

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY030420\
 Data File : VY001854.D
 Acq On : 04 Mar 2020 15:28
 Operator : SY/MD
 Sample : L1161-02 5PPBL00
 Misc : 5.00G/5ML/MSVOA Y/SOIL
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOQ-SOIL-02-QT1-2020

Manual Integrations
 APPROVED

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 3/5/2020 1:37:27 PM

Quant Time: Mar 05 05:55:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_Y\METHODS\82Y030420S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 05 05:44:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.80	168	176552	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	8.70	114	319844	50.00	ug/l	-0.01
63) Chlorobenzene-d5	11.49	117	286344	50.00	ug/l	-0.01
72) 1,4-Dichlorobenzene-d4	13.43	152	130705	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.15	65	103230	54.77	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	109.54%	
35) Dibromofluoromethane	7.73	113	94600	54.17	ug/l	-0.02
Spiked Amount	50.000		Recovery	=	108.34%	
50) Toluene-d8	10.18	98	401168	54.47	ug/l	-0.01
Spiked Amount	50.000		Recovery	=	108.94%	
62) 4-Bromofluorobenzene	12.49	95	137020	53.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.02%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.90	85	8905	5.464	ug/l	99
3) Chloromethane	2.12	50	11692	5.321	ug/l	100
4) Vinyl Chloride	2.26	62	11343	5.075	ug/l	97
5) Bromomethane	2.66	94	8706	5.871	ug/l	99
6) Chloroethane	2.80	64	7216	5.140	ug/l	95
7) Trichlorofluoromethane	3.13	101	15732	5.190	ug/l	94
8) Diethyl Ether	3.54	74	6034	5.051	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.90	101	9980	5.119	ug/l	96
10) Methyl Iodide	4.10	142	9566	4.243	ug/l	98
11) Tert butyl alcohol	4.97	59	4910	21.340	ug/l	99
12) 1,1-Dichloroethene	3.88	96	10111	5.151	ug/l	99
13) Acrolein	3.74	56	7210	27.222	ug/l	98
14) Allyl chloride	4.49	41	17201	4.943	ug/l	96
15) Acrylonitrile	5.18	53	15807	24.762	ug/l	98
16) Acetone	3.96	43	12682	23.101	ug/l	93
17) Carbon Disulfide	4.20	76	31831	4.824	ug/l	96
18) Methyl Acetate	4.49	43	7168	5.082	ug/l	100
19) Methyl tert-butyl Ether	5.22	73	26895	5.056	ug/l	98
20) Methylene Chloride	4.74	84	15318	6.511	ug/l	94
21) trans-1,2-Dichloroethene	5.23	96	11330	5.085	ug/l	96
22) Diisopropyl ether	6.13	45	35797	5.018	ug/l	92
23) Vinyl Acetate	6.07	43	113281	24.224	ug/l	99
24) 1,1-Dichloroethane	6.03	63	18786	4.863	ug/l	97
25) 2-Butanone	7.00	43	19765	23.675	ug/l	98
26) 2,2-Dichloropropane	6.99	77	15355	4.843	ug/l	99
27) cis-1,2-Dichloroethene	7.00	96	12140	5.009	ug/l	98
28) Bromochloromethane	7.35	49	8426	4.839	ug/l	99
29) Tetrahydrofuran	7.36	42	13214	23.836	ug/l	96
30) Chloroform	7.52	83	17690	4.874	ug/l	92
31) Cyclohexane	7.80	56	23694	5.721	ug/l	# 76
32) 1,1,1-Trichloroethane	7.71	97	15334	5.013	ug/l	99
36) 1,1-Dichloropropene	7.93	75	14974	4.865	ug/l	99
37) Ethyl Acetate	7.08	43	8600	4.808	ug/l	98
38) Carbon Tetrachloride	7.91	117	12747	4.848	ug/l	91

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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.19	83	20104	4.925	ug/l	98
40) Benzene	8.17	78	45911	5.033	ug/l	97
41) Methacrylonitrile	7.33	41	6395m	7.944	ug/l	
42) 1,2-Dichloroethane	8.25	62	12094	5.145	ug/l	96
43) Isopropyl Acetate	8.28	43	16725	4.938	ug/l #	87
44) Trichloroethene	8.95	130	11383	5.123	ug/l	96
45) 1,2-Dichloropropane	9.22	63	11360	4.954	ug/l	96
46) Dibromomethane	9.32	93	5849	4.949	ug/l	97
47) Bromodichloromethane	9.50	83	13400	4.874	ug/l	97
48) Methyl methacrylate	9.30	41	7680	5.110	ug/l	97
49) 1,4-Dioxane	9.31	88	1500	92.629	ug/l #	92
51) 4-Methyl-2-Pentanone	10.08	43	42424	24.319	ug/l	98
52) Toluene	10.25	92	28002	5.053	ug/l	98
53) t-1,3-Dichloropropene	10.47	75	13667	4.563	ug/l	96
54) cis-1,3-Dichloropropene	9.93	75	16823	4.718	ug/l	100
55) 1,1,2-Trichloroethane	10.65	97	8559	4.949	ug/l	98
56) Ethyl methacrylate	10.52	69	12248	4.831	ug/l	92
57) 1,3-Dichloropropane	10.80	76	15293	4.960	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.78	63	21355	21.244	ug/l	99
59) 2-Hexanone	10.84	43	29142	23.405	ug/l	100
60) Dibromochloromethane	10.99	129	8451	4.637	ug/l	100
61) 1,2-Dibromoethane	11.09	107	7701	4.701	ug/l	98
64) Tetrachloroethene	10.72	164	9185	5.115	ug/l	85
65) Chlorobenzene	11.52	112	28387	4.975	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.59	131	8948	4.782	ug/l	98
67) Ethyl Benzene	11.60	91	52519	4.936	ug/l	100
68) m/p-Xylenes	11.71	106	38209	9.713	ug/l	98
69) o-Xylene	12.03	106	18049	4.868	ug/l	98
70) Styrene	12.05	104	30106	4.741	ug/l	99
71) Bromoform	12.21	173	4323	4.260	ug/l #	92
73) Isopropylbenzene	12.33	105	48565	4.867	ug/l	99
74) N-amyl acetate	12.14	43	15180	4.950	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.58	83	10331	4.801	ug/l	98
76) 1,2,3-Trichloropropane	12.63	75	6384m	4.116	ug/l	
77) Bromobenzene	12.61	156	10336	4.889	ug/l	98
78) n-propylbenzene	12.67	91	61358	4.985	ug/l	99
79) 2-Chlorotoluene	12.76	91	33378	4.908	ug/l	99
80) 1,3,5-Trimethylbenzene	12.81	105	40754	4.961	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.38	75	3461	4.508	ug/l	97
82) 4-Chlorotoluene	12.86	91	35665	5.037	ug/l	99
83) tert-Butylbenzene	13.08	119	32824	4.811	ug/l	98
84) 1,2,4-Trimethylbenzene	13.12	105	41293	5.066	ug/l	100
85) sec-Butylbenzene	13.25	105	49367	4.909	ug/l	100
86) p-Isopropyltoluene	13.37	119	44035	5.076	ug/l	99
87) 1,3-Dichlorobenzene	13.37	146	21080	5.089	ug/l	99
88) 1,4-Dichlorobenzene	13.45	146	21551	5.128	ug/l	93
89) n-Butylbenzene	13.70	91	46026	5.114	ug/l	97
90) Hexachloroethane	13.96	117	7455	4.555	ug/l	96
91) 1,2-Dichlorobenzene	13.74	146	18588	4.939	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	14.36	75	1574	4.688	ug/l	90

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ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

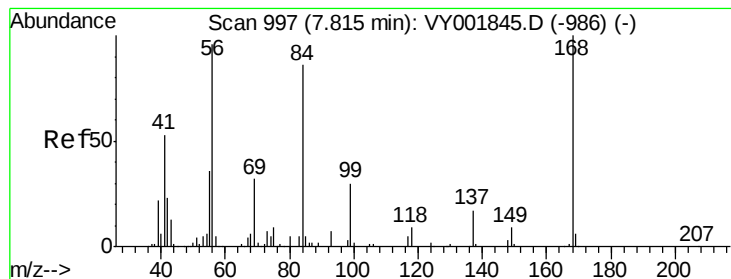
Manual Integrations
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Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.01	180	12377	5.071	ug/l	98
94) Hexachlorobutadiene	15.11	225	6255	5.257	ug/l	97
95) Naphthalene	15.24	128	28031	4.842	ug/l	98
96) 1,2,3-Trichlorobenzene	15.43	180	11314	5.262	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.01 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion:168 Resp: 176552

Ion Ratio Lower Upper

168 100

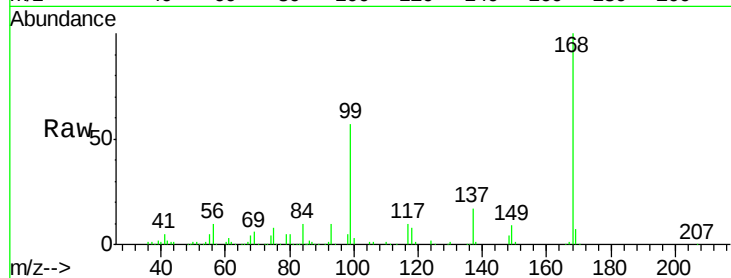
99 56.8 46.7 70.1

Manual Integrations

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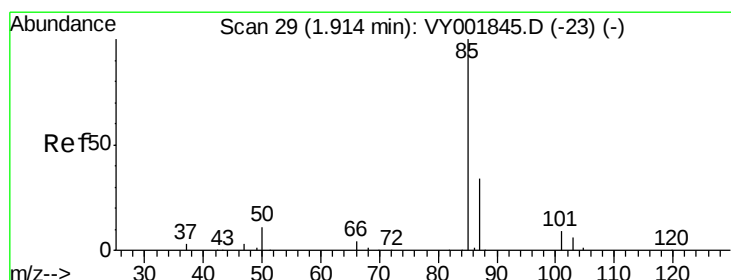
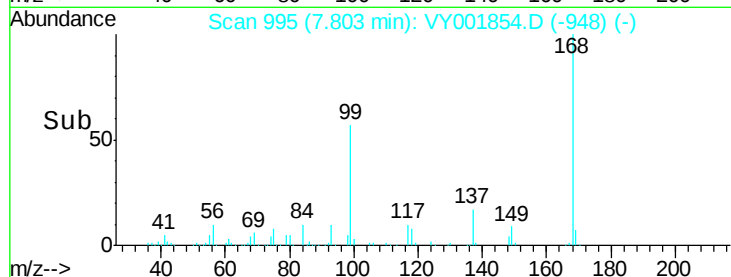
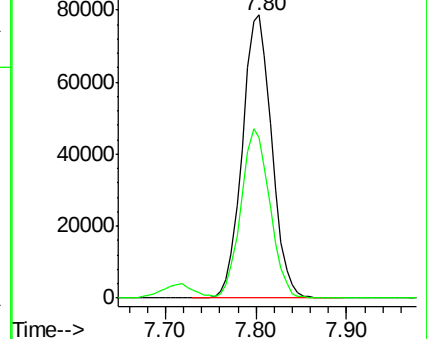
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Abundance Ion 167.90 (167.60 to 168.60): VY001845.D (-986) (-)

Ion 98.90 (98.60 to 99.60): VY001845.D (-986) (-)



#2

Dichlorodifluoromethane

Concen: 5.464 ug/l

RT: 1.90 min Scan# 27

Delta R.T. -0.01 min

Lab File: VY001854.D

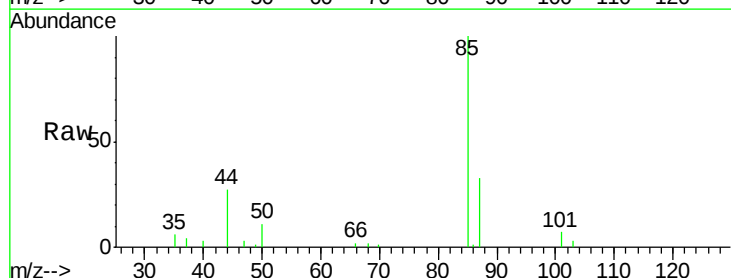
Acq: 04 Mar 2020 15:28

Tgt Ion: 85 Resp: 8905

Ion Ratio Lower Upper

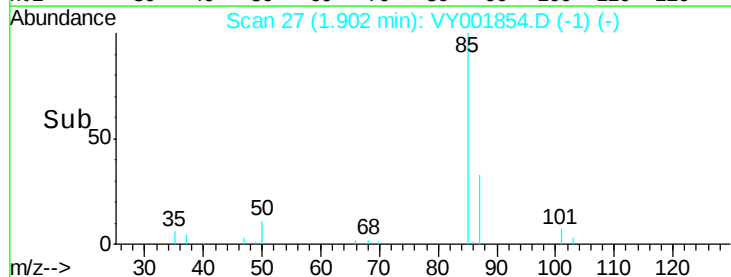
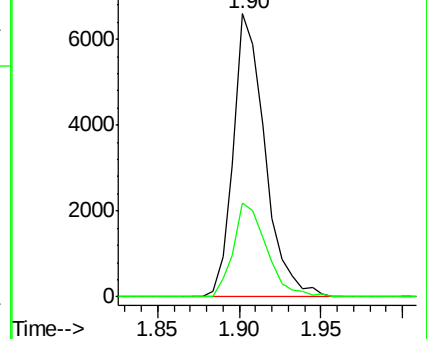
85 100

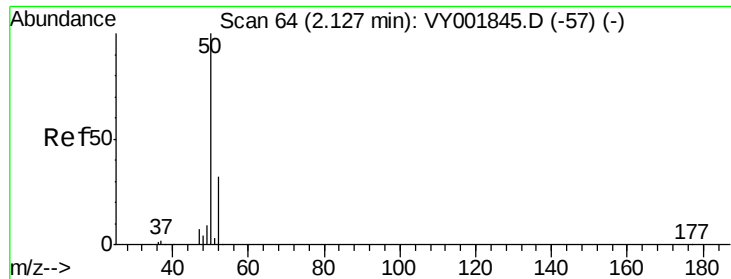
87 33.1 16.8 50.4



Abundance Ion 84.90 (84.60 to 85.60): VY001845.D (-23) (-)

Ion 86.90 (86.60 to 87.60): VY001845.D (-23) (-)





#3

Chloromethane

Concen: 5.321 ug/l

RT: 2.12 min Scan# 62

Delta R.T. -0.01 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion: 50 Resp: 11692

Ion Ratio Lower Upper

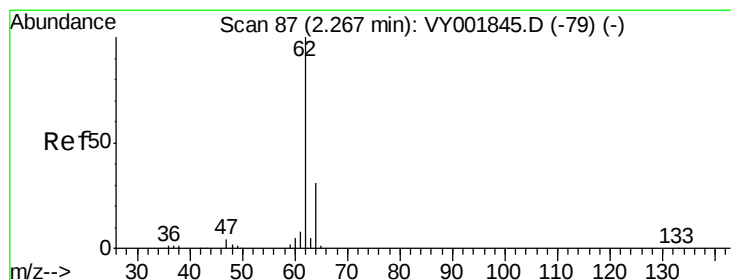
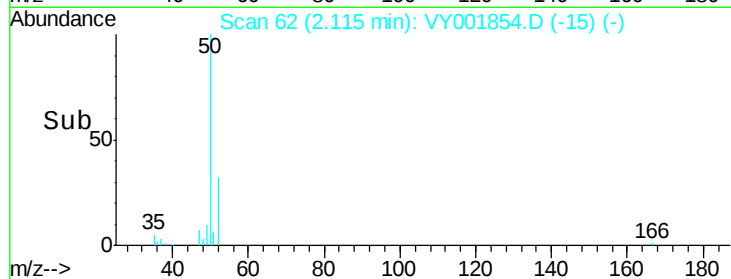
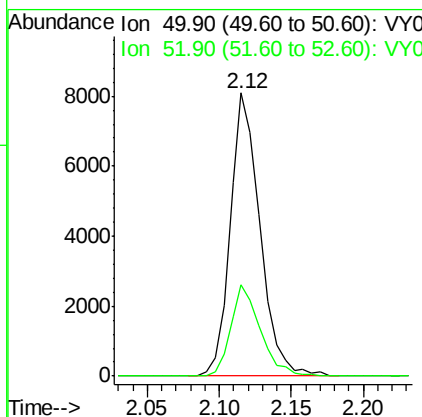
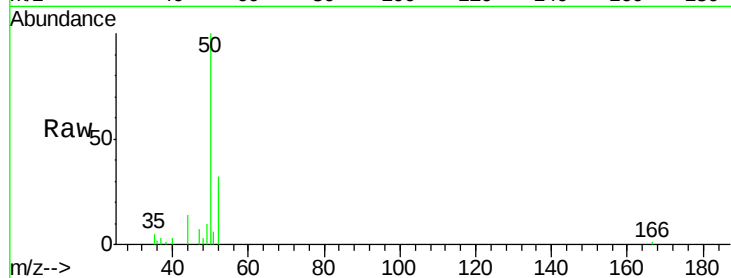
50 100

52 32.2 25.8 38.6

Manual Integrations
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#4

Vinyl Chloride

Concen: 5.075 ug/l

RT: 2.26 min Scan# 85

Delta R.T. -0.01 min

Lab File: VY001854.D

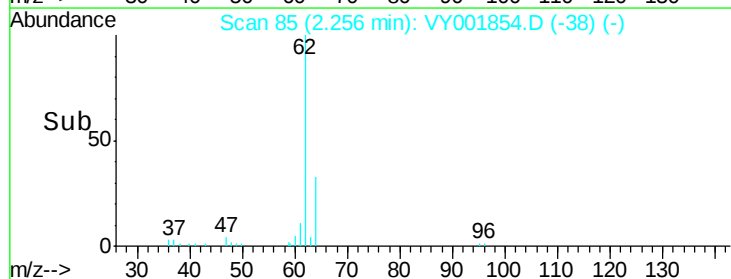
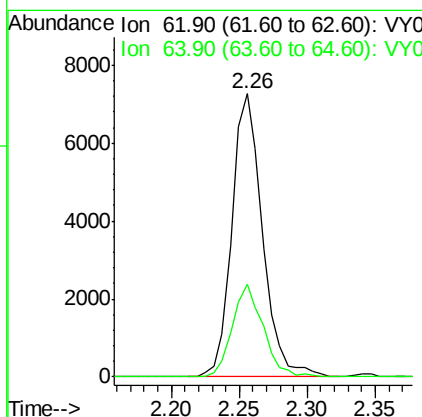
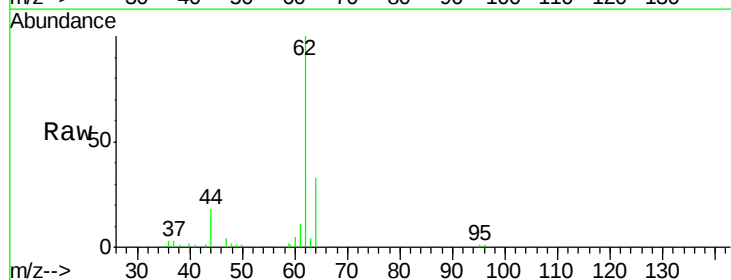
Acq: 04 Mar 2020 15:28

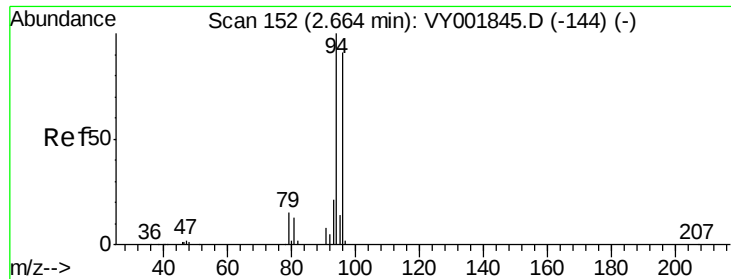
Tgt Ion: 62 Resp: 11343

Ion Ratio Lower Upper

62 100

64 32.8 25.1 37.7





#5

Bromomethane

Concen: 5.871 ug/l

RT: 2.66 min Scan# 151

Delta R.T. -0.01 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion: 94 Resp: 8706

Ion Ratio Lower Upper

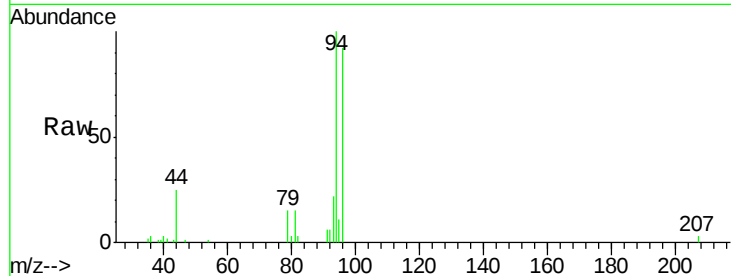
94 100

96 92.3 73.2 109.8

Manual Integrations
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Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0

2.66

4000

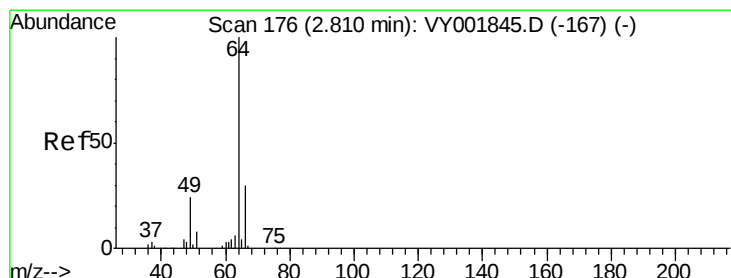
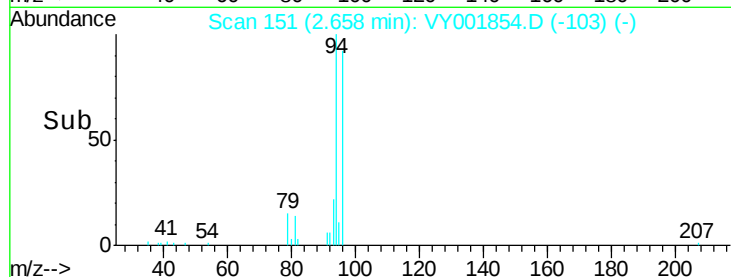
3000

2000

1000

0

Time--> 2.55 2.60 2.65 2.70 2.75



#6

Chloroethane

Concen: 5.140 ug/l

RT: 2.80 min Scan# 174

Delta R.T. -0.01 min

Lab File: VY001854.D

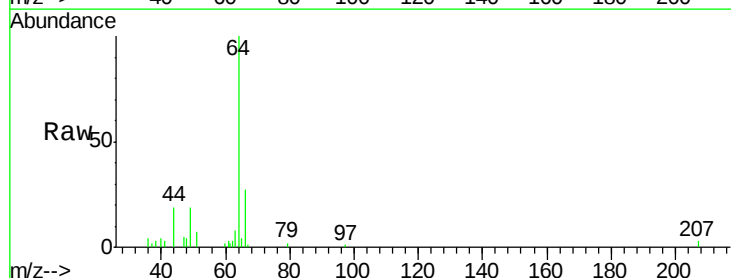
Acq: 04 Mar 2020 15:28

Tgt Ion: 64 Resp: 7216

Ion Ratio Lower Upper

64 100

66 27.2 23.8 35.8



Abundance Ion 63.90 (63.60 to 64.60): VY0

Ion 65.90 (65.60 to 66.60): VY0

2.80

4000

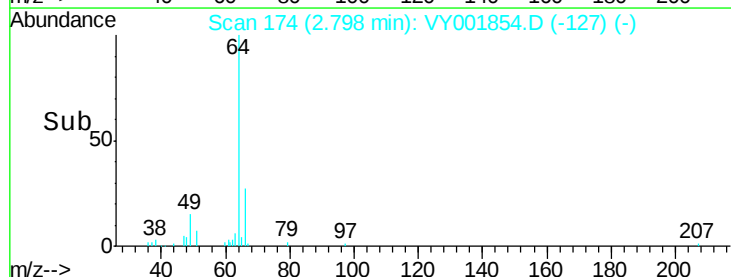
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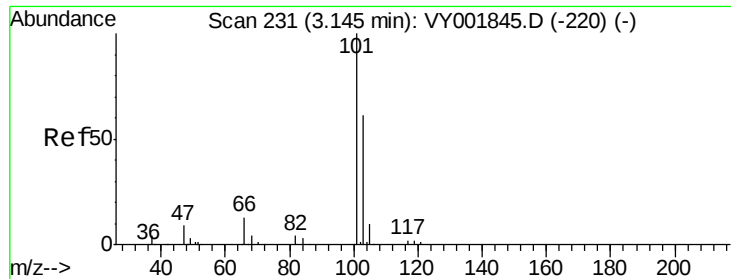
2000

1000

0

Time--> 2.70 2.75 2.80 2.85 2.90





#7

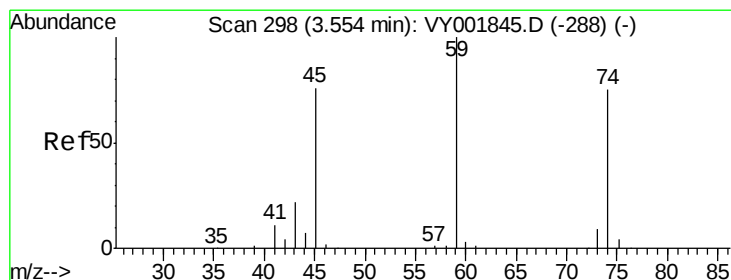
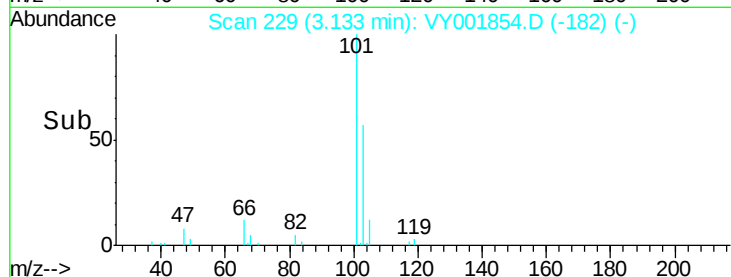
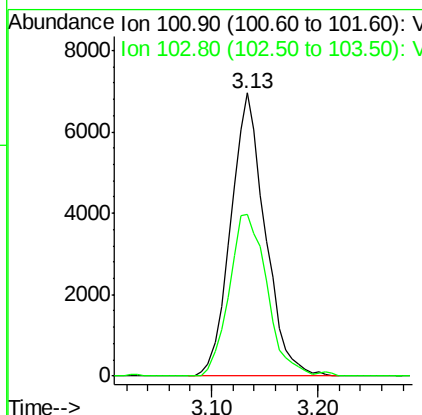
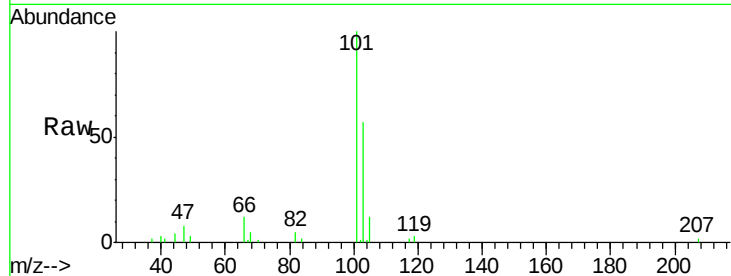
Trichlorofluoromethane
Concen: 5.190 ug/l
RT: 3.13 min Scan# 229
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

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LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
101	100		
103	57.1	49.1	73.7

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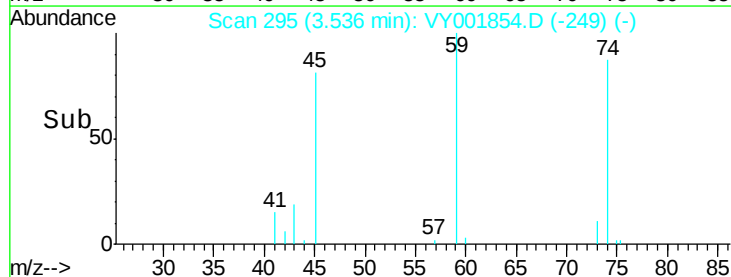
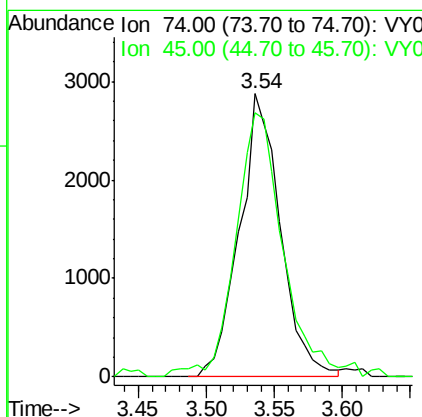
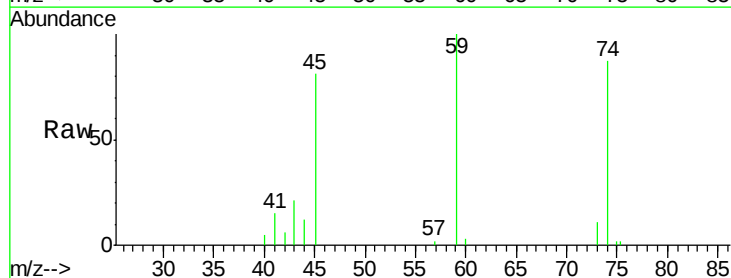
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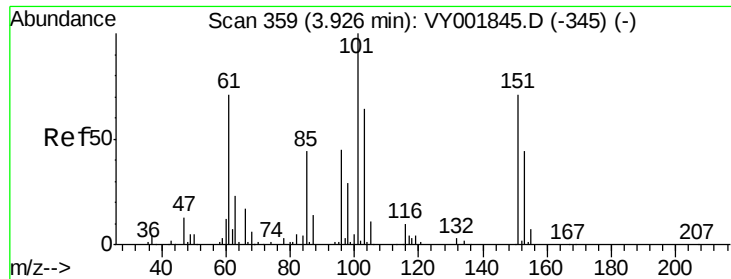


#8

Diethyl Ether
Concen: 5.051 ug/l
RT: 3.54 min Scan# 295
Delta R.T. -0.02 min
Lab File: VY001854.D
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Tgt Ion	Ratio	Lower	Upper
74	100		
45	109.5	50.5	151.5





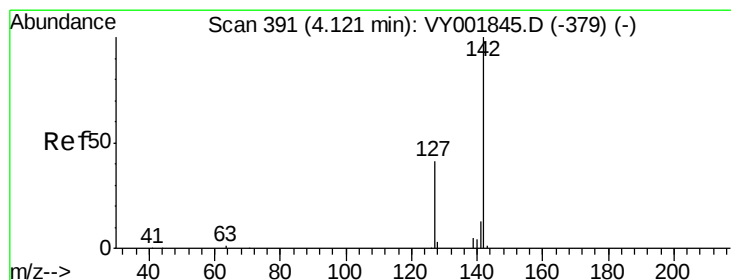
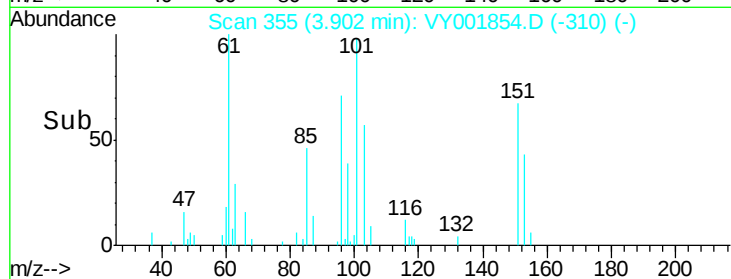
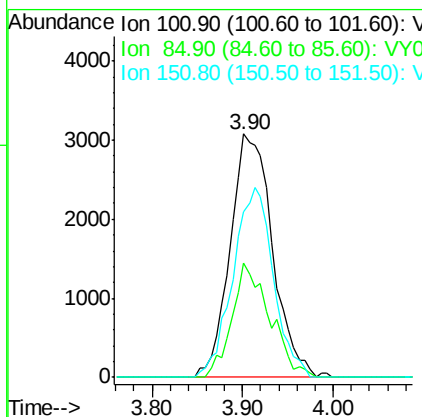
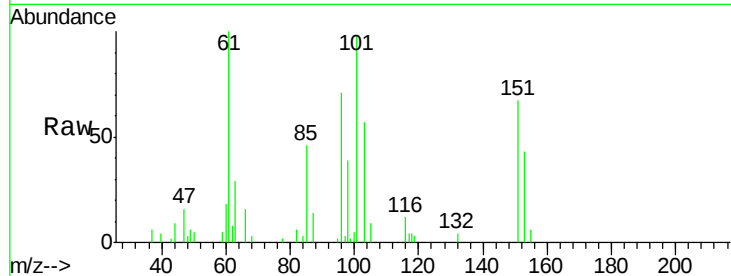
#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 5.119 ug/l
 RT: 3.90 min Scan# 355
 Delta R.T. -0.02 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
101	100		
85	41.8	35.3	52.9
151	74.5	57.0	85.4

