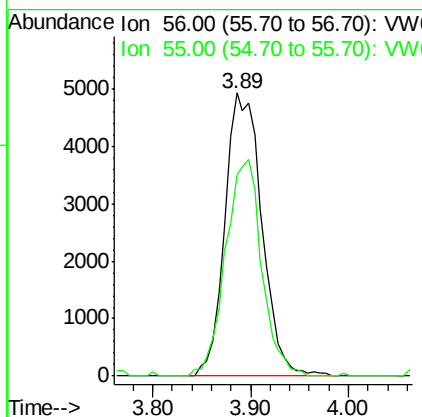
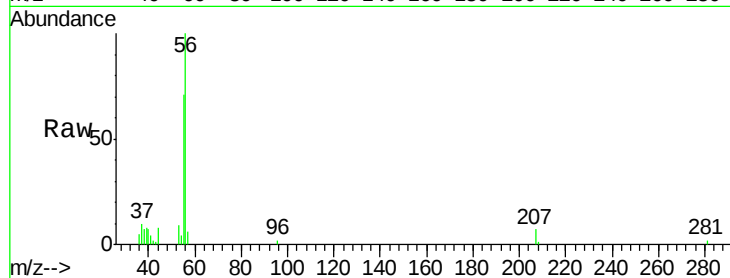
Ion Ratio Lower Upper

56 100

55 75.2 55.4 83.0

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#14

Allyl chloride

Concen: 10.25 ug/l

RT: 4.65 min Scan# 503

Delta R.T. -0.01 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

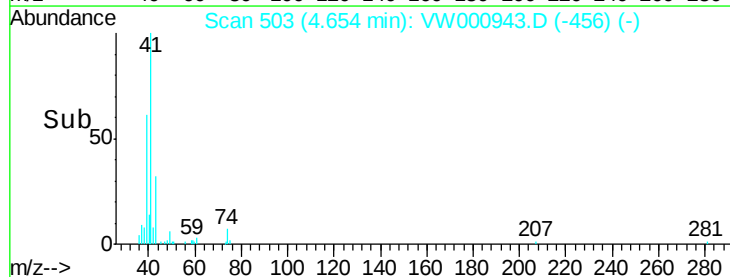
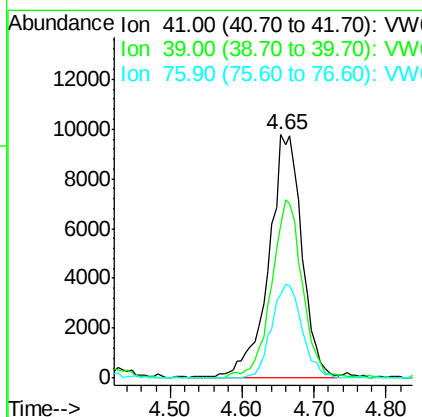
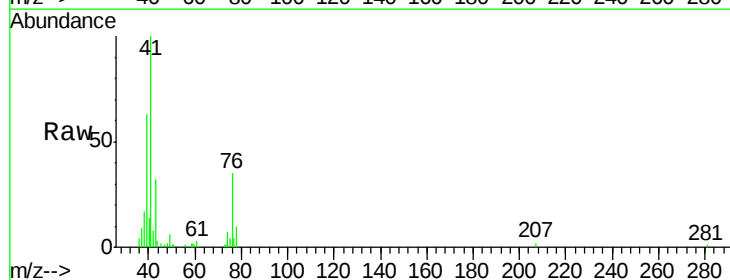
Tgt Ion: 41 Resp: 31476

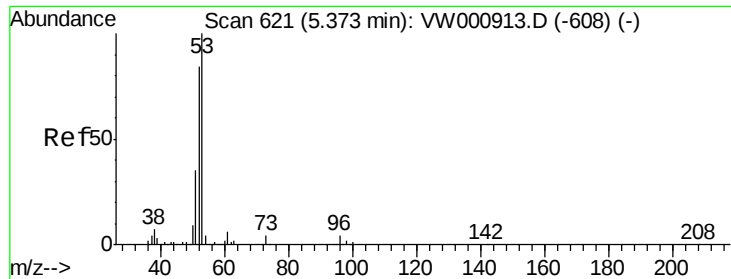
Ion Ratio Lower Upper

41 100

39 67.9 55.3 82.9

76 35.2 29.9 44.9





#15

Acrylonitrile

Concen: 55.36 ug/l

RT: 5.37 min Scan# 621

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

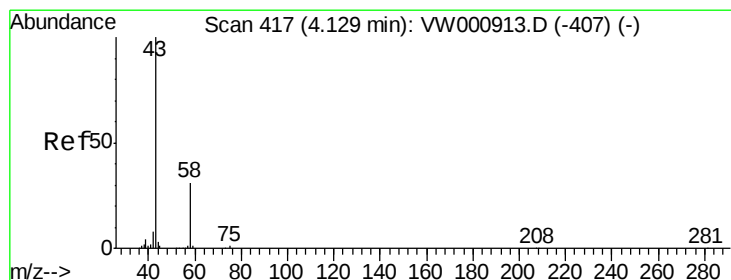
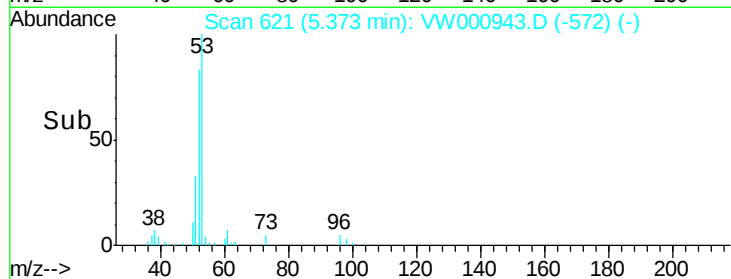
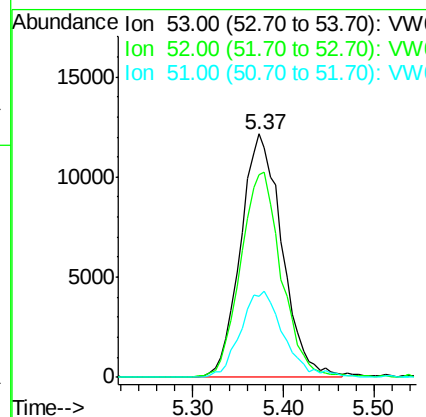
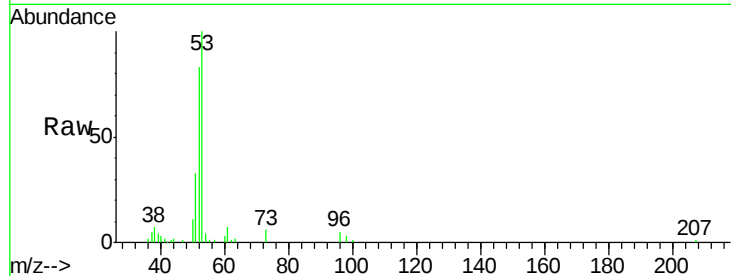
ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion:	53	Resp:	38457
Ion Ratio		Lower	Upper
53	100		
52	83.3	66.6	99.8
51	36.8	29.4	44.0

Manual Integrations
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#16

Acetone

Concen: 56.40 ug/l

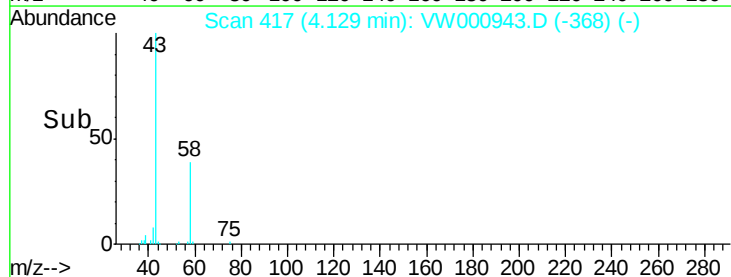
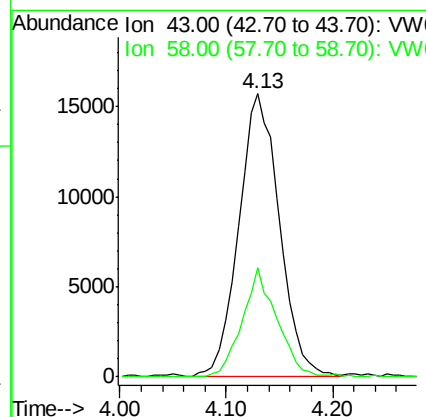
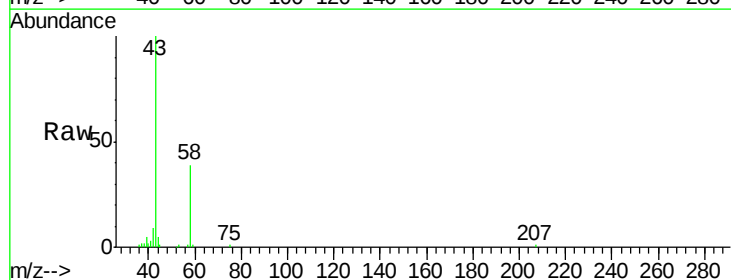
RT: 4.13 min Scan# 417

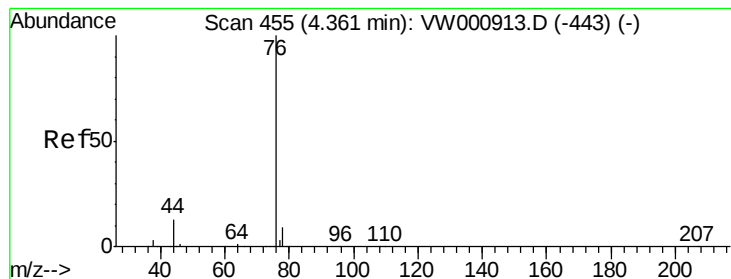
Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Tgt Ion:	43	Resp:	42079
Ion Ratio		Lower	Upper
43	100		
58	38.7	24.9	37.3#





#17

Carbon Disulfide

Concen: 10.06 ug/l

RT: 4.36 min Scan# 455

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion: 76 Resp: 65516

Ion Ratio Lower Upper

76 100

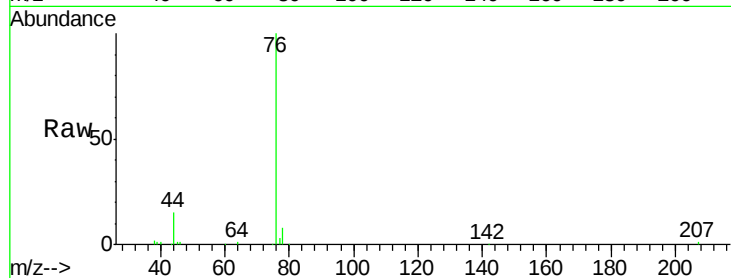
78 7.7 7.4 11.2

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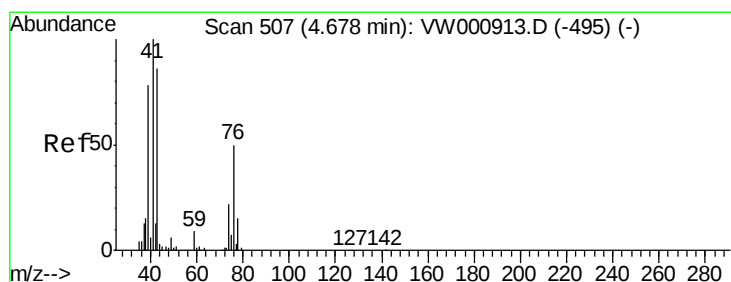
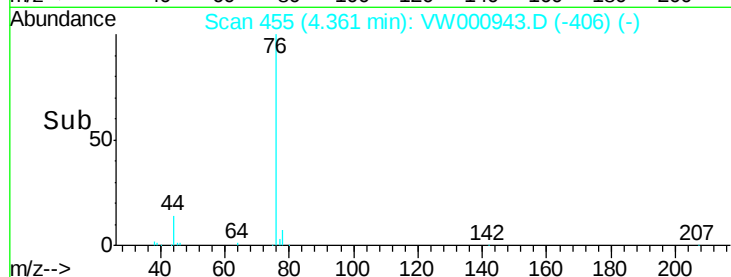
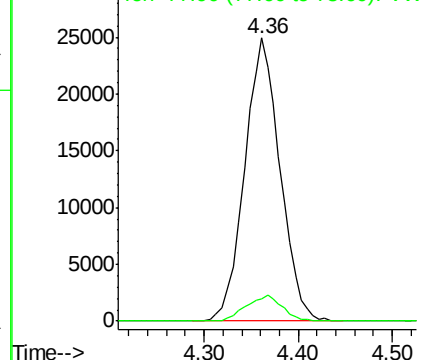
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Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#18

Methyl Acetate

Concen: 11.92 ug/l

RT: 4.68 min Scan# 507

Delta R.T. 0.00 min

Lab File: VW000943.D

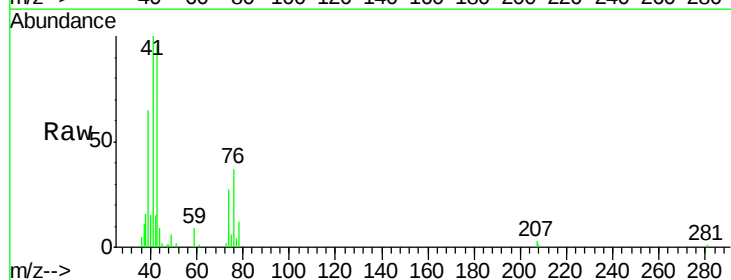
Acq: 24 Jan 2018 12:46

Tgt Ion: 43 Resp: 20453

Ion Ratio Lower Upper

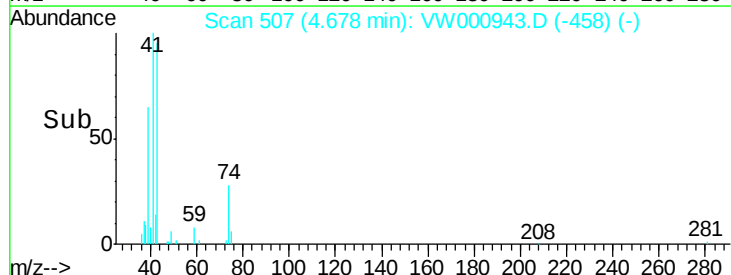
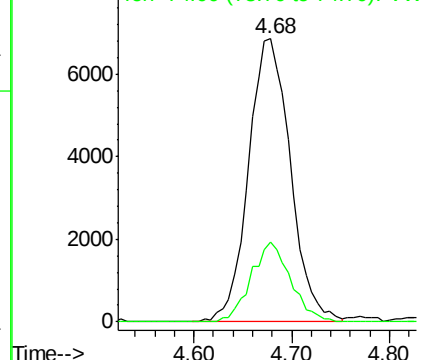
43 100

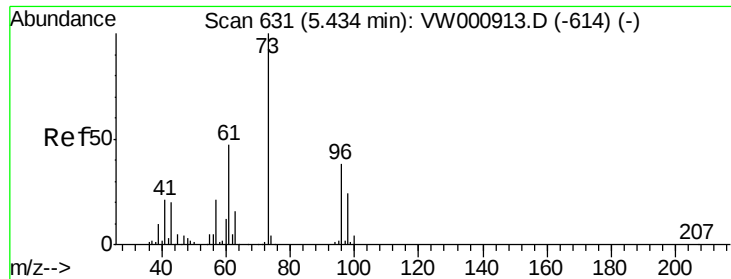
74 26.5 20.5 30.7



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 74.00 (73.70 to 74.70): VW





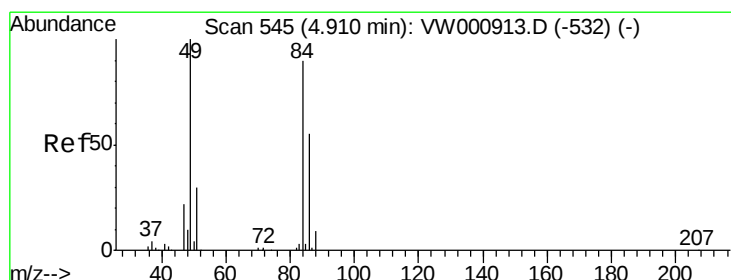
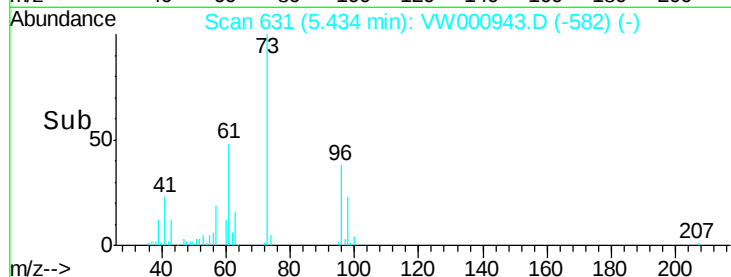
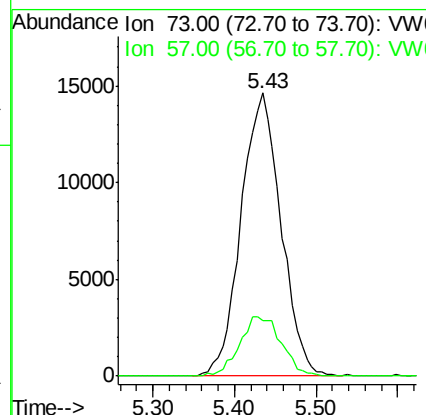
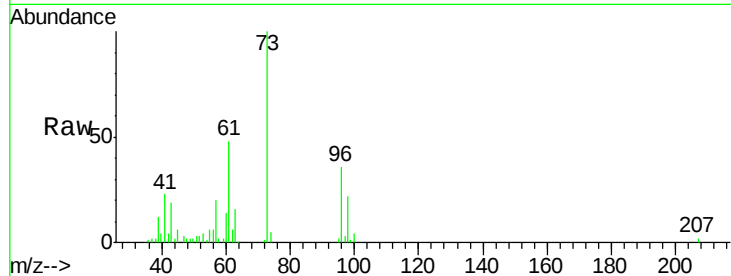
#19
Methvl tert-butvl Ether
Concen: 9.81 ug/l
RT: 5.43 min Scan# 631
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2018

Tot Ion: 73 Resp: 49661
Ion Ratio Lower Upper
73 100
57 19.6 16.7 25.1

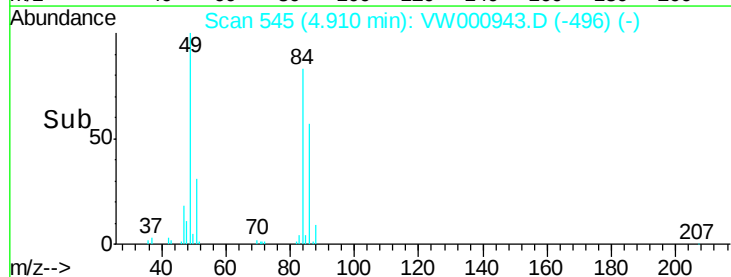
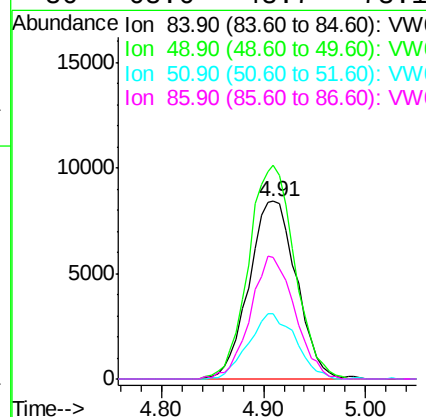
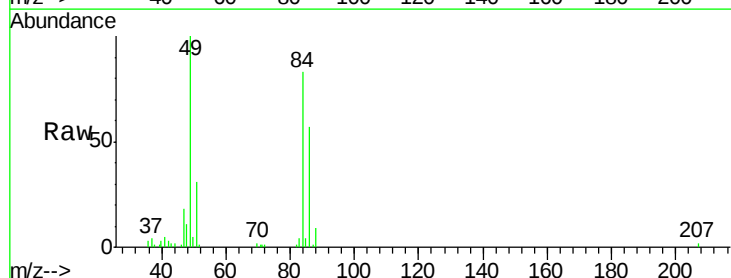
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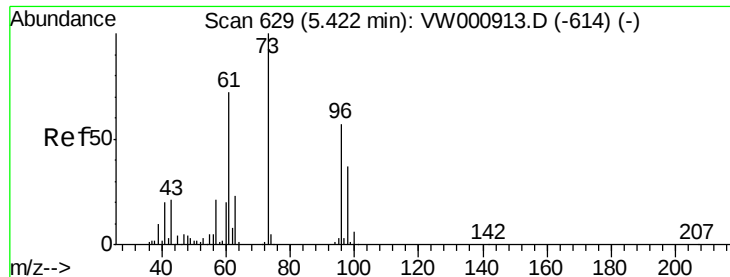
MMDadoda
1/25/2018 1:33:55 PM



#20
Methylene Chloride
Concen: 10.56 ug/l
RT: 4.91 min Scan# 545
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion: 84 Resp: 27146
Ion Ratio Lower Upper
84 100
49 120.2 89.0 133.4
51 36.7 26.7 40.1
86 68.6 48.7 73.1





#21

trans-1,2-Dichloroethene

Concen: 10.26 ug/l

RT: 5.42 min Scan# 628

Delta R.T. -0.01 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

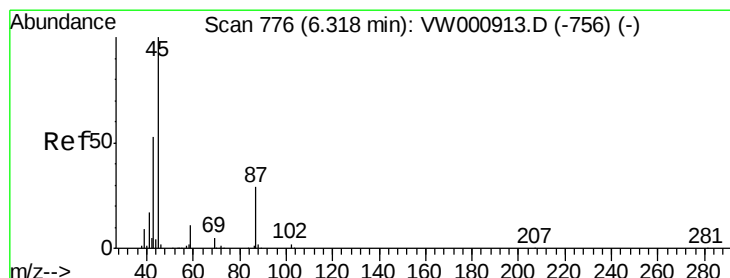
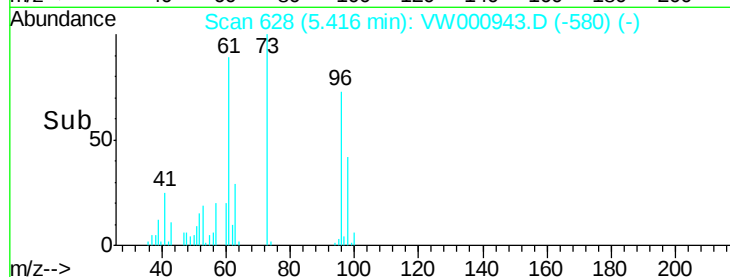
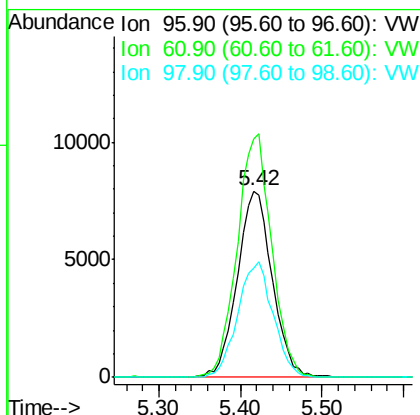
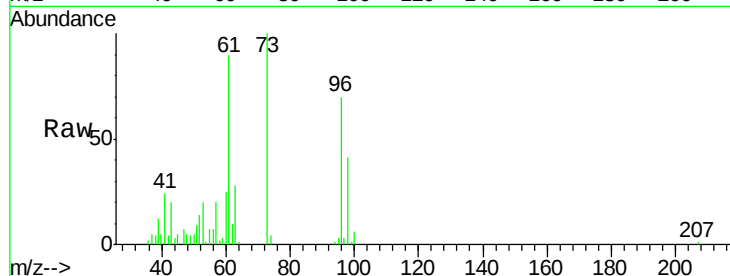
ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion:	96	Resp:	23510
Ion	Ratio	Lower	Upper
96	100		
61	127.7	101.1	151.7
98	58.3	52.2	78.2

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#22

Diisopropyl ether

Concen: 9.89 ug/l

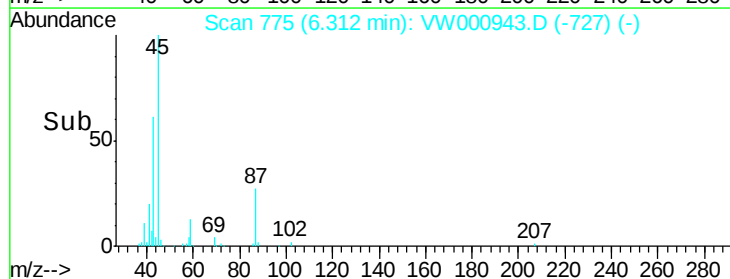
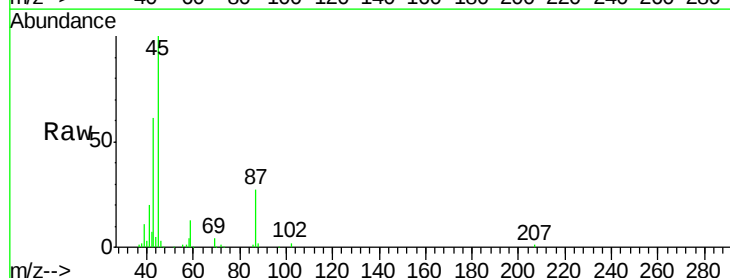
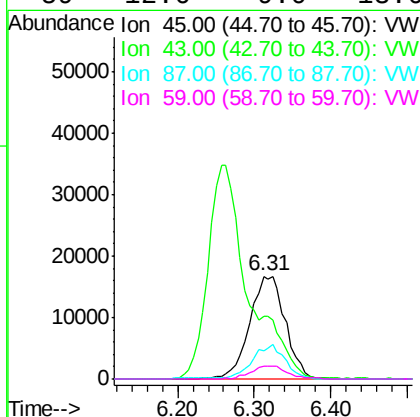
RT: 6.31 min Scan# 775

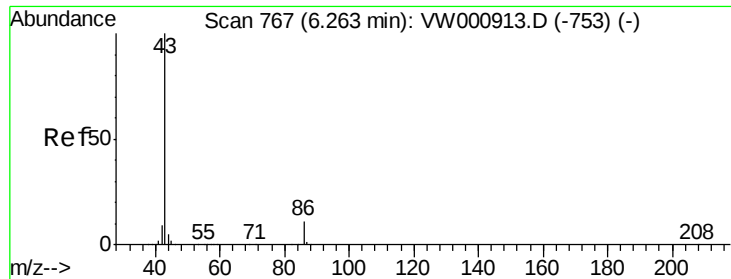
Delta R.T. -0.01 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Tgt Ion:	45	Resp:	54398
Ion	Ratio	Lower	Upper
45	100		
43	60.0	42.7	64.1
87	27.2	23.8	35.8
59	12.6	9.0	13.6





#23

Vinyl Acetate

Concen: 37.34 ug/l

RT: 6.26 min Scan# 767

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion: 43 Resp: 127589

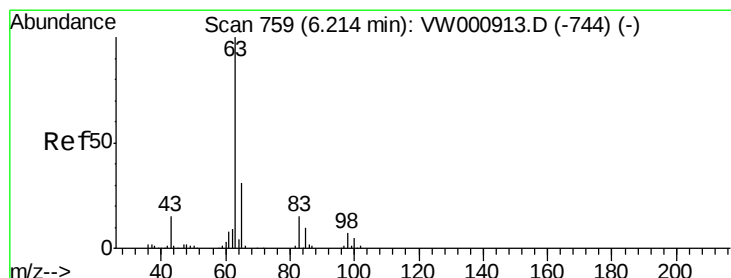
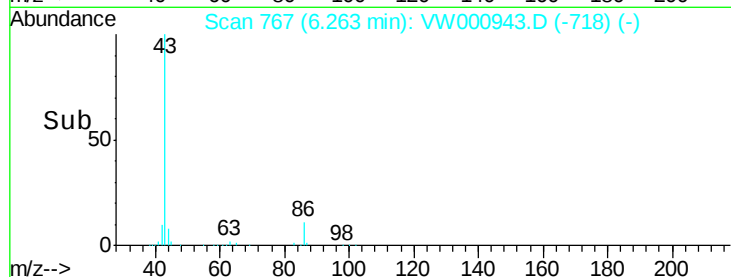
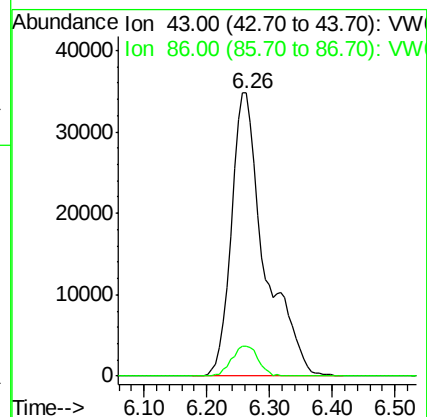
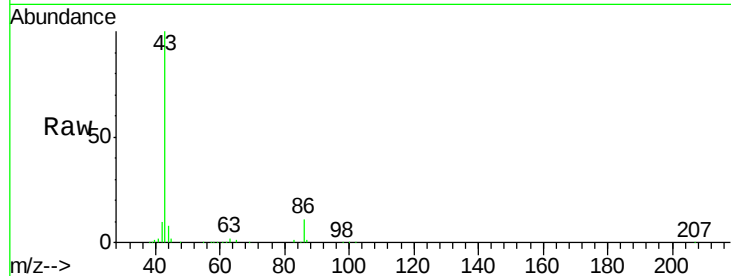
Ion Ratio Lower Upper

43 100

86 10.6 9.1 13.7

Manual Integrations
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#24

1,1-Dichloroethane

Concen: 10.17 ug/l

RT: 6.21 min Scan# 759

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

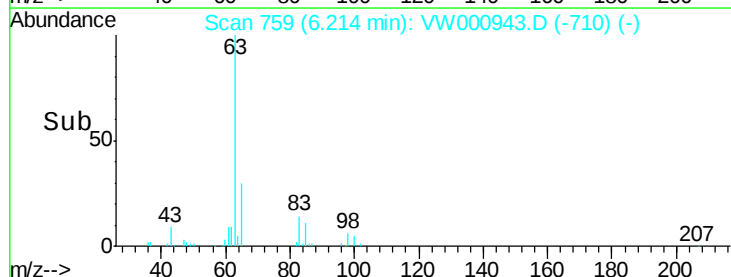
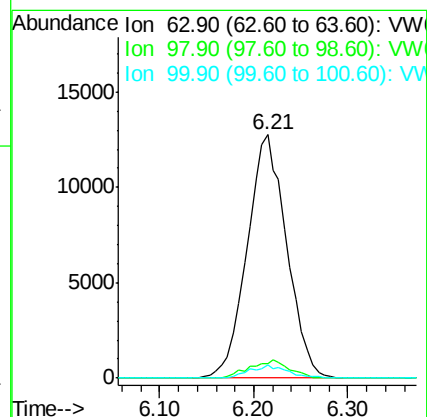
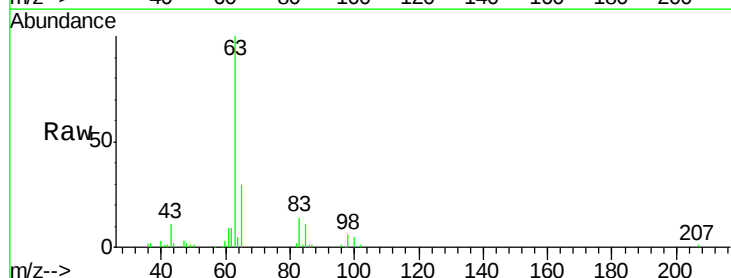
Tgt Ion: 63 Resp: 37458

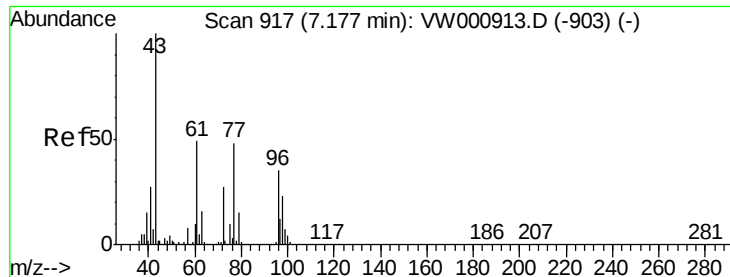
Ion Ratio Lower Upper

63 100

98 5.8 3.6 10.8

100 5.3 2.5 7.4





#25

2-Butanone

Concen: 50.79 ug/l

RT: 7.18 min Scan# 917

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion: 43 Resp: 52397

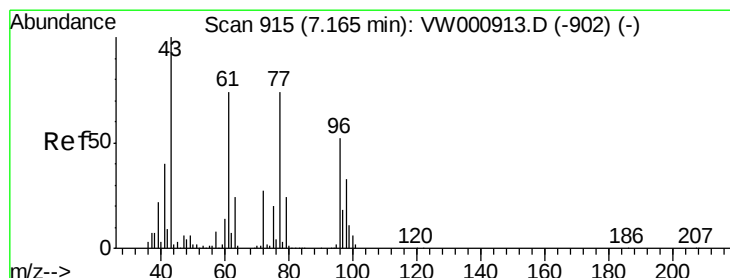
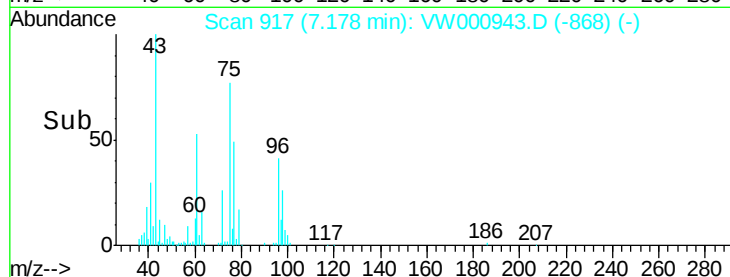
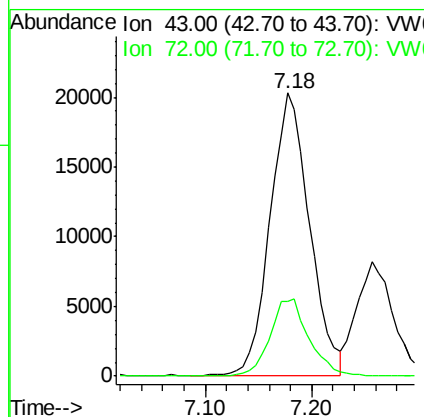
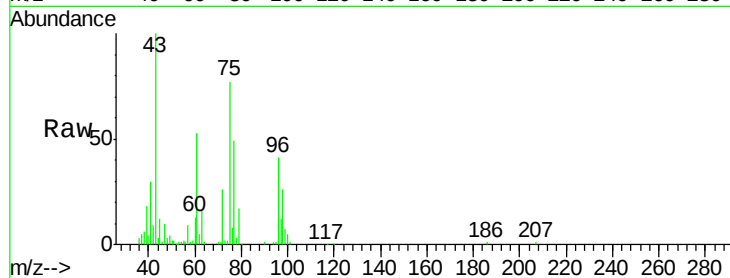
Ion Ratio Lower Upper

43 100

72 26.3 21.5 32.3

Manual Integrations
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1/25/2018 1:33:55 PM



#26

2,2-Dichloropropane

Concen: 10.14 ug/l

RT: 7.17 min Scan# 915

Delta R.T. 0.00 min

Lab File: VW000943.D

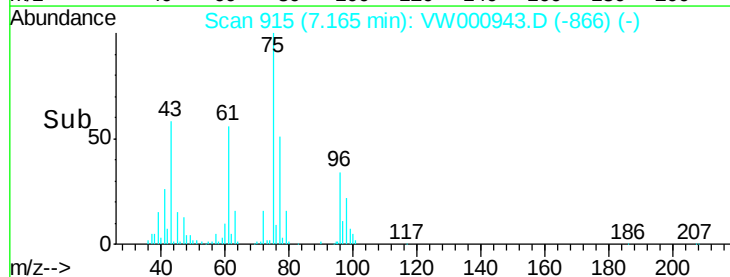
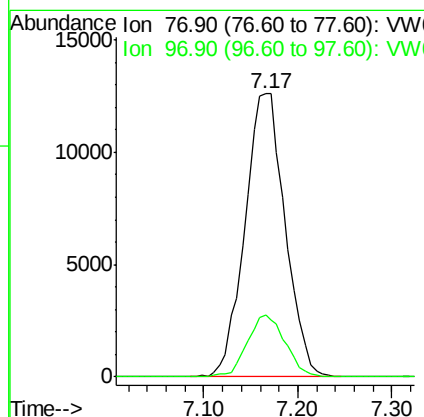
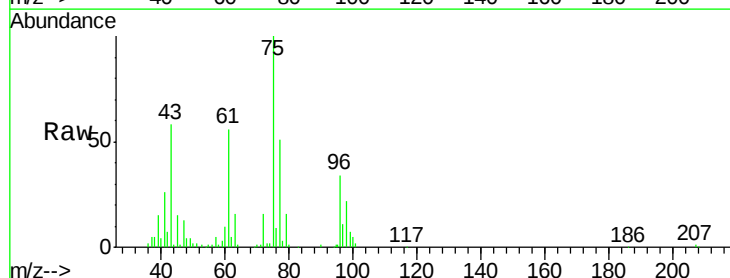
Acq: 24 Jan 2018 12:46

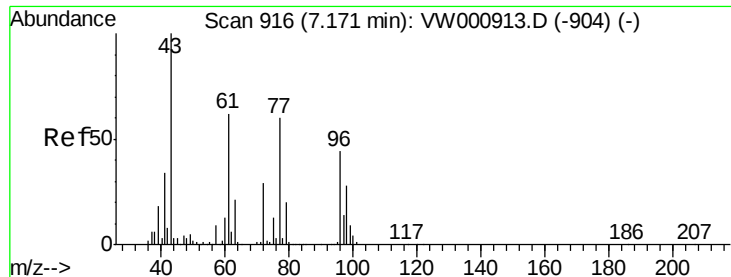
Tgt Ion: 77 Resp: 37783

Ion Ratio Lower Upper

77 100

97 20.5 11.8 35.3





#27

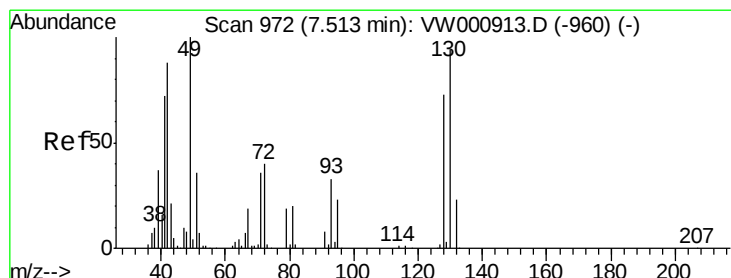
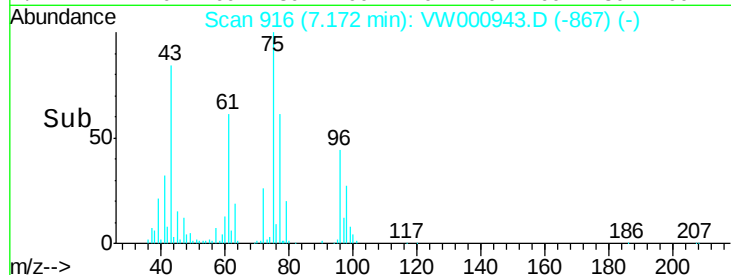
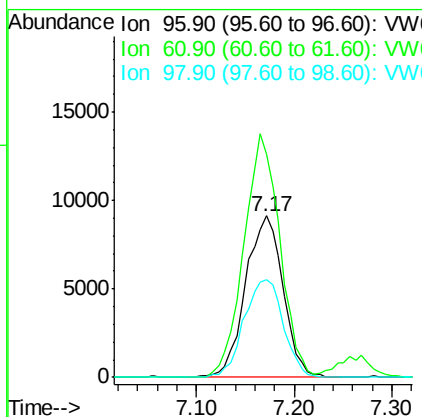
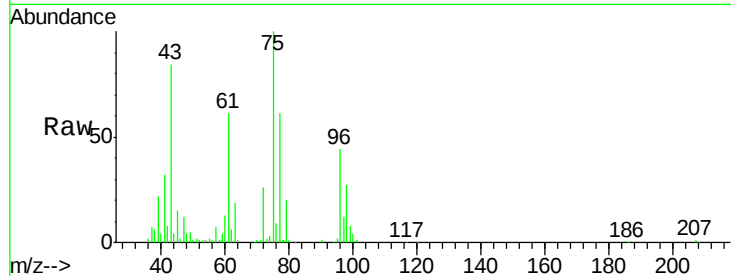
cis-1,2-Dichloroethene
Concen: 10.19 ug/l
RT: 7.17 min Scan# 916
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2018

Tot Ion	Ratio	Lower	Upper
96	100		
61	145.3	0.0	279.8
98	63.7	0.0	127.6

Manual Integrations
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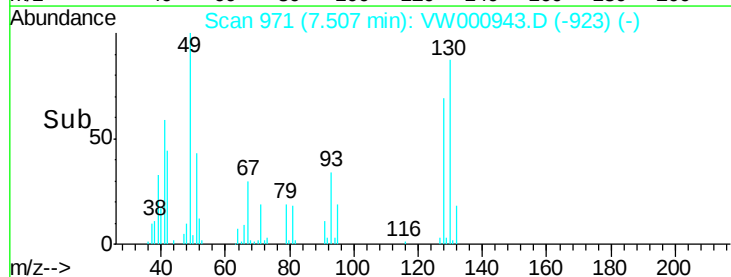
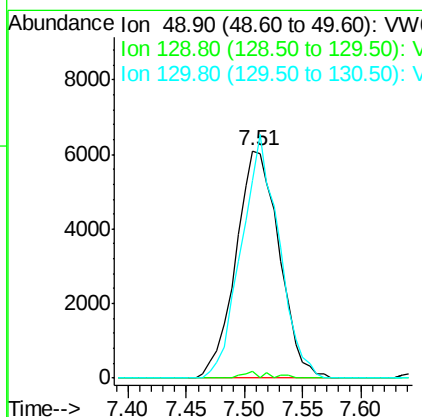
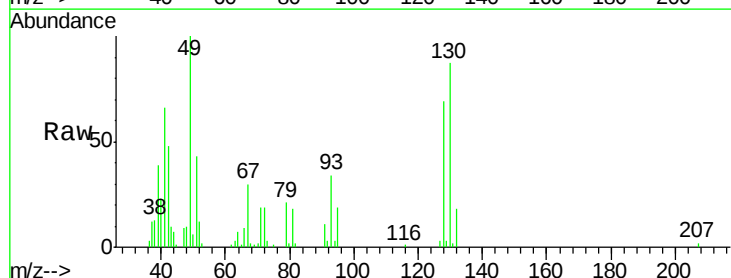
MMDadoda
1/25/2018 1:33:55 PM

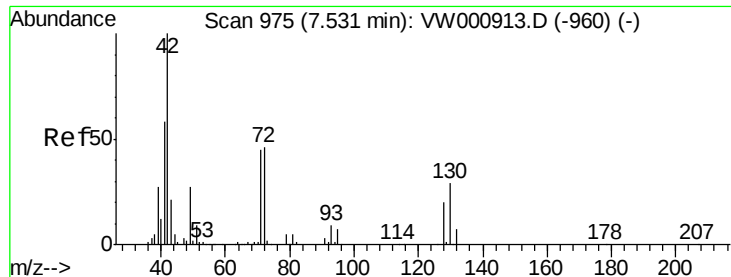


#28

Bromochloromethane
Concen: 10.20 ug/l
RT: 7.51 min Scan# 971
Delta R.T. -0.01 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.9	0.0	2.8
130	93.2	73.8	110.6





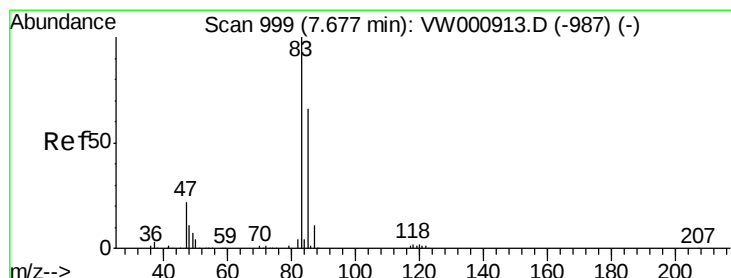
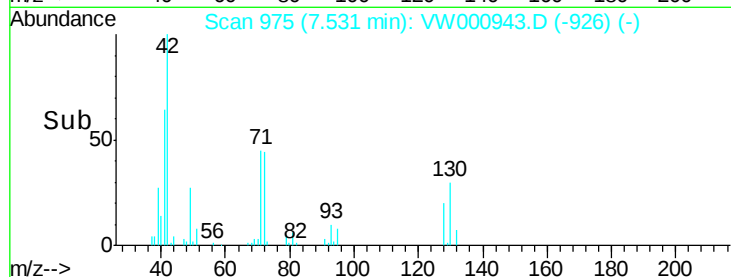
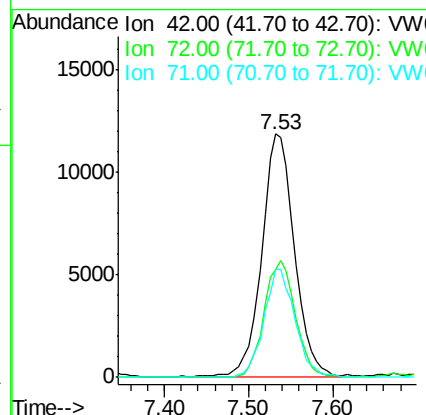
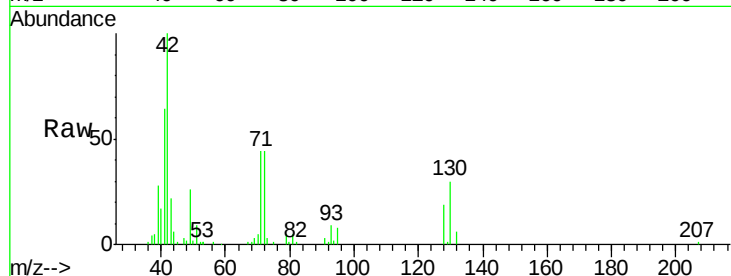
#29
Tetrahydrofuran
Concen: 55.98 ug/l
RT: 7.53 min Scan# 975
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2018

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.9	37.1	55.7
71	42.2	34.9	52.3

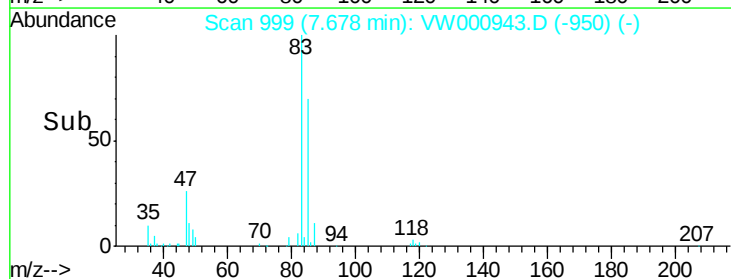
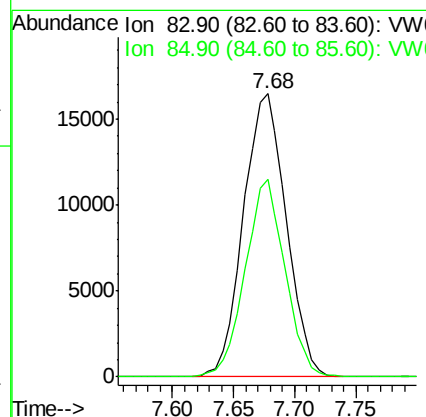
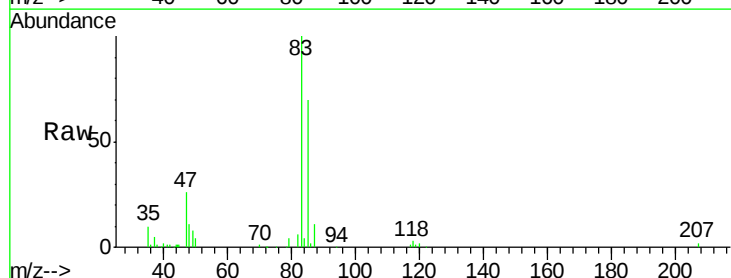
Manual Integrations
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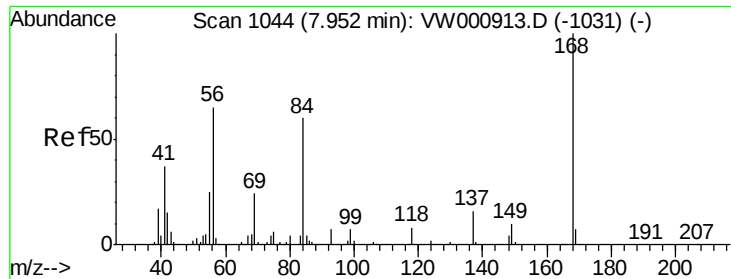
MMDadoda
1/25/2018 1:33:55 PM



#30
Chloroform
Concen: 10.09 ug/l
RT: 7.68 min Scan# 999
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
83	100		
85	69.6	52.5	78.7





#31

Cyclohexane

Concen: 10.43 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion: 56 Resp: 39637

Ion Ratio Lower Upper

56 100

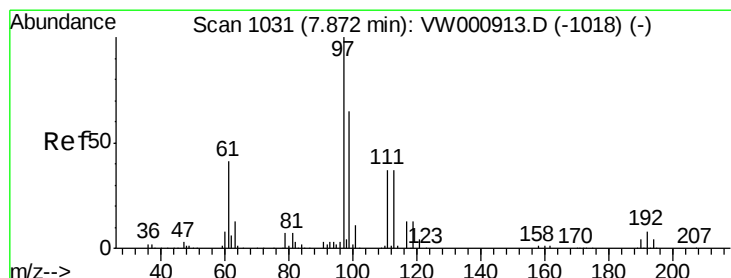
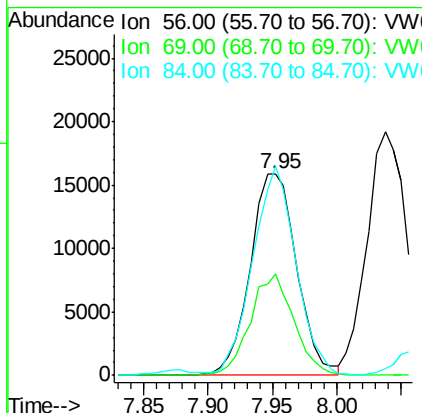
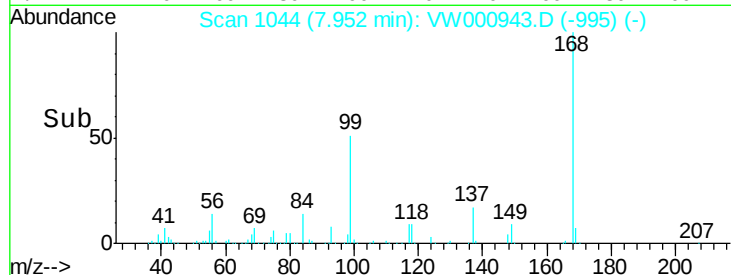
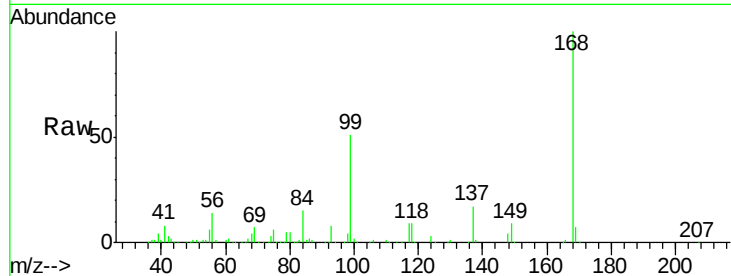
69 50.4 29.2 43.8#

84 102.7 73.6 110.4

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 10.18 ug/l

RT: 7.87 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

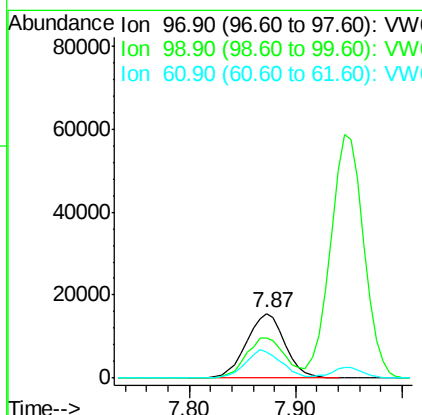
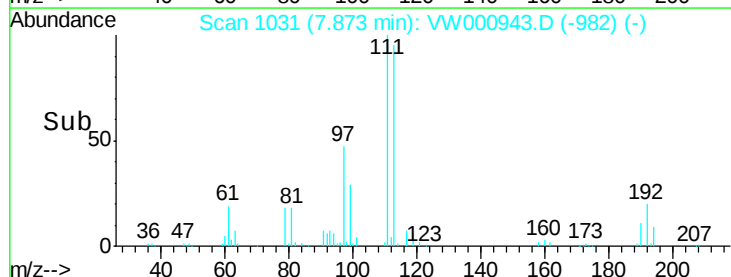
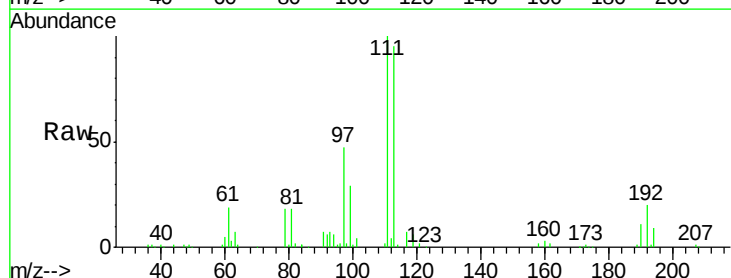
Tgt Ion: 97 Resp: 39060

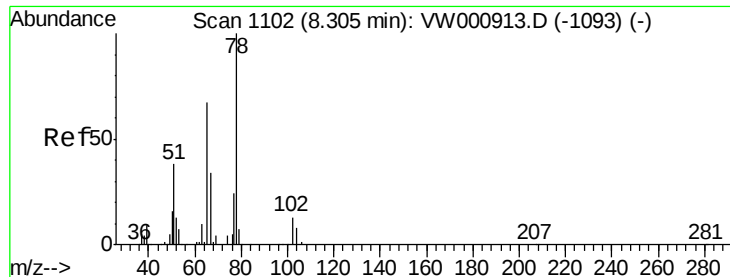
Ion Ratio Lower Upper

97 100

99 65.1 52.6 78.8

61 41.2 32.9 49.3





#33

1,2-Dichloroethane-d4

Concen: 51.69 ug/l

RT: 8.31 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion: 65 Resp: 120540

Ion Ratio Lower Upper

65 100

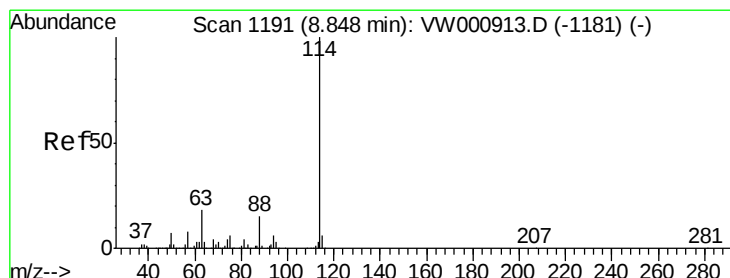
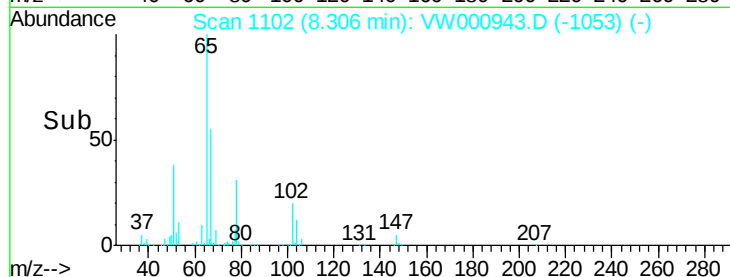
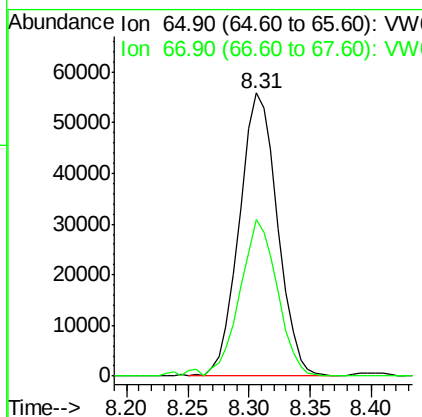
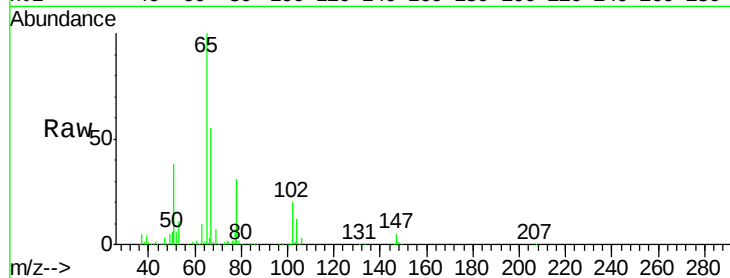
67 54.0 0.0 105.8