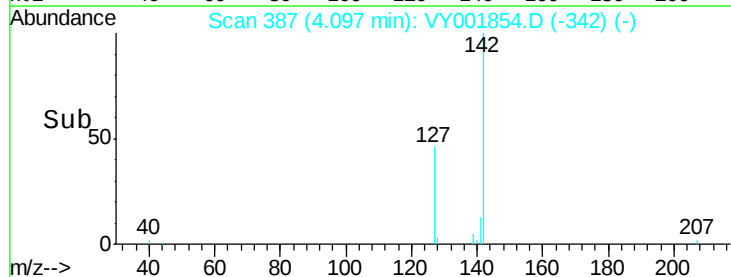
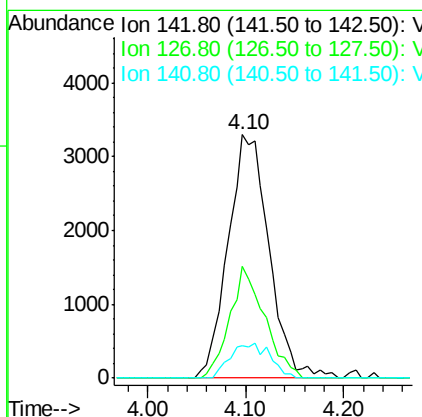
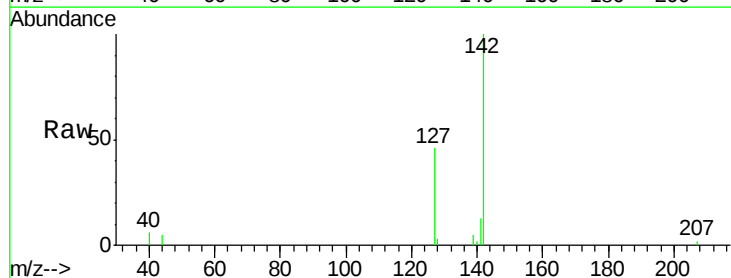
Manual Integrations
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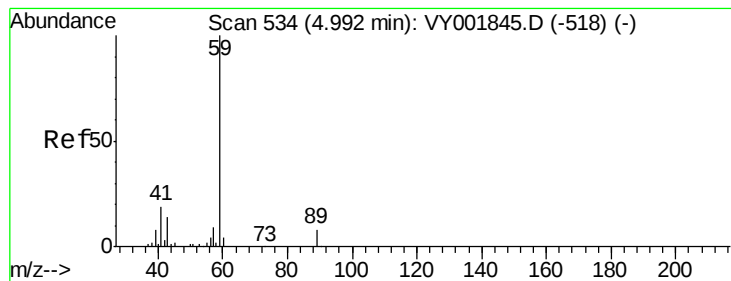
MMDadoda
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#10
 Methyl Iodide
 Concen: 4.243 ug/l
 RT: 4.10 min Scan# 387
 Delta R.T. -0.02 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
142	100		
127	38.9	32.7	49.1
141	13.8	11.0	16.6





#11

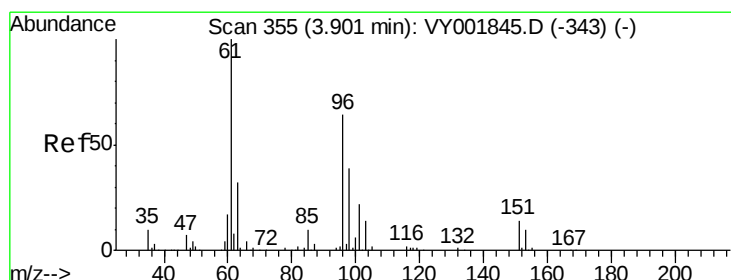
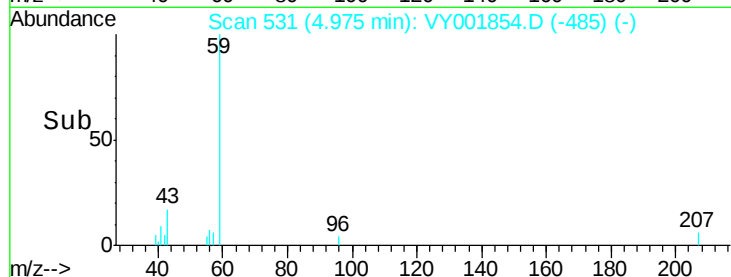
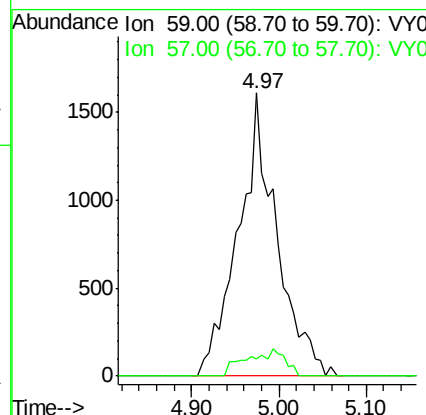
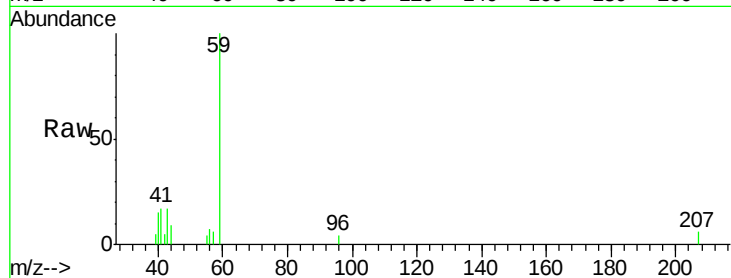
Tert butyl alcohol
Concen: 21.340 ug/l
RT: 4.97 min Scan# 531
Delta R.T. -0.02 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
59	100		
57	9.6	7.4	11.2

Manual Integrations
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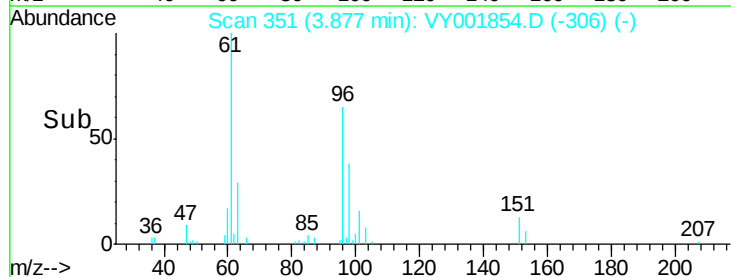
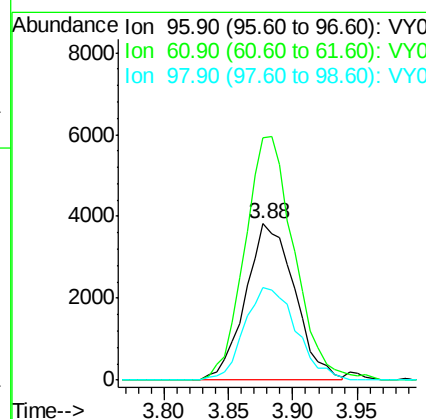
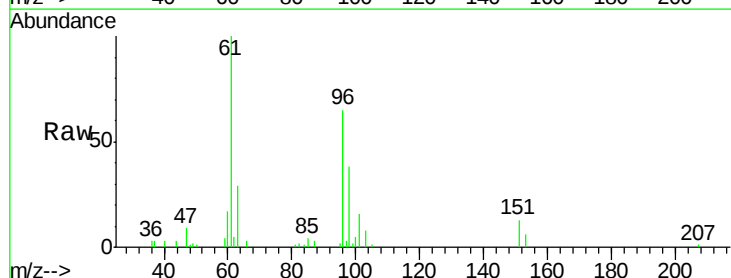
MMDadoda
3/5/2020 1:37:27 PM

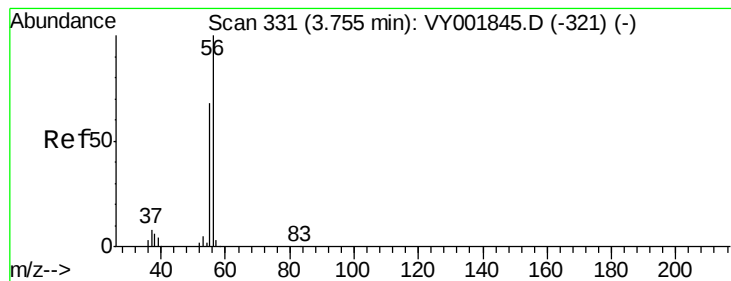


#12

1,1-Dichloroethene
Concen: 5.151 ug/l
RT: 3.88 min Scan# 351
Delta R.T. -0.02 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
96	100		
61	155.0	124.8	187.2
98	59.4	49.2	73.8





#13

Acrolein

Concen: 27.222 ug/l

RT: 3.74 min Scan# 328

Delta R.T. -0.02 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion: 56 Resp: 7210

Ion Ratio Lower Upper

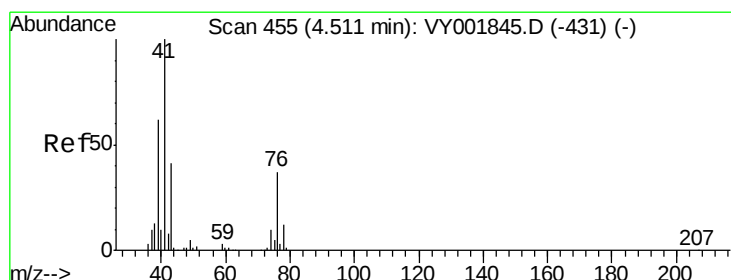
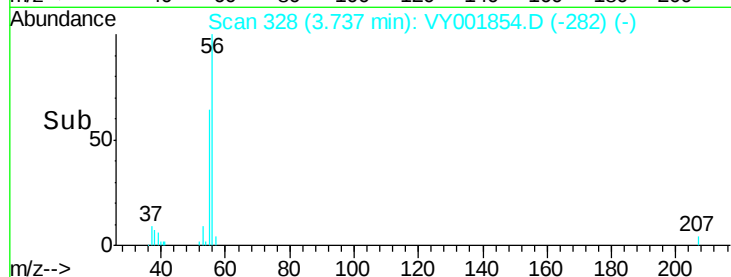
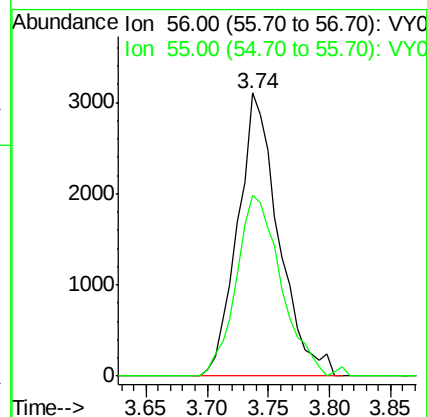
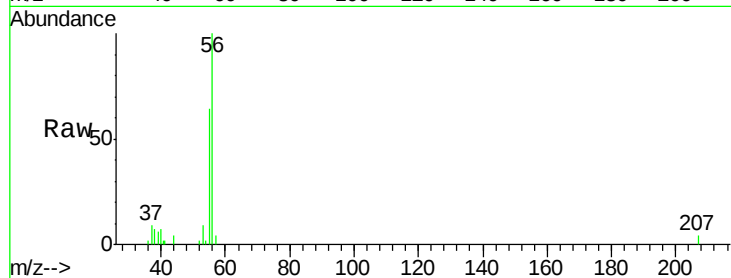
56 100

55 69.5 54.0 81.0

Manual Integrations
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#14

Allyl chloride

Concen: 4.943 ug/l

RT: 4.49 min Scan# 451

Delta R.T. -0.02 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

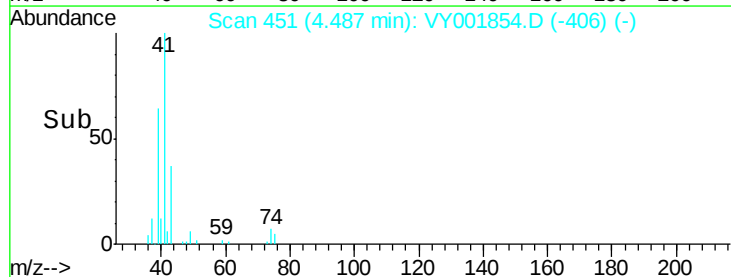
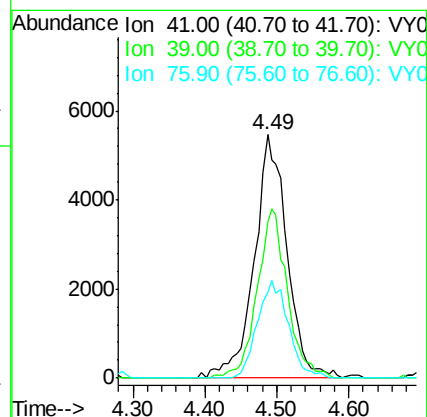
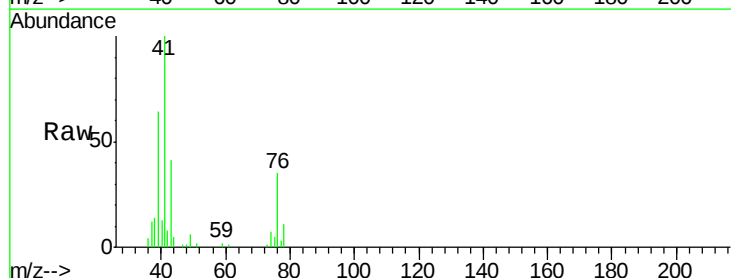
Tgt Ion: 41 Resp: 17201

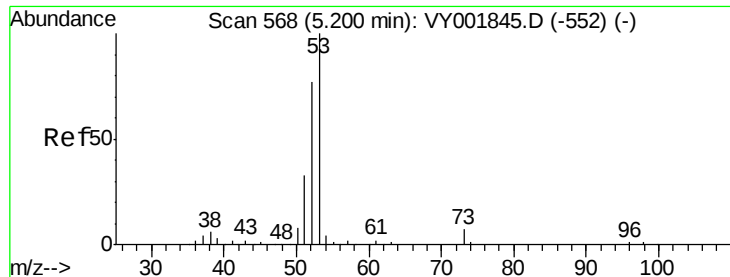
Ion Ratio Lower Upper

41 100

39 64.4 49.0 73.6

76 38.0 28.9 43.3





#15

Acrylonitrile

Concen: 24.762 ug/l

RT: 5.18 min Scan# 565

Delta R.T. -0.02 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Instrument :

MSVOA_Y

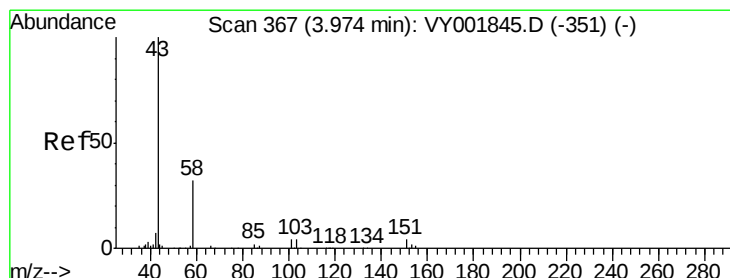
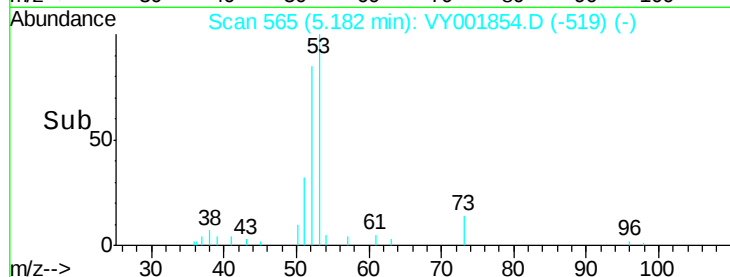
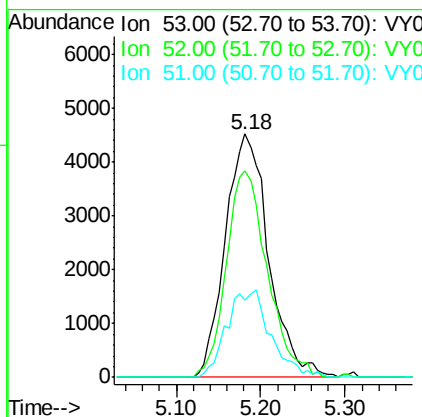
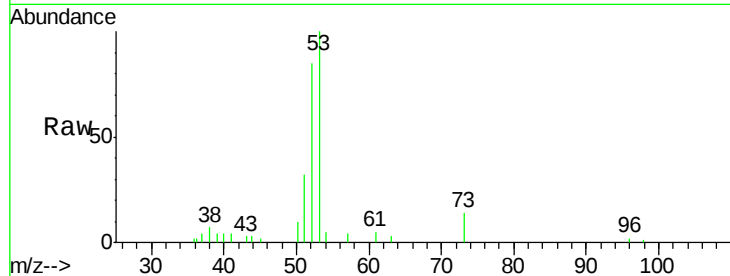
ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion:	53	Resp:	15807
Ion	Ratio	Lower	Upper
53	100		
52	80.4	65.1	97.7
51	36.4	27.5	41.3

Manual Integrations
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#16

Acetone

Concen: 23.101 ug/l

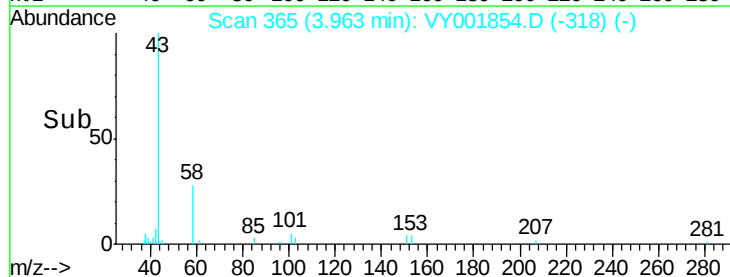
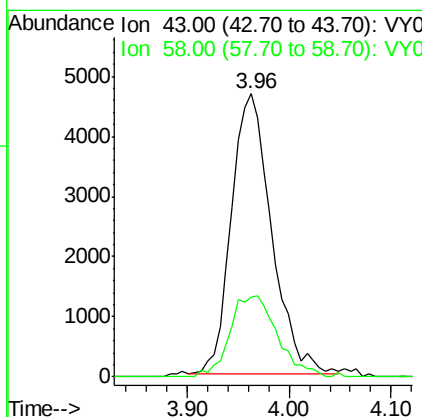
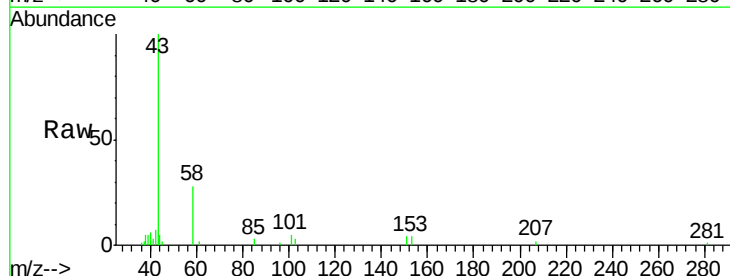
RT: 3.96 min Scan# 365

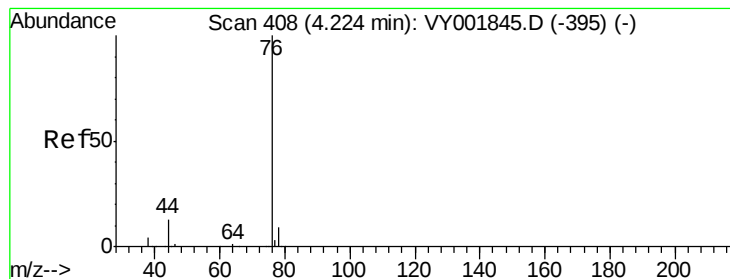
Delta R.T. -0.01 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Tgt Ion:	43	Resp:	12682
Ion	Ratio	Lower	Upper
43	100		
58	28.4	25.9	38.9





#17

Carbon Disulfide

Concen: 4.824 ug/l

RT: 4.20 min Scan# 404

Delta R.T. -0.02 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion: 76 Resp: 31831

Ion Ratio Lower Upper

76 100

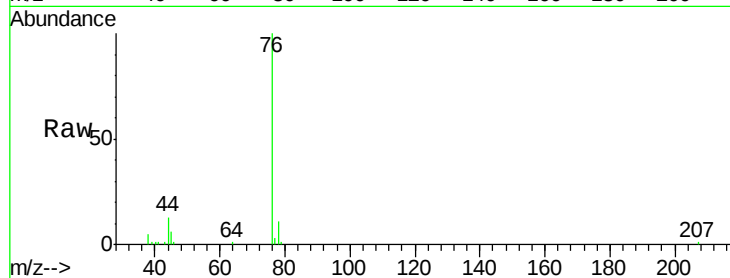
78 10.9 7.4 11.2

Manual Integrations

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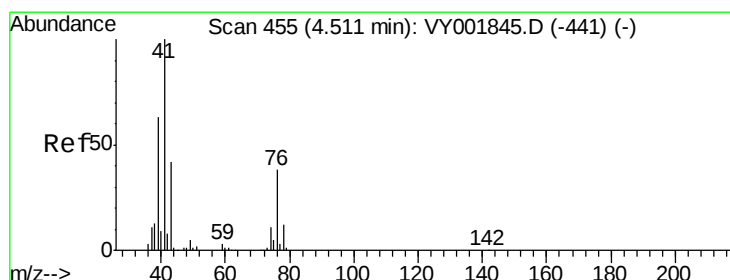
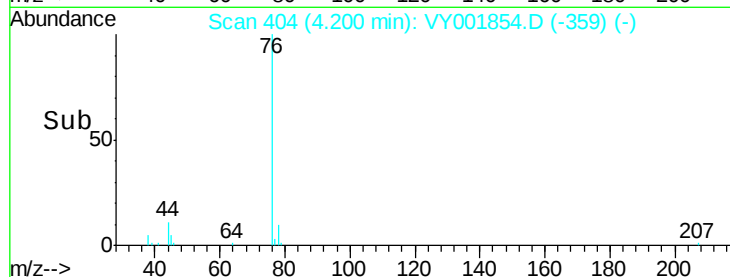
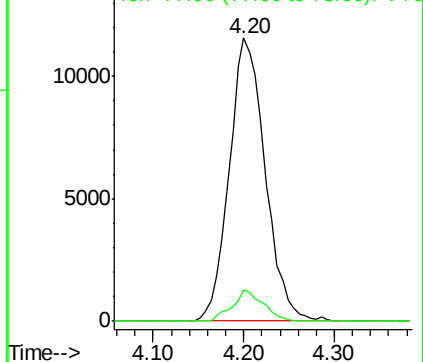
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



#18

Methyl Acetate

Concen: 5.082 ug/l

RT: 4.49 min Scan# 452

Delta R.T. -0.02 min

Lab File: VY001854.D

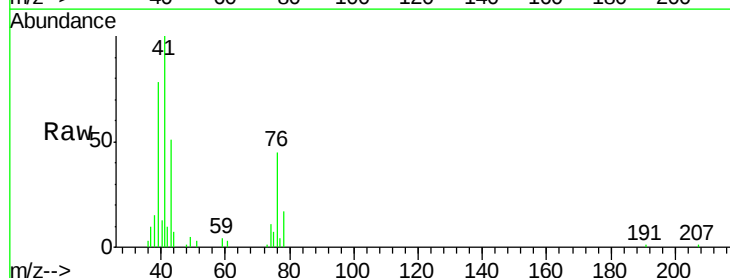
Acq: 04 Mar 2020 15:28

Tgt Ion: 43 Resp: 7168

Ion Ratio Lower Upper

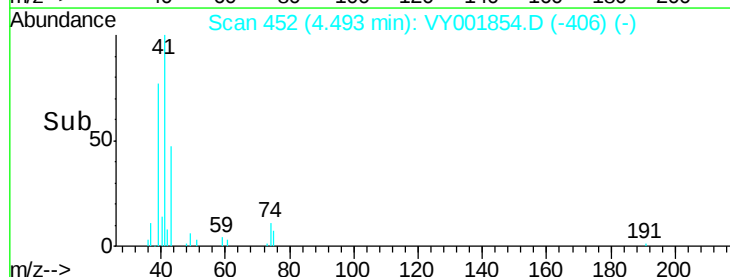
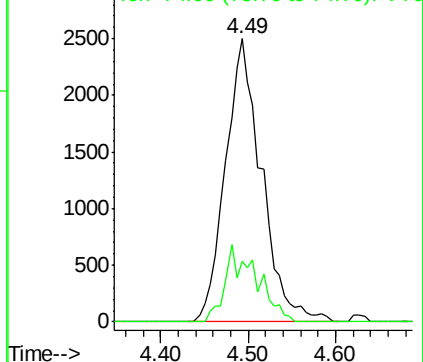
43 100

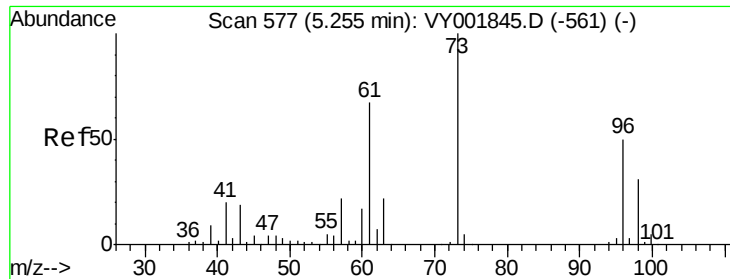
74 23.7 19.0 28.6



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 74.00 (73.70 to 74.70): VY0





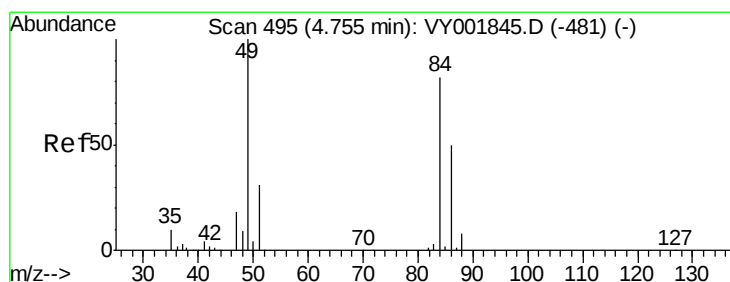
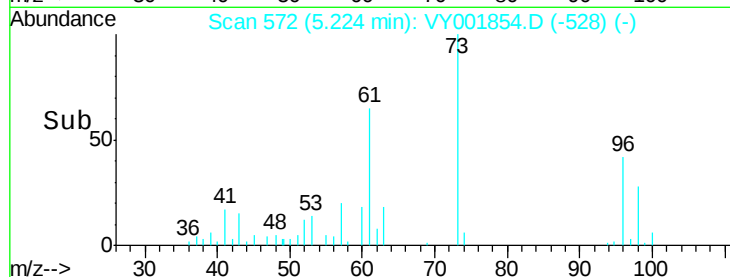
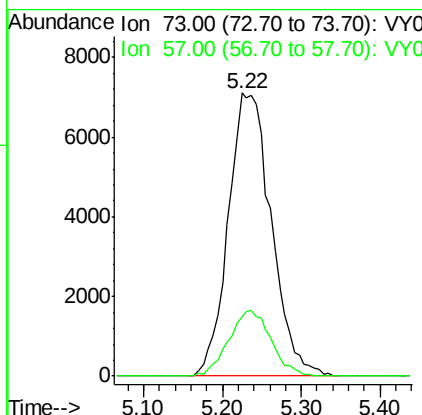
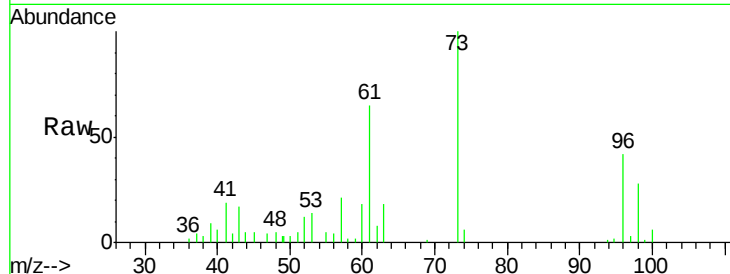
#19
Methyl tert-butyl Ether
Concen: 5.056 ug/l
RT: 5.22 min Scan# 572
Delta R.T. -0.03 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion: 73 Resp: 26895
Ion Ratio Lower Upper
73 100
57 21.0 17.4 26.2

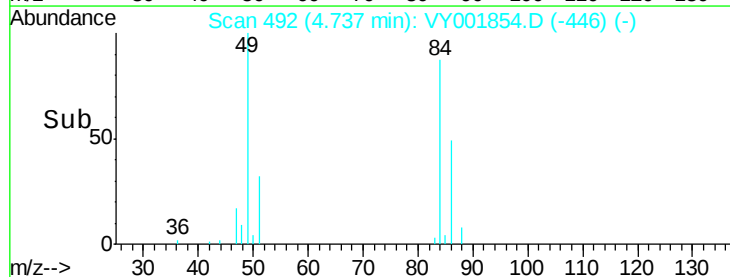
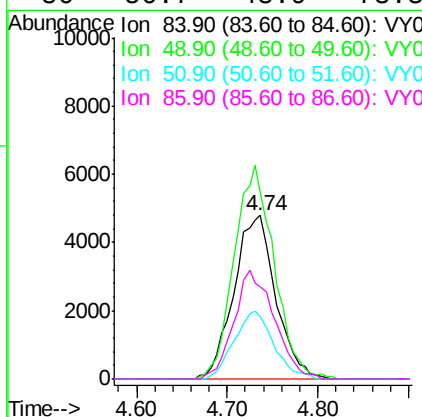
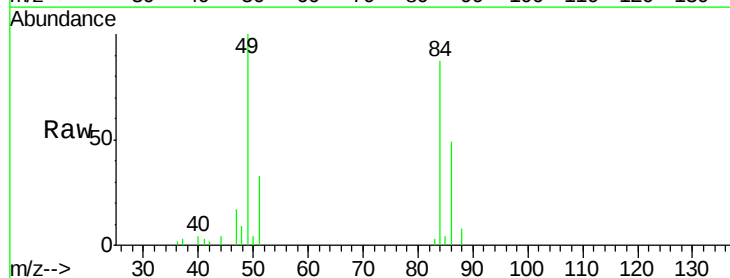
Manual Integrations
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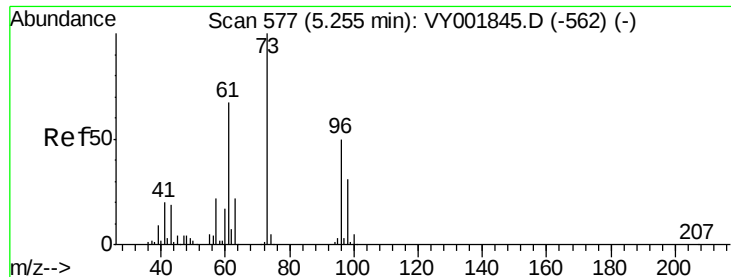
MMDadoda
3/5/2020 1:37:27 PM



#20
Methylene Chloride
Concen: 6.511 ug/l
RT: 4.74 min Scan# 492
Delta R.T. -0.02 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion: 84 Resp: 15318
Ion Ratio Lower Upper
84 100
49 114.7 98.2 147.2
51 38.2 30.2 45.2
86 56.7 48.9 73.3





#21

trans-1,2-Dichloroethene

Concen: 5.085 ug/l

RT: 5.23 min Scan# 573

Delta R.T. -0.02 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion: 96 Resp: 11330

Ion Ratio Lower Upper

96 100

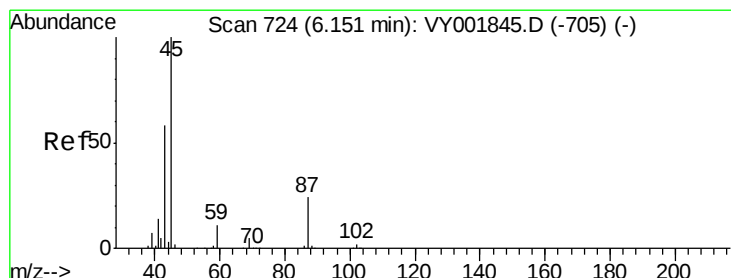
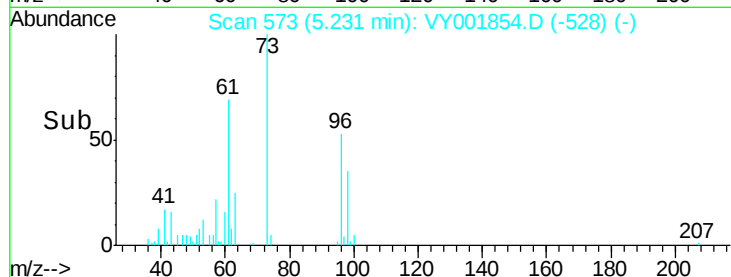
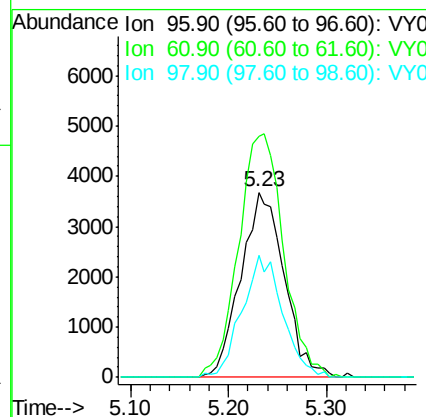
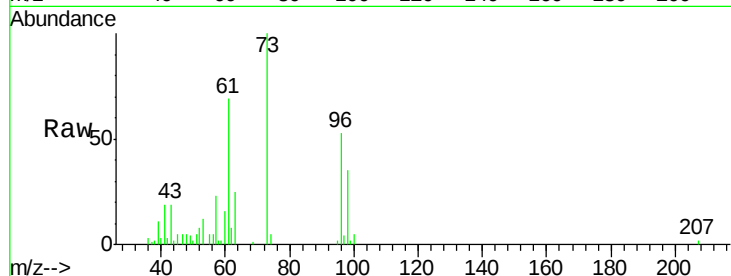
61 130.5 107.7 161.5

98 66.3 49.3 73.9

Manual Integrations
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#22

Diisopropyl ether

Concen: 5.018 ug/l

RT: 6.13 min Scan# 721

Delta R.T. -0.02 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Tgt Ion: 45 Resp: 35797