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.85 min Scan# 1191

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

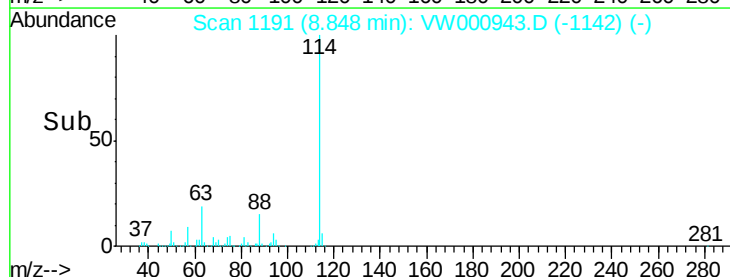
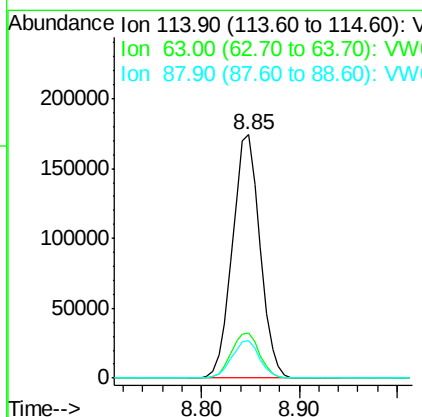
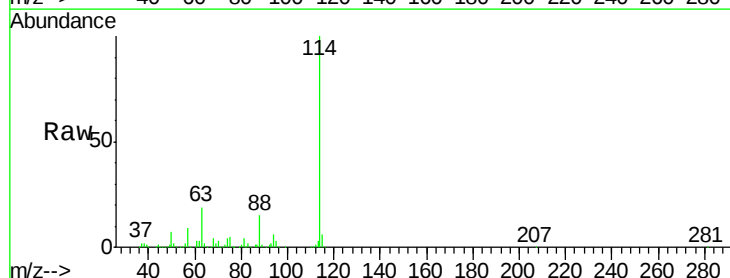
Tgt Ion: 114 Resp: 341060

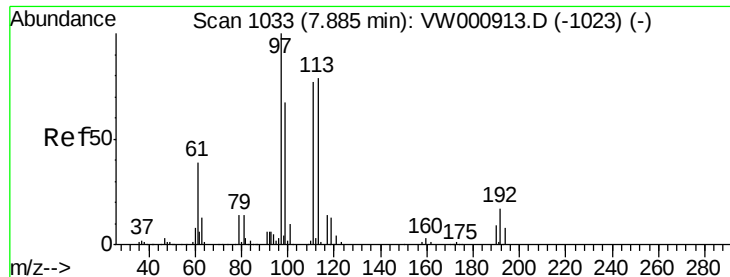
Ion Ratio Lower Upper

114 100

63 18.6 0.0 36.8

88 15.2 0.0 29.8





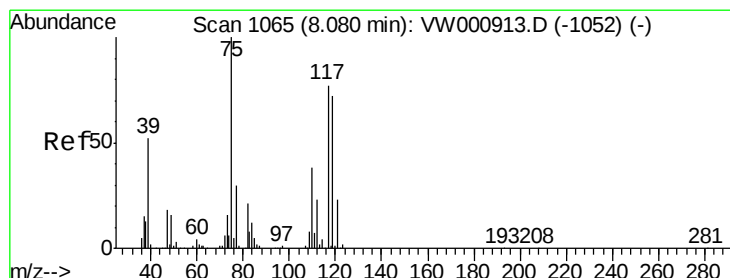
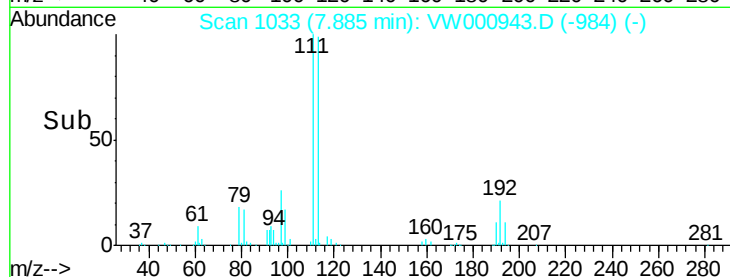
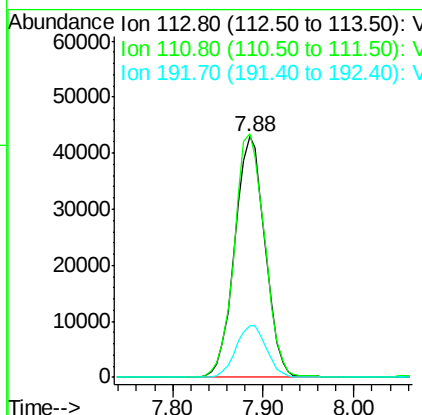
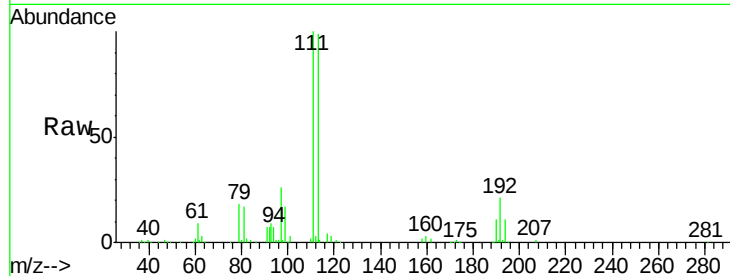
#35
 Dibromofluoromethane
 Concen: 47.97 ug/l
 RT: 7.88 min Scan# 1033
 Delta R.T. 0.00 min
 Lab File: VW000943.D
 Acq: 24 Jan 2018 12:46

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2018

Tot Ion	Ratio	Lower	Upper
113	100		
111	101.8	80.4	120.6
192	21.7	17.0	25.4

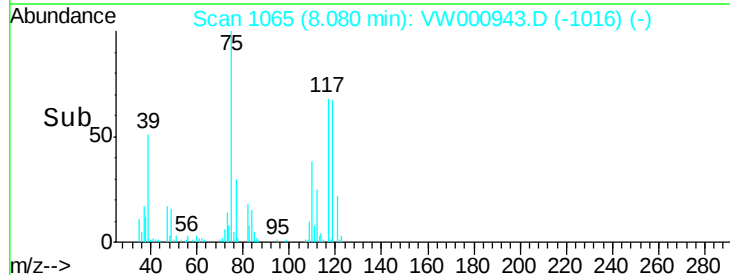
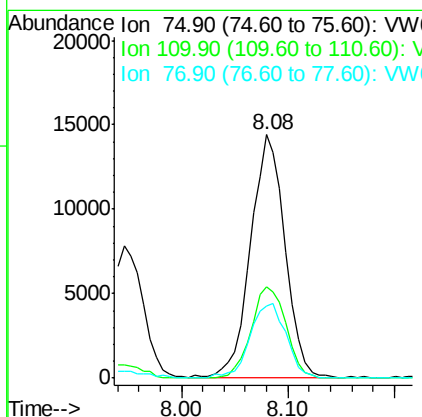
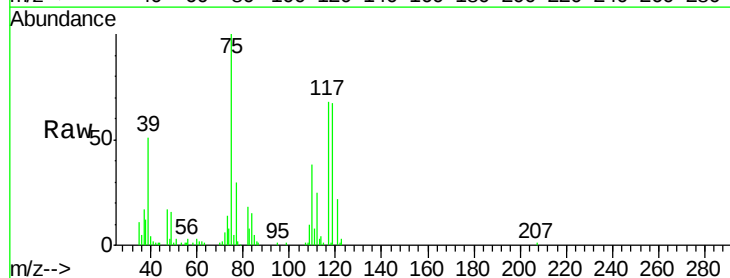
Manual Integrations
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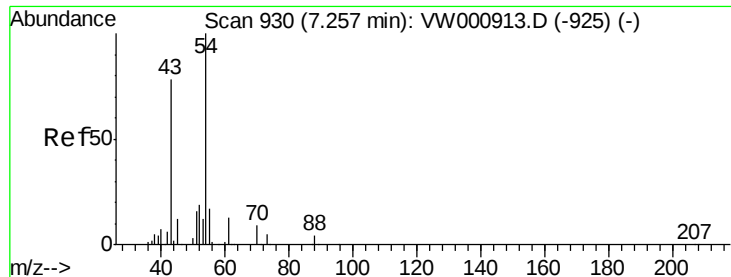
MMDadoda
 1/25/2018 1:33:55 PM



#36
 1,1-Dichloropropene
 Concen: 10.09 ug/l
 RT: 8.08 min Scan# 1065
 Delta R.T. 0.00 min
 Lab File: VW000943.D
 Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
75	100		
110	37.8	18.6	56.0
77	32.1	24.6	36.8





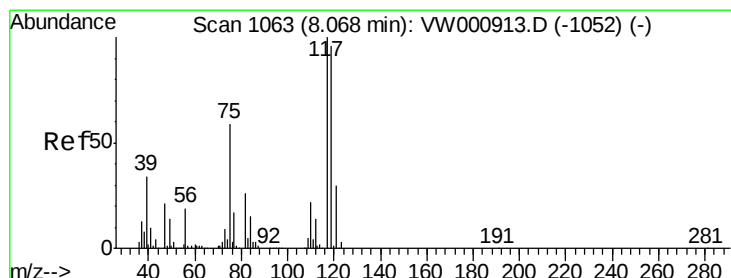
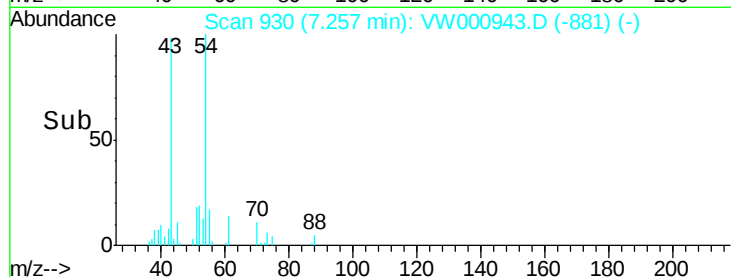
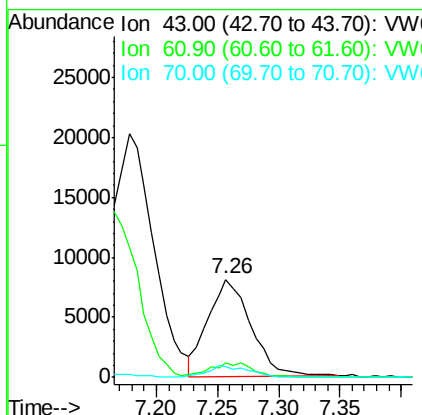
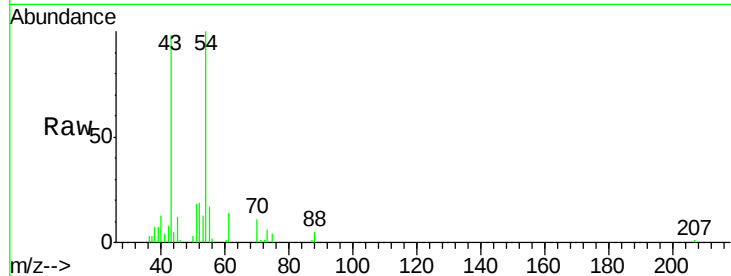
#37
Ethyl Acetate
Concen: 10.79 ug/l
RT: 7.26 min Scan# 930
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2018

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.2	12.1	18.1
70	11.3	9.1	13.7

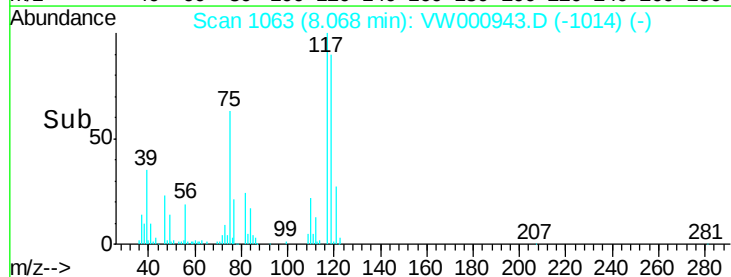
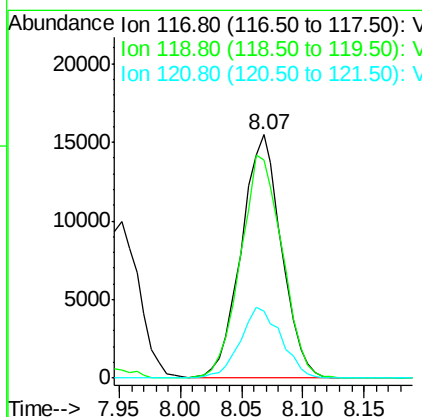
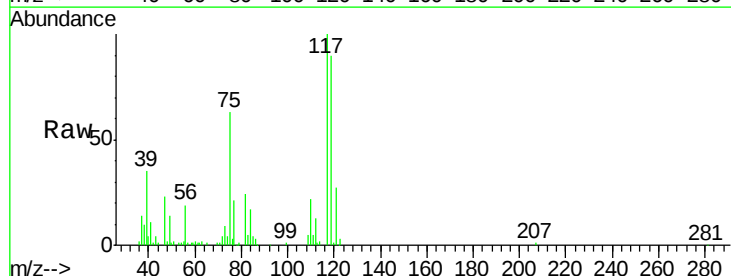
Manual Integrations
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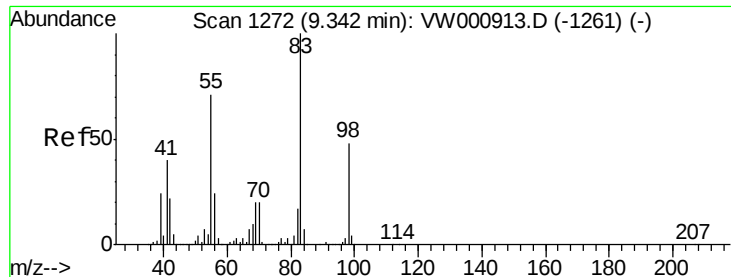
MMDadoda
1/25/2018 1:33:55 PM



#38
Carbon Tetrachloride
Concen: 9.87 ug/l
RT: 8.07 min Scan# 1063
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	89.6	76.5	114.7
121	27.3	24.3	36.5





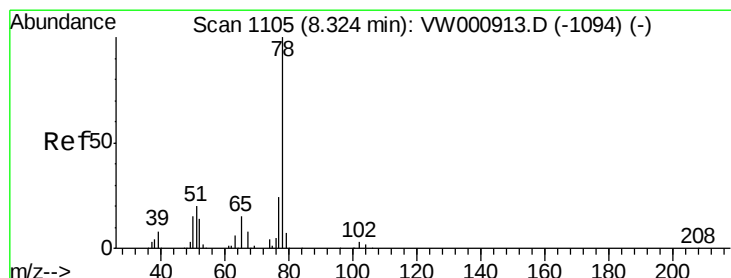
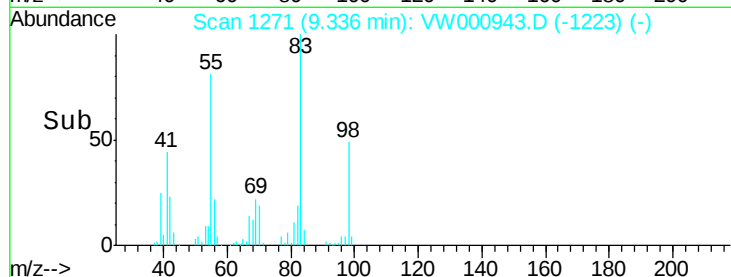
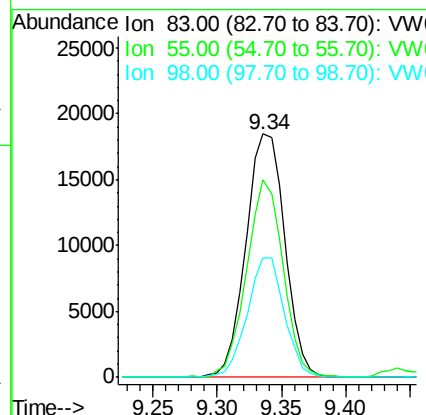
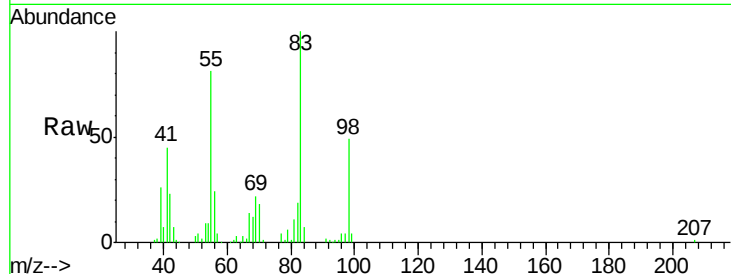
#39
Methvlcvclohexane
Concen: 9.87 ug/l
RT: 9.34 min Scan# 1271
Delta R.T. -0.01 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2018

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.5	56.4	84.6
98	49.1	38.2	57.4

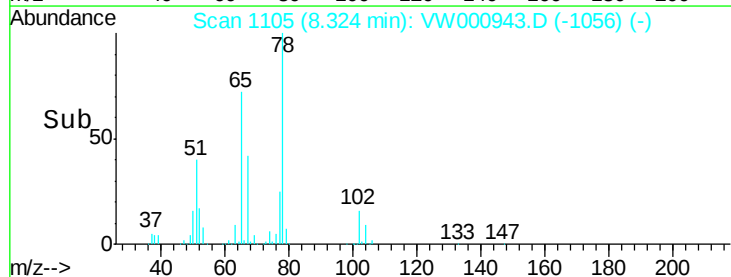
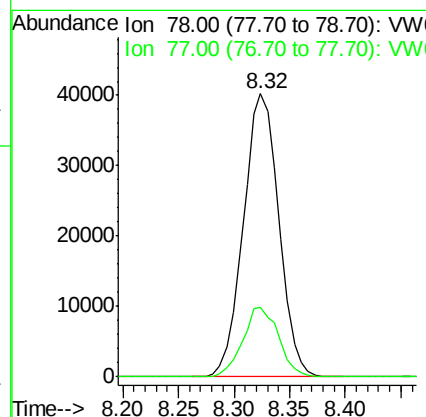
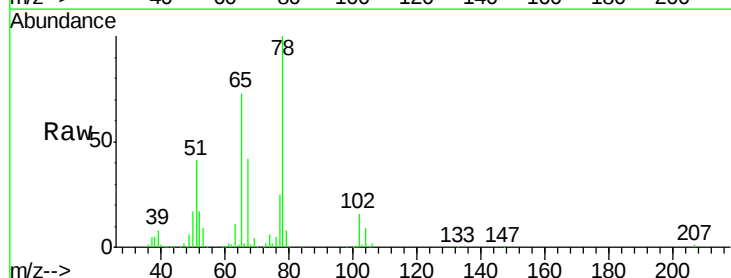
Manual Integrations
APPROVED

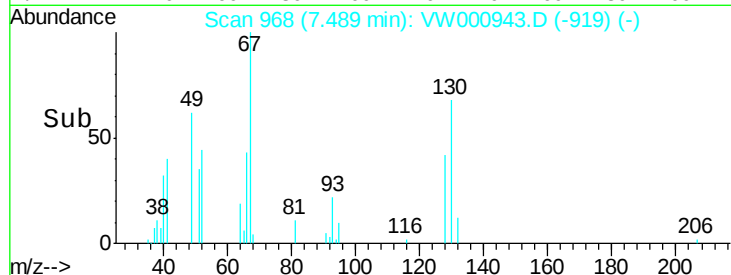
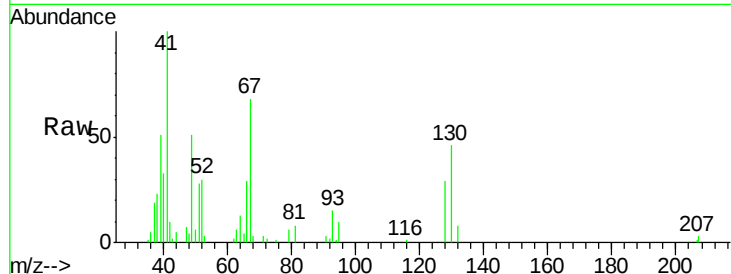
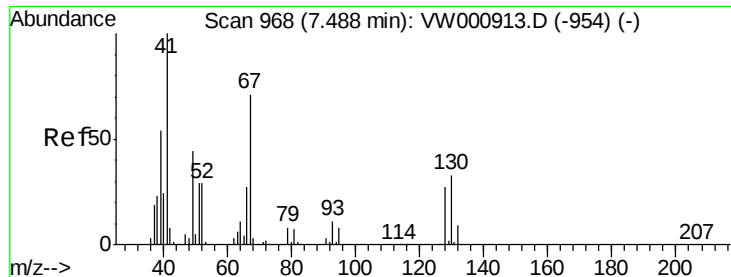
MMDadoda
1/25/2018 1:33:55 PM



#40
Benzene
Concen: 10.07 ug/l
RT: 8.32 min Scan# 1105
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.6	19.0	28.6





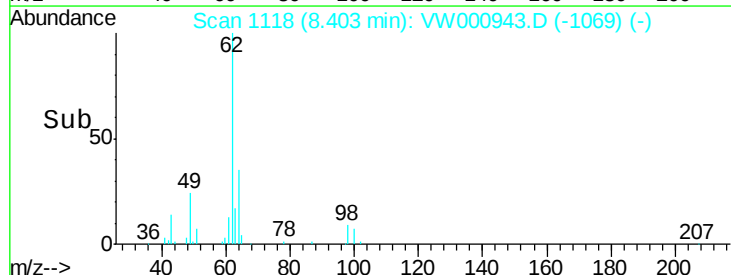
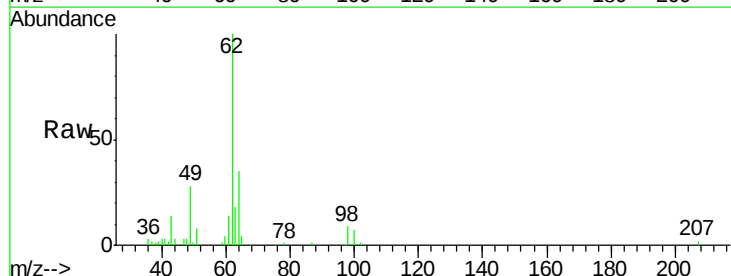
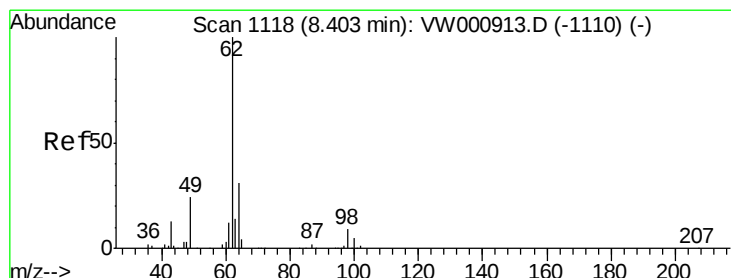
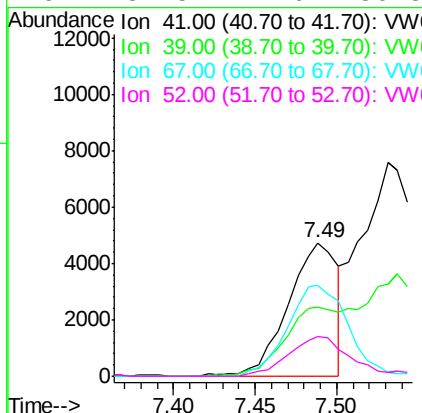
#41
Methacrylonitrile
Concen: 9.66 ug/l
RT: 7.49 min Scan# 968
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tot Ion	Ratio	Lower	Upper
41	100		
39	56.6	43.4	65.0
67	83.9	59.0	88.4
52	37.5	24.6	36.8

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2018

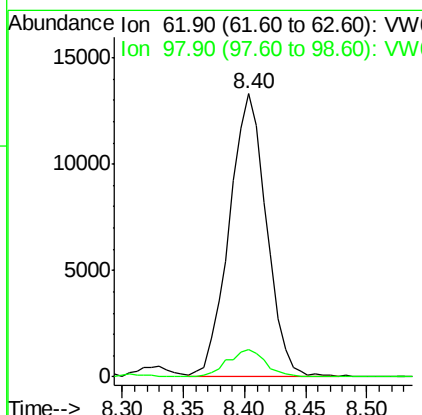
Manual Integrations
APPROVED

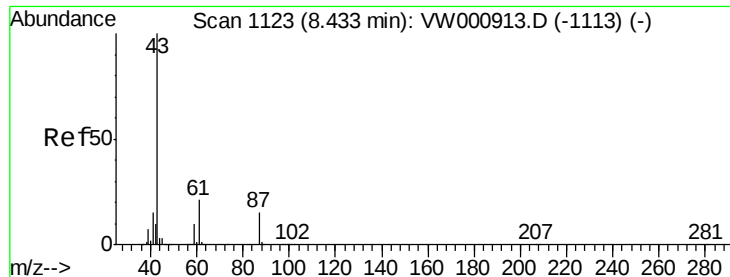
MMDadoda
1/25/2018 1:33:55 PM



#42
1,2-Dichloroethane
Concen: 10.28 ug/l
RT: 8.40 min Scan# 1118
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.8	0.0	18.0





#43

Isopropyl Acetate

Concen: 10.37 ug/l

RT: 8.43 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

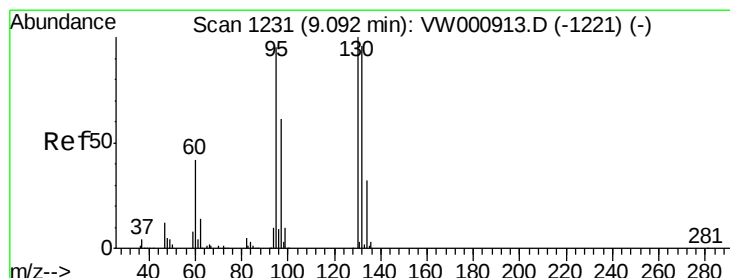
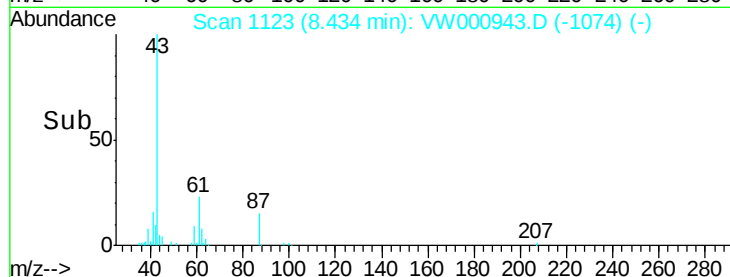
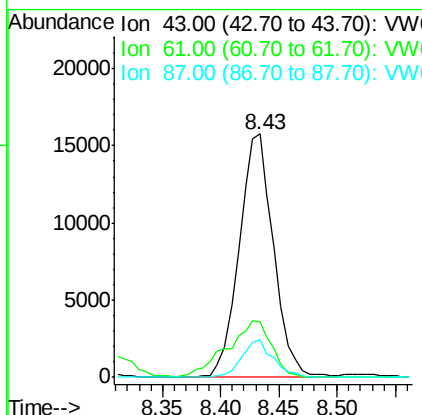
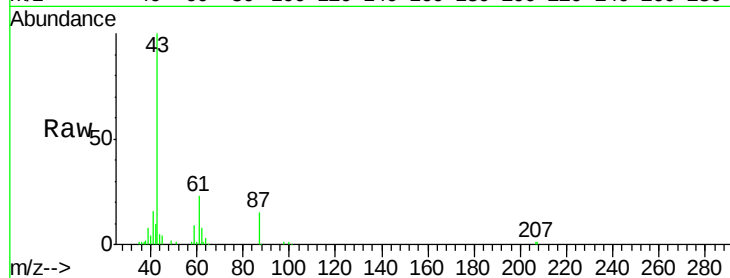
ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion:	43	Resp:	32279
Ion	Ratio	Lower	Upper
43	100		
61	30.1	23.6	35.4
87	14.1	11.7	17.5

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#44

Trichloroethene

Concen: 10.30 ug/l

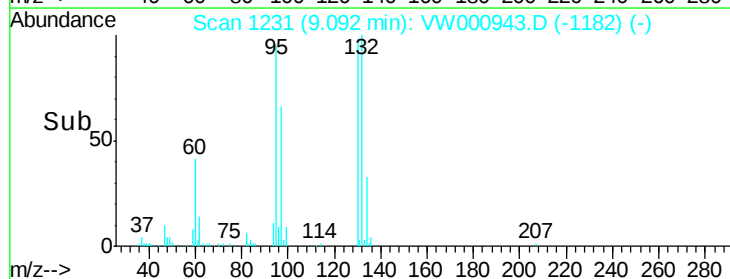
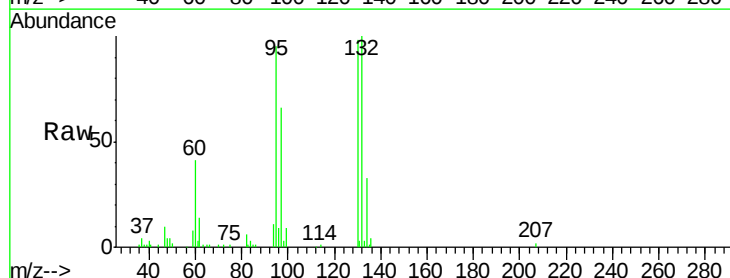
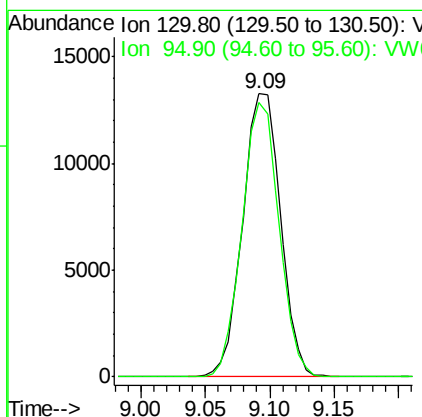
RT: 9.09 min Scan# 1231