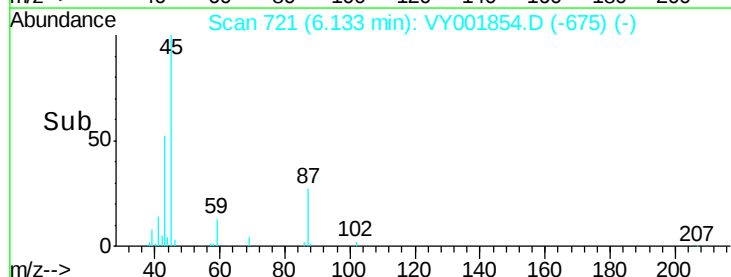
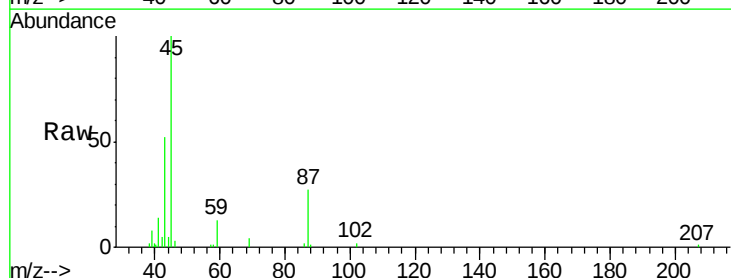
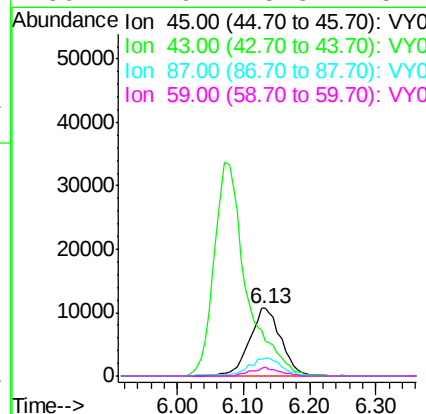
Ion Ratio Lower Upper

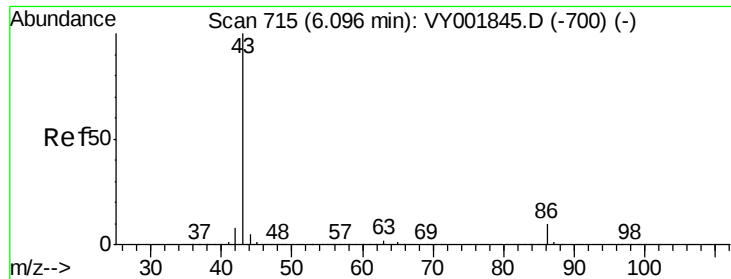
45 100

43 51.1 47.2 70.8

87 27.1 19.8 29.8

59 12.9 8.8 13.2





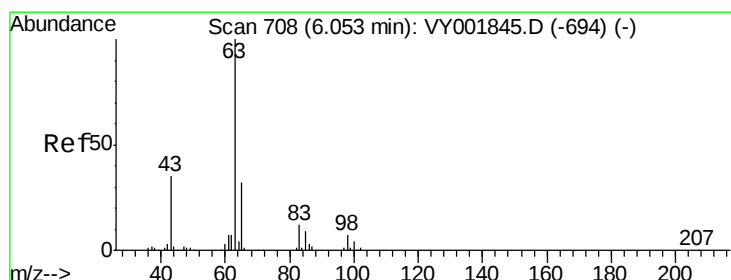
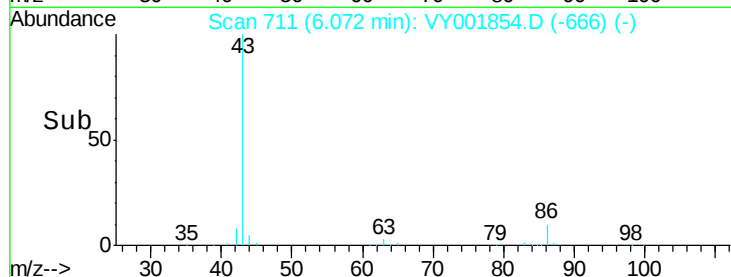
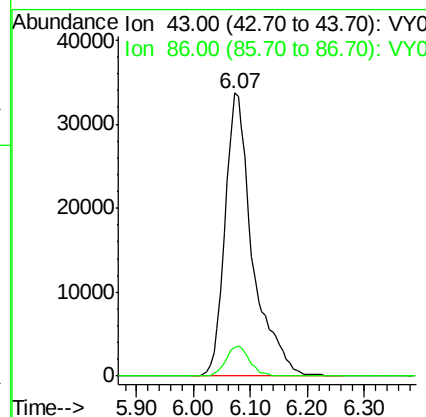
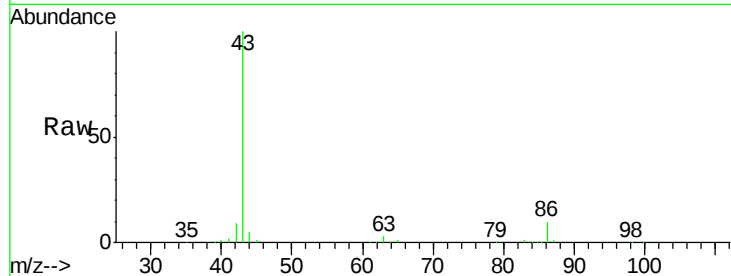
#23
 Vinyl Acetate
 Concen: 24.224 ug/l
 RT: 6.07 min Scan# 711
 Delta R.T. -0.02 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOQ-SOIL-02-QT1-2020

Tot Ion	43	Resp	113281
Ion Ratio	100	Lower	Upper
43	100		
86	10.1	7.8	11.8

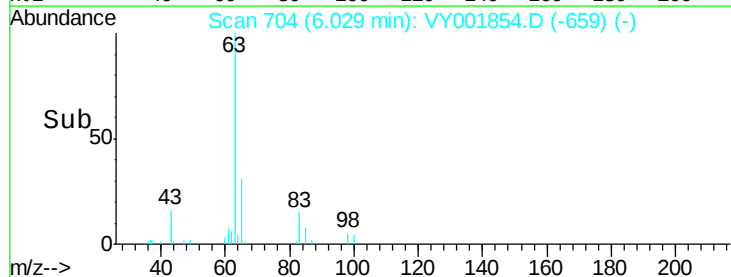
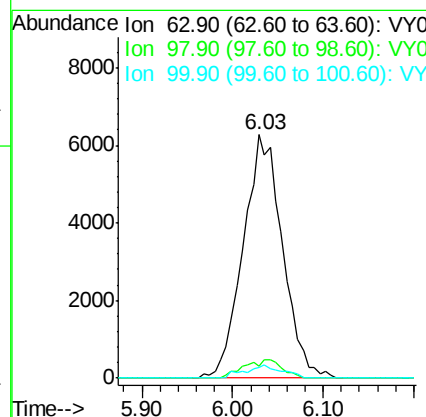
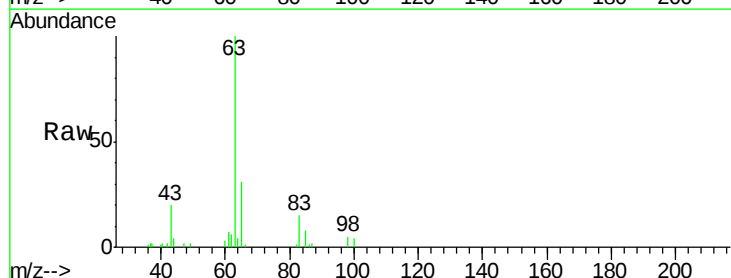
Manual Integrations
 APPROVED

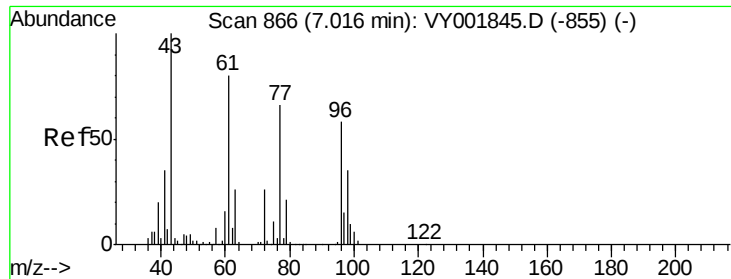
MMDadoda
 3/5/2020 1:37:27 PM



#24
 1,1-Dichloroethane
 Concen: 4.863 ug/l
 RT: 6.03 min Scan# 704
 Delta R.T. -0.02 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Tgt Ion	63	Resp	18786
Ion Ratio	100	Lower	Upper
63	100		
98	5.1	3.4	10.2
100	4.4	2.0	6.0





#25

2-Butanone

Concen: 23.675 ug/l

RT: 7.00 min Scan# 863

Delta R.T. -0.02 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion: 43 Resp: 19765

Ion Ratio Lower Upper

43 100

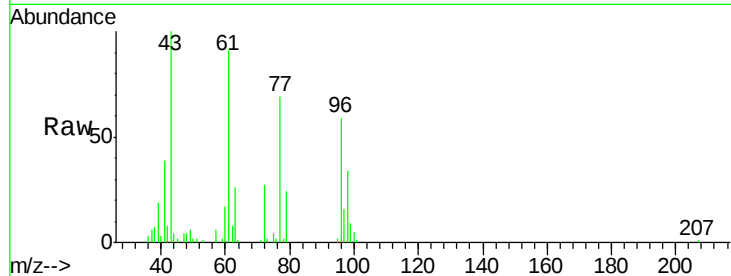
72 27.3 20.9 31.3

Manual Integrations

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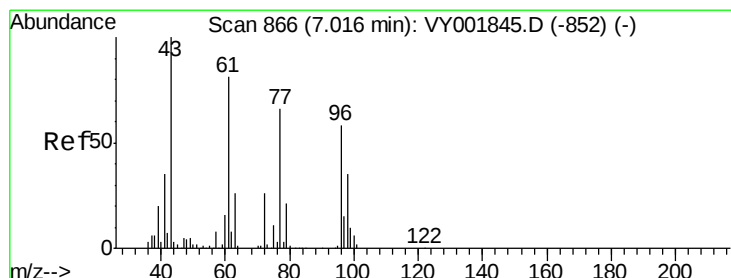
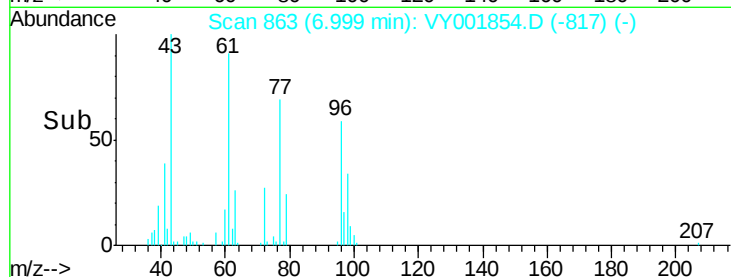
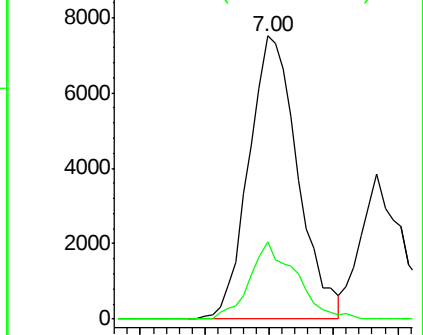
MMDadoda

3/5/2020 1:37:27 PM



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#26

2,2-Dichloropropane

Concen: 4.843 ug/l

RT: 6.99 min Scan# 862

Delta R.T. -0.02 min

Lab File: VY001854.D

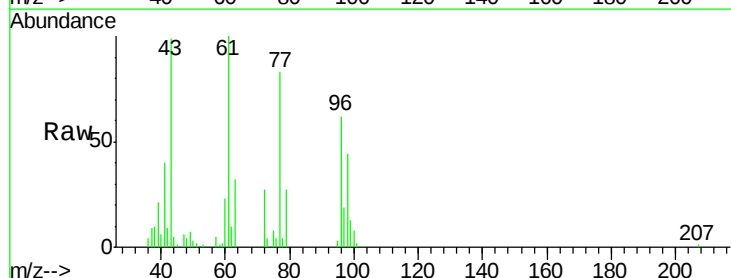
Acq: 04 Mar 2020 15:28

Tgt Ion: 77 Resp: 15355

Ion Ratio Lower Upper

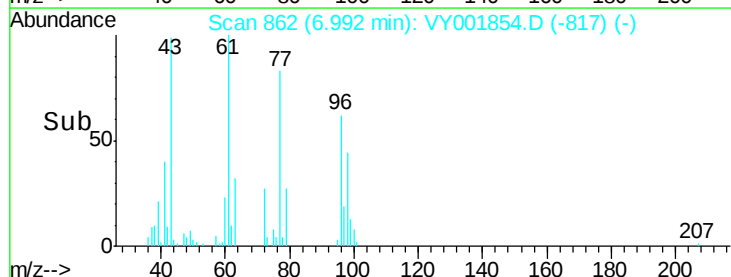
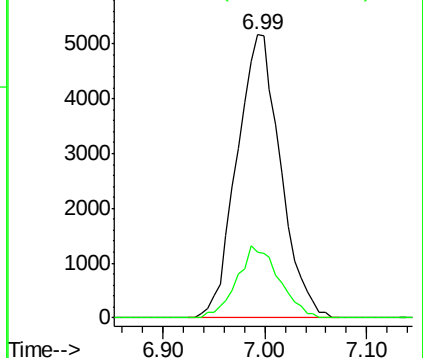
77 100

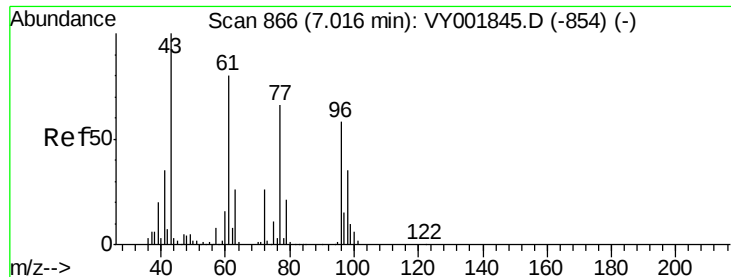
97 24.5 11.9 35.7



Abundance Ion 76.90 (76.60 to 77.60): VY0

Ion 96.90 (96.60 to 97.60): VY0





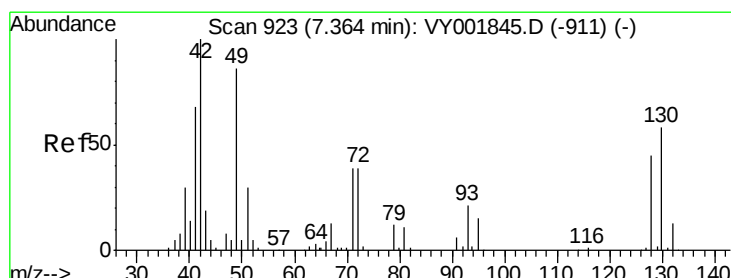
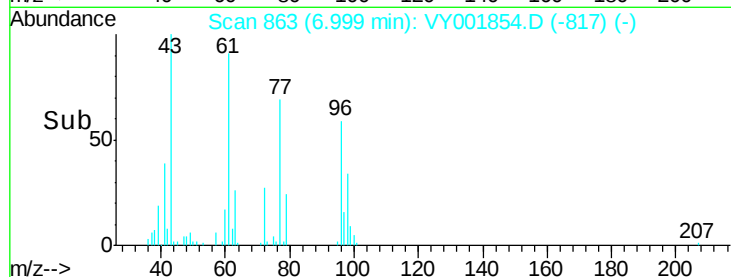
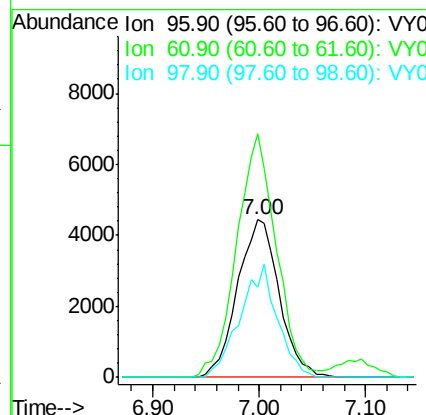
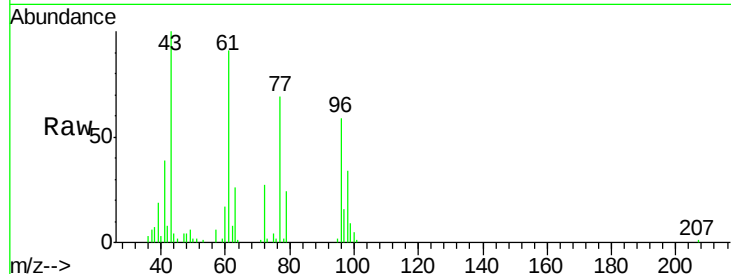
#27
 cis-1,2-Dichloroethene
 Concen: 5.009 ug/l
 RT: 7.00 min Scan# 863
 Delta R.T. -0.02 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
96	100		
61	146.9	0.0	288.2
98	64.2	0.0	129.0

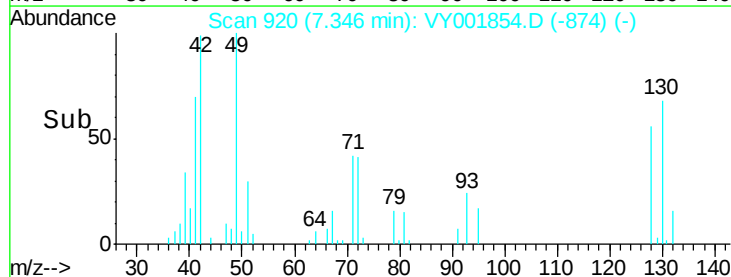
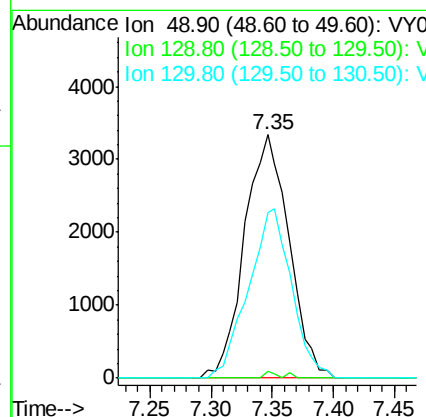
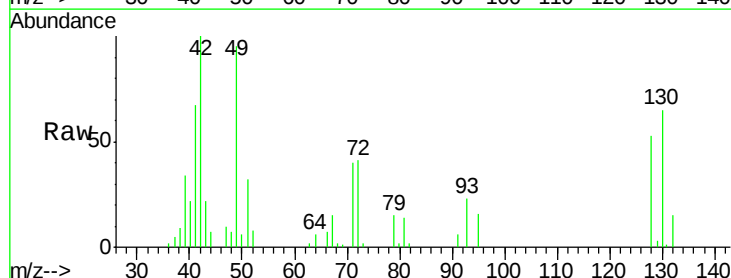
Manual Integrations
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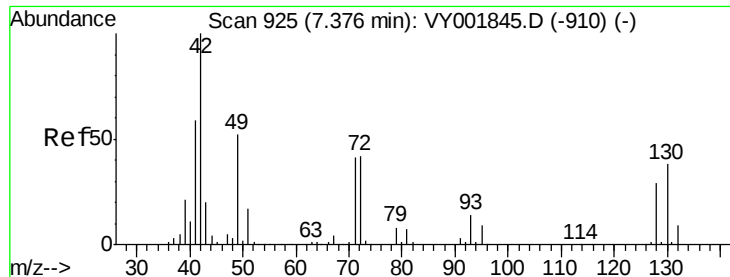
MMDadoda
 3/5/2020 1:37:27 PM



#28
 Bromochloromethane
 Concen: 4.839 ug/l
 RT: 7.35 min Scan# 920
 Delta R.T. -0.02 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.7	0.0	3.8
130	67.6	54.4	81.6





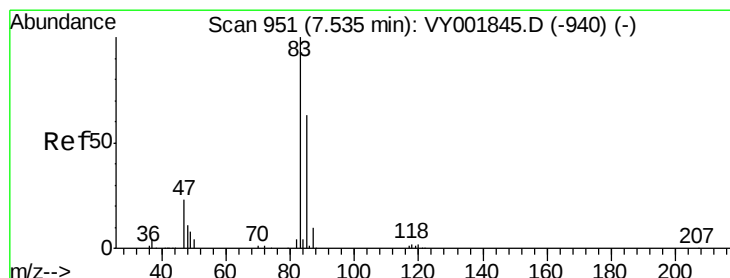
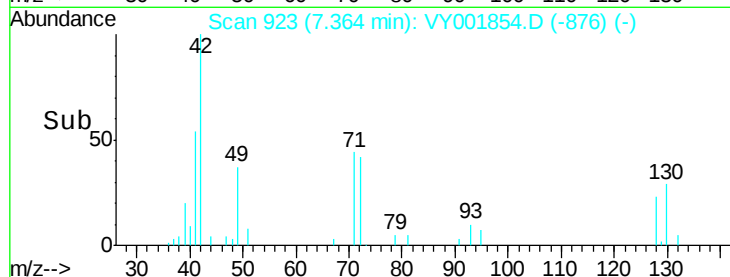
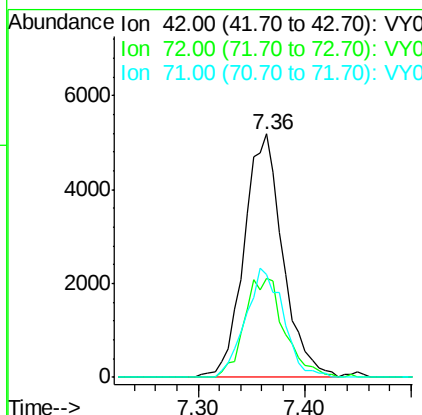
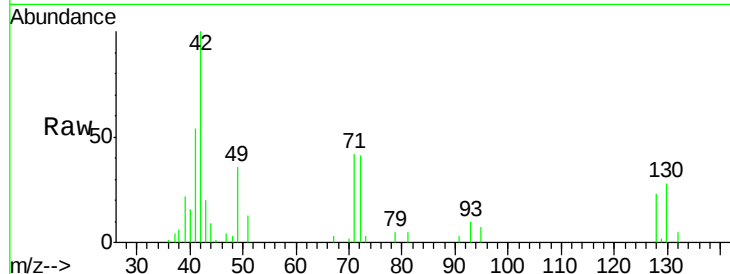
#29
Tetrahydrofuran
Concen: 23.836 ug/l
RT: 7.36 min Scan# 923
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
42	100		
72	42.1	33.5	50.3
71	43.9	31.3	46.9

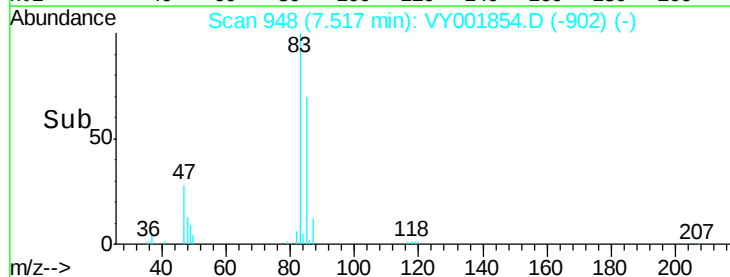
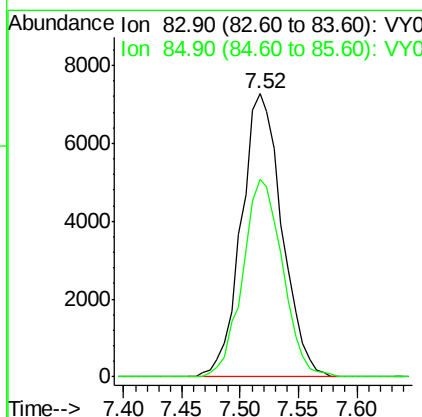
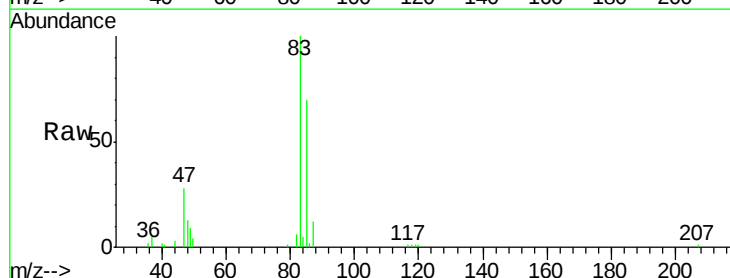
Manual Integrations
APPROVED

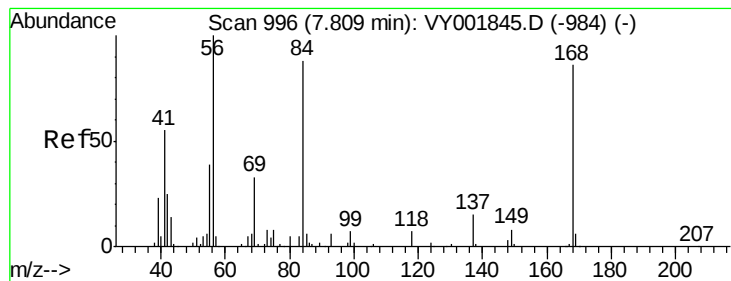
MMDadoda
3/5/2020 1:37:27 PM



#30
Chloroform
Concen: 4.874 ug/l
RT: 7.52 min Scan# 948
Delta R.T. -0.02 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
83	100		
85	70.0	50.7	76.1





#31

Cyclohexane

Concen: 5.721 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion: 56 Resp: 23694

Ion Ratio Lower Upper

56 100

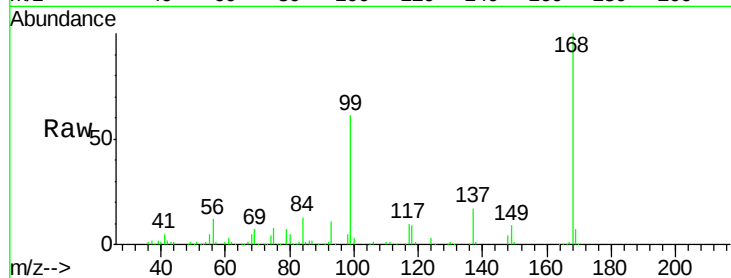
69 57.3 26.7 40.1#

84 103.4 70.4 105.6

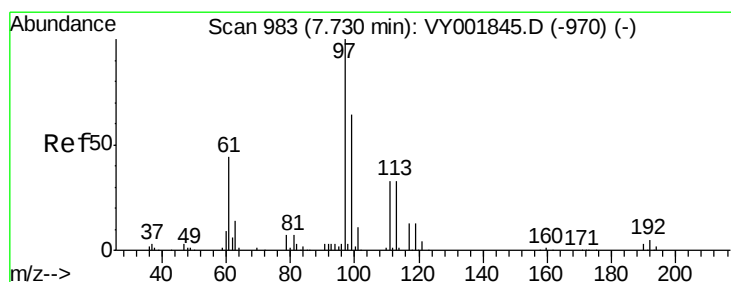
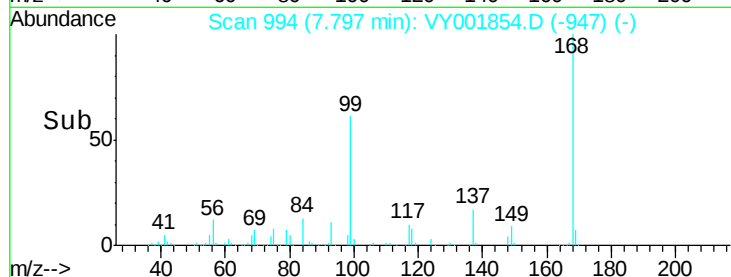
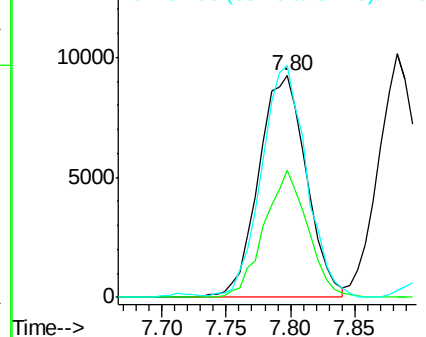
Manual Integrations
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Abundance Ion 56.00 (55.70 to 56.70): VY0
Ion 69.00 (68.70 to 69.70): VY0
Ion 84.00 (83.70 to 84.70): VY0



#32

1,1,1-Trichloroethane

Concen: 5.013 ug/l

RT: 7.71 min Scan# 980

Delta R.T. -0.02 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

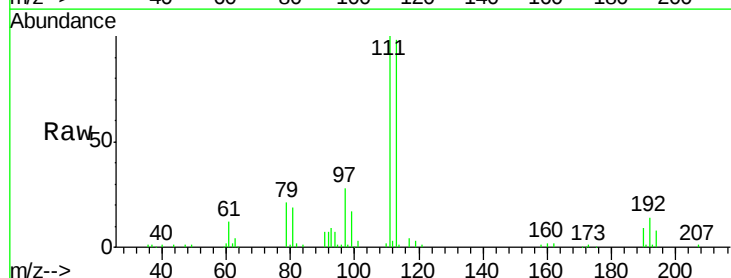
Tgt Ion: 97 Resp: 15334

Ion Ratio Lower Upper

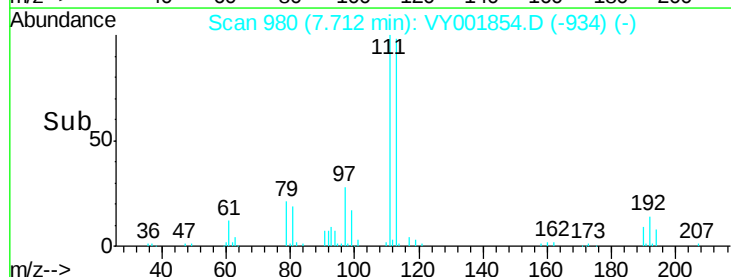
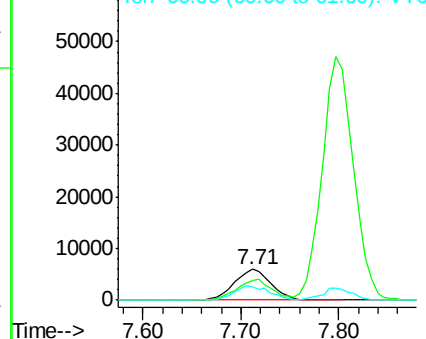
97 100

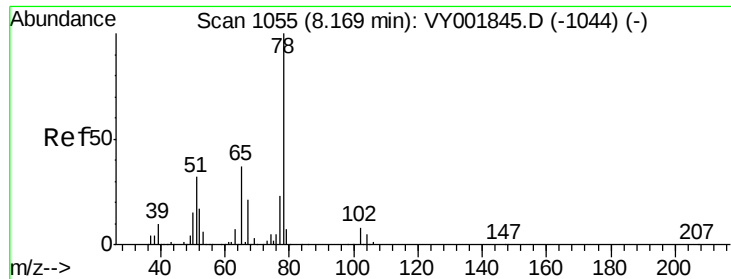
99 65.4 52.0 78.0

61 45.1 35.0 52.4



Abundance Ion 96.90 (96.60 to 97.60): VY0
Ion 98.90 (98.60 to 99.60): VY0
Ion 60.90 (60.60 to 61.60): VY0





#33

1,2-Dichloroethane-d4

Concen: 54.769 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.02 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion: 65 Resp: 103230

Ion Ratio Lower Upper

65 100

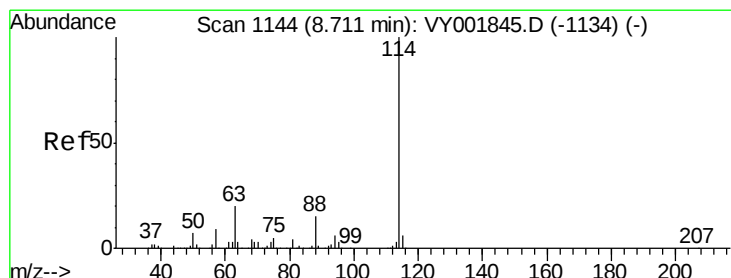
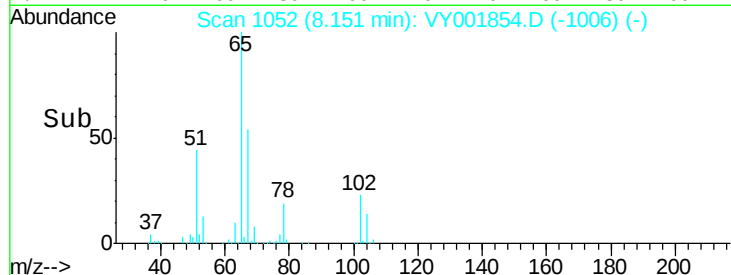
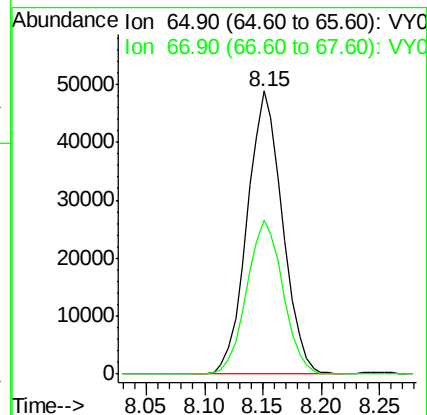
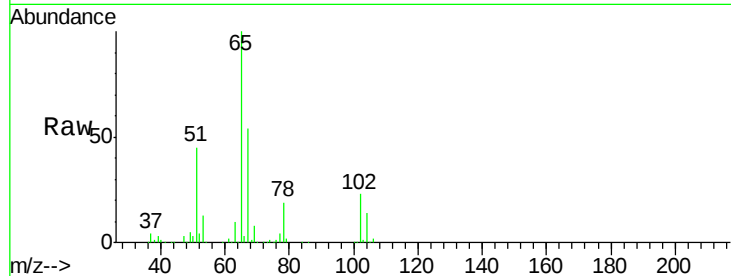
67 55.4 0.0 110.8

Manual Integrations

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#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

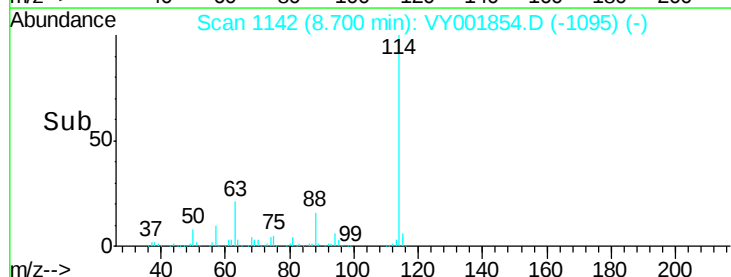
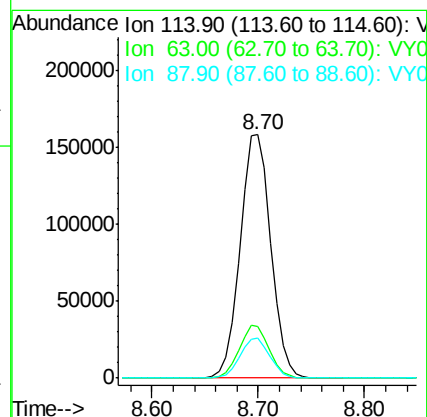
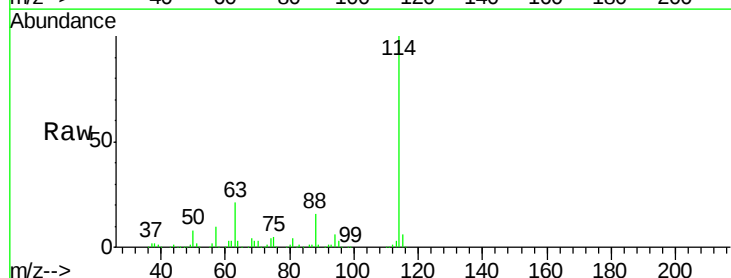
Tgt Ion: 114 Resp: 319844

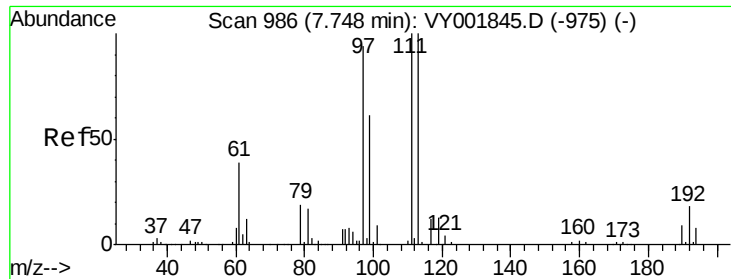
Ion Ratio Lower Upper

114 100

63 21.3 0.0 39.4

88 16.4 0.0 30.4





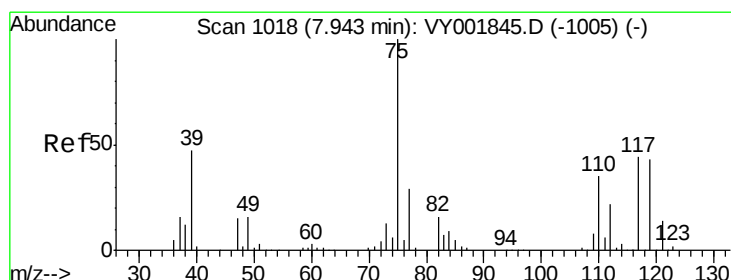
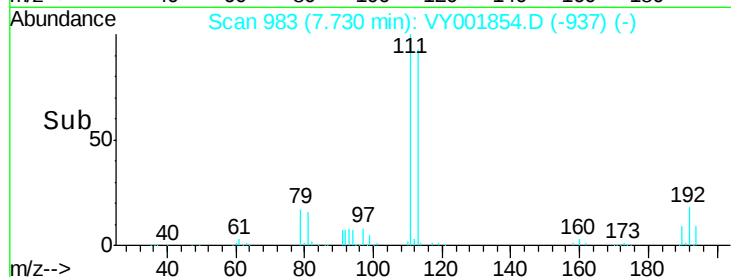
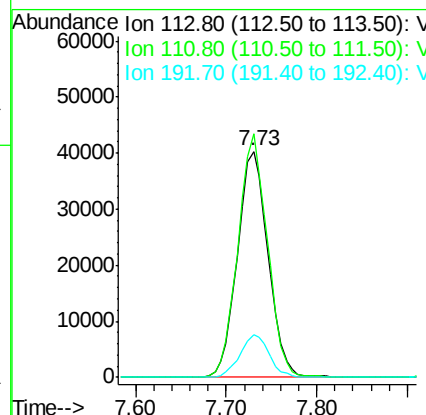
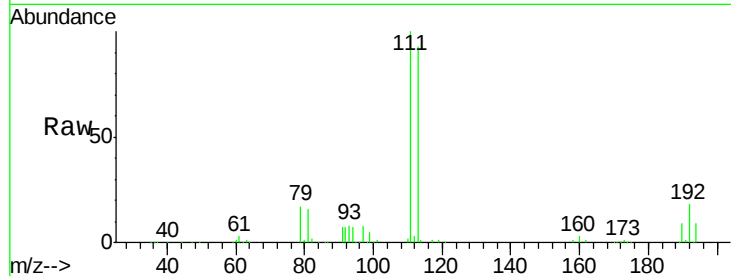
#35
Dibromofluoromethane
Concen: 54.166 ug/l
RT: 7.73 min Scan# 983
Delta R.T. -0.02 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.8	122.8
192	17.9	14.2	21.2

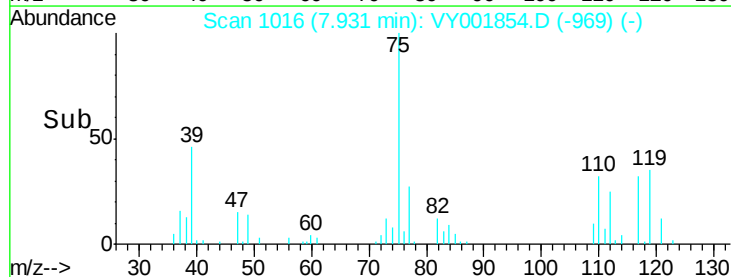
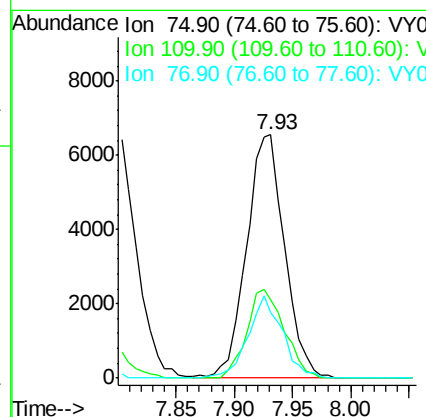
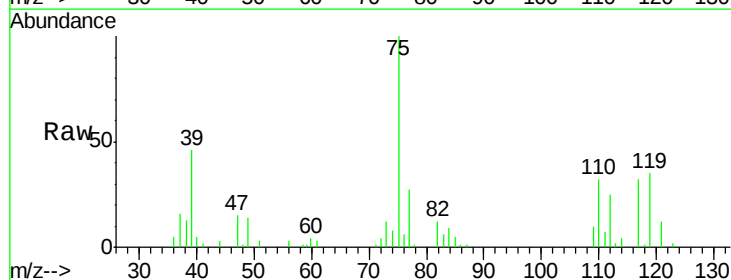
Manual Integrations
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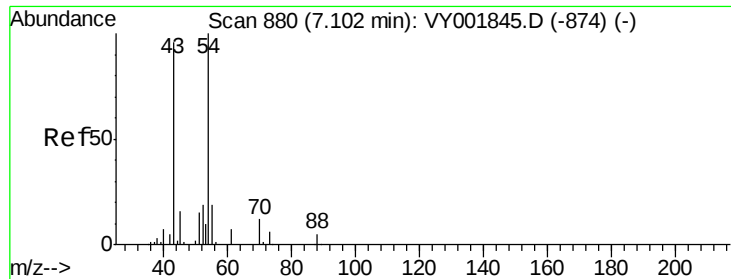
MMDadoda
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#36
1,1-Dichloropropene
Concen: 4.865 ug/l
RT: 7.93 min Scan# 1016
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	35.6	17.4	52.2
77	30.5	24.2	36.2





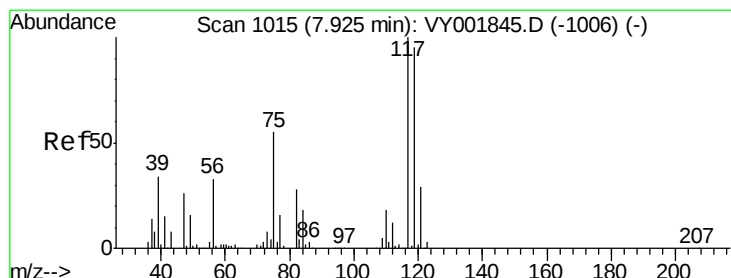
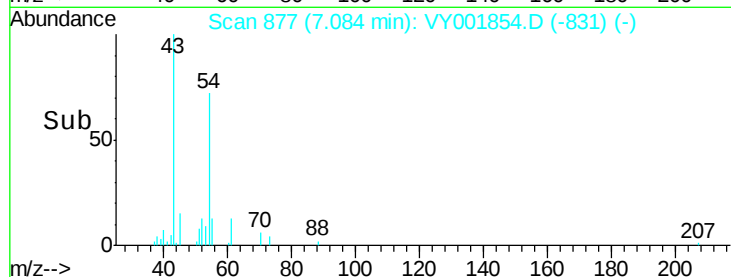
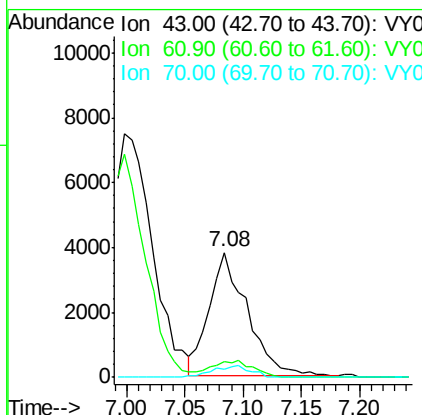
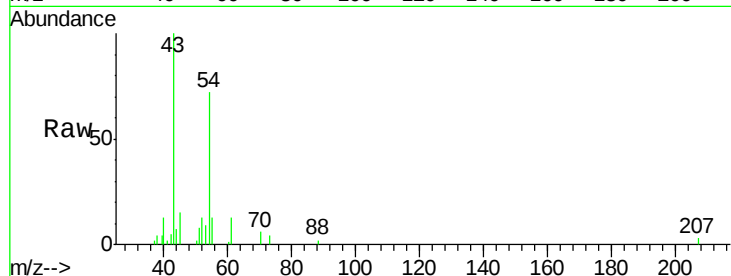
#37
Ethyl Acetate
Concen: 4.808 ug/l
RT: 7.08 min Scan# 877
Delta R.T. -0.02 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.7	11.1	16.7
70	9.4	8.2	12.4

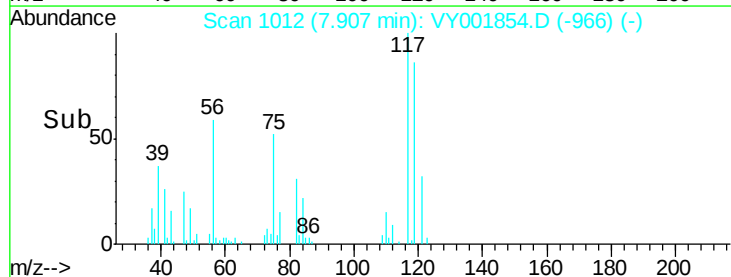
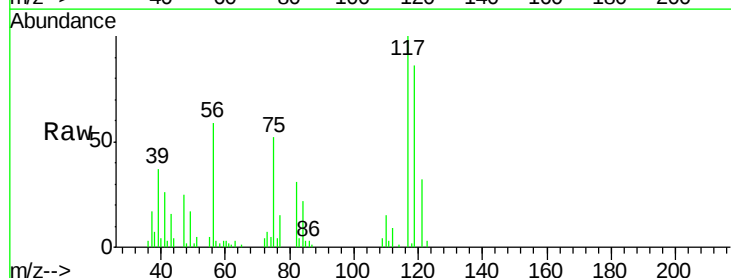
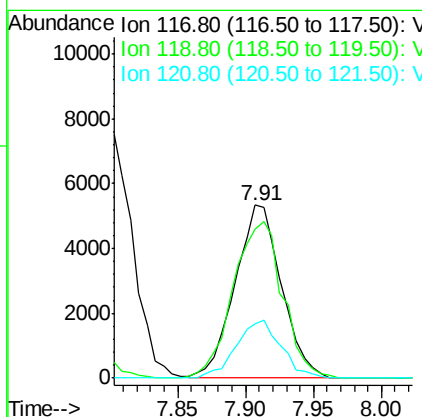
Manual Integrations
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#38
Carbon Tetrachloride
Concen: 4.848 ug/l
RT: 7.91 min Scan# 1012
Delta R.T. -0.02 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
117	100		
119	85.8	76.3	114.5
121	31.6	23.5	35.3





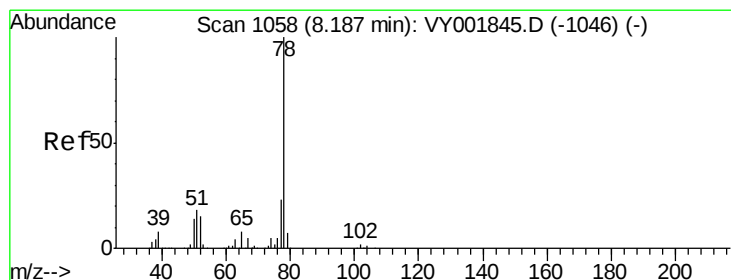
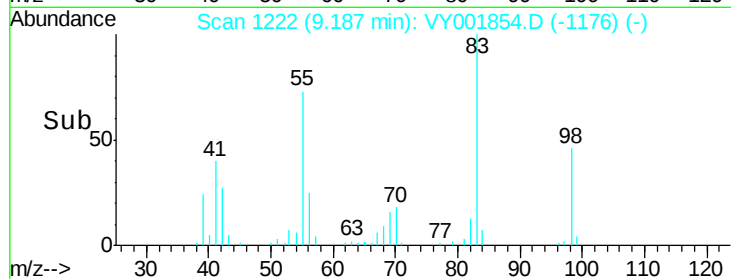
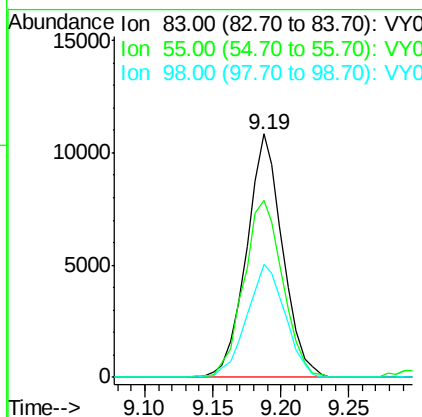
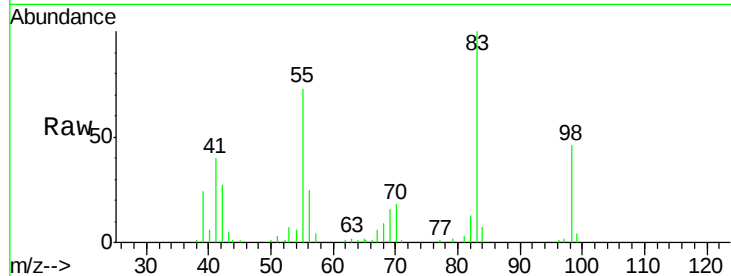
#39
Methvlcvclohexane
Concen: 4.925 ug/l
RT: 9.19 min Scan# 1222
Delta R.T. -0.02 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
83	100		
55	72.7	59.4	89.0
98	46.4	38.9	58.3

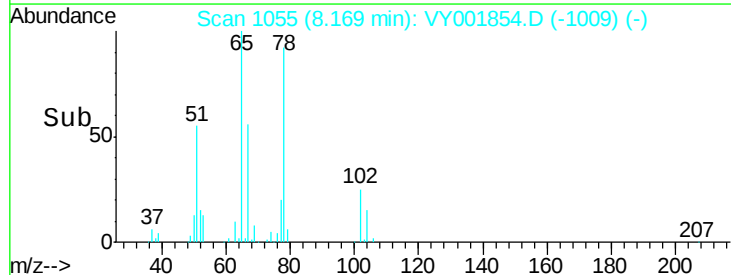
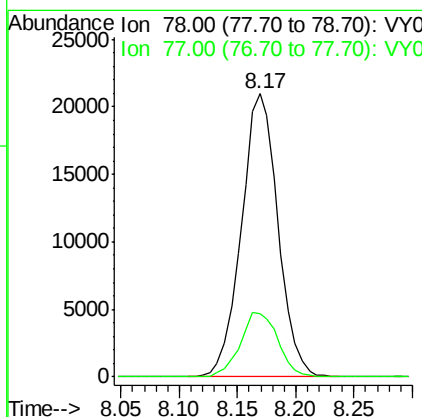
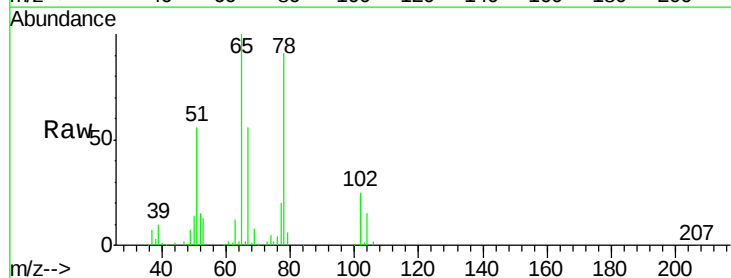
Manual Integrations
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#40
Benzene
Concen: 5.033 ug/l
RT: 8.17 min Scan# 1055
Delta R.T. -0.02 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.2	18.7	28.1





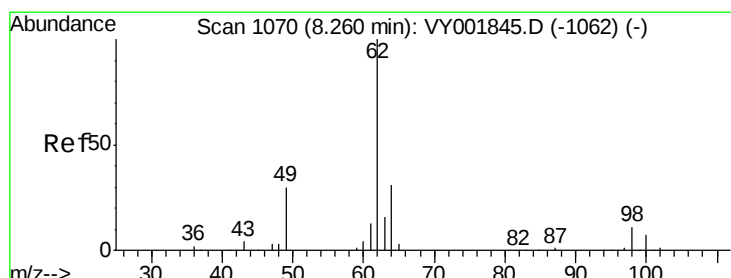
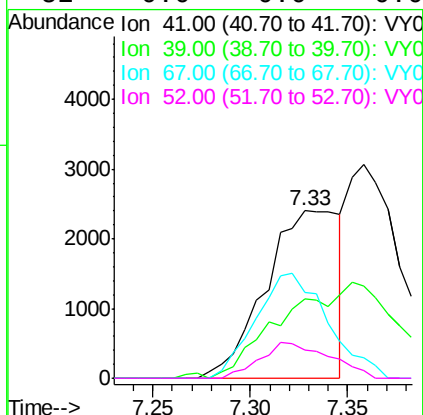
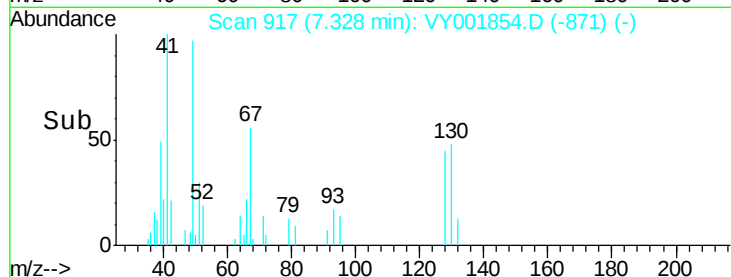
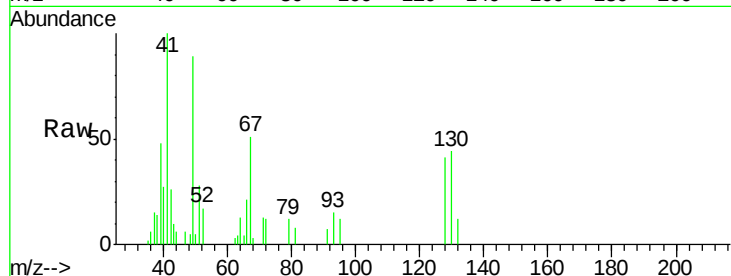
#41
Methacrylonitrile
Concen: 7.944 ug/l m
RT: 7.33 min Scan# 917
Delta R.T. -0.02 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
41	100		
39	89.1	111.7	167.5#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

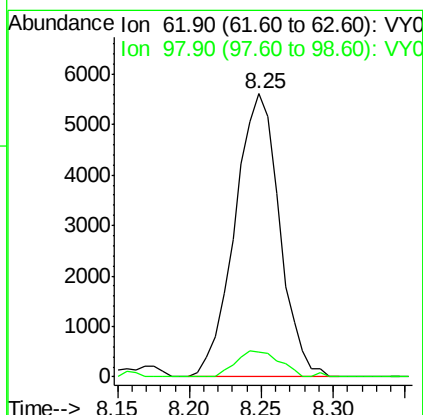
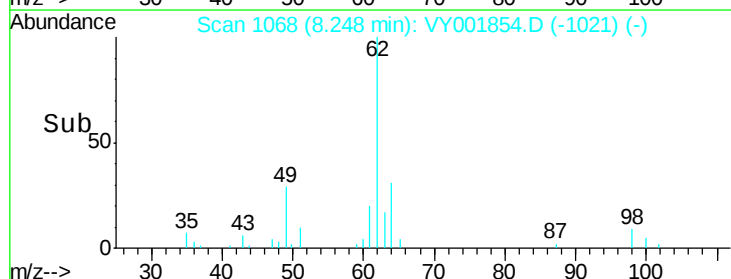
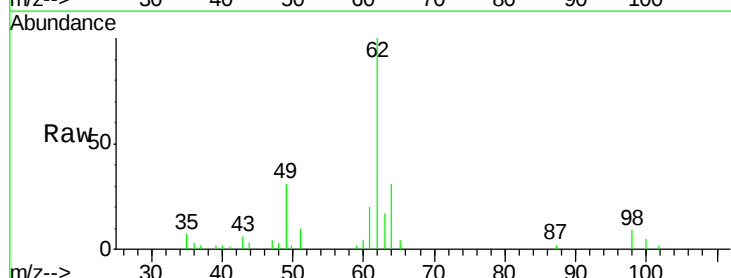
Manual Integrations
APPROVED

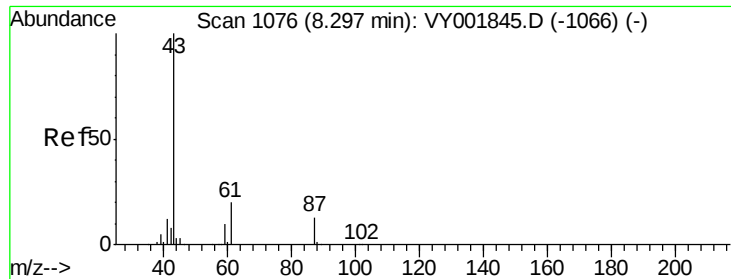
MMDadoda
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#42
1,2-Dichloroethane
Concen: 5.145 ug/l
RT: 8.25 min Scan# 1068
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.1	0.0	21.4





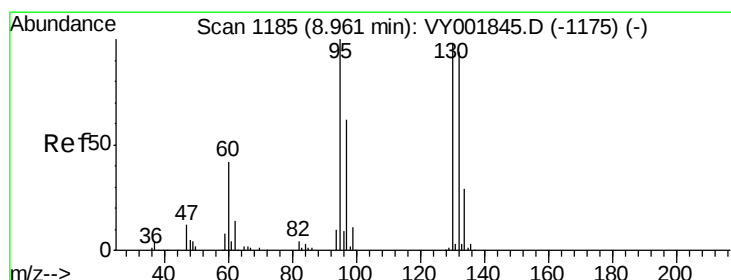
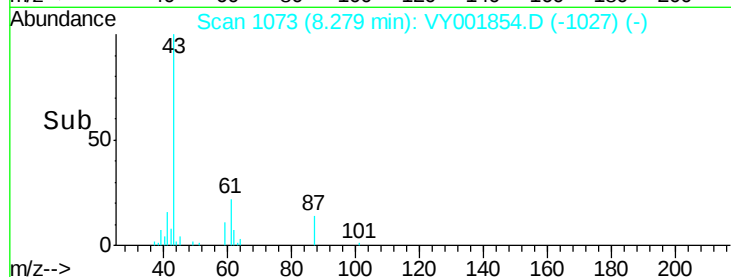
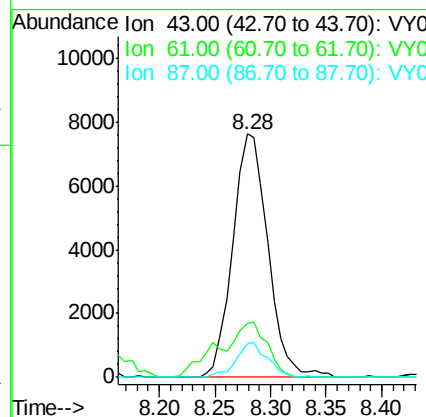
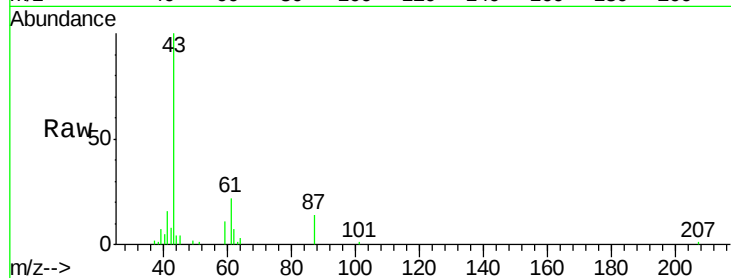
#43
Isopropyl Acetate
Concen: 4.938 ug/l
RT: 8.28 min Scan# 1073
Delta R.T. -0.02 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion	43	Resp	16725
Ion Ratio	100	Lower	Upper
43	100		
61	20.3	23.8	35.6#
87	12.8	10.9	16.3

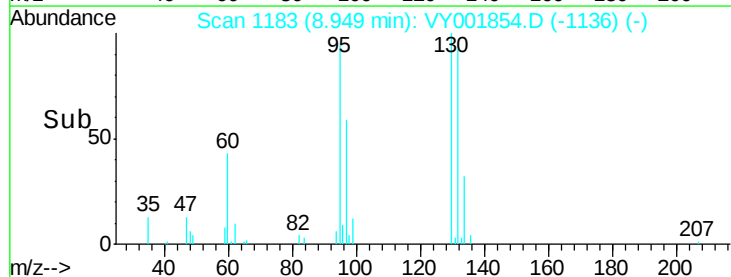
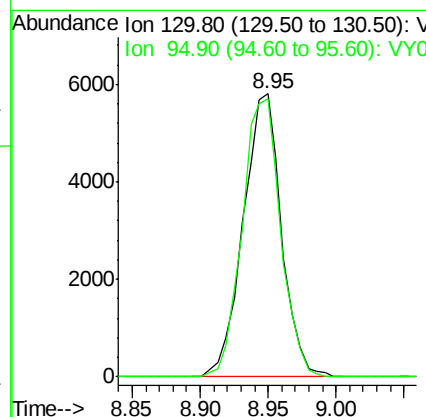
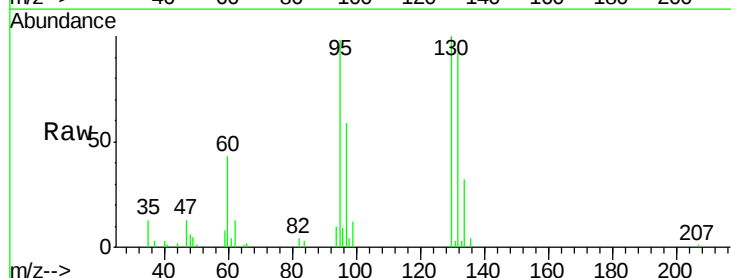
Manual Integrations
APPROVED

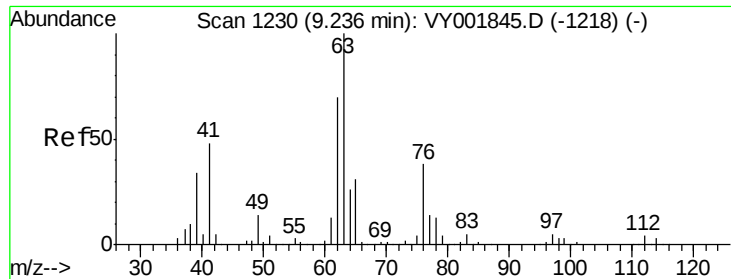
MMDadoda
3/5/2020 1:37:27 PM



#44
Trichloroethene
Concen: 5.123 ug/l
RT: 8.95 min Scan# 1183
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion	130	Resp	11383
Ion Ratio	100	Lower	Upper
130	100		
95	98.3	0.0	204.6





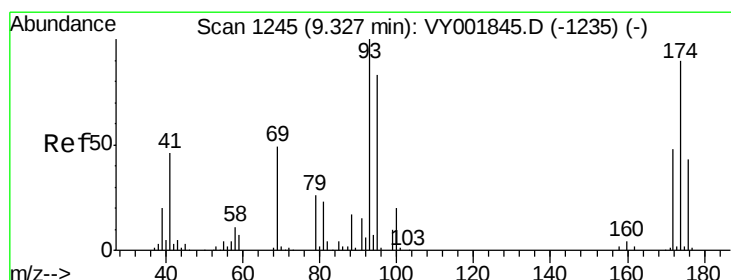
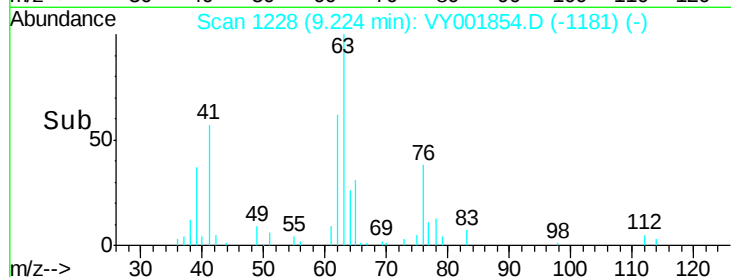
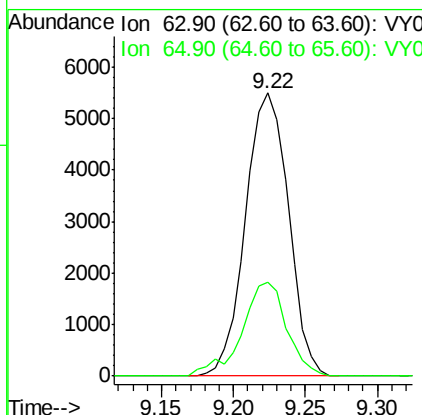
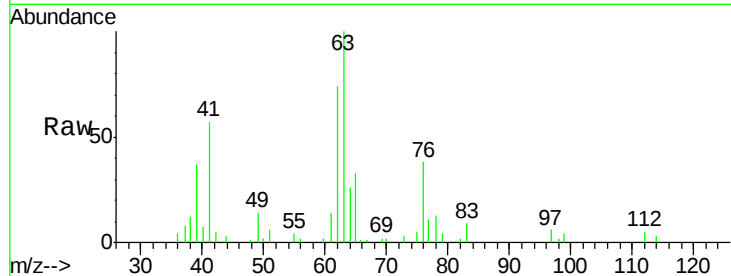
#45
 1,2-Dichloropropane
 Concen: 4.954 ug/l
 RT: 9.22 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOQ-SOIL-02-QT1-2020

Tot Ion: 63 Resp: 11360
 Ion Ratio Lower Upper
 63 100
 65 33.2 24.9 37.3

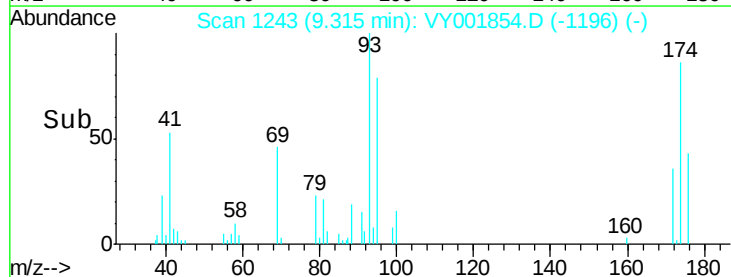
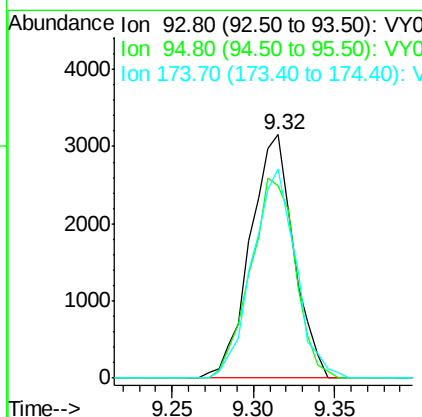
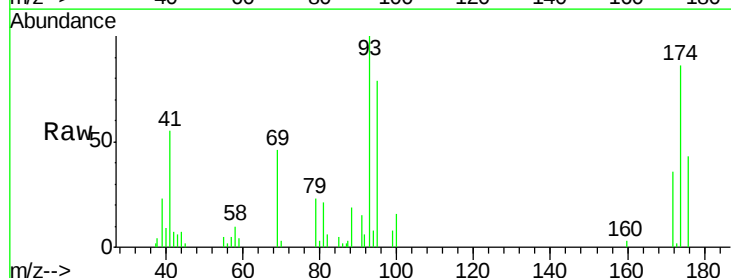
Manual Integrations
 APPROVED