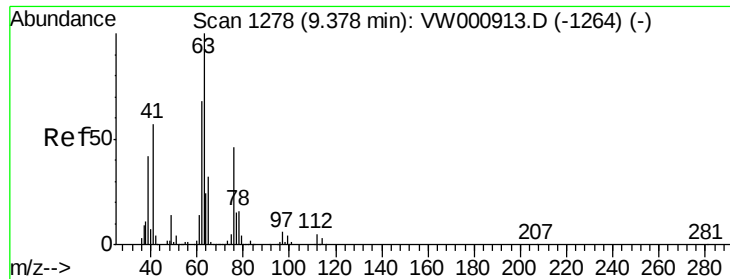
Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Tgt Ion:	130	Resp:	27092
Ion	Ratio	Lower	Upper
130	100		
95	97.1	0.0	190.4





#45

1,2-Dichloropropane

Concen: 10.28 ug/l

RT: 9.37 min Scan# 1277

Delta R.T. -0.01 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion: 63 Resp: 21232

Ion Ratio Lower Upper

63 100

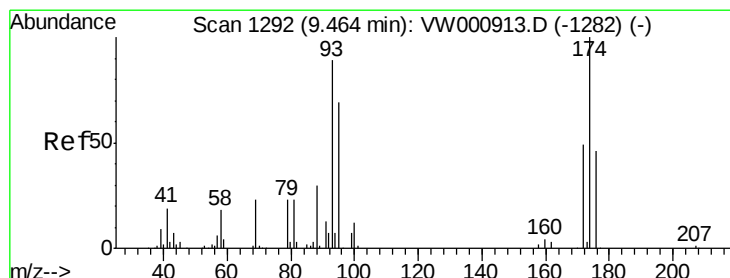
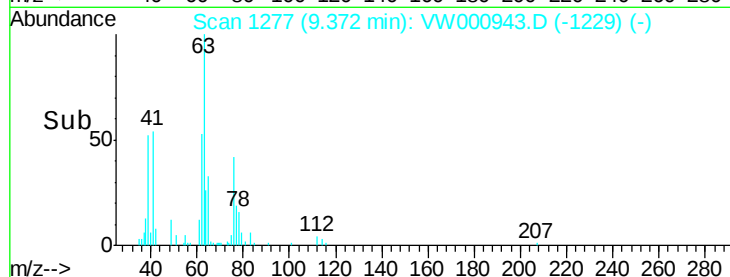
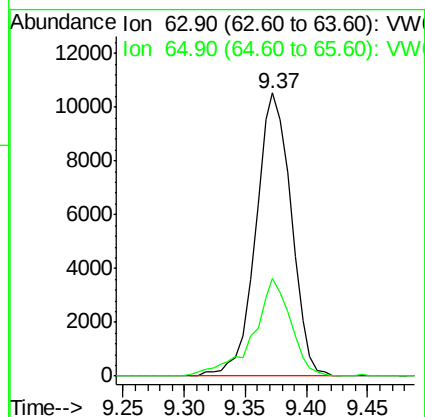
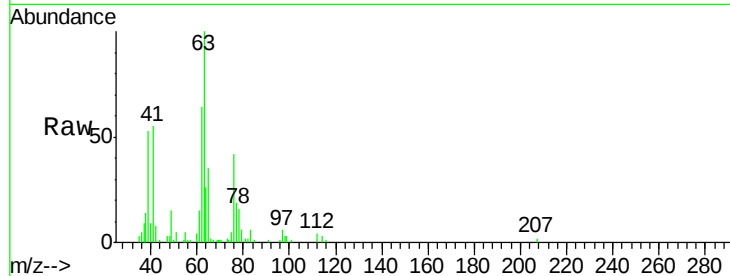
65 34.6 25.2 37.8

Manual Integrations

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#46

Dibromomethane

Concen: 9.89 ug/l

RT: 9.46 min Scan# 1291

Delta R.T. -0.01 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

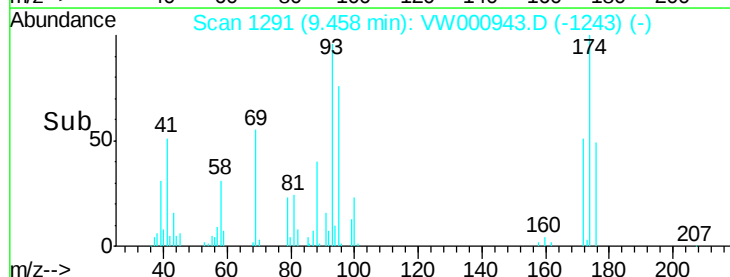
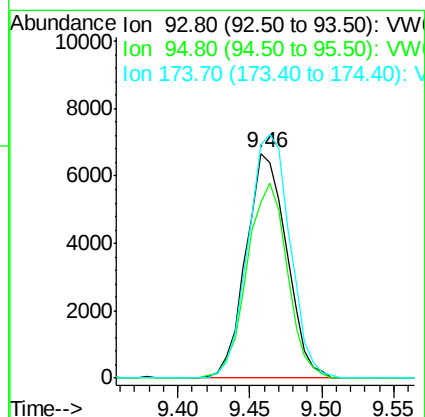
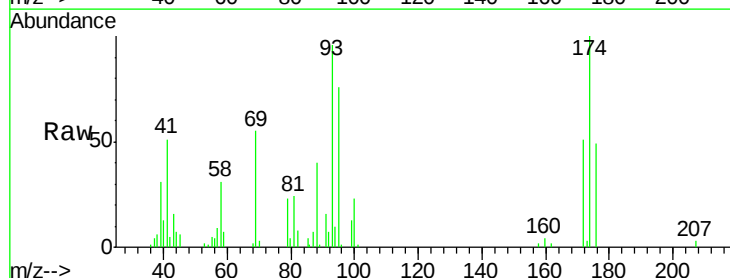
Tgt Ion: 93 Resp: 13048

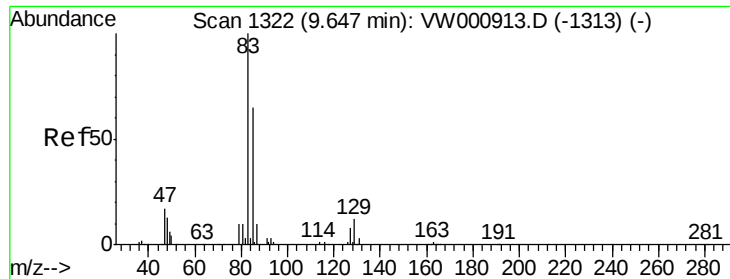
Ion Ratio Lower Upper

93 100

95 85.6 65.8 98.6

174 111.4 89.0 133.6





#47

Bromodichloromethane

Concen: 9.95 ug/l

RT: 9.65 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

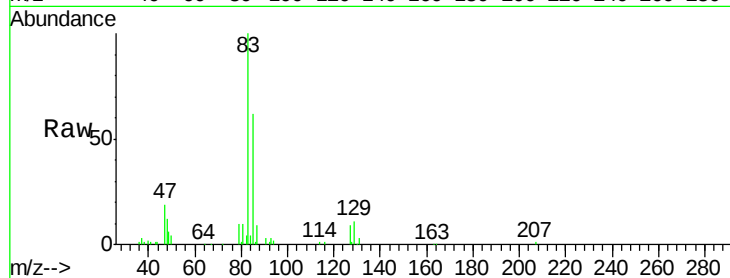
ClientSampleId :

LOQ-SOIL-02-QT1-2018

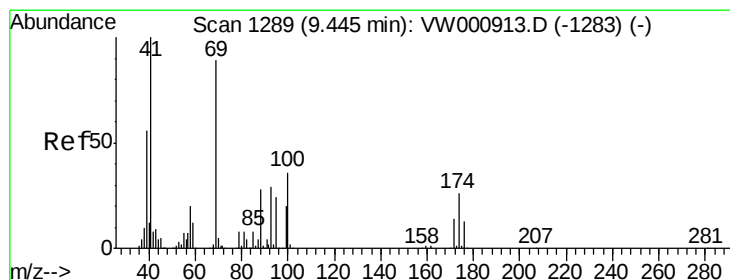
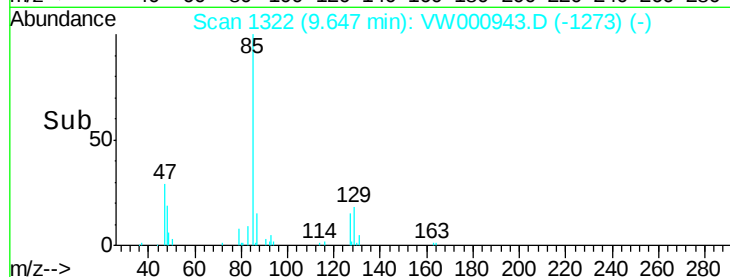
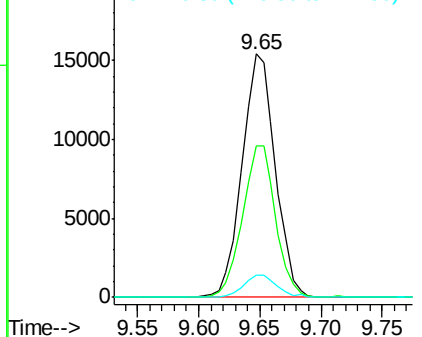
Tot Ion:	83	Resp:	29020
Ion	Ratio	Lower	Upper
83	100		
85	62.1	52.0	78.0
127	9.1	6.8	10.2

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 84.90 (84.60 to 85.60): VW
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 9.69 ug/l

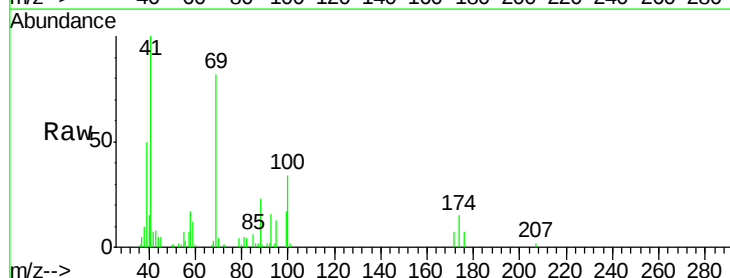
RT: 9.44 min Scan# 1288

Delta R.T. -0.01 min

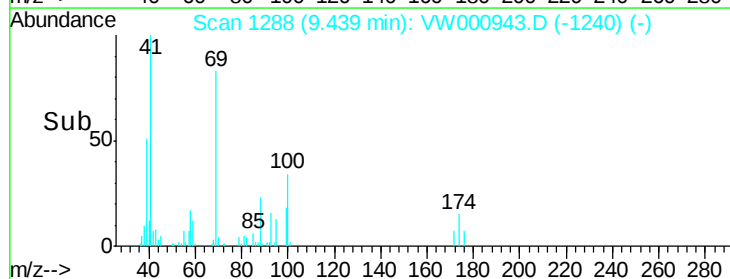
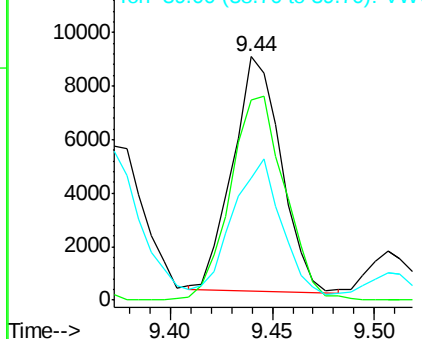
Lab File: VW000943.D

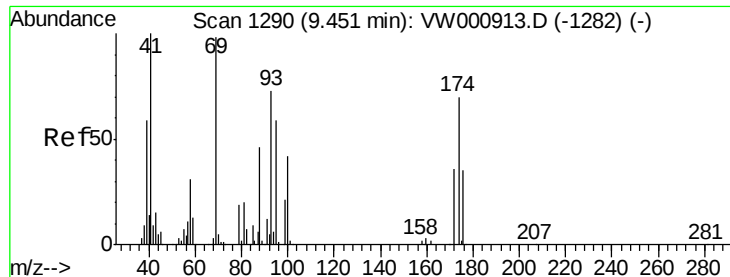
Acq: 24 Jan 2018 12:46

Tgt Ion:	41	Resp:	14494
Ion	Ratio	Lower	Upper
41	100		
69	97.8	72.9	109.3
39	64.1	48.4	72.6



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





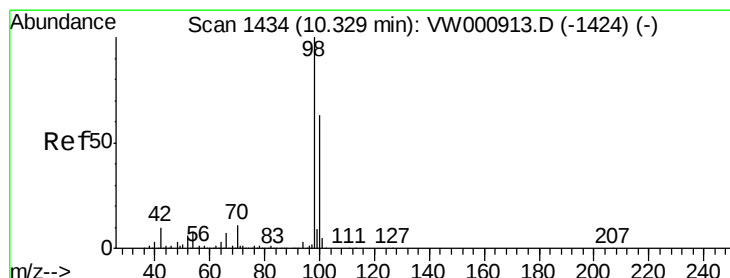
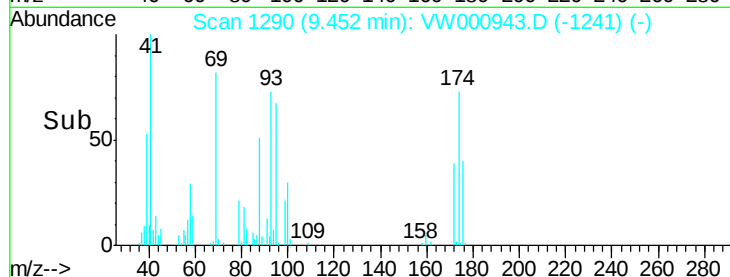
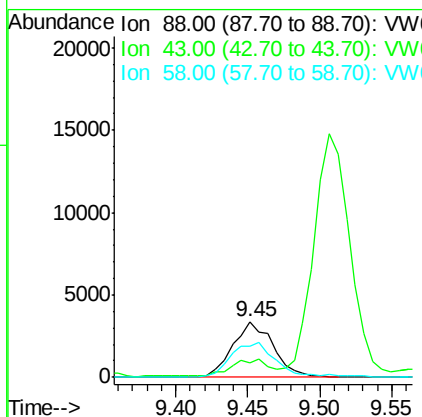
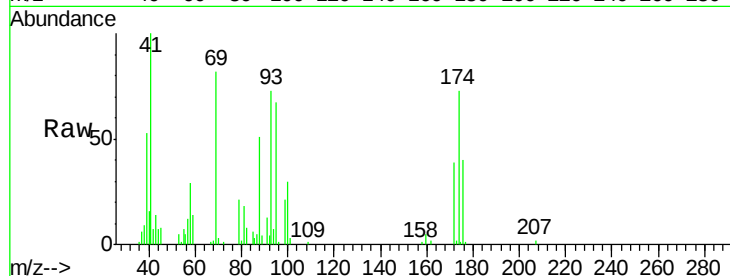
#49
1,4-Dioxane
Concen: 229.53 ug/l
RT: 9.45 min Scan# 1290
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2018

Tot Ion	Ratio	Lower	Upper
88	100		
43	28.1	24.5	36.7
58	68.9	54.7	82.1

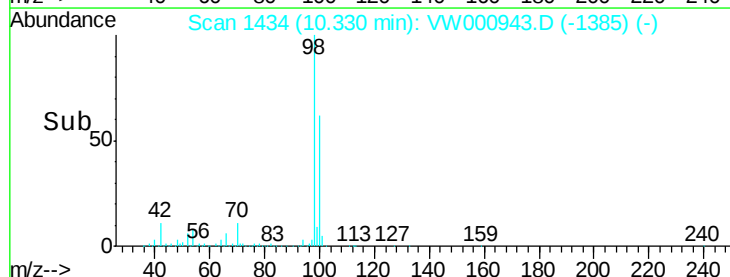
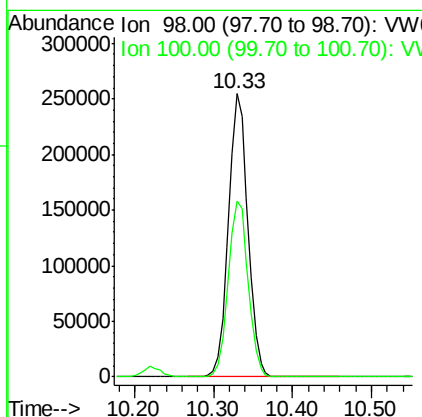
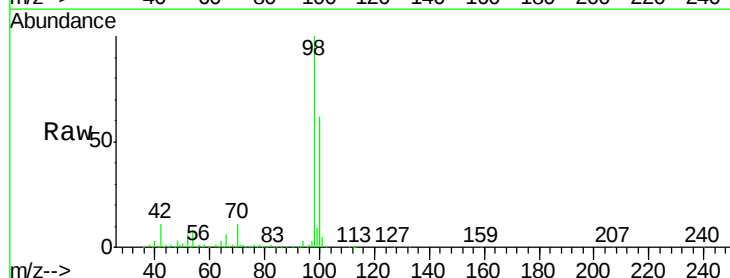
Manual Integrations
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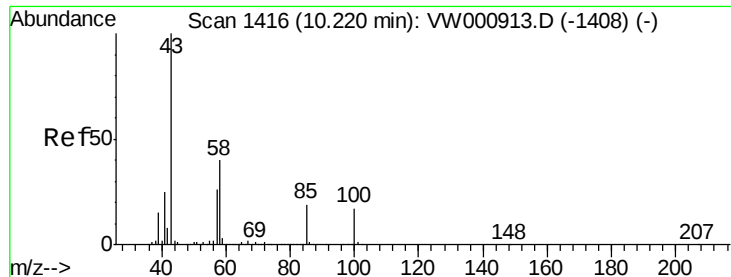
MMDadoda
1/25/2018 1:33:55 PM



#50
Toluene-d8
Concen: 52.90 ug/l
RT: 10.33 min Scan# 1434
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.6	50.8	76.2





#51

4-Methyl-2-Pentanone

Concen: 52.34 ug/l

RT: 10.22 min Scan# 1416

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion: 43 Resp: 93787

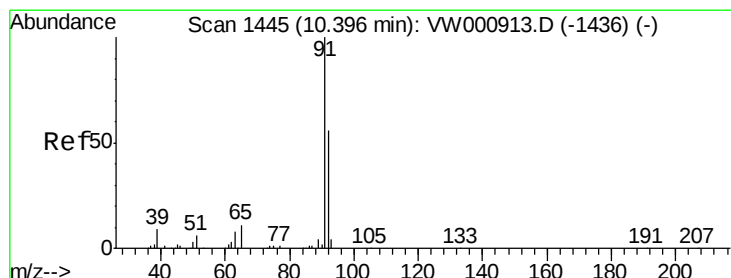
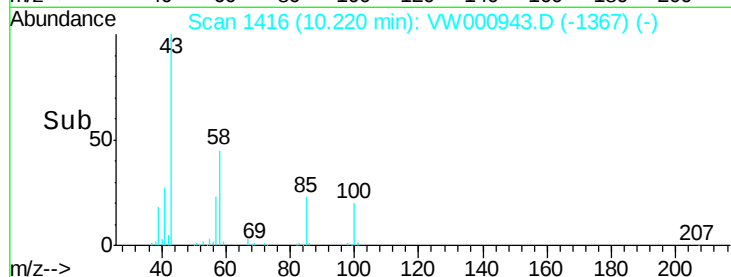
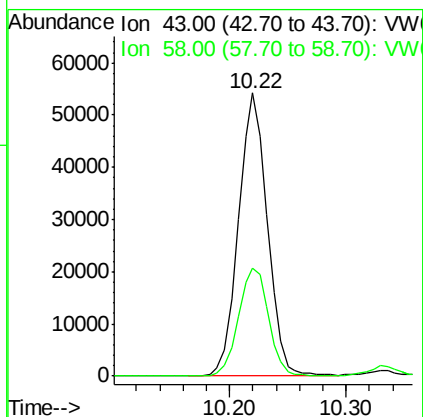
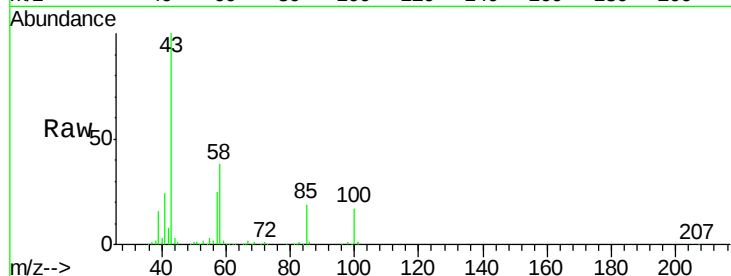
Ion Ratio Lower Upper

43 100

58 39.7 32.0 48.0

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#52

Toluene

Concen: 10.32 ug/l

RT: 10.40 min Scan# 1445

Delta R.T. 0.00 min

Lab File: VW000943.D

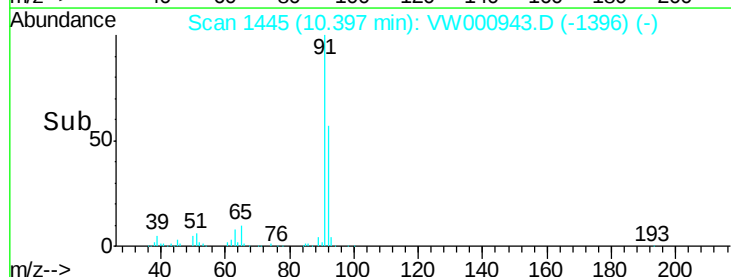
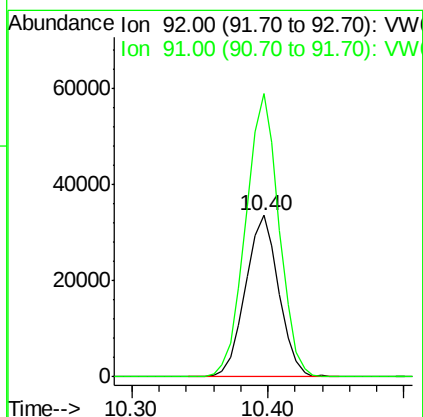
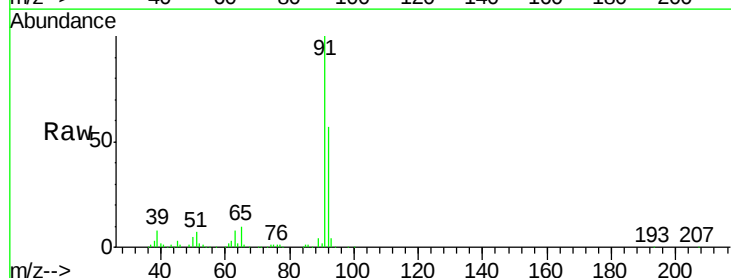
Acq: 24 Jan 2018 12:46

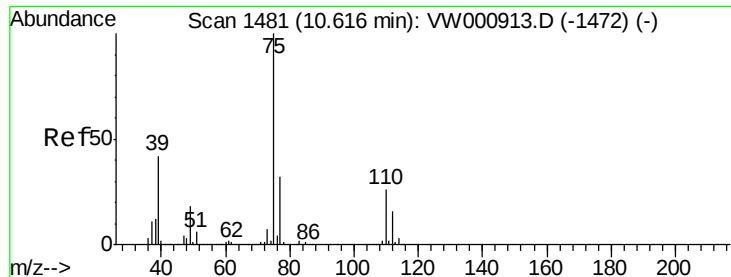
Tgt Ion: 92 Resp: 57664

Ion Ratio Lower Upper

92 100

91 175.4 140.7 211.1





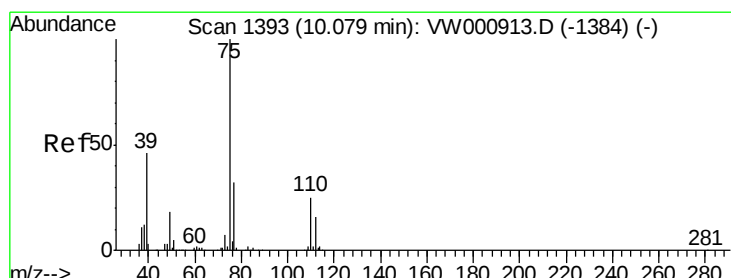
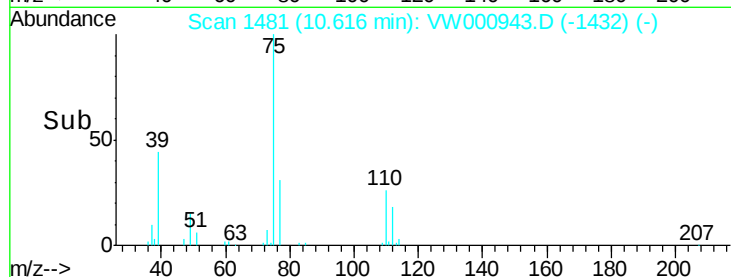
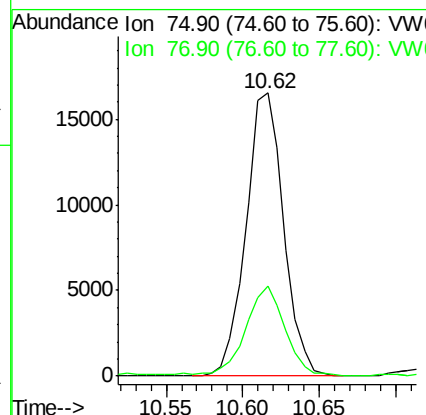
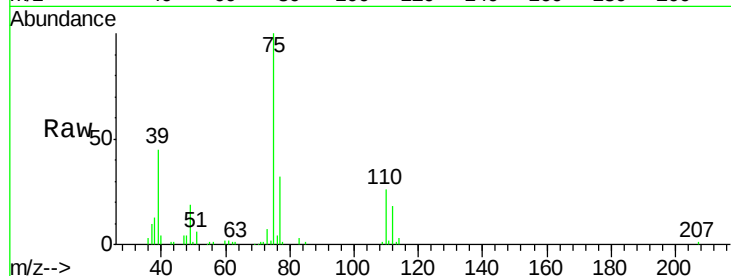
#53
t-1,3-Dichloropropene
Concen: 9.52 ug/l
RT: 10.62 min Scan# 1481
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2018

Tot Ion: 75 Resp: 28146
Ion Ratio Lower Upper
75 100
77 31.8 25.7 38.5

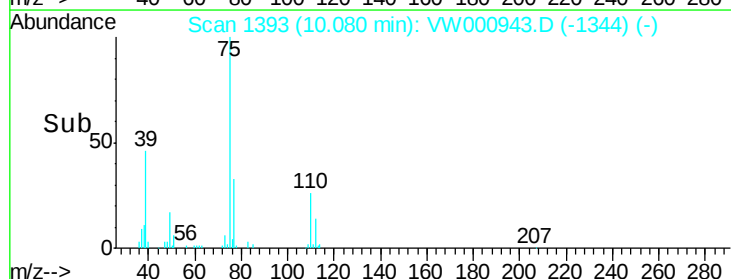
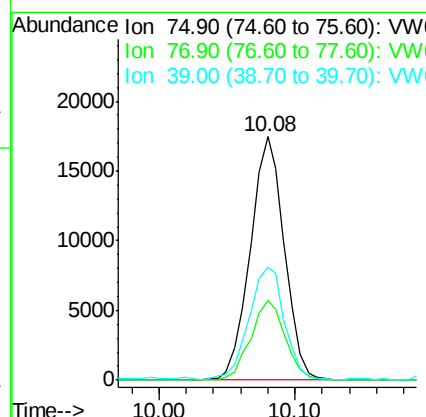
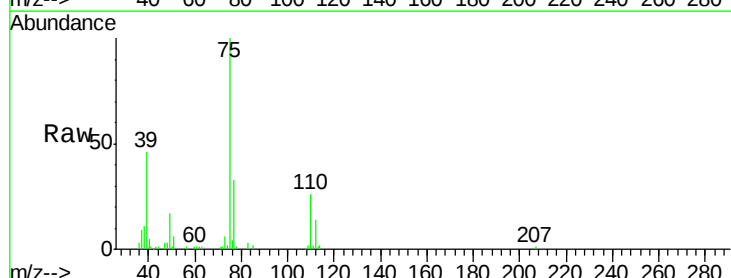
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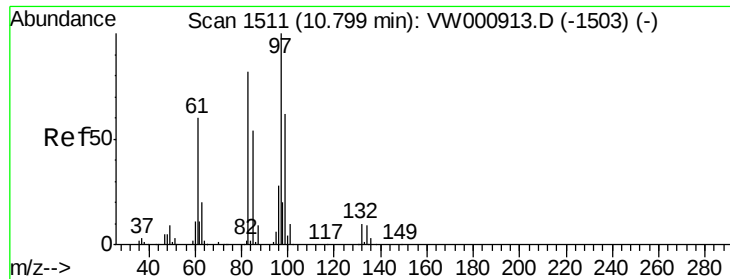
MMDadoda
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#54
cis-1,3-Dichloropropene
Concen: 9.42 ug/l
RT: 10.08 min Scan# 1393
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion: 75 Resp: 30611
Ion Ratio Lower Upper
75 100
77 32.9 25.3 37.9
39 46.0 37.0 55.6