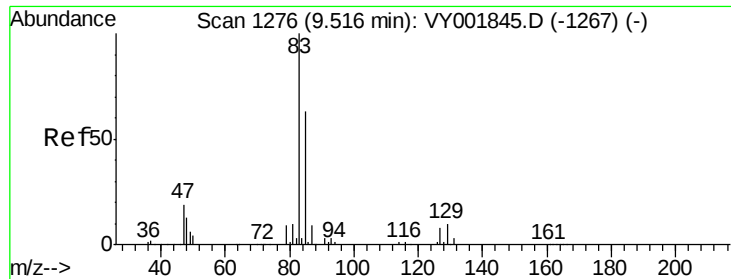
MMDadoda
 3/5/2020 1:37:27 PM



#46
 Dibromomethane
 Concen: 4.949 ug/l
 RT: 9.32 min Scan# 1243
 Delta R.T. -0.01 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Tgt Ion: 93 Resp: 5849
 Ion Ratio Lower Upper
 93 100
 95 85.0 67.0 100.4
 174 85.4 71.8 107.8





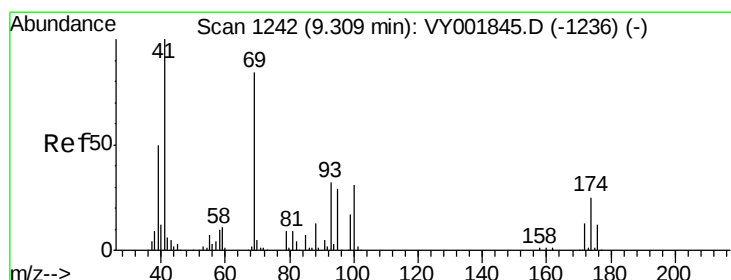
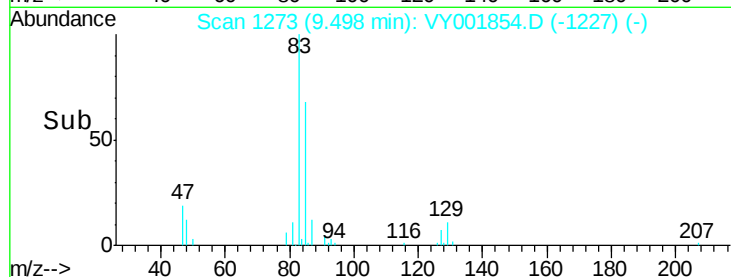
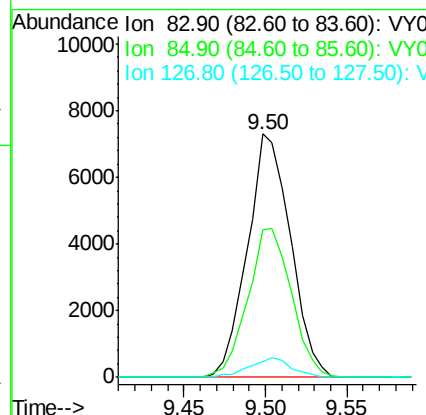
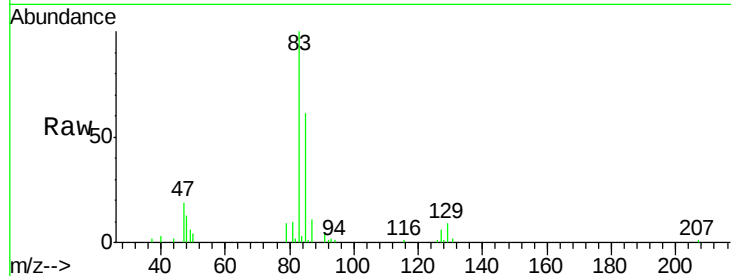
#47
Bromodichloromethane
Concen: 4.874 ug/l
RT: 9.50 min Scan# 1273
Delta R.T. -0.02 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion	83	Resp	13400
Ion Ratio	100	Lower	Upper
83	100		
85	60.8	50.6	76.0
127	6.4	6.2	9.4

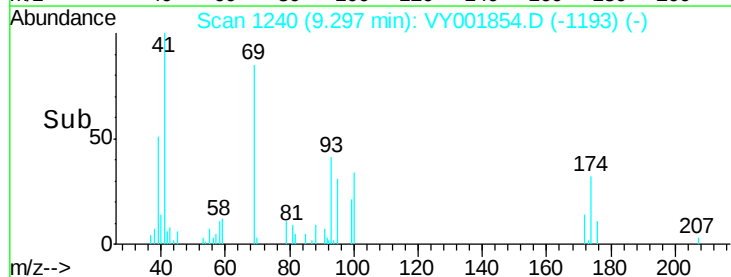
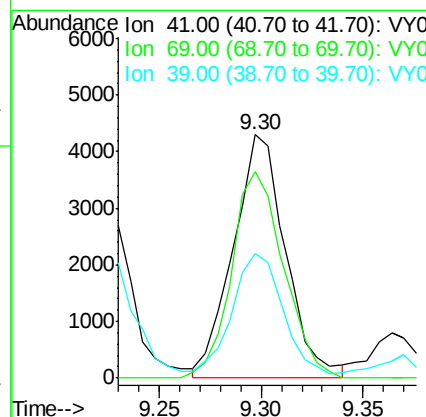
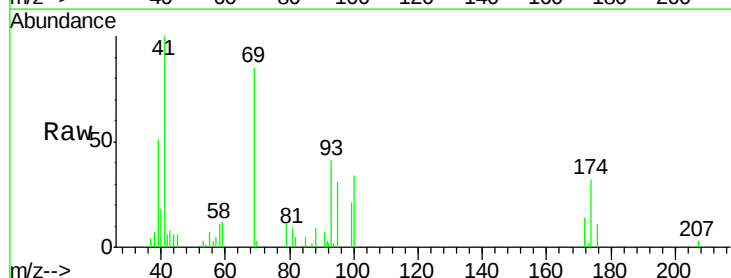
Manual Integrations
APPROVED

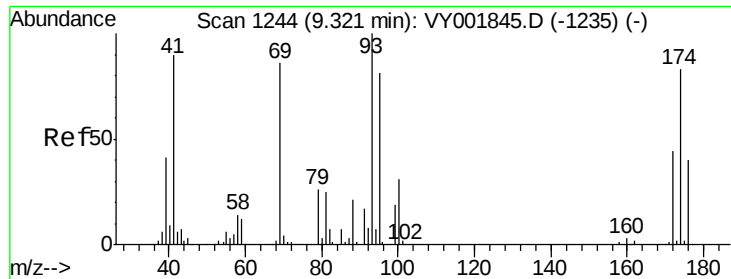
MMDadoda
3/5/2020 1:37:27 PM



#48
Methyl methacrylate
Concen: 5.110 ug/l
RT: 9.30 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion	41	Resp	7680
Ion Ratio	100	Lower	Upper
41	100		
69	83.7	69.0	103.6
39	52.0	39.1	58.7





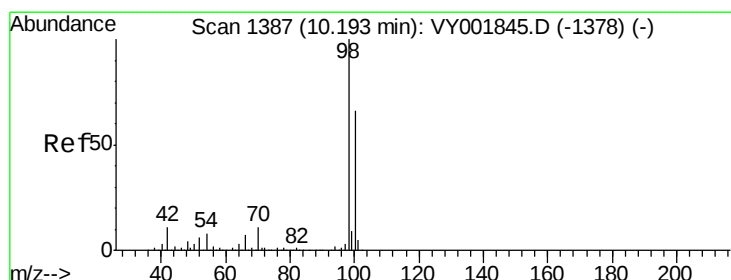
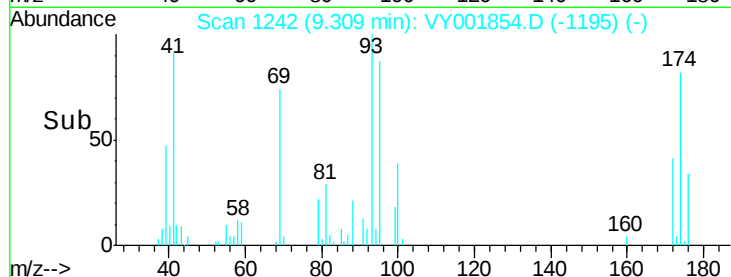
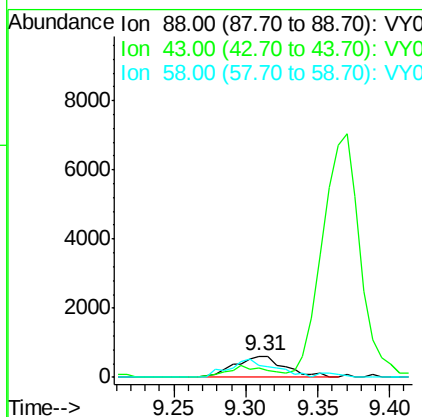
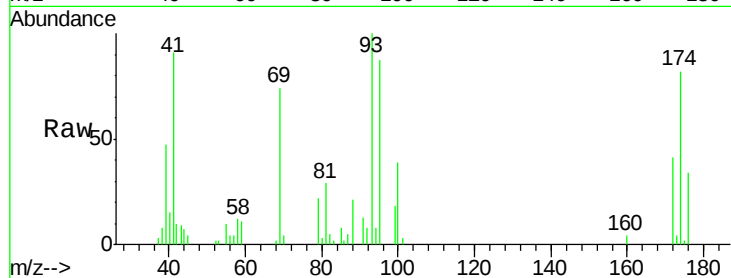
#49
1,4-Dioxane
Concen: 92.629 ug/l
RT: 9.31 min Scan# 1242
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
88	100		
43	45.1	25.0	37.6#
58	73.7	58.9	88.3

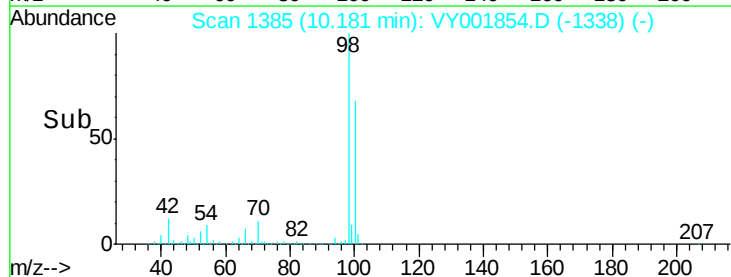
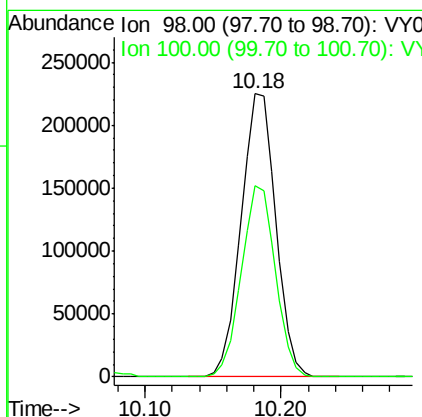
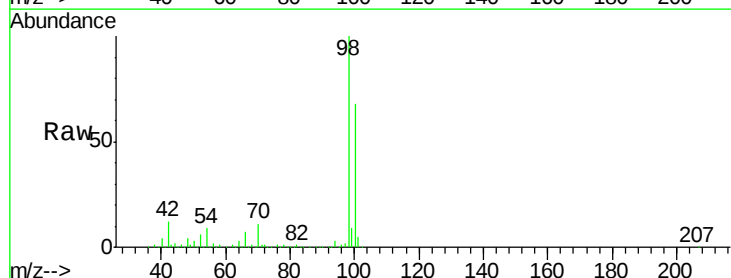
Manual Integrations
APPROVED

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3/5/2020 1:37:27 PM



#50
Toluene-d8
Concen: 54.472 ug/l
RT: 10.18 min Scan# 1385
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.0	79.4





#51

4-Methyl-2-Pentanone

Concen: 24.319 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion: 43 Resp: 42424

Ion Ratio Lower Upper

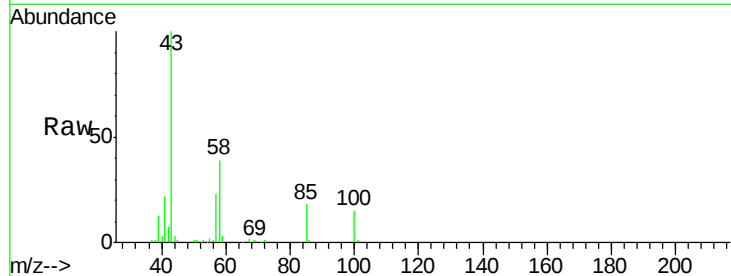
43 100

58 38.8 32.0 48.0

Manual Integrations
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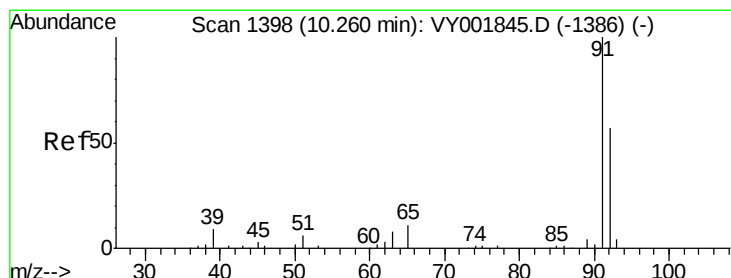
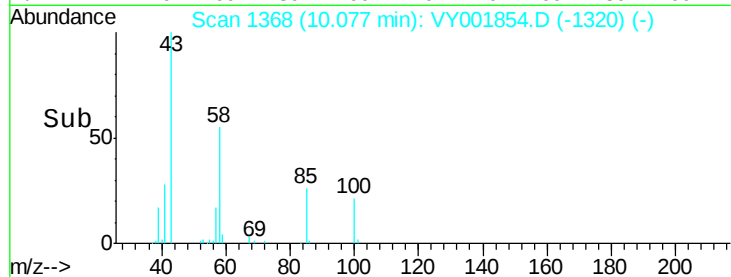
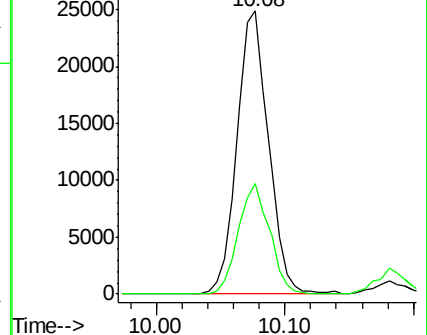
MMDadoda

3/5/2020 1:37:27 PM



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#52

Toluene

Concen: 5.053 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. -0.01 min

Lab File: VY001854.D

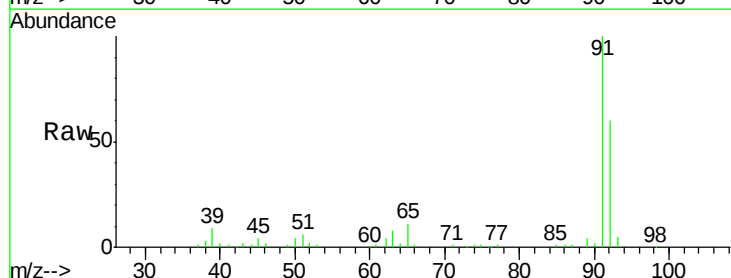
Acq: 04 Mar 2020 15:28

Tgt Ion: 92 Resp: 28002

Ion Ratio Lower Upper

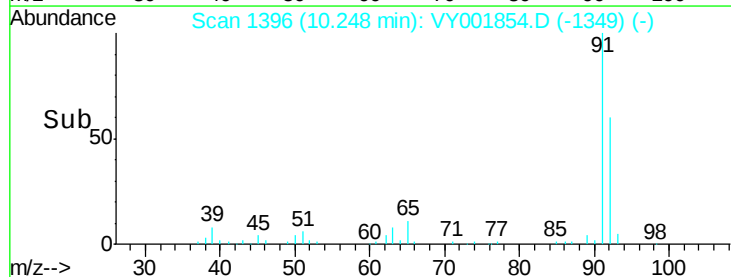
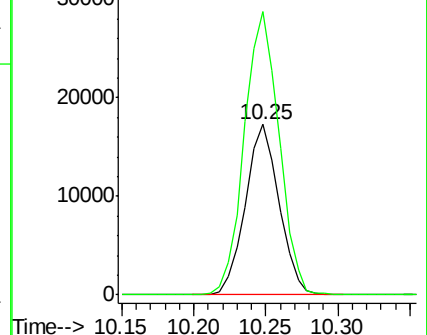
92 100

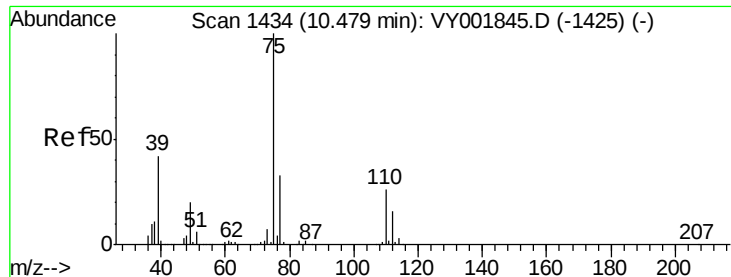
91 171.0 138.6 208.0



Abundance Ion 92.00 (91.70 to 92.70): VY0

Ion 91.00 (90.70 to 91.70): VY0





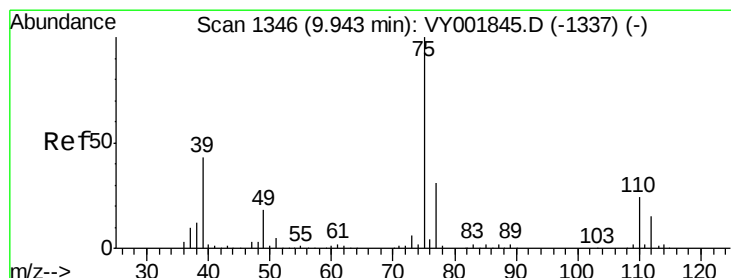
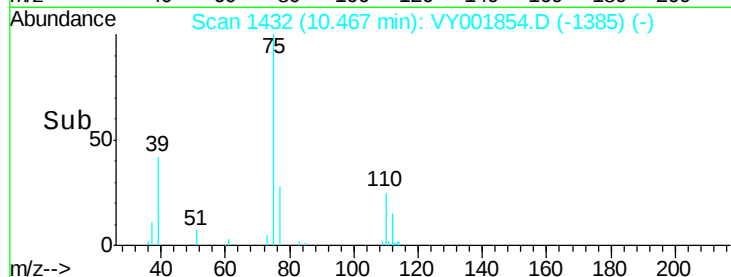
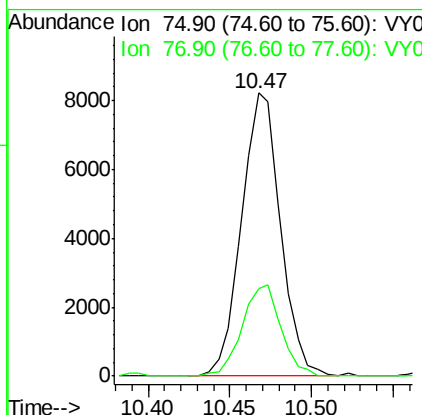
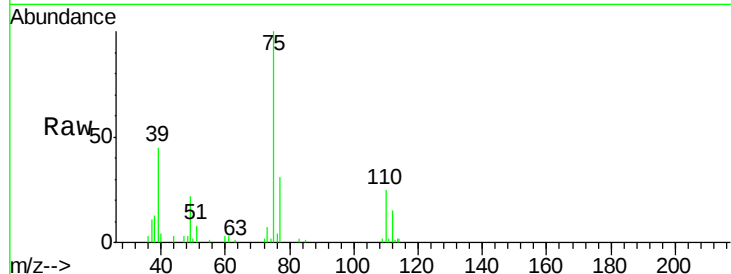
#53
t-1,3-Dichloropropene
Concen: 4.563 ug/l
RT: 10.47 min Scan# 1432
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion: 75 Resp: 13667
Ion Ratio Lower Upper
75 100
77 30.8 26.3 39.5

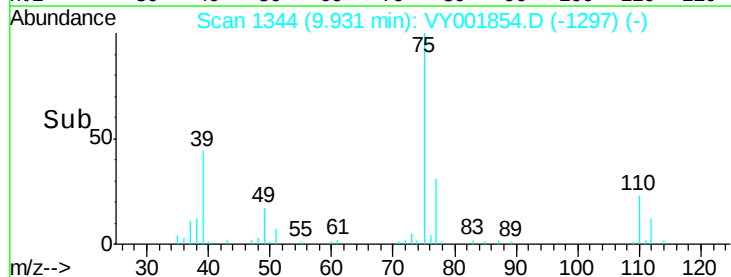
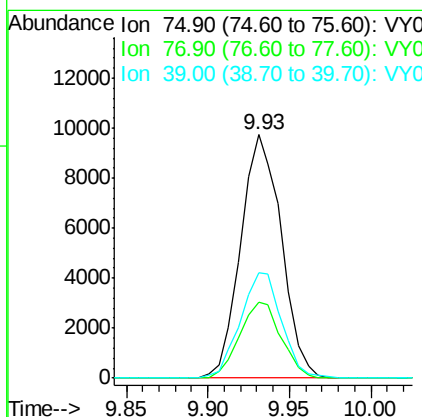
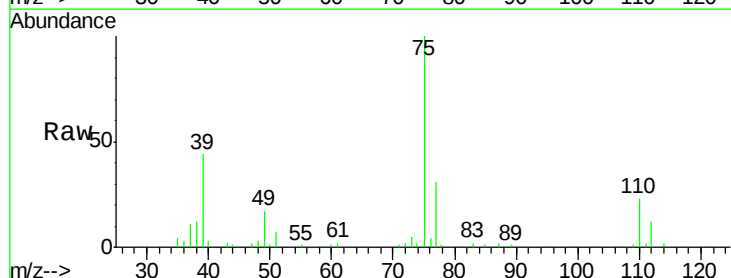
Manual Integrations
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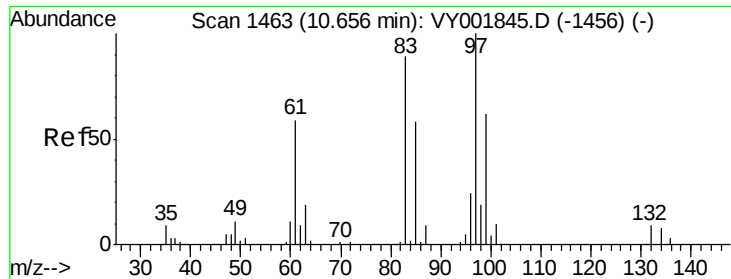
MMDadoda
3/5/2020 1:37:27 PM



#54
cis-1,3-Dichloropropene
Concen: 4.718 ug/l
RT: 9.93 min Scan# 1344
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion: 75 Resp: 16823
Ion Ratio Lower Upper
75 100
77 31.4 25.1 37.7
39 43.5 34.7 52.1





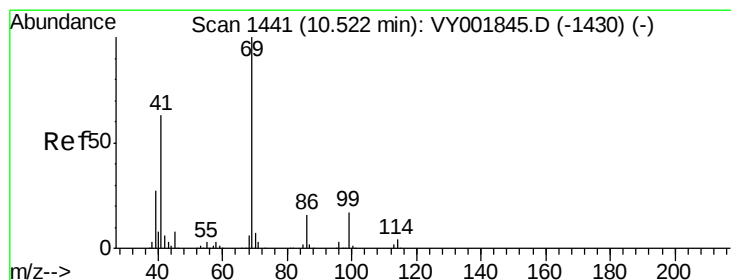
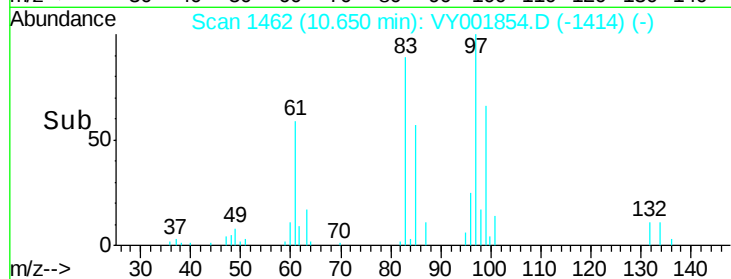
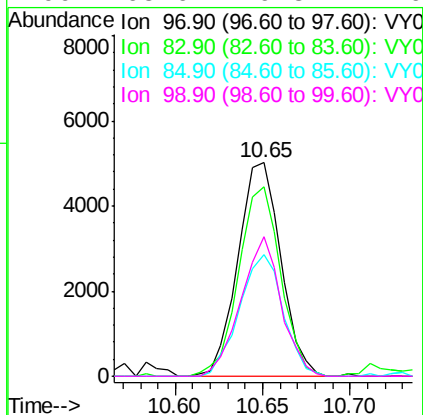
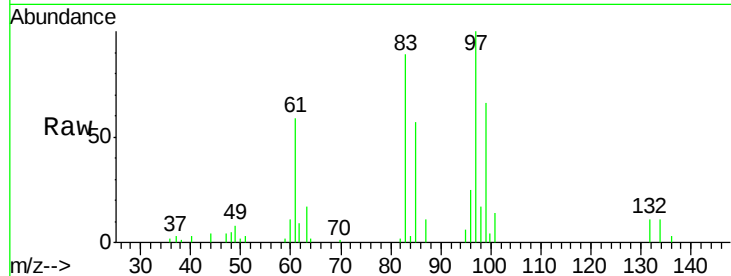
#55
 1,1,2-Trichloroethane
 Concen: 4.949 ug/l
 RT: 10.65 min Scan# 1462
 Delta R.T. -0.01 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOQ-SOIL-02-QT1-2020

Tot Ion:	97	Resp:	8559
Ion	Ratio	Lower	Upper
97	100		
83	88.6	71.6	107.4
85	56.7	46.6	69.8
99	65.6	49.8	74.6

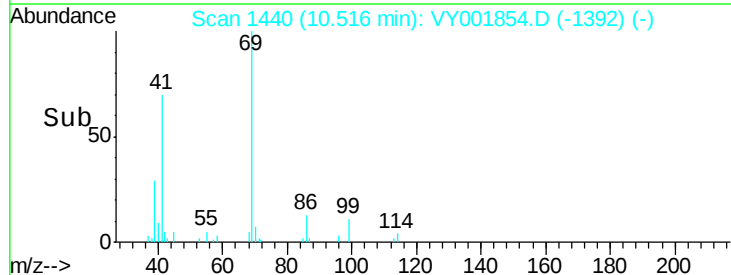
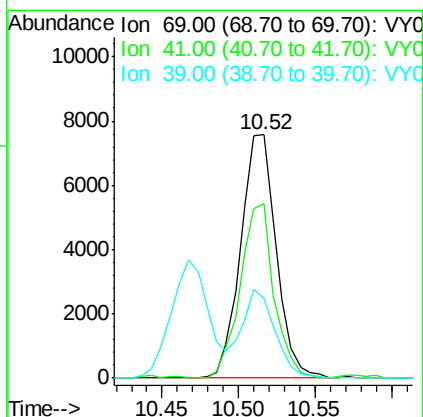
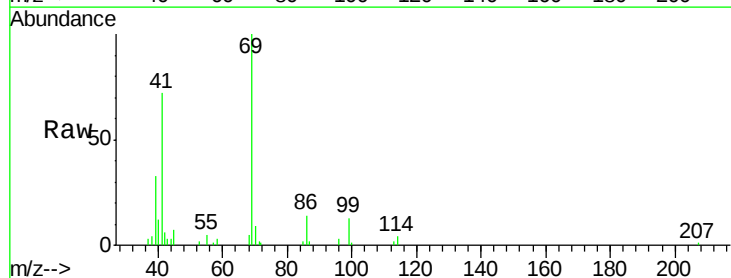
Manual Integrations
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 3/5/2020 1:37:27 PM



#56
 Ethyl methacrylate
 Concen: 4.831 ug/l
 RT: 10.52 min Scan# 1440
 Delta R.T. -0.01 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Tgt Ion:	69	Resp:	12248
Ion	Ratio	Lower	Upper
69	100		
41	67.5	49.9	74.9
39	34.3	23.0	34.6





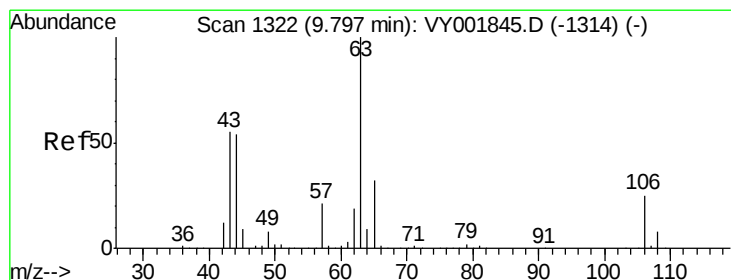
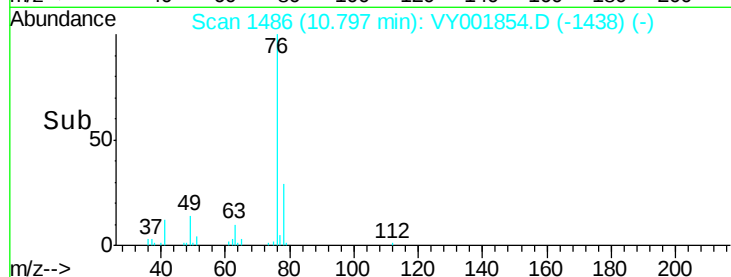
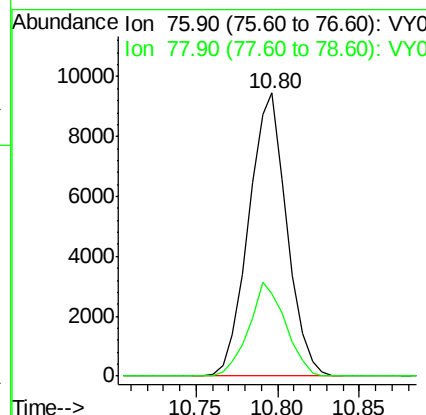
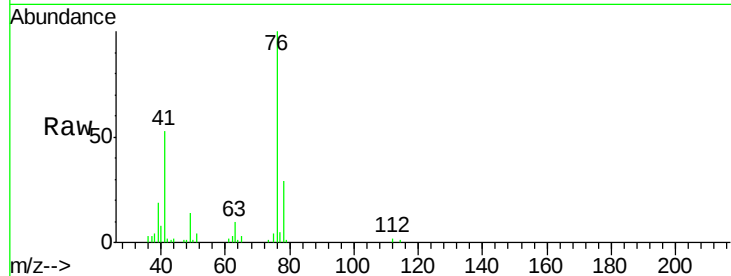
#57
 1,3-Dichloropropane
 Concen: 4.960 ug/l
 RT: 10.80 min Scan# 1486
 Delta R.T. -0.01 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.1	25.8	38.6

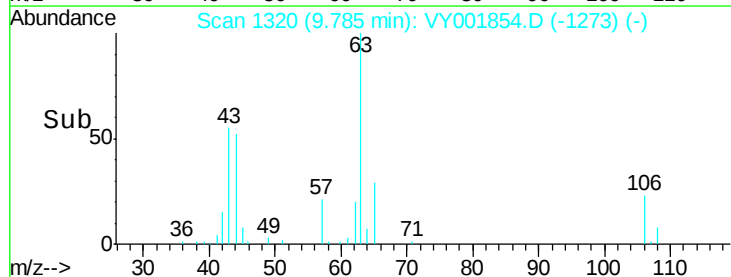
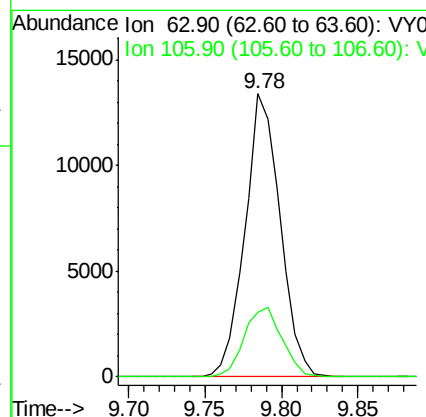
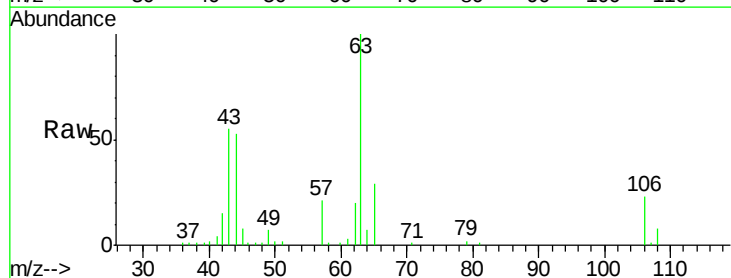
Manual Integrations
 APPROVED

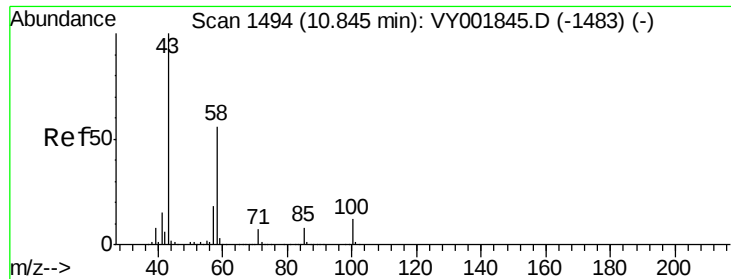
MMDadoda
 3/5/2020 1:37:27 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 21.244 ug/l
 RT: 9.78 min Scan# 1320
 Delta R.T. -0.01 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
63	100		
106	26.3	21.3	31.9