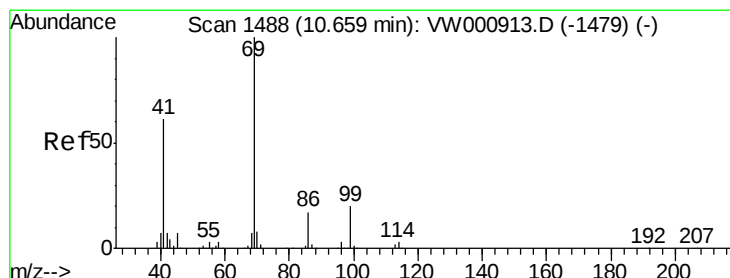
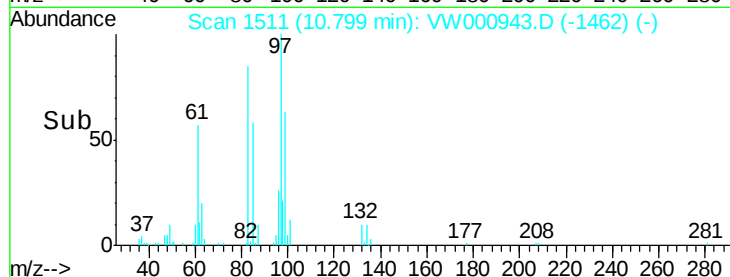
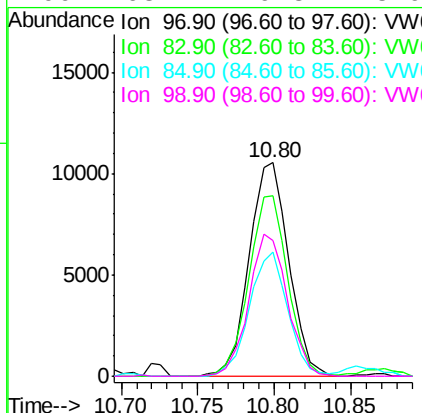
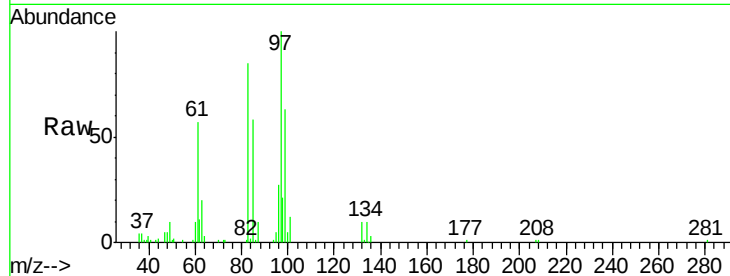
#55
 1,1,2-Trichloroethane
 Concen: 10.29 ug/l
 RT: 10.80 min Scan# 1511
 Delta R.T. 0.00 min
 Lab File: VW000943.D
 Acq: 24 Jan 2018 12:46

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2018

Tot Ion:	97	Resp:	18945
Ion	Ratio	Lower	Upper
97	100		
83	84.7	65.2	97.8
85	58.2	43.1	64.7
99	63.4	49.3	73.9

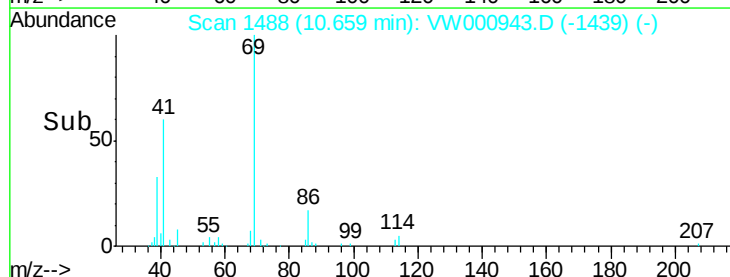
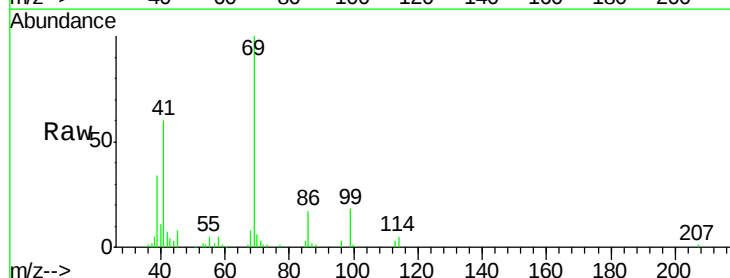
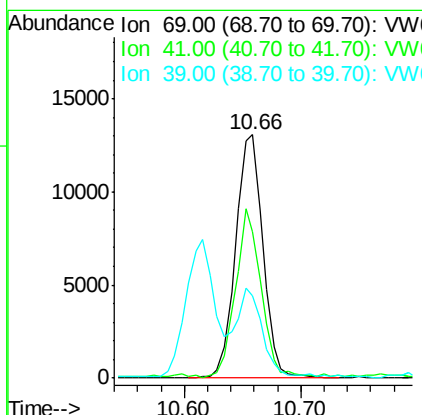
Manual Integrations
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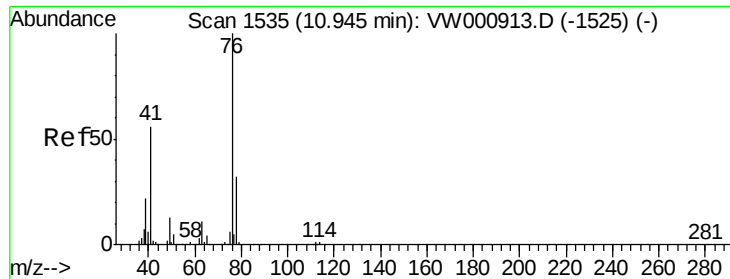
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#56
 Ethyl methacrylate
 Concen: 11.35 ug/l
 RT: 10.66 min Scan# 1488
 Delta R.T. 0.00 min
 Lab File: VW000943.D
 Acq: 24 Jan 2018 12:46

Tgt Ion:	69	Resp:	21412
Ion	Ratio	Lower	Upper
69	100		
41	66.0	50.3	75.5
39	34.0	28.6	42.8





#57

1,3-Dichloropropane

Concen: 10.47 ug/l

RT: 10.94 min Scan# 1534

Delta R.T. -0.01 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion: 76 Resp: 31503

Ion Ratio Lower Upper

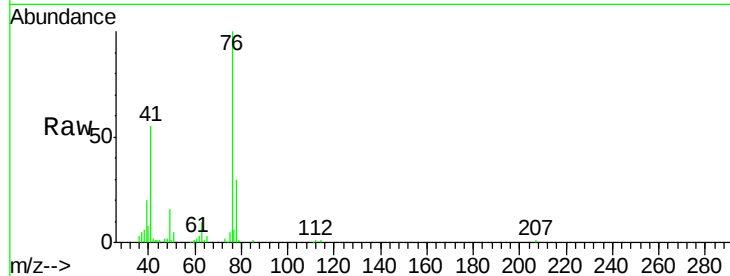
76 100

78 32.7 25.8 38.8

Manual Integrations
APPROVED

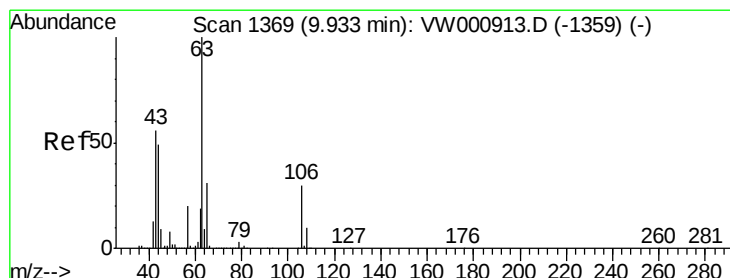
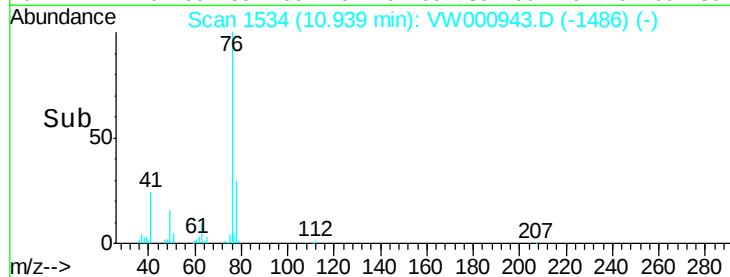
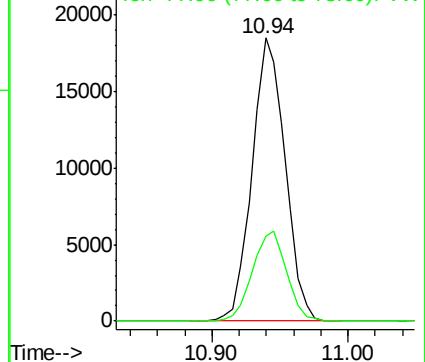
MMDadoda

1/25/2018 1:33:55 PM



Abundance Ion 75.90 (75.60 to 76.60): VW

Ion 77.90 (77.60 to 78.60): VW



#58

2-Chloroethyl Vinyl ether

Concen: 49.26 ug/l

RT: 9.93 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VW000943.D

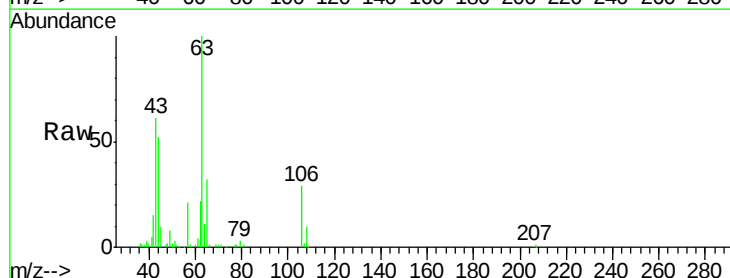
Acq: 24 Jan 2018 12:46

Tgt Ion: 63 Resp: 36636

Ion Ratio Lower Upper

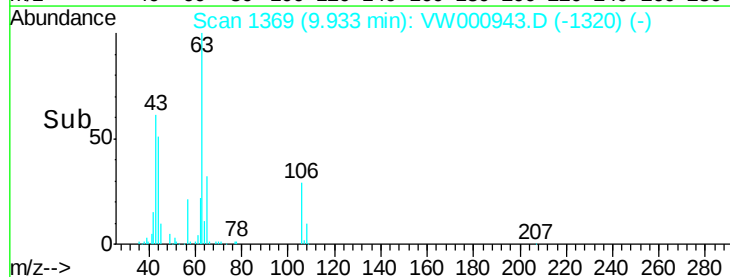
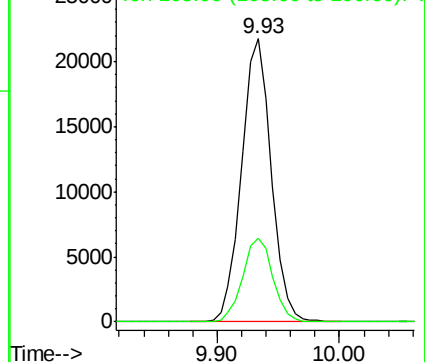
63 100

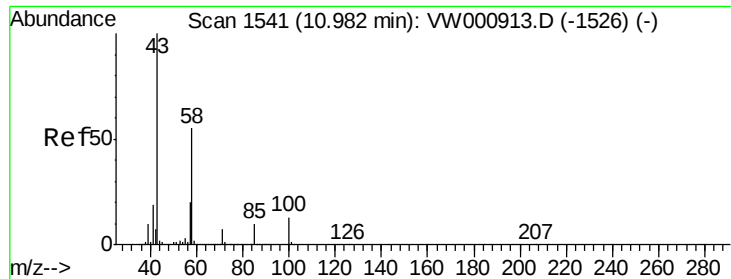
106 29.8 23.8 35.8



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 105.90 (105.60 to 106.60): V





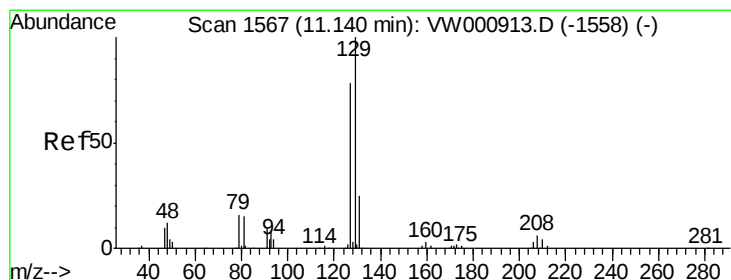
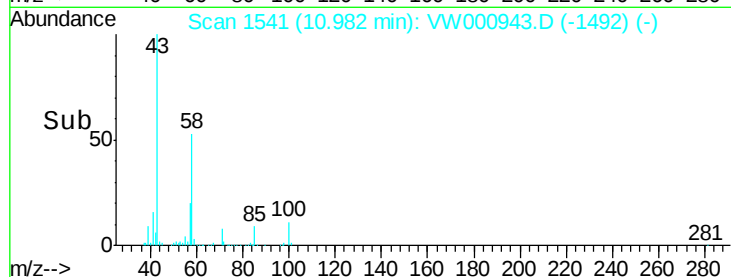
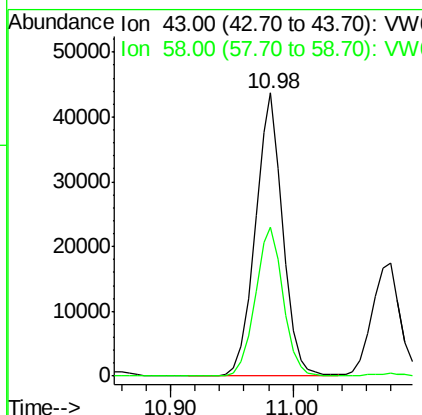
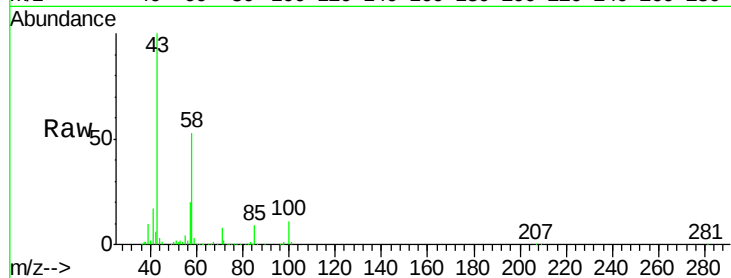
#59
2-Hexanone
Concen: 55.24 ug/l
RT: 10.98 min Scan# 1541
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2018

Tot Ion: 43 Resp: 67893
Ion Ratio Lower Upper
43 100
58 53.8 27.4 82.2

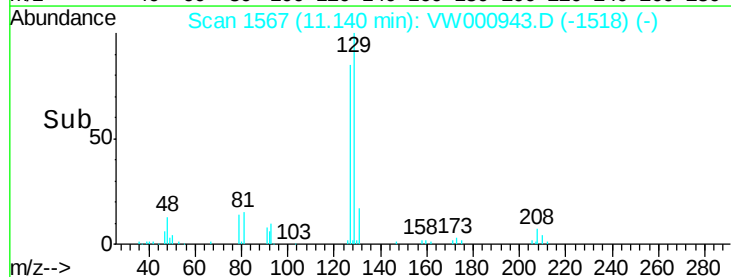
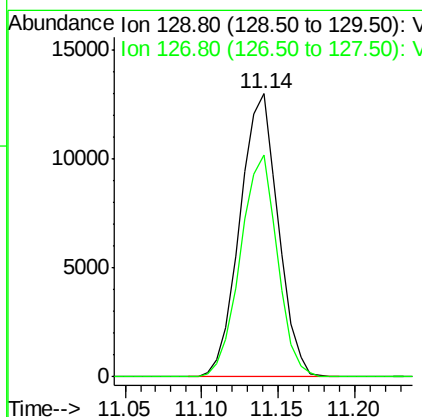
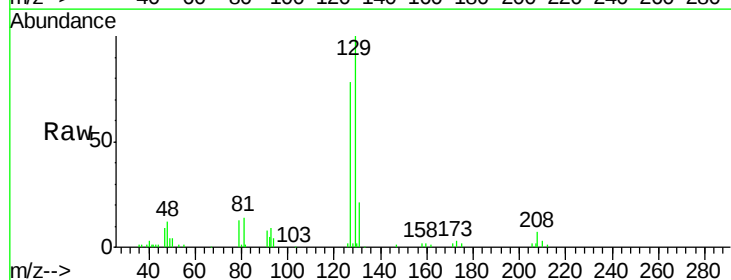
Manual Integrations
APPROVED

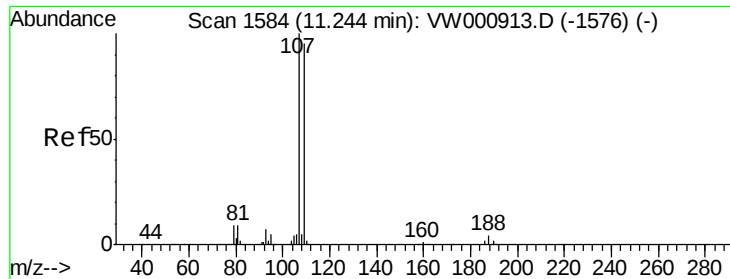
MMDadoda
1/25/2018 1:33:55 PM



#60
Dibromochloromethane
Concen: 10.16 ug/l
RT: 11.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion: 129 Resp: 22594
Ion Ratio Lower Upper
129 100
127 75.5 38.4 115.2





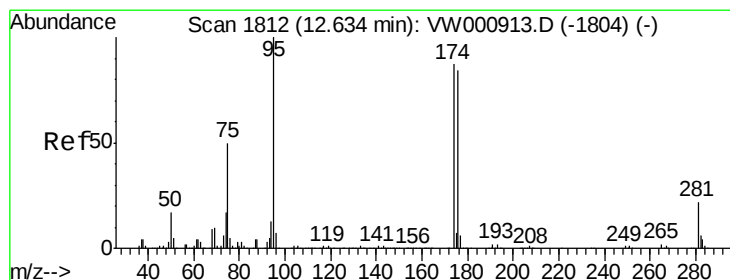
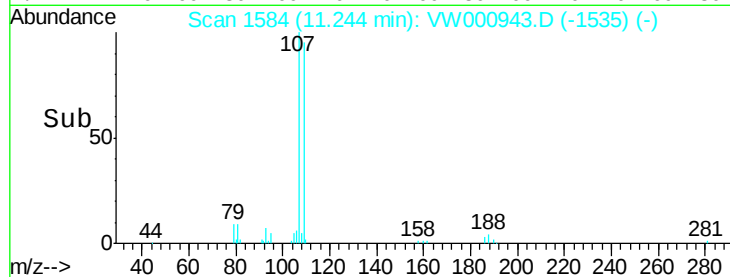
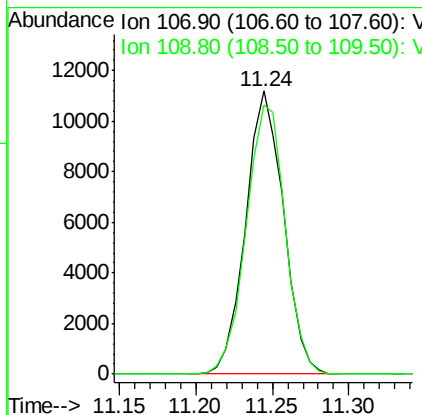
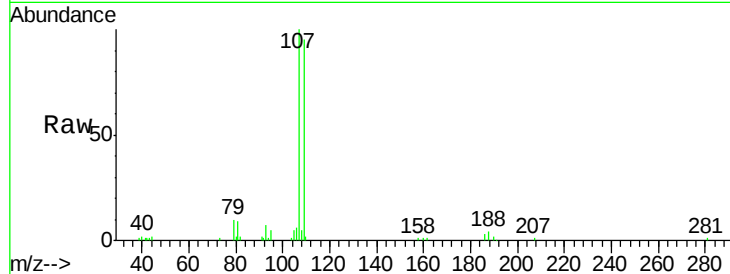
#61
 1,2-Dibromoethane
 Concen: 10.03 ug/l
 RT: 11.24 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: VW000943.D
 Acq: 24 Jan 2018 12:46

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2018

Tot Ion: 107 Resp: 19255
 Ion Ratio Lower Upper
 107 100
 109 98.1 76.0 114.0

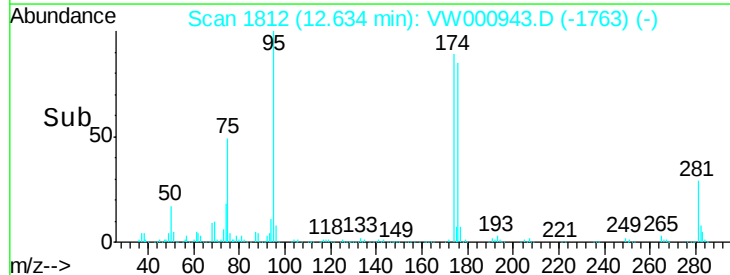
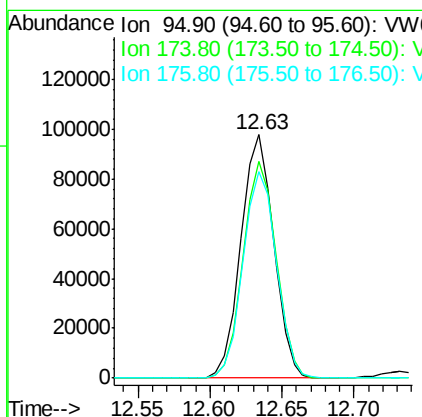
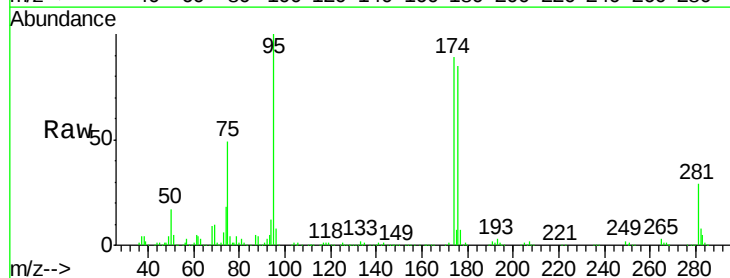
Manual Integrations
 APPROVED

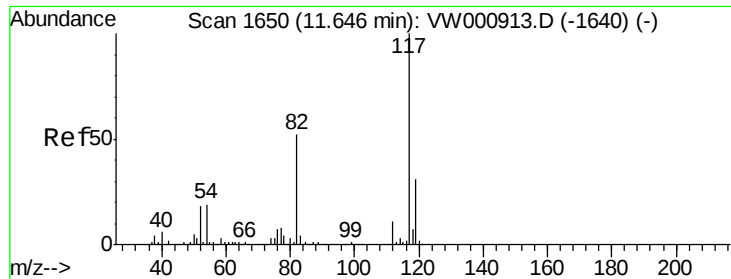
MMDadoda
 1/25/2018 1:33:55 PM



#62
 4-Bromofluorobenzene
 Concen: 51.65 ug/l
 RT: 12.63 min Scan# 1812
 Delta R.T. 0.00 min
 Lab File: VW000943.D
 Acq: 24 Jan 2018 12:46

Tgt Ion: 95 Resp: 154950
 Ion Ratio Lower Upper
 95 100
 174 89.1 0.0 176.8
 176 86.2 0.0 171.8





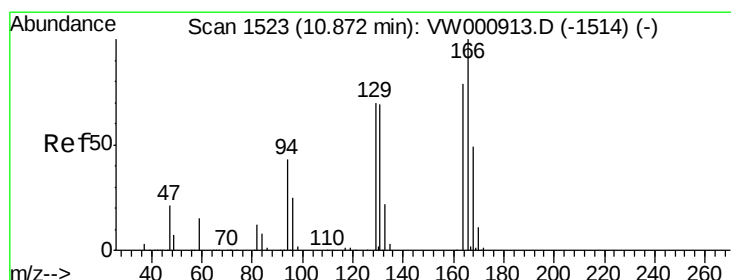
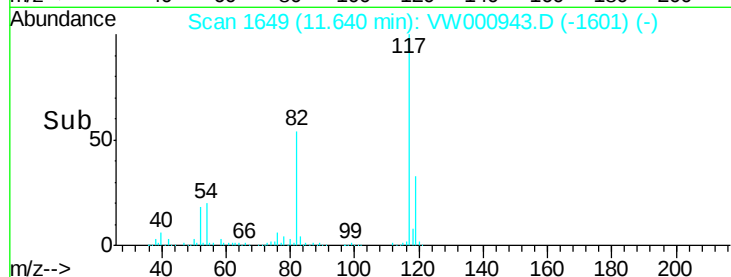
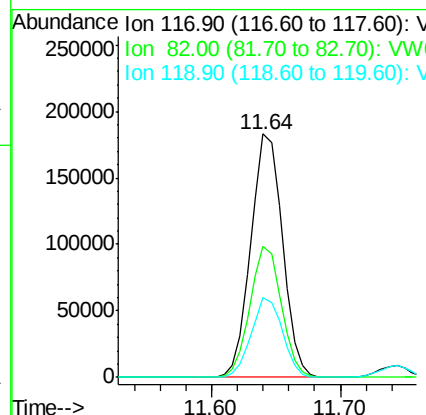
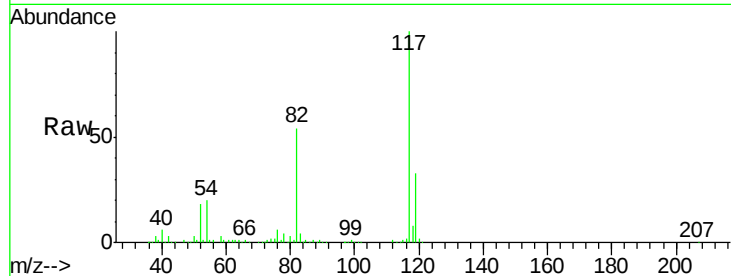
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.64 min Scan# 1649
Delta R.T. -0.01 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2018

Tot Ion	Ratio	Resp	Lower	Upper
117	100	310186		
82	53.9	41.8	62.6	
119	32.8	25.2	37.8	

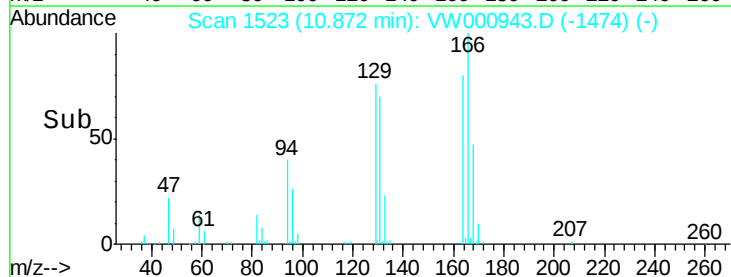
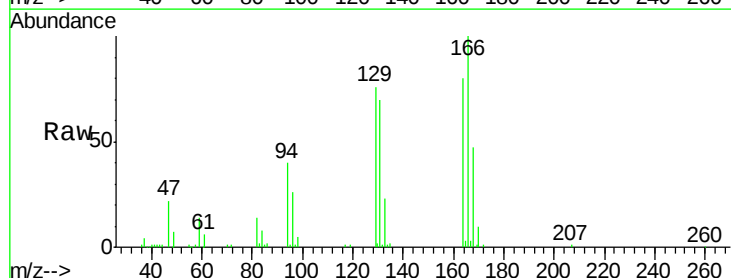
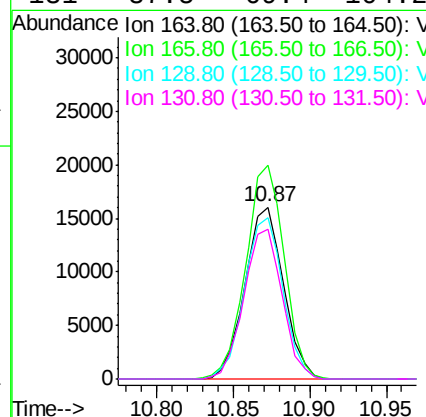
Manual Integrations
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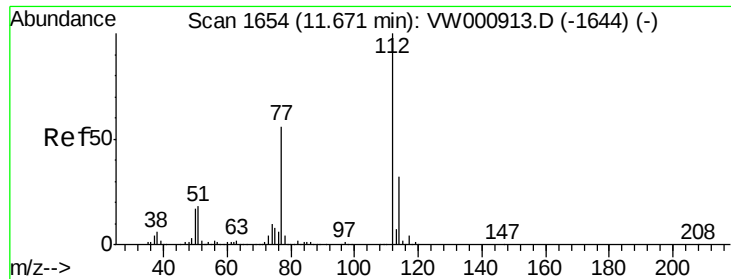
MMDadoda
1/25/2018 1:33:55 PM



#64
Tetrachloroethene
Concen: 10.93 ug/l
RT: 10.87 min Scan# 1523
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	28138		
166	124.5	100.9	151.3	
129	94.1	70.5	105.7	
131	87.5	69.4	104.2	





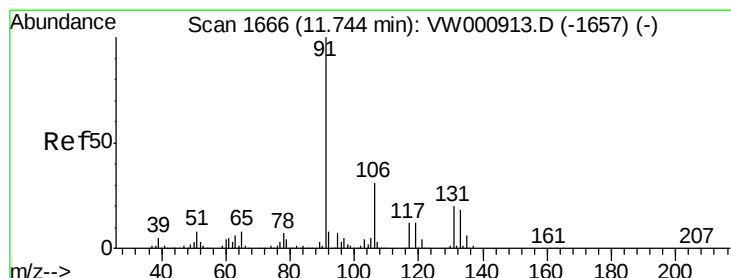
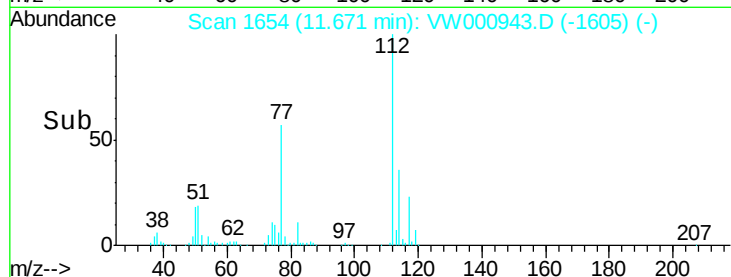
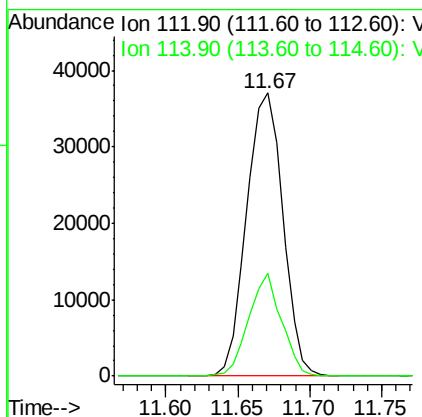
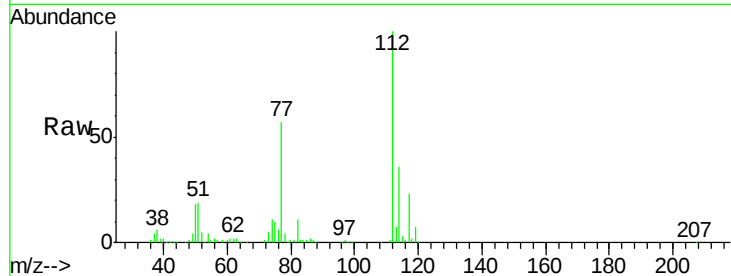
#65
Chlorobenzene
Concen: 10.16 ug/l
RT: 11.67 min Scan# 1654
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2018

Tot Ion	Ratio	Lower	Upper
112	100		
114	36.2	25.8	38.6

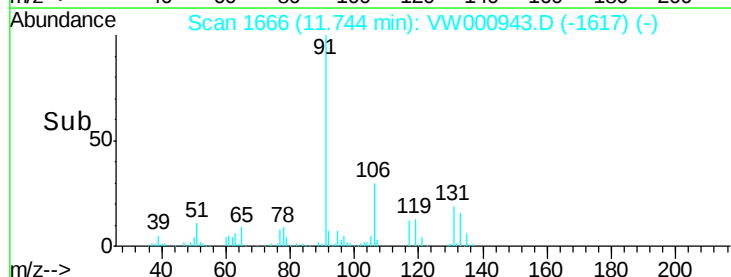
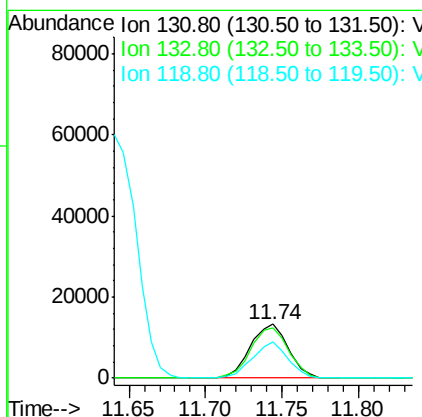
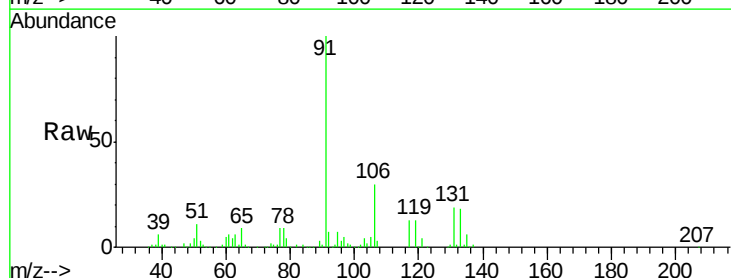
Manual Integrations
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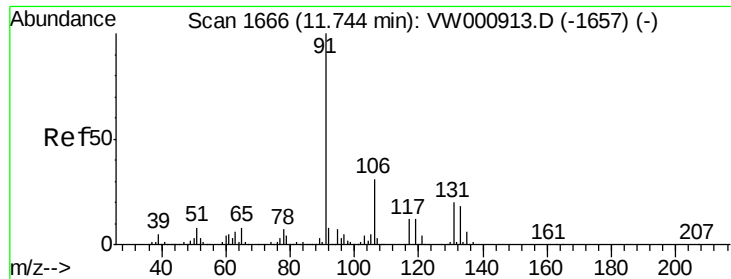
MMDadoda
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#66
1,1,1,2-Tetrachloroethane
Concen: 10.08 ug/l
RT: 11.74 min Scan# 1666
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
131	100		
133	93.5	47.3	142.0
119	62.6	31.6	94.7





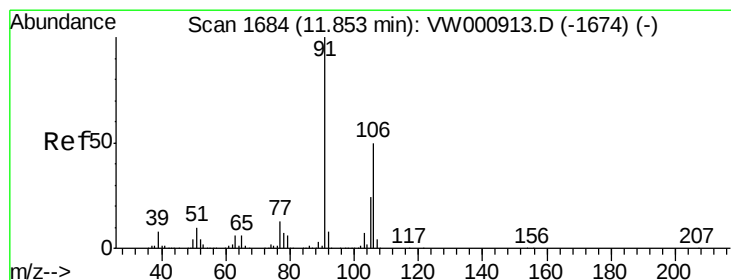
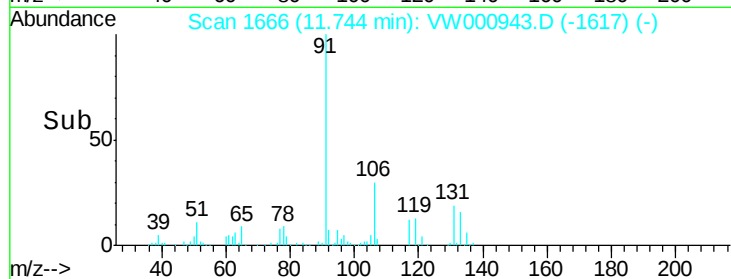
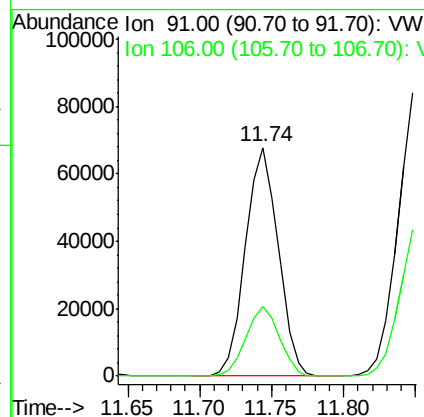
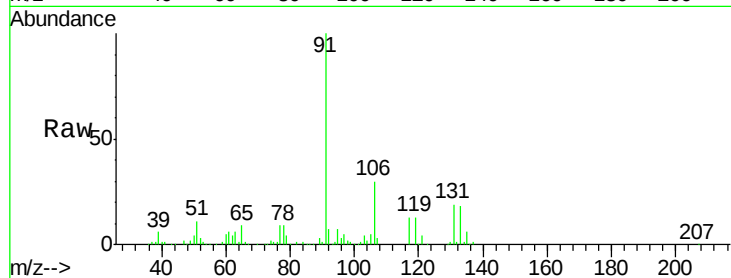
#67
Ethyl Benzene
Concen: 10.01 ug/l
RT: 11.74 min Scan# 1666
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2018

Tot Ion: 91 Resp: 107572
Ion Ratio Lower Upper
91 100
106 30.5 25.1 37.7

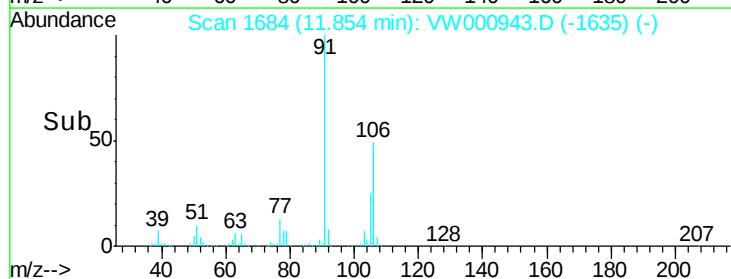
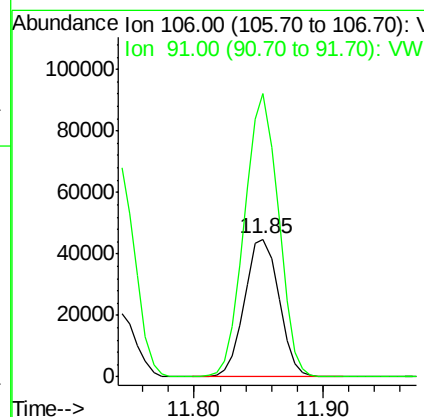
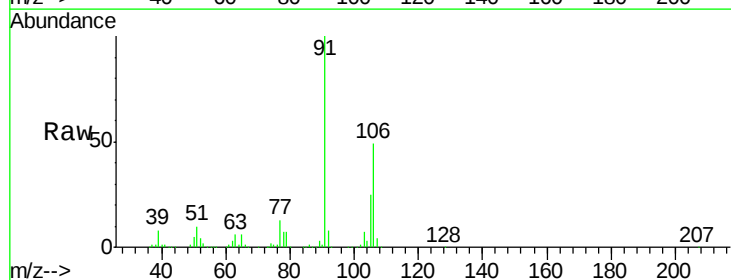
Manual Integrations
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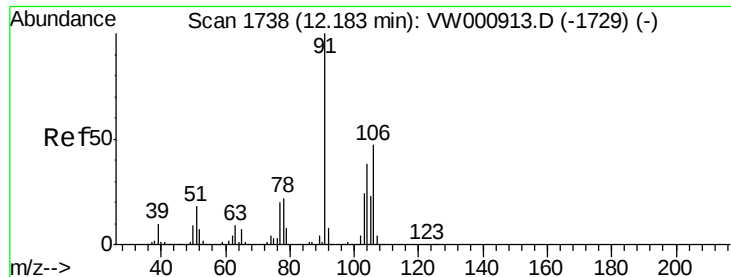
MMDadoda
1/25/2018 1:33:55 PM



#68
m/p-Xylenes
Concen: 19.87 ug/l
RT: 11.85 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion: 106 Resp: 83037
Ion Ratio Lower Upper
106 100
91 203.2 161.9 242.9





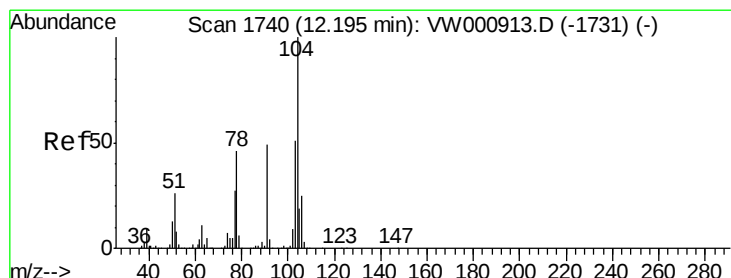
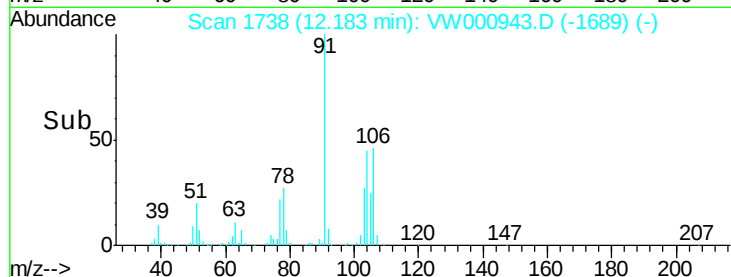
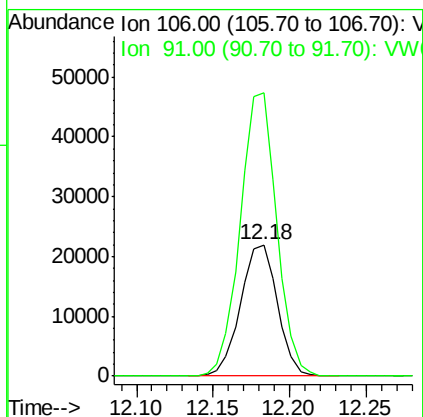
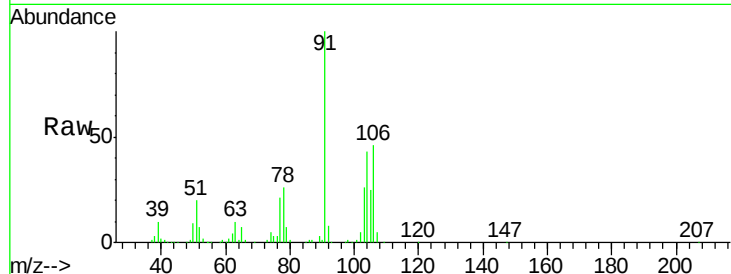
#69
o-Xylene
Concen: 9.61 ug/l
RT: 12.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2018

Tot Ion:106 Resp: 36805
Ion Ratio Lower Upper
106 100
91 213.1 106.3 318.8

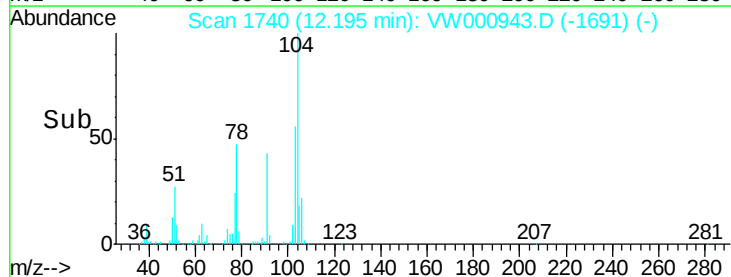
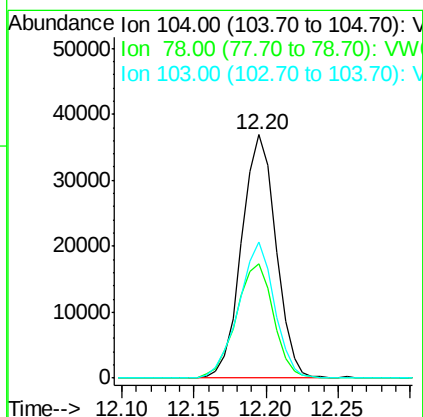
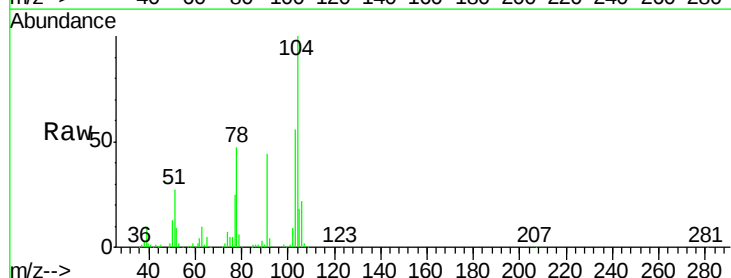
Manual Integrations
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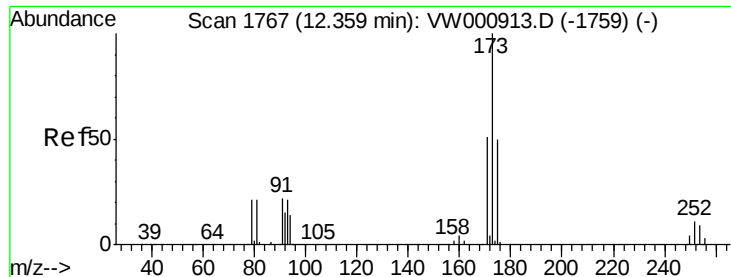
MMDadoda
1/25/2018 1:33:55 PM



#70
Styrene
Concen: 9.77 ug/l
RT: 12.20 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion:104 Resp: 61001
Ion Ratio Lower Upper
104 100
78 51.0 40.1 60.1
103 58.2 44.6 66.8





#71

Bromoform

Concen: 9.76 ug/l

RT: 12.36 min Scan# 1767

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

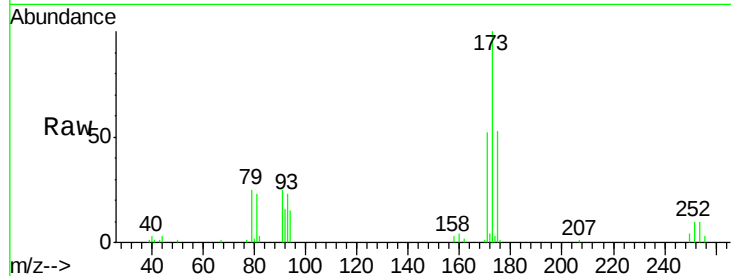
ClientSampleId :

LOQ-SOIL-02-QT1-2018

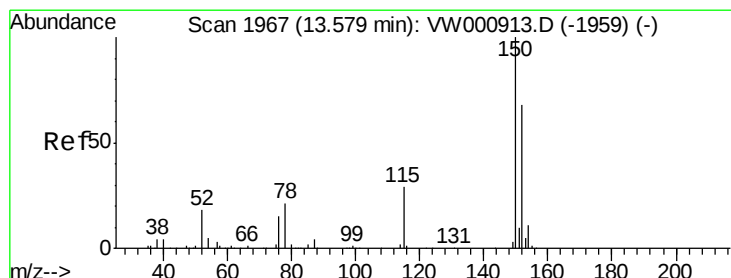
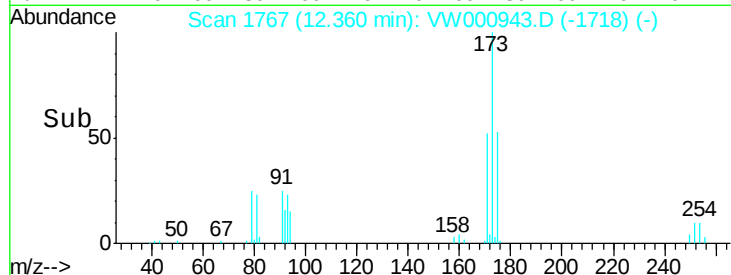
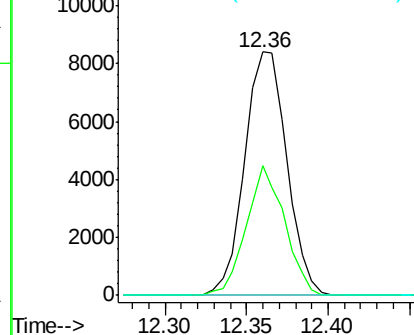
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.7	74.1
254	0.0	0.2	0.2

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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

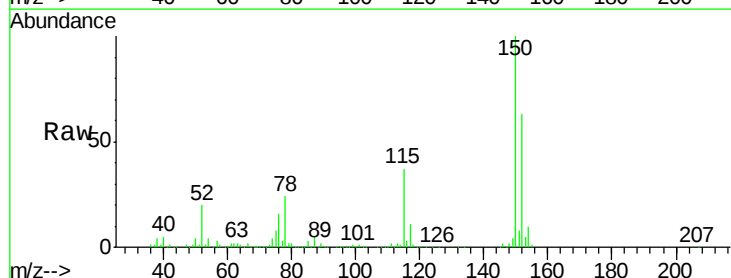
RT: 13.57 min Scan# 1966

Delta R.T. -0.01 min

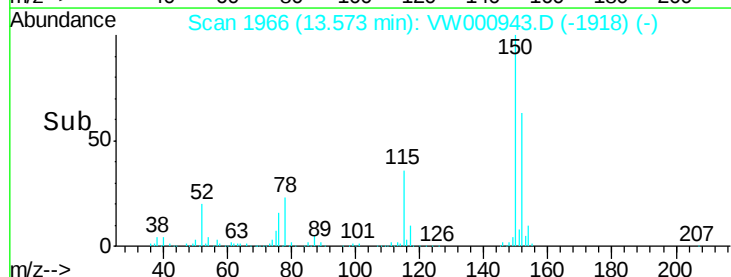
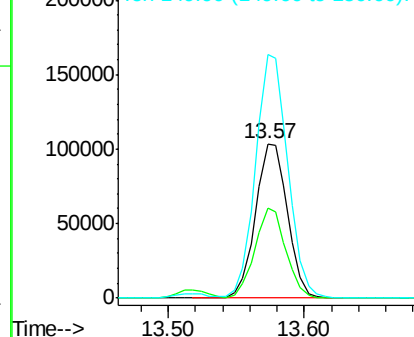
Lab File: VW000943.D

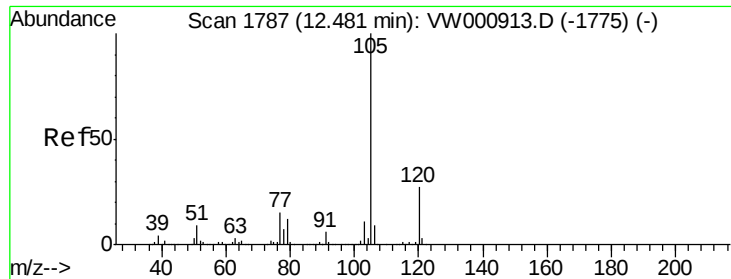
Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.6	28.5	85.5
150	159.2	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: 9.57 ug/l

RT: 12.48 min Scan# 1787

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion: 105 Resp: 105334

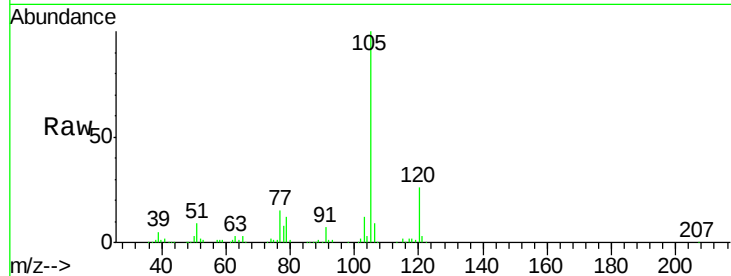
Ion Ratio Lower Upper

105 100

120 27.3 13.3 39.9

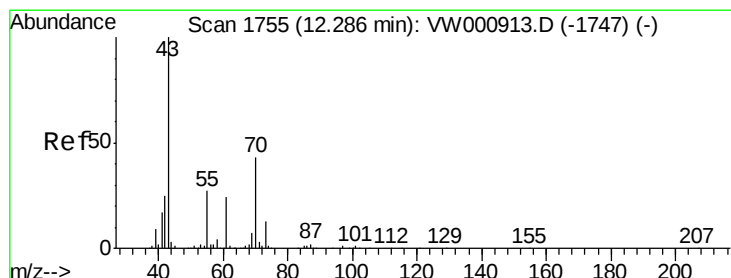
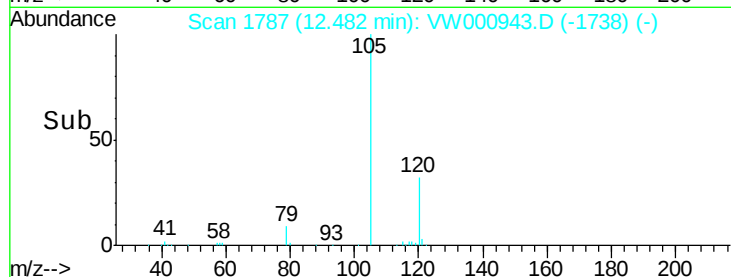
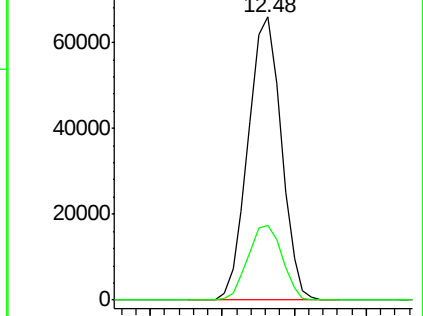
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 10.17 ug/l

RT: 12.29 min Scan# 1755

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Tgt Ion: 43 Resp: 27188

Ion Ratio Lower Upper

43 100

70 42.8 35.8 53.8

55 27.7 21.4 32.2

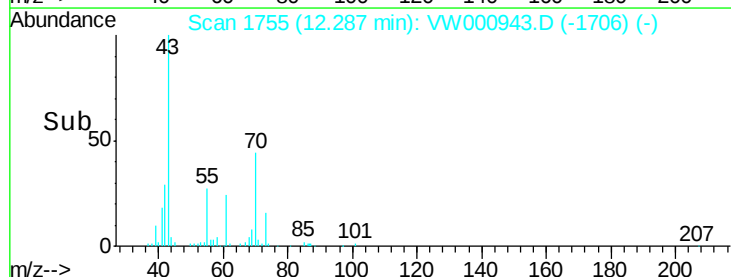
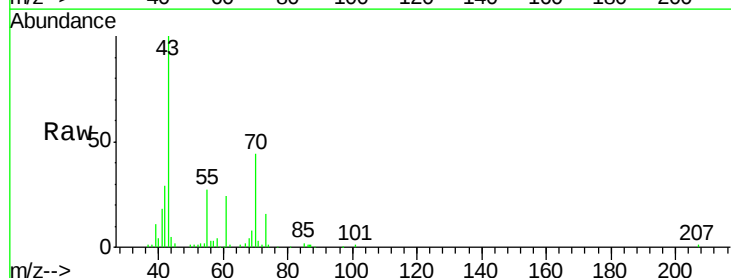
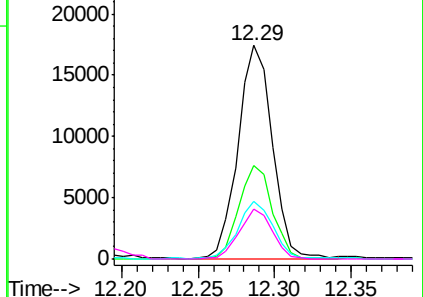
61 22.4 19.5 29.3

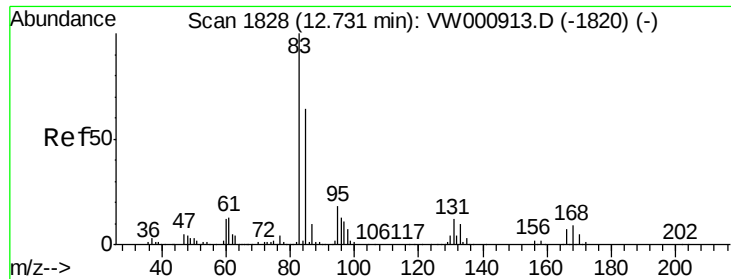
Abundance Ion 43.00 (42.70 to 43.70): VW

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





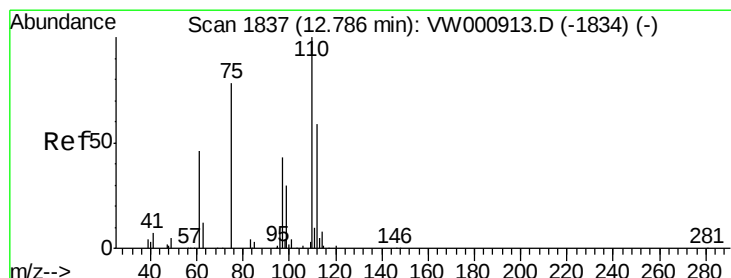
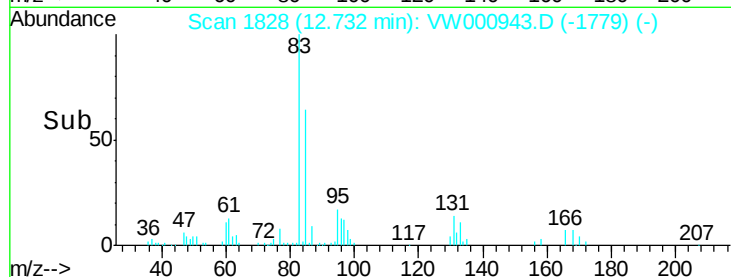
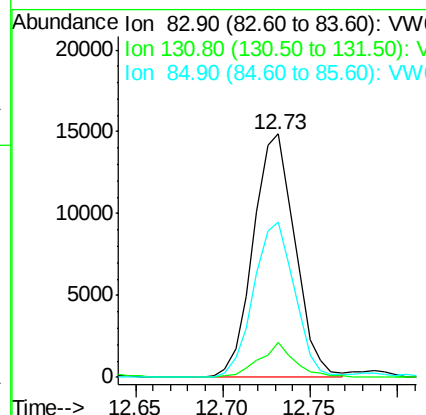
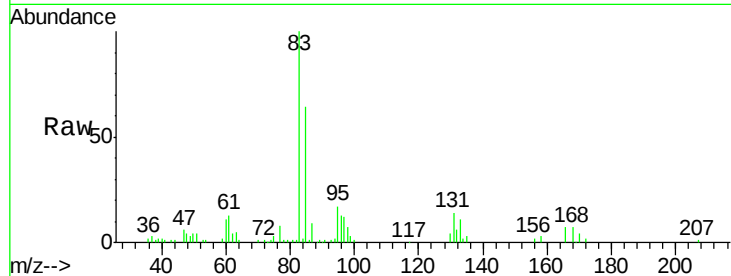
#75
 1,1,2,2-Tetrachloroethane
 Concen: 10.51 ug/l
 RT: 12.73 min Scan# 1828
 Delta R.T. 0.00 min
 Lab File: VW000943.D
 Acq: 24 Jan 2018 12:46