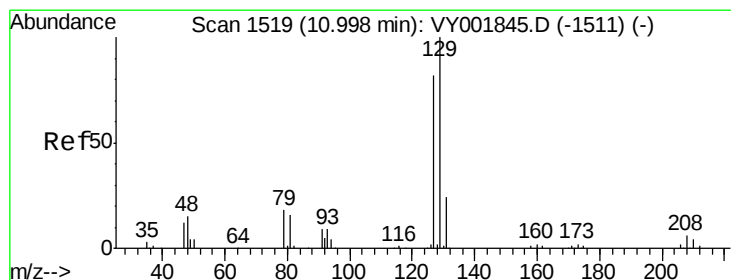
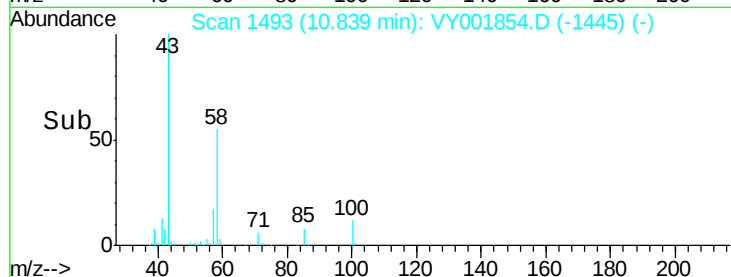
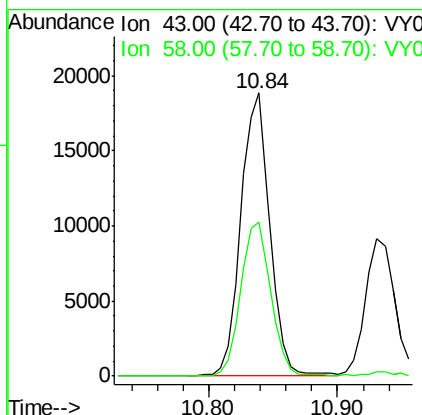
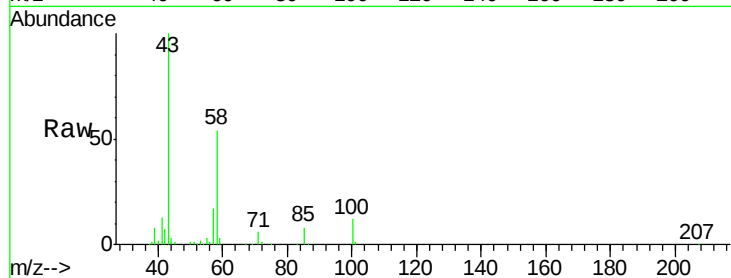
#59
2-Hexanone
Concen: 23.405 ug/l
RT: 10.84 min Scan# 1493
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion: 43 Resp: 29142
Ion Ratio Lower Upper
43 100
58 56.2 28.1 84.3

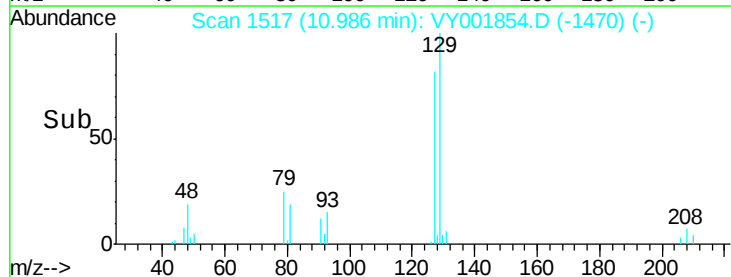
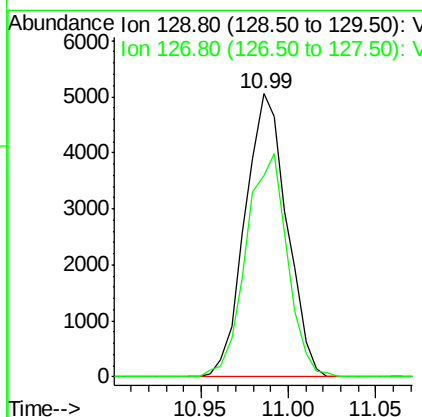
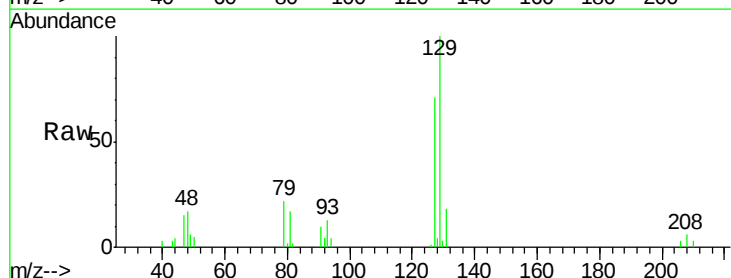
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#60
Dibromochloromethane
Concen: 4.637 ug/l
RT: 10.99 min Scan# 1517
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion: 129 Resp: 8451
Ion Ratio Lower Upper
129 100
127 77.7 39.0 117.0





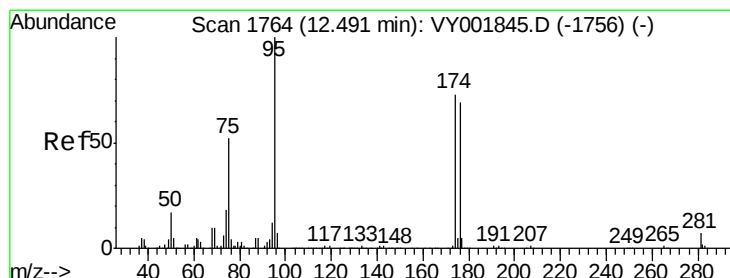
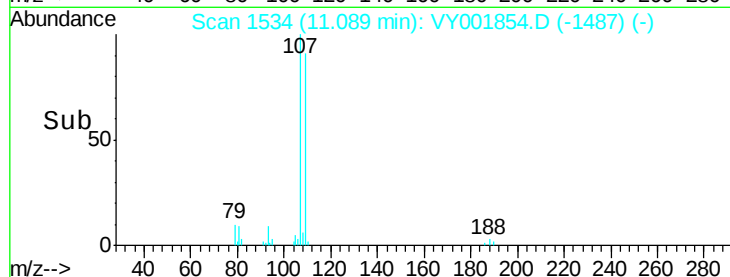
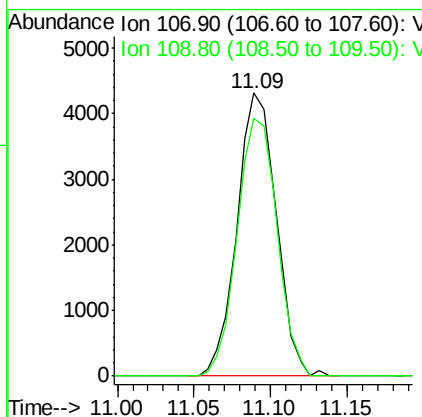
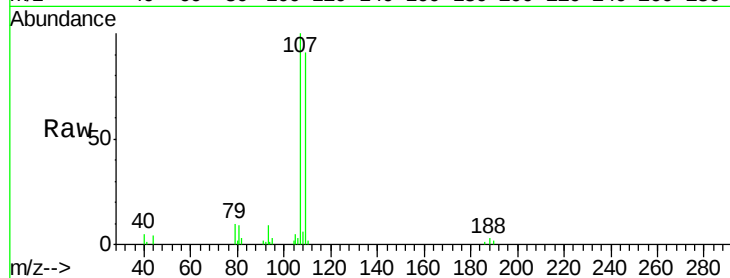
#61
 1,2-Dibromoethane
 Concen: 4.701 ug/l
 RT: 11.09 min Scan# 1534
 Delta R.T. -0.01 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.7	75.4	113.0

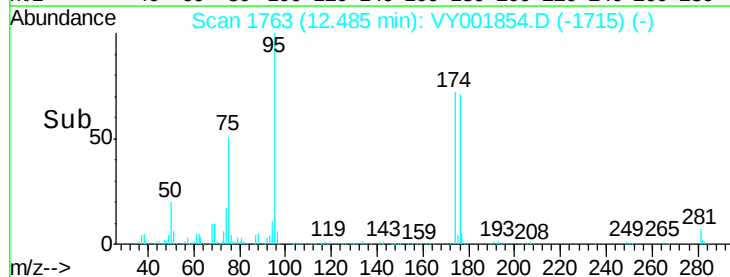
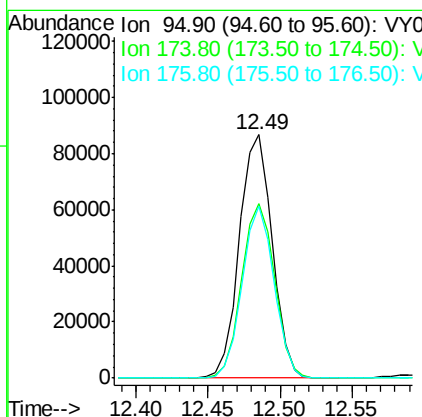
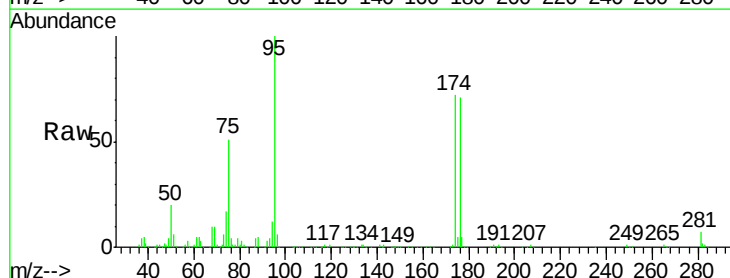
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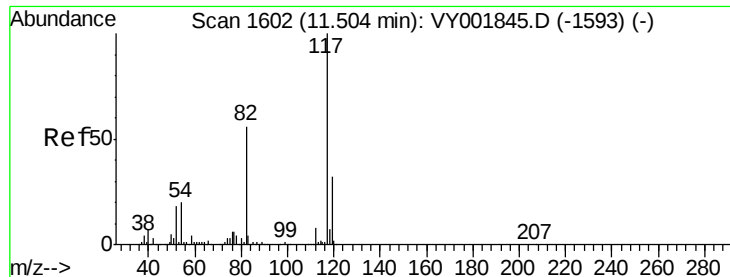
MMDadoda
 3/5/2020 1:37:27 PM



#62
 4-Bromofluorobenzene
 Concen: 53.507 ug/l
 RT: 12.49 min Scan# 1763
 Delta R.T. -0.01 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
95	100		
174	71.8	0.0	145.0
176	68.6	0.0	137.4





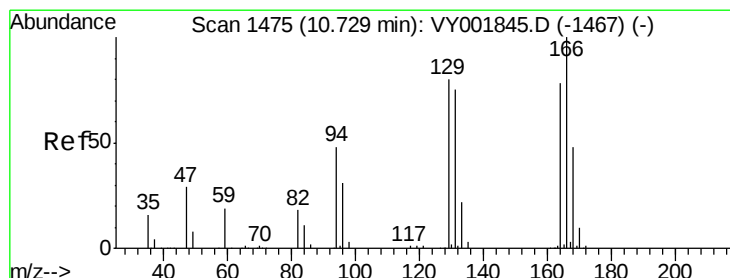
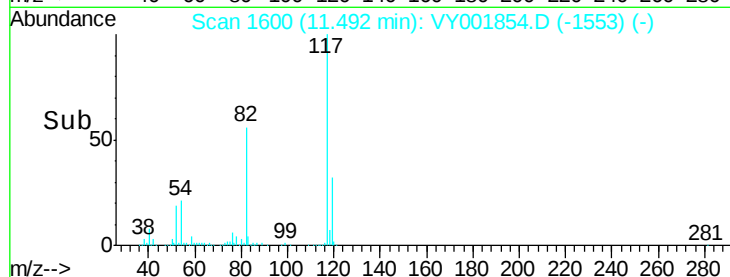
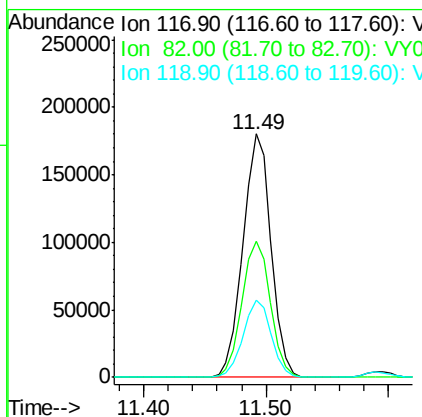
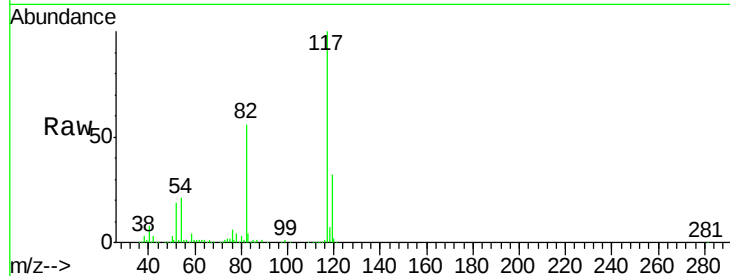
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.49 min Scan# 1600
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	286344		
82	56.1		44.5	66.7
119	31.8		25.7	38.5

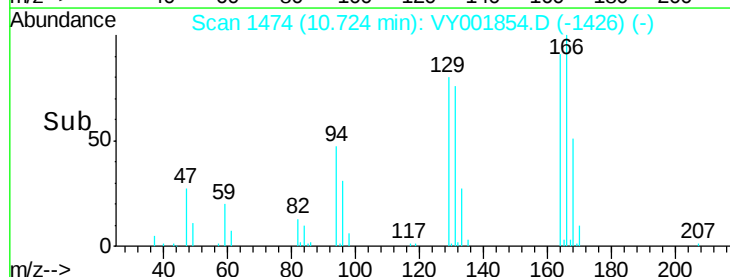
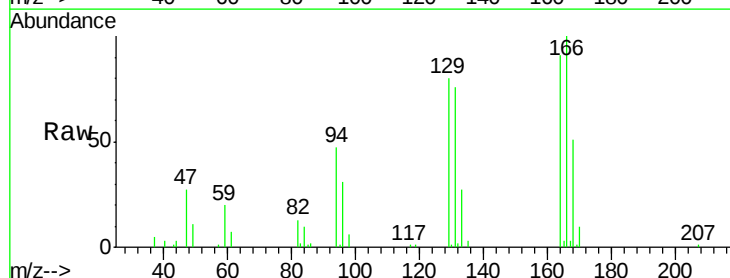
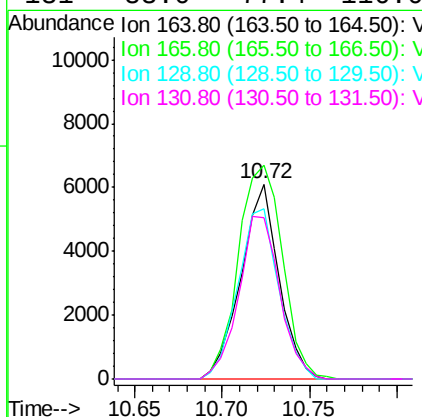
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#64
Tetrachloroethene
Concen: 5.115 ug/l
RT: 10.72 min Scan# 1474
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	9185		
166	109.8		102.6	154.0
129	87.6		82.3	123.5
131	83.0		77.4	116.0





#65

Chlorobenzene

Concen: 4.975 ug/l

RT: 11.52 min Scan# 1604

Delta R.T. -0.01 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion:112 Resp: 28387

Ion Ratio Lower Upper

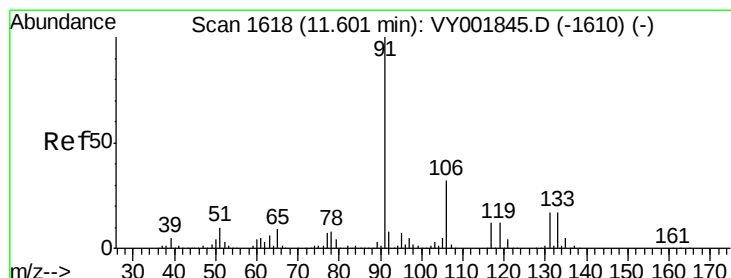
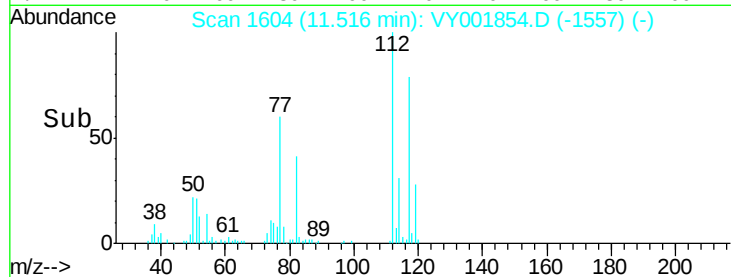
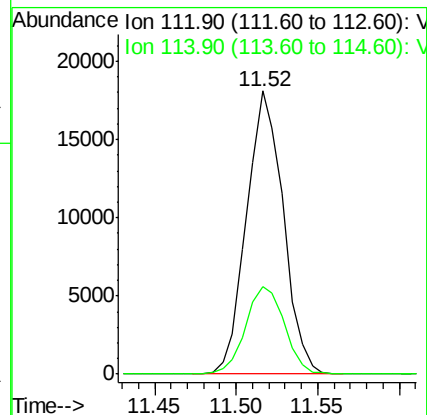
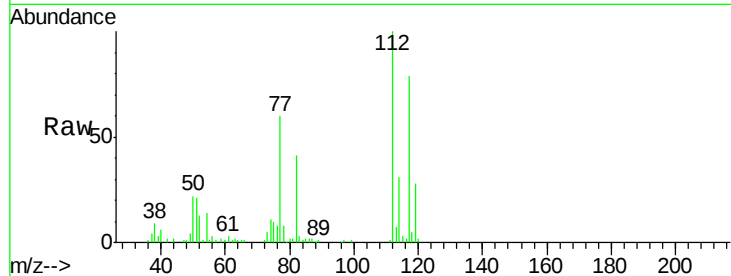
112 100

114 31.1 25.9 38.9

Manual Integrations
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#66

1,1,1,2-Tetrachloroethane

Concen: 4.782 ug/l

RT: 11.59 min Scan# 1616

Delta R.T. -0.01 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

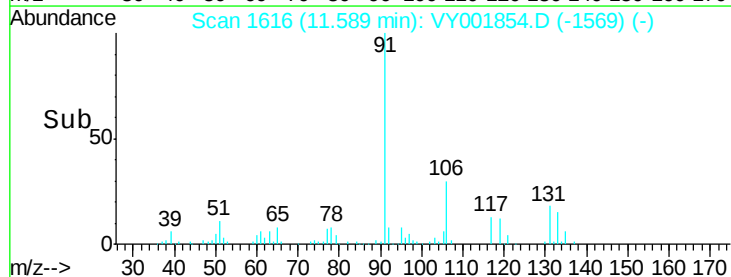
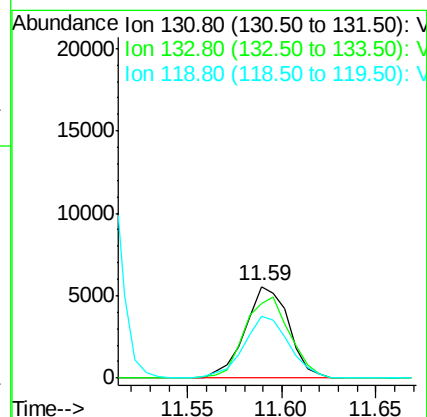
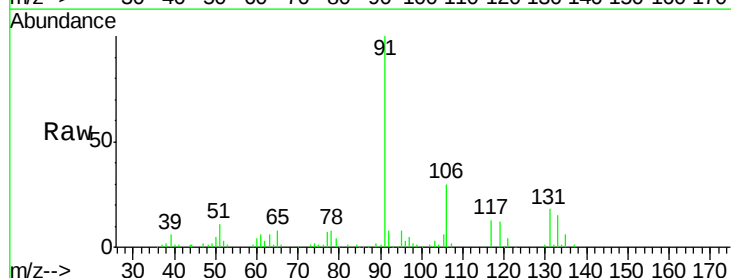
Tgt Ion:131 Resp: 8948

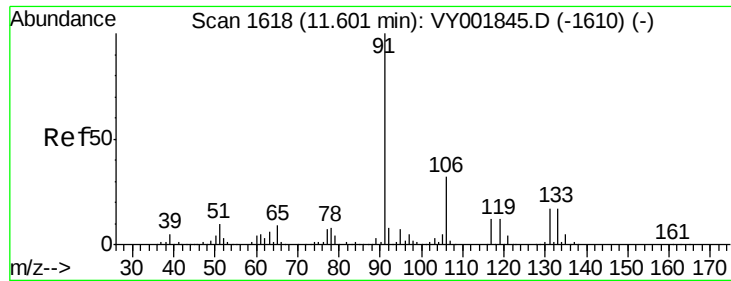
Ion Ratio Lower Upper

131 100

133 91.4 47.1 141.3

119 69.9 34.5 103.6





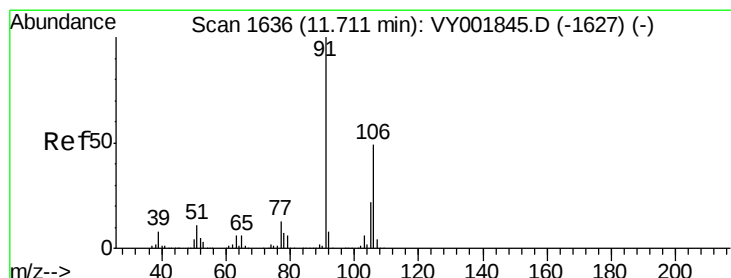
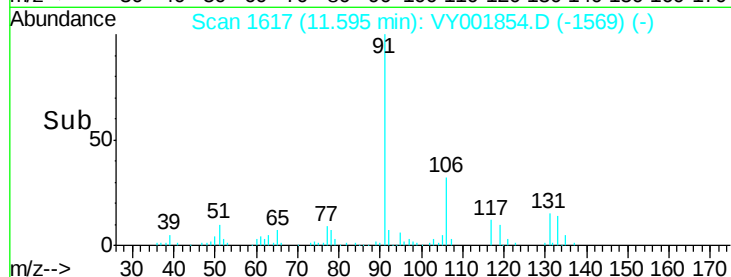
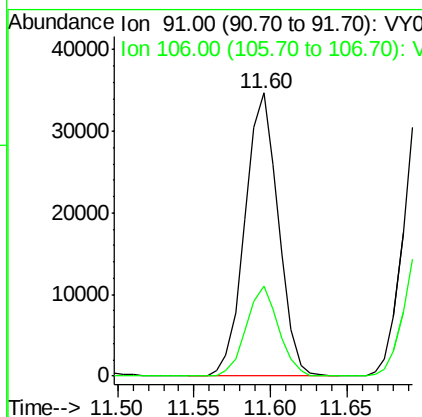
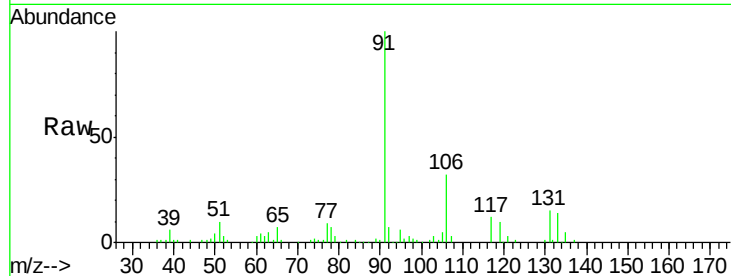
#67
Ethyl Benzene
Concen: 4.936 ug/l
RT: 11.60 min Scan# 1617
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion	91	Resp	52519
Ion Ratio	100	Lower	Upper
106	31.9	25.4	38.2

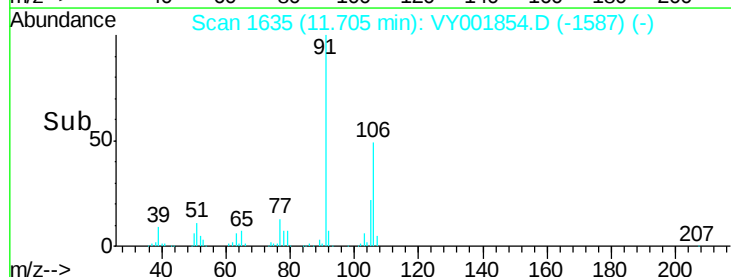
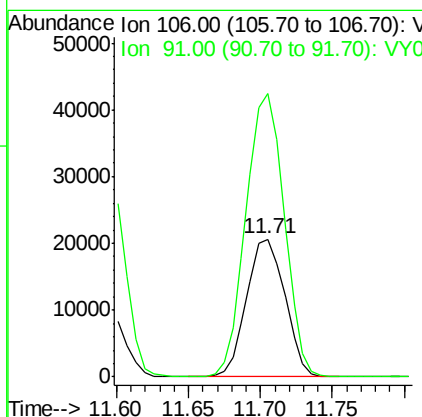
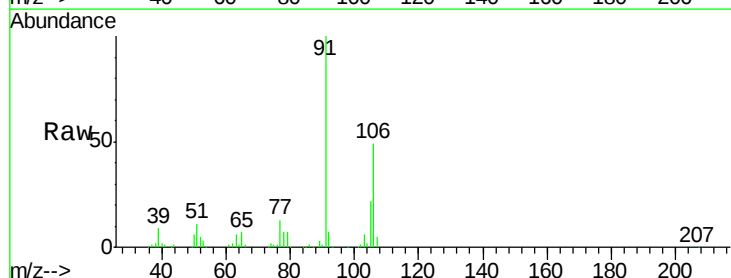
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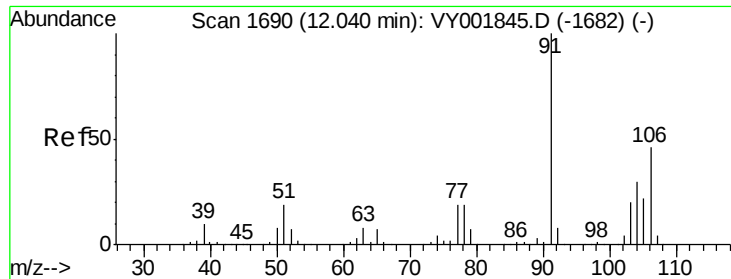
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#68
m/p-Xylenes
Concen: 9.713 ug/l
RT: 11.71 min Scan# 1635
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion	106	Resp	38209
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
91	204.7	161.3	241.9





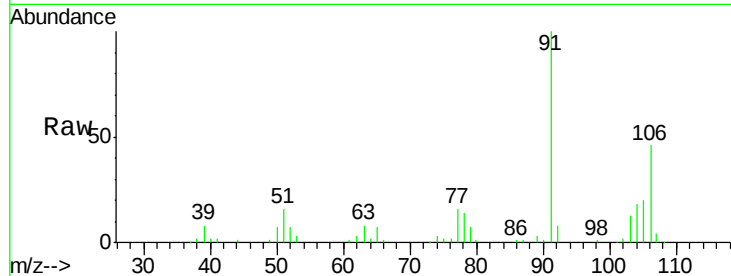
#69
o-Xylene
Concen: 4.868 ug/l
RT: 12.03 min Scan# 1688
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

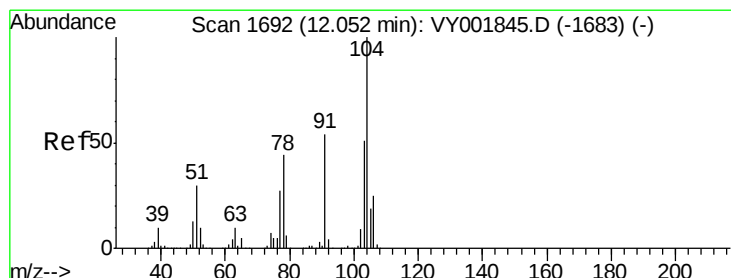
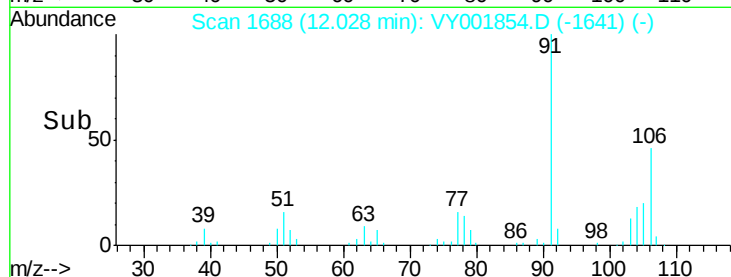
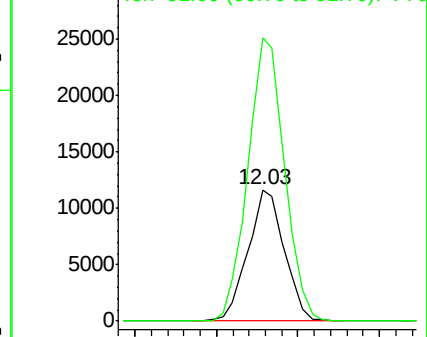
Tot Ion:106 Resp: 18049
Ion Ratio Lower Upper
106 100
91 217.5 106.8 320.4

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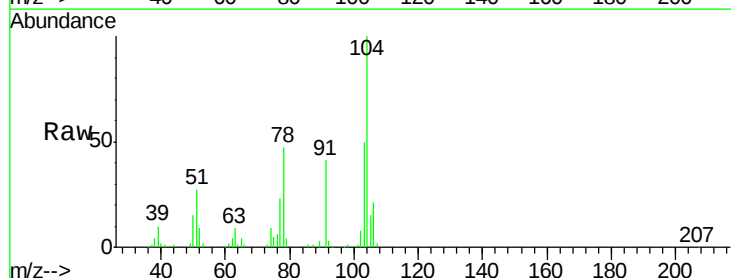


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VY0

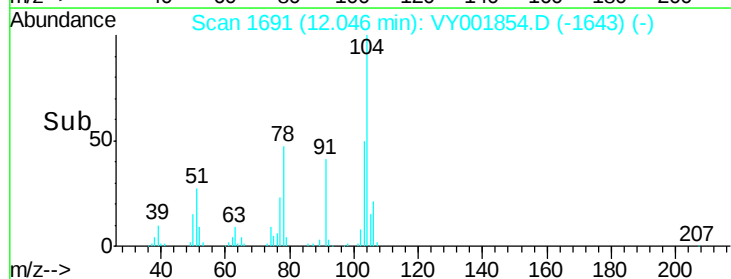
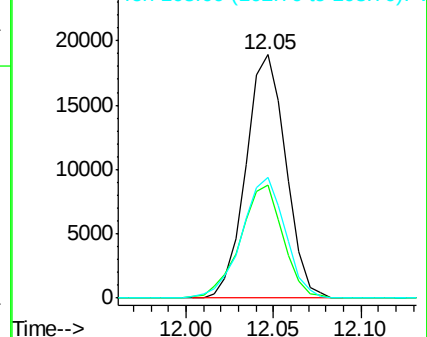


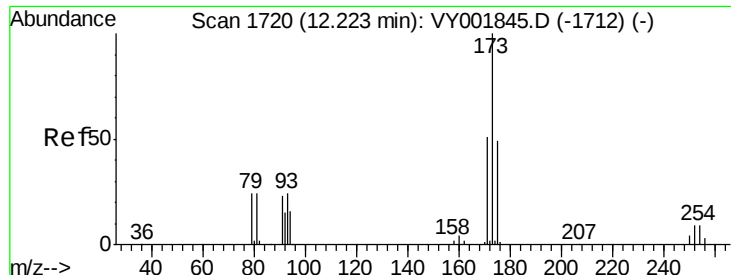
#70
Styrene
Concen: 4.741 ug/l
RT: 12.05 min Scan# 1691
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion:104 Resp: 30106
Ion Ratio Lower Upper
104 100
78 49.7 38.5 57.7
103 54.0 42.9 64.3



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VY0
Ion 103.00 (102.70 to 103.70): V





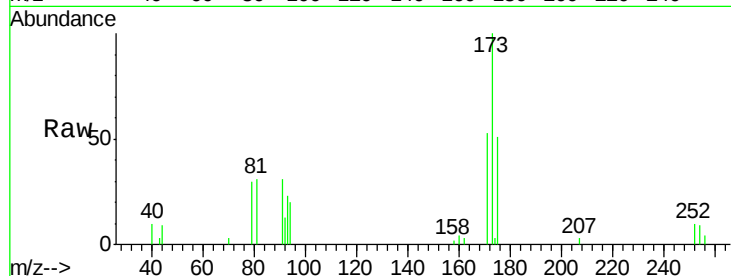
#71
Bromoform
Concen: 4.260 ug/l
RT: 12.21 min Scan# 1718
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

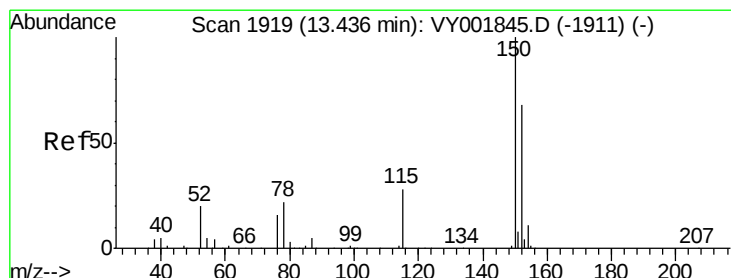
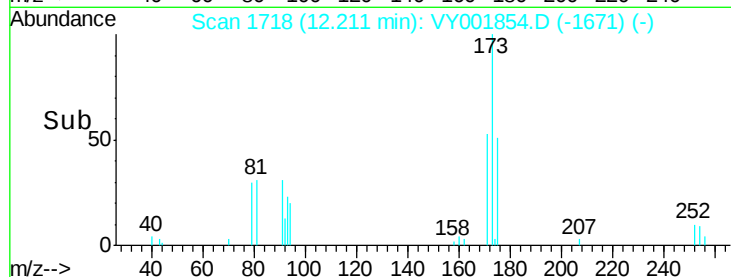
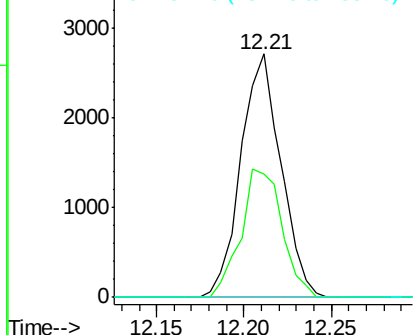
Tot Ion	Ratio	Lower	Upper
173	100		
175	54.0	24.3	72.8
254	0.0	0.0	0.0

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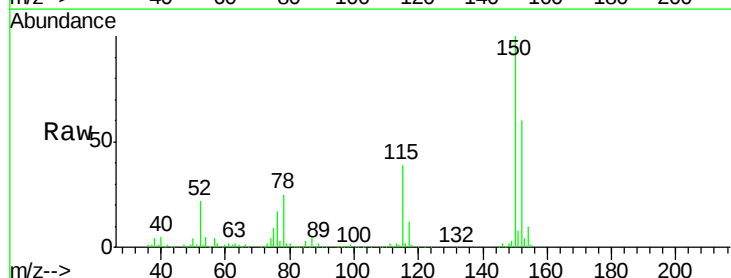


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

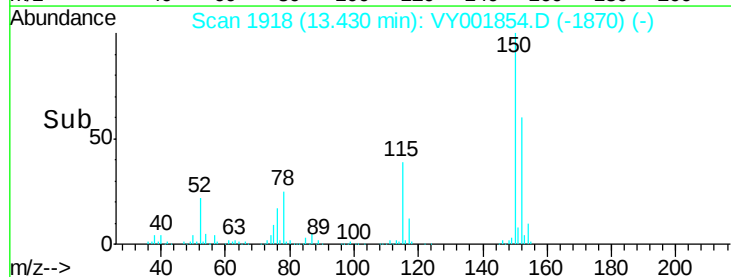
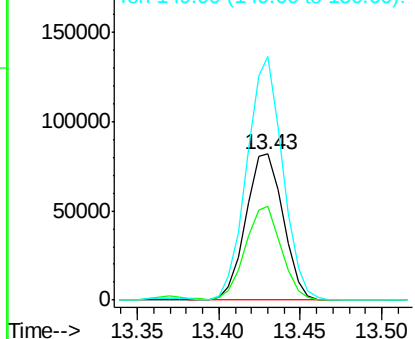


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.43 min Scan# 1918
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
152	100		
115	62.0	29.9	89.7
150	160.2	0.0	340.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





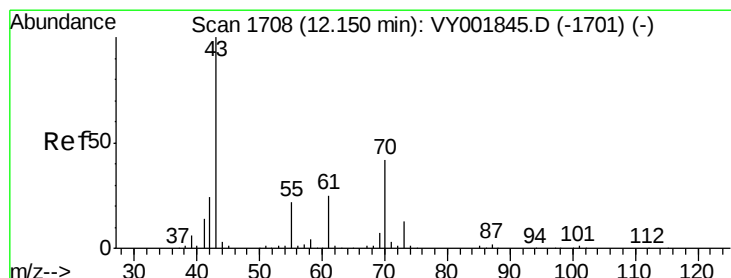
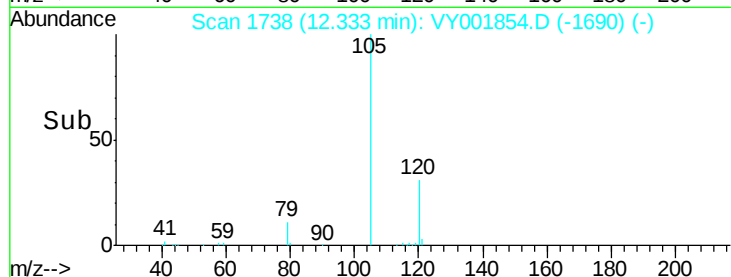
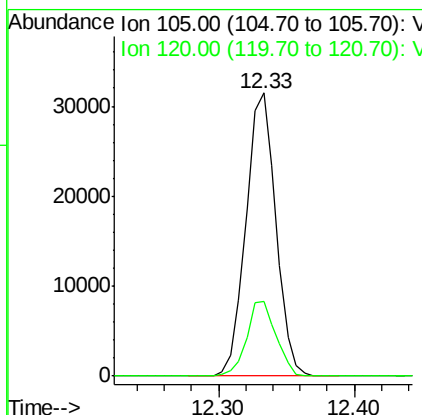
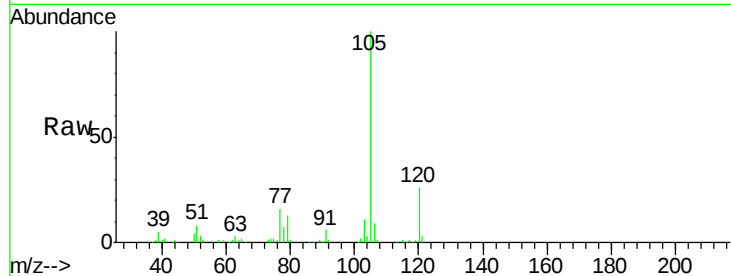
#73
Isopropylbenzene
Concen: 4.867 ug/l
RT: 12.33 min Scan# 1738
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
105	100		
120	25.8	13.1	39.3

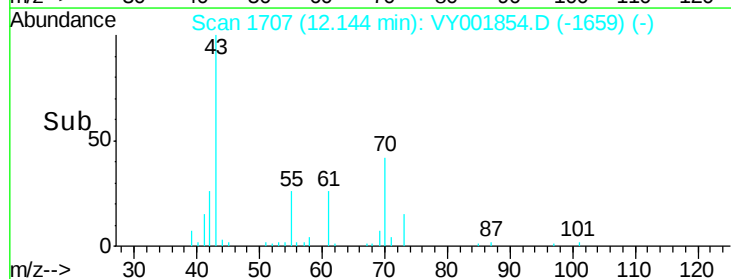
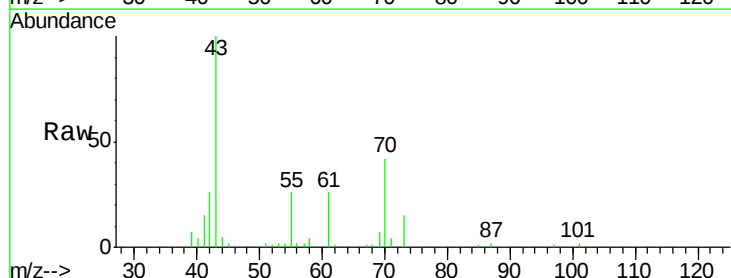
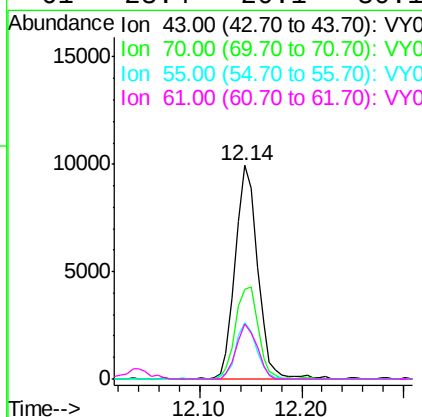
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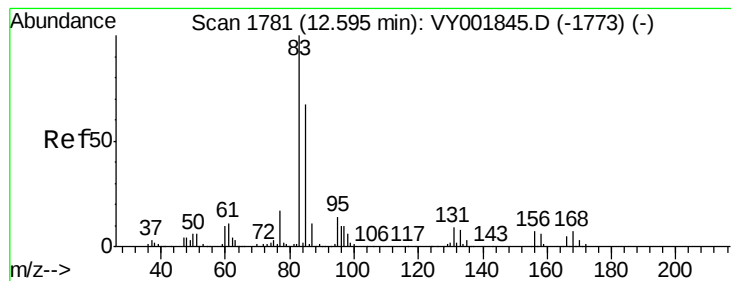
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#74
N-ethyl acetate
Concen: 4.950 ug/l
RT: 12.14 min Scan# 1707
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
43	100		
70	43.5	34.7	52.1
55	24.4	18.2	27.4
61	23.4	20.1	30.1





#75

1,1,2,2-Tetrachloroethane

Concen: 4.801 ug/l

RT: 12.58 min Scan# 1779

Delta R.T. -0.01 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Instrument :

MSVOA_Y

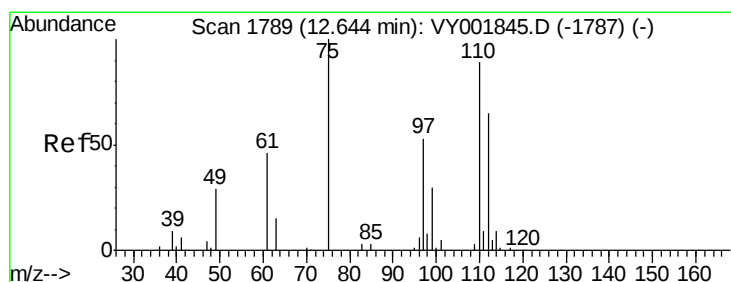
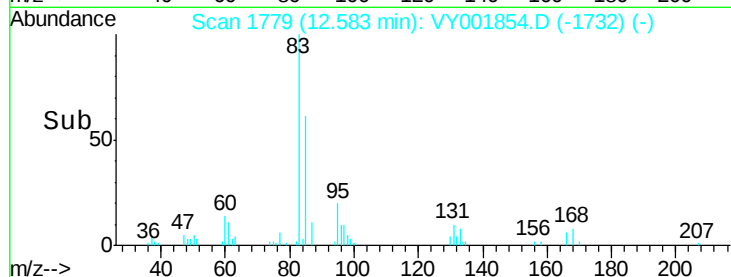
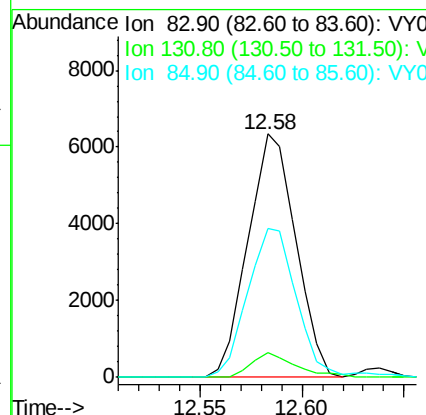
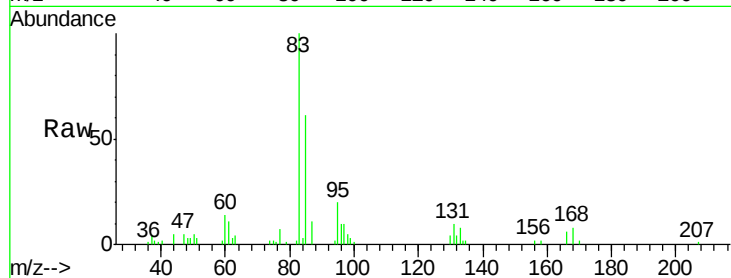
ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion:	83	Resp:	10331
Ion Ratio	Lower	Upper	
83	100		
131	9.3	4.6	13.8
85	62.3	32.1	96.3

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 4.116 ug/l m

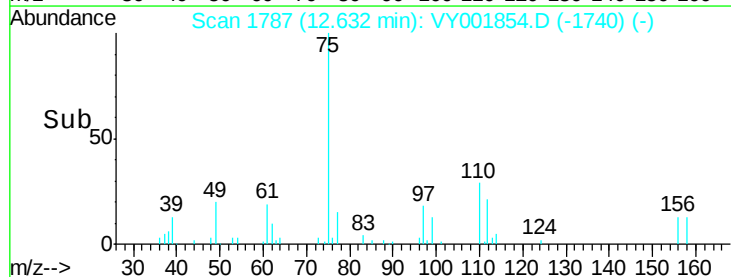
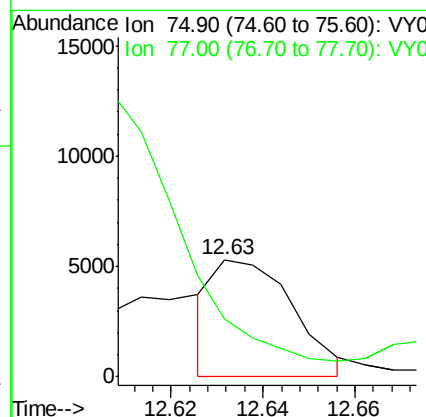
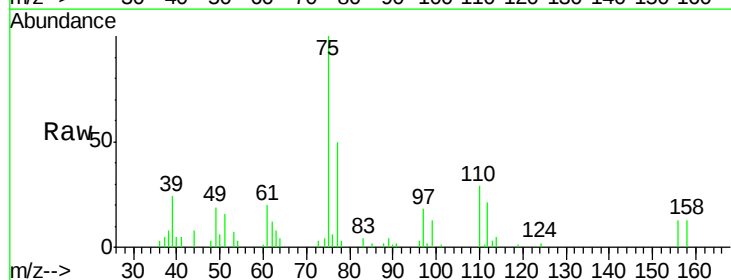
RT: 12.63 min Scan# 1787

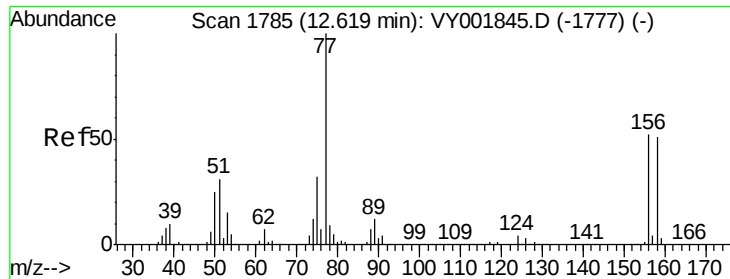
Delta R.T. -0.01 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Tgt Ion:	75	Resp:	6384
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 4.889 ug/l

RT: 12.61 min Scan# 1784

Delta R.T. -0.01 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Instrument :

MSVOA_Y

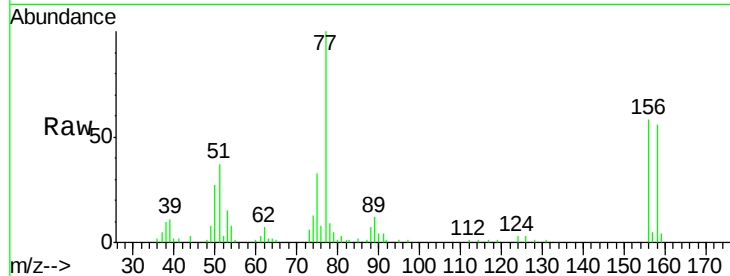
ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100				
77	219.7	109.0	327.0		
158	95.4	48.9	146.8		

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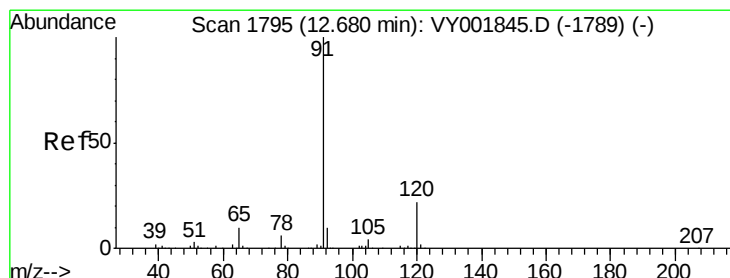
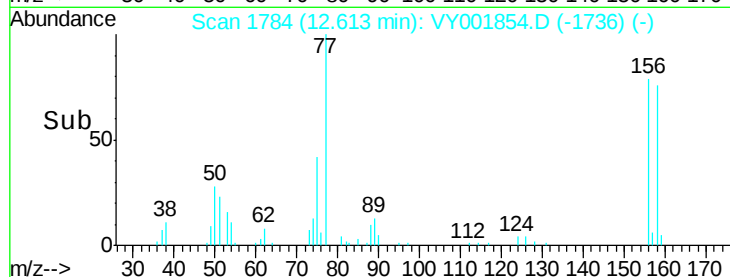
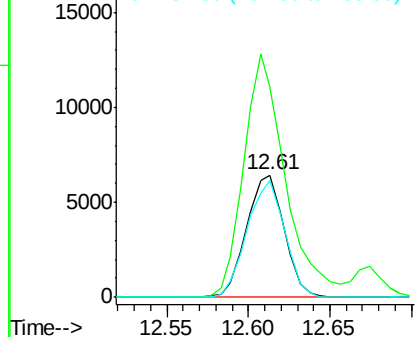
MMDadoda
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.985 ug/l

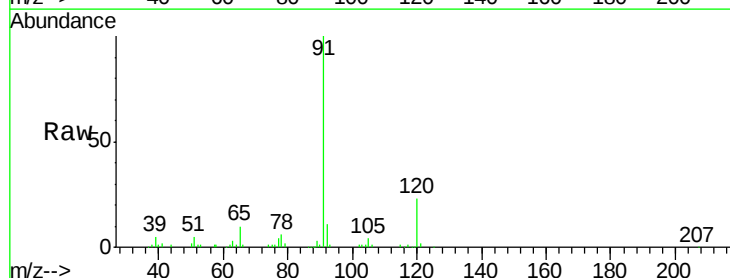
RT: 12.67 min Scan# 1794

Delta R.T. -0.01 min

Lab File: VY001854.D

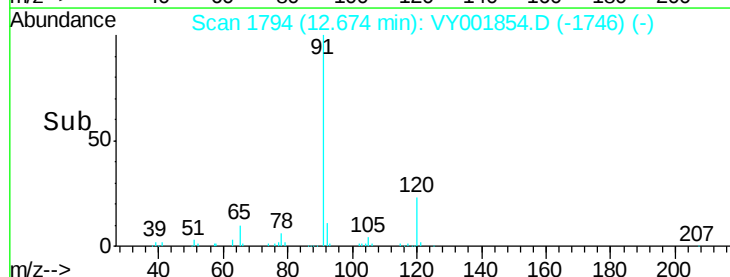
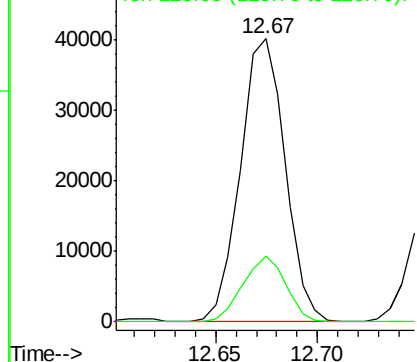
Acq: 04 Mar 2020 15:28

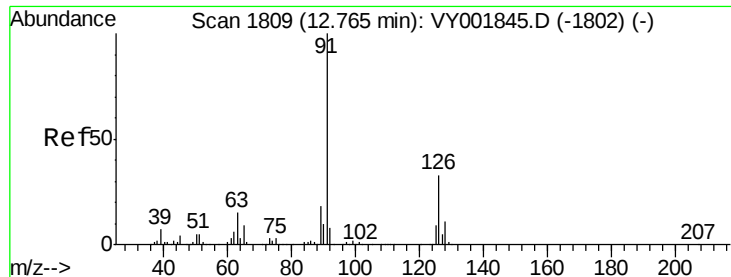
Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100				
120	22.3	11.0	33.0		



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 4.908 ug/l

RT: 12.76 min Scan# 1808

Delta R.T. -0.01 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion: 91 Resp: 33378

Ion Ratio Lower Upper

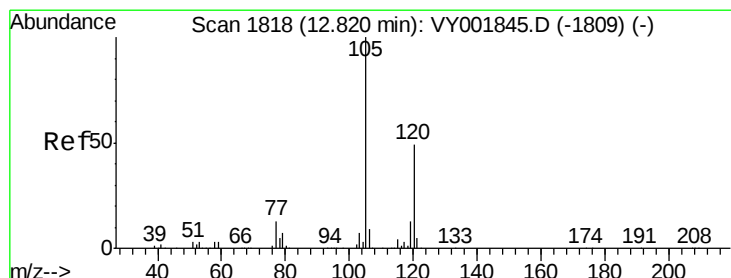
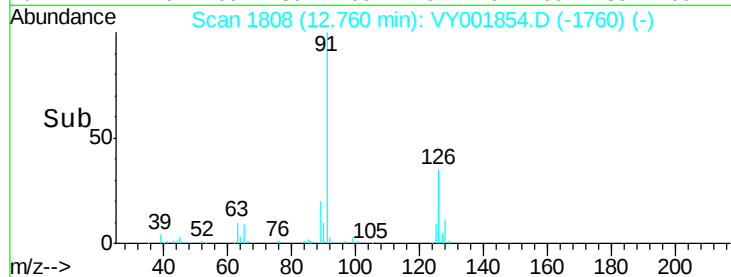
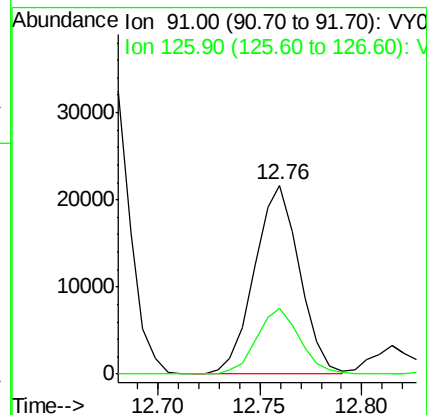
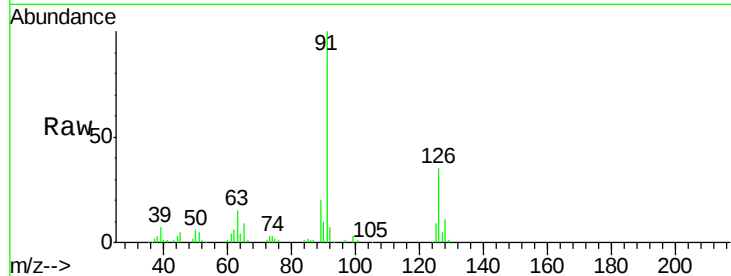
91 100

126 32.9 16.3 48.8

Manual Integrations
APPROVED

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#80

1,3,5-Trimethylbenzene

Concen: 4.961 ug/l

RT: 12.81 min Scan# 1817

Delta R.T. -0.01 min

Lab File: VY001854.D

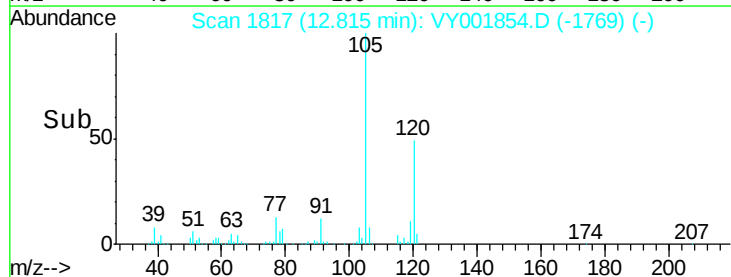
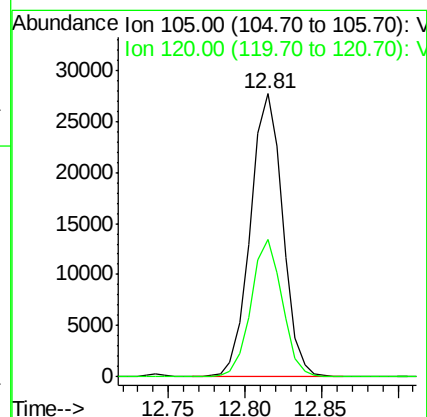
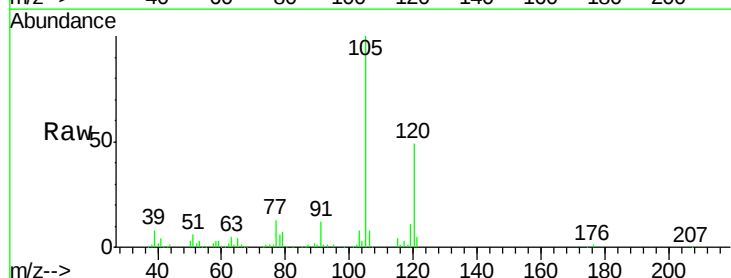
Acq: 04 Mar 2020 15:28

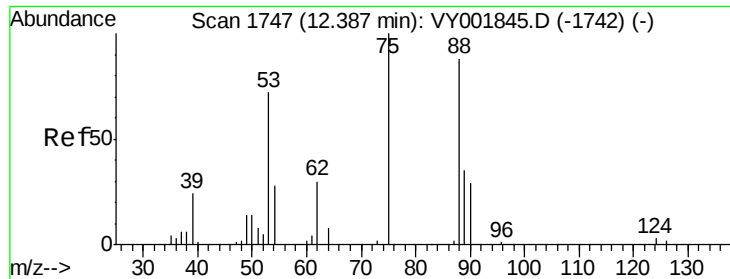
Tgt Ion: 105 Resp: 40754

Ion Ratio Lower Upper

105 100

120 47.0 24.4 73.2





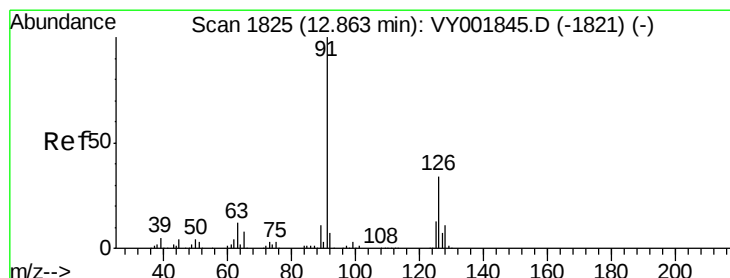
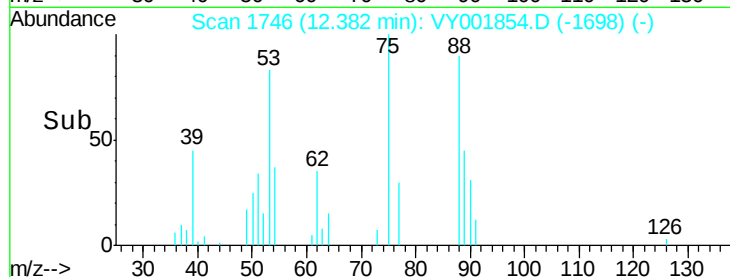
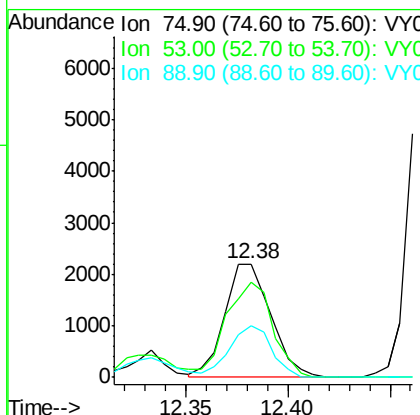
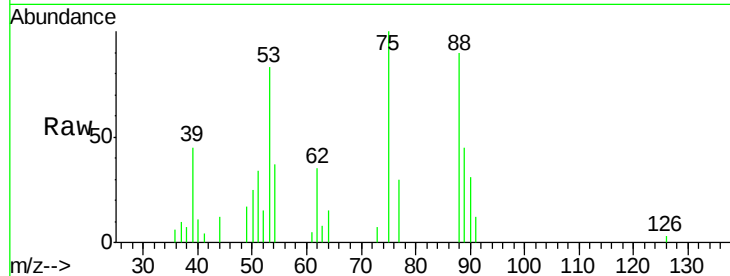
#81
trans-1,4-Dichloro-2-butene
Concen: 4.508 ug/l
RT: 12.38 min Scan# 1746
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
75	100		
53	83.3	65.4	98.0
89	40.8	36.0	54.0

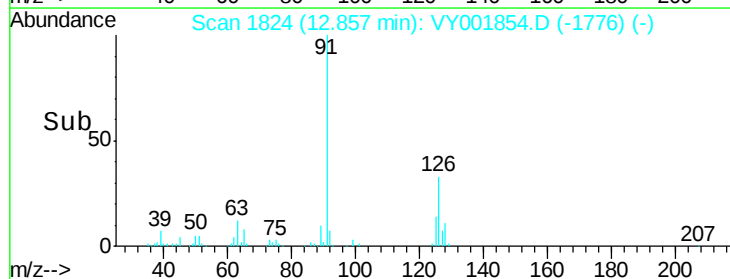
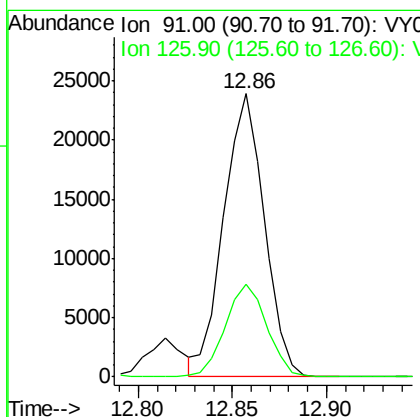
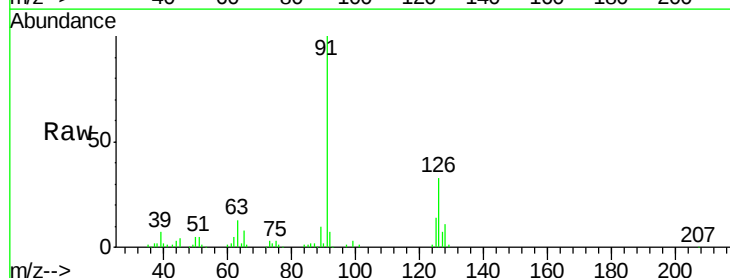
Manual Integrations
APPROVED

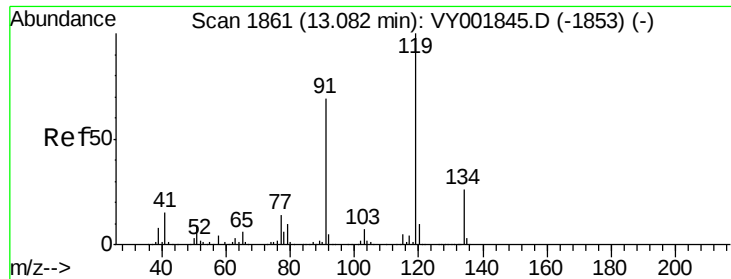
MMDadoda
3/5/2020 1:37:27 PM



#82
4-Chlorotoluene
Concen: 5.037 ug/l
RT: 12.86 min Scan# 1824
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.5	16.4	49.2





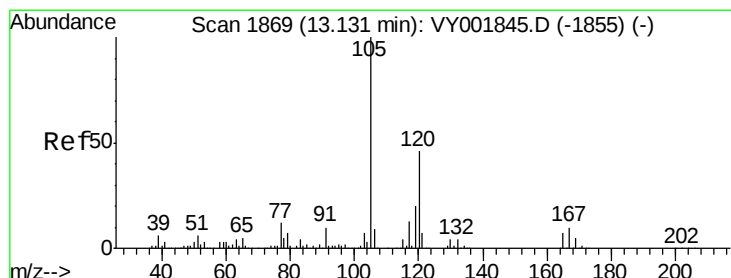
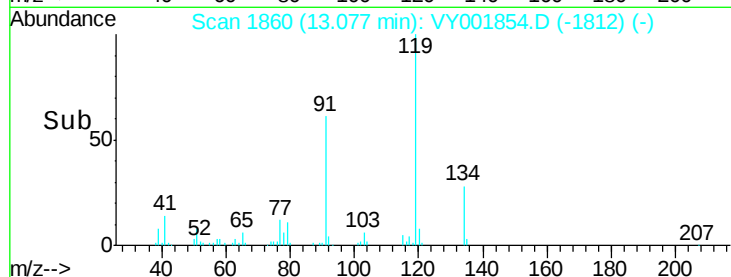
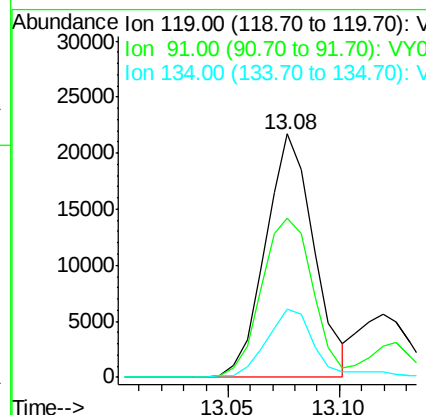
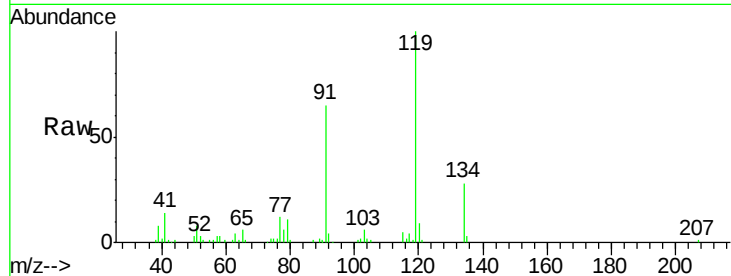
#83
tert-Butylbenzene
Concen: 4.811 ug/l
RT: 13.08 min Scan# 1860
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
119	100		
91	68.9	34.0	101.8
134	28.6	13.5	40.4