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2018

Tot Ion	Ratio	Lower	Upper
83	100		
131	12.2	5.9	17.7
85	62.8	32.6	97.7

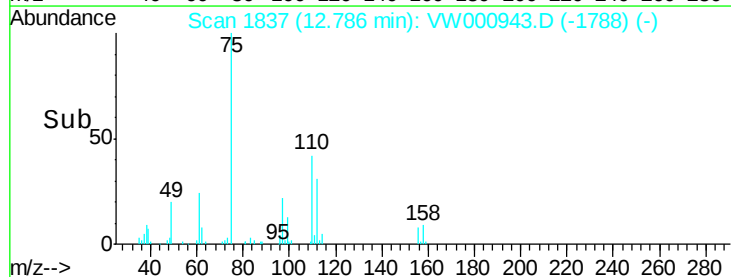
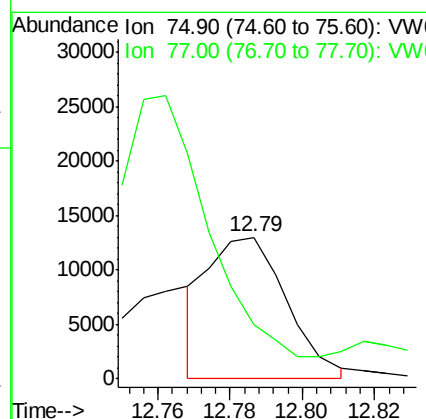
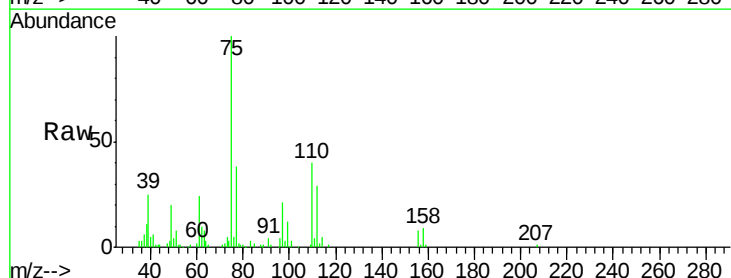
Manual Integrations
 APPROVED

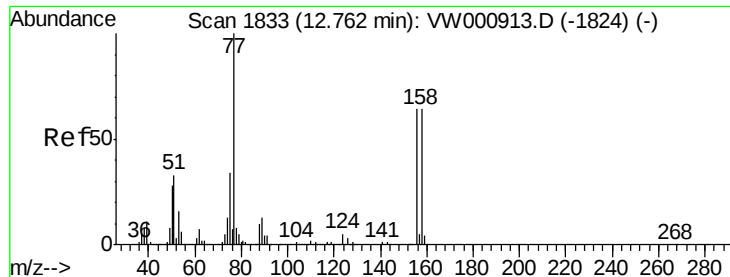
MMDadoda
 1/25/2018 1:33:55 PM



#76
 1,2,3-Trichloropropane
 Concen: 9.92 ug/l m
 RT: 12.79 min Scan# 1837
 Delta R.T. 0.00 min
 Lab File: VW000943.D
 Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 9.80 ug/l

RT: 12.76 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion:156 Resp: 27456

Ion Ratio Lower Upper

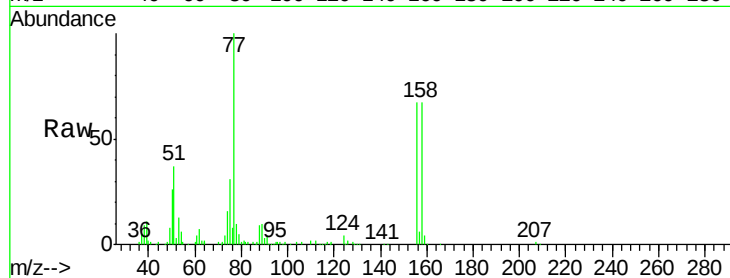
156 100

77 185.8 89.0 267.1

158 103.5 48.9 146.8

Manual Integrations
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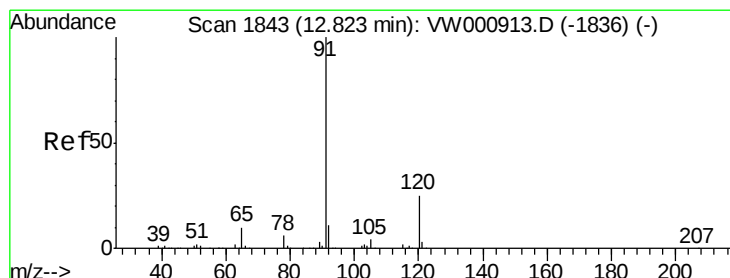
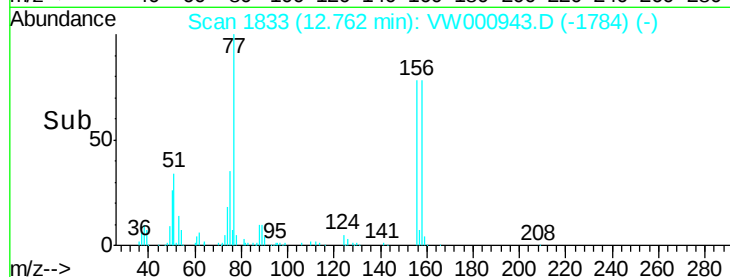
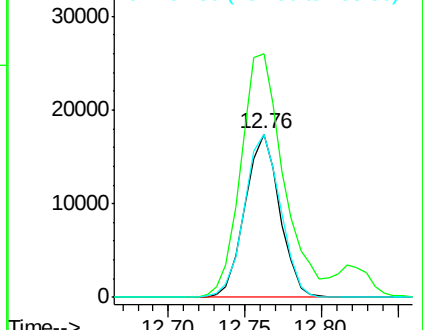
MMDadoda
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 9.98 ug/l

RT: 12.82 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VW000943.D

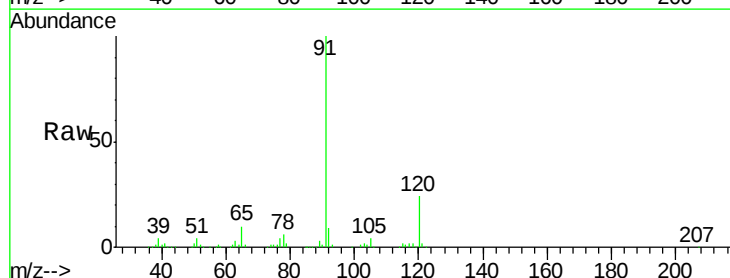
Acq: 24 Jan 2018 12:46

Tgt Ion: 91 Resp: 132535

Ion Ratio Lower Upper

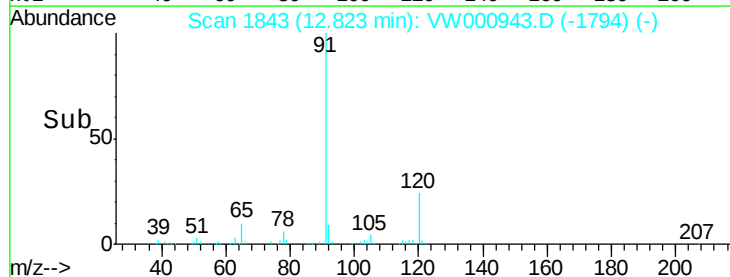
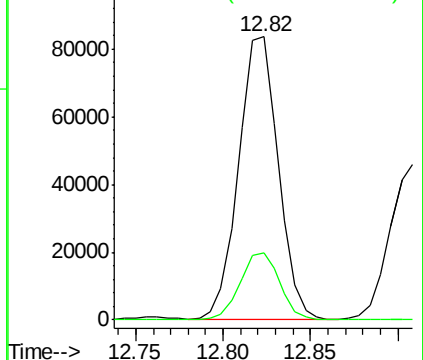
91 100

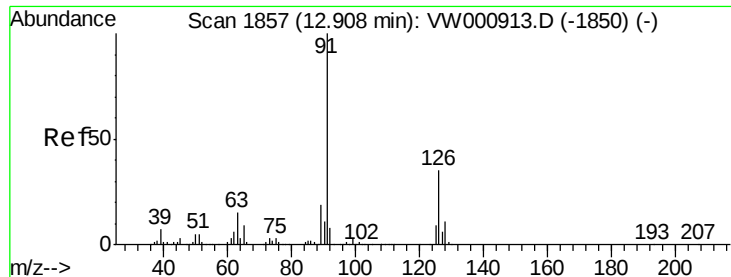
120 23.5 12.0 36.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 10.08 ug/l

RT: 12.91 min Scan# 1857

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion: 91 Resp: 75508

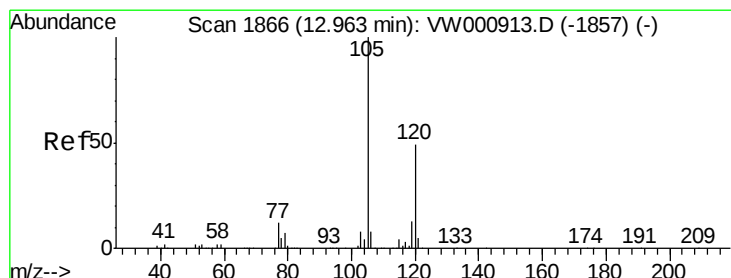
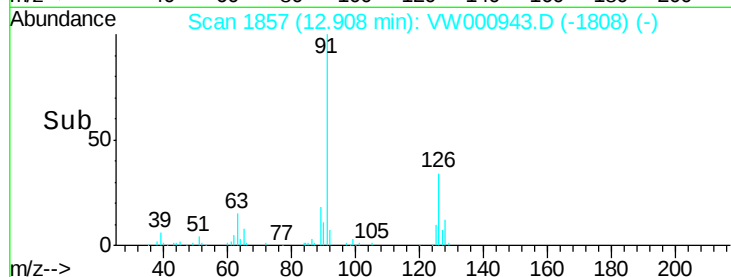
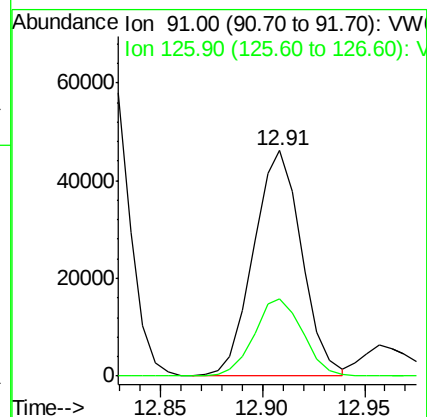
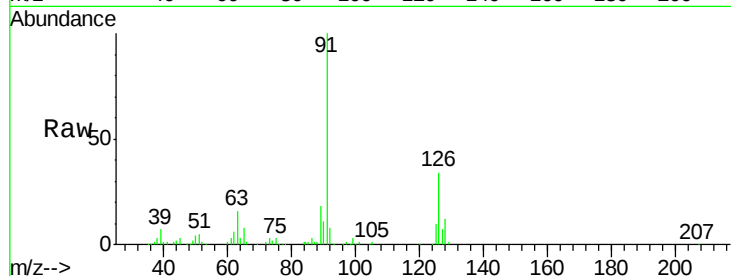
Ion Ratio Lower Upper

91 100

126 34.7 17.6 52.8

Manual Integrations
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#80

1,3,5-Trimethylbenzene

Concen: 9.86 ug/l

RT: 12.96 min Scan# 1866

Delta R.T. 0.00 min

Lab File: VW000943.D

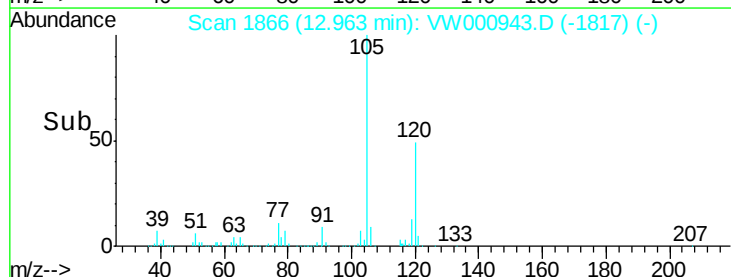
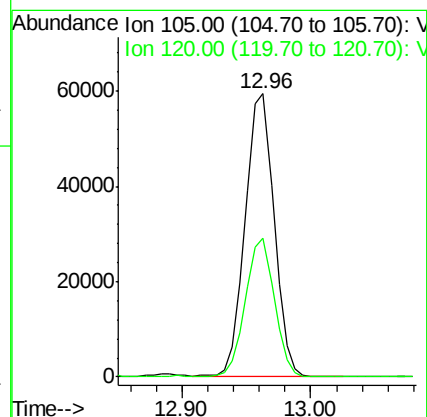
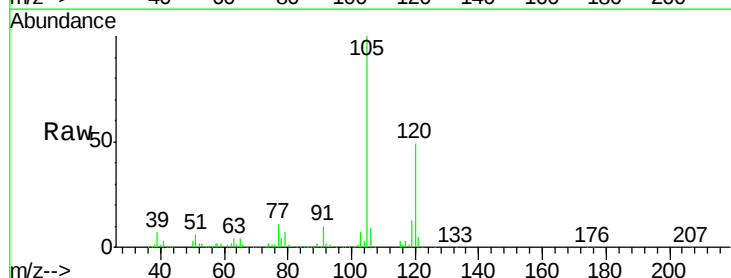
Acq: 24 Jan 2018 12:46

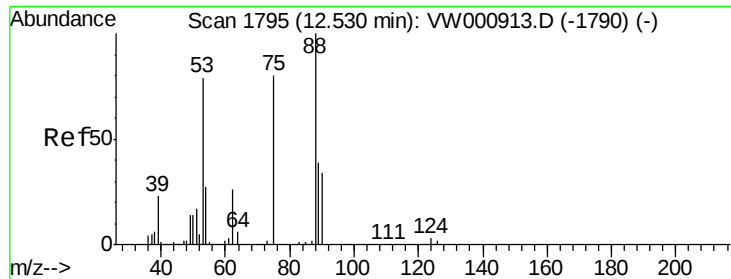
Tgt Ion: 105 Resp: 92303

Ion Ratio Lower Upper

105 100

120 48.9 24.3 72.9





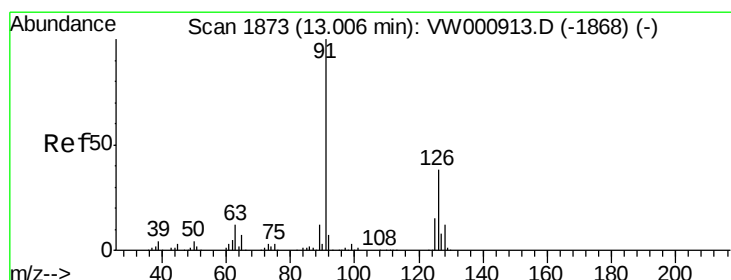
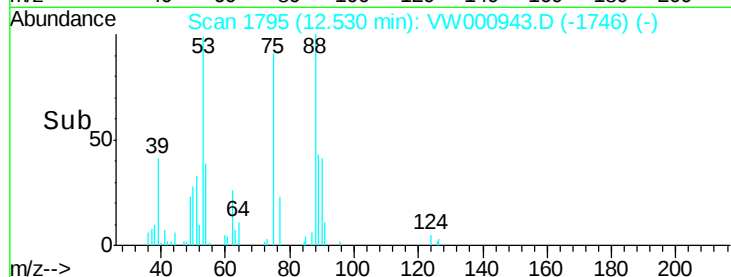
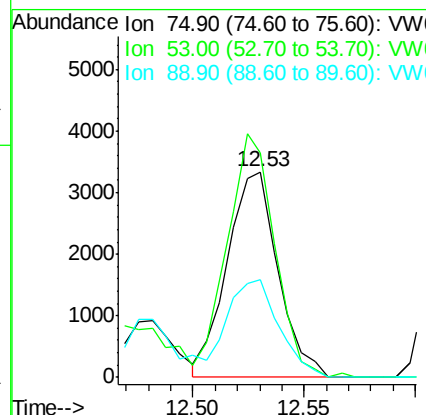
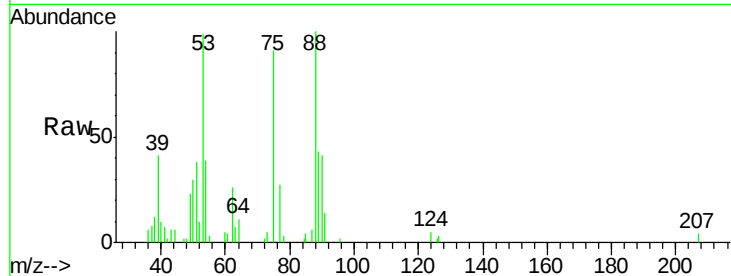
#81
trans-1,4-Dichloro-2-butene
Concen: 10.67 ug/l
RT: 12.53 min Scan# 1795
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2018

Tot Ion	Ratio	Lower	Upper
75	100		
53	111.0	77.5	116.3
89	47.6	38.2	57.4

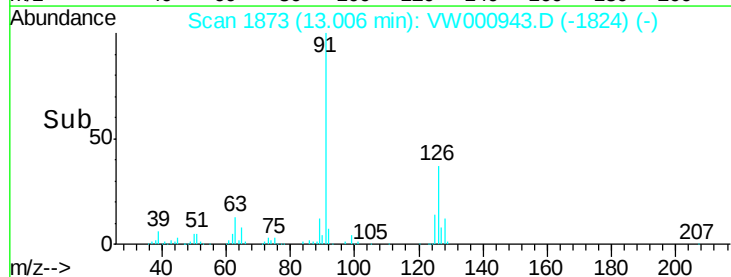
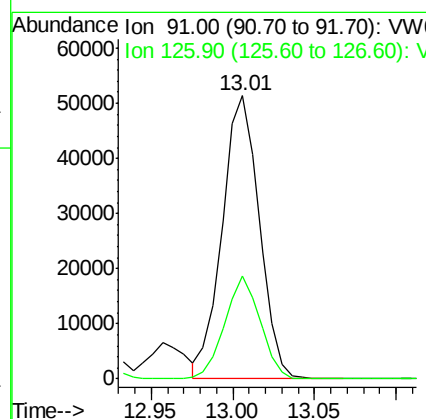
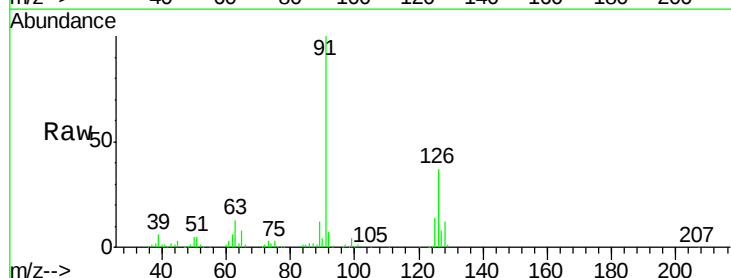
Manual Integrations
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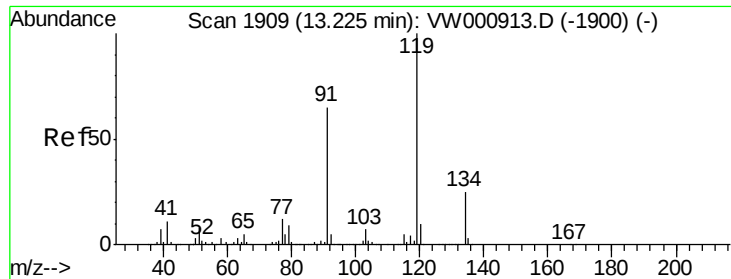
MMDadoda
1/25/2018 1:33:55 PM



#82
4-Chlorotoluene
Concen: 10.22 ug/l
RT: 13.01 min Scan# 1873
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.8	17.6	52.9





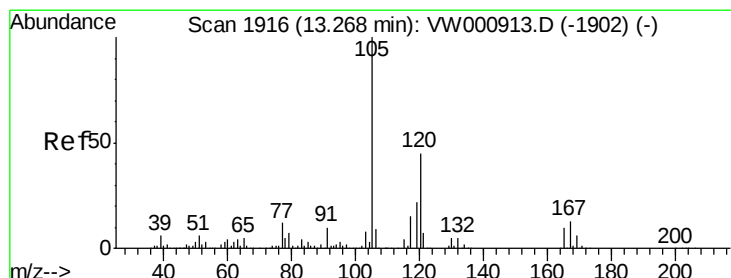
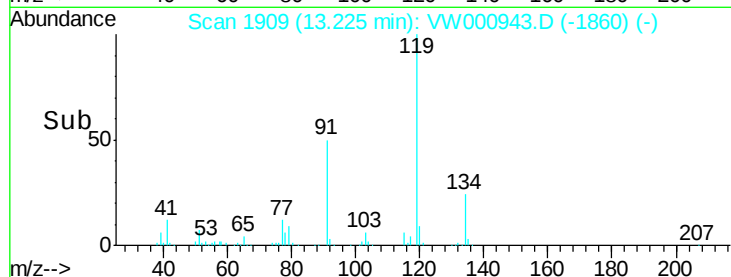
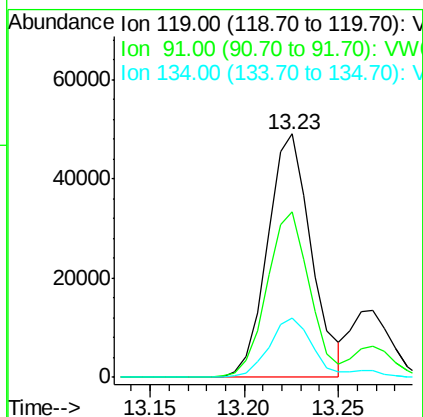
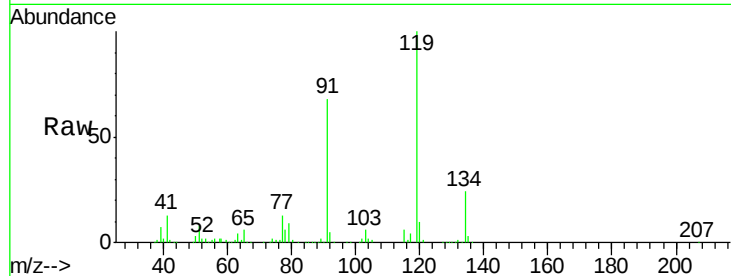
#83
tert-Butylbenzene
Concen: 9.64 ug/l
RT: 13.23 min Scan# 1909
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2018

Tot Ion	Ratio	Lower	Upper
119	100		
91	66.4	32.4	97.0
134	26.1	13.1	39.3

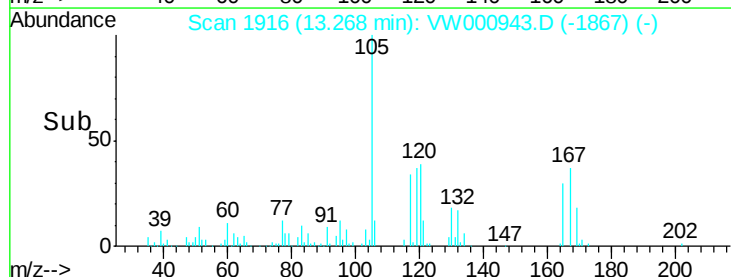
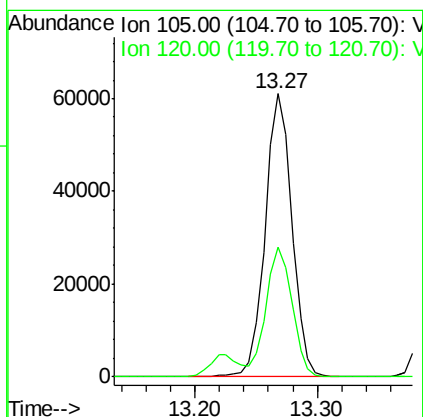
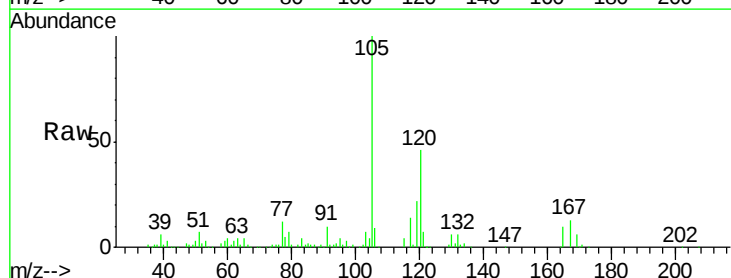
Manual Integrations
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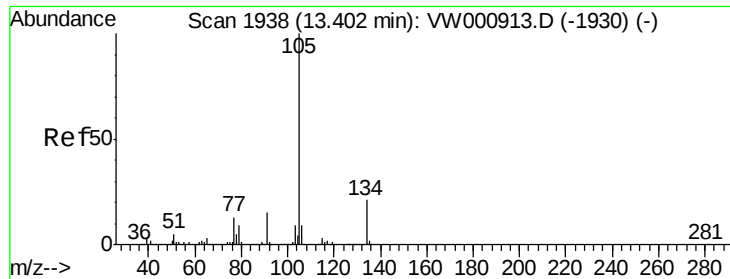
MMDadoda
1/25/2018 1:33:55 PM



#84
1,2,4-Trimethylbenzene
Concen: 9.83 ug/l
RT: 13.27 min Scan# 1916
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.5	22.4	67.0





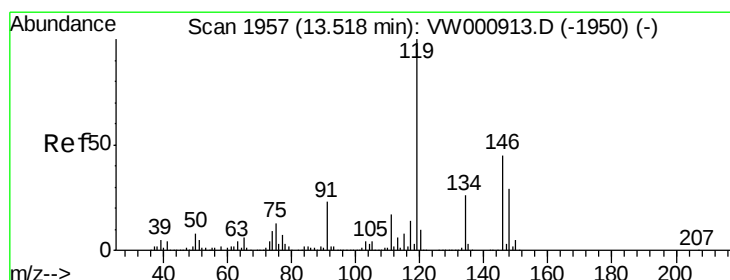
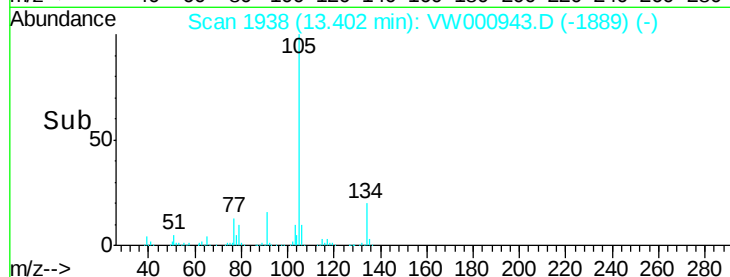
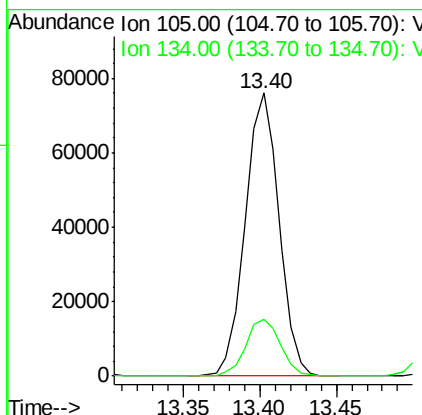
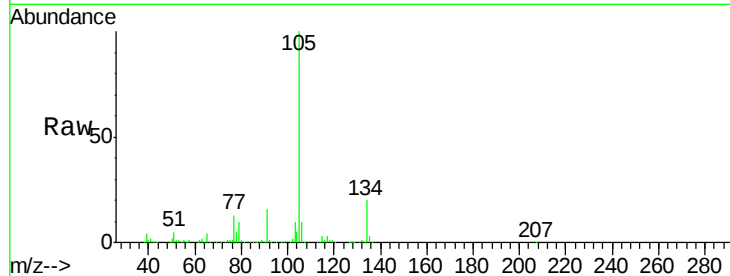
#85
 sec-Butylbenzene
 Concen: 9.86 ug/l
 RT: 13.40 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VW000943.D
 Acq: 24 Jan 2018 12:46