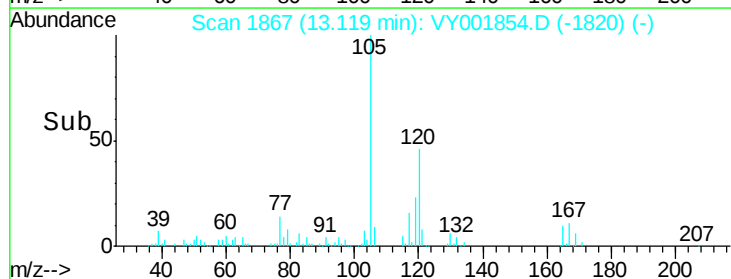
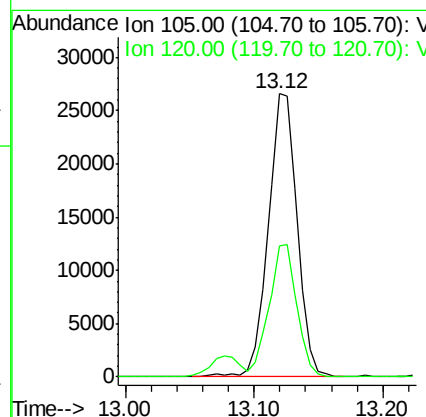
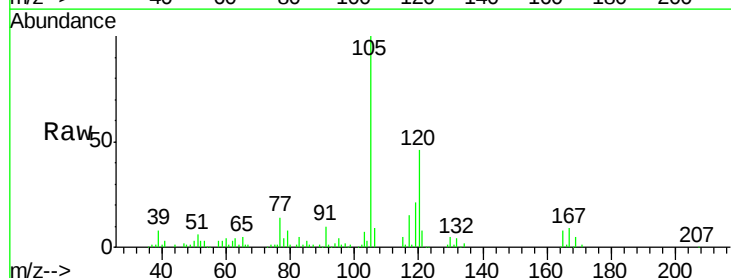
Manual Integrations
APPROVED

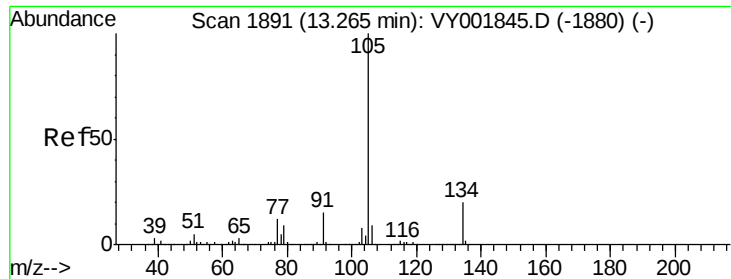
MMDadoda
3/5/2020 1:37:27 PM



#84
1,2,4-Trimethylbenzene
Concen: 5.066 ug/l
RT: 13.12 min Scan# 1867
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.0	22.6	67.7





#85

sec-Butylbenzene

Concen: 4.909 ug/l

RT: 13.25 min Scan# 1889

Delta R.T. -0.01 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Instrument :

MSVOA_Y

ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion:105 Resp: 49367

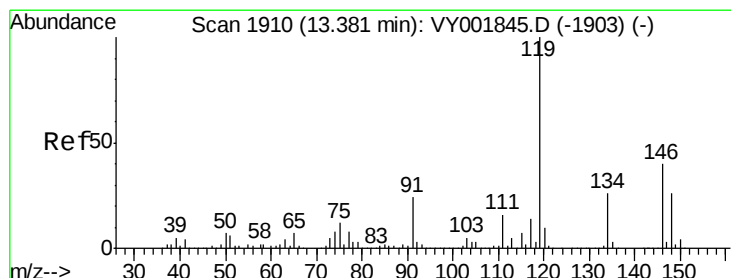
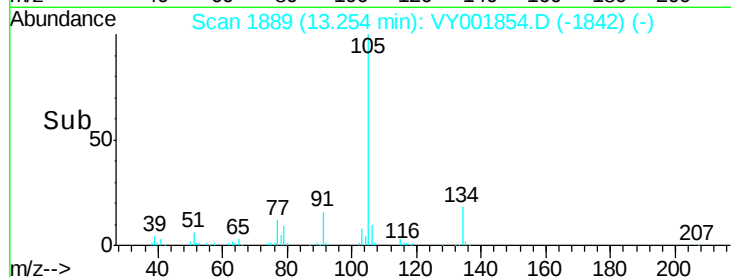
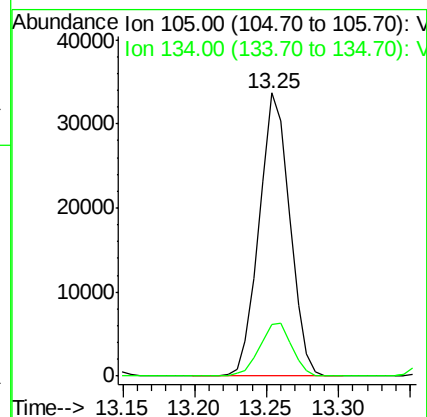
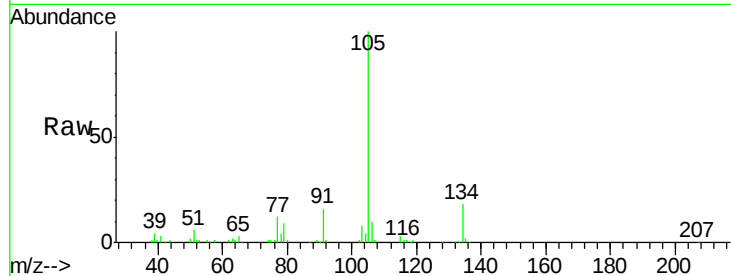
Ion Ratio Lower Upper

105 100

134 19.5 9.7 29.1

Manual Integrations
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3/5/2020 1:37:27 PM



#86

p-Isopropyltoluene

Concen: 5.076 ug/l

RT: 13.37 min Scan# 1908

Delta R.T. -0.01 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

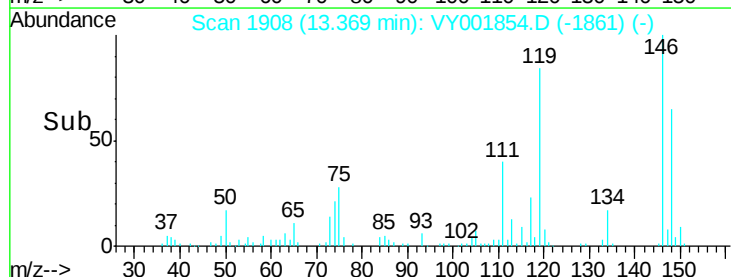
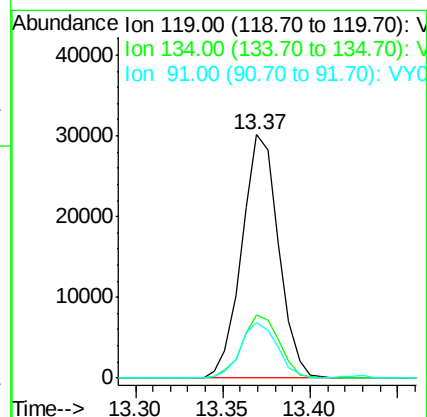
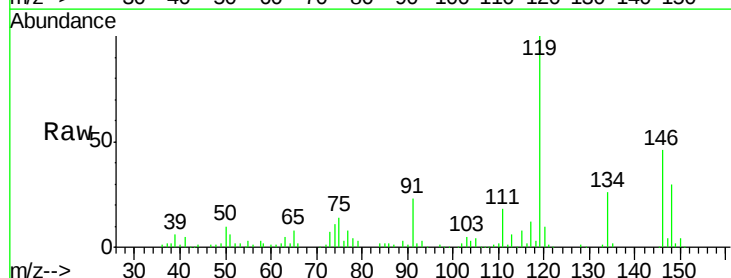
Tgt Ion:119 Resp: 44035

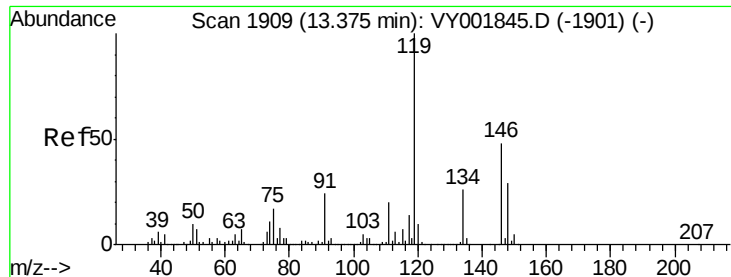
Ion Ratio Lower Upper

119 100

134 26.2 13.1 39.3

91 23.0 11.9 35.7





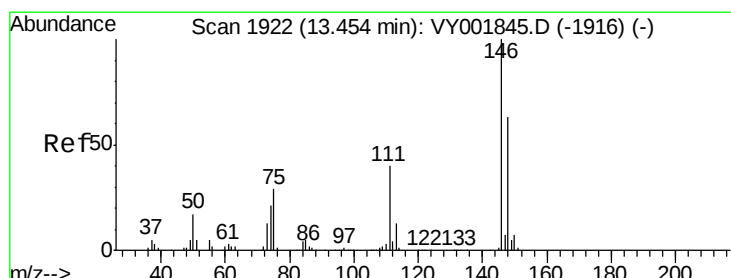
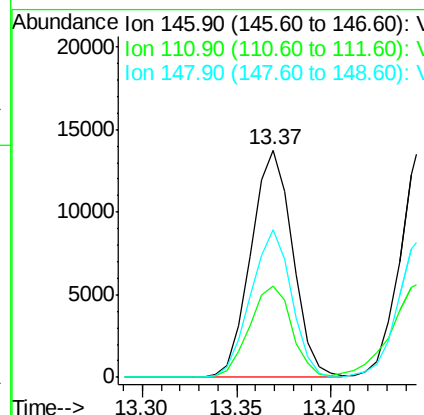
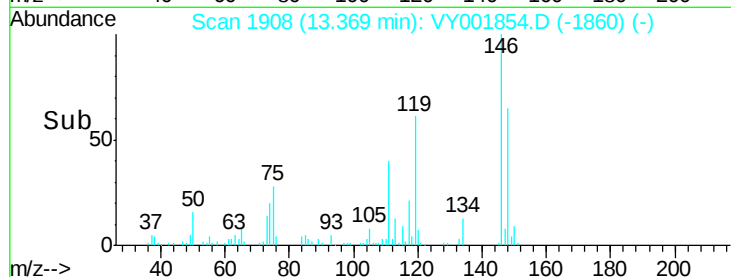
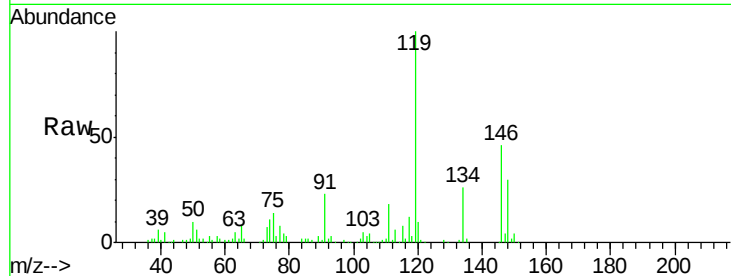
#87
 1,3-Dichlorobenzene
 Concen: 5.089 ug/l
 RT: 13.37 min Scan# 1908
 Delta R.T. -0.01 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.9	20.8	62.5
148	63.3	31.4	94.0

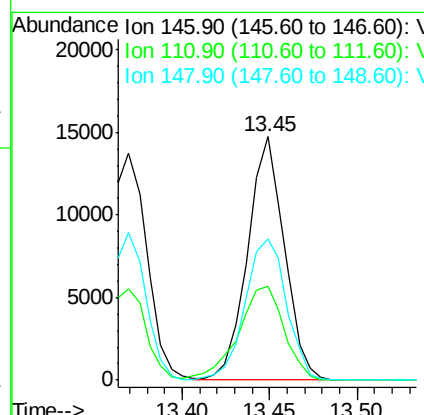
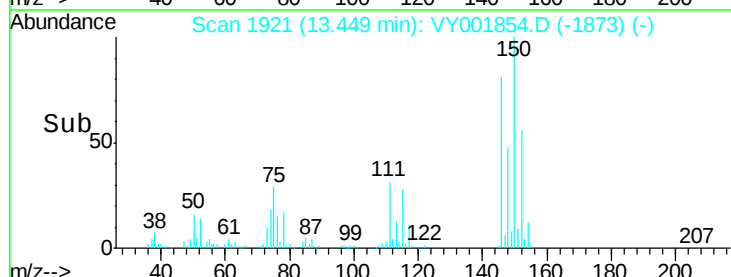
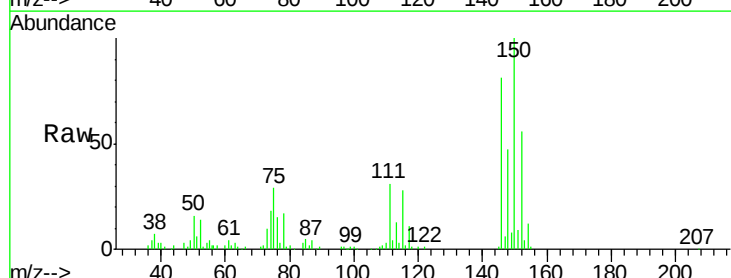
Manual Integrations
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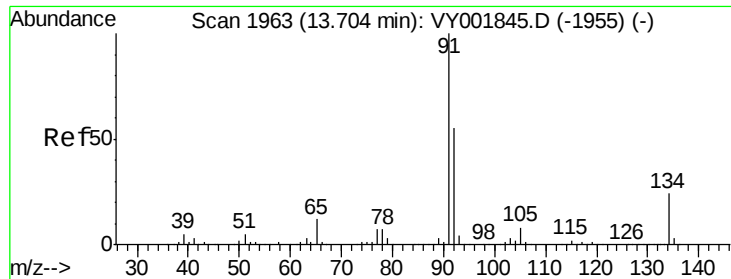
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 3/5/2020 1:37:27 PM



#88
 1,4-Dichlorobenzene
 Concen: 5.128 ug/l
 RT: 13.45 min Scan# 1921
 Delta R.T. -0.01 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.9	20.0	60.0
148	65.3	31.5	94.5





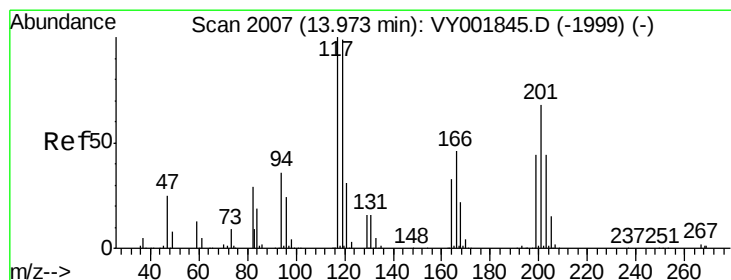
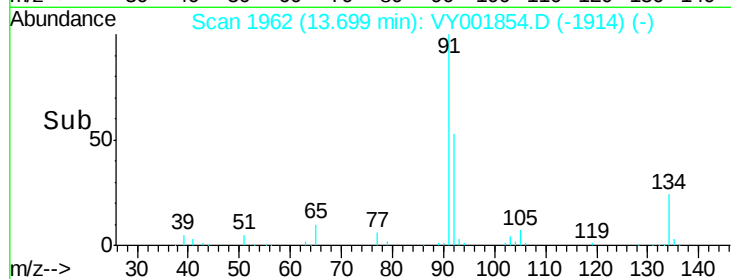
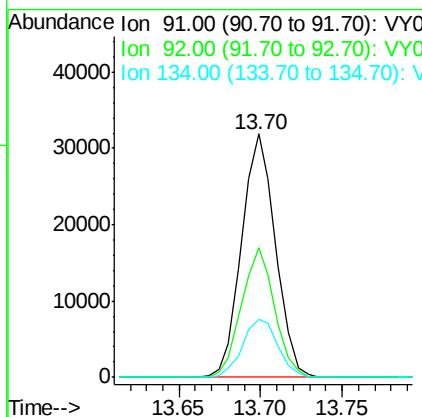
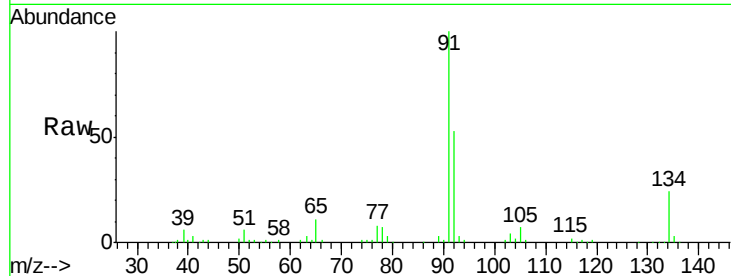
#89
n-Butylbenzene
Concen: 5.114 ug/l
RT: 13.70 min Scan# 1962
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.0	27.5	82.4
134	25.2	12.5	37.5

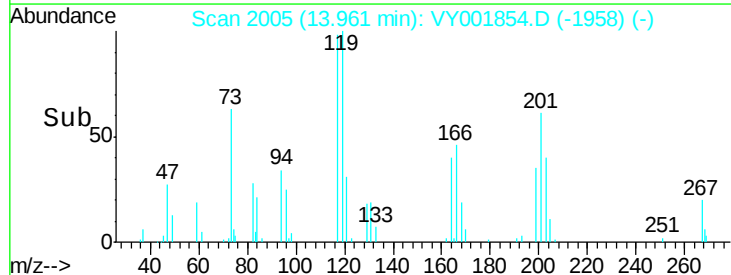
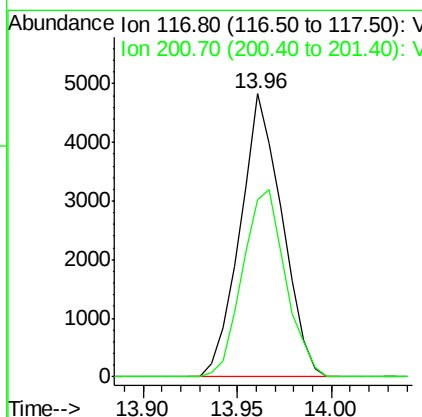
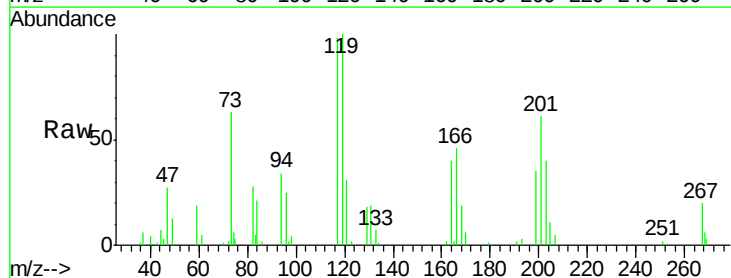
Manual Integrations
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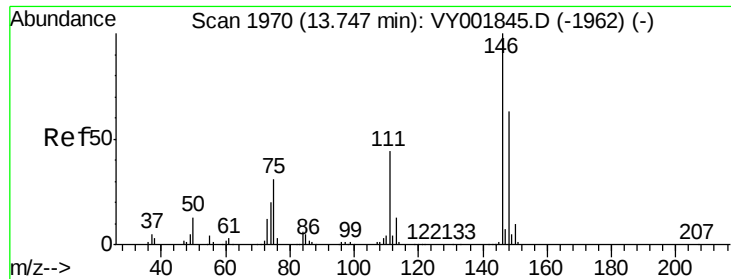
MMDadoda
3/5/2020 1:37:27 PM



#90
Hexachloroethane
Concen: 4.555 ug/l
RT: 13.96 min Scan# 2005
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
117	100		
201	68.0	32.5	97.5





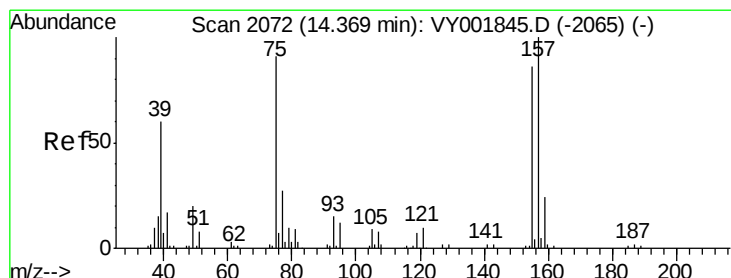
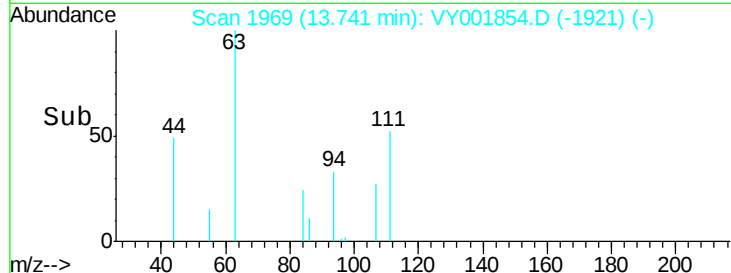
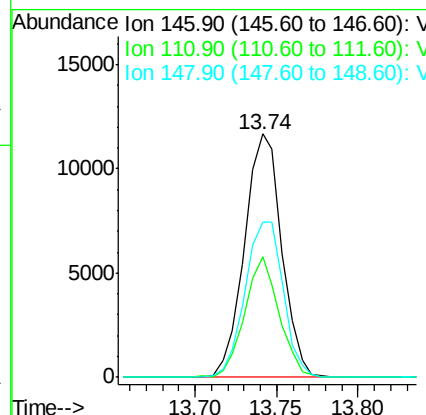
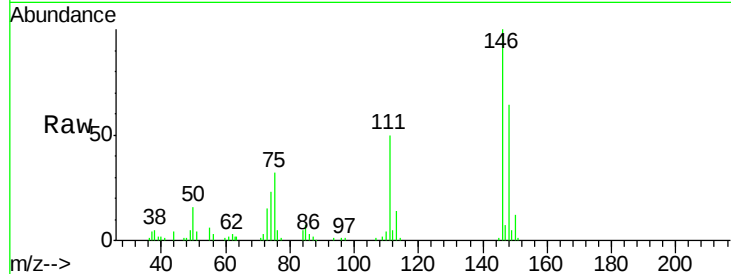
#91
 1,2-Dichlorobenzene
 Concen: 4.939 ug/l
 RT: 13.74 min Scan# 1969
 Delta R.T. -0.01 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Instrument :
 MSVOA_Y
 ClientSampleId :
 LOQ-SOIL-02-QT1-2020

Tot Ion:	146	Resp:	18588
Ion Ratio	Lower	Upper	
146	100		
111	45.7	21.5	64.5
148	65.6	32.0	96.0

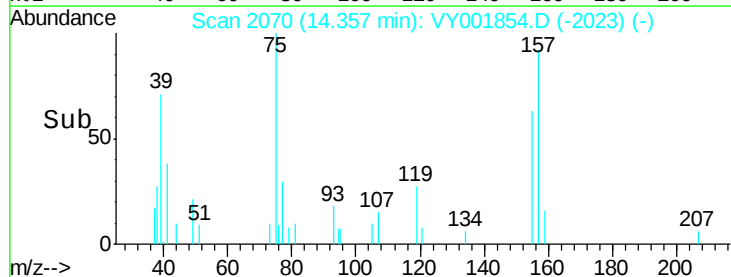
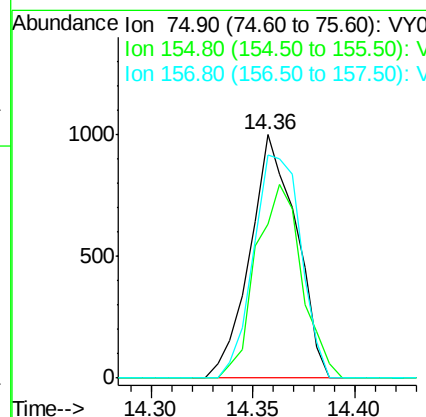
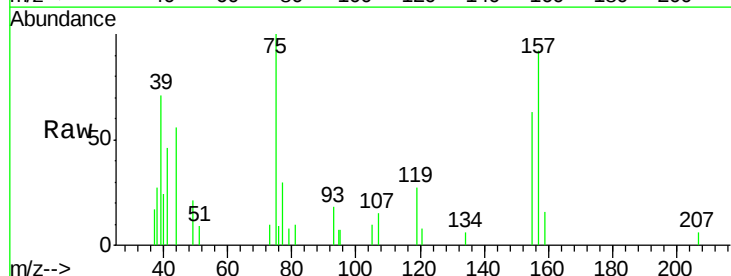
Manual Integrations
 APPROVED

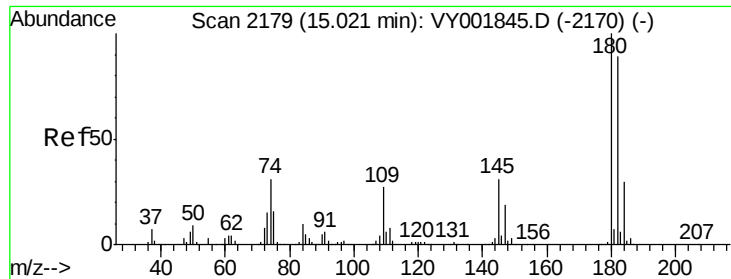
MMDadoda
 3/5/2020 1:37:27 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.688 ug/l
 RT: 14.36 min Scan# 2070
 Delta R.T. -0.01 min
 Lab File: VY001854.D
 Acq: 04 Mar 2020 15:28

Tgt Ion:	75	Resp:	1574
Ion Ratio	Lower	Upper	
75	100		
155	78.4	42.9	128.7
157	93.8	53.1	159.4





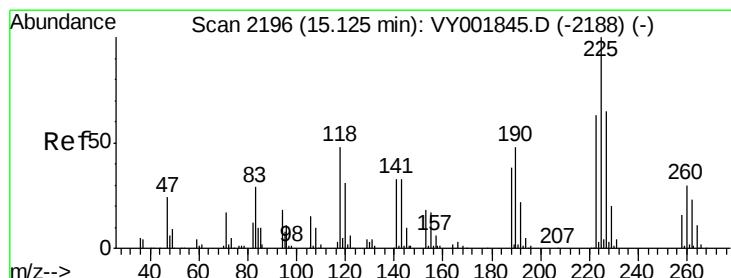
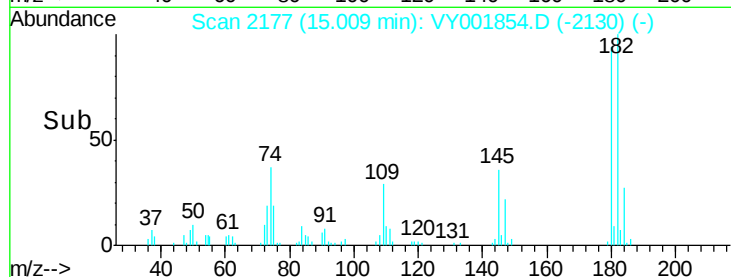
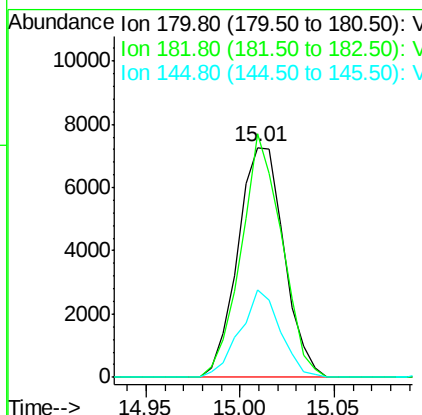
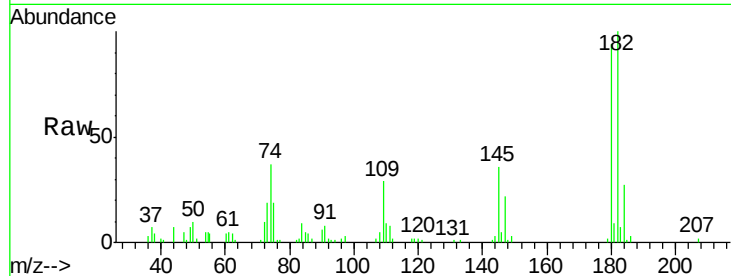
#93
1,2,4-Trichlorobenzene
Concen: 5.071 ug/l
RT: 15.01 min Scan# 2177
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Instrument :
MSVOA_Y
ClientSampleId :
LOQ-SOIL-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.2	46.1	138.3
145	33.4	15.6	46.8

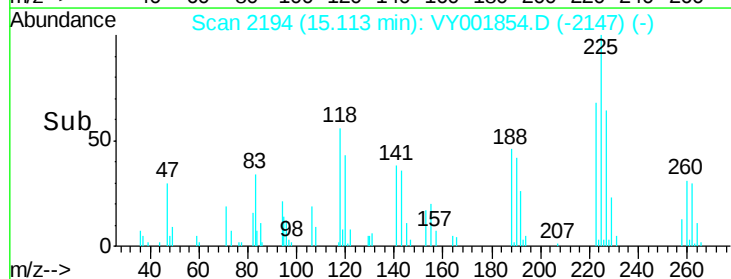
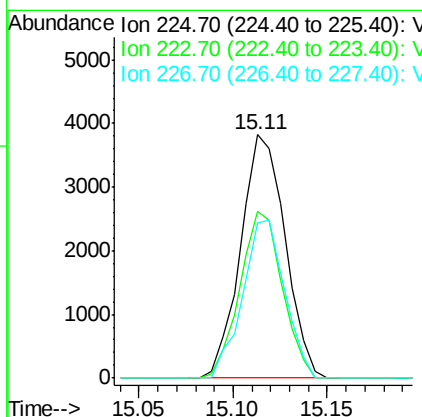
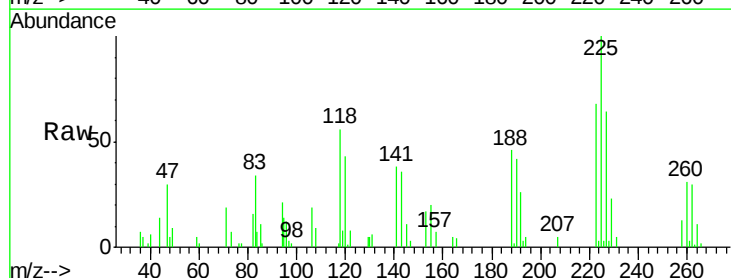
Manual Integrations
APPROVED

MMDadoda
3/5/2020 1:37:27 PM



#94
Hexachlorobutadiene
Concen: 5.257 ug/l
RT: 15.11 min Scan# 2194
Delta R.T. -0.01 min
Lab File: VY001854.D
Acq: 04 Mar 2020 15:28

Tgt Ion	Ratio	Lower	Upper
225	100		
223	65.0	31.5	94.5
227	61.2	31.9	95.5





#95

Naphthalene

Concen: 4.842 ug/l

RT: 15.24 min Scan# 2215

Delta R.T. -0.01 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Instrument :

MSVOA_Y

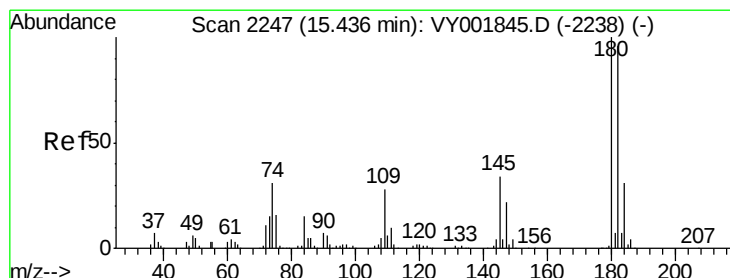
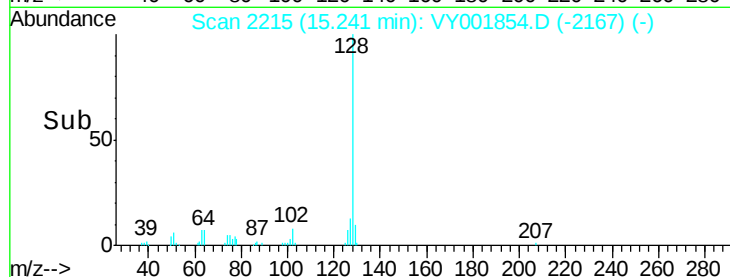
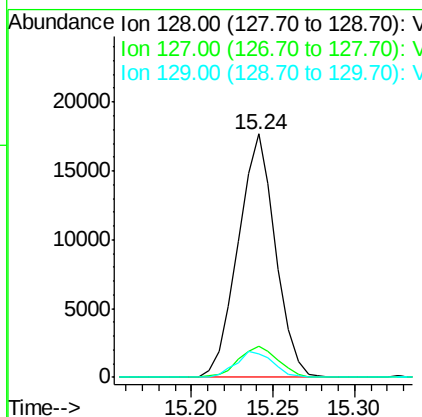
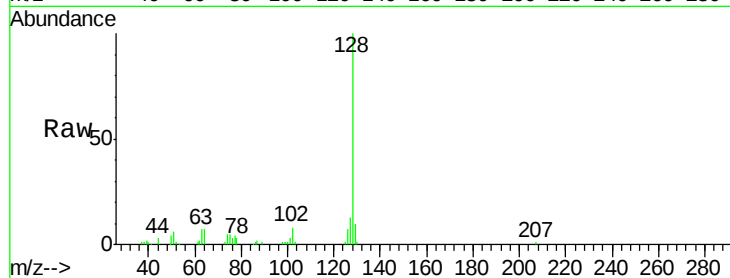
ClientSampleId :

LOQ-SOIL-02-QT1-2020

Tot Ion:	128	Resp:	28031
Ion Ratio	Lower	Upper	
128	100		
127	13.5	10.1	15.1
129	10.5	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
3/5/2020 1:37:27 PM



#96

1,2,3-Trichlorobenzene

Concen: 5.262 ug/l

RT: 15.43 min Scan# 2246

Delta R.T. -0.01 min

Lab File: VY001854.D

Acq: 04 Mar 2020 15:28

Tgt Ion:	180	Resp:	11314
Ion Ratio	Lower	Upper	
180	100		
182	91.8	47.6	142.9
145	35.2	16.8	50.3