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2018

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.7	10.3	30.9

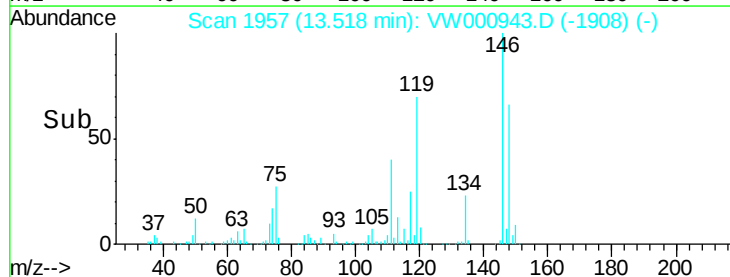
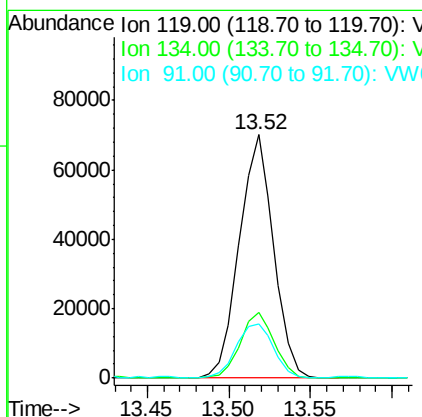
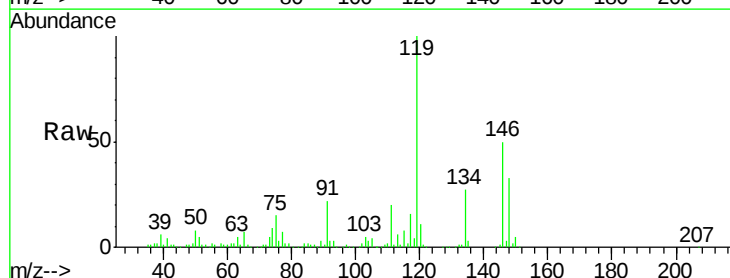
Manual Integrations
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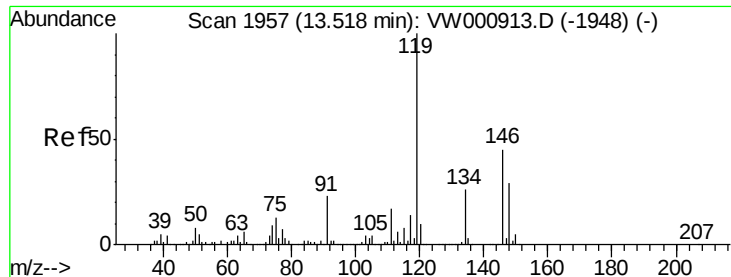
MMDadoda
 1/25/2018 1:33:55 PM



#86
 p-Isopropyltoluene
 Concen: 9.76 ug/l
 RT: 13.52 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VW000943.D
 Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.6	13.2	39.6
91	24.1	11.7	35.0





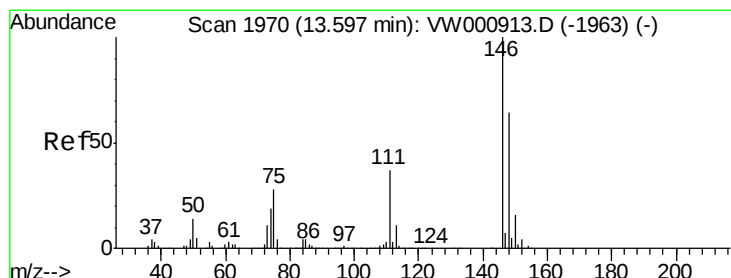
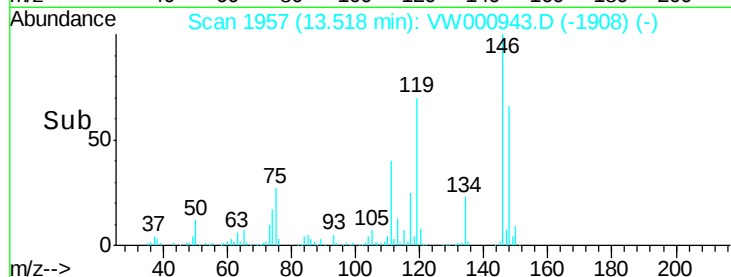
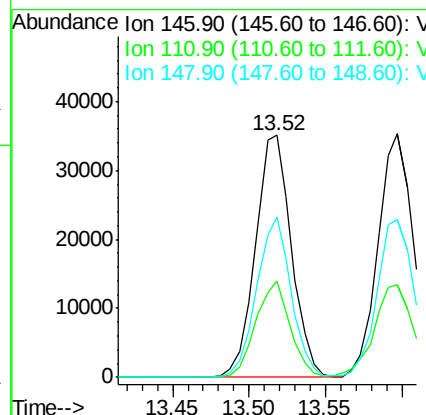
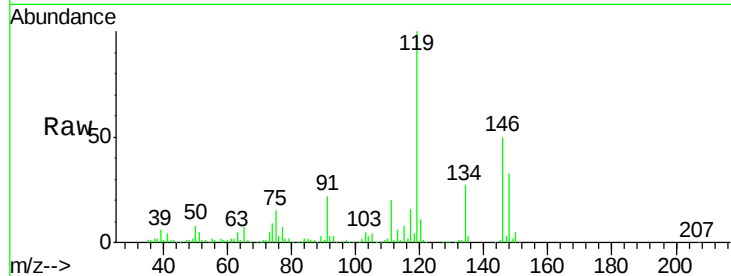
#87
 1,3-Dichlorobenzene
 Concen: 10.33 ug/l
 RT: 13.52 min Scan# 1957
 Delta R.T. 0.00 min
 Lab File: VW000943.D
 Acq: 24 Jan 2018 12:46

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2018

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.7	59.0
148	63.7	32.4	97.0

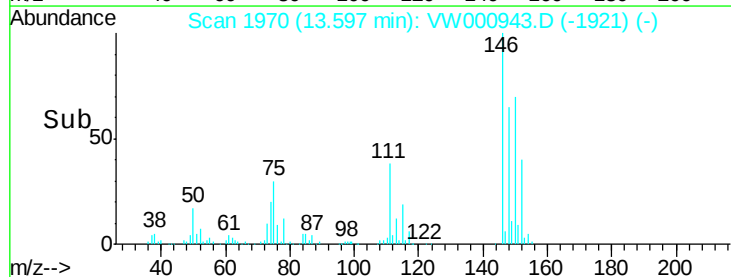
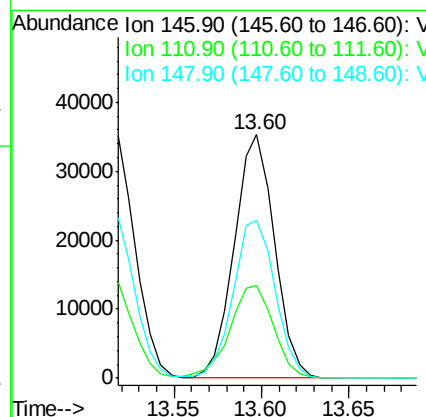
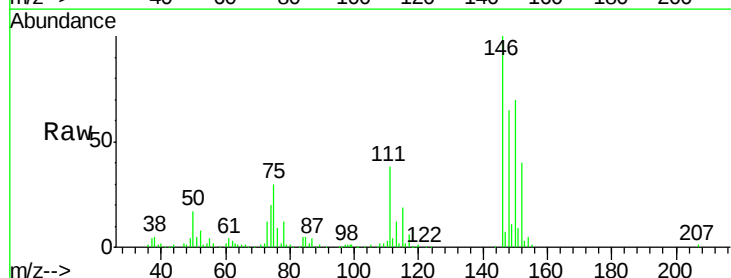
Manual Integrations
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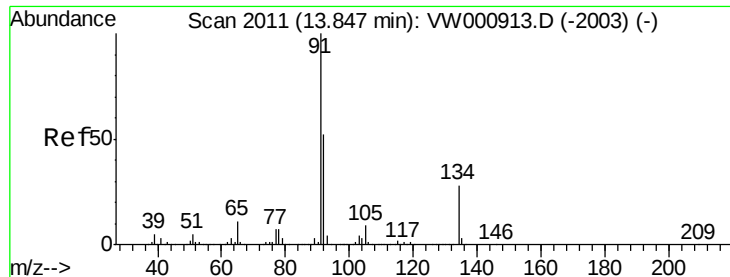
MMDadoda
 1/25/2018 1:33:55 PM



#88
 1,4-Dichlorobenzene
 Concen: 10.17 ug/l
 RT: 13.60 min Scan# 1970
 Delta R.T. 0.00 min
 Lab File: VW000943.D
 Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.6	19.0	57.0
148	67.4	32.4	97.2





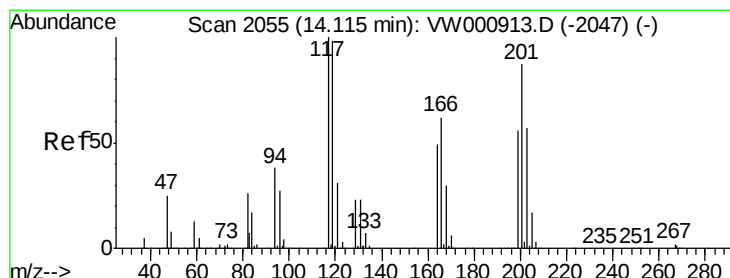
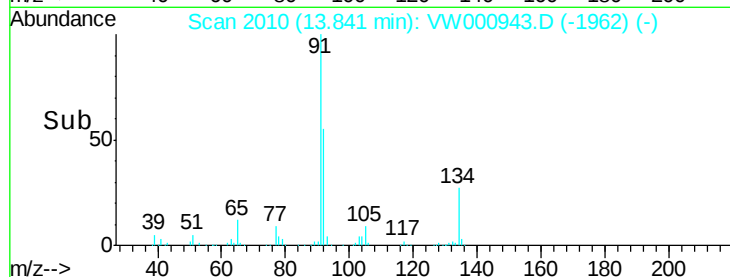
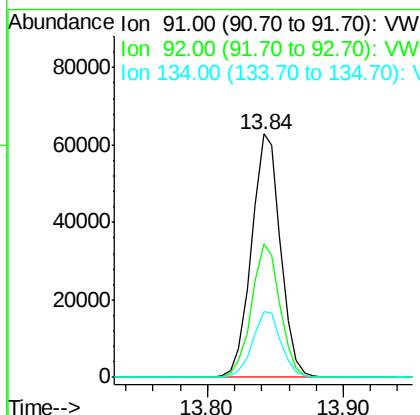
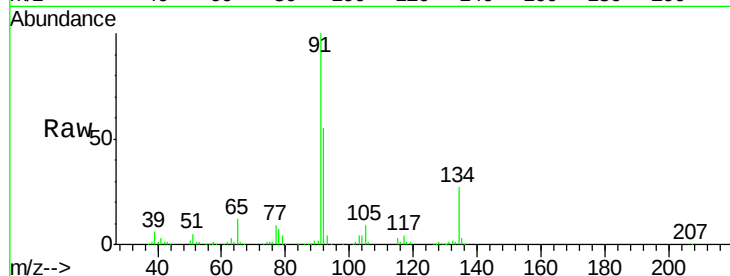
#89
n-Butylbenzene
Concen: 9.54 ug/l
RT: 13.84 min Scan# 2010
Delta R.T. -0.01 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2018

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.6	26.2	78.6
134	26.7	13.7	41.1

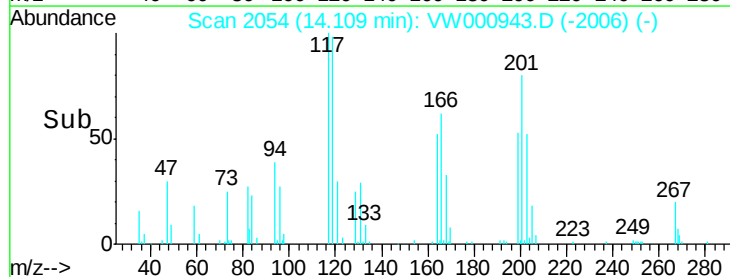
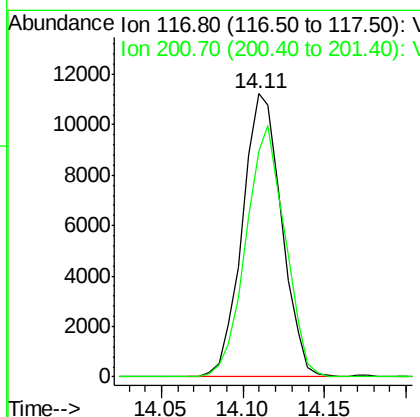
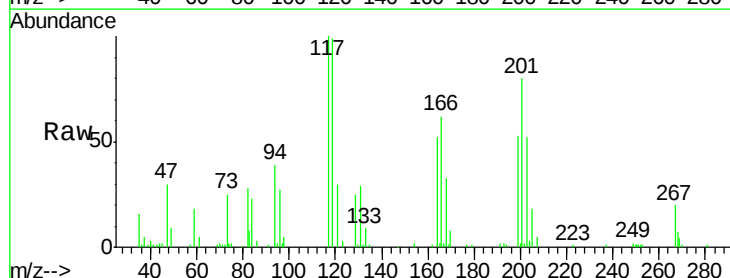
Manual Integrations
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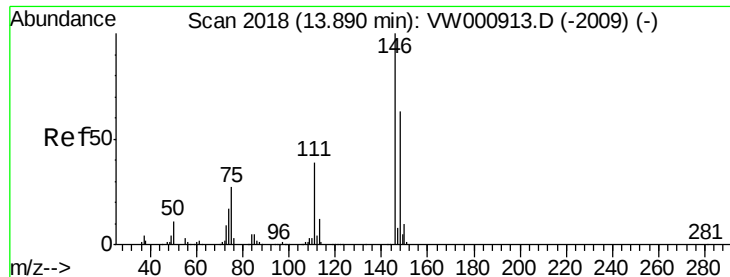
MMDadoda
1/25/2018 1:33:55 PM



#90
Hexachloroethane
Concen: 9.66 ug/l
RT: 14.11 min Scan# 2054
Delta R.T. -0.01 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
117	100		
201	87.9	42.8	128.3





#91

1,2-Dichlorobenzene

Concen: 10.55 ug/l

RT: 13.89 min Scan# 2018

Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Instrument :

MSVOA_W

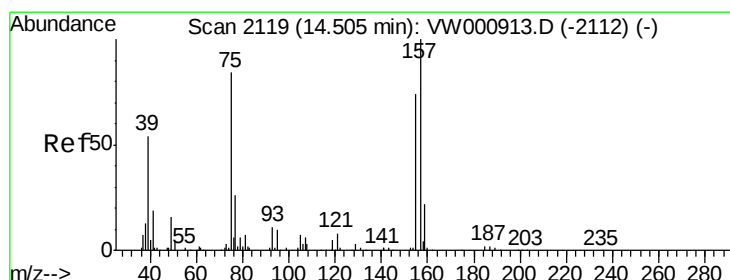
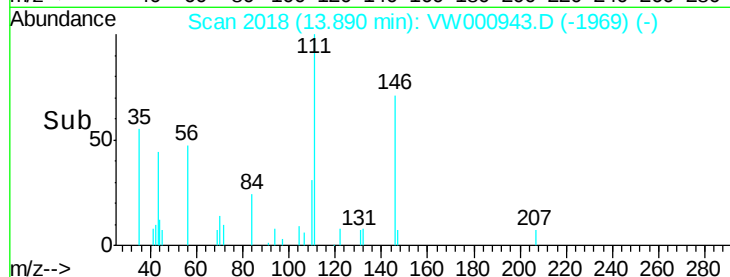
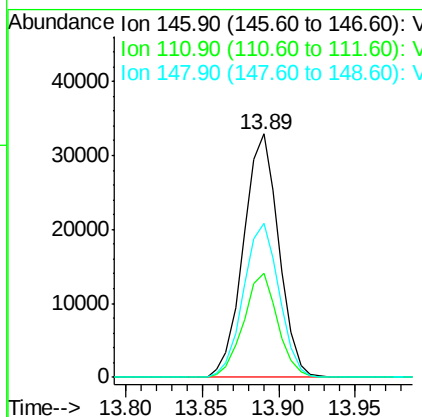
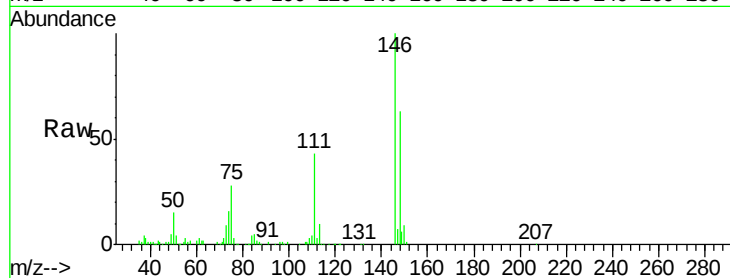
ClientSampleId :

LOQ-SOIL-02-QT1-2018

Tot Ion:	146	Resp:	52778
Ion Ratio	Lower	Upper	
146	100		
111	41.5	19.8	59.4
148	64.0	31.8	95.3

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#92

1,2-Dibromo-3-Chloropropane

Concen: 10.68 ug/l

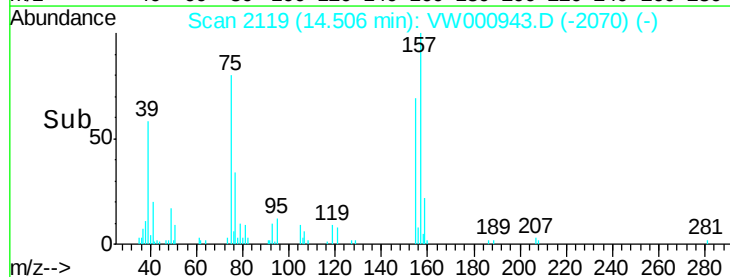
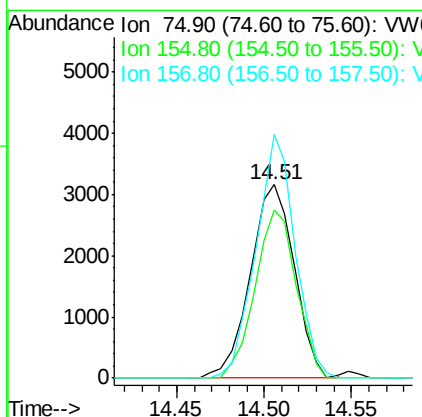
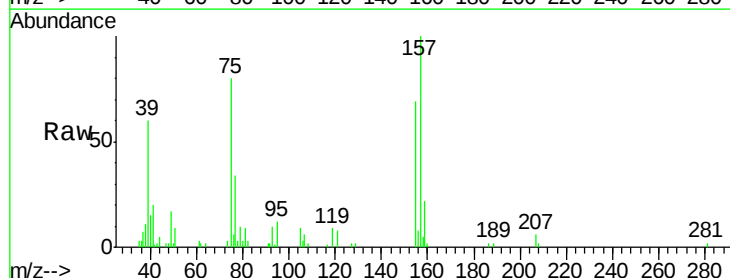
RT: 14.51 min Scan# 2119

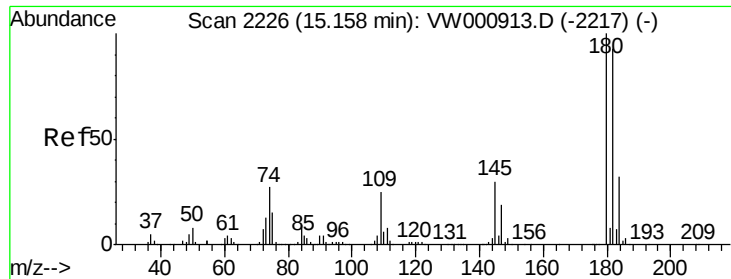
Delta R.T. 0.00 min

Lab File: VW000943.D

Acq: 24 Jan 2018 12:46

Tgt Ion:	75	Resp:	5543
Ion Ratio	Lower	Upper	
75	100		
155	80.9	45.9	137.6
157	111.9	59.8	179.3





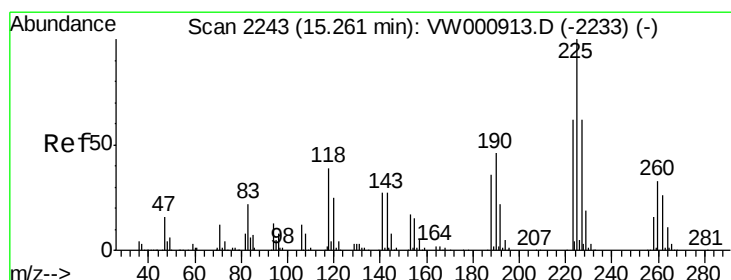
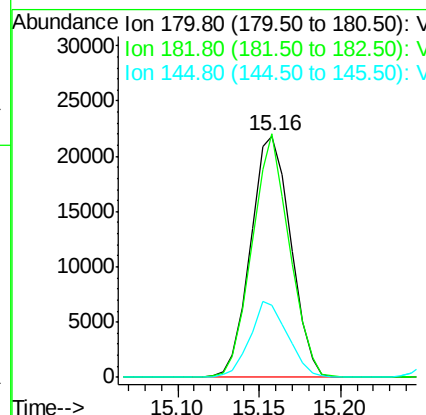
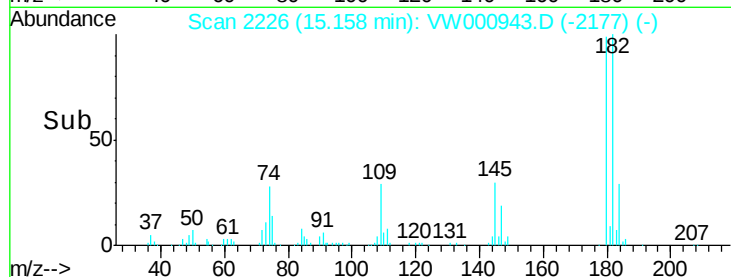
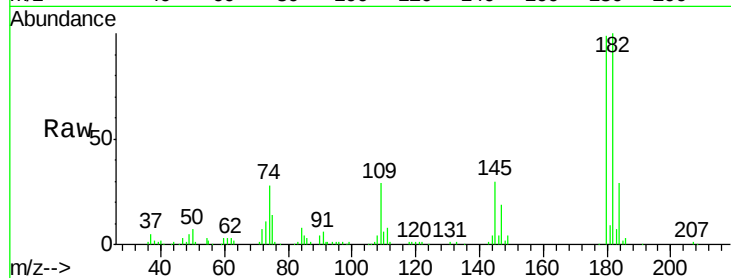
#93
 1,2,4-Trichlorobenzene
 Concen: 10.00 ug/l
 RT: 15.16 min Scan# 2226
 Delta R.T. 0.00 min
 Lab File: VW000943.D
 Acq: 24 Jan 2018 12:46

Instrument :
 MSVOA_W
 ClientSampleId :
 LOQ-SOIL-02-QT1-2018

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.6	47.5	142.6
145	29.8	14.9	44.7

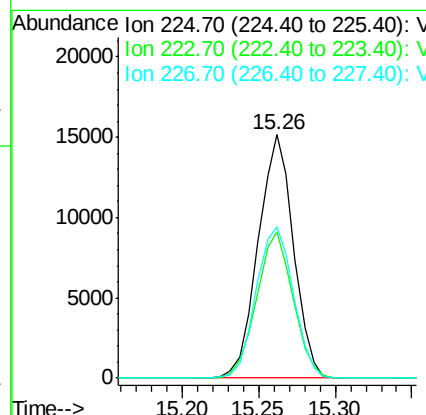
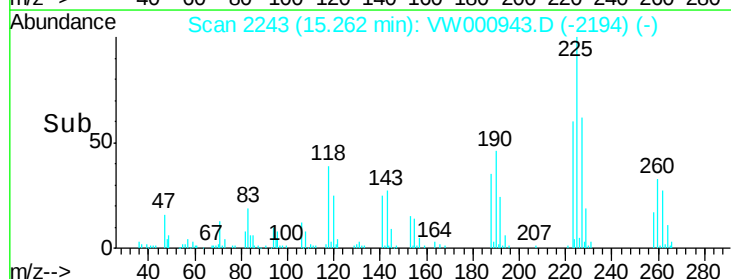
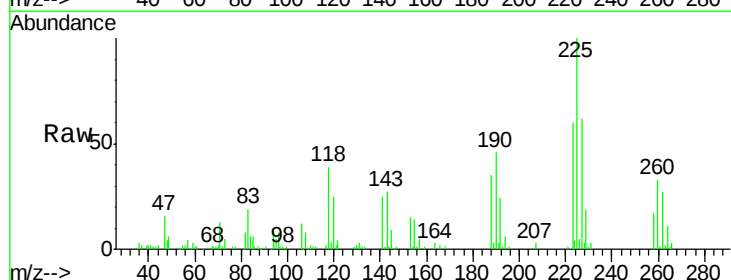
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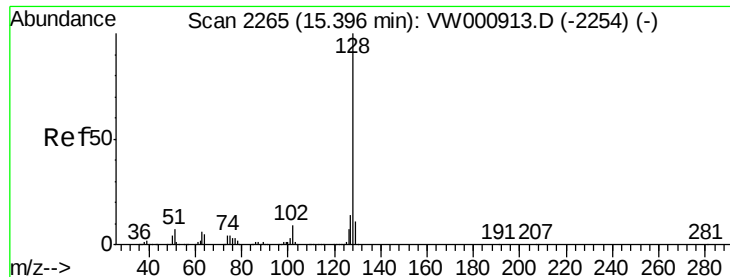
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#94
 Hexachlorobutadiene
 Concen: 10.28 ug/l
 RT: 15.26 min Scan# 2243
 Delta R.T. 0.00 min
 Lab File: VW000943.D
 Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.9	31.3	93.8
227	65.6	31.8	95.3





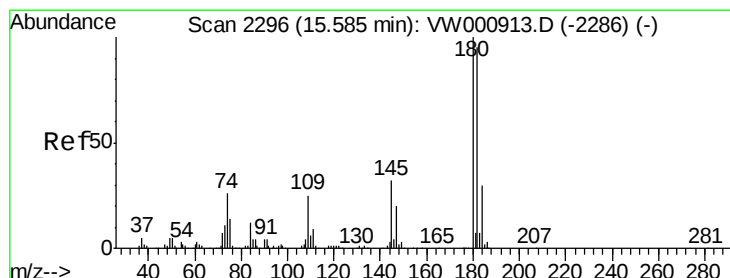
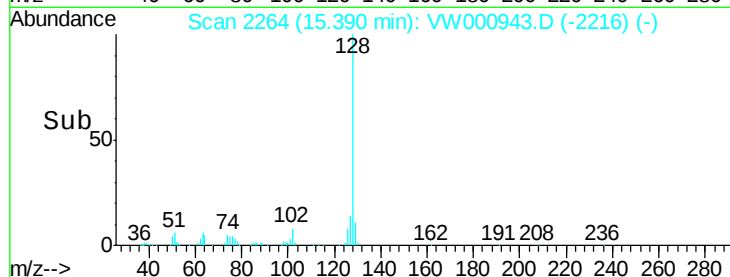
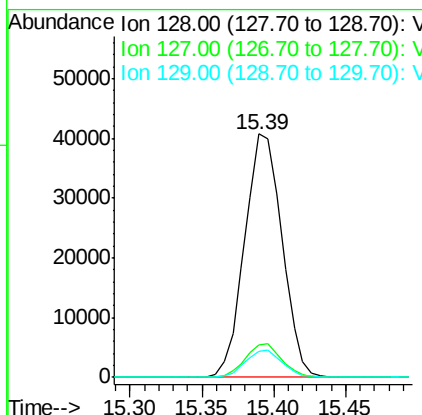
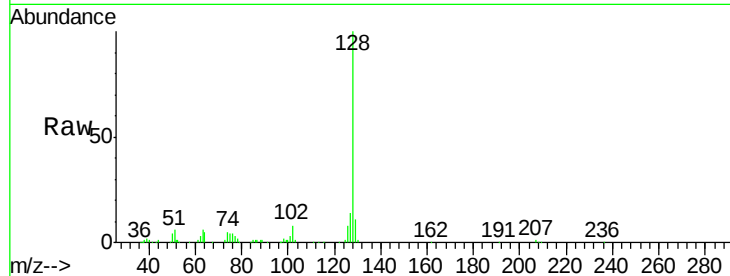
#95
Naphthalene
Concen: 9.32 ug/l
RT: 15.39 min Scan# 2264
Delta R.T. -0.01 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Instrument :
MSVOA_W
ClientSampleId :
LOQ-SOIL-02-QT1-2018

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.5	10.6	15.8
129	11.1	8.7	13.1

Manual Integrations
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#96
1,2,3-Trichlorobenzene
Concen: 9.91 ug/l
RT: 15.58 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VW000943.D
Acq: 24 Jan 2018 12:46

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.5	47.4	142.3
145	32.3	15.8	47.3

